WORTH PROPERTY
LABORATORY DATA SHEETS AND CHAIN OF CUSTODY RECORDS

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: ECS

Project Name: Wolth Property

Sample Information and Analytical Results	
Sample Identification	WS-1-5
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	10/04/05
Date Received	10/06/05
Date Extracted	10/04/05
Date Analyzed	10/11/05
Dry Weight	65
Dilution Factor	1
C_5-C_8 Aliphatics**	< 10 (mg/Kg)
C_9-C_{12} Aliphatics**	61 (mg/Kg)
C_9-C_{10} Aromatics**	81 (mg/Kg)
Surrogate % Recovery - PID	230***
Surrogate % Recovery - FID	210***

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

***= High surrogate recovery due to matrix interference

Lab Info: g161-2180-1d

Reviewed By:

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: ECS

Project Name: Wolth Property

Sample Information and Analytical Results	
Sample Identification	WS-1-5
Sample Matrix	Soil
Date Collected	10/04/05
Date Received	10/06/05
Date Extracted	10/07/05
Date Analyzed	10/17/05
Dry Weight	65.1
Dilution Factor	2:1
C_9-C_{18} Aliphatics*	2200 (mg/Kg)
C_{19}-C_{36} Aliphatics*	160 (mg/Kg)
C_{11}-C_{22} Aromatics*	620 (mg/Kg)
Aliphatic Surrogate % Recovery	100
Aromatic Surrogate % Recovery	72
Fractionation Surrogate 1 % Recovery	47

Comments:

* = Excludes any surrogates or internal standards

Lab Info: G161-2180-1I

Reviewed By: ___

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: WS-1-5
Client Project ID: Wolth Property
Lab Sample ID G161-2180-1A
Lab Project ID: G161-2180
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 10-04-2005 09:42
Date Received: 10/6/2005
Matrix: Soil
%Solids: 65.1

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	0.0644	1	10/13/2005
Benzene	BQL	0.00644	1	10/13/2005
Bromobenzene	BQL	0.00644	1	10/13/2005
Bromochloromethane	BQL	0.00644	1	10/13/2005
Bromodichloromethane	BQL	0.00644	1	10/13/2005
Bromoform	BQL	0.00644	1	10/13/2005
Bromomethane	BQL	0.00644	1	10/13/2005
2-Butanone	BQL	0.0322	1	10/13/2005
n-Butylbenzene	**0.0236**	0.00644	1	10/13/2005
sec-Butylbenzene	**0.0155**	0.00644	1	10/13/2005
tert-Butylbenzene	BQL	0.00644	1	10/13/2005
Carbon disulfide	BQL	0.00644	1	10/13/2005
Carbon tetrachloride	BQL	0.00644	1	10/13/2005
Chlorobenzene	BQL	0.00644	1	10/13/2005
Chloroethane	BQL	0.00644	1	10/13/2005
Chloroform	BQL	0.00644	1	10/13/2005
Chloromethane	BQL	0.00644	1	10/13/2005
2-Chlorotoluene	BQL	0.00644	1	10/13/2005
4-Chlorotoluene	BQL	0.00644	1	10/13/2005
Dibromochloromethane	BQL	0.00644	1	10/13/2005
1,2-Dibromo-3-chloropropane	BQL	0.00644	1	10/13/2005
Dibromomethane	BQL	0.00644	1	10/13/2005
1,2-Dibromoethane (EDB)	BQL	0.00644	1	10/13/2005
1,2-Dichlorobenzene	BQL	0.00644	1	10/13/2005
1,3-Dichlorobenzene	BQL	0.00644	1	10/13/2005
1,4-Dichlorobenzene	BQL	0.00644	1	10/13/2005
trans-1,4-Dichloro-2-butene	BQL	0.00644	1	10/13/2005
1,1-Dichloroethane	BQL	0.00644	1	10/13/2005
1,1-Dichloroethene	BQL	0.00644	1	10/13/2005
1,2-Dichloroethane	BQL	0.00644	1	10/13/2005
cis-1,2-Dichloroethene	BQL	0.00644	1	10/13/2005
trans-1,2-dichloroethene	BQL	0.00644	1	10/13/2005
1,2-Dichloropropane	BQL	0.00644	1	10/13/2005
1,3-Dichloropropane	BQL	0.00644	1	10/13/2005
2,2-Dichloropropane	BQL	0.00644	1	10/13/2005
1,1-Dichloropropene	BQL	0.00644	1	10/13/2005
cis-1,3-Dichloropropene	BQL	0.00644	1	10/13/2005
trans-1,3-Dichloropropene	BQL	0.00644	1	10/13/2005
Dichlorodifluoromethane	BQL	0.00644	1	10/13/2005
Diisopropyl ether (DIPE)	BQL	0.00644	1	10/13/2005
Ethylbenzene	BQL	0.00644	1	10/13/2005
Hexachlorobutadiene	BQL	0.00644	1	10/13/2005
2-Hexanone	BQL	0.00644	1	10/13/2005
Iodomethane	BQL	0.00644	1	10/13/2005

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: WS-1-5
Client Project ID: Wolth Property
Lab Sample ID G161-2180-1A
Lab Project ID: G161-2180
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 10-04-2005 09:42
Date Received: 10/6/2005
Matrix: Soil
%Solids: 65.1

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	0.00644	1	10/13/2005
4-Isopropyltoluene	BQL	0.00644	1	10/13/2005
Methylene chloride	BQL	0.0257	1	10/13/2005
4-Methyl-2-pentanone	BQL	0.00644	1	10/13/2005
Methyl-tert-butyl ether (MTBE)	BQL	0.00644	1	10/13/2005
Naphthalene	**0.167**	0.00644	1	10/13/2005
n-Propyl benzene	BQL	0.00644	1	10/13/2005
Styrene	BQL	0.00644	1	10/13/2005
1,1,1,2-Tetrachloroethane	BQL	0.00644	1	10/13/2005
1,1,2,2-Tetrachloroethane	BQL	0.00644	1	10/13/2005
Tetrachloroethene	BQL	0.00644	1	10/13/2005
Toluene	BQL	0.00644	1	10/13/2005
1,2,3-Trichlorobenzene	BQL	0.00644	1	10/13/2005
1,2,4-Trichlorobenzene	BQL	0.00644	1	10/13/2005
Trichloroethene	BQL	0.00644	1	10/13/2005
1,1,1-Trichloroethane	BQL	0.00644	1	10/13/2005
1,1,2-Trichloroethane	BQL	0.00644	1	10/13/2005
Trichlorofluoromethane	BQL	0.00644	1	10/13/2005
1,2,3-Trichloropropane	BQL	0.00644	1	10/13/2005
1,2,4-Trimethylbenzene	BQL	0.00644	1	10/13/2005
1,3,5-Trimethylbenzene	BQL	0.00644	1	10/13/2005
Vinyl chloride	BQL	0.00644	1	10/13/2005
m-,p-Xylene	BQL	0.0129	1	10/13/2005
o-Xylene	BQL	0.00644	1	10/13/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.05	0.055	110
1,2-Dichloroethane-d4	0.05	0.0544	109
Toluene-d8	0.05	0.0549	110

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: [illegible]

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: WS-1-5
Client Project ID: Wolth Property
Lab Sample ID: G161-2180-1H
Lab Project ID: G161-2180
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 10/4/2005 9:42
Date Received: 10/6/2005
Date Extracted: 10/7/2005
Matrix: Soil
% Solids: 65.07

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
Acenaphthene	**1.34**	0.475	1	10/10/2005
Acenaphthylene	BQL	0.475	1	10/10/2005
Anthracene	BQL	0.475	1	10/10/2005
Benzo[a]anthracene	BQL	0.475	1	10/10/2005
Benzo[a]pyrene	BQL	0.475	1	10/10/2005
Benzo[b]fluoranthene	BQL	0.475	1	10/10/2005
Benzo[g,h,i]perylene	BQL	0.475	1	10/10/2005
Benzo[k]fluoranthene	BQL	0.475	1	10/10/2005
Bis(2-chloroethoxy)methane	BQL	0.475	1	10/10/2005
Bis(2-chloroethyl)ether	BQL	0.475	1	10/10/2005
Bis(2-chloroisopropyl)ether	BQL	0.475	1	10/10/2005
Bis(2-ethylhexyl)phthalate	BQL	0.475	1	10/10/2005
4-bromophenyl phenyl ether	BQL	0.475	1	10/10/2005
Butylbenzylphthalate	BQL	0.475	1	10/10/2005
2-Chloronaphthalene	BQL	0.475	1	10/10/2005
4-Chloroaniline	BQL	2.38	1	10/10/2005
4-Chlorophenyl phenyl ether	BQL	0.475	1	10/10/2005
Chrysene	BQL	0.475	1	10/10/2005
Dibenzo[a,h]anthracene	BQL	0.475	1	10/10/2005
Dibenzofuran	**1.05**	0.475	1	10/10/2005
Di-n-Butylphthalate	BQL	0.475	1	10/10/2005
1,2-Dichlorobenzene	BQL	0.475	1	10/10/2005
1,3-Dichlorobenzene	BQL	0.475	1	10/10/2005
1,4-Dichlorobenzene	BQL	0.475	1	10/10/2005
3,3'-Dichlorobenzidine	BQL	0.950	1	10/10/2005
Diethylphthalate	BQL	0.475	1	10/10/2005
Dimethylphthalate	BQL	0.475	1	10/10/2005
Di-n-octylphthalate	BQL	0.475	1	10/10/2005
2,4-Dinitrotoluene	BQL	0.475	1	10/10/2005
2,6-Dinitrotoluene	BQL	0.475	1	10/10/2005
Diphenylamine *	BQL	0.475	1	10/10/2005
Fluoranthene	BQL	0.475	1	10/10/2005
Fluorene	**2.01**	0.475	1	10/10/2005
Hexachlorobenzene	BQL	0.475	1	10/10/2005
Hexachlorobutadiene	BQL	0.475	1	10/10/2005
Hexachlorocyclopentadiene	BQL	0.950	1	10/10/2005
Hexachloroethane	BQL	0.475	1	10/10/2005
Indeno(1,2,3-c,d)pyrene	BQL	0.475	1	10/10/2005
Isophorone	BQL	0.475	1	10/10/2005
2-Methylnaphthalene	**11.5**	0.475	1	10/10/2005
Naphthalene	**1.27**	0.475	1	10/10/2005
2-Nitroaniline	BQL	0.475	1	10/10/2005

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: WS-1-5
Client Project ID: Wolth Property
Lab Sample ID: G161-2180-1H
Lab Project ID: G161-2180
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 10/4/2005 9:42
Date Received: 10/6/2005
Date Extracted: 10/7/2005
Matrix: Soil
% Solids: 65.07

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
3-Nitroaniline	BQL	2.38	1	10/10/2005
4-Nitroaniline	BQL	2.38	1	10/10/2005
Nitrobenzene	BQL	0.475	1	10/10/2005
N-Nitrosodi-n-propylamine	BQL	0.475	1	10/10/2005
Phenanthrene	**7.28**	0.475	1	10/10/2005
Pyrene	BQL	0.475	1	10/10/2005
1,2,4-Trichlorobenzene	BQL	0.475	1	10/10/2005

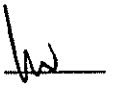
	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	10.2	102
Nitrobenzene-d5	10	10.9	109
4-Terphenyl-d14	10	10.3	103

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By: 

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: ECS

Project Name: Wolth Property

Sample Information and Analytical Results	
Sample Identification	WS-2-5
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	10/04/05
Date Received	10/06/05
Date Extracted	10/04/05
Date Analyzed	10/11/05
Dry Weight	87
Dilution Factor	1
C_5-C_8 Aliphatics**	< 10 (mg/Kg)
C_9-C_{12} Aliphatics**	< 10 (mg/Kg)
C_9-C_{10} Aromatics**	< 10 (mg/Kg)
Surrogate % Recovery - PID	100
Surrogate % Recovery - FID	100

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g161-2180-2d

Reviewed By: [illegible]

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: ECS

Project Name: Wolth Property

Sample Information and Analytical Results	
Sample Identification	WS-2-5
Sample Matrix	Soil
Date Collected	10/04/05
Date Received	10/06/05
Date Extracted	10/07/05
Date Analyzed	10/10/05
Dry Weight	87.1
Dilution Factor	1
C_9-C_{18} Aliphatics*	< 10 (mg/Kg)
C_{19}-C_{36} Aliphatics*	< 10 (mg/Kg)
C_{11}-C_{22} Aromatics*	< 10 (mg/Kg)
Aliphatic Surrogate % Recovery	100
Aromatic Surrogate % Recovery	99

Comments:

* = Excludes any surrogates or internal standards.
Sample did not require fractionation

Lab info: G161-2180-2I

Reviewed By:

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: WS-2-5
Client Project ID: Wolth Property
Lab Sample ID G161-2180-2A
Lab Project ID: G161-2180
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 10-04-2005 10:03
Date Received: 10/6/2005
Matrix: Soil
%Solids: 87.1

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	0.0423	1	10/13/2005
Benzene	BQL	0.00423	1	10/13/2005
Bromobenzene	BQL	0.00423	1	10/13/2005
Bromochloromethane	BQL	0.00423	1	10/13/2005
Bromodichloromethane	BQL	0.00423	1	10/13/2005
Bromoform	BQL	0.00423	1	10/13/2005
Bromomethane	BQL	0.00423	1	10/13/2005
2-Butanone	BQL	0.0212	1	10/13/2005
n-Butylbenzene	BQL	0.00423	1	10/13/2005
sec-Butylbenzene	BQL	0.00423	1	10/13/2005
tert-Butylbenzene	BQL	0.00423	1	10/13/2005
Carbon disulfide	BQL	0.00423	1	10/13/2005
Carbon tetrachloride	BQL	0.00423	1	10/13/2005
Chlorobenzene	BQL	0.00423	1	10/13/2005
Chloroethane	BQL	0.00423	1	10/13/2005
Chloroform	BQL	0.00423	1	10/13/2005
Chloromethane	BQL	0.00423	1	10/13/2005
2-Chlorotoluene	BQL	0.00423	1	10/13/2005
4-Chlorotoluene	BQL	0.00423	1	10/13/2005
Dibromochloromethane	BQL	0.00423	1	10/13/2005
1,2-Dibromo-3-chloropropane	BQL	0.00423	1	10/13/2005
Dibromomethane	BQL	0.00423	1	10/13/2005
1,2-Dibromoethane (EDB)	BQL	0.00423	1	10/13/2005
1,2-Dichlorobenzene	BQL	0.00423	1	10/13/2005
1,3-Dichlorobenzene	BQL	0.00423	1	10/13/2005
1,4-Dichlorobenzene	BQL	0.00423	1	10/13/2005
trans-1,4-Dichloro-2-butene	BQL	0.00423	1	10/13/2005
1,1-Dichloroethane	BQL	0.00423	1	10/13/2005
1,1-Dichloroethene	BQL	0.00423	1	10/13/2005
1,2-Dichloroethane	BQL	0.00423	1	10/13/2005
cis-1,2-Dichloroethene	BQL	0.00423	1	10/13/2005
trans-1,2-dichloroethene	BQL	0.00423	1	10/13/2005
1,2-Dichloropropane	BQL	0.00423	1	10/13/2005
1,3-Dichloropropane	BQL	0.00423	1	10/13/2005
2,2-Dichloropropane	BQL	0.00423	1	10/13/2005
1,1-Dichloropropene	BQL	0.00423	1	10/13/2005
cis-1,3-Dichloropropene	BQL	0.00423	1	10/13/2005
trans-1,3-Dichloropropene	BQL	0.00423	1	10/13/2005
Dichlorodifluoromethane	BQL	0.00423	1	10/13/2005
Diisopropyl ether (DIPE)	BQL	0.00423	1	10/13/2005
Ethylbenzene	BQL	0.00423	1	10/13/2005
Hexachlorobutadiene	BQL	0.00423	1	10/13/2005
2-Hexanone	BQL	0.00423	1	10/13/2005
Iodomethane	BQL	0.00423	1	10/13/2005

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: WS-2-5
Client Project ID: Wolth Property
Lab Sample ID G161-2180-2A
Lab Project ID: G161-2180
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 10-04-2005 10:03
Date Received: 10/6/2005
Matrix: Soil
%Solids: 87.1

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	0.00423	1	10/13/2005
4-Isopropyltoluene	BQL	0.00423	1	10/13/2005
Methylene chloride	BQL	0.0169	1	10/13/2005
4-Methyl-2-pentanone	BQL	0.00423	1	10/13/2005
Methyl-tert-butyl ether (MTBE)	BQL	0.00423	1	10/13/2005
Naphthalene	BQL	0.00423	1	10/13/2005
n-Propyl benzene	BQL	0.00423	1	10/13/2005
Styrene	BQL	0.00423	1	10/13/2005
1,1,1,2-Tetrachloroethane	BQL	0.00423	1	10/13/2005
1,1,2,2-Tetrachloroethane	BQL	0.00423	1	10/13/2005
Tetrachloroethene	BQL	0.00423	1	10/13/2005
Toluene	BQL	0.00423	1	10/13/2005
1,2,3-Trichlorobenzene	BQL	0.00423	1	10/13/2005
1,2,4-Trichlorobenzene	BQL	0.00423	1	10/13/2005
Trichloroethene	BQL	0.00423	1	10/13/2005
1,1,1-Trichloroethane	BQL	0.00423	1	10/13/2005
1,1,2-Trichloroethane	BQL	0.00423	1	10/13/2005
Trichlorofluoromethane	BQL	0.00423	1	10/13/2005
1,2,3-Trichloropropane	BQL	0.00423	1	10/13/2005
1,2,4-Trimethylbenzene	BQL	0.00423	1	10/13/2005
1,3,5-Trimethylbenzene	BQL	0.00423	1	10/13/2005
Vinyl chloride	BQL	0.00423	1	10/13/2005
m-,p-Xylene	BQL	0.00847	1	10/13/2005
o-Xylene	BQL	0.00423	1	10/13/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.05	0.0514	103
1,2-Dichloroethane-d4	0.05	0.0716	143
Toluene-d8	0.05	0.0508	102

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By:

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: WS-2-5
Client Project ID: Wolth Property
Lab Sample ID: G161-2180-2H
Lab Project ID: G161-2180
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 10/4/2005 10:03
Date Received: 10/6/2005
Date Extracted: 10/7/2005
Matrix: Soil
% Solids: 87.1

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	0.358	1	10/10/2005
Acenaphthylene	BQL	0.358	1	10/10/2005
Anthracene	BQL	0.358	1	10/10/2005
Benzo[a]anthracene	BQL	0.358	1	10/10/2005
Benzo[a]pyrene	BQL	0.358	1	10/10/2005
Benzo[b]fluoranthene	BQL	0.358	1	10/10/2005
Benzo[g,h,i]perylene	BQL	0.358	1	10/10/2005
Benzo[k]fluoranthene	BQL	0.358	1	10/10/2005
Bis(2-chloroethoxy)methane	BQL	0.358	1	10/10/2005
Bis(2-chloroethyl)ether	BQL	0.358	1	10/10/2005
Bis(2-chloroisopropyl)ether	BQL	0.358	1	10/10/2005
Bis(2-ethylhexyl)phthalate	BQL	0.358	1	10/10/2005
4-bromophenyl phenyl ether	BQL	0.358	1	10/10/2005
Butylbenzylphthalate	BQL	0.358	1	10/10/2005
2-Chloronaphthalene	BQL	0.358	1	10/10/2005
4-Chloroaniline	BQL	1.79	1	10/10/2005
4-Chlorophenyl phenyl ether	BQL	0.358	1	10/10/2005
Chrysene	BQL	0.358	1	10/10/2005
Dibenzo[a,h]anthracene	BQL	0.358	1	10/10/2005
Dibenzofuran	BQL	0.358	1	10/10/2005
Di-n-Butylphthalate	BQL	0.358	1	10/10/2005
1,2-Dichlorobenzene	BQL	0.358	1	10/10/2005
1,3-Dichlorobenzene	BQL	0.358	1	10/10/2005
1,4-Dichlorobenzene	BQL	0.358	1	10/10/2005
3,3'-Dichlorobenzidine	BQL	0.716	1	10/10/2005
Diethylphthalate	BQL	0.358	1	10/10/2005
Dimethylphthalate	BQL	0.358	1	10/10/2005
Di-n-octylphthalate	BQL	0.358	1	10/10/2005
2,4-Dinitrotoluene	BQL	0.358	1	10/10/2005
2,6-Dinitrotoluene	BQL	0.358	1	10/10/2005
Diphenylamine *	BQL	0.358	1	10/10/2005
Fluoranthene	BQL	0.358	1	10/10/2005
Fluorene	BQL	0.358	1	10/10/2005
Hexachlorobenzene	BQL	0.358	1	10/10/2005
Hexachlorobutadiene	BQL	0.358	1	10/10/2005
Hexachlorocyclopentadiene	BQL	0.716	1	10/10/2005
Hexachloroethane	BQL	0.358	1	10/10/2005
Indeno(1,2,3-c,d)pyrene	BQL	0.358	1	10/10/2005
Isophorone	BQL	0.358	1	10/10/2005
2-Methylnaphthalene	BQL	0.358	1	10/10/2005
Naphthalene	BQL	0.358	1	10/10/2005
2-Nitroaniline	BQL	0.358	1	10/10/2005

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: WS-2-5
Client Project ID: Wolth Property
Lab Sample ID: G161-2180-2H
Lab Project ID: G161-2180
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 10/4/2005 10:03
Date Received: 10/6/2005
Date Extracted: 10/7/2005
Matrix: Soil
% Solids: 87.1

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
3-Nitroaniline	BQL	1.79	1	10/10/2005
4-Nitroaniline	BQL	1.79	1	10/10/2005
Nitrobenzene	BQL	0.358	1	10/10/2005
N-Nitrosodi-n-propylamine	BQL	0.358	1	10/10/2005
Phenanthrene	BQL	0.358	1	10/10/2005
Pyrene	BQL	0.358	1	10/10/2005
1,2,4-Trichlorobenzene	BQL	0.358	1	10/10/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	10	100
Nitrobenzene-d5	10	10	100
4-Terphenyl-d14	10	11.2	112

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By: [signature]

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: ECS

Project Name: Wolth Property

Sample Information and Analytical Results	
Sample Identification	WS-2-10
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	10/04/05
Date Received	10/06/05
Date Extracted	10/04/05
Date Analyzed	10/11/05
Dry Weight	72
Dilution Factor	1
C_5-C_8 Aliphatics**	< 10 (mg/Kg)
C_9-C_{12} Aliphatics**	< 10 (mg/Kg)
C_9-C_{10} Aromatics**	< 10 (mg/Kg)
Surrogate % Recovery - PID	100
Surrogate % Recovery - FID	110

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g161-2180-3d

Reviewed By: _____

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: ECS

Project Name: Wolth Property

Sample Information and Analytical Results	
Sample Identification	WS-2-10
Sample Matrix	Soil
Date Collected	10/04/05
Date Received	10/06/05
Date Extracted	10/07/05
Date Analyzed	10/10/05
Dry Weight	72.4
Dilution Factor	1
C_9-C_{18} Aliphatics*	< 10 (mg/Kg)
C_{19}-C_{36} Aliphatics*	< 10 (mg/Kg)
C_{11}-C_{22} Aromatics*	< 10 (mg/Kg)
Aliphatic Surrogate % Recovery	96
Aromatic Surrogate % Recovery	91

Comments:

* = Excludes any surrogates or internal standards.
Sample did not require fractionation.

Lab info: G161-2180-3I

Reviewed By:

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: WS-2-10
Client Project ID: Wolth Property
Lab Sample ID G161-2180-3A
Lab Project ID: G161-2180
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 10-04-2005 10:05
Date Received: 10/6/2005
Matrix: Soil
%Solids: 72.4

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	0.0529	1	10/13/2005
Benzene	BQL	0.00529	1	10/13/2005
Bromobenzene	BQL	0.00529	1	10/13/2005
Bromochloromethane	BQL	0.00529	1	10/13/2005
Bromodichloromethane	BQL	0.00529	1	10/13/2005
Bromoform	BQL	0.00529	1	10/13/2005
Bromomethane	BQL	0.00529	1	10/13/2005
2-Butanone	BQL	0.0265	1	10/13/2005
n-Butylbenzene	BQL	0.00529	1	10/13/2005
sec-Butylbenzene	BQL	0.00529	1	10/13/2005
tert-Butylbenzene	BQL	0.00529	1	10/13/2005
Carbon disulfide	BQL	0.00529	1	10/13/2005
Carbon tetrachloride	BQL	0.00529	1	10/13/2005
Chlorobenzene	BQL	0.00529	1	10/13/2005
Chloroethane	BQL	0.00529	1	10/13/2005
Chloroform	BQL	0.00529	1	10/13/2005
Chloromethane	BQL	0.00529	1	10/13/2005
2-Chlorotoluene	BQL	0.00529	1	10/13/2005
4-Chlorotoluene	BQL	0.00529	1	10/13/2005
Dibromochloromethane	BQL	0.00529	1	10/13/2005
1,2-Dibromo-3-chloropropane	BQL	0.00529	1	10/13/2005
Dibromomethane	BQL	0.00529	1	10/13/2005
1,2-Dibromoethane (EDB)	BQL	0.00529	1	10/13/2005
1,2-Dichlorobenzene	BQL	0.00529	1	10/13/2005
1,3-Dichlorobenzene	BQL	0.00529	1	10/13/2005
1,4-Dichlorobenzene	BQL	0.00529	1	10/13/2005
trans-1,4-Dichloro-2-butene	BQL	0.00529	1	10/13/2005
1,1-Dichloroethane	BQL	0.00529	1	10/13/2005
1,1-Dichloroethene	BQL	0.00529	1	10/13/2005
1,2-Dichloroethane	BQL	0.00529	1	10/13/2005
cis-1,2-Dichloroethene	BQL	0.00529	1	10/13/2005
trans-1,2-dichloroethene	BQL	0.00529	1	10/13/2005
1,2-Dichloropropane	BQL	0.00529	1	10/13/2005
1,3-Dichloropropane	BQL	0.00529	1	10/13/2005
2,2-Dichloropropane	BQL	0.00529	1	10/13/2005
1,1-Dichloropropene	BQL	0.00529	1	10/13/2005
cis-1,3-Dichloropropene	BQL	0.00529	1	10/13/2005
trans-1,3-Dichloropropene	BQL	0.00529	1	10/13/2005
Dichlorodifluoromethane	BQL	0.00529	1	10/13/2005
Diisopropyl ether (DIPE)	BQL	0.00529	1	10/13/2005
Ethylbenzene	BQL	0.00529	1	10/13/2005
Hexachlorobutadiene	BQL	0.00529	1	10/13/2005
2-Hexanone	BQL	0.00529	1	10/13/2005
Iodomethane	BQL	0.00529	1	10/13/2005

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: WS-2-10
Client Project ID: Wolth Property
Lab Sample ID G161-2180-3A
Lab Project ID: G161-2180
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 10-04-2005 10:05
Date Received: 10/6/2005
Matrix: Soil
%Solids: 72.4

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	0.00529	1	10/13/2005
4-Isopropyltoluene	BQL	0.00529	1	10/13/2005
Methylene chloride	BQL	0.0212	1	10/13/2005
4-Methyl-2-pentanone	BQL	0.00529	1	10/13/2005
Methyl-tert-butyl ether (MTBE)	BQL	0.00529	1	10/13/2005
Naphthalene	BQL	0.00529	1	10/13/2005
n-Propyl benzene	BQL	0.00529	1	10/13/2005
Styrene	BQL	0.00529	1	10/13/2005
1,1,1,2-Tetrachloroethane	BQL	0.00529	1	10/13/2005
1,1,2,2-Tetrachloroethane	BQL	0.00529	1	10/13/2005
Tetrachloroethene	BQL	0.00529	1	10/13/2005
Toluene	BQL	0.00529	1	10/13/2005
1,2,3-Trichlorobenzene	BQL	0.00529	1	10/13/2005
1,2,4-Trichlorobenzene	BQL	0.00529	1	10/13/2005
Trichloroethene	BQL	0.00529	1	10/13/2005
1,1,1-Trichloroethane	BQL	0.00529	1	10/13/2005
1,1,2-Trichloroethane	BQL	0.00529	1	10/13/2005
Trichlorofluoromethane	BQL	0.00529	1	10/13/2005
1,2,3-Trichloropropane	BQL	0.00529	1	10/13/2005
1,2,4-Trimethylbenzene	BQL	0.00529	1	10/13/2005
1,3,5-Trimethylbenzene	BQL	0.00529	1	10/13/2005
Vinyl chloride	BQL	0.00529	1	10/13/2005
m-,p-Xylene	BQL	0.0106	1	10/13/2005
o-Xylene	BQL	0.00529	1	10/13/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.05	0.0506	101
1,2-Dichloroethane-d4	0.05	0.0699	140
Toluene-d8	0.05	0.0502	100

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: WS-2-10
Client Project ID: Wolth Property
Lab Sample ID: G161-2180-3H
Lab Project ID: G161-2180
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 10/4/2005 10:05
Date Received: 10/6/2005
Date Extracted: 10/7/2005
Matrix: Soil
% Solids: 72.37

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	0.416	1	10/10/2005
Acenaphthylene	BQL	0.416	1	10/10/2005
Anthracene	BQL	0.416	1	10/10/2005
Benzo[a]anthracene	BQL	0.416	1	10/10/2005
Benzo[a]pyrene	BQL	0.416	1	10/10/2005
Benzo[b]fluoranthene	BQL	0.416	1	10/10/2005
Benzo[g,h,i]perylene	BQL	0.416	1	10/10/2005
Benzo[k]fluoranthene	BQL	0.416	1	10/10/2005
Bis(2-chloroethoxy)methane	BQL	0.416	1	10/10/2005
Bis(2-chloroethyl)ether	BQL	0.416	1	10/10/2005
Bis(2-chloroisopropyl)ether	BQL	0.416	1	10/10/2005
Bis(2-ethylhexyl)phthalate	BQL	0.416	1	10/10/2005
4-bromophenyl phenyl ether	BQL	0.416	1	10/10/2005
Butylbenzylphthalate	BQL	0.416	1	10/10/2005
2-Chloronaphthalene	BQL	0.416	1	10/10/2005
4-Chloroaniline	BQL	2.08	1	10/10/2005
4-Chlorophenyl phenyl ether	BQL	0.416	1	10/10/2005
Chrysene	BQL	0.416	1	10/10/2005
Dibenzo[a,h]anthracene	BQL	0.416	1	10/10/2005
Dibenzofuran	BQL	0.416	1	10/10/2005
Di-n-Butylphthalate	BQL	0.416	1	10/10/2005
1,2-Dichlorobenzene	BQL	0.416	1	10/10/2005
1,3-Dichlorobenzene	BQL	0.416	1	10/10/2005
1,4-Dichlorobenzene	BQL	0.416	1	10/10/2005
3,3'-Dichlorobenzidine	BQL	0.833	1	10/10/2005
Diethylphthalate	BQL	0.416	1	10/10/2005
Dimethylphthalate	BQL	0.416	1	10/10/2005
Di-n-octylphthalate	BQL	0.416	1	10/10/2005
2,4-Dinitrotoluene	BQL	0.416	1	10/10/2005
2,6-Dinitrotoluene	BQL	0.416	1	10/10/2005
Diphenylamine *	BQL	0.416	1	10/10/2005
Fluoranthene	BQL	0.416	1	10/10/2005
Fluorene	BQL	0.416	1	10/10/2005
Hexachlorobenzene	BQL	0.416	1	10/10/2005
Hexachlorobutadiene	BQL	0.416	1	10/10/2005
Hexachlorocyclopentadiene	BQL	0.833	1	10/10/2005
Hexachloroethane	BQL	0.416	1	10/10/2005
Indeno(1,2,3-c,d)pyrene	BQL	0.416	1	10/10/2005
Isophorone	BQL	0.416	1	10/10/2005
2-Methylnaphthalene	BQL	0.416	1	10/10/2005
Naphthalene	BQL	0.416	1	10/10/2005
2-Nitroaniline	BQL	0.416	1	10/10/2005

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: WS-2-10
Client Project ID: Wolth Property
Lab Sample ID: G161-2180-3H
Lab Project ID: G161-2180
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 10/4/2005 10:05
Date Received: 10/6/2005
Date Extracted: 10/7/2005
Matrix: Soil
% Solids: 72.37

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
3-Nitroaniline	BQL	2.08	1	10/10/2005
4-Nitroaniline	BQL	2.08	1	10/10/2005
Nitrobenzene	BQL	0.416	1	10/10/2005
N-Nitrosodi-n-propylamine	BQL	0.416	1	10/10/2005
Phenanthrene	BQL	0.416	1	10/10/2005
Pyrene	BQL	0.416	1	10/10/2005
1,2,4-Trichlorobenzene	BQL	0.416	1	10/10/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.1	81
Nitrobenzene-d5	10	7.4	74
4-Terphenyl-d14	10	11.1	111

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: Dup-1
Client Project ID: Wolth Property
Lab Sample ID G161-2180-4A
Lab Project ID: G161-2180
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 10-04-2005 00:00
Date Received: 10/6/05
Matrix: Soil
%Solids: NA

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	0.0330	1	10/13/05
Benzene	BQL	0.00330	1	10/13/05
Bromobenzene	BQL	0.00330	1	10/13/05
Bromochloromethane	BQL	0.00330	1	10/13/05
Bromodichloromethane	BQL	0.00330	1	10/13/05
Bromoform	BQL	0.00330	1	10/13/05
Bromomethane	BQL	0.00330	1	10/13/05
2-Butanone	BQL	0.0165	1	10/13/05
n-Butylbenzene	BQL	0.00330	1	10/13/05
sec-Butylbenzene	BQL	0.00330	1	10/13/05
tert-Butylbenzene	BQL	0.00330	1	10/13/05
Carbon disulfide	BQL	0.00330	1	10/13/05
Carbon tetrachloride	BQL	0.00330	1	10/13/05
Chlorobenzene	BQL	0.00330	1	10/13/05
Chloroethane	BQL	0.00330	1	10/13/05
Chloroform	BQL	0.00330	1	10/13/05
Chloromethane	BQL	0.00330	1	10/13/05
2-Chlorotoluene	BQL	0.00330	1	10/13/05
4-Chlorotoluene	BQL	0.00330	1	10/13/05
Dibromochloromethane	BQL	0.00330	1	10/13/05
1,2-Dibromo-3-chloropropane	BQL	0.00330	1	10/13/05
Dibromomethane	BQL	0.00330	1	10/13/05
1,2-Dibromoethane (EDB)	BQL	0.00330	1	10/13/05
1,2-Dichlorobenzene	BQL	0.00330	1	10/13/05
1,3-Dichlorobenzene	BQL	0.00330	1	10/13/05
1,4-Dichlorobenzene	BQL	0.00330	1	10/13/05
trans-1,4-Dichloro-2-butene	BQL	0.00330	1	10/13/05
1,1-Dichloroethane	BQL	0.00330	1	10/13/05
1,1-Dichloroethene	BQL	0.00330	1	10/13/05
1,2-Dichloroethane	BQL	0.00330	1	10/13/05
cis-1,2-Dichloroethene	BQL	0.00330	1	10/13/05
trans-1,2-dichloroethene	BQL	0.00330	1	10/13/05
1,2-Dichloropropane	BQL	0.00330	1	10/13/05
1,3-Dichloropropane	BQL	0.00330	1	10/13/05
2,2-Dichloropropane	BQL	0.00330	1	10/13/05
1,1-Dichloropropene	BQL	0.00330	1	10/13/05
cis-1,3-Dichloropropene	BQL	0.00330	1	10/13/05
trans-1,3-Dichloropropene	BQL	0.00330	1	10/13/05
Dichlorodifluoromethane	BQL	0.00330	1	10/13/05
Diisopropyl ether (DIPE)	BQL	0.00330	1	10/13/05
Ethylbenzene	BQL	0.00330	1	10/13/05
Hexachlorobutadiene	BQL	0.00330	1	10/13/05

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: Dup-1
Client Project ID: Wolth Property
Lab Sample ID G161-2180-4A
Lab Project ID: G161-2180
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 10-04-2005 00:00
Date Received: 10/6/05
Matrix: Soil
%Solids: NA

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
2-Hexanone	BQL	0.00330	1	10/13/05
Iodomethane	BQL	0.00330	1	10/13/05
Isopropylbenzene	BQL	0.00330	1	10/13/05
4-Isopropyltoluene	BQL	0.00330	1	10/13/05
Methylene chloride	BQL	0.0132	1	10/13/05
4-Methyl-2-pentanone	BQL	0.00330	1	10/13/05
Methyl-tert-butyl ether (MTBE)	BQL	0.00330	1	10/13/05
Naphthalene	BQL	0.00330	1	10/13/05
n-Propyl benzene	BQL	0.00330	1	10/13/05
Styrene	BQL	0.00330	1	10/13/05
1,1,1,2-Tetrachloroethane	BQL	0.00330	1	10/13/05
1,1,2,2-Tetrachloroethane	BQL	0.00330	1	10/13/05
Tetrachloroethene	BQL	0.00330	1	10/13/05
Toluene	BQL	0.00330	1	10/13/05
1,2,3-Trichlorobenzene	BQL	0.00330	1	10/13/05
1,2,4-Trichlorobenzene	BQL	0.00330	1	10/13/05
Trichloroethene	BQL	0.00330	1	10/13/05
1,1,1-Trichloroethane	BQL	0.00330	1	10/13/05
1,1,2-Trichloroethane	BQL	0.00330	1	10/13/05
Trichlorofluoromethane	BQL	0.00330	1	10/13/05
1,2,3-Trichloropropane	BQL	0.00330	1	10/13/05
1,2,4-Trimethylbenzene	BQL	0.00330	1	10/13/05
1,3,5-Trimethylbenzene	BQL	0.00330	1	10/13/05
Vinyl chloride	BQL	0.00330	1	10/13/05
m-,p-Xylene	BQL	0.00661	1	10/13/05
o-Xylene	BQL	0.00330	1	10/13/05

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.05	0.0507	101
1,2-Dichloroethane-d4	0.05	0.0721	144
Toluene-d8	0.05	0.05	100

Comments:
NA = Not Applicable. Results reported on a wet weight basis.
Flags:
BQL = Below Quantitation Limits.

Reviewed By:

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: ECS

Project Name: Wolth Property

Sample Information and Analytical Results	
Sample Identification	WWS-1
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	10/05/05
Date Received	10/06/05
Date Extracted	10/07/05
Date Analyzed	10/07/05
Dry Weight	
Dilution Factor	1
C_5-C_8 Aliphatics**	< 100 (µg/L)
C_9-C_{12} Aliphatics**	< 100 (µg/L)
C_9-C_{10} Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	98
Surrogate % Recovery - FID	100

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g161-2180-5d

Reviewed By:

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: ECS

Project Name: Wolth Property

Sample Information and Analytical Results	
Sample Identification	WWS-1
Sample Matrix	Water
Date Collected	10/05/05
Date Received	10/06/05
Date Extracted	10/07/05
Date Analyzed	10/07/05
Dry Weight	
Dilution Factor	1
C_9-C_{18} Aliphatics*	< 100 (ug/L)
C_{19}-C_{36} Aliphatics*	< 100 (ug/L)
C_{11}-C_{22} Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	62
Aromatic Surrogate % Recovery	75

Comments:

* = Excludes any surrogates or internal standards

Sample did not require fractionation

Lab info: G161-2180-5J

Reviewed By:

Results for Volatiles
by GC 601

Client Sample ID: WWS-1
Client Project ID: Wolth Property
Lab Sample ID: G161-2180-5A
Lab Project ID: G161-2180

Analyzed By: MJC
Date Collected: 10/5/2005 9:52
Date Received: 10/6/2005
Matrix: Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Bromodichloromethane	BQL	1.00	1	10/10/2005
Bromoform	BQL	2.00	1	10/10/2005
Bromomethane	BQL	1.00	1	10/10/2005
Carbon tetrachloride	BQL	1.00	1	10/10/2005
Chlorobenzene	BQL	1.00	1	10/10/2005
Chloroethane	BQL	1.00	1	10/10/2005
Chloroform	BQL	1.00	1	10/10/2005
Chloromethane	BQL	1.00	1	10/10/2005
Dibromochloromethane	BQL	1.00	1	10/10/2005
1,2-Dibromoethane (EDB)	BQL	1.00	1	10/10/2005
1,2-Dichlorobenzene	BQL	1.00	1	10/10/2005
1,3-Dichlorobenzene	BQL	1.00	1	10/10/2005
1,4-Dichlorobenzene	BQL	1.00	1	10/10/2005
1,1-Dichloroethane	BQL	1.00	1	10/10/2005
1,2-Dichloroethane	BQL	1.00	1	10/10/2005
1,1-Dichloroethene	BQL	1.00	1	10/10/2005
cis-1,2-Dichloroethene	BQL	1.00	1	10/10/2005
trans-1,2-Dichloroethene	BQL	1.00	1	10/10/2005
1,2-Dichloropropane	BQL	1.00	1	10/10/2005
cis-1,3-Dichloropropene	BQL	1.00	1	10/10/2005
trans-1,3-Dichloropropene	BQL	1.00	1	10/10/2005
Methylene Chloride	BQL	5.00	1	10/10/2005
1,1,2,2-Tetrachloroethane	BQL	1.00	1	10/10/2005
Tetrachloroethene	BQL	1.00	1	10/10/2005
1,1,1-Trichloroethane	BQL	1.00	1	10/10/2005
1,1,2-Trichloroethane	BQL	1.00	1	10/10/2005
Trichloroethene	BQL	1.00	1	10/10/2005
Trichlorofluoromethane	BQL	1.00	1	10/10/2005
Vinyl Chloride	BQL	1.00	1	10/10/2005

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
1,4-Dichlorobutane	40	42.3	106

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By: [illegible]

Results for Volatiles
by GC 602

Client Sample ID: WWS-1
Client Project ID: Wolth Property
Lab Sample ID: G161-2180-5A
Lab Project ID: G161-2180

Analyzed By: MJC
Date Collected: 10/5/2005 9:52
Date Received: 10/6/2005
Matrix: Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Benzene	BQL	1.00	1	10/10/2005
Diisopropyl ether (DIPE)	BQL	1.00	1	10/10/2005
Ethylbenzene	BQL	1.00	1	10/10/2005
Methyl-tert butyl ether (MTBE)	BQL	2.00	1	10/10/2005
Toluene	BQL	1.00	1	10/10/2005
m/p-Xylene	BQL	2.00	1	10/10/2005
o-Xylene	BQL	2.00	1	10/10/2005

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.0	100

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

Results for Semivolatiles
by GCMS 625-BN

Client Sample ID: WWS-1
Client Project ID: Wolth Property
Lab Sample ID: G161-2180-5I
Lab Project ID: G161-2180

Analyzed By: MRC
Date Collected: 10/5/2005 9:52
Date Received: 10/6/2005
Date Extracted: 10/6/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
Acenaphthene	BQL	10.0	1	10/8/2005
Acenaphthylene	BQL	10.0	1	10/8/2005
Anthracene	BQL	10.0	1	10/8/2005
Benzo[a]anthracene	BQL	10.0	1	10/8/2005
Benzo[a]pyrene	BQL	10.0	1	10/8/2005
Benzo[b]fluoranthene	BQL	10.0	1	10/8/2005
Benzo[g,h,i]perylene	BQL	10.0	1	10/8/2005
Benzo[k]fluoranthene	BQL	10.0	1	10/8/2005
Bis(2-chloroethoxy)methane	BQL	10.0	1	10/8/2005
Bis(2-chloroethyl)ether	BQL	10.0	1	10/8/2005
Bis(2-chloroisopropyl)ether	BQL	10.0	1	10/8/2005
Bis(2-ethylhexyl)phthalate	BQL	10.0	1	10/8/2005
4-bromophenyl phenyl ether	BQL	10.0	1	10/8/2005
Butylbenzylphthalate	BQL	10.0	1	10/8/2005
2-Chloronaphthalene	BQL	10.0	1	10/8/2005
4-Chlorophenyl phenyl ether	BQL	10.0	1	10/8/2005
Chrysene	BQL	10.0	1	10/8/2005
Dibenzo[a,h]anthracene	BQL	10.0	1	10/8/2005
Di-n-Butylphthalate	BQL	10.0	1	10/8/2005
1,2-Dichlorobenzene	BQL	10.0	1	10/8/2005
1,3-Dichlorobenzene	BQL	10.0	1	10/8/2005
1,4-Dichlorobenzene	BQL	10.0	1	10/8/2005
3,3'-Dichlorobenzidine	BQL	20.0	1	10/8/2005
Diethylphthalate	BQL	10.0	1	10/8/2005
Dimethylphthalate	BQL	10.0	1	10/8/2005
Di-n-octylphthalate	BQL	10.0	1	10/8/2005
2,4-Dinitrotoluene	BQL	10.0	1	10/8/2005
2,6-Dinitrotoluene	BQL	10.0	1	10/8/2005
Diphenylamine *	BQL	10.0	1	10/8/2005
Fluoranthene	BQL	10.0	1	10/8/2005
Fluorene	BQL	10.0	1	10/8/2005
Hexachlorobenzene	BQL	10.0	1	10/8/2005
Hexachlorobutadiene	BQL	10.0	1	10/8/2005
Hexachlorocyclopentadiene	BQL	20.0	1	10/8/2005
Hexachloroethane	BQL	10.0	1	10/8/2005
Indeno(1,2,3-c,d)pyrene	BQL	10.0	1	10/8/2005
Isophorone	BQL	10.0	1	10/8/2005
Naphthalene	BQL	10.0	1	10/8/2005
Nitrobenzene	BQL	10.0	1	10/8/2005
N-Nitrosodi-n-propylamine	BQL	10.0	1	10/8/2005
Phenanthrene	BQL	10.0	1	10/8/2005
Pyrene	BQL	10.0	1	10/8/2005

Results for Semivolatiles
by GCMS 625-BN

Client Sample ID: WWS-1
Client Project ID: Wolth Property
Lab Sample ID: G161-2180-5I
Lab Project ID: G161-2180

Analyzed By: MRC
Date Collected: 10/5/2005 9:52
Date Received: 10/6/2005
Date Extracted: 10/6/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
1,2,4-Trichlorobenzene	BQL	10.0	1	10/8/2005

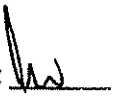
	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.9	89
Nitrobenzene-d5	10	8.2	82
4-Terphenyl-d14	10	9	90

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By: 

Results of Library Search for Semivolatile Compounds
by GCMS

Client Sample ID: WWS-1
Client Project ID: Wolth Property
Lab Sample ID: G161-2180-5I
Lab Project ID: G161-2180
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 10/5/2005 9:52
Date Received: 10/6/2005
Date Extracted: 10/6/2005
Date Analyzed: 10/8/2005
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	No library search compounds detected.				
2					
3					
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: _____

Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 09/27/05 PID Initial Calibration Date: 07/14/05

Calibration Ranges and Limits

Range	MDL (07/15/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_5-C_8 Aliphatics	4.4	14	100	10
C_9-C_{12} Aliphatics	3.4	11	100	10
C_9-C_{10} Aromatics	0.13	0.41	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	%RSD or CCC	Method of Quantitation
C_5-C_8 Aliphatics	40	19.9	Calibration Factor
	1000		
	2000		
	3000		
	4000		
C_9-C_{12} Aliphatics	10	0.99	Linear Regression
	250		
	500		
	750		
	1000		
C_9-C_{10} Aromatics	10	19.50	Calibration Factor
	250		
	500		
	750		
	1000		

Calibration Check Date: 10/11/05

Calibration Check

Range	Levels (µg/L)	(mg/Kg)	RPD
C_5-C_8 Aliphatics	2000	200	1.2
C_9-C_{12} Aliphatics	500	50	-11.9
C_9-C_{10} Aromatics	500	50	-13.6

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 09/27/05 PID Initial Calibration Date: 07/14/05

Calibration Ranges and Limits

Range	MDL (07/15/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_5-C_8 Aliphatics	4.4	14	100	10
C_9-C_{12} Aliphatics	3.4	11	100	10
C_9-C_{10} Aromatics	0.13	0.41	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	%RSD or CCC	Method of Quantitation
C_5-C_8 Aliphatics	40	19.9	Calibration Factor
	1000		
	2000		
	3000		
	4000		
C_9-C_{12} Aliphatics	10	0.99	Linear Regression
	250		
	500		
	750		
	1000		
C_9-C_{10} Aromatics	10	19.50	Calibration Factor
	250		
	500		
	750		
	1000		

Calibration Check Date: 10/07/05

Calibration Check

Range	Levels (µg/L)	(mg/Kg)	RPD
C_5-C_8 Aliphatics	2000	200	-0.7
C_9-C_{12} Aliphatics	500	50	-16.5
C_9-C_{10} Aromatics	500	50	-18.0

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 09/13/05

Calibration Ranges and Limits

Range	MDL (2/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_9-C_{18} Aliphatics	3.84	12.2	100	10
C_{19}-C_{36} Aliphatics	0.57	1.8	100	10
C_{11}-C_{22} Aromatics	4.54	14.4	100	10

Calibration Concentration Levels

Range	Levels (µg/mL)	%RSD or CCC	Method of Quantitation
C_9-C_{18} Aliphatics	6	3.80	Calibration Factor
	30		
	60		
	120		
	240		
C_{19}-C_{36} Aliphatics	8	3.8	Calibration Factor
	40		
	80		
	160		
	320		
C_{11}-C_{22} Aromatics	17	7.9	Calibration Factor
	85		
	170		
	340		
	680		

Calibration Check Date: 10/07/05

Calibration Check

Range	Levels (µg/mL)	RPD
C_9-C_{18} Aliphatics	120	-18.2
C_{19}-C_{36} Aliphatics	160	-10.2
C_{11}-C_{22} Aromatics	340	-10.0

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 09/13/05

Calibration Ranges and Limits

Range	MDL (2/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_9-C_{18} Aliphatics	3.84	12.2	100	10
C_{19}-C_{36} Aliphatics	0.57	1.8	100	10
C_{11}-C_{22} Aromatics	4.54	14.4	100	10

Calibration Concentration Levels

Range	Levels (µg/mL)	%RSD or CCC	Method of Quantitation
C_9-C_{18} Aliphatics	6	3.80	Calibration Factor
	30		
	60		
	120		
	240		
C_{19}-C_{36} Aliphatics	8	3.8	Calibration Factor
	40		
	80		
	160		
	320		
C_{11}-C_{22} Aromatics	17	7.9	Calibration Factor
	85		
	170		
	340		
	680		

Calibration Check Date: 10/17/05

Calibration Check

Range	Levels (µg/mL)	RPD
C_9-C_{18} Aliphatics	120	-7.1
C_{19}-C_{36} Aliphatics	160	-11.2
C_{11}-C_{22} Aromatics	340	-10.0

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

List of Reporting Abbreviations and Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantitation Limit

DF = Dilution Factor

Dup = Duplicate

D = Detected, but RPD is > 40% between results in dual column method.

E = Estimated concentration, exceeds calibration range.

J = Estimated concentration, below calibration range and above MDL

LCS(D) = Laboratory Control Spike (Duplicate)

MDL = Method Detection Limit

MS(D) = Matrix Spike (Duplicate)

PQL = Practical Quantitation Limit

RL = Reporting Limit

RPD = Relative Percent Difference

mg/kg = milligram per kilogram, ppm, parts per million

ug/kg = micrograms per kilogram, ppb, parts per billion

mg/L = milligram per liter, ppm, parts per million

ug/L = micrograms per liter, ppb, parts per billion

% Rec = Percent Recovery

% soilds = Percent Solids

Special Notes:

1) Metals and mercury samples are digested with a hot block, see the standard operating procedure document for details.

2) Uncertainty for all reported data is less than or equal to 30 percent.

PARADIGM ANALYTICAL LABORATORIES, INC.
5500 Business Drive, Wilmington, NC 28405
Phone: (910)-350-1903 FAX: (910)-350-1557

Chain-of Custody Record & Analytical Request

COC# 50995

Page 1 of 1

Client: ECS Limited
Address: 6909 International Dr Suite 103
Address: Greensboro, NC 27409
Quote #: 1042

Project ID: Wolfth Property
Contact: Jason Ricks
Phone: 336-856-7150
Fax: 336-856-7160

Date: 10/5/05
Turnaround: Standard
Job Number: 6-9506
P.O. Number:

Report To: jricks@ecslimited.com
Invoice To: ECS

Sample ID	Date	Time	Matrix	Preservatives: Sodium Bisulfate	Preservatives: methanol	Preservatives: HCL		Analyses: 8260 5035	Analyses: 8270 BN	Analyses: MADEP EPH/VPH		Analyses: 601/602	Analyses: 8325 BN Lotec					Comments: Please specify any special reporting requirements
WS-1-5	10/4/05	942	soil	✓	✓			✓	✓	✓								City of
WS-2-5	10/4/05	1003	soil	✓	✓			✓	✓	✓								Greensboro
WS-2-10	10/4/05	1005	soil	✓	✓			✓	✓	✓								
Dup-1	10/4/05		soil	✓	✓			✓										Project
WWS-1	10/5/05	952	water			✓				✓		✓	✓					
																		G161-2180

Relinquished By	Date	Time	Received By	Date	Time	Temperature
[signature]	10/5/05	1800	Fedex			
			[signature]	10/6/05	1030	3.3°C

State Certification Requested: NC (✓) SC ____ Other ____

SEE REVERSE FOR TERMS AND CONDITIONS

ORIGINAL

PARADIGM ANALYTICAL LABORATORIES, INC.

N.C. CERTIFICATION #481

WORTH PROPERTY
LABORATORY QA/QC DATA

Mr. Jason Ricks
ECS
6909 International Drive
Greensboro NC 27409

Report Number: G161-2180

Client Project: Wolth Property

Dear Mr. Ricks:

Enclosed are the results of the analytical services performed under the referenced project. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. Any samples submitted to our laboratory will will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or the services performed during this project, please call Paradigm at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using Paradigm Analytical Labs for your analytical services. We look forward to working with you again on any additional analytical needs which you may have.

Sincerely,
Paradigm Analytical Laboratories, Inc.

10/24/05

Laboratory Director Date
J. Patrick Weaver

CASE NARRATIVE

Date: November 15, 2005

ECS Project ID: Wolth Property
Paradigm Analytical ID: G161-2180

Four water and one soil samples were received at the laboratory October 6 for analysis as indicated on the chain of custody. The samples were received in good condition, within temperature and holding time limits.

All extractions and analyses were completed within holding time. The following discussion summarizes quality control results by parameter.

8260/5035

All surrogate spike recoveries were within limit.

The samples were analyzed in two analytical batches.

Both blanks were free of target compounds.

Both MS/MSD pairs and both LCSs passed method required spiking compound recovery limits.

8270BN/ 625BN

All surrogate spike recoveries were within limit.

The samples were extracted in two analytical batches.

Both blanks were free of target compounds.

Both MS/MSD pairs and both LCSs passed method required spiking compound recovery limits.

VPH

All surrogate spike recoveries were within limit.

The sample was analyzed in one analytical batch.

The blank was free of target compounds.

The MS/MSD pair and LCS passed method required spiking compound recovery limits.

EPH

All surrogate spike recoveries were within limit.

The sample was analyzed in one analytical batch.

The blank was free of target compounds.

The MS/MSD pair and LCS passed method required spiking compound recovery limits.

601/602

All surrogate spike recoveries were within limit.

The sample was analyzed in one analytical batch.

The blank was free of target compounds.

The MS/MSD pair and LCS passed method required spiking compound recovery limits.

List of Reporting Abbreviations and Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantitation Limit

DF = Dilution Factor

Dup = Duplicate

D = Detected, but RPD is > 40% between results in dual column method.

E = Estimated concentration, exceeds calibration range.

J = Estimated concentration, below calibration range and above MDL

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MDL = Method Detection Limit

MS(D) = Matrix Spike (Duplicate)

PQL = Practical Quantitation Limit

RL = Reporting Limit

RPD = Relative Percent Difference

mg/kg = milligram per kilogram, ppm, parts per million

ug/kg = micrograms per kilogram, ppb, parts per billion

mg/L = milligram per liter, ppm, parts per million

ug/L = micrograms per liter, ppb, parts per billion

% Rec = Percent Recovery

% soilds = Percent Solids

Special Notes:

1) Metals and mercury samples are digested with a hot block, see the standard operating procedure document for details.

2) Uncertainty for all reported data is less than or equal to 30 percent.

MI34.092205.2

PARADIGM ANALYTICAL LABORATORIES, INC.
5500 Business Drive, Wilmington, NC 28405
Phone: (910)-350-1903 FAX: (910)-350-1557

Chain-of Custody Record & Analytical Request

COC# 50995

Page 1 **of** 1

Client: ECS Limited
Address: 6809 International Dr. Suite 103
Address: Greensboro, NC 27409
Quote #: 1242

Project ID: Wolfe Piggity
Contact: Jason Ricks
Phone: 336-856-7150
Fax: 336-856-7160

Date: 10/5/05
Turnaround: Standard
Job Number: 6-9506
P.O. Number:

Report To: Jricks@ecslimited.com
Invoice To: ECS

Sample ID	Date	Time	Matrix	Preservatives: Sodium Bisulfate	Preservatives: methanol	Preservatives: HCL	Preservatives:	Analyses: 8260 5035	Analyses: 8270 BN	Analyses: MADEP EPH/VPH	Analyses:	Analyses: GC1/602	Analyses: 8260 BN + 10 TIC	Analyses:	Analyses:	Analyses:	Analyses:
WS-1-5	10/4/05	942	soil	✓	✓			✓	✓	✓							
WS-2-5	10/4/05	1003	soil	✓	✓			✓	✓	✓							
WS-2-10	10/4/05	1005	soil	✓	✓			✓	✓	✓							
Dup-1	10/4/05		soil	✓	✓			✓									
WWS-1	10/5/05	952	water			✓				✓		✓	✓				

Comments:
Please specify any special reporting requirements

City of Greensboro Project G161-2180

Relinquished By	Date	Time	Received By	Date	Time	Temperature
[signature]	10/5/05	1800	Fedex			
			[signature]	10/6/05	1030	3.3°C

State Certification Requested
NC (X) SC ____ Other ____

SEE REVERSE FOR TERMS AND CONDITIONS

PARADIGM ANALYTICAL LABORATORIES, INC.

N.C. CERTIFICATION #481

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: WS-1-5
Client Project ID: Wolth Property
Lab Sample ID G161-2180-1A
Lab Project ID: G161-2180
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 10-04-2005 09:42
Date Received: 10/6/2005
Matrix: Soil
%Solids: 65.1

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	0.0644	1	10/13/2005
Benzene	BQL	0.00644	1	10/13/2005
Bromobenzene	BQL	0.00644	1	10/13/2005
Bromochloromethane	BQL	0.00644	1	10/13/2005
Bromodichloromethane	BQL	0.00644	1	10/13/2005
Bromoform	BQL	0.00644	1	10/13/2005
Bromomethane	BQL	0.00644	1	10/13/2005
2-Butanone	BQL	0.0322	1	10/13/2005
n-Butylbenzene	**0.0236**	0.00644	1	10/13/2005
sec-Butylbenzene	**0.0155**	0.00644	1	10/13/2005
tert-Butylbenzene	BQL	0.00644	1	10/13/2005
Carbon disulfide	BQL	0.00644	1	10/13/2005
Carbon tetrachloride	BQL	0.00644	1	10/13/2005
Chlorobenzene	BQL	0.00644	1	10/13/2005
Chloroethane	BQL	0.00644	1	10/13/2005
Chloroform	BQL	0.00644	1	10/13/2005
Chloromethane	BQL	0.00644	1	10/13/2005
2-Chlorotoluene	BQL	0.00644	1	10/13/2005
4-Chlorotoluene	BQL	0.00644	1	10/13/2005
Dibromochloromethane	BQL	0.00644	1	10/13/2005
1,2-Dibromo-3-chloropropane	BQL	0.00644	1	10/13/2005
Dibromomethane	BQL	0.00644	1	10/13/2005
1,2-Dibromoethane (EDB)	BQL	0.00644	1	10/13/2005
1,2-Dichlorobenzene	BQL	0.00644	1	10/13/2005
1,3-Dichlorobenzene	BQL	0.00644	1	10/13/2005
1,4-Dichlorobenzene	BQL	0.00644	1	10/13/2005
trans-1,4-Dichloro-2-butene	BQL	0.00644	1	10/13/2005
1,1-Dichloroethane	BQL	0.00644	1	10/13/2005
1,1-Dichloroethene	BQL	0.00644	1	10/13/2005
1,2-Dichloroethane	BQL	0.00644	1	10/13/2005
cis-1,2-Dichloroethene	BQL	0.00644	1	10/13/2005
trans-1,2-dichloroethene	BQL	0.00644	1	10/13/2005
1,2-Dichloropropane	BQL	0.00644	1	10/13/2005
1,3-Dichloropropane	BQL	0.00644	1	10/13/2005
2,2-Dichloropropane	BQL	0.00644	1	10/13/2005
1,1-Dichloropropene	BQL	0.00644	1	10/13/2005
cis-1,3-Dichloropropene	BQL	0.00644	1	10/13/2005
trans-1,3-Dichloropropene	BQL	0.00644	1	10/13/2005
Dichlorodifluoromethane	BQL	0.00644	1	10/13/2005
Diisopropyl ether (DIPE)	BQL	0.00644	1	10/13/2005
Ethylbenzene	BQL	0.00644	1	10/13/2005
Hexachlorobutadiene	BQL	0.00644	1	10/13/2005
2-Hexanone	BQL	0.00644	1	10/13/2005
Iodomethane	BQL	0.00644	1	10/13/2005

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: WS-1-5
Client Project ID: Wolth Property
Lab Sample ID G161-2180-1A
Lab Project ID: G161-2180
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 10-04-2005 09:42
Date Received: 10/6/2005
Matrix: Soil
%Solids: 65.1

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	0.00644	1	10/13/2005
4-Isopropyltoluene	BQL	0.00644	1	10/13/2005
Methylene chloride	BQL	0.0257	1	10/13/2005
4-Methyl-2-pentanone	BQL	0.00644	1	10/13/2005
Methyl-tert-butyl ether (MTBE)	BQL	0.00644	1	10/13/2005
Naphthalene	**0.167**	0.00644	1	10/13/2005
n-Propyl benzene	BQL	0.00644	1	10/13/2005
Styrene	BQL	0.00644	1	10/13/2005
1,1,1,2-Tetrachloroethane	BQL	0.00644	1	10/13/2005
1,1,2,2-Tetrachloroethane	BQL	0.00644	1	10/13/2005
Tetrachloroethene	BQL	0.00644	1	10/13/2005
Toluene	BQL	0.00644	1	10/13/2005
1,2,3-Trichlorobenzene	BQL	0.00644	1	10/13/2005
1,2,4-Trichlorobenzene	BQL	0.00644	1	10/13/2005
Trichloroethene	BQL	0.00644	1	10/13/2005
1,1,1-Trichloroethane	BQL	0.00644	1	10/13/2005
1,1,2-Trichloroethane	BQL	0.00644	1	10/13/2005
Trichlorofluoromethane	BQL	0.00644	1	10/13/2005
1,2,3-Trichloropropane	BQL	0.00644	1	10/13/2005
1,2,4-Trimethylbenzene	BQL	0.00644	1	10/13/2005
1,3,5-Trimethylbenzene	BQL	0.00644	1	10/13/2005
Vinyl chloride	BQL	0.00644	1	10/13/2005
m-,p-Xylene	BQL	0.0129	1	10/13/2005
o-Xylene	BQL	0.00644	1	10/13/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.05	0.055	110
1,2-Dichloroethane-d4	0.05	0.0544	109
Toluene-d8	0.05	0.0549	110

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: [illegible]

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: WS-2-5
Client Project ID: Wolth Property
Lab Sample ID G161-2180-2A
Lab Project ID: G161-2180
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 10-04-2005 10:03
Date Received: 10/6/2005
Matrix: Soil
%Solids: 87.1

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	0.0423	1	10/13/2005
Benzene	BQL	0.00423	1	10/13/2005
Bromobenzene	BQL	0.00423	1	10/13/2005
Bromochloromethane	BQL	0.00423	1	10/13/2005
Bromodichloromethane	BQL	0.00423	1	10/13/2005
Bromoform	BQL	0.00423	1	10/13/2005
Bromomethane	BQL	0.00423	1	10/13/2005
2-Butanone	BQL	0.0212	1	10/13/2005
n-Butylbenzene	BQL	0.00423	1	10/13/2005
sec-Butylbenzene	BQL	0.00423	1	10/13/2005
tert-Butylbenzene	BQL	0.00423	1	10/13/2005
Carbon disulfide	BQL	0.00423	1	10/13/2005
Carbon tetrachloride	BQL	0.00423	1	10/13/2005
Chlorobenzene	BQL	0.00423	1	10/13/2005
Chloroethane	BQL	0.00423	1	10/13/2005
Chloroform	BQL	0.00423	1	10/13/2005
Chloromethane	BQL	0.00423	1	10/13/2005
2-Chlorotoluene	BQL	0.00423	1	10/13/2005
4-Chlorotoluene	BQL	0.00423	1	10/13/2005
Dibromochloromethane	BQL	0.00423	1	10/13/2005
1,2-Dibromo-3-chloropropane	BQL	0.00423	1	10/13/2005
Dibromomethane	BQL	0.00423	1	10/13/2005
1,2-Dibromoethane (EDB)	BQL	0.00423	1	10/13/2005
1,2-Dichlorobenzene	BQL	0.00423	1	10/13/2005
1,3-Dichlorobenzene	BQL	0.00423	1	10/13/2005
1,4-Dichlorobenzene	BQL	0.00423	1	10/13/2005
trans-1,4-Dichloro-2-butene	BQL	0.00423	1	10/13/2005
1,1-Dichloroethane	BQL	0.00423	1	10/13/2005
1,1-Dichloroethene	BQL	0.00423	1	10/13/2005
1,2-Dichloroethane	BQL	0.00423	1	10/13/2005
cis-1,2-Dichloroethene	BQL	0.00423	1	10/13/2005
trans-1,2-dichloroethene	BQL	0.00423	1	10/13/2005
1,2-Dichloropropane	BQL	0.00423	1	10/13/2005
1,3-Dichloropropane	BQL	0.00423	1	10/13/2005
2,2-Dichloropropane	BQL	0.00423	1	10/13/2005
1,1-Dichloropropene	BQL	0.00423	1	10/13/2005
cis-1,3-Dichloropropene	BQL	0.00423	1	10/13/2005
trans-1,3-Dichloropropene	BQL	0.00423	1	10/13/2005
Dichlorodifluoromethane	BQL	0.00423	1	10/13/2005
Diisopropyl ether (DIPE)	BQL	0.00423	1	10/13/2005
Ethylbenzene	BQL	0.00423	1	10/13/2005
Hexachlorobutadiene	BQL	0.00423	1	10/13/2005
2-Hexanone	BQL	0.00423	1	10/13/2005
Iodomethane	BQL	0.00423	1	10/13/2005

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: WS-2-5
Client Project ID: Wolth Property
Lab Sample ID G161-2180-2A
Lab Project ID: G161-2180
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 10-04-2005 10:03
Date Received: 10/6/2005
Matrix: Soil
%Solids: 87.1

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	0.00423	1	10/13/2005
4-Isopropyltoluene	BQL	0.00423	1	10/13/2005
Methylene chloride	BQL	0.0169	1	10/13/2005
4-Methyl-2-pentanone	BQL	0.00423	1	10/13/2005
Methyl-tert-butyl ether (MTBE)	BQL	0.00423	1	10/13/2005
Naphthalene	BQL	0.00423	1	10/13/2005
n-Propyl benzene	BQL	0.00423	1	10/13/2005
Styrene	BQL	0.00423	1	10/13/2005
1,1,1,2-Tetrachloroethane	BQL	0.00423	1	10/13/2005
1,1,2,2-Tetrachloroethane	BQL	0.00423	1	10/13/2005
Tetrachloroethene	BQL	0.00423	1	10/13/2005
Toluene	BQL	0.00423	1	10/13/2005
1,2,3-Trichlorobenzene	BQL	0.00423	1	10/13/2005
1,2,4-Trichlorobenzene	BQL	0.00423	1	10/13/2005
Trichloroethene	BQL	0.00423	1	10/13/2005
1,1,1-Trichloroethane	BQL	0.00423	1	10/13/2005
1,1,2-Trichloroethane	BQL	0.00423	1	10/13/2005
Trichlorofluoromethane	BQL	0.00423	1	10/13/2005
1,2,3-Trichloropropane	BQL	0.00423	1	10/13/2005
1,2,4-Trimethylbenzene	BQL	0.00423	1	10/13/2005
1,3,5-Trimethylbenzene	BQL	0.00423	1	10/13/2005
Vinyl chloride	BQL	0.00423	1	10/13/2005
m-,p-Xylene	BQL	0.00847	1	10/13/2005
o-Xylene	BQL	0.00423	1	10/13/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.05	0.0514	103
1,2-Dichloroethane-d4	0.05	0.0716	143
Toluene-d8	0.05	0.0508	102

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By:

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: WS-2-10
Client Project ID: Wolth Property
Lab Sample ID G161-2180-3A
Lab Project ID: G161-2180
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 10-04-2005 10:05
Date Received: 10/6/2005
Matrix: Soil
%Solids: 72.4

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	0.0529	1	10/13/2005
Benzene	BQL	0.00529	1	10/13/2005
Bromobenzene	BQL	0.00529	1	10/13/2005
Bromochloromethane	BQL	0.00529	1	10/13/2005
Bromodichloromethane	BQL	0.00529	1	10/13/2005
Bromoform	BQL	0.00529	1	10/13/2005
Bromomethane	BQL	0.00529	1	10/13/2005
2-Butanone	BQL	0.0265	1	10/13/2005
n-Butylbenzene	BQL	0.00529	1	10/13/2005
sec-Butylbenzene	BQL	0.00529	1	10/13/2005
tert-Butylbenzene	BQL	0.00529	1	10/13/2005
Carbon disulfide	BQL	0.00529	1	10/13/2005
Carbon tetrachloride	BQL	0.00529	1	10/13/2005
Chlorobenzene	BQL	0.00529	1	10/13/2005
Chloroethane	BQL	0.00529	1	10/13/2005
Chloroform	BQL	0.00529	1	10/13/2005
Chloromethane	BQL	0.00529	1	10/13/2005
2-Chlorotoluene	BQL	0.00529	1	10/13/2005
4-Chlorotoluene	BQL	0.00529	1	10/13/2005
Dibromochloromethane	BQL	0.00529	1	10/13/2005
1,2-Dibromo-3-chloropropane	BQL	0.00529	1	10/13/2005
Dibromomethane	BQL	0.00529	1	10/13/2005
1,2-Dibromoethane (EDB)	BQL	0.00529	1	10/13/2005
1,2-Dichlorobenzene	BQL	0.00529	1	10/13/2005
1,3-Dichlorobenzene	BQL	0.00529	1	10/13/2005
1,4-Dichlorobenzene	BQL	0.00529	1	10/13/2005
trans-1,4-Dichloro-2-butene	BQL	0.00529	1	10/13/2005
1,1-Dichloroethane	BQL	0.00529	1	10/13/2005
1,1-Dichloroethene	BQL	0.00529	1	10/13/2005
1,2-Dichloroethane	BQL	0.00529	1	10/13/2005
cis-1,2-Dichloroethene	BQL	0.00529	1	10/13/2005
trans-1,2-dichloroethene	BQL	0.00529	1	10/13/2005
1,2-Dichloropropane	BQL	0.00529	1	10/13/2005
1,3-Dichloropropane	BQL	0.00529	1	10/13/2005
2,2-Dichloropropane	BQL	0.00529	1	10/13/2005
1,1-Dichloropropene	BQL	0.00529	1	10/13/2005
cis-1,3-Dichloropropene	BQL	0.00529	1	10/13/2005
trans-1,3-Dichloropropene	BQL	0.00529	1	10/13/2005
Dichlorodifluoromethane	BQL	0.00529	1	10/13/2005
Diisopropyl ether (DIPE)	BQL	0.00529	1	10/13/2005
Ethylbenzene	BQL	0.00529	1	10/13/2005
Hexachlorobutadiene	BQL	0.00529	1	10/13/2005
2-Hexanone	BQL	0.00529	1	10/13/2005
Iodomethane	BQL	0.00529	1	10/13/2005

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: WS-2-10
Client Project ID: Wolth Property
Lab Sample ID G161-2180-3A
Lab Project ID: G161-2180
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 10-04-2005 10:05
Date Received: 10/6/2005
Matrix: Soil
%Solids: 72.4

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	0.00529	1	10/13/2005
4-Isopropyltoluene	BQL	0.00529	1	10/13/2005
Methylene chloride	BQL	0.0212	1	10/13/2005
4-Methyl-2-pentanone	BQL	0.00529	1	10/13/2005
Methyl-tert-butyl ether (MTBE)	BQL	0.00529	1	10/13/2005
Naphthalene	BQL	0.00529	1	10/13/2005
n-Propyl benzene	BQL	0.00529	1	10/13/2005
Styrene	BQL	0.00529	1	10/13/2005
1,1,1,2-Tetrachloroethane	BQL	0.00529	1	10/13/2005
1,1,2,2-Tetrachloroethane	BQL	0.00529	1	10/13/2005
Tetrachloroethene	BQL	0.00529	1	10/13/2005
Toluene	BQL	0.00529	1	10/13/2005
1,2,3-Trichlorobenzene	BQL	0.00529	1	10/13/2005
1,2,4-Trichlorobenzene	BQL	0.00529	1	10/13/2005
Trichloroethene	BQL	0.00529	1	10/13/2005
1,1,1-Trichloroethane	BQL	0.00529	1	10/13/2005
1,1,2-Trichloroethane	BQL	0.00529	1	10/13/2005
Trichlorofluoromethane	BQL	0.00529	1	10/13/2005
1,2,3-Trichloropropane	BQL	0.00529	1	10/13/2005
1,2,4-Trimethylbenzene	BQL	0.00529	1	10/13/2005
1,3,5-Trimethylbenzene	BQL	0.00529	1	10/13/2005
Vinyl chloride	BQL	0.00529	1	10/13/2005
m-,p-Xylene	BQL	0.0106	1	10/13/2005
o-Xylene	BQL	0.00529	1	10/13/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.05	0.0506	101
1,2-Dichloroethane-d4	0.05	0.0699	140
Toluene-d8	0.05	0.0502	100

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: Dup-1
Client Project ID: Wolth Property
Lab Sample ID G161-2180-4A
Lab Project ID: G161-2180
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 10-04-2005 00:00
Date Received: 10/6/2005
Matrix: Soil
%Solids: 87.1

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	0.0379	1	10/13/2005
Benzene	BQL	0.00379	1	10/13/2005
Bromobenzene	BQL	0.00379	1	10/13/2005
Bromochloromethane	BQL	0.00379	1	10/13/2005
Bromodichloromethane	BQL	0.00379	1	10/13/2005
Bromoform	BQL	0.00379	1	10/13/2005
Bromomethane	BQL	0.00379	1	10/13/2005
2-Butanone	BQL	0.0190	1	10/13/2005
n-Butylbenzene	BQL	0.00379	1	10/13/2005
sec-Butylbenzene	BQL	0.00379	1	10/13/2005
tert-Butylbenzene	BQL	0.00379	1	10/13/2005
Carbon disulfide	BQL	0.00379	1	10/13/2005
Carbon tetrachloride	BQL	0.00379	1	10/13/2005
Chlorobenzene	BQL	0.00379	1	10/13/2005
Chloroethane	BQL	0.00379	1	10/13/2005
Chloroform	BQL	0.00379	1	10/13/2005
Chloromethane	BQL	0.00379	1	10/13/2005
2-Chlorotoluene	BQL	0.00379	1	10/13/2005
4-Chlorotoluene	BQL	0.00379	1	10/13/2005
Dibromochloromethane	BQL	0.00379	1	10/13/2005
1,2-Dibromo-3-chloropropane	BQL	0.00379	1	10/13/2005
Dibromomethane	BQL	0.00379	1	10/13/2005
1,2-Dibromoethane (EDB)	BQL	0.00379	1	10/13/2005
1,2-Dichlorobenzene	BQL	0.00379	1	10/13/2005
1,3-Dichlorobenzene	BQL	0.00379	1	10/13/2005
1,4-Dichlorobenzene	BQL	0.00379	1	10/13/2005
trans-1,4-Dichloro-2-butene	BQL	0.00379	1	10/13/2005
1,1-Dichloroethane	BQL	0.00379	1	10/13/2005
1,1-Dichloroethene	BQL	0.00379	1	10/13/2005
1,2-Dichloroethane	BQL	0.00379	1	10/13/2005
cis-1,2-Dichloroethene	BQL	0.00379	1	10/13/2005
trans-1,2-dichloroethene	BQL	0.00379	1	10/13/2005
1,2-Dichloropropane	BQL	0.00379	1	10/13/2005
1,3-Dichloropropane	BQL	0.00379	1	10/13/2005
2,2-Dichloropropane	BQL	0.00379	1	10/13/2005
1,1-Dichloropropene	BQL	0.00379	1	10/13/2005
cis-1,3-Dichloropropene	BQL	0.00379	1	10/13/2005
trans-1,3-Dichloropropene	BQL	0.00379	1	10/13/2005
Dichlorodifluoromethane	BQL	0.00379	1	10/13/2005
Diisopropyl ether (DIPE)	BQL	0.00379	1	10/13/2005
Ethylbenzene	BQL	0.00379	1	10/13/2005
Hexachlorobutadiene	BQL	0.00379	1	10/13/2005
2-Hexanone	BQL	0.00379	1	10/13/2005
Iodomethane	BQL	0.00379	1	10/13/2005

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: Dup-1
Client Project ID: Wolth Property
Lab Sample ID: G161-2180-4A
Lab Project ID: G161-2180
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 10-04-2005 00:00
Date Received: 10/6/2005
Matrix: Soil
%Solids: 87.1

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	0.00379	1	10/13/2005
4-Isopropyltoluene	BQL	0.00379	1	10/13/2005
Methylene chloride	BQL	0.0152	1	10/13/2005
4-Methyl-2-pentanone	BQL	0.00379	1	10/13/2005
Methyl-tert-butyl ether (MTBE)	BQL	0.00379	1	10/13/2005
Naphthalene	BQL	0.00379	1	10/13/2005
n-Propyl benzene	BQL	0.00379	1	10/13/2005
Styrene	BQL	0.00379	1	10/13/2005
1,1,1,2-Tetrachloroethane	BQL	0.00379	1	10/13/2005
1,1,2,2-Tetrachloroethane	BQL	0.00379	1	10/13/2005
Tetrachloroethene	BQL	0.00379	1	10/13/2005
Toluene	BQL	0.00379	1	10/13/2005
1,2,3-Trichlorobenzene	BQL	0.00379	1	10/13/2005
1,2,4-Trichlorobenzene	BQL	0.00379	1	10/13/2005
Trichloroethene	BQL	0.00379	1	10/13/2005
1,1,1-Trichloroethane	BQL	0.00379	1	10/13/2005
1,1,2-Trichloroethane	BQL	0.00379	1	10/13/2005
Trichlorofluoromethane	BQL	0.00379	1	10/13/2005
1,2,3-Trichloropropane	BQL	0.00379	1	10/13/2005
1,2,4-Trimethylbenzene	BQL	0.00379	1	10/13/2005
1,3,5-Trimethylbenzene	BQL	0.00379	1	10/13/2005
Vinyl chloride	BQL	0.00379	1	10/13/2005
m-,p-Xylene	BQL	0.00758	1	10/13/2005
o-Xylene	BQL	0.00379	1	10/13/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.05	0.0507	101
1,2-Dichloroethane-d4	0.05	0.0721	144
Toluene-d8	0.05	0.05	100

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

Paradigm Analytical Laboratories, INC.

2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Level: (low/med) LOW

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	WS-1-5	110	110	109		0
02	G106-559-2A	100	100	142		0
03	G106-559-2B MS	100	97.0	86.0		0
04	G106-559-2C MSD	100	10.0	82.0		0
05	LCS1101205D	99.7	101	98.0		0
06	VBLK1101205E	98	98	109		0
07	WS-2-5	102	103	143		0
08	WS-2-10	100	101	140		0
09	DUP-1	100	101	144		0
10	TRIP BLANK	99	96	158		0
11	G204-493-15B	99	95	118		0
12	G204-493-15B MS	102	102	118		0
13	G204-493-15C MSD	102	106	108		0
14	LCS1101205A	99.7	98.9	105		0
15	VBLK1101205B	98	95	106		0
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

	QC LIMITS
SMC1 (TOL) = Toluene-d8	(59-144)
SMC2 (BFB) = Bromofluorobenzene	(49-151)
SMC3 (DCE) = 1,2-Dichloroethane-d4	(38-170)

Column to be used to flag recovery values.

* Values outside of contract required QC limits.

Paradigm Analytical Laboratories, INC.

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Matrix Spike - EPA Sample No.: G106-559-2A

COMPOUND	SAMPLE CONC (µg/kg)	MS SPIKE (µg/kg)	MS CONC (µg/kg)	MS % REC #	MSD SPIKE (µg/kg)	MSD CONC (µg/kg)	MSD % REC #	% RPD	QC LIMITS RPD	QC LIMITS REC
acetone	BQL	50.0	19.8	39.5	50.0	16.6	33.3	17.2	30	6.81-355
acrolein	BQL	500	376	75.2	500	350	70.1	6.98	30	NA-6510
acrylonitrile	BQL	500	430	86.0	500	408	81.5	5.30	30	NA-5670
benzene	BQL	50.0	46.6	93.2	50.0	47.4	94.8	1.79	30	74.8-133
bromobenzene	BQL	50.0	43.9	87.7	50.0	46.0	92.0	4.80	30	66.1-140
bromochloromethane	BQL	50.0	40.8	81.5 *	50.0	41.4	82.8 *	1.51	30	85.1-136
bromodichloromethane	BQL	50.0	40.7	81.3	50.0	41.0	82.0	0.832	30	77.4-140
bromoform	BQL	50.0	37.1	74.2 *	50.0	35.9	71.7 *	3.37	30	74.7-161
bromomethane	BQL	50.0	67.0	134 *	50.0	68.5	137 *	2.12	30	30.4-127
2-butanone	BQL	50.0	28.4	56.8	50.0	26.1	52.1	8.59	30	40.9-256
n-butylbenzene	BQL	50.0	46.9	93.7	50.0	47.9	95.8	2.13	30	41.2-147
sec-butylbenzene	BQL	50.0	49.2	98.3	50.0	49.7	99.4	1.11	30	56.7-138
tert-butylbenzene	BQL	50.0	47.7	95.3	50.0	49.0	98.1	2.85	30	60.5-142
Carbon disulfide	BQL	50.0	48.1	96.2	50.0	49.1	98.3	2.14	30	64.3-145
carbon tetrachloride	BQL	50.0	41.1	82.3	50.0	41.4	82.8	0.678	30	64.2-142
chlorobenzene	BQL	50.0	43.6	87.2	50.0	45.8	91.6	4.94	30	66.3-135
chloroethane	BQL	50.0	85.7	171	50.0	89.1	178	3.91	30	20.7-182
2-chloroethyl vinyl ether	BQL	50.0	40.4	80.9 *	50.0	36.6	73.3 *	9.86	30	0.00-0.00
chloroform	BQL	50.0	42.6	85.3	50.0	42.8	85.6	0.445	30	71.1-143
chloromethane	BQL	50.0	49.9	99.9	50.0	53.2	106	6.42	30	69.1-138
2-chlorotoluene	BQL	50.0	46.7	93.4	50.0	47.4	94.8	1.44	30	59.8-144
4-chlorotoluene	BQL	50.0	47.1	94.2	50.0	48.8	97.6	3.52	30	59.0-141
dibromochloromethane	BQL	50.0	38.6	77.2 *	50.0	39.6	79.2	2.56	30	78.1-141
1,2-dibromo-3-chloropropane	BQL	250	183	73.2	250	174	69.5	5.10	30	43.4-229
1,2-dibromomethane	BQL	50.0	40.5	80.9	50.0	41.0	82.1	1.40	30	78.3-148
dibromomethane	BQL	50.0	40.0	80.0	50.0	35.8	71.6 *	11.0	30	80.0-150
1,2-dichlorobenzene	BQL	50.0	43.6	87.2	50.0	44.0	88.1	1.00	30	57.5-148
1,3-dichlorobenzene	BQL	50.0	44.5	88.9	50.0	45.0	90.1	1.34	30	55.0-145
1,4-dichlorobenzene	BQL	50.0	44.2	88.5	50.0	45.0	90.0	1.64	30	53.4-146
trans-1,4-Dichloro-2-butene	BQL	250	185	73.9	250	174	69.8	5.66	30	48.9-211
dichlorodifluoromethane	BQL	50.0	47.5	95.1	50.0	46.8	93.6	1.59	30	81.6-130
1,1-dichloroethane	BQL	50.0	46.2	92.5	50.0	47.4	94.8	2.46	30	71.6-139
1,2-dichloroethane	BQL	50.0	38.5	77.1	50.0	37.8	75.6	1.99	30	72.9-146
1,1-dichloroethene	BQL	50.0	46.3	92.6	50.0	47.4	94.8	2.35	30	72.0-135
cis-1,2-dichloroethene	BQL	50.0	45.5	90.9	50.0	45.3	90.6	0.397	30	76.9-134
trans-1,2-dichloroethene	BQL	50.0	46.7	93.4	50.0	46.6	93.3	0.0857	30	72.0-135
1,2-dichloropropane	BQL	50.0	46.7	93.4	50.0	47.0	94.0	0.683	30	76.1-136
1,3-dichloropropane	BQL	50.0	43.0	86.0	50.0	43.3	86.6	0.718	30	83.2-137
2,2-dichloropropane	BQL	50.0	40.1	80.2	50.0	38.2	76.3	4.93	30	58.0-150
1,1-dichloropropene	BQL	50.0	46.6	93.1	50.0	47.3	94.5	1.53	30	68.5-137
cis-1,3-dichloropropene	BQL	50.0	42.5	85.0	50.0	42.1	84.3	0.921	30	72.1-146

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 72 outside of limits

Spike Recovery: 10 out of 144 outside of limits

COMMENTS: _____

Paradigm Analytical Laboratories, INC.

3B

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix Spike - EPA Sample No.: G106-559-2A

COMPOUND	SAMPLE CONC (µg/kg)	MS SPIKE (µg/kg)	MS CONC (µg/kg)	MS % REC #	MSD SPIKE (µg/kg)	MSD CONC (µg/kg)	MSD % REC #	% RPD	QC LIMITS RPD	QC LIMITS REC
trans-1,3-dichloropropene	BQL	50.0	38.8	77.6	50.0	37.9	75.9	2.29	30	72.5-152
Diisopropyl ether	BQL	50.0	48.3	96.7	50.0	48.7	97.4	0.701	30	59.9-147
ethylbenzene	BQL	50.0	49.7	99.4	50.0	50.9	102	2.40	30	68.5-135
hexachlorobutadiene	BQL	50.0	34.5	69.0	50.0	42.3	84.6	20.3	30	12.1-169
2-hexanone	BQL	50.0	32.1	64.2	50.0	31.4	62.7	2.46	30	39.9-238
Iodomethane	BQL	50.0	47.8	95.6	50.0	40.8	81.7	15.7	30	39.5-177
isopropylbenzene	BQL	50.0	48.3	96.6	50.0	49.9	99.7	3.18	30	63.7-135
4-isopropyltoluene	BQL	50.0	46.5	93.0	50.0	47.7	95.3	2.48	30	53.2-142
Methyl-tert-butyl ether	BQL	50.0	42.6	85.2	50.0	41.5	83.0	2.64	30	73.3-155
methylene chloride	BQL	50.0	43.9	87.8	50.0	43.4	86.7	1.24	30	54.3-156
4-methyl-2-pentanone	BQL	50.0	36.9	73.8	50.0	31.9	63.8	14.5	30	47.2-227
naphthalene	BQL	50.0	27.4	54.8	50.0	32.8	65.5	17.7	30	14.4-218
n-propyl benzene	BQL	50.0	50.2	100	50.0	51.5	103	2.56	30	61.7-134
styrene	BQL	50.0	45.5	91.0	50.0	45.5	91.0	0.00	30	65.7-133
1,1,1,2-tetrachloroethane	BQL	50.0	43.8	87.5	50.0	45.3	90.6	3.48	30	70.4-136
1,1,2,2-tetrachloroethane	BQL	50.0	40.5	81.0	50.0	39.4	78.8	2.83	30	68.8-175
tetrachloroethene	BQL	50.0	45.7	91.4	50.0	49.6	99.2	8.21	30	61.6-137
toluene	BQL	50.0	45.4	90.8	50.0	46.7	93.4	2.82	30	70.5-138
1,2,3-trichlorobenzene	BQL	50.0	17.9	35.8	50.0	27.8	55.6	43.2 *	30	13.2-190
1,2,4-trichlorobenzene	BQL	50.0	29.7	59.3	50.0	34.7	69.4	15.6	30	9.93-187
1,1,1-trichloroethane	BQL	50.0	41.8	83.7	50.0	42.5	85.0	1.54	30	66.9-142
1,1,2-trichloroethane	BQL	50.0	43.6	87.2	50.0	43.3	86.7	0.598	30	84.9-139
trichloroethene	BQL	50.0	46.2	92.5	50.0	48.1	96.3	4.00	30	60.7-152
trichlorofluoromethane	BQL	50.0	47.2	94.4	50.0	46.3	92.6	1.88	30	55.0-162
1,2,3-trichloropropane	BQL	50.0	38.2	76.4	50.0	37.0	74.0	3.22	30	55.1-197
1,2,4-trimethylbenzene	BQL	50.0	46.4	92.7	50.0	47.7	95.4	2.89	30	61.1-141
1,3,5-trimethylbenzene	BQL	50.0	48.4	96.9	50.0	49.8	99.6	2.81	30	61.8-138
Vinyl acetate	BQL	125	90.5	72.4	125	71.8	57.4	23.1	30	NA-NA
vinyl chloride	BQL	50.0	52.4	105	50.0	53.8	108	2.62	30	80.9-129
m/p-xylene	BQL	100	100	100	100	103	103	3.23	30	68.0-135
o-xylene	BQL	50.0	45.5	91.1	50.0	46.6	93.2	2.32	30	71.1-135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 72 outside of limits

Spike Recovery: 10 out of 144 outside of limits

COMMENTS: _____

Paradigm Analytical Laboratories, INC.

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Paradigm Analytical Laboratories, INC Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Matrix Spike - EPA Sample No.: G204-493-15B

COMPOUND	SAMPLE CONC (µg/kg)	MS SPIKE (µg/kg)	MS CONC (µg/kg)	MS % REC #	MSD SPIKE (µg/kg)	MSD CONC (µg/kg)	MSD % REC #	% RPD	QC LIMITS RPD	QC LIMITS REC
acetone	BQL	50.0	55.2	110	50.0	49.0	97.9	12.0	30	6.81-355
acrolein	BQL	500	469	93.9	500	496	99.3	5.63	30	NA-6510
acrylonitrile	BQL	500	467	93.4	500	470	94.0	0.628	30	NA-5670
benzene	BQL	50.0	46.0	91.9	50.0	45.2	90.4	1.64	30	74.8-133
bromobenzene	BQL	50.0	53.2	106	50.0	53.1	106	0.113	30	66.1-140
bromochloromethane	BQL	50.0	51.5	103	50.0	49.4	98.8	4.26	30	85.1-136
bromodichloromethane	BQL	50.0	53.2	106	50.0	49.3	98.7	7.53	30	77.4-140
bromoform	BQL	50.0	50.1	100	50.0	47.6	95.1	5.26	30	74.7-161
bromomethane	BQL	50.0	62.5	125	50.0	78.1	156 *	22.2	30	30.4-127
2-butanone	BQL	50.0	48.4	96.7	50.0	44.0	88.0	9.51	30	40.9-256
n-butylbenzene	BQL	50.0	50.5	101	50.0	48.5	97.0	3.98	30	41.2-147
sec-butylbenzene	BQL	50.0	50.2	100	50.0	48.5	96.9	3.53	30	56.7-138
tert-butylbenzene	BQL	50.0	51.9	104	50.0	51.0	102	1.83	30	60.5-142
Carbon disulfide	BQL	50.0	47.4	94.8	50.0	46.1	92.1	2.84	30	64.3-145
carbon tetrachloride	BQL	50.0	56.5	113	50.0	51.4	103	9.57	30	64.2-142
chlorobenzene	BQL	50.0	46.4	92.8	50.0	46.3	92.6	0.216	30	66.3-135
chloroethane	BQL	50.0	76.4	153	50.0	85.7	171	11.4	30	20.7-182
2-chloroethyl vinyl ether	BQL	50.0	43.6	87.3 *	50.0	42.8	85.5 *	2.08	30	0.00-0.00
chloroform	BQL	50.0	52.1	104	50.0	49.1	98.2	5.87	30	71.1-143
chloromethane	BQL	50.0	47.7	95.4	50.0	54.4	109	13.2	30	69.1-138
2-chlorotoluene	BQL	50.0	51.9	104	50.0	49.9	99.8	3.89	30	59.8-144
4-chlorotoluene	BQL	50.0	53.1	106	50.0	51.4	103	3.33	30	59.0-141
dibromochloromethane	BQL	50.0	50.9	102	50.0	48.4	96.8	5.03	30	78.1-141
1,2-dibromo-3-chloropropane	BQL	250	225	90.0	250	215	86.2	4.43	30	43.4-229
1,2-dibromomethane	BQL	50.0	48.1	96.3	50.0	45.6	91.2	5.44	30	78.3-148
dibromomethane	BQL	50.0	50.0	100	50.0	45.3	90.7	9.83	30	80.0-150
1,2-dichlorobenzene	BQL	50.0	53.4	107	50.0	50.1	100	6.47	30	57.5-148
1,3-dichlorobenzene	BQL	50.0	52.3	105	50.0	49.3	98.6	5.96	30	55.0-145
1,4-dichlorobenzene	BQL	50.0	52.3	105	50.0	49.4	98.8	5.78	30	53.4-146
trans-1,4-Dichloro-2-butene	BQL	250	246	98.5	250	222	88.8	10.3	30	48.9-211
dichlorodifluoromethane	BQL	50.0	54.6	109	50.0	57.0	114	4.43	30	81.6-130
1,1-dichloroethane	BQL	50.0	49.8	99.5	50.0	46.7	93.4	6.28	30	71.6-139
1,2-dichloroethane	BQL	50.0	56.8	114	50.0	51.1	102	10.6	30	72.9-146
1,1-dichloroethene	BQL	50.0	49.1	98.2	50.0	48.4	96.8	1.37	30	72.0-135
cis-1,2-dichloroethene	BQL	50.0	47.8	95.7	50.0	46.6	93.3	2.54	30	76.9-134
trans-1,2-dichloroethene	BQL	50.0	48.6	97.2	50.0	46.1	92.2	5.36	30	72.0-135
1,2-dichloropropane	BQL	50.0	48.1	96.3	50.0	46.6	93.1	3.34	30	76.1-136
1,3-dichloropropane	BQL	50.0	47.0	93.9	50.0	46.3	92.6	1.39	30	83.2-137
2,2-dichloropropane	BQL	50.0	53.0	106	50.0	49.7	99.4	6.37	30	58.0-150
1,1-dichloropropene	BQL	50.0	49.9	99.9	50.0	47.4	94.7	5.30	30	68.5-137
cis-1,3-dichloropropene	BQL	50.0	48.5	97.0	50.0	46.8	93.6	3.61	30	72.1-146

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 3 out of 72 outside of limits

Spike Recovery: 3 out of 144 outside of limits

COMMENTS: _____

Paradigm Analytical Laboratories, INC.

3B

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix Spike - EPA Sample No.: G204-493-15B

COMPOUND	SAMPLE CONC (µg/kg)	MS SPIKE (µg/kg)	MS CONC (µg/kg)	MS % REC #	MSD SPIKE (µg/kg)	MSD CONC (µg/kg)	MSD % REC #	% RPD	QC LIMITS RPD	QC LIMITS REC
trans-1,3-dichloropropene	BQL	50.0	51.0	102	50.0	47.3	94.7	7.56	30	72.5-152
Diisopropyl ether	BQL	50.0	46.1	92.2	50.0	46.0	92.0	0.260	30	59.9-147
ethylbenzene	BQL	50.0	50.2	100	50.0	49.1	98.2	2.16	30	68.5-135
hexachlorobutadiene	BQL	50.0	36.1	72.2	50.0	42.4	84.8	16.1	30	12.1-169
2-hexanone	BQL	50.0	47.2	94.4	50.0	44.2	88.4	6.61	30	39.9-238
Iodomethane	BQL	50.0	62.8	126	50.0	45.5	90.9	32.1 *	30	39.5-177
isopropylbenzene	BQL	50.0	49.4	98.8	50.0	48.0	96.0	2.88	30	63.7-135
4-isopropyltoluene	BQL	50.0	51.6	103	50.0	49.4	98.8	4.49	30	53.2-142
Methyl-tert-butyl ether	BQL	50.0	47.2	94.4	50.0	45.0	90.1	4.62	30	73.3-155
methylene chloride	BQL	50.0	47.1	94.2	50.0	45.0	90.0	4.54	30	54.3-156
4-methyl-2-pentanone	BQL	50.0	49.8	99.7	50.0	42.4	84.8	16.1	30	47.2-227
naphthalene	BQL	50.0	27.2	54.3	50.0	37.0	74.0	30.7 *	30	14.4-218
n-propyl benzene	BQL	50.0	51.8	104	50.0	50.5	101	2.72	30	61.7-134
styrene	BQL	50.0	46.3	92.7	50.0	45.0	90.0	2.96	30	65.7-133
1,1,1,2-tetrachloroethane	BQL	50.0	52.7	105	50.0	52.3	105	0.781	30	70.4-136
1,1,2,2-tetrachloroethane	BQL	50.0	53.1	106	50.0	49.1	98.2	7.94	30	68.8-175
tetrachloroethene	BQL	50.0	52.9	106	50.0	53.1	106	0.452	30	61.6-137
toluene	BQL	50.0	49.3	98.5	50.0	47.2	94.4	4.25	30	70.5-138
1,2,3-trichlorobenzene	BQL	50.0	22.7	45.4	50.0	38.4	76.8	51.4 *	30	13.2-190
1,2,4-trichlorobenzene	BQL	50.0	36.1	72.2	50.0	40.8	81.5	12.1	30	9.93-187
1,1,1-trichloroethane	BQL	50.0	54.4	109	50.0	50.6	101	7.23	30	66.9-142
1,1,2-trichloroethane	BQL	50.0	48.0	96.1	50.0	46.8	93.5	2.70	30	84.9-139
trichloroethene	BQL	50.0	49.6	99.1	50.0	47.8	95.6	3.59	30	60.7-152
trichlorofluoromethane	BQL	50.0	58.8	118	50.0	58.6	117	0.272	30	55.0-162
1,2,3-trichloropropane	BQL	50.0	50.1	100	50.0	45.3	90.6	10.1	30	55.1-197
1,2,4-trimethylbenzene	BQL	50.0	50.2	100	50.0	48.5	97.0	3.52	30	61.1-141
1,3,5-trimethylbenzene	BQL	50.0	51.9	104	50.0	50.4	101	2.99	30	61.8-138
Vinyl acetate	BQL	125	166	133	125	151	121	9.63	30	NA-NA
vinyl chloride	BQL	50.0	47.0	94.0	50.0	54.7	109	15.2	30	80.9-129
m/p-xylene	BQL	100	100	100	100	97.7	97.7	2.68	30	68.0-135
o-xylene	BQL	50.0	46.9	93.7	50.0	45.4	90.8	3.23	30	71.1-135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 3 out of 72 outside of limits

Spike Recovery: 3 out of 144 outside of limits

COMMENTS: _____

Paradigm Analytical Laboratories, INC.

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK1101205E

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab File ID: 1012130.D Lab Sample ID: VBLK1101205E

Date Analyzed: 10/12/05 Time Analyzed: 23:29

GC Column: DB-624 ID: 0.2 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSD1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	GP1-5	G106-559-2A	1012132.D	10/13 00:31
02	WS-2-5	G161-2180-2A	1012134.D	10/13 01:34
03	WS-2-10	G161-2180-3A	1012135.D	10/13 02:05
04	DUP-1	G161-2180-4A	1012136.D	10/13 02:37
05	WS-1-5	G161-2180-1A	1012142.D	10/13 05:47
06	G106-559-2B MS	G106-559-2B MS	1012144.D	10/13 06:49
07	G106-559-2C MSD	G106-559-2C MSD	1012145.D	10/13 07:21
08				
09				
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COMMENTS: _____

Paradigm Analytical Laboratories, INC.

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK1101205B

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab File ID: 1012106.D Lab Sample ID: VBLK1101205B

Date Analyzed: 10/12/05 Time Analyzed: 10:59

GC Column: DB-624 ID: 0.2 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSD1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	40363	G204-493-15B	1012108.D	10/12 12:01
02	TRIP BLANK	G161-2180-7A	1012120.D	10/12 18:16
03	G204-493-15B MS	G204-493-15B MS	1012122.D	10/12 19:18
04	G204-493-15C MSD	G204-493-15C MSD	1012123.D	10/12 19:50
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Paradigm Analytical Laboratories, INC.

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab File ID: 1012124.D BFB Injection Date: 10/12/05

Instrument ID: MSD1 BFB Injection Time: 20:21

GC Column: DB-624 ID: 0.2 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS
50	15.0 - 40.0% of mass 95	15.3	Y
75	30.0 - 60.0% of mass 95	41.0	Y
95	Base peak, 100% relative abundance	100.0	Y
96	5.0 - 9.0% of mass 95	6.0	Y
173	Less than 2.0% of mass 174	0.0	Y
174	50.0 - 100.0% of mass 95	61.0	Y
175	5.0 - 9.0% of mass 174	7.1	Y
176	95.0 - 101.0% of mass 174	95.7	Y
177	5.0 - 9.0% of mass 176	7.3	Y

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	QCHK050	QCHK050	1012127.D	10/12/05	21:54
02	LCS1101205D	LCS1101205D	1012128.D	10/12/05	22:26
03	VBLK1101205E	VBLK1101205E	1012130.D	10/12/05	23:29
04	GP1-5	G106-559-2A	1012132.D	10/13/05	00:31
05	WS-2-5	G161-2180-2A	1012134.D	10/13/05	01:34
06	WS-2-10	G161-2180-3A	1012135.D	10/13/05	02:05
07	DUP-1	G161-2180-4A	1012136.D	10/13/05	02:37
08	WS-1-5	G161-2180-1A	1012142.D	10/13/05	05:47
09	G106-559-2B MS	G106-559-2B MS	1012144.D	10/13/05	06:49
10	G106-559-2C MSD	G106-559-2C MSD	1012145.D	10/13/05	07:21
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Paradigm Analytical Laboratories, INC.

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab File ID: 0824101.D BFB Injection Date: 08/24/04

Instrument ID: MSD1 BFB Injection Time: 07:42

GC Column: DB-624 ID: 0.2 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS
50	15.0 - 40.0% of mass 95	16.3	Y
75	30.0 - 60.0% of mass 95	33.3	Y
95	Base peak, 100% relative abundance	100.0	Y
96	5.0 - 9.0% of mass 95	6.5	Y
173	Less than 2.0% of mass 174	0.0	Y
174	50.0 - 100.0% of mass 95	79.4	Y
175	5.0 - 9.0% of mass 174	7.0	Y
176	95.0 - 101.0% of mass 174	100.8	Y
177	5.0 - 9.0% of mass 176	6.8	Y

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ICAL005	ICAL005	0824102.D	08/24/04	08:25
02	ICAL010	ICAL010	0824103.D	08/24/04	08:56
03	ICAL020	ICAL020	0824104.D	08/24/04	09:27
04	ICAL050	ICAL050	0824105.D	08/24/04	09:58
05	ICAL100	ICAL100	0824106.D	08/24/04	10:30
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Paradigm Analytical Laboratories, INC.

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab File ID: 1012101.D BFB Injection Date: 10/12/05

Instrument ID: MSD1 BFB Injection Time: 08:23

GC Column: DB-624 ID: 0.2 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS
50	15.0 - 40.0% of mass 95	16.2	Y
75	30.0 - 60.0% of mass 95	37.3	Y
95	Base peak, 100% relative abundance	100.0	Y
96	5.0 - 9.0% of mass 95	6.5	Y
173	Less than 2.0% of mass 174	0.0	Y
174	50.0 - 100.0% of mass 95	61.9	Y
175	5.0 - 9.0% of mass 174	6.8	Y
176	95.0 - 101.0% of mass 174	96.1	Y
177	5.0 - 9.0% of mass 176	6.3	Y

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	QCHK100	QCHK100	1012102.D	10/12/05	08:54
02	LCS1101205A	LCS1101205A	1012103.D	10/12/05	09:26
03	VBLK1101205B	VBLK1101205B	1012106.D	10/12/05	10:59
04	40363	G204-493-15B	1012108.D	10/12/05	12:01
05	TRIP BLANK	G161-2180-7A	1012120.D	10/12/05	18:16
06	G204-493-15B MS	G204-493-15B MS	1012122.D	10/12/05	19:18
07	G204-493-15C MSD	G204-493-15C MSD	1012123.D	10/12/05	19:50
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Paradigm Analytical Laboratories, INC.

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD1 Calibration Date(s): 08/24/04

Heated Purge: (Y/N) Y Calibration Times: 08:25

GC Column: DB-624 ID: 0.2 (mm)

LAB FILE ID: RRF5.0 = 0824102.D RRF10.0 = 0824103.D

RRF20.0 = 0824104.D RRF50.0 = 0824105.D RRF100.0 = 0824106.D

COMPOUND	RRF 5.0	RRF 10.0	RRF 20.0	RRF 50.0	RRF 100.0	ICAL RRF	% RSD
dichlorodifluoromethane	0.287	0.268	0.309	0.303	0.349	0.303	9.96
chloromethane	0.551	0.485	0.543	0.522	0.587	0.538	6.97
vinyl chloride	0.413	0.392	0.447	0.450	0.521	0.445	11.1
bromomethane	0.269	0.210	0.184	0.126	0.148	0.187	29.9
chloroethane	0.238	0.217	0.249	0.207	0.121	0.206	24.4
trichlorofluoromethane	0.344	0.320	0.365	0.360	0.406	0.359	8.74
acrolein	0.067	0.048	0.05	0.05	0.053	0.054	14.7
1,1-dichloroethene	0.313	0.309	0.314	0.296	0.340	0.314	5.06
acetone	0.275	0.218	0.197	0.195	0.188	0.215	16.6
methylene chloride	0.324	0.293	0.290	0.271	0.322	0.300	7.52
trans-1,2-dichloroethene	0.358	0.339	0.343	0.319	0.374	0.347	6.01
acrylonitrile	0.141	0.100	0.112	0.118	0.122	0.119	12.6
1,1-dichloroethane	0.561	0.534	0.534	0.505	0.592	0.545	6.00
2,2-dichloropropane	0.339	0.322	0.319	0.308	0.358	0.329	5.88
cis-1,2-dichloroethene	0.363	0.341	0.340	0.326	0.381	0.350	6.22
2-butanone	0.470	0.404	0.380	0.384	0.366	0.401	10.2
bromochloromethane	0.128	0.125	0.120	0.113	0.128	0.123	5.20
chloroform	0.424	0.412	0.403	0.388	0.452	0.416	5.77
1,1,1-trichloroethane	0.362	0.340	0.351	0.334	0.389	0.355	6.01
carbon tetrachloride	0.258	0.246	0.257	0.248	0.293	0.260	7.28
1,1-dichloropropene	0.374	0.363	0.366	0.345	0.406	0.371	6.05
1,2-dichloroethane-d4	0.161	0.157	0.158	0.163	0.145	0.157	4.52
benzene	1.30	1.22	1.22	1.16	1.36	1.25	6.38
1,2-dichloroethane	0.266	0.245	0.245	0.236	0.269	0.252	5.78
trichloroethene	0.310	0.294	0.298	0.285	0.336	0.305	6.43
1,2-dichloropropane	0.315	0.306	0.306	0.289	0.343	0.312	6.38
dibromomethane	0.154	0.142	0.142	0.136	0.156	0.146	5.92
bromodichloromethane	0.271	0.269	0.265	0.256	0.302	0.273	6.46
2-chloroethyl vinyl ether	0.173	0.176	0.187	0.192	0.164	0.179	6.24
cis-1,3-dichloropropene	0.376	0.364	0.365	0.347	0.418	0.374	7.06
4-methyl-2-pentanone	0.992	0.870	0.832	0.819	0.830	0.869	8.23
toluene-d8	0.685	0.693	0.694	0.693	0.688	0.691	0.539
toluene	0.887	0.823	0.825	0.792	0.930	0.851	6.59
Iodomethane	0.180	0.205	0.245	0.275	0.345	0.250	25.7
trans-1,3-dichloropropene	0.294	0.275	0.280	0.275	0.319	0.289	6.50
Vinyl acetate	1.12	0.981	0.918	0.853	0.983	0.971	10.3
Carbon disulfide	1.02	0.937	0.940	0.890	1.04	0.964	6.36
1,1,2-trichloroethane	2.04	1.87	1.83	1.72	2.08	1.91	7.95
tetrachloroethene	3.40	3.19	3.17	3.03	3.69	3.30	7.77
1,3-dichloropropane	4.20	3.96	3.90	3.67	4.36	4.02	6.61

Paradigm Analytical Laboratories, INC.

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD1 Calibration Date(s): 08/24/04

Heated Purge: (Y/N) Y Calibration Times: 08:25

GC Column: DB-624 ID: 0.2 (mm)

LAB FILE ID: RRF5.0 = 0824102.D RRF10.0 = 0824103.D

RRF20.0 = 0824104.D RRF50.0 = 0824105.D RRF100.0 = 0824106.D

COMPOUND	RRF 5.0	RRF 10.0	RRF 20.0	RRF 50.0	RRF 100.0	ICAL RRF	% RSD
2-hexanone	7.61	6.61	6.32	6.22	6.46	6.64	8.43
dibromochloromethane	2.08	2.01	2.01	1.95	2.41	2.09	8.80
1,2-dibromoethane	2.54	2.38	2.36	2.23	2.64	2.43	6.60
chlorobenzene	9.27	8.94	8.85	8.26	10.3	9.12	8.22
1,1,1,2-tetrachloroethane	2.21	2.12	2.14	2.03	2.55	2.21	9.09
bromoform	1.32	1.29	1.30	1.29	1.54	1.35	8.00
4-bromofluorobenzene	3.12	3.21	3.22	3.16	3.23	3.19	1.45
bromobenzene	3.15	3.06	3.01	2.85	3.49	3.11	7.67
1,1,2,2-tetrachloroethane	3.35	3.04	3.03	2.82	3.17	3.08	6.36
1,2,3-trichloropropane	0.945	0.891	0.857	0.804	0.892	0.878	5.92
ethylbenzene	1.54	1.46	1.49	1.42	1.72	1.52	7.61
m/p-xylene	0.641	0.587	0.603	0.577	0.695	0.621	7.78
styrene	0.860	0.830	0.844	0.800	0.985	0.864	8.25
o-xylene	0.572	0.546	0.555	0.526	0.640	0.568	7.69
isopropylbenzene	1.48	1.40	1.43	1.37	1.68	1.47	8.18
n-propyl benzene	1.82	1.72	1.74	1.67	2.02	1.79	7.69
2-chlorotoluene	0.314	0.297	0.298	0.276	0.336	0.304	7.42
4-chlorotoluene	1.12	1.07	1.08	1.01	1.20	1.10	6.40
1,3,5-trimethylbenzene	1.16	1.11	1.15	1.09	1.32	1.17	7.61
tert-butylbenzene	0.993	0.925	0.945	0.897	1.08	0.968	7.42
1,2,4-trimethylbenzene	1.17	1.10	1.12	1.08	1.28	1.15	7.14
sec-butylbenzene	1.65	1.57	1.61	1.55	1.88	1.65	7.87
1,3-dichlorobenzene	0.561	0.530	0.537	0.504	0.601	0.547	6.72
4-isopropyltoluene	1.28	1.21	1.24	1.20	1.44	1.27	7.87
1,4-dichlorobenzene	0.583	0.537	0.547	0.514	0.611	0.558	6.89
1,2-dichlorobenzene	0.510	0.477	0.481	0.456	0.540	0.493	6.64
n-butylbenzene	1.25	1.17	1.23	1.17	1.42	1.25	8.06
1,2-dibromo-3-chloropropane	0.043	0.04	0.039	0.04	0.04	0.04	3.76
1,2,4-trichlorobenzene	0.357	0.341	0.340	0.322	0.392	0.350	7.49
hexachlorobutadiene	0.124	0.114	0.113	0.106	0.129	0.117	7.94
naphthalene	0.922	0.795	0.787	0.762	0.851	0.824	7.79
trans-1,4-Dichloro-2-butene	0.048	0.045	0.046	0.045	0.049	0.047	3.78
1,2,3-trichlorobenzene	0.322	0.302	0.297	0.280	0.340	0.308	7.54
MTBE	0.678	0.622	0.607	0.581	0.669	0.631	6.54
DIPE	1.43	1.31	1.30	1.24	1.54	1.36	8.83

Paradigm Analytical Laboratories, INC.

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD1 Calibration Date: 10/12/05 Time: 21:54

Lab File ID: 1012127.D Init. Calib. Date: 08/24/04

EPA Sample No.: QCHK050 Init. Calib. Time: 08:25

Heated Purge: (Y/N) Y

GC Column: DB-624 ID: 0.2 (mm)

COMPOUND	ICAL RRF	CCAL RRF	MIN RRF	%D	MAX %D
1,1,1,2-tetrachloroethane	2.50	2.342		6.2	
1,1,1-trichloroethane	0.471	0.485		-3.0	
1,1,2,2-tetrachloroethane	2.07	1.667	0.30	19.3	
1,1,2-trichloroethane	1.68	1.471		12.2	
1,1-dichloroethane	0.724	0.688	0.10	5.0	
1,1-dichloroethene	0.340	0.337		0.9	20.0
1,1-dichloropropene	0.492	0.466		5.3	
1,2,3-trichlorobenzene	0.054	0.023		57.4	
1,2,3-trichloropropane	0.510	0.433		15.1	
1,2,4-trichlorobenzene	0.165	0.094		43.0	
1,2,4-trimethylbenzene	2.68	2.291		14.5	
1,2-dibromo-3-chloropropane	0.03	0.022		26.7	
1,2-dibromoethane	1.75	1.538		12.0	
1,2-dichlorobenzene	0.766	0.642		16.2	
1,2-dichloroethane	0.306	0.292		4.6	
1,2-dichloropropane	0.372	0.333		10.5	20.0
1,3,5-trimethylbenzene	2.36	2.119		10.2	
1,3-dichlorobenzene	0.995	0.845		15.1	
1,3-dichloropropane	3.64	3.225		11.3	
1,4-dichlorobenzene	0.942	0.791		16.0	
2,2-dichloropropane	0.460	0.463		-0.7	
2-butanone	0.290	0.216		25.5	
2-chloroethyl vinyl ether	0.232	0.194		16.4	
2-chlorotoluene	0.567	0.506		10.8	
2-hexanone	4.35	3.235		25.7	
4-chlorotoluene	2.23	1.976		11.3	
4-isopropyltoluene	2.29	1.986		13.2	
4-methyl-2-pentanone	0.512	0.396		22.7	
acetone	0.217	0.173		20.3	
acrolein	0.038	0.034		10.5	
acrylonitrile	0.07	0.061		12.9	
benzene	1.47	1.335		9.4	
bromobenzene	2.77	2.508		9.6	
bromochloromethane	0.115	0.112		2.6	
bromochloropropane	1.00	1.000		0.0	
bromodichloromethane	0.317	0.302		4.7	
bromoform	1.13	0.984	0.10	12.6	
bromomethane	0.158	0.178		-12.7	
Carbon disulfide	1.18	1.115		5.7	
carbon tetrachloride	0.334	0.348		-4.2	

Paradigm Analytical Laboratories, INC.

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD1 Calibration Date: 10/12/05 Time: 21:54

Lab File ID: 1012127.D Init. Calib. Date: 08/24/04

EPA Sample No.: QCHK050 Init. Calib. Time: 08:25

Heated Purge: (Y/N) Y

GC Column: DB-624 ID: 0.2 (mm)

COMPOUND	ICAL RRF	CCAL RRF	MIN RRF	%D	MAX %D
chlorobenzene	8.383	7.570	0.30	9.7	
chloroethane	0.233	0.301		-29.2	
chloroform	0.505	0.484		4.2	20.0
chloromethane	0.463	0.525	0.10	-13.4	
cis-1,2-dichloroethene	0.379	0.349		7.9	
cis-1,3-dichloropropene	0.424	0.387		8.7	
dibromochloromethane	1.961	1.825		6.9	
dibromomethane	0.129	0.112		13.2	
dichlorodifluoromethane	0.364	0.416		-14.3	
DIPE	2.608	2.348		10.0	
ethylbenzene	3.814	3.525		7.6	20.0
fluorobenzene	1.000	1.000		0.0	
hexachlorobutadiene	0.179	0.129		27.9	
Iodomethane	0.152	0.163		-7.2	
isopropylbenzene	3.076	2.766		10.1	
m/p-xylene	1.409	1.289		8.5	
methylene chloride	0.310	0.279		10.0	
MTBE	1.296	1.114		14.0	
n-butylbenzene	2.402	2.000		16.7	
n-propyl benzene	4.151	3.680		11.3	
naphthalene	0.129	0.063		51.2	
o-xylene	1.245	1.106		11.2	
sec-butylbenzene	3.325	2.952		11.2	
styrene	1.578	1.378		12.7	
tert-butylbenzene	1.857	1.709		8.0	
tetrachloroethene	3.688	3.564		3.4	
toluene	1.198	1.115		6.9	20.0
trans-1,2-dichloroethene	0.391	0.365		6.6	
trans-1,3-dichloropropene	0.312	0.277		11.2	
trans-1,4-Dichloro-2-butene	0.073	0.059		19.2	
trichloroethene	0.379	0.363		4.2	
trichlorofluoromethane	0.391	0.463		-18.4	
Vinyl acetate	0.039	0.032		17.9	
vinyl chloride	0.548	0.617		-12.6	20.0
1,2-dichloroethane-d4	0.096	0.099		-3.1	
4-bromofluorobenzene	2.98	2.944		1.2	
toluene-d8	0.605	0.602		0.5	

Paradigm Analytical Laboratories, INC.

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD1 Calibration Date: 10/12/05 Time: 8:54

Lab File ID: 1012102.D Init. Calib. Date: 08/24/04

EPA Sample No.: QCHK100 Init. Calib. Time: 08:25

Heated Purge: (Y/N) Y

GC Column: DB-624 ID: 0.2 (mm)

COMPOUND	ICAL RRF	CCAL RRF	MIN RRF	%D	MAX %D
1,1,1,2-tetrachloroethane	2.50	2.321		7.1	
1,1,1-trichloroethane	0.471	0.459		2.5	
1,1,2,2-tetrachloroethane	2.07	2.060	0.30	0.3	
1,1,2-trichloroethane	1.68	1.647		1.7	
1,1-dichloroethane	0.724	0.689	0.10	4.8	
1,1-dichloroethene	0.340	0.327		3.8	20.0
1,1-dichloropropene	0.492	0.467		5.1	
1,2,3-trichlorobenzene	0.054	0.023		57.4	
1,2,3-trichloropropane	0.510	0.517		-1.4	
1,2,4-trichlorobenzene	0.165	0.105		36.4	
1,2,4-trimethylbenzene	2.68	2.294		14.4	
1,2-dibromo-3-chloropropane	0.03	0.025		16.7	
1,2-dibromoethane	1.75	1.716		1.8	
1,2-dichlorobenzene	0.766	0.673		12.1	
1,2-dichloroethane	0.306	0.317		-3.6	
1,2-dichloropropane	0.372	0.353		5.1	20.0
1,3,5-trimethylbenzene	2.36	2.094		11.3	
1,3-dichlorobenzene	0.995	0.877		11.9	
1,3-dichloropropane	3.64	3.566		1.9	
1,4-dichlorobenzene	0.942	0.821		12.8	
2,2-dichloropropane	0.460	0.465		-1.1	
2-butanone	0.290	0.306		-5.5	
2-chloroethyl vinyl ether	0.232	0.230		0.9	
2-chlorotoluene	0.567	0.507		10.6	
2-hexanone	4.35	4.373		-0.5	
4-chlorotoluene	2.23	2.012		9.7	
4-isopropyltoluene	2.29	1.888		17.4	
4-methyl-2-pentanone	0.512	0.540		-5.5	
acetone	0.217	0.229		-5.5	
acrolein	0.038	0.043		-13.2	
acrylonitrile	0.07	0.071		-1.4	
benzene	1.47	1.385		6.0	
bromobenzene	2.77	2.553		8.0	
bromochloromethane	0.115	0.118		-2.6	
bromochloropropane	1.00	1.000		0.0	
bromodichloromethane	0.317	0.317		0.0	
bromoform	1.13	1.123	0.10	0.3	
bromomethane	0.158	0.157		0.6	
Carbon disulfide	1.18	1.130		4.5	
carbon tetrachloride	0.334	0.321		3.9	

Paradigm Analytical Laboratories, INC.

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD1 Calibration Date: 10/12/05 Time: 8:54

Lab File ID: 1012102.D Init. Calib. Date: 08/24/04

EPA Sample No.: QCHK100 Init. Calib. Time: 08:25

Heated Purge: (Y/N) Y

GC Column: DB-624 ID: 0.2 (mm)

COMPOUND	ICAL RRF	CCAL RRF	MIN RRF	%D	MAX %D
chlorobenzene	8.383	7.709	0.30	8.0	
chloroethane	0.233	0.265		-13.7	
chloroform	0.505	0.490		3.0	20.0
chloromethane	0.463	0.470	0.10	-1.5	
cis-1,2-dichloroethene	0.379	0.364		4.0	
cis-1,3-dichloropropene	0.424	0.418		1.4	
dibromochloromethane	1.961	1.914		2.4	
dibromomethane	0.129	0.128		0.8	
dichlorodifluoromethane	0.364	0.366		-0.5	
DIPE	2.608	2.504		4.0	
ethylbenzene	3.814	3.455		9.4	20.0
fluorobenzene	1.000	1.000		0.0	
hexachlorobutadiene	0.179	0.091		49.2	
Iodomethane	0.152	0.145		4.6	
isopropylbenzene	3.076	2.699		12.3	
m/p-xylene	1.409	1.289		8.5	
methylene chloride	0.310	0.295		4.8	
MTBE	1.296	1.291		0.4	
n-butylbenzene	2.402	1.956		18.6	
n-propyl benzene	4.151	3.598		13.3	
naphthalene	0.129	0.071		45.0	
o-xylene	1.245	1.118		10.2	
sec-butylbenzene	3.325	2.784		16.3	
styrene	1.578	1.429		9.4	
tert-butylbenzene	1.857	1.596		14.1	
tetrachloroethene	3.688	3.377		8.4	
toluene	1.198	1.146		4.3	20.0
trans-1,2-dichloroethene	0.391	0.369		5.6	
trans-1,3-dichloropropene	0.312	0.316		-1.3	
trans-1,4-Dichloro-2-butene	0.073	0.074		-1.4	
trichloroethene	0.379	0.351		7.4	
trichlorofluoromethane	0.391	0.394		-0.8	
Vinyl acetate	0.039	0.052		-33.3	
vinyl chloride	0.548	0.537		2.0	20.0
1,2-dichloroethane-d4	0.096	0.107		-11.5	
4-bromofluorobenzene	2.98	2.929		1.7	
toluene-d8	0.605	0.608		-0.5	

Paradigm Analytical Laboratories, INC.

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No: SAS No.: SDG No.:

EPA Sample No.: LCS1101205C Date Analyzed: 10/12/05

Lab File ID (Standard): 1012127 D Time Analyzed: 21:54

Instrument ID: MSD1 Heated Purge: (Y/N) Y

GC Column: DB-624 ID: 0.2 (mm)

		IS1 (BCP) AREA #	RT #	IS2 (FB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
	12 HOUR STD	402910	11.99	4438959	8.78	2205216	13.81
	UPPER LIMIT	805820	12.49	8877918	9.28	4410432	14.31
	LOWER LIMIT	201455	11.49	2219480	8.28	1102608	13.31
	EPA SAMPLE						
01	WS-1-5	846662*	11.99	7542589	8.78	3827016	13.81
02	VBLK1101205E	393100	11.99	4473694	8.78	2220048	13.81
03	LCS1101205D	397814	11.99	4499924	8.78	2227379	13.82
04	G106-559-2A	531880	11.98	5118457	8.78	2815439	13.81
05	G106-559-2B MS	544809	11.99	6016941	8.78	2867976	13.82
06	G106-559-2C MSD	525294	11.98	6031040	8.78	2852721	13.81
07	WS-2-5	502378	11.98	4880750	8.78	2768805	13.81
08	WS-2-10	525183	11.98	5020275	8.78	2797798	13.81
09	DUP-1	518486	11.99	5017654	8.78	2780229	13.82
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IS1 (BCP) = Bromochloropropane
IS2 (FB) = Fluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits

Paradigm Analytical Laboratories, INC.

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No: SAS No.: SDG No.:

EPA Sample No.: QCHK100 Date Analyzed: 10/12/05

Lab File ID (Standard): 1012102.D Time Analyzed: 08:54

Instrument ID: MSD1 Heated Purge: (Y/N) Y

GC Column: DB-624 ID: 0.2 (mm)

		IS1 (BCP) AREA #	RT #	IS2 (FB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
	12 HOUR STD	469804	11.99	5007341	8.77	2559030	13.81
	UPPER LIMIT	939608	12.49	10014682	9.27	5118060	14.31
	LOWER LIMIT	234902	11.49	2503671	8.27	1279515	13.31
	EPA SAMPLE						
01	TRIP BLANK	338445	11.99	3178378	8.79	1738620	13.81
02	VBLK1101205B	468517	11.98	5209208	8.78	2579457	13.81
03	LCS1101205A	494726	11.99	5316453	8.78	2671485	13.81
04	G204-493-15B	506946	11.99	5349302	8.78	2751139	13.81
05	G204-493-15B MS	399732	12	4088209	8.79	2165692	13.83
06	G204-493-15C MSD	419640	11.98	4540375	8.78	2348711	13.81
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IS1 (BCP) = Bromochloropropane
IS2 (FB) = Fluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits

Paradigm Analytical Laboratories, INC.

LABORATORY CONTROL SAMPLE VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Paradigm Analytical Laboratories, INC.
Lab Code: NC00919 Case No.: SAS No.: SDG No:
Matrix: (soil/water) Soil Lab Sample ID: LCS1101205D
Sample wt/vol: 5 (g) Lab File ID: 1012128.D
Level: (low/med) LOW
% Moisture: not dec. 0% Date Analyzed: 10/12/05 22:26
GC Column: DB-624 ID: 0.2 (mm) Dilution Factor: 1
Soil Extract Volume: NA Soil Aliquot Volume: NA

CAS NO.	COMPOUND	SPIKE AMT (µg/kg)	SAMP CONC (µg/kg)	% REC #	QC LIMITS
67-64-1	acetone	50.0	42.4	84.8	50.8-149
107-02-8	acrolein	500	421	84.3	NA-238
107-13-1	acrylonitrile	500	420	84.1	NA-212
71-43-2	benzene	50.0	46.9	93.9	77.6-122
108-86-1	bromobenzene	50.0	51.0	102	76.3-124
74-97-5	bromochloromethane	50.0	46.4	92.7	80.5-120
75-27-4	bromodichloromethane	50.0	47.8	95.5	77.4-122
75-25-2	bromoform	50.0	44.0	88.0	81.8-118
74-83-9	bromomethane	50.0	84.2	168	31.5-168
78-93-3	2-butanone	50.0	36.6	73.2	56.5-144
104-51-8	n-butylbenzene	50.0	45.2	90.5	76.8-123
135-98-8	sec-butylbenzene	50.0	48.7	97.4	78.5-122
98-06-6	tert-butylbenzene	50.0	51.0	102	77.7-122
75-15-0	Carbon disulfide	50.0	49.0	97.9	74.3-126
56-23-5	carbon tetrachloride	50.0	53.3	106	68.0-132
108-90-7	chlorobenzene	50.0	47.5	95.0	75.3-125
75-00-3	chloroethane	50.0	91.6	183	10.0-260
110-75-8	2-chloroethyl vinyl ether	50.0	39.9	79.8	NA-1020
67-66-3	chloroform	50.0	49.1	98.3	74.7-125
74-87-3	chloromethane	50.0	58.2	116	78.6-121
95-49-8	2-chlorotoluene	50.0	49.5	99.0	77.8-122
106-43-4	4-chlorotoluene	50.0	49.0	98.1	77.2-123
124-48-1	dibromochloromethane	50.0	46.1	92.2	75.1-125
96-12-8	1,2-dibromo-3-chloropropane	250	186	74.4	67.4-133
106-93-4	1,2-dibromomethane	50.0	44.8	89.6	80.2-120
74-95-3	dibromomethane	50.0	43.2	86.4	81.0-119
95-50-1	1,2-dichlorobenzene	50.0	44.4	88.8	80.1-120
541-73-1	1,3-dichlorobenzene	50.0	45.7	91.3	78.9-121
106-46-7	1,4-dichlorobenzene	50.0	46.2	92.5	78.8-121
110-57-6	trans-1,4-Dichloro-2-butene	250	196	78.6	69.5-130
75-71-8	dichlorodifluoromethane	50.0	57.7	115	65.0-135
75-34-3	1,1-dichloroethane	50.0	48.9	97.8	74.2-126
107-06-2	1,2-dichloroethane	50.0	47.2	94.4	74.9-125
75-35-4	1,1-dichloroethene	50.0	50.3	101	78.5-121
156-59-2	cis-1,2-dichloroethene	50.0	47.0	94.0	77.6-122
156-60-5	trans-1,2-dichloroethene	50.0	49.3	98.7	78.5-121
78-87-5	1,2-dichloropropane	50.0	46.3	92.6	76.6-123
142-28-9	1,3-dichloropropane	50.0	44.9	89.8	84.9-115
594-20-7	2,2-dichloropropane	50.0	50.4	101	68.6-131
563-58-6	1,1-dichloropropene	50.0	49.1	98.2	79.3-121
10061-01-5	cis-1,3-dichloropropene	50.0	44.5	89.0	75.8-124

Paradigm Analytical Laboratories, INC.

LABORATORY CONTROL SAMPLE VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Paradigm Analytical Laboratories, INC.
Lab Code: NC00919 Case No.: SAS No.: SDG No:
Matrix: (soil/water) Soil Lab Sample ID: LCS1101205D
Sample wt/vol: 5 (g) Lab File ID: 1012128.D
Level: (low/med) LOW
% Moisture: not dec. 0% Date Analyzed: 10/12/05 22:26
GC Column: DB-624 ID: 0.2 (mm) Dilution Factor: 1
Soil Extract Volume: NA Soil Aliquot Volume: NA

CAS NO.	COMPOUND	SPIKE AMT (µg/kg)	SAMP CONC (µg/kg)	% REC #	QC LIMITS
10061-02-6	trans-1,3-dichloropropene	50.0	44.1	88.2	77.5-122
108-20-3	Diisopropyl ether	50.0	46.6	93.2	71.8-128
100-41-4	ethylbenzene	50.0	51.0	102	76.3-124
87-68-3	hexachlorobutadiene	50.0	44.9	89.7	73.5-126
591-78-6	2-hexanone	50.0	37.7	75.4	61.2-139
74-88-4	Iodomethane	50.0	44.9	89.8	37.0-163
98-82-8	isopropylbenzene	50.0	49.7	99.3	77.6-122
99-87-6	4-isopropyltoluene	50.0	47.8	95.7	78.1-122
1634-04-4	Methyl-tert-butyl ether	50.0	42.8	85.7	78.9-121
75-09-2	methylene chloride	50.0	46.1	92.2	57.9-142
108-10-1	4-methyl-2-pentanone	50.0	36.4	72.7	65.1-135
91-20-3	naphthalene	50.0	31.8	63.5*	69.3-131
103-65-1	n-propyl benzene	50.0	50.4	101	78.3-122
100-42-5	styrene	50.0	44.5	88.9	82.7-117
630-20-6	1,1,1,2-tetrachloroethane	50.0	53.1	106	73.0-127
79-34-5	1,1,2,2-tetrachloroethane	50.0	44.0	87.9	78.4-122
127-18-4	tetrachloroethene	50.0	55.6	111	73.0-127
108-88-3	toluene	50.0	47.7	95.5	75.7-124
87-61-6	1,2,3-trichlorobenzene	50.0	32.3	64.6*	76.5-124
120-82-1	1,2,4-trichlorobenzene	50.0	34.4	68.9*	74.2-126
71-55-6	1,1,1-trichloroethane	50.0	51.7	103	70.5-130
79-00-5	1,1,2-trichloroethane	50.0	45.7	91.4	84.2-116
79-01-6	trichloroethene	50.0	49.4	98.7	60.8-139
75-69-4	trichlorofluoromethane	50.0	60.4	121	10.0-232
96-18-4	1,2,3-trichloropropane	50.0	42.9	85.8	74.4-126
95-36-3	1,2,4-trimethylbenzene	50.0	46.3	92.7	77.4-122
108-67-8	1,3,5-trimethylbenzene	50.0	49.3	98.7	77.6-122
108-05-4	Vinyl acetate	125	110	88.0	NA-NA
75-01-4	vinyl chloride	50.0	57.5	115	79.6-120
108-38-3	m/p-xylene	100	101	101	78.8-121
95-47-6	o-xylene	50.0	45.8	91.6	78.7-121

Paradigm Analytical Laboratories, INC.

LABORATORY CONTROL SAMPLE VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Paradigm Analytical Laboratories, INC.
Lab Code: NC00919 Case No.: SAS No.: SDG No:
Matrix: (soil/water) Soil Lab Sample ID: LCS1101205A
Sample wt/vol: 5 (g) Lab File ID: 1012103.D
Level: (low/med) LOW
% Moisture: not dec. 0% Date Analyzed: 10/12/05 09:26
GC Column: DB-624 ID: 0.2 (mm) Dilution Factor: 1
Soil Extract Volume: NA Soil Aliquot Volume: NA

CAS NO.	COMPOUND	SPIKE AMT (µg/kg)	SAMP CONC (µg/kg)	% REC #	QC LIMITS
67-64-1	acetone	50.0	56.2	112	50.8-149
107-02-8	acrolein	500	556	111	NA-238
107-13-1	acrylonitrile	500	502	100	NA-212
71-43-2	benzene	50.0	47.7	95.4	77.6-122
108-86-1	bromobenzene	50.0	50.2	100	76.3-124
74-97-5	bromochloromethane	50.0	50.7	101	80.5-120
75-27-4	bromodichloromethane	50.0	48.2	96.5	77.4-122
75-25-2	bromoform	50.0	48.2	96.4	81.8-118
74-83-9	bromomethane	50.0	65.3	131	31.5-168
78-93-3	2-butanone	50.0	51.5	103	56.5-144
104-51-8	n-butylbenzene	50.0	44.6	89.2	76.8-123
135-98-8	sec-butylbenzene	50.0	46.5	93.0	78.5-122
98-06-6	tert-butylbenzene	50.0	47.5	95.0	77.7-122
75-15-0	Carbon disulfide	50.0	47.8	95.6	74.3-126
56-23-5	carbon tetrachloride	50.0	47.7	95.3	68.0-132
108-90-7	chlorobenzene	50.0	47.1	94.2	75.3-125
75-00-3	chloroethane	50.0	76.7	153	10.0-260
110-75-8	2-chloroethyl vinyl ether	50.0	45.2	90.4	NA-1020
67-66-3	chloroform	50.0	48.4	96.8	74.7-125
74-87-3	chloromethane	50.0	52.2	104	78.6-121
95-49-8	2-chlorotoluene	50.0	49.8	99.5	77.8-122
106-43-4	4-chlorotoluene	50.0	50.1	100	77.2-123
124-48-1	dibromochloromethane	50.0	49.0	98.0	75.1-125
96-12-8	1,2-dibromo-3-chloropropane	250	210	84.2	67.4-133
106-93-4	1,2-dibromomethane	50.0	48.3	96.6	80.2-120
74-95-3	dibromomethane	50.0	48.8	97.6	81.0-119
95-50-1	1,2-dichlorobenzene	50.0	47.6	95.3	80.1-120
541-73-1	1,3-dichlorobenzene	50.0	48.3	96.6	78.9-121
106-46-7	1,4-dichlorobenzene	50.0	47.5	94.9	78.8-121
110-57-6	trans-1,4-Dichloro-2-butene	250	248	99.4	69.5-130
75-71-8	dichlorodifluoromethane	50.0	48.9	97.9	65.0-135
75-34-3	1,1-dichloroethane	50.0	48.2	96.5	74.2-126
107-06-2	1,2-dichloroethane	50.0	49.7	99.4	74.9-125
75-35-4	1,1-dichloroethene	50.0	48.2	96.5	78.5-121
156-59-2	cis-1,2-dichloroethene	50.0	48.9	97.9	77.6-122
156-60-5	trans-1,2-dichloroethene	50.0	48.0	96.1	78.5-121
78-87-5	1,2-dichloropropane	50.0	49.0	98.0	76.6-123
142-28-9	1,3-dichloropropane	50.0	48.9	97.7	84.9-115
594-20-7	2,2-dichloropropane	50.0	50.1	100	68.6-131
563-58-6	1,1-dichloropropene	50.0	48.6	97.1	79.3-121
10061-01-5	cis-1,3-dichloropropene	50.0	49.1	98.1	75.8-124

Paradigm Analytical Laboratories, INC.

LABORATORY CONTROL SAMPLE VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Paradigm Analytical Laboratories, INC.
Lab Code: NC00919 Case No.: SAS No.: SDG No:
Matrix: (soil/water) Soil Lab Sample ID: LCS1101205A
Sample wt/vol: 5 (g) Lab File ID: 1012103.D
Level: (low/med) LOW
% Moisture: not dec. 0% Date Analyzed: 10/12/05 09:26
GC Column: DB-624 ID: 0.2 (mm) Dilution Factor: 1
Soil Extract Volume: NA Soil Aliquot Volume: NA

CAS NO.	COMPOUND	SPIKE AMT (µg/kg)	SAMP CONC (µg/kg)	% REC #	QC LIMITS
10061-02-6	trans-1,3-dichloropropene	50.0	50.4	101	77.5-122
108-20-3	Diisopropyl ether	50.0	48.7	97.5	71.8-128
100-41-4	ethylbenzene	50.0	50.5	101	76.3-124
87-68-3	hexachlorobutadiene	50.0	27.7	55.4*	73.5-126
591-78-6	2-hexanone	50.0	48.8	97.6	61.2-139
74-88-4	Iodomethane	50.0	42.5	85.0	37.0-163
98-82-8	isopropylbenzene	50.0	48.2	96.5	77.6-122
99-87-6	4-isopropyltoluene	50.0	45.6	91.3	78.1-122
1634-04-4	Methyl-tert-butyl ether	50.0	49.5	99.1	78.9-121
75-09-2	methylene chloride	50.0	48.0	96.0	57.9-142
108-10-1	4-methyl-2-pentanone	50.0	51.0	102	65.1-135
91-20-3	naphthalene	50.0	33.1	66.1*	69.3-131
103-65-1	n-propyl benzene	50.0	49.9	99.8	78.3-122
100-42-5	styrene	50.0	47.0	94.0	82.7-117
630-20-6	1,1,1,2-tetrachloroethane	50.0	50.9	102	73.0-127
79-34-5	1,1,2,2-tetrachloroethane	50.0	54.7	109	78.4-122
127-18-4	tetrachloroethene	50.0	50.7	101	73.0-127
108-88-3	toluene	50.0	48.6	97.2	75.7-124
87-61-6	1,2,3-trichlorobenzene	50.0	27.9	55.8*	76.5-124
120-82-1	1,2,4-trichlorobenzene	50.0	34.4	68.7*	74.2-126
71-55-6	1,1,1-trichloroethane	50.0	47.9	95.9	70.5-130
79-00-5	1,1,2-trichloroethane	50.0	49.5	98.9	84.2-116
79-01-6	trichloroethene	50.0	46.7	93.4	60.8-139
75-69-4	trichlorofluoromethane	50.0	49.8	99.5	10.0-232
96-18-4	1,2,3-trichloropropane	50.0	50.1	100	74.4-126
95-36-3	1,2,4-trimethylbenzene	50.0	47.1	94.1	77.4-122
108-67-8	1,3,5-trimethylbenzene	50.0	49.4	98.8	77.6-122
108-05-4	Vinyl acetate	125	219	176	NA-NA
75-01-4	vinyl chloride	50.0	50.8	102	79.6-120
108-38-3	m/p-xylene	100	102	102	78.8-121
95-47-6	o-xylene	50.0	47.0	94.0	78.7-121

Results for Laboratory Control Spike (LCS)
by GC/MS 8260/5035

Lab Sample ID: lcs1101205a
Analyst: JTF
Batch ID: 1101205

Date Analyzed: 12 Oct 2005 9:26 am
Matrix: Soil

compound	Spiked (µg/Kg)	Amount recovered	LCS (%)	Limits Lower (%)	Limits Upper (%)
benzene	50	47.69	95.4	77.6	122
chlorobenzene	50	47.11	94.2	75.3	125
1,1-dichloroethene	50	48.24	96.5	78.5	121
toluene	50	48.58	97.2	75.7	124
trichloroethene	50	46.73	93.5	60.8	139

Comments: Concentration values are on column amount.

Flags: * = Out of limits.
NA = Not applicable
NS = Not spiked

Reviewed by: _____

VO39.072303.1

Paradigm Analytical Laboratories, INC.

LABORATORY CONTROL SAMPLE VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Paradigm Analytical Laboratories, INC.
Lab Code: NC00919 Case No.: SAS No.: SDG No:
Matrix: (soil/water) Soil 5035 Lab Sample ID: LCS1101205a
Sample wt/vol: 5.00 (g) Lab File ID: 1012103.D
Level: (low/med) low
% Moisture: not dec. 0% Date Analyzed: 2005-10-12 09:26
GC Column: DB-624 ID: 0.2 (mm) Dilution Factor: 1
Soil Extract Volume: NA Soil Aliquot Volume: NA

CAS NO.	COMPOUND	SPIKE AMT (µg/kg)	SAMP CONC (µg/kg)	% REC #	QC LIMITS
67-64-1	acetone	50.0	56.2	112	50.8-149
107-02-8	acrolein	500	556	111	NA-238
107-13-1	acrylonitrile	500	502	100	NA-212
71-43-2	benzene	50.0	47.7	95.4	77.6-122
108-86-1	bromobenzene	50.0	50.2	100	76.3-124
74-97-5	bromochloromethane	50.0	50.7	101	80.5-120
75-27-4	bromodichloromethane	50.0	48.2	96.5	77.4-122
75-25-2	bromoform	50.0	48.2	96.4	81.8-118
74-83-9	bromomethane	50.0	65.3	131	31.5-168
78-93-3	2-butanone	50.0	51.5	103	56.5-144
104-51-8	n-butylbenzene	50.0	44.6	89.2	76.8-123
135-98-8	sec-butylbenzene	50.0	46.5	93.0	78.5-122
98-06-6	tert-butylbenzene	50.0	47.5	95.0	77.7-122
75-15-0	Carbon disulfide	50.0	47.8	95.6	74.3-126
56-23-5	carbon tetrachloride	50.0	47.7	95.3	68.0-132
108-90-7	chlorobenzene	50.0	47.1	94.2	75.3-125
75-00-3	chloroethane	50.0	76.7	153	10.0-260
110-75-8	2-chloroethyl vinyl ether	50.0	45.2	90.4	NA-1020
67-66-3	chloroform	50.0	48.4	96.8	74.7-125
74-87-3	chloromethane	50.0	52.2	104	78.6-121
95-49-8	2-chlorotoluene	50.0	49.8	99.5	77.8-122
106-43-4	4-chlorotoluene	50.0	50.1	100	77.2-123
124-48-1	dibromochloromethane	50.0	49.0	98.0	75.1-125
96-12-8	1,2-dibromo-3-chloropropane	250	210	84.2	67.4-133
106-93-4	1,2-dibromomethane	50.0	48.3	96.6	80.2-120
74-95-3	dibromomethane	50.0	48.8	97.6	81.0-119
95-50-1	1,2-dichlorobenzene	50.0	47.6	95.3	80.1-120
541-73-1	1,3-dichlorobenzene	50.0	48.3	96.6	78.9-121
106-46-7	1,4-dichlorobenzene	50.0	47.5	94.9	78.8-121
110-57-6	trans-1,4-Dichloro-2-butene	250	248	99.4	69.5-130
75-71-8	dichlorodifluoromethane	50.0	48.9	97.9	65.0-135
75-34-3	1,1-dichloroethane	50.0	48.2	96.5	74.2-126
107-06-2	1,2-dichloroethane	50.0	49.7	99.4	74.9-125
75-35-4	1,1-dichloroethene	50.0	48.2	96.5	78.5-121
156-59-2	cis-1,2-dichloroethene	50.0	48.9	97.9	77.6-122
156-60-5	trans-1,2-dichloroethene	50.0	48.0	96.1	78.5-121
78-87-5	1,2-dichloropropane	50.0	49.0	98.0	76.6-123
142-28-9	1,3-dichloropropane	50.0	48.9	97.7	84.9-115
594-20-7	2,2-dichloropropane	50.0	50.1	100	68.6-131
563-58-6	1,1-dichloropropene	50.0	48.6	97.1	79.3-121
10061-01-5	cis-1,3-dichloropropene	50.0	49.1	98.1	75.8-124

Paradigm Analytical Laboratories, INC.

Lab Name: Paradigm Analytical Laboratories, INC.
Lab Code: NC00919 Case No.: SAS No.: SDG No:
Matrix: (soil/water) Soil Lab Sample ID: LCS1101205a
Sample wt/vol: 5.00 (g) Lab File ID: 1012103.D
Level: (low/med) low
% Moisture: not dec. 0% Date Analyzed: 2005-10-12 09:26
GC Column: DB-624 ID: 0.2 (mm) Dilution Factor: 1
Soil Extract Volume: NA Soil Aliquot Volume: NA

CAS NO.	COMPOUND	SPIKE AMT (µg/kg)	SAMP CONC (µg/kg)	% REC #	QC LIMITS
10061-02-6	trans-1,3-dichloropropene	50.0	50.4	101	77.5-122
108-20-3	Diisopropyl ether	50.0	48.7	97.5	71.8-128
100-41-4	ethylbenzene	50.0	50.5	101	76.3-124
87-68-3	hexachlorobutadiene	50.0	27.7	55.4*	73.5-126
591-78-6	2-hexanone	50.0	48.8	97.6	61.2-139
74-88-4	Iodomethane	50.0	42.5	85.0	37.0-163
98-82-8	isopropylbenzene	50.0	48.2	96.5	77.6-122
99-87-6	4-isopropyltoluene	50.0	45.6	91.3	78.1-122
1634-04-4	Methyl-tert-butyl ether	50.0	49.5	99.1	78.9-121
75-09-2	methylene chloride	50.0	48.0	96.0	57.9-142
108-10-1	4-methyl-2-pentanone	50.0	51.0	102	65.1-135
91-20-3	naphthalene	50.0	33.1	66.1*	69.3-131
103-65-1	n-propyl benzene	50.0	49.9	99.8	78.3-122
100-42-5	styrene	50.0	47.0	94.0	82.7-117
630-20-6	1,1,1,2-tetrachloroethane	50.0	50.9	102	73.0-127
79-34-5	1,1,2,2-tetrachloroethane	50.0	54.7	109	78.4-122
127-18-4	tetrachloroethene	50.0	50.7	101	73.0-127
108-88-3	toluene	50.0	48.6	97.2	75.7-124
87-61-6	1,2,3-trichlorobenzene	50.0	27.9	55.8*	76.5-124
120-82-1	1,2,4-trichlorobenzene	50.0	34.4	68.7*	74.2-126
71-55-6	1,1,1-trichloroethane	50.0	47.9	95.9	70.5-130
79-00-5	1,1,2-trichloroethane	50.0	49.5	98.9	84.2-116
79-01-6	trichloroethene	50.0	46.7	93.4	60.8-139
75-69-4	trichlorofluoromethane	50.0	49.8	99.5	10.0-232
96-18-4	1,2,3-trichloropropane	50.0	50.1	100	74.4-126
95-36-3	1,2,4-trimethylbenzene	50.0	47.1	94.1	77.4-122
108-67-8	1,3,5-trimethylbenzene	50.0	49.4	98.8	77.6-122
108-05-4	Vinyl acetate	125	219	176	NA-NA
75-01-4	vinyl chloride	50.0	50.8	102	79.6-120
108-38-3	m/p-xylene	100	102	102	78.8-121
95-47-6	o-xylene	50.0	47.0	94.0	78.7-121

System Monitoring Compound Results for LCS1101205a		Spike Added (µg/kg)	Spike Result (µg/kg)	Percent Rec. (%)	Percent Recovery (%)
460-00-4	4-Bromofluorobenzene	50	20.0	20.0	9.07 - 150.69
17060-07-0	1,2-Dichloroethane-d4	50	105	105	7.83 - 170.36
2037-26-5	Toluene-d8	50	10.0	10.0	8.81 - 143.85

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID VBLK1101205B
Lab Project ID:
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected:
Date Received:
Matrix: Soil
%Solids: 100.0

Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	50.0	1	10/12/2005
Benzene	BQL	5.00	1	10/12/2005
Bromobenzene	BQL	5.00	1	10/12/2005
Bromochloromethane	BQL	5.00	1	10/12/2005
Bromodichloromethane	BQL	5.00	1	10/12/2005
Bromoform	BQL	5.00	1	10/12/2005
Bromomethane	BQL	5.00	1	10/12/2005
2-Butanone	BQL	25.0	1	10/12/2005
n-Butylbenzene	BQL	5.00	1	10/12/2005
sec-Butylbenzene	BQL	5.00	1	10/12/2005
tert-Butylbenzene	BQL	5.00	1	10/12/2005
Carbon disulfide	BQL	5.00	1	10/12/2005
Carbon tetrachloride	BQL	5.00	1	10/12/2005
Chlorobenzene	BQL	5.00	1	10/12/2005
Chloroethane	BQL	5.00	1	10/12/2005
Chloroform	BQL	5.00	1	10/12/2005
Chloromethane	BQL	5.00	1	10/12/2005
2-Chlorotoluene	BQL	5.00	1	10/12/2005
4-Chlorotoluene	BQL	5.00	1	10/12/2005
Dibromochloromethane	BQL	5.00	1	10/12/2005
1,2-Dibromo-3-chloropropane	BQL	5.00	1	10/12/2005
Dibromomethane	BQL	5.00	1	10/12/2005
1,2-Dibromoethane (EDB)	BQL	5.00	1	10/12/2005
1,2-Dichlorobenzene	BQL	5.00	1	10/12/2005
1,3-Dichlorobenzene	BQL	5.00	1	10/12/2005
1,4-Dichlorobenzene	BQL	5.00	1	10/12/2005
trans-1,4-Dichloro-2-butene	BQL	5.00	1	10/12/2005
1,1-Dichloroethane	BQL	5.00	1	10/12/2005
1,1-Dichloroethene	BQL	5.00	1	10/12/2005
1,2-Dichloroethane	BQL	5.00	1	10/12/2005
cis-1,2-Dichloroethene	BQL	5.00	1	10/12/2005
trans-1,2-dichloroethene	BQL	5.00	1	10/12/2005
1,2-Dichloropropane	BQL	5.00	1	10/12/2005
1,3-Dichloropropane	BQL	5.00	1	10/12/2005
2,2-Dichloropropane	BQL	5.00	1	10/12/2005
1,1-Dichloropropene	BQL	5.00	1	10/12/2005
cis-1,3-Dichloropropene	BQL	5.00	1	10/12/2005
trans-1,3-Dichloropropene	BQL	5.00	1	10/12/2005
Dichlorodifluoromethane	BQL	5.00	1	10/12/2005
Diisopropyl ether (DIPE)	BQL	5.00	1	10/12/2005
Ethylbenzene	BQL	5.00	1	10/12/2005
Hexachlorobutadiene	BQL	5.00	1	10/12/2005
2-Hexanone	BQL	5.00	1	10/12/2005
Iodomethane	BQL	5.00	1	10/12/2005

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID VBLK1101205B
Lab Project ID:
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected:
Date Received:
Matrix: Soil
%Solids: 100.0

Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	5.00	1	10/12/2005
4-Isopropyltoluene	BQL	5.00	1	10/12/2005
Methylene chloride	BQL	20.0	1	10/12/2005
4-Methyl-2-pentanone	BQL	5.00	1	10/12/2005
Methyl-tert-butyl ether (MTBE)	BQL	5.00	1	10/12/2005
Naphthalene	BQL	5.00	1	10/12/2005
n-Propyl benzene	BQL	5.00	1	10/12/2005
Styrene	BQL	5.00	1	10/12/2005
1,1,1,2-Tetrachloroethane	BQL	5.00	1	10/12/2005
1,1,2,2-Tetrachloroethane	BQL	5.00	1	10/12/2005
Tetrachloroethene	BQL	5.00	1	10/12/2005
Toluene	BQL	5.00	1	10/12/2005
1,2,3-Trichlorobenzene	BQL	5.00	1	10/12/2005
1,2,4-Trichlorobenzene	BQL	5.00	1	10/12/2005
Trichloroethene	BQL	5.00	1	10/12/2005
1,1,1-Trichloroethane	BQL	5.00	1	10/12/2005
1,1,2-Trichloroethane	BQL	5.00	1	10/12/2005
Trichlorofluoromethane	BQL	5.00	1	10/12/2005
1,2,3-Trichloropropane	BQL	5.00	1	10/12/2005
1,2,4-Trimethylbenzene	BQL	5.00	1	10/12/2005
1,3,5-Trimethylbenzene	BQL	5.00	1	10/12/2005
Vinyl chloride	BQL	5.00	1	10/12/2005
m-,p-Xylene	BQL	10.0	1	10/12/2005
o-Xylene	BQL	5.00	1	10/12/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	50	47.6	95
1,2-Dichloroethane-d4	50	53.1	106
Toluene-d8	50	48.9	98

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

Paradigm Analytical Laboratories, INC.

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Paradigm Analytical Laboratories, INC. Inst: MSD1 Batch ID: 1101205

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Matrix Spike - EPA Sample No.: G204-493-15B Matrix: Soil Diln: 1

COMPOUND	SAMPLE CONC (µg/kg)	MS SPIKE (µg/kg)	MS CONC (µg/kg)	MS % REC #	MSD SPIKE (µg/kg)	MSD CONC (µg/kg)	MSD % REC #	% RPD	QC LIMITS RPD	QC LIMITS REC
acetone	BQL	50.0	55.2	110	50.0	49.0	97.9	12.0	30	6.81-355
acrolein	BQL	500	469	93.9	500	496	99.3	5.63	30	NA-6510
acrylonitrile	BQL	500	467	93.4	500	470	94.0	0.628	30	NA-5670
benzene	BQL	50.0	46.0	91.9	50.0	45.2	90.4	1.64	30	74.8-133
bromobenzene	BQL	50.0	53.2	106	50.0	53.1	106	0.113	30	66.1-140
bromochloromethane	BQL	50.0	51.5	103	50.0	49.4	98.8	4.26	30	85.1-136
bromodichloromethane	BQL	50.0	53.2	106	50.0	49.3	98.7	7.53	30	77.4-140
bromoform	BQL	50.0	50.1	100	50.0	47.6	95.1	5.26	30	74.7-161
bromomethane	BQL	50.0	62.5	125	50.0	78.1	156*	22.2	30	30.4-127
2-butanone	BQL	50.0	48.4	96.7	50.0	44.0	88.0	9.51	30	40.9-256
n-butylbenzene	BQL	50.0	50.5	101	50.0	48.5	97.0	3.98	30	41.2-147
sec-butylbenzene	BQL	50.0	50.2	100	50.0	48.5	96.9	3.53	30	56.7-138
tert-butylbenzene	BQL	50.0	51.9	104	50.0	51.0	102	1.83	30	60.5-142
Carbon disulfide	BQL	50.0	47.4	94.8	50.0	46.1	92.1	2.84	30	64.3-145
carbon tetrachloride	BQL	50.0	56.5	113	50.0	51.4	103	9.57	30	64.2-142
chlorobenzene	BQL	50.0	46.4	92.8	50.0	46.3	92.6	0.216	30	66.3-135
chloroethane	BQL	50.0	76.4	153	50.0	85.7	171	11.4	30	20.7-182
2-chloroethyl vinyl ether	BQL	50.0	43.6	87.3*	50.0	42.8	85.5*	2.08	30	0.00-0.00
chloroform	BQL	50.0	52.1	104	50.0	49.1	98.2	5.87	30	71.1-143
chloromethane	BQL	50.0	47.7	95.4	50.0	54.4	109	13.2	30	69.1-138
2-chlorotoluene	BQL	50.0	51.9	104	50.0	49.9	99.8	3.89	30	59.8-144
4-chlorotoluene	BQL	50.0	53.1	106	50.0	51.4	103	3.33	30	59.0-141
dibromochloromethane	BQL	50.0	50.9	102	50.0	48.4	96.8	5.03	30	78.1-141
1,2-dibromo-3-chloropropane	BQL	250	225	90.0	250	215	86.2	4.43	30	43.4-229
1,2-dibromomethane	BQL	50.0	48.1	96.3	50.0	45.6	91.2	5.44	30	78.3-148
dibromomethane	BQL	50.0	50.0	100	50.0	45.3	90.7	9.83	30	80.0-150
1,2-dichlorobenzene	BQL	50.0	53.4	107	50.0	50.1	100	6.47	30	57.5-148
1,3-dichlorobenzene	BQL	50.0	52.3	105	50.0	49.3	98.6	5.96	30	55.0-145
1,4-dichlorobenzene	BQL	50.0	52.3	105	50.0	49.4	98.8	5.78	30	53.4-146
trans-1,4-Dichloro-2-butene	BQL	250	246	98.5	250	222	88.8	10.3	30	48.9-211
dichlorodifluoromethane	BQL	50.0	54.6	109	50.0	57.0	114	4.43	30	81.6-130
1,1-dichloroethane	BQL	50.0	49.8	99.5	50.0	46.7	93.4	6.28	30	71.6-139
1,2-dichloroethane	BQL	50.0	56.8	114	50.0	51.1	102	10.6	30	72.9-146
1,1-dichloroethene	BQL	50.0	49.1	98.2	50.0	48.4	96.8	1.37	30	72.0-135
cis-1,2-dichloroethene	BQL	50.0	47.8	95.7	50.0	46.6	93.3	2.54	30	76.9-134
trans-1,2-dichloroethene	BQL	50.0	48.6	97.2	50.0	46.1	92.2	5.36	30	72.0-135
1,2-dichloropropane	BQL	50.0	48.1	96.3	50.0	46.6	93.1	3.34	30	76.1-136
1,3-dichloropropane	BQL	50.0	47.0	93.9	50.0	46.3	92.6	1.39	30	83.2-137
2,2-dichloropropane	BQL	50.0	53.0	106	50.0	49.7	99.4	6.37	30	58.0-150
1,1-dichloropropene	BQL	50.0	49.9	99.9	50.0	47.4	94.7	5.30	30	68.5-137
cis-1,3-dichloropropene	BQL	50.0	48.5	97.0	50.0	46.8	93.6	3.61	30	72.1-146

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 3 out of 72 outside of limits

Spike Recovery: 3 out of 144 outside of limits

COMMENTS: _____

Paradigm Analytical Laboratories, INC.

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Matrix Spike - EPA Sample No : G204-493-15B

COMPOUND	SAMPLE CONC (µg/kg)	MS SPIKE (µg/kg)	MS CONC (µg/kg)	MS % REC #	MSD SPIKE (µg/kg)	MSD CONC (µg/kg)	MSD % REC #	% RPD	QC LIMITS RPD	QC LIMITS REC
trans-1,3-dichloropropene	BQL	50.0	51.0	102	50.0	47.3	94.7	7.56	30	72.5-152
Diisopropyl ether	BQL	50.0	46.1	92.2	50.0	46.0	92.0	0.260	30	59.9-147
ethylbenzene	BQL	50.0	50.2	100	50.0	49.1	98.2	2.16	30	68.5-135
hexachlorobutadiene	BQL	50.0	36.1	72.2	50.0	42.4	84.8	16.1	30	12.1-169
2-hexanone	BQL	50.0	47.2	94.4	50.0	44.2	88.4	6.61	30	39.9-238
Iodomethane	BQL	50.0	62.8	126	50.0	45.5	90.9	32.1*	30	39.5-177
isopropylbenzene	BQL	50.0	49.4	98.8	50.0	48.0	96.0	2.88	30	63.7-135
4-isopropyltoluene	BQL	50.0	51.6	103	50.0	49.4	98.8	4.49	30	53.2-142
Methyl-tert-butyl ether	BQL	50.0	47.2	94.4	50.0	45.0	90.1	4.62	30	73.3-155
methylene chloride	BQL	50.0	47.1	94.2	50.0	45.0	90.0	4.54	30	54.3-156
4-methyl-2-pentanone	BQL	50.0	49.8	99.7	50.0	42.4	84.8	16.1	30	47.2-227
naphthalene	BQL	50.0	27.2	54.3	50.0	37.0	74.0	30.7*	30	14.4-218
n-propyl benzene	BQL	50.0	51.8	104	50.0	50.5	101	2.72	30	61.7-134
styrene	BQL	50.0	46.3	92.7	50.0	45.0	90.0	2.96	30	65.7-133
1,1,1,2-tetrachloroethane	BQL	50.0	52.7	105	50.0	52.3	105	0.781	30	70.4-136
1,1,2,2-tetrachloroethane	BQL	50.0	53.1	106	50.0	49.1	98.2	7.94	30	68.8-175
tetrachloroethene	BQL	50.0	52.9	106	50.0	53.1	106	0.452	30	61.6-137
toluene	BQL	50.0	49.3	98.5	50.0	47.2	94.4	4.25	30	70.5-138
1,2,3-trichlorobenzene	BQL	50.0	22.7	45.4	50.0	38.4	76.8	51.4*	30	13.2-190
1,2,4-trichlorobenzene	BQL	50.0	36.1	72.2	50.0	40.8	81.5	12.1	30	9.93-187
1,1,1-trichloroethane	BQL	50.0	54.4	109	50.0	50.6	101	7.23	30	66.9-142
1,1,2-trichloroethane	BQL	50.0	48.0	96.1	50.0	46.8	93.5	2.70	30	84.9-139
trichloroethene	BQL	50.0	49.6	99.1	50.0	47.8	95.6	3.59	30	60.7-152
trichlorofluoromethane	BQL	50.0	58.8	118	50.0	58.6	117	0.272	30	55.0-162
1,2,3-trichloropropane	BQL	50.0	50.1	100	50.0	45.3	90.6	10.1	30	55.1-197
1,2,4-trimethylbenzene	BQL	50.0	50.2	100	50.0	48.5	97.0	3.52	30	61.1-141
1,3,5-trimethylbenzene	BQL	50.0	51.9	104	50.0	50.4	101	2.99	30	61.8-138
Vinyl acetate	BQL	125	166	133	125	151	121	9.63	30	NA-NA
vinyl chloride	BQL	50.0	47.0	94.0	50.0	54.7	109	15.2	30	80.9-129
m/p-xylene	BQL	100	100	100	100	97.7	97.7	2.68	30	68.0-135
o-xylene	BQL	50.0	46.9	93.7	50.0	45.4	90.8	3.23	30	71.1-135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 3 out of 72 outside of limits

Spike Recovery: 3 out of 144 outside of limits

COMMENTS: _____

Results for MS/MSD
by GC/MS 8260/5035

Client Project ID: Batch QC
Lab Sample ID: g204-493-15b
Batch ID: 1101205

Date Analyzed: 12 Oct 2005 7:18 pm
Matrix: Soil
Analyzed By: JTF

Compound	Unspiked Sample ug/L	Spike conc. ug/L	Recovered MS %	Recovered MSD %	Limits Lower %	Limits Upper %	RPD %	RPD Limit %
benzene	BQL	100	92.8	91.3	74.8	133	1.6	30
chlorobenzene	BQL	100	92.9	92.7	66.3	135	0.2	30
1,1-dichloroethene	BQL	100	98.2	96.8	72.0	135	1.4	30
toluene	BQL	100	98.6	94.5	70.5	138	4.2	30
trichloroethene	BQL	100	99.1	95.6	60.7	152	3.6	30

Comments:

Concentrations are on column amounts.
Concentration Units: ug/L

Flags:

* = Out of limits
NA = Not applicable
BQL = Below quantitation limit.

Reviewed By:

VO41.072303.1

Paradigm Analytical Laboratories, INC.

LABORATORY CONTROL SAMPLE VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Paradigm Analytical Laboratories, INC.
Lab Code: NC00919 Case No.: SAS No.: SDG No:
Matrix: (soil/water) Soil 5035 Lab Sample ID: LCS1101205d
Sample wt/vol: 5.00 (g) Lab File ID: 1012128.D
Level: (low/med) low
% Moisture: not dec. 0% Date Analyzed: 2005-10-12 22:26
GC Column: DB-624 ID: 0.2 (mm) Dilution Factor: 1
Soil Extract Volume: NA Soil Aliquot Volume: NA

CAS NO.	COMPOUND	SPIKE AMT (µg/kg)	SAMP CONC (µg/kg)	% REC #	QC LIMITS
67-64-1	acetone	50.0	42.4	84.8	50.8-149
107-02-8	acrolein	500	421	84.3	NA-238
107-13-1	acrylonitrile	500	420	84.1	NA-212
71-43-2	benzene	50.0	46.9	93.9	77.6-122
108-86-1	bromobenzene	50.0	51.0	102	76.3-124
74-97-5	bromochloromethane	50.0	46.4	92.7	80.5-120
75-27-4	bromodichloromethane	50.0	47.8	95.5	77.4-122
75-25-2	bromoform	50.0	44.0	88.0	81.8-118
74-83-9	bromomethane	50.0	84.2	168	31.5-168
78-93-3	2-butanone	50.0	36.6	73.2	56.5-144
104-51-8	n-butylbenzene	50.0	45.2	90.5	76.8-123
135-98-8	sec-butylbenzene	50.0	48.7	97.4	78.5-122
98-06-6	tert-butylbenzene	50.0	51.0	102	77.7-122
75-15-0	Carbon disulfide	50.0	49.0	97.9	74.3-126
56-23-5	carbon tetrachloride	50.0	53.3	106	68.0-132
108-90-7	chlorobenzene	50.0	47.5	95.0	75.3-125
75-00-3	chloroethane	50.0	91.6	183	10.0-260
110-75-8	2-chloroethyl vinyl ether	50.0	39.9	79.8	NA-1020
67-66-3	chloroform	50.0	49.1	98.3	74.7-125
74-87-3	chloromethane	50.0	58.2	116	78.6-121
95-49-8	2-chlorotoluene	50.0	49.5	99.0	77.8-122
106-43-4	4-chlorotoluene	50.0	49.0	98.1	77.2-123
124-48-1	dibromochloromethane	50.0	46.1	92.2	75.1-125
96-12-8	1,2-dibromo-3-chloropropane	250	186	74.4	67.4-133
106-93-4	1,2-dibromomethane	50.0	44.8	89.6	80.2-120
74-95-3	dibromomethane	50.0	43.2	86.4	81.0-119
95-50-1	1,2-dichlorobenzene	50.0	44.4	88.8	80.1-120
541-73-1	1,3-dichlorobenzene	50.0	45.7	91.3	78.9-121
106-46-7	1,4-dichlorobenzene	50.0	46.2	92.5	78.8-121
110-57-6	trans-1,4-Dichloro-2-butene	250	196	78.6	69.5-130
75-71-8	dichlorodifluoromethane	50.0	57.7	115	65.0-135
75-34-3	1,1-dichloroethane	50.0	48.9	97.8	74.2-126
107-06-2	1,2-dichloroethane	50.0	47.2	94.4	74.9-125
75-35-4	1,1-dichloroethene	50.0	50.3	101	78.5-121
156-59-2	cis-1,2-dichloroethene	50.0	47.0	94.0	77.6-122
156-60-5	trans-1,2-dichloroethene	50.0	49.3	98.7	78.5-121
78-87-5	1,2-dichloropropane	50.0	46.3	92.6	76.6-123
142-28-9	1,3-dichloropropane	50.0	44.9	89.8	84.9-115
594-20-7	2,2-dichloropropane	50.0	50.4	101	68.6-131
563-58-6	1,1-dichloropropene	50.0	49.1	98.2	79.3-121
10061-01-5	cis-1,3-dichloropropene	50.0	44.5	89.0	75.8-124

Paradigm Analytical Laboratories, INC.

Lab Name: Paradigm Analytical Laboratories, INC.
Lab Code: NC00919 Case No.: SAS No.: SDG No:
Matrix: (soil/water) Soil Lab Sample ID: LCS1101205d
Sample wt/vol: 5.00 (g) Lab File ID: 1012128.D
Level: (low/med) low
% Moisture: not dec. 0% Date Analyzed: 2005-10-12 22:26
GC Column: DB-624 ID: 0.2 (mm) Dilution Factor: 1
Soil Extract Volume: NA Soil Aliquot Volume: NA

CAS NO.	COMPOUND	SPIKE AMT (µg/kg)	SAMP CONC (µg/kg)	% REC #	QC LIMITS
10061-02-6	trans-1,3-dichloropropene	50.0	44.1	88.2	77.5-122
108-20-3	Diisopropyl ether	50.0	46.6	93.2	71.8-128
100-41-4	ethylbenzene	50.0	51.0	102	76.3-124
87-68-3	hexachlorobutadiene	50.0	44.9	89.7	73.5-126
591-78-6	2-hexanone	50.0	37.7	75.4	61.2-139
74-88-4	Iodomethane	50.0	44.9	89.8	37.0-163
98-82-8	isopropylbenzene	50.0	49.7	99.3	77.6-122
99-87-6	4-isopropyltoluene	50.0	47.8	95.7	78.1-122
1634-04-4	Methyl-tert-butyl ether	50.0	42.8	85.7	78.9-121
75-09-2	methylene chloride	50.0	46.1	92.2	57.9-142
108-10-1	4-methyl-2-pentanone	50.0	36.4	72.7	65.1-135
91-20-3	naphthalene	50.0	31.8	63.5*	69.3-131
103-65-1	n-propyl benzene	50.0	50.4	101	78.3-122
100-42-5	styrene	50.0	44.5	88.9	82.7-117
630-20-6	1,1,1,2-tetrachloroethane	50.0	53.1	106	73.0-127
79-34-5	1,1,2,2-tetrachloroethane	50.0	44.0	87.9	78.4-122
127-18-4	tetrachloroethene	50.0	55.6	111	73.0-127
108-88-3	toluene	50.0	47.7	95.5	75.7-124
87-61-6	1,2,3-trichlorobenzene	50.0	32.3	64.6*	76.5-124
120-82-1	1,2,4-trichlorobenzene	50.0	34.4	68.9*	74.2-126
71-55-6	1,1,1-trichloroethane	50.0	51.7	103	70.5-130
79-00-5	1,1,2-trichloroethane	50.0	45.7	91.4	84.2-116
79-01-6	trichloroethene	50.0	49.4	98.7	60.8-139
75-69-4	trichlorofluoromethane	50.0	60.4	121	10.0-232
96-18-4	1,2,3-trichloropropane	50.0	42.9	85.8	74.4-126
95-36-3	1,2,4-trimethylbenzene	50.0	46.3	92.7	77.4-122
108-67-8	1,3,5-trimethylbenzene	50.0	49.3	98.7	77.6-122
108-05-4	Vinyl acetate	125	110	88.0	NA-NA
75-01-4	vinyl chloride	50.0	57.5	115	79.6-120
108-38-3	m/p-xylene	100	101	101	78.8-121
95-47-6	o-xylene	50.0	45.8	91.6	78.7-121

System Monitoring Compound Results for LCS1101205d		Spike Added (µg/kg)	Spike Result (µg/kg)	Percent Rec. (%)	Percent Recovery (%)
460-00-4	4-Bromofluorobenzene	50	20.0	20.0	9.07 - 150.69
17060-07-0	1,2-Dichloroethane-d4	50	98.0	98.0	7.83 - 170.36
2037-26-5	Toluene-d8	50	10.0	10.0	8.81 - 143.85

Results for Laboratory Control Spike (LCS)
by GC/MS 8260/5035

Lab Sample ID: lcs1101205d
Analyst: JTF
Batch ID: 1101205

Date Analyzed: 12 Oct 2005 10:26 pm
Matrix: Soil

compound	Spiked (µg/Kg)	Amount recovered	LCS (%)	Limits Lower (%)	Limits Upper (%)
benzene	50	46.95	93.9	77.6	122
chlorobenzene	50	47.52	95.0	75.3	125
1,1-dichloroethene	50	50.33	100.7	78.5	121
toluene	50	47.74	95.5	75.7	124
trichloroethene	50	49.37	98.7	60.8	139

Comments: Concentration values are on column amount.

Flags: * = Out of limits.
NA = Not applicable
NS = Not spiked

Reviewed by: _____

VO39.072303.1

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID VBLK1101205E
Lab Project ID:
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected:
Date Received:
Matrix: Soil
%Solids: 100.0

Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	50.0	1	10/12/2005
Benzene	BQL	5.00	1	10/12/2005
Bromobenzene	BQL	5.00	1	10/12/2005
Bromochloromethane	BQL	5.00	1	10/12/2005
Bromodichloromethane	BQL	5.00	1	10/12/2005
Bromoform	BQL	5.00	1	10/12/2005
Bromomethane	BQL	5.00	1	10/12/2005
2-Butanone	BQL	25.0	1	10/12/2005
n-Butylbenzene	BQL	5.00	1	10/12/2005
sec-Butylbenzene	BQL	5.00	1	10/12/2005
tert-Butylbenzene	BQL	5.00	1	10/12/2005
Carbon disulfide	BQL	5.00	1	10/12/2005
Carbon tetrachloride	BQL	5.00	1	10/12/2005
Chlorobenzene	BQL	5.00	1	10/12/2005
Chloroethane	BQL	5.00	1	10/12/2005
Chloroform	BQL	5.00	1	10/12/2005
Chloromethane	BQL	5.00	1	10/12/2005
2-Chlorotoluene	BQL	5.00	1	10/12/2005
4-Chlorotoluene	BQL	5.00	1	10/12/2005
Dibromochloromethane	BQL	5.00	1	10/12/2005
1,2-Dibromo-3-chloropropane	BQL	5.00	1	10/12/2005
Dibromomethane	BQL	5.00	1	10/12/2005
1,2-Dibromoethane (EDB)	BQL	5.00	1	10/12/2005
1,2-Dichlorobenzene	BQL	5.00	1	10/12/2005
1,3-Dichlorobenzene	BQL	5.00	1	10/12/2005
1,4-Dichlorobenzene	BQL	5.00	1	10/12/2005
trans-1,4-Dichloro-2-butene	BQL	5.00	1	10/12/2005
1,1-Dichloroethane	BQL	5.00	1	10/12/2005
1,1-Dichloroethene	BQL	5.00	1	10/12/2005
1,2-Dichloroethane	BQL	5.00	1	10/12/2005
cis-1,2-Dichloroethene	BQL	5.00	1	10/12/2005
trans-1,2-dichloroethene	BQL	5.00	1	10/12/2005
1,2-Dichloropropane	BQL	5.00	1	10/12/2005
1,3-Dichloropropane	BQL	5.00	1	10/12/2005
2,2-Dichloropropane	BQL	5.00	1	10/12/2005
1,1-Dichloropropene	BQL	5.00	1	10/12/2005
cis-1,3-Dichloropropene	BQL	5.00	1	10/12/2005
trans-1,3-Dichloropropene	BQL	5.00	1	10/12/2005
Dichlorodifluoromethane	BQL	5.00	1	10/12/2005
Diisopropyl ether (DIPE)	BQL	5.00	1	10/12/2005
Ethylbenzene	BQL	5.00	1	10/12/2005
Hexachlorobutadiene	BQL	5.00	1	10/12/2005
2-Hexanone	BQL	5.00	1	10/12/2005
Iodomethane	BQL	5.00	1	10/12/2005

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID VBLK1101205E
Lab Project ID:
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected:
Date Received:
Matrix: Soil
%Solids: 100.0

Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	5.00	1	10/12/2005
4-Isopropyltoluene	BQL	5.00	1	10/12/2005
Methylene chloride	BQL	20.0	1	10/12/2005
4-Methyl-2-pentanone	BQL	5.00	1	10/12/2005
Methyl-tert-butyl ether (MTBE)	BQL	5.00	1	10/12/2005
Naphthalene	BQL	5.00	1	10/12/2005
n-Propyl benzene	BQL	5.00	1	10/12/2005
Styrene	BQL	5.00	1	10/12/2005
1,1,1,2-Tetrachloroethane	BQL	5.00	1	10/12/2005
1,1,2,2-Tetrachloroethane	BQL	5.00	1	10/12/2005
Tetrachloroethene	BQL	5.00	1	10/12/2005
Toluene	BQL	5.00	1	10/12/2005
1,2,3-Trichlorobenzene	BQL	5.00	1	10/12/2005
1,2,4-Trichlorobenzene	BQL	5.00	1	10/12/2005
Trichloroethene	BQL	5.00	1	10/12/2005
1,1,1-Trichloroethane	BQL	5.00	1	10/12/2005
1,1,2-Trichloroethane	BQL	5.00	1	10/12/2005
Trichlorofluoromethane	BQL	5.00	1	10/12/2005
1,2,3-Trichloropropane	BQL	5.00	1	10/12/2005
1,2,4-Trimethylbenzene	BQL	5.00	1	10/12/2005
1,3,5-Trimethylbenzene	BQL	5.00	1	10/12/2005
Vinyl chloride	BQL	5.00	1	10/12/2005
m-,p-Xylene	BQL	10.0	1	10/12/2005
o-Xylene	BQL	5.00	1	10/12/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	50	48.9	98
1,2-Dichloroethane-d4	50	54.7	109
Toluene-d8	50	48.8	98

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By:

Paradigm Analytical Laboratories, INC.

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Paradigm Analytical Laboratories, INC. Inst: MSD1 Batch ID: 1101205

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Matrix Spike - EPA Sample No.: G106-559-2A Matrix:Soil Diln: 1

COMPOUND	SAMPLE CONC (µg/kg)	MS SPIKE (µg/kg)	MS CONC (µg/kg)	MS % REC #	MSD SPIKE (µg/kg)	MSD CONC (µg/kg)	MSD % REC #	% RPD	QC LIMITS RPD	QC LIMITS REC
acetone	BQL	50.0	19.8	39.5	50.0	16.6	33.3	17.2	30	6.81-355
acrolein	BQL	500	376	75.2	500	350	70.1	6.98	30	NA-6510
acrylonitrile	BQL	500	430	86.0	500	408	81.5	5.30	30	NA-5670
benzene	BQL	50.0	46.6	93.2	50.0	47.4	94.8	1.79	30	74.8-133
bromobenzene	BQL	50.0	43.9	87.7	50.0	46.0	92.0	4.80	30	66.1-140
bromochloromethane	BQL	50.0	40.8	81.5*	50.0	41.4	82.8*	1.51	30	85.1-136
bromodichloromethane	BQL	50.0	40.7	81.3	50.0	41.0	82.0	0.832	30	77.4-140
bromoform	BQL	50.0	37.1	74.2*	50.0	35.9	71.7*	3.37	30	74.7-161
bromomethane	BQL	50.0	67.0	134*	50.0	68.5	137*	2.12	30	30.4-127
2-butanone	BQL	50.0	28.4	56.8	50.0	26.1	52.1	8.59	30	40.9-256
n-butylbenzene	BQL	50.0	46.9	93.7	50.0	47.9	95.8	2.13	30	41.2-147
sec-butylbenzene	BQL	50.0	49.2	98.3	50.0	49.7	99.4	1.11	30	56.7-138
tert-butylbenzene	BQL	50.0	47.7	95.3	50.0	49.0	98.1	2.85	30	60.5-142
Carbon disulfide	BQL	50.0	48.1	96.2	50.0	49.1	98.3	2.14	30	64.3-145
carbon tetrachloride	BQL	50.0	41.1	82.3	50.0	41.4	82.8	0.678	30	64.2-142
chlorobenzene	BQL	50.0	43.6	87.2	50.0	45.8	91.6	4.94	30	66.3-135
chloroethane	BQL	50.0	85.7	171	50.0	89.1	178	3.91	30	20.7-182
2-chloroethyl vinyl ether	BQL	50.0	40.4	80.9*	50.0	36.6	73.3*	9.86	30	0.00-0.00
chloroform	BQL	50.0	42.6	85.3	50.0	42.8	85.6	0.445	30	71.1-143
chloromethane	BQL	50.0	49.9	99.9	50.0	53.2	106	6.42	30	69.1-138
2-chlorotoluene	BQL	50.0	46.7	93.4	50.0	47.4	94.8	1.44	30	59.8-144
4-chlorotoluene	BQL	50.0	47.1	94.2	50.0	48.8	97.6	3.52	30	59.0-141
dibromochloromethane	BQL	50.0	38.6	77.2*	50.0	39.6	79.2	2.56	30	78.1-141
1,2-dibromo-3-chloropropane	BQL	250	183	73.2	250	174	69.5	5.10	30	43.4-229
1,2-dibromomethane	BQL	50.0	40.5	80.9	50.0	41.0	82.1	1.40	30	78.3-148
dibromomethane	BQL	50.0	40.0	80.0	50.0	35.8	71.6*	11.0	30	80.0-150
1,2-dichlorobenzene	BQL	50.0	43.6	87.2	50.0	44.0	88.1	1.00	30	57.5-148
1,3-dichlorobenzene	BQL	50.0	44.5	88.9	50.0	45.0	90.1	1.34	30	55.0-145
1,4-dichlorobenzene	BQL	50.0	44.2	88.5	50.0	45.0	90.0	1.64	30	53.4-146
trans-1,4-Dichloro-2-butene	BQL	250	185	73.9	250	174	69.8	5.66	30	48.9-211
dichlorodifluoromethane	BQL	50.0	47.5	95.1	50.0	46.8	93.6	1.59	30	81.6-130
1,1-dichloroethane	BQL	50.0	46.2	92.5	50.0	47.4	94.8	2.46	30	71.6-139
1,2-dichloroethane	BQL	50.0	38.5	77.1	50.0	37.8	75.6	1.99	30	72.9-146
1,1-dichloroethene	BQL	50.0	46.3	92.6	50.0	47.4	94.8	2.35	30	72.0-135
cis-1,2-dichloroethene	BQL	50.0	45.5	90.9	50.0	45.3	90.6	0.397	30	76.9-134
trans-1,2-dichloroethene	BQL	50.0	46.7	93.4	50.0	46.6	93.3	0.0857	30	72.0-135
1,2-dichloropropane	BQL	50.0	46.7	93.4	50.0	47.0	94.0	0.683	30	76.1-136
1,3-dichloropropane	BQL	50.0	43.0	86.0	50.0	43.3	86.6	0.718	30	83.2-137
2,2-dichloropropane	BQL	50.0	40.1	80.2	50.0	38.2	76.3	4.93	30	58.0-150
1,1-dichloropropene	BQL	50.0	46.6	93.1	50.0	47.3	94.5	1.53	30	68.5-137
cis-1,3-dichloropropene	BQL	50.0	42.5	85.0	50.0	42.1	84.3	0.921	30	72.1-146

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 72 outside of limits

Spike Recovery: 10 out of 144 outside of limits

COMMENTS: _____

Paradigm Analytical Laboratories, INC.

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Matrix Spike - EPA Sample No.: G106-559-2A

COMPOUND	SAMPLE CONC (µg/kg)	MS SPIKE (µg/kg)	MS CONC (µg/kg)	MS % REC #	MSD SPIKE (µg/kg)	MSD CONC (µg/kg)	MSD % REC #	% RPD	QC LIMITS RPD	QC LIMITS REC
trans-1,3-dichloropropene	BQL	50.0	38.8	77.6	50.0	37.9	75.9	2.29	30	72.5-152
Diisopropyl ether	BQL	50.0	48.3	96.7	50.0	48.7	97.4	0.701	30	59.9-147
ethylbenzene	BQL	50.0	49.7	99.4	50.0	50.9	102	2.40	30	68.5-135
hexachlorobutadiene	BQL	50.0	34.5	69.0	50.0	42.3	84.6	20.3	30	12.1-169
2-hexanone	BQL	50.0	32.1	64.2	50.0	31.4	62.7	2.46	30	39.9-238
Iodomethane	BQL	50.0	47.8	95.6	50.0	40.8	81.7	15.7	30	39.5-177
isopropylbenzene	BQL	50.0	48.3	96.6	50.0	49.9	99.7	3.18	30	63.7-135
4-isopropyltoluene	BQL	50.0	46.5	93.0	50.0	47.7	95.3	2.48	30	53.2-142
Methyl-tert-butyl ether	BQL	50.0	42.6	85.2	50.0	41.5	83.0	2.64	30	73.3-155
methylene chloride	BQL	50.0	43.9	87.8	50.0	43.4	86.7	1.24	30	54.3-156
4-methyl-2-pentanone	BQL	50.0	36.9	73.8	50.0	31.9	63.8	14.5	30	47.2-227
naphthalene	BQL	50.0	27.4	54.8	50.0	32.8	65.5	17.7	30	14.4-218
n-propyl benzene	BQL	50.0	50.2	100	50.0	51.5	103	2.56	30	61.7-134
styrene	BQL	50.0	45.5	91.0	50.0	45.5	91.0	0.00	30	65.7-133
1,1,1,2-tetrachloroethane	BQL	50.0	43.8	87.5	50.0	45.3	90.6	3.48	30	70.4-136
1,1,2,2-tetrachloroethane	BQL	50.0	40.5	81.0	50.0	39.4	78.8	2.83	30	68.8-175
tetrachloroethene	BQL	50.0	45.7	91.4	50.0	49.6	99.2	8.21	30	61.6-137
toluene	BQL	50.0	45.4	90.8	50.0	46.7	93.4	2.82	30	70.5-138
1,2,3-trichlorobenzene	BQL	50.0	17.9	35.8	50.0	27.8	55.6	43.2*	30	13.2-190
1,2,4-trichlorobenzene	BQL	50.0	29.7	59.3	50.0	34.7	69.4	15.6	30	9.93-187
1,1,1-trichloroethane	BQL	50.0	41.8	83.7	50.0	42.5	85.0	1.54	30	66.9-142
1,1,2-trichloroethane	BQL	50.0	43.6	87.2	50.0	43.3	86.7	0.598	30	84.9-139
trichloroethene	BQL	50.0	46.2	92.5	50.0	48.1	96.3	4.00	30	60.7-152
trichlorofluoromethane	BQL	50.0	47.2	94.4	50.0	46.3	92.6	1.88	30	55.0-162
1,2,3-trichloropropane	BQL	50.0	38.2	76.4	50.0	37.0	74.0	3.22	30	55.1-197
1,2,4-trimethylbenzene	BQL	50.0	46.4	92.7	50.0	47.7	95.4	2.89	30	61.1-141
1,3,5-trimethylbenzene	BQL	50.0	48.4	96.9	50.0	49.8	99.6	2.81	30	61.8-138
Vinyl acetate	BQL	125	90.5	72.4	125	71.8	57.4	23.1	30	NA-NA
vinyl chloride	BQL	50.0	52.4	105	50.0	53.8	108	2.62	30	80.9-129
m/p-xylene	BQL	100	100	100	100	103	103	3.23	30	68.0-135
o-xylene	BQL	50.0	45.5	91.1	50.0	46.6	93.2	2.32	30	71.1-135

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 72 outside of limits

Spike Recovery: 10 out of 144 outside of limits

COMMENTS: _____

Results for MS/MSD
by GC/MS 8260/5035

Client Project ID: Batch QC
Lab Sample ID: g106-559-2a
Batch ID: 1101205

Date Analyzed: 13 Oct 2005 6:49 am
Matrix: Soil
Analyzed By: JTF

Compound	Unspiked Sample ug/L	Spike conc. ug/L	Recovered MS %	Recovered MSD %	Limits Lower %	Limits Upper %	RPD %	RPD Limit %
benzene	BQL	100	94.0	95.6	74.8	133	1.8	30
chlorobenzene	BQL	100	87.3	91.7	66.3	135	4.9	30
1,1-dichloroethene	BQL	100	92.6	94.8	72.0	135	2.4	30
toluene	BQL	100	91.2	93.8	70 5	138	2.8	30
trichloroethene	BQL	100	92.5	96.3	60.7	152	4.0	30

Comments:

Concentrations are on column amounts.
Concentration Units: ug/L

Flags:

* = Out of limits
NA = Not applicable
BQL = Below quantitation limit.

Reviewed By: _____

VO41.072303.1

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: WS-1-5
Client Project ID: Wolth Property
Lab Sample ID: G161-2180-1H
Lab Project ID: G161-2180
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 10/4/2005 9:42
Date Received: 10/6/2005
Date Extracted: 10/7/2005
Matrix: Soil
% Solids: 65.07

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
Acenaphthene	**1.34**	0.475	1	10/10/2005
Acenaphthylene	BQL	0.475	1	10/10/2005
Anthracene	BQL	0.475	1	10/10/2005
Benzo[a]anthracene	BQL	0.475	1	10/10/2005
Benzo[a]pyrene	BQL	0.475	1	10/10/2005
Benzo[b]fluoranthene	BQL	0.475	1	10/10/2005
Benzo[g,h,i]perylene	BQL	0.475	1	10/10/2005
Benzo[k]fluoranthene	BQL	0.475	1	10/10/2005
Bis(2-chloroethoxy)methane	BQL	0.475	1	10/10/2005
Bis(2-chloroethyl)ether	BQL	0.475	1	10/10/2005
Bis(2-chloroisopropyl)ether	BQL	0.475	1	10/10/2005
Bis(2-ethylhexyl)phthalate	BQL	0.475	1	10/10/2005
4-bromophenyl phenyl ether	BQL	0.475	1	10/10/2005
Butylbenzylphthalate	BQL	0.475	1	10/10/2005
2-Chloronaphthalene	BQL	0.475	1	10/10/2005
4-Chloroaniline	BQL	2.38	1	10/10/2005
4-Chlorophenyl phenyl ether	BQL	0.475	1	10/10/2005
Chrysene	BQL	0.475	1	10/10/2005
Dibenzo[a,h]anthracene	BQL	0.475	1	10/10/2005
Dibenzofuran	**1.05**	0.475	1	10/10/2005
Di-n-Butylphthalate	BQL	0.475	1	10/10/2005
1,2-Dichlorobenzene	BQL	0.475	1	10/10/2005
1,3-Dichlorobenzene	BQL	0.475	1	10/10/2005
1,4-Dichlorobenzene	BQL	0.475	1	10/10/2005
3,3'-Dichlorobenzidine	BQL	0.950	1	10/10/2005
Diethylphthalate	BQL	0.475	1	10/10/2005
Dimethylphthalate	BQL	0.475	1	10/10/2005
Di-n-octylphthalate	BQL	0.475	1	10/10/2005
2,4-Dinitrotoluene	BQL	0.475	1	10/10/2005
2,6-Dinitrotoluene	BQL	0.475	1	10/10/2005
Diphenylamine *	BQL	0.475	1	10/10/2005
Fluoranthene	BQL	0.475	1	10/10/2005
Fluorene	**2.01**	0.475	1	10/10/2005
Hexachlorobenzene	BQL	0.475	1	10/10/2005
Hexachlorobutadiene	BQL	0.475	1	10/10/2005
Hexachlorocyclopentadiene	BQL	0.950	1	10/10/2005
Hexachloroethane	BQL	0.475	1	10/10/2005
Indeno(1,2,3-c,d)pyrene	BQL	0.475	1	10/10/2005
Isophorone	BQL	0.475	1	10/10/2005
2-Methylnaphthalene	**11.5**	0.475	1	10/10/2005
Naphthalene	**1.27**	0.475	1	10/10/2005
2-Nitroaniline	BQL	0.475	1	10/10/2005

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: WS-1-5
Client Project ID: Wolth Property
Lab Sample ID: G161-2180-1H
Lab Project ID: G161-2180
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 10/4/2005 9:42
Date Received: 10/6/2005
Date Extracted: 10/7/2005
Matrix: Soil
% Solids: 65.07

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
3-Nitroaniline	BQL	2.38	1	10/10/2005
4-Nitroaniline	BQL	2.38	1	10/10/2005
Nitrobenzene	BQL	0.475	1	10/10/2005
N-Nitrosodi-n-propylamine	BQL	0.475	1	10/10/2005
Phenanthrene	**7.28**	0.475	1	10/10/2005
Pyrene	BQL	0.475	1	10/10/2005
1,2,4-Trichlorobenzene	BQL	0.475	1	10/10/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	10.2	102
Nitrobenzene-d5	10	10.9	109
4-Terphenyl-d14	10	10.3	103

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: WS-2-5
Client Project ID: Wolth Property
Lab Sample ID: G161-2180-2H
Lab Project ID: G161-2180
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 10/4/2005 10:03
Date Received: 10/6/2005
Date Extracted: 10/7/2005
Matrix: Soil
% Solids: 87.1

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	0.358	1	10/10/2005
Acenaphthylene	BQL	0.358	1	10/10/2005
Anthracene	BQL	0.358	1	10/10/2005
Benzo[a]anthracene	BQL	0.358	1	10/10/2005
Benzo[a]pyrene	BQL	0.358	1	10/10/2005
Benzo[b]fluoranthene	BQL	0.358	1	10/10/2005
Benzo[g,h,i]perylene	BQL	0.358	1	10/10/2005
Benzo[k]fluoranthene	BQL	0.358	1	10/10/2005
Bis(2-chloroethoxy)methane	BQL	0.358	1	10/10/2005
Bis(2-chloroethyl)ether	BQL	0.358	1	10/10/2005
Bis(2-chloroisopropyl)ether	BQL	0.358	1	10/10/2005
Bis(2-ethylhexyl)phthalate	BQL	0.358	1	10/10/2005
4-bromophenyl phenyl ether	BQL	0.358	1	10/10/2005
Butylbenzylphthalate	BQL	0.358	1	10/10/2005
2-Chloronaphthalene	BQL	0.358	1	10/10/2005
4-Chloroaniline	BQL	1.79	1	10/10/2005
4-Chlorophenyl phenyl ether	BQL	0.358	1	10/10/2005
Chrysene	BQL	0.358	1	10/10/2005
Dibenzo[a,h]anthracene	BQL	0.358	1	10/10/2005
Dibenzofuran	BQL	0.358	1	10/10/2005
Di-n-Butylphthalate	BQL	0.358	1	10/10/2005
1,2-Dichlorobenzene	BQL	0.358	1	10/10/2005
1,3-Dichlorobenzene	BQL	0.358	1	10/10/2005
1,4-Dichlorobenzene	BQL	0.358	1	10/10/2005
3,3'-Dichlorobenzidine	BQL	0.716	1	10/10/2005
Diethylphthalate	BQL	0.358	1	10/10/2005
Dimethylphthalate	BQL	0.358	1	10/10/2005
Di-n-octylphthalate	BQL	0.358	1	10/10/2005
2,4-Dinitrotoluene	BQL	0.358	1	10/10/2005
2,6-Dinitrotoluene	BQL	0.358	1	10/10/2005
Diphenylamine *	BQL	0.358	1	10/10/2005
Fluoranthene	BQL	0.358	1	10/10/2005
Fluorene	BQL	0.358	1	10/10/2005
Hexachlorobenzene	BQL	0.358	1	10/10/2005
Hexachlorobutadiene	BQL	0.358	1	10/10/2005
Hexachlorocyclopentadiene	BQL	0.716	1	10/10/2005
Hexachloroethane	BQL	0.358	1	10/10/2005
Indeno(1,2,3-c,d)pyrene	BQL	0.358	1	10/10/2005
Isophorone	BQL	0.358	1	10/10/2005
2-Methylnaphthalene	BQL	0.358	1	10/10/2005
Naphthalene	BQL	0.358	1	10/10/2005
2-Nitroaniline	BQL	0.358	1	10/10/2005

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: WS-2-5
Client Project ID: Wolth Property
Lab Sample ID: G161-2180-2H
Lab Project ID: G161-2180
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 10/4/2005 10:03
Date Received: 10/6/2005
Date Extracted: 10/7/2005
Matrix: Soil
% Solids: 87.1

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
3-Nitroaniline	BQL	1.79	1	10/10/2005
4-Nitroaniline	BQL	1.79	1	10/10/2005
Nitrobenzene	BQL	0.358	1	10/10/2005
N-Nitrosodi-n-propylamine	BQL	0.358	1	10/10/2005
Phenanthrene	BQL	0.358	1	10/10/2005
Pyrene	BQL	0.358	1	10/10/2005
1,2,4-Trichlorobenzene	BQL	0.358	1	10/10/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	10	100
Nitrobenzene-d5	10	10	100
4-Terphenyl-d14	10	11.2	112

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By: [signature]

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: WS-2-10
Client Project ID: Wolth Property
Lab Sample ID: G161-2180-3H
Lab Project ID: G161-2180
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 10/4/2005 10:05
Date Received: 10/6/2005
Date Extracted: 10/7/2005
Matrix: Soil
% Solids: 72.37

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	0.416	1	10/10/2005
Acenaphthylene	BQL	0.416	1	10/10/2005
Anthracene	BQL	0.416	1	10/10/2005
Benzo[a]anthracene	BQL	0.416	1	10/10/2005
Benzo[a]pyrene	BQL	0.416	1	10/10/2005
Benzo[b]fluoranthene	BQL	0.416	1	10/10/2005
Benzo[g,h,i]perylene	BQL	0.416	1	10/10/2005
Benzo[k]fluoranthene	BQL	0.416	1	10/10/2005
Bis(2-chloroethoxy)methane	BQL	0.416	1	10/10/2005
Bis(2-chloroethyl)ether	BQL	0.416	1	10/10/2005
Bis(2-chloroisopropyl)ether	BQL	0.416	1	10/10/2005
Bis(2-ethylhexyl)phthalate	BQL	0.416	1	10/10/2005
4-bromophenyl phenyl ether	BQL	0.416	1	10/10/2005
Butylbenzylphthalate	BQL	0.416	1	10/10/2005
2-Chloronaphthalene	BQL	0.416	1	10/10/2005
4-Chloroaniline	BQL	2.08	1	10/10/2005
4-Chlorophenyl phenyl ether	BQL	0.416	1	10/10/2005
Chrysene	BQL	0.416	1	10/10/2005
Dibenzo[a,h]anthracene	BQL	0.416	1	10/10/2005
Dibenzofuran	BQL	0.416	1	10/10/2005
Di-n-Butylphthalate	BQL	0.416	1	10/10/2005
1,2-Dichlorobenzene	BQL	0.416	1	10/10/2005
1,3-Dichlorobenzene	BQL	0.416	1	10/10/2005
1,4-Dichlorobenzene	BQL	0.416	1	10/10/2005
3,3'-Dichlorobenzidine	BQL	0.833	1	10/10/2005
Diethylphthalate	BQL	0.416	1	10/10/2005
Dimethylphthalate	BQL	0.416	1	10/10/2005
Di-n-octylphthalate	BQL	0.416	1	10/10/2005
2,4-Dinitrotoluene	BQL	0.416	1	10/10/2005
2,6-Dinitrotoluene	BQL	0.416	1	10/10/2005
Diphenylamine *	BQL	0.416	1	10/10/2005
Fluoranthene	BQL	0.416	1	10/10/2005
Fluorene	BQL	0.416	1	10/10/2005
Hexachlorobenzene	BQL	0.416	1	10/10/2005
Hexachlorobutadiene	BQL	0.416	1	10/10/2005
Hexachlorocyclopentadiene	BQL	0.833	1	10/10/2005
Hexachloroethane	BQL	0.416	1	10/10/2005
Indeno(1,2,3-c,d)pyrene	BQL	0.416	1	10/10/2005
Isophorone	BQL	0.416	1	10/10/2005
2-Methylnaphthalene	BQL	0.416	1	10/10/2005
Naphthalene	BQL	0.416	1	10/10/2005
2-Nitroaniline	BQL	0.416	1	10/10/2005

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: WS-2-10
Client Project ID: Wolth Property
Lab Sample ID: G161-2180-3H
Lab Project ID: G161-2180
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 10/4/2005 10:05
Date Received: 10/6/2005
Date Extracted: 10/7/2005
Matrix: Soil
% Solids: 72.37

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
3-Nitroaniline	BQL	2.08	1	10/10/2005
4-Nitroaniline	BQL	2.08	1	10/10/2005
Nitrobenzene	BQL	0.416	1	10/10/2005
N-Nitrosodi-n-propylamine	BQL	0.416	1	10/10/2005
Phenanthrene	BQL	0.416	1	10/10/2005
Pyrene	BQL	0.416	1	10/10/2005
1,2,4-Trichlorobenzene	BQL	0.416	1	10/10/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.1	81
Nitrobenzene-d5	10	7.4	74
4-Terphenyl-d14	10	11.1	111

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Semivolatiles
by GCMS 625-BN

Client Sample ID: WWS-1
Client Project ID: Wolth Property
Lab Sample ID: G161-2180-5I
Lab Project ID: G161-2180

Analyzed By: MRC
Date Collected: 10/5/2005 9:52
Date Received: 10/6/2005
Date Extracted: 10/6/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
Acenaphthene	BQL	10.0	1	10/8/2005
Acenaphthylene	BQL	10.0	1	10/8/2005
Anthracene	BQL	10.0	1	10/8/2005
Benzo[a]anthracene	BQL	10.0	1	10/8/2005
Benzo[a]pyrene	BQL	10.0	1	10/8/2005
Benzo[b]fluoranthene	BQL	10.0	1	10/8/2005
Benzo[g,h,i]perylene	BQL	10.0	1	10/8/2005
Benzo[k]fluoranthene	BQL	10.0	1	10/8/2005
Bis(2-chloroethoxy)methane	BQL	10.0	1	10/8/2005
Bis(2-chloroethyl)ether	BQL	10.0	1	10/8/2005
Bis(2-chloroisopropyl)ether	BQL	10.0	1	10/8/2005
Bis(2-ethylhexyl)phthalate	BQL	10.0	1	10/8/2005
4-bromophenyl phenyl ether	BQL	10.0	1	10/8/2005
Butylbenzylphthalate	BQL	10.0	1	10/8/2005
2-Chloronaphthalene	BQL	10.0	1	10/8/2005
4-Chlorophenyl phenyl ether	BQL	10.0	1	10/8/2005
Chrysene	BQL	10.0	1	10/8/2005
Dibenzo[a,h]anthracene	BQL	10.0	1	10/8/2005
Di-n-Butylphthalate	BQL	10.0	1	10/8/2005
1,2-Dichlorobenzene	BQL	10.0	1	10/8/2005
1,3-Dichlorobenzene	BQL	10.0	1	10/8/2005
1,4-Dichlorobenzene	BQL	10.0	1	10/8/2005
3,3'-Dichlorobenzidine	BQL	20.0	1	10/8/2005
Diethylphthalate	BQL	10.0	1	10/8/2005
Dimethylphthalate	BQL	10.0	1	10/8/2005
Di-n-octylphthalate	BQL	10.0	1	10/8/2005
2,4-Dinitrotoluene	BQL	10.0	1	10/8/2005
2,6-Dinitrotoluene	BQL	10.0	1	10/8/2005
Diphenylamine *	BQL	10.0	1	10/8/2005
Fluoranthene	BQL	10.0	1	10/8/2005
Fluorene	BQL	10.0	1	10/8/2005
Hexachlorobenzene	BQL	10.0	1	10/8/2005
Hexachlorobutadiene	BQL	10.0	1	10/8/2005
Hexachlorocyclopentadiene	BQL	20.0	1	10/8/2005
Hexachloroethane	BQL	10.0	1	10/8/2005
Indeno(1,2,3-c,d)pyrene	BQL	10.0	1	10/8/2005
Isophorone	BQL	10.0	1	10/8/2005
Naphthalene	BQL	10.0	1	10/8/2005
Nitrobenzene	BQL	10.0	1	10/8/2005
N-Nitrosodi-n-propylamine	BQL	10.0	1	10/8/2005
Phenanthrene	BQL	10.0	1	10/8/2005
Pyrene	BQL	10.0	1	10/8/2005

Results for Semivolatiles
by GCMS 625-BN

Client Sample ID: WWS-1
Client Project ID: Wolth Property
Lab Sample ID: G161-2180-5I
Lab Project ID: G161-2180

Analyzed By: MRC
Date Collected: 10/5/2005 9:52
Date Received: 10/6/2005
Date Extracted: 10/6/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
1,2,4-Trichlorobenzene	BQL	10.0	1	10/8/2005

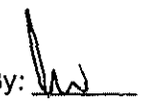
	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.9	89
Nitrobenzene-d5	10	8.2	82
4-Terphenyl-d14	10	9	90

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By: 

Results of Library Search for Semivolatile Compounds
by GCMS

Client Sample ID: WWS-1
Client Project ID: Wolth Property
Lab Sample ID: G161-2180-5I
Lab Project ID: G161-2180
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 10/5/2005 9:52
Date Received: 10/6/2005
Date Extracted: 10/6/2005
Date Analyzed: 10/8/2005
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	No library search compounds detected.				
2					
3					
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: _____

Results for Semivolatiles
by GCMS 625-BN

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB3780
Lab Project ID:

Analyzed By: MRC
Date Collected:
Date Received:
Date Extracted: 10/6/2005
Matrix: WATER

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
Acenaphthene	BQL	10.0	1	10/7/2005
Acenaphthylene	BQL	10.0	1	10/7/2005
Anthracene	BQL	10.0	1	10/7/2005
Benzo[a]anthracene	BQL	10.0	1	10/7/2005
Benzo[a]pyrene	BQL	10.0	1	10/7/2005
Benzo[b]fluoranthene	BQL	10.0	1	10/7/2005
Benzo[g,h,i]perylene	BQL	10.0	1	10/7/2005
Benzo[k]fluoranthene	BQL	10.0	1	10/7/2005
Bis(2-chloroethoxy)methane	BQL	10.0	1	10/7/2005
Bis(2-chloroethyl)ether	BQL	10.0	1	10/7/2005
Bis(2-chloroisopropyl)ether	BQL	10.0	1	10/7/2005
Bis(2-ethylhexyl)phthalate	BQL	10.0	1	10/7/2005
4-bromophenyl phenyl ether	BQL	10.0	1	10/7/2005
Butylbenzylphthalate	BQL	10.0	1	10/7/2005
2-Chloronaphthalene	BQL	10.0	1	10/7/2005
4-Chlorophenyl phenyl ether	BQL	10.0	1	10/7/2005
Chrysene	BQL	10.0	1	10/7/2005
Dibenzo[a,h]anthracene	BQL	10.0	1	10/7/2005
Di-n-Butylphthalate	BQL	10.0	1	10/7/2005
1,2-Dichlorobenzene	BQL	10.0	1	10/7/2005
1,3-Dichlorobenzene	BQL	10.0	1	10/7/2005
1,4-Dichlorobenzene	BQL	10.0	1	10/7/2005
3,3'-Dichlorobenzidine	BQL	20.0	1	10/7/2005
Diethylphthalate	BQL	10.0	1	10/7/2005
Dimethylphthalate	BQL	10.0	1	10/7/2005
Di-n-octylphthalate	BQL	10.0	1	10/7/2005
2,4-Dinitrotoluene	BQL	10.0	1	10/7/2005
2,6-Dinitrotoluene	BQL	10.0	1	10/7/2005
Diphenylamine *	BQL	10.0	1	10/7/2005
Fluoranthene	BQL	10.0	1	10/7/2005
Fluorene	BQL	10.0	1	10/7/2005
Hexachlorobenzene	BQL	10.0	1	10/7/2005
Hexachlorobutadiene	BQL	10.0	1	10/7/2005
Hexachlorocyclopentadiene	BQL	20.0	1	10/7/2005
Hexachloroethane	BQL	10.0	1	10/7/2005
Indeno(1,2,3-c,d)pyrene	BQL	10.0	1	10/7/2005
Isophorone	BQL	10.0	1	10/7/2005
Naphthalene	BQL	10.0	1	10/7/2005
Nitrobenzene	BQL	10.0	1	10/7/2005
N-Nitrosodi-n-propylamine	BQL	10.0	1	10/7/2005
Phenanthrene	BQL	10.0	1	10/7/2005
Pyrene	BQL	10.0	1	10/7/2005

Results for Semivolatiles
by GCMS 625-BN

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB3780
Lab Project ID:

Analyzed By: MRC
Date Collected:
Date Received:
Date Extracted: 10/6/2005
Matrix: WATER

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
1,2,4-Trichlorobenzene	BQL	10.0	1	10/7/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	7	70
Nitrobenzene-d5	10	6.4	64
4-Terphenyl-d14	10	9	90

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By:

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB3780
Lab Project ID:
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected:
Date Received:
Date Extracted: 10/6/2005
Date Analyzed: 10/7/2005
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	No library search compounds detected.				
2					
3					
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: _____

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB3790
Lab Project ID:
Report Basis: Dry Weight

Analyzed By: MRC
Date Collected:
Date Received:
Date Extracted: 10/7/2005
Matrix: SOIL
% Solids: 100

Compound	Result ug/Kg	Quantitation Limit ug/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	313	1	10/10/2005
Acenaphthylene	BQL	313	1	10/10/2005
Anthracene	BQL	313	1	10/10/2005
Benzo[a]anthracene	BQL	313	1	10/10/2005
Benzo[a]pyrene	BQL	313	1	10/10/2005
Benzo[b]fluoranthene	BQL	313	1	10/10/2005
Benzo[g,h,i]perylene	BQL	313	1	10/10/2005
Benzo[k]fluoranthene	BQL	313	1	10/10/2005
Bis(2-chloroethoxy)methane	BQL	313	1	10/10/2005
Bis(2-chloroethyl)ether	BQL	313	1	10/10/2005
Bis(2-chloroisopropyl)ether	BQL	313	1	10/10/2005
Bis(2-ethylhexyl)phthalate	BQL	313	1	10/10/2005
4-bromophenyl phenyl ether	BQL	313	1	10/10/2005
Butylbenzylphthalate	BQL	313	1	10/10/2005
2-Chloronaphthalene	BQL	313	1	10/10/2005
4-Chloroaniline	BQL	1560	1	10/10/2005
4-Chlorophenyl phenyl ether	BQL	313	1	10/10/2005
Chrysene	BQL	313	1	10/10/2005
Dibenzo[a,h]anthracene	BQL	313	1	10/10/2005
Dibenzofuran	BQL	313	1	10/10/2005
Di-n-Butylphthalate	BQL	313	1	10/10/2005
1,2-Dichlorobenzene	BQL	313	1	10/10/2005
1,3-Dichlorobenzene	BQL	313	1	10/10/2005
1,4-Dichlorobenzene	BQL	313	1	10/10/2005
3,3'-Dichlorobenzidine	BQL	625	1	10/10/2005
Diethylphthalate	BQL	313	1	10/10/2005
Dimethylphthalate	BQL	313	1	10/10/2005
Di-n-octylphthalate	BQL	313	1	10/10/2005
2,4-Dinitrotoluene	BQL	313	1	10/10/2005
2,6-Dinitrotoluene	BQL	313	1	10/10/2005
Diphenylamine *	BQL	313	1	10/10/2005
Fluoranthene	BQL	313	1	10/10/2005
Fluorene	BQL	313	1	10/10/2005
Hexachlorobenzene	BQL	313	1	10/10/2005
Hexachlorobutadiene	BQL	313	1	10/10/2005
Hexachlorocyclopentadiene	BQL	625	1	10/10/2005
Hexachloroethane	BQL	313	1	10/10/2005
Indeno(1,2,3-c,d)pyrene	BQL	313	1	10/10/2005
Isophorone	BQL	313	1	10/10/2005
2-Methylnaphthalene	BQL	313	1	10/10/2005
Naphthalene	BQL	313	1	10/10/2005
2-Nitroaniline	BQL	313	1	10/10/2005

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB3790
Lab Project ID:
Report Basis: Dry Weight

Analyzed By: MRC
Date Collected:
Date Received:
Date Extracted: 10/7/2005
Matrix: SOIL
% Solids: 100

Compound	Result ug/Kg	Quantitation Limit ug/Kg	Dilution Factor	Date Analyzed
3-Nitroaniline	BQL	1560	1	10/10/2005
4-Nitroaniline	BQL	1560	1	10/10/2005
Nitrobenzene	BQL	313	1	10/10/2005
N-Nitrosodi-n-propylamine	BQL	313	1	10/10/2005
Phenanthrene	BQL	313	1	10/10/2005
Pyrene	BQL	313	1	10/10/2005
1,2,4-Trichlorobenzene	BQL	313	1	10/10/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	10.9	109
Nitrobenzene-d5	10	10.6	106
4-Terphenyl-d14	10	10.9	109

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By:

Paradigm Analytical Laboratories, INC.

2C

WATER SEMIVOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	TOT OUT
01	WWS-1	82	89	90				0
02	G649-2-1N	67	100	62				0
03	G649-2-1O MS	88	101	88				0
04	G649-2-1P MSD	87	105	88				0
05	LCS3780	82	97	84				0
06	PB3780	64	70	90				0
07								
08								
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25								
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27								
28								
29								
30								

	QC LIMITS
S1 (NBZ) = Nitrobenzene-d5	(22-142)
S2 (FBP) = 2-Fluorobiphenyl	0265443-112.223
S3 (TPH) = Terphenyl-d14	(61-112)
S4 (PHL) = Phenol-d5	(46-118)
S5 (2FP) = 2-Fluorophenol	1093752-118.499
S6 (TBP) = 2,4,6-Tribromophenol	2945371-151.567

Column to be used to flag recovery values.
* Values outside of contract required QC limits.
D Surrogate diluted out

Paradigm Analytical Laboratories, INC.

2D

SOIL SEMIVOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Level: (low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #				TOT OUT
01	WS-1-5	109	102	103				0
02	G161-2182-12C	106	115	107				0
03	G161-2182-12D MS	106	112	107				0
04	G161-2182-12E MSD	113	120	117				0
05	LCS3790	109	114	114				0
06	PB3790	106	109	109				0
07	WS-2-5	100	100	112				0
08	WS-2-10	74	81	111				0
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

	QC LIMITS
S1 (NBZ) = Nitrobenzene-d5	(46-117)
S2 (FBP) = 2-Fluorobiphenyl	(56-116)
S3 (TPH) = Terphenyl-d14	(44-140)

Column to be used to flag recovery values.
* Values outside of contract required QC limits.
D Surrogate diluted out

Paradigm Analytical Laboratories, INC.

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Matrix Spike - EPA Sample No.: G649-2-1N

COMPOUND	SAMPLE CONC (µg/L)	MS SPIKE (µg/L)	MS CONC (µg/L)	MS % REC #	MSD SPIKE (µg/L)	MSD CONC (µg/L)	MSD % REC #	% RPD	QC LIMITS RPD	QC LIMITS REC
Acenaphthene	BQL	200	196	97.8	200	200	99.8	2.02	30	55.0-106
Acenaphthylene	BQL	200	222	111	200	223	111	0.630	30	62.0-119
Anthracene	BQL	200	195	97.5 *	200	200	100 *	2.53	30	44.0-96.0
Benzo[a]anthracene	BQL	200	198	99.3	200	202	101	1.90	30	50.0-109
Benzo[a]pyrene	BQL	200	215	107 *	200	224	112 *	4.29	30	39.0-100
Benzo[b]fluoranthene	BQL	200	218	109 *	200	236	118 *	7.75	30	34.0-105
Benzo[g,h,i]perylene	BQL	200	173	86.3	200	183	91.6	5.96	30	36.0-116
Benzo[k]fluoranthene	BQL	200	241	120 *	200	264	132 *	9.18	30	26.0-120
Benzoic Acid	BQL	200	157	78.5	200	164	82.1	4.48	30	44.0-107
Benzyl Alcohol	BQL	200	168	83.8	200	168	84.0	0.238	30	62.0-104
Bis(2-chloroethoxy)methane	BQL	200	186	92.9	200	188	93.8	0.964	30	58.0-101
Bis(2-chloroethyl)ether	BQL	200	172	86.2	200	164	82.0	4.99	30	47.0-93.0
Bis(2-chloroisopropyl)ether	BQL	200	180	90.1	200	176	88.0	2.36	30	58.0-100
Bis(2-ethylhexyl)phthalate	BQL	200	203	101	200	219	109	7.69	30	46.0-131
4-bromophenyl phenyl ether	BQL	200	190	95.2	200	195	97.7	2.59	30	36.0-112
Butylbenzylphthalate	BQL	200	212	106	200	226	113	6.22	30	54.0-117
4-Chloroaniline	BQL	200	446	223 *	200	448	224 *	0.403	30	12.0-198
4-Chloro-3-methylphenol	BQL	200	192	96.0	200	193	96.7	0.726	30	67.0-98.0
2-Chloronaphthalene	BQL	200	193	96.6	200	194	97.1	0.516	30	54.0-105
2-Chlorophenol	BQL	200	176	87.9	200	174	86.8	1.26	30	59.0-95.0
4-Chlorophenyl phenyl ether	BQL	200	192	96.2	200	198	99.0	2.87	30	51.0-114
Chrysene	BQL	200	208	104	200	213	106	2.19	30	52.0-114
Di-n-Butylphthalate	BQL	200	204	102	200	209	105	2.52	30	53.0-111
Di-n-octylphthalate	BQL	200	259	129 *	200	306	153 *	16.7	30	22.0-113
Dibenzo[a,h]anthracene	BQL	200	192	96.2	200	200	100	4.07	30	33.0-117
Dibenzofuran	BQL	200	179	89.7	200	182	91.2	1.66	30	62.0-108
1,2-Dichlorobenzene	BQL	200	158	79.2	200	155	77.6	2.04	30	31.0-93.0
1,3-Dichlorobenzene	BQL	200	144	71.8	200	143	71.4	0.559	30	25.0-87.0
1,4-Dichlorobenzene	BQL	200	149	74.6	200	148	73.9	0.943	30	29.0-86.0
3,3'-Dichlorobenzidine	BQL	200	398	199	200	422	211	6.00	30	10.0-383
2,4-Dichlorophenol	BQL	200	183	91.3	200	182	91.0	0.329	30	61.0-97.0
Diethylphthalate	BQL	200	203	102	200	208	104 *	2.24	30	65.0-102
2,4-Dimethylphenol	BQL	200	280	140 *	200	284	142 *	1.63	30	29.0-110
Dimethylphthalate	BQL	200	193	96.5	200	196	97.8	1.34	30	61.0-100
4,6-Dinitro-2-methylphenol	BQL	200	83.4	41.7 *	200	98.8	49.4	16.9	30	46.0-104
2,4-Dinitrophenol	BQL	200	67.0	33.5 *	200	80.2	40.1 *	17.9	30	47.0-109
2,4-Dinitrotoluene	BQL	200	190	95.1	200	193	96.7	1.67	30	63.0-103
2,6-Dinitrotoluene	BQL	200	188	94.1	200	196	97.8	3.86	30	61.0-101
Fluoranthene	BQL	200	195	97.4	200	200	100	2.73	30	49.0-109
Fluorene	BQL	200	200	100	200	203	102	1.19	30	58.0-108
Hexachlorobenzene	BQL	200	188	94.1	200	194	97.0	3.04	30	38.0-114

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 72 outside of limits

Spike Recovery: 22 out of 144 outside of limits

COMMENTS: _____

Paradigm Analytical Laboratories, INC.

3C

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix Spike - EPA Sample No.: G649-2-1N

COMPOUND	SAMPLE CONC (µg/L)	MS SPIKE (µg/L)	MS CONC (µg/L)	MS % REC #	MSD SPIKE (µg/L)	MSD CONC (µg/L)	MSD % REC #	% RPD	QC LIMITS RPD	QC LIMITS REC
Hexachlorobutadiene	BQL	200	174	86.9	200	173	86.7	0.230	30	26.0-95.0
Hexachlorocyclopentadiene	BQL	200	53.8	26.9	200	79.6	39.8	38.7 *	30	10.0-113
Hexachloroethane	BQL	200	124	61.9	200	126	63.2	2.08	30	15.0-96.0
Indeno(1,2,3-c,d)pyrene	BQL	200	174	86.8	200	181	90.3	3.95	30	34.0-111
Isophorone	BQL	200	207	103	200	209	104	1.15	30	65.0-112
1-Methylnaphthalene	BQL	200	169	84.4	200	171	85.5	1.29	30	48.0-121
2-Methylnaphthalene	BQL	200	176	88.1	200	177	88.7	0.679	30	45.0-121
2-Methylphenol	BQL	200	189	94.3	200	187	93.5	0.852	30	62.0-99.0
4-Methylphenol	BQL	400	320	80.1	400	315	78.8	1.70	30	51.0-102
N-Nitrosodi-n-propylamine	BQL	200	170	85.2	200	169	84.6	0.707	30	67.0-107
Diphenylamine	BQL	200	574	287 *	200	595	297 *	3.59	30	24.0-114
Naphthalene	BQL	200	188	94.2	200	186	93.2	1.07	30	25.0-131
2-Nitroaniline	BQL	200	205	102	200	208	104	1.74	30	54.0-135
3-Nitroaniline	BQL	200	170	85.1	200	181	90.7	6.37	30	10.0-594
4-Nitroaniline	BQL	200	334	167 *	200	340	170 *	1.66	30	30.0-153
Nitrobenzene	BQL	200	195	97.6	200	195	97.7	0.102	30	57.0-98.0
2-Nitrophenol	BQL	200	162	81.3	200	166	83.0	2.07	30	50.0-97.0
4-Nitrophenol	BQL	200	231	115	200	233	116	0.949	30	49.0-146
Pentachlorophenol	BQL	200	152	75.8	200	154	76.9	1.44	30	43.0-106
Phenanthrene	BQL	200	196	98.3	200	202	101	2.61	30	53.0-108
Phenol	BQL	200	171	85.6	200	166	82.8	3.32	30	61.0-100
Pyrene	BQL	200	219	110	200	231	116	5.24	30	41.0-123
1,2,4-Trichlorobenzene	BQL	200	174	87.2	200	176	87.8	0.686	30	41.0-96.0
2,4,5-Trichlorophenol	BQL	200	185	92.4	200	187	93.7	1.40	30	62.0-100
2,4,6-Trichlorophenol	BQL	200	182	90.8	200	185	92.7	2.07	30	61.0-96.0

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 72 outside of limits

Spike Recovery: 22 out of 144 outside of limits

COMMENTS: _____

Paradigm Analytical Laboratories, INC.

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Matrix Spike - EPA Sample No.: G161-2182-12C Level: (low/med) LOW

COMPOUND	SAMPLE CONC (µg/kg)	MS SPIKE (µg/kg)	MS CONC (µg/kg)	MS % REC #	MSD SPIKE (µg/kg)	MSD CONC (µg/kg)	MSD % REC #	% RPD	QC LIMITS RPD	QC LIMITS REC
Acenaphthene	BQL	3220	3960	123	3200	4150	130 *	5.22	30	71.0-125
Acenaphthylene	BQL	3220	4490	140	3200	4730	148 *	5.57	30	73.0-140
Anthracene	BQL	3220	3960	123 *	3200	4090	128 *	3.59	30	66.9-119
Benzo[a]anthracene	BQL	3220	3910	122	3200	4040	126	3.55	30	51.8-127
Benzo[a]pyrene	BQL	3220	4290	133	3200	4330	135	1.34	30	78.5-137
Benzo[b]fluoranthene	BQL	3220	3900	121	3200	4080	127	4.66	30	62.3-134
Benzo[g,h,i]perylene	BQL	3220	4630	144	3200	4750	148	2.80	30	56.2-149
Benzo[k]fluoranthene	BQL	3220	4500	140 *	3200	4510	141 *	0.568	30	79.7-133
Benzoic Acid	BQL	3220	1680	52.2	3200	1750	54.6	4.49	30	0.00-140
Benzyl Alcohol	BQL	3220	3490	108	3200	3660	114	5.03	30	66.8-114
Bis(2-chloroethoxy)methane	BQL	3220	3770	117	3200	3950	123 *	5.07	30	71.4-123
Bis(2-chloroethyl)ether	BQL	3220	3530	110	3200	3650	114	3.58	30	64.0-120
Bis(2-chloroisopropyl)ether	BQL	3220	3760	117	3200	3880	121	3.28	30	60.5-123
Bis(2-ethylhexyl)phthalate	BQL	3220	3890	121	3200	3990	124	2.84	30	68.5-134
4-bromophenyl phenyl ether	BQL	3220	3900	121	3200	4130	129 *	6.08	30	65.2-127
Butylbenzylphthalate	BQL	3220	4020	125	3200	4150	130	3.45	30	64.4-132
4-Chloroaniline	BQL	3220	6010	187	3200	6300	196	4.96	30	25.1-236
4-Chloro-3-methylphenol	BQL	3220	3830	119 *	3200	3980	124 *	4.19	30	80.0-115
2-Chloronaphthalene	BQL	3220	3870	120	3200	4060	127 *	5.18	30	70.3-124
2-Chlorophenol	BQL	3220	3530	110	3200	3670	114 *	4.10	30	77.1-110
4-Chlorophenyl phenyl ether	BQL	3220	3910	122	3200	4070	127 *	4.34	30	72.8-124
Chrysene	BQL	3220	4160	129 *	3200	4270	133 *	2.96	30	72.7-124
Di-n-Butylphthalate	BQL	3220	4160	129 *	3200	4360	136 *	4.98	30	67.9-125
Di-n-octylphthalate	BQL	3220	4180	130	3200	4210	131	1.07	30	48.9-162
Dibenzo[a,h]anthracene	BQL	3220	4390	136	3200	4630	144	5.70	30	58.6-146
Dibenzofuran	BQL	3220	3550	110	3200	3740	117 *	5.54	30	70.6-115
1,2-Dichlorobenzene	BQL	3220	3820	119	3200	3950	123 *	3.55	30	73.3-121
1,3-Dichlorobenzene	BQL	3220	3770	117	3200	3880	121 *	3.27	30	69.6-119
1,4-Dichlorobenzene	BQL	3220	3830	119 *	3200	3950	123 *	3.39	30	70.6-117
3,3'-Dichlorobenzidine	BQL	3220	6090	189	3200	6350	198	4.49	30	14.2-302
2,4-Dichlorophenol	BQL	3220	3470	108	3200	3650	114	5.41	30	74.5-115
Diethylphthalate	BQL	3220	4040	126	3200	4210	131 *	4.59	30	70.8-127
2,4-Dimethylphenol	BQL	3220	5250	163 *	3200	5540	173 *	5.59	30	85.4-138
Dimethylphthalate	BQL	3220	3800	118	3200	4010	125 *	5.67	30	68.5-122
4,6-Dinitro-2-methylphenol	BQL	3220	3470	108	3200	3650	114	5.32	30	39.4-126
2,4-Dinitrophenol	BQL	3220	2920	90.8	3200	2940	91.6	0.877	30	20.4-130
2,4-Dinitrotoluene	BQL	3220	3980	124	3200	4140	129	4.43	30	67.6-136
2,6-Dinitrotoluene	BQL	3220	3940	123	3200	4120	128	4.70	30	69.3-131
Fluoranthene	BQL	3220	4150	129 *	3200	4280	134 *	3.34	30	64.6-129
Fluorene	BQL	3220	4030	125	3200	4200	131 *	4.52	30	72.4-128
Hexachlorobenzene	BQL	3220	3910	121	3200	4130	129 *	5.83	30	62.9-124

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 72 outside of limits

Spike Recovery: 48 out of 144 outside of limits

COMMENTS: _____

Paradigm Analytical Laboratories, INC.

3D

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix Spike - EPA Sample No.: G161-2182-12C Level: (low/med) LOW

COMPOUND	SAMPLE CONC (µg/kg)	MS SPIKE (µg/kg)	MS CONC (µg/kg)	MS % REC #	MSD SPIKE (µg/kg)	MSD CONC (µg/kg)	MSD % REC #	% RPD	QC LIMITS RPD	QC LIMITS REC
Hexachlorobutadiene	BQL	3220	3870	120 *	3200	4000	125 *	3.75	30	69.1-118
Hexachlorocyclopentadiene	BQL	3220	5440	169	3200	5690	178 *	4.79	30	NA-176
Hexachloroethane	BQL	3220	3860	120	3200	3950	123 *	2.71	30	68.0-122
Indeno(1,2,3-c,d)pyrene	BQL	3220	4210	131	3200	4430	138	5.50	30	29.1-157
Isophorone	BQL	3220	4140	129	3200	4390	137	6.02	30	65.2-143
1-Methylnaphthalene	BQL	3220	3370	105	3200	3450	108	2.81	30	68.0-130
2-Methylnaphthalene	315	3220	3550	110	3200	3660	114 *	3.18	30	74.1-111
2-Methylphenol	BQL	3220	3660	114	3200	3810	119 *	4.47	30	78.7-116
4-Methylphenol	BQL	6430	6130	95.4	6410	6240	97.3	2.02	30	71.2-100
N-Nitrosodi-n-propylamine	BQL	3220	3410	106	3200	3550	111	4.15	30	74.3-133
Diphenylamine	BQL	3220	11500	359 *	3200	12200	381 *	5.92	30	73.6-208
Naphthalene	BQL	3220	3840	119	3200	3970	124	3.60	30	49.9-137
2-Nitroaniline	BQL	3220	4120	128	3200	4360	136 *	5.90	30	70.0-129
3-Nitroaniline	BQL	3220	3770	117	3200	3790	118	0.765	30	76.6-356
4-Nitroaniline	BQL	3220	4480	139	3200	4890	152	8.97	30	50.8-178
Nitrobenzene	BQL	3220	3950	123 *	3200	4190	131 *	6.16	30	71.4-122
2-Nitrophenol	BQL	3220	3480	108	3200	3740	117 *	7.56	30	63.3-112
4-Nitrophenol	BQL	3220	4440	138 *	3200	4810	150 *	8.19	30	56.8-133
Pentachlorophenol	BQL	3220	3090	96.1	3200	3350	105	8.47	30	29.2-108
Phenanthrene	BQL	3220	4100	127	3200	4220	132 *	3.40	30	55.8-128
Phenol	BQL	3220	3390	105	3200	3460	108	2.16	30	71.2-120
Pyrene	BQL	3220	4150	129	3200	4230	132	2.37	30	68.5-140
1,2,4-Trichlorobenzene	BQL	3220	3710	115	3200	3950	123 *	6.70	30	68.9-119
2,4,5-Trichlorophenol	BQL	3220	3670	114	3200	3860	120 *	5.28	30	72.4-118
2,4,6-Trichlorophenol	BQL	3220	3560	111	3200	3740	117 *	5.36	30	67.9-116

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 72 outside of limits

Spike Recovery: 48 out of 144 outside of limits

COMMENTS: _____

Paradigm Analytical Laboratories, INC.

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB3780

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab File ID: 1007714.D Lab Sample ID: PB3780

Instrument ID: MSD7 Date Extracted: 10/06/05

Matrix: (soil/water) WATER Date Analyzed: 10/07/05

Level: (low/med) LOW Time Analyzed: 18:39

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	G649-2-1O MS	G649-2-1O MS	1007716.D	10/07 19:55
02	G649-2-1P MSD	G649-2-1P MSD	1007717.D	10/07 20:33
03	G649-2-1N	G649-2-1N	1007728.D	10/08 03:28
04	WWS-1	G161-2180-5I	1007729.D	10/08 04:05
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COMMENTS: _____

Paradigm Analytical Laboratories, INC.

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB3790

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab File ID: 1010704.D Lab Sample ID: PB3790

Instrument ID: MSD7 Date Extracted: 10/07/05

Matrix: (soil/water) SOIL Date Analyzed: 10/10/05

Level: (low/med) LOW Time Analyzed: 17:53

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	G161-2182-12D MS	G161-2182-12D MS	1010706.D	10/10 19:07
02	G161-2182-12E MSD	G161-2182-12E MSD	1010707.D	10/10 19:45
03	G161-2182-12C	G161-2182-12C	1010710.D	10/10 21:39
04	WS-1-5	G161-2180-1H	1010711.D	10/10 22:17
05	WS-2-5	G161-2180-2H	1010712.D	10/10 22:55
06	WS-2-10	G161-2180-3H	1010713.D	10/10 23:33
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COMMENTS: _____

Paradigm Analytical Laboratories, INC.

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab File ID: 1003701.D DFTPP Injection Date: 10/03/05

Instrument ID: MSD7 DFTPP Injection Time: 08:49

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	41.6
68	Less than 2.0% of mass 69	0.0
69	Mass 69 relative abundance	34.0
70	Less than 2.0% of mass 69	0.0
127	40.0 - 60.0% of mass 198	47.7
197	Less than 1.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.0
275	10.0 - 30.0% of mass 198	22.4
365	Greater than 0.75% of mass 198	2.6
441	Present, but less than mass 443	74.2
442	40.0 - 100.0% of mass 198	80.0
443	17.0 - 23.0% of mass 442	19.1

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SVCAL48	SVCAL48	1003702.D	10/03/05	09:12
02	SVCAL01	SVCAL01	1003709.D	10/03/05	09:51
03	SVCAL02	SVCAL02	1003708.D	10/03/05	10:29
04	SVCAL04	SVCAL04	1003707.D	10/03/05	11:06
05	SVCAL06	SVCAL06	1003706.D	10/03/05	11:43
06	SVCAL08	SVCAL08	1003705.D	10/03/05	12:20
07	SVCAL12	SVCAL12	1003704.D	10/03/05	12:57
08	SVCAL24	SVCAL24	1003703.D	10/03/05	13:35
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Paradigm Analytical Laboratories, INC.

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab File ID: 1007701.D DFTPP Injection Date: 10/07/05

Instrument ID: MSD7 DFTPP Injection Time: 10:48

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	42.0
68	Less than 2.0% of mass 69	0.0
69	Mass 69 relative abundance	36.5
70	Less than 2.0% of mass 69	0.0
127	40.0 - 60.0% of mass 198	48.2
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	22.2
365	Greater than 0.75% of mass 198	2.8
441	Present, but less than mass 443	73.4
442	40.0 - 100.0% of mass 198	73.8
443	17.0 - 23.0% of mass 442	19.2

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SVCVS24	SVCVS24	1007702.D	10/07/05	11:11
02	PB3780	PB3780	1007714.D	10/07/05	18:39
03	LCS3780	LCS3780	1007715.D	10/07/05	19:17
04	G649-2-1O MS	G649-2-1O MS	1007716.D	10/07/05	19:55
05	G649-2-1P MSD	G649-2-1P MSD	1007717.D	10/07/05	20:33
06	G649-2-1N	G649-2-1N	1007728.D	10/08/05	03:28
07	WWS-1	G161-2180-5I	1007729.D	10/08/05	04:05
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Paradigm Analytical Laboratories, INC.

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab File ID: 1010701.D DFTPP Injection Date: 10/10/05

Instrument ID: MSD7 DFTPP Injection Time: 16:16

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	39.5
68	Less than 2.0% of mass 69	0.5
69	Mass 69 relative abundance	34.7
70	Less than 2.0% of mass 69	0.0
127	40.0 - 60.0% of mass 198	46.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	22.9
365	Greater than 0.75% of mass 198	2.6
441	Present, but less than mass 443	72.5
442	40.0 - 100.0% of mass 198	84.9
443	17.0 - 23.0% of mass 442	19.9

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SVCVS24	SVCVS24	1010702.D	10/10/05	16:39
02	PB3790	PB3790	1010704.D	10/10/05	17:53
03	LCS3790	LCS3790	1010705.D	10/10/05	18:30
04	G161-2182-12D MS	G161-2182-12D MS	1010706.D	10/10/05	19:07
05	G161-2182-12E MSD	G161-2182-12E MSD	1010707.D	10/10/05	19:45
06	G161-2182-12C	G161-2182-12C	1010710.D	10/10/05	21:39
07	WS-1-5	G161-2180-1H	1010711.D	10/10/05	22:17
08	WS-2-5	G161-2180-2H	1010712.D	10/10/05	22:55
09	WS-2-10	G161-2180-3H	1010713.D	10/10/05	23:33
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Paradigm Analytical Laboratories, INC.

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD7 Calibration Date(s): 10/03/05

Calibration Times: 09:12

LAB FILE ID: RRF1.0 = 1003709.D RRF2.0 = 1003708.D RRF4.0 = 1003707.D RRF6.0 = 1003706.D

RRF8.0 = 1003705.D RRF12.0 = 1003704.D RRF24.0 = 1003703.D RRF48.0 = 1003702.D

COMPOUND	RRF 1.0	RRF 2.0	RRF 4.0	RRF 6.0	RRF 8.0	RRF 12.0	RRF 24.0	RRF 48.0	ICAL RRF	% RSD
Pyridine			0.329	0.547	0.724	0.819	0.837		0.651	32.8
N-Nitrosodimethylamine			0.269	0.417	0.451	0.513	0.564		0.443	25.4
Phenol	1.74	1.80	1.68	1.77	1.66	1.68	1.58	1.47	1.67	6.32
Bis(2-chloroethyl)ether	1.60	1.48	1.40	1.44	1.33	1.32	1.21	1.19	1.37	9.93
2-Chlorophenol	1.37	1.39	1.32	1.38	1.30	1.31	1.26	1.19	1.32	5.23
Benzyl Alcohol	0.799	0.867	0.850	0.920	0.847	0.851	0.814	0.730	0.835	6.66
1,3-Dichlorobenzene	1.42	1.46	1.39	1.41	1.34	1.34	1.28	1.13	1.35	7.63
1,4-Dichlorobenzene	1.47	1.48	1.40	1.43	1.37	1.38	1.31	1.12	1.37	8.28
1,2-Dichlorobenzene	1.33	1.36	1.28	1.31	1.24	1.24	1.15	0.903	1.23	11.9
2-Methylphenol	1.01	1.04	0.953	1.01	0.970	0.976	0.951	0.868	0.972	5.33
3-, 4-Methylphenol	1.45	1.48	1.34	1.46	1.38	1.42	1.38	1.37	1.41	3.72
Bis(2-chloroisopropyl)ether	2.34	2.42	2.29	2.38	2.24	2.24	2.11	1.79	2.23	9.02
N-Nitrosodi-n-propylamine	0.793	0.831	0.780	0.821	0.792	0.780	0.751	0.623	0.771	8.43
Hexachloroethane	0.504	0.520	0.493	0.524	0.493	0.496	0.459	0.391	0.485	8.83
2-Fluorophenol (surr)	1.14	1.22	1.16	1.18	1.15	1.18	1.12	1.04	1.15	4.56
Phenol-d6 (surr)	1.65	1.70	1.60	1.68	1.58	1.59	1.52	1.42	1.59	5.73
Nitrobenzene	0.338	0.348	0.327	0.345	0.322	0.327	0.292	0.254	0.319	9.83
Isophorone	0.559	0.573	0.532	0.560	0.525	0.532	0.489	0.435	0.526	8.54
2-Nitrophenol	0.187	0.199	0.183	0.193	0.180	0.184	0.175	0.162	0.183	6.16
2,4-Dimethylphenol	0.187	0.183	0.148	0.154	0.152	0.178	0.174	0.176	0.169	9.01
Benzoic Acid	0.164	0.173	0.180	0.203	0.191	0.206	0.209	0.207	0.192	9.02
Bis(2-chloroethoxy)methane	0.384	0.398	0.372	0.377	0.350	0.352	0.324	0.292	0.356	9.74
2,4-Dichlorophenol	0.250	0.251	0.234	0.248	0.233	0.239	0.227	0.207	0.236	6.22
1,2,4-Trichlorobenzene	0.283	0.283	0.261	0.268	0.250	0.254	0.235	0.208	0.255	9.82
Naphthalene	0.926	0.930	0.858	0.878	0.826	0.828	0.760	0.649	0.832	11.1
4-Chloroaniline	0.047	0.054	0.045	0.068	0.059	0.073	0.108	0.127	0.073	40.7
Hexachlorobutadiene	0.135	0.135	0.130	0.133	0.122	0.124	0.113	0.097	0.124	10.6
4-Chloro-3-methylphenol	0.265	0.261	0.241	0.262	0.249	0.258	0.238	0.216	0.249	6.73
2-Methylnaphthalene	0.680	0.688	0.630	0.654	0.614	0.618	0.568	0.479	0.616	11.0
Nitrobenzene-d5 (surr)	0.155	0.160	0.152	0.160	0.148	0.151	0.143	0.135	0.150	5.61
Hexachlorocyclopentadiene		0.076	0.074	0.085	0.082	0.09	0.098	0.111	0.088	14.7
2,4,6-Trichlorophenol	0.368	0.378	0.349	0.359	0.342	0.345	0.332	0.322	0.349	5.25
2,4,5-Trichlorophenol	0.388	0.393	0.369	0.383	0.365	0.373	0.335	0.306	0.364	8.10
2-Chloronaphthalene	1.15	1.16	1.07	1.07	1.02	1.01	0.946	0.853	1.04	9.88
2-Nitroaniline	0.335	0.326	0.298	0.330	0.313	0.328	0.347	0.317	0.324	4.60

N.C. CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD7 Calibration Date(s): 10/03/05

Calibration Times: 09:12

LAB FILE ID: RRF1.0 = 1003709.D RRF2.0 = 1003708.D RRF4.0 = 1003707.D RRF6.0 = 1003706.D

RRF8.0 = 1003705.D RRF12.0 = 1003704.D RRF24.0 = 1003703.D RRF48.0 = 1003702.D

COMPOUND	RRF 1.0	RRF 2.0	RRF 4.0	RRF 6.0	RRF 8.0	RRF 12.0	RRF 24.0	RRF 48.0	ICAL RRF	% RSD
3-Nitroaniline	0.007	0.023	0.027	0.029	0.028	0.026	0.026		0.023	32.7
1-Methylnaphthalene	1.43	1.44	1.35	1.34	1.28	1.27	1.18	1.01	1.29	11.0
Dimethylphthalate	1.32	1.30	1.22	1.23	1.16	1.16	1.10	1.06	1.20	7.59
Acenaphthylene	1.66	1.66	1.54	1.54	1.46	1.40	1.14		1.48	12.2
2,6-Dinitrotoluene	0.267	0.280	0.273	0.285	0.268	0.273	0.261	0.253	0.270	3.83
Acenaphthene	1.15	1.15	1.06	1.08	1.03	1.02	0.948	0.828	1.03	10.3
2,4-Dinitrophenol	0.168	0.176	0.167	0.183	0.178	0.183	0.183	0.178	0.177	3.73
4-Nitrophenol	0.124	0.122	0.133	0.150	0.143	0.149	0.153	0.144	0.140	8.67
Dibenzofuran	1.68	1.66	1.52	1.54	1.45	1.42	1.31	1.16	1.47	11.8
2,4-Dinitrotoluene	0.359	0.365	0.337	0.350	0.328	0.324	0.294	0.276	0.329	9.48
Fluorene	1.24	1.20	1.10	1.14	1.07	1.05	0.935		1.10	9.17
Diethylphthalate	1.34	1.34	1.24	1.25	1.19	1.17	1.08	0.969	1.20	10.5
4-Chlorophenyl phenyl ether	0.593	0.570	0.536	0.535	0.503	0.494	0.439		0.524	9.73
4-Nitroaniline	0.134	0.143	0.125	0.142	0.131	0.164			0.140	9.79
2-Fluorobiphenyl (surr)	1.31	1.35	1.24	1.24	1.17	1.17	1.10	0.957	1.19	10.4
2,4,6-Tribromophenol (surr)	0.121	0.120	0.117	0.127	0.124	0.130	0.130	0.130	0.125	4.26
4,6-Dinitro-2-methylphenol	0.119	0.130	0.131	0.143	0.138	0.140	0.139	0.134	0.134	5.66
Diphenylamine	0.322	0.294	0.240	0.218	0.214	0.193			0.247	20.4
4-bromophenyl phenyl ether	0.190	0.198	0.181	0.189	0.177	0.178	0.165	0.137	0.177	10.8
Hexachlorobenzene	0.183	0.185	0.172	0.176	0.168	0.170	0.161	0.145	0.170	7.60
Pentachlorophenol	0.116	0.125	0.120	0.131	0.125	0.127	0.129	0.116	0.124	4.59
Phenanthrene	1.19	1.18	1.08	1.09	1.04	1.04	0.959	0.820	1.05	11.4
Carbazole	0.781	0.757	0.673	0.651	0.593	0.526			0.663	14.6
Anthracene	1.10	1.09	1.02	1.03	0.980	0.975	0.915	0.743	0.981	11.6
Azobenzene	0.886	0.900	0.836	0.842	0.797	0.787	0.702	0.584	0.792	13.2
Di-n-Butylphthalate	1.48	1.49	1.38	1.36	1.27	1.24	1.14	0.931	1.29	14.5
Fluoranthene	1.10	1.10	1.02	1.05	0.984	0.995	0.936	0.814	0.998	9.31
alpha-BHC	0.133	0.137	0.126	0.128	0.117	0.115	0.103	0.084	0.118	14.9
beta-BHC	0.110	0.116	0.108	0.112	0.106	0.104	0.095	0.072	0.103	13.6
gamma-BHC	0.115	0.116	0.111	0.111	0.104	0.102	0.093	0.079	0.104	12.2
delta-BHC	0.101	0.107	0.100	0.104	0.097	0.097	0.086	0.064	0.095	14.6
Heptachlor	0.139	0.142	0.136	0.136	0.129	0.128	0.113	0.083	0.126	15.4
Aldrin	0.152	0.153	0.145	0.144	0.137	0.131	0.111	0.079	0.131	19.1
Heptachlor Epoxide	0.037	0.043	0.044	0.044	0.042	0.045	0.045	0.042	0.043	5.66
Endosulfan I	0.029	0.034	0.036	0.036	0.034	0.033	0.028	0.022	0.031	14.6

PARADIGM ANALYTICAL LABORATORIES, INC.

N.C. CERTIFICATION #481

Paradigm Analytical Laboratories, INC.

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD7 Calibration Date(s): 10/03/05

Calibration Times: 09:12

LAB FILE ID: RRF1.0 = 1003709.D RRF2.0 = 1003708.D RRF4.0 = 1003707.D RRF6.0 = 1003706.D

RRF8.0 = 1003705.D RRF12.0 = 1003704.D RRF24.0 = 1003703.D RRF48.0 = 1003702.D

COMPOUND	RRF 1.0	RRF 2.0	RRF 4.0	RRF 6.0	RRF 8.0	RRF 12.0	RRF 24.0	RRF 48.0	ICAL RRF	% RSD
4,4'-DDE	0.206	0.211	0.192	0.197	0.188	0.191	0.175	0.139	0.187	12.0
Dieldrin	0.195	0.202	0.188	0.188	0.178	0.172	0.149	0.112	0.173	17.0
Endrin	0.026	0.03	0.029	0.032	0.029	0.03	0.03	0.027	0.029	6.22
4,4'-DDD	0.375	0.373	0.346	0.356	0.337	0.340	0.313	0.242	0.335	12.7
Endosulfan Sulfate	0.043	0.048	0.045	0.045	0.043	0.041	0.036	0.025	0.041	17.8
4,4'-DDT	0.238	0.237	0.236	0.246	0.232	0.232	0.218	0.170	0.226	10.7
Endrin Ketone	0.024	0.031	0.032	0.032	0.031	0.033	0.031	0.024	0.03	11.7
Methoxychlor	0.480	0.477	0.458	0.481	0.450	0.439	0.399	0.300	0.436	14.0
Pyrene	1.70	1.71	1.54	1.58	1.52	1.54	1.46	1.39	1.56	6.96
Butylbenzylphthalate	0.956	0.972	0.885	0.890	0.851	0.848	0.797	0.729	0.866	9.20
Benzo[a]anthracene	1.30	1.30	1.22	1.26	1.19	1.20	1.19	1.14	1.22	4.58
3,3'-Dichlorobenzidine	0.061	0.069	0.074	0.093	0.089	0.102	0.138	0.150	0.097	33.0
Chrysene	1.24	1.26	1.17	1.19	1.12	1.12	1.00	0.833	1.12	12.5
Bis(2-ethylhexyl)phthalate	1.43	1.43	1.27	1.23	1.15	1.14	0.951		1.23	13.8
4-Terphenyl-d14 (surr)	1.09	1.12	1.02	1.06	1.03	1.04	1.01	0.948	1.04	5.11
Di-n-octylphthalate	2.98	3.12	2.66	2.65	2.70	2.82	2.62	2.22	2.72	9.93
Benzo[b]fluoranthene	1.44	1.46	1.36	1.41	1.39	1.47	1.53	1.55	1.45	4.60
Benzo[k]fluoranthene	1.42	1.46	1.35	1.43	1.42	1.43	1.28	1.12	1.36	8.24
Benzo[a]pyrene	1.21	1.19	1.17	1.24	1.18	1.21	1.20	1.11	1.19	3.28
Indeno(1,2,3-c,d)pyrene	0.716	0.715	0.803	0.816	0.705	0.779	0.848	0.886	0.783	8.59
Dibenzo[a,h]anthracene	0.662	0.679	0.782	0.821	0.714	0.786	0.830	0.816	0.761	8.77
Benzo[g,h,i]perylene	0.700	0.715	0.813	0.803	0.691	0.762	0.803	0.807	0.762	6.85

N.C. CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC

Paradigm Analytical Laboratories, INC.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD7 Calibration Date: 10/07/05 Time: 11:11

Lab File ID: 1007702.D Init. Calib. Date: 10/03/05

EPA Sample No.: SVCVS24 Init. Calib. Time: 09:12

GC Column: Rtx-5Sil MS ID: 0.25 (mm)

COMPOUND	ICAL RRF	CCAL RRF	MIN RRF	%D	MAX %D
1,2,4-Trichlorobenzene	0.255	0.238		6.7	
1,2-Dichlorobenzene	1.23	1.211		1.4	
1,3-Dichlorobenzene	1.35	1.320		1.9	
1,4-Dichlorobenzene	1.37	1.357		1.0	20.0
1,4-Dichlorobenzene-D4	1.00	1.000		0.0	
1-Methylnaphthalene	1.29	1.062		17.5	
2,4,5-Trichlorophenol	0.364	0.350		3.8	
2,4,6-Trichlorophenol	0.349	0.330		5.4	20.0
2,4-Dichlorophenol	0.236	0.227		3.8	20.0
2,4-Dimethylphenol	0.169	0.171		-1.2	
2,4-Dinitrophenol	0.177	0.164	0.050	7.3	
2,4-Dinitrotoluene	0.329	0.291		11.6	
2,6-Dinitrotoluene	0.270	0.255		5.6	
2-Chloronaphthalene	1.04	0.958		7.4	
2-Chlorophenol	1.32	1.304		1.1	
2-Methylnaphthalene	0.616	0.577		6.3	
2-Methylphenol	0.972	0.945		2.8	
2-Nitroaniline	0.324	0.353		-9.0	
2-Nitrophenol	0.183	0.173		5.5	20.0
3-, 4-Methylphenol	1.41	1.362		3.3	
3-Nitroaniline	0.023	0.024#		-4.3	
4,6-Dinitro-2-methylphenol	0.134	0.126		6.0	
4-bromophenyl phenyl ether	0.177	0.167		5.6	
4-Chloro-3-methylphenol	0.249	0.238		4.4	20.0
4-Chloroaniline	0.073	0.187		-156.2	
4-Chlorophenyl phenyl ether	0.524	0.459		12.4	
4-Nitroaniline	0.140	0.119		15.0	
4-Nitrophenol	0.140	0.160	0.050	-14.3	
Acenaphthene	1.03	0.958		7.2	20.0
Acenaphthene-d10	1.00	1.000		0.0	
Acenaphthylene	1.48	1.338		9.9	
Aldrin	0.131	0.118		9.9	
alpha-BHC	0.118	0.106		10.2	
Anthracene	0.981	0.923		5.9	
Azobenzene	0.792	0.725		8.5	
Benzoic Acid	0.192	0.192		0.0	
Benzo[a]anthracene	1.22	1.180		3.7	
Benzo[a]pyrene	1.19	1.220		-2.8	20.0
Benzo[b]fluoranthene	1.45	1.442		0.7	
Benzo[k]fluoranthene	1.36	1.406		-2.9	

Paradigm Analytical Laboratories, INC.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD7 Calibration Date: 10/07/05 Time: 11:11

Lab File ID: 1007702.D Init. Calib. Date: 10/03/05

EPA Sample No.: SVCVS24 Init. Calib. Time: 09:12

GC Column: Rtx-5Sil MS ID: 0.25 (mm)

COMPOUND	ICAL RRF	CCAL RRF	MIN RRF	%D	MAX %D
Benzyl Alcohol	0.835	0.858		-2.8	
beta-BHC	0.103	0.098		4.9	
Bis(2-chloroethoxy)methane	0.356	0.330		7.3	
Bis(2-chloroethyl)ether	1.370	1.411		-3.0	
Bis(2-chloroisopropyl)ether	2.226	2.172		2.4	
Bis(2-ethylhexyl)phthalate	1.229	1.006		18.1	
Butylbenzylphthalate	0.866	0.768		11.3	
Carbazole	0.663	0.331		50.1	
Chrysene	1.117	1.099		1.6	
Chrysene-D12	1.000	1.000		0.0	
delta-BHC	0.095	0.092		3.2	
Di-n-Butylphthalate	1.287	1.175		8.7	
Di-n-octylphthalate	2.723	2.516		7.6	20.0
Dibenzofuran	1.468	1.340		8.7	
Dibenzo[a,h]anthracene	0.761	0.903		-18.7	
Dieldrin	0.173	0.157		9.2	
Diethylphthalate	1.196	1.097		8.3	
Dimethylphthalate	1.195	1.094		8.5	
Diphenylamine	0.247	0.227		8.1	
Endosulfan I	0.031	0.030#		3.2	
Endosulfan II	0.000	0.000#		0.0	
Endosulfan Sulfate	0.041	0.042#		-2.4	
Endrin	0.029	0.030#		-3.4	
Endrin Aldehyde	0.000	0.000#		0.0	
Endrin Ketone	0.030	0.032#		-6.7	
Fluoranthene	0.998	0.960		3.8	20.0
Fluorene	1.105	0.989		10.5	
gamma-BHC	0.104	0.095		8.7	
Heptachlor	0.126	0.117		7.1	
Heptachlor Epoxide	0.043	0.043#		0.0	
Hexachlorobenzene	0.170	0.161		5.3	
Hexachlorobutadiene	0.124	0.116		6.5	20.0
Hexachlorocyclopentadiene	0.088	0.100	0.050	-13.6	
Hexachloroethane	0.485	0.479		1.2	
Indeno(1,2,3-c,d)pyrene	0.783	0.890		-13.7	
Isophorone	0.526	0.498		5.3	
Methoxychlor	0.436	0.444		-1.8	
N-Nitrosodi-n-propylamine	0.771	0.694		10.0	
N-Nitrosodimethylamine	0.443	0.501		-13.1	
Naphthalene	0.832	0.775		6.9	

Paradigm Analytical Laboratories, INC.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD7 Calibration Date: 10/07/05 Time: 11:11

Lab File ID: 1007702.D Init. Calib. Date: 10/03/05

EPA Sample No.: SVCVS24 Init. Calib. Time: 09:12

GC Column: Rtx-5Sil MS ID: 0.25 (mm)

COMPOUND	ICAL RRF	CCAL RRF	MIN RRF	%D	MAX %D
Naphthalene-D8	1.000	1.000		0.0	
Nitrobenzene	0.319	0.298		6.6	
Pentachlorophenol	0.124	0.124		0.0	20.0
Perylene-D12	1.000	1.000		0.0	
Phenanthrene	1.048	0.961		8.3	
Phenanthrene-D10	1.000	1.000		0.0	
Phenol	1.674	1.591		5.0	20.0
Pyrene	1.557	1.387		10.9	
Pyridine	0.651	1.013		-55.6	
2,4,6-Tribromophenol	0.125	0.124		0.8	
2-Fluorobiphenyl	1.19	1.123		5.8	
2-Fluorophenol	1.15	1.201		-4.4	
4-Terphenyl-d14	1.04	0.951		8.6	
Nitrobenzene-d5	0.150	0.142		5.3	
Phenol-d6	1.59	1.566		1.5	

Paradigm Analytical Laboratories, INC.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD7 Calibration Date: 10/10/05 Time: 17:16

Lab File ID: 1010703.D Init. Calib. Date: 10/03/05

EPA Sample No.: SVCVS06 Init. Calib. Time: 09:12

GC Column: Rtx-5Sil MS ID: 0.25 (mm)

COMPOUND	ICAL RRF	CCAL RRF	MIN RRF	%D	MAX %D
1,2,4-Trichlorobenzene	0.255	0.27		-5.9	
1,2-Dichlorobenzene	1.23	1.329		-8.2	
1,3-Dichlorobenzene	1.35	1.412		-4.9	
1,4-Dichlorobenzene	1.37	1.461		-6.6	20.0
1,4-Dichlorobenzene-D4	1.00	1.000		0.0	
1-Methylnaphthalene	1.29	1.191		7.5	
2,4,5-Trichlorophenol	0.364	0.379		-4.1	
2,4,6-Trichlorophenol	0.349	0.349		0.0	20.0
2,4-Dichlorophenol	0.236	0.238		-0.8	20.0
2,4-Dimethylphenol	0.169	0.142		16.0	
2,4-Dinitrophenol	0.177	0.163	0.050	7.9	
2,4-Dinitrotoluene	0.329	0.341		-3.6	
2,6-Dinitrotoluene	0.270	0.281		-4.1	
2-Chloronaphthalene	1.04	1.074		-3.8	
2-Chlorophenol	1.32	1.381		-4.8	
2-Methylnaphthalene	0.616	0.653		-6.0	
2-Methylphenol	0.972	1.007		-3.6	
2-Nitroaniline	0.324	0.366		-13.0	
2-Nitrophenol	0.183	0.188		-2.7	20.0
3-, 4-Methylphenol	1.41	1.406		0.2	
3-Nitroaniline	0.023	0.027#		-17.4	
4,6-Dinitro-2-methylphenol	0.134	0.126		6.0	
4-bromophenyl phenyl ether	0.177	0.185		-4.5	
4-Chloro-3-methylphenol	0.249	0.258		-3.6	20.0
4-Chloroaniline	0.073	0.121		-65.8	
4-Chlorophenyl phenyl ether	0.524	0.545		-4.0	
4-Nitroaniline	0.140	0.146		-4.3	
4-Nitrophenol	0.140	0.135	0.050	3.6	
Acenaphthene	1.03	1.085		-5.1	20.0
Acenaphthene-d10	1.00	1.000		0.0	
Acenaphthylene	1.48	1.574		-6.0	
Aldrin	0.131	0.153		-16.8	
alpha-BHC	0.118	0.132		-11.9	
Anthracene	0.981	1.051		-7.1	
Azobenzene	0.792	0.863		-9.0	
Benzoic Acid	0.192	0.169		12.0	
Benzo[a]anthracene	1.22	1.246		-1.7	
Benzo[a]pyrene	1.19	1.275		-7.4	20.0
Benzo[b]fluoranthene	1.45	1.506		-3.7	
Benzo[k]fluoranthene	1.36	1.507		-10.3	

Paradigm Analytical Laboratories, INC.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD7 Calibration Date: 10/10/05 Time: 17:16

Lab File ID: 1010703.D Init. Calib. Date: 10/03/05

EPA Sample No.: SVCVS06 Init. Calib. Time: 09:12

GC Column: Rtx-5Sil MS ID: 0.25 (mm)

COMPOUND	ICAL RRF	CCAL RRF	MIN RRF	%D	MAX %D
Benzyl Alcohol	0.835	0.879		-5.3	
beta-BHC	0.103	0.116		-12.6	
Bis(2-chloroethoxy)methane	0.356	0.374		-5.1	
Bis(2-chloroethyl)ether	1.370	1.627		-18.8	
Bis(2-chloroisopropyl)ether	2.226	2.408		-8.2	
Bis(2-ethylhexyl)phthalate	1.229	1.320		-7.4	
Butylbenzylphthalate	0.866	0.940		-8.5	
Carbazole	0.663	0.644		2.9	
Chrysene	1.117	1.210		-8.3	
Chrysene-D12	1.000	1.000		0.0	
delta-BHC	0.095	0.108		-13.7	
Di-n-Butylphthalate	1.287	1.421		-10.4	
Di-n-octylphthalate	2.723	3.030		-11.3	20.0
Dibenzofuran	1.468	1.535		-4.6	
Dibenzo[a,h]anthracene	0.761	0.769		-1.1	
Dieldrin	0.173	0.197		-13.9	
Diethylphthalate	1.196	1.279		-6.9	
Dimethylphthalate	1.195	1.238		-3.6	
Diphenylamine	0.247	0.267		-8.1	
Endosulfan I	0.031	0.036#		-16.1	
Endosulfan II	0.000	0.000#		0.0	
Endosulfan Sulfate	0.041	0.045#		-9.8	
Endrin	0.029	0.031#		-6.9	
Endrin Aldehyde	0.000	0.000#		0.0	
Endrin Ketone	0.030	0.028#		6.7	
Fluoranthene	0.998	1.060		-6.2	20.0
Fluorene	1.105	1.161		-5.1	
gamma-BHC	0.104	0.113		-8.7	
Heptachlor	0.126	0.141		-11.9	
Heptachlor Epoxide	0.043	0.042#		2.3	
Hexachlorobenzene	0.170	0.174		-2.4	
Hexachlorobutadiene	0.124	0.134		-8.1	20.0
Hexachlorocyclopentadiene	0.088	0.078	0.050	11.4	
Hexachloroethane	0.485	0.528		-8.9	
Indeno(1,2,3-c,d)pyrene	0.783	0.175		77.7	
Isophorone	0.526	0.544		-3.4	
Methoxychlor	0.436	0.461		-5.7	
N-Nitrosodi-n-propylamine	0.771	0.769		0.3	
N-Nitrosodimethylamine	0.443	0.312		29.6	
Naphthalene	0.832	0.884		-6.3	

Paradigm Analytical Laboratories, INC.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Instrument ID: MSD7 Calibration Date: 10/10/05 Time: 17:16

Lab File ID: 1010703.D Init. Calib. Date: 10/03/05

EPA Sample No.: SVCVS06 Init. Calib. Time: 09:12

GC Column: Rtx-5Sil MS ID: 0.25 (mm)

COMPOUND	ICAL RRF	CCAL RRF	MIN RRF	%D	MAX %D
Naphthalene-D8	1.000	1.000		0.0	
Nitrobenzene	0.319	0.341		-6.9	
Pentachlorophenol	0.124	0.104		16.1	20.0
Perylene-D12	1.000	1.000		0.0	
Phenanthrene	1.048	1.109		-5.8	
Phenanthrene-D10	1.000	1.000		0.0	
Phenol	1.674	1.818		-8.6	20.0
Pyrene	1.557	1.651		-6.0	
Pyridine	0.651	0.759		-16.6	
2,4,6-Tribromophenol	0.125	0.117		6.4	
2-Fluorobiphenyl	1.19	1.235		-3.6	
2-Fluorophenol	1.15	1.152		-0.2	
4-Terphenyl-d14	1.04	1.087		-4.4	
Nitrobenzene-d5	0.150	0.156		-4.0	
Phenol-d6	1.59	1.644		-3.4	

Paradigm Analytical Laboratories, INC.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No: SAS No.: SDG No.:

EPA Sample No.: SVCVS24 Date Analyzed: 10/07/05

Lab File ID (Standard): 1007702.D Time Analyzed: 11:11

Instrument ID: MSD7 GC Column: Rtx-5Sil MS ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	131054	7.61	549248	9.56	263828	12.37
	UPPER LIMIT	262108	8.11	1098496	10.06	527656	12.87
	LOWER LIMIT	65527	7.11	274624	9.06	131914	11.87
	EPA SAMPLE						
01	G649-2-1O MS	104705	7.6	430666	9.56	208359	12.37
02	G649-2-1P MSD	113224	7.6	454045	9.56	217862	12.37
03	G649-2-1N	113546	7.6	455748	9.55	213810	12.37
04	LCS3780	107436	7.6	433085	9.56	209315	12.37
05	PB3780	101128	7.6	403873	9.55	186569	12.37
06	WWS-1	107769	7.6	429599	9.55	201851	12.37
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits

Paradigm Analytical Laboratories, INC.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:
Lab Code: NC00919 Case No: SAS No.: SDG No.:
EPA Sample No.: SVCVS24 Date Analyzed: 10/07/05
Lab File ID (Standard): 1007702.D Time Analyzed: 11:11
Instrument ID: MSD7 GC Column: Rtx-5Sil MS ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	431141	14.79	298787	19.1	284032	21.73
	UPPER LIMIT	862282	15.29	597574	19.6	142016	22.23
	LOWER LIMIT	215571	14.29	149394	18.6	71008	21.23
	EPA SAMPLE						
01	G649-2-1O MS	337405	14.79	196727	19.08	103861	21.72
02	G649-2-1P MSD	349180	14.79	197719	19.08	94379	21.72
03	G649-2-1N	361417	14.79	190568	19.08	85055	21.72
04	LCS3780	338764	14.78	184836	19.08	101857	21.72
05	PB3780	307219	14.79	162721	19.08	78691	21.72
06	WWS-1	347058	14.79	183111	19.08	84220	21.73
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits

Paradigm Analytical Laboratories, INC.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No: SAS No.: SDG No.:

EPA Sample No.: SVCVS06 Date Analyzed: 10/10/05

Lab File ID (Standard): 1010703.D Time Analyzed: 17:16

Instrument ID: MSD7 GC Column: Rtx-5Sil MS ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	127621	7.56	521759	9.51	256838	12.33
	UPPER LIMIT	255242	8.06	1043518	10.01	513676	12.83
	LOWER LIMIT	63811	7.06	260880	9.01	128419	11.83
	EPA SAMPLE						
01	G161-2182-12D MS	102458	7.57	410738	9.51	197934	12.33
02	G161-2182-12E MSD	121725	7.57	479971	9.52	230630	12.33
03	G161-2182-12C	107352	7.56	422877	9.51	202339	12.32
04	LCS3790	94307	7.56	380174	9.51	179798	12.33
05	PB3790	110489	7.56	440905	9.51	211832	12.32
06	WS-1-5	112958	7.56	423564	9.52	208358	12.35
07	WS-2-5	110774	7.56	438418	9.51	205473	12.32
08	WS-2-10	102124	7.56	399346	9.51	189477	12.32
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits

Paradigm Analytical Laboratories, INC.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:
Lab Code: NC00919 Case No: SAS No.: SDG No.:
EPA Sample No.: SVCVS06 Date Analyzed: 10/10/05
Lab File ID (Standard): 1010703.D Time Analyzed: 17:16
Instrument ID: MSD7 GC Column: Rtx-5Sil MS ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	415175	14.74	266605	19.03	189283	21.64
	UPPER LIMIT	830350	15.24	533210	19.53	378566	22.14
	LOWER LIMIT	207588	14.24	133303	18.53	94642	21.14
	EPA SAMPLE						
01	G161-2182-12D MS	317725	14.74	210220	19.03	135233	21.64
02	G161-2182-12E MSD	366798	14.74	245024	19.04	164234	21.64
03	G161-2182-12C	332614	14.73	200604	19.03	109341	21.64
04	LCS3790	292294	14.74	194393	19.03	131246	21.64
05	PB3790	358680	14.73	234293	19.03	172165	21.64
06	WS-1-5	343462	14.76	244851	19.03	143733	21.64
07	WS-2-5	328868	14.73	186322	19.03	97970	21.64
08	WS-2-10	308169	14.73	193979	19.03	106168	21.64
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits

Paradigm Analytical Laboratories, INC.

LABORATORY CONTROL SAMPLE SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Paradigm Analytical Laboratories, INC.

Lab Code: NC00919 Case No.: SAS No.: SDG No:

Matrix: (soil/water) WATER — Lab Sample ID: LCS3780

Sample wt/vol: 5 (mL) — Lab File ID: 1007715.D

Level: (low/med) LOW

% Moisture: NA Decanted:(Y/N) NA — Date Analyzed: 10/07/05 19:17

Concentrated Extract Volume: 5 (mL) — Dilution Factor: 1

Injection Volume: 1 (µL) — Extraction: (Type) CONT

GPC Cleanup: N

CAS NO.	COMPOUND	SPIKE AMT (µg/L)	SAMP CONC (µg/L)	% REC #	QC LIMITS
83-32-9	Acenaphthene	100	96.1	96.1	61.6-101
208-96-8	Acenaphthylene	100	107	107	66.1-116
120-12-7	Anthracene	100	91.1	91.1	48.7-94.6
56-55-3	Benzo[a]anthracene	100	95.7	95.7	67.4-101
50-32-8	Benzo[a]pyrene	100	101	101	41.6-102
205-99-2	Benzo[b]fluoranthene	100	105	105	37.4-108
191-24-2	Benzo[g,h,i]perylene	100	88.8	88.8	42.0-113
207-08-9	Benzo[k]fluoranthene	100	117	117	29.6-126
65-85-0	Benzoic Acid	100	74.7	74.7	29.5-107
100-51-6	Benzyl Alcohol	100	79.7	79.7	61.6-98.5
111-91-1	Bis(2-chloroethoxy)methane	100	93.1	93.1	56.4-10.0
111-44-4	Bis(2-chloroethyl)ether	100	82.4	82.4	44.6-93.2
108-60-1	Bis(2-chloroisopropyl)ether	100	89.3	89.3	53.5-102
117-81-7	Bis(2-ethylhexyl)phthalate	100	101	101	47.2-121
101-55-3	4-bromophenyl phenyl ether	100	94.2	94.2	42.1-110
85-68-7	Butylbenzylphthalate	100	106	106	52.8-120
106-47-8	4-Chloroaniline	100	216	216	10.0-248
59-50-7	4-Chloro-3-methylphenol	100	93.1	93.1	64.3-97.6
91-58-7	2-Chloronaphthalene	100	95.6	95.6	59.0-100
95-57-8	2-Chlorophenol	100	86.1	86.1	56.9-93.4
7005-72-3	4-Chlorophenyl phenyl ether	100	94.7	94.7	64.4-106
218-01-9	Chrysene	100	101	101	65.8-106
84-74-2	Di-n-Butylphthalate	100	99.6	99.6	61.8-110
117-84-0	Di-n-octylphthalate	100	122	122*	21.0-118
53-70-3	Dibenzo[a,h]anthracene	100	96.8	96.8	40.6-112
132-64-9	Dibenzofuran	100	87.6	87.6	69.2-103
95-50-1	1,2-Dichlorobenzene	100	83.0	83.0	24.2-91.0
541-73-1	1,3-Dichlorobenzene	100	78.5	78.5	18.0-84.5
106-46-7	1,4-Dichlorobenzene	100	80.6	80.6	20.6-82.8
91-94-1	3,3'-Dichlorobenzidine	100	203	203	10.0-360
120-83-2	2,4-Dichlorophenol	100	89.3	89.3	57.9-96.6
84-66-2	Diethylphthalate	100	100	100	65.8-102
105-67-9	2,4-Dimethylphenol	100	108	108	18.2-110
131-11-3	Dimethylphthalate	100	94.6	94.6	60.2-99.5
534-52-1	4,6-Dinitro-2-methylphenol	100	35.3	35.3*	40.4-103
51-28-5	2,4-Dinitrophenol	100	29.1	29.1*	40.5-106
121-14-2	2,4-Dinitrotoluene	100	90.9	90.9	63.7-116
606-20-2	2,6-Dinitrotoluene	100	92.2	92.2	61.6-99.2
206-44-0	Fluoranthene	100	91.9	91.9	64.0-103
86-73-7	Fluorene	100	97.6	97.6	67.2-102
118-74-1	Hexachlorobenzene	100	94.0	94.0	45.0-112

Paradigm Analytical Laboratories, INC.

LABORATORY CONTROL SAMPLE SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Paradigm Analytical Laboratories, INC.

Lab Code: NC00919 Case No.: SAS No.: SDG No:

Matrix: (soil/water) WATER — Lab Sample ID: LCS3780

Sample wt/vol: 5 (mL) — Lab File ID: 1007715.D

Level: (low/med) LOW

% Moisture: NA Decanted:(Y/N) NA — Date Analyzed: 10/07/05 19:17

Concentrated Extract Volume: 5 (mL) — Dilution Factor: 1

Injection Volume: 1 (µL) — Extraction: (Type) CONT

GPC Cleanup: N

CAS NO.	COMPOUND	SPIKE AMT (µg/L)	SAMP CONC (µg/L)	% REC #	QC LIMITS
87-68-3	Hexachlorobutadiene	100	88.5	88.5	26.0-94.3
77-47-4	Hexachlorocyclopentadiene	100	14.0	14.0	10.0-126
67-72-1	Hexachloroethane	100	64.6	64.6	10.0-89.9
193-39-5	Indeno(1,2,3-c,d)pyrene	100	88.0	88.0	42.8-105
78-59-1	Isophorone	100	103	103	62.3-112
90-12-0	1-Methylnaphthalene	100	83.6	83.6	58.1-105
91-57-6	2-Methylnaphthalene	100	87.6	87.6	57.9-103
95-48-7	2-Methylphenol	100	90.4	90.4	58.9-96.1
108-39-4	4-Methylphenol	200	153	76.3	48.4-99.9
621-64-7	N-Nitrosodi-n-propylamine	100	81.3	81.3	62.6-108
86-30-6	Diphenylamine	100	284	284*	10.0-214
91-20-3	Naphthalene	100	94.5	94.5	46.1-10.0
88-74-4	2-Nitroaniline	100	100	100	68.9-121
99-09-2	3-Nitroaniline	100	85.4	85.4	10.0-649
100-01-6	4-Nitroaniline	100	163	163*	50.1-137
98-95-3	Nitrobenzene	100	96.2	96.2	52.4-97.2
88-75-5	2-Nitrophenol	100	79.0	79.0	49.9-93.7
100-02-7	4-Nitrophenol	100	105	105	53.7-125
87-86-5	Pentachlorophenol	100	70.3	70.3	37.0-102
85-01-8	Phenanthrene	100	95.7	95.7	59.5-107
108-95-2	Phenol	100	84.7	84.7	57.4-99.5
129-00-0	Pyrene	100	109	109	44.1-124
120-82-1	1,2,4-Trichlorobenzene	100	88.2	88.2	37.6-97.9
95-95-4	2,4,5-Trichlorophenol	100	89.5	89.5	59.4-96.8
88-06-2	2,4,6-Trichlorophenol	100	88.3	88.3	57.6-94.8

Paradigm Analytical Laboratories, INC.

LABORATORY CONTROL SAMPLE SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Paradigm Analytical Laboratories, INC.

Lab Code: NC00919 Case No.: SAS No.: SDG No:

Matrix: (soil/water) SOIL — Lab Sample ID: LCS3790

Sample wt/vol: 32 (g) — Lab File ID: 1010705.D

Level: (low/med) LOW

% Moisture: 0% Decanted:(Y/N) N — Date Analyzed: 10/10/05 18:30

Concentrated Extract Volume: 10 (mL) — Dilution Factor: 1

Injection Volume: 1 (µL) — Extraction: (Type) SOXH

GPC Cleanup: N

CAS NO.	COMPOUND	SPIKE AMT (µg/kg)	SAMP CONC (µg/kg)	% REC #	QC LIMITS
83-32-9	Acenaphthene	3125	4000	128*	78.1-122
208-96-8	Acenaphthylene	3125	4570	146*	80.8-137
120-12-7	Anthracene	3125	3880	124*	73.3-118
56-55-3	Benzo[a]anthracene	3125	3900	125	55.7-129
50-32-8	Benzo[a]pyrene	3125	4340	139*	90.1-135
205-99-2	Benzo[b]fluoranthene	3125	4010	128	71.6-136
191-24-2	Benzo[g,h,i]perylene	3125	4210	135	65.6-140
207-08-9	Benzo[k]fluoranthene	3125	4650	149*	85.2-142
65-85-0	Benzoic Acid	3125	2680	85.6	0.00-115
100-51-6	Benzyl Alcohol	3125	3410	109	58.0-125
111-91-1	Bis(2-chloroethoxy)methane	3125	3760	120	74.7-123
111-44-4	Bis(2-chloroethyl)ether	3125	3660	117*	69.6-116
108-60-1	Bis(2-chloroisopropyl)ether	3125	3800	122	66.7-123
117-81-7	Bis(2-ethylhexyl)phthalate	3125	4010	128	73.1-133
101-55-3	4-bromophenyl phenyl ether	3125	3910	125	71.0-125
85-68-7	Butylbenzylphthalate	3125	4070	130*	69.7-130
106-47-8	4-Chloroaniline	3125	6130	196	38.6-208
59-50-7	4-Chloro-3-methylphenol	3125	3760	120*	83.9-114
91-58-7	2-Chloronaphthalene	3125	3900	125*	77.8-120
95-57-8	2-Chlorophenol	3125	3540	113*	80.3-109
7005-72-3	4-Chlorophenyl phenyl ether	3125	3910	125*	80.8-121
218-01-9	Chrysene	3125	4130	132*	80.6-124
84-74-2	Di-n-Butylphthalate	3125	4160	133*	72.6-126
117-84-0	Di-n-octylphthalate	3125	4210	135	50.7-172
53-70-3	Dibenzo[a,h]anthracene	3125	4320	138	59.6-146
132-64-9	Dibenzofuran	3125	3620	116*	80.3-109
95-50-1	1,2-Dichlorobenzene	3125	3860	124*	80.0-121
541-73-1	1,3-Dichlorobenzene	3125	3780	121*	75.5-120
106-46-7	1,4-Dichlorobenzene	3125	3840	123*	76.2-118
91-94-1	3,3'-Dichlorobenzidine	3125	8220	263	37.4-282
120-83-2	2,4-Dichlorophenol	3125	3500	112	78.3-113
84-66-2	Diethylphthalate	3125	4060	130*	77.1-126
105-67-9	2,4-Dimethylphenol	3125	5600	179*	83.1-138
131-11-3	Dimethylphthalate	3125	3840	123*	74.7-120
534-52-1	4,6-Dinitro-2-methylphenol	3125	3370	108	45.1-126
51-28-5	2,4-Dinitrophenol	3125	3160	101	34.9-124
121-14-2	2,4-Dinitrotoluene	3125	4030	129*	80.6-126
606-20-2	2,6-Dinitrotoluene	3125	4030	129*	76.5-127
206-44-0	Fluoranthene	3125	4070	130*	72.8-129
86-73-7	Fluorene	3125	4040	129*	82.3-124
118-74-1	Hexachlorobenzene	3125	3920	126*	68.4-124

Paradigm Analytical Laboratories, INC.

LABORATORY CONTROL SAMPLE SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Paradigm Analytical Laboratories, INC.

Lab Code: NC00919 Case No.: SAS No.: SDG No:

Matrix: (soil/water) SOIL — Lab Sample ID: LCS3790

Sample wt/vol: 32 (g) — Lab File ID: 1010705.D

Level: (low/med) LOW

% Moisture: 0% Decanted:(Y/N) N — Date Analyzed: 10/10/05 18:30

Concentrated Extract Volume: 10 (mL) — Dilution Factor: 1

Injection Volume: 1 (µL) — Extraction: (Type) SOXH

GPC Cleanup: N

CAS NO.	COMPOUND	SPIKE AMT (µg/kg)	SAMP CONC (µg/kg)	% REC #	QC LIMITS
87-68-3	Hexachlorobutadiene	3125	3820	122*	73.8-119
77-47-4	Hexachlorocyclopentadiene	3125	5540	177*	3.76-170
67-72-1	Hexachloroethane	3125	3880	124*	73.7-124
193-39-5	Indeno(1,2,3-c,d)pyrene	3125	4020	128	33.0-158
78-59-1	Isophorone	3125	4170	134	71.4-142
90-12-0	1-Methylnaphthalene	3125	3520	113	82.9-117
91-57-6	2-Methylnaphthalene	3125	3580	114*	80.7-109
95-48-7	2-Methylphenol	3125	3710	119*	82.7-113
108-39-4	4-Methylphenol	6250	6200	99.2	72.0-101
621-64-7	N-Nitrosodi-n-propylamine	3125	3450	110	80.3-131
86-30-6	Diphenylamine	3125	11600	370*	79.1-207
91-20-3	Naphthalene	3125	3860	124*	77.2-121
88-74-4	2-Nitroaniline	3125	4170	133*	75.4-124
99-09-2	3-Nitroaniline	3125	3770	121	105-334
100-01-6	4-Nitroaniline	3125	4610	147	52.9-174
98-95-3	Nitrobenzene	3125	3960	127*	73.6-123
88-75-5	2-Nitrophenol	3125	3480	111*	67.0-110
100-02-7	4-Nitrophenol	3125	4330	138*	60.0-129
87-86-5	Pentachlorophenol	3125	3110	99.5	36.4-104
85-01-8	Phenanthrene	3125	3930	126*	76.2-117
108-95-2	Phenol	3125	3300	105	74.3-117
129-00-0	Pyrene	3125	4000	128	74.7-140
120-82-1	1,2,4-Trichlorobenzene	3125	3710	119	74.1-120
95-95-4	2,4,5-Trichlorophenol	3125	3660	117*	81.4-111
88-06-2	2,4,6-Trichlorophenol	3125	3600	115*	74.8-111

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: ECS

Project Name: Wolth Property

Sample Information and Analytical Results	
Sample Identification	WS-1-5
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	10/04/05
Date Received	10/06/05
Date Extracted	10/04/05
Date Analyzed	10/11/05
Dry Weight	65
Dilution Factor	1
C_5-C_8 Aliphatics**	< 10 (mg/Kg)
C_9-C_{12} Aliphatics**	61 (mg/Kg)
C_9-C_{10} Aromatics**	81 (mg/Kg)
Surrogate % Recovery - PID	230***
Surrogate % Recovery - FID	210***

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

***= High surrogate recovery due to matrix interference

Lab Info: g161-2180-1d

Reviewed By:

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: ECS

Project Name: Wolth Property

Sample Information and Analytical Results	
Sample Identification	WS-2-5
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	10/04/05
Date Received	10/06/05
Date Extracted	10/04/05
Date Analyzed	10/11/05
Dry Weight	87
Dilution Factor	1
C_5-C_8 Aliphatics**	< 10 (mg/Kg)
C_9-C_{12} Aliphatics**	< 10 (mg/Kg)
C_9-C_{10} Aromatics**	< 10 (mg/Kg)
Surrogate % Recovery - PID	100
Surrogate % Recovery - FID	100

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g161-2180-2d

Reviewed By: [illegible]

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: ECS

Project Name: Wolth Property

Sample Information and Analytical Results	
Sample Identification	WS-2-10
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	10/04/05
Date Received	10/06/05
Date Extracted	10/04/05
Date Analyzed	10/11/05
Dry Weight	72
Dilution Factor	1
C_5-C_8 Aliphatics**	< 10 (mg/Kg)
C_9-C_{12} Aliphatics**	< 10 (mg/Kg)
C_9-C_{10} Aromatics**	< 10 (mg/Kg)
Surrogate % Recovery - PID	100
Surrogate % Recovery - FID	110

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g161-2180-3d

Reviewed By:

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: ECS

Project Name: Wolth Property

Sample Information and Analytical Results	
Sample Identification	WWS-1
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	10/05/05
Date Received	10/06/05
Date Extracted	10/07/05
Date Analyzed	10/07/05
Dry Weight	
Dilution Factor	1
C_5-C_8 Aliphatics**	< 100 (µg/L)
C_9-C_{12} Aliphatics**	< 100 (µg/L)
C_9-C_{10} Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	98
Surrogate % Recovery - FID	100

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g161-2180-5d

Reviewed By:

Paradigm Analytical Laboratories, INC.

II

VPH SURROGATE RECOVERY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

	EPA SAMPLE NO.	LAB SAMPLE ID	FILENAME	S1 (FID) #	S2 (PID) #	QC LIMITS	TOT OUT
01	WS-1-5	G161-2180-1D	022F0101.D	210	230	70-130	2
02	WS-2-5	G161-2180-2D	024F0101.D	100	100	70-130	0
03	WS-2-10	G161-2180-3D	023F0101.D	110	100	70-130	0
04	WWS-1	G161-2180-5D	025F0101.D	100	98	70-130	0
05							
06							
07							
08							
09							
10							
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35							

S1 (FID) = 4-bromofluorobenzene
S2 (PID) = 4-bromofluorobenzene

Paradigm Analytical Laboratories, INC.

IV

VPH METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK4101105A

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab Sample ID: VBLK4101105A Lab File ID: 006F0101.D

Date Analyzed: 2005-10-11 Instrument ID: GC4

Time Analyzed: 09:59 GC Column:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	FILENAME	DATE ANALYZED
01	WS-1-5	G161-2180-1D	022F0101.D	2005-10-11 19:10
02	WS-2-10	G161-2180-3D	023F0101.D	2005-10-11 19:34
03	WS-2-5	G161-2180-2D	024F0101.D	2005-10-11 19:59
04				
05				
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COMMENTS: _____

Paradigm Analytical Laboratories, INC.

IV

VPH METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK4100705A

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab Sample ID: VBLK4100705A Lab File ID: 006F0101.D

Date Analyzed: 2005-10-07 Instrument ID: GC4

Time Analyzed: 12:16 GC Column:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	FILENAME	DATE ANALYZED
01	WWS-1	G161-2180-5D	025F0101.D	2005-10-07 22:04
02				
03				
04				
05				
06				
07				
08				
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COMMENTS:

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: _____

Project Name: _____

Sample Information and Analytical Results	
Sample Identification	Method Blank
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	
Date Received	
Date Extracted	
Date Analyzed	10/07/05
Dry Weight	
Dilution Factor	1
C_5-C_8 Aliphatics**	< 100 (µg/L)
C_9-C_{12} Aliphatics**	< 100 (µg/L)
C_9-C_{10} Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	100
Surrogate % Recovery - FID	100

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil

** = Excludes any surrogates or internal standards.

Lab Info: VBLK4100705A

Reviewed By: _____

LCS Results for VPH
by MDEP-VPH

Client Sample ID:	LCS	Date Analyzed.	10/7/2005
Client Project ID:		Analyzed By:	DCS
Lab Sample ID:	VLCS4100705	Date Collected:	
Lab Project ID:		Date Received.	
Matrix:	Water	Dilution:	1 0

Compound	Spike ug/L	LCS ug/L	Percent Recovery	Recovery Limits Low	High
C_5-C_8 Aliphatics		260			
C_9-C_{12} Aliphatics		120			
C_9-C_{10} Aromatics		56			
Gasoline	500	436	87	70	130

Reviewed By:

Comments:
BQL = Below Quantitation Limit

MS/MSD Results for VPH
by MDEP-VPH

Client Sample ID:	Batch QC	Date Analyzed:	10/7/2005
Client Project ID:		Analyzed By:	MJC
Lab Sample ID:	QC100705	Date Collected:	
Lab Project ID:		Date Received:	
Matrix:	Water	Dilution:	1 0

Compound	Sample ug/L	MS ug/L	MSD ug/L
C_5-C_8 Aliphatics	BQL	290	280
C_9-C_{12} Aliphatics	BQL	150	160
C_9-C_{10} Aromatics	BQL	84	83

		Total	%Rec	Total	%Rec	RPD
Gasoline	BQL	524	105%	523	105%	0.2

Reviewed By: MW

Comments:
BQL = Below Quantitation Limit

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: _____

Project Name: _____

Sample Information and Analytical Results	
Sample Identification	Method Blank
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	
Date Received	
Date Extracted	
Date Analyzed	10/11/05
Dry Weight	100
Dilution Factor	1
C_5-C_8 Aliphatics**	< 10 (mg/Kg)
C_9-C_{12} Aliphatics**	< 10 (mg/Kg)
C_9-C_{10} Aromatics**	< 10 (mg/Kg)
Surrogate % Recovery - PID	100
Surrogate % Recovery - FID	100

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil

** = Excludes any surrogates or internal standards

Lab Info: VBLK4101105a

Reviewed By: _____

LCS Results for VPH
by MDEP-VPH

Client Sample ID:	LCS	Date Analyzed:	10/11/2005
Client Project ID:		Analyzed By:	DCS
Lab Sample ID:	VLCS4101105a	Date Collected:	
Lab Project ID:		Date Received:	
Matrix:	Soil	Dilution:	1.0

Compound	Spike mg/kg	LCS mg/kg	Percent Recovery	Recovery Limits Low	Recovery Limits High
C_5-C_8 Aliphatics		23			
C_9-C_{12} Aliphatics		9.8			
C_9-C_{10} Aromatics		4.4			
Gasoline	40	37	93	70	130

Reviewed By: _____

Comments:
BQL = Below Quantitation Limit

MS/MSD Results for VPH
by MDEP-VPH

Client Sample ID:	Batch QC	Date Analyzed:	10/11/2005
Client Project ID:		Analyzed By:	DCS
Lab Sample ID:	QC101105	Date Collected:	
Lab Project ID:		Date Received:	
Matrix:	Soil	Dilution:	1.0

Compound	Sample mg/kg	MS mg/kg	MSD mg/kg
C_5-C_8 Aliphatics	BQL	19	19
C_9-C_{12} Aliphatics	BQL	9.5	9.5
C_9-C_{10} Aromatics	BQL	4.2	4.2

		Total	%Rec	Total	%Rec	RPD
Gasoline	BQL	33	82%	33	82%	0.0

Reviewed By: _____

Comments:
BQL = Below Quantitation Limit

Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 09/27/05 PID Initial Calibration Date: 09/27/05

Calibration Ranges and Limits

Range	MDL (07/15/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_5-C_8 Aliphatics	4.4	14	100	10
C_9-C_{12} Aliphatics	3.4	11	100	10
C_9-C_{10} Aromatics	0.13	0.41	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	%RSD or CCC	Method of Quantitation
C_5-C_8 Aliphatics	40	19.9	Calibration Factor
	1000		
	2000		
	3000		
	4000		
C_9-C_{12} Aliphatics	10	0.99	Linear Regression
	250		
	500		
	750		
	1000		
C_9-C_{10} Aromatics	10	0.99	Linear Regression
	250		
	500		
	750		
	1000		

Calibration Check Date: 10/07/05

Calibration Check

Range	Levels (µg/L)	Levels (mg/Kg)	RPD
C_5-C_8 Aliphatics	2000	200	-0.7
C_9-C_{12} Aliphatics	500	50	-16.5
C_9-C_{10} Aromatics	500	50	-11.4

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 09/27/05 PID Initial Calibration Date: 09/27/05

Calibration Ranges and Limits

Range	MDL (07/15/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_5-C_8 Aliphatics	4.4	14	100	10
C_9-C_{12} Aliphatics	3.4	11	100	10
C_9-C_{10} Aromatics	0.13	0.41	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	%RSD or CCC	Method of Quantitation
C_5-C_8 Aliphatics	40	19.9	Calibration Factor
	1000		
	2000		
	3000		
	4000		
C_9-C_{12} Aliphatics	10	0.99	Linear Regression
	250		
	500		
	750		
	1000		
C_9-C_{10} Aromatics	10	0.99	Linear Regression
	250		
	500		
	750		
	1000		

Calibration Check Date: 10/11/05

Calibration Check

Range	Levels (µg/L)	Levels (mg/Kg)	RPD
C_5-C_8 Aliphatics	2000	200	1.2
C_9-C_{12} Aliphatics	500	50	-11.9
C_9-C_{10} Aromatics	500	50	-7.0

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: ECS

Project Name: Wolth Property

Sample Information and Analytical Results	
Sample Identification	WS-1-5
Sample Matrix	Soil
Date Collected	10/04/05
Date Received	10/06/05
Date Extracted	10/07/05
Date Analyzed	10/17/05
Dry Weight	65.1
Dilution Factor	2:1
C_9-C_{18} Aliphatics*	2200 (mg/Kg)
C_{19}-C_{36} Aliphatics*	160 (mg/Kg)
C_{11}-C_{22} Aromatics*	620 (mg/Kg)
Aliphatic Surrogate % Recovery	100
Aromatic Surrogate % Recovery	72
Fractionation Surrogate 1 % Recovery	47

Comments:

* = Excludes any surrogates or internal standards.

Lab info: G161-2180-1I

Reviewed By:

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: ECS

Project Name: Wolth Property

Sample Information and Analytical Results	
Sample Identification	WS-2-5
Sample Matrix	Soil
Date Collected	10/04/05
Date Received	10/06/05
Date Extracted	10/07/05
Date Analyzed	10/10/05
Dry Weight	87.1
Dilution Factor	1
C_9-C_{18} Aliphatics*	< 10 (mg/Kg)
C_{19}-C_{36} Aliphatics*	< 10 (mg/Kg)
C_{11}-C_{22} Aromatics*	< 10 (mg/Kg)
Aliphatic Surrogate % Recovery	100
Aromatic Surrogate % Recovery	99

Comments:

* = Excludes any surrogates or internal standards.
Sample did not require fractionation.

Lab info: G161-2180-2I

Reviewed By:

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: ECS

Project Name: Wolth Property

Sample Information and Analytical Results	
Sample Identification	WS-2-10
Sample Matrix	Soil
Date Collected	10/04/05
Date Received	10/06/05
Date Extracted	10/07/05
Date Analyzed	10/10/05
Dry Weight	72.4
Dilution Factor	1
C_9-C_{18} Aliphatics*	< 10 (mg/Kg)
C_{19}-C_{36} Aliphatics*	< 10 (mg/Kg)
C_{11}-C_{22} Aromatics*	< 10 (mg/Kg)
Aliphatic Surrogate % Recovery	96
Aromatic Surrogate % Recovery	91

Comments:

* = Excludes any surrogates or internal standards.
Sample did not require fractionation.

Lab info: G161-2180-3I

Reviewed By:

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: ECS

Project Name: Wolth Property

Sample Information and Analytical Results	
Sample Identification	WWS-1
Sample Matrix	Water
Date Collected	10/05/05
Date Received	10/06/05
Date Extracted	10/07/05
Date Analyzed	10/07/05
Dry Weight	
Dilution Factor	1
C_9-C_{18} Aliphatics*	< 100 (ug/L)
C_{19}-C_{36} Aliphatics*	< 100 (ug/L)
C_{11}-C_{22} Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	62
Aromatic Surrogate % Recovery	75

Comments:

* = Excludes any surrogates or internal standards

Sample did not require fractionation

Lab info: G161-2180-5J

Reviewed By:

Paradigm Analytical Laboratories, INC.

II

EPH SURROGATE RECOVERY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

	EPA SAMPLE NO.	LAB SAMPLE ID	S1 (COD) #	S2 (OTP) #	S3 (frac) #	QC LIMITS	TOT OUT
01	WS-1-5	G161-2180-1I	100	72	47	40 - 140	0
02	WS-2-5	G161-2180-2I	100	99	--	40 - 140	0
03	WS-2-10	G161-2180-3I	96	91	--	40 - 140	0
04	WWS-1	G161-2180-5J	62	75	--	40 - 140	0
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
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35							

S1 (COD) = Chloro-octadecane
S2 (OTP) = ortho-terphenyl
S3 (frac) = 2-Bromonaphthalene

Paradigm Analytical Laboratories, INC.

4C

EPH METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB3791

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab Sample ID: PB3791 Extraction: (Type) 3540

Matrix: (soil/water) SOIL Date Extracted: 2005-10-07

GC Column: RTX-5

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID
01	WS-1-5	G161-2180-1I
02	WS-2-5	G161-2180-2I
03	WS-2-10	G161-2180-3I
04		
05		
06		
07		
08		
09		
10		
11		
12		
13		
14		
15		
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COMMENTS:

Paradigm Analytical Laboratories, INC.

4C

EPH METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB3787

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab Sample ID: PB3787 Extraction: (Type) 3520

Matrix: (soil/water) WATER Date Extracted: 2005-10-07

GC Column: RTX-5

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID
01	WWS-1	G161-2180-5J
02		
03		
04		
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COMMENTS:

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: _____

Project Name: _____

Sample Information and Analytical Results	
Sample Identification	Method Blank
Sample Matrix	Water
Date Collected	
Date Received	
Date Extracted	10/07/05
Date Analyzed	10/10/05
Dry Weight	
Dilution Factor	1
C_9-C_{18} Aliphatics*	< 100 (ug/L)
C_{19}-C_{36} Aliphatics*	< 100 (ug/L)
C_{11}-C_{22} Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	54
Aromatic Surrogate % Recovery	45

Comments:

* = Excludes any surrogates or internal standards

Sample did not require fractionation

Lab info: pb3787

Reviewed By: _____

LCS Results for EPH
by MDEP-EPH

Client Sample ID:	LCS	Date Analyzed:	10/12/2005
Client Project ID:		Analyzed By:	DCS
Lab Sample ID:	lcs3787	Date Collected:	
Lab Project ID:		Date Received:	
Matrix:	Water	Dilution:	1.0

Compound	Spike ug/L	LCS ug/L	Percent Recovery	Recovery Limits Low	High
C_9-C_{18} Aliphatics		1200			
C_{19}-C_{36} Aliphatics		140			
C_{11}-C_{22} Aromatics		220			
Diesel	2000	1560	78	40	140

Reviewed By: _____

Comments:
BQL = Below Quantitation Limit

MS/MSD Results for EPH
by MDEP-EPH

Client Sample ID:	Batch QC	Date Analyzed:	10/12/2005
Client Project ID:		Analyzed By:	DCS
Lab Sample ID:	QC3787	Date Collected:	
Lab Project ID:		Date Received:	
Matrix:	Water	Dilution:	1.0

Compound	Sample ug/L	MS ug/L	MSD ug/L
C_9-C_{18} Aliphatics	BQL	1300	1200
C_{19}-C_{36} Aliphatics	BQL	150	140
C_{11}-C_{22} Aromatics	BQL	230	220

		Total	%Rec	Total	%Rec	RPD
Diesel	BQL	1680	84%	1560	78%	7.4

Reviewed By:

Comments:
BQL = Below Quantitation Limit

MS/MSD Results for EPH
by MDEP-EPH

Client Sample ID:	Batch QC	Date Analyzed:	10/12/2005
Client Project ID:		Analyzed By:	DCS
Lab Sample ID:	QC3791	Date Collected:	
Lab Project ID:		Date Received:	
Matrix:	Soil	Dilution:	1 0

Compound	Sample mg/kg	MS mg/kg	MSD mg/kg
C_9-C_{18} Aliphatics	77	270	230
C_{19}-C_{36} Aliphatics	BQL	24	30
C_{11}-C_{22} Aromatics	13	30	20

		Total	%Rec	Total	%Rec	RPD
Diesel	90	324	140%	280	114%	20.8

Reviewed By: _____

Comments:
BQL = Below Quantitation Limit

LCS Results for EPH
by MDEP-EPH

Client Sample ID:	LCS	Date Analyzed:	10/14/2005
Client Project ID:		Analyzed By:	DCS
Lab Sample ID:	LCS3791	Date Collected:	
Lab Project ID:		Date Received:	
Matrix:	Soil	Dilution:	1.0

Compound	Spike mg/kg	LCS mg/kg	Percent Recovery	Recovery Limits Low	High
C_9-C_{18} Aliphatics		79			
C_{19}-C_{36} Aliphatics		8.9			
C_{11}-C_{22} Aromatics		15			
Diesel	167	103	62	40	140

Reviewed By:

Comments:
BQL = Below Quantitation Limit

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: _____

Project Name: _____

Sample Information and Analytical Results	
Sample Identification	Method Blank
Sample Matrix	Soil
Date Collected	
Date Received	
Date Extracted	10/07/05
Date Analyzed	10/10/05
Dry Weight	100
Dilution Factor	1
C_9-C_{18} Aliphatics*	< 10 (mg/Kg)
C_{19}-C_{36} Aliphatics*	< 10 (mg/Kg)
C_{11}-C_{22} Aromatics*	< 10 (mg/Kg)
Aliphatic Surrogate % Recovery	100
Aromatic Surrogate % Recovery	100

Comments:

* = Excludes any surrogates or internal standards
Sample did not require fractionation

Lab info: pb3791

Reviewed By: _____

Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 09/13/05

Calibration Ranges and Limits

Range	MDL (2/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_9-C_{18} Aliphatics	3.84	12.2	100	10
C_{19}-C_{36} Aliphatics	0.57	1.8	100	10
C_{11}-C_{22} Aromatics	4.54	14.4	100	10

Calibration Concentration Levels

Range	Levels (µg/mL)	%RSD or CCC	Method of Quantitation
C_9-C_{18} Aliphatics	6	3.80	Calibration Factor
	30		
	60		
	120		
	240		
C_{19}-C_{36} Aliphatics	8	3.8	Calibration Factor
	40		
	80		
	160		
	320		
C_{11}-C_{22} Aromatics	17	7.9	Calibration Factor
	85		
	170		
	340		
	680		

Calibration Check Date: 10/07/05

Calibration Check

Range	Levels (µg/mL)	RPD
C_9-C_{18} Aliphatics	120	-18.2
C_{19}-C_{36} Aliphatics	160	-10.2
C_{11}-C_{22} Aromatics	340	-10.0

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 09/13/05

Calibration Ranges and Limits

Range	MDL (2/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_9-C_{18} Aliphatics	3.84	12.2	100	10
C_{19}-C_{36} Aliphatics	0.57	1.8	100	10
C_{11}-C_{22} Aromatics	4.54	14.4	100	10

Calibration Concentration Levels

Range	Levels (µg/mL)	%RSD or CCC	Method of Quantitation
C_9-C_{18} Aliphatics	6	3.80	Calibration Factor
	30		
	60		
	120		
	240		
C_{19}-C_{36} Aliphatics	8	3.8	Calibration Factor
	40		
	80		
	160		
	320		
C_{11}-C_{22} Aromatics	17	7.9	Calibration Factor
	85		
	170		
	340		
	680		

Calibration Check Date: 10/17/05

Calibration Check

Range	Levels (µg/mL)	RPD
C_9-C_{18} Aliphatics	120	-7.1
C_{19}-C_{36} Aliphatics	160	-11.2
C_{11}-C_{22} Aromatics	340	-10.0

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

Results for Volatiles
by GC 601

Client Sample ID: WWS-1
Client Project ID: Wolth Property
Lab Sample ID: G161-2180-5A
Lab Project ID: G161-2180

Analyzed By: MJC
Date Collected: 10/5/2005 9:52
Date Received: 10/6/2005
Matrix: Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Bromodichloromethane	BQL	1.00	1	10/10/2005
Bromoform	BQL	2.00	1	10/10/2005
Bromomethane	BQL	1.00	1	10/10/2005
Carbon tetrachloride	BQL	1.00	1	10/10/2005
Chlorobenzene	BQL	1.00	1	10/10/2005
Chloroethane	BQL	1.00	1	10/10/2005
Chloroform	BQL	1.00	1	10/10/2005
Chloromethane	BQL	1.00	1	10/10/2005
Dibromochloromethane	BQL	1.00	1	10/10/2005
1,2-Dibromoethane (EDB)	BQL	1.00	1	10/10/2005
1,2-Dichlorobenzene	BQL	1.00	1	10/10/2005
1,3-Dichlorobenzene	BQL	1.00	1	10/10/2005
1,4-Dichlorobenzene	BQL	1.00	1	10/10/2005
1,1-Dichloroethane	BQL	1.00	1	10/10/2005
1,2-Dichloroethane	BQL	1.00	1	10/10/2005
1,1-Dichloroethene	BQL	1.00	1	10/10/2005
cis-1,2-Dichloroethene	BQL	1.00	1	10/10/2005
trans-1,2-Dichloroethene	BQL	1.00	1	10/10/2005
1,2-Dichloropropane	BQL	1.00	1	10/10/2005
cis-1,3-Dichloropropene	BQL	1.00	1	10/10/2005
trans-1,3-Dichloropropene	BQL	1.00	1	10/10/2005
Methylene Chloride	BQL	5.00	1	10/10/2005
1,1,2,2-Tetrachloroethane	BQL	1.00	1	10/10/2005
Tetrachloroethene	BQL	1.00	1	10/10/2005
1,1,1-Trichloroethane	BQL	1.00	1	10/10/2005
1,1,2-Trichloroethane	BQL	1.00	1	10/10/2005
Trichloroethene	BQL	1.00	1	10/10/2005
Trichlorofluoromethane	BQL	1.00	1	10/10/2005
Vinyl Chloride	BQL	1.00	1	10/10/2005

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
1,4-Dichlorobutane	40	42.3	106

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By:

Results for Volatiles
by GC 602

Client Sample ID: WWS-1
Client Project ID: Wolth Property
Lab Sample ID: G161-2180-5A
Lab Project ID: G161-2180

Analyzed By: MJC
Date Collected: 10/5/2005 9:52
Date Received: 10/6/2005
Matrix: Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Benzene	BQL	1.00	1	10/10/2005
Diisopropyl ether (DIPE)	BQL	1.00	1	10/10/2005
Ethylbenzene	BQL	1.00	1	10/10/2005
Methyl-tert butyl ether (MTBE)	BQL	2.00	1	10/10/2005
Toluene	BQL	1.00	1	10/10/2005
m/p-Xylene	BQL	2.00	1	10/10/2005
o-Xylene	BQL	2.00	1	10/10/2005

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.0	100

Comments:
All values corrected for dilution.
BQL = Below quantitation limit.

Reviewed By:

Control Limits for MS-MSD

Method : 601 **Spike[ppb] :** 10
Instrument : gc3
Sample : 101005\022f0101.txt
MS : 101005\023f0101.txt
MSD : 101005\024f0101.txt

5

	µg/L			P(%)		P Limits	
Compound	Sam.	MS	MSD	MS	MSD	Lower	Upper
Bromodichloromethane	ND	10.9	11.5	109	115	42	172
Bromoform	ND	9.2	10.5	92	105	13	159
Bromomethane	ND	10.2	12.7	102	127	D	144
Carbon tetrachloride	ND	11.4	11.8	114	118	43	143
Chlorobenzene	ND	10.1	10.7	101	107	38	150
Chloroethane	ND	10.3	10.1	103	101	46	137
Chloroform	ND	10.7	10.9	107	109	49	133
Chloromethane	ND	9.9	9.8	99	98	D	193
Dibromochloromethane	ND	10.4	10.9	104	109	24	191
• 1,2-Dibromoethane	ND	10.4	10.4	104	104	D	206
1,2-Dichlorobenzene	ND	10.0	10.4	100	104	D	208
1,3-Dichlorobenzene	ND	10.2	10.3	102	103	7	187
1,4-Dichlorobenzene	ND	10.4	10.7	104	107	42	143
1,1-Dichloroethane	ND	10.9	11.1	109	111	47	132
1,2-Dichloroethane	ND	10.8	10.9	108	109	51	147
1,1-Dichloroethene	ND	10.7	10.9	107	109	28	167
• cis-1,2-Dichloroethene	ND	10.8	11.1	108	111	19	181
trans-1,2-Dichloroethene	ND	10.5	10.8	105	108	38	155
1,2-Dichloropropane	ND	10.9	11.3	109	113	44	156
cis-1,3-Dichloropropene	ND	10.8	11.0	108	110	22	178
trans-1,3-Dichloropropene	ND	10.0	10.5	100	105	22	178
Methylene Chloride	ND	10.2	10.9	102	109	25	162
1,1,2,2-Tertrachloroethane	ND	10.7	10.3	107	103	8	184
Tetrachloroethane	ND	10.6	10.9	106	109	26	162
1,1,1-Trichloroethane	ND	10.9	11.2	109	112	41	138
1,1,2-Trichloroethane	ND	10.6	11.0	106	110	39	136
Trichloroethene	ND	10.7	11.0	107	110	35	146
Trichlorofluromethane	ND	10.5	10.3	105	103	21	156
Vinyl Chloride	ND	10.2	10.1	102	101	28	163

Method: 602 **Spike[ppb] :** 10
Instrument : gc3
Sample : 101005\022r0101.txt
MS : 101005\023r0101.txt
MSD : 101005\024r0101.txt

	µg/L			P(%)		P Limits	
Compound	Sam.	MS	MSD	MS	MSD	Lower	Upper
Benzene	2.9	14.5	14.6	116	117	39	150
Chlorobenzene	ND	10.0	10.4	100	104	55	135
1,2-Dichlorobenzene	ND	9.2	9.7	92	97	37	154
1,3-Dichlorobenzene	ND	9.6	10.0	96	100	50	141
1,4-Dichlorobenzene	ND	9.7	10.2	97	102	42	143
• Diisopropyl ether	ND	8.2	8.4	82	84	30	170
Ethylbenzene	ND	10.6	11.0	106	110	32	160
• MTBE	ND	11.4	11.8	107	111	35	165
Toluene	1.8	12.9	13.1	111	113	46	148
• m,p-Xylene	ND	21.5	22.3	108	111	D	239
• o-Xylene	ND	10.4	10.8	104	108	36	164

Flags :

+ = out of QC limits.
• = lab generated limits.
D = Detected
ND = None Detected

Reviewed by: _____

Control Limits for QC Check / Laboratory Control Spike

Method : 601 **Spike[ppb] :** 10
Instrument : gc3
Filename : 101005\004f0101.txt

				QC Limits			LCS Limits	
	Compound	ppb	Q(%)	Lower	Upper	P_s(%)	Lower	Upper
	Bromodichloromethane	10.7	106.9	76.0	124.0	107	42	172
	Bromoform	9.8	97.5	73.5	126.5	98	13	159
	Bromomethane	12.8	127.9	58.5	141.5	128	D	144
	Carbon tetrachloride	11.3	112.6	68.5	131.5	113	43	143
	Chlorobenzene	10.4	104.1	72.0	128.0	104	38	150
	Chloroethane	10.5	105.4	77.0	123.0	105	46	137
	Chloroform	10.5	104.5	75.0	125.0	105	49	133
	Chloromethane	10.2	101.9	59.5	140.5	102	D	193
	Dibromochloromethane	10.5	104.8	65.5	134.5	105	24	191
•	1,2-Dibromoethane	10.1	101.1	13.6	186.4	101	D	206
	1,2-Dichlorobenzene	10.2	101.7	70.0	130.0	102	D	208
	1,3-Dichlorobenzene	10.0	100.3	49.5	150.5	100	7	187
	1,4-Dichlorobenzene	10.4	103.6	69.5	130.5	104	42	143
	1,1-Dichloroethane	10.7	106.8	84.0	116.0	107	47	132
	1,2-Dichloroethane	10.3	103.4	71.5	128.5	103	51	147
	1,1-Dichloroethene	10.5	105.3	63.0	137.0	105	28	167
•	cis-1,2-Dichloroethene	11.1	111.1	34.4	180.6	111	19	181
	trans-1,2-Dichloroethene	10.7	106.8	64.0	136.0	107	38	155
	1,2-Dichloropropane	10.7	106.8	74.0	126.0	107	44	156
	cis-1,3-Dichloropropene	10.6	106.1	64.0	136.0	106	22	178
	trans-1,3-Dichloropropene	10.0	100.5	64.0	136.0	100	22	178
	Methylene Chloride	10.4	104.0	77.5	122.5	104	25	162
	1,1,2,2-Tertrachloroethane	10.2	101.9	49.0	151.0	102	8	184
	Tetrachloroethane	10.4	103.7	70.0	130.0	104	26	162
	1,1,1-Trichloroethane	10.7	106.9	71.0	129.0	107	41	138
	1,1,2-Trichloroethane	10.4	104.0	78.5	121.5	104	39	136
	Trichloroethene	10.6	106.0	77.0	123.0	106	35	146
	Trichloroflurometh ane	10.3	103.0	66.5	133.5	103	21	156
	Vinyl Chloride	10.4	104.1	68.5	131.5	104	28	163

Method: 602 **Spike[ppb] :** 10
Instrument : gc3
Filename : 101005\004r0101.txt

				QC Limits			LCS Limits	
	Compound	ppb	Q(%)	Lower	Upper	P_s(%)	Lower	Upper
	Benzene	10.1	101.3	77.0	123.0	101	39	150
	Chlorobenzene	9.9	98.6	80.5	119.5	99	55	135
	1,2-Dichlorobenzene	9.5	94.8	68.0	132.0	95	37	154
	1,3-Dichlorobenzene	9.6	96.0	72.5	127.5	96	50	141
	1,4-Dichlorobenzene	9.7	97.1	69.5	130.5	97	42	143
•	Diisopropyl ether	7.8	78.3	43.1	156.9	78	30	170
	Ethylbenzene	10.1	101.3	63.0	137.0	101	32	160
•	MTBE	10.0	100.2	46.8	153.2	100	35	165
	Toluene	10.0	100.3	77.5	127.0	100	46	148
•	m,p-Xylene	20.3	101.3	11.2	188.8	101	D	239
•	o-Xylene	10.0	100.1	47.6	152.4	100	36	164

Flags :

+ = out of QC limits.
• = lab generated limits.
D = Detected

Reviewed by: _____

Control Limits for QC Check / Laboratory Control Spike

Method : 601 **Spike[ppb] :** 10
Instrument : gc3
Filename : 101005\005f0101.txt

			QC Limits			LCS Limits	
Compound	ppb	Q(%)	Lower	Upper	P_s(%)	Lower	Upper
Bromodichloromethane	10.8	108.0	76.0	124.0	108	42	172
Bromoform	8.9	89.1	73.5	126.5	89	13	159
Bromomethane	12.5	124.5	58.5	141.5	125	D	144
Carbon tetrachloride	11.3	113.1	68.5	131.5	113	43	143
Chlorobenzene	10.3	102.9	72.0	128.0	103	38	150
Chloroethane	10.6	106.0	77.0	123.0	106	46	137
Chloroform	10.5	105.5	75.0	125.0	105	49	133
Chloromethane	10.2	102.4	59.5	140.5	102	D	193
Dibromochloromethane	10.1	100.8	65.5	134.5	101	24	191
• 1,2-Dibromoethane	9.9	99.4	13.6	186.4	99	D	206
1,2-Dichlorobenzene	9.6	96.2	70.0	130.0	96	D	208
1,3-Dichlorobenzene	9.9	99.4	49.5	150.5	99	7	187
1,4-Dichlorobenzene	10.1	101.0	69.5	130.5	101	42	143
1,1-Dichloroethane	10.8	107.7	84.0	116.0	108	47	132
1,2-Dichloroethane	10.2	101.8	71.5	128.5	102	51	147
1,1-Dichloroethene	10.6	106.5	63.0	137.0	106	28	167
• cis-1,2-Dichloroethene	11.0	109.9	34.4	180.6	110	19	181
trans-1,2-Dichloroethene	10.7	107.1	64.0	136.0	107	38	155
1,2-Dichloropropane	10.7	106.8	74.0	126.0	107	44	156
cis-1,3-Dichloropropene	10.6	105.6	64.0	136.0	106	22	178
trans-1,3-Dichloropropene	9.9	99.1	64.0	136.0	99	22	178
Methylene Chloride	10.4	104.2	77.5	122.5	104	25	162
1,1,2,2-Tertrachloroethane	9.7	96.9	49.0	151.0	97	8	184
Tetrachloroethane	10.5	105.2	70.0	130.0	105	26	162
1,1,1-Trichloroethane	10.8	107.7	71.0	129.0	108	41	138
1,1,2-Trichloroethane	9.9	99.2	78.5	121.5	99	39	136
Trichloroethene	10.7	107.0	77.0	123.0	107	35	146
Trichlorofluromethane	10.5	104.6	66.5	133.5	105	21	156
Vinyl Chloride	10.5	105.3	68.5	131.5	105	28	163

Method: 602 **Spike[ppb] :** 10
Instrument : gc3
Filename : 101005\005r0101.txt

			QC Limits			LCS Limits	
Compound	ppb	Q(%)	Lower	Upper	P_s(%)	Lower	Upper
Benzene	10.2	101.5	77.0	123.0	102	39	150
Chlorobenzene	9.9	98.6	80.5	119.5	99	55	135
1,2-Dichlorobenzene	9.2	92.1	68.0	132.0	92	37	154
1,3-Dichlorobenzene	9.4	94.4	72.5	127.5	94	50	141
1,4-Dichlorobenzene	9.6	95.5	69.5	130.5	96	42	143
• Diisopropyl ether	7.7	76.9	43.1	156.9	77	30	170
Ethylbenzene	10.1	101.3	63.0	137.0	101	32	160
• MTBE	9.9	99.5	46.8	153.2	99	35	165
Toluene	10.0	100.4	77.5	127.0	100	46	148
• m,p-Xylene	20.3	101.6	11.2	188.8	102	D	239
• o-Xylene	10.0	99.8	47.6	152.4	100	36	164

Flags :

+ = out of QC limits.
• = lab generated limits.
D = Detected

Reviewed by: _____

Paradigm Analytical Laboratories, INC.

II

602 SURROGATE RECOVERY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

	EPA SAMPLE NO.	LAB SAMPLE ID	FILENAME	S1 (TFT) #	QC LIMITS	TOT OUT
01	WWS-1	G161-2180-5A	014R0101.D	100	70 - 130	0
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						

S1 (TFT) = trifluorotoluene

Paradigm Analytical Laboratories, INC.

II

601 SURROGATE RECOVERY

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

	EPA SAMPLE NO.	LAB SAMPLE ID	FILENAME	S1 (DCB) #	QC LIMITS	TOT OUT
01	WWS-1	G161-2180-5A	014F0101.D	106	70 - 130	0
02						
03						
04						
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S1 (DCB) = 1,4-dichlorobutane

Paradigm Analytical Laboratories, INC.

IV

601 METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK3101005A

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab Sample ID: VBLK3101005A Lab File ID: 007F0101.D

Date Analyzed: 2005-10-10 Instrument ID: GC3

Time Analyzed: 12:09 GC Column:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	FILENAME	DATE ANALYZED
01	WWS-1	G161-2180-5A	014F0101.D	2005-10-10 15:45
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
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27				
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31				
32				
33				
34				
35				

COMMENTS:

Paradigm Analytical Laboratories, INC.

IV

602 METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK3101005A

Lab Name: Paradigm Analytical Laboratories, INC. Contract:

Lab Code: NC00919 Case No.: SAS No.: SDG No.:

Lab Sample ID: VBLK3101005A Lab File ID: 007R0101.D

Date Analyzed: 2005-10-10 Instrument ID: GC3

Time Analyzed: 12:09 GC Column:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	FILENAME	DATE ANALYZED
01	WWS-1	G161-2180-5A	014R0101.D	2005-10-10 15:45
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
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35				

COMMENTS:

8260 Sample Raw Data

PARADIGM ANALYTICAL LABORATORIES, INC.
Quantification Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\1101205\1012142.D
Acq On : 13 Oct 2005 5:47 am
Sample : g161-~~21801a~~
Misc : 2180-1a
MS Integration Params: rteint.p
Quant Time: Oct 13 6:12 2005

Vial: 42
Operator: JTF
Inst : MSD1
Multiplr: 1.00

Quant Results File: 8260SSC.RES

Quant Method : D:\HPCHEM\1\DATA\1101205\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	8.78	96	7542589	50.00 ppb	0.00
39) bromochloropropane	11.99	79	846662	50.00 ppb	0.00
53) chlorobenzene-d5	13.81	117	3827016	50.00 ppb	0.00
System Monitoring Compounds					
23) 1,2-dichloroethane-d4	8.21	65	785869	54.35 ppb	0.00
Spiked Amount 50.000			Recovery	= 108.70%	
33) toluene-d8	11.37	98	5008423	54.92 ppb	0.00
Spiked Amount 50.000			Recovery	= 109.84%	
49) 4-bromofluorobenzene	15.89	95	2773299	54.95 ppb	0.00
Spiked Amount 50.000			Recovery	= 109.90%	

Target Compounds					Qvalue
3) chloromethane	2.33	50	2561	~~0.04~~ ppb	# 42
5) bromomethane	2.72	94	616	Below Cal	# 1
7) trichlorofluoromethane	3.30	101	82211	1.39 ppb	93
8) acrolein	3.90	56	1671	~~0.29~~ ppb	# 1
10) acetone	4.15	43	374713	~~12.16~~ ppb	93
11) methylene chloride	4.85	84	20649	~~0.44~~ ppb	# 83
13) acrylonitrile	5.34	53	3628	0.34 ppb	# 10
17) 2-butanone	6.97	43	76053	1.74 ppb	92
19) chloroform	7.50	83	5788	0.08 ppb	91
24) benzene	8.32	78	162252	0.73 ppb	# 81
26) trichloroethene	9.40	95	918	~~0.02~~ ppb	# 6
27) 1,2-dichloropropane	9.69	63	16431	~~0.29~~ ppb	# 47
32) 4-methyl-2-pentanone	11.32	43	592278	~~7.66~~ ppb	# 41
34) toluene	11.49	92	592532	~~3.28~~ ppb	# 37
36) trans-1,3-dichloropropene	11.99	75	26355	~~0.56~~ ppb	# 49
38) Carbon disulfide	4.41	76	211447	~~1.18~~ ppb	# 97
40) 1,1,2-trichloroethane	12.12	83	159742	~~5.63~~ ppb	# 1
42) 1,3-dichloropropane	12.44	76	3192	~~0.05~~ ppb	# 27
43) 2-hexanone	12.54	43	3320728	~~45.05~~ ppb	# 32
44) dibromochloromethane	12.75	129	8492	~~0.26~~ ppb	# 64
45) 1,2-dibromoethane	13.26	107	758	~~0.03~~ ppb	# 1
46) chlorobenzene	13.87	112	7989	~~0.06~~ ppb	# 38
50) bromobenzene	16.27	156	10195	Below Cal	# 41
51) 1,1,2,2-tetrachloroethane	16.20	83	2245957	~~72.71~~ ppb	# 35
52) 1,2,3-trichloropropane	16.19	110	320059	~~37.04~~ ppb	# 1
54) ethylbenzene	14.07	91	438300	~~0.21~~ ppb	# 81
55) m/p-xylene	14.29	106	429388	Below Cal	# 100
56) styrene	14.97	104	11480	~~0.10~~ ppb	100
57) o-xylene	14.98	106	148495	~~1.56~~ ppb	# 61
58) isopropylbenzene	15.63	105	1216174	~~4.66~~ ppb	# 87
59) n-propyl benzene	16.37	91	1753209	~~3.71~~ ppb	# 79
60) 2-chlorotoluene	16.39	126	14266	Below Cal	# 1
61) 4-chlorotoluene	16.70	91	31688	Below Cal	# 14
62) 1,3,5-trimethylbenzene	16.71	105	136352	Below Cal	87
63) tert-butylbenzene	17.28	119	400981	Below Cal	86
64) 1,2,4-trimethylbenzene	17.37	105	585841	~~2.06~~ ppb	# 73
65) sec-butylbenzene	17.68	105	3096369	12.08 ppb	# 70
66) 1,3-dichlorobenzene	17.85	146	1248	Below Cal	# 26
67) 4-isopropyltoluene	17.96	119	489425	~~1.75~~ ppb	# 84
68) 1,4-dichlorobenzene	18.03	146	3197	Below Cal	# 1
69) 1,2-dichlorobenzene	18.68	146	7762	Below Cal	# 1
70) n-butylbenzene	18.69	91	3267135	18.34 ppb	# 85
71) 1,2-dibromo-3-chloropropan	20.08	75	29199	~~12.71 ppb~~	# 16

(#) = qualifier out of range (m) = manual integration
1012142.D 8260SSC.M Thu Oct 13 06:12:23 2005
N.C CERTIFICATION #481

Data File : D:\HPCHEM\1\DATA\1101205\1012142.D Vial: 42
Acq On : 13 Oct 2005 5:47 am Operator: JTF
Sample : g161-21801a Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 13 6:12 2005 Quant Results File: 8260SSC.RES

Quant Method : D:\HPCHEM\1\DATA\1101205\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
72)	1,2,4-trichlorobenzene	21.59	180	22623	Below Cal	#	3
74)	naphthalene	22.07	128	1127360	129.63 ppb		99
75)	trans-1,4-Dichloro-2-buten	16.22	89	4141	~~0.74 ppb~~	#	24
76)	1,2,3-trichlorobenzene	22.54	180	1202	Below Cal	#	66
77)	MTBE	5.32	73	2666	~~0.03 ppb~~	#	1
78)	DIPE	6.15	45	6335	~~<0.03 ppb~~	#	47

(#) = qualifier out of range (m) = manual integration
1012142.D 8260SSC.M Thu Oct 13 06:12:23 2005

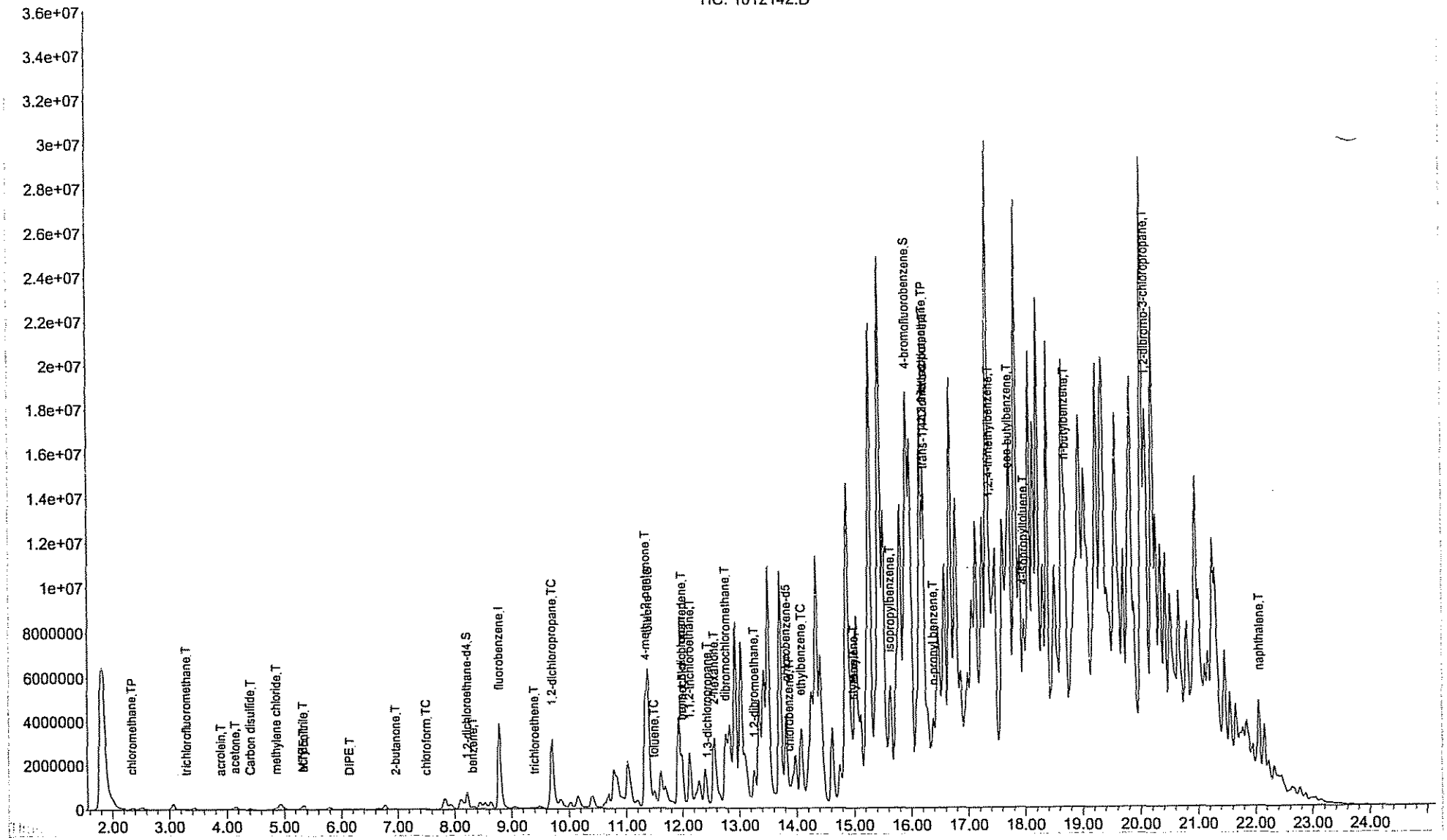
Quantitation Report

Data File : D:\HPCHEM\1\DATA\1101205\1012142.D
Acq On : 13 Oct 2005 5:47 am
Sample : g161-21801a
Misc :
MS Integration Params: rteint.p
Quant Time: Oct 13 6:12 2005

Vial: 42
Operator: JTF
Inst : MSD1
Multiplr: 1.00
Quant Results File: 8260SSC.RES

Method : D:\HPCHEM\1\DATA\1101205\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration

TIC: 1012142.D



PARADIGM ANALYTICAL LABORATORIES, INC.
N.C. CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC.
Quantification Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\1101205\1012134.D Vial: 34
Acq On : 13 Oct 2005 1:34 am Operator: JTF
Sample : g161-2180-2a Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 13 1:59 2005 Quant Results File: 8260SSC.RES

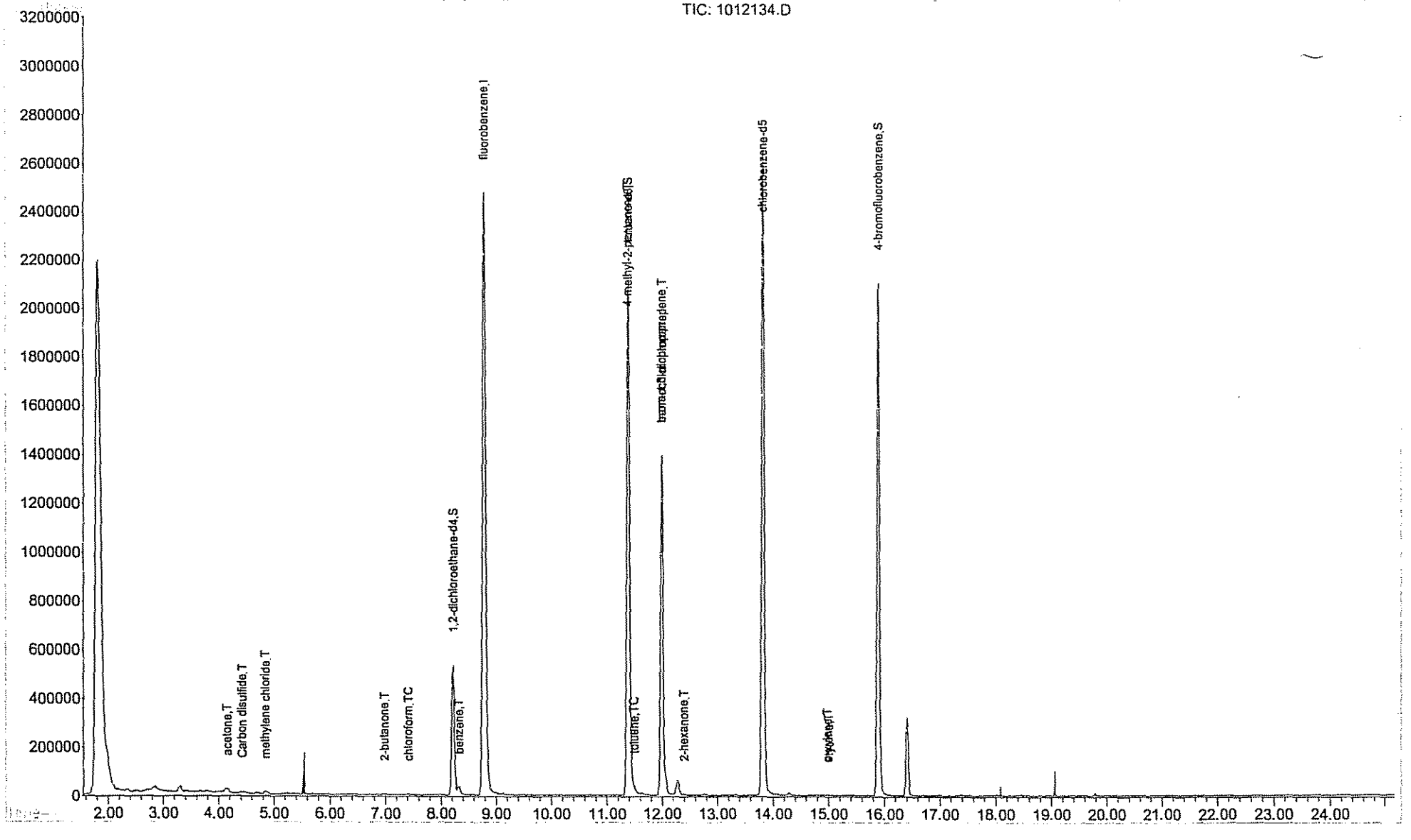
Quant Method : D:\HPCHEM\1\DATA\1101205\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) fluorobenzene	8.78	96	4880750	50.00	ppb	0.00
39) bromochloropropane	11.98	79	502378	50.00	ppb	-0.02
53) chlorobenzene-d5	13.81	117	2768805	50.00	ppb	0.00
System Monitoring Compounds						
23) 1,2-dichloroethane-d4	8.21	65	670396	71.65	ppb	0.00
Spiked Amount 50.000			Recovery	=	143.30%	
33) toluene-d8	11.37	98	2995476	50.76	ppb	0.00
Spiked Amount 50.000			Recovery	=	101.52%	
49) 4-bromofluorobenzene	15.89	95	1538684	51.38	ppb	0.00
Spiked Amount 50.000			Recovery	=	102.76%	
Target Compounds						Qvalue
5) bromomethane	2.78	94	8913	Below Cal	#	66
10) acetone	4.15	43	41789	1.80	ppb #	86
11) methylene chloride	4.85	84	12601	0.42	ppb #	80
17) 2-butanone	6.98	43	5860	0.21	ppb #	53
19) chloroform	7.42	83	667	0.01	ppb #	18
24) benzene	8.31	78	56347	0.39	ppb #	71
32) 4-methyl-2-pentanone	11.35	43	11974	0.24	ppb #	1
34) toluene	11.49	92	17604	0.15	ppb #	10
36) trans-1,3-dichloropropene	11.98	75	22140	0.73	ppb #	49
38) Carbon disulfide	4.41	76	6720	0.06	ppb #	79
43) 2-hexanone	12.40	43	2298	0.05	ppb #	28
54) ethylbenzene	14.07	91	9054	Below Cal	#	34
55) m/p-xylene	14.30	106	7617	Below Cal	#	100
56) styrene	14.99	104	838	0.01	ppb	100
57) o-xylene	14.98	106	1720	0.02	ppb #	1
59) n-propyl benzene	16.37	91	4336	Below Cal	#	44
60) 2-chlorotoluene	16.39	126	715	Below Cal	#	1
61) 4-chlorotoluene	16.71	91	2684	Below Cal	#	49
62) 1,3,5-trimethylbenzene	16.53	105	3527	Below Cal	#	25
64) 1,2,4-trimethylbenzene	17.38	105	7956	Below Cal	#	78
65) sec-butylbenzene	17.38	105	7956	Below Cal	#	39
66) 1,3-dichlorobenzene	17.83	146	1412	Below Cal	#	26
68) 1,4-dichlorobenzene	18.02	146	2613	Below Cal	#	26
70) n-butylbenzene	18.69	91	724	Below Cal	#	43

(#) = qualifier out of range (m) = manual integration
1012134.D 8260SSC.M Thu Oct 13 01:59:35 2005

Data File : D:\HPCHEM\1\DATA\1101205\1012134.D Vial: 34
Acq On : 13 Oct 2005 1:34 am Operator: JTF
Sample : g161-2180-2a Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 13 1:59 2005 Quant Results File: 8260SSC.RES

Method : D:\HPCHEM\1\DATA\1101205\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration



N.C. CERTIFICATION #481
PARADIGM ANALYTICAL LABORATORIES, INC.

PARADIGM ANALYTICAL LABORATORIES, INC.
Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\1101205\1012135.D Vial: 35
Acq On : 13 Oct 2005 2:05 am Operator: JTF
Sample : g161-2180-3a Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 13 2:31 2005 Quant Results File: 8260SSC.RES

Quant Method : D:\HPCHEM\1\DATA\1101205\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) fluorobenzene	8.78	96	5020275	50.00	ppb	0.00
39) bromochloropropane	11.98	79	525183	50.00	ppb	-0.02
53) chlorobenzene-d5	13.81	117	2797798	50.00	ppb	0.00
System Monitoring Compounds						
23) 1,2-dichloroethane-d4	8.22	65	673189	69.94	ppb	0.00
Spiked Amount 50.000			Recovery	=	139.88%	
33) toluene-d8	11.37	98	3046484	50.19	ppb	0.00
Spiked Amount 50.000			Recovery	=	100.38%	
49) 4-bromofluorobenzene	15.89	95	1585377	50.64	ppb	0.00
Spiked Amount 50.000			Recovery	=	101.28%	
Target Compounds						Qvalue
3) chloromethane	2.31	50	1405	0.03	ppb #	42
5) bromomethane	2.80	94	5361	Below Cal		86
7) trichlorofluoromethane	3.30	101	79570	2.02	ppb	100
10) acetone	4.15	43	64082	2.86	ppb	92
11) methylene chloride	4.86	84	19122	0.61	ppb #	68
17) 2-butanone	6.97	43	11175	0.38	ppb #	53
24) benzene	8.31	78	63269	0.43	ppb #	81
32) 4-methyl-2-pentanone	11.36	43	10905	0.21	ppb #	1
34) toluene	11.48	92	30876	0.26	ppb #	32
36) trans-1,3-dichloropropene	11.99	75	22397	0.72	ppb #	49
38) carbon disulfide	4.39	76	7140	0.06	ppb #	79
42) 1,3-dichloropropane	12.43	76	1275	0.03	ppb #	44
43) 2-hexanone	12.76	43	7587	0.17	ppb #	28
46) chlorobenzene	13.86	112	722	0.01	ppb #	41
54) ethylbenzene	14.07	91	6533	Below Cal	#	34
55) m/p-xylene	14.28	106	5214	Below Cal	#	100
59) n-propyl benzene	16.38	91	4394	Below Cal	#	44
60) 2-chlorotoluene	16.42	126	676	Below Cal	#	1
61) 4-chlorotoluene	16.70	91	3598	Below Cal	#	49
62) 1,3,5-trimethylbenzene	16.54	105	651	Below Cal	#	25
64) 1,2,4-trimethylbenzene	17.37	105	7744	Below Cal	#	17
65) sec-butylbenzene	17.37	105	7744	Below Cal	#	39
66) 1,3-dichlorobenzene	17.85	146	2132	Below Cal	#	26
68) 1,4-dichlorobenzene	18.02	146	1907	Below Cal	#	73
70) n-butylbenzene	18.69	91	793	Below Cal	#	43

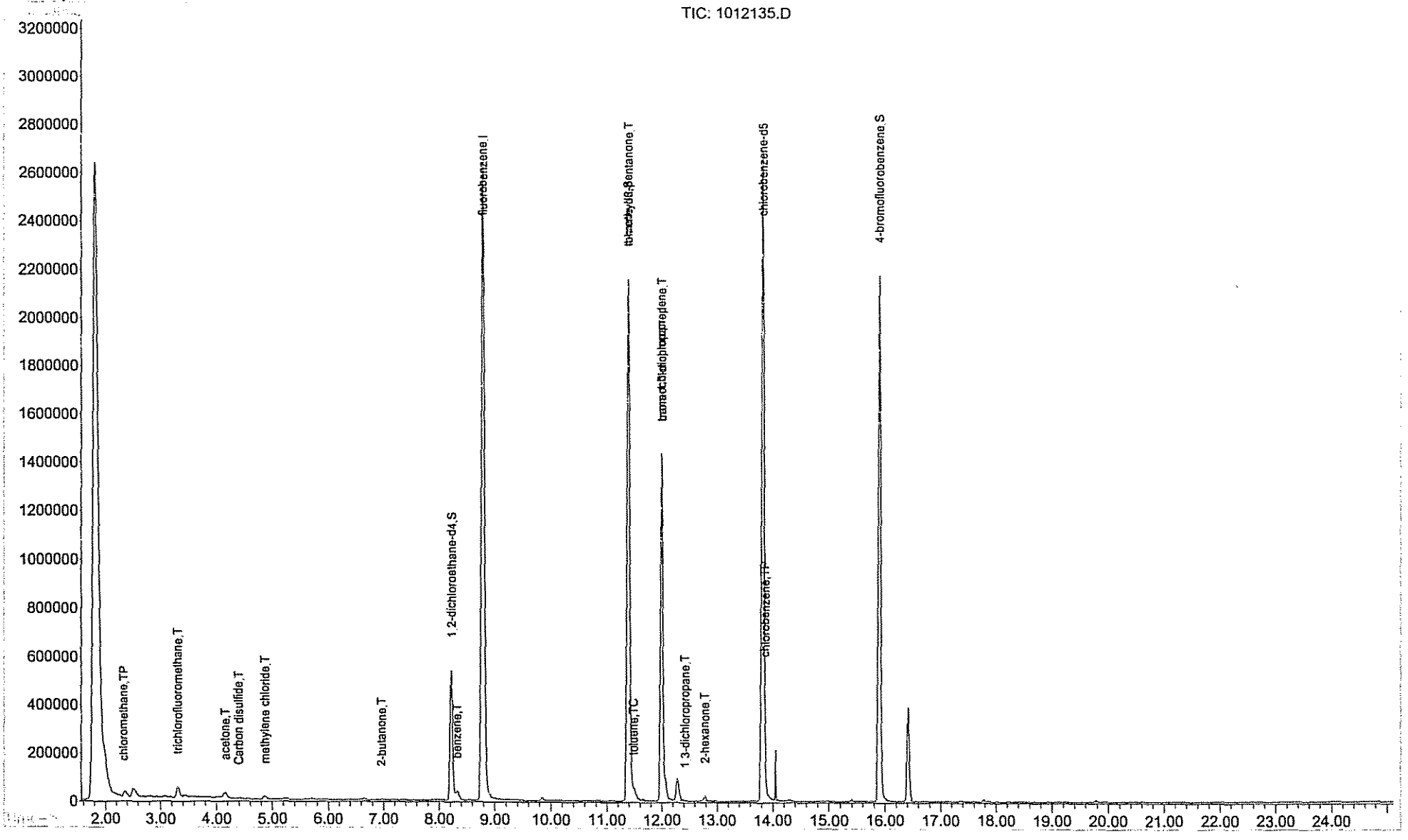
(#) = qualifier out of range (m) = manual integration
1012135.D 8260SSC.M Thu Oct 13 02:31:03 2005

Data File : D:\HPCHEM\1\DATA\1101205\1012135.D
Acq On : 13 Oct 2005 2:05 am
Sample : g161-2180-3a
Misc :
MS Integration Params: rteint.p
Quant Time: Oct 13 2:31 2005

Vial: 35
Operator: JTF
Inst : MSD1
Multiplr: 1.00

Quant Results File: 8260SSC.RES

Method : D:\HPCHEM\1\DATA\1101205\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration



N.C. CERTIFICATION #481
PARADIGM ANALYTICAL LABORATORIES, INC.

PARADIGM ANALYTICAL LABORATORIES, INC.
Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\1101205\1012136.D Vial: 36
Acq On : 13 Oct 2005 2:37 am Operator: JTF
Sample : g161-2180-4a Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 13 3:02 2005 Quant Results File: 8260SSC.RES

Quant Method : D:\HPCHEM\1\DATA\1101205\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

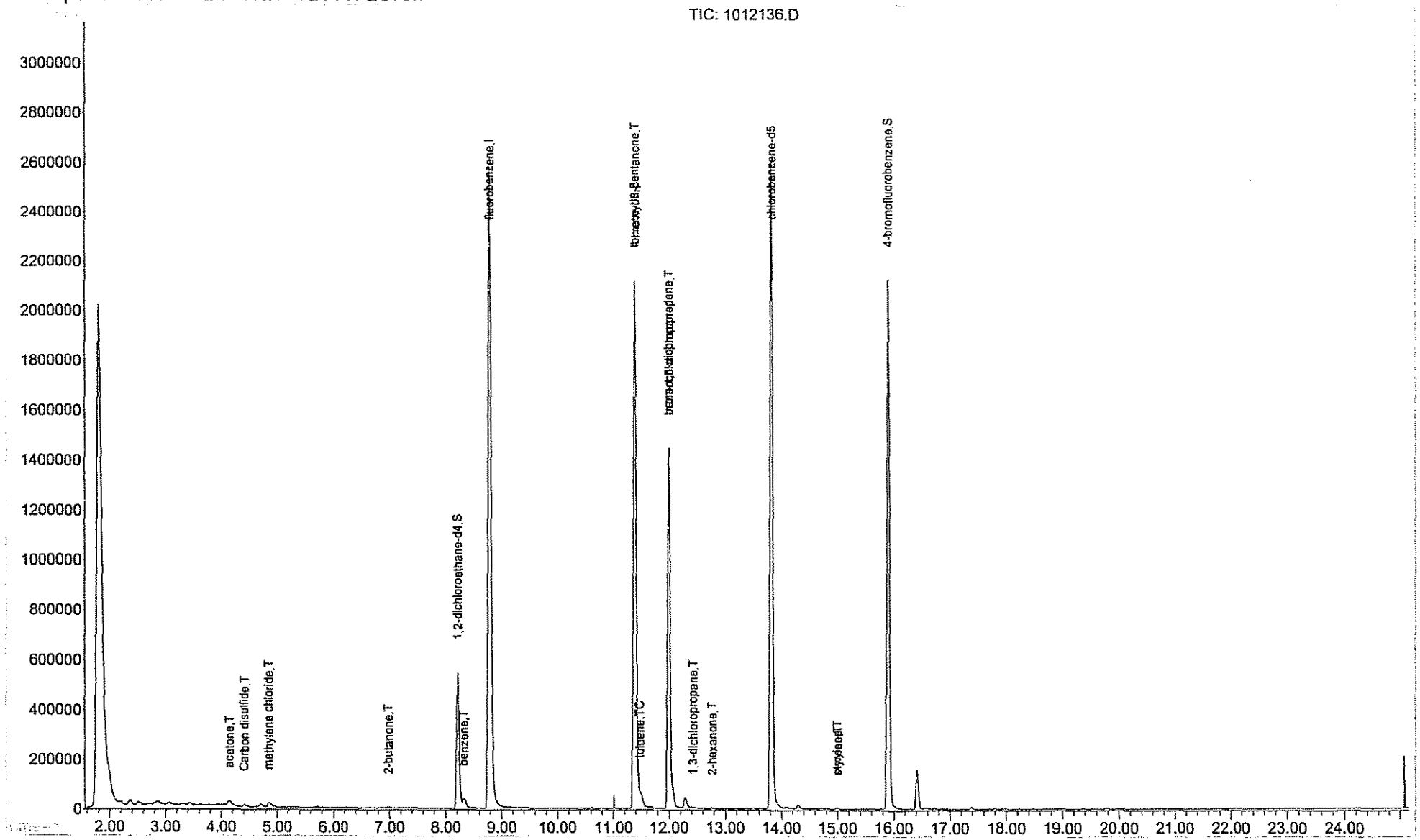
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	8.78	96	5017654	50.00 ppb	0.00
39) bromochloropropane	11.99	79	518486	50.00 ppb	-0.02
53) chlorobenzene-d5	13.82	117	2780229	50.00 ppb	0.00
System Monitoring Compounds					
23) 1,2-dichloroethane-d4	8.21	65	693469	72.09 ppb	0.00
Spiked Amount 50.000			Recovery	= 144.18%	
33) toluene-d8	11.38	98	3035086	50.03 ppb	0.00
Spiked Amount 50.000			Recovery	= 100.06%	
49) 4-bromofluorobenzene	15.88	95	1567136	50.70 ppb	-0.02
Spiked Amount 50.000			Recovery	= 101.40%	
Target Compounds					Qvalue
5) bromomethane	2.77	94	2632	Below Cal	# 1
10) acetone	4.15	43	60327	2.67 ppb	# 65
11) methylene chloride	4.85	84	25179	0.81 ppb	# 80
17) 2-butanone	6.98	43	12596	0.43 ppb	# 53
24) benzene	8.33	78	64042	0.43 ppb	95
32) 4-methyl-2-pentanone	11.38	43	11424	0.22 ppb	# 1
34) toluene	11.47	92	45918	0.38 ppb	# 55
36) trans-1,3-dichloropropene	12.00	75	22606	0.72 ppb	# 49
38) Carbon disulfide	4.41	76	19443	0.16 ppb	# 79
42) 1,3-dichloropropane	12.43	76	614	0.02 ppb	# 44
43) 2-hexanone	12.77	43	1423	0.03 ppb	# 28
54) ethylbenzene	14.07	91	14697	Below Cal	# 52
55) m/p-xylene	14.29	106	14457	Below Cal	# 100
56) styrene	15.01	104	624	0.01 ppb	100
57) o-xylene	14.99	106	5028	0.07 ppb	# 44
59) n-propyl benzene	16.38	91	6096	Below Cal	# 44
61) 4-chlorotoluene	16.69	91	4396	Below Cal	# 49
62) 1,3,5-trimethylbenzene	16.70	105	5118	Below Cal	# 25
64) 1,2,4-trimethylbenzene	17.38	105	14450	Below Cal	# 49
65) sec-butylbenzene	17.38	105	14450	Below Cal	# 39
66) 1,3-dichlorobenzene	17.85	146	875	Below Cal	# 26
68) 1,4-dichlorobenzene	18.03	146	2131	Below Cal	# 26
70) n-butylbenzene	18.71	91	2227	Below Cal	# 43
74) naphthalene	22.07	128	687	Below Cal	# 73

(#) = qualifier out of range (m) = manual integration
1012136.D 8260SSC.M Thu Oct 13 03:02:50 2005

Quantitation Report

Data File : D:\HPCHEM\1\DATA\1101205\1012136.D Vial: 36
Acq On : 13 Oct 2005 2:37 am Operator: JTF
Sample : g161-2180-4a Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 13 3:02 2005 Quant Results File: 8260SSC.RES

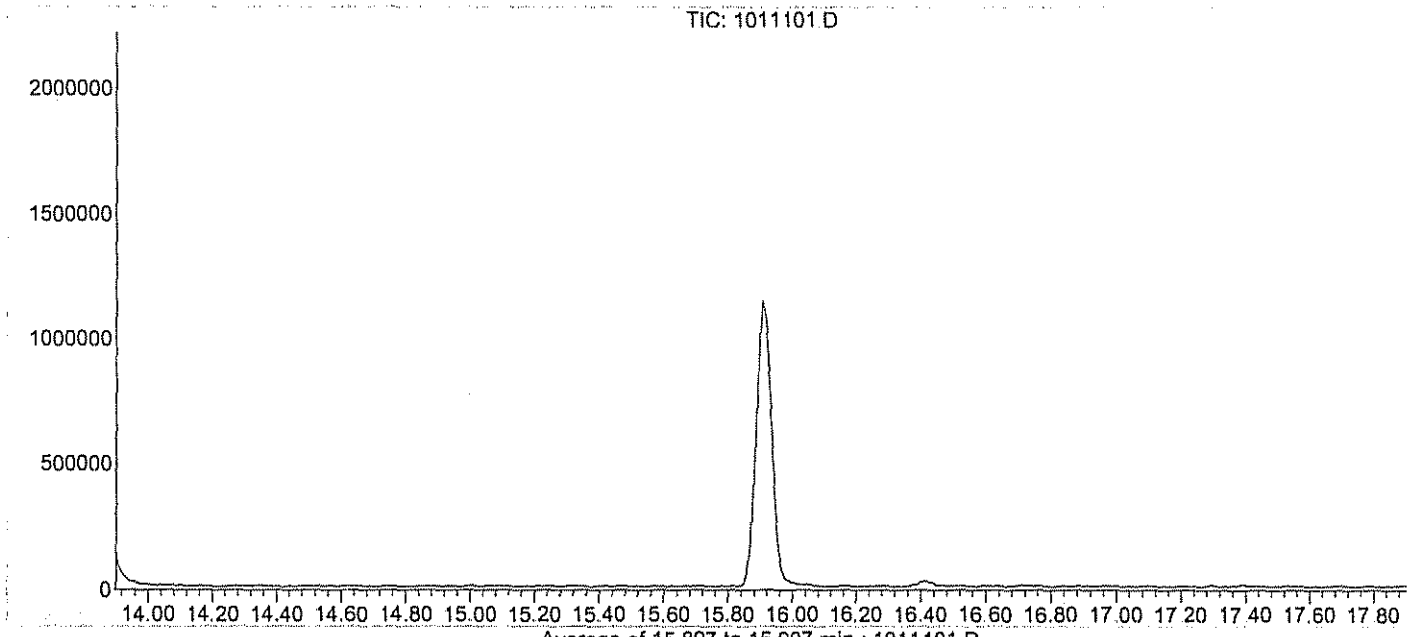
Method : D:\HPCHEM\1\DATA\1101205\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration

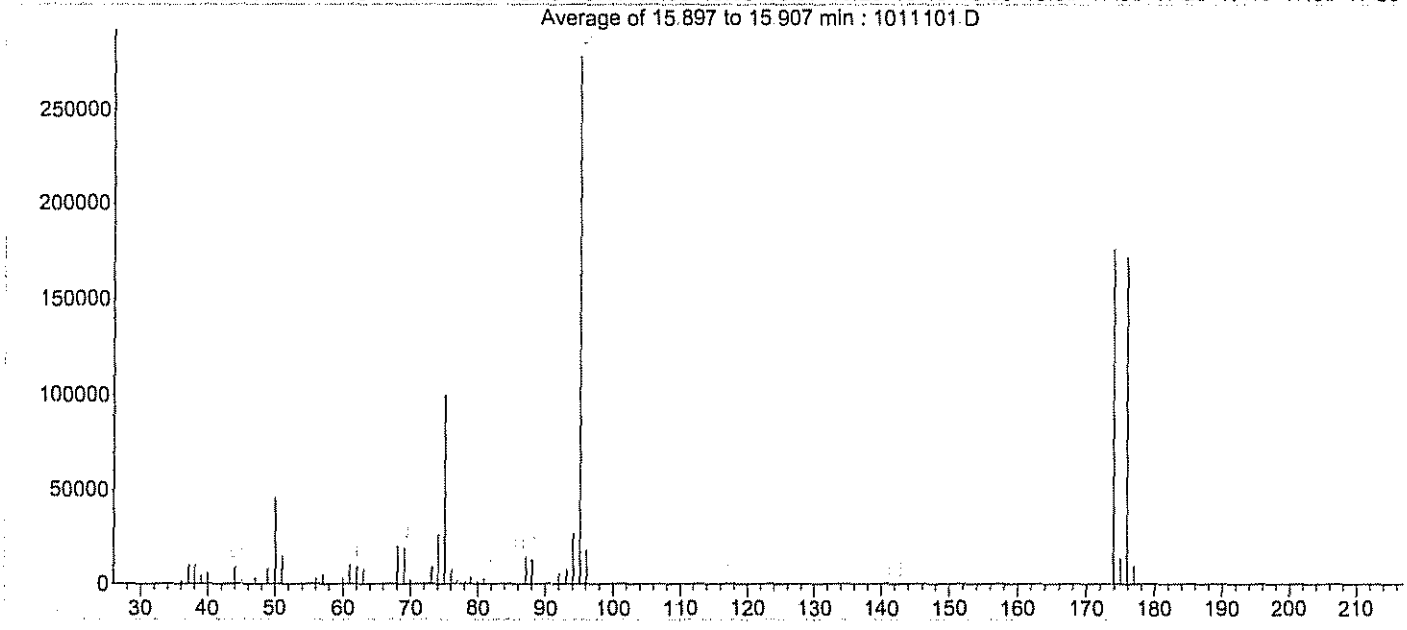


PARADIGM ANALYTICAL LABORATORIES, INC.
N.C. CERTIFICATION #481

8260 Tuning

```
Data File : D:\HPCHEM\1\JAN-OCT2005\1101105\1011101.D    Vial: 1
Acq On    : 11 Oct 2005   7:45 am                        Operator: JTF
Sample    : bfb 50ng                                     Inst    : MSD1
Misc      :                                              Multiplr: 1.00
MS Integration Params: rteint.p
Method    : D:\HPCHEM\1\JAN-OCT2005\1101105\8260SSC.M (RTE Integrator)
Title     : Soil for 8260/8240/624/App.II/App.IX
```





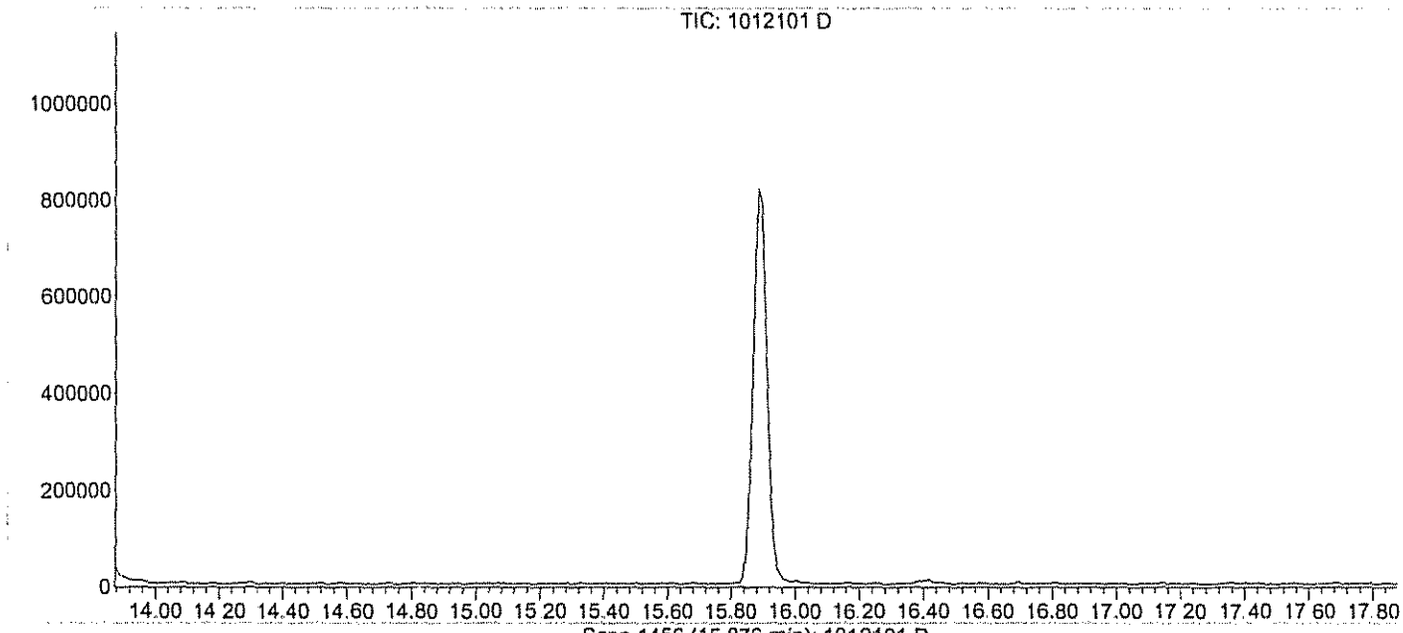
Spectrum Information: Average of 15.897 to 15.907 min.

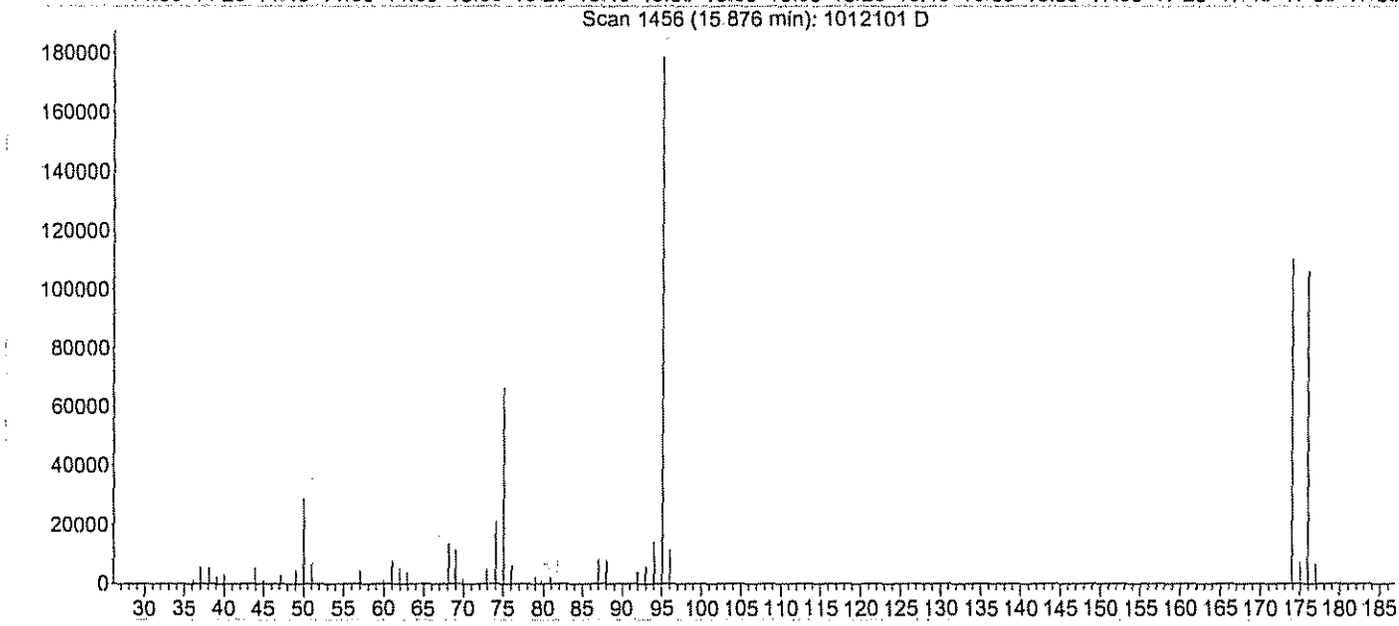
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.4	45552	PASS
75	95	30	60	36.0	100192	PASS
95	95	100	100	100.0	277984	PASS
96	95	5	9	6.3	17464	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	63.1	175488	PASS
175	174	5	9	7.8	13712	PASS
176	174	95	101	97.8	171584	PASS
177	176	5	9	5.5	9434	PASS

1011101.D 8260SSC.M Tue Nov 08 15:03:54 2005

BFB

```
Data File : D:\HPCHEM\1\JAN-OCT2005\1101205\1012101.D    Vial: 1
Acq On    : 12 Oct 2005   8:23 am                        Operator: JTF
Sample    : bfb 50ng                                     Inst    : MSD1
Misc      :                                              Multiplr: 1.00
MS Integration Params: rteint.p
Method    : D:\HPCHEM\1\JAN-OCT2005\1101205\8260SSC.M (RTE Integrator)
Title     : Soil for 8260/8240/624/App.II/App.IX
```



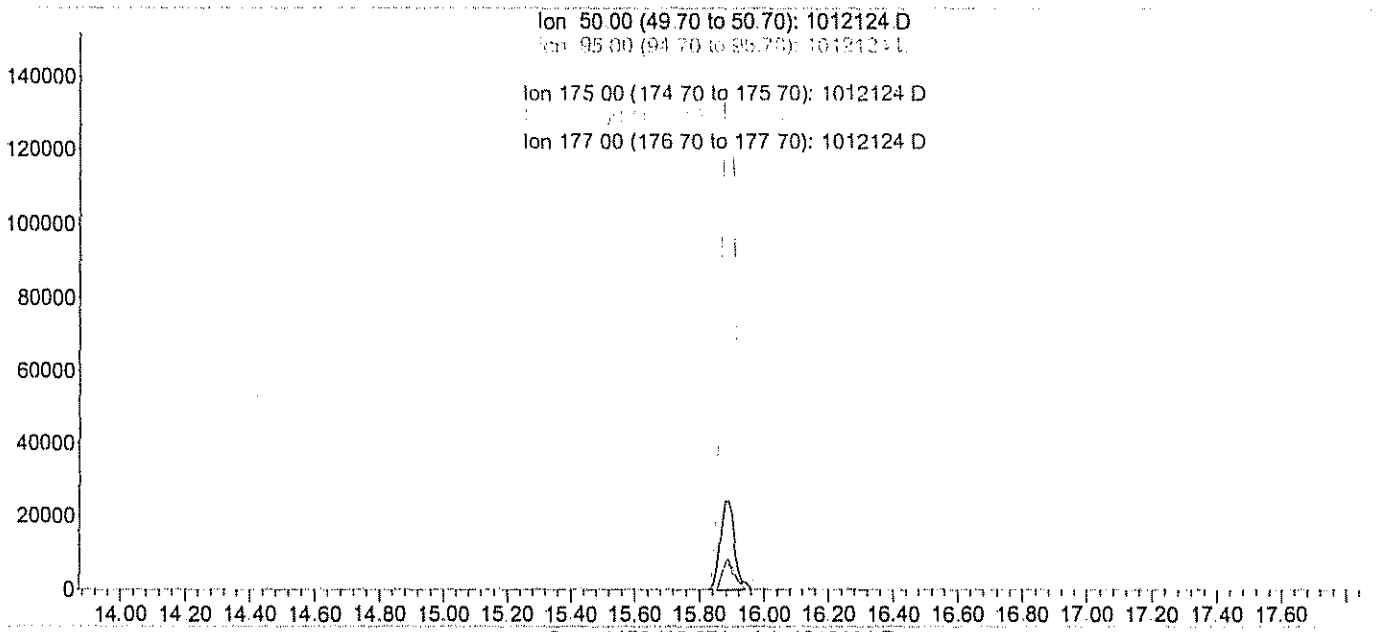


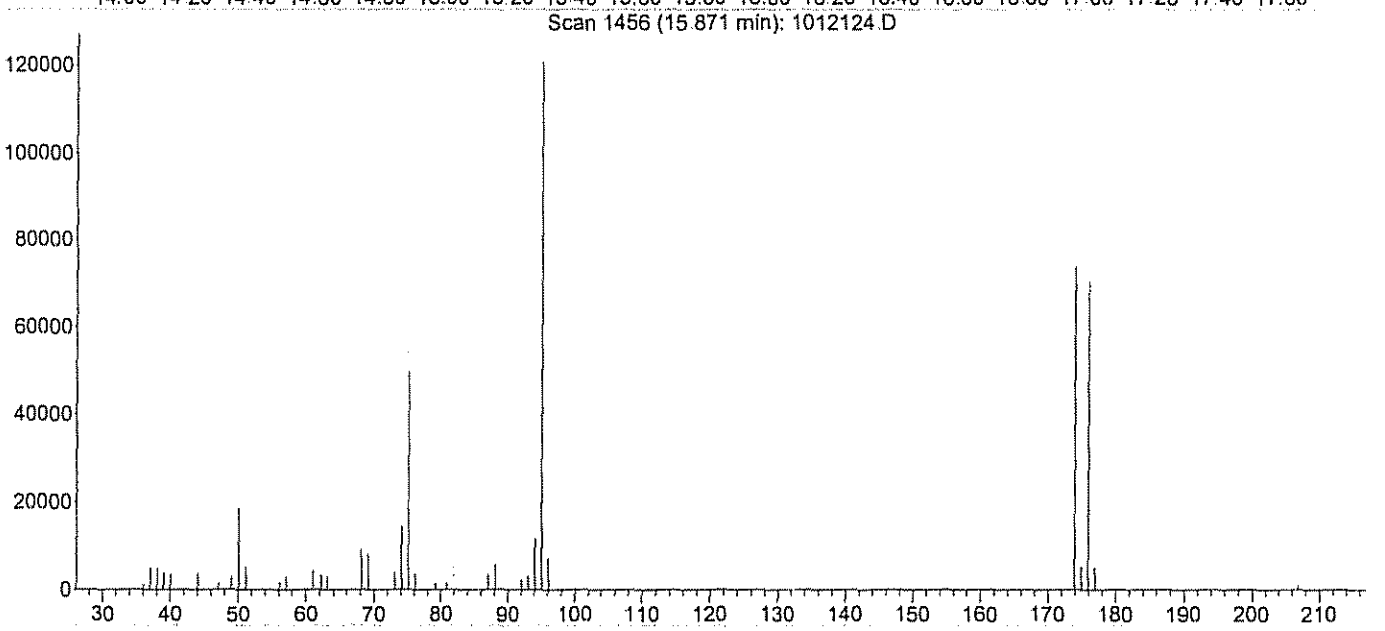
Spectrum Information: Scan 1456

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.2	28984	PASS
75	95	30	60	37.3	66544	PASS
95	95	100	100	100.0	178560	PASS
96	95	5	9	6.5	11627	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	61.9	110512	PASS
175	174	5	9	6.8	7497	PASS
176	174	95	101	96.1	106216	PASS
177	176	5	9	6.3	6726	PASS

1012101.D 8260SSC.M Tue Nov 08 15:14:16 2005

Data File : D:\HPCHEM\1\JAN-OCT2005\1101205\1012124.D Vial: 24
Acq On : 12 Oct 2005 8:21 pm Operator: JTF
Sample : bfb 50ng Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : D:\HPCHEM\1\JAN-OCT2005\1101205\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX





Spectrum Information: Scan 1456

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.3	18528	PASS
75	95	30	60	41.0	49496	PASS
95	95	100	100	100.0	120832	PASS
96	95	5	9	6.0	7276	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	61.0	73664	PASS
175	174	5	9	7.1	5208	PASS
176	174	95	101	95.7	70504	PASS
177	176	5	9	7.3	5158	PASS

1012124.D 8260SSC.M Tue Nov 08 15:13:17 2005

8260 CVS Raw Data

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\JAN-OCT2005\1101205\1012102.D Vial: 2
Acq On : 12 Oct 2005 8:54 am Operator: JTF
Sample : qchk100 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\HPCHEM\1\JAN-OCT2005\1101205\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	fluorobenzene	1.000	1.000	0.0	91	0.00
2	T	dichlorodifluoromethane	0.364	0.366	-0.5	87	0.02
3	TP	chloromethane	0.463	0.470	-1.5	92	-0.03
4	TC	vinyl chloride	0.548	0.537	2.0	87	0.02
5	T	bromomethane	0.158	0.157	0.6	0#	0.03
6	T	chloroethane	0.233	0.265	-13.7	0#	0.05
7	T	trichlorofluoromethane	0.391	0.394	-0.8	86	0.07
8	T	acrolein	0.038	0.043	-13.2	113	0.00
9	TC	1,1-dichloroethene	0.340	0.327	3.8	91	0.05
10	T	acetone	0.217	0.229	-5.5	114	-0.01
11	T	methylene chloride	0.310	0.295	4.8	95	0.03
12	T	trans-1,2-dichloroethene	0.391	0.369	5.6	93	0.02
13	T	acrylonitrile	0.070	0.071	-1.4	100	-0.01
14	TP	1,1-dichloroethane	0.724	0.689	4.8	92	0.02
15	T	2,2-dichloropropane	0.460	0.465	-1.1	98	0.02
16	T	cis-1,2-dichloroethene	0.379	0.364	4.0	95	0.00
17	T	2-butanone	0.290	0.306	-5.5	112	-0.02
18	T	bromochloromethane	0.115	0.118	-2.6	97	0.00
19	TC	chloroform	0.505	0.490	3.0	93	0.00
20	T	1,1,1-trichloroethane	0.471	0.459	2.5	92	0.00
21	T	carbon tetrachloride	0.334	0.321	3.9	89	0.00
22	T	1,1-dichloropropene	0.492	0.467	5.1	91	0.00
23	S	1,2-dichloroethane-d4	0.096	0.107	-11.5	102	0.00
24	T	benzene	1.474	1.385	6.0	94	0.00
25	T	1,2-dichloroethane	0.306	0.317	-3.6	102	0.00
26	T	trichloroethene	0.379	0.351	7.4	88	0.00
27	TC	1,2-dichloropropane	0.372	0.353	5.1	94	0.00
28	T	dibromomethane	0.129	0.128	0.8	100	0.00
29	T	bromodichloromethane	0.317	0.317	0.0	97	-0.01
30	T	2-chloroethyl vinyl ether	0.232	0.230	0.9	93	-0.02
31	T	cis-1,3-dichloropropene	0.424	0.418	1.4	98	-0.01
32	T	4-methyl-2-pentanone	0.512	0.540	-5.5	108	-0.03
33	S	toluene-d8	0.605	0.608	-0.5	91	-0.01
34	TC	toluene	1.198	1.146	4.3	93	0.00
35	T	Iodomethane	0.152	0.145	4.6	79	0.05
36	T	trans-1,3-dichloropropene	0.312	0.316	-1.3	100	-0.01
37	T	Vinyl acetate	0.039	0.052	-33.3#	148	0.00
38	T	Carbon disulfide	1.183	1.130	4.5	93	0.03
39	I	bromochloropropane	1.000	1.000	0.0	93	-0.01
40	T	1,1,2-trichloroethane	1.676	1.647	1.7	98	-0.01
41	T	tetrachloroethene	3.688	3.377	8.4	90	0.00
42	T	1,3-dichloropropane	3.636	3.566	1.9	101	-0.01
43	T	2-hexanone	4.353	4.373	-0.5	104	-0.02
44	T	dibromochloromethane	1.961	1.914	2.4	96	-0.01
45	T	1,2-dibromoethane	1.747	1.716	1.8	99	0.00
46	TP	chlorobenzene	8.383	7.709	8.0	92	-0.01
47	T	1,1,1,2-tetrachloroethane	2.498	2.321	7.1	91	-0.01
48	TP	bromoform	1.126	1.123	0.3	99	-0.01
49	S	4-bromofluorobenzene	2.981	2.929	1.7	91	-0.01
50	T	bromobenzene	2.774	2.553	8.0	93	-0.01
51	TP	1,1,2,2-tetrachloroethane	2.066	2.060	0.3	105	-0.01
52	T	1,2,3-trichloropropane	0.510	0.517	-1.4	104	-0.01
53		chlorobenzene-d5	1.000	1.000	0.0	92	-0.01

(#) = Out of Range

Data File : D:\HPCHEM\1\JAN-OCT2005\1101205\1012102.D Vial: 2
Acq On : 12 Oct 2005 8:54 am Operator: JTF
Sample : qchk100 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\HPCHEM\1\JAN-OCT2005\1101205\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
54	TC	ethylbenzene	3.814	3.455	9.4	92	0.00
55	T	m/p-xylene	1.409	1.289	8.5	91	-0.01
56	T	styrene	1.578	1.429	9.4	92	0.00
57	T	o-xylene	1.245	1.118	10.2	90	-0.01
58	T	isopropylbenzene	3.076	2.699	12.3	89	0.00
59	T	n-propyl benzene	4.151	3.598	13.3	89	0.00
60	T	2-chlorotoluene	0.567	0.507	10.6	90	-0.01
61	T	4-chlorotoluene	2.228	2.012	9.7	92	-0.01
62	T	1,3,5-trimethylbenzene	2.360	2.094	11.3	88	-0.01
63	T	tert-butylbenzene	1.857	1.596	14.1	86	-0.01
64	T	1,2,4-trimethylbenzene	2.680	2.294	14.4	89	-0.01
65	T	sec-butylbenzene	3.325	2.784	16.3	84	-0.01
66	T	1,3-dichlorobenzene	0.995	0.877	11.9	90	-0.01
67	T	4-isopropyltoluene	2.287	1.888	17.4	84	-0.01
68	T	1,4-dichlorobenzene	0.942	0.821	12.8	91	-0.01
69	T	1,2-dichlorobenzene	0.766	0.673	12.1	90	-0.01
70	T	n-butylbenzene	2.402	1.956	18.6	85	0.00
71	T	1,2-dibromo-3-chloropropane	0.030	0.025	16.7	89	-0.01
72	T	1,2,4-trichlorobenzene	0.165	0.105	36.4#	71	0.00
73	T	hexachlorobutadiene	0.179	0.091	49.2#	48#	0.00
74	T	naphthalene	0.129	0.071	45.0#	64	-0.01
75	T	trans-1,4-Dichloro-2-butene	0.073	0.074	-1.4	105	-0.02
76	T	1,2,3-trichlorobenzene	0.054	0.023	57.4#	46#	-0.01
77	T	MTBE	1.296	1.291	0.4	102	-0.01
78	T	DIPE	2.608	2.504	4.0	95	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data File : D:\HPCHEM\1\JAN-OCT2005\1101205\1012102.D Vial: 2
Acq On : 12 Oct 2005 8:54 am Operator: JTF
Sample : qchk100 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 8:20 2005 Quant Results File: 8260SSC.RES

Quant Method : D:\HPCHEM\1\DATA\1101205\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) fluorobenzene	8.77	96	5007341	50.00	ppb		0.00
39) bromochloropropane	11.99	79	469804	50.00	ppb		-0.01
53) chlorobenzene-d5	13.81	117	2559030	50.00	ppb		-0.01
System Monitoring Compounds							
23) 1,2-dichloroethane-d4	8.21	65	535925	55.83	ppb		0.00
Spiked Amount 50.000			Recovery	=	111.66%		
33) toluene-d8	11.37	98	3042371	50.25	ppb		-0.01
Spiked Amount 50.000			Recovery	=	100.50%		
49) 4-bromofluorobenzene	15.89	95	1376107	49.14	ppb		-0.01
Spiked Amount 50.000			Recovery	=	98.28%		
Target Compounds							Qvalue
2) dichlorodifluoromethane	2.01	85	1831494	50.26	ppb		99
3) chloromethane	2.26	50	2355013	50.75	ppb		100
4) vinyl chloride	2.39	62	2687703	48.95	ppb		99
5) bromomethane	2.78	94	788157	58.33	ppb		97
6) chloroethane	2.92	64	1327748	76.07	ppb		97
7) trichlorofluoromethane	3.28	101	1971132	50.28	ppb		98
8) acrolein	3.89	56	2153500	568.39	ppb		100
9) 1,1-dichloroethene	4.06	96	1636507	48.11	ppb		99
10) acetone	4.14	43	1144672	57.26	ppb		99
11) methylene chloride	4.85	84	1478689	47.61	ppb		97
12) trans-1,2-dichloroethene	5.29	96	1845770	47.15	ppb		99
13) acrylonitrile	5.23	53	3564349	506.42	ppb		99
14) 1,1-dichloroethane	5.97	63	3449593	47.55	ppb		99
15) 2,2-dichloropropane	6.91	77	2325941	50.44	ppb		97
16) cis-1,2-dichloroethene	6.90	96	1824501	48.02	ppb		98
17) 2-butanone	6.93	43	1530590	52.73	ppb		99
18) bromochloromethane	7.28	128	592211	51.37	ppb		95
19) chloroform	7.42	83	2452048	48.45	ppb		98
20) 1,1,1-trichloroethane	7.72	97	2297238	48.71	ppb		99
21) carbon tetrachloride	8.00	117	1605102	47.96	ppb		98
22) 1,1-dichloropropene	7.99	75	2337037	47.45	ppb		99
24) benzene	8.33	78	6932715	46.96	ppb	#	84
25) 1,2-dichloroethane	8.33	62	1585433	51.72	ppb		98
26) trichloroethene	9.37	95	1759598	46.38	ppb		95
27) 1,2-dichloropropane	9.72	63	1769584	47.56	ppb		94
28) dibromomethane	9.90	93	640922	49.56	ppb		91
29) bromodichloromethane	10.17	83	1586871	49.97	ppb		99
30) 2-chloroethyl vinyl ether	10.69	106	1152632	45.72	ppb		95
31) cis-1,3-dichloropropene	10.92	75	2093411	49.35	ppb		98
32) 4-methyl-2-pentanone	11.18	43	2702318	52.66	ppb		100
34) toluene	11.49	92	5737467	47.81	ppb	#	35
35) Iodomethane	4.30	142	725480	41.02	ppb		97
36) trans-1,3-dichloropropene	11.84	75	1582654	50.66	ppb		99
37) Vinyl acetate	6.08	86	645585	224.23	ppb		94
38) Carbon disulfide	4.39	76	5658093	47.76	ppb		99
40) 1,1,2-trichloroethane	12.15	83	773797	49.14	ppb		98
41) tetrachloroethene	12.41	166	1586687	49.87	ppb		99
42) 1,3-dichloropropane	12.42	76	1675476	49.04	ppb		99
43) 2-hexanone	12.60	43	2054512	50.23	ppb		100
44) dibromochloromethane	12.81	129	899014	48.78	ppb		99
45) 1,2-dibromoethane	12.99	107	806414	49.13	ppb		97
46) chlorobenzene	13.86	112	3621614	45.98	ppb		98
47) 1,1,1,2-tetrachloroethane	14.01	131	1090555	50.39	ppb		99

(#) = qualifier out of range (m) = manual integration
1012102.D 6210D.M Tue Nov 08 15:08:28 2005

Data File : D:\HPCHEM\1\JAN-OCT2005\1101205\1012102.D Vial: 2
Acq On : 12 Oct 2005 8:54 am Operator: JTF
Sample : qchk100 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 8:20 2005 Quant Results File: 8260SSC.RES

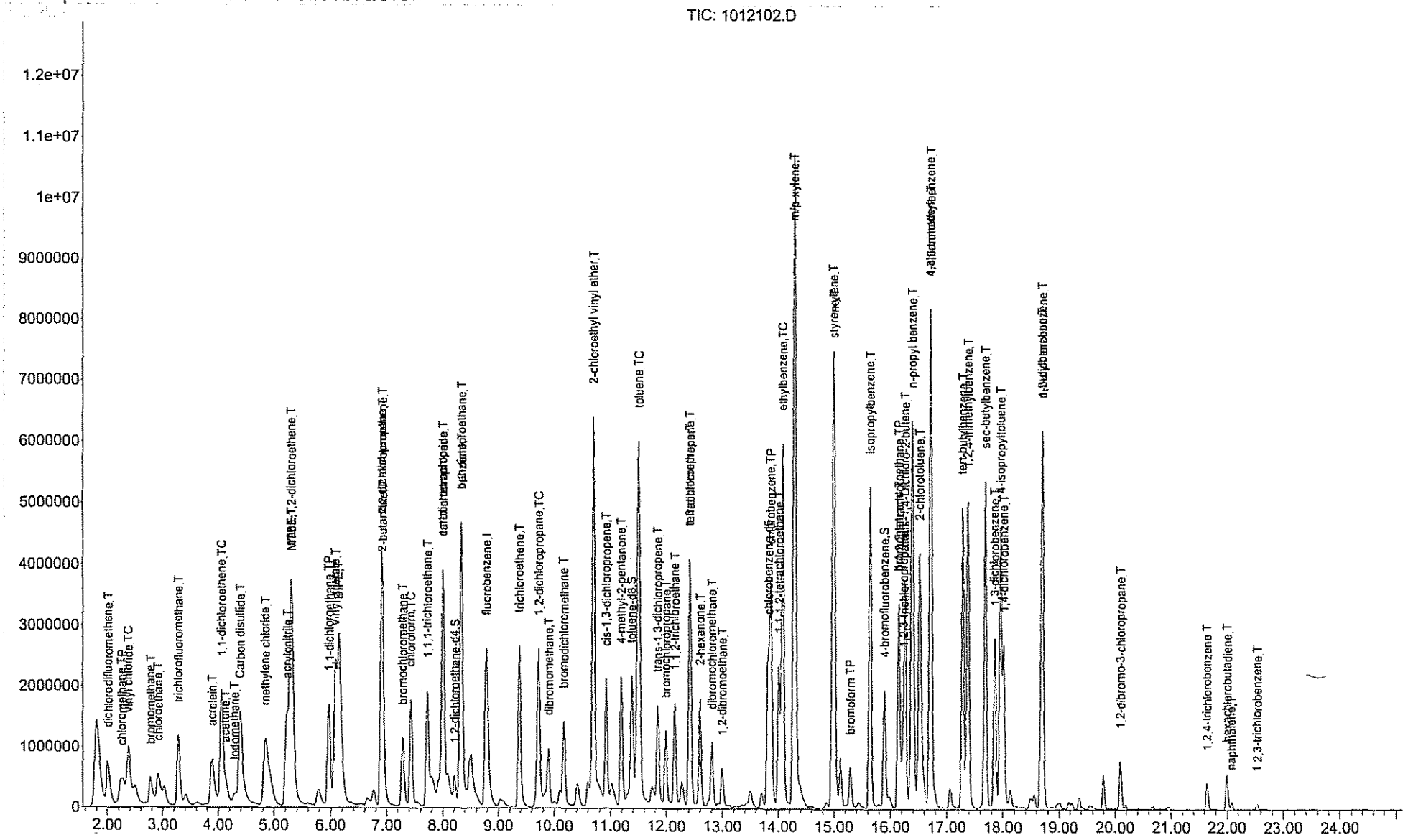
Quant Method : D:\HPCHEM\1\DATA\1101205\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
48) bromoform	15.29	173	527553	49.87 ppb		97
50) bromobenzene	16.14	156	1199351	50.31 ppb		96
51) 1,1,2,2-tetrachloroethane	16.15	83	967758	55.20 ppb		98
52) 1,2,3-trichloropropane	16.22	110	242731	50.62 ppb		89
54) ethylbenzene	14.08	91	8840448	48.62 ppb	#	78
55) m/p-xylene	14.28	106	6599143	97.87 ppb	#	100
56) styrene	15.00	104	3656353	45.26 ppb		100
57) o-xylene	14.97	106	2860515	44.88 ppb	#	73
58) isopropylbenzene	15.64	105	6906567	46.88 ppb	#	88
59) n-propyl benzene	16.37	91	9207995	47.93 ppb	#	80
60) 2-chlorotoluene	16.51	126	1296189	48.44 ppb		98
61) 4-chlorotoluene	16.70	91	5147944	49.12 ppb		97
62) 1,3,5-trimethylbenzene	16.70	105	5357961	47.68 ppb		93
63) tert-butylbenzene	17.27	119	4084214	46.26 ppb		88
64) 1,2,4-trimethylbenzene	17.37	105	5870364	45.88 ppb	#	74
65) sec-butylbenzene	17.68	105	7125610	44.92 ppb	#	70
66) 1,3-dichlorobenzene	17.84	146	2245185	47.52 ppb		99
67) 4-isopropyltoluene	17.95	119	4831319	44.34 ppb	#	84
68) 1,4-dichlorobenzene	18.01	146	2101230	47.09 ppb		99
69) 1,2-dichlorobenzene	18.68	146	1721495	47.23 ppb		99
70) n-butylbenzene	18.70	91	5006425	43.50 ppb	#	85
71) 1,2-dibromo-3-chloropropan	20.09	75	326009	212.21 ppb		96
72) 1,2,4-trichlorobenzene	21.64	180	269637	34.01 ppb		95
73) hexachlorobutadiene	21.99	225	233028	24.82 ppb		94
74) naphthalene	22.07	128	182194	30.74 ppb		99
75) trans-1,4-Dichloro-2-buten	16.25	89	947658	252.15 ppb		94
76) 1,2,3-trichlorobenzene	22.52	180	58607	23.55 ppb		99
77) MTBE	5.32	73	3303235	49.80 ppb		95
78) DIPE	6.14	45	6407866	48.00 ppb		98

(#) = qualifier out of range (m) = manual integration
1012102.D 6210D.M Tue Nov 08 15:08:29 2005

Data File : D:\HPCHEM\1\JAN-OCT2005\1101205\1012102.D Vial: 2
Acq On : 12 Oct 2005 8:54 am Operator: JTF
Sample : qchk100 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 8:20 2005 Quant Results File: 8260SSC.RES

Method : D:\HPCHEM\1\JAN-OCT2005\1101205\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Fri Aug 12 15:45:58 2005
Response via : Initial Calibration



1012102.D 6210D.M Tue Nov 08 15:08:31 2005

PARADIGM ANALYTICAL LABORATORIES, INC.

N.C. CERTIFICATION #481

Data File : D:\HPCHEM\1\JAN-OCT2005\1101205\1012127.D Vial: 27
Acq On : 12 Oct 2005 9:54 pm Operator: JTF
Sample : qchk050 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\HPCHEM\1\JAN-OCT2005\1101205\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	fluorobenzene	1.000	1.000	0.0	80	0.00
2	T	dichlorodifluoromethane	0.364	0.416	-14.3	88	0.02
3	TP	chloromethane	0.463	0.525	-13.4	91	-0.02
4	TC	vinyl chloride	0.548	0.617	-12.6	89	0.02
5	T	bromomethane	0.158	0.178	-12.7	0#	0.04
6	T	chloroethane	0.233	0.301	-29.2#	0#	0.07
7	T	trichlorofluoromethane	0.391	0.463	-18.4	89	0.08
8	T	acrolein	0.038	0.034	10.5	78	0.00
9	TC	1,1-dichloroethene	0.340	0.337	0.9	83	0.05
10	T	acetone	0.217	0.173	20.3	76	-0.02
11	T	methylene chloride	0.310	0.279	10.0	80	0.03
12	T	trans-1,2-dichloroethene	0.391	0.365	6.6	81	0.02
13	T	acrylonitrile	0.070	0.061	12.9	76	-0.02
14	TP	1,1-dichloroethane	0.724	0.688	5.0	82	0.00
15	T	2,2-dichloropropane	0.460	0.463	-0.7	87	0.00
16	T	cis-1,2-dichloroethene	0.379	0.349	7.9	81	0.00
17	T	2-butanone	0.290	0.216	25.5#	70	-0.02
18	T	bromochloromethane	0.115	0.112	2.6	82	0.00
19	TC	chloroform	0.505	0.484	4.2	81	0.00
20	T	1,1,1-trichloroethane	0.471	0.485	-3.0	86	0.00
21	T	carbon tetrachloride	0.334	0.348	-4.2	86	0.00
22	T	1,1-dichloropropene	0.492	0.466	5.3	81	0.00
23	S	1,2-dichloroethane-d4	0.096	0.099	-3.1	84	0.00
24	T	benzene	1.474	1.335	9.4	80	0.00
25	T	1,2-dichloroethane	0.306	0.292	4.6	83	0.00
26	T	trichloroethene	0.379	0.363	4.2	80	0.00
27	TC	1,2-dichloropropane	0.372	0.333	10.5	79	0.00
28	T	dibromomethane	0.129	0.112	13.2	78	0.00
29	T	bromodichloromethane	0.317	0.302	4.7	82	-0.01
30	T	2-chloroethyl vinyl ether	0.232	0.194	16.4	69	-0.02
31	T	cis-1,3-dichloropropene	0.424	0.387	8.7	80	-0.01
32	T	4-methyl-2-pentanone	0.512	0.396	22.7	70	-0.03
33	S	toluene-d8	0.605	0.602	0.5	80	-0.01
34	TC	toluene	1.198	1.115	6.9	80	0.00
35	T	Iodomethane	0.152	0.163	-7.2	78	0.04
36	T	trans-1,3-dichloropropene	0.312	0.277	11.2	78	-0.01
37	T	Vinyl acetate	0.039	0.032	17.9	81	0.00
38	T	Carbon disulfide	1.183	1.115	5.7	82	0.04
39	I	bromochloropropane	1.000	1.000	0.0	80	-0.01
40	T	1,1,2-trichloroethane	1.676	1.471	12.2	75	-0.01
41	T	tetrachloroethene	3.688	3.564	3.4	81	0.00
42	T	1,3-dichloropropane	3.636	3.225	11.3	78	-0.01
43	T	2-hexanone	4.353	3.235	25.7#	66	-0.02
44	T	dibromochloromethane	1.961	1.825	6.9	78	-0.01
45	T	1,2-dibromoethane	1.747	1.538	12.0	76	0.00
46	TP	chlorobenzene	8.383	7.570	9.7	78	-0.01
47	T	1,1,1,2-tetrachloroethane	2.498	2.342	6.2	79	-0.01
48	TP	bromoform	1.126	0.984	12.6	74	-0.01
49	S	4-bromofluorobenzene	2.981	2.944	1.2	78	-0.01
50	T	bromobenzene	2.774	2.508	9.6	78	-0.01
51	TP	1,1,2,2-tetrachloroethane	2.066	1.667	19.3	73	-0.01
52	T	1,2,3-trichloropropane	0.510	0.433	15.1	75	-0.02
53		chlorobenzene-d5	1.000	1.000	0.0	79	-0.01

(#) = Out of Range

Data File : D:\HPCHEM\1\JAN-OCT2005\1101205\1012127.D Vial: 27
Acq On : 12 Oct 2005 9:54 pm Operator: JTF
Sample : qchk050 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : D:\HPCHEM\1\JAN-OCT2005\1101205\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
54	TC	ethylbenzene	3.814	3.525	7.6	81	0.00
55	T	m/p-xylene	1.409	1.289	8.5	78	-0.01
56	T	styrene	1.578	1.378	12.7	76	0.00
57	T	o-xylene	1.245	1.106	11.2	76	-0.01
58	T	isopropylbenzene	3.076	2.766	10.1	79	-0.01
59	T	n-propyl benzene	4.151	3.680	11.3	78	0.00
60	T	2-chlorotoluene	0.567	0.506	10.8	78	-0.01
61	T	4-chlorotoluene	2.228	1.976	11.3	78	-0.01
62	T	1,3,5-trimethylbenzene	2.360	2.119	10.2	77	-0.01
63	T	tert-butylbenzene	1.857	1.709	8.0	80	-0.01
64	T	1,2,4-trimethylbenzene	2.680	2.291	14.5	77	-0.01
65	T	sec-butylbenzene	3.325	2.952	11.2	77	-0.01
66	T	1,3-dichlorobenzene	0.995	0.845	15.1	75	-0.01
67	T	4-isopropyltoluene	2.287	1.986	13.2	77	-0.01
68	T	1,4-dichlorobenzene	0.942	0.791	16.0	75	-0.01
69	T	1,2-dichlorobenzene	0.766	0.642	16.2	74	-0.01
70	T	n-butylbenzene	2.402	2.000	16.7	75	0.00
71	T	1,2-dibromo-3-chloropropane	0.030	0.022	26.7#	65	-0.02
72	T	1,2,4-trichlorobenzene	0.165	0.094	43.0#	55	-0.01
73	T	hexachlorobutadiene	0.179	0.129	27.9#	58	0.00
74	T	naphthalene	0.129	0.063	51.2#	49#	-0.01
75	T	trans-1,4-Dichloro-2-butene	0.073	0.059	19.2	71	-0.01
76	T	1,2,3-trichlorobenzene	0.054	0.023	57.4#	40#	0.00
77	T	MTBE	1.296	1.114	14.0	76	-0.01
78	T	DIPE	2.608	2.348	10.0	77	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantification Report (Not Reviewed)

Data File : D:\HPCHEM\1\JAN-OCT2005\1101205\1012127.D Vial: 27
Acq On : 12 Oct 2005 9:54 pm Operator: JTF
Sample : qchk050 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 21:20 2005 Quant Results File: 8260SSC.RES

Quant Method : D:\HPCHEM\1\DATA\1101205\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) fluorobenzene	8.78	96	4438959	50.00	ppb		0.00
39) bromochloropropane	11.99	79	402910	50.00	ppb		-0.01
53) chlorobenzene-d5	13.81	117	2205216	50.00	ppb		-0.01
System Monitoring Compounds							
23) 1,2-dichloroethane-d4	8.21	65	441265	51.85	ppb		0.00
Spiked Amount 50.000			Recovery	=	103.70%		
33) toluene-d8	11.37	98	2671141	49.77	ppb		-0.01
Spiked Amount 50.000			Recovery	=	99.54%		
49) 4-bromofluorobenzene	15.89	95	1186340	49.39	ppb		-0.01
Spiked Amount 50.000			Recovery	=	98.78%		
Target Compounds							Qvalue
2) dichlorodifluoromethane	2.01	85	1846916	57.17	ppb		99
3) chloromethane	2.27	50	2331509	56.67	ppb		97
4) vinyl chloride	2.39	62	2737413	56.24	ppb		100
5) bromomethane	2.79	94	789831	67.10	ppb		95
6) chloroethane	2.94	64	1337995	88.07	ppb		99
7) trichlorofluoromethane	3.29	101	2054138	59.11	ppb		95
8) acrolein	3.89	56	1494657	445.01	ppb		96
9) 1,1-dichloroethene	4.06	96	1494639	49.57	ppb		98
10) acetone	4.13	43	768323	43.27	ppb		94
11) methylene chloride	4.85	84	1239330	45.01	ppb		97
12) trans-1,2-dichloroethene	5.29	96	1622193	46.75	ppb		97
13) acrylonitrile	5.22	53	2697914	432.40	ppb		98
14) 1,1-dichloroethane	5.96	63	3054821	47.50	ppb		99
15) 2,2-dichloropropane	6.90	77	2053483	50.24	ppb		97
16) cis-1,2-dichloroethene	6.90	96	1549961	46.02	ppb		93
17) 2-butanone	6.93	43	959502	37.29	ppb		98
18) bromochloromethane	7.28	128	495674	48.50	ppb		93
19) chloroform	7.43	83	2147981	47.88	ppb		100
20) 1,1,1-trichloroethane	7.72	97	2153089	51.50	ppb		98
21) carbon tetrachloride	7.99	117	1544649	52.06	ppb		99
22) 1,1-dichloropropene	7.99	75	2069600	47.40	ppb		99
24) benzene	8.32	78	5927231	45.29	ppb	#	85
25) 1,2-dichloroethane	8.33	62	1294163	47.62	ppb		97
26) trichloroethene	9.37	95	1610302	47.88	ppb		93
27) 1,2-dichloropropane	9.72	63	1478867	44.83	ppb	#	90
28) dibromomethane	9.89	93	499271	43.55	ppb		94
29) bromodichloromethane	10.17	83	1339754	47.59	ppb		98
30) 2-chloroethyl vinyl ether	10.69	106	860149	39.33	ppb		97
31) cis-1,3-dichloropropene	10.92	75	1718688	45.70	ppb		99
32) 4-methyl-2-pentanone	11.18	43	1757577	38.63	ppb		99
34) toluene	11.49	92	4947886	46.51	ppb	#	38
35) Iodomethane	4.29	142	723030	45.02	ppb		99
36) trans-1,3-dichloropropene	11.84	75	1231742	44.47	ppb		97
37) Vinyl acetate	6.09	86	354700	125.30	ppb		86
38) Carbon disulfide	4.40	76	4951490	47.15	ppb		99
40) 1,1,2-trichloroethane	12.15	83	592851	43.90	ppb		99
41) tetrachloroethene	12.41	166	1436104	52.89	ppb		99
42) 1,3-dichloropropane	12.42	76	1299374	44.34	ppb		95
43) 2-hexanone	12.60	43	1303485	37.16	ppb		97
44) dibromochloromethane	12.81	129	735258	46.52	ppb		100
45) 1,2-dibromoethane	12.99	107	619746	44.03	ppb		99
46) chlorobenzene	13.86	112	3050154	45.15	ppb		97
47) 1,1,1,2-tetrachloroethane	14.01	131	943774	50.89	ppb		98

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\JAN-OCT2005\1101205\1012127.D Vial: 27
Acq On : 12 Oct 2005 9:54 pm Operator: JTF
Sample : qchk050 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 21:20 2005 Quant Results File: 8260SSC.RES

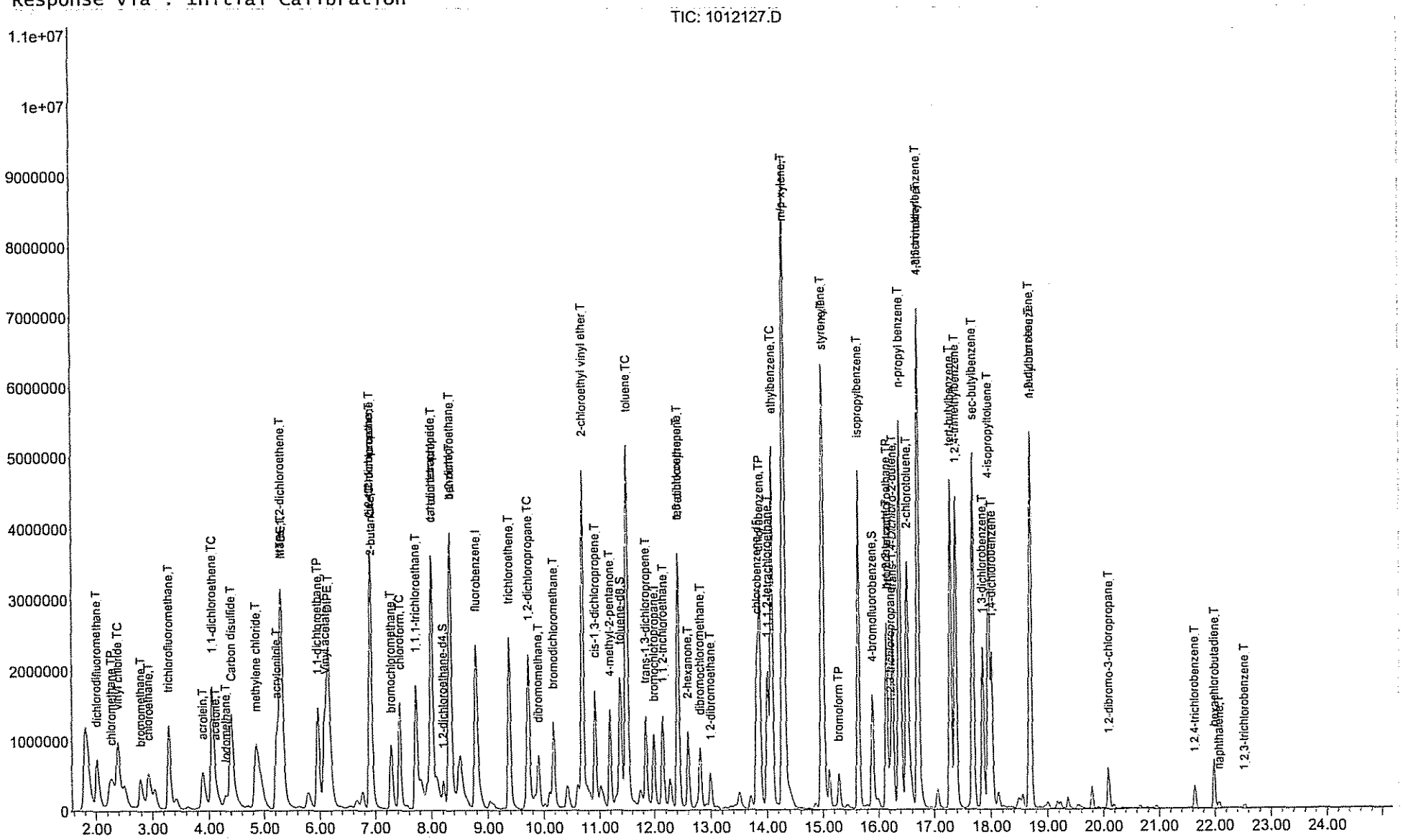
Quant Method : D:\HPCHEM\1\DATA\1101205\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
48)	bromoform	15.29	173	396271	43.68	ppb		99
50)	bromobenzene	16.14	156	1010427	49.33	ppb		95
51)	1,1,2,2-tetrachloroethane	16.15	83	671513	43.58	ppb		99
52)	1,2,3-trichloropropane	16.21	110	174324	42.39	ppb	#	67
54)	ethylbenzene	14.08	91	7773498	49.65	ppb	#	78
55)	m/p-xylene	14.28	106	5684057	97.82	ppb	#	100
56)	styrene	15.00	104	3038879	43.65	ppb		100
57)	o-xylene	14.97	106	2438719	44.40	ppb	#	71
58)	isopropylbenzene	15.63	105	6099533	48.07	ppb	#	88
59)	n-propyl benzene	16.37	91	8115627	49.09	ppb	#	80
60)	2-chlorotoluene	16.51	126	1115774	48.38	ppb		97
61)	4-chlorotoluene	16.70	91	4356756	48.15	ppb		99
62)	1,3,5-trimethylbenzene	16.70	105	4672029	48.31	ppb		94
63)	tert-butylbenzene	17.27	119	3768890	49.84	ppb		89
64)	1,2,4-trimethylbenzene	17.37	105	5052183	45.82	ppb	#	75
65)	sec-butylbenzene	17.68	105	6510007	47.70	ppb	#	71
66)	1,3-dichlorobenzene	17.84	146	1862694	45.64	ppb		98
67)	4-isopropyltoluene	17.95	119	4379059	46.71	ppb	#	84
68)	1,4-dichlorobenzene	18.01	146	1743293	45.22	ppb		99
69)	1,2-dichlorobenzene	18.68	146	1415526	44.89	ppb		99
70)	n-butylbenzene	18.70	91	4410468	44.49	ppb	#	84
71)	1,2-dibromo-3-chloropropan	20.08	75	238697	180.31	ppb		89
72)	1,2,4-trichlorobenzene	21.63	180	207293	29.93	ppb		96
73)	hexachlorobutadiene	21.99	225	284103	37.03	ppb		99
74)	naphthalene	22.07	128	137969	26.92	ppb	#	93
75)	trans-1,4-Dichloro-2-buten	16.26	89	646055	199.48	ppb		91
76)	1,2,3-trichlorobenzene	22.53	180	50786	23.70	ppb		95
77)	MTBE	5.32	73	2456489	42.97	ppb		93
78)	DIPE	6.14	45	5178281	45.01	ppb		96

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\JAN-OCT2005\1101205\1012127.D Vial: 27
Acq On : 12 Oct 2005 9:54 pm Operator: JTF
Sample : qchk050 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 21:20 2005 Quant Results File: 8260SSC.RES

Method : D:\HPCHEM\1\JAN-OCT2005\1101205\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration



N.C. CERTIFICATION #481
PARADIGM ANALYTICAL LABORATORIES, INC.

8260 Calibration Raw Data

PARADIGM ANALYTICAL LABORATORIES, INC.

Response Factor Report MSD1

Method : D:\HPCHEM\1\JAN-OCT2005\1101105\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration

Calibration Files
5 =1011116.D 4 =1011115.D 3 =1011113.D
2 =1011112.D 1 =1011110.D 6 =1011111.D

		Compound	5	4	3	2	1	6	Avg	%RSD
1)	I	fluorobenzene	----------ISTD----------							
2)	T	dichlorodifluoromet	0.356	0.358	0.381	0.386	0.354	0.345	0.364	4.13
3)	TP	chloromethane	0.495	0.479	0.462	0.460	0.446	0.424	0.463	5.00
4)	TC	vinyl chloride	0.583	0.578	0.559	0.537	0.515	0.495	0.548	6.11
5)	T	bromomethane	0.119	0.139			0.210	0.188	0.158	24.43
6)	T	chloroethane	0.156	0.185		0.292	0.272	0.261	0.233	25.44
7)	T	trichlorofluorometh	0.352	0.383	0.417	0.421	0.391	0.387	0.391	5.86
8)	T	acrolein	0.035	0.038	0.035	0.043	0.040	0.040	0.038	8.45
9)	TC	1,1-dichloroethene	0.315	0.313	0.325	0.352	0.410	0.341	0.340	9.97
10)	T	acetone	0.200	0.207	0.183	0.215	0.271	0.257	0.217	16.12
11)	T	methylene chloride	0.290	0.294	0.281	0.317	0.377	0.323	0.310	10.79
12)	T	trans-1,2-dichloroe	0.371	0.368	0.361	0.402	0.474	0.391	0.391	10.13
13)	T	acrylonitrile	0.077	0.076	0.064	0.073	0.066	0.070	0.070	7.60
14)	TP	1,1-dichloroethane	0.701	0.695	0.676	0.731	0.845	0.728	0.724	7.79
15)	T	2,2-dichloropropane	0.410	0.405	0.430	0.496	0.584	0.478	0.460	14.06
16)	T	cis-1,2-dichloroeth	0.368	0.362	0.347	0.386	0.447	0.384	0.379	8.68
17)	T	2-butanone	0.283	0.287	0.248	0.278	0.339	0.342	0.290	12.94
18)	T	bromochloromethane	0.101	0.109	0.110	0.121	0.131	0.126	0.115	9.60
19)	TC	chloroform	0.465	0.468	0.480	0.528	0.595	0.527	0.505	9.43
20)	T	1,1,1-trichloroetha	0.418	0.423	0.451	0.506	0.567	0.483	0.471	11.19
21)	T	carbon tetrachlorid	0.287	0.296	0.325	0.362	0.411	0.338	0.334	12.64
22)	T	1,1-dichloropropene	0.468	0.465	0.463	0.508	0.579	0.487	0.492	8.45
23)	S	1,2-dichloroethane-	0.092	0.092	0.095	0.095	0.101	0.106	0.096	5.83
24)	T	benzene	1.241	1.420	1.340	1.508	1.885	1.525	1.474	13.94
25)	T	1,2-dichloroethane	0.279	0.287	0.283	0.318	0.356	0.331	0.306	9.67
26)	T	trichloroethene	0.361	0.364	0.364	0.386	0.445	0.366	0.379	7.98
27)	TC	1,2-dichloropropane	0.374	0.365	0.341	0.371	0.427	0.369	0.372	7.24
28)	T	dibromomethane	0.125	0.124	0.117	0.130	0.156	0.132	0.129	10.18
29)	T	bromodichloromethan	0.290	0.297	0.295	0.331	0.378	0.328	0.317	9.96
30)	T	2-chloroethyl vinyl	0.281	0.281	0.225	0.237	0.167	0.195	0.232	18.04
31)	T	cis-1,3-dichloropro	0.416	0.414	0.388	0.435	0.481	0.427	0.424	7.03
32)	T	4-methyl-2-pentanon	0.495	0.521	0.453	0.484	0.593	0.571	0.512	10.23
33)	S	toluene-d8	0.609	0.608	0.608	0.592	0.607	0.597	0.605	1.14
34)	TC	toluene	1.072	1.154	1.118	1.228	1.466	1.187	1.198	10.68
35)	T	Iodomethane	0.220	0.195	0.167	0.127	0.086	0.079	0.152	36.40
36)	T	trans-1,3-dichlorop	0.297	0.301	0.287	0.315	0.360	0.328	0.312	8.07
37)	T	vinyl acetate	0.026	0.029	0.032	0.048	0.054	0.054	0.039	31.22
38)	T	carbon disulfide	1.119	1.123	1.100	1.219	1.427	1.175	1.183	9.76
39)	I	bromochloropropane	----------ISTD----------							
40)	T	1,1,2-trichloroetha	1.557	1.580	1.577	1.763	1.923	1.746	1.676	8.25
41)	T	tetrachloroethene	3.133	3.231	3.514	3.940	4.894	3.671	3.688	16.15
42)	T	1,3-dichloropropane	3.393	3.452	3.311	3.751	4.254	3.886	3.636	9.46
43)	T	2-hexanone	3.988	4.241	3.909	4.457	5.124	4.813	4.353	10.82
44)	T	dibromochloromethan	1.724	1.801	1.866	2.093	2.379	2.035	1.961	11.49
45)	T	1,2-dibromoethane	1.633	1.664	1.617	1.821	2.048	1.805	1.747	8.98
46)	TP	chlorobenzene	0.748	0.757	0.780	0.871	1.094	0.821	0.838	E1 14.32
47)	T	1,1,1,2-tetrachloro	2.107	2.229	2.375	2.611	3.312	2.471	2.498	15.77
48)	TP	bromoform	0.950	1.046	1.059	1.157	1.372	1.219	1.126	12.25
49)	S	4-bromofluorobenzen	2.796	2.935	3.021	3.036	3.025	2.948	2.981	3.32
50)	T	bromobenzene	2.303	2.462	2.564	2.875	3.781	2.785	2.774	17.43
51)	TP	1,1,2,2-tetrachloro	1.706	1.861	1.837	2.157	2.652	2.311	2.066	15.94
52)	T	1,2,3-trichloroprop	0.438	0.471	0.465	0.520	0.627	0.567	0.510	12.97
53)		chlorobenzene-d5	----------ISTD----------							
54)	TC	ethylbenzene		3.446	3.461	3.763	5.009	3.574	3.814	15.65
55)	T	m/p-xylene	1.183	1.346	1.299	1.446	1.880	1.354	1.409	15.77

(#) = Out of Range ### Number of calibration levels exceeded format ###

Response Factor Report MSD1

Method : D:\HPCHEM\1\JAN-OCT2005\1101105\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration

Calibration Files
5 =1011116.D 4 =1011115.D 3 =1011113.D
2 =1011112.D 1 =1011110.D 6 =1011111.D

		Compound	5	4	3	2	1	6	Avg	%RSD
56)	T	styrene	1.539	1.506	1.425	1.567	1.999	1.494	1.578	12.07
57)	T	o-xylene	1.181	1.168	1.146	1.251	1.614	1.172	1.245	13.30
58)	T	isopropylbenzene		2.827	2.785	2.977	4.188	2.758	3.076	17.92
59)	T	n-propyl benzene		3.487	3.730	4.104	5.859	3.790	4.151	20.77
60)	T	2-chlorotoluene	0.485	0.518	0.515	0.561	0.813	0.546	0.567	19.53
61)	T	4-chlorotoluene	1.856	2.044	2.004	2.289	3.118	2.166	2.228	18.64
62)	T	1,3,5-trimethylbenz	1.973	2.192	2.171	2.363	3.320	2.208	2.360	18.66
63)	T	tert-butylbenzene	1.588	1.685	1.699	1.842	2.681	1.709	1.857	20.06
64)	T	1,2,4-trimethylbenz		2.449	2.365	2.633	3.582	2.498	2.680	16.82
65)	T	sec-butylbenzene		2.967	3.031	3.205	4.621	2.908	3.325	19.47
66)	T	1,3-dichlorobenzene	0.876	0.905	0.890	1.029	1.350	0.977	0.995	16.63
67)	T	4-isopropyltoluene		2.062	2.050	2.257	3.127	2.048	2.287	18.36
68)	T	1,4-dichlorobenzene	0.821	0.856	0.830	0.984	1.284	0.929	0.942	17.16
69)	T	1,2-dichlorobenzene	0.660	0.706	0.690	0.791	1.005	0.786	0.766	15.14
70)	T	n-butylbenzene		2.178	2.122	2.403	3.225	2.155	2.402	17.40
71)	T	1,2-dibromo-3-chlor	0.027	0.030	0.026	0.031	0.035	0.032	0.030	9.94
72)	T	1,2,4-trichlorobenz	0.139	0.160	0.136	0.162	0.239	0.170	0.165	21.26
73)	T	hexachlorobutadiene	0.153	0.175	0.174	0.155	0.283	0.137	0.179	26.76
74)	T	naphthalene	0.114		0.102	0.116	0.184	0.143	0.129	23.33
75)	T	trans-1,4-Dichloro-	0.066	0.071	0.065	0.075	0.086	0.081	0.073	10.59
76)	T	1,2,3-trichlorobenz	0.043		0.045	0.045	0.095	0.054	0.054	36.81
77)	T	MTBE	1.355	1.318	1.163	1.290	1.399	1.362	1.296	6.97
78)	T	DIPE	2.657	2.654	2.419	2.635	2.849	2.580	2.608	5.45

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\JAN-OCT2005\1101105\1011108.D Vial: 8
Acq On : 11 Oct 2005 12:24 pm Operator: JTF
Sample : vstd5 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Nov 8 15:04 2005 Quant Results File: 8260SSC.RES

Quant Method : D:\HPCHEM\1\JAN-OCT2005\1101105\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) fluorobenzene	8.79	96	4759804	50.00 ppb		0.01
39) bromochloropropane	11.99	79	390728	50.00 ppb		0.00
53) chlorobenzene-d5	13.82	117	2252782	50.00 ppb		0.00
System Monitoring Compounds						
23) 1,2-dichloroethane-d4	8.22	65	411991	45.15 ppb		0.00
Spiked Amount 50.000			Recovery	= 90.30%		
33) toluene-d8	11.38	98	2760002	47.96 ppb		0.00
Spiked Amount 50.000			Recovery	= 95.92%		
49) 4-bromofluorobenzene	15.89	95	1127941	48.43 ppb		0.00
Spiked Amount 50.000			Recovery	= 96.86%		
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.03	85	213539	6.16 ppb		99
3) chloromethane	2.24	50	262480	5.95 ppb		91
4) vinyl chloride	2.38	62	312233	5.98 ppb		95
5) bromomethane	2.80	94	89390	Below Cal		80
8) acrolein	3.90	56	156112	43.35 ppb		95
9) 1,1-dichloroethene	4.07	96	154172	4.77 ppb		97
10) acetone	4.13	43	74444	3.58 ppb	#	87
11) methylene chloride	4.86	84	120212	4.07 ppb	#	89
12) trans-1,2-dichloroethene	5.30	96	168426	4.53 ppb		96
13) acrylonitrile	5.22	53	266588	39.85 ppb		99
14) 1,1-dichloroethane	5.97	63	304185	4.41 ppb		98
15) 2,2-dichloropropane	6.92	77	205089	4.68 ppb		99
16) cis-1,2-dichloroethene	6.92	96	159465	4.42 ppb		91
17) 2-butanone	6.97	43	79846	2.89 ppb	#	88
18) bromochloromethane	7.29	128	46075	4.20 ppb		94
19) chloroform	7.44	83	207985	4.32 ppb		99
20) 1,1,1-trichloroethane	7.73	97	211190	4.71 ppb		93
21) carbon tetrachloride	8.00	117	151265	4.75 ppb		91
22) 1,1-dichloropropene	8.01	75	212000	4.53 ppb		95
24) benzene	8.33	78	703832	5.02 ppb	#	79
25) 1,2-dichloroethane	8.33	62	113331	3.89 ppb		98
26) trichloroethene	9.38	95	161674	4.48 ppb		97
27) 1,2-dichloropropane	9.72	63	141927	4.01 ppb	#	99
28) dibromomethane	9.91	93	44553	3.62 ppb		91
29) bromodichloromethane	10.18	83	116871	3.87 ppb		98
30) 2-chloroethyl vinyl ether	10.70	106	61022	7.61 ppb		98
31) cis-1,3-dichloropropene	10.92	75	148496	3.68 ppb		100
32) 4-methyl-2-pentanone	11.19	43	143938	2.95 ppb	#	90
34) toluene	11.49	92	508983	4.46 ppb	#	38
35) Iodomethane	4.31	142	31067	10.27 ppb		91
36) trans-1,3-dichloropropene	11.86	75	108054	3.64 ppb		97
37) Vinyl acetate	6.09	86	34411	Below Cal	#	52
38) Carbon disulfide	4.40	76	540168	4.80 ppb		100
40) 1,1,2-trichloroethane	12.15	83	53109	4.06 ppb		97
41) tetrachloroethene	12.43	166	144666	1.19 ppb		94
42) 1,3-dichloropropane	12.44	76	116241	4.09 ppb		100
43) 2-hexanone	12.60	43	105489	3.10 ppb		92
44) dibromochloromethane	12.81	129	61941	4.04 ppb		98
45) 1,2-dibromoethane	13.00	107	51459	3.77 ppb	#	92
46) chlorobenzene	13.87	112	310607	4.74 ppb		93
47) 1,1,1,2-tetrachloroethane	14.01	131	90044	0.31 ppb		93
48) bromoform	15.29	173	30276	3.44 ppb		88
50) bromobenzene	16.15	156	92067	Below Cal		93

(#) = qualifier out of range (m) = manual integration
1011108.D 8260SSC.M Tue Nov 08 15:04:28 2005

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\JAN-OCT2005\1101105\1011108.D Vial: 8
Acq On : 11 Oct 2005 12:24 pm Operator: JTF
Sample : vstd5 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Nov 8 15:04 2005 Quant Results File: 8260SSC.RES

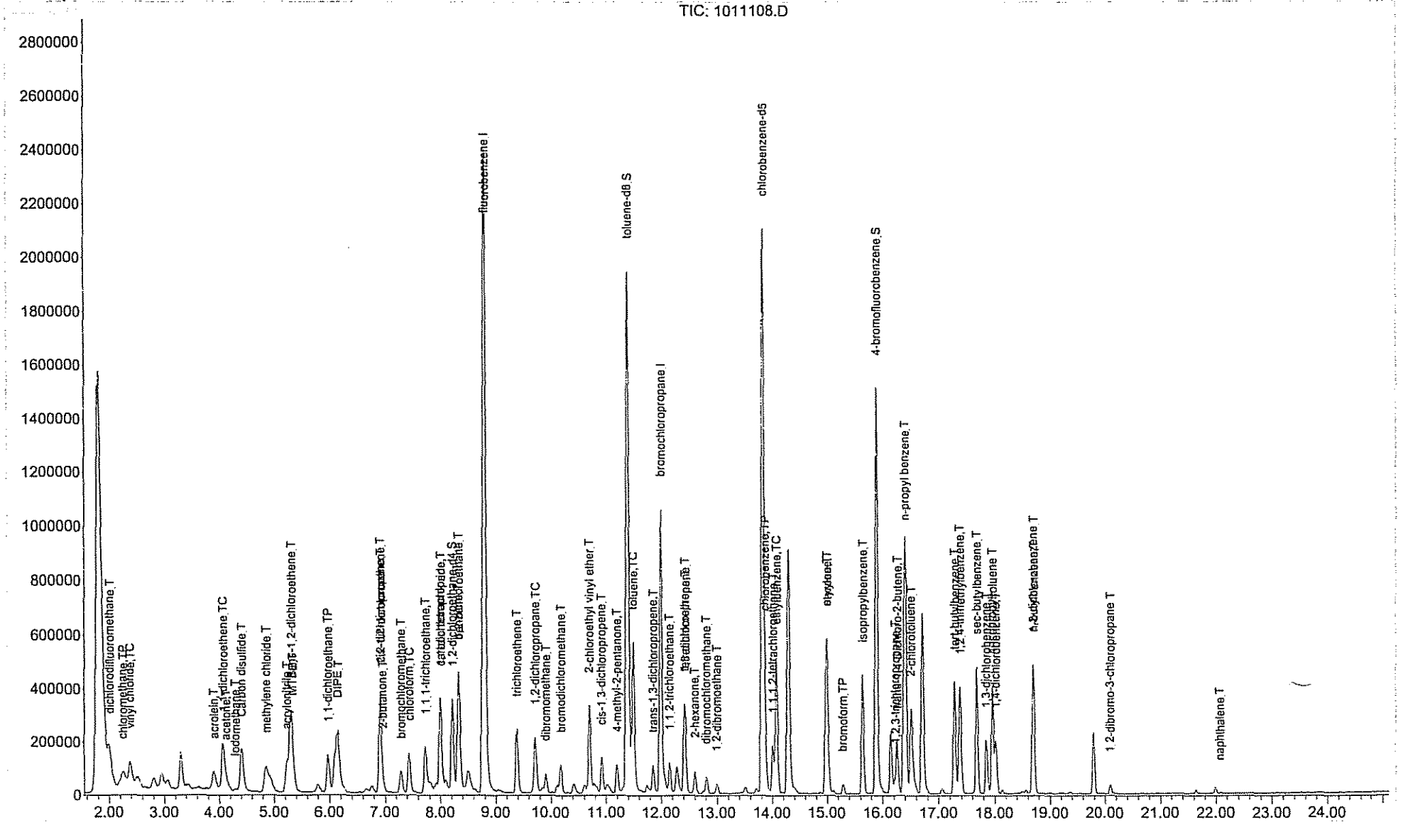
Quant Method : D:\HPCHEM\1\JAN-OCT2005\1101105\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
51)	1,1,2,2-tetrachloroethane	16.16	83	54536	Below Cal		99
52)	1,2,3-trichloropropane	16.21	110	14972	3.75 ppb	#	41
54)	ethylbenzene	14.08	91	763430	3.47 ppb	#	77
55)	m/p-xylene	14.29	106	572145	Below Cal	#	100
56)	styrene	15.00	104	282003	3.97 ppb		100
57)	o-xylene	14.98	106	235085	4.19 ppb		74
58)	isopropylbenzene	15.64	105	581581	3.60 ppb	#	88
59)	n-propyl benzene	16.38	91	798266	2.25 ppb	#	81
60)	2-chlorotoluene	16.52	126	106461	0.89 ppb		96
61)	4-chlorotoluene	16.71	91	434027	Below Cal		96
62)	1,3,5-trimethylbenzene	16.71	105	456022	Below Cal		94
63)	tert-butylbenzene	17.29	119	360013	0.85 ppb		83
64)	1,2,4-trimethylbenzene	17.38	105	476575	3.26 ppb	#	75
65)	sec-butylbenzene	17.68	105	621326	3.21 ppb	#	72
66)	1,3-dichlorobenzene	17.86	146	175401	1.55 ppb		98
67)	4-isopropyltoluene	17.96	119	415125	3.11 ppb	#	84
68)	1,4-dichlorobenzene	18.03	146	165296	1.19 ppb		96
69)	1,2-dichlorobenzene	18.68	146	127695	0.30 ppb		93
70)	n-butylbenzene	18.70	91	422755	3.14 ppb	#	84
71)	1,2-dibromo-3-chloropropan	20.09	75	17612	13.02 ppb		93
72)	1,2,4-trichlorobenzene	21.65	180	10895	Below Cal		93
73)	hexachlorobutadiene	21.99	225	12970	Below Cal		95
74)	naphthalene	22.08	128	6596	0.52 ppb	#	73
75)	trans-1,4-Dichloro-2-buten	16.26	89	48551	14.67 ppb		89
77)	MTBE	5.34	73	212076	3.63 ppb	#	89
78)	DIPE	6.15	45	485331	4.13 ppb		93

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\JAN-OCT2005\1101105\1011108.D Vial: 8
Acq On : 11 Oct 2005 12:24 pm Operator: JTF
Sample : vstd5 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Nov 8 15:04 2005 Quant Results File: 8260SSC.RES

Method : D:\HPCHEM\1\JAN-OCT2005\1101105\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration



1011108.D 8260SSC.M Tue Nov 08 15:04:31 2005 Page 3

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\JAN-OCT2005\1101105\1011109.D Vial: 9
Acq On : 11 Oct 2005 12:55 pm Operator: JTF
Sample : vstd10 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Nov 8 15:04 2005 Quant Results File: 8260SSC.RES

Quant Method : D:\HPCHEM\1\JAN-OCT2005\1101105\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) fluorobenzene	8.79	96	4834389	50.00	ppb		0.01
39) bromochloropropane	11.99	79	415424	50.00	ppb		0.00
53) chlorobenzene-d5	13.82	117	2332185	50.00	ppb		0.00
System Monitoring Compounds							
23) 1,2-dichloroethane-d4	8.21	65	450706	48.63	ppb		0.00
Spiked Amount 50.000			Recovery = 97.26%				
33) toluene-d8	11.38	98	2908080	49.75	ppb		0.00
Spiked Amount 50.000			Recovery = 99.50%				
49) 4-bromofluorobenzene	15.90	95	1213163	48.99	ppb		0.00
Spiked Amount 50.000			Recovery = 97.98%				
Target Compounds							Qvalue
2) dichlorodifluoromethane	2.01	85	394864	11.22	ppb		99
3) chloromethane	2.25	50	467103	10.43	ppb		97
4) vinyl chloride	2.38	62	571113	10.77	ppb		97
5) bromomethane	2.80	94	217856	10.34	ppb		89
6) chloroethane	2.94	64	289752	8.18	ppb		95
8) acrolein	3.90	56	300364	82.11	ppb		92
9) 1,1-dichloroethene	4.07	96	379814	11.57	ppb		98
10) acetone	4.14	43	172604	8.64	ppb		93
11) methylene chloride	4.85	84	305580	10.19	ppb		92
12) trans-1,2-dichloroethene	5.30	96	420320	11.12	ppb		94
13) acrylonitrile	5.23	53	520219	76.56	ppb		100
14) 1,1-dichloroethane	5.97	63	742665	10.60	ppb		98
15) 2,2-dichloropropane	6.92	77	512964	11.52	ppb		99
16) cis-1,2-dichloroethene	6.91	96	392454	10.70	ppb		92
17) 2-butanone	6.95	43	217015	7.74	ppb		96
18) bromochloromethane	7.28	128	114451	10.28	ppb		96
19) chloroform	7.44	83	526809	10.78	ppb		97
20) 1,1,1-trichloroethane	7.73	97	529726	11.63	ppb		99
21) carbon tetrachloride	8.01	117	365044	11.30	ppb		94
22) 1,1-dichloropropene	8.01	75	534130	11.23	ppb		98
24) benzene	8.33	78	1585447	11.12	ppb	#	83
25) 1,2-dichloroethane	8.33	62	285909	9.66	ppb		98
26) trichloroethene	9.39	95	392075	10.70	ppb		98
27) 1,2-dichloropropane	9.72	63	363850	10.13	ppb		96
28) dibromomethane	9.91	93	119313	9.56	ppb		98
29) bromodichloromethane	10.18	83	312528	10.19	ppb	#	99
30) 2-chloroethyl vinyl ether	10.70	106	140611	10.46	ppb		94
31) cis-1,3-dichloropropene	10.92	75	388062	9.47	ppb		96
32) 4-methyl-2-pentanone	11.20	43	362797	7.32	ppb		95
34) toluene	11.49	92	1219377	10.53	ppb	#	38
35) Iodomethane	4.30	142	105022	13.65	ppb	#	88
36) trans-1,3-dichloropropene	11.86	75	280563	9.30	ppb		97
37) Vinyl acetate	6.08	86	90078	1.65	ppb		68
38) Carbon disulfide	4.41	76	1284887	11.23	ppb		99
40) 1,1,2-trichloroethane	12.15	83	135626	9.74	ppb		96
41) tetrachloroethene	12.42	166	367719	9.52	ppb		98
42) 1,3-dichloropropane	12.44	76	302866	10.02	ppb		98
43) 2-hexanone	12.60	43	293026	8.10	ppb		93
44) dibromochloromethane	12.82	129	160606	9.85	ppb		95
45) 1,2-dibromoethane	13.00	107	135874	9.36	ppb	#	92
46) chlorobenzene	13.86	112	761263	10.93	ppb		100
47) 1,1,1,2-tetrachloroethane	14.01	131	224162	7.71	ppb		96
48) bromoform	15.29	173	87708	9.38	ppb		94

(#) = qualifier out of range (m) = manual integration
1011109.D 8260SSC.M Tue Nov 08 15:04:35 2005

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\JAN-OCT2005\1101105\1011109.D Vial: 9
Acq On : 11 Oct 2005 12:55 pm Operator: JTF
Sample : vstd10 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Nov 8 15:04 2005 Quant Results File: 8260SSC.RES

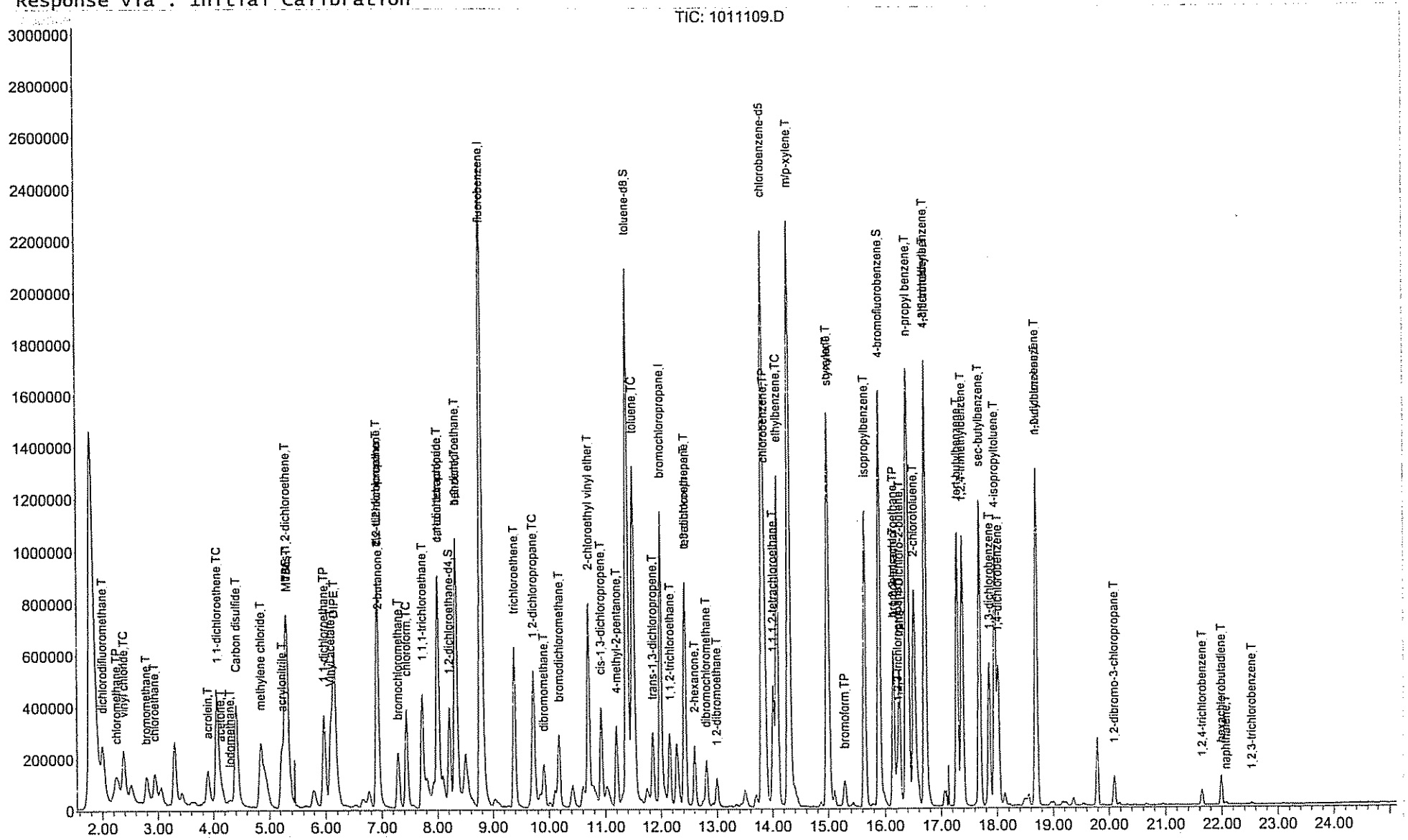
Quant Method : D:\HPCHEM\1\JAN-OCT2005\1101105\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
50)	bromobenzene	16.15	156	234642	6.77	ppb		100
51)	1,1,2,2-tetrachloroethane	16.16	83	156204	5.46	ppb		90
52)	1,2,3-trichloropropane	16.22	110	39416	9.30	ppb	#	81
54)	ethylbenzene	14.08	91	1885729	10.27	ppb	#	78
55)	m/p-xylene	14.30	106	1410576	14.64	ppb	#	100
56)	styrene	15.00	104	733904	9.97	ppb		100
57)	o-xylene	14.98	106	598703	10.31	ppb		75
58)	isopropylbenzene	15.64	105	1496551	10.40	ppb	#	88
59)	n-propyl benzene	16.38	91	1994915	9.30	ppb	#	80
60)	2-chlorotoluene	16.51	126	280548	8.45	ppb		98
61)	4-chlorotoluene	16.71	91	1054567	6.98	ppb		98
62)	1,3,5-trimethylbenzene	16.71	105	1137071	6.99	ppb		95
63)	tert-butylbenzene	17.29	119	912638	8.17	ppb		86
64)	1,2,4-trimethylbenzene	17.38	105	1201482	9.47	ppb	#	75
65)	sec-butylbenzene	17.68	105	1573972	9.85	ppb	#	70
66)	1,3-dichlorobenzene	17.86	146	454343	8.27	ppb		99
67)	4-isopropyltoluene	17.96	119	1090660	9.97	ppb	#	82
68)	1,4-dichlorobenzene	18.02	146	448710	8.50	ppb		97
69)	1,2-dichlorobenzene	18.68	146	340768	7.11	ppb		97
70)	n-butylbenzene	18.70	91	1129850	9.91	ppb	#	87
71)	1,2-dibromo-3-chloropropan	20.10	75	55006	39.29	ppb		92
72)	1,2,4-trichlorobenzene	21.65	180	42701	2.71	ppb		100
73)	hexachlorobutadiene	21.99	225	50116	2.32	ppb		91
74)	naphthalene	22.08	128	23087	3.60	ppb	#	73
75)	trans-1,4-Dichloro-2-buten	16.26	89	135202	39.47	ppb	#	79
76)	1,2,3-trichlorobenzene	22.53	180	7443	0.50	ppb	#	69
77)	MTBE	5.33	73	549840	9.10	ppb	#	86
78)	DIPE	6.15	45	1240723	10.20	ppb		98

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\JAN-OCT2005\1101105\1011109.D Vial: 9
Acq On : 11 Oct 2005 12:55 pm Operator: JTF
Sample : vstd10 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Nov 8 15:04 2005 Quant Results File: 8260SSC.RES

Method : D:\HPCHEM\1\JAN-OCT2005\1101105\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration



1011109.D 8260SSC.M Tue Nov 08 15:04:39 2005 Page 3

Data File : D:\HPCHEM\1\JAN-OCT2005\1101105\1011110.D Vial: 10
Acq On : 11 Oct 2005 1:34 pm Operator: JTF
Sample : vstd5 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Nov 8 15:04 2005 Quant Results File: 8260SSC.RES

Quant Method : D:\HPCHEM\1\JAN-OCT2005\1101105\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) fluorobenzene	8.79	96	5586562	50.00	ppb		0.02
39) bromochloropropane	12.00	79	510414	50.00	ppb		0.00
53) chlorobenzene-d5	13.82	117	2866047	50.00	ppb		0.00
System Monitoring Compounds							
23) 1,2-dichloroethane-d4	8.22	65	564729	52.73	ppb		0.00
Spiked Amount 50.000			Recovery	=	105.46%		
33) toluene-d8	11.38	98	3393052	50.24	ppb		0.00
Spiked Amount 50.000			Recovery	=	100.48%		
49) 4-bromofluorobenzene	15.90	95	1544139	50.75	ppb		0.00
Spiked Amount 50.000			Recovery	=	101.50%		
Target Compounds							Qvalue
2) dichlorodifluoromethane	2.02	85	197592	4.86	ppb		93
3) chloromethane	2.27	50	249364	4.82	ppb		92
4) vinyl chloride	2.39	62	287856	4.70	ppb		98
5) bromomethane	2.81	94	117266	0.06	ppb		95
6) chloroethane	2.95	64	151919	Below	Cal		93
8) acrolein	3.91	56	222040	52.53	ppb		96
9) 1,1-dichloroethene	4.07	96	228842	6.03	ppb		99
10) acetone	4.15	43	151606	6.48	ppb		91
11) methylene chloride	4.85	84	210870	6.09	ppb		89
12) trans-1,2-dichloroethene	5.31	96	265060	6.07	ppb		98
13) acrylonitrile	5.24	53	370394	47.17	ppb		98
14) 1,1-dichloroethane	5.98	63	471892	5.83	ppb	#	95
15) 2,2-dichloropropane	6.92	77	326419	6.35	ppb		95
16) cis-1,2-dichloroethene	6.91	96	249988	5.90	ppb		98
17) 2-butanone	6.96	43	189349	5.85	ppb		94
18) bromochloromethane	7.30	128	73260	5.70	ppb		97
19) chloroform	7.44	83	332351	5.89	ppb		96
20) 1,1,1-trichloroethane	7.74	97	316933	6.02	ppb		97
21) carbon tetrachloride	8.00	117	229803	6.15	ppb		99
22) 1,1-dichloropropene	8.01	75	323519	5.89	ppb		99
24) benzene	8.34	78	1053220	6.39	ppb	#	84
25) 1,2-dichloroethane	8.34	62	199076	5.82	ppb		99
26) trichloroethene	9.38	95	248470	5.87	ppb		97
27) 1,2-dichloropropane	9.73	63	238506	5.75	ppb	#	87
28) dibromomethane	9.90	93	87375	6.06	ppb		94
29) bromodichloromethane	10.19	83	211283	5.96	ppb		91
30) 2-chloroethyl vinyl ether	10.70	106	93332	8.29	ppb		95
31) cis-1,3-dichloropropene	10.93	75	268986	5.68	ppb		97
32) 4-methyl-2-pentanone	11.19	43	331442	5.79	ppb	#	92
34) toluene	11.49	92	818845	6.12	ppb	#	40
35) Iodomethane	4.30	142	48103	10.74	ppb		95
36) trans-1,3-dichloropropene	11.86	75	201091	5.77	ppb		97
37) Vinyl acetate	6.10	86	75253	Below	Cal		100
38) Carbon disulfide	4.41	76	797336	6.03	ppb		99
40) 1,1,2-trichloroethane	12.16	83	98143	5.74	ppb		93
41) tetrachloroethene	12.42	166	249817	3.12	ppb		97
42) 1,3-dichloropropane	12.43	76	217139	5.85	ppb		97
43) 2-hexanone	12.60	43	261531	5.89	ppb		95
44) dibromochloromethane	12.82	129	121415	6.06	ppb		89
45) 1,2-dibromoethane	13.00	107	104547	5.86	ppb	#	94
46) chlorobenzene	13.87	112	558325	6.52	ppb		96
47) 1,1,1,2-tetrachloroethane	14.01	131	169043	2.72	ppb		93
48) bromoform	15.29	173	70027	6.09	ppb		99

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\JAN-OCT2005\1101105\1011110.D Vial: 10
Acq On : 11 Oct 2005 1:34 pm Operator: JTF
Sample : vstd5 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Nov 8 15:04 2005 Quant Results File: 8260SSC.RES

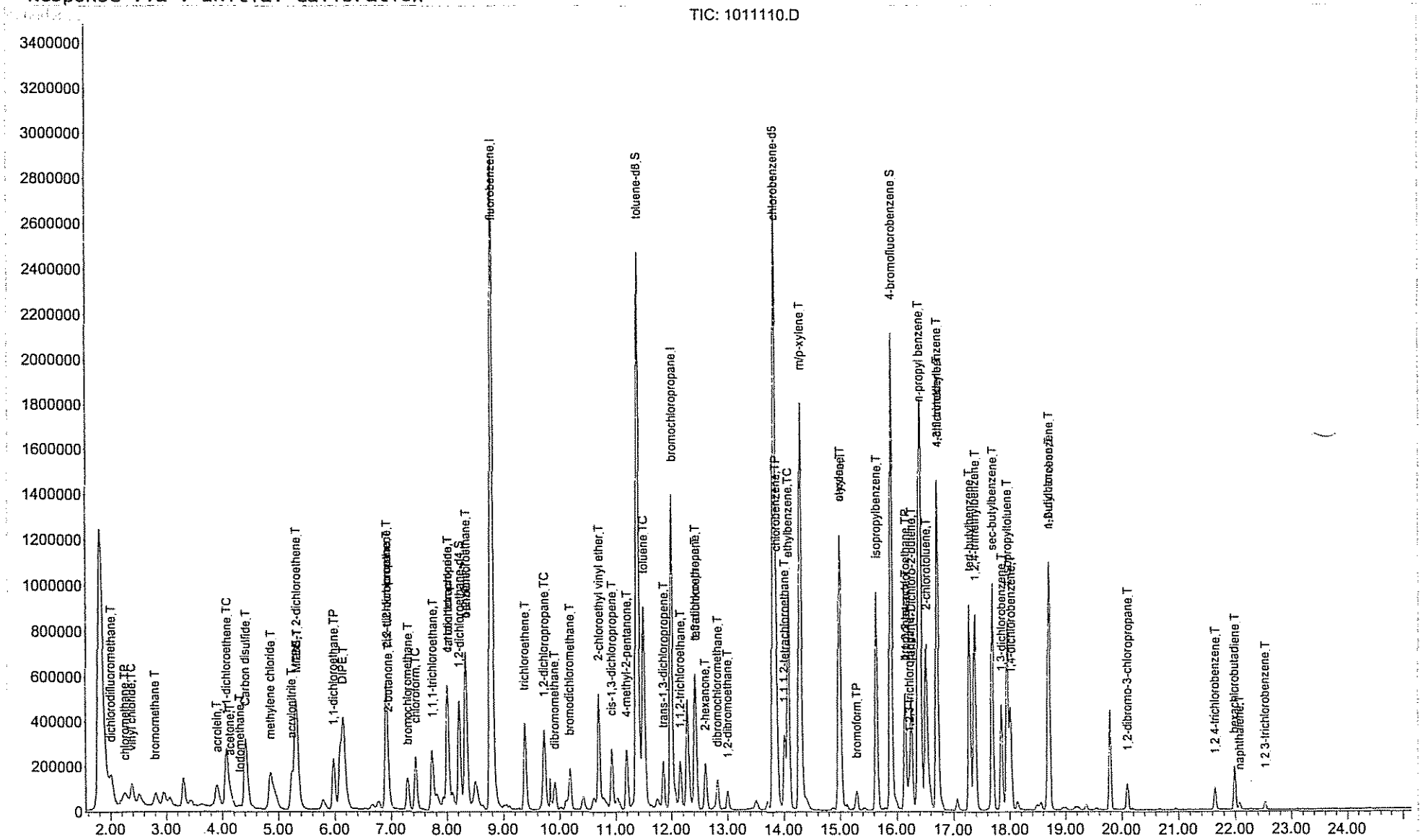
Quant Method : D:\HPCHEM\1\JAN-OCT2005\1101105\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
50) bromobenzene	16.15	156	192970	2.68 ppb		95
51) 1,1,2,2-tetrachloroethane	16.16	83	135364	2.19 ppb		94
52) 1,2,3-trichloropropane	16.22	110	31985	6.14 ppb	#	51
54) ethylbenzene	14.09	91	1435587	5.81 ppb	#	78
55) m/p-xylene	14.29	106	1077661	4.99 ppb	#	100
56) styrene	15.00	104	572812	6.33 ppb		100
57) o-xylene	14.98	106	462437	6.48 ppb	#	72
58) isopropylbenzene	15.64	105	1200369	6.45 ppb	#	89
59) n-propyl benzene	16.38	91	1677311	5.50 ppb	#	80
60) 2-chlorotoluene	16.52	126	229206	4.27 ppb		99
61) 4-chlorotoluene	16.71	91	893568	3.19 ppb		99
62) 1,3,5-trimethylbenzene	16.71	105	951639	3.05 ppb		95
63) tert-butylbenzene	17.28	119	749266	4.06 ppb		89
64) 1,2,4-trimethylbenzene	17.38	105	1026567	6.26 ppb	#	74
65) sec-butylbenzene	17.69	105	1324456	6.31 ppb	#	71
66) 1,3-dichlorobenzene	17.85	146	386840	4.83 ppb		99
67) 4-isopropyltoluene	17.96	119	896131	6.22 ppb	#	83
68) 1,4-dichlorobenzene	18.02	146	368064	4.57 ppb		95
69) 1,2-dichlorobenzene	18.69	146	288040	3.64 ppb		100
70) n-butylbenzene	18.71	91	924420	6.22 ppb	#	84
71) 1,2-dibromo-3-chloropropan	20.10	75	50074	29.10 ppb		92
72) 1,2,4-trichlorobenzene	21.64	180	68428	4.71 ppb		94
73) hexachlorobutadiene	22.00	225	81007	4.51 ppb		97
74) naphthalene	22.08	128	52632	7.35 ppb	#	92
75) trans-1,4-Dichloro-2-buten	16.26	89	123714	29.39 ppb		88
76) 1,2,3-trichlorobenzene	22.53	180	27139	7.84 ppb		94
77) MTBE	5.34	73	401031	5.40 ppb		91
78) DIPE	6.15	45	816670	5.46 ppb		97

(#) = qualifier out of range (m) = manual integration
1011110.D 8260SSC.M Tue Nov 08 15:04:44 2005

Data File : D:\HPCHEM\1\JAN-OCT2005\1101105\1011110.D Vial: 10
Acq On : 11 Oct 2005 1:34 pm Operator: JTF
Sample : vstd5 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Nov 8 15:04 2005 Quant Results File: 8260SSC.RES

Method : D:\HPCHEM\1\JAN-OCT2005\1101105\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration



1011110.D 8260SSC.M Tue Nov 08 15:04:47 2005 Page 3

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\JAN-OCT2005\1101105\1011111.D Vial: 11
Acq On : 11 Oct 2005 2:06 pm Operator: JTF
Sample : vstd10 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Nov 8 15:04 2005 Quant Results File: 8260SSC.RES

Quant Method : D:\HPCHEM\1\JAN-OCT2005\1101105\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) fluorobenzene	8.79	96	5335438	50.00	ppb	0.01
39) bromochloropropane	12.00	79	499428	50.00	ppb	0.00
53) chlorobenzene-d5	13.82	117	2724364	50.00	ppb	0.00
System Monitoring Compounds						
23) 1,2-dichloroethane-d4	8.22	65	564872	55.22	ppb	0.00
Spiked Amount 50.000			Recovery	=	110.44%	
33) toluene-d8	11.39	98	3185545	49.38	ppb	0.00
Spiked Amount 50.000			Recovery	=	98.76%	
49) 4-bromofluorobenzene	15.89	95	1472065	49.45	ppb	0.00
Spiked Amount 50.000			Recovery	=	98.90%	

Target Compounds							Qvalue
2) dichlorodifluoromethane	2.01	85	368467	9.49	ppb		94
3) chloromethane	2.25	50	452808	9.16	ppb		98
4) vinyl chloride	2.37	62	528021	9.03	ppb		98
5) bromomethane	2.79	94	200789	7.17	ppb		81
6) chloroethane	2.94	64	278078	5.59	ppb		97
7) trichlorofluoromethane	3.30	101	413239	9.89	ppb		97
8) acrolein	3.90	56	429971	106.51	ppb		91
9) 1,1-dichloroethene	4.07	96	363462	10.03	ppb		92
10) acetone	4.13	43	274616	12.61	ppb		92
11) methylene chloride	4.85	84	344436	10.41	ppb		91
12) trans-1,2-dichloroethene	5.30	96	417351	10.01	ppb		95
13) acrylonitrile	5.23	53	745109	99.35	ppb		99
14) 1,1-dichloroethane	5.97	63	776391	10.04	ppb		97
15) 2,2-dichloropropane	6.92	77	510179	10.38	ppb		98
16) cis-1,2-dichloroethene	6.92	96	409740	10.12	ppb		92
17) 2-butanone	6.95	43	364484	11.78	ppb		94
18) bromochloromethane	7.29	128	134203	10.93	ppb		90
19) chloroform	7.44	83	562063	10.42	ppb		97
20) 1,1,1-trichloroethane	7.73	97	515791	10.26	ppb		98
21) carbon tetrachloride	8.01	117	360189	10.10	ppb		98
22) 1,1-dichloropropene	8.00	75	519281	9.90	ppb		98
24) benzene	8.34	78	1627817	10.35	ppb	#	86
25) 1,2-dichloroethane	8.35	62	353414	10.82	ppb		96
26) trichloroethene	9.38	95	390869	9.67	ppb		95
27) 1,2-dichloropropane	9.72	63	393876	9.93	ppb		95
28) dibromomethane	9.91	93	141089	10.24	ppb	#	87
29) bromodichloromethane	10.18	83	350115	10.35	ppb		99
30) 2-chloroethyl vinyl ether	10.70	106	208158	12.20	ppb		91
31) cis-1,3-dichloropropene	10.92	75	455937	10.09	ppb		97
32) 4-methyl-2-pentanone	11.20	43	608931	11.14	ppb		99
34) toluene	11.49	92	1266825	9.91	ppb	#	40
35) Iodomethane	4.31	142	84538	12.34	ppb		97
36) trans-1,3-dichloropropene	11.86	75	349986	10.51	ppb		99
37) Vinyl acetate	6.09	86	144898	18.85	ppb		86
38) Carbon disulfide	4.40	76	1253602	9.93	ppb		99
40) 1,1,2-trichloroethane	12.15	83	174448	10.42	ppb		97
41) tetrachloroethene	12.42	166	366671	7.08	ppb		93
42) 1,3-dichloropropane	12.43	76	388172	10.69	ppb		98
43) 2-hexanone	12.61	43	480754	11.06	ppb		97
44) dibromochloromethane	12.82	129	203237	10.37	ppb		99
45) 1,2-dibromoethane	13.00	107	180272	10.33	ppb		97
46) chlorobenzene	13.87	112	820025	9.79	ppb		98
47) 1,1,1,2-tetrachloroethane	14.01	131	246776	6.62	ppb		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\JAN-OCT2005\1101105\1011111.D Vial: 11
Acq On : 11 Oct 2005 2:06 pm Operator: JTF
Sample : vstd10 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Nov 8 15:04 2005 Quant Results File: 8260SSC.RES

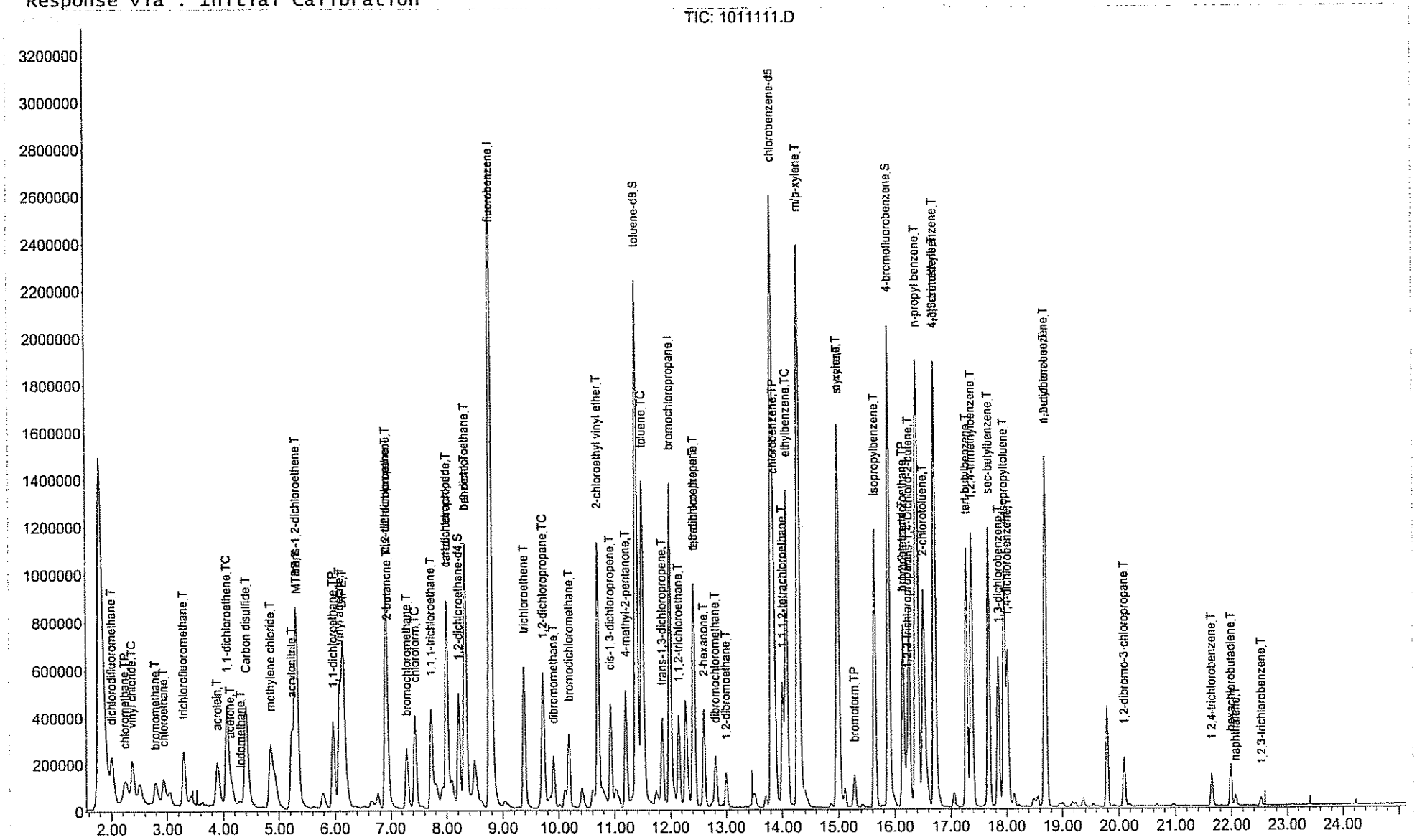
Quant Method : D:\HPCHEM\1\JAN-OCT2005\1101105\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
48)	bromoform	15.29	173	121729	10.83 ppb		91
50)	bromobenzene	16.15	156	278145	6.60 ppb		91
51)	1,1,2,2-tetrachloroethane	16.16	83	230817	8.00 ppb	#	95
52)	1,2,3-trichloropropane	16.23	110	56598	11.10 ppb	#	71
54)	ethylbenzene	14.08	91	1947324	8.91 ppb	#	80
55)	m/p-xylene	14.29	106	1475267	11.97 ppb	#	100
56)	styrene	15.01	104	813821	9.46 ppb		100
57)	o-xylene	14.99	106	638798	9.41 ppb		76
58)	isopropylbenzene	15.65	105	1502497	8.80 ppb	#	88
59)	n-propyl benzene	16.38	91	2063850	7.93 ppb	#	81
60)	2-chlorotoluene	16.51	126	297647	7.31 ppb		100
61)	4-chlorotoluene	16.71	91	1180195	6.47 ppb		99
62)	1,3,5-trimethylbenzene	16.71	105	1203069	5.82 ppb		93
63)	tert-butylbenzene	17.28	119	905573	6.30 ppb		89
64)	1,2,4-trimethylbenzene	17.38	105	1361053	9.15 ppb	#	74
65)	sec-butylbenzene	17.68	105	1584251	8.30 ppb	#	71
66)	1,3-dichlorobenzene	17.86	146	532222	8.30 ppb		98
67)	4-isopropyltoluene	17.96	119	1115945	8.57 ppb	#	84
68)	1,4-dichlorobenzene	18.02	146	506114	8.09 ppb		98
69)	1,2-dichlorobenzene	18.69	146	428539	7.96 ppb		95
70)	n-butylbenzene	18.71	91	1174446	8.69 ppb	#	88
71)	1,2-dibromo-3-chloropropan	20.09	75	87364	53.42 ppb		98
72)	1,2,4-trichlorobenzene	21.64	180	92396	8.32 ppb		89
73)	hexachlorobutadiene	21.99	225	74731	4.24 ppb		96
74)	naphthalene	22.07	128	77992	11.89 ppb		96
75)	trans-1,4-Dichloro-2-buten	16.26	89	220143	55.02 ppb		92
76)	1,2,3-trichlorobenzene	22.53	180	29213	9.31 ppb		88
77)	MTBE	5.33	73	742074	10.51 ppb		94
78)	DIPE	6.15	45	1405668	9.89 ppb		97

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\JAN-OCT2005\1101105\1011111.D Vial: 11
Acq On : 11 Oct 2005 2:06 pm Operator: JTF
Sample : vstd10 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Nov 8 15:04 2005 Quant Results File: 8260SSC.RES

Method : D:\HPCHEM\1\JAN-OCT2005\1101105\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration



1011111.D 8260SSC.M Tue Nov 08 15:04:55 2005

Page 3

Quant Lab Report (Not Reviewed)

Data File : D:\HPCHEM\1\JAN-OCT2005\1101105\1011112.D Vial: 12
Acq On : 11 Oct 2005 2:37 pm Operator: JTF
Sample : vstd20 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Nov 8 15:04 2005 Quant Results File: 8260SSC.RES

Quant Method : D:\HPCHEM\1\JAN-OCT2005\1101105\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	8.78	96	5395856	50.00 ppb	0.00
39) bromochloropropane	12.00	79	480682	50.00 ppb	0.00
53) chlorobenzene-d5	13.82	117	2690145	50.00 ppb	0.00
System Monitoring Compounds					
23) 1,2-dichloroethane-d4	8.21	65	509929	49.29 ppb	0.00
Spiked Amount 50.000			Recovery =	98.58%	
33) toluene-d8	11.38	98	3195806	48.99 ppb	0.00
Spiked Amount 50.000			Recovery =	97.98%	
49) 4-bromofluorobenzene	15.90	95	1459513	50.94 ppb	0.00
Spiked Amount 50.000			Recovery =	101.88%	
Target Compounds					Qvalue
2) dichlorodifluoromethane	2.00	85	833660	21.23 ppb	97
3) chloromethane	2.25	50	993389	19.86 ppb	98
4) vinyl chloride	2.38	62	1160033	19.61 ppb	97
5) bromomethane	2.78	94	512405	31.66 ppb	90
6) chloroethane	2.94	64	630382	27.00 ppb	92
7) trichlorofluoromethane	3.29	101	907749	21.49 ppb	98
8) acrolein	3.90	56	919321	225.17 ppb	98
9) 1,1-dichloroethene	4.07	96	760184	20.74 ppb	98
10) acetone	4.14	43	465058	21.36 ppb	94
11) methylene chloride	4.85	84	684285	20.45 ppb	93
12) trans-1,2-dichloroethene	5.30	96	867425	20.56 ppb	99
13) acrylonitrile	5.23	53	1583919	208.84 ppb	99
14) 1,1-dichloroethane	5.97	63	1578735	20.19 ppb	96
15) 2,2-dichloropropane	6.91	77	1070390	21.54 ppb	99
16) cis-1,2-dichloroethene	6.91	96	833676	20.36 ppb	99
17) 2-butanone	6.94	43	600872	19.21 ppb	98
18) bromochloromethane	7.29	128	261796	21.07 ppb	86
19) chloroform	7.43	83	1140540	20.91 ppb	99
20) 1,1,1-trichloroethane	7.73	97	1091102	21.47 ppb	97
21) carbon tetrachloride	8.00	117	782386	21.69 ppb	100
22) 1,1-dichloropropene	8.00	75	1096319	20.66 ppb	97
24) benzene	8.33	78	3255681	20.46 ppb #	86
25) 1,2-dichloroethane	8.34	62	686981	20.80 ppb	99
26) trichloroethene	9.38	95	833304	20.38 ppb	97
27) 1,2-dichloropropane	9.73	63	800414	19.96 ppb	91
28) dibromomethane	9.90	93	280268	20.11 ppb	90
29) bromodichloromethane	10.18	83	715344	20.90 ppb	98
30) 2-chloroethyl vinyl ether	10.70	106	512353	22.01 ppb	95
31) cis-1,3-dichloropropene	10.93	75	939253	20.55 ppb	100
32) 4-methyl-2-pentanone	11.19	43	1045693	18.91 ppb	97
34) toluene	11.49	92	2650236	20.50 ppb #	42
35) Iodomethane	4.29	142	273741	20.10 ppb	99
36) trans-1,3-dichloropropene	11.85	75	679763	20.19 ppb	98
37) Vinyl acetate	6.09	86	256791	60.09 ppb	90
38) Carbon disulfide	4.40	76	2631068	20.61 ppb	100
40) 1,1,2-trichloroethane	12.16	83	338975	21.04 ppb	99
41) tetrachloroethene	12.42	166	757510	20.71 ppb	98
42) 1,3-dichloropropane	12.43	76	721266	20.63 ppb	99
43) 2-hexanone	12.60	43	856922	20.48 ppb	96
44) dibromochloromethane	12.82	129	402469	21.34 ppb	96
45) 1,2-dibromoethane	12.99	107	350049	20.84 ppb	97
46) chlorobenzene	13.87	112	1675260	20.79 ppb	97
47) 1,1,1,2-tetrachloroethane	14.02	131	502108	19.81 ppb	99

(#) = qualifier out of range (m) = manual integration
1011112.D 8260SSC.M Tue Nov 08 15:05:00 2005

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\JAN-OCT2005\1101105\1011112.D Vial: 12
Acq On : 11 Oct 2005 2:37 pm Operator: JTF
Sample : vstd20 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Nov 8 15:04 2005 Quant Results File: 8260SSC.RES

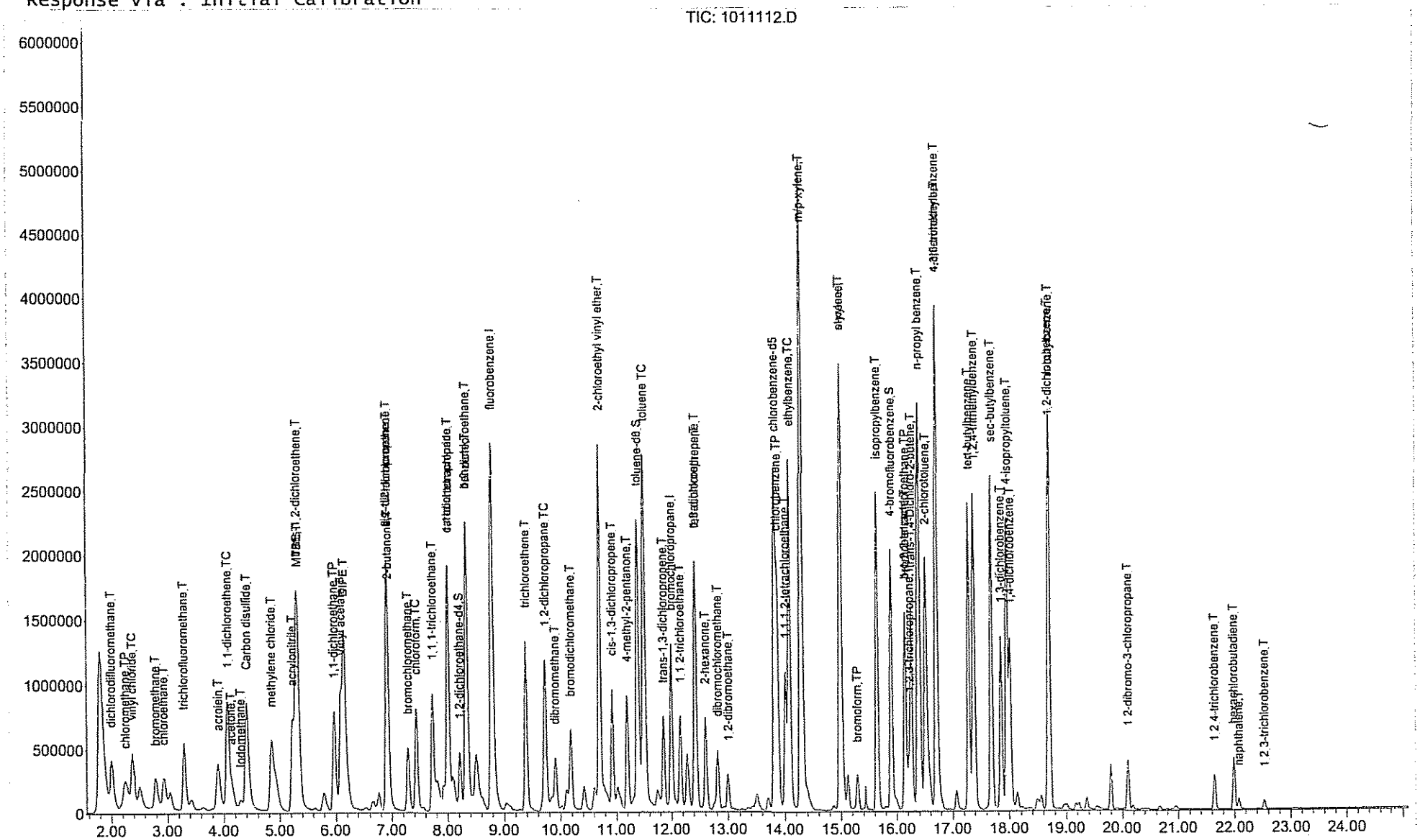
Quant Method : D:\HPCHEM\1\JAN-OCT2005\1101105\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
48)	bromoform	15.29	173	222400	20.55 ppb		94
50)	bromobenzene	16.15	156	552689	19.58 ppb		94
51)	1,1,2,2-tetrachloroethane	16.16	83	414662	19.83 ppb		98
52)	1,2,3-trichloropropane	16.22	110	100037	20.39 ppb	#	72
54)	ethylbenzene	14.09	91	4049411	20.37 ppb	#	79
55)	m/p-xylene	14.29	106	3112796	37.92 ppb	#	100
56)	styrene	15.00	104	1685878	19.85 ppb		100
57)	o-xylene	14.98	106	1346588	20.10 ppb		77
58)	isopropylbenzene	15.64	105	3202981	20.14 ppb	#	88
59)	n-propyl benzene	16.38	91	4412186	20.36 ppb	#	81
60)	2-chlorotoluene	16.52	126	595203	18.90 ppb		94
61)	4-chlorotoluene	16.71	91	2463349	19.51 ppb		98
62)	1,3,5-trimethylbenzene	16.71	105	2543046	18.59 ppb		94
63)	tert-butylbenzene	17.28	119	1932127	18.50 ppb		88
64)	1,2,4-trimethylbenzene	17.38	105	2832744	20.48 ppb	#	75
65)	sec-butylbenzene	17.69	105	3448322	19.94 ppb	#	71
66)	1,3-dichlorobenzene	17.85	146	1107518	20.75 ppb		97
67)	4-isopropyltoluene	17.96	119	2428412	20.50 ppb	#	82
68)	1,4-dichlorobenzene	18.02	146	1059271	20.86 ppb		98
69)	1,2-dichlorobenzene	18.68	146	850823	20.08 ppb		99
70)	n-butylbenzene	18.70	91	2585978	20.79 ppb	#	83
71)	1,2-dibromo-3-chloropropan	20.10	75	166000	102.79 ppb		92
72)	1,2,4-trichlorobenzene	21.64	180	174455	19.45 ppb		94
73)	hexachlorobutadiene	21.99	225	166458	15.38 ppb		99
74)	naphthalene	22.08	128	124321	19.68 ppb		98
75)	trans-1,4-Dichloro-2-buten	16.26	89	401796	101.70 ppb		88
76)	1,2,3-trichlorobenzene	22.53	180	48609	17.90 ppb		94
77)	MTBE	5.33	73	1387818	19.90 ppb	#	89
78)	DIPE	6.14	45	2835754	20.21 ppb		96

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\JAN-OCT2005\1101105\1011112.D Vial: 12
Acq On : 11 Oct 2005 2:37 pm Operator: JTF
Sample : vstd20 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Nov 8 15:04 2005 Quant Results File: 8260SSC.RES

Method : D:\HPCHEM\1\JAN-OCT2005\1101105\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration



1011112.D 8260SSC.M Tue Nov 08 15:05:03 2005 Page 3

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\JAN-OCT2005\1101105\1011113.D Vial: 13
Acq On : 11 Oct 2005 3:08 pm Operator: JTF
Sample : vstd50 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Nov 8 15:05 2005 Quant Results File: 8260SSC.RES

Quant Method : D:\HPCHEM\1\JAN-OCT2005\1101105\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) fluorobenzene	8.78	96	5520764	50.00	ppb		0.00
39) bromochloropropane	12.00	79	502942	50.00	ppb		0.00
53) chlorobenzene-d5	13.82	117	2788994	50.00	ppb		0.00
System Monitoring Compounds							
23) 1,2-dichloroethane-d4	8.22	65	524721	49.58	ppb		0.00
Spiked Amount 50.000			Recovery	=	99.16%		
33) toluene-d8	11.38	98	3357699	50.30	ppb		0.00
Spiked Amount 50.000			Recovery	=	100.60%		
49) 4-bromofluorobenzene	15.90	95	1519505	50.68	ppb		0.00
Spiked Amount 50.000			Recovery	=	101.36%		
Target Compounds							Qvalue
2) dichlorodifluoromethane	2.01	85	2104984	52.39	ppb		99
3) chloromethane	2.27	50	2552836	49.89	ppb		100
4) vinyl chloride	2.38	62	3084368	50.95	ppb		99
5) bromomethane	2.78	94	970734	66.20	ppb		100
6) chloroethane	2.93	64	1556563	81.63	ppb		99
7) trichlorofluoromethane	3.28	101	2304852	53.33	ppb		99
8) acrolein	3.90	56	1911835	457.68	ppb		100
9) 1,1-dichloroethene	4.06	96	1791787	47.78	ppb		97
10) acetone	4.15	43	1007925	45.66	ppb		100
11) methylene chloride	4.85	84	1550687	45.29	ppb		97
12) trans-1,2-dichloroethene	5.30	96	1991744	46.15	ppb		94
13) acrylonitrile	5.23	53	3560524	458.83	ppb		98
14) 1,1-dichloroethane	5.97	63	3733171	46.67	ppb		98
15) 2,2-dichloropropane	6.91	77	2372639	46.67	ppb		97
16) cis-1,2-dichloroethene	6.91	96	1917923	45.79	ppb		98
17) 2-butanone	6.95	43	1368633	42.77	ppb		99
18) bromochloromethane	7.29	128	607792	47.82	ppb		93
19) chloroform	7.43	83	2648933	47.47	ppb		99
20) 1,1,1-trichloroethane	7.73	97	2491127	47.91	ppb		97
21) carbon tetrachloride	8.00	117	1796301	48.68	ppb		98
22) 1,1-dichloropropene	8.00	75	2557798	47.10	ppb		99
24) benzene	8.33	78	7400213	45.46	ppb	#	84
25) 1,2-dichloroethane	8.34	62	1560250	46.16	ppb		98
26) trichloroethene	9.38	95	2007441	47.99	ppb		97
27) 1,2-dichloropropane	9.73	63	1881423	45.86	ppb		92
28) dibromomethane	9.90	93	643644	45.14	ppb		96
29) bromodichloromethane	10.18	83	1630472	46.57	ppb		99
30) 2-chloroethyl vinyl ether	10.70	106	1240043	44.74	ppb		95
31) cis-1,3-dichloropropene	10.93	75	2142878	45.82	ppb		97
32) 4-methyl-2-pentanone	11.19	43	2498429	44.16	ppb		98
34) toluene	11.50	92	6174040	46.67	ppb	#	34
35) Iodomethane	4.29	142	921845	45.93	ppb		99
36) trans-1,3-dichloropropene	11.85	75	1582035	45.93	ppb		100
37) Vinyl acetate	6.09	86	437393	123.93	ppb		94
38) Carbon disulfide	4.40	76	6072367	46.49	ppb		100
40) 1,1,2-trichloroethane	12.16	83	793319	47.06	ppb		98
41) tetrachloroethene	12.42	166	1767564	52.09	ppb		98
42) 1,3-dichloropropane	12.43	76	1665258	45.53	ppb		99
43) 2-hexanone	12.60	43	1966056	44.90	ppb		97
44) dibromochloromethane	12.82	129	938407	47.56	ppb		99
45) 1,2-dibromoethane	13.00	107	813349	46.29	ppb		99
46) chlorobenzene	13.87	112	3920678	46.49	ppb		98
47) 1,1,1,2-tetrachloroethane	14.02	131	1194576	51.68	ppb		98

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\JAN-OCT2005\1101105\1011113.D Vial: 13
Acq On : 11 Oct 2005 3:08 pm Operator: JTF
Sample : vstd50 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Nov 8 15:05 2005 Quant Results File: 8260SSC.RES

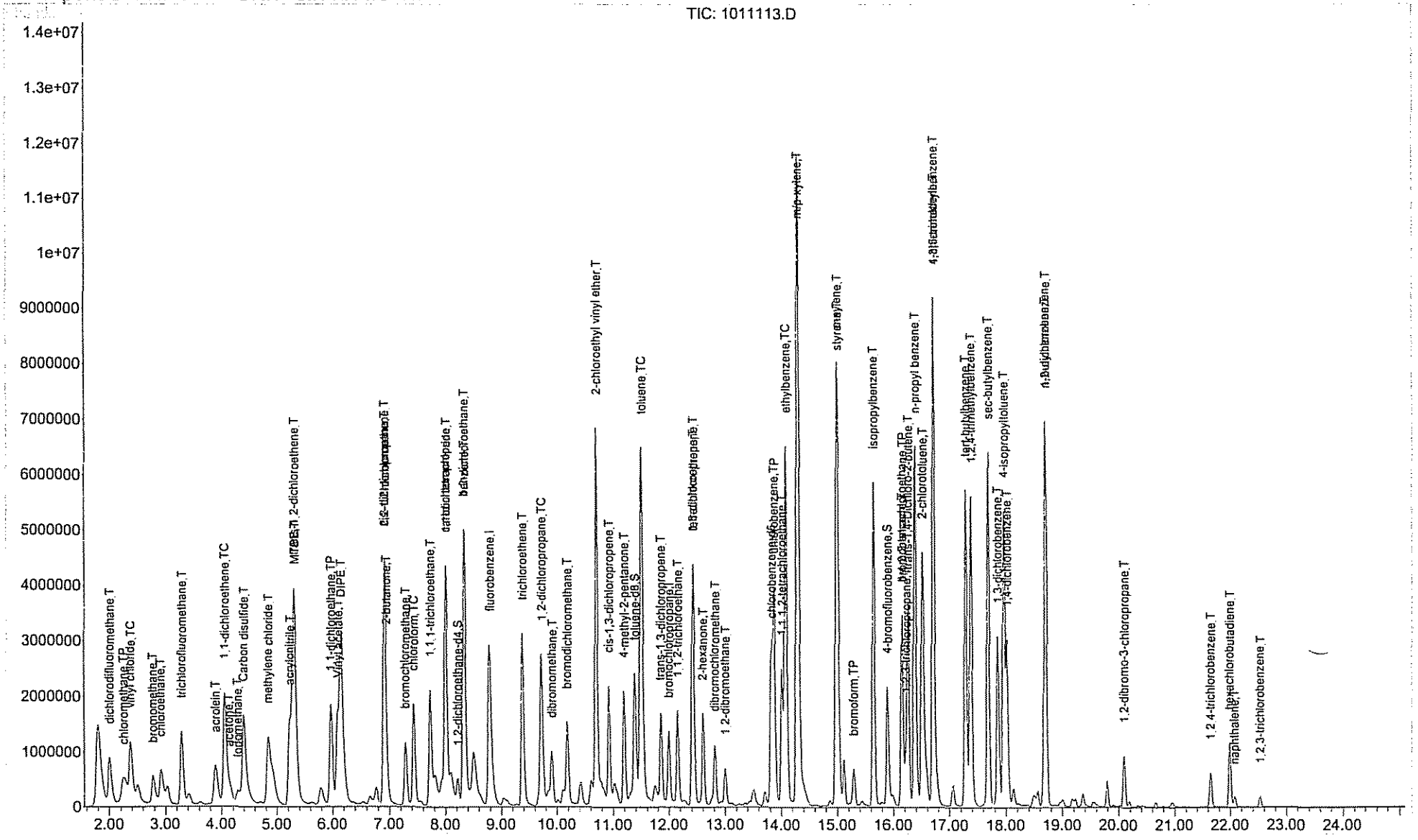
Quant Method : D:\HPCHEM\1\JAN-OCT2005\1101105\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
48)	bromoform	15.30	173	532852	47.05 ppb		98
50)	bromobenzene	16.15	156	1289329	50.55 ppb		96
51)	1,1,2,2-tetrachloroethane	16.16	83	923864	48.61 ppb		99
52)	1,2,3-trichloropropane	16.22	110	233669	45.52 ppb	#	72
54)	ethylbenzene	14.08	91	9651766	48.71 ppb	#	78
55)	m/p-xylene	14.29	106	7248129	98.72 ppb	#	100
56)	styrene	15.01	104	3974203	45.14 ppb		100
57)	o-xylene	14.98	106	3194985	46.00 ppb		77
58)	isopropylbenzene	15.65	105	7766316	48.40 ppb	#	87
59)	n-propyl benzene	16.38	91	10394241	49.74 ppb	#	80
60)	2-chlorotoluene	16.52	126	1435233	49.28 ppb		99
61)	4-chlorotoluene	16.71	91	5588117	48.91 ppb		98
62)	1,3,5-trimethylbenzene	16.71	105	6055545	49.64 ppb		94
63)	tert-butylbenzene	17.28	119	4738269	49.51 ppb		86
64)	1,2,4-trimethylbenzene	17.38	105	6596764	47.34 ppb	#	75
65)	sec-butylbenzene	17.69	105	8453203	49.01 ppb	#	69
66)	1,3-dichlorobenzene	17.85	146	2481948	48.25 ppb		99
67)	4-isopropyltoluene	17.96	119	5717861	48.27 ppb	#	84
68)	1,4-dichlorobenzene	18.02	146	2315590	47.65 ppb		98
69)	1,2-dichlorobenzene	18.69	146	1923024	48.51 ppb		98
70)	n-butylbenzene	18.71	91	5917492	47.27 ppb	#	85
71)	1,2-dibromo-3-chloropropan	20.09	75	365746	218.45 ppb		91
72)	1,2,4-trichlorobenzene	21.64	180	378368	44.91 ppb		96
73)	hexachlorobutadiene	22.00	225	486024	51.72 ppb		99
74)	naphthalene	22.07	128	284322	44.35 ppb		98
75)	trans-1,4-Dichloro-2-buten	16.26	89	910115	222.19 ppb		93
76)	1,2,3-trichlorobenzene	22.53	180	126844	49.97 ppb		96
77)	MTBE	5.33	73	3244498	44.88 ppb		93
78)	DIPE	6.14	45	6745762	46.37 ppb		97

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\JAN-OCT2005\1101105\1011113.D Vial: 13
Acq On : 11 Oct 2005 3:08 pm Operator: JTF
Sample : vstd50 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Nov 8 15:05 2005 Quant Results File: 8260SSC.RES

Method : D:\HPCHEM\1\JAN-OCT2005\1101105\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration



1011113.D 8260SSC.M Tue Nov 08 15:05:11 2005 Page 3

PARADIGM ANALYTICAL LABORATORIES, INC.
Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\JAN-OCT2005\1101105\1011114.D Vial: 14
Acq On : 11 Oct 2005 3:40 pm Operator: JTF
Sample : vstd80 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Nov 8 15:05 2005 Quant Results File: 8260SSC.RES

Quant Method : D:\HPCHEM\1\JAN-OCT2005\1101105\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) fluorobenzene	8.79	96	5696046	50.00	ppb		0.01
39) bromochloropropane	11.99	79	531920	50.00	ppb		0.00
53) chlorobenzene-d5	13.82	117	2908507	50.00	ppb		0.00
System Monitoring Compounds							
23) 1,2-dichloroethane-d4	8.21	65	518405	47.47	ppb		0.00
Spiked Amount 50.000			Recovery	=	94.94%		
33) toluene-d8	11.38	98	3471189	50.40	ppb		0.00
Spiked Amount 50.000			Recovery	=	100.80%		
49) 4-bromofluorobenzene	15.89	95	1650361	52.05	ppb		0.00
Spiked Amount 50.000			Recovery	=	104.10%		
Target Compounds							Qvalue
2) dichlorodifluoromethane	2.01	85	3341352	80.60	ppb		98
3) chloromethane	2.25	50	4348153	82.37	ppb		98
4) vinyl chloride	2.38	62	5199715	83.26	ppb		99
5) bromomethane	2.77	94	1243326	84.33	ppb		91
6) chloroethane	2.90	64	2249015	118.97	ppb		99
7) trichlorofluoromethane	3.28	101	3538606	79.36	ppb		98
8) acrolein	3.89	56	3125950	725.30	ppb		99
9) 1,1-dichloroethene	4.05	96	2932385	75.78	ppb		98
10) acetone	4.14	43	1666609	73.39	ppb		99
11) methylene chloride	4.84	84	2629029	74.42	ppb		96
12) trans-1,2-dichloroethene	5.29	96	3362396	75.51	ppb		99
13) acrylonitrile	5.23	53	5895865	736.40	ppb		99
14) 1,1-dichloroethane	5.96	63	6335332	76.76	ppb		100
15) 2,2-dichloropropane	6.91	77	3836098	73.13	ppb		100
16) cis-1,2-dichloroethene	6.92	96	3290344	76.13	ppb		97
17) 2-butanone	6.95	43	2299081	69.63	ppb		99
18) bromochloromethane	7.29	128	986979	75.26	ppb		92
19) chloroform	7.44	83	4323391	75.10	ppb		99
20) 1,1,1-trichloroethane	7.72	97	4080152	76.06	ppb		100
21) carbon tetrachloride	8.01	117	2909840	76.43	ppb		98
22) 1,1-dichloropropene	8.00	75	4303728	76.82	ppb		99
24) benzene	8.33	78	12747258	75.90	ppb	#	82
25) 1,2-dichloroethane	8.33	62	2626564	75.32	ppb		98
26) trichloroethene	9.39	95	3335139	77.28	ppb		97
27) 1,2-dichloropropane	9.72	63	3237268	76.48	ppb		95
28) dibromomethane	9.91	93	1095736	74.49	ppb		93
29) bromodichloromethane	10.18	83	2732211	75.64	ppb		100
30) 2-chloroethyl vinyl ether	10.70	106	2147753	71.47	ppb		96
31) cis-1,3-dichloropropene	10.93	75	3674768	76.15	ppb		98
32) 4-methyl-2-pentanone	11.20	43	4280556	73.32	ppb		99
34) toluene	11.49	92	10599819	77.65	ppb	#	33
35) Iodomethane	4.29	142	1710119	75.54	ppb		96
36) trans-1,3-dichloropropene	11.86	75	2702429	76.04	ppb		100
37) Vinyl acetate	6.08	86	746797	228.63	ppb		97
38) Carbon disulfide	4.40	76	10161861	75.41	ppb		99
40) 1,1,2-trichloroethane	12.15	83	1348944	75.66	ppb		98
41) tetrachloroethene	12.43	166	2924318	84.19	ppb		96
42) 1,3-dichloropropane	12.44	76	2898882	74.94	ppb		99
43) 2-hexanone	12.60	43	3353251	72.41	ppb		98
44) dibromochloromethane	12.82	129	1560347	74.78	ppb		100
45) 1,2-dibromoethane	13.00	107	1395780	75.11	ppb		96
46) chlorobenzene	13.87	112	6782419	76.05	ppb		98
47) 1,1,1,2-tetrachloroethane	14.01	131	2024233	85.94	ppb		98

(#) = qualifier out of range (m) = manual integration
1011114.D 8260SSC.M Tue Nov 08 15:05:16 2005

N.C. CERTIFICATION #481

Data File : D:\HPCHEM\1\JAN-OCT2005\1101105\1011114.D Vial: 14
Acq On : 11 Oct 2005 3:40 pm Operator: JTF
Sample : vstd80 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Nov 8 15:05 2005 Quant Results File: 8260SSC.RES

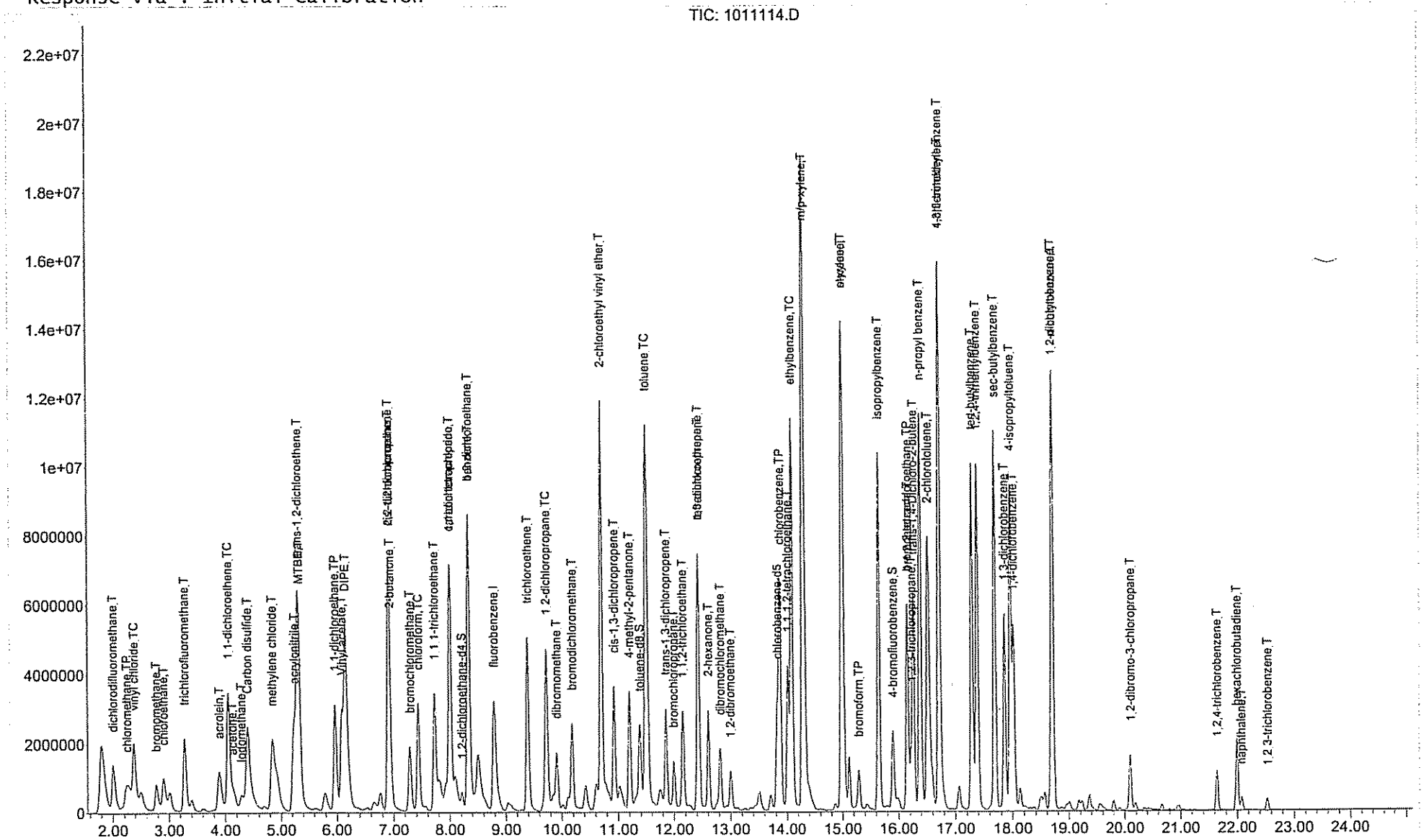
Quant Method : D:\HPCHEM\1\JAN-OCT2005\1101105\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
48) bromoform	15.29	173	916734	76.54 ppb		96
50) bromobenzene	16.15	156	2254531	87.23 ppb		99
51) 1,1,2,2-tetrachloroethane	16.16	83	1652502	86.12 ppb		97
52) 1,2,3-trichloropropane	16.22	110	412686	76.01 ppb	#	85
54) ethylbenzene	14.08	91	16896140	82.75 ppb	#	78
55) m/p-xylene	14.30	106	12621457	172.11 ppb	#	100
56) styrene	15.00	104	7072469	77.03 ppb		100
57) o-xylene	14.98	106	5517400	76.16 ppb		76
58) isopropylbenzene	15.64	105	13596830	81.92 ppb	#	87
59) n-propyl benzene	16.38	91	18304875	85.89 ppb	#	80
60) 2-chlorotoluene	16.52	126	2487291	84.54 ppb		95
61) 4-chlorotoluene	16.72	91	9849161	86.27 ppb		98
62) 1,3,5-trimethylbenzene	16.72	105	10670162	87.58 ppb		93
63) tert-butylbenzene	17.29	119	8352521	86.60 ppb		87
64) 1,2,4-trimethylbenzene	17.39	105	11891171	82.60 ppb	#	73
65) sec-butylbenzene	17.69	105	14965781	84.16 ppb	#	69
66) 1,3-dichlorobenzene	17.86	146	4349756	83.07 ppb		100
67) 4-isopropyltoluene	17.97	119	10138531	83.01 ppb	#	83
68) 1,4-dichlorobenzene	18.02	146	4129938	83.85 ppb		99
69) 1,2-dichlorobenzene	18.68	146	3366173	84.16 ppb		99
70) n-butylbenzene	18.70	91	10822069	83.76 ppb	#	83
71) 1,2-dibromo-3-chloropropan	20.10	75	656363	375.92 ppb		96
72) 1,2,4-trichlorobenzene	21.65	180	687526	81.12 ppb		98
73) hexachlorobutadiene	21.99	225	830984	87.76 ppb		97
74) naphthalene	22.07	128	535486	80.73 ppb		99
75) trans-1,4-Dichloro-2-buten	16.26	89	1629957	381.59 ppb		96
76) 1,2,3-trichlorobenzene	22.53	180	206131	79.67 ppb		94
77) MTBE	5.33	73	5514984	73.15 ppb		91
78) DIPE	6.15	45	11464038	75.56 ppb		95

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\JAN-OCT2005\1101105\1011114.D Vial: 14
Acq On : 11 Oct 2005 3:40 pm Operator: JTF
Sample : vstd80 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Nov 8 15:05 2005 Quant Results File: 8260SSC.RES

Method : D:\HPCHEM\1\JAN-OCT2005\1101105\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration



1011114.D 8260SSC.M Tue Nov 08 15:05:19 2005 Page 3

PARADIGM ANALYTICAL LABORATORIES, INC.
Quantification Report (Not Reviewed)

Data File : D:\HPCHEM\1\JAN-OCT2005\1101105\1011115.D Vial: 15
Acq On : 11 Oct 2005 4:11 pm Operator: JTF
Sample : vstd100 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Nov 8 15:05 2005 Quant Results File: 8260SSC.RES

Quant Method : D:\HPCHEM\1\JAN-OCT2005\1101105\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) fluorobenzene	8.78	96	6365449	50.00	ppb		0.00
39) bromochloropropane	11.99	79	603306	50.00	ppb		0.00
53) chlorobenzene-d5	13.83	117	3143791	50.00	ppb		0.00
System Monitoring Compounds							
23) 1,2-dichloroethane-d4	8.22	65	582821	47.76	ppb		0.00
Spiked Amount 50.000			Recovery	=	95.52%		
33) toluene-d8	11.38	98	3868979	50.27	ppb		0.00
Spiked Amount 50.000			Recovery	=	100.54%		
49) 4-bromofluorobenzene	15.89	95	1770563	49.23	ppb		0.00
Spiked Amount 50.000			Recovery	=	98.46%		
Target Compounds							Qvalue
2) dichlorodifluoromethane	2.01	85	4557688	98.38	ppb		98
3) chloromethane	2.26	50	6094340	103.30	ppb		98
4) vinyl chloride	2.37	62	7357306	105.42	ppb		99
5) bromomethane	2.77	94	1769049	109.81	ppb		94
6) chloroethane	2.89	64	2353990	110.69	ppb		96
7) trichlorofluoromethane	3.26	101	4877488	97.88	ppb		99
8) acrolein	3.89	56	4826519	1002.11	ppb		99
9) 1,1-dichloroethene	4.04	96	3990722	92.29	ppb		97
10) acetone	4.15	43	2638747	104.13	ppb		99
11) methylene chloride	4.83	84	3742440	94.79	ppb		97
12) trans-1,2-dichloroethene	5.28	96	4690462	94.25	ppb		98
13) acrylonitrile	5.23	53	9722515	1086.64	ppb		100
14) 1,1-dichloroethane	5.96	63	8851417	95.97	ppb		98
15) 2,2-dichloropropane	6.91	77	5149983	87.86	ppb		98
16) cis-1,2-dichloroethene	6.91	96	4607986	95.41	ppb		100
17) 2-butanone	6.95	43	3650990	98.94	ppb		100
18) bromochloromethane	7.28	128	1382343	94.32	ppb		98
19) chloroform	7.43	83	5954917	92.56	ppb		98
20) 1,1,1-trichloroethane	7.72	97	5388255	89.88	ppb		99
21) carbon tetrachloride	8.00	117	3767967	88.56	ppb		100
22) 1,1-dichloropropene	8.00	75	5924989	94.64	ppb		99
24) benzene	8.32	78	18078678	96.32	ppb	#	83
25) 1,2-dichloroethane	8.33	62	3650184	93.66	ppb		99
26) trichloroethene	9.38	95	4630609	96.01	ppb		99
27) 1,2-dichloropropane	9.72	63	4640556	98.10	ppb		98
28) dibromomethane	9.91	93	1578621	96.03	ppb		94
29) bromodichloromethane	10.18	83	3780097	93.64	ppb		100
30) 2-chloroethyl vinyl ether	10.71	106	3578124	103.92	ppb		97
31) cis-1,3-dichloropropene	10.92	75	5267411	97.68	ppb		99
32) 4-methyl-2-pentanone	11.20	43	6636942	101.73	ppb		100
34) toluene	11.49	92	14687008	96.28	ppb	#	47
35) Iodomethane	4.28	142	2486758	95.64	ppb		99
36) trans-1,3-dichloropropene	11.86	75	3830586	96.45	ppb		98
37) Vinyl acetate	6.08	86	909055	252.24	ppb		98
38) Carbon disulfide	4.39	76	14277533	94.81	ppb		100
40) 1,1,2-trichloroethane	12.15	83	1906781	94.29	ppb		98
41) tetrachloroethene	12.42	166	3898220	99.79	ppb		99
42) 1,3-dichloropropane	12.44	76	4165711	94.94	ppb		99
43) 2-hexanone	12.60	43	5117547	97.43	ppb		99
44) dibromochloromethane	12.82	129	2173029	91.81	ppb		97
45) 1,2-dibromoethane	13.00	107	2008014	95.27	ppb		99
46) chlorobenzene	13.87	112	9138841	90.35	ppb		99
47) 1,1,1,2-tetrachloroethane	14.01	131	2689273	101.56	ppb		99

(#) = qualifier out of range (m) = manual integration
1011115.D 8260SSC.M Tue Nov 08 15:05:24 2005

PARADIGM ANALYTICAL LABORATORIES, INC.
Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\JAN-OCT2005\1101105\1011115.D Vial: 15
Acq On : 11 Oct 2005 4:11 pm Operator: JTF
Sample : vstd100 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Nov 8 15:05 2005 Quant Results File: 8260SSC.RES

Quant Method : D:\HPCHEM\1\JAN-OCT2005\1101105\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

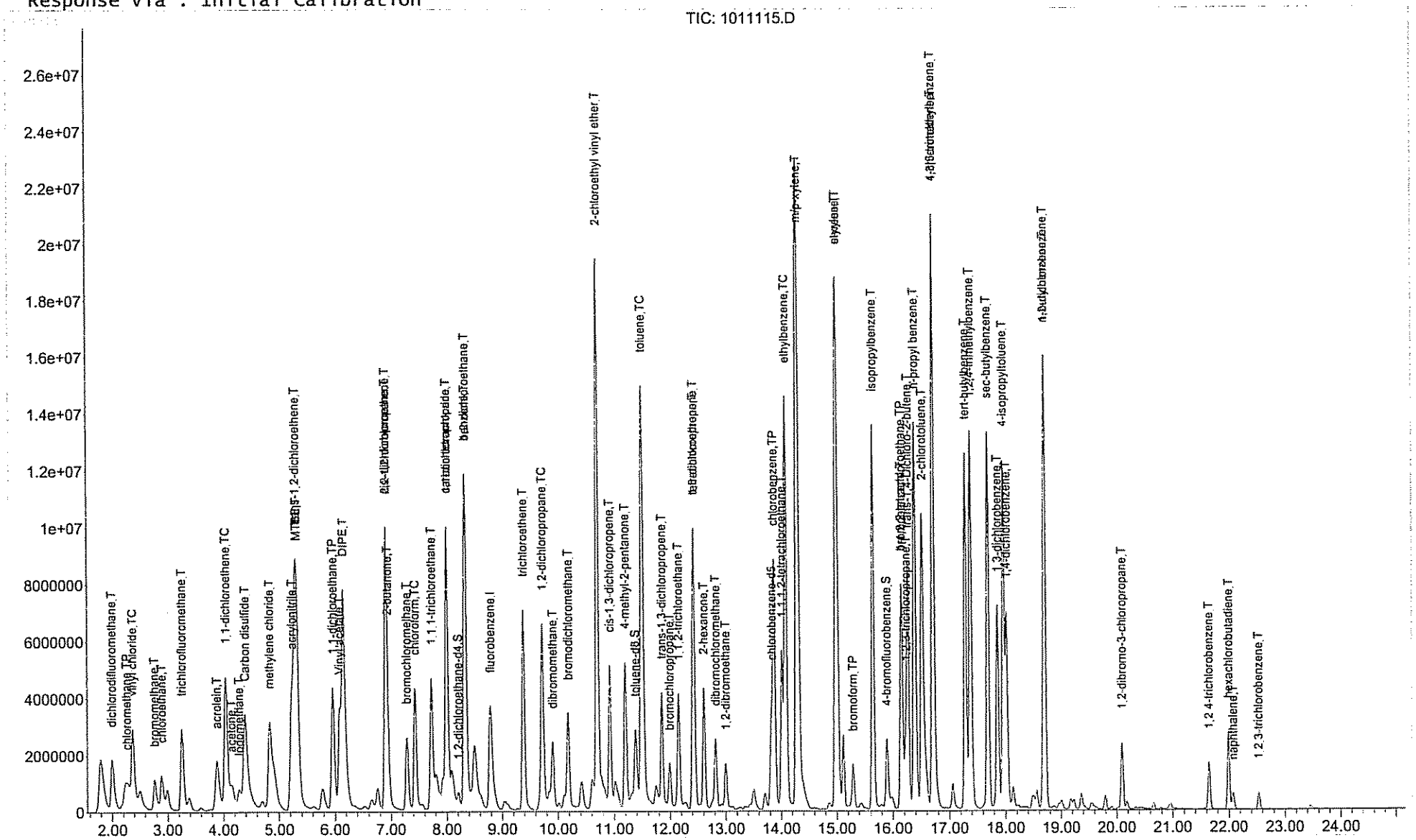
Compound	R.T.	QIon	Response	Conc Unit		Qvalue
48) bromoform	15.29	173	1262658	92.95 ppb		99
50) bromobenzene	16.15	156	2970361	102.23 ppb		99
51) 1,1,2,2-tetrachloroethane	16.16	83	2245755	104.31 ppb		99
52) 1,2,3-trichloropropane	16.23	110	568414	92.31 ppb		95
54) ethylbenzene	14.08	91	21665331	98.44 ppb	#	80
55) m/p-xylene	14.30	106	16927015	216.17 ppb	#	100
56) styrene	15.01	104	9472183	95.44 ppb		100
57) o-xylene	14.99	106	7342667	93.78 ppb		77
58) isopropylbenzene	15.65	105	17773279	99.28 ppb	#	87
59) n-propyl benzene	16.38	91	21917940	95.44 ppb	#	82
60) 2-chlorotoluene	16.51	126	3257845	103.29 ppb		94
61) 4-chlorotoluene	16.71	91	12852703	105.24 ppb		97
62) 1,3,5-trimethylbenzene	16.71	105	13785233	105.73 ppb		93
63) tert-butylbenzene	17.29	119	10591746	102.33 ppb		85
64) 1,2,4-trimethylbenzene	17.38	105	15398443	99.18 ppb	#	72
65) sec-butylbenzene	17.69	105	18657046	97.28 ppb	#	72
66) 1,3-dichlorobenzene	17.86	146	5690035	101.15 ppb		98
67) 4-isopropyltoluene	17.96	119	12964225	98.44 ppb	#	83
68) 1,4-dichlorobenzene	18.02	146	5383663	101.81 ppb		99
69) 1,2-dichlorobenzene	18.69	146	4441768	103.63 ppb		98
70) n-butylbenzene	18.71	91	13695406	98.27 ppb	#	83
71) 1,2-dibromo-3-chloropropan	20.09	75	953874	505.42 ppb		100
72) 1,2,4-trichlorobenzene	21.65	180	1004679	111.04 ppb		99
73) hexachlorobutadiene	21.99	225	1098015	108.31 ppb		97
74) naphthalene	22.07	128	868975	121.59 ppb		99
75) trans-1,4-Dichloro-2-buten	16.27	89	2237581	484.63 ppb		95
76) 1,2,3-trichlorobenzene	22.52	180	366048	132.97 ppb		96
77) MTBE	5.32	73	8284242	101.66 ppb		95
78) DIPE	6.15	45	16687152	101.75 ppb		92

(#) = qualifier out of range (m) = manual integration
1011115.D 8260SSC.M Tue Nov 08 15:05:25 2005

N.C. CERTIFICATION #481

Data File : D:\HPCHEM\1\JAN-OCT2005\1101105\1011115.D Vial: 15
Acq On : 11 Oct 2005 4:11 pm Operator: JTF
Sample : vstd100 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Nov 8 15:05 2005 Quant Results File: 8260SSC.RES

Method : D:\HPCHEM\1\JAN-OCT2005\1101105\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration



1011115.D 8260SSC.M Tue Nov 08 15:05:27 2005 Page 3

Data File : D:\HPCHEM\1\JAN-OCT2005\1101105\1011116.D Vial: 16
Acq On : 11 Oct 2005 4:43 pm Operator: JTF
Sample : vstd200 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Nov 8 15:05 2005 Quant Results File: 8260SSC.RES

Quant Method : D:\HPCHEM\1\JAN-OCT2005\1101105\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) fluorobenzene	8.77	96	6480191	50.00	ppb	0.00
39) bromochloropropane	12.00	79	611706	50.00	ppb	0.00
53) chlorobenzene-d5	13.82	117	3073602	50.00	ppb	0.00
System Monitoring Compounds						
23) 1,2-dichloroethane-d4	8.21	65	595673	47.95	ppb	0.00
Spiked Amount 50.000			Recovery	=	95.90%	
33) toluene-d8	11.38	98	3949590	50.41	ppb	0.00
Spiked Amount 50.000			Recovery	=	100.82%	
49) 4-bromofluorobenzene	15.90	95	1710526	46.91	ppb	0.00
Spiked Amount 50.000			Recovery	=	93.82%	
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.00	85	9230634	195.72	ppb	100
3) chloromethane	2.29	50	12820012	213.46	ppb	100
4) vinyl chloride	2.37	62	15107310	212.63	ppb	100
5) bromomethane	2.75	94	3072556	193.63	ppb	100
6) chloroethane	2.87	64	4035359	194.36	ppb	100
7) trichlorofluoromethane	3.22	101	9131750	180.01	ppb	100
8) acrolein	3.89	56	9163250	1868.83	ppb	100
9) 1,1-dichloroethene	4.01	96	8174559	185.70	ppb	100
10) acetone	4.15	43	5185652	201.36	ppb	100
11) methylene chloride	4.82	84	7522739	187.17	ppb	100
12) trans-1,2-dichloroethene	5.27	96	9606791	189.63	ppb	100
13) acrylonitrile	5.24	53	19931047	2188.16	ppb	100
14) 1,1-dichloroethane	5.95	63	18164937	193.47	ppb	100
15) 2,2-dichloropropane	6.90	77	10614703	177.88	ppb	100
16) cis-1,2-dichloroethene	6.90	96	9527851	193.78	ppb	100
17) 2-butanone	6.95	43	7336836	195.31	ppb	100
18) bromochloromethane	7.28	128	2608550	174.84	ppb	100
19) chloroform	7.43	83	12061552	184.16	ppb	100
20) 1,1,1-trichloroethane	7.72	97	10831364	177.48	ppb	100
21) carbon tetrachloride	8.00	117	7452001	172.04	ppb	100
22) 1,1-dichloropropene	8.00	75	12127694	190.28	ppb	100
24) benzene	8.32	78	32179274	168.42	ppb	100
25) 1,2-dichloroethane	8.33	62	7243304	182.57	ppb	100
26) trichloroethene	9.37	95	9368901	190.82	ppb	100
27) 1,2-dichloropropane	9.72	63	9681711	201.05	ppb	100
28) dibromomethane	9.90	93	3230274	193.02	ppb	100
29) bromodichloromethane	10.18	83	7512488	182.80	ppb	100
30) 2-chloroethyl vinyl ether	10.71	106	7281542	202.37	ppb	100
31) cis-1,3-dichloropropene	10.93	75	10786485	196.48	ppb	100
32) 4-methyl-2-pentanone	11.21	43	12835191	193.26	ppb	100
34) toluene	11.49	92	27776619	178.87	ppb	100
35) Iodomethane	4.26	142	5712150	204.71	ppb	100
36) trans-1,3-dichloropropene	11.85	75	7696865	190.36	ppb	100
37) Vinyl acetate	6.08	86	1680957	487.52	ppb	100
38) Carbon disulfide	4.37	76	29005109	189.19	ppb	100
40) 1,1,2-trichloroethane	12.16	83	3809240	185.78	ppb	100
41) tetrachloroethene	12.42	166	7664874	198.03	ppb	100
42) 1,3-dichloropropane	12.44	76	8301528	186.61	ppb	100
43) 2-hexanone	12.62	43	9756944	183.21	ppb	100
44) dibromochloromethane	12.82	129	4217347	175.74	ppb	100
45) 1,2-dibromoethane	13.00	107	3995505	186.96	ppb	100
46) chlorobenzene	13.87	112	18308327	178.51	ppb	100
47) 1,1,1,2-tetrachloroethane	14.02	131	5155740	196.67	ppb	100

(#) = qualifier out of range (m) = manual integration
1011116.D 8260SSC.M Tue Nov 08 15:05:32 2005

Data File : D:\HPCHEM\1\JAN-OCT2005\1101105\1011116.D Vial: 16
Acq On : 11 Oct 2005 4:43 pm Operator: JTF
Sample : vstd200 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Nov 8 15:05 2005 Quant Results File: 8260SSC.RES

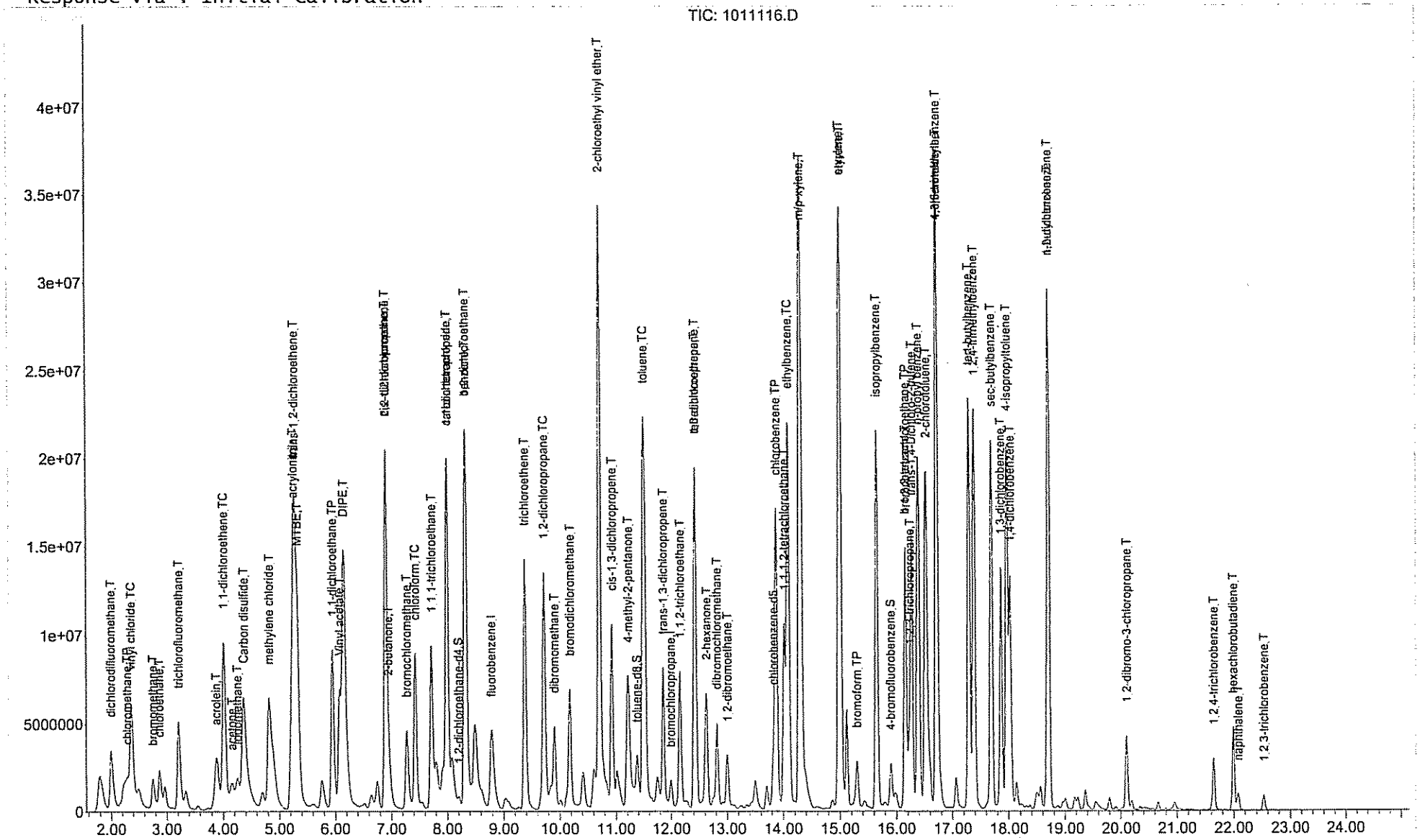
Quant Method : D:\HPCHEM\1\JAN-OCT2005\1101105\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
48)	bromoform	15.30	173	2324983	168.80 ppb		100
50)	bromobenzene	16.15	156	5634322	196.13 ppb		100
51)	1,1,2,2-tetrachloroethane	16.16	83	4174154	195.93 ppb		100
52)	1,2,3-trichloropropane	16.23	110	1072074	171.71 ppb		100
54)	ethylbenzene	14.07	91	30352651	141.68 ppb		100
55)	m/p-xylene	14.29	106	29083152	388.13 ppb	#	100
56)	styrene	15.00	104	18919817	194.99 ppb		100
57)	o-xylene	14.98	106	14519013	189.66 ppb		100
58)	isopropylbenzene	15.64	105	26535872	152.12 ppb		100
59)	n-propyl benzene	16.37	91	29242523	131.25 ppb		100
60)	2-chlorotoluene	16.52	126	6172288	203.92 ppb		100
61)	4-chlorotoluene	16.72	91	22823016	195.42 ppb		100
62)	1,3,5-trimethylbenzene	16.72	105	24263581	194.63 ppb		100
63)	tert-butylbenzene	17.29	119	19518409	196.60 ppb		100
64)	1,2,4-trimethylbenzene	17.38	105	25235967	166.97 ppb		100
65)	sec-butylbenzene	17.69	105	25996960	139.23 ppb		100
66)	1,3-dichlorobenzene	17.86	146	10774081	198.65 ppb		100
67)	4-isopropyltoluene	17.96	119	21635992	169.00 ppb		100
68)	1,4-dichlorobenzene	18.02	146	10087955	198.16 ppb		100
69)	1,2-dichlorobenzene	18.69	146	8110323	197.02 ppb		100
70)	n-butylbenzene	18.70	91	22561929	166.36 ppb		100
71)	1,2-dibromo-3-chloropropan	20.10	75	1688641	915.18 ppb		100
72)	1,2,4-trichlorobenzene	21.64	180	1703862	195.45 ppb		100
73)	hexachlorobutadiene	21.99	225	1879098	193.07 ppb		100
74)	naphthalene	22.08	128	1400917	201.00 ppb		100
75)	trans-1,4-Dichloro-2-buten	16.27	89	4090997	906.29 ppb		100
76)	1,2,3-trichlorobenzene	22.53	180	534806	200.31 ppb		100
77)	MTBE	5.33	73	16664350	209.17 ppb		100
78)	DIPE	6.15	45	32670275	203.76 ppb		100

(#) = qualifier out of range (m) = manual integration
1011116.D 8260SSC.M Tue Nov 08 15:05:33 2005

Data File : D:\HPCHEM\1\JAN-OCT2005\1101105\1011116.D Vial: 16
Acq On : 11 Oct 2005 4:43 pm Operator: JTF
Sample : vstd200 Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Nov 8 15:05 2005 Quant Results File: 8260SSC.RES

Method : D:\HPCHEM\1\JAN-OCT2005\1101105\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration



8260 QC, Blanks Raw Data

Data File : D:\HPCHEM\1\JAN-OCT2005\1101205\1012103.D Vial: 3
Acq On : 12 Oct 2005 9:26 am Operator: JTF
Sample : lcs1101205a Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 8:51 2005 Quant Results File: 8260SSC.RES

Quant Method : D:\HPCHEM\1\DATA\1101205\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) fluorobenzene	8.78	96	5316453	50.00	ppb		0.00
39) bromochloropropane	11.99	79	494726	50.00	ppb		0.00
53) chlorobenzene-d5	13.81	117	2671485	50.00	ppb		0.00
System Monitoring Compounds							
23) 1,2-dichloroethane-d4	8.20	65	533248	52.32	ppb		0.00
Spiked Amount 50.000			Recovery	=	104.64%		
33) toluene-d8	11.37	98	3202976	49.83	ppb		0.00
Spiked Amount 50.000			Recovery	=	99.66%		
49) 4-bromofluorobenzene	15.89	95	1458620	49.46	ppb		0.00
Spiked Amount 50.000			Recovery	=	98.92%		
Target Compounds							Qvalue
2) dichlorodifluoromethane	2.02	85	1893137	48.93	ppb		97
3) chloromethane	2.25	50	2570431	52.17	ppb		98
4) vinyl chloride	2.38	62	2964607	50.86	ppb		100
5) bromomethane	2.77	94	923721	65.31	ppb		96
6) chloroethane	2.92	64	1419656	76.69	ppb		95
7) trichlorofluoromethane	3.28	101	2071098	49.76	ppb		98
8) acrolein	3.89	56	2238062	556.36	ppb		99
9) 1,1-dichloroethene	4.06	96	1742328	48.24	ppb		99
10) acetone	4.13	43	1193535	56.23	ppb		98
11) methylene chloride	4.85	84	1583856	48.03	ppb		97
12) trans-1,2-dichloroethene	5.29	96	1996709	48.04	ppb		98
13) acrylonitrile	5.22	53	3754234	502.39	ppb		99
14) 1,1-dichloroethane	5.96	63	3716113	48.24	ppb		98
15) 2,2-dichloropropane	6.91	77	2451506	50.07	ppb		97
16) cis-1,2-dichloroethene	6.91	96	1974513	48.95	ppb		97
17) 2-butanone	6.94	43	1585936	51.46	ppb		99
18) bromochloromethane	7.28	128	620784	50.72	ppb		91
19) chloroform	7.43	83	2600990	48.41	ppb		98
20) 1,1,1-trichloroethane	7.72	97	2399808	47.93	ppb		97
21) carbon tetrachloride	8.00	117	1693585	47.66	ppb		99
22) 1,1-dichloropropene	8.00	75	2539678	48.57	ppb		99
24) benzene	8.32	78	7476261	47.69	ppb	#	84
25) 1,2-dichloroethane	8.33	62	1618283	49.72	ppb		97
26) trichloroethene	9.38	95	1882567	46.73	ppb		96
27) 1,2-dichloropropane	9.72	63	1936376	49.01	ppb		93
28) dibromomethane	9.90	93	670010	48.80	ppb		93
29) bromodichloromethane	10.17	83	1626922	48.25	ppb		99
30) 2-chloroethyl vinyl ether	10.69	106	1208423	45.21	ppb		97
31) cis-1,3-dichloropropene	10.92	75	2210172	49.07	ppb		97
32) 4-methyl-2-pentanone	11.19	43	2780872	51.04	ppb		100
34) toluene	11.48	92	6189787	48.58	ppb	#	36
35) Iodomethane	4.30	142	806054	42.52	ppb		99
36) trans-1,3-dichloropropene	11.85	75	1671238	50.38	ppb		97
37) Vinyl acetate	6.08	86	672781	219.42	ppb		84
38) Carbon disulfide	4.40	76	6014872	47.82	ppb		99
40) 1,1,2-trichloroethane	12.15	83	820209	49.46	ppb		99
41) tetrachloroethene	12.42	166	1695042	50.66	ppb		96
42) 1,3-dichloropropane	12.43	76	1758450	48.87	ppb		96
43) 2-hexanone	12.59	43	2101123	48.78	ppb		99
44) dibromochloromethane	12.81	129	951014	49.00	ppb		100
45) 1,2-dibromoethane	12.99	107	834907	48.30	ppb		100
46) chlorobenzene	13.86	112	3907878	47.11	ppb		100
47) 1,1,1,2-tetrachloroethane	14.00	131	1158951	50.90	ppb		98

(#) = qualifier out of range (m) = manual integration
1012103.D 6210D.M Tue Nov 08 15:09:02 2005

Data File : D:\HPCHEM\1\JAN-OCT2005\1101205\1012103.D Vial: 3
Acq On : 12 Oct 2005 9:26 am Operator: JTF
Sample : lcs1101205a Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 8:51 2005 Quant Results File: 8260SSC.RES

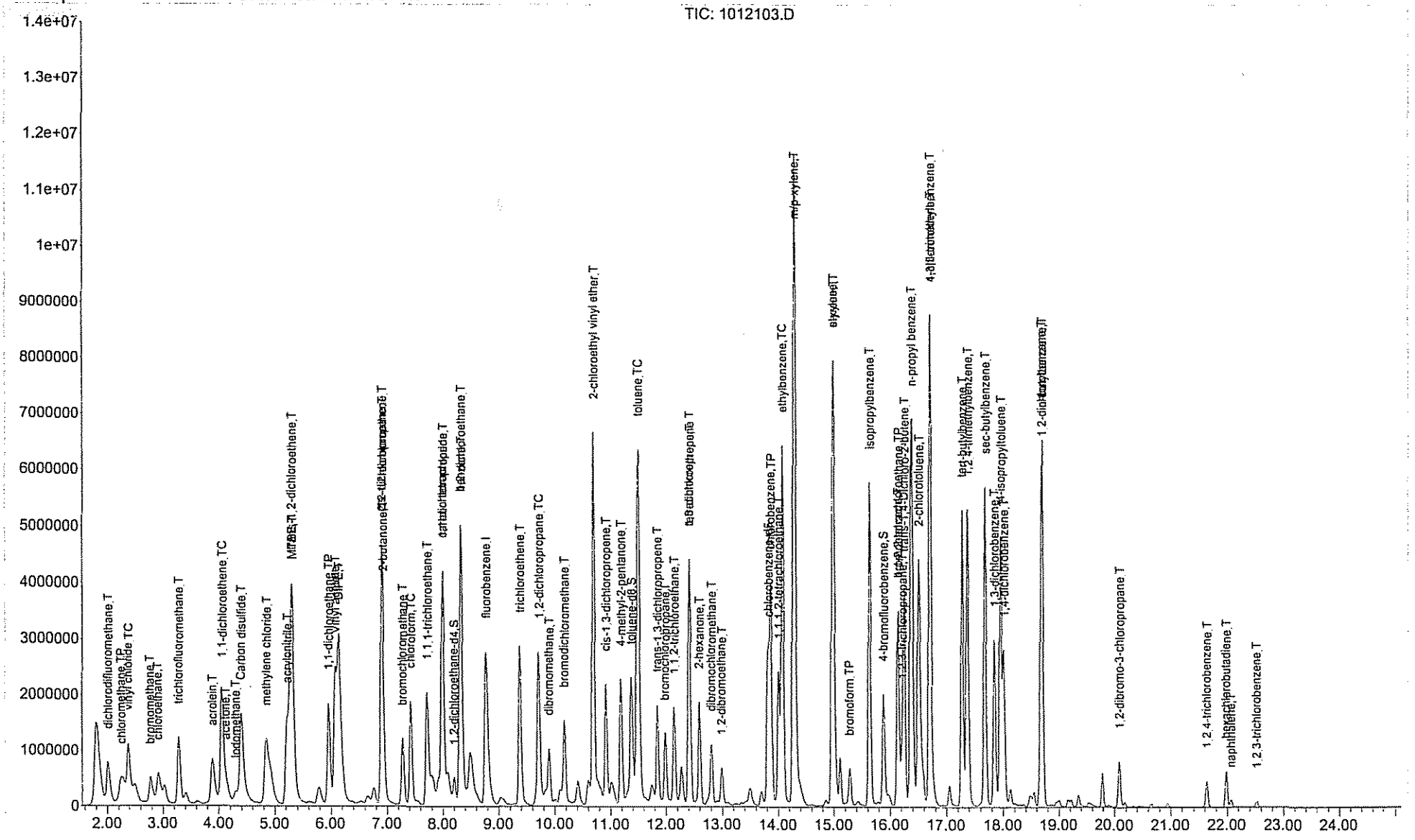
Quant Method : D:\HPCHEM\1\DATA\1101205\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
48)	bromoform	15.28	173	537094	48.22 ppb		98
50)	bromobenzene	16.14	156	1260651	50.21 ppb		98
51)	1,1,2,2-tetrachloroethane	16.16	83	1010441	54.68 ppb		98
52)	1,2,3-trichloropropane	16.21	110	252876	50.08 ppb	#	73
54)	ethylbenzene	14.07	91	9576434	50.51 ppb	#	78
55)	m/p-xylene	14.29	106	7123026	101.56 ppb	#	100
56)	styrene	14.99	104	3963855	47.00 ppb		100
57)	o-xylene	14.97	106	3127112	47.00 ppb		76
58)	isopropylbenzene	15.63	105	7416461	48.25 ppb	#	88
59)	n-propyl benzene	16.37	91	9986976	49.91 ppb	#	80
60)	2-chlorotoluene	16.51	126	1387380	49.77 ppb		98
61)	4-chlorotoluene	16.71	91	5475167	50.15 ppb		99
62)	1,3,5-trimethylbenzene	16.71	105	5778318	49.43 ppb		93
63)	tert-butylbenzene	17.28	119	4367982	47.49 ppb		87
64)	1,2,4-trimethylbenzene	17.38	105	6283565	47.07 ppb	#	75
65)	sec-butylbenzene	17.68	105	7694508	46.51 ppb	#	71
66)	1,3-dichlorobenzene	17.85	146	2380230	48.31 ppb		98
67)	4-isopropyltoluene	17.96	119	5186976	45.64 ppb	#	83
68)	1,4-dichlorobenzene	18.01	146	2209908	47.47 ppb		99
69)	1,2-dichlorobenzene	18.67	146	1811265	47.64 ppb		99
70)	n-butylbenzene	18.69	91	5353979	44.59 ppb	#	84
71)	1,2-dibromo-3-chloropropan	20.08	75	337569	210.49 ppb		99
72)	1,2,4-trichlorobenzene	21.64	180	284065	34.36 ppb		100
73)	hexachlorobutadiene	21.98	225	267190	27.71 ppb		97
74)	naphthalene	22.07	128	204202	33.06 ppb		98
75)	trans-1,4-Dichloro-2-buten	16.25	89	975150	248.54 ppb		95
76)	1,2,3-trichlorobenzene	22.52	180	71106	27.90 ppb		98
77)	MTBE	5.32	73	3430824	49.54 ppb		93
78)	DIPE	6.15	45	6792158	48.74 ppb		98

(#) = qualifier out of range (m) = manual integration
1012103.D 6210D.M Tue Nov 08 15:09:02 2005

Data File : D:\HPCHEM\1\JAN-OCT2005\1101205\1012103.D Vial: 3
Acq On : 12 Oct 2005 9:26 am Operator: JTF
Sample : lcs1101205a Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 8:51 2005 Quant Results File: 8260SSC.RES

Method : D:\HPCHEM\1\JAN-OCT2005\1101205\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Fri Aug 12 15:45:58 2005
Response via : Initial Calibration



N.C. CERTIFICATION #481
PARADIGM ANALYTICAL LABORATORIES, INC.

Data File : D:\HPCHEM\1\JAN-OCT2005\1101205\1012106.D Vial: 6
Acq On : 12 Oct 2005 10:59 am Operator: JTF
Sample : vblk1101205b Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:24 2005 Quant Results File: 8260SSC.RES

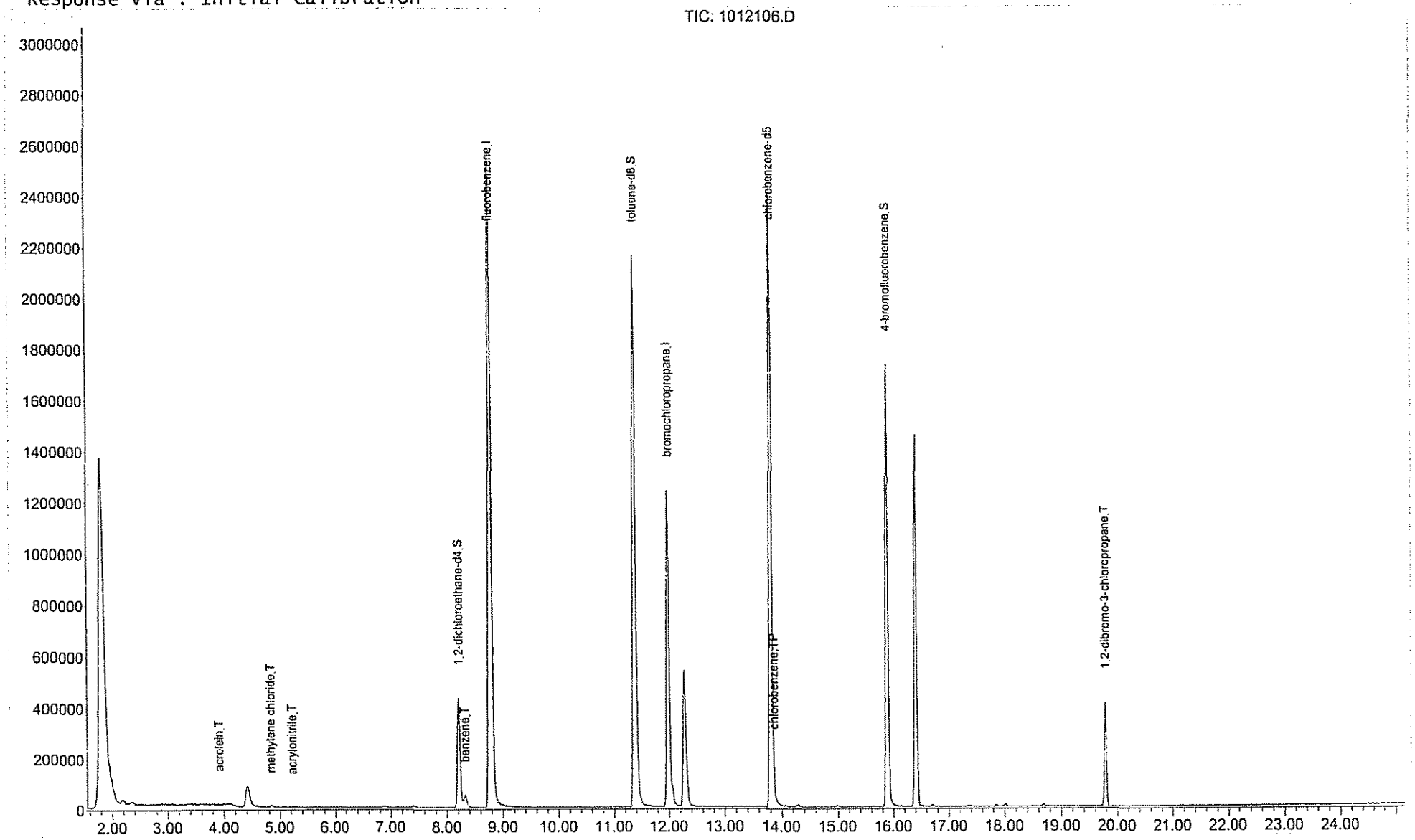
Quant Method : D:\HPCHEM\1\DATA\1101205\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	8.78	96	5209208	50.00 ppb	0.00
39) bromochloropropane	11.98	79	468517	50.00 ppb	-0.02
53) chlorobenzene-d5	13.81	117	2579457	50.00 ppb	0.00
System Monitoring Compounds					
23) 1,2-dichloroethane-d4	8.22	65	530288	53.10 ppb	0.00
Spiked Amount 50.000			Recovery	= 106.20%	
33) toluene-d8	11.37	98	3079143	48.89 ppb	0.00
Spiked Amount 50.000			Recovery	= 97.78%	
49) 4-bromofluorobenzene	15.89	95	1329575	47.61 ppb	0.00
Spiked Amount 50.000			Recovery	= 95.22%	
Target Compounds					Qvalue
5) bromomethane	2.81	94	7948	Below Cal	# 1
8) acrolein	3.92	56	849	0.22 ppb	# 69
10) acetone	4.16	43	4672	Below Cal	# 39
11) methylene chloride	4.83	84	8047	0.25 ppb	# 52
13) acrylonitrile	5.21	53	2364	0.32 ppb	100
24) benzene	8.32	78	84107	0.55 ppb	# 80
46) chlorobenzene	13.87	112	8783	0.11 ppb	# 72
50) bromobenzene	16.15	156	2208	Below Cal	# 46
54) ethylbenzene	14.07	91	10517	Below Cal	# 43
55) m/p-xylene	14.30	106	7580	Below Cal	# 100
58) isopropylbenzene	15.63	105	2862	Below Cal	# 43
59) n-propyl benzene	16.36	91	12771	Below Cal	# 76
60) 2-chlorotoluene	16.38	126	2204	Below Cal	# 1
61) 4-chlorotoluene	16.70	91	15641	Below Cal	# 75
62) 1,3,5-trimethylbenzene	16.72	105	5202	Below Cal	# 25
64) 1,2,4-trimethylbenzene	17.37	105	11726	Below Cal	# 56
65) sec-butylbenzene	17.67	105	3249	Below Cal	# 39
66) 1,3-dichlorobenzene	17.86	146	9364	Below Cal	# 78
67) 4-isopropyltoluene	17.95	119	649	Below Cal	# 40
68) 1,4-dichlorobenzene	18.01	146	11663	Below Cal	# 83
69) 1,2-dichlorobenzene	18.69	146	5744	Below Cal	# 69
70) n-butylbenzene	18.70	91	8332	Below Cal	# 43
71) 1,2-dibromo-3-chloropropan	19.79	75	19049	12.30 ppb	# 2
72) 1,2,4-trichlorobenzene	21.63	180	667	Below Cal	# 1
74) naphthalene	22.08	128	2690	Below Cal	# 73

(#) = qualifier out of range (m) = manual integration
1012106.D 6210D.M Tue Nov 08 15:09:12 2005

Data File : D:\HPCHEM\1\JAN-OCT2005\1101205\1012106.D Vial: 6
Acq On : 12 Oct 2005 10:59 am Operator: JTF
Sample : vblk1101205b Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 10:24 2005 Quant Results File: 8260SSC.RES

Method : D:\HPCHEM\1\JAN-OCT2005\1101205\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Fri Aug 12 15:45:58 2005
Response via : Initial Calibration



1012106.D 6210D.M Tue Nov 08 15:09:13 2005

N.C. CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC.

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\JAN-OCT2005\1101205\1012108.D Vial: 8
Acq On : 12 Oct 2005 12:01 pm Operator: JTF
Sample : g204-493-15b Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 11:27 2005 Quant Results File: 8260SSC.RES

Quant Method : D:\HPCHEM\1\DATA\1101205\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

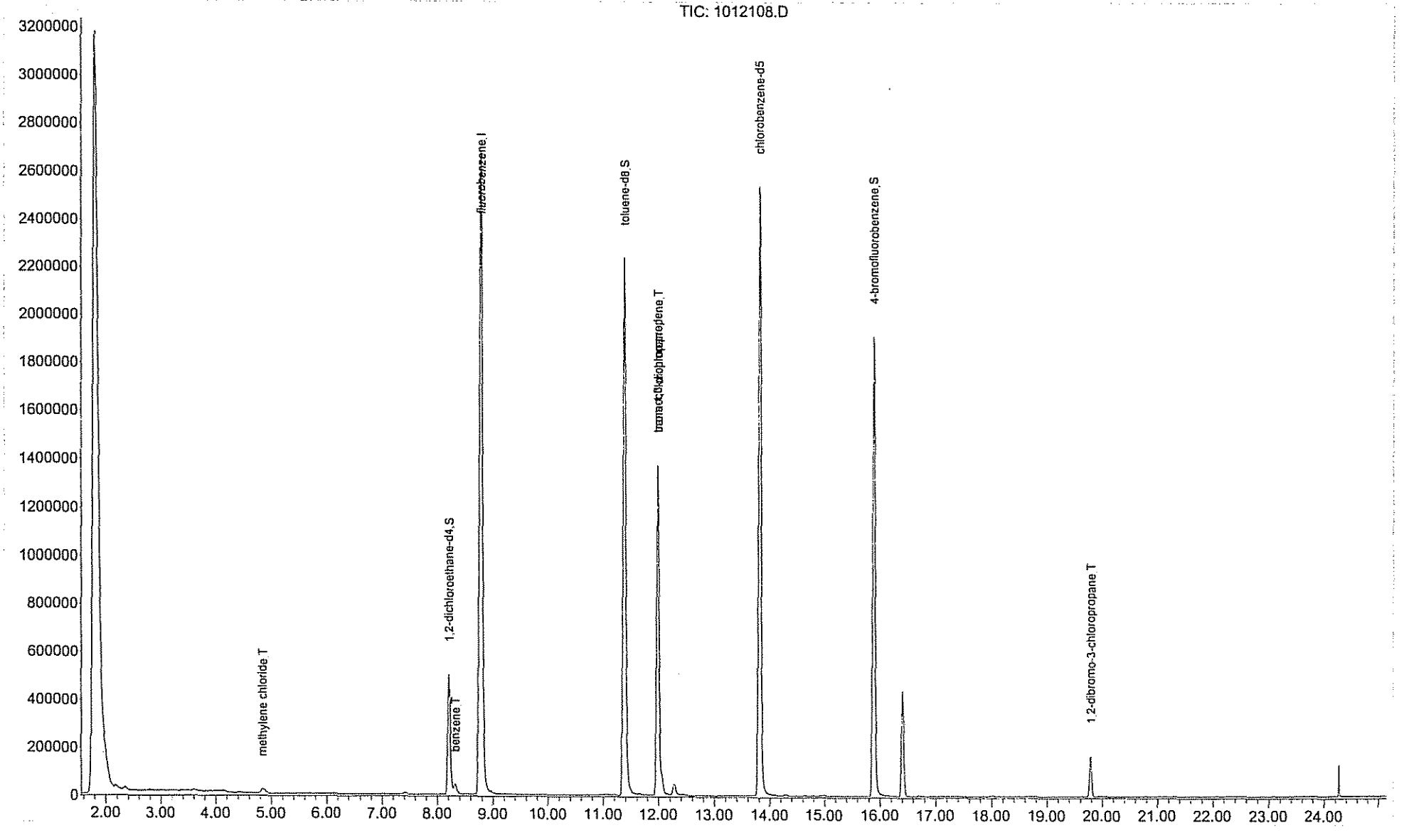
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	8.78	96	5349302	50.00 ppb	0.00
39) bromochloropropane	11.99	79	506946	50.00 ppb	-0.01
53) chlorobenzene-d5	13.81	117	2751139	50.00 ppb	-0.01
System Monitoring Compounds					
23) 1,2-dichloroethane-d4	8.21	65	604981	58.99 ppb	0.00
Spiked Amount 50.000			Recovery	= 117.98%	
33) toluene-d8	11.38	98	3195793	49.41 ppb	0.00
Spiked Amount 50.000			Recovery	= 98.82%	
49) 4-bromofluorobenzene	15.88	95	1434119	47.46 ppb	-0.01
Spiked Amount 50.000			Recovery	= 94.92%	

Target Compounds						Qvalue
5) bromomethane	2.80	94	2173	Below Cal		80
10) acetone	4.15	43	6356	Below Cal	#	39
11) methylene chloride	4.83	84	25740	0.78 ppb	#	79
24) benzene	8.33	78	70070	0.44 ppb	#	83
36) trans-1,3-dichloropropene	12.00	75	20435	0.61 ppb	#	49
54) ethylbenzene	14.09	91	6617	Below Cal	#	34
55) m/p-xylene	14.28	106	4343	Below Cal	#	100
59) n-propyl benzene	16.38	91	6657	Below Cal	#	44
60) 2-chlorotoluene	16.41	126	1633	Below Cal	#	64
61) 4-chlorotoluene	16.70	91	8760	Below Cal	#	63
62) 1,3,5-trimethylbenzene	16.68	105	595	Below Cal	#	25
64) 1,2,4-trimethylbenzene	17.36	105	6351	Below Cal	#	17
65) sec-butylbenzene	17.68	105	683	Below Cal	#	39
66) 1,3-dichlorobenzene	17.86	146	3669	Below Cal	#	73
68) 1,4-dichlorobenzene	18.01	146	7813	Below Cal	#	63
69) 1,2-dichlorobenzene	18.68	146	2447	Below Cal	#	25
70) n-butylbenzene	18.69	91	2989	Below Cal	#	43
71) 1,2-dibromo-3-chloropropan	19.79	75	7561	4.58 ppb	#	1
74) naphthalene	22.08	128	602	Below Cal	#	73

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\JAN-OCT2005\1101205\1012108.D Vial: 8
Acq On : 12 Oct 2005 12:01 pm Operator: JTF
Sample : g204-493-15b Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 11:27 2005 Quant Results File: 8260SSC.RES

Method : D:\HPCHEM\1\JAN-OCT2005\1101205\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Fri Aug 12 15:45:58 2005
Response via : Initial Calibration



1012108.D 6210D.M Tue Nov 08 15:09:34 2005

N.C. CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC.

Quantification Report (Not Reviewed)

Data File : D:\HPCHEM\1\JAN-OCT2005\1101205\1012122.D Vial: 22
Acq On : 12 Oct 2005 7:18 pm Operator: JTF
Sample : g204-493-15b ms Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 18:43 2005 Quant Results File: 8260SSC.RES

Quant Method : D:\HPCHEM\1\DATA\1101205\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) fluorobenzene	8.79	96	4088209	50.00	ppb		0.01
39) bromochloropropane	12.00	79	399732	50.00	ppb		0.00
53) chlorobenzene-d5	13.83	117	2165692	50.00	ppb		0.00
System Monitoring Compounds							
23) 1,2-dichloroethane-d4	8.22	65	461691	58.91	ppb		0.00
Spiked Amount 50.000			Recovery	=	117.82%		
33) toluene-d8	11.39	98	2510453	50.79	ppb		0.00
Spiked Amount 50.000			Recovery	=	101.58%		
49) 4-bromofluorobenzene	15.90	95	1220320	51.21	ppb		0.00
Spiked Amount 50.000			Recovery	=	102.42%		
Target Compounds							Qvalue
2) dichlorodifluoromethane	2.01	85	1623256	54.56	ppb		97
3) chloromethane	2.27	50	1808221	47.72	ppb		98
4) vinyl chloride	2.37	62	2107860	47.02	ppb		97
5) bromomethane	2.78	94	683191	62.48	ppb		96
6) chloroethane	2.92	64	1088663	76.45	ppb		96
7) trichlorofluoromethane	3.29	101	1881952	58.80	ppb		98
8) acrolein	3.89	56	1451704	469.30	ppb		93
9) 1,1-dichloroethene	4.07	96	1363115	49.08	ppb		98
10) acetone	4.14	43	901268	55.21	ppb		96
11) methylene chloride	4.85	84	1213703	47.87	ppb		94
12) trans-1,2-dichloroethene	5.30	96	1553990	48.62	ppb		95
13) acrylonitrile	5.23	53	2683172	466.93	ppb		97
14) 1,1-dichloroethane	5.97	63	2947523	49.76	ppb		99
15) 2,2-dichloropropane	6.91	77	1993633	52.96	ppb		96
16) cis-1,2-dichloroethene	6.91	96	1484542	47.86	ppb		97
17) 2-butanone	6.94	43	1147297	48.41	ppb		96
18) bromochloromethane	7.28	128	485015	51.53	ppb		95
19) chloroform	7.43	83	2153007	52.11	ppb		97
20) 1,1,1-trichloroethane	7.73	97	2096036	54.44	ppb		98
21) carbon tetrachloride	8.00	117	1544182	56.51	ppb		98
22) 1,1-dichloropropene	8.00	75	2007625	49.93	ppb		99
24) benzene	8.34	78	5591971	46.39	ppb	#	83
25) 1,2-dichloroethane	8.34	62	1421090	56.78	ppb	#	92
26) trichloroethene	9.39	95	1535226	49.56	ppb		97
27) 1,2-dichloropropane	9.72	63	1462286	48.13	ppb		91
28) dibromomethane	9.91	93	528382	50.04	ppb		93
29) bromodichloromethane	10.19	83	1379163	53.20	ppb		97
30) 2-chloroethyl vinyl ether	10.71	106	892720	43.65	ppb		95
31) cis-1,3-dichloropropene	10.93	75	1680494	48.52	ppb		95
32) 4-methyl-2-pentanone	11.20	43	2091148	49.91	ppb		99
34) toluene	11.50	92	4831459	49.32	ppb	#	34
35) Iodomethane	4.29	142	993895	62.85	ppb		91
36) trans-1,3-dichloropropene	11.86	75	1318074	51.67	ppb		98
37) Vinyl acetate	6.07	86	409749	166.31	ppb		97
38) Carbon disulfide	4.39	76	4585146	47.41	ppb		100
40) 1,1,2-trichloroethane	12.15	83	643790	48.05	ppb		97
41) tetrachloroethene	12.43	166	1425287	52.91	ppb		97
42) 1,3-dichloropropane	12.44	76	1365987	46.99	ppb		94
43) 2-hexanone	12.61	43	1643377	47.22	ppb		95
44) dibromochloromethane	12.82	129	798441	50.92	ppb		97
45) 1,2-dibromoethane	13.00	107	672325	48.14	ppb		100
46) chlorobenzene	13.88	112	3113760	46.46	ppb		97
47) 1,1,1,2-tetrachloroethane	14.01	131	966558	52.71	ppb		98

(#) = qualifier out of range (m) = manual integration
1012122.D 6210D.M Tue Nov 08 15:09:48 2005

Data File : D:\HPCHEM\1\JAN-OCT2005\1101205\1012122.D Vial: 22
Acq On : 12 Oct 2005 7:18 pm Operator: JTF
Sample : g204-493-15b ms Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 18:43 2005 Quant Results File: 8260SSC.RES

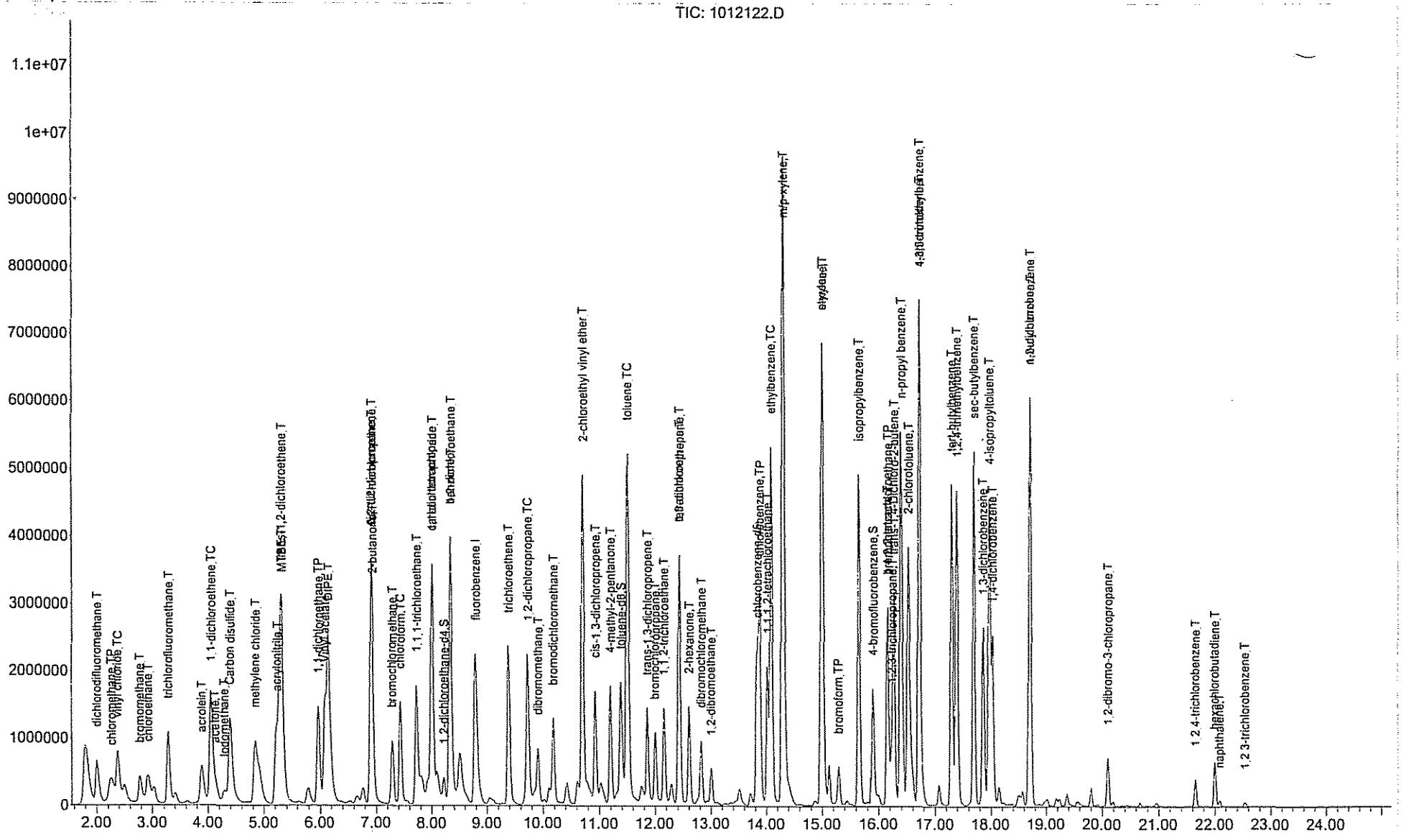
Quant Method : D:\HPCHEM\1\DATA\1101205\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
48)	bromoform	15.30	173	451195	50.13	ppb		96
50)	bromobenzene	16.16	156	1073229	53.20	ppb		93
51)	1,1,2,2-tetrachloroethane	16.17	83	795704	53.15	ppb		100
52)	1,2,3-trichloropropane	16.23	110	204617	50.15	ppb	#	63
54)	ethylbenzene	14.08	91	7713385	50.18	ppb	#	78
55)	m/p-xylene	14.30	106	5714392	100.39	ppb	#	100
56)	styrene	15.01	104	3171765	46.39	ppb		100
57)	o-xylene	14.99	106	2529308	46.89	ppb	#	73
58)	isopropylbenzene	15.65	105	6151607	49.39	ppb	#	88
59)	n-propyl benzene	16.39	91	8396780	51.86	ppb	#	80
60)	2-chlorotoluene	16.52	126	1168658	51.87	ppb		98
61)	4-chlorotoluene	16.72	91	4675789	53.11	ppb		99
62)	1,3,5-trimethylbenzene	16.72	105	4898641	51.94	ppb		94
63)	tert-butylbenzene	17.29	119	3841887	51.89	ppb		89
64)	1,2,4-trimethylbenzene	17.39	105	5430430	50.25	ppb	#	75
65)	sec-butylbenzene	17.69	105	6719134	50.20	ppb	#	70
66)	1,3-dichlorobenzene	17.86	146	2082021	52.35	ppb		98
67)	4-isopropyltoluene	17.97	119	4742838	51.65	ppb	#	84
68)	1,4-dichlorobenzene	18.03	146	1962956	52.33	ppb		99
69)	1,2-dichlorobenzene	18.70	146	1633733	53.46	ppb		100
70)	n-butylbenzene	18.72	91	4901082	50.50	ppb	#	85
71)	1,2-dibromo-3-chloropropan	20.10	75	298648	229.71	ppb		98
72)	1,2,4-trichlorobenzene	21.65	180	240763	36.10	ppb		100
73)	hexachlorobutadiene	22.00	225	272712	36.09	ppb		92
74)	naphthalene	22.08	128	136631	27.15	ppb	#	94
75)	trans-1,4-Dichloro-2-buten	16.27	89	783125	246.22	ppb		87
76)	1,2,3-trichlorobenzene	22.54	180	47977	22.68	ppb		93
77)	MTBE	5.33	73	2648338	47.18	ppb		92
78)	DIPE	6.14	45	5210675	46.12	ppb		95

(#) = qualifier out of range (m) = manual integration
1012122.D 6210D.M Tue Nov 08 15:09:48 2005

Data File : D:\HPCHEM\1\JAN-OCT2005\1101205\1012122.D Vial: 22
Acq On : 12 Oct 2005 7:18 pm Operator: JTF
Sample : g204-493-15b ms Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 18:43 2005 Quant Results File: 8260SSC.RES

Method : D:\HPCHEM\1\JAN-OCT2005\1101205\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Fri Aug 12 15:45:58 2005
Response via : Initial Calibration



1012122.D 6210D.M Tue Nov 08 15:09:51 2005 Page 3

Quantification Report (Not Reviewed)

Data File : D:\HPCHEM\1\JAN-OCT2005\1101205\1012123.D Vial: 23
Acq On : 12 Oct 2005 7:50 pm Operator: JTF
Sample : g204-493-15c msd Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 19:15 2005 Quant Results File: 8260SSC.RES

Quant Method : D:\HPCHEM\1\DATA\1101205\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) fluorobenzene	8.78	96	4540375	50.00	ppb		0.00
39) bromochloropropane	11.98	79	419640	50.00	ppb		-0.02
53) chlorobenzene-d5	13.81	117	2348711	50.00	ppb		0.00
System Monitoring Compounds							
23) 1,2-dichloroethane-d4	8.21	65	468138	53.78	ppb		0.00
Spiked Amount 50.000			Recovery	=	107.56%		
33) toluene-d8	11.37	98	2804248	51.08	ppb		0.00
Spiked Amount 50.000			Recovery	=	102.16%		
49) 4-bromofluorobenzene	15.88	95	1327206	53.06	ppb		-0.02
Spiked Amount 50.000			Recovery	=	106.12%		
Target Compounds							Qvalue
2) dichlorodifluoromethane	2.02	85	1884476	57.03	ppb		97
3) chloromethane	2.27	50	2291156	54.45	ppb		98
4) vinyl chloride	2.38	62	2724638	54.73	ppb		98
5) bromomethane	2.78	94	924546	78.08	ppb		100
6) chloroethane	2.93	64	1335632	85.67	ppb		95
7) trichlorofluoromethane	3.29	101	2084180	58.64	ppb		97
8) acrolein	3.89	56	1705725	496.51	ppb		97
9) 1,1-dichloroethene	4.05	96	1493068	48.41	ppb		97
10) acetone	4.13	43	888342	48.96	ppb		98
11) methylene chloride	4.84	84	1289253	45.78	ppb		99
12) trans-1,2-dichloroethene	5.29	96	1635714	46.08	ppb		97
13) acrylonitrile	5.22	53	2998676	469.87	ppb		100
14) 1,1-dichloroethane	5.96	63	3073838	46.73	ppb		99
15) 2,2-dichloropropane	6.91	77	2077761	49.69	ppb		97
16) cis-1,2-dichloroethene	6.91	96	1607419	46.66	ppb		99
17) 2-butanone	6.94	43	1158599	44.02	ppb		97
18) bromochloromethane	7.28	128	516168	49.38	ppb		95
19) chloroform	7.43	83	2255142	49.14	ppb		99
20) 1,1,1-trichloroethane	7.72	97	2165222	50.64	ppb		98
21) carbon tetrachloride	8.00	117	1558512	51.35	ppb		99
22) 1,1-dichloropropene	8.00	75	2114566	47.35	ppb		99
24) benzene	8.32	78	6109449	45.64	ppb	#	84
25) 1,2-dichloroethane	8.32	62	1419803	51.08	ppb		94
26) trichloroethene	9.38	95	1644818	47.81	ppb		96
27) 1,2-dichloropropane	9.71	63	1570768	46.55	ppb	#	90
28) dibromomethane	9.90	93	531729	45.35	ppb	#	86
29) bromodichloromethane	10.17	83	1420740	49.34	ppb		98
30) 2-chloroethyl vinyl ether	10.70	106	968300	42.75	ppb		97
31) cis-1,3-dichloropropene	10.92	75	1800263	46.80	ppb		98
32) 4-methyl-2-pentanone	11.19	43	1977016	42.49	ppb		97
34) toluene	11.48	92	5143455	47.27	ppb	#	35
35) Iodomethane	4.30	142	748483	45.46	ppb		95
36) trans-1,3-dichloropropene	11.85	75	1358378	47.95	ppb		99
37) Vinyl acetate	6.08	86	420690	151.03	ppb		89
38) Carbon disulfide	4.40	76	4949427	46.08	ppb		100
40) 1,1,2-trichloroethane	12.14	83	657805	46.77	ppb		95
41) tetrachloroethene	12.41	166	1502293	53.15	ppb		99
42) 1,3-dichloropropane	12.43	76	1414231	46.34	ppb		99
43) 2-hexanone	12.59	43	1614784	44.20	ppb		98
44) dibromochloromethane	12.81	129	797182	48.42	ppb		99
45) 1,2-dibromoethane	12.99	107	668385	45.59	ppb		97
46) chlorobenzene	13.86	112	3261719	46.36	ppb		99
47) 1,1,1,2-tetrachloroethane	14.00	131	1007556	52.30	ppb		98

(#) = qualifier out of range (m) = manual integration
1012123.D 6210D.M Tue Nov 08 15:10:00 2005

Data File : D:\HPCHEM\1\JAN-OCT2005\1101205\1012123.D Vial: 23
Acq On : 12 Oct 2005 7:50 pm Operator: JTF
Sample : g204-493-15c msd Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 19:15 2005 Quant Results File: 8260SSC.RES

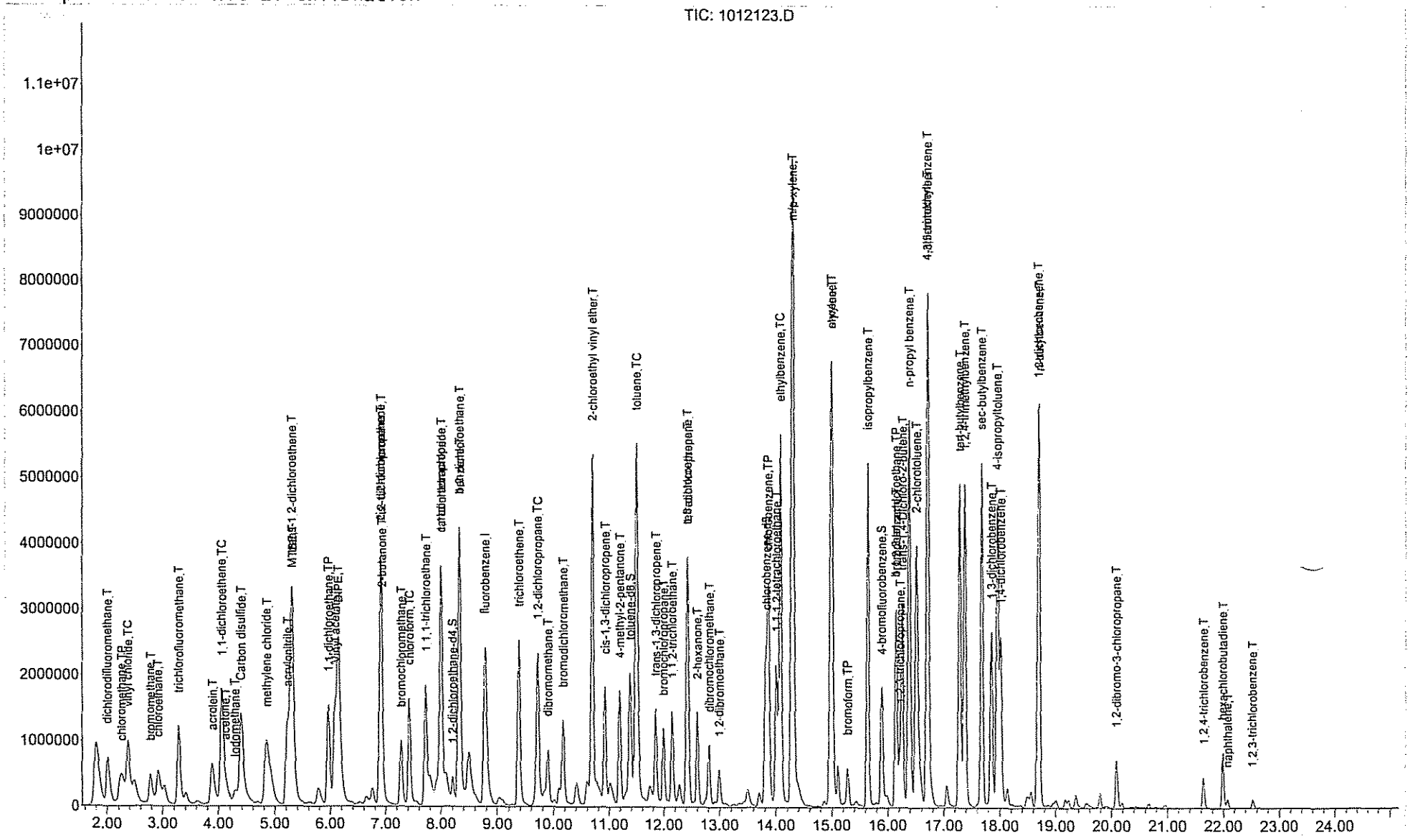
Quant Method : D:\HPCHEM\1\DATA\1101205\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
48)	bromoform	15.29	173	449348	47.56 ppb		98
50)	bromobenzene	16.14	156	1125388	53.14 ppb		95
51)	1,1,2,2-tetrachloroethane	16.15	83	777629	49.09 ppb		98
52)	1,2,3-trichloropropane	16.21	110	194134	45.33 ppb	#	65
54)	ethylbenzene	14.07	91	8193028	49.11 ppb	#	78
55)	m/p-xylene	14.29	106	6049600	97.74 ppb	#	100
56)	styrene	15.00	104	3339252	45.04 ppb		100
57)	o-xylene	14.98	106	2655918	45.40 ppb		75
58)	isopropylbenzene	15.64	105	6484942	47.99 ppb	#	88
59)	n-propyl benzene	16.37	91	8874831	50.47 ppb	#	80
60)	2-chlorotoluene	16.50	126	1222547	49.89 ppb		94
61)	4-chlorotoluene	16.70	91	4919797	51.37 ppb		98
62)	1,3,5-trimethylbenzene	16.70	105	5170510	50.41 ppb		94
63)	tert-butylbenzene	17.28	119	4096940	50.95 ppb		86
64)	1,2,4-trimethylbenzene	17.37	105	5689882	48.51 ppb	#	75
65)	sec-butylbenzene	17.68	105	7040621	48.46 ppb	#	71
66)	1,3-dichlorobenzene	17.85	146	2133935	49.32 ppb		98
67)	4-isopropyltoluene	17.95	119	4922959	49.38 ppb	#	84
68)	1,4-dichlorobenzene	18.02	146	2016524	49.39 ppb		98
69)	1,2-dichlorobenzene	18.68	146	1668722	50.11 ppb		98
70)	n-butylbenzene	18.70	91	5112643	48.53 ppb	#	85
71)	1,2-dibromo-3-chloropropan	20.08	75	310142	219.96 ppb		95
72)	1,2,4-trichlorobenzene	21.63	180	291486	40.75 ppb		97
73)	hexachlorobutadiene	21.98	225	341644	42.41 ppb		98
74)	naphthalene	22.07	128	200461	37.00 ppb		99
75)	trans-1,4-Dichloro-2-buten	16.26	89	765951	222.05 ppb		86
76)	1,2,3-trichlorobenzene	22.51	180	83573	38.39 ppb		85
77)	MTBE	5.32	73	2742830	45.05 ppb	#	90
78)	DIPE	6.14	45	5635873	46.00 ppb		97

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\JAN-OCT2005\1101205\1012123.D Vial: 23
Acq On : 12 Oct 2005 7:50 pm Operator: JTF
Sample : g204-493-15c msd Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 19:15 2005 Quant Results File: 8260SSC.RES

Method : D:\HPCHEM\1\JAN-OCT2005\1101205\6210D.M (RTE Integrator)
Title : water for 8260/8240/624/App.II/App.IX
Last Update : Fri Aug 12 15:45:58 2005
Response via : Initial Calibration



1012123.D 6210D.M Tue Nov 08 15:10:03 2005

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Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\JAN-OCT2005\1101205\1012128.D Vial: 28
Acq On : 12 Oct 2005 10:26 pm Operator: JTF
Sample : lcs1101205d Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 21:51 2005 Quant Results File: 8260SSC.RES

Quant Method : D:\HPCHEM\1\DATA\1101205\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) fluorobenzene	8.78	96	4499924	50.00	ppb	0.00
39) bromochloropropane	11.99	79	397814	50.00	ppb	-0.01
53) chlorobenzene-d5	13.82	117	2227379	50.00	ppb	0.00
System Monitoring Compounds						
23) 1,2-dichloroethane-d4	8.21	65	424829	49.24	ppb	0.00
Spiked Amount 50.000			Recovery	=	98.48%	
33) toluene-d8	11.38	98	2711092	49.83	ppb	0.00
Spiked Amount 50.000			Recovery	=	99.66%	
49) 4-bromofluorobenzene	15.88	95	1199292	50.57	ppb	-0.01
Spiked Amount 50.000			Recovery	=	101.14%	
Target Compounds						Qvalue
2) dichlorodifluoromethane	2.01	85	1888237	57.66	ppb	98
3) chloromethane	2.28	50	2427535	58.21	ppb	100
4) vinyl chloride	2.38	62	2836920	57.50	ppb	99
5) bromomethane	2.78	94	980393	84.16	ppb	94
6) chloroethane	2.93	64	1403834	91.56	ppb	96
7) trichlorofluoromethane	3.29	101	2128832	60.43	ppb	98
8) acrolein	3.89	56	1435025	421.47	ppb	95
9) 1,1-dichloroethene	4.07	96	1538515	50.33	ppb	99
10) acetone	4.14	43	762980	42.38	ppb	97
11) methylene chloride	4.84	84	1287603	46.13	ppb	95
12) trans-1,2-dichloroethene	5.30	96	1735876	49.34	ppb	98
13) acrylonitrile	5.23	53	2659304	420.44	ppb	98
14) 1,1-dichloroethane	5.97	63	3187891	48.89	ppb	99
15) 2,2-dichloropropane	6.90	77	2089936	50.43	ppb	92
16) cis-1,2-dichloroethene	6.90	96	1604473	46.99	ppb	98
17) 2-butanone	6.93	43	955336	36.62	ppb	97
18) bromochloromethane	7.28	128	480415	46.37	ppb	91
19) chloroform	7.43	83	2235235	49.15	ppb	98
20) 1,1,1-trichloroethane	7.73	97	2190986	51.70	ppb	99
21) carbon tetrachloride	7.99	117	1602486	53.28	ppb	95
22) 1,1-dichloropropene	8.00	75	2172450	49.08	ppb	99
24) benzene	8.33	78	6228898	46.95	ppb #	83
25) 1,2-dichloroethane	8.34	62	1300553	47.21	ppb	97
26) trichloroethene	9.37	95	1683356	49.37	ppb	98
27) 1,2-dichloropropane	9.71	63	1548003	46.29	ppb #	90
28) dibromomethane	9.90	93	501862	43.18	ppb	88
29) bromodichloromethane	10.17	83	1362827	47.76	ppb	100
30) 2-chloroethyl vinyl ether	10.70	106	885891	39.88	ppb	97
31) cis-1,3-dichloropropene	10.91	75	1695809	44.48	ppb	99
32) 4-methyl-2-pentanone	11.19	43	1676535	36.35	ppb	97
34) toluene	11.49	92	5147940	47.74	ppb #	33
35) Iodomethane	4.30	142	730426	44.89	ppb	95
36) trans-1,3-dichloropropene	11.85	75	1238562	44.11	ppb	97
37) Vinyl acetate	6.08	86	325414	109.98	ppb	91
38) Carbon disulfide	4.40	76	5213548	48.97	ppb	100
40) 1,1,2-trichloroethane	12.14	83	609212	45.69	ppb	98
41) tetrachloroethene	12.41	166	1484794	55.61	ppb	99
42) 1,3-dichloropropane	12.42	76	1298296	44.88	ppb	99
43) 2-hexanone	12.60	43	1305052	37.68	ppb	99
44) dibromochloromethane	12.81	129	719422	46.10	ppb	97
45) 1,2-dibromoethane	12.99	107	622529	44.79	ppb	100
46) chlorobenzene	13.87	112	3169845	47.52	ppb	98
47) 1,1,1,2-tetrachloroethane	14.00	131	968435	53.10	ppb	97

(#) = qualifier out of range (m) = manual integration
1012128.D 8260SSC.M Tue Nov 08 15:15:21 2005

Data File : D:\HPCHEM\1\JAN-OCT2005\1101205\1012128.D Vial: 28
Acq On : 12 Oct 2005 10:26 pm Operator: JTF
Sample : lcs1101205d Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 21:51 2005 Quant Results File: 8260SSC.RES

Quant Method : D:\HPCHEM\1\DATA\1101205\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

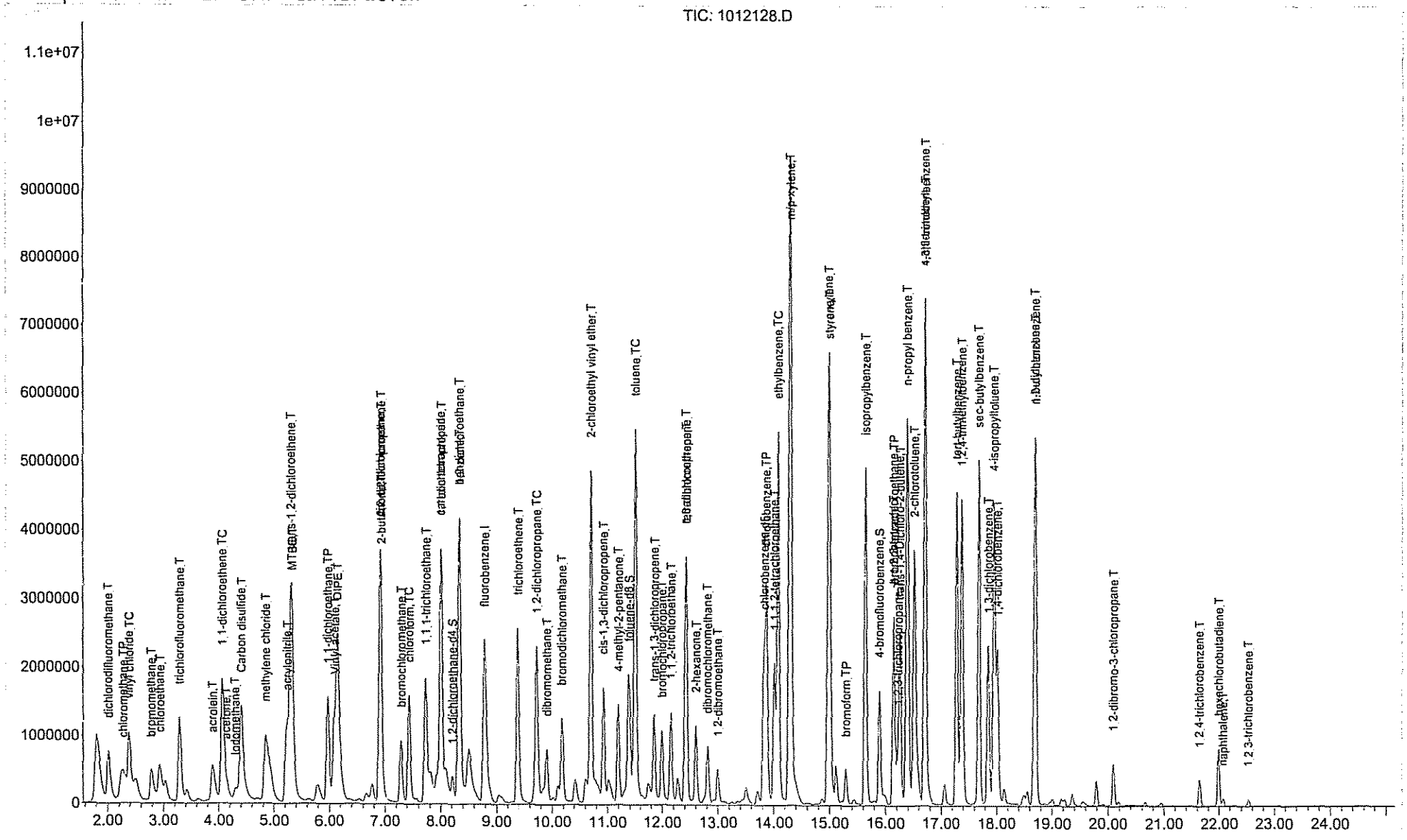
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
48)	bromoform	15.28	173	394299	44.02 ppb		96
50)	bromobenzene	16.14	156	1028818	51.04 ppb		94
51)	1,1,2,2-tetrachloroethane	16.15	83	668224	43.97 ppb		99
52)	1,2,3-trichloropropane	16.21	110	174168	42.90 ppb	#	58
54)	ethylbenzene	14.07	91	8057789	50.99 ppb	#	78
55)	m/p-xylene	14.29	106	5918009	101.17 ppb	#	100
56)	styrene	15.00	104	3126046	44.46 ppb		100
57)	o-xylene	14.97	106	2542327	45.83 ppb	#	73
58)	isopropylbenzene	15.64	105	6361706	49.67 ppb	#	88
59)	n-propyl benzene	16.38	91	8412678	50.45 ppb	#	80
60)	2-chlorotoluene	16.50	126	1150685	49.48 ppb		97
61)	4-chlorotoluene	16.70	91	4474489	49.05 ppb		98
62)	1,3,5-trimethylbenzene	16.70	105	4808779	49.33 ppb		94
63)	tert-butylbenzene	17.28	119	3886438	50.97 ppb		87
64)	1,2,4-trimethylbenzene	17.37	105	5159796	46.34 ppb	#	75
65)	sec-butylbenzene	17.67	105	6711879	48.72 ppb	#	70
66)	1,3-dichlorobenzene	17.85	146	1882412	45.67 ppb		98
67)	4-isopropyltoluene	17.95	119	4528168	47.85 ppb	#	83
68)	1,4-dichlorobenzene	18.01	146	1797475	46.23 ppb		98
69)	1,2-dichlorobenzene	18.68	146	1415214	44.39 ppb		99
70)	n-butylbenzene	18.70	91	4528248	45.25 ppb	#	84
71)	1,2-dibromo-3-chloropropan	20.09	75	248830	186.09 ppb		99
72)	1,2,4-trichlorobenzene	21.63	180	237289	34.43 ppb		98
73)	hexachlorobutadiene	21.98	225	340966	44.87 ppb		100
74)	naphthalene	22.06	128	163674	31.75 ppb		97
75)	trans-1,4-Dichloro-2-buten	16.26	89	642951	196.55 ppb		93
76)	1,2,3-trichlorobenzene	22.53	180	67703	32.32 ppb		99
77)	MTBE	5.33	73	2472626	42.83 ppb		91
78)	DIPE	6.14	45	5412370	46.58 ppb		96

(#) = qualifier out of range (m) = manual integration
1012128.D 8260SSC.M Tue Nov 08 15:15:21 2005

Quantification Report

Data File : D:\HPCHEM\1\JAN-OCT2005\1101205\1012128.D Vial: 28
Acq On : 12 Oct 2005 10:26 pm Operator: JTF
Sample : lcs1101205d Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 21:51 2005 Quant Results File: 8260SSC.RES

Method : D:\HPCHEM\1\JAN-OCT2005\1101205\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration



1012128.D 8260SSC.M Tue Nov 08 15:15:24 2005

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PARADIGM ANALYTICAL LABORATORIES, INC.

N C CERTIFICATION #481

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\JAN-OCT2005\1101205\1012130.D Vial: 30
Acq On : 12 Oct 2005 11:29 pm Operator: JTF
Sample : vblk1101205e Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 22:54 2005 Quant Results File: 8260SSC.RES

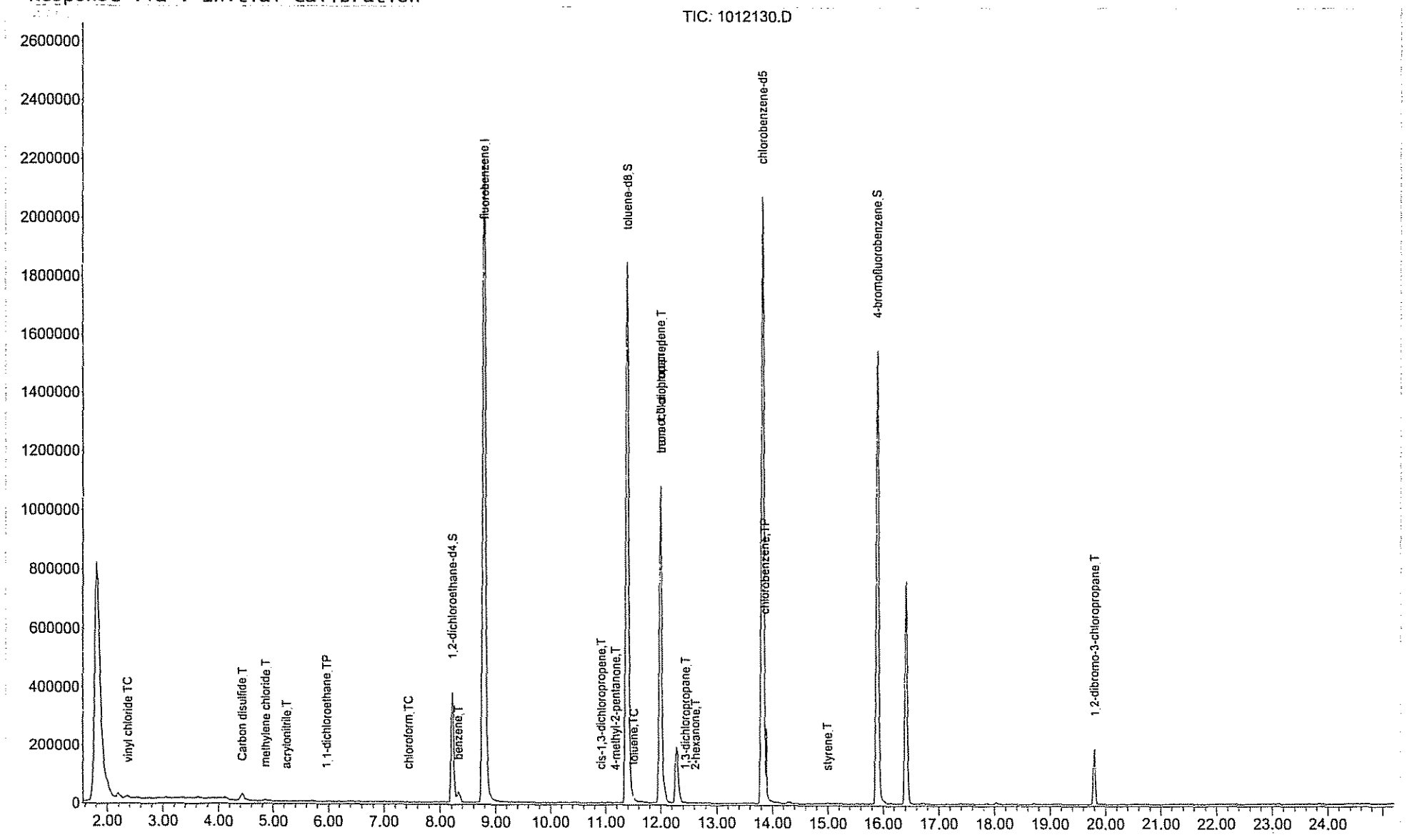
Quant Method : D:\HPCHEM\1\DATA\1101205\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	8.78	96	4473694	50.00 ppb	0.00
39) bromochloropropane	11.99	79	393100	50.00 ppb	-0.01
53) chlorobenzene-d5	13.81	117	2220048	50.00 ppb	-0.01
System Monitoring Compounds					
23) 1,2-dichloroethane-d4	8.21	65	469342	54.72 ppb	0.00
Spiked Amount 50.000			Recovery	= 109.44%	
33) toluene-d8	11.38	98	2638779	48.79 ppb	0.00
Spiked Amount 50.000			Recovery	= 97.58%	
49) 4-bromofluorobenzene	15.88	95	1145872	48.90 ppb	-0.01
Spiked Amount 50.000			Recovery	= 97.80%	
Target Compounds					Qvalue
4) vinyl chloride	2.36	62	1611	0.03 ppb #	44
5) bromomethane	2.81	94	2783	Below Cal #	1
10) acetone	4.15	43	1836	Below Cal #	39
11) methylene chloride	4.85	84	4545	0.16 ppb #	56
13) acrylonitrile	5.25	53	631	0.10 ppb #	10
14) 1,1-dichloroethane	5.96	63	769	0.01 ppb #	53
19) chloroform	7.44	83	1282	0.03 ppb #	18
24) benzene	8.33	78	61678	0.47 ppb	92
31) cis-1,3-dichloropropene	10.92	75	1451	0.04 ppb #	54
32) 4-methyl-2-pentanone	11.17	43	2691	0.06 ppb #	41
34) toluene	11.50	92	5738	0.05 ppb	99
36) trans-1,3-dichloropropene	11.99	75	15430	0.55 ppb #	49
38) Carbon disulfide	4.41	76	632	0.01 ppb #	79
42) 1,3-dichloropropane	12.43	76	980	0.03 ppb #	44
43) 2-hexanone	12.61	43	1036	0.03 ppb #	28
46) chlorobenzene	13.86	112	4054	0.06 ppb #	51
50) bromobenzene	16.14	156	2061	Below Cal	92
54) ethylbenzene	14.06	91	6694	Below Cal #	34
55) m/p-xylene	14.29	106	5273	Below Cal #	100
56) styrene	14.99	104	3733	0.05 ppb	100
58) isopropylbenzene	15.63	105	684	Below Cal #	43
59) n-propyl benzene	16.38	91	9129	Below Cal #	44
60) 2-chlorotoluene	16.41	126	3416	Below Cal #	66
61) 4-chlorotoluene	16.71	91	10688	Below Cal #	49
62) 1,3,5-trimethylbenzene	16.71	105	1505	Below Cal #	25
64) 1,2,4-trimethylbenzene	17.37	105	7035	Below Cal #	17
65) sec-butylbenzene	17.68	105	1381	Below Cal #	39
66) 1,3-dichlorobenzene	17.85	146	5894	Below Cal #	72
68) 1,4-dichlorobenzene	18.02	146	7015	Below Cal #	82
69) 1,2-dichlorobenzene	18.69	146	2704	Below Cal #	63
70) n-butylbenzene	18.70	91	5560	Below Cal #	43
71) 1,2-dibromo-3-chloropropan	19.78	75	7973	~~5.98~~ ppb #	1
72) 1,2,4-trichlorobenzene	21.65	180	661	Below Cal #	1
74) naphthalene	22.07	128	1761	Below Cal #	73

(#) = qualifier out of range (m) = manual integration
1012130.D 8260SSC.M Tue Nov 08 15:15:30 2005

Data File : D:\HPCHEM\1\JAN-OCT2005\1101205\1012130.D Vial: 30
Acq On : 12 Oct 2005 11:29 pm Operator: JTF
Sample : vblk1101205e Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 22:54 2005 Quant Results File: 8260SSC.RES

Method : D:\HPCHEM\1\JAN-OCT2005\1101205\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration



N.C. CERTIFICATION #481
PARADIGM ANALYTICAL LABORATORIES, INC.

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\JAN-OCT2005\1101205\1012132.D Vial: 32
Acq On : 13 Oct 2005 12:31 am Operator: JTF
Sample : g106-559-2a Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 23:56 2005 Quant Results File: 8260SSC.RES

Quant Method : D:\HPCHEM\1\DATA\1101205\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

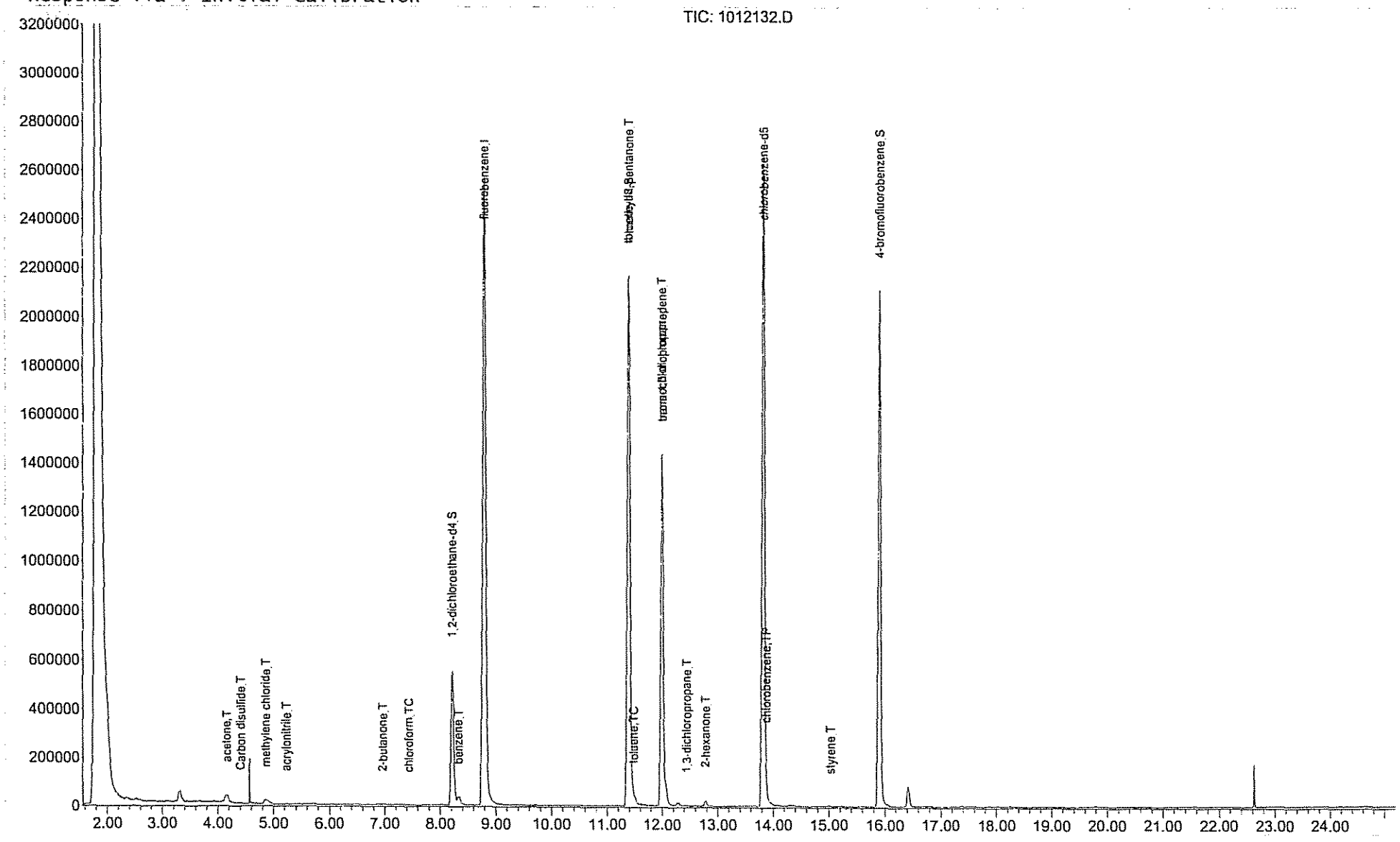
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) fluorobenzene	8.78	96	5118457	50.00 ppb	0.00
39) bromochloropropane	11.98	79	531880	50.00 ppb	-0.02
53) chlorobenzene-d5	13.81	117	2815439	50.00 ppb	0.00
System Monitoring Compounds					
23) 1,2-dichloroethane-d4	8.22	65	696245	70.95 ppb	0.00
Spiked Amount 50.000			Recovery	= 141.90%	
33) toluene-d8	11.37	98	3096342	50.04 ppb	0.00
Spiked Amount 50.000			Recovery	= 100.08%	
49) 4-bromofluorobenzene	15.89	95	1588783	50.11 ppb	0.00
Spiked Amount 50.000			Recovery	= 100.22%	

Target Compounds					Qvalue
5) bromomethane	2.72	94	777	Below Cal #	1
10) acetone	4.15	43	106423	4.88 ppb	92
11) methylene chloride	4.84	84	24108	0.76 ppb	91
13) acrylonitrile	5.23	53	730	0.10 ppb #	10
17) 2-butanone	6.97	43	10228	0.34 ppb #	53
19) chloroform	7.43	83	777	0.02 ppb #	18
24) benzene	8.32	78	60561	0.40 ppb #	86
32) 4-methyl-2-pentanone	11.36	43	12753	0.24 ppb #	1
34) toluene	11.48	92	23083	0.19 ppb	85
36) trans-1,3-dichloropropene	11.99	75	22644	0.71 ppb #	49
38) carbon disulfide	4.42	76	4708	0.04 ppb #	79
42) 1,3-dichloropropane	12.44	76	665	0.02 ppb #	44
43) 2-hexanone	12.77	43	8221	0.18 ppb #	28
46) chlorobenzene	13.87	112	2905	0.03 ppb #	68
50) bromobenzene	16.13	156	595	Below Cal #	1
54) ethylbenzene	14.08	91	3585	Below Cal #	34
55) m/p-xylene	14.30	106	3388	Below Cal #	100
56) styrene	15.01	104	1900	0.02 ppb	100
59) n-propyl benzene	16.37	91	3221	Below Cal #	44
61) 4-chlorotoluene	16.70	91	7256	Below Cal #	49
62) 1,3,5-trimethylbenzene	16.71	105	754	Below Cal #	25
64) 1,2,4-trimethylbenzene	17.37	105	5564	Below Cal #	17
65) sec-butylbenzene	17.37	105	5564	Below Cal #	39
66) 1,3-dichlorobenzene	17.85	146	2677	Below Cal #	26
68) 1,4-dichlorobenzene	18.03	146	3987	Below Cal #	26
69) 1,2-dichlorobenzene	18.68	146	1540	Below Cal #	25
70) n-butylbenzene	18.69	91	2617	Below Cal #	43

(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\JAN-OCT2005\1101205\1012132.D Vial: 32
Acq On : 13 Oct 2005 12:31 am Operator: JTF
Sample : g106-559-2a Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 12 23:56 2005 Quant Results File: 8260SSC.RES

Method : D:\HPCHEM\1\JAN-OCT2005\1101205\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration



N.C. CERTIFICATION #481
PARADIGM ANALYTICAL LABORATORIES, INC.

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\JAN-OCT2005\1101205\1012144.D Vial: 44
Acq On : 13 Oct 2005 6:49 am Operator: JTF
Sample : g106-559-2b ms Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 13 6:15 2005 Quant Results File: 8260SSC.RES

Quant Method : D:\HPCHEM\1\DATA\1101205\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) fluorobenzene	8.78	96	6016941	50.00	ppb	0.00
39) bromochloropropane	11.99	79	544809	50.00	ppb	-0.01
53) chlorobenzene-d5	13.82	117	2867976	50.00	ppb	0.00
System Monitoring Compounds						
23) 1,2-dichloroethane-d4	8.21	65	493990	42.82	ppb	0.00
Spiked Amount 50.000			Recovery	=	85.64%	
33) toluene-d8	11.38	98	3643668	50.09	ppb	0.00
Spiked Amount 50.000			Recovery	=	100.18%	
49) 4-bromofluorobenzene	15.88	95	1580670	48.67	ppb	-0.01
Spiked Amount 50.000			Recovery	=	97.34%	

Target Compounds							Qvalue
2) dichlorodifluoromethane	2.01	85	2081976	47.54	ppb		99
3) chloromethane	2.28	50	2784229	49.93	ppb		100
4) vinyl chloride	2.37	62	3459429	52.44	ppb		99
5) bromomethane	2.78	94	1069742	67.04	ppb		94
6) chloroethane	2.92	64	1770638	85.71	ppb		93
7) trichlorofluoromethane	3.29	101	2223383	47.20	ppb		100
8) acrolein	3.89	56	1711446	375.92	ppb		95
9) 1,1-dichloroethene	4.06	96	1892915	46.31	ppb		96
10) acetone	4.14	43	596963	24.65	ppb		98
11) methylene chloride	4.84	84	1666723	44.66	ppb		98
12) trans-1,2-dichloroethene	5.29	96	2196391	46.69	ppb		100
13) acrylonitrile	5.23	53	3636660	430.00	ppb		99
14) 1,1-dichloroethane	5.97	63	4031567	46.24	ppb		99
15) 2,2-dichloropropane	6.91	77	2220841	40.08	ppb		99
16) cis-1,2-dichloroethene	6.90	96	2075961	45.47	ppb		99
17) 2-butanone	6.94	43	1002779	28.75	ppb		98
18) bromochloromethane	7.27	128	564766	40.77	ppb		97
19) chloroform	7.43	83	2593436	42.65	ppb		100
20) 1,1,1-trichloroethane	7.73	97	2371696	41.85	ppb		99
21) carbon tetrachloride	8.00	117	1654280	41.13	ppb		98
22) 1,1-dichloropropene	7.99	75	2755124	46.55	ppb		98
24) benzene	8.33	78	8334162	46.98	ppb	#	84
25) 1,2-dichloroethane	8.33	62	1419762	38.54	ppb		98
26) trichloroethene	9.38	95	2108259	46.24	ppb		98
27) 1,2-dichloropropane	9.71	63	2088764	46.71	ppb		97
28) dibromomethane	9.90	93	621363	39.99	ppb		97
29) bromodichloromethane	10.17	83	1552030	40.67	ppb		100
30) 2-chloroethyl vinyl ether	10.70	106	1204194	40.45	ppb		98
31) cis-1,3-dichloropropene	10.91	75	2167605	42.52	ppb		99
32) 4-methyl-2-pentanone	11.19	43	2290499	37.14	ppb		99
34) toluene	11.49	92	6576742	45.61	ppb	#	37
35) Iodomethane	4.29	142	1055412	47.80	ppb		98
36) trans-1,3-dichloropropene	11.85	75	1483868	39.53	ppb		100
37) Vinyl acetate	6.07	86	377126	90.53	ppb		97
38) Carbon disulfide	4.40	76	6852174	48.14	ppb		99
40) 1,1,2-trichloroethane	12.14	83	796130	43.60	ppb		93
41) tetrachloroethene	12.41	166	1699416	45.69	ppb		99
42) 1,3-dichloropropane	12.43	76	1704381	43.02	ppb		100
43) 2-hexanone	12.60	43	1532557	32.31	ppb		98
44) dibromochloromethane	12.80	129	825478	38.62	ppb		98
45) 1,2-dibromoethane	12.99	107	770367	40.47	ppb		97
46) chlorobenzene	13.87	112	3987037	43.65	ppb		99
47) 1,1,1,2-tetrachloroethane	14.00	131	1114140	43.77	ppb		97

(#) = qualifier out of range (m) = manual integration
1012144.D 8260SSC.M Tue Nov 08 15:15:54 2005

Data File : D:\HPCHEM\1\JAN-OCT2005\1101205\1012144.D Vial: 44
Acq On : 13 Oct 2005 6:49 am Operator: JTF
Sample : g106-559-2b ms Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 13 6:15 2005 Quant Results File: 8260SSC.RES

Quant Method : D:\HPCHEM\1\DATA\1101205\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

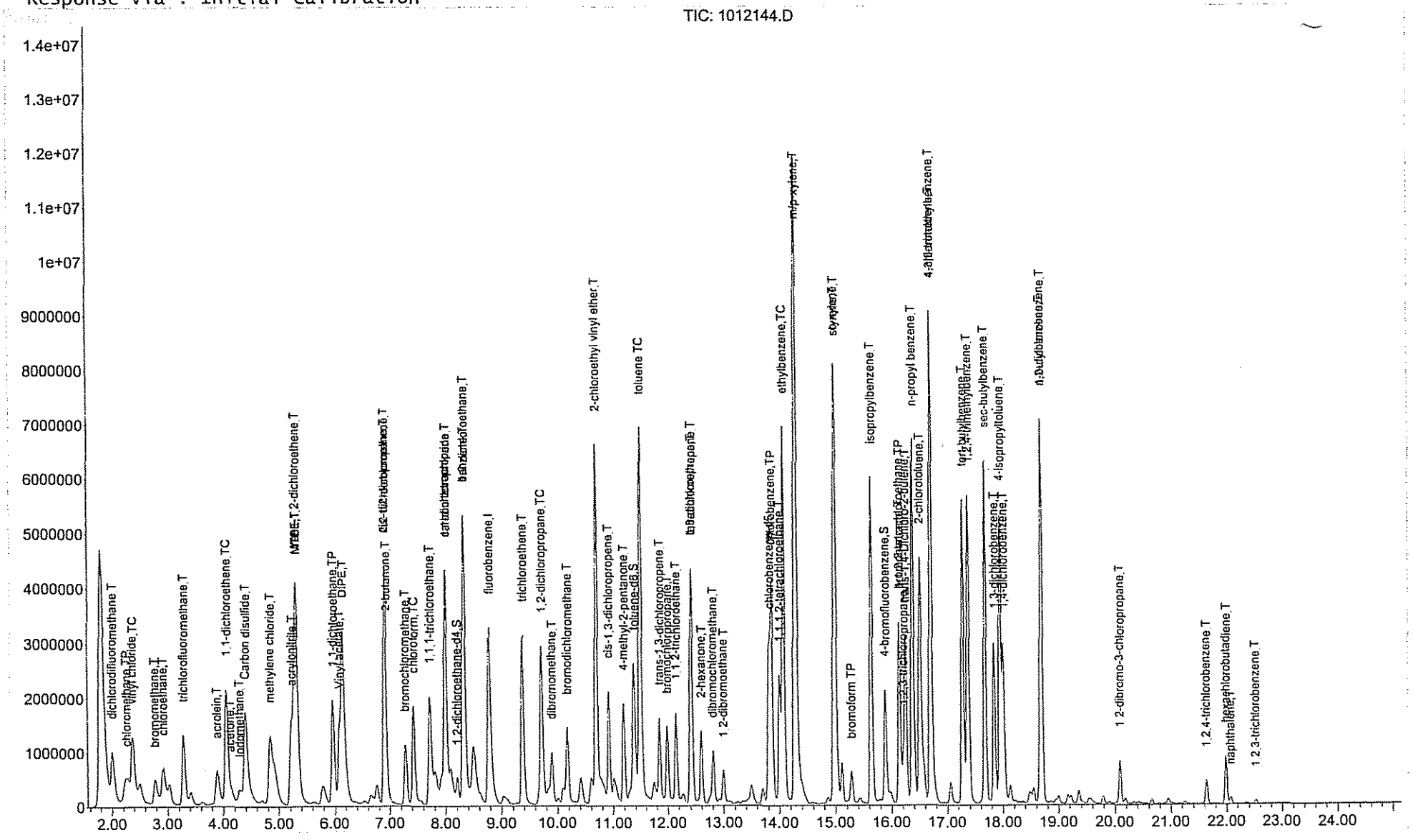
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
48)	bromoform	15.28	173	455108	37.10 ppb		100
50)	bromobenzene	16.14	156	1230461	43.87 ppb		99
51)	1,1,2,2-tetrachloroethane	16.15	83	851222	40.51 ppb		98
52)	1,2,3-trichloropropane	16.21	110	212367	38.19 ppb	#	72
54)	ethylbenzene	14.07	91	10120103	49.70 ppb	#	79
55)	m/p-xylene	14.29	106	7549128	100.12 ppb	#	100
56)	styrene	15.00	104	4120464	45.51 ppb		100
57)	o-xylene	14.97	106	3253827	45.55 ppb		79
58)	isopropylbenzene	15.64	105	7969451	48.30 ppb	#	86
59)	n-propyl benzene	16.38	91	10785975	50.22 ppb	#	79
60)	2-chlorotoluene	16.50	126	1405020	46.72 ppb		94
61)	4-chlorotoluene	16.70	91	5554488	47.10 ppb		97
62)	1,3,5-trimethylbenzene	16.70	105	6090258	48.44 ppb		93
63)	tert-butylbenzene	17.28	119	4704335	47.66 ppb		86
64)	1,2,4-trimethylbenzene	17.37	105	6648130	46.37 ppb	#	73
65)	sec-butylbenzene	17.67	105	8719807	49.17 ppb	#	68
66)	1,3-dichlorobenzene	17.85	146	2363350	44.46 ppb		98
67)	4-isopropyltoluene	17.95	119	5670003	46.50 ppb	#	83
68)	1,4-dichlorobenzene	18.01	146	2222817	44.26 ppb		99
69)	1,2-dichlorobenzene	18.68	146	1792608	43.60 ppb		98
70)	n-butylbenzene	18.70	91	6034750	46.87 ppb	#	82
71)	1,2-dibromo-3-chloropropan	20.09	75	314900	182.90 ppb		97
72)	1,2,4-trichlorobenzene	21.64	180	267553	29.67 ppb		97
73)	hexachlorobutadiene	21.98	225	347135	34.51 ppb		100
74)	naphthalene	22.06	128	182774	27.43 ppb		98
75)	trans-1,4-Dichloro-2-buten	16.26	89	778081	184.73 ppb		96
76)	1,2,3-trichlorobenzene	22.52	180	51860	17.92 ppb		96
77)	MTBE	5.32	73	3168087	42.62 ppb	#	89
78)	DIPE	6.14	45	7232019	48.34 ppb		93

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\JAN-OCT2005\1101205\1012144.D Vial: 44
Acq On : 13 Oct 2005 6:49 am Operator: JTF
Sample : g106-559-2b ms Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 13 6:15 2005 Quant Results File: 8260SSC.RES

Method : D:\HPCHEM\1\JAN-OCT2005\1101205\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration



1012144.D 8260SSC.M Tue Nov 08 15:15:58 2005

Page 3

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\JAN-OCT2005\1101205\1012145.D Vial: 45
Acq On : 13 Oct 2005 7:21 am Operator: JTF
Sample : g106-559-2c msd Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Nov 8 15:16 2005 Quant Results File: 8260SSC.RES

Quant Method : D:\HPCHEM\1\JAN-OCT2005\1101205\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) fluorobenzene	8.78	96	6031040	50.00	ppb		0.00
39) bromochloropropane	11.98	79	525294	50.00	ppb		-0.02
53) chlorobenzene-d5	13.81	117	2852721	50.00	ppb		0.00
System Monitoring Compounds							
23) 1,2-dichloroethane-d4	8.21	65	474922	41.07	ppb		0.00
Spiked Amount 50.000			Recovery	=	82.14%		
33) toluene-d8	11.37	98	3664883	50.26	ppb		0.00
Spiked Amount 50.000			Recovery	=	100.52%		
49) 4-bromofluorobenzene	15.88	95	1561750	49.87	ppb		-0.02
Spiked Amount 50.000			Recovery	=	99.74%		
Target Compounds							Qvalue
2) dichlorodifluoromethane	2.01	85	2053940	46.79	ppb		100
3) chloromethane	2.25	50	2975641	53.24	ppb		99
4) vinyl chloride	2.38	62	3559397	53.83	ppb		100
5) bromomethane	2.77	94	1092584	68.48	ppb		99
6) chloroethane	2.92	64	1837153	89.13	ppb		99
7) trichlorofluoromethane	3.29	101	2187179	46.32	ppb		96
8) acrolein	3.90	56	1599792	350.57	ppb		96
9) 1,1-dichloroethene	4.06	96	1942480	47.41	ppb		98
10) acetone	4.14	43	523547	21.52	ppb		99
11) methylene chloride	4.84	84	1650299	44.12	ppb		97
12) trans-1,2-dichloroethene	5.29	96	2199710	46.65	ppb		98
13) acrylonitrile	5.22	53	3457029	407.80	ppb		100
14) 1,1-dichloroethane	5.96	63	4141490	47.39	ppb		97
15) 2,2-dichloropropane	6.91	77	2118933	38.15	ppb		99
16) cis-1,2-dichloroethene	6.91	96	2072504	45.29	ppb		99
17) 2-butanone	6.94	43	923200	26.41	ppb		98
18) bromochloromethane	7.28	128	574652	41.39	ppb		97
19) chloroform	7.43	83	2611440	42.84	ppb		99
20) 1,1,1-trichloroethane	7.72	97	2413848	42.50	ppb		98
21) carbon tetrachloride	8.00	117	1669409	41.41	ppb		99
22) 1,1-dichloropropene	8.00	75	2803871	47.27	ppb		98
24) benzene	8.32	78	8504283	47.82	ppb	#	83
25) 1,2-dichloroethane	8.32	62	1394825	37.78	ppb		98
26) trichloroethene	9.38	95	2199520	48.13	ppb		99
27) 1,2-dichloropropane	9.71	63	2107759	47.03	ppb		100
28) dibromomethane	9.90	93	557893	35.82	ppb		90
29) bromodichloromethane	10.17	83	1568359	41.01	ppb		99
30) 2-chloroethyl vinyl ether	10.70	106	1076334	36.65	ppb		97
31) cis-1,3-dichloropropene	10.92	75	2152398	42.13	ppb		99
32) 4-methyl-2-pentanone	11.19	43	1987908	32.16	ppb		94
34) toluene	11.48	92	6780192	46.91	ppb	#	35
35) Iodomethane	4.30	142	869141	40.85	ppb		100
36) trans-1,3-dichloropropene	11.85	75	1454491	38.65	ppb		99
37) Vinyl acetate	6.08	86	322041	71.81	ppb		96
38) Carbon disulfide	4.40	76	7017270	49.18	ppb		100
40) 1,1,2-trichloroethane	12.14	83	763158	43.34	ppb		95
41) tetrachloroethene	12.41	166	1765591	49.60	ppb		99
42) 1,3-dichloropropane	12.43	76	1655315	43.33	ppb		96
43) 2-hexanone	12.59	43	1442151	31.53	ppb		99
44) dibromochloromethane	12.81	129	816528	39.62	ppb		97
45) 1,2-dibromoethane	12.99	107	753216	41.04	ppb		100
46) chlorobenzene	13.86	112	4039152	45.86	ppb		98
47) 1,1,1,2-tetrachloroethane	14.00	131	1108160	45.32	ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\JAN-OCT2005\1101205\1012145.D Vial: 45
Acq On : 13 Oct 2005 7:21 am Operator: JTF
Sample : g106-559-2c msd Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Nov 8 15:16 2005 Quant Results File: 8260SSC.RES

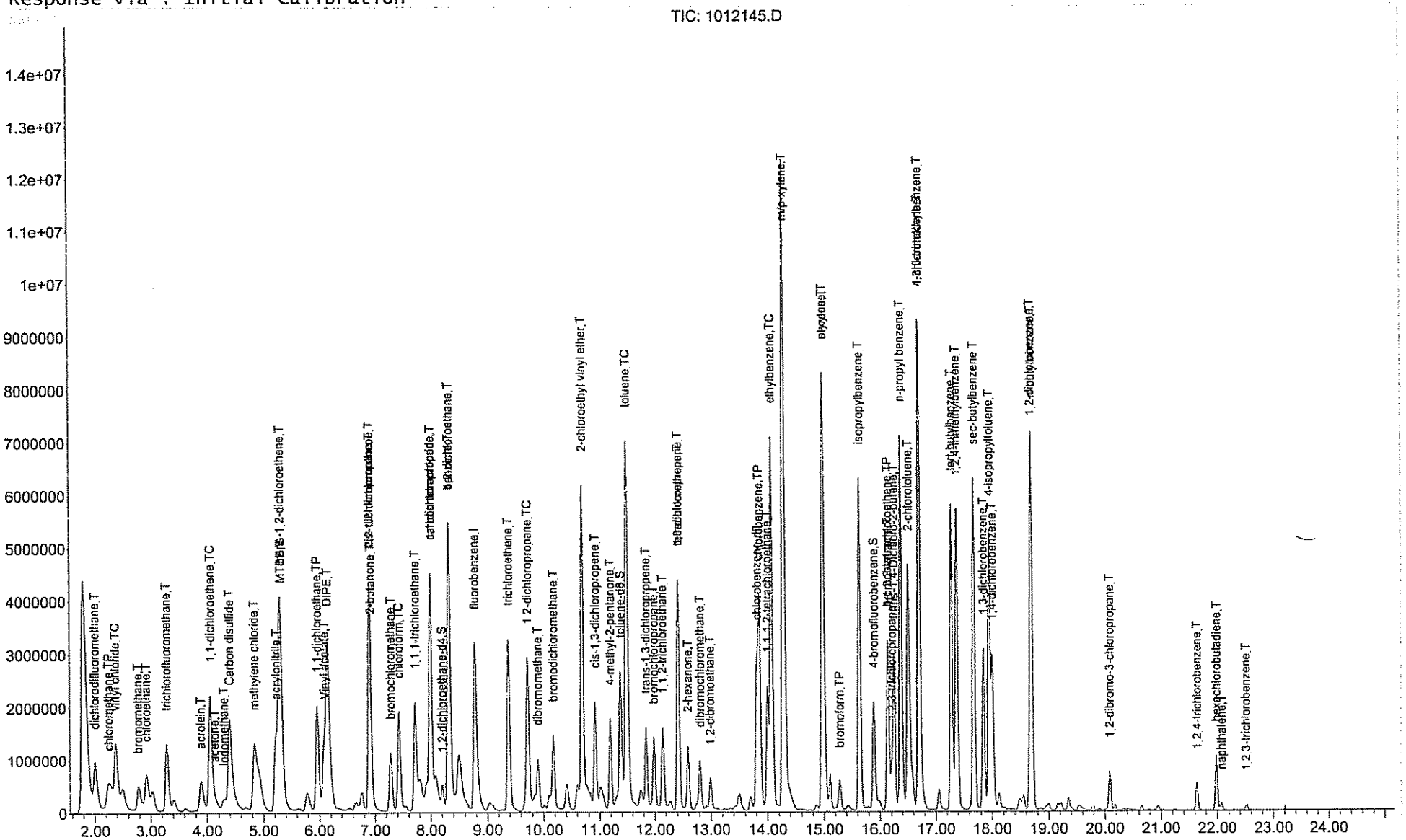
Quant Method : D:\HPCHEM\1\JAN-OCT2005\1101205\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration
DataAcq Meth : 8260SSC

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
48) bromoform	15.28	173	424266	35.87 ppb		95
50) bromobenzene	16.15	156	1238226	46.03 ppb		94
51) 1,1,2,2-tetrachloroethane	16.15	83	800789	39.38 ppb		99
52) 1,2,3-trichloropropane	16.21	110	198292	36.98 ppb	#	72
54) ethylbenzene	14.07	91	10304022	50.91 ppb	#	79
55) m/p-xylene	14.29	106	7731550	103.41 ppb	#	100
56) styrene	15.00	104	4098173	45.51 ppb		100
57) o-xylene	14.98	106	3312438	46.62 ppb		77
58) isopropylbenzene	15.64	105	8177796	49.86 ppb	#	86
59) n-propyl benzene	16.37	91	10990898	51.52 ppb	#	79
60) 2-chlorotoluene	16.51	126	1416202	47.40 ppb		93
61) 4-chlorotoluene	16.70	91	5703887	48.79 ppb		96
62) 1,3,5-trimethylbenzene	16.70	105	6213885	49.82 ppb		93
63) tert-butylbenzene	17.28	119	4803870	49.04 ppb		88
64) 1,2,4-trimethylbenzene	17.37	105	6802734	47.73 ppb	#	72
65) sec-butylbenzene	17.68	105	8768186	49.72 ppb	#	69
66) 1,3-dichlorobenzene	17.85	146	2380828	45.06 ppb		100
67) 4-isopropyltoluene	17.96	119	5778636	47.67 ppb	#	83
68) 1,4-dichlorobenzene	18.01	146	2244785	44.99 ppb		99
69) 1,2-dichlorobenzene	18.68	146	1799464	44.04 ppb		97
70) n-butylbenzene	18.70	91	6128176	47.88 ppb	#	83
71) 1,2-dibromo-3-chloropropan	20.08	75	297642	173.80 ppb		97
72) 1,2,4-trichlorobenzene	21.64	180	306105	34.71 ppb		99
73) hexachlorobutadiene	21.98	225	414060	42.31 ppb		99
74) naphthalene	22.07	128	216052	32.75 ppb	#	98
75) trans-1,4-Dichloro-2-buten	16.26	89	731342	174.56 ppb		96
76) 1,2,3-trichlorobenzene	22.51	180	75687	27.80 ppb		96
77) MTBE	5.32	73	3069295	41.51 ppb	#	90
78) DIPE	6.14	45	7244702	48.68 ppb		95

(#) = qualifier out of range (m) = manual integration
1012145.D 8260SSC.M Tue Nov 08 15:16:08 2005

Data File : D:\HPCHEM\1\JAN-OCT2005\1101205\1012145.D Vial: 45
Acq On : 13 Oct 2005 7:21 am Operator: JTF
Sample : g106-559-2c msd Inst : MSD1
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Nov 8 15:16 2005 Quant Results File: 8260SSC.RES

Method : D:\HPCHEM\1\JAN-OCT2005\1101205\8260SSC.M (RTE Integrator)
Title : Soil for 8260/8240/624/App.II/App.IX
Last Update : Wed Oct 12 07:56:37 2005
Response via : Initial Calibration



1012145.D 8260SSC.M Tue Nov 08 15:16:11 2005

PARADIGM ANALYTICAL LABORATORIES, INC

N.C. CERTIFICATION #481

8260 Prep, Standard, Run Logs

8260WBC-7-100405-C79 8260WBQ-7-100405-C80 8260SBC-7-100405-C83 8260SBQ-7-100405-C84
8260WGC-7-101105-C79 8260WGQ-7-101105-C80 8260SGC-7-101105-C83 8260SGQ-7-101105-C84

Paradigm Analytical

MSD1 Runlog 016 Sheet

Method: 5030/5035 8260 / 6210D

Initial Cal. Curve: 8260/5035:10/11/05

Matrix: Soil Water

Batch: 1101105 8260/6210d: 08/01/05

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	RERUN
1011101.D	bfb 50ng	10/11/05 7:45				JTF	
1011102.D	b	10/11/05 8:55				JTF	
1011103.D	b	10/11/05 9:27				JTF	
1011104.D	b	10/11/05 10:18				JTF	
1011105.D	b	10/11/05 10:49				JTF	
1011106.D	b	10/11/05 11:21				JTF	
1011107.D	b	10/11/05 11:52				JTF	
1011108.D	vstd5	10/11/05 12:24				JTF	
1011109.D	vstd10	10/11/05 12:55				JTF	
1011110.D	vstd5	10/11/05 13:34				JTF	
1011111.D	vstd10	10/11/05 14:06				JTF	
1011112.D	vstd20	10/11/05 14:37				JTF	
1011113.D	vstd50	10/11/05 15:08				JTF	
1011114.D	vstd80	10/11/05 15:40				JTF	
1011115.D	vstd100	10/11/05 16:11				JTF	
1011116.D	vstd200	10/11/05 16:43				JTF	
1011117.D	bfb 50ng	10/11/05 17:14				JTF	
1011118.D	qchk100	10/11/05 17:46				JTF	
1011119.D	qchk100	10/11/05 18:18				JTF	
1011120.D	lcs1101105a	10/11/05 18:49				JTF	
1011121.D	vblk1101105b	10/11/05 19:21				JTF	
1011122.D	vblk1101105c	10/11/05 19:52				JTF	

PARADIGM ANALYTICAL LABORATORIES, INC.

N.C. CERTIFICATION #481

Page Number: 4255

Analyst: TK

VQ21 112202.1

8260WBC-7-100405-C79 8260WBQ-7-100405-C80 8260SBC-7-100405-C83 8260SBQ-7-100405-C84
8260WGC-7-101105-C79 8260WGQ-7-101105-C80 8260SGC-7-101105-C83 8260SGQ-7-101105-C84

Paradigm Analytical

MSD1 Runlog 016 Sheet

Method: 5030/5035 8260 / 6210D

Matrix: Soil Water

Initial Cal. Curve: 8260/5035:10/11/05

Batch: 1101105 8260/6210d: 08/01/05

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	RERUN
1011123.D	g204-493-1b	10/11/05 20:24				JTF	
1011124.D	g204-493-2b	10/11/05 20:55				JTF	
1011125.D	g204-493-3b	10/11/05 21:26				JTF	
1011126.D	g204-493-4b	10/11/05 21:58				JTF	
1011127.D	g204-493-5b	10/11/05 22:29				JTF	
1011128.D	g204-493-6b	10/11/05 23:00				JTF	
1011129.D	g204-493-7b	10/11/05 23:32				JTF	
1011130.D	g204-493-8b	10/12/05 0:03				JTF	
1011131.D	g204-493-9b	10/12/05 0:35				JTF	
1011132.D	g204-493-10b	10/12/05 1:06				JTF	
1011133.D	g204-493-11b	10/12/05 1:38				JTF	
1011134.D	g204-493-12b	10/12/05 2:09				JTF	
1011135.D	g204-493-13b	10/12/05 2:41				JTF	
1011136.D	g204-493-1b dup	10/12/05 3:13				JTF	
1011137.D	g204-493-2b ms	10/12/05 3:45				JTF	
1011138.D	g204-493-2b msd	10/12/05 4:16				JTF	
1011139.D	b	10/12/05 4:48				JTF	

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Analyst JTF

PARADIGM ANALYTICAL LABORATORIES, INC.

N.C. CERTIFICATION #481

8260WBC-7-100405-C79 8260WBQ-7-100405-C80 8260SBC-7-100405-C83 8260SBQ-7-100405-C84
8260WGC-7-101105-C79 8260WGQ-7-101105-C80 8260SGC-7-101105-C83 8260SGQ-7-101105-C84

Paradigm Analytical

Method: 5030/5035 8260 / 6210D

MSD1 Runlog 016 Sheet

Initial Cal. Curve: 8260/5035:10/11/05

Matrix: Soil Water

Batch: 1101205 8260/6210d: 08/01/05

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	RERUN
1012101.D	bfb 50ng	10/12/05 8:23				JTF	
1012102.D	qchk100	10/12/05 8:54				JTF	
1012103.D	lcs1101205a	10/12/05 9:26				JTF	
1012104.D	lcs1101205b	10/12/05 9:57				JTF	
1012105.D	vblk1101205a	10/12/05 10:28				JTF	
1012106.D	vblk1101205b	10/12/05 10:59				JTF	
1012107.D	g204-493-14b	10/12/05 11:30				JTF	
1012108.D	g204-493-15b	10/12/05 12:01				JTF	
1012109.D	g204-493-16b	10/12/05 12:33				JTF	
1012110.D	g204-493-17b	10/12/05 13:04				JTF	
1012111.D	g204-493-18b	10/12/05 13:35				JTF	
1012112.D	g204-493-19b	10/12/05 14:06				JTF	
1012113.D	g204-493-20b	10/12/05 14:38				JTF	
1012114.D	g204-494-1b	10/12/05 15:09				JTF	
1012115.D	g204-494-2b	10/12/05 15:40				JTF	
1012116.D	g204-494-9b	10/12/05 16:11				JTF	
1012117.D	g204-494-10b	10/12/05 16:42				JTF	
1012118.D	g204-493-14b dup	10/12/05 17:14				JTF	
1012119.D	g106-559-4a	10/12/05 17:45				JTF	
1012120.D	g161-2180-7a	10/12/05 18:16				JTF	
1012121.D	g161-2182-17a	10/12/05 18:47				JTF	
1012122.D	g204-493-15b ms	10/12/05 19:18				JTF	

PARADIGM ANALYTICAL LABORATORIES, INC.

N.C. CERTIFICATION #481

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Analyst: JTF

VQ21.112202.1

8260WBC-7-100405-C79 8260WBQ-7-100405-C80 8260SBC-7-100405-C83 8260SBQ-7-100405-C84
8260WGC-7-101105-C79 8260WGQ-7-101105-C80 8260SGC-7-101105-C83 8260SGQ-7-101105-C84

Paradigm Analytical

MSD1 Runlog 016 Sheet

Method: 5030/5035 8260 / 6210D

Matrix: Soil Water

Initial Cal. Curve: 8260/5035:10/11/05

Batch: 1101205 8260/6210d: 08/01/05

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	RERUN
1012123.D	g204-493-15c msd	10/12/05 19:50				JTF	
1012124.D	bfb 50ng	10/12/05 20:21				JTF	
1012125.D	bfb 50ng	10/12/05 20:52				JTF	
1012126.D	qchk050	10/12/05 21:23				JTF	
1012127.D	qchk050	10/12/05 21:54				JTF	
1012128.D	lcs1101205d	10/12/05 22:26				JTF	
1012129.D	vblk1101205d	10/12/05 22:57				JTF	
1012130.D	vblk1101205e	10/12/05 23:29				JTF	
1012131.D	g108-1691-6a	10/13/05 0:00				JTF	
1012132.D	g106-559-2a	10/13/05 0:31				JTF	
1012133.D	g161-2180-2b dup	10/13/05 1:02				JTF	
1012134.D	g161-2180-2a	10/13/05 1:34				JTF	
1012135.D	g161-2180-3a	10/13/05 2:05				JTF	
1012136.D	g161-2180-4a	10/13/05 2:37				JTF	
1012137.D	g161-2182-6a	10/13/05 3:08				JTF	
1012138.D	g161-2182-7a	10/13/05 3:40				JTF	
1012139.D	g161-2182-9a	10/13/05 4:12				JTF	
1012140.D	g161-2182-11a	10/13/05 4:43				JTF	
1012141.D	g161-2182-19a	10/13/05 5:15				JTF	
1012142.D	g161-2180-1a	10/13/05 5:47				JTF	
1012143.D	b	10/13/05 6:18				JTF	
1012144.D	g106-559-2b ms	10/13/05 6:49				JTF	

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PARADIGM ANALYTICAL LABORATORIES, INC.

N.C. CERTIFICATION #481

8260WBC-7-100405-C79 8260WBQ-7-100405-C80 8260SBC-7-100405-C83 8260SBQ-7-100405-C84
8260WGC-7-101105-C79 8260WGQ-7-101105-C80 8260SGC-7-101105-C83 8260SGQ-7-101105-C84

Paradigm Analytical

MSD1 Runlog 016 Sheet

Method: 5030/5035 8260 / 6210D

Matrix: Soil Water

Initial Cal. Curve: 8260/5035:10/11/05

Batch: 1101205 8260/6210d: 08/01/05

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	RERUN
1012145.D	g106-559-2c msd	10/13/05 7:21				JTF	

PARADIGM ANALYTICAL LABORATORIES, INC.

N.C. CERTIFICATION #481

Page Number: 4 of 5

Analyst: JTF

VO21.112202.1

Volatiles Standard Notebook #007 | **Mass Spec Soil** | **CURVE**

Soil BASE Mix:

Refering Page	Description	Initial conc. (ppm)	Ammt. used(ul)	Final Vol. (ml)	Final Conc. (ppm)
7A-29	Restek 502.2 MEGA mix lot AD356666	2000	50	10	10
7A-21	restek ketones lot AD34305	5000	50	10	10
7B-161	8260rxtv-7- 100405	10000	50	10	50
Solvent:	Methanol LOT# 60010				

Ampule opened: 10/4/05
Prep date:
Expiration date: 11/4/05

PAL lot number: 8260SBC-7- 100405-C83

Soil GAS Mix:

Refering Page	Description	Initial conc. (ppm)	Ammt. used(ul)	Final Vol. (ml)	Final Conc. (ppm)
7A-31	Restek gases AD36200	2000	50	10	10
7B-163	8260ac/ac/2ceve-7- 100405	500, 5000	200	10	10, 100
Solvent:	Methanol LOT# 60010				

Ampule opened: 10/4/05
Prep date:
Expiration date: 10/11/05

PAL lot number: 8260SGC-7- 100405-C83

Soil GAS Mix:

Refering Page	Description	Initial conc. (ppm)	Ammt. used(ul)	Final Vol. (ml)	Final Conc. (ppm)
7A-31	Restek gases AD36200	2000	50	10	10
7B-164	8260ac/ac/2ceve-7- 100405	500, 5000	200	10	10, 100
Solvent:	Methanol LOT# 60010				

Ampule opened: 10/11/05
Prep date:
Expiration date: 10/18/05

PAL lot number: 8260SGC-7-10 1105-C8

Soil GAS Mix:

Refering Page	Description	Initial conc. (ppm)	Ammt. used(ul)	Final Vol. (ml)	Final Conc. (ppm)
7A-39	Restek gases AD38872	2000	50	10	10
7B-166	8260ac/ac/2ceve-7- 101805	500, 5000	200	10	10, 100
Solvent:	Methanol LOT# 60010				

Ampule opened: 10/18/05
Prep date:
Expiration date: 10/25/05

PAL lot number: 8260SGC-7-101805-C83

Soil GAS Mix:

Refering Page	Description	Initial conc. (ppm)	Ammt. used(ul)	Final Vol. (ml)	Final Conc. (ppm)
7A-39	Restek gases AD38872	2000	50	10	10
7B-172	8260ac/ac/2ceve-7- 102405	500, 5000	200	10	10, 100
Solvent:	Methanol LOT# 60010				

Ampule opened: 10/24/05
Prep date:
Expiration date: 10/31/05

PAL lot number: 8260SGC-7-102405-C83

See reverse for any comments

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PARADIGM ANALYTICAL LABORATORIES, INC.

N.C CERTIFICATION #481

Volatiles Standard Notebook #007 | **Mass Spec Soil** | **QC**

Soil BASE Mix:

Refering Page	Description	Initial conc. (ppm)	Ammt. used(ul)	Final Vol. (ml)	Final Conc. (ppm)
7A-30	Restek 502.2 MEGA mix lot A035607	2000	50	10	10
7A-22	restek ketones lot A034305	5000	50	10	10
7B-102	8260rxtv-7- 100405	10000	50	10	50
Solvent:	Methanol LOT# C0010				

Ampule opened: 10/4/05
Prep date:
Expiration date: 11/4/05

PAL lot number: 8260SBQ-7-100405-C84

Soil GAS Mix:

Refering Page	Description	Initial conc. (ppm)	Ammt. used(ul)	Final Vol. (ml)	Final Conc. (ppm)
7A-32	Restek gases A036200	2000	50	10	10
7B-164	8260ac/ac/2ceve-7- 100405	500, 5000	200	10	10, 100
Solvent:	Methanol LOT# C0010				

Ampule opened: 10/4/05
Prep date:
Expiration date: 10/11/05

PAL lot number: 8260SGQ-7-100405-C84

Soil GAS Mix:

Refering Page	Description	Initial conc. (ppm)	Ammt. used(ul)	Final Vol. (ml)	Final Conc. (ppm)
7A-32	Restek gases A036200	2000	50	10	10
7B-167	8260ac/ac/2ceve-7- 101105	500, 5000	200	10	10, 100
Solvent:	Methanol LOT# C0010				

Ampule opened: 10/11/05
Prep date:
Expiration date: 10/18/05

PAL lot number: 8260SGQ-7- 101105-C84

Soil GAS Mix:

Refering Page	Description	Initial conc. (ppm)	Ammt. used(ul)	Final Vol. (ml)	Final Conc. (ppm)
7A-40	Restek gases A033871	2000	50	10	10
7B-169	8260ac/ac/2ceve-7- 101805	500, 5000	200	10	10, 100
Solvent:	Methanol LOT# C0010				

Ampule opened: 10/18/05
Prep date:
Expiration date: 10/20/05

PAL lot number: 8260SGQ-7-101805-C84

Soil GAS Mix:

Refering Page	Description A033871	Initial conc. (ppm)	Ammt. used(ul)	Final Vol. (ml)	Final Conc. (ppm)
7A-40	Restek gases ~~A033872~~ 10/24/05	2000	50	10	10
7B-173	8260ac/ac/2ceve-7- 102405	500, 5000	200	10	10, 100
Solvent:	Methanol LOT# C0010				

Ampule opened: 10/24/05
Prep date:
Expiration date: 10/31/05

PAL lot number: 8260SGQ-7- 102405-C84

See reverse for any comments

page: 84

VO27.112202.1

PARADIGM ANALYTICAL LABORATORIES, INC.

N.C. CERTIFICATION #481

8270-625 Sample Raw Data

Quantification Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7101005\1010711.D Vial: 11
Acq On : 10 Oct 2005 10:17 pm Operator: MRC
Sample : G161-2180-1H x1 Inst : MSD7
Misc : 8270 - BN [3540-3790] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 10 22:45:05 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7101005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Initial Calibration
DataAcq Meth : 8270

mc 10.11.05

6

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.56	152	112958	4.00	ug/mL	-0.08
18) Naphthalene-D8	9.52	136	423564	4.00	ug/mL	-0.08
33) Acenaphthene-d10	12.35	164	208358	4.00	ug/mL	-0.06
55) Phenanthrene-D10	14.76	188	343462	4.00	ug/mL	-0.06
85) Chrysene-D12	19.03	240	244851	4.00	ug/mL	-0.10
93) Perylene-D12	21.64	264	143733	4.00	ug/mL	-0.14
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.74	112	342213	10.54	ug/mL	-0.05
Spiked Amount 10.000			Recovery = 105.40%			
17) Phenol-d6 (surr)	7.02	99	483556	10.77	ug/mL	-0.06
Spiked Amount 10.000			Recovery = 107.70%			
32) Nitrobenzene-d5 (surr)	8.41	128	172790	10.85	ug/mL	-0.08
Spiked Amount 10.000			Recovery = 108.50%			
53) 2-Fluorobiphenyl (surr)	11.26	172	632941	10.19	ug/mL	-0.07
Spiked Amount 10.000			Recovery = 101.90%			
54) 2,4,6-Tribromophenol (surr	13.63	330	69251	10.64	ug/mL	-0.05
Spiked Amount 10.000			Recovery = 106.40%			
92) 4-Terphenyl-d14 (surr)	17.36	244	658020	10.33	ug/mL	-0.08
Spiked Amount 10.000			Recovery = 103.30%			

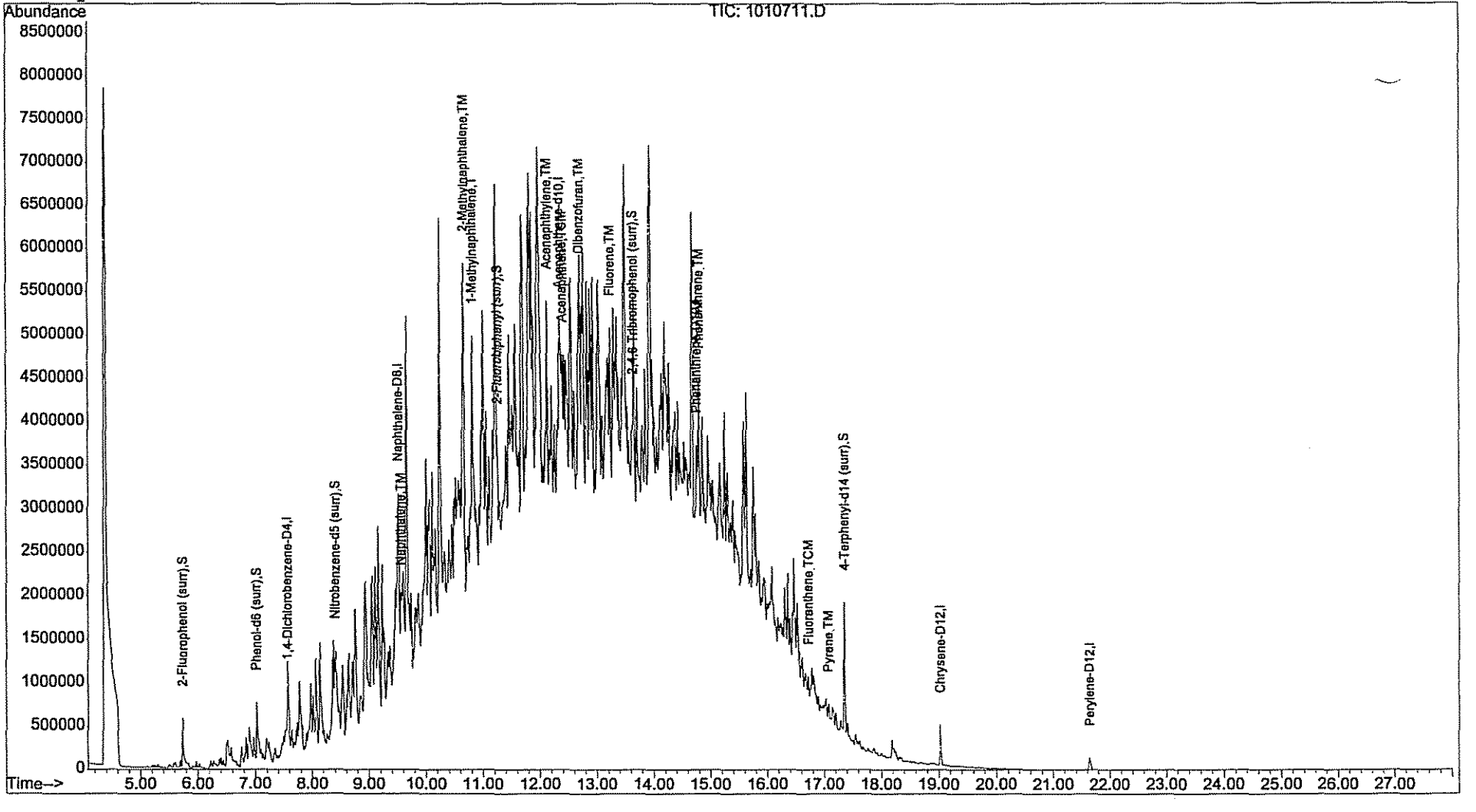
Target Compounds						Qvalue
27) Naphthalene	9.55	128	236015	2.68	ug/mL	97
31) 2-Methylnaphthalene	10.67	142	1581439	24.23	ug/mL	100
40) 1-Methylnaphthalene	10.82	142	1344580	20.03	ug/mL	96
42) Acenaphthylene	12.13	152	68951m	0.89	ug/mL	
44) Acenaphthene	12.40	153	152255	2.83	ug/mL	99
47) Dibenzofuran	12.69	168	167944m	2.20	ug/mL	
49) Fluorene	13.24	166	242686	4.22	ug/mL#	91
61) Phenanthrene	14.80	178	1378653	15.32	ug/mL	100
66) Fluoranthene	16.72	202	16826m	0.20	ug/mL	
86) Pyrene	17.08	202	44053	0.46	ug/mL#	83

(#) = qualifier out of range (m) = manual integration
1010711.D 8270.M Tue Oct 11 13:01:56 2005 ENV Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7101005\1010711.D Vial: 11
Acq On : 10 Oct 2005 10:17 pm Operator: MRC
Sample : G161-2180-1H x1 Inst : MSD7
Misc : 8270 - BN [3540-3790] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 12:44 2005 Quant Results File: 8270.RES

Method : C:\MSDCHEM\1\DATA\7101005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Initial Calibration



N.C CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC.

Quantification Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7101005\1010712.D Vial: 12
Acq On : 10 Oct 2005 10:55 pm Operator: MRC
Sample : G161-2180-2H x1 Inst : MSD7
Misc : 8270 - BN [3540-3790] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 10 23:23:32 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7101005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Initial Calibration
DataAcq Meth : 8270

MC 10-11-05

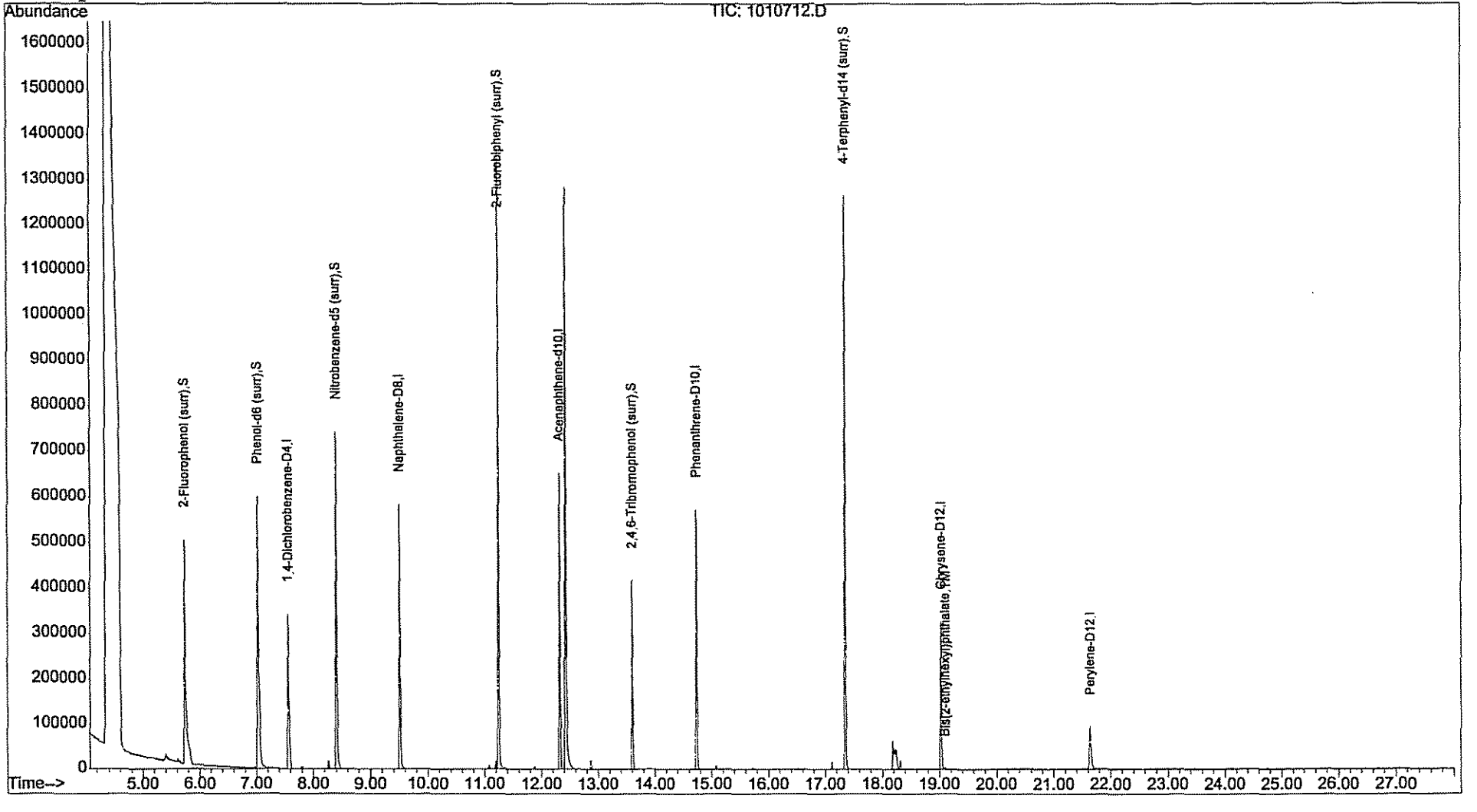
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.56	152	110774	4.00	ug/mL	-0.08
18) Naphthalene-D8	9.51	136	438418	4.00	ug/mL	-0.08
33) Acenaphthene-d10	12.32	164	205473	4.00	ug/mL	-0.09
55) Phenanthrene-D10	14.73	188	328868	4.00	ug/mL	-0.09
85) Chrysene-D12	19.03	240	186322	4.00	ug/mL	-0.10
93) Perylene-D12	21.64	264	97970	4.00	ug/mL	-0.14
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.74	112	320455	10.06	ug/mL	-0.05
Spiked Amount 10.000			Recovery = 100.60%			
17) Phenol-d6 (surr)	7.02	99	436079	9.90	ug/mL	-0.06
Spiked Amount 10.000			Recovery = 99.00%			
32) Nitrobenzene-d5 (surr)	8.40	128	165303	10.03	ug/mL	-0.08
Spiked Amount 10.000			Recovery = 100.30%			
53) 2-Fluorobiphenyl (surr)	11.25	172	612719	10.01	ug/mL	-0.08
Spiked Amount 10.000			Recovery = 100.10%			
54) 2,4,6-Tribromophenol (surr	13.61	330	56072	8.74	ug/mL	-0.08
Spiked Amount 10.000			Recovery = 87.40%			
92) 4-Terphenyl-d14 (surr)	17.35	244	543004	11.20	ug/mL	-0.09
Spiked Amount 10.000			Recovery = 112.00%			
Target Compounds						Qvalue
91) Bis(2-ethylhexyl)phthalate	19.10	149	3099	0.05	ug/mL#	50

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7101005\1010712.D Vial: 12
Acq On : 10 Oct 2005 10:55 pm Operator: MRC
Sample : G161-2180-2H x1 Inst : MSD7
Misc : 8270 - BN [3540-3790] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 12:55 2005 Quant Results File: 8270.RES

Method : C:\MSDCHEM\1\DATA\7101005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Initial Calibration



N.C. CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7101005\1010713.D Vial: 13
Acq On : 10 Oct 2005 11:33 pm Operator: MRC
Sample : G161-2180-3H x1 Inst : MSD7
Misc : 8270 - BN [3540-3790] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 00:01:32 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7101005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Initial Calibration
DataAcq Meth : 8270

mrc 10-11-05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.56	152	102124	4.00	ug/mL	-0.08
18) Naphthalene-D8	9.51	136	399346	4.00	ug/mL	-0.08
33) Acenaphthene-d10	12.32	164	189477	4.00	ug/mL	-0.09
55) Phenanthrene-D10	14.73	188	308169	4.00	ug/mL	-0.09
85) Chrysene-D12	19.03	240	193979	4.00	ug/mL	-0.10
93) Perylene-D12	21.64	264	106168	4.00	ug/mL	-0.14
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.73	112	190824	6.50	ug/mL	-0.06
Spiked Amount 10.000			Recovery	=	65.00%	
17) Phenol-d6 (surr)	7.02	99	293524	7.23	ug/mL	-0.06
Spiked Amount 10.000			Recovery	=	72.30%	
32) Nitrobenzene-d5 (surr)	8.40	128	110638	7.37	ug/mL	-0.08
Spiked Amount 10.000			Recovery	=	73.70%	
53) 2-Fluorobiphenyl (surr)	11.25	172	456466	8.08	ug/mL	-0.08
Spiked Amount 10.000			Recovery	=	80.80%	
54) 2,4,6-Tribromophenol (surr	13.61	330	50123	8.47	ug/mL	-0.08
Spiked Amount 10.000			Recovery	=	84.70%	
92) 4-Terphenyl-d14 (surr)	17.35	244	562894	11.15	ug/mL	-0.09
Spiked Amount 10.000			Recovery	=	111.50%	

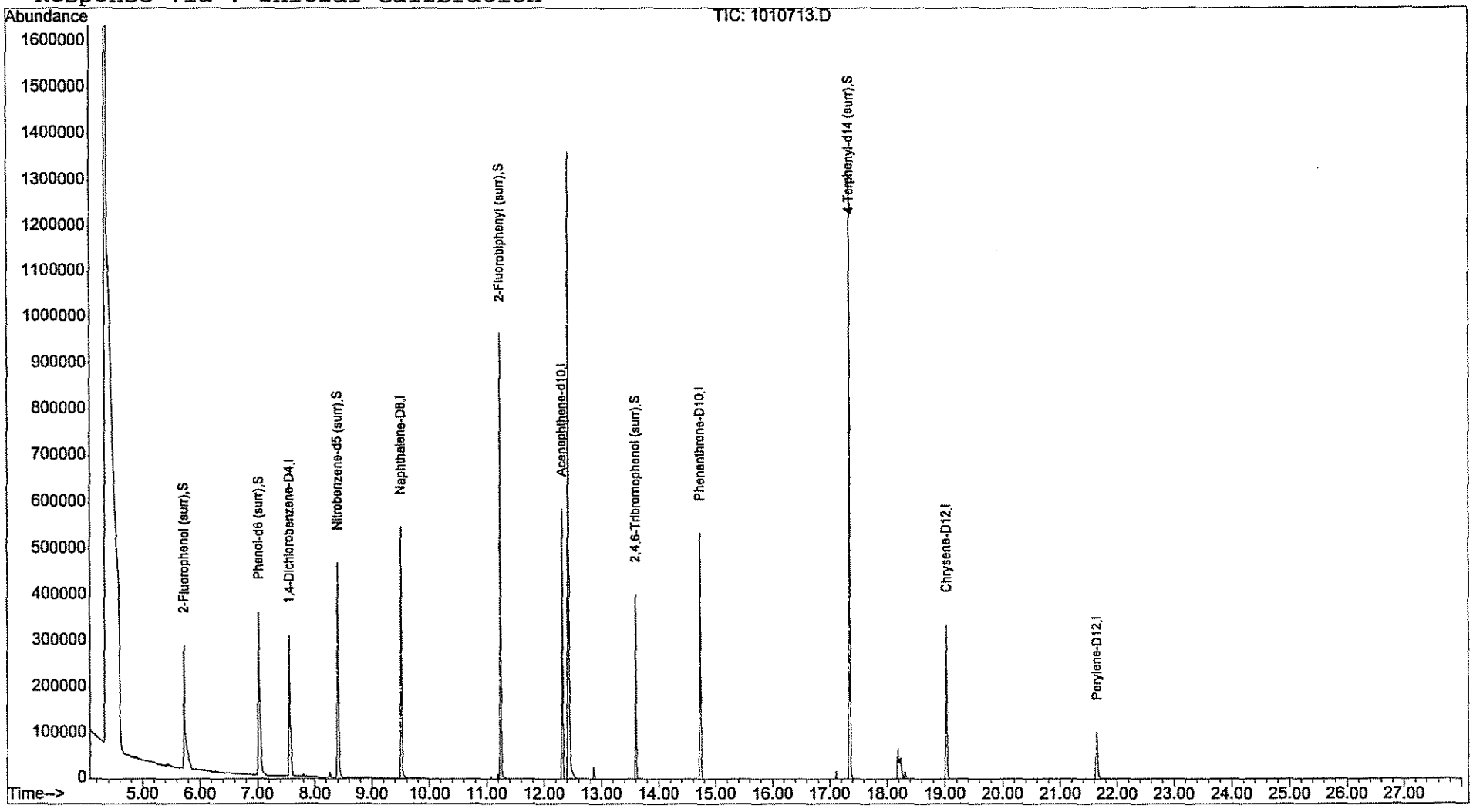
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Qt Reviewed)

Data File : C:\MSDCHEM\1\DATA\7101005\1010713.D Vial: 13
Acq On : 10 Oct 2005 11:33 pm Operator: MRC
Sample : G161-2180-3H x1 Inst : MSD7
Misc : 8270 - BN [3540-3790] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 12:56 2005 Quant Results File: 8270.RES

Method : C:\MSDCHEM\1\DATA\7101005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Initial Calibration



N.C. CERTIFICATION #481
PARADIGM ANALYTICAL LABORATORIES, INC.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100705\1007729.D Vial: 29
Acq On : 8 Oct 2005 4:05 am Operator: MRC
Sample : G161-2180-5I x1 Inst : MSD7
Misc : 625 - BN - TICS [3520-3780] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 08 04:33:51 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7100705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Initial Calibration
DataAcq Meth : 8270

mc 10.10.05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.60	152	107769	4.00	ug/mL	-0.03
18) Naphthalene-D8	9.55	136	429599	4.00	ug/mL	-0.04
33) Acenaphthene-d10	12.37	164	201851	4.00	ug/mL	-0.04
55) Phenanthrene-D10	14.79	188	347058	4.00	ug/mL	-0.04
85) Chrysene-D12	19.08	240	183111	4.00	ug/mL	-0.04
93) Perylene-D12	21.73	264	84220	4.00	ug/mL	-0.05
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.77	112	254674	8.22	ug/mL	-0.02
Spiked Amount 10.000			Recovery	=	82.20%	
17) Phenol-d6 (surr)	7.06	99	351263	8.20	ug/mL	-0.02
Spiked Amount 10.000			Recovery	=	82.00%	
32) Nitrobenzene-d5 (surr)	8.45	128	132442	8.20	ug/mL	-0.04
Spiked Amount 10.000			Recovery	=	82.00%	
53) 2-Fluorobiphenyl (surr)	11.29	172	534464	8.89	ug/mL	-0.03
Spiked Amount 10.000			Recovery	=	88.90%	
54) 2,4,6-Tribromophenol (surr	13.65	330	47446	7.53	ug/mL	-0.03
Spiked Amount 10.000			Recovery	=	75.30%	
92) 4-Terphenyl-d14 (surr)	17.40	244	429960	9.03	ug/mL	-0.03
Spiked Amount 10.000			Recovery	=	90.30%	

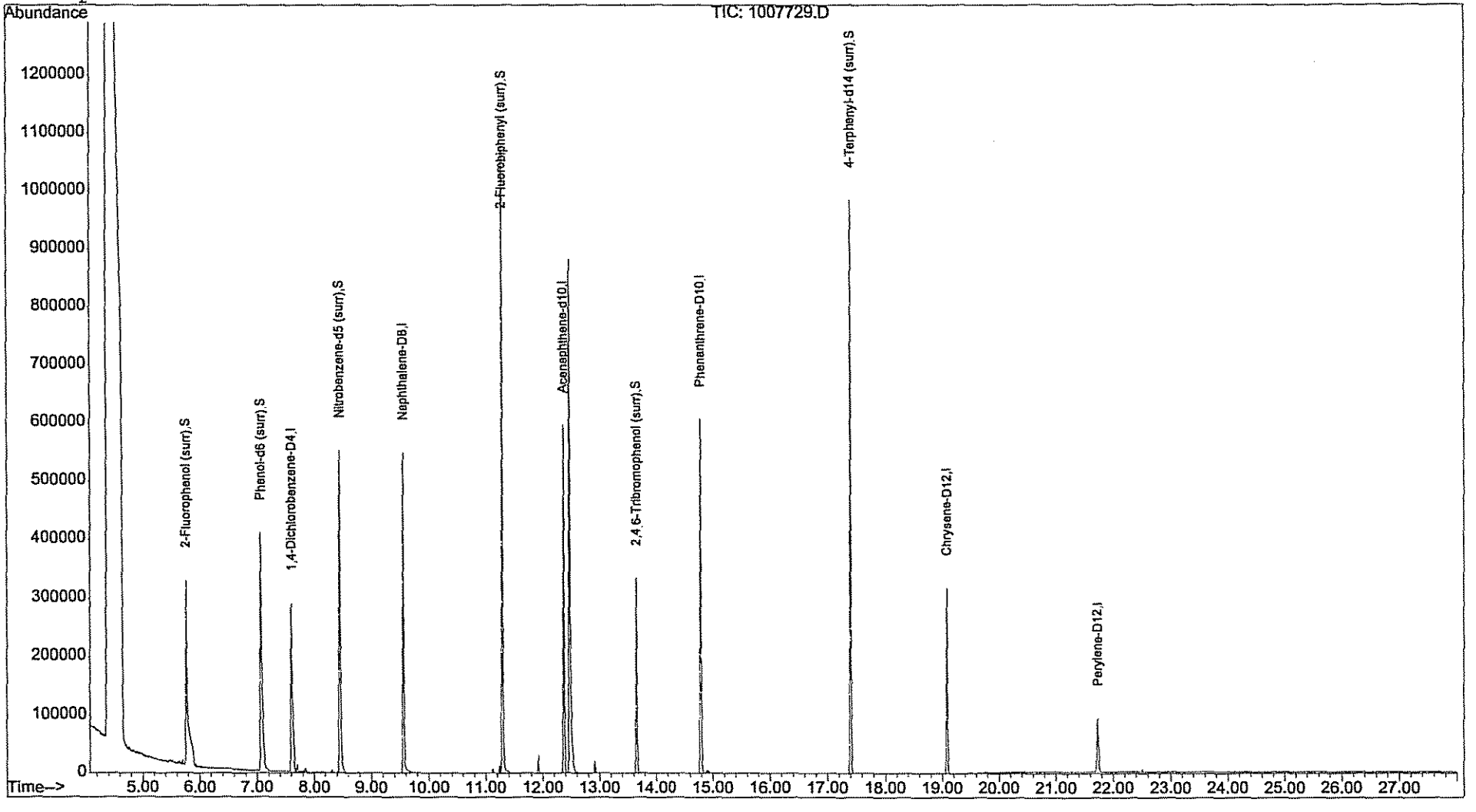
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100705\1007729.D Vial: 29
Acq On : 8 Oct 2005 4:05 am Operator: MRC
Sample : G161-2180-5I x1 Inst : MSD7
Misc : 625 - BN - TICS [3520-3780] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 10 10:40 2005 Quant Results File: 8270.RES

Method : C:\MSDCHEM\1\DATA\7100705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Initial Calibration



1007729.D 8270.M Mon Oct 10 10:47:17 2005 ENV Page 2

N.C. CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC.

Library Search Compound Report

Data File : C:\MSDCHEM\1\DATA\7100705\1007729.D Vial: 29
Acq On : 8 Oct 2005 4:05 am Operator: MRC
Sample : G161-2180-5I x1 Inst : MSD7
Misc : 625 - BN - TICS [3520-3780] Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\MSDCHEM\1\DATA\7100705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Library : C:\DATABASE\NBS75K.L

****

Peak Number 1 Toluene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.40	114.42 ug/mL	16046700	1,4-Dichlorobenzene-D4	7.60

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Toluene	92	C7H8	000108-88-3	91
2	Toluene	92	C7H8	000108-88-3	91
3	Toluene	92	C7H8	000108-88-3	91
4	1,3,5-Cycloheptatriene	92	C7H8	000544-25-2	90
5	Toluene	92	C7H8	000108-88-3	83

****

Peak Number 2 5H-Pyrrolotetrazole, 6,7-di... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.47	7.14 ug/mL	1422580	Acenaphthene-d10	12.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5H-Pyrrolotetrazole, 6,7-dihydro-	110	C4H6N4	005817-87-8	38
2	Bicyclo[4.1.0]heptan-2-one	110	C7H10O	005771-58-4	38
3	1,3-Octadiene	110	C8H14	001002-33-1	32
4	Cyclohexene, 4-ethenyl-	108	C8H12	000100-40-3	25
5	Diazene, dicyclohexyl-, 1,2-dioxide	226	C12H22N2O2	003378-45-8	25

Tentatively Identified Compound (TIC) Summary

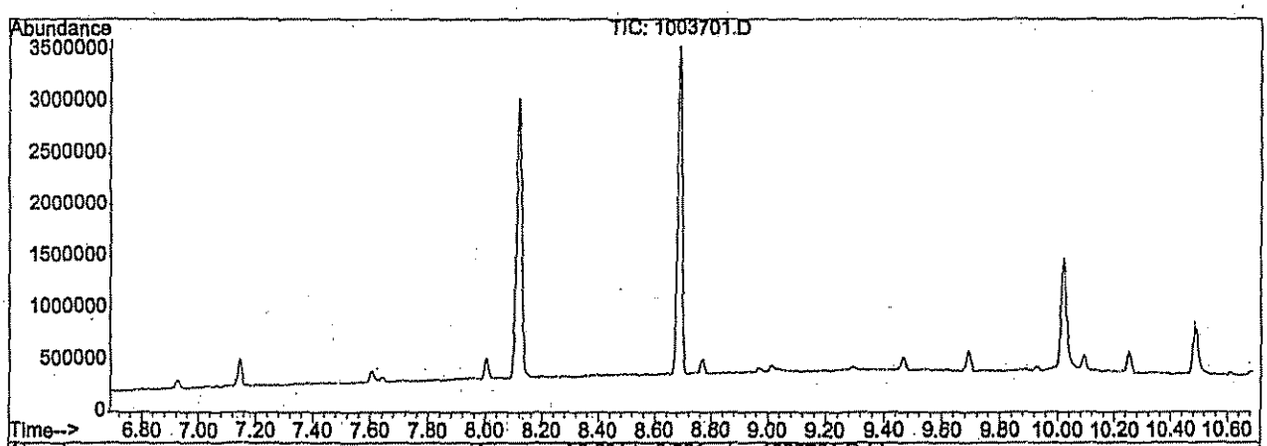
Operator ID: MRC Date Acquired: 8 Oct 2005 4:05 am
Data File: C:\MSDCHEM\1\DATA\7100705\1007729.D
Name: G161-2180-5I x1
Misc: 625 - BN - TICS [3520-3780]
Method: C:\MSDCHEM\1\DATA\7100705\8270.M (RTE Integrator)
Title: 5 POINT INITIAL CALIBRATION FOR 8270
Library Searched: C:\DATABASE\NBS75K.L

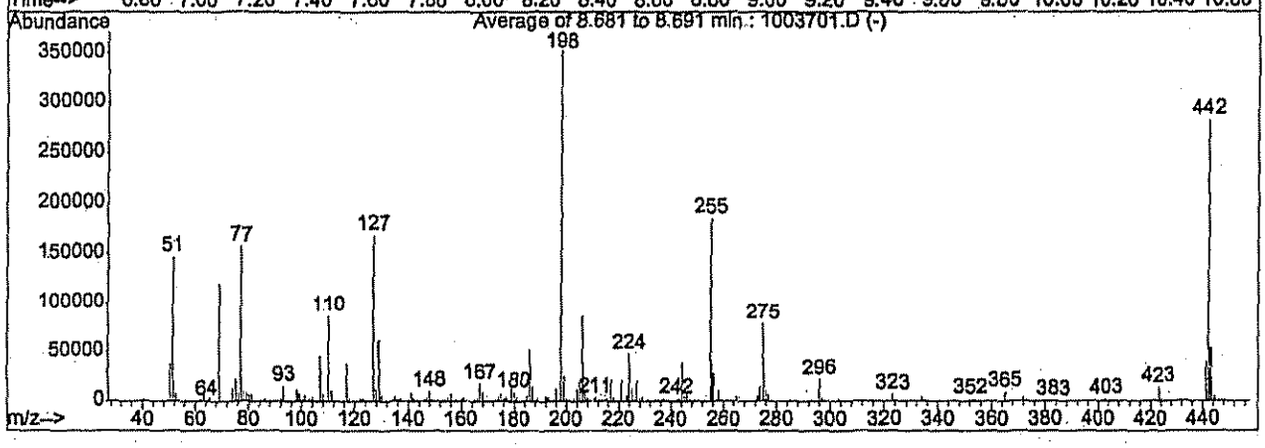
TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
Toluene	4.40	114.4	ug/mL	16046700	1	7.60	560980	4.0
5H-Pyrrolotetrazo...	12.47	7.1	ug/mL	1422580	3	12.37	796878	4.0

8270-625 Tuning

DFTPP

Data File : C:\MSDCHEM\1\DATA\7100305\1003701.D Vial: 1
Acq On : 3 Oct 2005 8:49 am Operator: MRC
Sample : DFTPP 50ng Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\DATA\7100305\DFTPP.M (RTE Integrator)
Title :





AutoFind: Scans 547, 548, 549; Background Corrected with Scan 540

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	41.6	146944	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	34.0	119825	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	47.7	168482	PASS
197	198	0.00	1	0.2	782	PASS
198	198	100	100	100.0	352938	PASS
199	198	5	9	7.0	24560	PASS
275	198	10	30	22.4	79013	PASS
365	198	1	100	2.6	9233	PASS
441	443	0.01	100	74.2	40120	PASS
442	198	40	100	80.0	282346	PASS
443	442	17	23	19.1	54050	PASS

1003701.D DFTPP.M Mon Oct 03 09:04:35 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100305\1003701.D Vial: 1
Acq On : 3 Oct 2005 8:49 am Operator: MRC
Sample : DFTPP 50ng Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 03 09:14:22 2005 Quant Results File: DFTPP.RES

Quant Method : C:\MSDCHEM\1\DATA\7100305\DFTPP.M (RTE Integrator)
Title :
Last Update : Thu Aug 25 18:30:02 2005
Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\7082505\0825701.D
DataAcq Meth : DFTPP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)

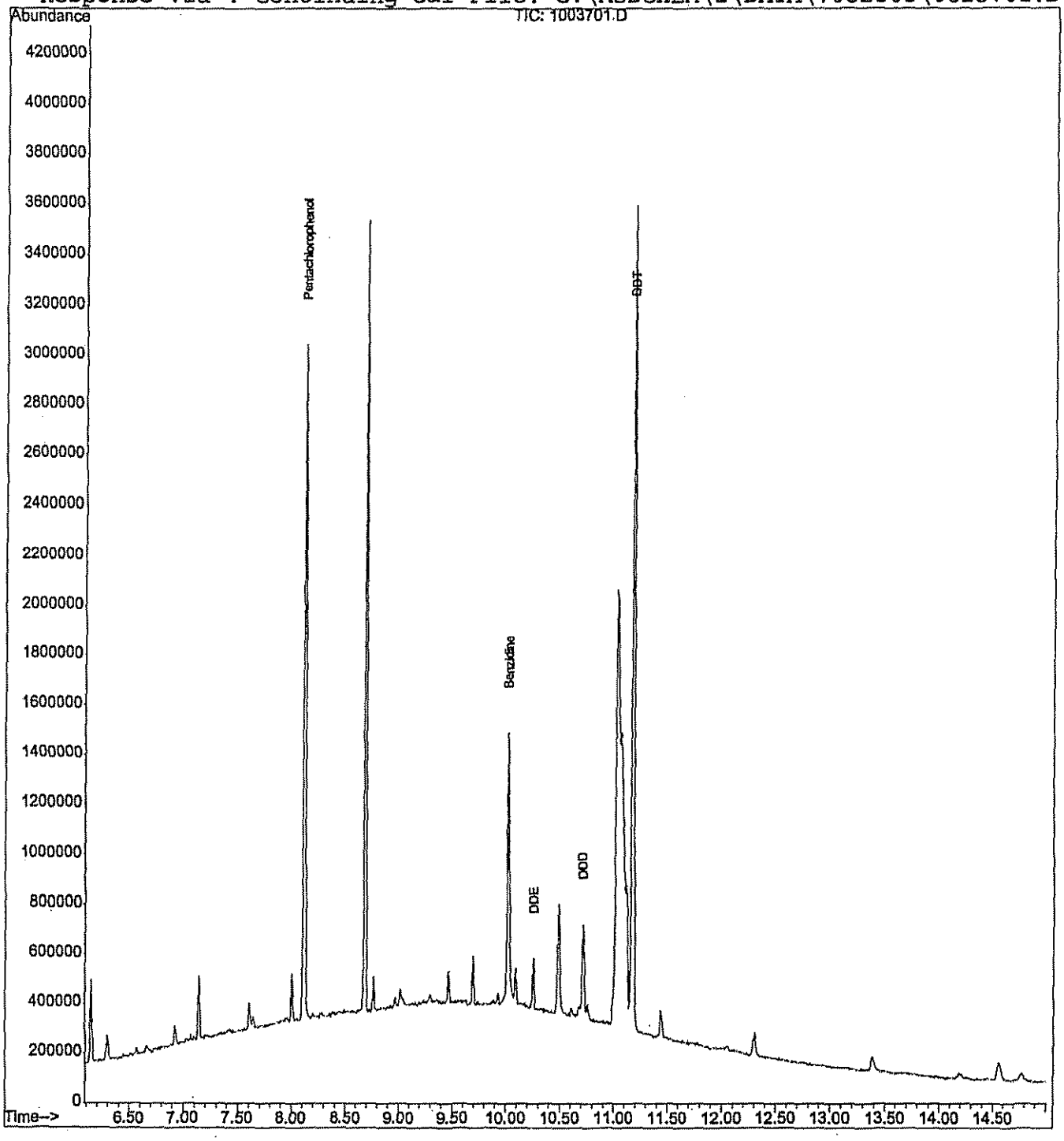
Target Compounds					Qvalue
1) Pentachlorophenol	8.12	TIC	3540660m	51.35	
2) Benzidine	10.02	TIC	1412446m	67.43	
3) DDT	11.18	TIC	4905835m	59.27	
4) DDD	10.71	TIC	470058m	83.63	
5) DDE	10.25	TIC	223858m	637.30	

(#) = qualifier out of range (m) = manual integration
1003701.D DFTPP.M Mon Oct 03 09:15:31 2005 ENV Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100305\1003701.D Vial: 1
Acq On : 3 Oct 2005 8:49 am Operator: MRC
Sample : DFTPP 50ng Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 9:14 2005 Quant Results File: DFTPP.RES

Method : C:\MSDCHEM\1\DATA\7100305\DFTPP.M (RTE Integrator)
Title :
Last Update : Mon Oct 03 09:15:17 2005
Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\7082505\0825701.D

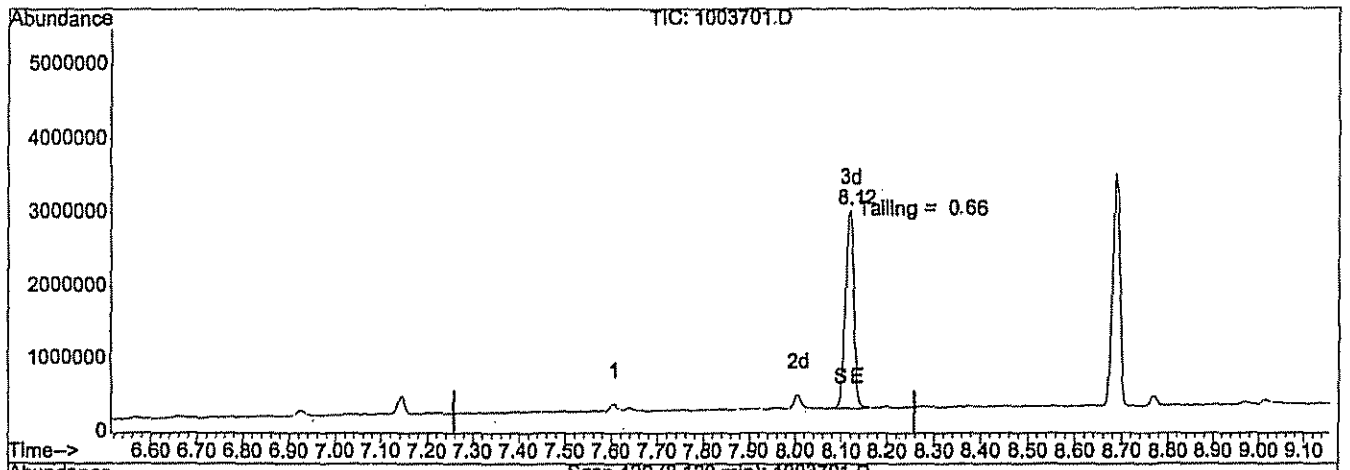


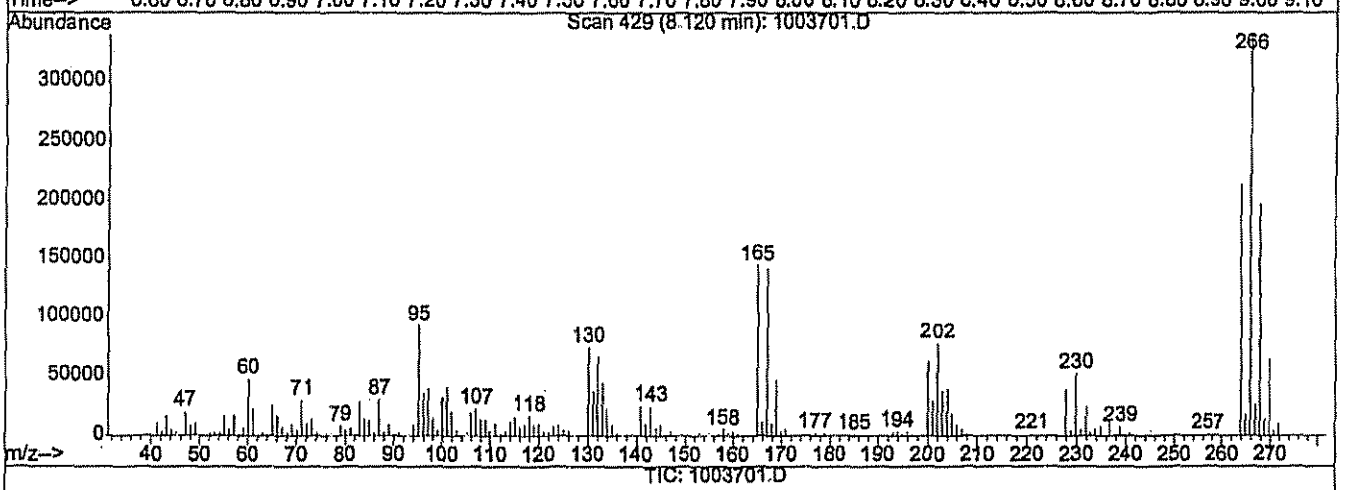
1003701.D DFTPP.M Mon Oct 03 09:15:32 2005 ENV Page 2

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7100305\1003701.D Vial: 1
Acq On : 3 Oct 2005 8:49 am Operator: MRC
Sample : DFTPP 50ng Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 9:14 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7100305\DFTPP.M (RTE Integrator)
Title :
Last Update : Mon Oct 03 09:15:17 2005
Response via : Single Level Calibration





(1) Pentachlorophenol

8.12min 51.35 m

response 3540660

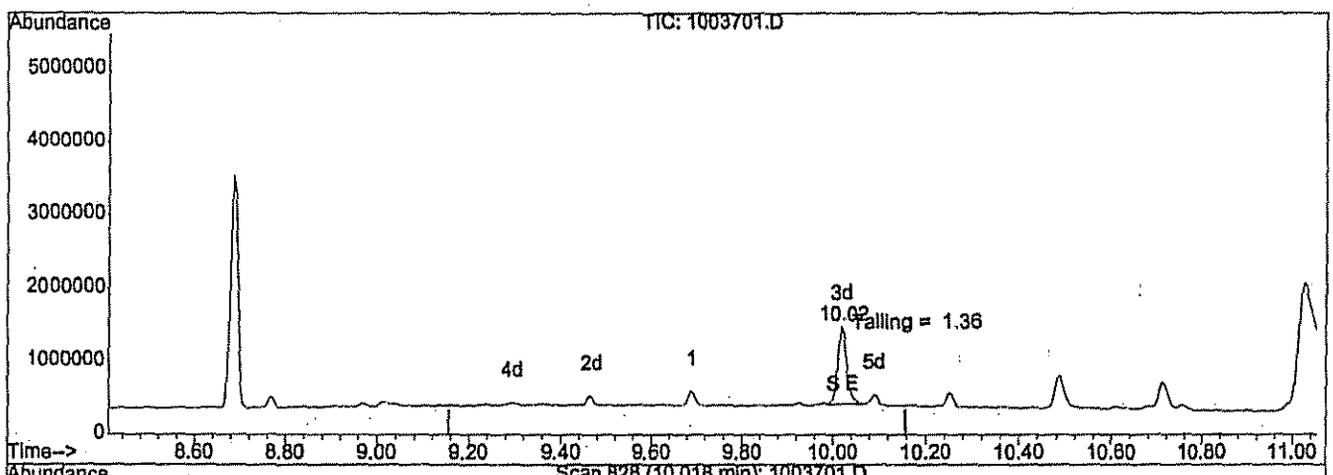
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

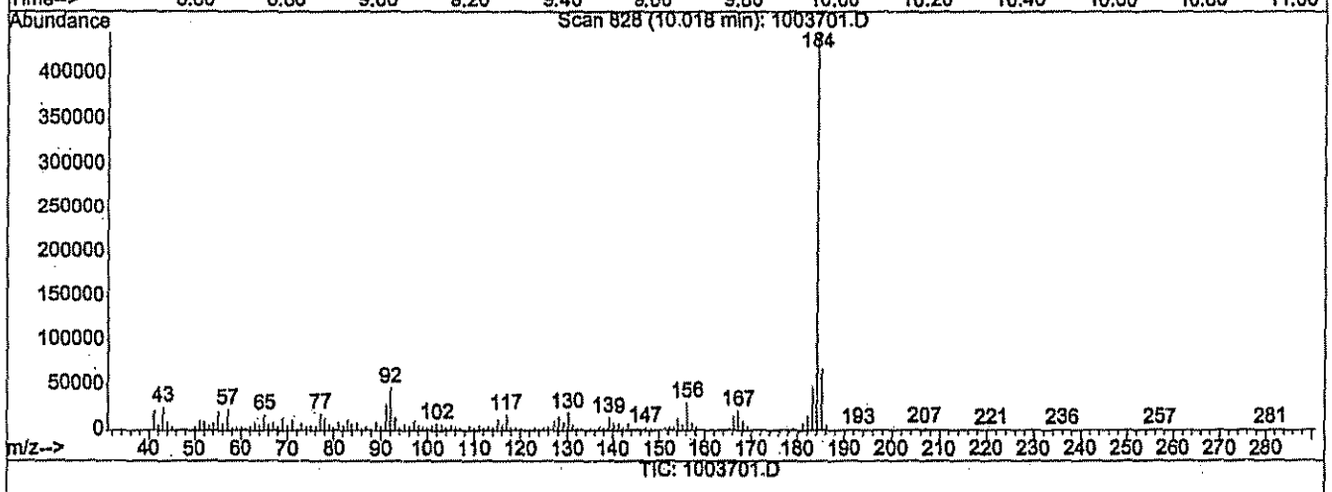
1003701.D DFTPP.M Mon Oct 03 09:29:13 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7100305\1003701.D Vial: 1
Acq On : 3 Oct 2005 8:49 am Operator: MRC
Sample : DFTPP 50ng Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 9:14 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7100305\DFTPP.M (RTE Integrator)
Title :
Last Update : Mon Oct 03 09:15:17 2005
Response via : Single Level Calibration





TIC: 1003701.D

(2) Benzidine

10.02min 67.43 m

response 1412446

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

1003701.D DFTPP.M Mon Oct 03 09:29:22 2005 ENV

DDT Breakdown Report

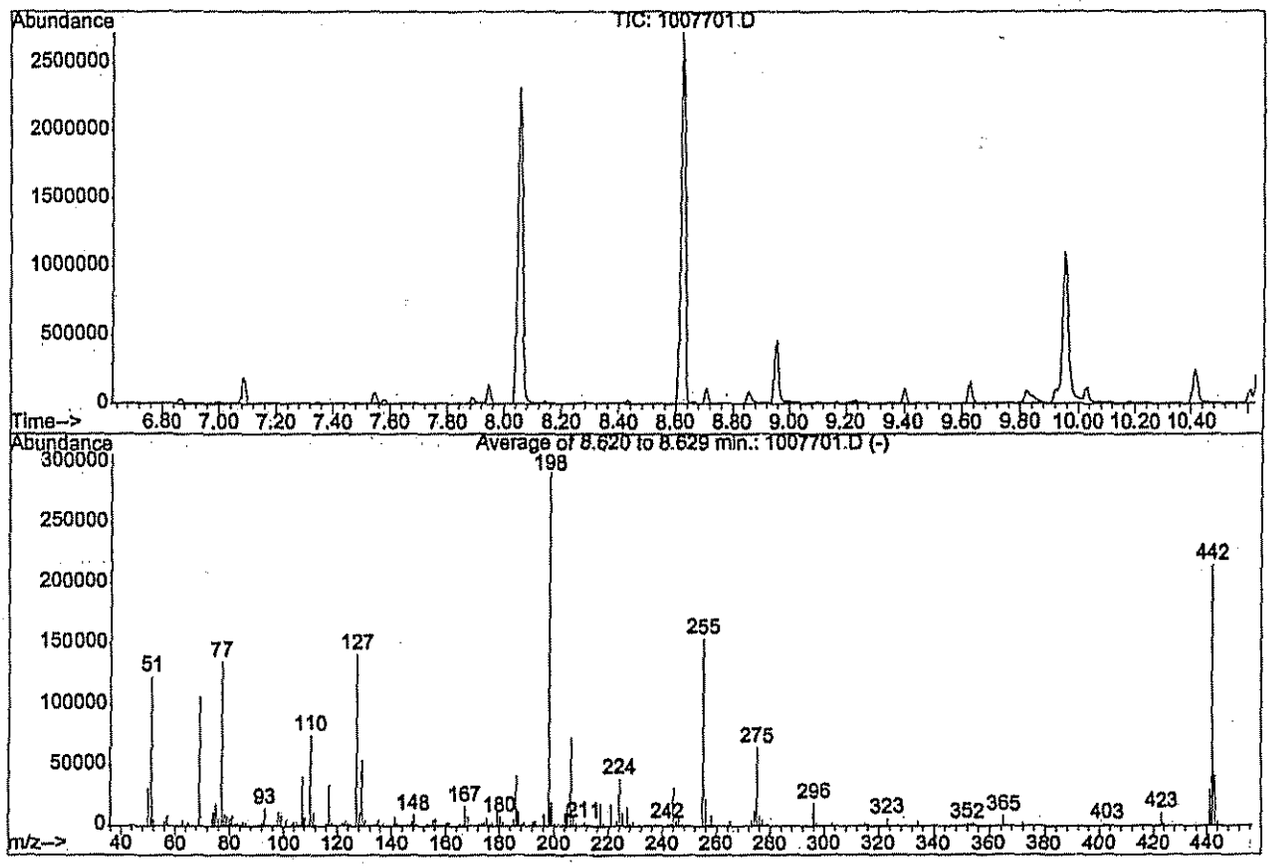
DFTPP TUNE

		Area
GCMS	DDT	4905835
	DDD	470058
	DDE	223858
	% Breakdown =	**12.39%**

Date: 10/03/05
Instrument: MSD7
File: 1003701.d

DFTPP

Data File : C:\MSDCHEM\1\DATA\7100705\1007701.D Vial: 1
Acq On : 7 Oct 2005 10:48 am Operator: MRC
Sample : DFTPP 50ng Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\DATA\7100705\DFTPP.M (RTE Integrator)
Title :



AutoFind: Scans 534, 535, 536; Background Corrected with Scan 527

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	42.0	122296	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	36.5	106472	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	48.2	140557	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	291392	PASS
199	198	5	9	6.7	19592	PASS
275	198	10	30	22.2	64584	PASS
365	198	1	100	2.8	8062	PASS
441	443	0.01	100	73.4	30381	PASS
442	198	40	100	73.8	215058	PASS
443	442	17	23	19.2	41381	PASS

1007701.D DFTPP.M Fri Oct 07 11:03:12 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100705\1007701.D Vial: 1
Acq On : 7 Oct 2005 10:48 am Operator: MRC
Sample : DFTPP 50ng Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 07 13:36:10 2005 Quant Results File: DFTPP.RES

Quant Method : C:\MSDCHEM\1\DATA\7100705\DFTPP.M (RTE Integrator)
Title :
Last Update : Mon Oct 03 09:15:17 2005
Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\7100305\1003701.D
DataAcq Meth : DFTPP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)

Target Compounds					Qvalue
1) Pentachlorophenol	8.05	TIC	2874673	41.69	100
2) Benzidine	9.95	TIC	1569317m	74.92	
3) DDT	11.09	TIC	2418736	29.22	100
4) DDD	10.64	TIC	715247m	127.25	
5) DDE	10.18	TIC	7016m	19.97	

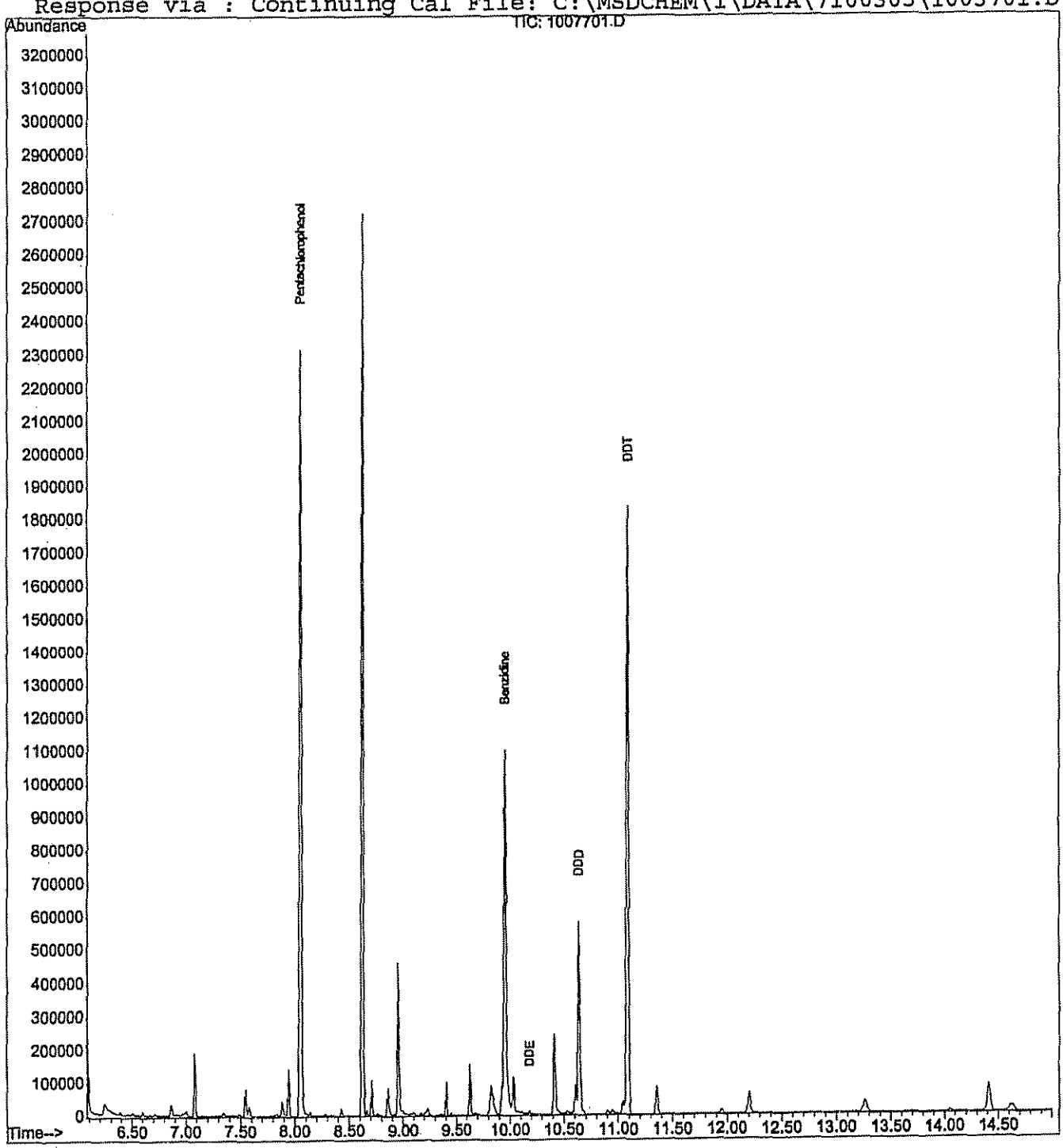
(#) = qualifier out of range (m) = manual integration
1007701.D DFTPP.M Fri Oct 07 13:37:03 2005 ENV Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100705\1007701.D
Acq On : 7 Oct 2005 10:48 am
Sample : DFTPP 50ng
Misc :
MS Integration Params: rteint.p
Quant Time: Oct 7 13:36 2005

Vial: 1
Operator: MRC
Inst : MSD7
Multiplr: 1.00
Quant Results File: DFTPP.RES

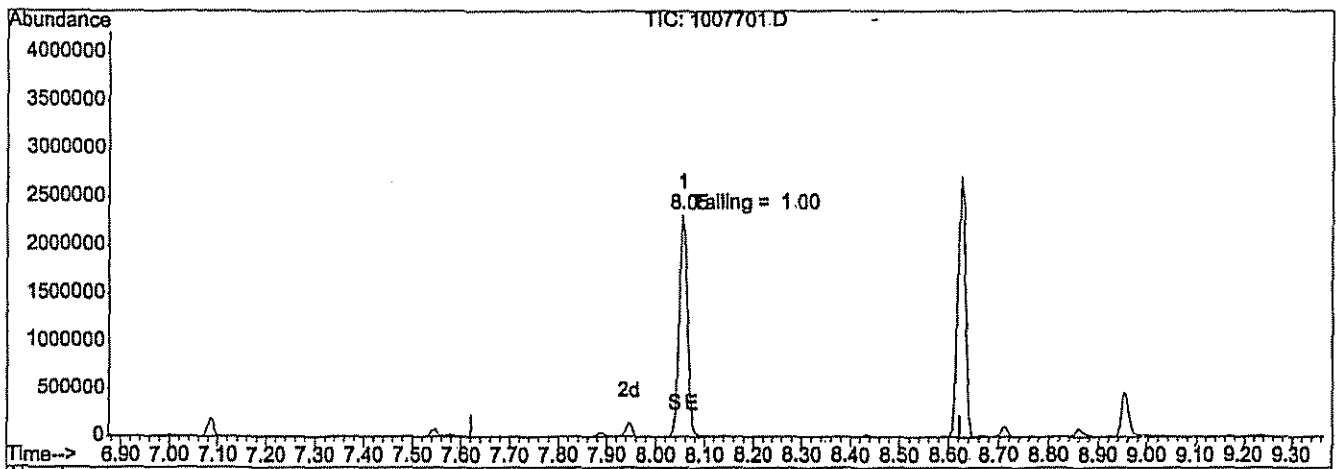
Method : C:\MSDCHEM\1\DATA\7100705\DFTPP.M (RTE Integrator)
Title :
Last Update : Mon Oct 03 09:15:17 2005
Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\7100305\1003701.D

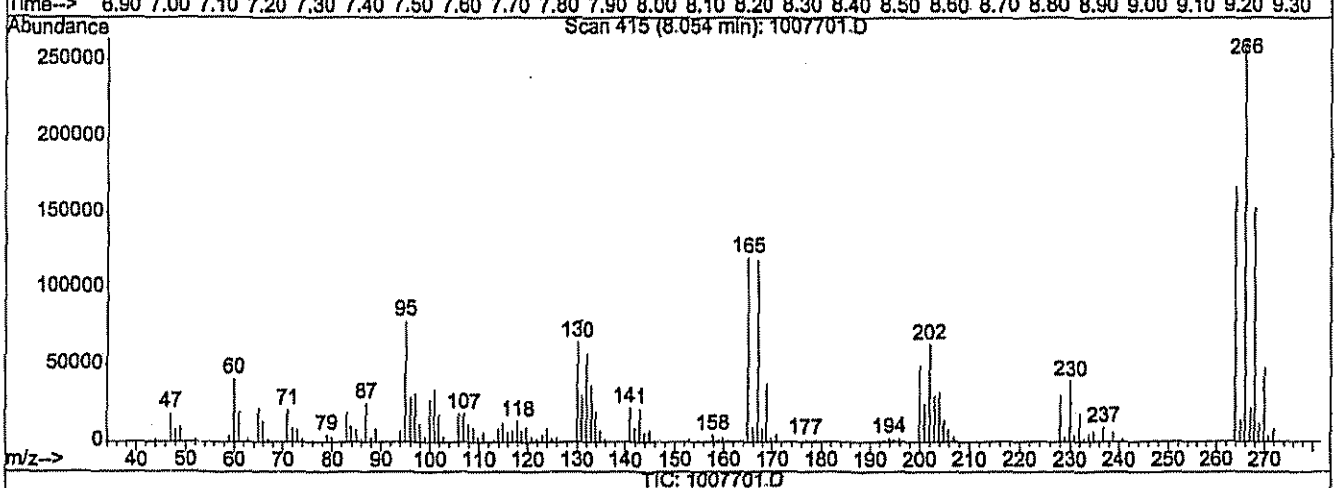


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7100705\1007701.D Vial: 1
Acq On : 7 Oct 2005 10:48 am Operator: MRC
Sample : DFTPP 50ng Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 7 13:36 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7100705\DFTPP.M (RTE Integrator)
Title :
Last Update : Mon Oct 03 09:15:17 2005
Response via : Single Level Calibration





(1) Pentachlorophenol

8.05min 41.69

response 2874673

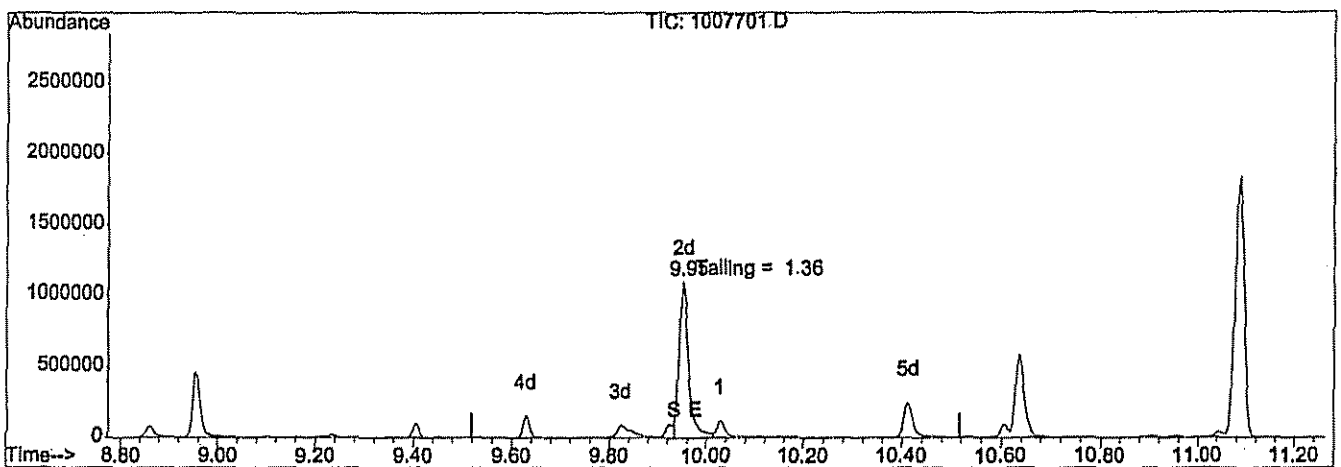
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

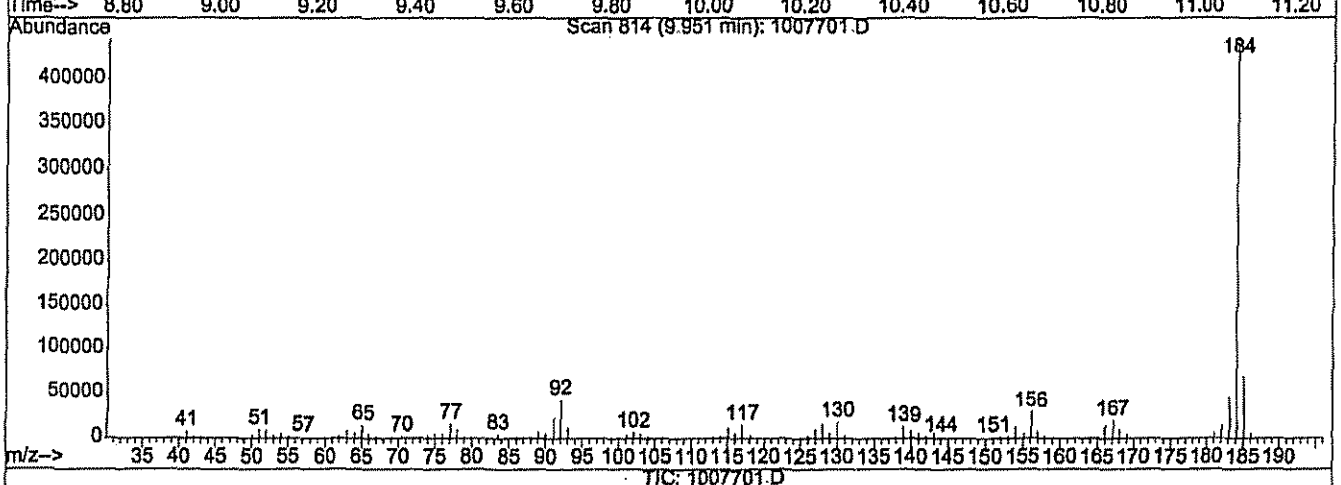
1007701.D DFTPP.M Fri Oct 07 13:37:15 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7100705\1007701.D Vial: 1
Acq On : 7 Oct 2005 10:48 am Operator: MRC
Sample : DFTPP 50ng Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 7 13:36 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7100705\DFTPP.M (RTE Integrator)
Title :
Last Update : Mon Oct 03 09:15:17 2005
Response via : Single Level Calibration





TIC: 1007701.D

(2) Benzidine

9.95min 74.92 m

response 1569317

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

1007701.D DFTPP.M Fri Oct 07 13:37:23 2005 ENV

DDT Breakdown Report

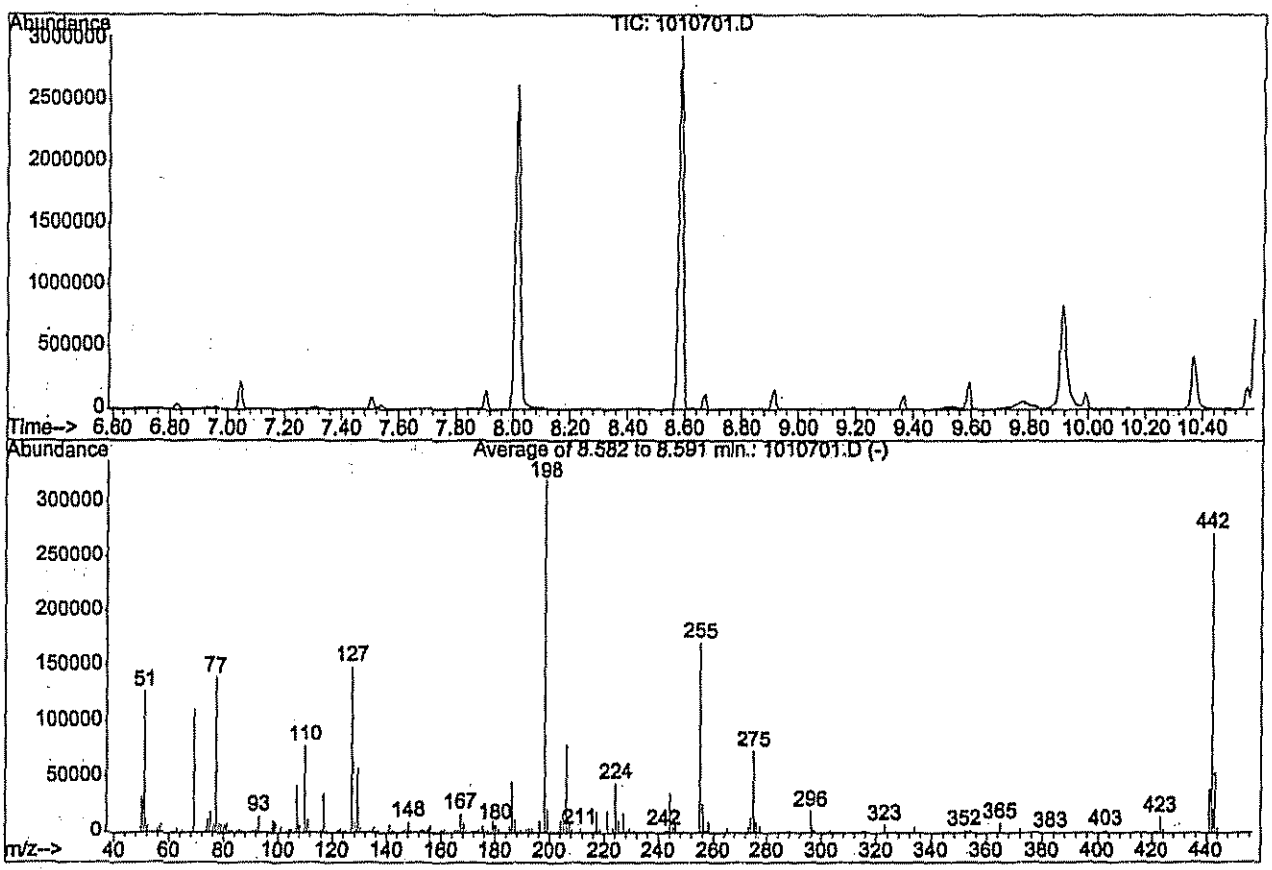
DFTPP TUNE

		Area
GCMS	DDT	2918736
	DDD	715247
	DDE	7016
	% Breakdown =	**19.84%**

Date: 10/07/05
Instrument: MSD7
File: 1007701.d

DFTPP

Data File : C:\MSDCHEM\1\DATA\7101005\1010701.D Vial: 1
Acq On : 10 Oct 2005 4:16 pm Operator: MRC
Sample : DFTPP 50ng Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\DATA\7101005\DFTPP.M (RTE Integrator)
Title :



AutoFind: Scans 526, 527, 528; Background Corrected with Scan 519

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	39.5	126666	PASS
68	69	0.00	2	0.5	568	PASS
69	198	0.00	100	34.7	111336	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	46.6	149269	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	320512	PASS
199	198	5	9	6.7	21602	PASS
275	198	10	30	22.9	73282	PASS
365	198	1	100	2.6	8267	PASS
441	443	0.01	100	72.5	39282	PASS
442	198	40	100	84.9	272042	PASS
443	442	17	23	19.9	54202	PASS

1010701.D DFTPP.M Mon Oct 10 16:31:24 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7101005\1010701.D Vial: 1
Acq On : 10 Oct 2005 4:16 pm Operator: MRC
Sample : DFTPP 50ng Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 10 16:39:54 2005 Quant Results File: DFTPP.RES

Quant Method : C:\MSDCHEM\1\DATA\7101005\DFTPP.M (RTE Integrator)
Title :
Last Update : Mon Oct 03 09:15:17 2005
Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\7100305\1003701.D
DataAcq Meth : DFTPP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)

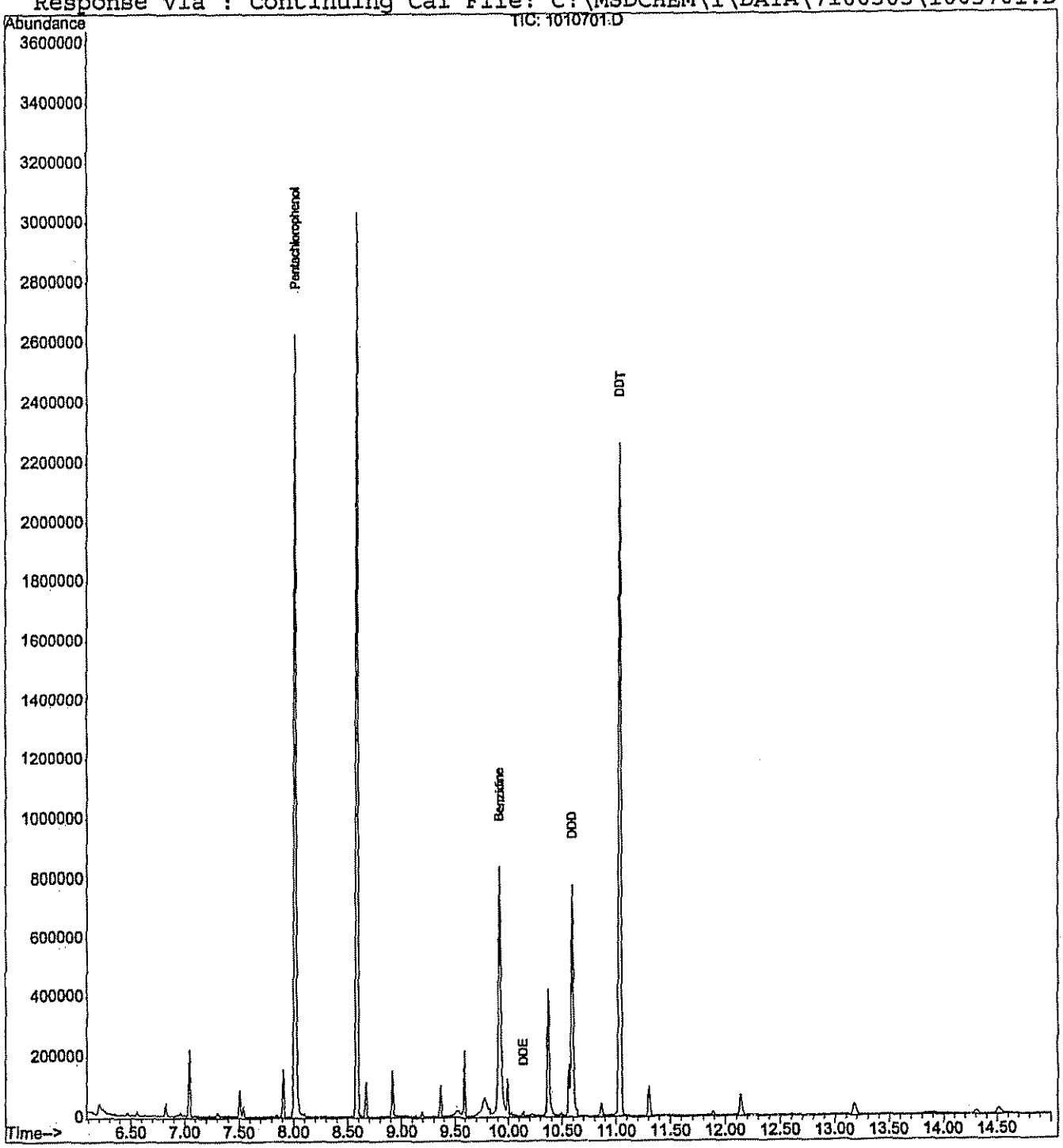
Target Compounds					Qvalue
1) Pentachlorophenol	8.02	TIC	3239880	46.99	100
2) Benzidine	9.91	TIC	1463205m	69.85	
3) DDT	11.04	TIC	3065175m	37.03	
4) DDD	10.59	TIC	869349m	154.67	
5) DDE	10.14	TIC	11310m	32.20	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7101005\1010701.D Vial: 1
Acq On : 10 Oct 2005 4:16 pm Operator: MRC
Sample : DFTPP 50ng Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 10 16:40 2005 Quant Results File: DFTPP.RES

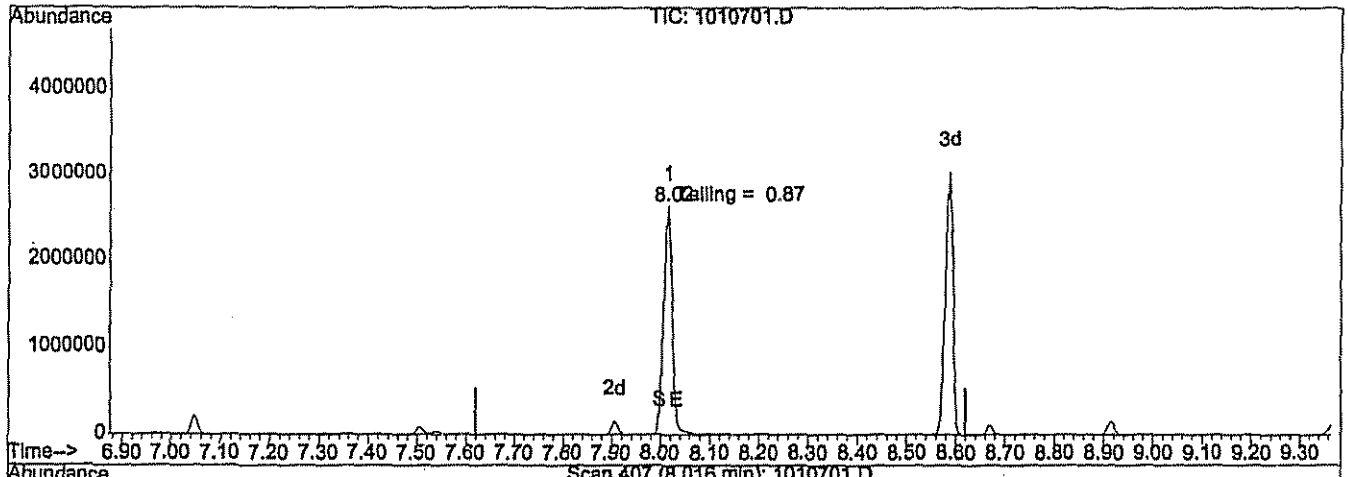
Method : C:\MSDCHEM\1\DATA\7101005\DFTPP.M (RTE Integrator)
Title :
Last Update : Mon Oct 03 09:15:17 2005
Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\7100305\1003701.D

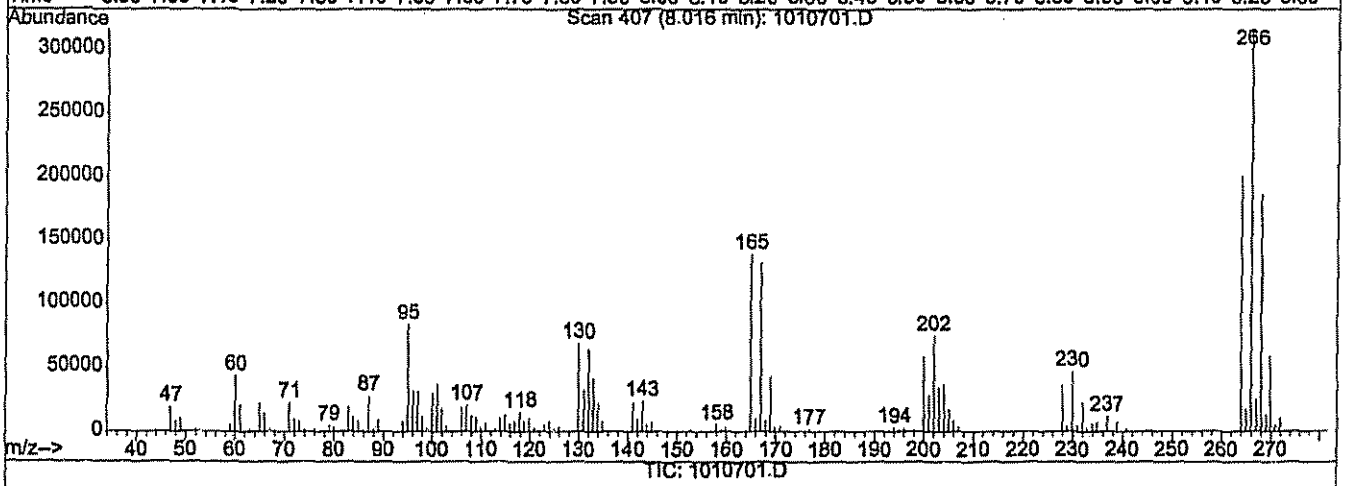


Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7101005\1010701.D Vial: 1
Acq On : 10 Oct 2005 4:16 pm Operator: MRC
Sample : DFTPP 50ng Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 10 16:40 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7101005\DFTPP.M (RTE Integrator)
Title :
Last Update : Mon Oct 03 09:15:17 2005
Response via : Single Level Calibration





TIC: 1010701.D

(1) Pentachlorophenol

8.02min 46.99

response 3239880

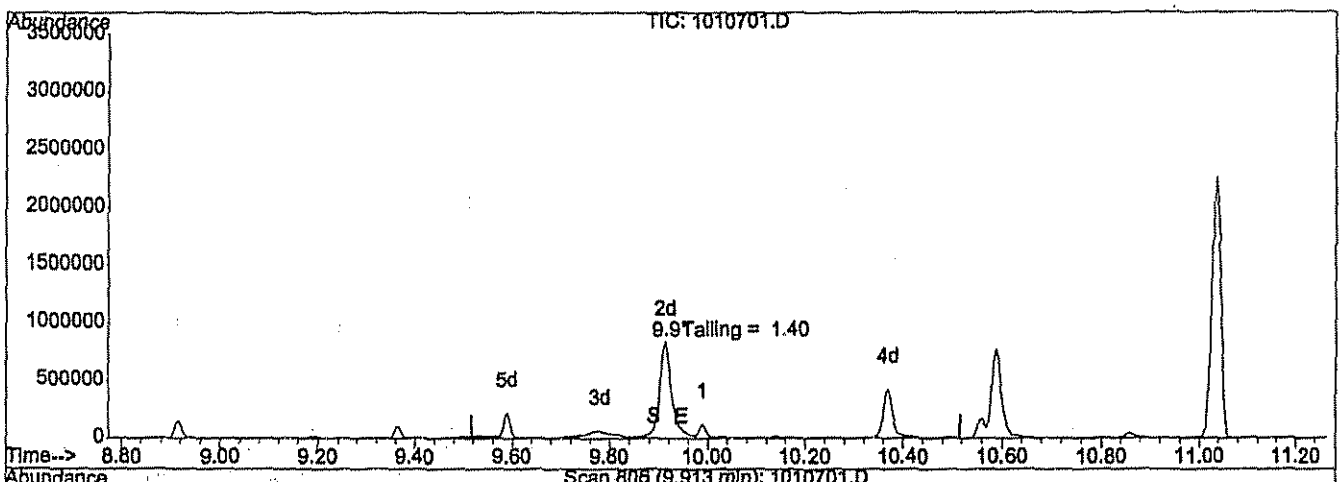
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

1010701.D DFTPP.M Mon Oct 10 16:41:00 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7101005\1010701.D Vial: 1
Acq On : 10 Oct 2005 4:16 pm Operator: MRC
Sample : DFTPP 50ng Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 10 16:40 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7101005\DFTPP.M (RTE Integrator)
Title :
Last Update : Mon Oct 03 09:15:17 2005
Response via : Single Level Calibration



(2) Benzidine

9.91min 69.85 m

response 1463205

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

1010701.D DFTPP.M Mon Oct 10 16:41:10 2005 ENV

8270-625 Calibration Raw Data

Initial Calibration Report
Paradigm Analytical Labs

Instrument ; MSD7
Method ; 8270.M
Matrix ; NA
Cal. Date ; 3 Oct 2005 9:12 am
Last Modified ; Mon Oct 03 14:05:47 2005
Number of levels ; 8

Cal Files by ID
48 ; C:\MSDCHEM\1\DATA\7100305\1003702.D
24 ; C:\MSDCHEM\1\DATA\7100305\1003703.D
12 ; C:\MSDCHEM\1\DATA\7100305\1003704.D
8 ; C:\MSDCHEM\1\DATA\7100305\1003705.D
6 ; C:\MSDCHEM\1\DATA\7100305\1003706.D
4 ; C:\MSDCHEM\1\DATA\7100305\1003707.D
2 ; C:\MSDCHEM\1\DATA\7100305\1003708.D
1 ; C:\MSDCHEM\1\DATA\7100305\1003709.D

Calibration Level ID	48	24	12	8	6	4	2	1	AvgRF	%RSD
Concentration (ppb)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0		
Pyridine		0.837	0.819	0.724	0.547	0.329			0.651	32.801
N-Nitrosodimethylamine		0.564	0.513	0.451	0.417	0.269			0.443	25.379
Phenol	1.474	1.583	1.676	1.660	1.774	1.683	1.798	1.742	1.674	6.319
Bis(2-chloroethyl)ether	1.189	1.212	1.324	1.329	1.436	1.400	1.478	1.596	1.370	9.929
2-Chlorophenol	1.191	1.261	1.311	1.303	1.385	1.325	1.395	1.374	1.318	5.230
Benzyl Alcohol	0.730	0.814	0.851	0.847	0.920	0.850	0.867	0.799	0.835	6.656
1,3-Dichlorobenzene	1.130	1.282	1.344	1.340	1.409	1.387	1.457	1.416	1.346	7.634
1,4-Dichlorobenzene	1.125	1.312	1.379	1.371	1.434	1.406	1.477	1.468	1.371	8.275
1,2-Dichlorobenzene	0.903	1.154	1.236	1.238	1.314	1.281	1.365	1.330	1.228	11.941
2-Methylphenol	0.868	0.951	0.976	0.970	1.012	0.953	1.035	1.012	0.972	5.327
3-, 4-Methylphenol	1.368	1.377	1.417	1.375	1.457	1.337	1.485	1.454	1.409	3.721
Bis(2-chloroisopropyl)ether	1.789	2.107	2.244	2.241	2.378	2.289	2.419	2.338	2.226	9.023
N-Nitrosodi-n-propylamine	0.623	0.751	0.780	0.792	0.821	0.780	0.831	0.793	0.771	8.432
Hexachloroethane	0.391	0.459	0.496	0.493	0.524	0.493	0.520	0.504	0.485	8.827
2-Fluorophenol (surr)	1.040	1.124	1.177	1.151	1.179	1.162	1.220	1.145	1.150	4.561
Phenol-d6 (surr)	1.418	1.515	1.589	1.576	1.679	1.599	1.696	1.652	1.590	5.735
Nitrobenzene	0.254	0.292	0.327	0.322	0.345	0.327	0.348	0.338	0.319	9.828
Isophorone	0.435	0.489	0.532	0.525	0.560	0.532	0.573	0.559	0.526	8.545
2-Nitrophenol	0.162	0.175	0.184	0.180	0.193	0.183	0.199	0.187	0.183	6.155
2,4-Dimethylphenol	0.176	0.174	0.178	0.152	0.154	0.148	0.183	0.187	0.169	9.011
Benzoic Acid	0.207	0.209	0.206	0.191	0.203	0.180	0.173	0.164	0.192	9.018
Bis(2-chloroethoxy)methane	0.292	0.324	0.352	0.350	0.377	0.372	0.398	0.384	0.356	9.735
2,4-Dichlorophenol	0.207	0.227	0.239	0.233	0.248	0.234	0.251	0.250	0.236	6.217
1,2,4-Trichlorobenzene	0.208	0.235	0.254	0.250	0.268	0.261	0.283	0.283	0.255	9.822
Naphthalene	0.649	0.760	0.828	0.826	0.878	0.858	0.930	0.926	0.832	11.103
4-Chloroaniline	0.127	0.108	0.073	0.059	0.068	0.045	0.054	0.047	0.073	40.699
Hexachlorobutadiene	0.097	0.113	0.124	0.122	0.133	0.130	0.135	0.135	0.124	10.567
4-Chloro-3-methylphenol	0.216	0.238	0.258	0.249	0.262	0.241	0.261	0.265	0.249	6.733
2-Methylnaphthalene	0.479	0.568	0.618	0.614	0.654	0.630	0.688	0.680	0.616	10.978
Nitrobenzene-d5 (surr)	0.135	0.143	0.151	0.148	0.160	0.152	0.160	0.155	0.150	5.607
Hexachlorocyclopentadiene	0.111	0.098	0.090	0.082	0.085	0.074	0.076		0.088	14.719
2,4,6-Trichlorophenol	0.322	0.332	0.345	0.342	0.359	0.349	0.378	0.368	0.349	5.255
2,4,5-Trichlorophenol	0.306	0.335	0.373	0.365	0.383	0.369	0.393	0.388	0.364	8.100
2-Chloronaphthalene	0.853	0.946	1.012	1.020	1.073	1.071	1.160	1.148	1.035	9.876
2-Nitroaniline	0.317	0.347	0.328	0.313	0.330	0.298	0.326	0.335	0.324	4.603
3-Nitroaniline		0.026	0.026	0.028	0.029	0.027	0.023	0.007	0.023	32.673
1-Methylnaphthalene	1.010	1.183	1.268	1.276	1.344	1.348	1.445	1.434	1.288	11.057
Dimethylphthalate	1.061	1.103	1.161	1.165	1.228	1.222	1.300	1.323	1.195	7.589
Acenaphthylene		1.139	1.396	1.460	1.536	1.542	1.663	1.660	1.485	12.178
2,6-Dinitrotoluene	0.253	0.261	0.273	0.268	0.285	0.273	0.280	0.267	0.270	3.830
Acenaphthene	0.828	0.948	1.017	1.029	1.076	1.062	1.149	1.150	1.032	10.301
2,4-Dinitrophenol	0.178	0.183	0.183	0.178	0.183	0.167	0.176	0.168	0.177	3.730
4-Nitrophenol	0.144	0.153	0.149	0.143	0.150	0.133	0.122	0.124	0.140	8.667
Dibenzofuran	1.165	1.309	1.423	1.446	1.535	1.516	1.664	1.684	1.468	11.848
2,4-Dinitrotoluene	0.276	0.294	0.324	0.328	0.350	0.337	0.365	0.359	0.329	9.479
Fluorene		0.935	1.054	1.072	1.137	1.097	1.197	1.244	1.105	9.166
Diethylphthalate	0.969	1.081	1.170	1.189	1.248	1.239	1.338	1.339	1.196	10.509
4-Chlorophenyl phenyl ether		0.439	0.494	0.503	0.535	0.536	0.570	0.593	0.524	9.728
4-Nitroaniline			0.164	0.131	0.142	0.125	0.143	0.134	0.140	9.792
2-Fluorobiphenyl (surr)	0.957	1.096	1.172	1.173	1.238	1.239	1.348	1.313	1.192	10.446
2,4,6-Tribromophenol (surr)	0.130	0.130	0.130	0.124	0.127	0.117	0.120	0.121	0.125	4.257
4,6-Dinitro-2-methylphenol	0.134	0.139	0.140	0.138	0.143	0.131	0.130	0.119	0.134	5.665
Diphenylamine			0.193	0.214	0.218	0.240	0.294	0.322	0.247	20.399
4-bromophenyl phenyl ether	0.137	0.165	0.178	0.177	0.189	0.181	0.198	0.190	0.177	10.770
Hexachlorobenzene	0.145	0.161	0.170	0.168	0.176	0.172	0.185	0.183	0.170	7.602
Pentachlorophenol	0.116	0.129	0.127	0.125	0.131	0.120	0.125	0.116	0.124	4.593
Phenanthrene	0.820	0.959	1.036	1.036	1.089	1.079	1.180	1.187	1.048	11.386

Carbazole			0.526	0.593	0.651	0.673	0.757	0.781	0.663	14.563
Anthracene	0.743	0.915	0.975	0.980	1.026	1.016	1.089	1.100	0.981	11.554
Azobenzene	0.584	0.702	0.787	0.797	0.842	0.836	0.900	0.886	0.792	13.186
Di-n-Butylphthalate	0.931	1.139	1.245	1.270	1.359	1.376	1.495	1.477	1.287	14.500
Fluoranthene	0.814	0.936	0.995	0.984	1.049	1.015	1.096	1.098	0.998	9.312
alpha-BHC	0.084	0.103	0.115	0.117	0.128	0.126	0.137	0.133	0.118	14.938
beta-BHC	0.072	0.095	0.104	0.106	0.112	0.108	0.116	0.110	0.103	13.616
gamma-BHC	0.079	0.093	0.102	0.104	0.111	0.111	0.116	0.115	0.104	12.227
delta-BHC	0.064	0.086	0.097	0.097	0.104	0.100	0.107	0.101	0.095	14.559
Heptachlor	0.083	0.113	0.128	0.129	0.136	0.136	0.142	0.139	0.126	15.443
Aldrin	0.079	0.111	0.131	0.137	0.144	0.145	0.153	0.152	0.131	19.110
Heptachlor Epoxide	0.042	0.045	0.045	0.042	0.044	0.044	0.043	0.037	0.043	5.663
Endosulfan I	0.022	0.028	0.033	0.034	0.036	0.036	0.034	0.029	0.031	14.560
4,4'-DDE	0.139	0.175	0.191	0.188	0.197	0.192	0.211	0.206	0.187	12.027
Dieldrin	0.112	0.149	0.172	0.178	0.188	0.188	0.202	0.195	0.173	16.954
Endrin	0.027	0.030	0.030	0.029	0.032	0.029	0.030	0.026	0.029	6.220
Endosulfan II	Not Calibrated									
4,4'-DDD	0.242	0.313	0.340	0.337	0.356	0.346	0.373	0.375	0.335	12.735
Endosulfan Sulfate	0.025	0.036	0.041	0.043	0.045	0.045	0.048	0.043	0.041	17.829
4,4'-DDT	0.170	0.218	0.232	0.232	0.246	0.236	0.237	0.238	0.226	10.667
Endrin Aldehyde	Not Calibrated									
Endrin Ketone	0.024	0.031	0.033	0.031	0.032	0.032	0.031	0.024	0.030	11.745
Methoxychlor	0.300	0.399	0.439	0.450	0.481	0.458	0.477	0.480	0.436	14.022
Pyrene	1.395	1.464	1.543	1.524	1.580	1.540	1.713	1.702	1.557	6.958
Butylbenzylphthalate	0.729	0.797	0.848	0.851	0.890	0.885	0.972	0.956	0.866	9.202
Benzo[a]anthracene	1.135	1.194	1.206	1.193	1.259	1.217	1.300	1.295	1.225	4.579
3,3'-Dichlorobenzidine	0.150	0.138	0.102	0.089	0.093	0.074	0.069	0.061	0.097	33.044
Chrysene	0.833	1.005	1.123	1.123	1.187	1.170	1.257	1.241	1.117	12.467
Bis(2-ethylhexyl)phthalate		0.951	1.139	1.154	1.229	1.267	1.429	1.431	1.229	13.822
4-Terphenyl-d14 (surr)	0.948	1.010	1.045	1.026	1.064	1.018	1.118	1.094	1.041	5.107
Di-n-octylphthalate	2.216	2.626	2.826	2.704	2.651	2.658	3.119	2.984	2.723	9.933
Benzo[b]fluoranthene	1.554	1.530	1.470	1.389	1.413	1.358	1.465	1.438	1.452	4.606
Benzo[k]fluoranthene	1.125	1.285	1.431	1.422	1.432	1.351	1.463	1.419	1.366	8.244
Benzo[a]pyrene	1.106	1.200	1.207	1.178	1.237	1.169	1.194	1.209	1.187	3.284
Indeno(1,2,3-c,d)pyrene	0.886	0.848	0.779	0.705	0.816	0.803	0.715	0.716	0.783	8.594
Dibenzo[a,h]anthracene	0.816	0.830	0.786	0.714	0.821	0.782	0.679	0.662	0.761	8.773
Benzo[g,h,i]perylene	0.807	0.803	0.762	0.691	0.803	0.813	0.715	0.700	0.762	6.853

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100305\1003702.D Vial: 2
Acq On : 3 Oct 2005 9:12 am Operator: MRC
Sample : SVCAL48 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 03 09:48:29 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7100305\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Mon Oct 03 09:48:22 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.69	152	248966	4.00	ug/mL	0.00
19) Naphthalene-D8	9.64	136	1066197	4.00	ug/mL	0.00
34) Acenaphthene-d10	12.46	164	505901	4.00	ug/mL	0.00
56) Phenanthrene-D10	14.89	188	870305	4.00	ug/mL	0.00
86) Chrysene-D12	19.21	240	483222	4.00	ug/mL	0.00
94) Perylene-D12	21.88	264	366113	4.00	ug/mL	0.00
System Monitoring Compounds						
17) 2-Fluorophenol (surr)	5.89	112	3108010	43.77	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	437.70%	
18) Phenol-d6 (surr)	7.18	99	4237668	43.14	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	431.40%	
33) Nitrobenzene-d5 (surr)	8.56	128	1729405	43.54	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	435.40%	
54) 2-Fluorobiphenyl (surr)	11.39	172	5808900	37.96	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	379.60%	
55) 2,4,6-Tribromophenol (surr	13.77	330	790338	54.25	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	542.50%	
93) 4-Terphenyl-d14 (surr)	17.52	244	5495733	38.79	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	387.90%	

Target Compounds						Qvalue
2) Pyridine	4.47	79	1553567	21.25	ug/mL	89
3) N-Nitrosodimethylamine	4.54	74	617182	14.92	ug/mL#	61
4) Phenol	7.21	94	4404360	41.47	ug/mL	99
5) Aniline	7.23	93	1047363	95.99	ug/mL#	100
6) Bis(2-chloroethyl)ether	7.35	93	3552510m	41.14	ug/mL	
7) 2-Chlorophenol	7.39	128	3558870	43.58	ug/mL	99
8) Benzyl Alcohol	7.93	108	2180058	42.39	ug/mL	98
9) 1,3-Dichlorobenzene	7.62	146	3375537	39.73	ug/mL	100
10) 1,4-Dichlorobenzene	7.73	146	3359865	38.72	ug/mL	99
11) 1,2-Dichlorobenzene	7.95	146	2698217	34.83	ug/mL	100
12) 2-Methylphenol	8.08	107	2593328	43.25	ug/mL	97
13) 3-, 4-Methylphenol	8.34	107	4086528m	47.86	ug/mL	
14) Bis(2-chloroisopropyl)ethe	8.12	45	5344755	35.91	ug/mL	95
15) N-Nitrosodi-n-propylamine	8.38	70	1860574	38.79	ug/mL	97
16) Hexachloroethane	8.44	117	1167614	37.38	ug/mL	92
20) Nitrobenzene	8.59	77	3255368	36.82	ug/mL	98
21) Isophorone	8.98	82	5571909	37.86	ug/mL	98
22) 2-Nitrophenol	9.06	139	2076483	43.33	ug/mL	94
23) 2,4-Dimethylphenol	9.14	122	2252731	49.27	ug/mL	100
24) Benzoic Acid	9.51	122	2648783m	62.75	ug/mL	

(#) = qualifier out of range (m) = manual integration
1003702.D 8270.M Mon Oct 03 14:37:52 2005 ENV Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100305\1003702.D Vial: 2
Acq On : 3 Oct 2005 9:12 am Operator: MRC
Sample : SVCAL48 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 03 09:48:29 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7100305\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Mon Oct 03 09:48:22 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25)	Bis(2-chloroethoxy)methane	9.30	93	3735205	37.91	ug/mL	99
26)	2,4-Dichlorophenol	9.44	162	2649070	43.22	ug/mL	98
27)	1,2,4-Trichlorobenzene	9.56	180	2663184	39.10	ug/mL	99
28)	Naphthalene	9.69	128	8308976	37.10	ug/mL	100
29)	4-Chloroaniline	9.81	127	1623761m	108.69	ug/mL	
30)	Hexachlorobutadiene	9.87	225	1245685	36.79	ug/mL	100
31)	4-Chloro-3-methylphenol	10.55	107	2760607	41.93	ug/mL	97
32)	2-Methylnaphthalene	10.79	142	6129170	37.14	ug/mL	100
35)	Hexachlorocyclopentadiene	11.02	237	671083	97.35	ug/mL	98
36)	2,4,6-Trichlorophenol	11.25	196	1954596	46.09	ug/mL	98
37)	2,4,5-Trichlorophenol	11.30	196	1855309	42.35	ug/mL	99
38)	2-Chloronaphthalene	11.58	162	5175976	39.20	ug/mL	99
39)	2-Nitroaniline	11.76	65	1926388	47.82	ug/mL	87
40)	3-Nitroaniline	12.46	138	639866	190.66	ug/mL#	1
41)	1-Methylnaphthalene	10.79	142	6129170	42.15	ug/mL	97
42)	Dimethylphthalate	12.09	163	6444067	42.24	ug/mL	100
43)	Acenaphthylene	12.24	152	5602075	29.14	ug/mL	99
44)	2,6-Dinitrotoluene	12.18	165	1534176	45.93	ug/mL	97
45)	Acenaphthene	12.53	153	5029419	38.24	ug/mL	99
46)	2,4-Dinitrophenol	12.64	184	1081406	59.48	ug/mL#	85
47)	4-Nitrophenol	12.74	109	875521	73.54	ug/mL	95
48)	Dibenzofuran	12.82	168	7070012	37.95	ug/mL	95
49)	2,4-Dinitrotoluene	12.84	165	1673091	40.61	ug/mL	94
50)	Fluorene	13.37	166	4419278	31.90	ug/mL	97
51)	Diethylphthalate	13.24	149	5882135	38.03	ug/mL	98
52)	4-Chlorophenyl phenyl ethe	13.39	204	2008322	29.96	ug/mL	91
53)	4-Nitroaniline	13.46	138	567163m	61.29	ug/mL	
57)	4,6-Dinitro-2-methylphenol	13.50	198	1398314	55.81	ug/mL	92
58)	Diphenylamine	13.59	169	1137181	18.09	ug/mL	94
59)	4-bromophenyl phenyl ether	14.19	248	1426866	35.88	ug/mL	94
60)	Hexachlorobenzene	14.27	284	1509453	38.87	ug/mL	97
61)	Pentachlorophenol	14.58	266	1208412	57.97	ug/mL	99
62)	Phenanthrene	14.95	178	8559982	37.14	ug/mL	99
63)	Carbazole	15.27	167	4014878	33.65	ug/mL	97
64)	Anthracene	15.03	178	7764600	35.85	ug/mL	100
65)	Azobenzene	13.64	77	6097886	31.96	ug/mL	96
66)	Di-n-Butylphthalate	15.88	149	9724197	33.12	ug/mL	99
67)	Fluoranthene	16.88	202	8497056	40.35	ug/mL	97
68)	alpha-BHC	14.20	183	874133	32.62	ug/mL	95
69)	beta-BHC	14.56	181	749761	32.19	ug/mL	92
70)	gamma-BHC	14.67	183	820616	34.87	ug/mL	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100305\1003702.D Vial: 2
Acq On : 3 Oct 2005 9:12 am Operator: MRC
Sample : SVCAL48 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 03 09:48:29 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7100305\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Mon Oct 03 09:48:22 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	delta-BHC	15.06	183	670474	30.88 ug/mL	99
72)	Heptachlor	15.69	100	871006	32.32 ug/mL	87
73)	Aldrin	16.20	66	825149	24.73 ug/mL	87
74)	Heptachlor Epoxide	16.71	353	435954	44.64 ug/mL	100
75)	Endosulfan I	17.23	195	234312	32.50 ug/mL#	85
76)	4,4'-DDE	17.41	246	1447451	35.28 ug/mL	100
77)	Dieldrin	17.56	79	1173627	27.56 ug/mL	95
78)	Endrin	17.85	263	284635	60.49 ug/mL	87
79)	Endosulfan II	0.00	35	0	N.D.	
80)	4,4'-DDD	17.96	235	2527141	36.05 ug/mL	100
81)	Endosulfan Sulfate	18.46	272	262197	29.32 ug/mL	91
82)	4,4'-DDT	18.44	235	1772420	47.90 ug/mL	99
83)	Endrin Aldehyde	0.00	35	0	N.D.	
84)	Endrin Ketone	19.09	317	252825	42.81 ug/mL	98
85)	Methoxychlor	19.10	227	3137077	44.27 ug/mL	99
87)	Pyrene	17.27	202	8087589	38.83 ug/mL	95
88)	Butylbenzylphthalate	18.33	149	4227856	35.56 ug/mL	92
89)	Benzo[a]anthracene	19.19	228	6581489	45.16 ug/mL	100
90)	3,3'-Dichlorobenzidine	19.16	252	870782	99.16 ug/mL#	92
91)	Chrysene	19.26	228	4831752	34.70 ug/mL	99
92)	Bis(2-ethylhexyl)phthalate	19.24	149	3847200	23.01 ug/mL#	92
95)	Di-n-octylphthalate	20.36	149	9735616	28.61 ug/mL	100
96)	Benzo[b]fluoranthene	21.11	252	6825387	50.03 ug/mL	99
97)	Benzo[k]fluoranthene	21.16	252	4942601m	35.07 ug/mL	
98)	Benzo[a]pyrene	21.79	252	4857170	44.60 ug/mL	97
99)	Indeno(1,2,3-c,d)pyrene	24.86	276	3891887	78.02 ug/mL	99
100)	Dibenzo[a,h]anthracene	24.97	278	3584670	72.66 ug/mL	95
101)	Benzo[g,h,i]perylene	25.79	276	3543711	68.65 ug/mL	97

(#) = qualifier out of range (m) = manual integration

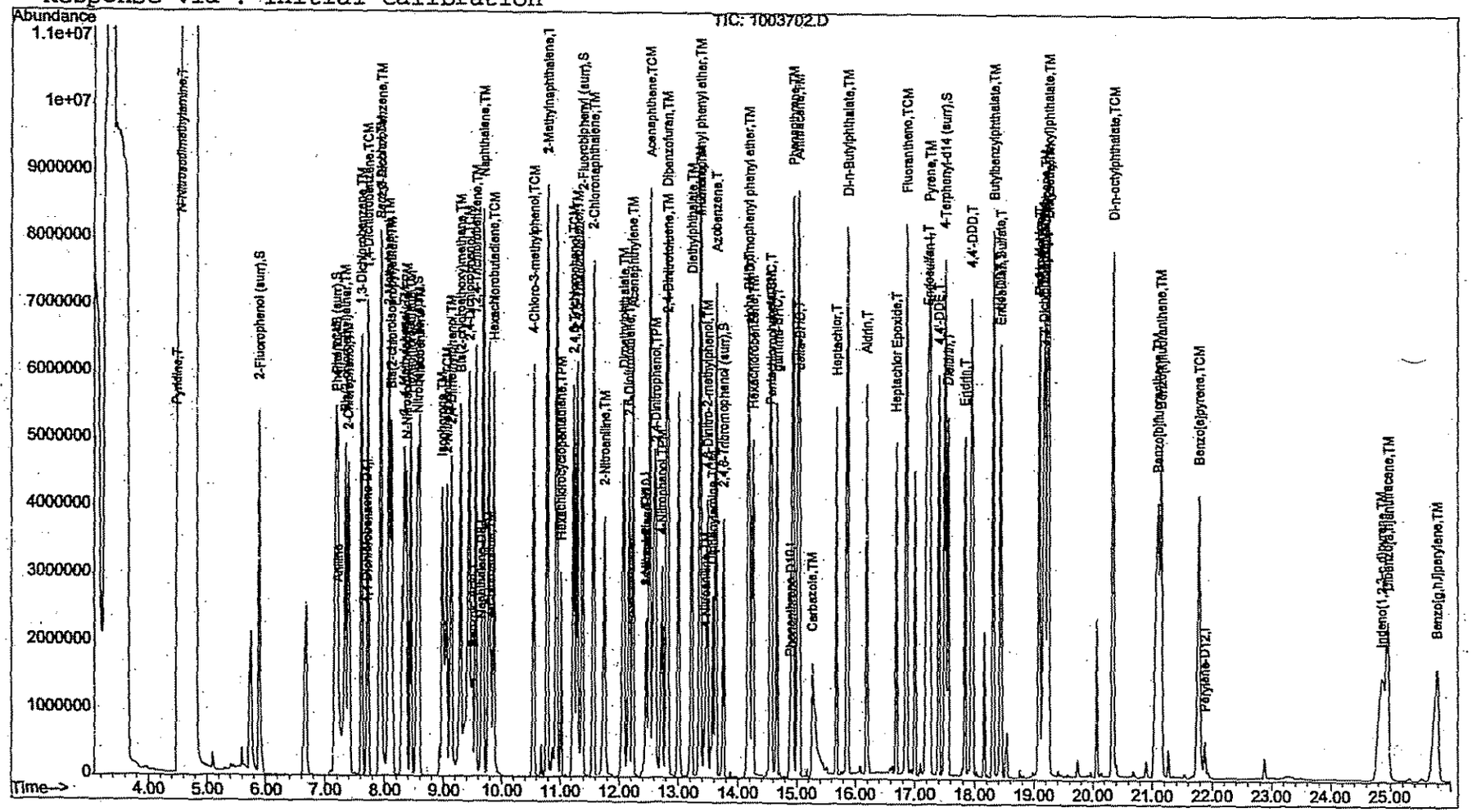
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100305\1003702.D
Acq On : 3 Oct 2005 9:12 am
Sample : SVCAL48
Misc :
MS Integration Params: rteint.p
Quant Time: Oct 3 9:49 2005

Vial: 2
Operator: MRC
Inst : MSD7
Multiplr: 1.00

Quant Results File: 8270.RES

Method : C:\MSDCHEM\1\DATA\7100305\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Mon Oct 03 14:11:55 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100305\1003703.D Vial: 3
Acq On : 3 Oct 2005 1:35 pm Operator: MRC
Sample : SVCAL24 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 03 14:05:54 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7100305\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Mon Oct 03 14:05:47 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.68	152	195928	4.00	ug/mL	0.00
19) Naphthalene-D8	9.63	136	823661	4.00	ug/mL	0.00
34) Acenaphthene-d10	12.45	164	395337	4.00	ug/mL	0.00
56) Phenanthrene-D10	14.87	188	648547	4.00	ug/mL	0.00
86) Chrysene-D12	19.18	240	406844	4.00	ug/mL	0.00
94) Perylene-D12	21.86	264	297266	4.00	ug/mL	0.00
System Monitoring Compounds						
17) 2-Fluorophenol (surr)	5.85	112	1321490	23.35	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	233.50%	
18) Phenol-d6 (surr)	7.14	99	1780867	22.76	ug/mL	0.01
Spiked Amount 10.000			Recovery	=	227.60%	
33) Nitrobenzene-d5 (surr)	8.53	128	707861	22.78	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	227.80%	
54) 2-Fluorobiphenyl (surr)	11.38	172	2600568	22.01	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	220.10%	
55) 2,4,6-Tribromophenol (surr	13.74	330	309158	25.03	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	250.30%	
93) 4-Terphenyl-d14 (surr)	17.49	244	2465728	22.49	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	224.90%	

Target Compounds						Qvalue
2) Pyridine	4.37	79	984120	24.30	ug/mL	85
3) N-Nitrosodimethylamine	4.36	74	662608	29.87	ug/mL#	89
4) Phenol	7.17	94	1861498	22.60	ug/mL	98
5) Aniline	7.26	93	517626	40.25	ug/mL	89
6) Bis(2-chloroethyl)ether	7.32	93	1424861m	21.07	ug/mL	
7) 2-Chlorophenol	7.38	128	1482274	22.88	ug/mL	97
8) Benzyl Alcohol	7.91	108	957218	23.31	ug/mL	98
9) 1,3-Dichlorobenzene	7.60	146	1507309	22.76	ug/mL	99
10) 1,4-Dichlorobenzene	7.71	146	1542063	22.83	ug/mL	99
11) 1,2-Dichlorobenzene	7.93	146	1356388	22.51	ug/mL	98
12) 2-Methylphenol	8.05	107	1118313	23.50	ug/mL	98
13) 3-, 4-Methylphenol	8.30	107	1618725	23.52	ug/mL	99
14) Bis(2-chloroisopropyl)ethe	8.10	45	2477146	22.51	ug/mL	99
15) N-Nitrosodi-n-propylamine	8.33	70	882396	23.42	ug/mL	99
16) Hexachloroethane	8.44	117	539662	22.55	ug/mL	94
20) Nitrobenzene	8.56	77	1445221	21.87	ug/mL	97
21) Isophorone	8.94	82	2414834	22.14	ug/mL	99
22) 2-Nitrophenol	9.05	139	864007	22.88	ug/mL	95
23) 2,4-Dimethylphenol	9.11	122	859536	24.59	ug/mL	99
24) Benzoic Acid	9.38	122	1031290m	26.50	ug/mL	

(#) = qualifier out of range (m) = manual integration
1003703.D 8270.M Mon Oct 03 14:37:59 2005 ENV Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100305\1003703.D Vial: 3
Acq On : 3 Oct 2005 1:35 pm Operator: MRC
Sample : SVCAL24 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 03 14:05:54 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7100305\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Mon Oct 03 14:05:47 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25)	Bis(2-chloroethoxy)methane	9.27	93	1602638	21.68	ug/mL	99
26)	2,4-Dichlorophenol	9.42	162	1120487	23.02	ug/mL	98
27)	1,2,4-Trichlorobenzene	9.54	180	1159871	21.96	ug/mL	99
28)	Naphthalene	9.67	128	3756170	21.81	ug/mL	100
29)	4-Chloroaniline	9.81	127	535367m	38.41	ug/mL	
30)	Hexachlorobutadiene	9.86	225	558501	21.80	ug/mL	99
31)	4-Chloro-3-methylphenol	10.53	107	1177031	22.90	ug/mL	98
32)	2-Methylnaphthalene	10.78	142	2805218	22.02	ug/mL	100
35)	Hexachlorocyclopentadiene	11.01	237	232184	28.35	ug/mL	98
36)	2,4,6-Trichlorophenol	11.23	196	788234	22.84	ug/mL	99
37)	2,4,5-Trichlorophenol	11.28	196	795167	22.03	ug/mL	98
38)	2-Chloronaphthalene	11.56	162	2243422	21.86	ug/mL	98
39)	2-Nitroaniline	11.74	65	822606	25.72	ug/mL	99
40)	3-Nitroaniline	12.80	138	60642	18.17	ug/mL#	82
41)	1-Methylnaphthalene	10.78	142	2805218	22.29	ug/mL	99
42)	Dimethylphthalate	12.05	163	2616155	22.06	ug/mL	100
43)	Acenaphthylene	12.23	152	2702540	19.09	ug/mL	99
44)	2,6-Dinitrotoluene	12.15	165	618925	23.16	ug/mL	96
45)	Acenaphthene	12.51	153	2248489	21.96	ug/mL	100
46)	2,4-Dinitrophenol	12.60	184	433671	25.16	ug/mL	96
47)	4-Nitrophenol	12.69	109	363321	26.89	ug/mL	98
48)	Dibenzofuran	12.80	168	3105120	21.30	ug/mL	98
49)	2,4-Dinitrotoluene	12.80	165	696291	21.28	ug/mL	95
50)	Fluorene	13.35	166	2216949	20.97	ug/mL	100
51)	Diethylphthalate	13.20	149	2563420	21.57	ug/mL	99
52)	4-Chlorophenyl phenyl ethe	13.36	204	1041687	20.78	ug/mL	96
53)	4-Nitroaniline	13.43	138	258594	20.84	ug/mL	95
57)	4,6-Dinitro-2-methylphenol	13.46	198	541079	24.86	ug/mL	91
58)	Diphenylamine	13.56	169	615794	16.72	ug/mL	94
59)	4-bromophenyl phenyl ether	14.16	248	642236	22.28	ug/mL	98
60)	Hexachlorobenzene	14.24	284	626579	22.44	ug/mL	96
61)	Pentachlorophenol	14.56	266	500143	25.13	ug/mL	98
62)	Phenanthrene	14.92	178	3732309	21.82	ug/mL	100
63)	Carbazole	15.27	167	1533473	15.17	ug/mL	100
64)	Anthracene	15.00	178	3558866	22.27	ug/mL	100
65)	Azobenzene	13.62	77	2731944	21.05	ug/mL	98
66)	Di-n-Butylphthalate	15.86	149	4430438	21.04	ug/mL	99
67)	Fluoranthene	16.85	202	3641419	22.51	ug/mL	99
68)	alpha-BHC	14.18	183	400938	20.87	ug/mL	95
69)	beta-BHC	14.53	181	371109	22.03	ug/mL	100
70)	gamma-BHC	14.65	183	362706	21.36	ug/mL	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100305\1003703.D Vial: 3
Acq On : 3 Oct 2005 1:35 pm Operator: MRC
Sample : SVCAL24 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 03 14:05:54 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7100305\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Mon Oct 03 14:05:47 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71) delta-BHC	15.04	183	335436	21.64 ug/mL	99
72) Heptachlor	15.68	100	438801	21.34 ug/mL	93
73) Aldrin	16.18	66	430442	20.02 ug/mL	92
74) Heptachlor Epoxide	16.69	353	174964	24.90 ug/mL	100
75) Endosulfan I	17.21	195	109985	21.56 ug/mL	97
76) 4,4'-DDE	17.40	246	682792	22.37 ug/mL	100
77) Dieldrin	17.54	79	581307	20.55 ug/mL	97
78) Endrin	17.83	263	117365	25.27 ug/mL	92
79) Endosulfan II	0.00	35	0	N.D.	
80) 4,4'-DDD	17.94	235	1219032	22.58 ug/mL#	99
81) Endosulfan Sulfate	18.44	272	141634	20.98 ug/mL#	88
82) 4,4'-DDT	18.42	235	846911	23.67 ug/mL	99
83) Endrin Aldehyde	0.00	35	0	N.D.	
84) Endrin Ketone	19.07	317	121330	25.44 ug/mL	99
85) Methoxychlor	19.08	227	1552893	22.45 ug/mL	100
87) Pyrene	17.22	202	3574590	21.96 ug/mL	98
88) Butylbenzylphthalate	18.30	149	1944482	21.42 ug/mL	96
89) Benzo[a]anthracene	19.17	228	2915327	23.33 ug/mL	99
90) 3,3'-Dichlorobenzidine	19.14	252	335997	35.34 ug/mL#	97
91) Chrysene	19.23	228	2453483	21.27 ug/mL	99
92) Bis(2-ethylhexyl)phthalate	19.24	149	2321969	18.83 ug/mL	97
95) Di-n-octylphthalate	20.34	149	4683311	21.29 ug/mL	100
96) Benzo[b]fluoranthene	21.06	252	2728550	25.06 ug/mL	99
97) Benzo[k]fluoranthene	21.12	252	2291504	21.82 ug/mL	100
98) Benzo[a]pyrene	21.76	252	2139506	24.06 ug/mL	98
99) Indeno(1,2,3-c,d)pyrene	24.81	276	1513304	26.91 ug/mL	99
100) Dibenzo[a,h]anthracene	24.90	278	1480601	26.95 ug/mL	99
101) Benzo[g,h,i]perylene	25.71	276	1431910	26.04 ug/mL	97

(#) = qualifier out of range (m) = manual integration

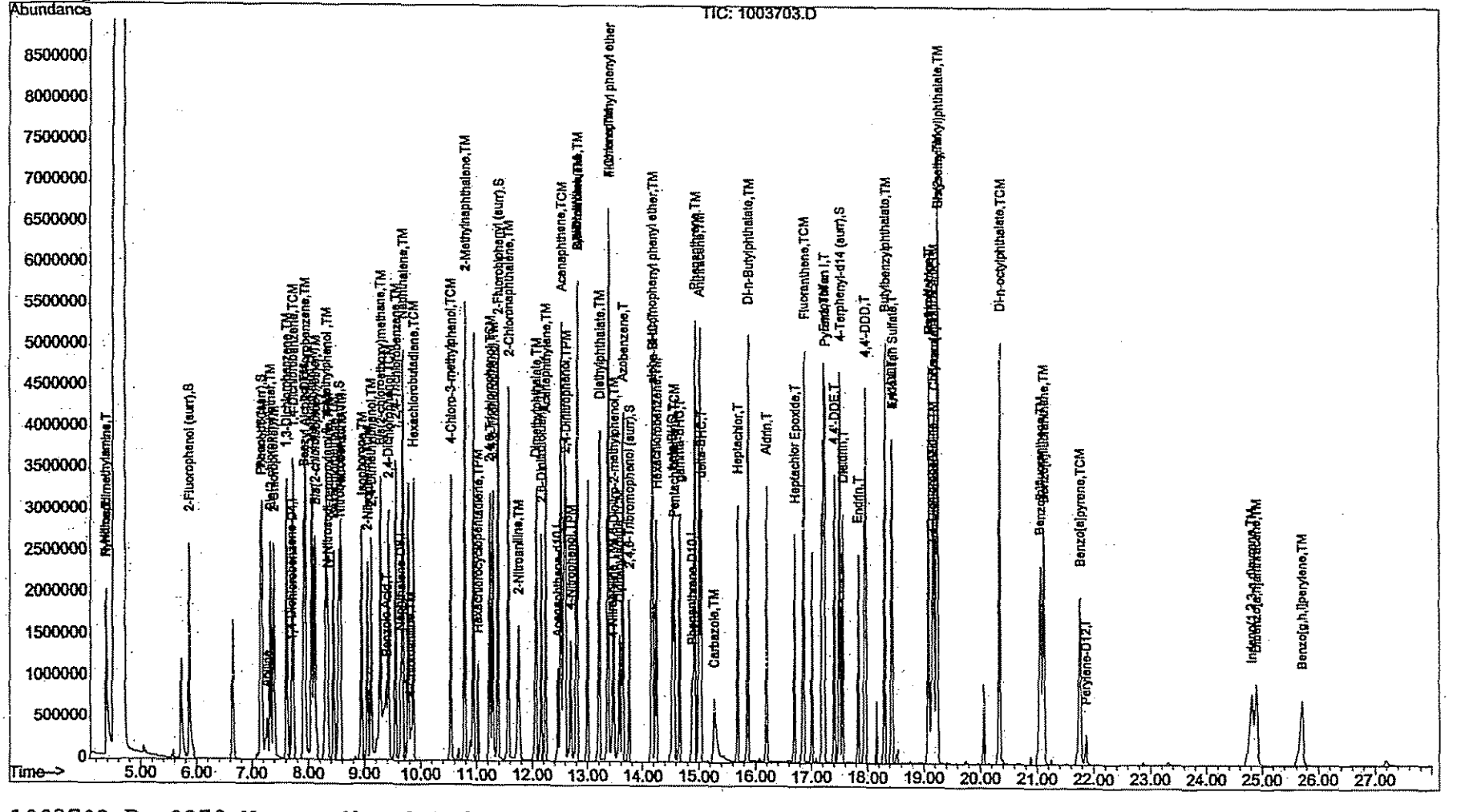
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100305\1003703.D
Acq On : 3 Oct 2005 1:35 pm
Sample : SVCAL24
Misc :
MS Integration Params: rteint.p
Quant Time: Oct 3 14:06 2005

Vial: 3
Operator: MRC
Inst : MSD7
Multiplr: 1.00

Quant Results File: 8270.RES

Method : C:\MSDCHEM\1\DATA\7100305\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Mon Oct 03 14:11:55 2005
Response via : Initial Calibration



1003703.D 8270.M Mon Oct 03 14:38:02 2005 ENV

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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100305\1003704.D Vial: 4
Acq On : 3 Oct 2005 12:57 pm Operator: MRC
Sample : SVCAL12 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 03 14:04:21 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7100305\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Mon Oct 03 14:04:11 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.68	152	197010	4.00	ug/mL	0.00
19) Naphthalene-D8	9.63	136	798725	4.00	ug/mL	0.00
34) Acenaphthene-d10	12.45	164	389553	4.00	ug/mL	0.00
56) Phenanthrene-D10	14.87	188	641521	4.00	ug/mL	0.00
86) Chrysene-D12	19.17	240	412981	4.00	ug/mL	0.00
94) Perylene-D12	21.86	264	298662	4.00	ug/mL	0.00
System Monitoring Compounds						
17) 2-Fluorophenol (surr)	5.84	112	695489	12.20	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	122.00%	
18) Phenol-d6 (surr)	7.13	99	938984	11.94	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	119.40%	
33) Nitrobenzene-d5 (surr)	8.52	128	361143	12.00	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	120.00%	
54) 2-Fluorobiphenyl (surr)	11.37	172	1369577	11.68	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	116.80%	
55) 2,4,6-Tribromophenol (surr	13.73	330	151738	12.63	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	126.30%	
93) 4-Terphenyl-d14 (surr)	17.48	244	1295214	11.38	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	113.80%	

Target Compounds						Qvalue
2) Pyridine	4.35	79	484013m	11.31	ug/mL	
3) N-Nitrosodimethylamine	4.31	74	303159m	12.96	ug/mL	
4) Phenol	7.15	94	990492	11.94	ug/mL	94
5) Aniline	7.23	93	83533	6.15	ug/mL#	83
6) Bis(2-chloroethyl)ether	7.30	93	782284m	11.49	ug/mL	
7) 2-Chlorophenol	7.37	128	774848	11.91	ug/mL	98
8) Benzyl Alcohol	7.90	108	502748	12.17	ug/mL	96
9) 1,3-Dichlorobenzene	7.59	146	794382	11.91	ug/mL	99
10) 1,4-Dichlorobenzene	7.70	146	814767	11.97	ug/mL	99
11) 1,2-Dichlorobenzene	7.93	146	730435	12.02	ug/mL	99
12) 2-Methylphenol	8.04	107	576719	12.05	ug/mL	100
13) 3-, 4-Methylphenol	8.28	107	837513	12.17	ug/mL	100
14) Bis(2-chloroisopropyl)ethe	8.10	45	1326021	11.88	ug/mL	97
15) N-Nitrosodi-n-propylamine	8.31	70	461226	12.27	ug/mL	99
16) Hexachloroethane	8.43	117	293385	12.14	ug/mL	98
20) Nitrobenzene	8.55	77	783951	12.23	ug/mL	96
21) Isophorone	8.92	82	1275507	12.03	ug/mL	100
22) 2-Nitrophenol	9.04	139	440114	12.04	ug/mL	96
23) 2,4-Dimethylphenol	9.10	122	426162	12.58	ug/mL	97
24) Benzoic Acid	9.31	122	494257m	13.49	ug/mL	

(#) = qualifier out of range (m) = manual integration
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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100305\1003704.D Vial: 4
Acq On : 3 Oct 2005 12:57 pm Operator: MRC
Sample : SVCAL12 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 03 14:04:21 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7100305\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Mon Oct 03 14:04:11 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25)	Bis(2-chloroethoxy)methane	9.26	93	843557	11.70	ug/mL	98
26)	2,4-Dichlorophenol	9.40	162	573336	12.20	ug/mL	97
27)	1,2,4-Trichlorobenzene	9.54	180	607906	11.84	ug/mL	97
28)	Naphthalene	9.66	128	1985003	11.86	ug/mL	99
29)	4-Chloroaniline	9.81	127	174522m	13.49	ug/mL	
30)	Hexachlorobutadiene	9.85	225	297778	11.92	ug/mL	98
31)	4-Chloro-3-methylphenol	10.52	107	619063	12.53	ug/mL	99
32)	2-Methylnaphthalene	10.77	142	1481308	12.01	ug/mL	98
35)	Hexachlorocyclopentadiene	11.01	237	104671	13.93	ug/mL#	98
36)	2,4,6-Trichlorophenol	11.22	196	402975	11.87	ug/mL	97
37)	2,4,5-Trichlorophenol	11.27	196	436435	12.35	ug/mL	97
38)	2-Chloronaphthalene	11.55	162	1182766	11.65	ug/mL	99
39)	2-Nitroaniline	11.73	65	383248	12.26	ug/mL	100
40)	3-Nitroaniline	12.79	138	30694	9.27	ug/mL#	100
41)	1-Methylnaphthalene	10.77	142	1481308	12.05	ug/mL	99
42)	Dimethylphthalate	12.04	163	1357039	11.58	ug/mL	99
43)	Acenaphthylene	12.22	152	1631480	11.63	ug/mL	98
44)	2,6-Dinitrotoluene	12.13	165	318825	12.16	ug/mL	98
45)	Acenaphthene	12.51	153	1188777	11.76	ug/mL	99
46)	2,4-Dinitrophenol	12.59	184	214161	13.00	ug/mL#	75
47)	4-Nitrophenol	12.67	109	174450	13.63	ug/mL	89
48)	Dibenzofuran	12.80	168	1663029	11.56	ug/mL	99
49)	2,4-Dinitrotoluene	12.78	165	378690	11.79	ug/mL#	91
50)	Fluorene	13.35	166	1231528	11.79	ug/mL	98
51)	Diethylphthalate	13.19	149	1366960	11.63	ug/mL	100
52)	4-Chlorophenyl phenyl ethe	13.35	204	577874	11.60	ug/mL	98
53)	4-Nitroaniline	13.41	138	191596m	17.19	ug/mL	
57)	4,6-Dinitro-2-methylphenol	13.44	198	269592	12.66	ug/mL	98
58)	Diphenylamine	13.55	169	372168	9.74	ug/mL	98
59)	4-bromophenyl phenyl ether	14.15	248	342306	11.86	ug/mL	92
60)	Hexachlorobenzene	14.23	284	327160	11.70	ug/mL	92
61)	Pentachlorophenol	14.55	266	244871	12.80	ug/mL	97
62)	Phenanthrene	14.91	178	1993562	11.75	ug/mL	99
63)	Carbazole	15.26	167	1011948	10.57	ug/mL	97
64)	Anthracene	14.99	178	1876747	11.84	ug/mL	100
65)	Azobenzene	13.62	77	1515034	11.64	ug/mL	99
66)	Di-n-Butylphthalate	15.86	149	2395603	11.33	ug/mL	99
67)	Fluoranthene	16.84	202	1914183	12.00	ug/mL	98
68)	alpha-BHC	14.17	183	222131	11.55	ug/mL	96
69)	beta-BHC	14.52	181	200069	11.90	ug/mL	97
70)	gamma-BHC	14.65	183	195756	11.50	ug/mL	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100305\1003704.D Vial: 4
Acq On : 3 Oct 2005 12:57 pm Operator: MRC
Sample : SVCAL12 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 03 14:04:21 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7100305\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Mon Oct 03 14:04:11 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
71)	delta-BHC	15.03	183	186249	12.07	ug/mL	99
72)	Heptachlor	15.67	100	246321	12.01	ug/mL	89
73)	Aldrin	16.18	66	252810	11.67	ug/mL	90
74)	Heptachlor Epoxide	16.69	353	85946	12.24	ug/mL	91
75)	Endosulfan I	17.20	195	63484	12.51	ug/mL#	100
76)	4,4'-DDE	17.39	246	366770	12.08	ug/mL	98
77)	Dieldrin	17.54	79	331325	11.67	ug/mL#	89
78)	Endrin	17.83	263	56791	12.49	ug/mL#	83
79)	Endosulfan II	0.00	35	0	N.D.		
80)	4,4'-DDD	17.94	235	654581	12.22	ug/mL#	100
81)	Endosulfan Sulfate	18.43	272	79403	11.84	ug/mL#	100
82)	4,4'-DDT	18.42	235	447138	12.81	ug/mL	97
83)	Endrin Aldehyde	0.00	35	0	N.D.		
84)	Endrin Ketone	19.07	317	62913	13.44	ug/mL#	56
85)	Methoxychlor	19.07	227	844289	12.43	ug/mL	97
87)	Pyrene	17.21	202	1911188	11.34	ug/mL	98
88)	Butylbenzylphthalate	18.29	149	1050135	11.04	ug/mL	98
89)	Benzo[a]anthracene	19.16	228	1494454	11.74	ug/mL	98
90)	3,3'-Dichlorobenzidine	19.13	252	126023	13.17	ug/mL#	92
91)	Chrysene	19.21	228	1390781	11.82	ug/mL	100
92)	Bis(2-ethylhexyl)phthalate	19.23	149	1411500	10.83	ug/mL#	97
95)	Di-n-octylphthalate	20.33	149	2531714	10.77	ug/mL	100
96)	Benzo[b]fluoranthene	21.04	252	1317417	11.95	ug/mL	98
97)	Benzo[k]fluoranthene	21.10	252	1281832	12.02	ug/mL	99
98)	Benzo[a]pyrene	21.74	252	1081524	12.07	ug/mL	100
99)	Indeno(1,2,3-c,d)pyrene	24.78	276	697770	12.74	ug/mL	94
100)	Dibenzo[a,h]anthracene	24.87	278	704652	13.16	ug/mL	91
101)	Benzo[g,h,i]perylene	25.68	276	683055	12.66	ug/mL	98

(#) = qualifier out of range (m) = manual integration

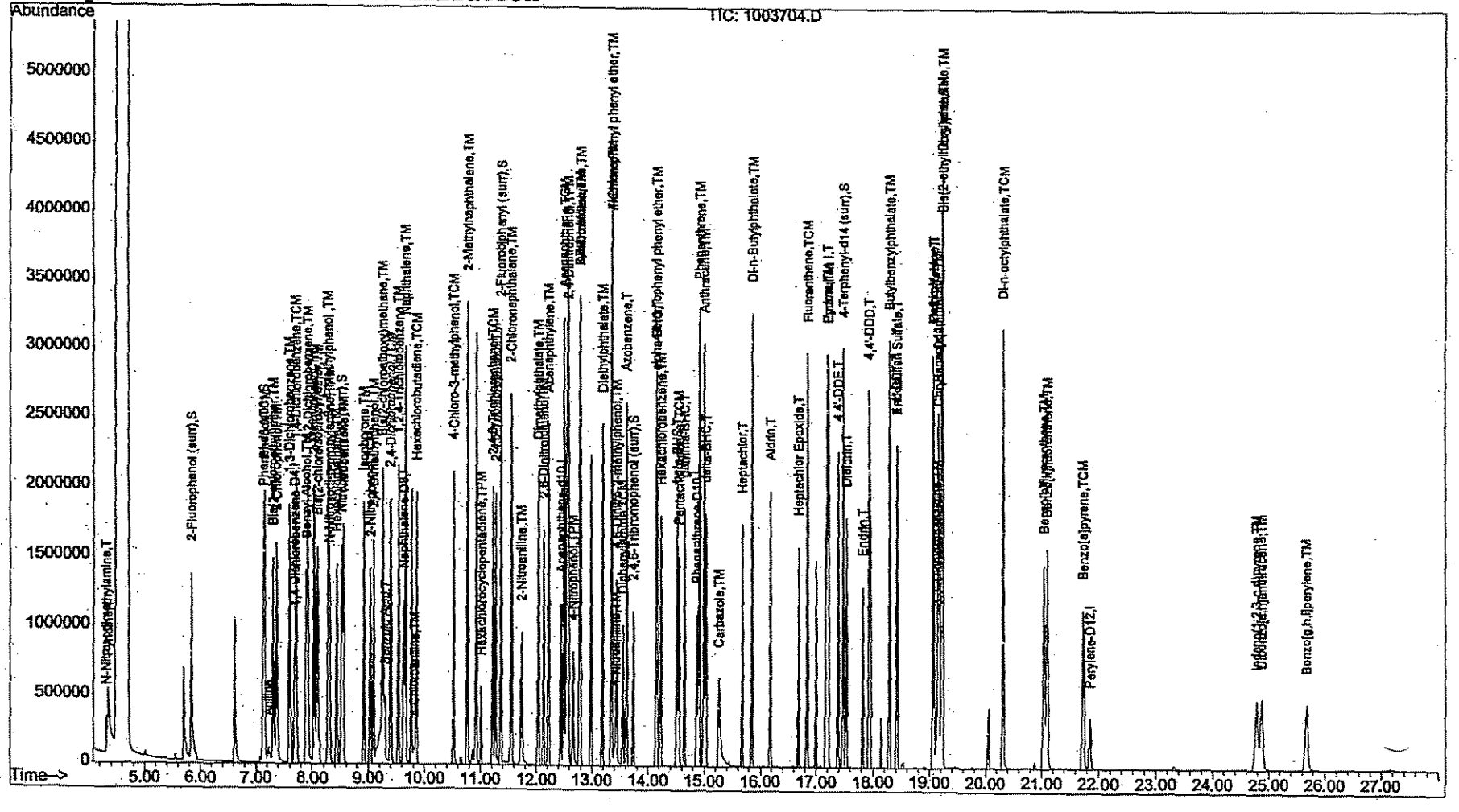
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100305\1003704.D
Acq On : 3 Oct 2005 12:57 pm
Sample : SVCAL12
Misc :
MS Integration Params: rteint.p
Quant Time: Oct 3 14:05 2005

Vial: 4
Operator: MRC
Inst : MSD7
Multiplr: 1.00

Quant Results File: 8270.RES

Method : C:\MSDCHEM\1\DATA\7100305\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Mon Oct 03 14:11:55 2005
Response via : Initial Calibration



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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100305\1003705.D Vial: 5
Acq On : 3 Oct 2005 12:20 pm Operator: MRC
Sample : SVCAL08 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 03 14:01:02 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7100305\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Mon Oct 03 14:00:52 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.68	152	200286	4.00	ug/mL	0.00
19) Naphthalene-D8	9.63	136	818452	4.00	ug/mL	0.00
34) Acenaphthene-d10	12.45	164	393709	4.00	ug/mL	0.00
56) Phenanthrene-D10	14.87	188	645683	4.00	ug/mL	0.00
86) Chrysene-D12	19.17	240	420418	4.00	ug/mL	0.00
94) Perylene-D12	21.85	264	316754	4.00	ug/mL	0.00
System Monitoring Compounds						
17) 2-Fluorophenol (surr)	5.84	112	461224	7.95	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	79.50%	
18) Phenol-d6 (surr)	7.12	99	631400	7.91	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	79.10%	
33) Nitrobenzene-d5 (surr)	8.52	128	241885	7.85	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	78.50%	
54) 2-Fluorobiphenyl (surr)	11.37	172	923358	7.78	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	77.80%	
55) 2,4,6-Tribromophenol (surr	13.73	330	97425	8.05	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	80.50%	
93) 4-Terphenyl-d14 (surr)	17.48	244	862741	7.37	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	73.70%	
Target Compounds						Qvalue
2) Pyridine	4.35	79	289947	6.29	ug/mL#	61
3) N-Nitrosodimethylamine	4.31	74	180665	7.15	ug/mL#	79
4) Phenol	7.14	94	664766	7.85	ug/mL	99
5) Aniline	7.22	93	76029	5.47	ug/mL#	86
6) Bis(2-chloroethyl)ether	7.30	93	532232m	7.71	ug/mL	
7) 2-Chlorophenol	7.36	128	521749	7.89	ug/mL	97
8) Benzyl Alcohol	7.89	108	339145	8.10	ug/mL	97
9) 1,3-Dichlorobenzene	7.59	146	536572	7.92	ug/mL	100
10) 1,4-Dichlorobenzene	7.70	146	549126	7.94	ug/mL	98
11) 1,2-Dichlorobenzene	7.92	146	495955	8.04	ug/mL	98
12) 2-Methylphenol	8.04	107	388742	7.99	ug/mL	99
13) 3-, 4-Methylphenol	8.27	107	550742	7.88	ug/mL	98
14) Bis(2-chloroisopropyl)ethe	8.09	45	897720	7.87	ug/mL	99
15) N-Nitrosodi-n-propylamine	8.30	70	317287	8.36	ug/mL	99
16) Hexachloroethane	8.43	117	197373	8.01	ug/mL	99
20) Nitrobenzene	8.55	77	526876	7.99	ug/mL	99
21) Isophorone	8.92	82	858658	7.88	ug/mL	99
22) 2-Nitrophenol	9.03	139	294240	7.86	ug/mL	98
23) 2,4-Dimethylphenol	9.09	122	248613	7.14	ug/mL	98
24) Benzoic Acid	9.27	122	312683	8.45	ug/mL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100305\1003705.D Vial: 5
Acq On : 3 Oct 2005 12:20 pm Operator: MRC
Sample : SVCAL08 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 03 14:01:02 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7100305\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Mon Oct 03 14:00:52 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25)	Bis(2-chloroethoxy)methane	9.26	93	573584	7.73	ug/mL	99
26)	2,4-Dichlorophenol	9.40	162	382113	7.94	ug/mL	99
27)	1,2,4-Trichlorobenzene	9.53	180	408666	7.76	ug/mL	99
28)	Naphthalene	9.66	128	1352414	7.89	ug/mL	99
29)	4-Chloroaniline	9.81	127	96992m	7.33	ug/mL	
30)	Hexachlorobutadiene	9.85	225	200510	7.80	ug/mL	99
31)	4-Chloro-3-methylphenol	10.52	107	407068	8.01	ug/mL	99
32)	2-Methylnaphthalene	10.77	142	1004460	7.93	ug/mL	100
35)	Hexachlorocyclopentadiene	11.01	237	64226	8.82	ug/mL	97
36)	2,4,6-Trichlorophenol	11.22	196	269528	7.86	ug/mL	99
37)	2,4,5-Trichlorophenol	11.27	196	287124	8.04	ug/mL	99
38)	2-Chloronaphthalene	11.55	162	803034	7.82	ug/mL	99
39)	2-Nitroaniline	11.73	65	246737	7.81	ug/mL	97
40)	3-Nitroaniline	12.79	138	21842m	6.30	ug/mL	
41)	1-Methylnaphthalene	10.77	142	1004460	8.20	ug/mL	100
42)	Dimethylphthalate	12.04	163	916971	7.73	ug/mL	99
43)	Acenaphthylene	12.22	152	1149477	8.10	ug/mL	99
44)	2,6-Dinitrotoluene	12.13	165	211281	7.98	ug/mL	95
45)	Acenaphthene	12.50	153	810119	7.93	ug/mL	100
46)	2,4-Dinitrophenol	12.59	184	140117	8.57	ug/mL	97
47)	4-Nitrophenol	12.66	109	112956	9.03	ug/mL	99
48)	Dibenzofuran	12.79	168	1138712	7.82	ug/mL	99
49)	2,4-Dinitrotoluene	12.78	165	258072	7.94	ug/mL	98
50)	Fluorene	13.34	166	844156	7.96	ug/mL	97
51)	Diethylphthalate	13.19	149	936063	7.86	ug/mL	99
52)	4-Chlorophenyl phenyl ethe	13.35	204	396315	7.82	ug/mL	99
53)	4-Nitroaniline	13.40	138	103101	9.64	ug/mL	96
57)	4,6-Dinitro-2-methylphenol	13.43	198	178230	8.43	ug/mL	97
58)	Diphenylamine	13.55	169	275711	7.02	ug/mL	98
59)	4-bromophenyl phenyl ether	14.15	248	228539	7.85	ug/mL	98
60)	Hexachlorobenzene	14.23	284	216949	7.67	ug/mL	98
61)	Pentachlorophenol	14.55	266	161977	8.75	ug/mL	98
62)	Phenanthrene	14.90	178	1337626	7.83	ug/mL	100
63)	Carbazole	15.26	167	765168	8.26	ug/mL	99
64)	Anthracene	14.99	178	1266004	7.92	ug/mL	100
65)	Azobenzene	13.61	77	1028700	7.78	ug/mL	100
66)	Di-n-Butylphthalate	15.85	149	1640057	7.66	ug/mL	100
67)	Fluoranthene	16.84	202	1271207	7.92	ug/mL	99
68)	alpha-BHC	14.16	183	151684	7.80	ug/mL	96
69)	beta-BHC	14.51	181	136401	8.02	ug/mL	100
70)	gamma-BHC	14.65	183	133848	7.79	ug/mL	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100305\1003705.D Vial: 5
Acq On : 3 Oct 2005 12:20 pm Operator: MRC
Sample : SVCAL08 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 03 14:01:02 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7100305\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Mon Oct 03 14:00:52 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	delta-BHC	15.03	183	125898	8.07 ug/mL	98
72)	Heptachlor	15.67	100	166908	8.10 ug/mL	99
73)	Aldrin	16.18	66	176678	8.04 ug/mL	100
74)	Heptachlor Epoxide	16.69	353	54073	7.57 ug/mL	99
75)	Endosulfan I	17.19	195	43544	8.52 ug/mL	99
76)	4,4'-DDE	17.39	246	242637	7.93 ug/mL	99
77)	Dieldrin	17.54	79	230061	8.00 ug/mL	99
78)	Endrin	17.82	263	37781	8.48 ug/mL	99
79)	Endosulfan II	0.00	35	0	N.D.	
80)	4,4'-DDD	17.93	235	434571	8.05 ug/mL#	99
81)	Endosulfan Sulfate	18.43	272	55620	8.25 ug/mL	99
82)	4,4'-DDT	18.42	235	300177	8.76 ug/mL	98
83)	Endrin Aldehyde	0.00	35	0	N.D.	
84)	Endrin Ketone	19.07	317	39505	8.41 ug/mL	95
85)	Methoxychlor	19.07	227	580737	8.73 ug/mL	99
87)	Pyrene	17.21	202	1281077	7.39 ug/mL	99
88)	Butylbenzylphthalate	18.29	149	715969	7.31 ug/mL	99
89)	Benzo[a]anthracene	19.15	228	1003133	7.77 ug/mL	99
90)	3,3'-Dichlorobenzidine	19.13	252	74417	7.69 ug/mL	94
91)	Chrysene	19.21	228	944087	7.88 ug/mL	98
92)	Bis(2-ethylhexyl)phthalate	19.23	149	970489	7.23 ug/mL	100
95)	Di-n-octylphthalate	20.32	149	1712895	6.63 ug/mL	100
96)	Benzo[b]fluoranthene	21.04	252	880028	7.46 ug/mL	100
97)	Benzo[k]fluoranthene	21.10	252	901140	7.89 ug/mL	100
98)	Benzo[a]pyrene	21.73	252	746014	7.86 ug/mL	98
99)	Indeno(1,2,3-c,d)pyrene	24.77	276	446351	7.96 ug/mL	98
100)	Dibenzo[a,h]anthracene	24.86	278	452263	8.24 ug/mL	98
101)	Benzo[g,h,i]perylene	25.66	276	437803	7.88 ug/mL	99

(#) = qualifier out of range (m) = manual integration

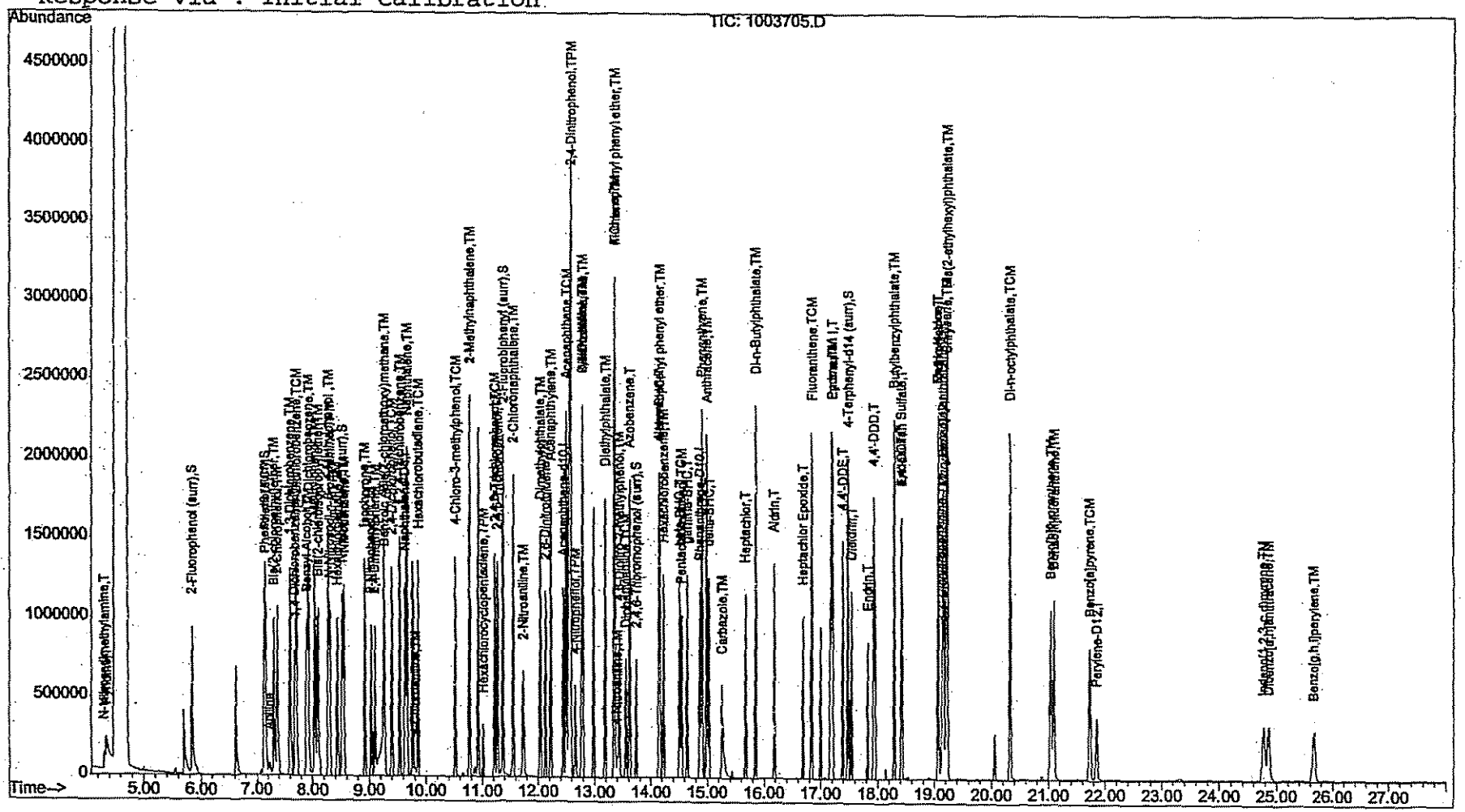
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100305\1003705.D
Acq On : 3 Oct 2005 12:20 pm
Sample : SVCAL08
Misc :
MS Integration Params: rteint.p
Quant Time: Oct 3 14:02 2005

Vial: 5
Operator: MRC
Inst : MSD7
Multiplr: 1.00

Quant Results File: 8270.RES

Method : C:\MSDCHEM\1\DATA\7100305\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Mon Oct 03 14:11:55 2005
Response via : Initial Calibration



1003705.D 8270.M Mon Oct 03 14:38:16 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100305\1003706.D Vial: 6
Acq On : 3 Oct 2005 11:43 am Operator: MRC
Sample : SVCAL06 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 03 13:59:33 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7100305\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Mon Oct 03 13:59:23 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.68	152	211112	4.00 ug/mL	0.00
19) Naphthalene-D8	9.63	136	862792	4.00 ug/mL	0.00
34) Acenaphthene-d10	12.45	164	419500	4.00 ug/mL	0.00
56) Phenanthrene-D10	14.87	188	687019	4.00 ug/mL	0.00
86) Chrysene-D12	19.17	240	458932	4.00 ug/mL	0.00
94) Perylene-D12	21.85	264	375837	4.00 ug/mL	0.00
System Monitoring Compounds					
17) 2-Fluorophenol (surr)	5.84	112	373218	6.08 ug/mL	0.00
Spiked Amount 10.000			Recovery	= 60.80%	
18) Phenol-d6 (surr)	7.12	99	531711	6.33 ug/mL	0.00
Spiked Amount 10.000			Recovery	= 63.30%	
33) Nitrobenzene-d5 (surr)	8.52	128	206553	6.38 ug/mL	0.00
Spiked Amount 10.000			Recovery	= 63.80%	
54) 2-Fluorobiphenyl (surr)	11.36	172	778820	6.13 ug/mL	0.00
Spiked Amount 10.000			Recovery	= 61.30%	
55) 2,4,6-Tribromophenol (surr	13.73	330	80227	6.28 ug/mL	0.00
Spiked Amount 10.000			Recovery	= 62.80%	
93) 4-Terphenyl-d14 (surr)	17.48	244	732762	5.71 ug/mL	0.00
Spiked Amount 10.000			Recovery	= 57.10%	

Target Compounds					Qvalue
2) Pyridine	4.38	79	173152m	3.30 ug/mL	
3) N-Nitrosodimethylamine	4.34	74	131962m	4.58 ug/mL	
4) Phenol	7.14	94	561823	6.28 ug/mL	99
5) Aniline	7.23	93	57678	4.01 ug/mL#	77
6) Bis(2-chloroethyl)ether	7.30	93	454694m	6.26 ug/mL	
7) 2-Chlorophenol	7.37	128	438598	6.30 ug/mL	97
8) Benzyl Alcohol	7.89	108	291196	6.63 ug/mL	97
9) 1,3-Dichlorobenzene	7.59	146	446292	6.24 ug/mL	98
10) 1,4-Dichlorobenzene	7.70	146	454024	6.22 ug/mL	98
11) 1,2-Dichlorobenzene	7.93	146	416043	6.40 ug/mL	100
12) 2-Methylphenol	8.04	107	320362	6.24 ug/mL	99
13) 3-, 4-Methylphenol	8.27	107	461518	6.28 ug/mL	99
14) Bis(2-chloroisopropyl)ethe	8.09	45	752908	6.21 ug/mL	99
15) N-Nitrosodi-n-propylamine	8.29	70	260050	6.53 ug/mL	99
16) Hexachloroethane	8.43	117	165779	6.38 ug/mL	95
20) Nitrobenzene	8.55	77	445947	6.40 ug/mL	98
21) Isophorone	8.92	82	725288	6.30 ug/mL	98
22) 2-Nitrophenol	9.03	139	250152	6.36 ug/mL	96
23) 2,4-Dimethylphenol	9.09	122	198909	5.41 ug/mL	100
24) Benzoic Acid	9.26	122	262092	6.89 ug/mL	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100305\1003706.D Vial: 6
Acq On : 3 Oct 2005 11:43 am Operator: MRC
Sample : SVCAL06 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 03 13:59:33 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7100305\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Mon Oct 03 13:59:23 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25)	Bis(2-chloroethoxy)methane	9.25	93	488241	6.22 ug/mL	99
26)	2,4-Dichlorophenol	9.40	162	320721	6.33 ug/mL	98
27)	1,2,4-Trichlorobenzene	9.54	180	347283	6.24 ug/mL	97
28)	Naphthalene	9.66	128	1136618	6.29 ug/mL	100
29)	4-Chloroaniline	9.80	127	87889m	6.40 ug/mL	
30)	Hexachlorobutadiene	9.85	225	172268	6.34 ug/mL	98
31)	4-Chloro-3-methylphenol	10.51	107	339581	6.34 ug/mL	99
32)	2-Methylnaphthalene	10.77	142	846018	6.34 ug/mL	100
35)	Hexachlorocyclopentadiene	11.01	237	53357	7.25 ug/mL#	95
36)	2,4,6-Trichlorophenol	11.22	196	225606	6.19 ug/mL	96
37)	2,4,5-Trichlorophenol	11.27	196	240796	6.35 ug/mL	98
38)	2-Chloronaphthalene	11.55	162	675307	6.15 ug/mL	97
39)	2-Nitroaniline	11.73	65	207878	6.18 ug/mL	98
40)	3-Nitroaniline	12.79	138	18187m	4.54 ug/mL	
41)	1-Methylnaphthalene	10.77	142	846018	6.57 ug/mL	100
42)	Dimethylphthalate	12.03	163	772826	6.09 ug/mL	99
43)	Acenaphthylene	12.22	152	966814	6.38 ug/mL	99
44)	2,6-Dinitrotoluene	12.13	165	179619	6.37 ug/mL	96
45)	Acenaphthene	12.50	153	677260	6.21 ug/mL	100
46)	2,4-Dinitrophenol	12.59	184	114951	6.72 ug/mL	85
47)	4-Nitrophenol	12.66	109	94564	7.43 ug/mL	93
48)	Dibenzofuran	12.79	168	965665	6.23 ug/mL	99
49)	2,4-Dinitrotoluene	12.78	165	220275	6.39 ug/mL	92
50)	Fluorene	13.34	166	715356	6.32 ug/mL	98
51)	Diethylphthalate	13.18	149	785311	6.17 ug/mL	98
52)	4-Chlorophenyl phenyl ethe	13.35	204	336648	6.19 ug/mL	95
53)	4-Nitroaniline	13.40	138	89116	8.38 ug/mL#	77
57)	4,6-Dinitro-2-methylphenol	13.43	198	147788	6.65 ug/mL	97
58)	Diphenylamine	13.54	169	225162	5.27 ug/mL	97
59)	4-bromophenyl phenyl ether	14.15	248	194615	6.25 ug/mL	97
60)	Hexachlorobenzene	14.23	284	181220	5.98 ug/mL	98
61)	Pentachlorophenol	14.55	266	134990	7.19 ug/mL	100
62)	Phenanthrene	14.90	178	1122579	6.16 ug/mL	99
63)	Carbazole	15.26	167	671063	7.11 ug/mL	98
64)	Anthracene	14.99	178	1057536	6.21 ug/mL	99
65)	Azobenzene	13.61	77	867573	6.09 ug/mL	99
66)	Di-n-Butylphthalate	15.85	149	1400841	6.11 ug/mL	100
67)	Fluoranthene	16.84	202	1080754	6.34 ug/mL	96
68)	alpha-BHC	14.16	183	131874	6.36 ug/mL	96
69)	beta-BHC	14.51	181	115665	6.37 ug/mL	99
70)	gamma-BHC	14.64	183	114358	6.21 ug/mL	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100305\1003706.D Vial: 6
Acq On : 3 Oct 2005 11:43 am Operator: MRC
Sample : SVCAL06 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 03 13:59:33 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7100305\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Mon Oct 03 13:59:23 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	delta-BHC	15.03	183	107022	6.41 ug/mL	100
72)	Heptachlor	15.67	100	140647	6.40 ug/mL	97
73)	Aldrin	16.18	66	148675	6.28 ug/mL	99
74)	Heptachlor Epoxide	16.69	353	45171	5.91 ug/mL	96
75)	Endosulfan I	17.19	195	36718	6.71 ug/mL#	100
76)	4,4'-DDE	17.39	246	203278	6.22 ug/mL	100
77)	Dieldrin	17.54	79	193638	6.29 ug/mL	98
78)	Endrin	17.82	263	32472	7.05 ug/mL	89
79)	Endosulfan II	0.00	35	0	N.D.	
80)	4,4'-DDD	17.93	235	366912	6.39 ug/mL#	100
81)	Endosulfan Sulfate	18.43	272	46500	6.47 ug/mL#	44
82)	4,4'-DDT	18.41	235	253050	7.11 ug/mL	100
83)	Endrin Aldehyde	0.00	35	0	N.D.	
84)	Endrin Ketone	19.06	317	33306	6.68 ug/mL#	83
85)	Methoxychlor	19.07	227	495705	7.19 ug/mL	99
87)	Pyrene	17.21	202	1087948	5.72 ug/mL	96
88)	Butylbenzylphthalate	18.29	149	612418	5.70 ug/mL	98
89)	Benzo[a]anthracene	19.15	228	866536	6.17 ug/mL	99
90)	3,3'-Dichlorobenzidine	19.13	252	64295	6.17 ug/mL#	98
91)	Chrysene	19.21	228	817393	6.24 ug/mL	99
92)	Bis(2-ethylhexyl)phthalate	19.23	149	845740	5.72 ug/mL	99
95)	Di-n-octylphthalate	20.32	149	1494438	4.74 ug/mL	100
96)	Benzo[b]fluoranthene	21.03	252	796634	5.64 ug/mL	99
97)	Benzo[k]fluoranthene	21.09	252	807152	5.89 ug/mL	99
98)	Benzo[a]pyrene	21.73	252	697486	6.20 ug/mL	99
99)	Indeno(1,2,3-c,d)pyrene	24.77	276	460175	7.22 ug/mL	98
100)	Dibenzo[a,h]anthracene	24.86	278	462920	7.38 ug/mL	96
101)	Benzo[g,h,i]perylene	25.67	276	452603	7.08 ug/mL	95

(#) = qualifier out of range (m) = manual integration

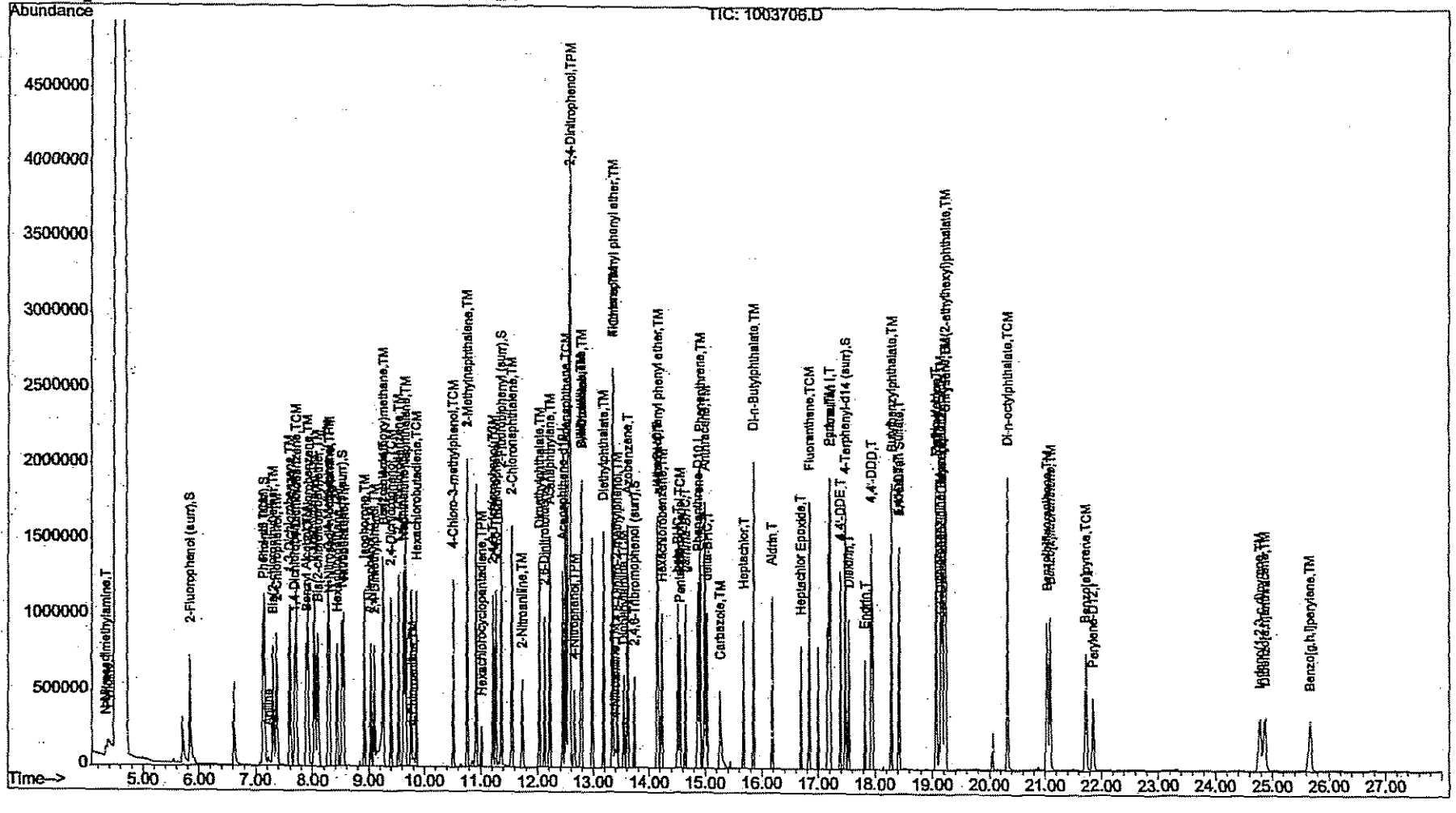
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100305\1003706.D
Acq On : 3 Oct 2005 11:43 am
Sample : SVCAL06
Misc :
MS Integration Params: rteint.p
Quant Time: Oct 3 14:03 2005

Vial: 6
Operator: MRC
Inst : MSD7
Multiplr: 1.00

Quant Results File: 8270.RES

Method : C:\MSDCHEM\1\DATA\7100305\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Mon Oct 03 14:11:55 2005
Response via : Initial Calibration



1003706.D 8270.M Mon Oct 03 14:38:22 2005 ENV

PARADIGM ANALYTICAL LABORATORIES, INC.

N.C. CERTIFICATION #481

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100305\1003707.D Vial: 7
Acq On : 3 Oct 2005 11:06 am Operator: MRC
Sample : SVCAL04 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 03 11:34:33 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7100305\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Mon Oct 03 10:22:41 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.68	152	206993	4.00	ug/mL	0.00
19) Naphthalene-D8	9.63	136	840720	4.00	ug/mL	0.00
34) Acenaphthene-d10	12.45	164	392877	4.00	ug/mL	0.00
56) Phenanthrene-D10	14.86	188	627400	4.00	ug/mL	0.00
86) Chrysene-D12	19.16	240	416986	4.00	ug/mL	0.00
94) Perylene-D12	21.85	264	340207	4.00	ug/mL	0.00
System Monitoring Compounds						
17) 2-Fluorophenol (surr)	5.84	112	240482	4.04	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	40.40%	
18) Phenol-d6 (surr)	7.12	99	330965	4.04	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	40.40%	
33) Nitrobenzene-d5 (surr)	8.51	128	127416	4.08	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	40.80%	
54) 2-Fluorobiphenyl (surr)	11.36	172	486936	4.11	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	41.10%	
55) 2,4,6-Tribromophenol (surr	13.72	330	45780	4.03	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	40.30%	
93) 4-Terphenyl-d14 (surr)	17.47	244	424633	3.56	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	35.60%	

Target Compounds						Qvalue
2) Pyridine	4.47	79	68165m	1.19	ug/mL	
3) N-Nitrosodimethylamine	4.39	74	55677m	1.79	ug/mL	
4) Phenol	7.14	94	348395	3.96	ug/mL	94
5) Aniline	7.23	93	46864	3.90	ug/mL#	62
6) Bis(2-chloroethyl)ether	7.30	93	289745m	4.01	ug/mL	
7) 2-Chlorophenol	7.36	128	274239	4.04	ug/mL	96
8) Benzyl Alcohol	7.89	108	175991	4.16	ug/mL	98
9) 1,3-Dichlorobenzene	7.59	146	287166	4.09	ug/mL	100
10) 1,4-Dichlorobenzene	7.70	146	291088	4.06	ug/mL	98
11) 1,2-Dichlorobenzene	7.92	146	265113	4.16	ug/mL	96
12) 2-Methylphenol	8.03	107	197218	3.93	ug/mL	98
13) 3-, 4-Methylphenol	8.27	107	276760	3.86	ug/mL	98
14) Bis(2-chloroisopropyl)ethe	8.09	45	473884	3.89	ug/mL	97
15) N-Nitrosodi-n-propylamine	8.29	70	161367	4.12	ug/mL	98
16) Hexachloroethane	8.43	117	102070	3.97	ug/mL	98
20) Nitrobenzene	8.54	77	275261	4.00	ug/mL	98
21) Isophorone	8.91	82	447269	3.94	ug/mL	100
22) 2-Nitrophenol	9.03	139	153529	4.08	ug/mL	96
23) 2,4-Dimethylphenol	9.09	122	124833	3.49	ug/mL	95
24) Benzoic Acid	9.23	122	151644	4.50	ug/mL#	100

(#) = qualifier out of range (m) = manual integration
1003707.D 8270.M Mon Oct 03 14:38:26 2005 ENV Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100305\1003707.D Vial: 7
Acq On : 3 Oct 2005 11:06 am Operator: MRC
Sample : SVCAL04 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 03 11:34:33 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7100305\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Mon Oct 03 10:22:41 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
25)	Bis(2-chloroethoxy)methane	9.25	93	312915	4.07 ug/mL	99
26)	2,4-Dichlorophenol	9.39	162	197040	4.05 ug/mL	98
27)	1,2,4-Trichlorobenzene	9.53	180	219596	4.08 ug/mL	99
28)	Naphthalene	9.66	128	721144	4.11 ug/mL	99
29)	4-Chloroaniline	9.79	127	38232m	2.84 ug/mL	
30)	Hexachlorobutadiene	9.85	225	109264	4.11 ug/mL	97
31)	4-Chloro-3-methylphenol	10.51	107	202197	3.91 ug/mL	98
32)	2-Methylnaphthalene	10.77	142	529689	4.09 ug/mL	99
35)	Hexachlorocyclopentadiene	11.01	237	29145	5.24 ug/mL#	98
36)	2,4,6-Trichlorophenol	11.21	196	137139	4.11 ug/mL	96
37)	2,4,5-Trichlorophenol	11.27	196	144917	4.21 ug/mL	98
38)	2-Chloronaphthalene	11.55	162	420927	4.11 ug/mL	99
39)	2-Nitroaniline	11.72	65	116942	3.72 ug/mL	96
40)	3-Nitroaniline	12.79	138	10416m	2.76 ug/mL	
41)	1-Methylnaphthalene	10.77	142	529689	4.55 ug/mL	99
42)	Dimethylphthalate	12.03	163	479926	4.05 ug/mL	99
43)	Acenaphthylene	12.22	152	605933	4.27 ug/mL	98
44)	2,6-Dinitrotoluene	12.12	165	107202	4.12 ug/mL	99
45)	Acenaphthene	12.50	153	417168	4.09 ug/mL	99
46)	2,4-Dinitrophenol	12.58	184	65469	4.43 ug/mL#	74
47)	4-Nitrophenol	12.65	109	52263	5.30 ug/mL	84
48)	Dibenzofuran	12.79	168	595748	4.13 ug/mL	98
49)	2,4-Dinitrotoluene	12.77	165	132355	4.16 ug/mL#	100
50)	Fluorene	13.34	166	431182	4.06 ug/mL	98
51)	Diethylphthalate	13.18	149	486592	4.08 ug/mL	98
52)	4-Chlorophenyl phenyl ethe	13.35	204	210450	4.10 ug/mL	99
53)	4-Nitroaniline	13.39	138	49050	6.05 ug/mL#	90
57)	4,6-Dinitro-2-methylphenol	13.43	198	82023	4.30 ug/mL	95
58)	Diphenylamine	13.54	169	150470	3.63 ug/mL	99
59)	4-bromophenyl phenyl ether	14.14	248	113722	3.98 ug/mL	97
60)	Hexachlorobenzene	14.22	284	107748	3.88 ug/mL	99
61)	Pentachlorophenol	14.55	266	75322	4.89 ug/mL	98
62)	Phenanthrene	14.90	178	676958	4.09 ug/mL	98
63)	Carbazole	15.26	167	422275	5.05 ug/mL	99
64)	Anthracene	14.98	178	637435	4.13 ug/mL	99
65)	Azobenzene	13.61	77	524523	3.91 ug/mL	99
66)	Di-n-Butylphthalate	15.85	149	863310	4.11 ug/mL	99
67)	Fluoranthene	16.83	202	636657	4.17 ug/mL	99
68)	alpha-BHC	14.16	183	79280	4.13 ug/mL	86
69)	beta-BHC	14.50	181	67969	4.06 ug/mL	98
70)	gamma-BHC	14.64	183	69595	4.11 ug/mL	99

(#) = qualifier out of range (m) = manual integration
1003707.D 8270.M Mon Oct 03 14:38:26 2005 ENV Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100305\1003707.D Vial: 7
Acq On : 3 Oct 2005 11:06 am Operator: MRC
Sample : SVCAL04 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 03 11:34:33 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7100305\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Mon Oct 03 10:22:41 2005
Response via : Initial Calibration
DataAcq Meth : 8270

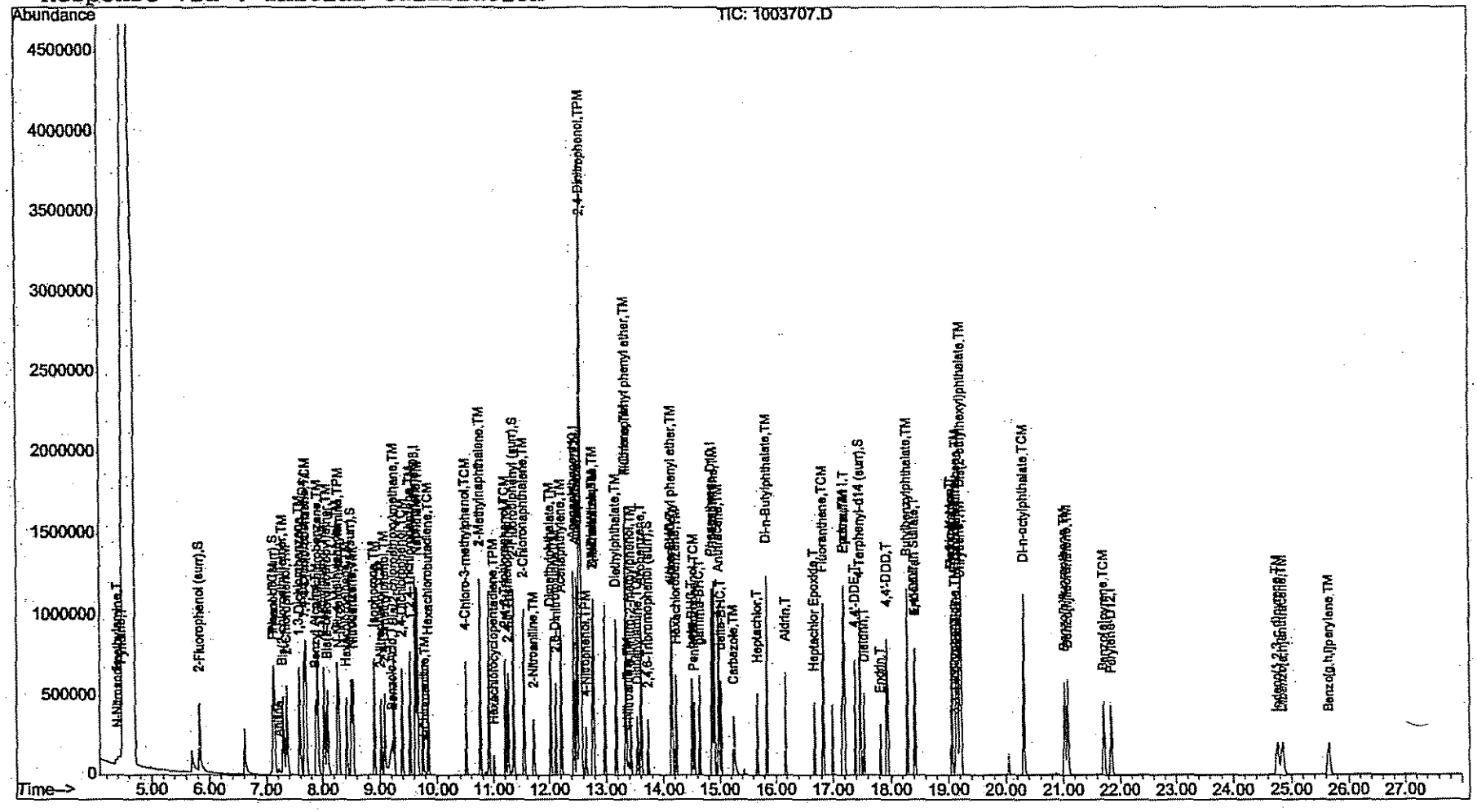
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
71)	delta-BHC	15.03	183	62851	4.08	ug/mL	99
72)	Heptachlor	15.67	100	85549	4.34	ug/mL	95
73)	Aldrin	16.18	66	90853	4.06	ug/mL	98
74)	Heptachlor Epoxide	16.69	353	27429	3.97	ug/mL	100
75)	Endosulfan I	17.19	195	22609	4.50	ug/mL#	100
76)	4,4'-DDE	17.39	246	120722	4.07	ug/mL	98
77)	Dieldrin	17.53	79	118124	4.10	ug/mL#	92
78)	Endrin	17.82	263	18423	4.92	ug/mL#	83
79)	Endosulfan II	0.00	35	0	N.D.		
80)	4,4'-DDD	17.93	235	216865	4.19	ug/mL#	100
81)	Endosulfan Sulfate	18.42	272	28516	4.48	ug/mL#	100
82)	4,4'-DDT	18.41	235	148106	5.00	ug/mL	98
83)	Endrin Aldehyde	0.00	35	0	N.D.		
84)	Endrin Ketone	19.06	317	19859	4.52	ug/mL#	64
85)	Methoxychlor	19.06	227	287358	5.06	ug/mL	97
87)	Pyrene	17.20	202	642057	3.62	ug/mL	99
88)	Butylbenzylphthalate	18.29	149	369024	3.67	ug/mL	99
89)	Benzo[a]anthracene	19.15	228	507511	4.02	ug/mL	97
90)	3,3'-Dichlorobenzidine	19.12	252	30732	3.70	ug/mL#	89
91)	Chrysene	19.20	228	488074	4.14	ug/mL	99
92)	Bis(2-ethylhexyl)phthalate	19.22	149	528354	3.82	ug/mL	99
95)	Di-n-octylphthalate	20.32	149	904141	3.01	ug/mL	100
96)	Benzo[b]fluoranthene	21.03	252	462078	3.64	ug/mL	98
97)	Benzo[k]fluoranthene	21.09	252	459657	3.61	ug/mL	99
98)	Benzo[a]pyrene	21.72	252	397765	3.94	ug/mL	98
99)	Indeno(1,2,3-c,d)pyrene	24.76	276	273224	5.28	ug/mL	93
100)	Dibenzo[a,h]anthracene	24.85	278	266187	5.28	ug/mL	94
101)	Benzo[g,h,i]perylene	25.65	276	276735	5.27	ug/mL	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100305\1003707.D Vial: 7
Acq On : 3 Oct 2005 11:06 am Operator: MRC
Sample : SVCAL04 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 14:03 2005 Quant Results File: 8270.RES

Method : C:\MSDCHEM\1\DATA\7100305\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Mon Oct 03 14:11:55 2005
Response via : Initial Calibration



1003707.D 8270.M Mon Oct 03 14:38:29 2005 ENV Page 4

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100305\1003708.D Vial: 8
Acq On : 3 Oct 2005 10:29 am Operator: MRC
Sample : SVCAL02 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 03 10:57:32 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7100305\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Mon Oct 03 10:22:41 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.68	152	200069	4.00	ug/mL	0.00
19) Naphthalene-D8	9.63	136	806664	4.00	ug/mL	0.00
34) Acenaphthene-d10	12.45	164	384122	4.00	ug/mL	0.00
56) Phenanthrene-D10	14.86	188	610937	4.00	ug/mL	0.00
86) Chrysene-D12	19.16	240	399155	4.00	ug/mL	0.00
94) Perylene-D12	21.85	264	294212	4.00	ug/mL	0.00
System Monitoring Compounds						
17) 2-Fluorophenol (surr)	5.83	112	122003	2.12	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	21.20%	
18) Phenol-d6 (surr)	7.12	99	169615	2.14	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	21.40%	
33) Nitrobenzene-d5 (surr)	8.51	128	64690	2.16	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	21.60%	
54) 2-Fluorobiphenyl (surr)	11.36	172	258895	2.24	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	22.40%	
55) 2,4,6-Tribromophenol (surr	13.72	330	23039	2.07	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	20.70%	
93) 4-Terphenyl-d14 (surr)	17.47	244	223219	1.95	ug/mL	0.00
Spiked Amount 10.000			Recovery	=	19.50%	

Target Compounds						Qvalue
2) Pyridine	0.00	79	0	N.D.	d	
3) N-Nitrosodimethylamine	0.00	74	0	N.D.	d	
4) Phenol	7.14	94	179834	2.11	ug/mL	95
5) Aniline	7.23	93	37033	3.19	ug/mL#	86
6) Bis(2-chloroethyl)ether	7.30	93	147879m	2.12	ug/mL	
7) 2-Chlorophenol	7.36	128	139579	2.13	ug/mL	96
8) Benzyl Alcohol	7.89	108	86752	2.12	ug/mL	99
9) 1,3-Dichlorobenzene	7.59	146	145782	2.15	ug/mL	99
10) 1,4-Dichlorobenzene	7.70	146	147740	2.13	ug/mL	98
11) 1,2-Dichlorobenzene	7.92	146	136514	2.22	ug/mL	99
12) 2-Methylphenol	8.03	107	103543	2.14	ug/mL	98
13) 3-, 4-Methylphenol	8.27	107	148517	2.14	ug/mL	99
14) Bis(2-chloroisopropyl)ethe	8.09	45	241956	2.06	ug/mL	97
15) N-Nitrosodi-n-propylamine	8.29	70	83126	2.20	ug/mL	99
16) Hexachloroethane	8.43	117	51974	2.09	ug/mL	96
20) Nitrobenzene	8.54	77	140378	2.13	ug/mL	99
21) Isophorone	8.91	82	231101	2.12	ug/mL	98
22) 2-Nitrophenol	9.03	139	80301	2.22	ug/mL	98
23) 2,4-Dimethylphenol	9.09	122	73811	2.15	ug/mL	96
24) Benzoic Acid	9.20	122	69583	2.15	ug/mL#	100

(#) = qualifier out of range (m) = manual integration
1003708.D 8270.M Mon Oct 03 14:38:32 2005 ENV Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100305\1003708.D Vial: 8
Acq On : 3 Oct 2005 10:29 am Operator: MRC
Sample : SVCAL02 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 03 10:57:32 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7100305\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Mon Oct 03 10:22:41 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25)	Bis(2-chloroethoxy)methane	9.25	93	160503	2.18	ug/mL	99
26)	2,4-Dichlorophenol	9.39	162	101147	2.17	ug/mL	98
27)	1,2,4-Trichlorobenzene	9.53	180	114043	2.21	ug/mL	98
28)	Naphthalene	9.66	128	374925	2.23	ug/mL	99
29)	4-Chloroaniline	9.78	127	21799	1.69	ug/mL#	100
30)	Hexachlorobutadiene	9.85	225	54629	2.14	ug/mL	97
31)	4-Chloro-3-methylphenol	10.51	107	105440	2.12	ug/mL	96
32)	2-Methylnaphthalene	10.76	142	277612	2.24	ug/mL	98
35)	Hexachlorocyclopentadiene	11.01	237	14545	2.67	ug/mL	96
36)	2,4,6-Trichlorophenol	11.21	196	72558	2.23	ug/mL	94
37)	2,4,5-Trichlorophenol	11.27	196	75428	2.24	ug/mL	100
38)	2-Chloronaphthalene	11.55	162	222846	2.22	ug/mL	97
39)	2-Nitroaniline	11.72	65	62545	2.04	ug/mL	99
40)	3-Nitroaniline	12.79	138	4377m	1.18	ug/mL	
41)	1-Methylnaphthalene	10.76	142	277612	2.44	ug/mL	100
42)	Dimethylphthalate	12.03	163	249635	2.15	ug/mL	100
43)	Acenaphthylene	12.21	152	319471	2.30	ug/mL	97
44)	2,6-Dinitrotoluene	12.12	165	53815	2.12	ug/mL	99
45)	Acenaphthene	12.50	153	220601	2.21	ug/mL	99
46)	2,4-Dinitrophenol	12.58	184	33839	2.34	ug/mL	97
47)	4-Nitrophenol	12.65	109	23436	2.43	ug/mL#	80
48)	Dibenzofuran	12.79	168	319637	2.27	ug/mL	97
49)	2,4-Dinitrotoluene	12.77	165	70092	2.25	ug/mL#	99
50)	Fluorene	13.34	166	229899	2.21	ug/mL	99
51)	Diethylphthalate	13.18	149	257009	2.20	ug/mL	99
52)	4-Chlorophenyl phenyl ethe	13.35	204	109455	2.18	ug/mL	96
53)	4-Nitroaniline	13.38	138	27375	3.45	ug/mL#	84
57)	4,6-Dinitro-2-methylphenol	13.43	198	39809	2.14	ug/mL	99
58)	Diphenylamine	13.54	169	89947	2.23	ug/mL	96
59)	4-bromophenyl phenyl ether	14.14	248	60382	2.17	ug/mL	95
60)	Hexachlorobenzene	14.22	284	56475	2.09	ug/mL	99
61)	Pentachlorophenol	14.55	266	38228	2.55	ug/mL	97
62)	Phenanthrene	14.90	178	360476	2.24	ug/mL	98
63)	Carbazole	15.25	167	231218	2.84	ug/mL	99
64)	Anthracene	14.98	178	332589	2.21	ug/mL	99
65)	Azobenzene	13.61	77	274793	2.10	ug/mL	100
66)	Di-n-Butylphthalate	15.85	149	456786	2.23	ug/mL	100
67)	Fluoranthene	16.83	202	334759	2.25	ug/mL	98
68)	alpha-BHC	14.16	183	41982	2.25	ug/mL	89
69)	beta-BHC	14.50	181	35461	2.17	ug/mL	100
70)	gamma-BHC	14.64	183	35496	2.15	ug/mL	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100305\1003708.D Vial: 8
Acq On : 3 Oct 2005 10:29 am Operator: MRC
Sample : SVCAL02 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 03 10:57:32 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7100305\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Mon Oct 03 10:22:41 2005
Response via : Initial Calibration
DataAcq Meth : 8270

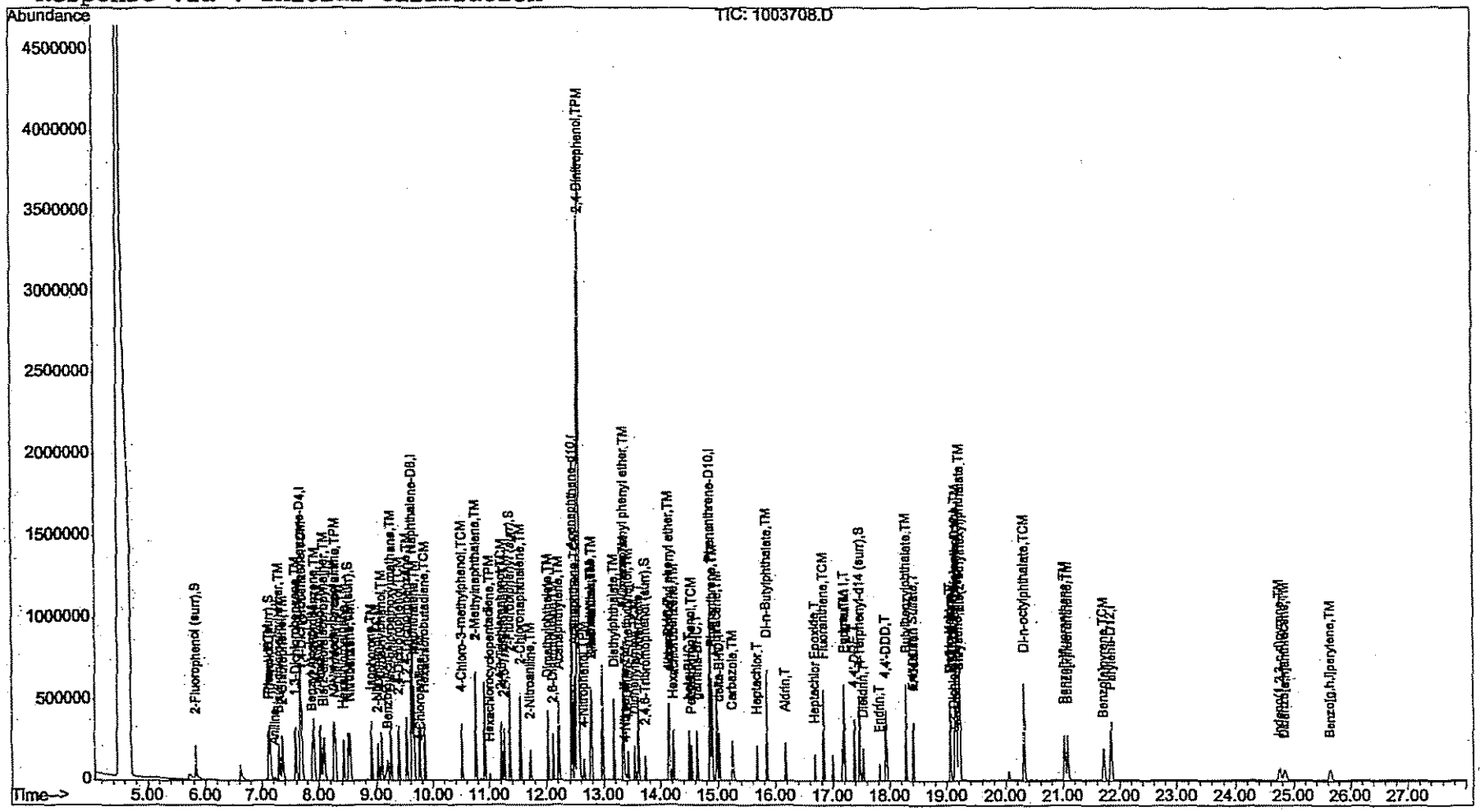
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
71)	delta-BHC	15.02	183	32765	2.19	ug/mL	97
72)	Heptachlor	15.67	100	43427	2.26	ug/mL	95
73)	Aldrin	16.18	66	46633	2.14	ug/mL	93
74)	Heptachlor Epoxide	16.69	353	13258	1.97	ug/mL	96
75)	Endosulfan I	17.19	195	10259	2.10	ug/mL#	100
76)	4,4'-DDE	17.39	246	64341	2.23	ug/mL	99
77)	Dieldrin	17.53	79	61626	2.20	ug/mL	93
78)	Endrin	17.82	263	9232	2.53	ug/mL	97
79)	Endosulfan II	0.00	35	0	N.D.		
80)	4,4'-DDD	17.93	235	114074	2.26	ug/mL#	100
81)	Endosulfan Sulfate	18.42	272	14777	2.38	ug/mL#	100
82)	4,4'-DDT	18.41	235	72441	2.51	ug/mL	99
83)	Endrin Aldehyde	0.00	35	0	N.D.		
84)	Endrin Ketone	19.06	317	9482	2.22	ug/mL#	79
85)	Methoxychlor	19.07	227	145671	2.63	ug/mL	98
87)	Pyrene	17.20	202	341783	2.02	ug/mL	98
88)	Butylbenzylphthalate	18.29	149	194072	2.02	ug/mL	99
89)	Benzo[a]anthracene	19.14	228	259356	2.15	ug/mL	97
90)	3,3'-Dichlorobenzidine	19.12	252	13859	1.74	ug/mL	90
91)	Chrysene	19.20	228	250771	2.22	ug/mL	99
92)	Bis(2-ethylhexyl)phthalate	19.22	149	285122	2.15	ug/mL	98
95)	Di-n-octylphthalate	20.32	149	458857	1.76	ug/mL	100
96)	Benzo[b]fluoranthene	21.02	252	215459	1.96	ug/mL	99
97)	Benzo[k]fluoranthene	21.08	252	215223	1.96	ug/mL	98
98)	Benzo[a]pyrene	21.72	252	175704	2.01	ug/mL	99
99)	Indeno(1,2,3-c,d)pyrene	24.75	276	105141	2.35	ug/mL	98
100)	Dibenzo[a,h]anthracene	24.84	278	99942	2.29	ug/mL#	90
101)	Benzo[g,h,i]perylene	25.64	276	105181	2.32	ug/mL	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100305\1003708.D Vial: 8
Acq On : 3 Oct 2005 10:29 am Operator: MRC
Sample : SVCAL02 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 14:03 2005 Quant Results File: 8270.RES

Method : C:\MSDCHEM\1\DATA\7100305\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Mon Oct 03 14:11:55 2005
Response via : Initial Calibration



1003708.D 8270.M Mon Oct 03 14:38:35 2005 ENV Page 4

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100305\1003709.D Vial: 9
Acq On : 3 Oct 2005 9:51 am Operator: MRC
Sample : SVCAL01 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 03 10:20:03 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7100305\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Mon Oct 03 09:50:07 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.68	152	232545	4.00 ug/mL	-0.02
19) Naphthalene-D8	9.63	136	939142	4.00 ug/mL	-0.02
34) Acenaphthene-d10	12.45	164	445367	4.00 ug/mL	-0.02
56) Phenanthrene-D10	14.86	188	721300	4.00 ug/mL	-0.03
86) Chrysene-D12	19.16	240	478822	4.00 ug/mL	-0.05
94) Perylene-D12	21.85	264	371404	4.00 ug/mL	-0.04
System Monitoring Compounds					
17) 2-Fluorophenol (surr)	5.84	112	66560	1.01 ug/mL	-0.05
Spiked Amount 10.000			Recovery	= 10.10%	
18) Phenol-d6 (surr)	7.12	99	96026	1.05 ug/mL	-0.07
Spiked Amount 10.000			Recovery	= 10.50%	
33) Nitrobenzene-d5 (surr)	8.51	128	36411	1.05 ug/mL	-0.05
Spiked Amount 10.000			Recovery	= 10.50%	
54) 2-Fluorobiphenyl (surr)	11.36	172	146195	1.09 ug/mL	-0.03
Spiked Amount 10.000			Recovery	= 10.90%	
55) 2,4,6-Tribromophenol (surr	13.72	330	13500	1.05 ug/mL	-0.04
Spiked Amount 10.000			Recovery	= 10.50%	
93) 4-Terphenyl-d14 (surr)	17.47	244	130961	0.95 ug/mL	-0.05
Spiked Amount 10.000			Recovery	= 9.50%	

Target Compounds					Qvalue
2) Pyridine	0.00	79	0	N.D.	
3) N-Nitrosodimethylamine	0.00	74	0	N.D. d	
4) Phenol	7.14	94	101249	1.03 ug/mL	96
5) Aniline	7.23	93	26189	2.28 ug/mL#	1
6) Bis(2-chloroethyl)ether	7.30	93	92792	1.14 ug/mL	97
7) 2-Chlorophenol	7.36	128	79873	1.05 ug/mL	93
8) Benzyl Alcohol	7.89	108	46459	0.98 ug/mL	94
9) 1,3-Dichlorobenzene	7.59	146	82337	1.04 ug/mL	99
10) 1,4-Dichlorobenzene	7.70	146	85367	1.06 ug/mL	99
11) 1,2-Dichlorobenzene	7.92	146	77311	1.08 ug/mL	98
12) 2-Methylphenol	8.04	107	58830	1.05 ug/mL	97
13) 3-, 4-Methylphenol	8.27	107	84542	1.06 ug/mL	98
14) Bis(2-chloroisopropyl)ethe	8.09	45	135903	0.98 ug/mL	98
15) N-Nitrosodi-n-propylamine	8.29	70	46127	1.04 ug/mL	97
16) Hexachloroethane	8.43	117	29279	1.01 ug/mL	88
20) Nitrobenzene	8.54	77	79452	1.03 ug/mL	99
21) Isophorone	8.91	82	131168	1.03 ug/mL	98
22) 2-Nitrophenol	9.03	139	43874	1.05 ug/mL	94
23) 2,4-Dimethylphenol	9.09	122	43921	1.10 ug/mL	96
24) Benzoic Acid	9.18	122	38617m	1.03 ug/mL	

(#) = qualifier out of range (m) = manual integration
1003709.D 8270.M Mon Oct 03 14:38:39 2005 ENV Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100305\1003709.D Vial: 9
Acq On : 3 Oct 2005 9:51 am Operator: MRC
Sample : SVCAL01 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 03 10:20:03 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7100305\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Mon Oct 03 09:50:07 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25)	Bis(2-chloroethoxy)methane	9.25	93	90189	1.05	ug/mL	99
26)	2,4-Dichlorophenol	9.39	162	58798	1.09	ug/mL	96
27)	1,2,4-Trichlorobenzene	9.53	180	66401	1.11	ug/mL	98
28)	Naphthalene	9.66	128	217424	1.11	ug/mL	98
29)	4-Chloroaniline	9.78	127	11133	0.72	ug/mL#	47
30)	Hexachlorobutadiene	9.85	225	31644	1.07	ug/mL	98
31)	4-Chloro-3-methylphenol	10.51	107	62168	1.08	ug/mL	95
32)	2-Methylnaphthalene	10.76	142	159658	1.11	ug/mL	98
35)	Hexachlorocyclopentadiene	11.01	237	7877	1.30	ug/mL#	93
36)	2,4,6-Trichlorophenol	11.21	196	40997	1.09	ug/mL	96
37)	2,4,5-Trichlorophenol	11.27	196	43153	1.12	ug/mL	99
38)	2-Chloronaphthalene	11.55	162	127798	1.10	ug/mL	98
39)	2-Nitroaniline	11.72	65	37345	1.06	ug/mL	90
40)	3-Nitroaniline	12.79	138	738m	0.17	ug/mL	
41)	1-Methylnaphthalene	10.76	142	159658	1.23	ug/mL	98
42)	Dimethylphthalate	12.03	163	147331	1.10	ug/mL	99
43)	Acenaphthylene	12.22	152	184795	1.15	ug/mL	98
44)	2,6-Dinitrotoluene	12.12	165	29782	1.01	ug/mL	93
45)	Acenaphthene	12.50	153	128082	1.11	ug/mL	99
46)	2,4-Dinitrophenol	12.58	184	18655	1.17	ug/mL#	55
47)	4-Nitrophenol	12.65	109	13783	1.28	ug/mL	87
48)	Dibenzofuran	12.79	168	187473	1.15	ug/mL	92
49)	2,4-Dinitrotoluene	12.77	165	39917	1.11	ug/mL#	83
50)	Fluorene	13.34	166	138496	1.15	ug/mL	99
51)	Diethylphthalate	13.18	149	149040	1.10	ug/mL	99
52)	4-Chlorophenyl phenyl ethe	13.35	204	66018	1.14	ug/mL#	88
53)	4-Nitroaniline	13.38	138	14876	1.77	ug/mL#	77
57)	4,6-Dinitro-2-methylphenol	13.42	198	21518	1.04	ug/mL#	87
58)	Diphenylamine	13.54	169	57996	1.22	ug/mL	94
59)	4-bromophenyl phenyl ether	14.14	248	34335	1.05	ug/mL#	85
60)	Hexachlorobenzene	14.22	284	33049	1.04	ug/mL#	86
61)	Pentachlorophenol	14.55	266	20973	1.22	ug/mL	98
62)	Phenanthrene	14.90	178	214006	1.13	ug/mL	98
63)	Carbazole	15.25	167	140747	1.49	ug/mL	98
64)	Anthracene	14.98	178	198305	1.12	ug/mL	99
65)	Azobenzene	13.61	77	159769	1.02	ug/mL	95
66)	Di-n-Butylphthalate	15.85	149	266421	1.10	ug/mL#	98
67)	Fluoranthene	16.83	202	197972	1.14	ug/mL#	93
68)	alpha-BHC	14.16	183	23963	1.08	ug/mL	94
69)	beta-BHC	14.50	181	19848	1.04	ug/mL	96
70)	gamma-BHC	14.64	183	20671	1.07	ug/mL	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100305\1003709.D Vial: 9
Acq On : 3 Oct 2005 9:51 am Operator: MRC
Sample : SVCAL01 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 03 10:20:03 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7100305\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Mon Oct 03 09:50:07 2005
Response via : Initial Calibration
DataAcq Meth : 8270

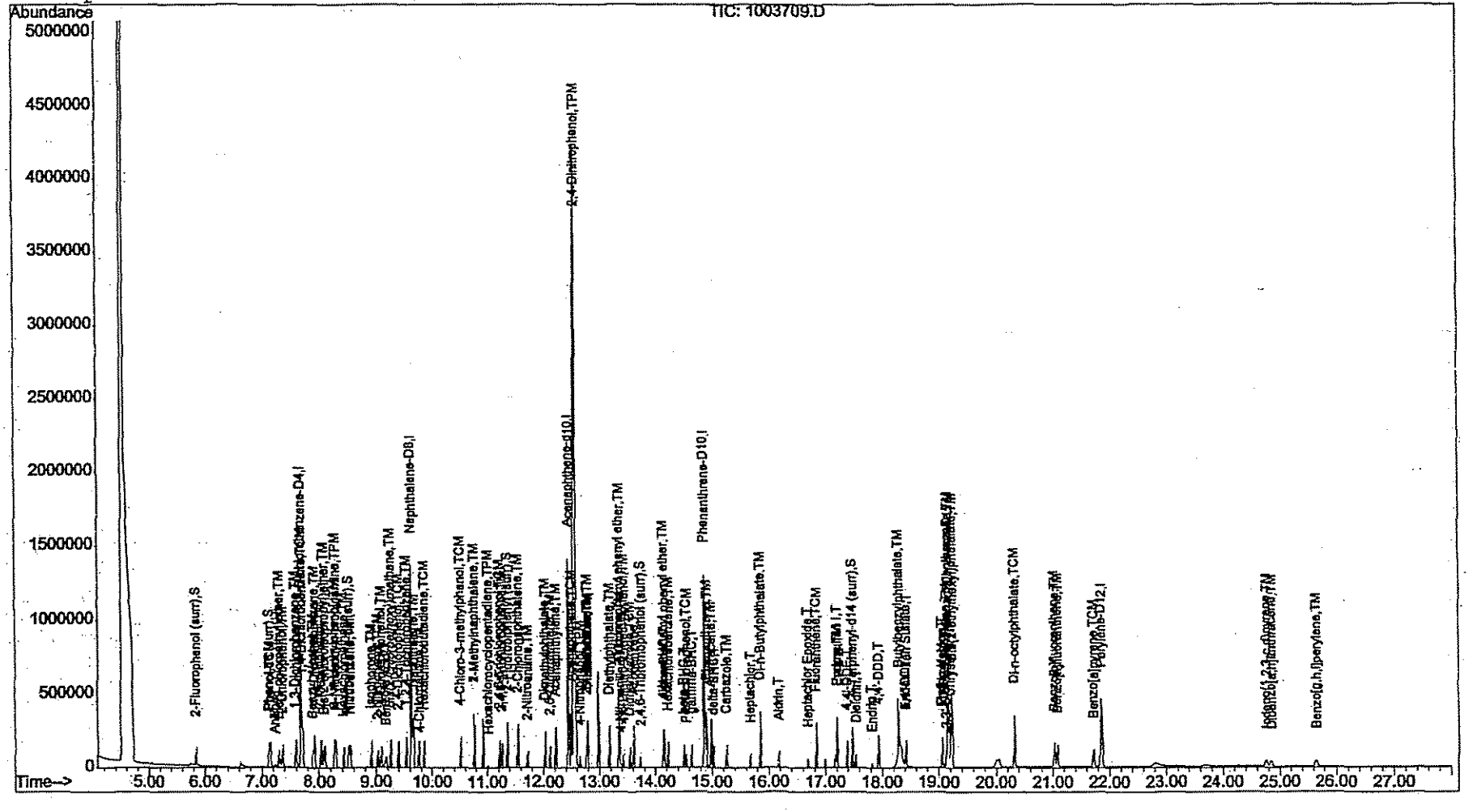
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	delta-BHC	15.03	183	18262	1.03 ug/mL	97
72)	Heptachlor	15.67	100	25025	1.13 ug/mL#	74
73)	Aldrin	16.18	66	27347	1.05 ug/mL#	74
74)	Heptachlor Epoxide	16.68	353	6753	0.84 ug/mL	92
75)	Endosulfan I	17.19	195	5264	0.92 ug/mL#	51
76)	4,4'-DDE	17.39	246	37211	1.10 ug/mL	98
77)	Dieldrin	17.53	79	35189	1.05 ug/mL#	83
78)	Endrin	17.82	263	4646	1.18 ug/mL	100
79)	Endosulfan II	0.00	35	0	N.D.	
80)	4,4'-DDD	17.93	235	67549	1.15 ug/mL#	95
81)	Endosulfan Sulfate	18.42	272	7774	1.11 ug/mL#	40
82)	4,4'-DDT	18.41	235	42923	1.39 ug/mL	95
83)	Endrin Aldehyde	0.00	35	0	N.D.	
84)	Endrin Ketone	19.06	317	4355	0.89 ug/mL#	66
85)	Methoxychlor	19.07	227	86635	1.48 ug/mL	97
87)	Pyrene	17.20	202	203705	1.00 ug/mL#	91
88)	Butylbenzylphthalate	18.29	149	114436	0.99 ug/mL	89
89)	Benzo[a]anthracene	19.14	228	154974	1.08 ug/mL	99
90)	3,3'-Dichlorobenzidine	19.12	252	7303	0.82 ug/mL#	85
91)	Chrysene	19.20	228	148601	1.11 ug/mL	99
92)	Bis(2-ethylhexyl)phthalate	19.22	149	171328	1.08 ug/mL#	94
95)	Di-n-octylphthalate	20.32	149	277065	0.83 ug/mL	100
96)	Benzo[b]fluoranthene	21.02	252	133555m	0.97 ug/mL	
97)	Benzo[k]fluoranthene	21.08	252	131719	0.94 ug/mL	98
98)	Benzo[a]pyrene	21.72	252	112233	1.03 ug/mL	98
99)	Indeno(1,2,3-c,d)pyrene	24.75	276	66456m	1.22 ug/mL	
100)	Dibenzo[a,h]anthracene	24.84	278	61451	1.15 ug/mL#	89
101)	Benzo[g,h,i]perylene	25.64	276	64976	1.18 ug/mL	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100305\1003709.D Vial: 9
Acq On : 3 Oct 2005 9:51 am Operator: MRC
Sample : SVCAL01 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 14:02 2005 Quant Results File: 8270.RES

Method : C:\MSDCHEM\1\DATA\7100305\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Mon Oct 03 14:11:55 2005
Response via : Initial Calibration



N.C. CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC

8270-625 CVS Raw Data

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\7100705\1007702.D Vial: 2
Acq On : 7 Oct 2005 11:11 am Operator: MRC
Sample : SVCVS24 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\DATA\7100705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-D4	1.000	1.000	0.0	67	-0.03
2	T	Pyridine	0.651	1.013	-55.6#	81	-0.11
3	T	N-Nitrosodimethylamine	0.443	0.501	-13.1	59	-0.10
4	TCM	Phenol	1.674	1.591	5.0	67	-0.01
5	TM	Bis(2-chloroethyl)ether	1.370	1.411	-3.0	78	-0.02
6	TM	2-Chlorophenol	1.318	1.304	1.1	69	-0.03
7	TM	Benzyl Alcohol	0.835	0.858	-2.8	70	-0.02
8	TM	1,3-Dichlorobenzene	1.346	1.320	1.9	69	-0.03
9	TCM	1,4-Dichlorobenzene	1.371	1.357	1.0	69	-0.03
10	TM	1,2-Dichlorobenzene	1.228	1.211	1.4	70	-0.03
11	TM	2-Methylphenol	0.972	0.945	2.8	66	-0.02
12	TM	3-, 4-Methylphenol	1.409	1.362	3.3	66	0.00
13	TM	Bis(2-chloroisopropyl)ether	2.226	2.172	2.4	69	-0.02
14	TPM	N-Nitrosodi-n-propylamine	0.771	0.694	10.0	62	0.00
15	TM	Hexachloroethane	0.485	0.479	1.2	70	-0.03
16	S	2-Fluorophenol (surr)	1.150	1.201	-4.4	71	-0.03
17	S	Phenol-d6 (surr)	1.590	1.566	1.5	69	-0.01
18	I	Naphthalene-D8	1.000	1.000	0.0	67	-0.03
19	TM	Nitrobenzene	0.319	0.298	6.6	68	-0.02
20	TM	Isophorone	0.526	0.498	5.3	68	-0.01
21	TCM	2-Nitrophenol	0.183	0.173	5.5	66	-0.03
22	TM	2,4-Dimethylphenol	0.169	0.171	-1.2	66	-0.02
23	T	Benzoic Acid	0.192	0.192	0.0	61	0.07
24	TM	Bis(2-chloroethoxy)methane	0.356	0.330	7.3	68	-0.02
25	TCM	2,4-Dichlorophenol	0.236	0.227	3.8	67	-0.02
26	TM	1,2,4-Trichlorobenzene	0.255	0.238	6.7	68	-0.03
27	TM	Naphthalene	0.832	0.775	6.9	68	-0.03
28	TM	4-Chloroaniline	0.073	0.187	-156.2#	115	-0.08
29	TCM	Hexachlorobutadiene	0.124	0.116	6.5	68	-0.03
30	TCM	4-Chloro-3-methylphenol	0.249	0.238	4.4	67	-0.02
31	TM	2-Methylnaphthalene	0.616	0.577	6.3	68	-0.03
32	S	Nitrobenzene-d5 (surr)	0.150	0.142	5.3	66	-0.02
33	I	Acenaphthene-d10	1.000	1.000	0.0	67	-0.03
34	TPM	Hexachlorocyclopentadiene	0.088	0.100	-13.6	68	-0.03
35	TCM	2,4,6-Trichlorophenol	0.349	0.330	5.4	66	-0.03
36	TM	2,4,5-Trichlorophenol	0.364	0.350	3.8	70	-0.02
37	TM	2-Chloronaphthalene	1.035	0.958	7.4	68	-0.02
38	TM	2-Nitroaniline	0.324	0.353	-9.0	68	-0.02
39	TM	3-Nitroaniline	0.023	0.024#	-4.3	63	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\7100705\1007702.D Vial: 2
Acq On : 7 Oct 2005 11:11 am Operator: MRC
Sample : SVCVS24 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\DATA\7100705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40	T	1-Methylnaphthalene	1.288	1.062	17.5	60	-0.03
41	TM	Dimethylphthalate	1.195	1.094	8.5	66	-0.02
42	TM	Acenaphthylene	1.485	1.338	9.9	78	-0.03
43	TM	2,6-Dinitrotoluene	0.270	0.255	5.6	65	-0.02
44	TCM	Acenaphthene	1.032	0.958	7.2	67	-0.02
45	TPM	2,4-Dinitrophenol	0.177	0.164	7.3	60	-0.02
46	TPM	4-Nitrophenol	0.140	0.160	-14.3	70	0.00
47	TM	Dibenzofuran	1.468	1.340	8.7	68	-0.03
48	TM	2,4-Dinitrotoluene	0.329	0.291	11.6	66	-0.01
49	TM	Fluorene	1.105	0.989	10.5	71	-0.02
50	TM	Diethylphthalate	1.196	1.097	8.3	68	-0.01
51	TM	4-Chlorophenyl phenyl ether	0.524	0.459	12.4	70	-0.02
52	TM	4-Nitroaniline	0.140	0.119	15.0	0#	-0.02
53	S	2-Fluorobiphenyl (surr)	1.192	1.123	5.8	68	-0.03
54	S	2,4,6-Tribromophenol (surr)	0.125	0.124	0.8	64	-0.02
55	I	Phenanthrene-D10	1.000	1.000	0.0	66	-0.03
56	TM	4,6-Dinitro-2-methylphenol	0.134	0.126	6.0	60	-0.01
57	TCM	Diphenylamine	0.247	0.227	8.1	0#	-0.02
58	TM	4-bromophenyl phenyl ether	0.177	0.167	5.6	67	-0.02
59	TM	Hexachlorobenzene	0.170	0.161	5.3	67	-0.02
60	TCM	Pentachlorophenol	0.124	0.124	0.0	64	-0.02
61	TM	Phenanthrene	1.048	0.961	8.3	67	-0.02
62	TM	Carbazole	0.663	0.331	50.1#	0#	-0.04
63	TM	Anthracene	0.981	0.923	5.9	67	-0.02
64	T	Azobenzene	0.792	0.725	8.5	69	-0.03
65	TM	Di-n-Butylphthalate	1.287	1.175	8.7	69	-0.02
66	TCM	Fluoranthene	0.998	0.960	3.8	68	-0.02
67	T	alpha-BHC	0.118	0.106	10.2	69	-0.02
68	T	beta-BHC	0.103	0.098	4.9	68	-0.02
69	T	gamma-BHC	0.104	0.095	8.7	68	-0.03
70	T	delta-BHC	0.095	0.092	3.2	71	-0.02
71	T	Heptachlor	0.126	0.117	7.1	69	-0.03
72	T	Aldrin	0.131	0.118	9.9	71	-0.03
73	T	Heptachlor Epoxide	0.043	0.043#	0.0	63	-0.03
74	T	Endosulfan I	0.031	0.030#	3.2	71	-0.02
75	T	4,4'-DDE	0.187	0.179	4.3	68	-0.02
76	T	Dieldrin	0.173	0.157	9.2	70	-0.03
77	T	Endrin	0.029	0.030#	-3.4	66	-0.03
78	T	Endosulfan II	0.000	0.000#	0.0	0#	-18.31#
79	T	4,4'-DDD	0.335	0.335	0.0	71	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\7100705\1007702.D Vial: 2
Acq On : 7 Oct 2005 11:11 am Operator: MRC
Sample : SVCVS24 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\DATA\7100705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
80	T	Endosulfan Sulfate	0.041	0.042#	-2.4	77	-0.02
81	T	4,4'-DDT	0.226	0.229	-1.3	70	-0.02
82	T	Endrin Aldehyde	0.000	0.000#	0.0	0#	-18.29#
83	T	Endrin Ketone	0.030	0.032#	-6.7	68	-0.03
84	T	Methoxychlor	0.436	0.444	-1.8	74	-0.02
85	I	Chrysene-D12	1.000	1.000	0.0	73	-0.02
86	TM	Pyrene	1.557	1.387	10.9	70	-0.02
87	TM	Butylbenzylphthalate	0.866	0.768	11.3	71	-0.02
88	TM	Benzo[a]anthracene	1.225	1.180	3.7	73	-0.02
89	TM	3,3'-Dichlorobenzidine	0.097	0.262	-170.1#	140	-0.02
90	TM	Chrysene	1.117	1.099	1.6	80	-0.02
91	TM	Bis(2-ethylhexyl)phthalate	1.229	1.006	18.1	78	-0.02
92	S	4-Terphenyl-d14 (surr)	1.041	0.951	8.6	69	-0.02
93	I	Perylene-D12	1.000	1.000	0.0	74	-0.05
94	TCM	Di-n-octylphthalate	2.723	2.516	7.6	71	-0.02
95	TM	Benzo[b]fluoranthene	1.452	1.442	0.7	70	-0.02
96	TM	Benzo[k]fluoranthene	1.366	1.406	-2.9	81	-0.02
97	TCM	Benzo[a]pyrene	1.187	1.220	-2.8	76	-0.03
98	TM	Indeno(1,2,3-c,d)pyrene	0.783	0.890	-13.7	78	-0.05
99	TM	Dibenzo[a,h]anthracene	0.761	0.903	-18.7	81	-0.05
100	TM	Benzo[g,h,i]perylene	0.762	0.881	-15.6	82	-0.04

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100705\1007702.D Vial: 2
Acq On : 7 Oct 2005 11:11 am Operator: MRC
Sample : SVCVS24 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 07 11:39:13 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7100705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Initial Calibration
DataAcq Meth : 8270

pc 10.07.05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.61	152	131054	4.00	ug/mL	-0.03
18) Naphthalene-D8	9.56	136	549248	4.00	ug/mL	-0.03
33) Acenaphthene-d10	12.37	164	263828	4.00	ug/mL	-0.03
55) Phenanthrene-D10	14.79	188	431141	4.00	ug/mL	-0.03
85) Chrysene-D12	19.10	240	298787	4.00	ug/mL	-0.02
93) Perylene-D12	21.73	264	221008	4.00	ug/mL	-0.05
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.76	112	944111	25.06	ug/mL	-0.03
Spiked Amount 10.000			Recovery = 250.60%			
17) Phenol-d6 (surr)	7.07	99	1231180	23.63	ug/mL	-0.01
Spiked Amount 10.000			Recovery = 236.30%			
32) Nitrobenzene-d5 (surr)	8.46	128	468854	22.70	ug/mL	-0.02
Spiked Amount 10.000			Recovery = 227.00%			
53) 2-Fluorobiphenyl (surr)	11.30	172	1777130	22.60	ug/mL	-0.03
Spiked Amount 10.000			Recovery = 226.00%			
54) 2,4,6-Tribromophenol (surr	13.66	330	196738	23.88	ug/mL	-0.02
Spiked Amount 10.000			Recovery = 238.80%			
92) 4-Terphenyl-d14 (surr)	17.41	244	1704295	21.93	ug/mL	-0.02
Spiked Amount 10.000			Recovery = 219.30%			
Target Compounds						Qvalue
2) Pyridine	4.23	79	796668	28.21	ug/mL	91
3) N-Nitrosodimethylamine	4.22	74	394239	21.56	ug/mL	98
4) Phenol	7.09	94	1251220m	22.82	ug/mL	
5) Bis(2-chloroethyl)ether	7.24	93	1109573m	24.71	ug/mL	
6) 2-Chlorophenol	7.30	128	1025405	23.74	ug/mL	99
7) Benzyl Alcohol	7.83	108	674327	24.66	ug/mL	97
8) 1,3-Dichlorobenzene	7.52	146	1038060	23.54	ug/mL	100
9) 1,4-Dichlorobenzene	7.63	146	1066830	23.74	ug/mL	100
10) 1,2-Dichlorobenzene	7.86	146	952100	23.67	ug/mL	98
11) 2-Methylphenol	7.98	107	743245	23.34	ug/mL	97
12) 3-, 4-Methylphenol	8.23	107	1071049	23.21	ug/mL	100
13) Bis(2-chloroisopropyl)ethe	8.03	45	1708234	23.43	ug/mL	100
14) N-Nitrosodi-n-propylamine	8.25	70	545549	21.59	ug/mL	98
15) Hexachloroethane	8.36	117	376551	23.70	ug/mL	96
19) Nitrobenzene	8.49	77	980543	22.36	ug/mL	98
20) Isophorone	8.86	82	1640636	22.73	ug/mL	99
21) 2-Nitrophenol	8.97	139	568864	22.66	ug/mL	95
22) 2,4-Dimethylphenol	9.04	122	564153	24.31	ug/mL	99
23) Benzoic Acid	9.28	122	632913m	24.06	ug/mL	
24) Bis(2-chloroethoxy)methane	9.20	93	1086075	22.20	ug/mL	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100705\1007702.D Vial: 2
Acq On : 7 Oct 2005 11:11 am Operator: MRC
Sample : SVCVS24 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 07 11:39:13 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7100705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25)	2,4-Dichlorophenol	9.34	162	746734	23.02	ug/mL	99
26)	1,2,4-Trichlorobenzene	9.47	180	782972	22.35	ug/mL	97
27)	Naphthalene	9.60	128	2554441	22.36	ug/mL	100
28)	4-Chloroaniline	9.71	127	617839m	38.32	ug/mL	
29)	Hexachlorobutadiene	9.79	225	381026	22.41	ug/mL	99
30)	4-Chloro-3-methylphenol	10.46	107	785405	22.99	ug/mL	99
31)	2-Methylnaphthalene	10.70	142	1901078	22.46	ug/mL	99
34)	Hexachlorocyclopentadiene	10.94	237	157792	27.26	ug/mL	100
35)	2,4,6-Trichlorophenol	11.15	196	521718	22.64	ug/mL	99
36)	2,4,5-Trichlorophenol	11.20	196	553405	23.06	ug/mL	98
37)	2-Chloronaphthalene	11.48	162	1516699	22.21	ug/mL	99
38)	2-Nitroaniline	11.67	65	559312	26.15	ug/mL	99
39)	3-Nitroaniline	12.73	138	37930	22.15	ug/mL	89
40)	1-Methylnaphthalene	10.86	142	1681007	19.78	ug/mL	97
41)	Dimethylphthalate	11.97	163	1731942	21.97	ug/mL	100
42)	Acenaphthylene	12.15	152	2117455	21.61	ug/mL	99
43)	2,6-Dinitrotoluene	12.07	165	404000	22.68	ug/mL	98
44)	Acenaphthene	12.44	153	1515986	22.26	ug/mL	98
45)	2,4-Dinitrophenol	12.52	184	259872	22.27	ug/mL	95
46)	4-Nitrophenol	12.62	109	253914	27.52	ug/mL	98
47)	Dibenzofuran	12.72	168	2120685	21.91	ug/mL	99
48)	2,4-Dinitrotoluene	12.72	165	460656	21.23	ug/mL	96
49)	Fluorene	13.28	166	1566070	21.49	ug/mL	99
50)	Diethylphthalate	13.13	149	1735886	22.00	ug/mL	100
51)	4-Chlorophenyl phenyl ethe	13.29	204	726366	21.00	ug/mL	98
52)	4-Nitroaniline	13.34	138	188613m	20.49	ug/mL	
56)	4,6-Dinitro-2-methylphenol	13.38	198	326530	22.55	ug/mL	94
57)	Diphenylamine	13.48	169	586085	28.98	ug/mL	98
58)	4-bromophenyl phenyl ether	14.08	248	431866	22.66	ug/mL	97
59)	Hexachlorobenzene	14.16	284	417071	22.77	ug/mL	96
60)	Pentachlorophenol	14.49	266	320208	24.02	ug/mL	99
61)	Phenanthrene	14.84	178	2485677	22.00	ug/mL	100
62)	Carbazole	15.18	167	856753	11.98	ug/mL	98
63)	Anthracene	14.92	178	2386387	22.58	ug/mL	100
64)	Azobenzene	13.54	77	1875656	21.98	ug/mL	99
65)	Di-n-Butylphthalate	15.79	149	3040144	21.92	ug/mL	100
66)	Fluoranthene	16.77	202	2483187	23.08	ug/mL	99
67)	alpha-BHC	14.10	183	274832	21.60	ug/mL	95
68)	beta-BHC	14.45	181	252967	22.80	ug/mL	98
69)	gamma-BHC	14.58	183	245870	21.99	ug/mL	99
70)	delta-BHC	14.96	183	236781	23.21	ug/mL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100705\1007702.D Vial: 2
Acq On : 7 Oct 2005 11:11 am Operator: MRC
Sample : SVCVS24 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 07 11:39:13 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7100705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	15.60	100	301702	22.23 ug/mL	96
72)	Aldrin	16.11	66	304562	21.50 ug/mL	97
73)	Heptachlor Epoxide	16.62	353	110548	24.02 ug/mL	100
74)	Endosulfan I	17.12	195	78625	23.17 ug/mL#	76
75)	4,4'-DDE	17.32	246	462672	22.91 ug/mL	100
76)	Dieldrin	17.47	79	406739	21.79 ug/mL	98
77)	Endrin	17.75	263	77737	24.76 ug/mL	97
78)	Endosulfan II	0.00	35	0	N.D.	
79)	4,4'-DDD	17.87	235	866642	23.99 ug/mL	100
80)	Endosulfan Sulfate	18.36	272	108867	24.64 ug/mL	95
81)	4,4'-DDT	18.35	235	593434	24.35 ug/mL	99
82)	Endrin Aldehyde	0.00	35	0	N.D.	
83)	Endrin Ketone	18.99	317	82540	25.76 ug/mL	99
84)	Methoxychlor	19.00	227	1147613	24.45 ug/mL	100
86)	Pyrene	17.14	202	2486308	21.37 ug/mL	100
87)	Butylbenzylphthalate	18.22	149	1377310	21.29 ug/mL	98
88)	Benzo[a]anthracene	19.08	228	2115252	23.12 ug/mL	99
89)	3,3'-Dichlorobenzidine	19.06	252	470572	42.94 ug/mL	97
90)	Chrysene	19.14	228	1970227	23.60 ug/mL	99
91)	Bis(2-ethylhexyl)phthalate	19.16	149	1803158	19.65 ug/mL	99
94)	Di-n-octylphthalate	20.24	149	3336466	22.18 ug/mL	100
95)	Benzo[b]fluoranthene	20.95	252	1912438	23.84 ug/mL	99
96)	Benzo[k]fluoranthene	21.01	252	1864347	24.70 ug/mL	99
97)	Benzo[a]pyrene	21.63	252	1618366	24.67 ug/mL	99
98)	Indeno(1,2,3-c,d)pyrene	24.61	276	1180599	27.27 ug/mL	98
99)	Dibenzo[a,h]anthracene	24.70	278	1196821	28.45 ug/mL	99
100)	Benzo[g,h,i]perylene	25.50	276	1167958	27.75 ug/mL	98

(#) = qualifier out of range (m) = manual integration

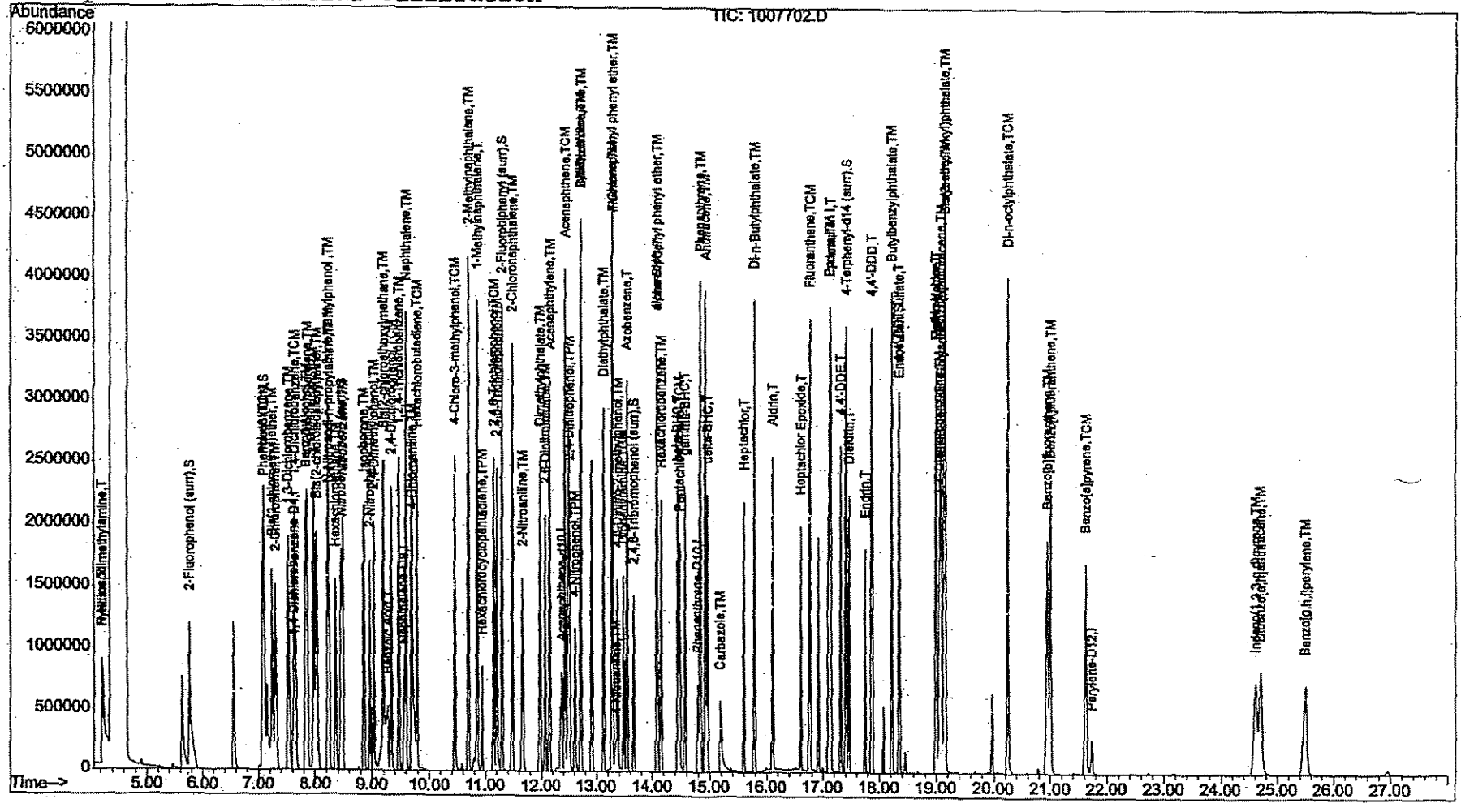
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100705\1007702.D
Acq On : 7 Oct 2005 11:11 am
Sample : SVCVS24
Misc :
MS Integration Params: rteint.p
Quant Time: Oct 7 13:40 2005

Vial: 2
Operator: MRC
Inst : MSD7
Multiplr: 1.00

Quant Results File: 8270.RES

Method : C:\MSDCHEM\1\DATA\7100705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Initial Calibration



1007702.D 8270.M Fri Oct 07 13:41:35 2005 ENV

Page 4

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7101005\1010703.D Vial: 3
Acq On : 10 Oct 2005 5:16 pm Operator: MRC
Sample : SVCVS06 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 10 17:44:03 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7101005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Initial Calibration
DataAcq Meth : 8270

oc 10-18-05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.56	152	127621	4.00	ug/mL	-0.08
18) Naphthalene-D8	9.51	136	521759	4.00	ug/mL	-0.08
33) Acenaphthene-d10	12.33	164	256838	4.00	ug/mL	-0.08
55) Phenanthrene-D10	14.74	188	415175	4.00	ug/mL	-0.09
85) Chrysene-D12	19.03	240	266605	4.00	ug/mL	-0.09
93) Perylene-D12	21.64	264	189283	4.00	ug/mL	-0.14
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.73	112	220482	6.01	ug/mL	-0.07
Spiked Amount 10.000			Recovery	=	60.10%	
17) Phenol-d6 (surr)	7.02	99	314784	6.20	ug/mL	-0.07
Spiked Amount 10.000			Recovery	=	62.00%	
32) Nitrobenzene-d5 (surr)	8.40	128	122260	6.23	ug/mL	-0.08
Spiked Amount 10.000			Recovery	=	62.30%	
53) 2-Fluorobiphenyl (surr)	11.25	172	475693	6.22	ug/mL	-0.08
Spiked Amount 10.000			Recovery	=	62.20%	
54) 2,4,6-Tribromophenol (surr	13.61	330	45108	5.62	ug/mL	-0.08
Spiked Amount 10.000			Recovery	=	56.20%	
92) 4-Terphenyl-d14 (surr)	17.35	244	434546	6.27	ug/mL	-0.09
Spiked Amount 10.000			Recovery	=	62.70%	
Target Compounds						Qvalue
2) Pyridine	4.22	79	145212	7.04	ug/mL	85
3) N-Nitrosodimethylamine	4.21	74	59706m	5.14	ug/mL	
4) Phenol	7.04	94	277827m	5.20	ug/mL	
5) Bis(2-chloroethyl)ether	7.19	93	299980m	6.86	ug/mL	
6) 2-Chlorophenol	7.25	128	264389	6.29	ug/mL	98
7) Benzyl Alcohol	7.78	108	168227	6.32	ug/mL	96
8) 1,3-Dichlorobenzene	7.48	146	270329	6.30	ug/mL	98
9) 1,4-Dichlorobenzene	7.59	146	279698	6.39	ug/mL	97
10) 1,2-Dichlorobenzene	7.81	146	254504	6.50	ug/mL	97
11) 2-Methylphenol	7.93	107	192723	6.21	ug/mL	95
12) 3-, 4-Methylphenol	8.17	107	269107	5.99	ug/mL	98
13) Bis(2-chloroisopropyl)ethe	7.98	45	460906	6.49	ug/mL	98
14) N-Nitrosodi-n-propylamine	8.18	70	147175	5.98	ug/mL	97
15) Hexachloroethane	8.31	117	101055	6.53	ug/mL	90
19) Nitrobenzene	8.43	77	266532	6.40	ug/mL	98
20) Isophorone	8.80	82	425806	6.21	ug/mL	98
21) 2-Nitrophenol	8.92	139	147232	6.17	ug/mL	95
22) 2,4-Dimethylphenol	8.99	122	111169	5.04	ug/mL	96
23) Benzoic Acid	9.14	122	132302	5.29	ug/mL#	1
24) Bis(2-chloroethoxy)methane	9.14	93	292615	6.30	ug/mL	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7101005\1010703.D Vial: 3
Acq On : 10 Oct 2005 5:16 pm Operator: MRC
Sample : SVCVS06 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 10 17:44:03 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7101005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Units	Qvalue
25)	2,4-Dichlorophenol	9.29	162	186187	6.04	ug/mL	97
26)	1,2,4-Trichlorobenzene	9.42	180	211279	6.35	ug/mL	99
27)	Naphthalene	9.54	128	691967	6.38	ug/mL	99
28)	4-Chloroaniline	9.68	127	94656	9.25	ug/mL	97
29)	Hexachlorobutadiene	9.74	225	104932	6.50	ug/mL	100
30)	4-Chloro-3-methylphenol	10.41	107	201601	6.21	ug/mL	99
31)	2-Methylnaphthalene	10.65	142	510751	6.35	ug/mL	99
34)	Hexachlorocyclopentadiene	10.89	237	29973	5.32	ug/mL	98
35)	2,4,6-Trichlorophenol	11.10	196	134324	5.99	ug/mL	99
36)	2,4,5-Trichlorophenol	11.16	196	146084	6.25	ug/mL	96
37)	2-Chloronaphthalene	11.43	162	413906	6.23	ug/mL	98
38)	2-Nitroaniline	11.61	65	140962	6.77	ug/mL	96
39)	3-Nitroaniline	12.67	138	10574	6.33	ug/mL#	37
40)	1-Methylnaphthalene	10.80	142	458768	5.55	ug/mL	97
41)	Dimethylphthalate	11.92	163	477071	6.22	ug/mL	99
42)	Acenaphthylene	12.10	152	606402	6.36	ug/mL	99
43)	2,6-Dinitrotoluene	12.01	165	108107	6.23	ug/mL	92
44)	Acenaphthene	12.38	153	417954	6.30	ug/mL	99
45)	2,4-Dinitrophenol	12.46	184	62881	5.54	ug/mL	91
46)	4-Nitrophenol	12.56	109	52136	5.80	ug/mL	95
47)	Dibenzofuran	12.66	168	591257	6.27	ug/mL	96
48)	2,4-Dinitrotoluene	12.66	165	131448	6.22	ug/mL#	82
49)	Fluorene	13.22	166	447340	6.30	ug/mL	98
50)	Diethylphthalate	13.07	149	492867	6.42	ug/mL	97
51)	4-Chlorophenyl phenyl ethe	13.23	204	210095	6.24	ug/mL	94
52)	4-Nitroaniline	13.28	138	56362	6.29	ug/mL	94
56)	4,6-Dinitro-2-methylphenol	13.32	198	78727	5.65	ug/mL	91
57)	Diphenylamine	13.42	169	121101	5.31	ug/mL	98
58)	4-bromophenyl phenyl ether	14.02	248	115149	6.27	ug/mL#	90
59)	Hexachlorobenzene	14.10	284	108584	6.16	ug/mL#	85
60)	Pentachlorophenol	14.43	266	64869	5.05	ug/mL	99
61)	Phenanthrene	14.78	178	690459	6.35	ug/mL	100
62)	Carbazole	15.14	167	400818m	5.82	ug/mL	
63)	Anthracene	14.86	178	654460	6.43	ug/mL	99
64)	Azobenzene	13.49	77	537601	6.54	ug/mL	96
65)	Di-n-Butylphthalate	15.73	149	884952	6.63	ug/mL	99
66)	Fluoranthene	16.71	202	660385	6.37	ug/mL	97
67)	alpha-BHC	14.04	183	82438	6.73	ug/mL	96
68)	beta-BHC	14.39	181	72350	6.77	ug/mL	95
69)	gamma-BHC	14.52	183	70177	6.52	ug/mL	100
70)	delta-BHC	14.91	183	67158	6.84	ug/mL	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7101005\1010703.D Vial: 3
Acq On : 10 Oct 2005 5:16 pm Operator: MRC
Sample : SVCVS06 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 10 17:44:03 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7101005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
71)	Heptachlor	15.55	100	88071	6.74 ug/mL	87
72)	Aldrin	16.05	66	95467	7.00 ug/mL	87
73)	Heptachlor Epoxide	16.56	353	26120	5.89 ug/mL	98
74)	Endosulfan I	17.06	195	22475	6.88 ug/mL#	85
75)	4,4'-DDE	17.26	246	123938	6.37 ug/mL	99
76)	Dieldrin	17.41	79	122387	6.81 ug/mL	94
77)	Endrin	17.70	263	19327	6.39 ug/mL	91
78)	Endosulfan II	0.00	35	0	N.D.	
79)	4,4'-DDD	17.81	235	228023	6.55 ug/mL#	98
80)	Endosulfan Sulfate	18.30	272	27930	6.57 ug/mL#	84
81)	4,4'-DDT	18.29	235	146773	6.25 ug/mL	98
82)	Endrin Aldehyde	0.00	35	0	N.D.	
83)	Endrin Ketone	18.93	317	17304	5.61 ug/mL	99
84)	Methoxychlor	18.94	227	286915	6.35 ug/mL	99
86)	Pyrene	17.07	202	660428	6.36 ug/mL	98
87)	Butylbenzylphthalate	18.17	149	376057	6.52 ug/mL	95
88)	Benzo[a]anthracene	19.02	228	498437	6.11 ug/mL	99
89)	3,3'-Dichlorobenzidine	18.99	252	61142	8.15 ug/mL	96
90)	Chrysene	19.07	228	483896	6.50 ug/mL	99
91)	Bis(2-ethylhexyl)phthalate	19.10	149	527975	6.45 ug/mL#	97
94)	Di-n-octylphthalate	20.17	149	860337	6.68 ug/mL	100
95)	Benzo[b]fluoranthene	20.85	252	427672	6.22 ug/mL	97
96)	Benzo[k]fluoranthene	20.91	252	427857	6.62 ug/mL	98
97)	Benzo[a]pyrene	21.52	252	361945	6.44 ug/mL	97
98)	Indeno(1,2,3-c,d)pyrene	24.45	276	220348m	5.94 ug/mL	
99)	Dibenzo[a,h]anthracene	24.53	278	218413	6.06 ug/mL	95
100)	Benzo[g,h,i]perylene	25.30	276	216928	6.02 ug/mL	96

(#) = qualifier out of range (m) = manual integration

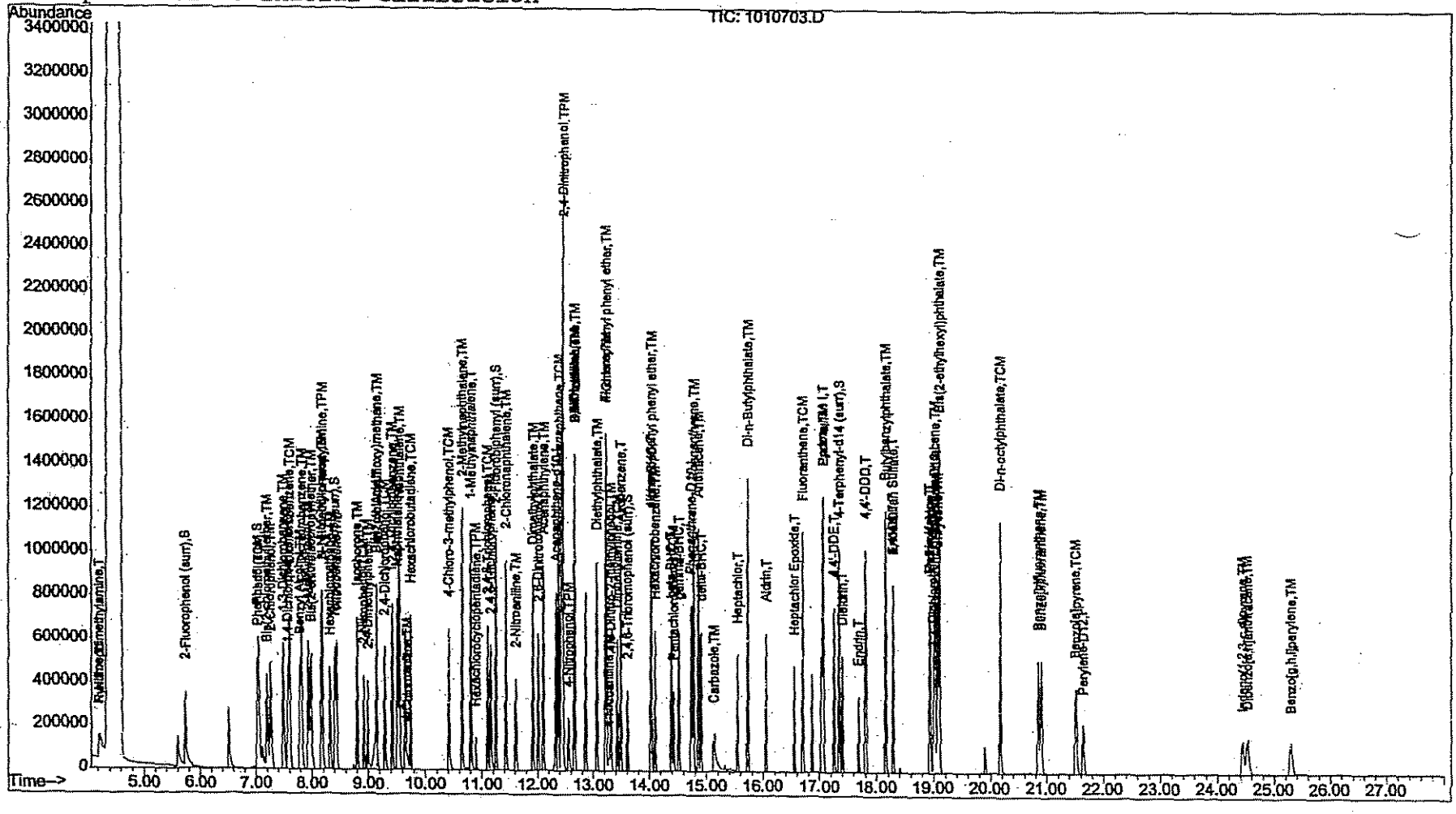
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7101005\1010703.D
Acq On : 10 Oct 2005 5:16 pm
Sample : SVCVS06
Misc :
MS Integration Params: rteint.p
Quant Time: Oct 26 16:23 2005

Vial: 3
Operator: MRC
Inst : MSD7
Multiplr: 1.00

Quant Results File: 8270.RES

Method : C:\MSDCHEM\1\DATA\7101005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Initial Calibration



1010703.D 8270.M Wed Oct 26 16:24:04 2005 ENV

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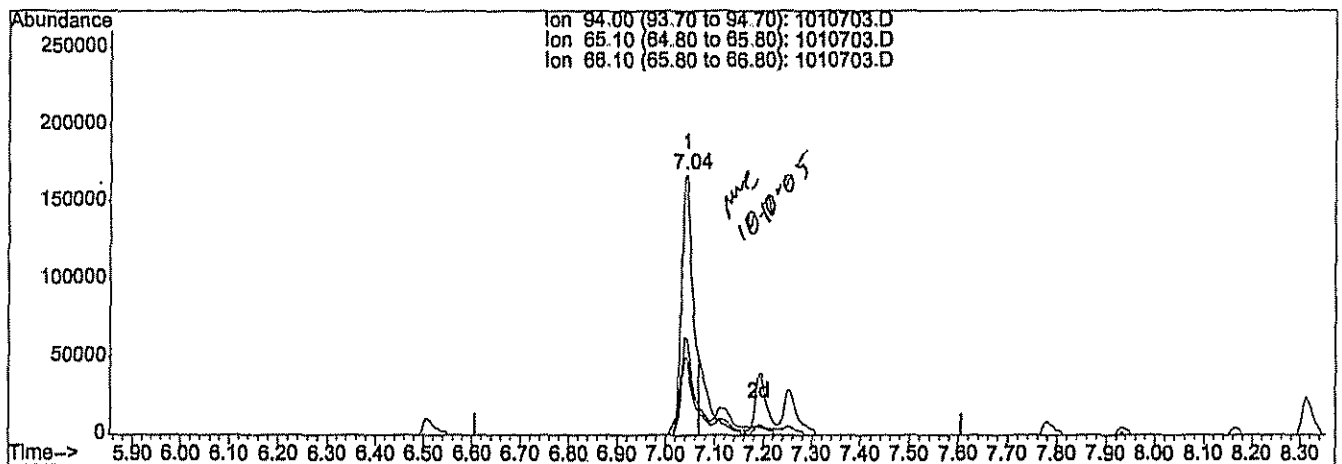
PARADIGM ANALYTICAL LABORATORIES, INC.

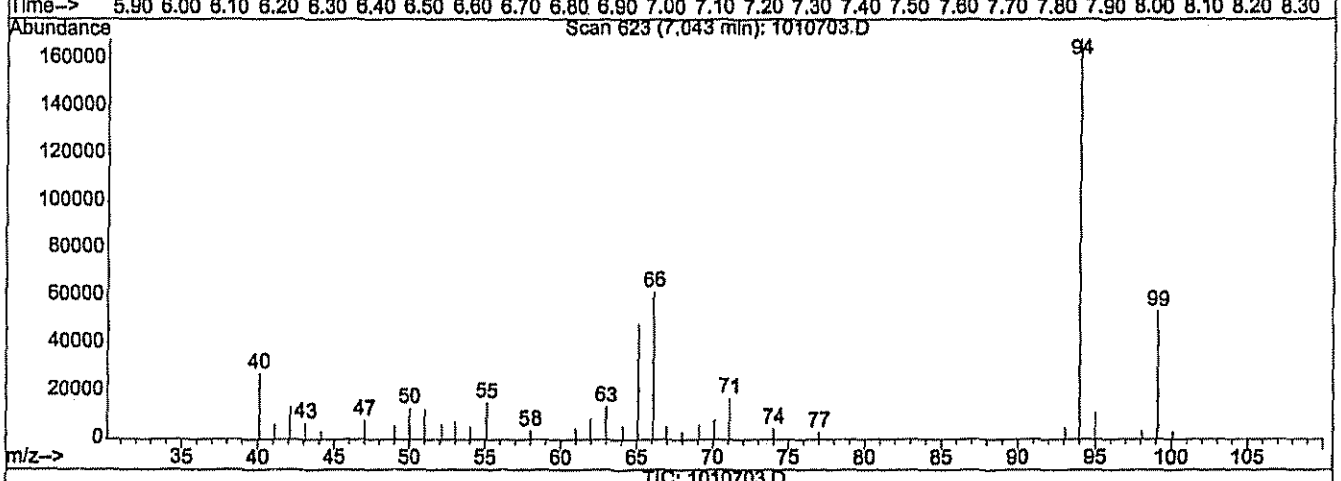
N.C. CERTIFICATION #481

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7101005\1010703.D Vial: 3
Acq On : 10 Oct 2005 5:16 pm Operator: MRC
Sample : SVCVS06 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 26 16:21 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7101005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Multiple Level Calibration





(4) Phenol (TCM)

7.04min 5.20ug/mL m

response 277827

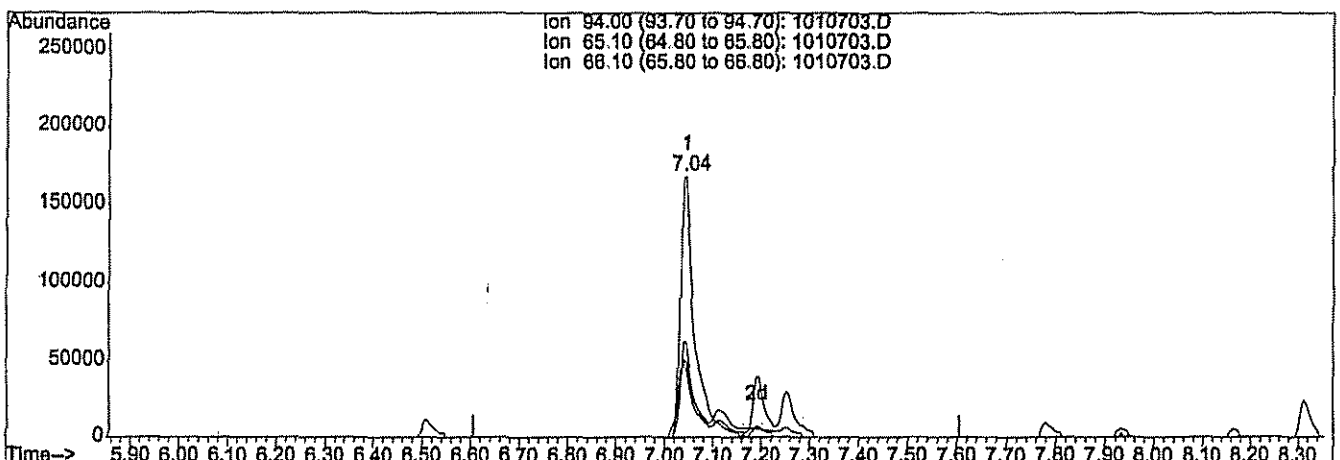
Ion	Exp%	Act%
94.00	100	100
65.10	27.10	29.03
66.10	33.80	36.72
0.00	0.00	0.00

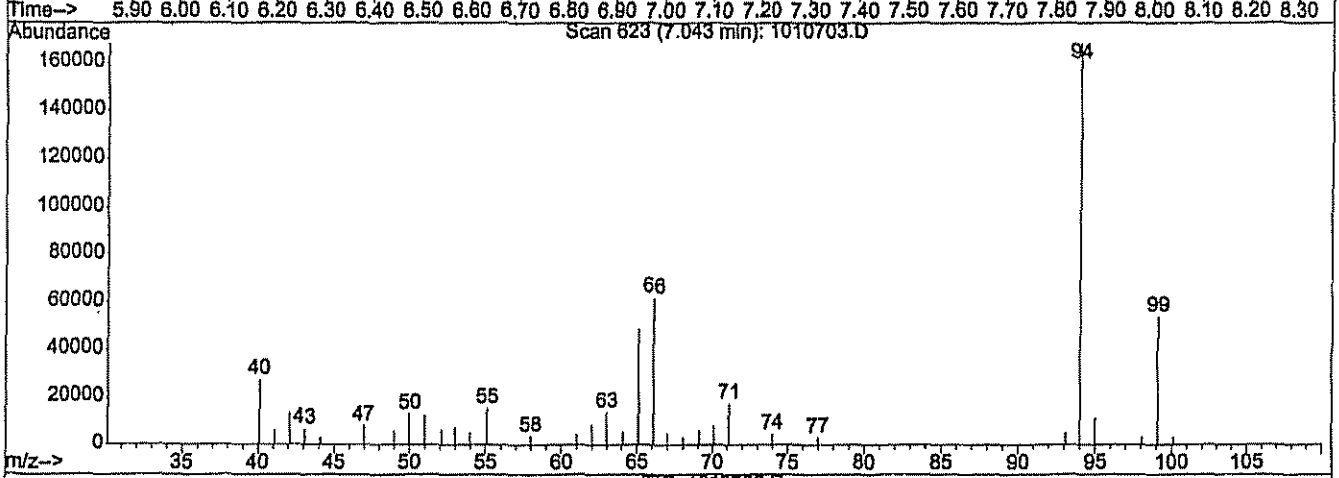
1010703.D 8270.M Wed Oct 26 16:21:59 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7101005\1010703.D Vial: 3
Acq On : 10 Oct 2005 5:16 pm Operator: MRC
Sample : SVCVS06 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 12:33 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7101005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Multiple Level Calibration





(4) Phenol (TCM)

7.04min 6.52ug/mL

response 348026

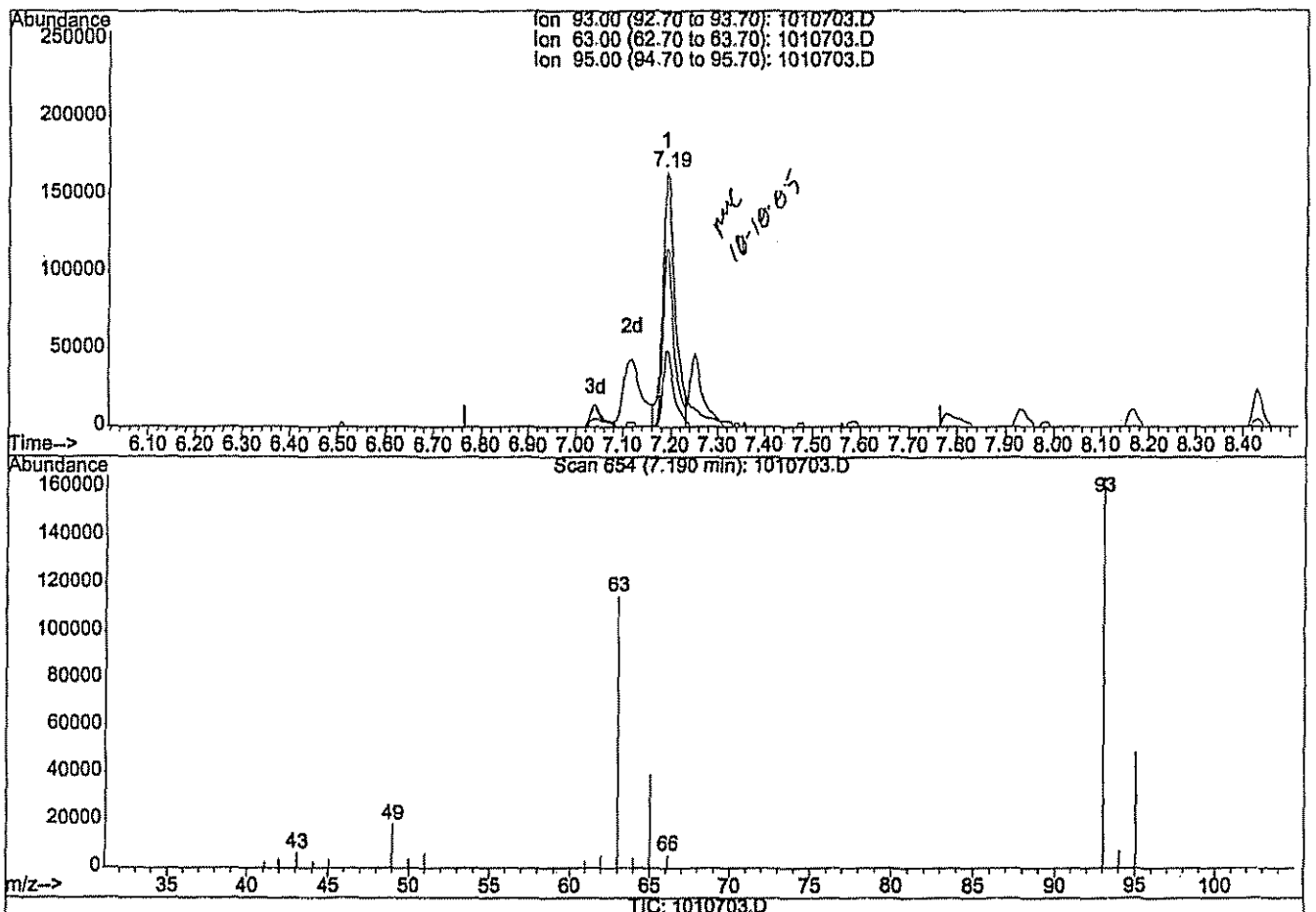
Ion	Exp%	Act%
94.00	100	100
65.10	27.10	29.03
66.10	33.80	34.50
0.00	0.00	0.00

1010703.D 8270.M Wed Oct 26 16:21:52 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7101005\1010703.D Vial: 3
Acq On : 10 Oct 2005 5:16 pm Operator: MRC
Sample : SVCVS06 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 26 16:22 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7101005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Multiple Level Calibration



(5) Bis(2-chloroethyl)ether (TM)

7.19min 6.86ug/mL m

response 299980

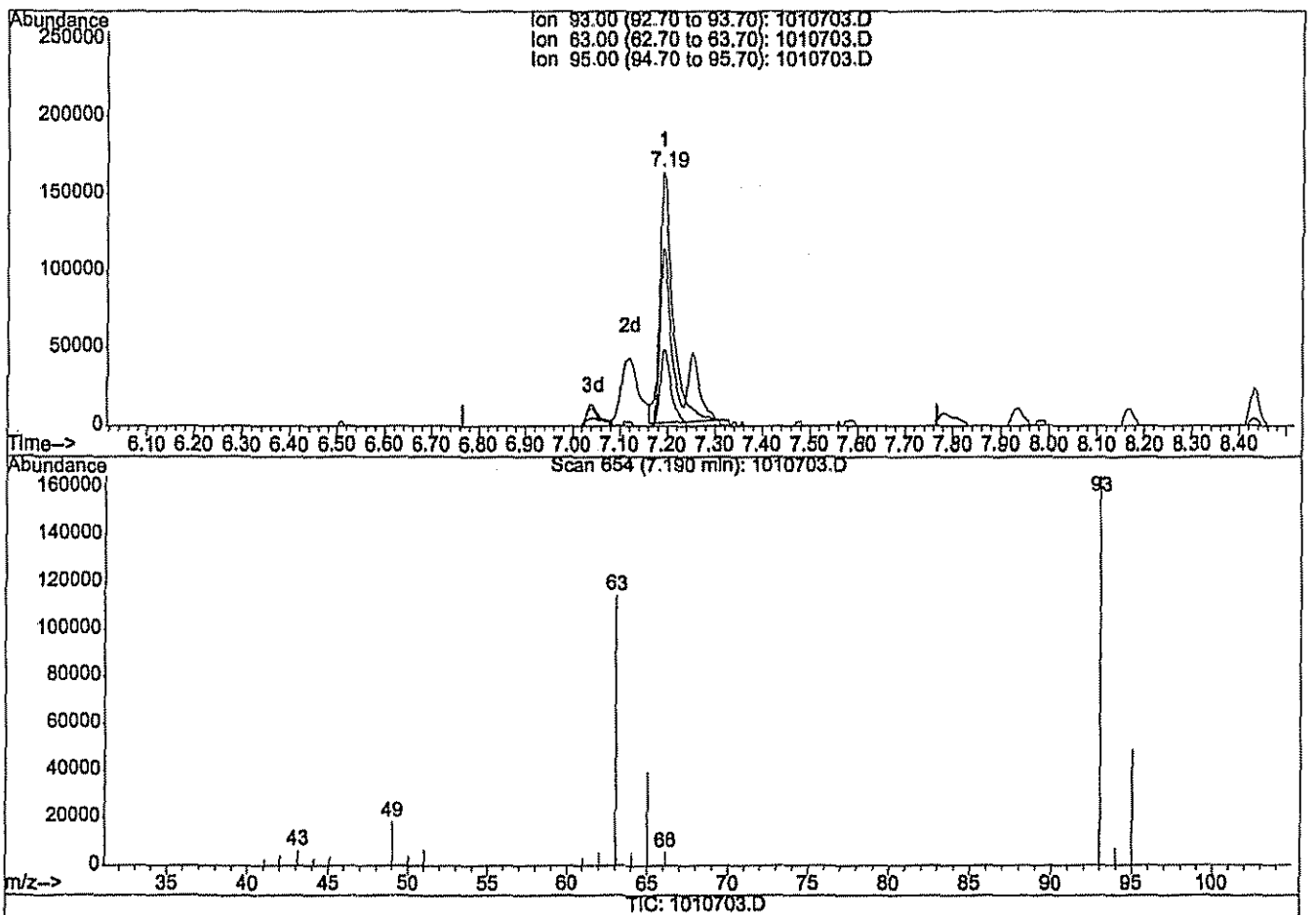
Ion	Exp%	Act%
93.00	100	100
63.00	70.70	69.74
95.00	31.80	29.73
0.00	0.00	0.00

1010703.D 8270.M Wed Oct 26 16:22:10 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7101005\1010703.D Vial: 3
Acq On : 10 Oct 2005 5:16 pm Operator: MRC
Sample : SVCVS06 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 26 16:21 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7101005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Multiple Level Calibration



(5) Bis(2-chloroethyl)ether (TM)

7.19min 7.12ug/mL

response 311372

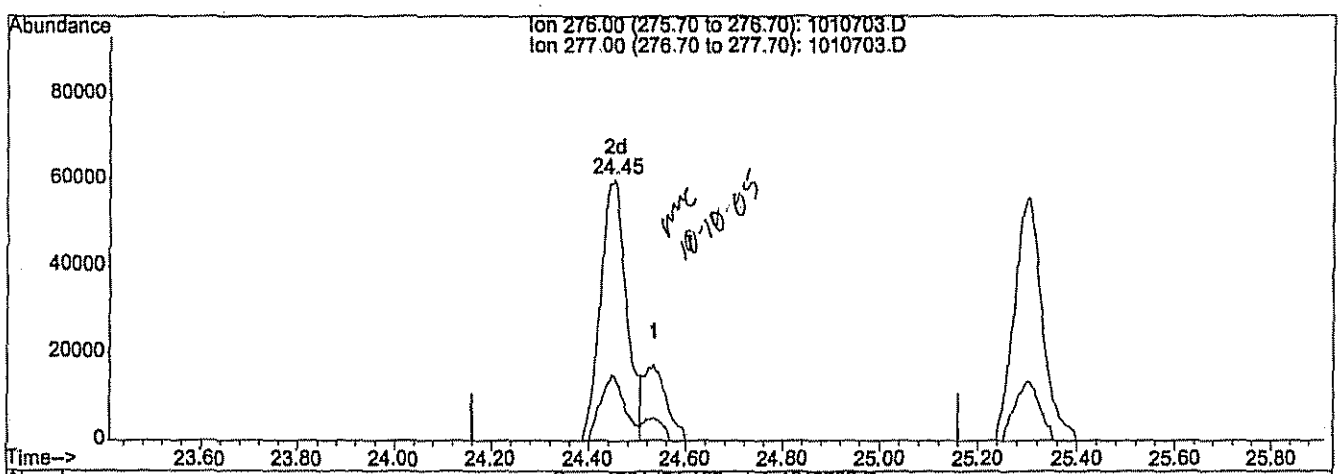
Ion	Exp%	Act%
93.00	100	100
63.00	70.70	71.32
95.00	31.80	30.41
0.00	0.00	0.00

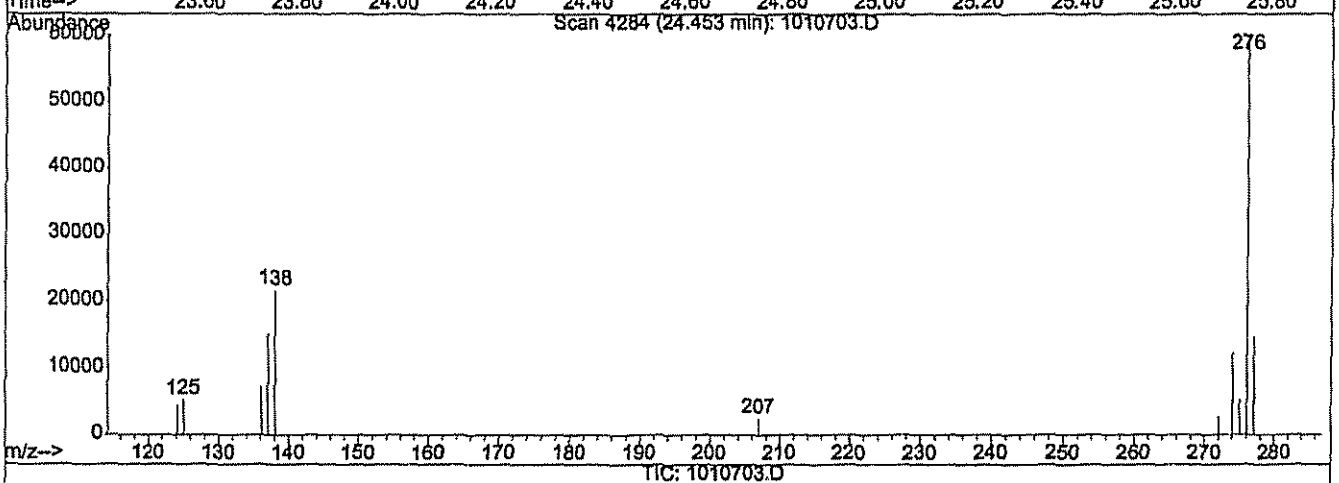
1010703.D 8270.M Wed Oct 26 16:22:03 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7101005\1010703.D Vial: 3
Acq On : 10 Oct 2005 5:16 pm Operator: MRC
Sample : SVCVS06 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 26 16:23 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7101005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Multiple Level Calibration





(98) Indeno(1,2,3-c,d)pyrene (TM)

24.45min 5.94ug/mL m

response 220348

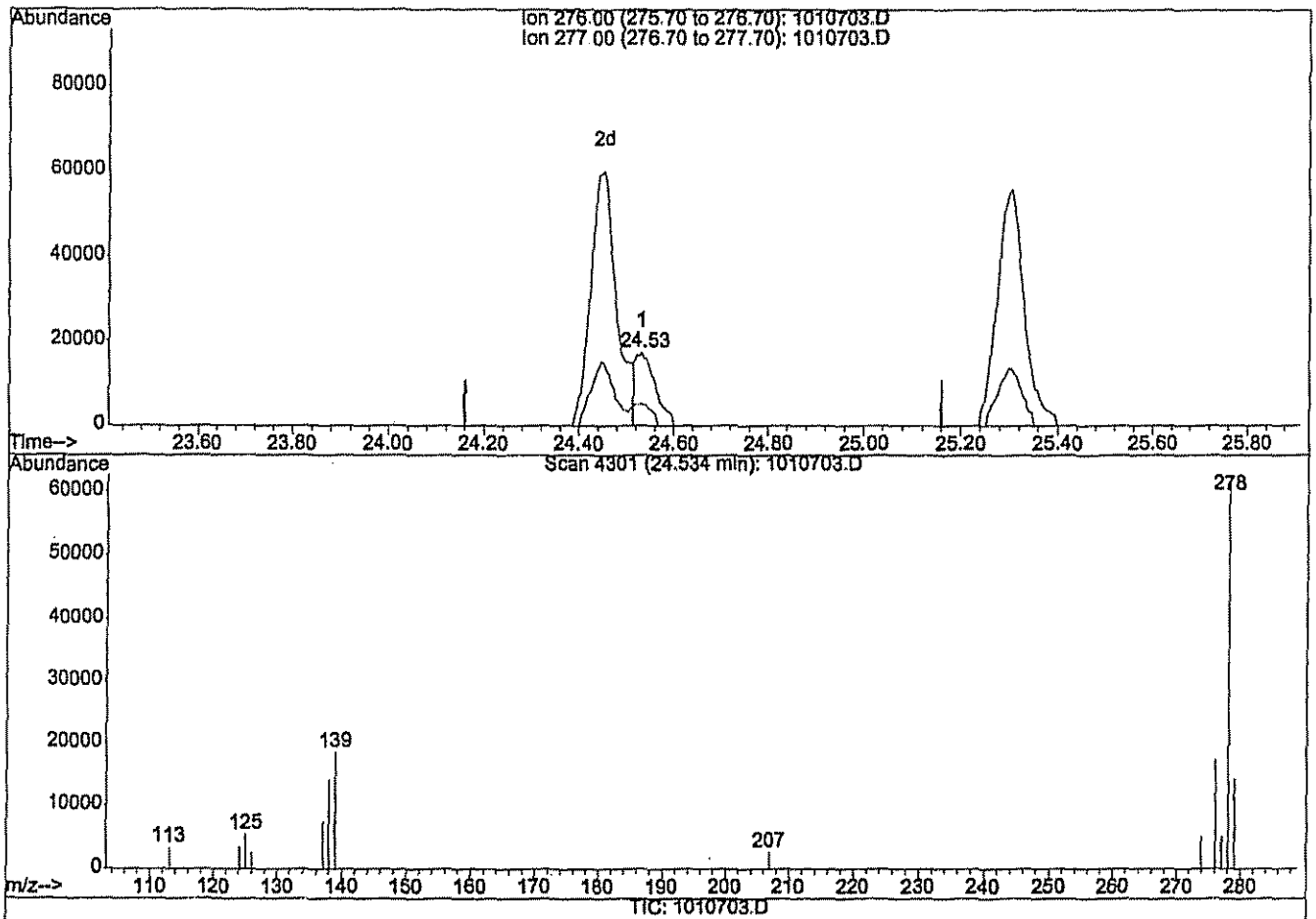
Ion	Exp%	Act%
276.00	100	100
277.00	23.70	24.34
0.00	0.00	0.00
0.00	0.00	0.00

1010703.D 8270.M Wed Oct 26 16:23:30 2005 ENV

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\7101005\1010703.D Vial: 3
Acq On : 10 Oct 2005 5:16 pm Operator: MRC
Sample : SVCVS06 Inst : MSD7
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 26 16:22 2005 Quant Results File: temp.res

Method : C:\MSDCHEM\1\DATA\7101005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Multiple Level Calibration



TIC: 1010703.D

(98) Indeno(1,2,3-c,d)pyrene (TM)

24.53min 1.34ug/mL

response 49644

Ion	Exp%	Act%
276.00	100	100
277.00	23.70	30.05#
0.00	0.00	0.00
0.00	0.00	0.00

1010703.D 8270.M Wed Oct 26 16:23:23 2005 *ENV*

8270-625 QC, Blanks Raw Data

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100705\1007714.D Vial: 14
Acq On : 7 Oct 2005 6:39 pm Operator: MRC
Sample : PB3780 x1 Inst : MSD7
Misc : 8270 [3520-3780] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 07 19:08:00 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7100705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Initial Calibration
DataAcq Meth : 8270

rc 10-10-05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.60	152	101128	4.00	ug/mL	-0.03
18) Naphthalene-D8	9.55	136	403873	4.00	ug/mL	-0.04
33) Acenaphthene-d10	12.37	164	186569	4.00	ug/mL	-0.04
55) Phenanthrene-D10	14.79	188	307219	4.00	ug/mL	-0.04
85) Chrysene-D12	19.08	240	162721	4.00	ug/mL	-0.04
93) Perylene-D12	21.72	264	78691	4.00	ug/mL	-0.06
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.76	112	181792	6.25	ug/mL	-0.03
Spiked Amount 10.000			Recovery	=	62.50%	
17) Phenol-d6 (surr)	7.06	99	262105	6.52	ug/mL	-0.02
Spiked Amount 10.000			Recovery	=	65.20%	
32) Nitrobenzene-d5 (surr)	8.45	128	97058	6.39	ug/mL	-0.04
Spiked Amount 10.000			Recovery	=	63.90%	
53) 2-Fluorobiphenyl (surr)	11.29	172	391082	7.03	ug/mL	-0.04
Spiked Amount 10.000			Recovery	=	70.30%	
54) 2,4,6-Tribromophenol (surr	13.65	330	35404	6.08	ug/mL	-0.03
Spiked Amount 10.000			Recovery	=	60.80%	
92) 4-Terphenyl-d14 (surr)	17.40	244	381503	9.01	ug/mL	-0.04
Spiked Amount 10.000			Recovery	=	90.10%	

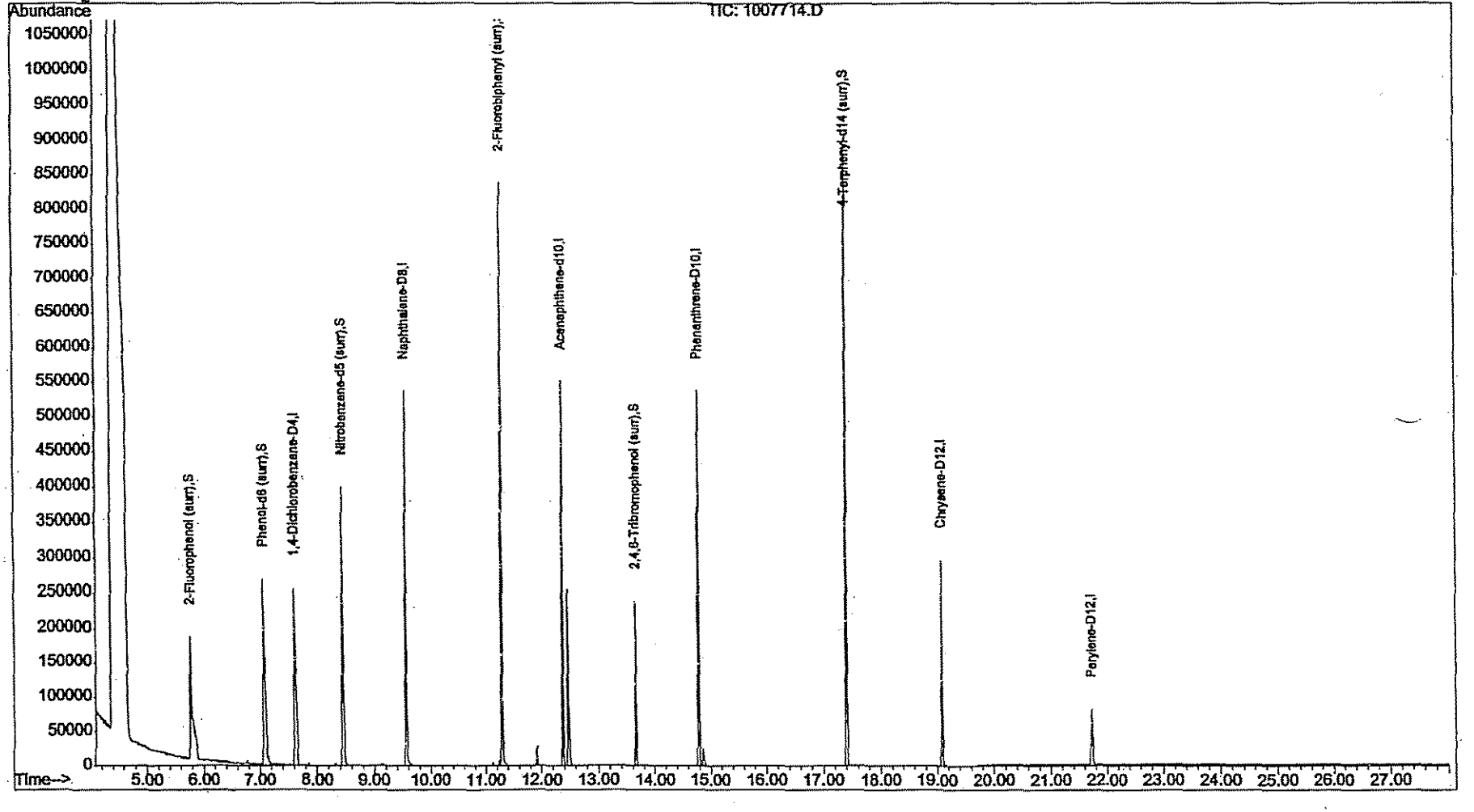
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
1007714.D 8270.M Mon Oct 10 10:50:54 2005 ENV Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100705\1007714.D Vial: 14
Acq On : 7 Oct 2005 6:39 pm Operator: MRC
Sample : PB3780 x1 Inst : MSD7
Misc : 8270 [3520-3780] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 10 9:53 2005 Quant Results File: 8270.RES

Method : C:\MSDCHEM\1\DATA\7100705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Initial Calibration



N.C CERTIFICATION #481
PARADIGM ANALYTICAL LABORATORIES, INC.

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100705\1007715.D Vial: 15
Acq On : 7 Oct 2005 7:17 pm Operator: MRC
Sample : LCS3780 x1 Inst : MSD7
Misc : 8270 [3520-3780] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 07 19:45:40 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7100705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Initial Calibration
DataAcq Meth : 8270

mc 10-10-05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.60	152	107436	4.00	ug/mL	-0.03
18) Naphthalene-D8	9.56	136	433085	4.00	ug/mL	-0.03
33) Acenaphthene-d10	12.37	164	209315	4.00	ug/mL	-0.03
55) Phenanthrene-D10	14.78	188	338764	4.00	ug/mL	-0.04
85) Chrysene-D12	19.08	240	184836	4.00	ug/mL	-0.04
93) Perylene-D12	21.72	264	101857	4.00	ug/mL	-0.06
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.77	112	245586	7.95	ug/mL	-0.02
Spiked Amount 10.000			Recovery	=	79.50%	
17) Phenol-d6 (surr)	7.07	99	350348	8.20	ug/mL	-0.02
Spiked Amount 10.000			Recovery	=	82.00%	
32) Nitrobenzene-d5 (surr)	8.45	128	136538	8.38	ug/mL	-0.03
Spiked Amount 10.000			Recovery	=	83.80%	
53) 2-Fluorobiphenyl (surr)	11.29	172	510272	8.18	ug/mL	-0.03
Spiked Amount 10.000			Recovery	=	81.80%	
54) 2,4,6-Tribromophenol (surr	13.66	330	49796	7.62	ug/mL	-0.03
Spiked Amount 10.000			Recovery	=	76.20%	
92) 4-Terphenyl-d14 (surr)	17.40	244	465920	9.69	ug/mL	-0.03
Spiked Amount 10.000			Recovery	=	96.90%	

Target Compounds						Qvalue
3) N-Nitrosodimethylamine	4.29	74	58872m	5.66	ug/mL	
4) Phenol	7.09	94	380723m	8.47	ug/mL	
5) Bis(2-chloroethyl)ether	7.23	93	303236m	8.24	ug/mL	
6) 2-Chlorophenol	7.30	128	304972	8.61	ug/mL	99
7) Benzyl Alcohol	7.82	108	178656	7.97	ug/mL	94
8) 1,3-Dichlorobenzene	7.52	146	283744	7.85	ug/mL	99
9) 1,4-Dichlorobenzene	7.63	146	296902	8.06	ug/mL	98
10) 1,2-Dichlorobenzene	7.86	146	273702	8.30	ug/mL	99
11) 2-Methylphenol	7.98	107	235995	9.04	ug/mL	95
12) 3-, 4-Methylphenol	8.22	107	577660	15.27	ug/mL#	68
13) Bis(2-chloroisopropyl)ethe	8.03	45	533649	8.93	ug/mL	99
14) N-Nitrosodi-n-propylamine	8.23	70	168453	8.13	ug/mL	93
15) Hexachloroethane	8.36	117	84093	6.46	ug/mL	97
19) Nitrobenzene	8.48	77	332548	9.62	ug/mL	98
20) Isophorone	8.85	82	586843	10.31	ug/mL	97
21) 2-Nitrophenol	8.96	139	156391	7.90	ug/mL	93
22) 2,4-Dimethylphenol	9.03	122	197088	10.77	ug/mL	97
23) Benzoic Acid	9.18	122	155050	7.47	ug/mL#	1
24) Bis(2-chloroethoxy)methane	9.19	93	359138	9.31	ug/mL	100
25) 2,4-Dichlorophenol	9.34	162	228398	8.93	ug/mL	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100705\1007715.D Vial: 15
Acq On : 7 Oct 2005 7:17 pm Operator: MRC
Sample : LCS3780 x1 Inst : MSD7
Misc : 8270 [3520-3780] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 07 19:45:40 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7100705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26) 1,2,4-Trichlorobenzene	9.47	180	243726	8.82	ug/mL	97
27) Naphthalene	9.59	128	851310	9.45	ug/mL	99
28) 4-Chloroaniline	9.69	127	230056	21.58	ug/mL	98
29) Hexachlorobutadiene	9.79	225	118683	8.85	ug/mL	99
30) 4-Chloro-3-methylphenol	10.46	107	250854	9.31	ug/mL	98
31) 2-Methylnaphthalene	10.70	142	584648	8.76	ug/mL	100
34) Hexachlorocyclopentadiene	10.94	237	6444	1.40	ug/mL#	92
35) 2,4,6-Trichlorophenol	11.15	196	161511	8.83	ug/mL	99
36) 2,4,5-Trichlorophenol	11.20	196	170344	8.95	ug/mL	98
37) 2-Chloronaphthalene	11.48	162	517953	9.56	ug/mL	98
38) 2-Nitroaniline	11.65	65	170480	10.05	ug/mL	95
39) 3-Nitroaniline	12.71	138	11620	8.54	ug/mL#	87
40) 1-Methylnaphthalene	10.85	142	563763	8.36	ug/mL	97
41) Dimethylphthalate	11.96	163	591831	9.46	ug/mL	99
42) Acenaphthylene	12.15	152	830590	10.69	ug/mL	99
43) 2,6-Dinitrotoluene	12.06	165	130316	9.22	ug/mL	92
44) Acenaphthene	12.43	153	518929	9.61	ug/mL	98
45) 2,4-Dinitrophenol	12.50	184	26952	2.91	ug/mL#	84
46) 4-Nitrophenol	12.61	109	76976	10.51	ug/mL	98
47) Dibenzofuran	12.71	168	673093	8.76	ug/mL	93
48) 2,4-Dinitrotoluene	12.71	165	156407	9.09	ug/mL#	78
49) Fluorene	13.27	166	564564	9.76	ug/mL	100
50) Diethylphthalate	13.11	149	628614	10.04	ug/mL	97
51) 4-Chlorophenyl phenyl ethe	13.28	204	259968	9.47	ug/mL	97
52) 4-Nitroaniline	13.32	138	119349	16.34	ug/mL	98
56) 4,6-Dinitro-2-methylphenol	13.36	198	40202	3.53	ug/mL	91
57) Diphenylamine	13.47	169	450925	28.36	ug/mL	94
58) 4-bromophenyl phenyl ether	14.07	248	141136	9.42	ug/mL#	89
59) Hexachlorobenzene	14.15	284	135260	9.40	ug/mL#	88
60) Pentachlorophenol	14.48	266	73658	7.03	ug/mL	98
61) Phenanthrene	14.83	178	849999	9.57	ug/mL	100
63) Anthracene	14.91	178	756564	9.11	ug/mL	100
64) Azobenzene	13.53	77	647253	9.65	ug/mL	96
65) Di-n-Butylphthalate	15.78	149	1085373	9.96	ug/mL	99
66) Fluoranthene	16.76	202	776692	9.19	ug/mL	98
86) Pyrene	17.12	202	784351	10.90	ug/mL	99
87) Butylbenzylphthalate	18.21	149	423890	10.59	ug/mL	94
88) Benzo[a]anthracene	19.06	228	541879	9.57	ug/mL	99
89) 3,3'-Dichlorobenzidine	19.04	252	129360	20.32	ug/mL	98
90) Chrysene	19.13	228	521561	10.10	ug/mL	99
91) Bis(2-ethylhexyl)phthalate	19.15	149	574557	10.12	ug/mL#	98

(#) = qualifier out of range (m) = manual integration
1007715.D 8270.M Mon Oct 10 10:50:57 2005 ENV Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100705\1007715.D Vial: 15
Acq On : 7 Oct 2005 7:17 pm Operator: MRC
Sample : LCS3780 x1 Inst : MSD7
Misc : 8270 [3520-3780] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 07 19:45:40 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7100705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
94)	Di-n-octylphthalate	20.23	149	846419	12.21	ug/mL	100
95)	Benzo[b]fluoranthene	20.92	252	389957	10.55	ug/mL	98
96)	Benzo[k]fluoranthene	20.98	252	405439	11.66	ug/mL	99
97)	Benzo[a]pyrene	21.60	252	305638	10.11	ug/mL	98
98)	Indeno(1,2,3-c,d)pyrene	24.58	276	175536	8.80	ug/mL	97
99)	Dibenzo[a,h]anthracene	24.66	278	187706	9.68	ug/mL	96
100)	Benzo[g,h,i]perylene	25.45	276	172284	8.88	ug/mL	98

(#) = qualifier out of range (m) = manual integration
1007715.D 8270.M Mon Oct 10 10:50:58 2005 ENV Page 3

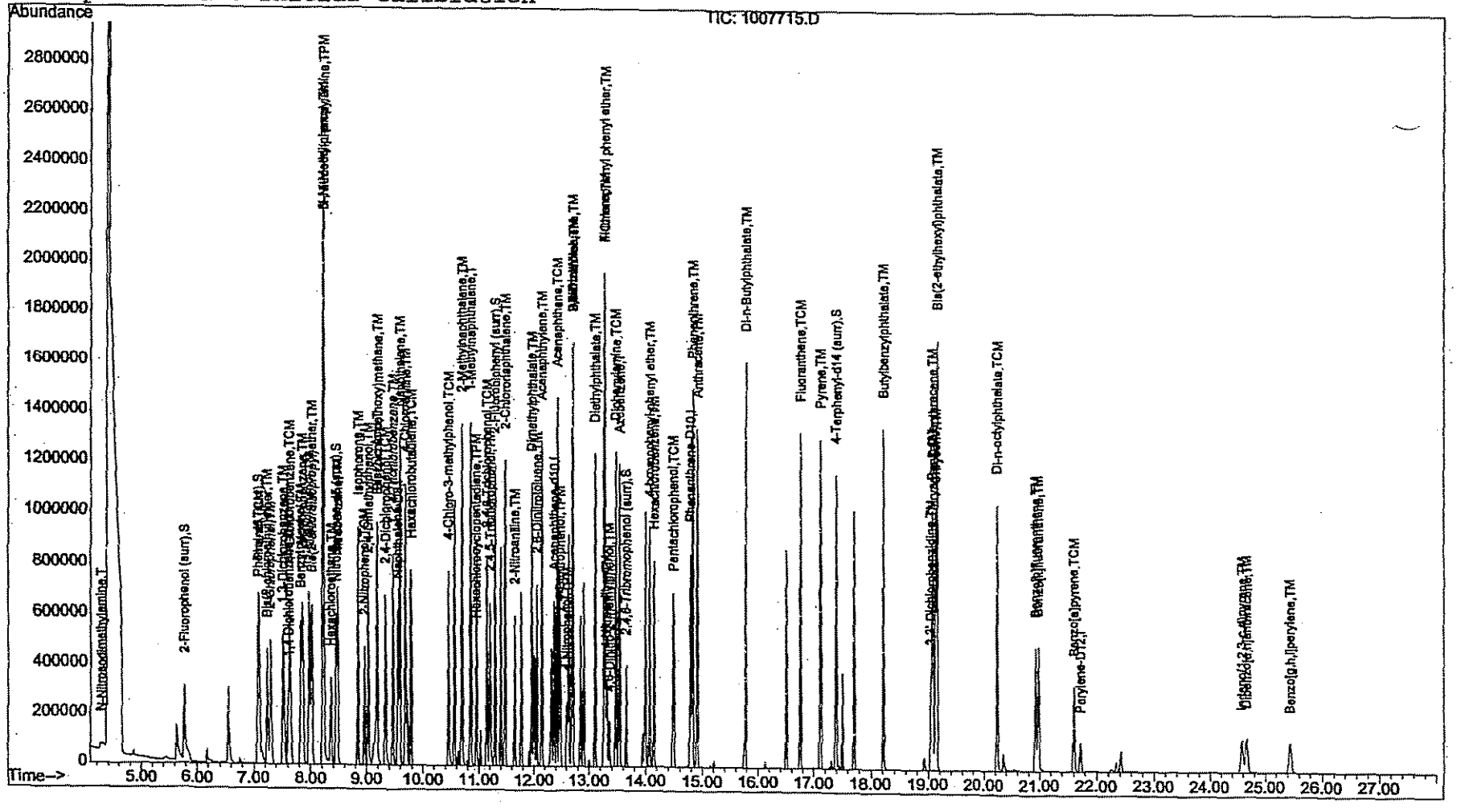
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100705\1007715.D
Acq On : 7 Oct 2005 7:17 pm
Sample : LCS3780 x1
Misc : 8270 [3520-3780]
MS Integration Params: rteint.p
Quant Time: Oct 10 9:54 2005

Vial: 15
Operator: MRC
Inst : MSD7
Multiplr: 1.00

Quant Results File: 8270.RES

Method : C:\MSDCHEM\1\DATA\7100705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Initial Calibration



1007715.D 8270.M Mon Oct 10 10:51:00 2005 ENV

PARADIGM ANALYTICAL LABORATORIES, INC.

N.C. CERTIFICATION #481

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100705\1007716.D Vial: 16
Acq On : 7 Oct 2005 7:55 pm Operator: MRC
Sample : G649-1-10 MS x1 Inst : MSD7
Misc : 8270 [3520-3780] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 07 20:23:28 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7100705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Initial Calibration
DataAcq Meth : 8270

pwc 10/10/05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.60	152	104705	4.00	ug/mL	-0.03
18) Naphthalene-D8	9.56	136	430666	4.00	ug/mL	-0.03
33) Acenaphthene-d10	12.37	164	208359	4.00	ug/mL	-0.03
55) Phenanthrene-D10	14.79	188	337405	4.00	ug/mL	-0.03
85) Chrysene-D12	19.08	240	196727	4.00	ug/mL	-0.04
93) Perylene-D12	21.72	264	103861	4.00	ug/mL	-0.06
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.77	112	255135	8.48	ug/mL	-0.02
Spiked Amount 10.000			Recovery	=	84.80%	
17) Phenol-d6 (surr)	7.07	99	367221	8.82	ug/mL	-0.02
Spiked Amount 10.000			Recovery	=	88.20%	
32) Nitrobenzene-d5 (surr)	8.45	128	143387	8.85	ug/mL	-0.03
Spiked Amount 10.000			Recovery	=	88.50%	
53) 2-Fluorobiphenyl (surr)	11.29	172	549539	8.85	ug/mL	-0.03
Spiked Amount 10.000			Recovery	=	88.50%	
54) 2,4,6-Tribromophenol (surr	13.66	330	53549	8.23	ug/mL	-0.03
Spiked Amount 10.000			Recovery	=	82.30%	
92) 4-Terphenyl-d14 (surr)	17.40	244	514821	10.06	ug/mL	-0.03
Spiked Amount 10.000			Recovery	=	100.60%	

Target Compounds						Qvalue
3) N-Nitrosodimethylamine	4.30	74	56027m	5.58	ug/mL	
4) Phenol	7.09	94	374859m	8.56	ug/mL	
5) Bis(2-chloroethyl)ether	7.24	93	309215m	8.62	ug/mL	
6) 2-Chlorophenol	7.30	128	303230	8.79	ug/mL	99
7) Benzyl Alcohol	7.82	108	183084	8.38	ug/mL	95
8) 1,3-Dichlorobenzene	7.52	146	252928	7.18	ug/mL	98
9) 1,4-Dichlorobenzene	7.63	146	267662	7.46	ug/mL	99
10) 1,2-Dichlorobenzene	7.86	146	254621	7.92	ug/mL	99
11) 2-Methylphenol	7.98	107	239974	9.43	ug/mL	94
12) 3-, 4-Methylphenol	8.22	107	590672	16.02	ug/mL#	67
13) Bis(2-chloroisopropyl)ethe	8.03	45	524632	9.01	ug/mL	99
14) N-Nitrosodi-n-propylamine	8.23	70	171990	8.52	ug/mL	95
15) Hexachloroethane	8.36	117	78502	6.19	ug/mL	92
19) Nitrobenzene	8.48	77	335687	9.76	ug/mL	98
20) Isophorone	8.85	82	584356	10.33	ug/mL	98
21) 2-Nitrophenol	8.96	139	159960	8.13	ug/mL	96
22) 2,4-Dimethylphenol	9.03	122	254663	14.00	ug/mL	98
23) Benzoic Acid	9.18	122	161907	7.85	ug/mL#	1
24) Bis(2-chloroethoxy)methane	9.19	93	356256	9.29	ug/mL	99
25) 2,4-Dichlorophenol	9.34	162	232179	9.13	ug/mL	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100705\1007716.D Vial: 16
Acq On : 7 Oct 2005 7:55 pm Operator: MRC
Sample : G649-1-10 MS x1 Inst : MSD7
Misc : 8270 [3520-3780] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 07 20:23:28 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7100705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26)	1,2,4-Trichlorobenzene	9.47	180	239496	8.72	ug/mL	98
27)	Naphthalene	9.59	128	843392	9.42	ug/mL	100
28)	4-Chloroaniline	9.69	127	238600	22.30	ug/mL	96
29)	Hexachlorobutadiene	9.79	225	115889	8.69	ug/mL	99
30)	4-Chloro-3-methylphenol	10.46	107	257139	9.60	ug/mL	100
31)	2-Methylnaphthalene	10.70	142	584706	8.81	ug/mL	97
34)	Hexachlorocyclopentadiene	10.94	237	12286	2.69	ug/mL#	94
35)	2,4,6-Trichlorophenol	11.15	196	165277	9.08	ug/mL	100
36)	2,4,5-Trichlorophenol	11.20	196	175166	9.24	ug/mL	95
37)	2-Chloronaphthalene	11.48	162	520871	9.66	ug/mL	99
38)	2-Nitroaniline	11.65	65	172918	10.24	ug/mL	96
39)	3-Nitroaniline	12.71	138	11525	8.51	ug/mL	94
40)	1-Methylnaphthalene	10.85	142	566635	8.44	ug/mL	96
41)	Dimethylphthalate	11.97	163	600753	9.65	ug/mL	100
42)	Acenaphthylene	12.15	152	857071	11.08	ug/mL	99
43)	2,6-Dinitrotoluene	12.06	165	132439	9.41	ug/mL	94
44)	Acenaphthene	12.43	153	525784	9.78	ug/mL	99
45)	2,4-Dinitrophenol	12.50	184	30852	3.35	ug/mL#	81
46)	4-Nitrophenol	12.61	109	84081	11.54	ug/mL	99
47)	Dibenzofuran	12.71	168	685879	8.97	ug/mL	95
48)	2,4-Dinitrotoluene	12.71	165	162863	9.51	ug/mL#	81
49)	Fluorene	13.27	166	577195	10.03	ug/mL	99
50)	Diethylphthalate	13.11	149	633288	10.16	ug/mL	98
51)	4-Chlorophenyl phenyl ethe	13.28	204	262757	9.62	ug/mL	97
52)	4-Nitroaniline	13.31	138	121493	16.71	ug/mL	92
56)	4,6-Dinitro-2-methylphenol	13.36	198	47265	4.17	ug/mL	92
57)	Diphenylamine	13.47	169	454198	28.69	ug/mL	94
58)	4-bromophenyl phenyl ether	14.07	248	142051	9.52	ug/mL#	86
59)	Hexachlorobenzene	14.15	284	134932	9.41	ug/mL#	85
60)	Pentachlorophenol	14.48	266	79059	7.58	ug/mL	98
61)	Phenanthrene	14.83	178	869545	9.83	ug/mL	99
63)	Anthracene	14.91	178	806723	9.75	ug/mL	100
64)	Azobenzene	13.53	77	660338	9.89	ug/mL	96
65)	Di-n-Butylphthalate	15.78	149	1107017	10.20	ug/mL	99
66)	Fluoranthene	16.76	202	819962	9.74	ug/mL	98
86)	Pyrene	17.12	202	840515	10.97	ug/mL	98
87)	Butylbenzylphthalate	18.21	149	451457	10.60	ug/mL	95
88)	Benzo[a]anthracene	19.07	228	598232	9.93	ug/mL	99
89)	3,3'-Dichlorobenzidine	19.04	252	134376	19.88	ug/mL	98
90)	Chrysene	19.13	228	571531	10.40	ug/mL	99
91)	Bis(2-ethylhexyl)phthalate	19.15	149	611871	10.13	ug/mL#	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100705\1007716.D Vial: 16
Acq On : 7 Oct 2005 7:55 pm Operator: MRC
Sample : G649-1-10 MS x1 Inst : MSD7
Misc : 8270 [3520-3780] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 07 20:23:28 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7100705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
94)	Di-n-octylphthalate	20.23	149	913870	12.93	ug/mL	100
95)	Benzo[b]fluoranthene	20.92	252	411454	10.91	ug/mL	96
96)	Benzo[k]fluoranthene	20.98	252	427555	12.06	ug/mL	98
97)	Benzo[a]pyrene	21.60	252	330785	10.73	ug/mL	97
98)	Indeno(1,2,3-c,d)pyrene	24.58	276	176516	8.68	ug/mL	97
99)	Dibenzo[a,h]anthracene	24.66	278	190136	9.62	ug/mL	96
100)	Benzo[g,h,i]perylene	25.44	276	170743	8.63	ug/mL	93

(#) = qualifier out of range (m) = manual integration

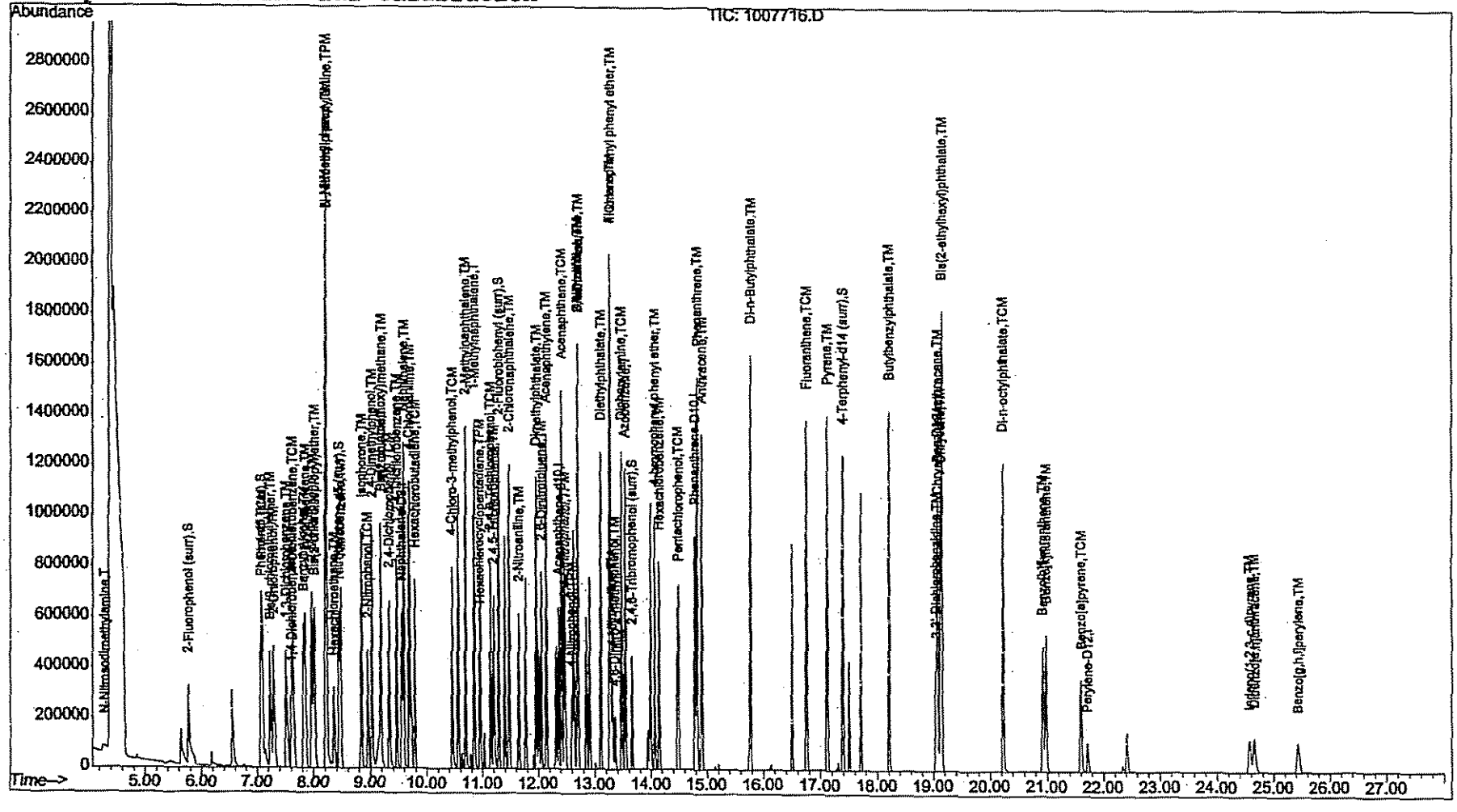
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100705\1007716.D
Acq On : 7 Oct 2005 7:55 pm
Sample : G649-1-10 MS x1
Misc : 8270 [3520-3780]
MS Integration Params: rteint.p
Quant Time: Oct 10 9:55 2005

Vial: 16
Operator: MRC
Inst : MSD7
Multiplr: 1.00

Quant Results File: 8270.RES

Method : C:\MSDCHEM\1\DATA\7100705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Initial Calibration



1007716.D 8270.M Mon Oct 10 10:51:04 2005 ENV

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PARADIGM ANALYTICAL LABORATORIES, INC.

N.C. CERTIFICATION #481

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100705\1007717.D Vial: 17
Acq On : 7 Oct 2005 8:33 pm Operator: MRC
Sample : G649-1-1P MSD x1 Inst : MSD7
Misc : 8270 [3520-3780] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 07 21:01:39 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7100705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Initial Calibration
DataAcq Meth : 8270

vmc 10-18-05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.60	152	113224	4.00	ug/mL	-0.03
18) Naphthalene-D8	9.56	136	454045	4.00	ug/mL	-0.03
33) Acenaphthene-d10	12.37	164	217862	4.00	ug/mL	-0.03
55) Phenanthrene-D10	14.79	188	349180	4.00	ug/mL	-0.03
85) Chrysene-D12	19.08	240	197719	4.00	ug/mL	-0.04
93) Perylene-D12	21.72	264	94379	4.00	ug/mL	-0.06
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.77	112	273163	8.39	ug/mL	-0.02
Spiked Amount 10.000			Recovery = 83.90%			
17) Phenol-d6 (surr)	7.07	99	390026	8.66	ug/mL	-0.02
Spiked Amount 10.000			Recovery = 86.60%			
32) Nitrobenzene-d5 (surr)	8.45	128	150088	8.79	ug/mL	-0.03
Spiked Amount 10.000			Recovery = 87.90%			
53) 2-Fluorobiphenyl (surr)	11.29	172	564601	8.70	ug/mL	-0.03
Spiked Amount 10.000			Recovery = 87.00%			
54) 2,4,6-Tribromophenol (surr	13.66	330	56071	8.24	ug/mL	-0.03
Spiked Amount 10.000			Recovery = 82.40%			
92) 4-Terphenyl-d14 (surr)	17.40	244	540046	10.50	ug/mL	-0.03
Spiked Amount 10.000			Recovery = 105.00%			

Target Compounds						Qvalue
3) N-Nitrosodimethylamine	4.27	74	79580m	6.66	ug/mL	
4) Phenol	7.09	94	392332m	8.28	ug/mL	
5) Bis(2-chloroethyl)ether	7.24	93	318187m	8.20	ug/mL	
6) 2-Chlorophenol	7.30	128	323665	8.68	ug/mL	97
7) Benzyl Alcohol	7.82	108	198398	8.40	ug/mL	95
8) 1,3-Dichlorobenzene	7.52	146	271845	7.14	ug/mL	97
9) 1,4-Dichlorobenzene	7.63	146	287006	7.39	ug/mL	97
10) 1,2-Dichlorobenzene	7.86	146	269594	7.76	ug/mL	99
11) 2-Methylphenol	7.98	107	257303	9.35	ug/mL	96
12) 3-, 4-Methylphenol	8.22	107	628065	15.75	ug/mL#	70
13) Bis(2-chloroisopropyl)ethe	8.03	45	554304	8.80	ug/mL	99
14) N-Nitrosodi-n-propylamine	8.23	70	184788	8.46	ug/mL	97
15) Hexachloroethane	8.36	117	86740	6.32	ug/mL	98
19) Nitrobenzene	8.48	77	354052	9.77	ug/mL	99
20) Isophorone	8.85	82	623226	10.45	ug/mL	98
21) 2-Nitrophenol	8.96	139	172182	8.30	ug/mL	94
22) 2,4-Dimethylphenol	9.03	122	272977	14.23	ug/mL	96
23) Benzoic Acid	9.20	122	178492	8.21	ug/mL#	1
24) Bis(2-chloroethoxy)methane	9.19	93	379344	9.38	ug/mL	100
25) 2,4-Dichlorophenol	9.34	162	244123	9.10	ug/mL	97

(#) = qualifier out of range (m) = manual integration
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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100705\1007717.D Vial: 17
Acq On : 7 Oct 2005 8:33 pm Operator: MRC
Sample : G649-1-1P MSD x1 Inst : MSD7
Misc : 8270 [3520-3780] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 07 21:01:39 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7100705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
26)	1,2,4-Trichlorobenzene	9.47	180	254331	8.78	ug/mL	100
27)	Naphthalene	9.59	128	879874	9.32	ug/mL	99
28)	4-Chloroaniline	9.69	127	252887	22.39	ug/mL	98
29)	Hexachlorobutadiene	9.79	225	121852	8.67	ug/mL	98
30)	4-Chloro-3-methylphenol	10.46	107	272936	9.67	ug/mL	99
31)	2-Methylnaphthalene	10.70	142	620703	8.87	ug/mL	98
34)	Hexachlorocyclopentadiene	10.94	237	19019	3.98	ug/mL#	94
35)	2,4,6-Trichlorophenol	11.15	196	176383	9.27	ug/mL	100
36)	2,4,5-Trichlorophenol	11.20	196	185765	9.37	ug/mL	97
37)	2-Chloronaphthalene	11.48	162	547673	9.71	ug/mL	98
38)	2-Nitroaniline	11.66	65	184001	10.42	ug/mL	98
39)	3-Nitroaniline	12.71	138	12846	9.07	ug/mL	92
40)	1-Methylnaphthalene	10.85	142	600111	8.55	ug/mL	96
41)	Dimethylphthalate	11.97	163	636993	9.78	ug/mL	99
42)	Acenaphthylene	12.15	152	901758	11.15	ug/mL	99
43)	2,6-Dinitrotoluene	12.06	165	143807	9.78	ug/mL	96
44)	Acenaphthene	12.43	153	561463	9.98	ug/mL	97
45)	2,4-Dinitrophenol	12.50	184	38606	4.01	ug/mL	92
46)	4-Nitrophenol	12.61	109	88746	11.65	ug/mL	97
47)	Dibenzofuran	12.71	168	728890	9.12	ug/mL	95
48)	2,4-Dinitrotoluene	12.71	165	173265	9.67	ug/mL#	78
49)	Fluorene	13.27	166	611102	10.15	ug/mL	100
50)	Diethylphthalate	13.11	149	676741	10.39	ug/mL	97
51)	4-Chlorophenyl phenyl ethe	13.28	204	282793	9.90	ug/mL	96
52)	4-Nitroaniline	13.32	138	129154	16.99	ug/mL	95
56)	4,6-Dinitro-2-methylphenol	13.36	198	57914	4.94	ug/mL	91
57)	Diphenylamine	13.48	169	486512	29.74	ug/mL	94
58)	4-bromophenyl phenyl ether	14.07	248	150777	9.77	ug/mL#	89
59)	Hexachlorobenzene	14.15	284	143860	9.70	ug/mL#	86
60)	Pentachlorophenol	14.48	266	82999	7.69	ug/mL	98
61)	Phenanthrene	14.83	178	922864	10.09	ug/mL	99
63)	Anthracene	14.91	178	855635	10.00	ug/mL	100
64)	Azobenzene	13.53	77	708333	10.25	ug/mL	96
65)	Di-n-Butylphthalate	15.78	149	1174986	10.46	ug/mL	99
66)	Fluoranthene	16.76	202	872514	10.01	ug/mL	98
86)	Pyrene	17.12	202	889772	11.56	ug/mL	98
87)	Butylbenzylphthalate	18.21	149	482785	11.28	ug/mL	94
88)	Benzo[a]anthracene	19.07	228	612705	10.12	ug/mL	99
89)	3,3'-Dichlorobenzidine	19.04	252	144441	21.11	ug/mL#	99
90)	Chrysene	19.13	228	587137	10.63	ug/mL	99
91)	Bis(2-ethylhexyl)phthalate	19.15	149	664107	10.94	ug/mL#	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100705\1007717.D Vial: 17
Acq On : 7 Oct 2005 8:33 pm Operator: MRC
Sample : G649-1-1P MSD x1 Inst : MSD7
Misc : 8270 [3520-3780] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 07 21:01:39 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7100705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
94)	Di-n-octylphthalate	20.23	149	981421	15.28 ug/mL	100
95)	Benzo[b]fluoranthene	20.92	252	403880	11.79 ug/mL	98
96)	Benzo[k]fluoranthene	20.98	252	426004	13.22 ug/mL	99
97)	Benzo[a]pyrene	21.60	252	313840	11.20 ug/mL	95
98)	Indeno(1,2,3-c,d)pyrene	24.58	276	166982	9.03 ug/mL	100
99)	Dibenzo[a,h]anthracene	24.66	278	180009	10.02 ug/mL	95
100)	Benzo[g,h,i]perylene	25.44	276	164708	9.16 ug/mL	96

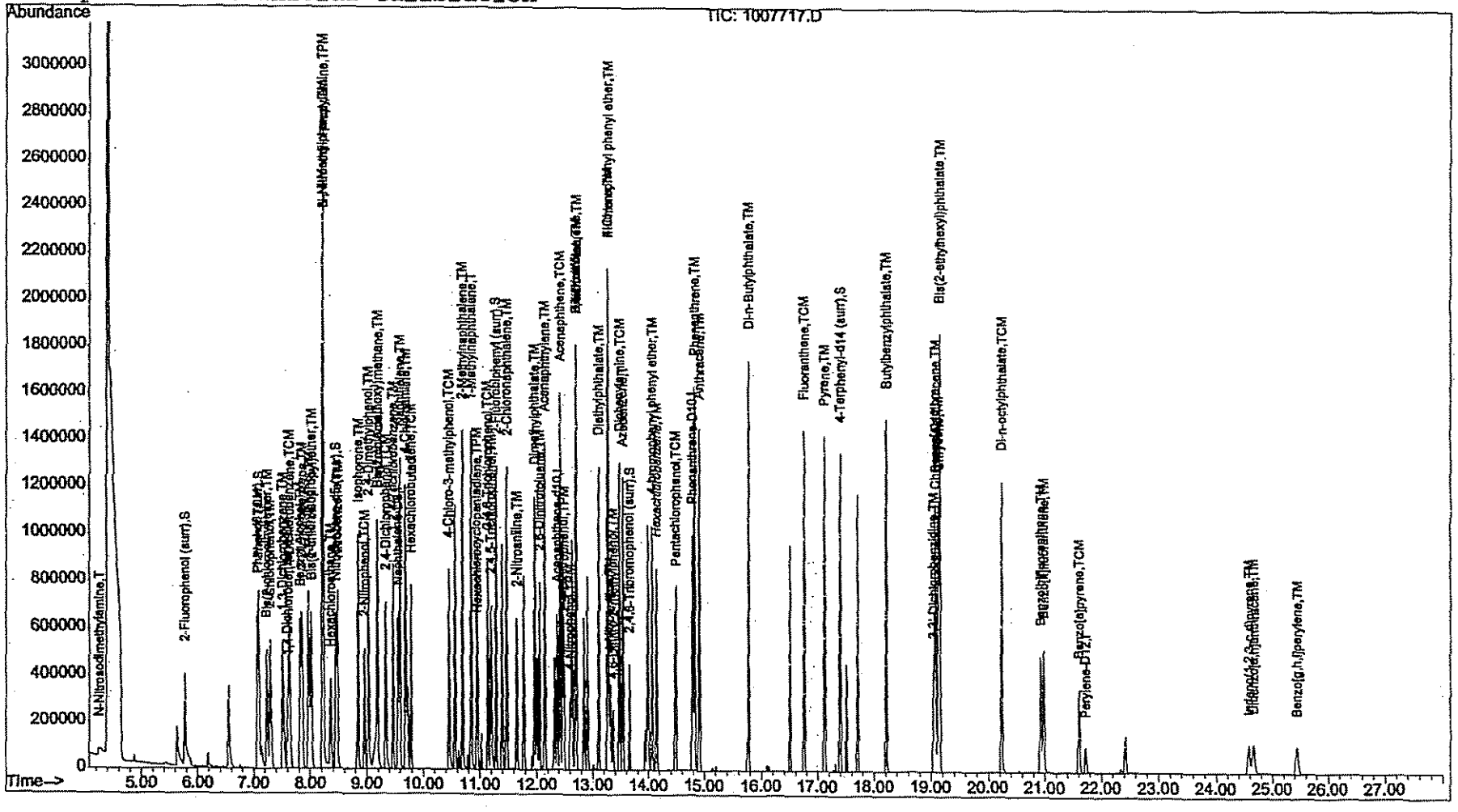
(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7100705\1007717.D
Acq On : 7 Oct 2005 8:33 pm
Sample : G649-1-1P MSD x1
Misc : 8270 [3520-3780]
MS Integration Params: rteint.p
Quant Time: Oct 10 9:56 2005

Vial: 17
Operator: MRC
Inst : MSD7
Multiplr: 1.00
Quant Results File: 8270.RES

Method : C:\MSDCHEM\1\DATA\7100705\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Initial Calibration



1007717.D 8270.M Mon Oct 10 10:51:08 2005 ENV

PARADIGM ANALYTICAL LABORATORIES, INC.

N.C. CERTIFICATION #481

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7101005\1010704.D Vial: 4
Acq On : 10 Oct 2005 5:53 pm Operator: MRC
Sample : PB3790 x1 Inst : MSD7
Misc : 8270 [3540-3790] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 10 18:21:13 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7101005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Initial Calibration
DataAcq Meth : 8270

MRC 10.11.05

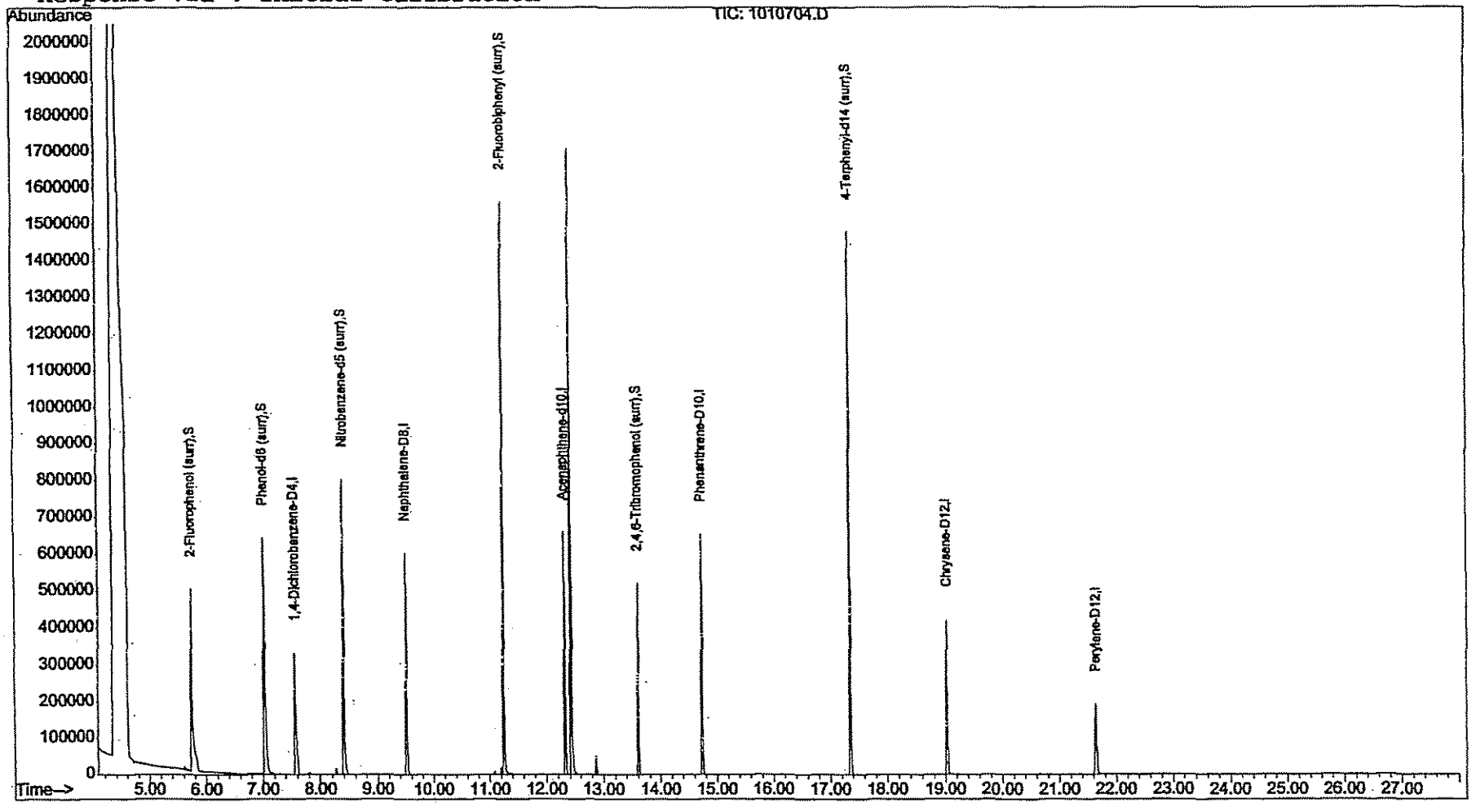
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.56	152	110489	4.00	ug/mL	-0.08
18) Naphthalene-D8	9.51	136	440905	4.00	ug/mL	-0.09
33) Acenaphthene-d10	12.32	164	211832	4.00	ug/mL	-0.09
55) Phenanthrene-D10	14.73	188	358680	4.00	ug/mL	-0.09
85) Chrysene-D12	19.03	240	234293	4.00	ug/mL	-0.10
93) Perylene-D12	21.64	264	172165	4.00	ug/mL	-0.14
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.74	112	329006	10.36	ug/mL	-0.05
Spiked Amount 10.000			Recovery = 103.60%			
17) Phenol-d6 (surr)	7.02	99	459356	10.46	ug/mL	-0.06
Spiked Amount 10.000			Recovery = 104.60%			
32) Nitrobenzene-d5 (surr)	8.40	128	175840	10.60	ug/mL	-0.08
Spiked Amount 10.000			Recovery = 106.00%			
53) 2-Fluorobiphenyl (surr)	11.25	172	687388	10.89	ug/mL	-0.08
Spiked Amount 10.000			Recovery = 108.90%			
54) 2,4,6-Tribromophenol (surr	13.61	330	65877	9.96	ug/mL	-0.08
Spiked Amount 10.000			Recovery = 99.60%			
92) 4-Terphenyl-d14 (surr)	17.35	244	662806	10.87	ug/mL	-0.09
Spiked Amount 10.000			Recovery = 108.70%			
Target Compounds						Qvalue
57) Diphenylamine	13.60	169	771	Below Cal	#	25

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7101005\1010704.D Vial: 4
Acq On : 10 Oct 2005 5:53 pm Operator: MRC
Sample : PB3790 x1 Inst : MSD7
Misc : 8270 [3540-3790] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 12:37 2005 Quant Results File: 8270.RES

Method : C:\MSDCHEM\1\DATA\7101005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Initial Calibration



1010704.D 8270.M Tue Oct 11 13:01:29 2005 ENV Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7101005\1010705.D Vial: 5
Acq On : 10 Oct 2005 6:30 pm Operator: MRC
Sample : LCS3790 x1 Inst : MSD7
Misc : 8270 [3540-3790] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 10 18:58:24 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7101005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Initial Calibration
DataAcq Meth : 8270

pmc 10.11.05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.56	152	94307	4.00	ug/mL	-0.08
18) Naphthalene-D8	9.51	136	380174	4.00	ug/mL	-0.08
33) Acenaphthene-d10	12.33	164	179798	4.00	ug/mL	-0.08
55) Phenanthrene-D10	14.74	188	292294	4.00	ug/mL	-0.09
85) Chrysene-D12	19.03	240	194393	4.00	ug/mL	-0.09
93) Perylene-D12	21.64	264	131246	4.00	ug/mL	-0.14
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.75	112	303373	11.19	ug/mL	-0.04
Spiked Amount 10.000			Recovery =		111.90%	
17) Phenol-d6 (surr)	7.03	99	412850	11.01	ug/mL	-0.05
Spiked Amount 10.000			Recovery =		110.10%	
32) Nitrobenzene-d5 (surr)	8.41	128	156431	10.94	ug/mL	-0.08
Spiked Amount 10.000			Recovery =		109.40%	
53) 2-Fluorobiphenyl (surr)	11.25	172	611916	11.42	ug/mL	-0.08
Spiked Amount 10.000			Recovery =		114.20%	
54) 2,4,6-Tribromophenol (surr	13.61	330	59577	10.61	ug/mL	-0.08
Spiked Amount 10.000			Recovery =		106.10%	
92) 4-Terphenyl-d14 (surr)	17.35	244	579757	11.46	ug/mL	-0.09
Spiked Amount 10.000			Recovery =		114.60%	
Target Compounds						Qvalue
2) Pyridine	4.20	79	169532	9.87	ug/mL	91
3) N-Nitrosodimethylamine	4.18	74	120388	10.37	ug/mL#	82
4) Phenol	7.05	94	416281m	10.55	ug/mL	
5) Bis(2-chloroethyl)ether	7.20	93	379005m	11.73	ug/mL	
6) 2-Chlorophenol	7.26	128	351658	11.32	ug/mL	97
7) Benzyl Alcohol	7.78	108	214426	10.90	ug/mL	98
8) 1,3-Dichlorobenzene	7.48	146	384173	12.11	ug/mL	100
9) 1,4-Dichlorobenzene	7.59	146	397246	12.29	ug/mL	99
10) 1,2-Dichlorobenzene	7.81	146	357359	12.35	ug/mL	99
11) 2-Methylphenol	7.94	107	271926	11.86	ug/mL	94
12) 3-, 4-Methylphenol	8.18	107	659233	19.85	ug/mL#	67
13) Bis(2-chloroisopropyl)ethe	7.98	45	637982	12.16	ug/mL	98
14) N-Nitrosodi-n-propylamine	8.19	70	200646	11.03	ug/mL	97
15) Hexachloroethane	8.32	117	141913	12.41	ug/mL	94
19) Nitrobenzene	8.44	77	384952	12.69	ug/mL	97
20) Isophorone	8.81	82	667261	13.36	ug/mL	98
21) 2-Nitrophenol	8.92	139	193664	11.15	ug/mL	95
22) 2,4-Dimethylphenol	8.99	122	288007	17.93	ug/mL	97
23) Benzoic Acid	9.15	122	155972	8.56	ug/mL#	1
24) Bis(2-chloroethoxy)methane	9.15	93	406943	12.02	ug/mL	99

(#) = qualifier out of range (m) = manual integration
1010705.D 8270.M Tue Oct 11 13:01:31 2005 ENV Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7101005\1010705.D Vial: 5
Acq On : 10 Oct 2005 6:30 pm Operator: MRC
Sample : LCS3790 x1 Inst : MSD7
Misc : 8270 [3540-3790] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 10 18:58:24 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7101005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Initial Calibration
DataAcq Meth : 8270

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25) 2,4-Dichlorophenol	9.29	162	251454	11.20	ug/mL	97
26) 1,2,4-Trichlorobenzene	9.42	180	287869	11.87	ug/mL	99
27) Naphthalene	9.54	128	978263	12.37	ug/mL	99
28) 4-Chloroaniline	9.65	127	178895	19.61	ug/mL	95
29) Hexachlorobutadiene	9.74	225	143954	12.23	ug/mL	99
30) 4-Chloro-3-methylphenol	10.41	107	284868	12.05	ug/mL	98
31) 2-Methylnaphthalene	10.65	142	671190	11.46	ug/mL	99
34) Hexachlorocyclopentadiene	10.90	237	69917	17.73	ug/mL	100
35) 2,4,6-Trichlorophenol	11.10	196	180782	11.51	ug/mL	97
36) 2,4,5-Trichlorophenol	11.16	196	191572	11.71	ug/mL	99
37) 2-Chloronaphthalene	11.43	162	581006	12.48	ug/mL	99
38) 2-Nitroaniline	11.61	65	194483	13.34	ug/mL	97
39) 3-Nitroaniline	12.66	138	14097	12.07	ug/mL	96
40) 1-Methylnaphthalene	10.81	142	652663	11.27	ug/mL	97
41) Dimethylphthalate	11.92	163	660260	12.29	ug/mL	99
42) Acenaphthylene	12.10	152	976964	14.63	ug/mL	99
43) 2,6-Dinitrotoluene	12.01	165	156730	12.91	ug/mL	95
44) Acenaphthene	12.38	153	593631	12.79	ug/mL	98
45) 2,4-Dinitrophenol	12.45	184	80506	10.12	ug/mL#	84
46) 4-Nitrophenol	12.56	109	87177	13.86	ug/mL	97
47) Dibenzofuran	12.67	168	764168	11.58	ug/mL	96
48) 2,4-Dinitrotoluene	12.66	165	190628	12.89	ug/mL#	85
49) Fluorene	13.22	166	641870	12.92	ug/mL	99
50) Diethylphthalate	13.07	149	699082	13.00	ug/mL	97
51) 4-Chlorophenyl phenyl ethe	13.23	204	294602	12.50	ug/mL	96
52) 4-Nitroaniline	13.27	138	92552	14.75	ug/mL	97
56) 4,6-Dinitro-2-methylphenol	13.32	198	105860	10.78	ug/mL	89
57) Diphenylamine	13.43	169	503697	37.05	ug/mL	95
58) 4-bromophenyl phenyl ether	14.02	248	161537	12.50	ug/mL#	88
59) Hexachlorobenzene	14.10	284	155892	12.56	ug/mL#	90
60) Pentachlorophenol	14.43	266	89905	9.95	ug/mL	99
61) Phenanthrene	14.78	178	962933	12.57	ug/mL	99
63) Anthracene	14.86	178	889775	12.42	ug/mL	99
64) Azobenzene	13.49	77	737116	12.74	ug/mL	96
65) Di-n-Butylphthalate	15.73	149	1253399	13.33	ug/mL	99
66) Fluoranthene	16.71	202	951388	13.04	ug/mL	98
86) Pyrene	17.07	202	968800	12.80	ug/mL	96
87) Butylbenzylphthalate	18.17	149	548095	13.02	ug/mL	95
88) Benzo[a]anthracene	19.02	228	742540	12.47	ug/mL	99
89) 3,3'-Dichlorobenzidine	18.99	252	180983	26.29	ug/mL	97
90) Chrysene	19.07	228	718102	13.22	ug/mL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7101005\1010705.D Vial: 5
Acq On : 10 Oct 2005 6:30 pm Operator: MRC
Sample : LCS3790 x1 Inst : MSD7
Misc : 8270 [3540-3790] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 10 18:58:24 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7101005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	Bis(2-ethylhexyl)phthalate	19.11	149	765386	12.82	ug/mL#	97
94)	Di-n-octylphthalate	20.18	149	1203331	13.47	ug/mL	100
95)	Benzo[b]fluoranthene	20.86	252	611843	12.84	ug/mL	98
96)	Benzo[k]fluoranthene	20.91	252	667042	14.88	ug/mL	99
97)	Benzo[a]pyrene	21.53	252	541412	13.90	ug/mL	97
98)	Indeno(1,2,3-c,d)pyrene	24.45	276	330462m	12.86	ug/mL	
99)	Dibenzo[a,h]anthracene	24.54	278	345129	13.81	ug/mL	96
100)	Benzo[g,h,i]perylene	25.31	276	336347	13.46	ug/mL	95

(#) = qualifier out of range (m) = manual integration

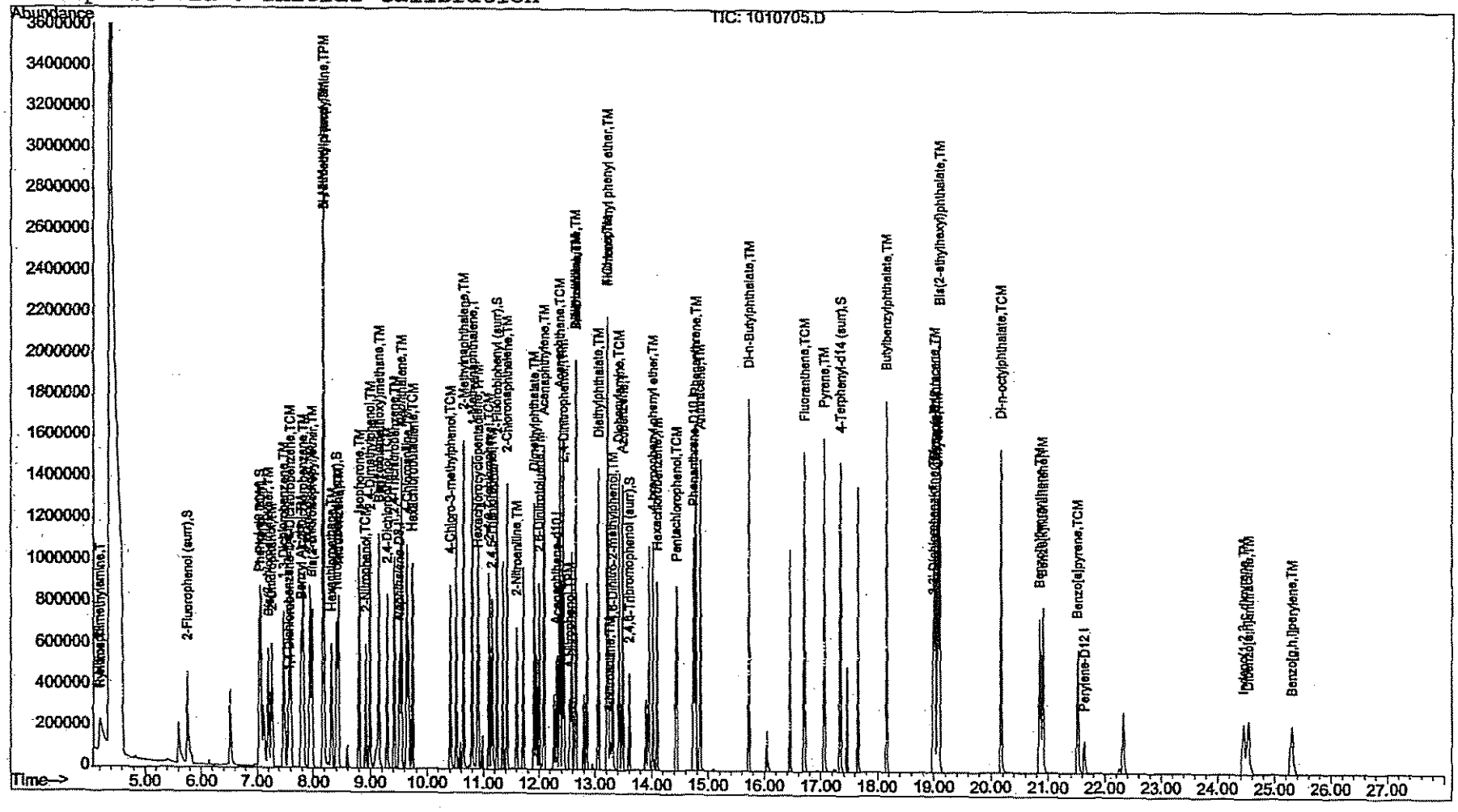
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7101005\1010705.D
Acq On : 10 Oct 2005 6:30 pm
Sample : LCS3790 x1
Misc : 8270 [3540-3790]
MS Integration Params: rteint.p
Quant Time: Oct 11 12:38 2005

Vial: 5
Operator: MRC
Inst : MSD7
Multiplr: 1.00

Quant Results File: 8270.RES

Method : C:\MSDCHEM\1\DATA\7101005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Initial Calibration



1010705.D 8270.M Tue Oct 11 13:01:35 2005 ENV

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7101005\1010706.D Vial: 6
Acq On : 10 Oct 2005 7:07 pm Operator: MRC
Sample : G161-2182-12D MS x1 Inst : MSD7
Misc : 8270 [3540-3790] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 10 19:35:51 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7101005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Initial Calibration
DataAcq Meth : 8270

MC 10.11.05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.57	152	102458	4.00	ug/mL	-0.07
18) Naphthalene-D8	9.51	136	410738	4.00	ug/mL	-0.08
33) Acenaphthene-d10	12.33	164	197934	4.00	ug/mL	-0.08
55) Phenanthrene-D10	14.74	188	317725	4.00	ug/mL	-0.09
85) Chrysene-D12	19.03	240	210220	4.00	ug/mL	-0.09
93) Perylene-D12	21.64	264	135233	4.00	ug/mL	-0.14
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.75	112	316924	10.76	ug/mL	-0.04
Spiked Amount 10.000			Recovery	=	107.60%	
17) Phenol-d6 (surr)	7.03	99	433587	10.64	ug/mL	-0.05
Spiked Amount 10.000			Recovery	=	106.40%	
32) Nitrobenzene-d5 (surr)	8.41	128	165360	10.70	ug/mL	-0.08
Spiked Amount 10.000			Recovery	=	107.00%	
53) 2-Fluorobiphenyl (surr)	11.25	172	639117	10.84	ug/mL	-0.08
Spiked Amount 10.000			Recovery	=	108.40%	
54) 2,4,6-Tribromophenol (surr	13.61	330	61647	9.97	ug/mL	-0.08
Spiked Amount 10.000			Recovery	=	99.70%	
92) 4-Terphenyl-d14 (surr)	17.35	244	614338	11.23	ug/mL	-0.09
Spiked Amount 10.000			Recovery	=	112.30%	

Target Compounds						Qvalue
2) Pyridine	4.24	79	70062	5.10	ug/mL	85
3) N-Nitrosodimethylamine	4.19	74	125375	10.03	ug/mL#	75
4) Phenol	7.06	94	452397m	10.55	ug/mL	
5) Bis(2-chloroethyl)ether	7.20	93	385526m	10.98	ug/mL	
6) 2-Chlorophenol	7.26	128	371196	10.99	ug/mL	98
7) Benzyl Alcohol	7.78	108	232282	10.86	ug/mL	95
8) 1,3-Dichlorobenzene	7.48	146	403891	11.72	ug/mL	99
9) 1,4-Dichlorobenzene	7.59	146	418129	11.90	ug/mL	99
10) 1,2-Dichlorobenzene	7.81	146	373892	11.89	ug/mL	97
11) 2-Methylphenol	7.94	107	283364	11.38	ug/mL	94
12) 3-, 4-Methylphenol	8.18	107	688290	19.07	ug/mL#	67
13) Bis(2-chloroisopropyl)ethe	7.98	45	667584	11.71	ug/mL	98
14) N-Nitrosodi-n-propylamine	8.19	70	209762	10.62	ug/mL	98
15) Hexachloroethane	8.32	117	148892	11.99	ug/mL	95
19) Nitrobenzene	8.44	77	402780	12.28	ug/mL	97
20) Isophorone	8.81	82	695555	12.89	ug/mL	98
21) 2-Nitrophenol	8.92	139	203055	10.82	ug/mL	95
22) 2,4-Dimethylphenol	8.99	122	283596	16.34	ug/mL	97
23) Benzoic Acid	9.13	122	102667	5.22	ug/mL#	1
24) Bis(2-chloroethoxy)methane	9.15	93	428922	11.72	ug/mL	99

(#) = qualifier out of range (m) = manual integration
1010706.D 8270.M Tue Oct 11 13:01:36 2005 ENV Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7101005\1010706.D Vial: 6
Acq On : 10 Oct 2005 7:07 pm Operator: MRC
Sample : G161-2182-12D MS x1 Inst : MSD7
Misc : 8270 [3540-3790] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 10 19:35:51 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7101005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25)	2,4-Dichlorophenol	9.29	162	261829	10.79	ug/mL	97
26)	1,2,4-Trichlorobenzene	9.42	180	302099	11.53	ug/mL	96
27)	Naphthalene	9.54	128	1079870	12.64	ug/mL	99
28)	4-Chloroaniline	9.65	127	181811	18.69	ug/mL	97
29)	Hexachlorobutadiene	9.74	225	152938	12.03	ug/mL	99
30)	4-Chloro-3-methylphenol	10.41	107	304485	11.92	ug/mL	99
31)	2-Methylnaphthalene	10.65	142	761265	12.03	ug/mL	100
34)	Hexachlorocyclopentadiene	10.90	237	73487	16.92	ug/mL	99
35)	2,4,6-Trichlorophenol	11.10	196	191403	11.07	ug/mL	99
36)	2,4,5-Trichlorophenol	11.16	196	205644	11.42	ug/mL	100
37)	2-Chloronaphthalene	11.43	162	616319	12.03	ug/mL	99
38)	2-Nitroaniline	11.61	65	205956	12.83	ug/mL	97
39)	3-Nitroaniline	12.66	138	15076	11.72	ug/mL	97
40)	1-Methylnaphthalene	10.80	142	707412	11.10	ug/mL	95
41)	Dimethylphthalate	11.92	163	699360	11.82	ug/mL	100
42)	Acenaphthylene	12.10	152	1026530	13.97	ug/mL	100
43)	2,6-Dinitrotoluene	12.01	165	163963	12.27	ug/mL	94
44)	Acenaphthene	12.38	153	628393	12.30	ug/mL	99
45)	2,4-Dinitrophenol	12.46	184	79495	9.08	ug/mL	90
46)	4-Nitrophenol	12.56	109	95694	13.82	ug/mL	95
47)	Dibenzofuran	12.67	168	818079	11.26	ug/mL	96
48)	2,4-Dinitrotoluene	12.66	165	201314	12.37	ug/mL#	82
49)	Fluorene	13.22	166	684984	12.53	ug/mL	100
50)	Diethylphthalate	13.07	149	743125	12.55	ug/mL	98
51)	4-Chlorophenyl phenyl ethe	13.23	204	315594	12.16	ug/mL	97
52)	4-Nitroaniline	13.27	138	96327	13.95	ug/mL	94
56)	4,6-Dinitro-2-methylphenol	13.32	198	115180	10.79	ug/mL#	85
57)	Diphenylamine	13.43	169	530805	35.89	ug/mL	93
58)	4-bromophenyl phenyl ether	14.02	248	170263	12.12	ug/mL#	91
59)	Hexachlorobenzene	14.10	284	164016	12.15	ug/mL#	88
60)	Pentachlorophenol	14.43	266	94400	9.61	ug/mL	99
61)	Phenanthrene	14.78	178	1060437	12.74	ug/mL	99
63)	Anthracene	14.86	178	959681	12.32	ug/mL	100
64)	Azobenzene	13.49	77	779305	12.39	ug/mL	97
65)	Di-n-Butylphthalate	15.74	149	1321305	12.93	ug/mL	99
66)	Fluoranthene	16.71	202	1054042	13.29	ug/mL	98
86)	Pyrene	17.08	202	1085549	13.26	ug/mL	99
87)	Butylbenzylphthalate	18.17	149	569928	12.52	ug/mL	95
88)	Benzo[a]anthracene	19.02	228	790739	12.28	ug/mL	99
89)	3,3'-Dichlorobenzidine	18.99	252	136042	18.95	ug/mL	98
90)	Chrysene	19.07	228	779443	13.27	ug/mL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7101005\1010706.D Vial: 6
Acq On : 10 Oct 2005 7:07 pm Operator: MRC
Sample : G161-2182-12D MS x1 Inst : MSD7
Misc : 8270 [3540-3790] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 10 19:35:51 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7101005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Initial Calibration
DataAcq Meth : 8270

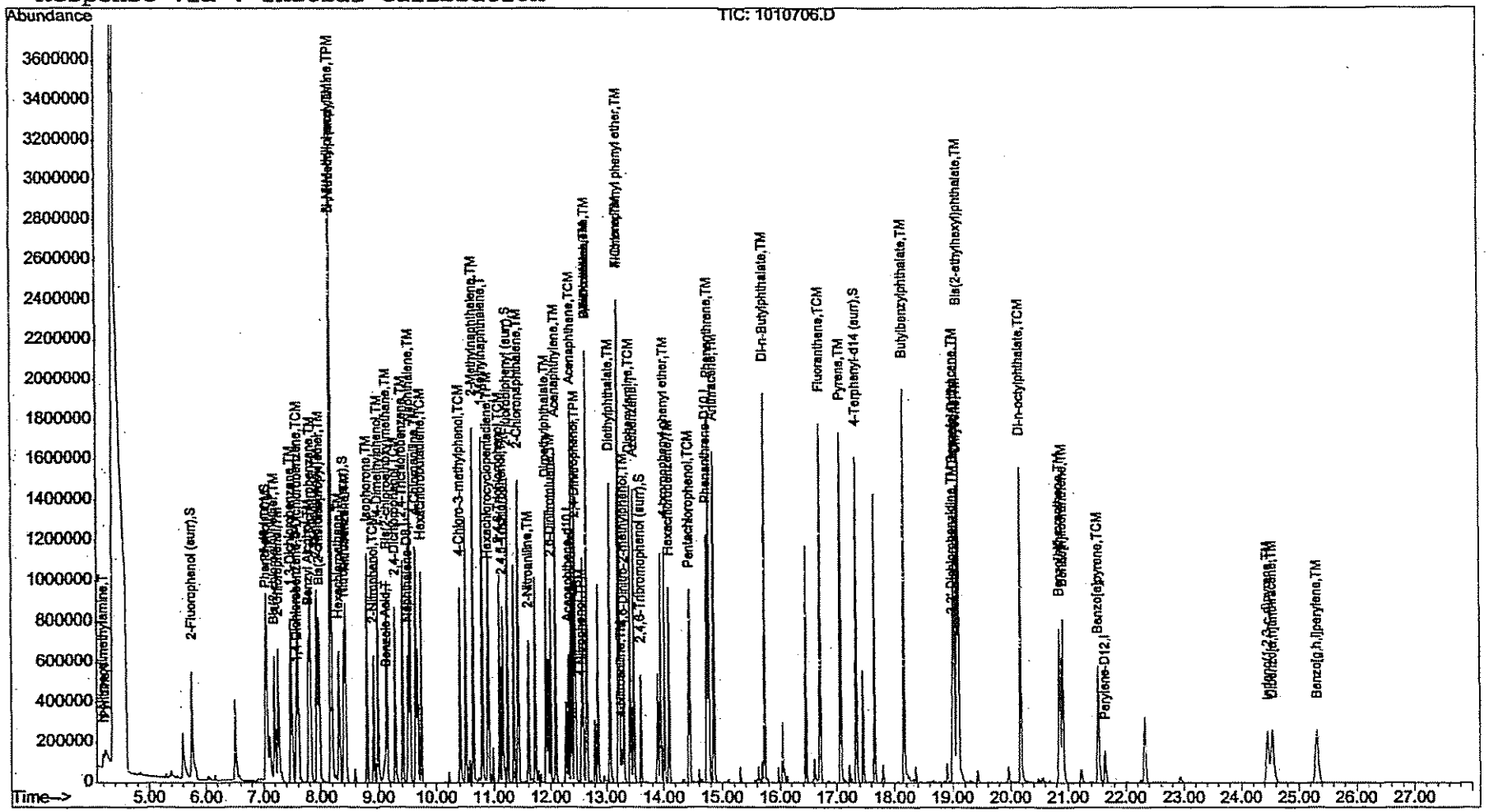
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
91)	Bis(2-ethylhexyl)phthalate	19.11	149	795833	12.33 ug/mL#	97
94)	Di-n-octylphthalate	20.18	149	1196833	13.00 ug/mL	100
95)	Benzo[b]fluoranthene	20.86	252	612167	12.47 ug/mL	98
96)	Benzo[k]fluoranthene	20.91	252	650125	14.08 ug/mL	99
97)	Benzo[a]pyrene	21.53	252	541025	13.48 ug/mL	97
98)	Indeno(1,2,3-c,d)pyrene	24.46	276	346816m	13.09 ug/mL	
99)	Dibenzo[a,h]anthracene	24.54	278	351010	13.64 ug/mL	96
100)	Benzo[g,h,i]perylene	25.31	276	371055	14.41 ug/mL	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7101005\1010706.D Vial: 6
Acq On : 10 Oct 2005 7:07 pm Operator: MRC
Sample : G161-2182-12D MS x1 Inst : MSD7
Misc : 8270 [3540-3790] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 11 12:39 2005 Quant Results File: 8270.RES

Method : C:\MSDCHEM\1\DATA\7101005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Initial Calibration



PARADIGM ANALYTICAL LABORATORIES, INC.

N.C. CERTIFICATION #481

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7101005\1010707.D Vial: 7
Acq On : 10 Oct 2005 7:45 pm Operator: MRC
Sample : G161-2182-12E MSD x1 Inst : MSD7
Misc : 8270 [3540-3790] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 10 20:13:56 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7101005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Initial Calibration
DataAcq Meth : 8270

WC 10-11-05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-D4	7.57	152	121725	4.00	ug/mL	-0.07
18) Naphthalene-D8	9.52	136	479971	4.00	ug/mL	-0.08
33) Acenaphthene-d10	12.33	164	230630	4.00	ug/mL	-0.08
55) Phenanthrene-D10	14.74	188	366798	4.00	ug/mL	-0.08
85) Chrysene-D12	19.04	240	245024	4.00	ug/mL	-0.09
93) Perylene-D12	21.64	264	164234	4.00	ug/mL	-0.14
System Monitoring Compounds						
16) 2-Fluorophenol (surr)	5.76	112	397524	11.36	ug/mL	-0.03
Spiked Amount 10.000			Recovery = 113.60%			
17) Phenol-d6 (surr)	7.04	99	545157	11.26	ug/mL	-0.04
Spiked Amount 10.000			Recovery = 112.60%			
32) Nitrobenzene-d5 (surr)	8.41	128	210403	11.66	ug/mL	-0.07
Spiked Amount 10.000			Recovery = 116.60%			
53) 2-Fluorobiphenyl (surr)	11.25	172	809170	11.77	ug/mL	-0.08
Spiked Amount 10.000			Recovery = 117.70%			
54) 2,4,6-Tribromophenol (surr	13.61	330	79406	11.03	ug/mL	-0.08
Spiked Amount 10.000			Recovery = 110.30%			
92) 4-Terphenyl-d14 (surr)	17.35	244	765605	12.01	ug/mL	-0.08
Spiked Amount 10.000			Recovery = 120.10%			
Target Compounds						Qvalue
2) Pyridine	4.24	79	116509	6.27	ug/mL	96
3) N-Nitrosodimethylamine	4.20	74	161503	10.69	ug/mL#	78
4) Phenol	7.06	94	549232m	10.78	ug/mL	
5) Bis(2-chloroethyl)ether	7.20	93	474651m	11.38	ug/mL	
6) 2-Chlorophenol	7.27	128	459365	11.45	ug/mL	98
7) Benzyl Alcohol	7.78	108	289959	11.42	ug/mL	95
8) 1,3-Dichlorobenzene	7.49	146	496012	12.11	ug/mL	99
9) 1,4-Dichlorobenzene	7.59	146	513688	12.31	ug/mL	99
10) 1,2-Dichlorobenzene	7.81	146	460342	12.32	ug/mL	97
11) 2-Methylphenol	7.95	107	351972	11.90	ug/mL	96
12) 3-, 4-Methylphenol	8.18	107	834386	19.46	ug/mL#	66
13) Bis(2-chloroisopropyl)ethe	7.99	45	819650	12.10	ug/mL	99
14) N-Nitrosodi-n-propylamine	8.19	70	259944	11.07	ug/mL	96
15) Hexachloroethane	8.32	117	181762	12.32	ug/mL	95
19) Nitrobenzene	8.44	77	500290	13.06	ug/mL	100
20) Isophorone	8.81	82	863207	13.69	ug/mL	97
21) 2-Nitrophenol	8.92	139	256085	11.67	ug/mL	95
22) 2,4-Dimethylphenol	8.99	122	350451	17.28	ug/mL	97
23) Benzoic Acid	9.14	122	125648	5.46	ug/mL#	1
24) Bis(2-chloroethoxy)methane	9.15	93	527293	12.33	ug/mL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7101005\1010707.D Vial: 7
Acq On : 10 Oct 2005 7:45 pm Operator: MRC
Sample : G161-2182-12E MSD x1 Inst : MSD7
Misc : 8270 [3540-3790] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 10 20:13:56 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7101005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
25)	2,4-Dichlorophenol	9.30	162	322967	11.39	ug/mL	99
26)	1,2,4-Trichlorobenzene	9.43	180	377648	12.33	ug/mL	100
27)	Naphthalene	9.55	128	1305848	13.08	ug/mL	100
28)	4-Chloroaniline	9.65	127	226198	19.64	ug/mL	97
29)	Hexachlorobutadiene	9.74	225	185561	12.49	ug/mL	99
30)	4-Chloro-3-methylphenol	10.41	107	371120	12.43	ug/mL	98
31)	2-Methylnaphthalene	10.65	142	916655	12.39	ug/mL	100
34)	Hexachlorocyclopentadiene	10.90	237	89798	17.75	ug/mL	100
35)	2,4,6-Trichlorophenol	11.10	196	235370	11.68	ug/mL	98
36)	2,4,5-Trichlorophenol	11.16	196	252580	12.04	ug/mL	99
37)	2-Chloronaphthalene	11.43	162	756636	12.67	ug/mL	98
38)	2-Nitroaniline	11.61	65	254426	13.61	ug/mL	97
39)	3-Nitroaniline	12.66	138	17697	11.81	ug/mL	95
40)	1-Methylnaphthalene	10.81	142	846913	11.40	ug/mL	94
41)	Dimethylphthalate	11.93	163	862274	12.51	ug/mL	100
42)	Acenaphthylene	12.10	152	1264631	14.77	ug/mL	99
43)	2,6-Dinitrotoluene	12.02	165	200228	12.86	ug/mL	96
44)	Acenaphthene	12.38	153	771527	12.96	ug/mL	99
45)	2,4-Dinitrophenol	12.46	184	93437	9.16	ug/mL#	82
46)	4-Nitrophenol	12.57	109	120997	15.00	ug/mL	93
47)	Dibenzofuran	12.67	168	1006186	11.89	ug/mL	96
48)	2,4-Dinitrotoluene	12.66	165	245210	12.93	ug/mL	86
49)	Fluorene	13.23	166	835264	13.11	ug/mL	98
50)	Diethylphthalate	13.07	149	906631	13.14	ug/mL	98
51)	4-Chlorophenyl phenyl ethe	13.23	204	384019	12.70	ug/mL	95
52)	4-Nitroaniline	13.27	138	122788	15.26	ug/mL	93
56)	4,6-Dinitro-2-methylphenol	13.32	198	140250	11.38	ug/mL	90
57)	Diphenylamine	13.43	169	649093	38.08	ug/mL	94
58)	4-bromophenyl phenyl ether	14.03	248	208894	12.88	ug/mL	93
59)	Hexachlorobenzene	14.11	284	200614	12.88	ug/mL#	89
60)	Pentachlorophenol	14.43	266	118574	10.46	ug/mL	98
61)	Phenanthrene	14.78	178	1267253	13.18	ug/mL	99
63)	Anthracene	14.87	178	1148368	12.77	ug/mL	99
64)	Azobenzene	13.49	77	947214	13.05	ug/mL	97
65)	Di-n-Butylphthalate	15.74	149	1603005	13.59	ug/mL	99
66)	Fluoranthene	16.71	202	1256477	13.73	ug/mL	98
86)	Pyrene	17.08	202	1294378	13.57	ug/mL	99
87)	Butylbenzylphthalate	18.17	149	687296	12.96	ug/mL	94
88)	Benzo[a]anthracene	19.02	228	954415	12.72	ug/mL	100
89)	3,3'-Dichlorobenzidine	18.99	252	166782	19.82	ug/mL#	96
90)	Chrysene	19.08	228	934912	13.66	ug/mL	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7101005\1010707.D Vial: 7
Acq On : 10 Oct 2005 7:45 pm Operator: MRC
Sample : G161-2182-12E MSD x1 Inst : MSD7
Misc : 8270 [3540-3790] Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 10 20:13:56 2005 Quant Results File: 8270.RES

Quant Method : C:\MSDCHEM\1\DATA\7101005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Initial Calibration
DataAcq Meth : 8270

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	Bis(2-ethylhexyl)phthalate	19.11	149	954335	12.68	ug/mL#	98
94)	Di-n-octylphthalate	20.18	149	1468504	13.14	ug/mL	100
95)	Benzo[b]fluoranthene	20.86	252	777965	13.05	ug/mL	98
96)	Benzo[k]fluoranthene	20.92	252	794234	14.16	ug/mL	100
97)	Benzo[a]pyrene	21.53	252	666061	13.66	ug/mL	98
98)	Indeno(1,2,3-c,d)pyrene	24.46	276	444981m	13.83	ug/mL	
99)	Dibenzo[a,h]anthracene	24.55	278	451308	14.44	ug/mL	99
100)	Benzo[g,h,i]perylene	25.32	276	463476	14.82	ug/mL	97

(#) = qualifier out of range (m) = manual integration

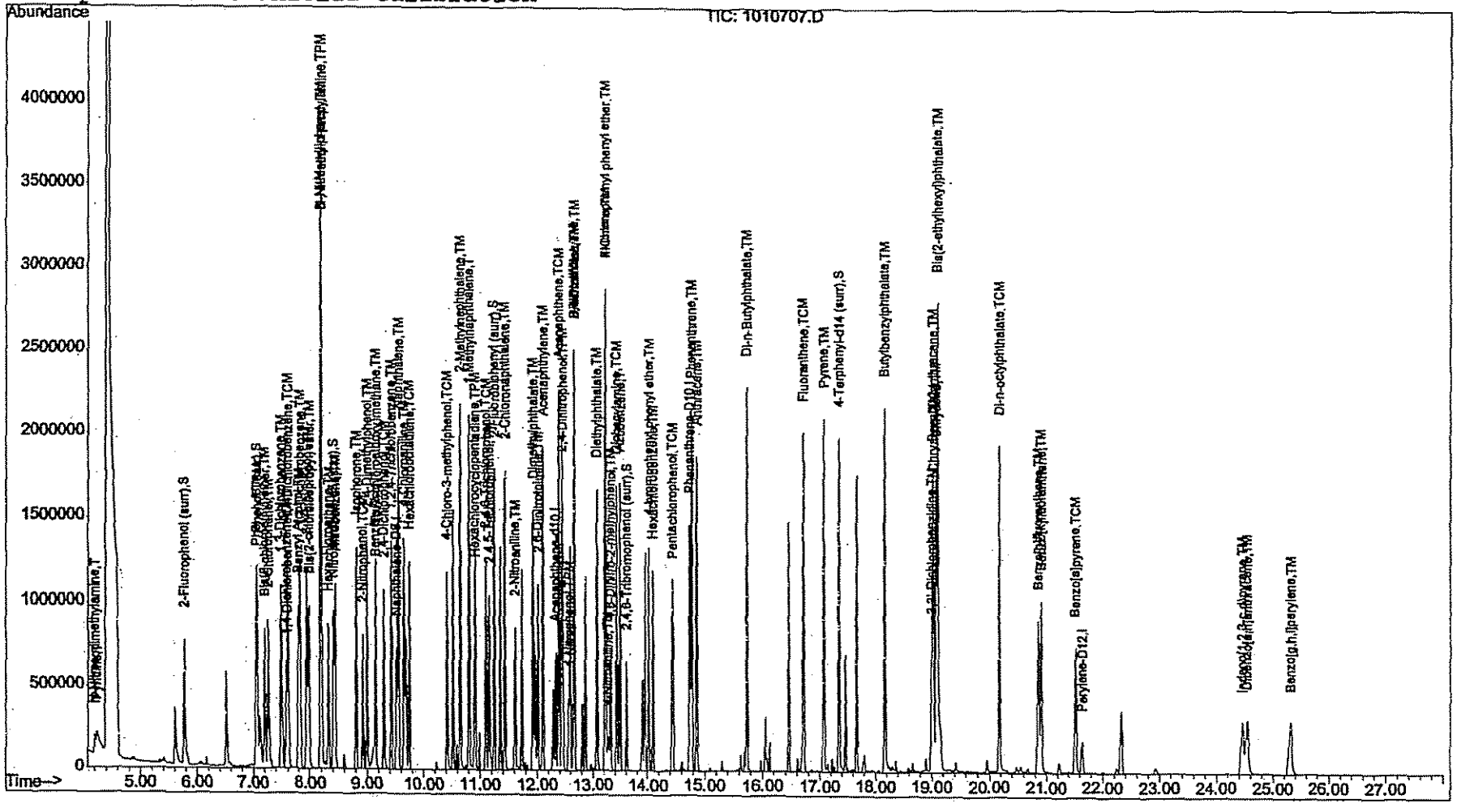
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\7101005\1010707.D
Acq On : 10 Oct 2005 7:45 pm
Sample : G161-2182-12E MSD x1
Misc : 8270 [3540-3790]
MS Integration Params: rteint.p
Quant Time: Oct 11 12:40 2005

Vial: 7
Operator: MRC
Inst : MSD7
Multiplr: 1.00

Quant Results File: 8270.RES

Method : C:\MSDCHEM\1\DATA\7101005\8270.M (RTE Integrator)
Title : 5 POINT INITIAL CALIBRATION FOR 8270
Last Update : Wed Oct 05 09:14:48 2005
Response via : Initial Calibration



1010707.D 8270.M Tue Oct 11 13:01:45 2005 ENV

PARADIGM ANALYTICAL LABORATORIES, INC

N.C. CERTIFICATION #481

8270-625 Prep, Standard, Run Logs

Prep Report for Batch 3790 (8270/3540/SOIL) on 2005-10-07 by nio

Sample ID (GCCODE)	EXT	InitWt	QCSpikeID	QCSpikeVol	SSpikeID	SSpikeVol	FinalVol	CH2Cl2Lot
G106-559-2H (168290)		35.84			8270srsvo3w20i	1	10	co874
G161-2180-1H (168297)		32.34			8270srsvo3w20i	1	10	co874
G161-2180-2H (168298)		32.05			8270srsvo3w20i	1	10	co874
G161-2180-3H (168299)		33.18			8270srsvo3w20i	1	10	co874
G161-2182-11H (168291)		32.68			8270srsvo3w20i	1	10	co874
G161-2182-12C (168292)		33.41			8270srsvo3w20i	1	10	co874
G161-2182-12D (168293)	ms	32.78	8270svmso1w16a	1	8270srsvo3w20i	1	10	co874
G161-2182-12E (168294)	msd	32.88	8270svmso1w16a	1	8270srsvo3w20i	1	10	co874
G161-2182-1C (168300)		34.01			8270srsvo3w20i	1	10	co874
G161-2182-6H (168301)		32.46			8270srsvo3w20i	1	10	co874
G161-2182-7H (168302)		32.95			8270srsvo3w20i	1	10	co874
G161-2182-9H (168303)		33.95			8270srsvo3w20i	1	10	co874
lcs3790	lcs	32	8270svmso1w16a	1	8270srsvo3w20i	1	10	co874
pb3790	pb	32			8270srsvo3w20i	1	10	co874

Prep Report for Batch 3780 (8270/3520/WATER) on 2005-10-06 by eaw

Sample ID (GCCODE)	EXT	InitVol	QCSpikeID	QCSpikeVol	SSpikeID	SSpikeVol	FinalVol	CH2Cl2Lot
G128-1611-1E (167706)		500			8270SRSV03W20I	0.5	5.0	CO874
G128-1611-1F (167707)	DUP	400			8270SRSV03W20I	0.5	5.0	CO874
G161-2179-1E (167698)		500			8270SRSV02W20H	0.5	5.0	CO874
G161-2179-2E (167699)		500			8270SRSV02W20H	0.5	5.0	CO874
G161-2179-3E (167700)		500			8270SRSV02W20H	0.5	5.0	CO874
G161-2179-4E (167701)		500			8270SRSV02W20H	0.5	5.0	CO874
G161-2180-5I (167708)		500			8270SRSV03W20I	0.5	5.0	CO874
G161-2181-1G (167711)		500			8270SRSV03W20I	0.5	5.0	CO874
G161-2182-13L (167976)		500			8270SRSV03W20I	0.5	5.0	CO874
G161-2182-14K (167977)		500			8270SRSV03W20I	0.5	5.0	CO874
G161-2182-15L (167978)		500			8270SRSV03W20I	0.5	5.0	CO874
G161-2183-5G (167979)		500			8270SRSV03W20I	0.5	5.0	CO874
G204-492-5I (167702)		500			8270SRSV02W20H	0.5	5.0	CO874
G311-160-2K (167709)		500			8270SRSV03W20I	0.5	5.0	CO874
G311-160-4K (167710)		500			8270SRSV03W20I	0.5	5.0	CO874
G649-2-1N (167703)		500			8270SRSV02W20H	0.5	5.0	CO874
G649-2-1O (167704)	MS	250	8270QCSV03W16A	0.5	8270SRSV02W20H	0.5	5.0	CO874
G649-2-1P (167705)	MSD	250	8270QCSV03W16A	0.5	8270SRSV02W20H	0.5	5.0	CO874
LCS3780	LCS	500	8270QCSV03W16A	0.5	8270SRSV02W20H	0.5	5.0	CO874
PB3780	PB	500			8270SRSV02W20H	0.5	5.0	CO874

Paradigm Analytical
MSD7 Runlog

Method: 8270 / 625
Matrix: Water / Soil
Init.Cal. Batch 7100305
Batch: 7100305

DFTPP STD ID: SVMS01-W07-K
CVS STD ID: SVMS01-W15-A
CAL STD ID: SVMS01-W15-O
IS STD ID: SVMS01-W16-Q

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	RERUN
1003701.D	DFTPP 50ng	10/3/2005 8:49	OK			MRC	
1003702.D	SVCAL48	10/3/2005 9:12	OK			MRC	
1003709.D	SVCAL01	10/3/2005 9:51				MRC	
1003708.D	SVCAL02	10/3/2005 10:29				MRC	
1003707.D	SVCAL04	10/3/2005 11:06	8270			MRC	
1003706.D	SVCAL06	10/3/2005 11:43	CURVE OK			MRC	
1003705.D	SVCAL08	10/3/2005 12:20				MRC	
1003704.D	SVCAL12	10/3/2005 12:57				MRC	
1003703.D	SVCAL24	10/3/2005 13:35				MRC	
1003711.D	DFTPP 50ng	10/3/2005 14:07	OK			MRC	
1003712.D	SVCVS24	10/3/2005 14:31	OK			MRC	
1003713.D	SVCVS06	10/3/2005 15:08	OK			MRC	
1003714.D	SVCVS08	10/3/2005 15:45	OK CHC			MRC	
1003715C.d	PB3733 x1	10/3/2005 16:40		OK	OK	MRC	
1003716.D	G442-351-1E x1	10/3/2005 17:17				MRC	
1003716C.D	G442-351-1E x1	10/3/2005 17:17				MRC	
1003717.D	G442-351-2E x1	10/3/2005 17:54				MRC	
1003717C.D	G442-351-2E x1	10/3/2005 17:54				MRC	
1003718.D	G442-351-3E x1	10/3/2005 18:31				MRC	
1003718C.D	G442-351-3E x1	10/3/2005 18:31				MRC	

Analyst: mc

Page Number: 1455

PARADIGM ANALYTICAL LABORATORIES, INC

N.C. CERTIFICATION #481

Paradigm Analytical
MSD7 Runlog

Method: 8270 / 625
Matrix: Water / Soil
Init.Cal. Batch 7100305
Batch: 7100705

DFTPP STD ID: SVMS01-W07-K
CVS STD ID: SVMS01-W15-A
CAL STD ID: SVMS01-W15-O
IS STD ID: SVMS01-W16-Q

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	RERUN
1007701.D	DFTPP 50ng	10/7/2005 10:48	OK			MRC	
1007702.D	SVCVS24	10/7/2005 11:11	OK			MRC	
1007703.D	SVCVS06	10/7/2005 11:48	OK			MRC	
1007704.D	G106-558-1G x1	10/7/2005 12:26		OK	OK	MRC	
1007705.D	G106-558-2G x1	10/7/2005 13:03				MRC	
1007706.D	G106-558-3G x1	10/7/2005 13:41				MRC	
1007707.D	G106-558-4G x1	10/7/2005 14:18				MRC	
1007708.D	PB3768 x1	10/7/2005 14:56				MRC	
1007709.D	LCS3768 x1	10/7/2005 15:33				MRC	
1007710.D	G106-558-2H MS x1	10/7/2005 16:09				MRC	
1007711.D	G106-558-2I MSD x1	10/7/2005 16:47				MRC	
1007712.D	G649-3-1G x1	10/7/2005 17:24				MRC	
1007713.D	G649-3-2G x1	10/7/2005 18:02				MRC	
1007714.D	PB3780 x1	10/7/2005 18:39				MRC	
1007715.D	LCS3780 x1	10/7/2005 19:17				MRC	
1007716.D	G649-2-1O MS x1	10/7/2005 19:55				MRC	
1007717.D	G649-2-1P MSD x1	10/7/2005 20:33				MRC	
1007718.D	G128-1611-1F DUP x1	10/7/2005 21:11				MRC	
1007719.D	G161-2181-1G x1	10/7/2005 21:48				MRC	
1007720.D	G204-492-5I x1	10/7/2005 22:25				MRC	

Analyst: MC

Page Number: 1463

PARADIGM ANALYTICAL LABORATORIES, INC

NC CERTIFICATION #481

Paradigm Analytical
MSD7 Runlog

Method: 8270 / 625
Matrix: Water / Soil
Init.Cal. Batch 7100305
Batch: 7100705

DFTPP STD ID: SVMS01-W07-K
CVS STD ID: SVMS01-W15-A
CAL STD ID: SVMS01-W15-O
IS STD ID: SVMS01-W16-Q

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	RERUN
1007721.D	G161-2179-1E x1	10/7/2005 23:03		ok	ok	MRC	
1007722.D	G161-2179-2E x1	10/7/2005 23:41				MRC	
1007723.D	G161-2179-3E x1	10/8/2005 0:19				MRC	
1007724.D	G161-2179-4E x1	10/8/2005 0:56				MRC	
1007725.D	G128-1611-1E x1	10/8/2005 1:33				MRC	
1007726.D	G311-160-2K x1	10/8/2005 2:11				MRC	
1007727.D	G311-160-4K x1	10/8/2005 2:50				MRC	
1007728.D	G649-2-1N x1	10/8/2005 3:28				MRC	
1007729.D	G161-2180-5I x1	10/8/2005 4:05				MRC	
1007730.D	G161-2182-13L x1	10/8/2005 4:43				MRC	
1007731.D	G161-2182-14K x1	10/8/2005 5:21				MRC	
1007732.D	G161-2182-15L x1	10/8/2005 6:00				MRC	
1007733.D	G161-2183-5G x1	10/8/2005 6:38				MRC	
1007734.D	G414-67-4G	10/8/2005 7:15				MRC	
1007735.D	G414-67-5I	10/8/2005 7:52				MRC	
1007736.D	G161-2176-1E	10/8/2005 8:30				MRC	
1007737.D	G161-2176-2E	10/8/2005 9:09				MRC	

Analyst: MC

Page Number: 1464

PARADIGM ANALYTICAL LABORATORIES, INC.

N.C. CERTIFICATION #481

Paradigm Analytical
MSD7 Runlog

Method: 8270 / 625
Matrix: Water / Soil
Init.Cal. Batch 7100305
Batch: 7101005

DFTPP STD ID: SVMS01-W07-K
CVS STD ID: SVMS01-W15-A
CAL STD ID: SVMS01-W15-O
IS STD ID: SVMS01-W16-Q

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	RERUN
1010701.D	DFTPP 50ng	10/10/2005 16:16	OK			MRC	
1010702.D	SVCVS24	10/10/2005 16:39	OK			MRC	
1010703.D	SVCVS06	10/10/2005 17:16	OK			MRC	
1010704.D	PB3790 x1	10/10/2005 17:53		OK	OK	MRC	
1010705.D	LCS3790 x1	10/10/2005 18:30				MRC	
1010706.D	G161-2182-12D MS x1	10/10/2005 19:07				MRC	
1010707.D	G161-2182-12E MSD x1	10/10/2005 19:45				MRC	
1010708.D	G106-559-2H x1	10/10/2005 20:24				MRC	
1010709.D	G161-2182-11H x1	10/10/2005 21:02				MRC	
1010710.D	G161-2182-12C x1	10/10/2005 21:39				MRC	
1010711.D	G161-2180-1H x1	10/10/2005 22:17				MRC	
1010712.D	G161-2180-2H x1	10/10/2005 22:55				MRC	
1010713.D	G161-2180-3H x1	10/10/2005 23:33				MRC	
1010714.D	G161-2182-1C x1	10/11/2005 0:10				MRC	
1010715.D	G161-2182-6H x1	10/11/2005 0:47				MRC	
1010716.D	G161-2182-7H x1	10/11/2005 1:26				MRC	
1010717.D	G161-2182-9H x1	10/11/2005 2:04				MRC	

Analyst: MC

Page Number: 1465

PARADIGM ANALYTICAL LABORATORIES, INC.

NC CERTIFICATION #481

VPH Sample Raw Data

External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp101105\022F0101.D
perator : DCS
nstrument : FID/PID
ample Name : g161-2180-1d x1
un Time Bar Code:
cquired on : 11 Oct 05 07:10 PM
eport Created on: 12 Oct 05 02:27 PM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 22
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

ig. 1 in C:\HPCHEM\1\DATA\vp101105\022F0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.778	* not found *			1		n-Pentane
3.864	* not found *			1		2-Methylpentane
4.282	* not found *			1		MTBE
6.310	* not found *			1		2,2,4-Trimethylpentane
6.529	1371	BV	0.071	1	0.174	Benzene
7.981	15976	VV	0.058	1	1.696	Toluene
8.701	25553	PV	0.053	1	6.412	n-Nonane
8.861	37677	VV	0.048	1	3.683	EBenz, m-,p-Xylene
9.128	263859	VV	0.051	1	26.197	o-Xylene
9.402	221011	VV	0.040	1	851.339	BFB
9.810	519039	VV	0.094	1	287.457	1,2,4-Trimethylbenzene
11.214	273143	VV	0.042	1	-1123.035	Naphthalene
6.978	2201	PV	0.075		22.009	* uncalibrated *
7.118	7736	VV	0.075		77.359	* uncalibrated *
7.399	10204	VV	0.074		102.040	* uncalibrated *
7.510	9011	VV	0.063		90.112	* uncalibrated *
7.739	16853	PV	0.056		168.530	* uncalibrated *
7.864	6895	VV	0.059		68.946	* uncalibrated *
8.047	15680	VV	0.052		156.797	* uncalibrated *
8.126	12334	VV	0.055		123.343	* uncalibrated *
8.358	107987	VV	0.084		1079.865	* uncalibrated *
8.455	44119	VV	0.043		441.188	* uncalibrated *
8.543	3685	VV	0.047		36.849	* uncalibrated *
8.782	87227	VV	0.052		872.274	* uncalibrated *
8.930	101239	VV	0.062		1012.391	* uncalibrated *
9.021	60937	VV	0.048		609.371	* uncalibrated *
9.200	86960	VV	0.048		869.603	* uncalibrated *
9.310	31725	VV	0.039		317.253	* uncalibrated *
9.454	302256	VV	0.078		3022.564	* uncalibrated *
9.577	113836	VV	0.061		1138.355	* uncalibrated *
9.643	80765	VV	0.046		807.653	* uncalibrated *
9.964	113238	VV	0.059		1132.379	* uncalibrated *
10.075	288089	VV	0.057		2880.893	* uncalibrated *
10.125	98232	VV	0.030		982.322	* uncalibrated *
10.170	358679	VV	0.068		3586.791	* uncalibrated *
10.323	272904	VV	0.050		2729.043	* uncalibrated *
10.411	276385	VV	0.048		2763.849	* uncalibrated *
10.450	233306	VV	0.039		2333.058	* uncalibrated *
10.520	206506	VV	0.040		2065.055	* uncalibrated *
10.577	244286	VV	0.043		2442.864	* uncalibrated *
10.637	191202	VV	0.044		1912.017	* uncalibrated *

ata File Name : C:\HPCHEM\1\DATA\vp101105\022F0101.D
perator : DCS
nstrument : FID/PID
ample Name : g161-2180-1d x1
un Time Bar Code:
cquired on : 11 Oct 05 07:10 PM
eport Created on: 12 Oct 05 02:27 PM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

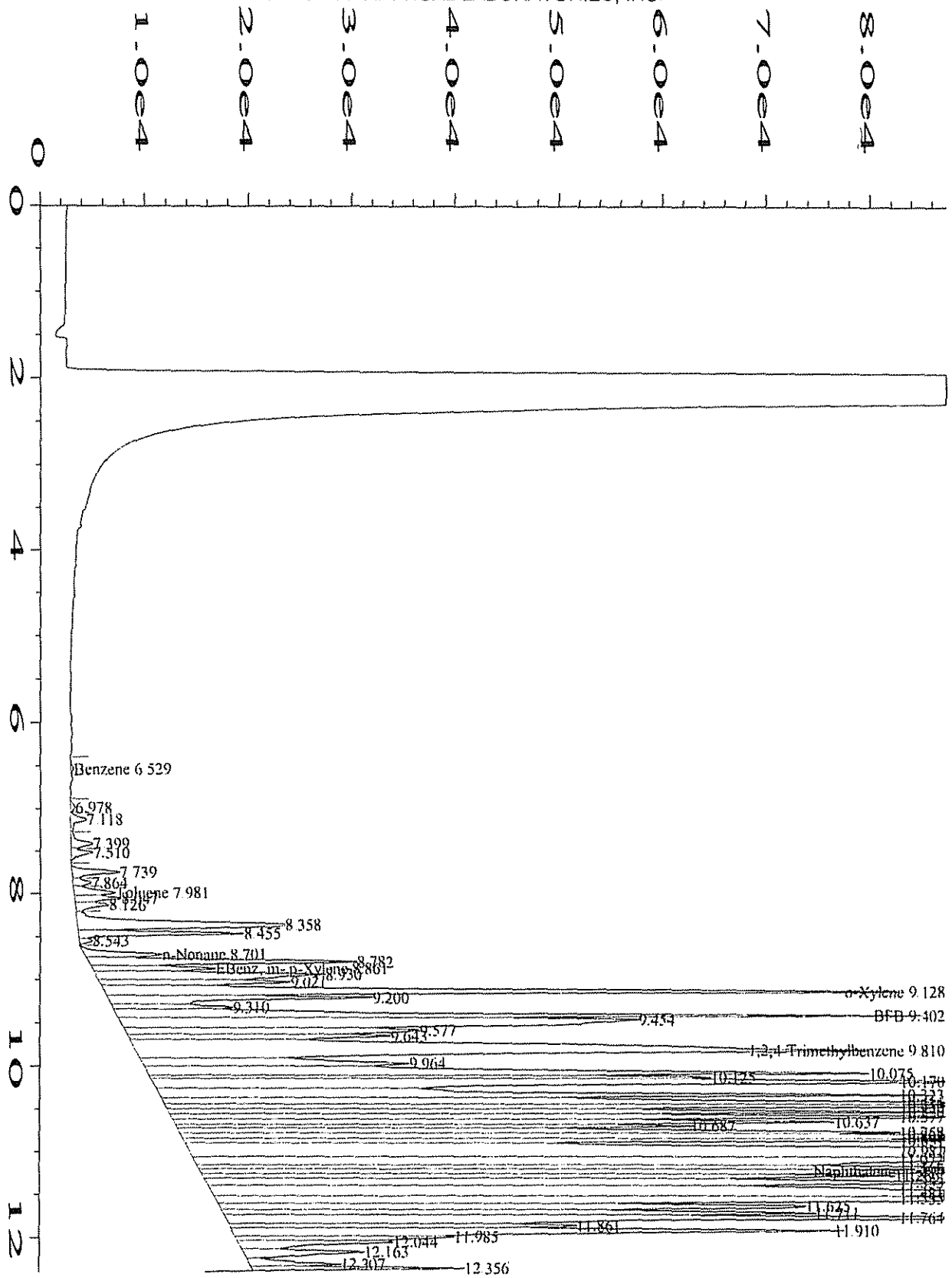
Page Number : 2
Vial Number : 22
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

10.687	117652	VV	0.033	1176.523	* uncalibrated *
10.758	202844	VV	0.048	2028.438	* uncalibrated *
10.803	327654	VV	0.043	3276.536	* uncalibrated *
10.851	188092	VV	0.035	1880.916	* uncalibrated *
10.981	808023	VV	0.082	8080.228	* uncalibrated *
11.072	411320	VV	0.057	4113.202	* uncalibrated *
11.166	206333	VV	0.039	2063.331	* uncalibrated *
11.266	211094	VV	0.043	2110.945	* uncalibrated *
11.353	336794	VV	0.055	3367.935	* uncalibrated *
11.481	543694	VV	0.068	5436.939	* uncalibrated *
11.535	352711	VV	0.056	3527.105	* uncalibrated *
11.625	227867	VV	0.055	2278.667	* uncalibrated *
11.711	176991	VV	0.044	1769.911	* uncalibrated *
11.764	373651	VV	0.042	3736.507	* uncalibrated *
11.861	88471	VV	0.038	884.707	* uncalibrated *
11.910	215963	VV	0.050	2159.626	* uncalibrated *
11.985	59075	VV	0.046	590.752	* uncalibrated *
12.044	55444	VV	0.053	554.438	* uncalibrated *
12.163	43418	VV	0.052	434.185	* uncalibrated *
12.307	25642	VV	0.040	256.418	* uncalibrated *
12.356	42714	VBA	0.032	427.141	* uncalibrated *

Calibration table contains at least one peak with amt = 0

Not all calibrated peaks were found

==========



Data File Name	: C:\HPCHEM\1\DATA\vp101105\022F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 22
Sample Name	: g161-2180-1d x1	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 11 Oct 05 07:10 PM	Instrument Method:	GAS1.MTH
Report Created on:	12 Oct 05 02:27 PM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp101105\022R0101.D
perator : DCS
nstrument : FID/PID
ample Name : g161-2180-1d x1
un Time Bar Code:
cquired on : 11 Oct 05 07:10 PM
eport Created on: 12 Oct 05 02:27 PM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 22
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

ig. 2 in C:\HPCHEM\1\DATA\vp101105\022R0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.829	* not found *			1		n-Pentane
3.878	* not found *			1		2-Methylpentane
4.267	* not found *			1		MTBE
6.312	* not found *			1		2,2,4-Trimethylpentane
6.603	* not found *			1		Benzene
7.869	6196	VV	0.055	1	0.152	Toluene
8.700	25506	PV	0.050	1	3.758	n-Nonane
8.863	32598	VV	0.050	1	0.964	ethbzene/m,p-xylene
9.130	293502	VV	0.058	1	7.577	o-Xylene
9.404	1112657	VV	0.059	1	74.887	BFB(pid)
9.811	715183	VV	0.093	1	23.294	1,2,4-Trimethylbenzene
11.213	460435	VV	0.043	1	26.306	Naphthalene(pid)
2.119	155330	BB	0.099		1553.299	* uncalibrated *
6.984	1350	BV	0.070		13.500	* uncalibrated *
7.122	8372	VV	0.070		83.716	* uncalibrated *
7.404	6112	VV	0.084		61.122	* uncalibrated *
7.516	6172	VV	0.071		61.719	* uncalibrated *
7.742	19860	PV	0.057		198.598	* uncalibrated *
7.983	19352	VV	0.061		193.520	* uncalibrated *
8.055	13813	VV	0.055		138.129	* uncalibrated *
8.128	7968	VV	0.056		79.681	* uncalibrated *
8.241	2209	VV	0.042		22.086	* uncalibrated *
8.350	110246	VV	0.078		1102.464	* uncalibrated *
8.456	42985	VV	0.047		429.848	* uncalibrated *
8.783	102997	VV	0.054		1029.971	* uncalibrated *
8.963	106412	VV	0.066		1064.121	* uncalibrated *
9.024	67571	VV	0.048		675.713	* uncalibrated *
9.197	73185	VV	0.045		731.850	* uncalibrated *
9.312	59562	VV	0.049		595.619	* uncalibrated *
9.580	183299	VV	0.063		1832.987	* uncalibrated *
9.642	106823	VV	0.045		1068.230	* uncalibrated *
9.966	178017	VV	0.063		1780.170	* uncalibrated *
10.077	397933	VV	0.057		3979.333	* uncalibrated *
10.175	843617	VV	0.091		8436.172	* uncalibrated *
10.323	308611	VV	0.043		3086.111	* uncalibrated *
10.416	355361	VV	0.052		3553.609	* uncalibrated *
10.451	457501	VV	0.045		4575.010	* uncalibrated *
10.521	382052	VV	0.041		3820.518	* uncalibrated *
10.577	446939	VV	0.047		4469.388	* uncalibrated *
10.636	286424	VV	0.043		2864.242	* uncalibrated *
10.687	193071	VV	0.035		1930.707	* uncalibrated *

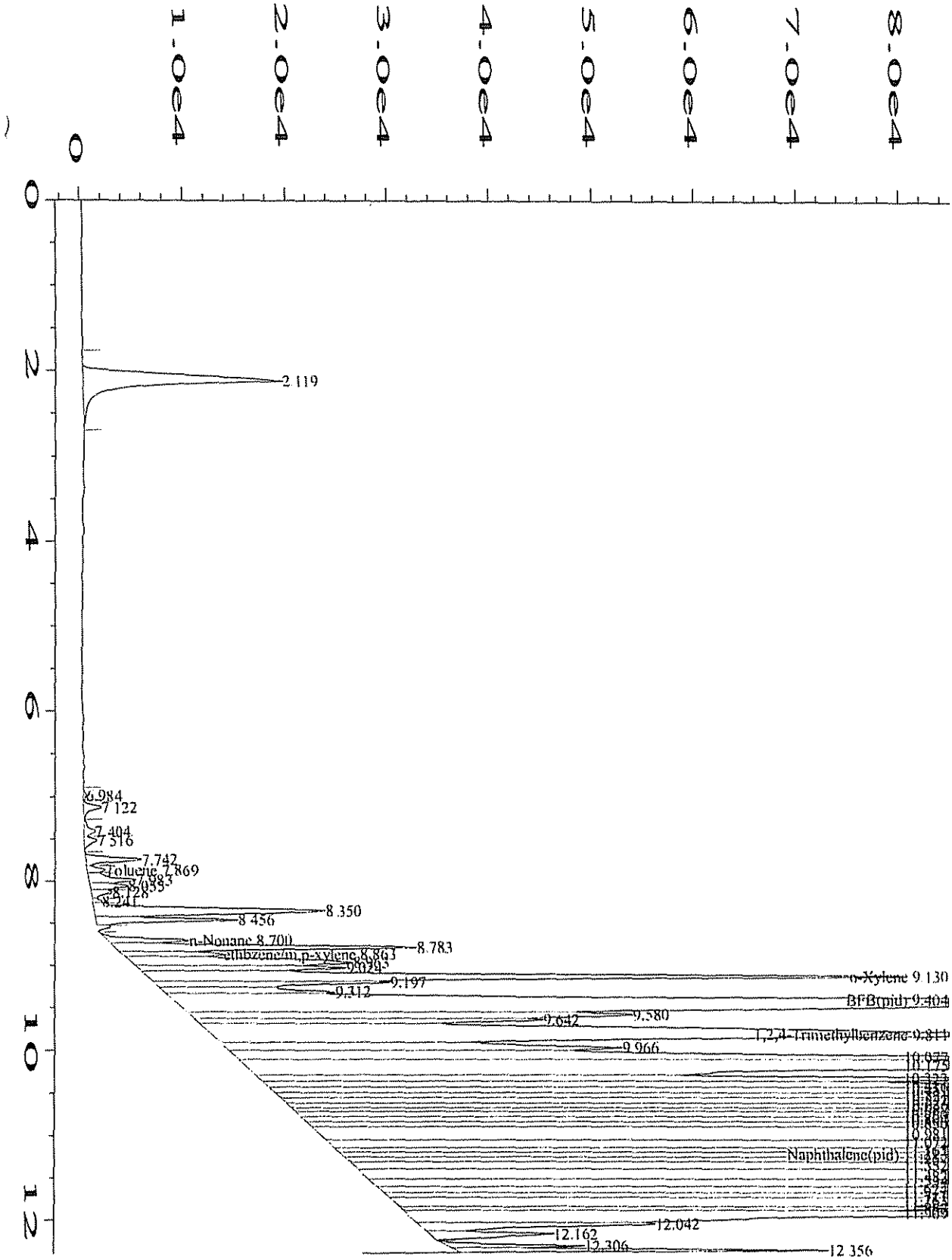
ata File Name : C:\HPCHEM\1\DATA\vp101105\022R0101.D
perator : DCS
nstrument : FID/PID
ample Name : g161-2180-1d x1
un Time Bar Code:
cquired on : 11 Oct 05 07:10 PM
eport Created on: 12 Oct 05 02:27 PM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 2
Vial Number : 22
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

10.760	319323	VV	0.049	3193.235	* uncalibrated *
10.804	515867	VV	0.044	5158.668	* uncalibrated *
10.850	337716	VV	0.038	3377.165	* uncalibrated *
10.981	1346303	VV	0.085	13463.03	* uncalibrated *
11.072	665696	VV	0.060	6656.965	* uncalibrated *
11.167	370884	VV	0.040	3708.837	* uncalibrated *
11.267	357113	VV	0.049	3571.127	* uncalibrated *
11.352	569386	VV	0.057	5693.863	* uncalibrated *
11.482	866373	VV	0.070	8663.729	* uncalibrated *
11.534	574360	VV	0.058	5743.600	* uncalibrated *
11.624	346676	VV	0.054	3466.760	* uncalibrated *
11.711	259161	VV	0.044	2591.608	* uncalibrated *
11.763	672736	VV	0.044	6727.360	* uncalibrated *
11.857	131630	VV	0.035	1316.301	* uncalibrated *
11.909	456568	VV	0.060	4565.682	* uncalibrated *
12.042	83373	VV	0.060	833.729	* uncalibrated *
12.162	45232	VV	0.052	452.316	* uncalibrated *
12.306	28747	PV	0.032	287.467	* uncalibrated *
12.356	74968	VBA	0.033	749.684	* uncalibrated *

Not all calibrated peaks were found

==========



Data File Name : C:\HPCHEM\1\DATA\vp101105\022R0101.D
Operator : DCS
Instrument : FID/PID
Sample Name : g161-2180-1d x1
Run Time Bar Code:
Acquired on : 11 Oct 05 07:10 PM
Report Created on: 12 Oct 05 02:27 PM
Last Recalib on : 24 AUG 04 09:09 AM
Multiplier : 1

Page Number : 1
Vial Number : 22
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp101105\024F0101.D
perator : DCS
nstrument : FID/PID
ample Name : g161-2180-2d x1
un Time Bar Code:
cquired on : 11 Oct 05 07:59 PM
eport Created on: 12 Oct 05 02:27 PM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

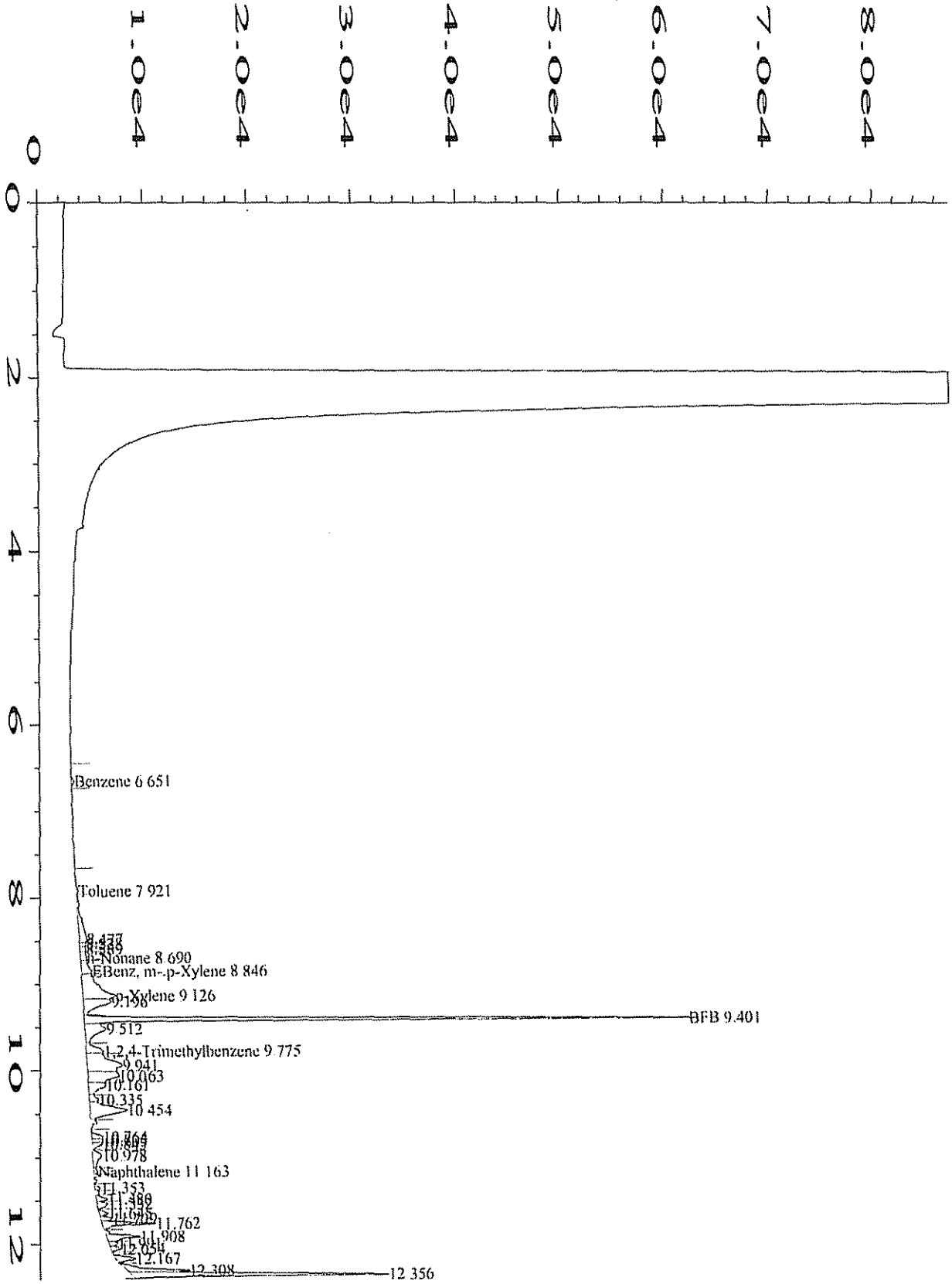
Page Number : 1
Vial Number : 24
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

mg 10/12

ig. 1 in C:\HPCHEM\1\DATA\vp101105\024F0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.778	* not found *			1		n-Pentane
3.864	* not found *			1		2-Methylpentane
4.282	* not found *			1		MTBE
6.310	* not found *			1		2,2,4-Trimethylpentane
6.651	1245	BB	0.065	1	0.158	Benzene
7.921	1181	BV	0.080	1	0.125	Toluene
8.690	3424	VV	0.074	1	0.859	n-Nonane
8.846	7151	VV	0.089	1	0.699	EBenz, m-,p-Xylene
9.126	31333	VV	0.125	1	3.111	o-Xylene
9.401	108954	VV	0.029	1	419.690	BFB
9.775	7845	VV	0.069	1	0.835	1,2,4-Trimethylbenzene
11.163	1190	VV	0.041	1	0.281	Naphthalene
8.477	11701	VV	0.210		117.011	* uncalibrated *
8.528	1716	VV	0.044		17.163	* uncalibrated *
8.589	1928	VV	0.046		19.280	* uncalibrated *
9.196	16524	VV	0.086		165.245	* uncalibrated *
9.512	15487	VV	0.098		154.875	* uncalibrated *
9.941	32122	VV	0.125		321.219	* uncalibrated *
10.063	17830	VV	0.077		178.300	* uncalibrated *
10.161	9307	VV	0.070		93.074	* uncalibrated *
10.335	3602	VV	0.057		36.017	* uncalibrated *
10.454	22540	VV	0.083		225.402	* uncalibrated *
10.764	3259	VV	0.044		32.590	* uncalibrated *
10.805	2635	VV	0.037		26.354	* uncalibrated *
10.845	2824	VV	0.041		28.245	* uncalibrated *
10.978	6218	VV	0.093		62.177	* uncalibrated *
11.353	1458	PV	0.038		14.582	* uncalibrated *
11.480	2881	VV	0.038		28.811	* uncalibrated *
11.532	3537	VV	0.048		35.369	* uncalibrated *
11.645	2099	PV	0.038		20.994	* uncalibrated *
11.709	2635	VV	0.038		26.349	* uncalibrated *
11.762	11016	VV	0.032		110.165	* uncalibrated *
11.908	8991	VV	0.039		89.914	* uncalibrated *
11.991	2164	VV	0.037		21.642	* uncalibrated *
12.054	2365	VV	0.040		23.646	* uncalibrated *
12.167	5699	VV	0.051		56.989	* uncalibrated *
12.308	14357	PV	0.034		143.568	* uncalibrated *
12.356	54560	VBA	0.034		545.604	* uncalibrated *

Calibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\vp101105\024F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 24
Sample Name	: g161-2180-2d x1	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 11 Oct 05 07:59 PM	Instrument Method:	GAS1.MTH
Report Created on:	12 Oct 05 02:27 PM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

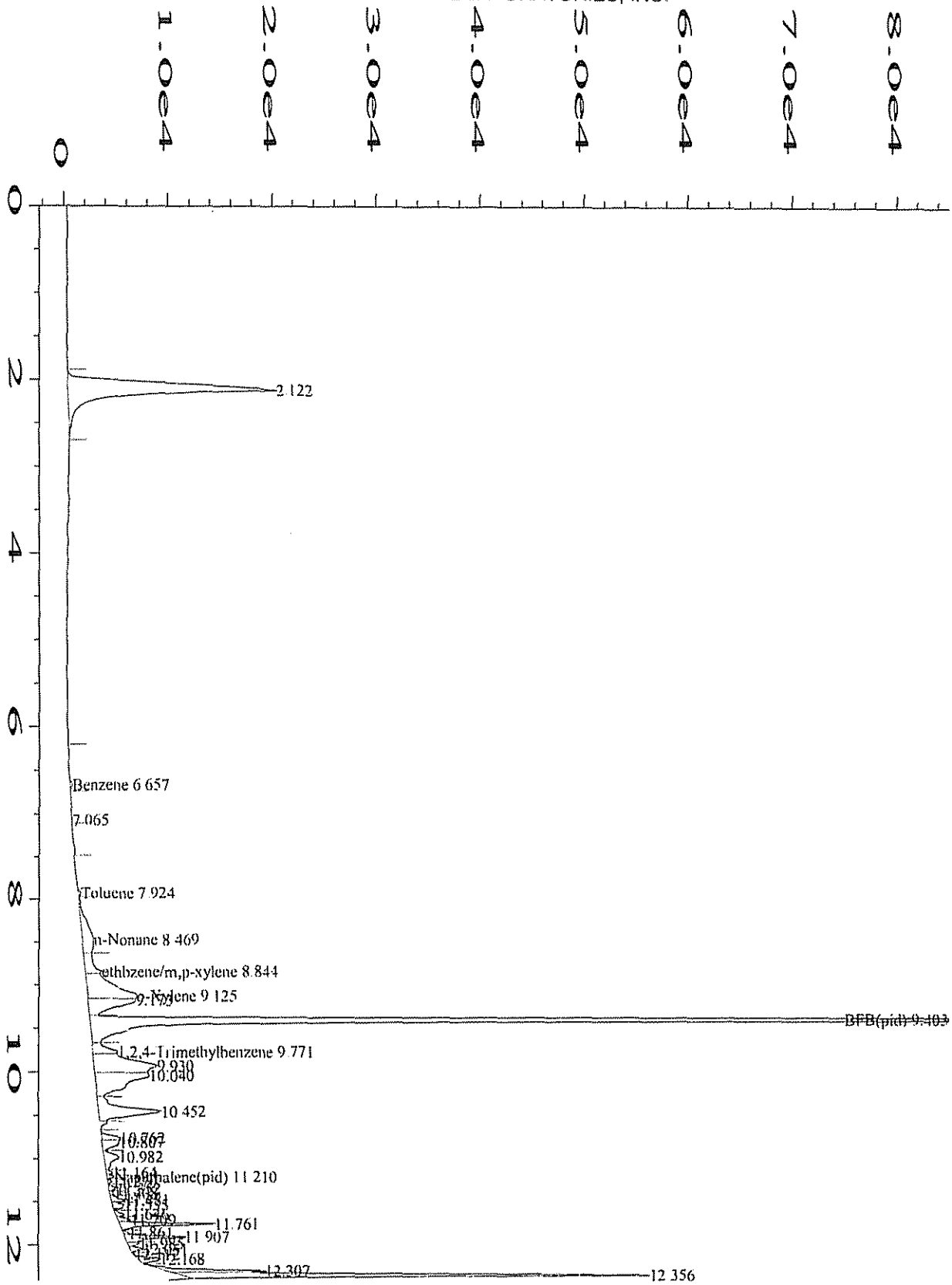
External Standard Report

ata File Name	: C:\HPCHEM\1\DATA\vp101105\024R0101.D		
perator	: DCS	Page Number	: 1
nstrument	: FID/PID	Vial Number	: 24
ample Name	: g161-2180-2d x1	Injection Number	: 1
un Time Bar Code	:	Sequence Line	: 1
cquired on	: 11 Oct 05 07:59 PM	Instrument Method	: GAS1.MTH
eport Created on	: 12 Oct 05 02:27 PM	Analysis Method	: vph_pid.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

ig. 2 in C:\HPCHEM\1\DATA\vp101105\024R0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.829	* not found *			1		n-Pentane
3.878	* not found *			1		2-Methylpentane
4.267	* not found *			1		MTBE
6.312	* not found *			1		2,2,4-Trimethylpentane
6.657	858	BV	0.056	1	0.0108	Benzene
7.924	487	PV	0.029	1	0.0119	Toluene
8.469	24247	VV	0.267	1	3.572	n-Nonane
8.844	14099	VV	0.112	1	0.417	ethbzene/m,p-xylene
9.125	50742	VV	0.134	1	1.310	o-Xylene
9.403	499889	VV	0.034	1	33.645	BFB(pid)
9.771	11702	VV	0.067	1	0.381	1,2,4-Trimethylbenzene
11.210	1380	VV	0.030	1	0.0788	Naphthalene(pid)
2.122	166778	BV	0.101		1667.779	* uncalibrated *
7.065	325	PV	0.071		3.254	* uncalibrated *
9.173	32111	VV	0.088		321.113	* uncalibrated *
9.930	56685	VV	0.117		566.846	* uncalibrated *
10.040	49604	VV	0.127		496.040	* uncalibrated *
10.452	41563	VV	0.094		415.633	* uncalibrated *
10.762	5883	PV	0.048		58.831	* uncalibrated *
10.807	8402	VV	0.065		84.024	* uncalibrated *
10.982	9760	VV	0.097		97.599	* uncalibrated *
11.164	1397	VV	0.036		13.966	* uncalibrated *
11.270	840	VV	0.033		8.395	* uncalibrated *
11.352	1959	PV	0.039		19.586	* uncalibrated *
11.408	811	VV	0.032		8.107	* uncalibrated *
11.481	3566	VV	0.038		35.664	* uncalibrated *
11.535	4068	VV	0.049		40.681	* uncalibrated *
11.646	2142	PV	0.038		21.420	* uncalibrated *
11.709	2933	VV	0.036		29.326	* uncalibrated *
11.761	19472	VV	0.032		194.716	* uncalibrated *
11.861	890	VV	0.030		8.900	* uncalibrated *
11.907	15394	VV	0.038		153.939	* uncalibrated *
11.985	2525	VV	0.038		25.246	* uncalibrated *
12.051	3212	VV	0.040		32.118	* uncalibrated *
12.112	200	PV	0.020		1.995	* uncalibrated *
12.168	6638	PV	0.053		66.379	* uncalibrated *
12.307	19307	PV	0.030		193.074	* uncalibrated *
12.356	102614	VBA	0.035		1026.138	* uncalibrated *

Not all calibrated peaks were found



Data File Name	: C:\HPCHEM\1\DATA\vp101105\024R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 24
Sample Name	: g161-2180-2d x1	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 11 Oct 05 07:59 PM	Instrument Method:	GAS1.MTH
Report Created on:	12 Oct 05 02:27 PM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp101105\023F0101.D
perator : DCS
nstrument : FID/PID
ample Name : g161-2180-3d x1
un Time Bar Code:
cquired on : 11 Oct 05 07:34 PM
eport Created on: 12 Oct 05 02:27 PM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 23
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

ig. 1 in C:\HPCHEM\1\DATA\vp101105\023F0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.778	* not found *			1		n-Pentane
3.864	* not found *			1		2-Methylpentane
4.282	* not found *			1		MTBE
6.310	* not found *			1		2,2,4-Trimethylpentane
6.600	* not found *			1		Benzene
7.926	* not found *			1		Toluene
8.684	* not found *			1		n-Nonane
8.849	1895	VV	0.056	1	0.185	EBenz, m-,p-Xylene
9.130	7560	VV	0.052	1	0.751	o-Xylene
9.401	110012	PV	0.029	1	423.765	BFB
9.771	8219	VV	0.061	1	0.875	1,2,4-Trimethylbenzene
11.212	4915	VV	0.031	1	1.160	Naphthalene
8.381	1538	BV	0.059		15.380	* uncalibrated *
8.458	1103	VB	0.049		11.030	* uncalibrated *
8.793	1596	VV	0.050		15.965	* uncalibrated *
8.930	2164	VV	0.050		21.645	* uncalibrated *
9.022	1895	VV	0.054		18.954	* uncalibrated *
9.202	2307	VV	0.041		23.075	* uncalibrated *
9.513	8816	VV	0.064		88.155	* uncalibrated *
9.644	1526	VV	0.040		15.259	* uncalibrated *
9.815	6270	VV	0.046		62.700	* uncalibrated *
9.966	1045	PV	0.047		10.449	* uncalibrated *
10.075	7605	VV	0.053		76.052	* uncalibrated *
10.169	9008	VV	0.076		90.077	* uncalibrated *
10.330	5464	VV	0.056		54.641	* uncalibrated *
10.411	9374	VV	0.060		93.741	* uncalibrated *
10.524	1620	VV	0.035		16.205	* uncalibrated *
10.590	5832	VV	0.050		58.323	* uncalibrated *
10.641	3519	VV	0.043		35.188	* uncalibrated *
10.757	1753	PV	0.031		17.529	* uncalibrated *
10.806	4909	VV	0.038		49.085	* uncalibrated *
10.847	1746	VV	0.029		17.464	* uncalibrated *
10.970	9921	VV	0.066		99.206	* uncalibrated *
11.075	4038	VV	0.049		40.380	* uncalibrated *
11.164	3309	VV	0.037		33.089	* uncalibrated *
11.269	1635	VV	0.032		16.346	* uncalibrated *
11.353	6518	PV	0.036		65.178	* uncalibrated *
11.482	21129	VV	0.045		211.292	* uncalibrated *
11.534	16610	VV	0.047		166.097	* uncalibrated *
11.644	9654	PV	0.037		96.544	* uncalibrated *
11.711	13770	VV	0.036		137.705	* uncalibrated *

ata File Name : C:\HPCHEM\1\DATA\vp101105\023F0101.D
perator : DCS
nstrument : FID/PID
ample Name : g161-2180-3d x1
un Time Bar Code:
cquired on : 11 Oct 05 07:34 PM
eport Created on: 12 Oct 05 02:27 PM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 2
Vial Number : 23
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

11.762	74228	VV	0.032	742.283	* uncalibrated *
11.908	71811	VV	0.043	718.107	* uncalibrated *
11.989	9661	VV	0.035	96.606	* uncalibrated *
12.054	12675	VV	0.044	126.749	* uncalibrated *
12.110	1630	VV	0.024	16.300	* uncalibrated *
12.165	24199	VV	0.046	241.987	* uncalibrated *
12.308	43272	PV	0.034	432.720	* uncalibrated *
12.356	128290	VBA	0.033	1282.902	* uncalibrated *

:alibration table contains at least one peak with amt = 0

Not all calibrated peaks were found

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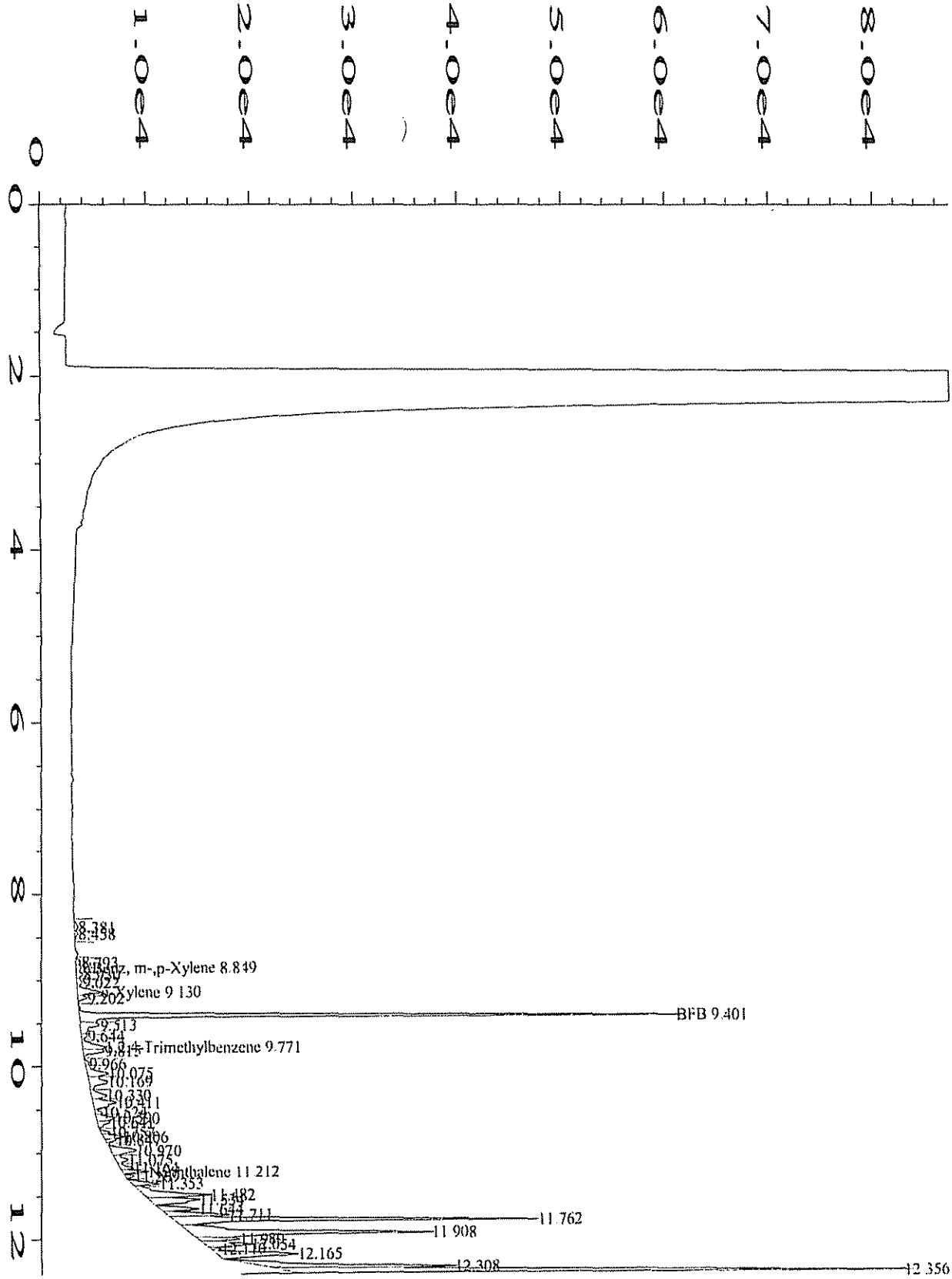

Data File Name	: C:\HPCHEM\1\DATA\vp101105\023F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 23
Sample Name	: g161-2180-3d x1	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 11 Oct 05 07:34 PM	Instrument Method	: GAS1.MTH
Report Created on	: 12 Oct 05 02:27 PM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp101105\023R0101.D
perator : DCS
nstrument : FID/PID
ample Name : g161-2180-3d x1
un Time Bar Code:
cquired on : 11 Oct 05 07:34 PM
eport Created on: 12 Oct 05 02:27 PM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 23
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

ig. 2 in C:\HPCHEM\1\DATA\vp101105\023R0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.829	* not found *			1		n-Pentane
3.878	* not found *			1		2-Methylpentane
4.267	* not found *			1		MTBE
6.312	* not found *			1		2,2,4-Trimethylpentane
6.603	* not found *			1		Benzene
7.927	824	PB	0.069	1	0.0202	Toluene
8.686	* not found *			1		n-Nonane
8.845	1803	VV	0.045	1	0.0533	ethbzene/m,p-xylene
9.129	6110	VV	0.055	1	0.158	o-Xylene
9.403	477418	PV	0.033	1	32.132	BFB(pid)
9.771	6048	VV	0.052	1	0.197	1,2,4-Trimethylbenzene
11.211	7522	VV	0.031	1	0.430	Naphthalene(pid)
2.115	154573	BV	0.102		1545.733	* uncalibrated *
8.384	1060	PV	0.063		10.596	* uncalibrated *
8.461	778	VB	0.051		7.781	* uncalibrated *
8.794	1247	VV	0.045		12.469	* uncalibrated *
8.933	1170	VV	0.047		11.695	* uncalibrated *
9.027	1617	VV	0.053		16.170	* uncalibrated *
9.202	1543	VV	0.042		15.430	* uncalibrated *
9.643	1351	VV	0.037		13.507	* uncalibrated *
9.812	6727	VV	0.049		67.267	* uncalibrated *
9.964	1584	PV	0.046		15.839	* uncalibrated *
10.076	7450	VV	0.052		74.505	* uncalibrated *
10.176	10359	VV	0.072		103.594	* uncalibrated *
10.329	3450	VV	0.052		34.496	* uncalibrated *
10.414	5563	VV	0.037		55.632	* uncalibrated *
10.449	4156	VV	0.031		41.559	* uncalibrated *
10.525	2525	VV	0.035		25.247	* uncalibrated *
10.583	6320	VV	0.048		63.198	* uncalibrated *
10.642	2380	VV	0.034		23.800	* uncalibrated *
10.683	746	VV	0.023		7.456	* uncalibrated *
10.758	2120	PV	0.033		21.201	* uncalibrated *
10.807	8619	VV	0.050		86.187	* uncalibrated *
10.972	13742	PV	0.068		137.416	* uncalibrated *
11.076	6149	VV	0.055		61.487	* uncalibrated *
11.165	3997	VV	0.033		39.967	* uncalibrated *
11.270	2324	VV	0.032		23.235	* uncalibrated *
11.353	9356	PV	0.036		93.560	* uncalibrated *
11.482	28661	VV	0.044		286.608	* uncalibrated *
11.533	21609	VV	0.048		216.089	* uncalibrated *
11.644	9806	PV	0.036		98.063	* uncalibrated *

ata File Name : C:\HPCHEM\1\DATA\vp101105\023R0101.D
perator : DCS
nstrument : FID/PID
ample Name : g161-2180-3d x1
un Time Bar Code:
cquired on : 11 Oct 05 07:34 PM
eport Created on: 12 Oct 05 02:27 PM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 2
Vial Number : 23
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

11.711	15168	VV	0.034	151.678	* uncalibrated *
11.761	137524	VV	0.032	1375.240	* uncalibrated *
11.907	118338	VV	0.040	1183.381	* uncalibrated *
11.983	11759	VV	0.036	117.593	* uncalibrated *
12.051	15470	VV	0.041	154.699	* uncalibrated *
12.110	1251	VV	0.021	12.511	* uncalibrated *
12.166	27977	VV	0.048	279.773	* uncalibrated *
12.307	56561	PV	0.030	565.608	* uncalibrated *
12.356	237572	VBA	0.034	2375.723	* uncalibrated *

Not all calibrated peaks were found

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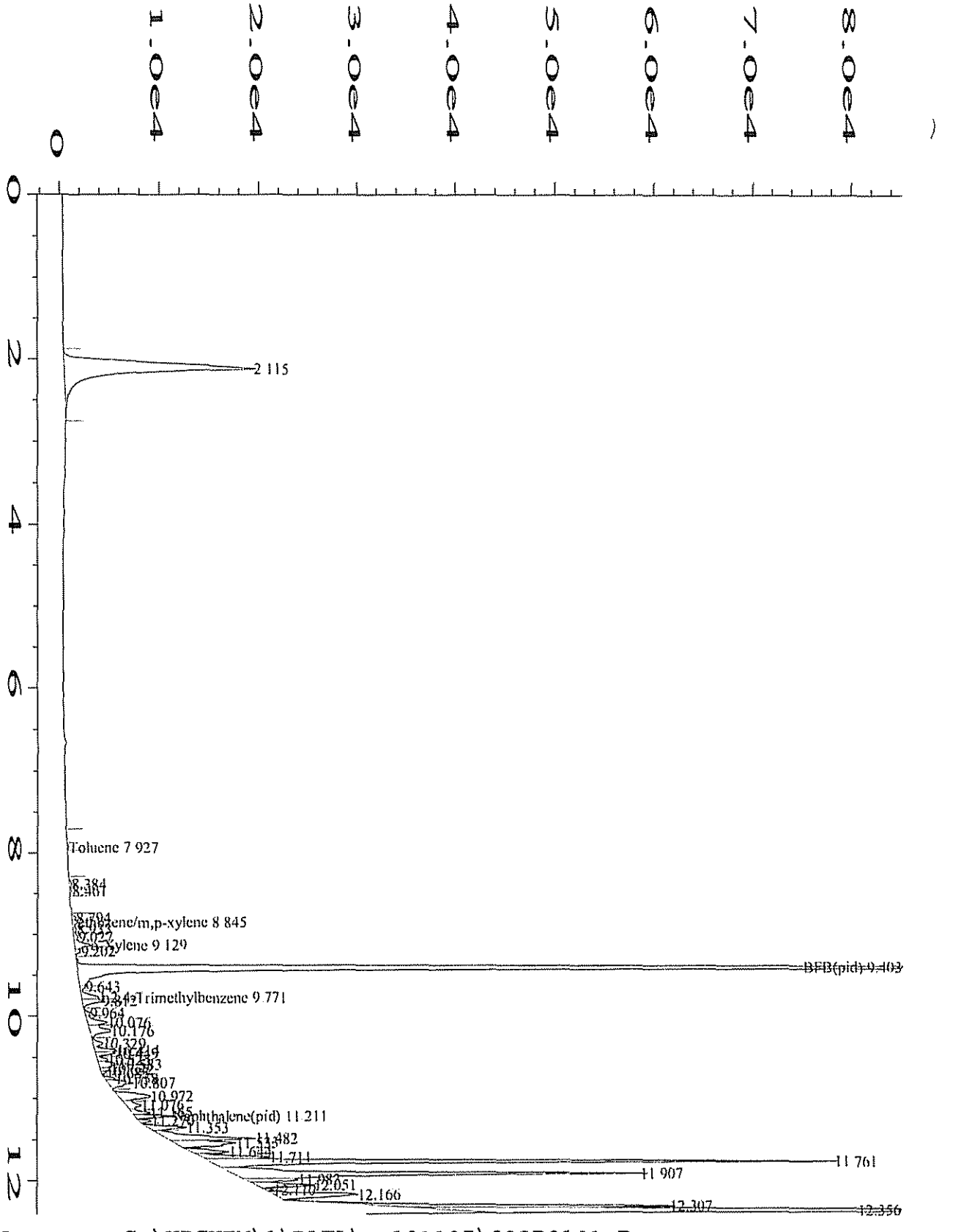


Data File Name	: C:\HPCHEM\1\DATA\vp101105\023R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 23
Sample Name	: g161-2180-3d x1	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 11 Oct 05 07:34 PM	Instrument Method	: GAS1.MTH
Report Created on	: 12 Oct 05 02:27 PM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp100705\025F0101.D
perator : DCS
nstrument : FID/PID
ample Name : g161-2180-5d x1
un Time Bar Code:
cquired on : 07 Oct 05 10:04 PM
eport Created on: 10 Oct 05 10:45 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 25
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

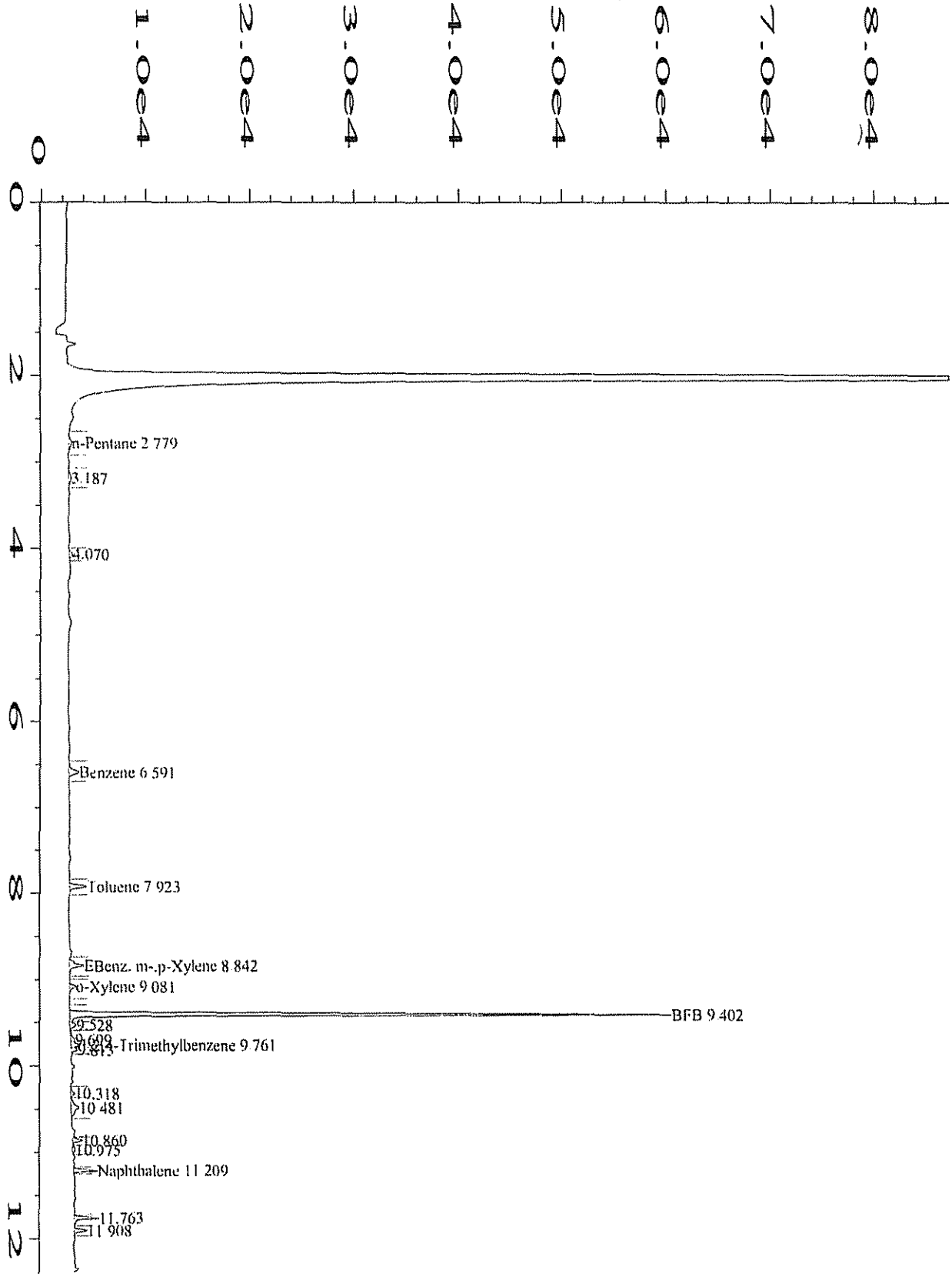
mgL 10/10

ig. 1 in C:\HPCHEM\1\DATA\vp100705\025F0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.779	1480	BV	0.075	1	1.477	n-Pentane
3.864	* not found *			1		2-Methylpentane
4.282	* not found *			1		MTBE
6.310	* not found *			1		2,2,4-Trimethylpentane
6.591	3895	BB	0.058	1	0.494	Benzene
7.923	4049	BB	0.038	1	0.430	Toluene
8.684	* not found *			1		n-Nonane
8.842	4401	VB	0.045	1	0.430	EBenz, m-,p-Xylene
9.081	1693	BB	0.041	1	0.168	o-Xylene
9.402	105317	BV	0.028	1	405.680	BFB
9.761	2237	VV	0.037	1	0.238	1,2,4-Trimethylbenzene
11.209	3745	VV	0.026	1	0.884	Naphthalene
3.187	1697	VV	0.086		16.971	* uncalibrated *
4.070	1331	BV	0.059		13.312	* uncalibrated *
9.528	1962	VV	0.046		19.624	* uncalibrated *
9.699	1504	VV	0.054		15.036	* uncalibrated *
9.813	1397	VV	0.036		13.973	* uncalibrated *
10.318	1282	PV	0.046		12.817	* uncalibrated *
10.481	4400	VV	0.074		43.998	* uncalibrated *
10.860	2154	VV	0.035		21.538	* uncalibrated *
10.975	1069	VV	0.050		10.693	* uncalibrated *
11.763	4738	VV	0.030		47.382	* uncalibrated *
11.908	2557	VV	0.032		25.572	* uncalibrated *

Calibration table contains at least one peak with amt = 0

Not all calibrated peaks were found



Data File Name	: C:\HPCHEM\1\DATA\vp100705\025F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 25
Sample Name	: g161-2180-5d x1	Injection Number	: 1
Run Time Bar Code	:	Sequence Line	: 1
Acquired on	: 07 Oct 05 10:04 PM	Instrument Method	: GAS1.MTH
Report Created on	: 10 Oct 05 10:45 AM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

External Standard Report

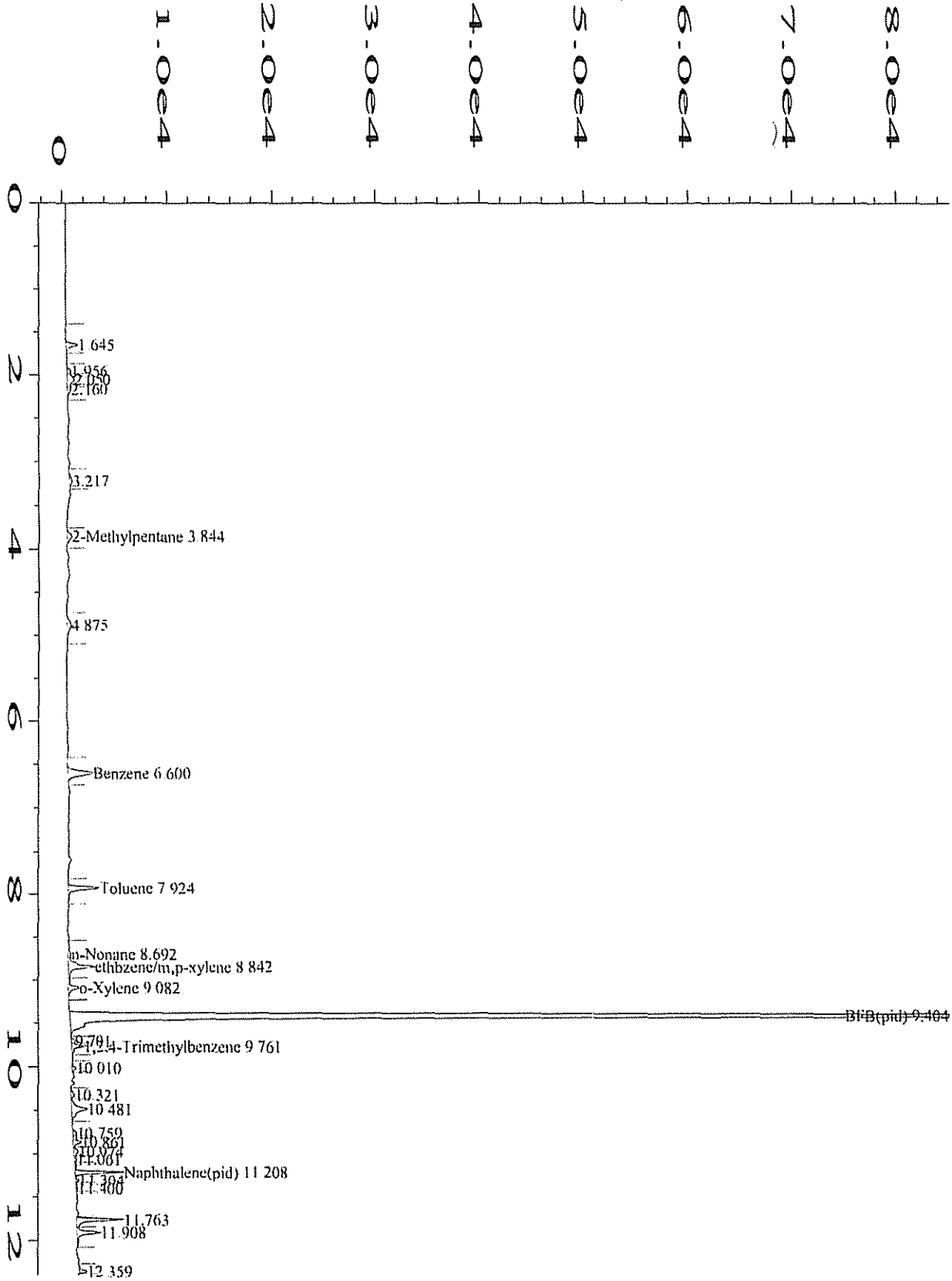
ata File Name : C:\HPCHEM\1\DATA\vp100705\025R0101.D
perator : DCS
nstrument : FID/PID
ample Name : g161-2180-5d x1
un Time Bar Code:
cquired on : 07 Oct 05 10:04 PM
eport Created on: 10 Oct 05 10:45 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 25
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

ig. 2 in C:\HPCHEM\1\DATA\vp100705\025R0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.829	* not found *			1		n-Pentane
3.844	2372	BV	0.080	1	0.251	2-Methylpentane
4.267	* not found *			1		MTBE
6.312	* not found *			1		2,2,4-Trimethylpentane
6.600	9597	BV	0.063	1	0.121	Benzene
7.924	8080	BV	0.042	1	0.198	Toluene
8.692	1911	VV	0.088	1	0.282	n-Nonane
8.842	9643	VV	0.053	1	0.285	ethbzene/m,p-xylene
9.082	3930	VB	0.053	1	0.101	o-Xylene
9.404	468639	BV	0.034	1	31.542	BFB(pid)
9.761	3070	VV	0.040	1	0.100	1,2,4-Trimethylbenzene
11.208	8655	VV	0.029	1	0.495	Naphthalene(pid)
1.645	3200	BV	0.041		32.000	* uncalibrated *
1.956	1181	BV	0.050		11.807	* uncalibrated *
2.050	4129	VV	0.086		41.286	* uncalibrated *
2.160	1469	VB	0.067		14.692	* uncalibrated *
3.217	1600	PV	0.077		16.003	* uncalibrated *
4.875	3432	BB	0.114		34.324	* uncalibrated *
9.701	1091	VV	0.050		10.908	* uncalibrated *
10.010	1099	BV	0.040		10.994	* uncalibrated *
10.321	1280	PV	0.047		12.797	* uncalibrated *
10.481	7075	VV	0.063		70.753	* uncalibrated *
10.759	1037	PV	0.041		10.366	* uncalibrated *
10.861	2803	VV	0.051		28.026	* uncalibrated *
10.974	1663	VV	0.060		16.625	* uncalibrated *
11.061	633	VV	0.047		6.329	* uncalibrated *
11.304	642	VV	0.032		6.419	* uncalibrated *
11.400	490	VV	0.060		4.900	* uncalibrated *
11.763	9432	VV	0.032		94.317	* uncalibrated *
11.908	6084	VB	0.039		60.841	* uncalibrated *
12.359	1424	PBA	0.033		14.239	* uncalibrated *

Not all calibrated peaks were found



Data File Name	: C:\HPCHEM\1\DATA\vp100705\025R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 25
Sample Name	: g161-2180-5d x1	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 07 Oct 05 10:04 PM	Instrument Method:	GAS1.MTH
Report Created on:	10 Oct 05 10:45 AM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

VPH Calibration Raw Data

External Standard Report

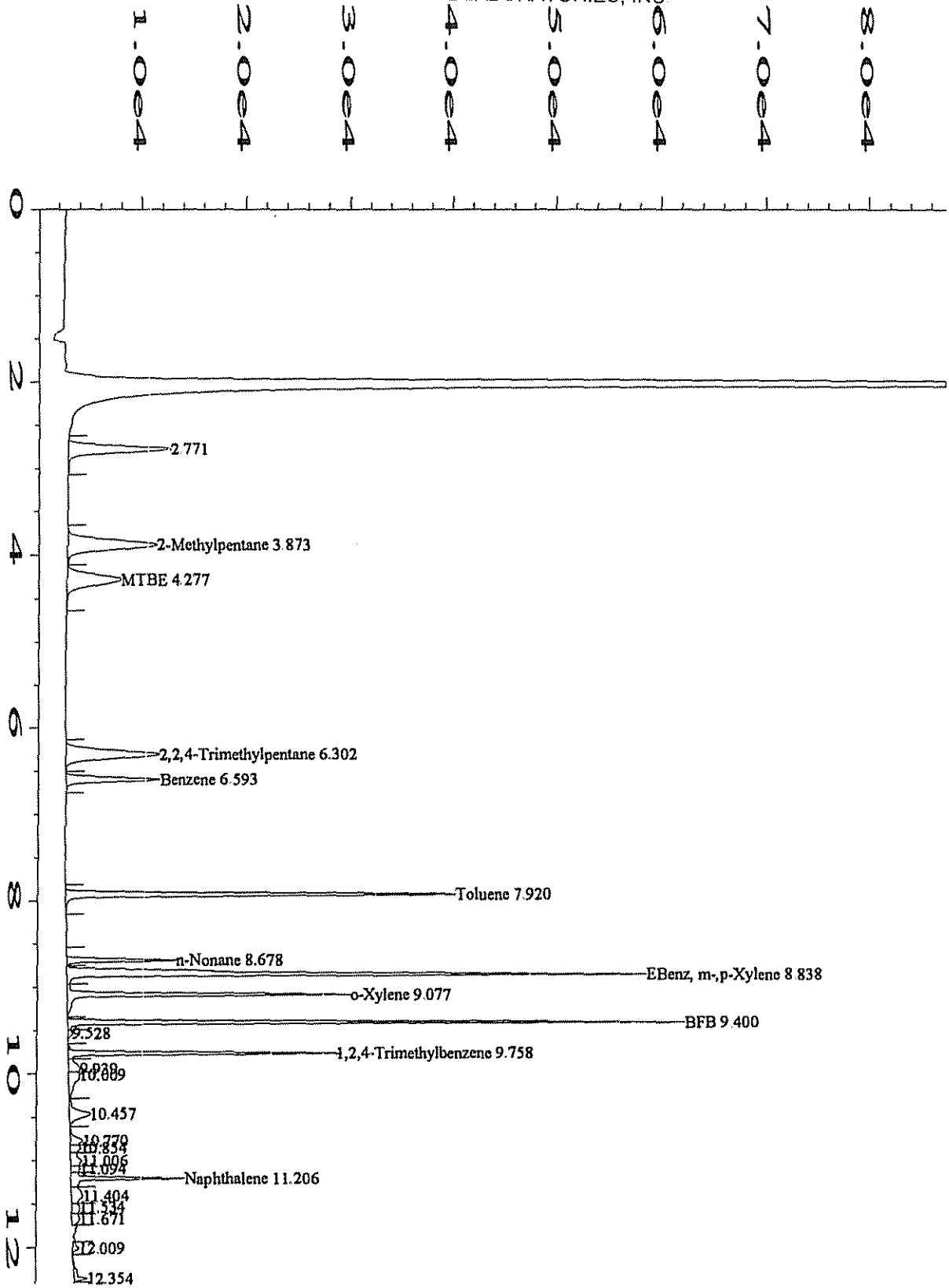
Data File Name	: C:\HPCHEM\1\DATA\vp092705\004F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 4
Sample Name	: V 10	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 27 Sep 05 10:53 AM	Instrument Method	: GAS1.MTH
Report Created on	: 09 Nov 05 09:52 AM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Sig. 1 in C:\HPCHEM\1\DATA\vp092705\004F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
2.849	* not found *			1		n-Pentane
3.873	65105	BV	0.114	1	11.564	2-Methylpentane
4.277	44438	VB	0.132	1	104.170	MTBE
6.302	59204	BV	0.103	1	11.372	2,2,4-Trimethylpentane
6.593	32321	VV	0.056	1	4.096	Benzene
7.920	92185	BB	0.039	1	9.786	Toluene
8.678	23276	BV	0.035	1	5.840	n-Nonane
8.838	144282	VV	0.038	1	14.104	EBenz, m-,p-Xylene
9.077	63629	VV	0.036	1	6.317	o-Xylene
9.400	107096	PV	0.029	1	412.533	BFB
9.758	51995	VV	0.031	1	5.534	1,2,4-Trimethylbenzene
11.206	23723	VV	0.032	1	5.598	Naphthalene
2.771	54171	BB	0.085		541.708	* uncalibrated *
9.528	1993	VV	0.070		19.931	* uncalibrated *
9.939	7211	VV	0.089		72.107	* uncalibrated *
10.009	10488	VV	0.128		104.879	* uncalibrated *
10.457	12946	VV	0.095		129.462	* uncalibrated *
10.770	6440	VV	0.080		64.398	* uncalibrated *
10.854	4617	VV	0.064		46.174	* uncalibrated *
11.006	7517	VV	0.093		75.168	* uncalibrated *
11.094	3679	VV	0.062		36.790	* uncalibrated *
11.404	9906	VV	0.122		99.063	* uncalibrated *
11.534	4630	VV	0.093		46.302	* uncalibrated *
11.671	4697	VV	0.092		46.967	* uncalibrated *
12.009	2538	VV	0.054		25.379	* uncalibrated *
12.354	4853	PBA	0.055		48.529	* uncalibrated *

Calibration table contains at least one peak with amt = 0

Not all calibrated peaks were found



Data File Name	: C:\HPCHEM\1\DATA\vp092705\004F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 4
Sample Name	: V 10	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 27 Sep 05 10:53 AM	Instrument Method:	GAS1.MTH
Report Created on:	09 Nov 05 09:52 AM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

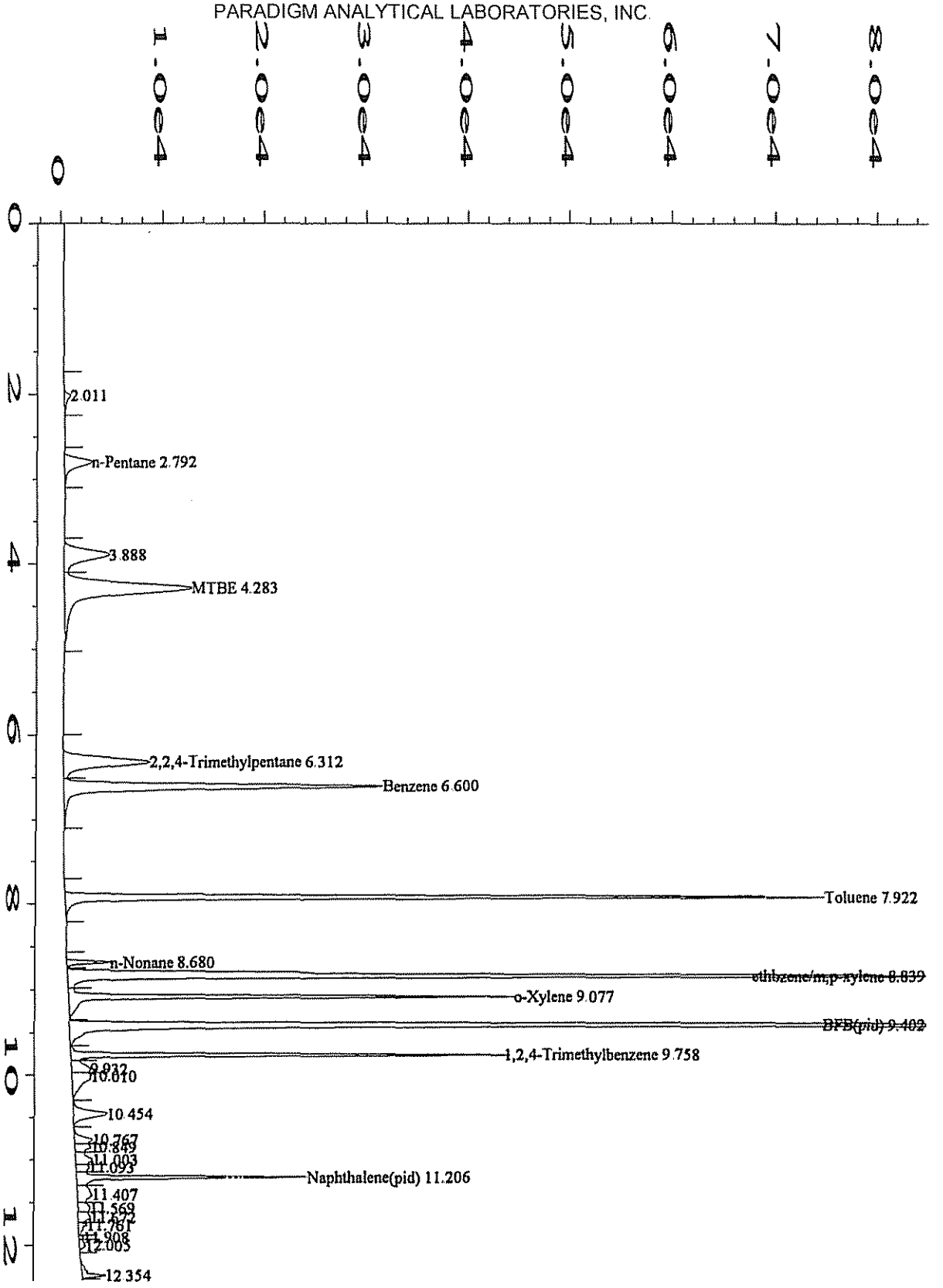
External Standard Report

Data File Name	: C:\HPCHEM\1\DATA\vp092705\004R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 4
Sample Name	: V 10	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 27 Sep 05 10:53 AM	Instrument Method:	GAS1.MTH
Report Created on:	09 Nov 05 09:52 AM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Sig. 2 in C:\HPCHEM\1\DATA\vp092705\004R0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
2.792	20072	BV	0.110	1	3.201	n-Pentane
4.010	* not found *			1		2-Methylpentane
4.283	122184	VB	0.141	1	4.053	MTBE
6.312	62785	BV	0.115	1	4.126	2,2,4-Trimethylpentane
6.600	139888	VB	0.068	1	1.758	Benzene
7.922	195900	BB	0.041	1	4.801	Toluene
8.680	9730	BV	0.036	1	1.434	n-Nonane
8.839	282081	VV	0.040	1	8.339	ethbzene/m,p-xylene
9.077	107665	VV	0.038	1	2.780	o-Xylene
9.402	498353	VV	0.034	1	33.541	BFB(pid)
9.758	89325	VV	0.032	1	2.909	1,2,4-Trimethylbenzene
11.206	47529	VV	0.032	1	2.716	Naphthalene(pid)
2.011	4059	BB	0.091		40.588	* uncalibrated *
3.888	39858	BV	0.127		398.582	* uncalibrated *
9.932	12843	VV	0.114		128.433	* uncalibrated *
10.010	17719	VV	0.121		177.194	* uncalibrated *
10.454	19826	VV	0.091		198.265	* uncalibrated *
10.767	8827	PV	0.072		88.269	* uncalibrated *
10.849	7690	VV	0.070		76.896	* uncalibrated *
11.003	10923	VV	0.090		109.228	* uncalibrated *
11.093	6081	VV	0.068		60.812	* uncalibrated *
11.407	13239	VV	0.122		132.389	* uncalibrated *
11.569	7022	VV	0.081		70.219	* uncalibrated *
11.672	7306	VV	0.094		73.060	* uncalibrated *
11.761	3679	VV	0.056		36.793	* uncalibrated *
11.908	1124	VV	0.035		11.238	* uncalibrated *
12.005	2976	VV	0.069		29.759	* uncalibrated *
12.354	7538	PBA	0.048		75.378	* uncalibrated *

Not all calibrated peaks were found



Data File Name	: C:\HPCHEM\1\DATA\vp092705\004R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 4
Sample Name	: V 10	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 27 Sep 05 10:53 AM	Instrument Method:	GAS1.MTH
Report Created on:	09 Nov 05 09:52 AM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

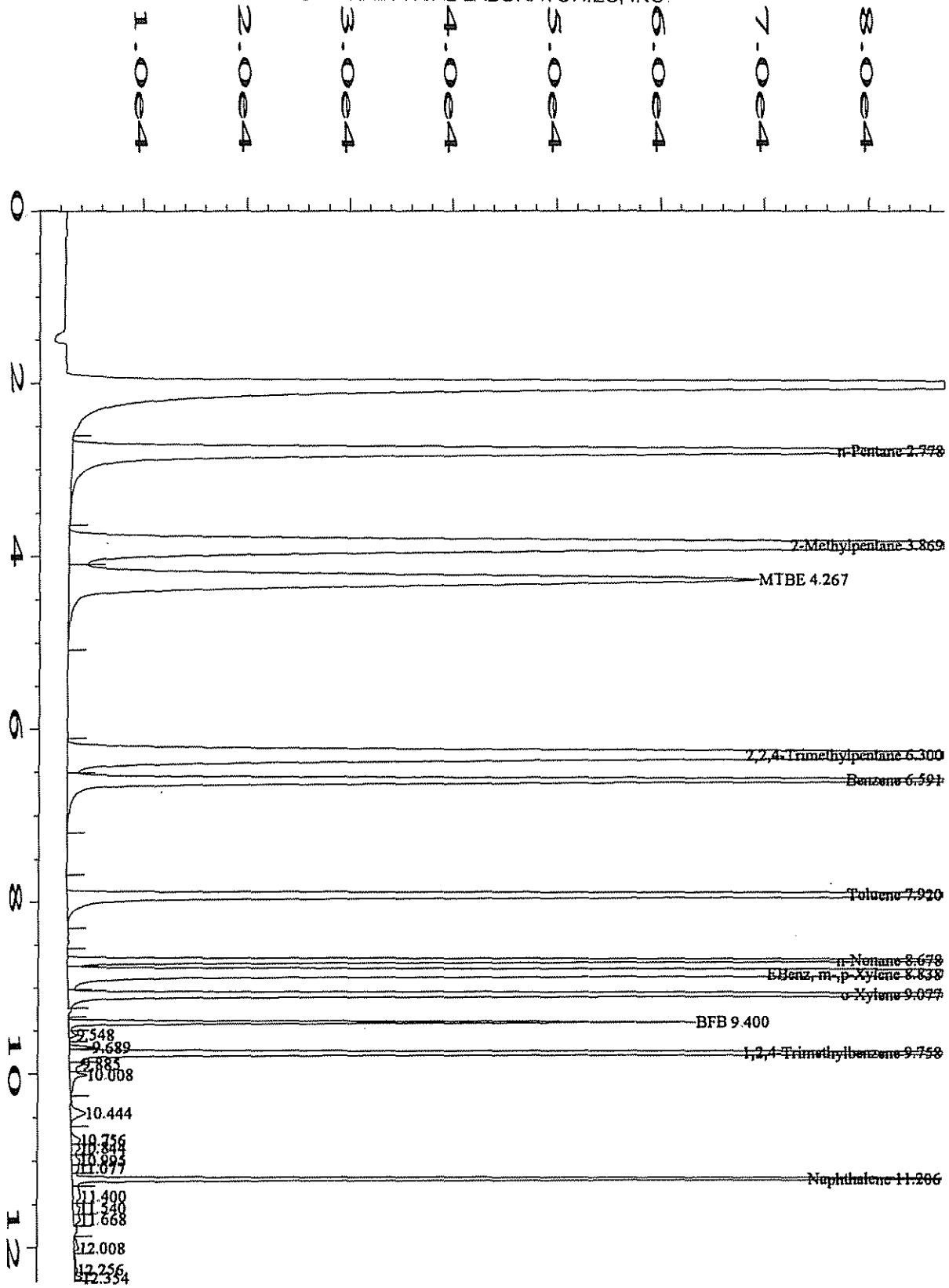
External Standard Report

Data File Name	: C:\HPCHEM\1\DATA\vp092705\005F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 5
Sample Name	: V 250	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 27 Sep 05 11:18 AM	Instrument Method:	GAS1.MTH
Report Created on:	09 Nov 05 09:52 AM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Sig. 1 in C:\HPCHEM\1\DATA\vp092705\005F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
2.778	636581	BB	0.091	1	1078.548	n-Pentane
3.869	935933	BV	0.120	1	1094.521	2-Methylpentane
4.267	585280	VB	0.136	1	11814.98	MTBE
6.300	911610	VV	0.103	1	1799.061	2,2,4-Trimethylpentane
6.591	453398	VB	0.057	1	334.944	Benzene
7.920	1283755	BV	0.039	1	1032.780	Toluene
8.678	385638	BV	0.035	1	424.722	n-Nonane
8.838	2026007	VV	0.038	1	1627.037	EBenz, m-,p-Xylene
9.077	797208	VV	0.033	1	644.315	o-Xylene
9.400	109476	VV	0.029	1	421.701	BFB
9.758	744439	VV	0.031	1	676.928	1,2,4-Trimethylbenzene
11.206	239675	VV	0.027	1	-747.401	Naphthalene
9.548	2446	VV	0.046		24.462	* uncalibrated *
9.689	4504	PV	0.033		45.036	* uncalibrated *
9.885	5440	VV	0.056		54.402	* uncalibrated *
10.008	7911	VV	0.063		79.108	* uncalibrated *
10.444	9003	VV	0.082		90.026	* uncalibrated *
10.756	4327	PV	0.075		43.273	* uncalibrated *
10.844	4478	VV	0.077		44.778	* uncalibrated *
10.995	4521	VV	0.081		45.211	* uncalibrated *
11.077	3313	VV	0.074		33.131	* uncalibrated *
11.400	6763	VV	0.122		67.628	* uncalibrated *
11.540	4270	VV	0.093		42.699	* uncalibrated *
11.668	3814	VV	0.087		38.139	* uncalibrated *
12.008	2601	VV	0.071		26.008	* uncalibrated *
12.256	1758	PV	0.094		17.577	* uncalibrated *
12.354	1972	VBA	0.040		19.718	* uncalibrated *

Calibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\vp092705\005F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 5
Sample Name	: V 250	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 27 Sep 05 11:18 AM	Instrument Method:	GAS1.MTH
Report Created on:	09 Nov 05 09:52 AM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

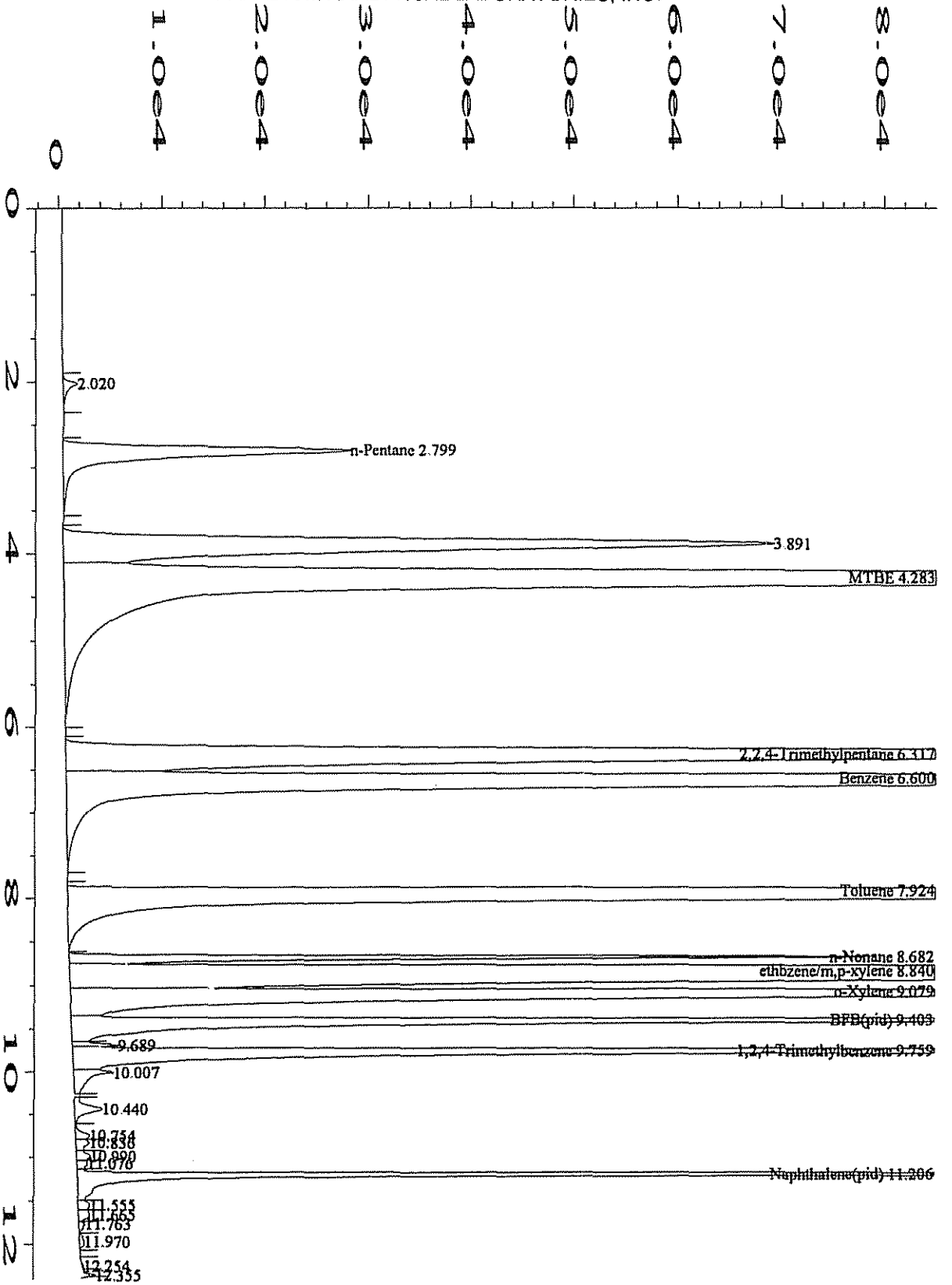
External Standard Report

Data File Name	: C:\HPCHEM\1\DATA\vp092705\005R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 5
Sample Name	: V 250	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 27 Sep 05 11:18 AM	Instrument Method:	GAS1.MTH
Report Created on:	09 Nov 05 09:52 AM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Sig. 2 in C:\HPCHEM\1\DATA\vp092705\005R0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
2.799	237825	BB	0.125	1	37.924	n-Pentane
4.010	* not found *			1		2-Methylpentane
4.283	2233547	VV	0.157	1	74.099	MTBE
6.317	1271470	PV	0.127	1	83.564	2,2,4-Trimethylpentane
6.600	2453784	VV	0.080	1	30.841	Benzene
7.924	4060356	BV	0.051	1	99.509	Toluene
8.682	217363	PV	0.043	1	32.025	n-Nonane
8.840	5383230	VV	0.056	1	159.149	ethbzene/m,p-xylene
9.079	1932071	VV	0.049	1	49.881	o-Xylene
9.403	723595	VV	0.041	1	48.701	BFB(pid)
9.759	1489564	VV	0.038	1	48.516	1,2,4-Trimethylbenzene
11.206	578058	VV	0.080	1	33.026	Naphthalene(pid)
2.020	9003	BB	0.087		90.025	* uncalibrated *
3.891	659977	BV	0.145		6599.769	* uncalibrated *
9.689	10529	VV	0.039		105.294	* uncalibrated *
10.007	26411	VV	0.103		264.108	* uncalibrated *
10.440	18491	VV	0.095		184.909	* uncalibrated *
10.754	7381	VV	0.079		73.809	* uncalibrated *
10.836	7378	VV	0.081		73.776	* uncalibrated *
10.990	7504	VV	0.083		75.040	* uncalibrated *
11.076	5197	VV	0.074		51.974	* uncalibrated *
11.555	6635	VV	0.087		66.350	* uncalibrated *
11.665	6933	VV	0.093		69.327	* uncalibrated *
11.763	2928	VV	0.067		29.278	* uncalibrated *
11.970	3675	VV	0.114		36.752	* uncalibrated *
12.254	362	PV	0.044		3.617	* uncalibrated *
12.355	422	PBA	0.011		4.219	* uncalibrated *

Not all calibrated peaks were found



Data File Name	: C:\HPCHEM\1\DATA\vp092705\005R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 5
Sample Name	: V 250	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 27 Sep 05 11:18 AM	Instrument Method	: GAS1.MTH
Report Created on	: 09 Nov 05 09:52 AM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

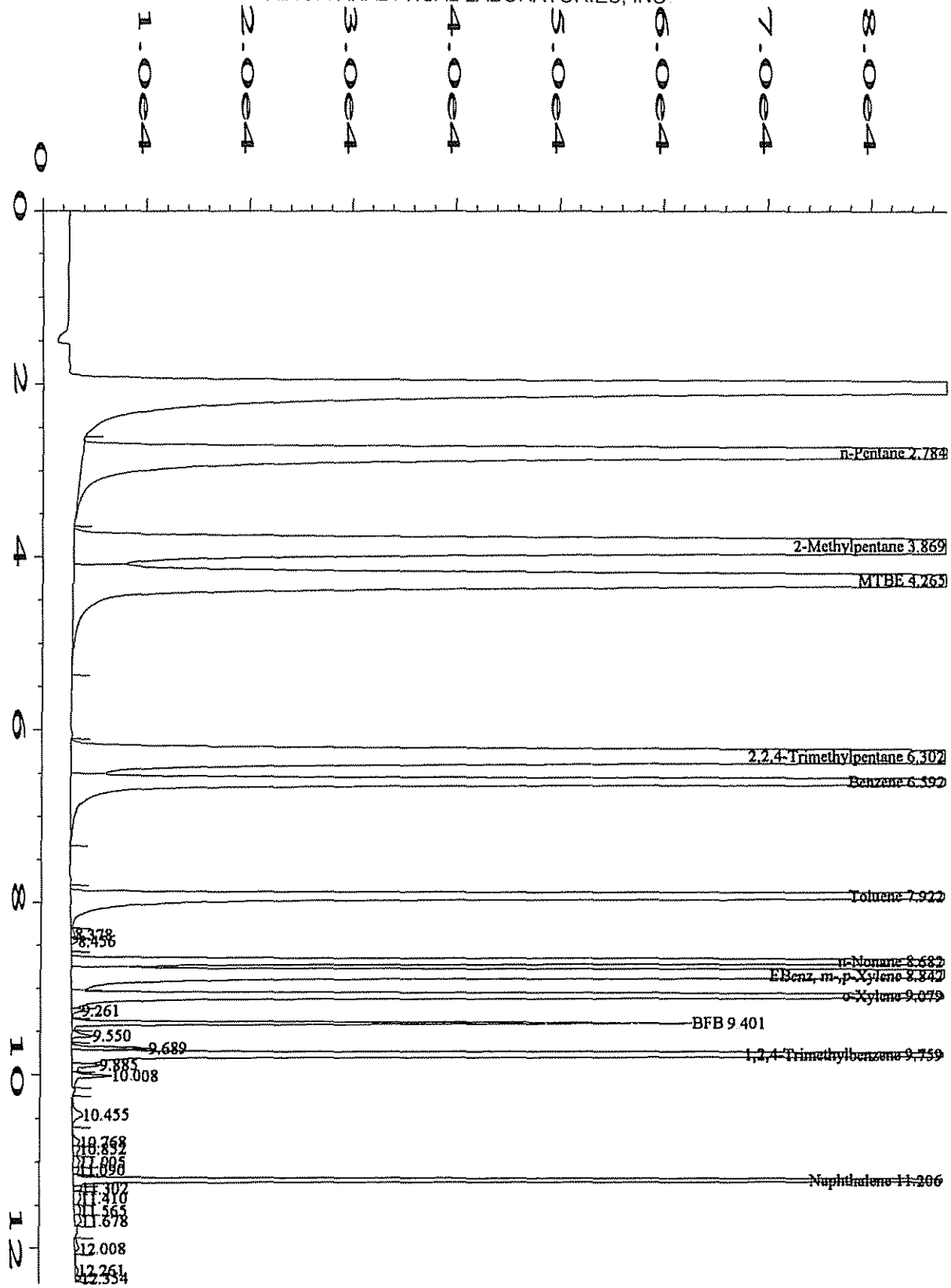
External Standard Report

Data File Name	: C:\HPCHEM\1\DATA\vp092705\006F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 6
Sample Name	: V 500	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 27 Sep 05 11:43 AM	Instrument Method	: GAS1.MTH
Report Created on	: 09 Nov 05 09:52 AM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Sig. 1 in C:\HPCHEM\1\DATA\vp092705\006F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
2.784	1748547	BV	0.098	1	4281.711	n-Pentane
3.869	2858178	PV	0.119	1	4419.267	2-Methylpentane
4.265	1706383	VB	0.137	1	49993.67	MTBE
6.302	2832291	VV	0.104	1	7373.176	2,2,4-Trimethylpentane
6.592	1414859	VB	0.057	1	1359.339	Benzene
7.922	3977336	BV	0.038	1	4679.511	Toluene
8.682	1833105	BV	0.035	1	2886.318	n-Nonane
8.842	6502651	VV	0.037	1	8442.337	EBenz, m-,p-Xylene
9.079	2522580	VV	0.033	1	3288.503	o-Xylene
9.401	107890	VV	0.029	1	415.590	BFB
9.759	2425041	VV	0.031	1	3580.853	1,2,4-Trimethylbenzene
11.206	787964	VV	0.026	1	-6901.313	Naphthalene
8.378	1754	VV	0.060		17.543	* uncalibrated *
8.456	1855	VB	0.043		18.546	* uncalibrated *
9.261	3006	VV	0.044		30.064	* uncalibrated *
9.550	5363	VV	0.038		53.632	* uncalibrated *
9.689	14347	VV	0.030		143.471	* uncalibrated *
9.885	7600	VV	0.047		75.995	* uncalibrated *
10.008	10518	VV	0.040		105.178	* uncalibrated *
10.455	6759	VV	0.096		67.594	* uncalibrated *
10.768	3497	PV	0.074		34.966	* uncalibrated *
10.852	3520	VV	0.075		35.195	* uncalibrated *
11.005	4106	VV	0.090		41.060	* uncalibrated *
11.090	2312	VV	0.061		23.117	* uncalibrated *
11.302	2019	VV	0.043		20.189	* uncalibrated *
11.410	5735	VV	0.110		57.352	* uncalibrated *
11.565	3733	VV	0.080		37.326	* uncalibrated *
11.678	3923	VV	0.091		39.231	* uncalibrated *
12.008	2635	VV	0.081		26.353	* uncalibrated *
12.261	1851	VV	0.097		18.512	* uncalibrated *
12.354	1347	VBA	0.037		13.468	* uncalibrated *

Calibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\vp092705\006F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 6
Sample Name	: V 500	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 27 Sep 05 11:43 AM	Instrument Method	: GAS1.MTH
Report Created on	: 09 Nov 05 09:52 AM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

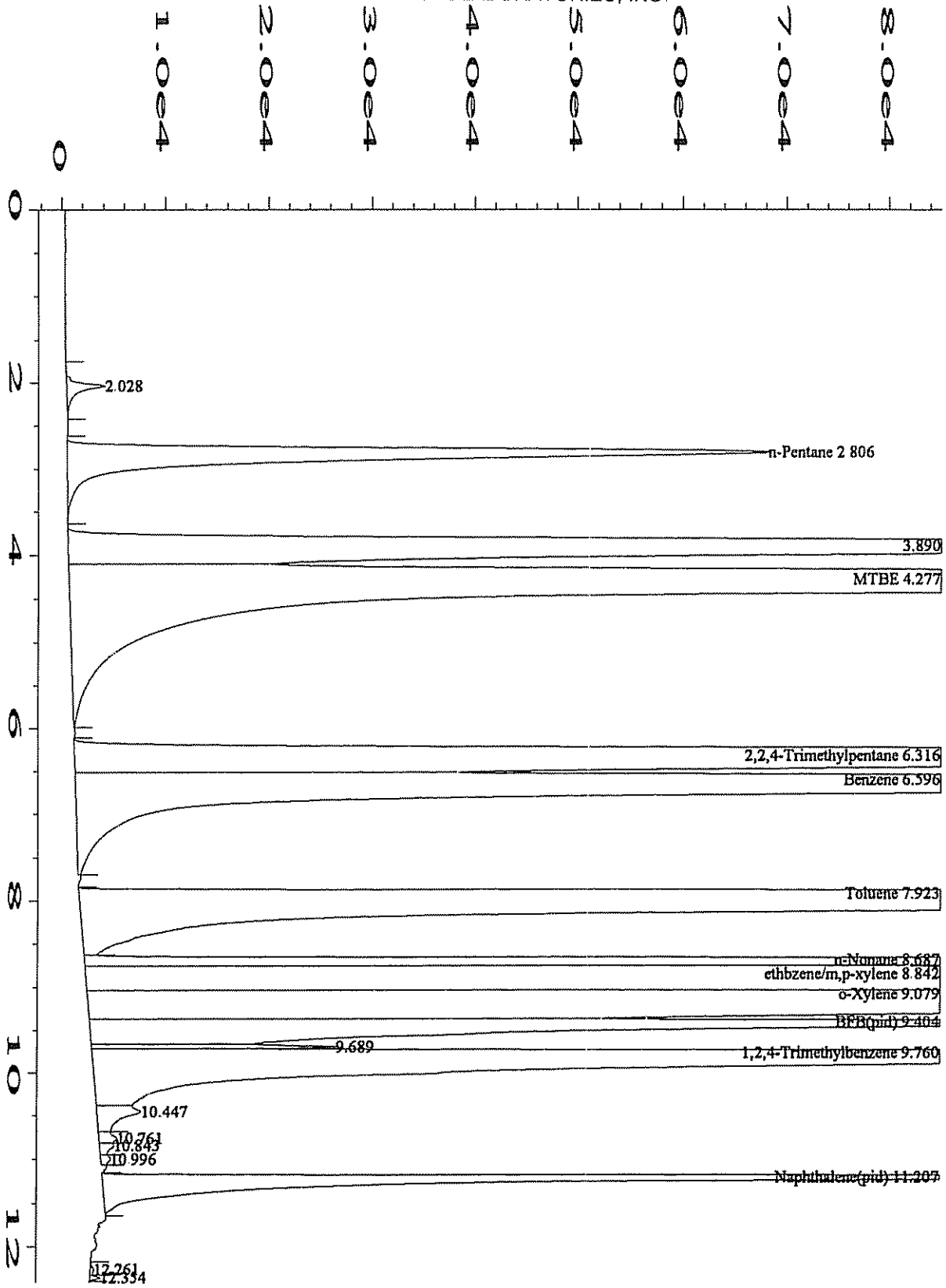
External Standard Report

Data File Name	: C:\HPCHEM\1\DATA\vp092705\006R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 6
Sample Name	: V 500	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 27 Sep 05 11:43 AM	Instrument Method:	GAS1.MTH
Report Created on:	09 Nov 05 09:52 AM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Sig. 2 in C:\HPCHEM\1\DATA\vp092705\006R0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
2.806	627245	BV	0.135	1	100.022	n-Pentane
4.010	* not found *			1		2-Methylpentane
4.277	6390072	VV	0.169	1	211.993	MTBE
6.316	3877212	VV	0.132	1	254.818	2,2,4-Trimethylpentane
6.596	6628931	VV	0.083	1	83.317	Benzene
7.923	1.14372E+007	PV	0.054	1	280.298	Toluene
8.687	1248385	VV	0.047	1	183.931	n-Nonane
8.842	1.59875E+007	VV	0.052	1	472.650	ethbzene/m,p-xylene
9.079	7977498	VV	0.053	1	205.959	o-Xylene
9.404	1303549	VV	0.060	1	87.735	BFB(pid)
9.760	5809128	VV	0.040	1	189.208	1,2,4-Trimethylbenzene
11.207	2088042	VV	0.031	1	119.297	Naphthalene(pid)
2.028	23879	BB	0.085		238.785	* uncalibrated *
3.890	1962750	PV	0.145		19627.50	* uncalibrated *
9.689	63658	VV	0.045		636.575	* uncalibrated *
10.447	46602	VV	0.147		466.020	* uncalibrated *
10.761	11403	VV	0.091		114.029	* uncalibrated *
10.843	8309	VV	0.082		83.086	* uncalibrated *
10.996	5387	VV	0.081		53.870	* uncalibrated *
12.261	1905	BV	0.083		19.054	* uncalibrated *
12.354	2290	VBA	0.035		22.900	* uncalibrated *

Not all calibrated peaks were found



Data File Name	: C:\HPCHEM\1\DATA\vp092705\006R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 6
Sample Name	: V 500	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 27 Sep 05 11:43 AM	Instrument Method:	GAS1.MTH
Report Created on:	09 Nov 05 09:52 AM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

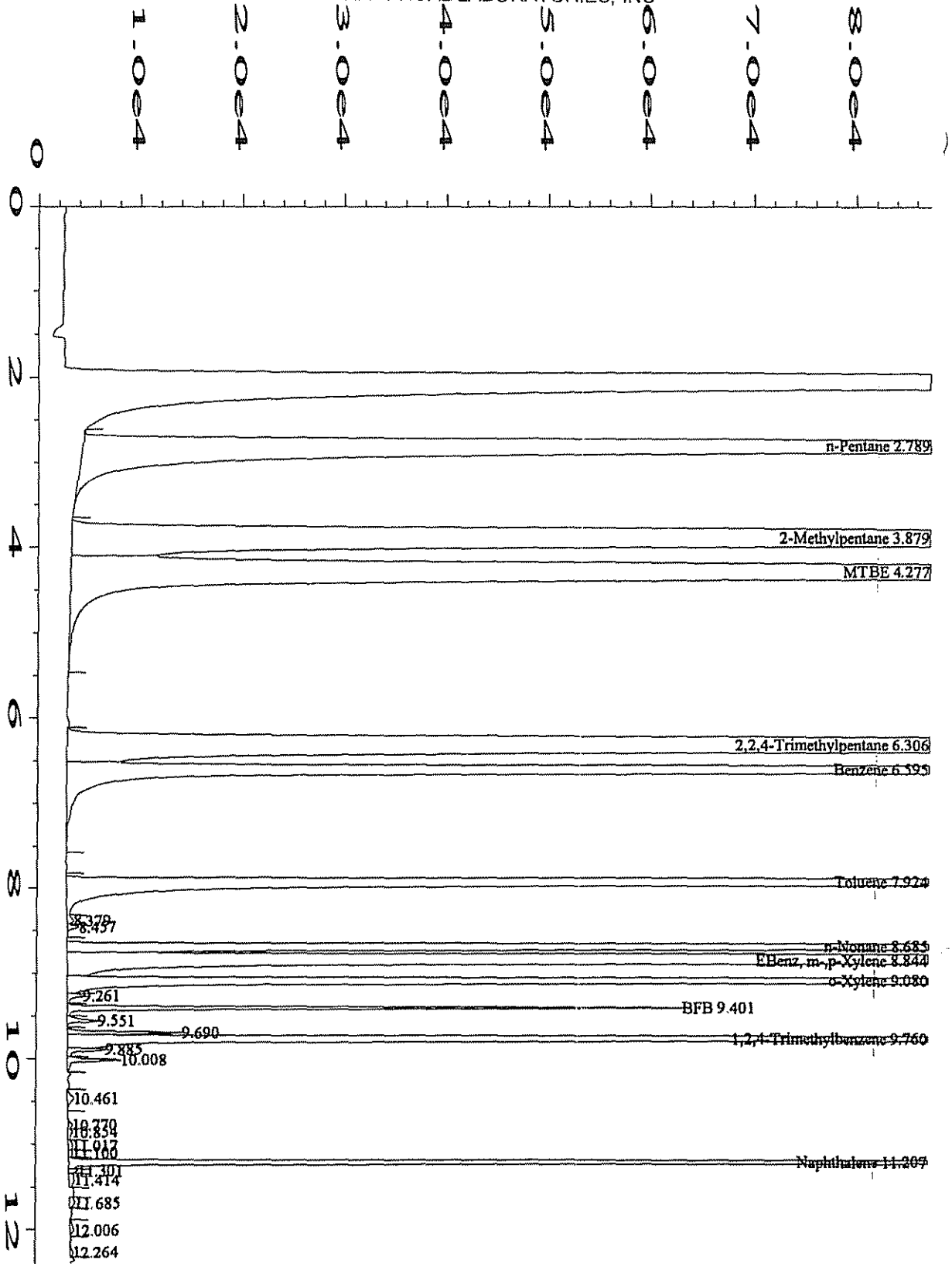
External Standard Report

Data File Name	: C:\HPCHEM\1\DATA\vp092705\008F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 8
Sample Name	: V 750	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 27 Sep 05 12:34 PM	Instrument Method	: GAS1.MTH
Report Created on	: 09 Nov 05 09:52 AM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Sig. 1 in C:\HPCHEM\1\DATA\vp092705\008F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
2.789	2846898	BV	0.100	1	7445.654	n-Pentane
3.879	4637910	PV	0.120	1	7497.519	2-Methylpentane
4.277	2836533	VB	0.136	1	88480.47	MTBE
6.306	4565237	VV	0.104	1	12402.45	2,2,4-Trimethylpentane
6.595	2275138	VB	0.057	1	2275.929	Benzene
7.924	6284642	BV	0.037	1	7803.282	Toluene
8.685	3067618	BV	0.036	1	4985.760	n-Nonane
8.844	1.02865E+007	VV	0.036	1	14202.85	EBenz, m-,p-Xylene
9.080	3886253	VV	0.033	1	5378.375	o-Xylene
9.401	110361	VV	0.029	1	425.112	BFB
9.760	3676138	VV	0.030	1	5742.634	1,2,4-Trimethylbenzene
11.207	1215080	VV	0.027	1	-11695.20	Naphthalene
8.379	2887	VV	0.060		28.871	* uncalibrated *
8.457	3122	VB	0.043		31.223	* uncalibrated *
9.261	4919	VV	0.046		49.189	* uncalibrated *
9.551	7753	VV	0.038		77.530	* uncalibrated *
9.690	21265	VV	0.030		212.648	* uncalibrated *
9.885	9274	VV	0.042		92.736	* uncalibrated *
10.008	12477	VV	0.036		124.770	* uncalibrated *
10.461	3894	VV	0.091		38.943	* uncalibrated *
10.770	1958	PV	0.072		19.584	* uncalibrated *
10.854	2490	VV	0.071		24.898	* uncalibrated *
11.017	2509	VV	0.094		25.092	* uncalibrated *
11.100	1724	VV	0.073		17.239	* uncalibrated *
11.301	2220	VV	0.034		22.196	* uncalibrated *
11.414	4288	VV	0.110		42.881	* uncalibrated *
11.685	2864	VV	0.086		28.644	* uncalibrated *
12.006	2056	VV	0.083		20.564	* uncalibrated *
12.264	1534	PV	0.094		15.345	* uncalibrated *

Calibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\vp092705\008F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 8
Sample Name	: V 750	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 27 Sep 05 12:34 PM	Instrument Method:	GAS1.MTH
Report Created on:	09 Nov 05 09:52 AM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

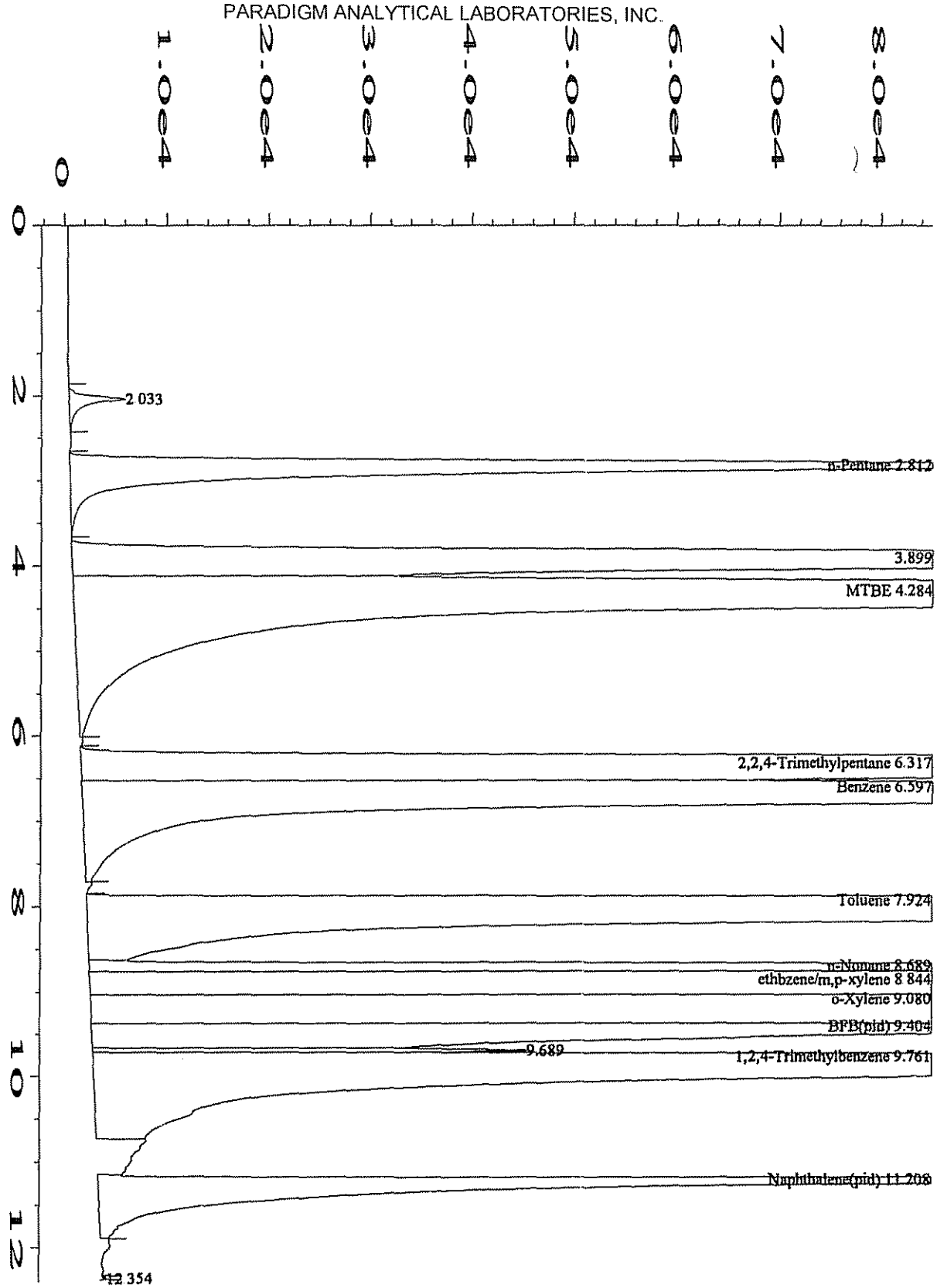
External Standard Report

Data File Name	: C:\HPCHEM\1\DATA\vp092705\008R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 8
Sample Name	: V 750	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 27 Sep 05 12:34 PM	Instrument Method:	GAS1.MTH
Report Created on:	09 Nov 05 09:52 AM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Sig. 2 in C:\HPCHEM\1\DATA\vp092705\008R0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
2.812	998192	BV	0.137	1	159.175	n-Pentane
4.010	* not found *			1		2-Methylpentane
4.284	9848593	VV	0.172	1	326.731	MTBE
6.317	5884453	VV	0.133	1	386.738	2,2,4-Trimethylpentane
6.597	9563544	VV	0.084	1	120.201	Benzene
7.924	1.63664E+007	VV	0.056	1	401.099	Toluene
8.689	2024924	VV	0.048	1	298.342	n-Nonane
8.844	2.20994E+007	VV	0.053	1	653.343	ethbzene/m,p-xylene
9.080	1.18556E+007	VV	0.056	1	306.081	o-Xylene
9.404	1816912	VV	0.070	1	122.287	BFB(pid)
9.761	9335292	VV	0.044	1	304.058	1,2,4-Trimethylbenzene
11.208	3481956	VV	0.057	1	198.936	Naphthalene(pid)
2.033	37156	BV	0.088		371.563	* uncalibrated *
3.899	3068511	PV	0.150		30685.11	* uncalibrated *
9.689	115875	VV	0.045		1158.755	* uncalibrated *
12.354	391	PBA	0.021		3.913	* uncalibrated *

Not all calibrated peaks were found



Data File Name	: C:\HPCHEM\1\DATA\vp092705\008R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 8
Sample Name	: V 750	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 27 Sep 05 12:34 PM	Instrument Method:	GAS1.MTH
Report Created on:	09 Nov 05 09:52 AM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

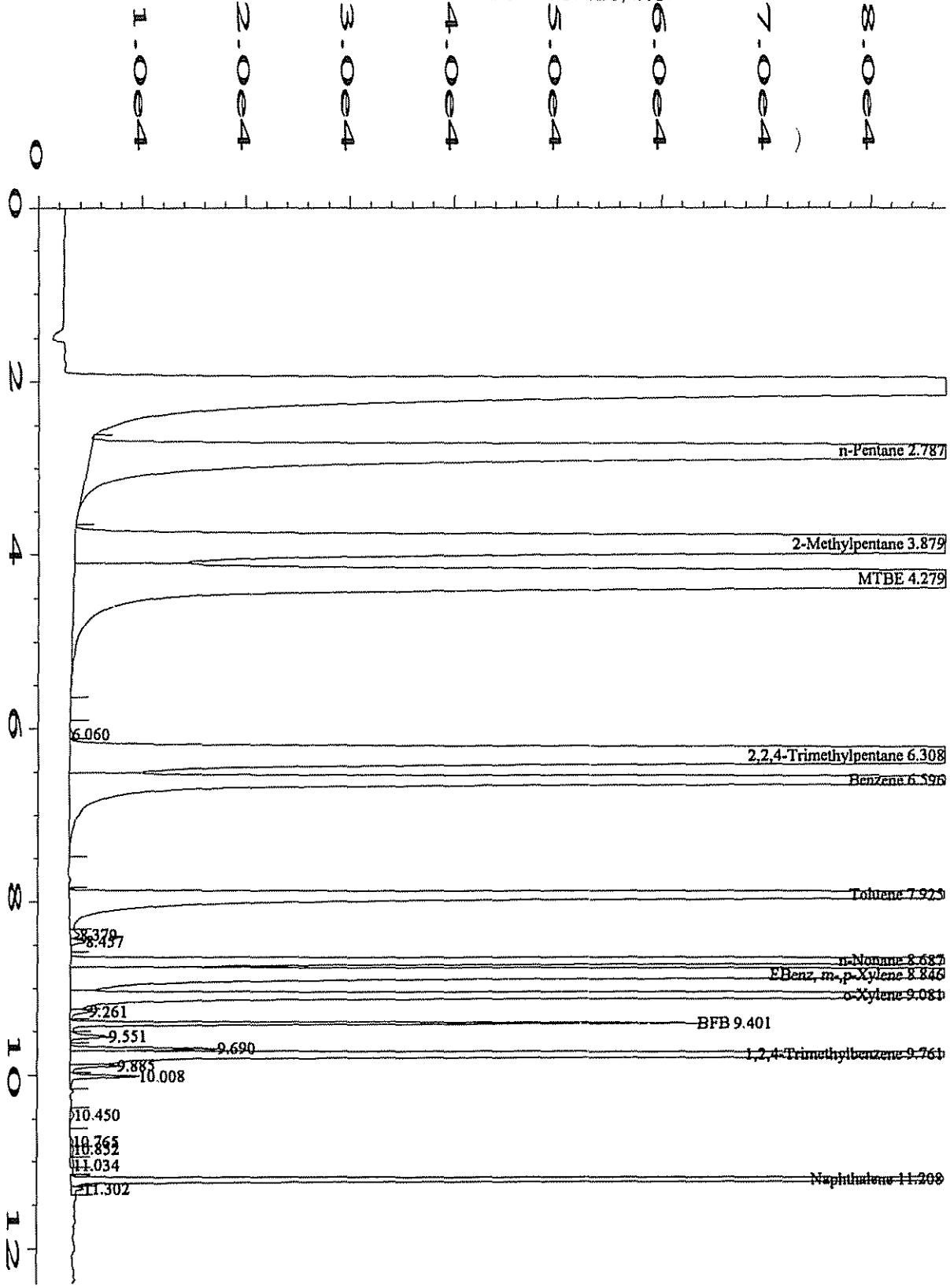
External Standard Report

Data File Name	: C:\HPCHEM\1\DATA\vp092705\010F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 10
Sample Name	: V 1000	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 27 Sep 05 01:25 PM	Instrument Method:	GAS1.MTH
Report Created on:	09 Nov 05 09:52 AM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Sig. 1 in C:\HPCHEM\1\DATA\vp092705\010F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
2.787	3663388	BV	0.100	1	9797.660	n-Pentane
3.879	6021050	PV	0.120	1	9889.820	2-Methylpentane
4.279	4184438	VB	0.136	1	134382.9	MTBE
6.308	5906957	VV	0.103	1	16296.33	2,2,4-Trimethylpentane
6.596	3162548	VV	0.057	1	3221.427	Benzene
7.925	8415470	BV	0.037	1	10688.12	Toluene
8.687	4154370	BV	0.036	1	6833.915	n-Nonane
8.846	1.37668E+007	VV	0.035	1	19501.30	EBenz, m-,p-Xylene
9.081	5130705	VV	0.032	1	7285.539	o-Xylene
9.401	110328	VV	0.029	1	424.982	BFB
9.761	4708587	VV	0.030	1	7526.610	1,2,4-Trimethylbenzene
11.208	1743456	VV	0.027	1	-17625.61	Naphthalene
6.060	1531	BV	0.079		15.310	* uncalibrated *
8.379	3845	VV	0.058		38.454	* uncalibrated *
8.457	4308	VB	0.043		43.077	* uncalibrated *
9.261	5831	VV	0.044		58.312	* uncalibrated *
9.551	9200	VV	0.037		92.001	* uncalibrated *
9.690	26872	VV	0.030		268.721	* uncalibrated *
9.885	10861	VV	0.039		108.607	* uncalibrated *
10.008	14439	VV	0.033		144.390	* uncalibrated *
10.450	2187	BV	0.081		21.870	* uncalibrated *
10.765	1389	PV	0.079		13.885	* uncalibrated *
10.852	1622	VV	0.072		16.223	* uncalibrated *
11.034	1941	VV	0.105		19.408	* uncalibrated *
11.302	3590	VV	0.052		35.899	* uncalibrated *

Calibration table contains at least one peak with amt = 0



Data File Name : C:\HPCHEM\1\DATA\vp092705\010F0101.D
Operator : DCS
Instrument : FID/PID
Sample Name : V 1000
Run Time Bar Code:
Acquired on : 27 Sep 05 01:25 PM
Report Created on: 09 Nov 05 09:52 AM
Last Recalib on : 24 AUG 04 09:09 AM
Multiplier : 1

Page Number : 1
Vial Number : 10
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

External Standard Report

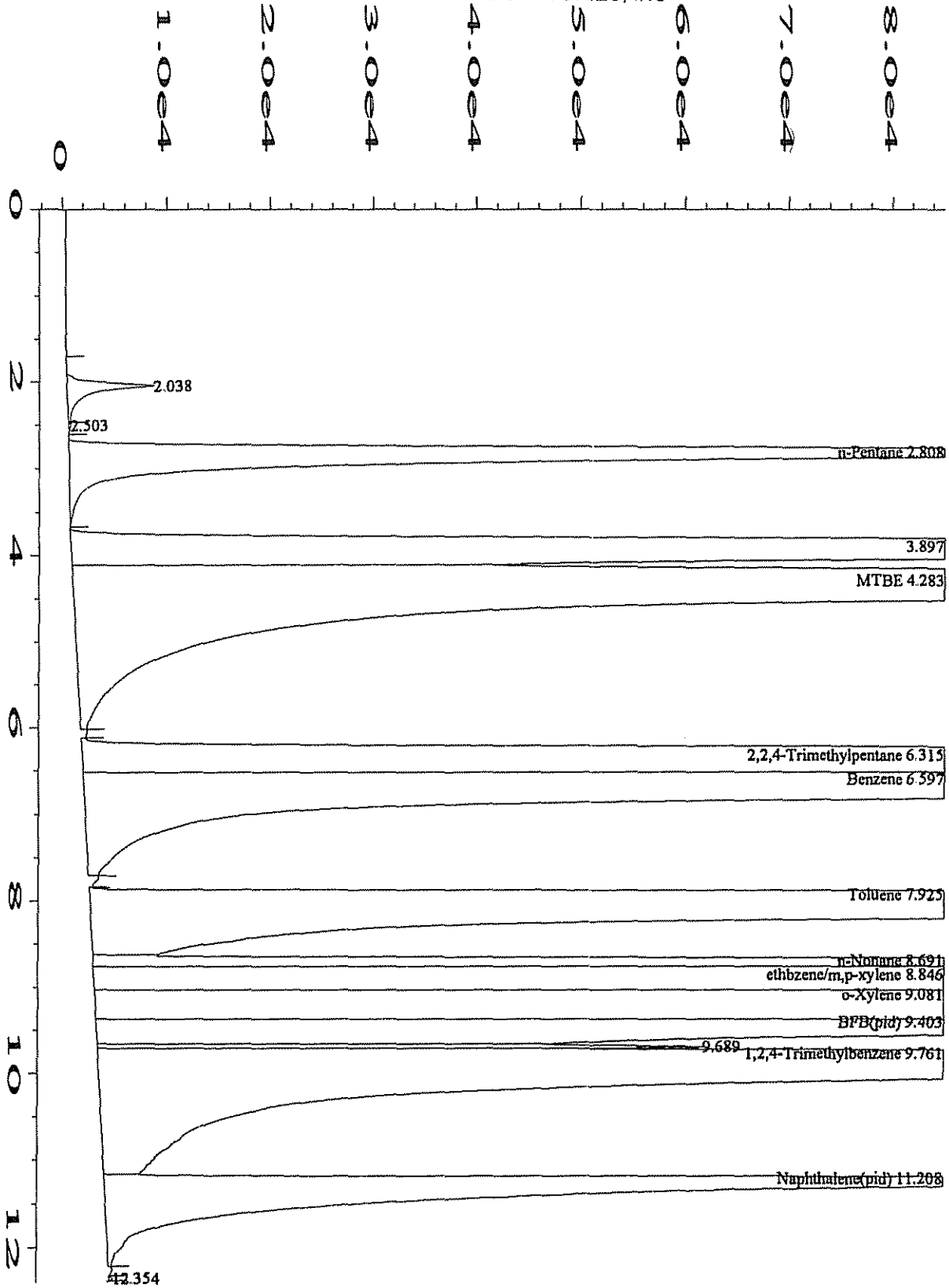
Data File Name : C:\HPCHEM\1\DATA\vp092705\010R0101.D
Operator : DCS
Instrument : FID/PID
Sample Name : V 1000
Run Time Bar Code:
Acquired on : 27 Sep 05 01:25 PM
Report Created on: 09 Nov 05 09:52 AM
Last Recalib on : 24 AUG 04 09:09 AM
Multiplier : 1

Page Number : 1
Vial Number : 10
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

Sig. 2 in C:\HPCHEM\1\DATA\vp092705\010R0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
2.808	1273368	BV	0.138	1	203.055	n-Pentane
4.010	* not found *			1		2-Methylpentane
4.283	1.34784E+007	VV	0.175	1	447.151	MTBE
6.315	7165998	VV	0.133	1	470.964	2,2,4-Trimethylpentane
6.597	1.21316E+007	VV	0.084	1	152.478	Benzene
7.925	2.00682E+007	VV	0.057	1	491.821	Toluene
8.691	2588577	VV	0.047	1	381.388	n-Nonane
8.846	2.66064E+007	VV	0.054	1	786.587	ethbzene/m,p-xylene
9.081	1.44887E+007	VV	0.056	1	374.062	o-Xylene
9.403	2305818	VV	0.077	1	155.192	BFB(pid)
9.761	1.21062E+007	VV	0.046	1	394.308	1,2,4-Trimethylbenzene
11.208	5228380	VV	0.058	1	298.715	Naphthalene(pid)
2.038	61476	PV	0.095		614.756	* uncalibrated *
2.503	921	VB	0.086		9.214	* uncalibrated *
3.897	3883305	PV	0.152		38833.05	* uncalibrated *
9.689	159716	VV	0.046		1597.163	* uncalibrated *
12.354	1452	VBA	0.058		14.516	* uncalibrated *

Not all calibrated peaks were found



Data File Name	: C:\HPCHEM\1\DATA\vp092705\010R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 10
Sample Name	: V 1000	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 27 Sep 05 01:25 PM	Instrument Method:	GAS1.MTH
Report Created on:	09 Nov 05 09:52 AM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

VPH CVS Raw Data

Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 09/27/05 PID Initial Calibration Date: 09/27/05

Calibration Ranges and Limits

Range	MDL (07/15/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_5-C_8 Aliphatics	4.4	14	100	10
C_9-C_{12} Aliphatics	3.4	11	100	10
C_9-C_{10} Aromatics	0.13	0.41	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	%RSD or CCC	Method of Quantitation
C_5-C_8 Aliphatics	40	19.9	Calibration Factor
	1000		
	2000		
	3000		
	4000		
C_9-C_{12} Aliphatics	10	0.99	Linear Regression
	250		
	500		
	750		
	1000		
C_9-C_{10} Aromatics	10	0.99	Linear Regression
	250		
	500		
	750		
	1000		

Calibration Check Date: 10/07/05

Calibration Check

Range	Levels (µg/L)	Levels (mg/Kg)	RPD
C_5-C_8 Aliphatics	2000	200	-0.7
C_9-C_{12} Aliphatics	500	50	-16.5
C_9-C_{10} Aromatics	500	50	-11.4

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

External Standard Report

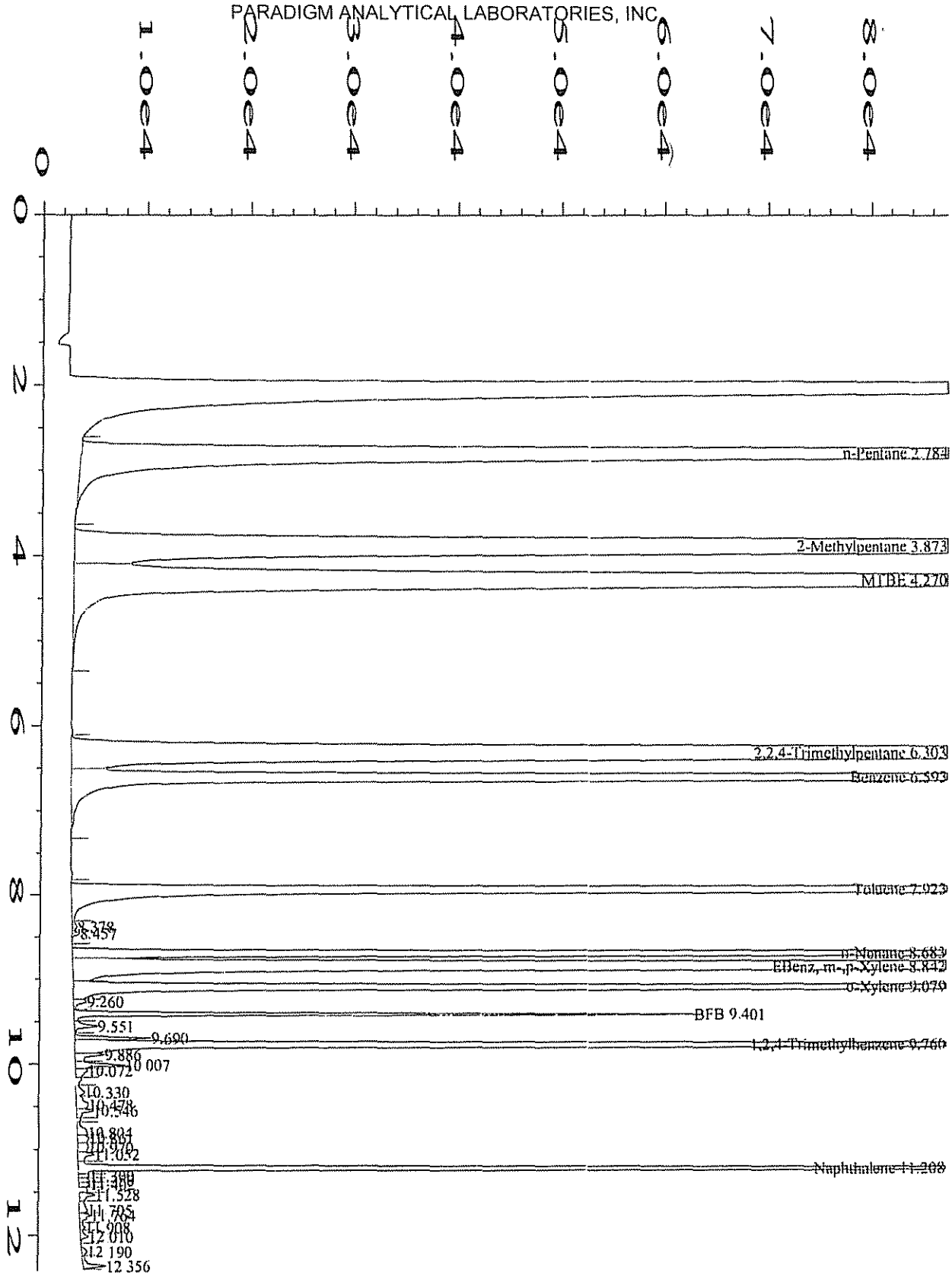
ata File Name : C:\HPCHEM\1\DATA\vp100705\002F0101.D
perator : DCS
nstrument : FID/PID
ample Name : V 500
un Time Bar Code:
cquired on : 07 Oct 05 10:37 AM
eport Created on: 10 Oct 05 10:43 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 2
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

ig. 1 in C:\HPCHEM\1\DATA\vp100705\002F0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.784	1826854	BV	0.098	1	4507.283	n-Pentane
3.873	2930862	PV	0.120	1	4544.982	2-Methylpentane
4.270	1735334	VB	0.136	1	50979.59	MTBE
6.303	2728943	VV	0.104	1	7073.243	2,2,4-Trimethylpentane
6.593	1415576	VB	0.057	1	1360.103	Benzene
7.923	3956396	BV	0.038	1	4651.163	Toluene
8.683	1861962	BV	0.035	1	2935.393	n-Nonane
8.842	6523109	VV	0.037	1	8473.481	EBenz, m-,p-Xylene
9.079	2525563	VV	0.033	1	3293.074	o-Xylene
9.401	109233	VV	0.029	1	420.766	BFB
9.760	2426202	VV	0.031	1	3582.860	1,2,4-Trimethylbenzene
11.208	786240	VV	0.026	1	-6881.964	Naphthalene
8.378	2386	VV	0.065		23.864	* uncalibrated *
8.457	2190	VB	0.045		21.897	* uncalibrated *
9.260	4447	VV	0.049		44.468	* uncalibrated *
9.551	6735	VV	0.044		67.346	* uncalibrated *
9.690	14150	VV	0.030		141.499	* uncalibrated *
9.886	8911	VV	0.044		89.110	* uncalibrated *
10.007	12463	VV	0.039		124.632	* uncalibrated *
10.072	5205	VV	0.060		52.049	* uncalibrated *
10.330	3801	VV	0.068		38.011	* uncalibrated *
10.478	7706	VV	0.096		77.064	* uncalibrated *
10.546	5081	VV	0.045		50.806	* uncalibrated *
10.804	5655	VV	0.075		56.547	* uncalibrated *
10.861	5096	VV	0.069		50.955	* uncalibrated *
10.970	5760	VV	0.082		57.600	* uncalibrated *
11.052	6290	VV	0.054		62.901	* uncalibrated *
11.300	2558	VV	0.035		25.584	* uncalibrated *
11.350	2838	VV	0.040		28.378	* uncalibrated *
11.402	3175	VV	0.044		31.751	* uncalibrated *
11.528	5085	VV	0.047		50.851	* uncalibrated *
11.705	4779	VV	0.080		47.786	* uncalibrated *
11.764	4082	VV	0.052		40.823	* uncalibrated *
11.908	1908	VV	0.050		19.076	* uncalibrated *
12.010	2950	VV	0.053		29.502	* uncalibrated *
12.190	1912	PV	0.054		19.124	* uncalibrated *
12.356	6025	VBA	0.042		60.247	* uncalibrated *

alibration table contains at least one peak with amt = 0



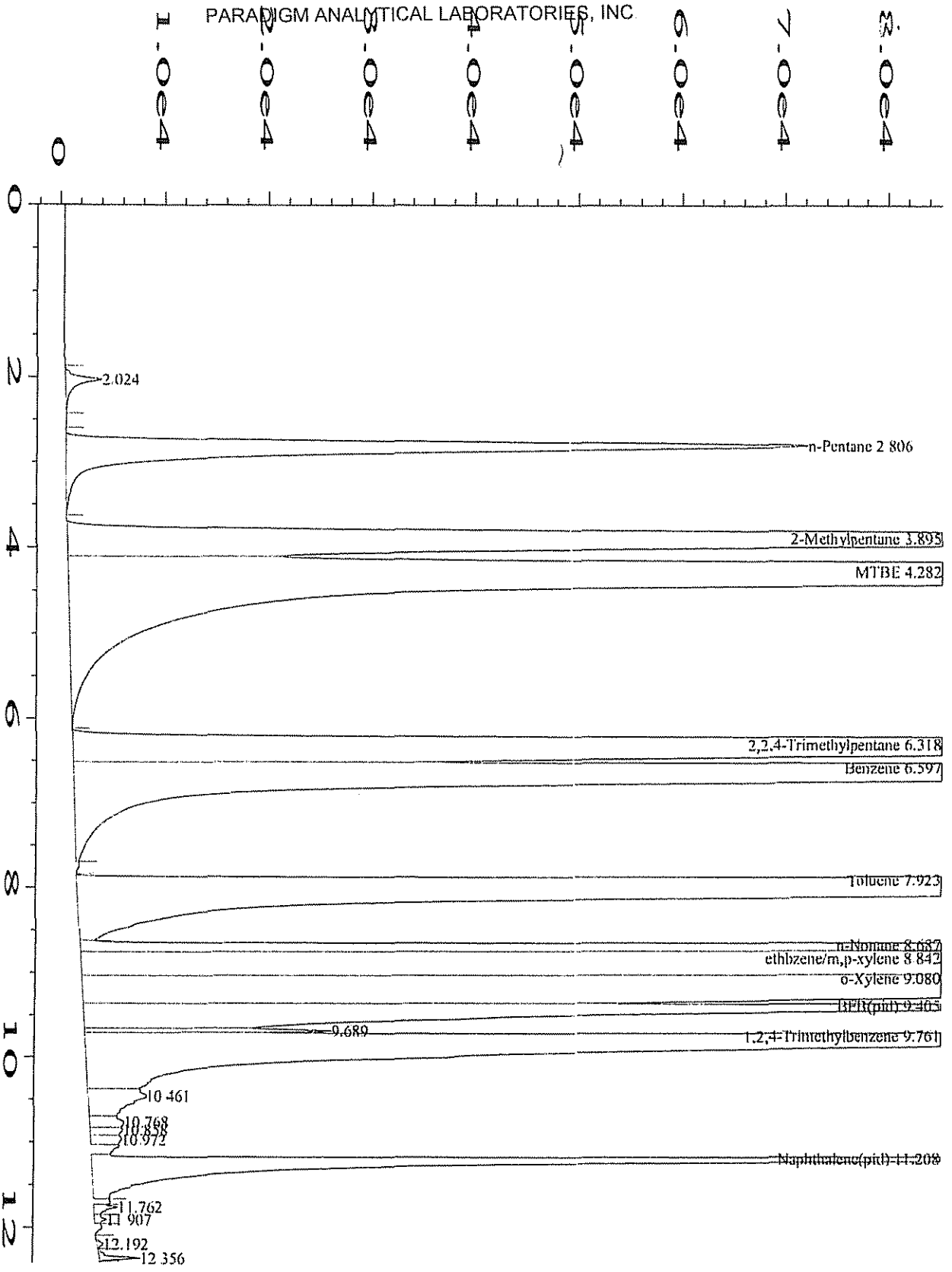
Data File Name	: C:\HPCHEM\1\DATA\vp100705\002F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 2
Sample Name	: V 500	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 07 Oct 05 10:37 AM	Instrument Method:	GAS1.MTH
Report Created on:	10 Oct 05 10:44 AM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

PARADIGM ANALYTICAL LABORATORIES, INC.
External Standard Report

Data File Name	: C:\HPCHEM\1\DATA\vp100705\002R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 2
Sample Name	: V 500	Injection Number	: 1
Run Time Bar Code	:	Sequence Line	: 1
Acquired on	: 07 Oct 05 10:37 AM	Instrument Method	: GAS1.MTH
Report Created on	: 10 Oct 05 10:44 AM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Sig. 2 in C:\HPCHEM\1\DATA\vp100705\002R0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
2.806	660601	BV	0.134	1	105.341	n-Pentane
3.895	2024454	PV	0.147	1	214.380	2-Methylpentane
4.282	6510699	VV	0.171	1	215.995	MTBE
6.318	3738181	PV	0.132	1	245.681	2,2,4-Trimethylpentane
6.597	6597571	VV	0.083	1	82.923	Benzene
7.923	1.12488E+007	PV	0.055	1	275.678	Toluene
8.687	1248367	VV	0.047	1	183.928	n-Nonane
8.842	1.5782E+007	VV	0.052	1	466.576	ethbzene/m,p-xylene
9.080	7843949	VV	0.053	1	202.511	o-Xylene
9.405	1295644	VV	0.060	1	87.203	BFB(pid)
9.761	5721268	VV	0.040	1	186.346	1,2,4-Trimethylbenzene
11.208	2086353	VV	0.032	1	119.200	Naphthalene(pid)
2.024	23062	BB	0.085		230.616	* uncalibrated *
9.689	66329	VV	0.040		663.291	* uncalibrated *
10.461	80037	VV	0.189		800.366	* uncalibrated *
10.768	24048	VV	0.107		240.478	* uncalibrated *
10.858	15614	VV	0.069		156.141	* uncalibrated *
10.972	18506	VV	0.080		185.058	* uncalibrated *
11.762	8828	VV	0.053		88.283	* uncalibrated *
11.907	4752	VV	0.057		47.522	* uncalibrated *
12.192	2160	PV	0.053		21.604	* uncalibrated *
12.356	9889	VBA	0.039		98.894	* uncalibrated *



Data File Name	: C:\HPCHEM\1\DATA\vp100705\002R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 2
Sample Name	: V 500	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 07 Oct 05 10:37 AM	Instrument Method	: GAS1.MTH
Report Created on	: 10 Oct 05 10:44 AM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 09/27/05 PID Initial Calibration Date: 09/27/05

Calibration Ranges and Limits

Range	MDL (07/15/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_5-C_8 Aliphatics	4.4	14	100	10
C_9-C_{12} Aliphatics	3.4	11	100	10
C_9-C_{10} Aromatics	0.13	0.41	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	%RSD or CCC	Method of Quantitation
C_5-C_8 Aliphatics	40	19.9	Calibration Factor
	1000		
	2000		
	3000		
	4000		
C_9-C_{12} Aliphatics	10	0.99	Linear Regression
	250		
	500		
	750		
	1000		
C_9-C_{10} Aromatics	10	0.99	Linear Regression
	250		
	500		
	750		
	1000		

Calibration Check Date: 10/11/05

Calibration Check

Range	Levels (µg/L)	Levels (mg/Kg)	RPD
C_5-C_8 Aliphatics	2000	200	1.2
C_9-C_{12} Aliphatics	500	50	-11.9
C_9-C_{10} Aromatics	500	50	-7.0

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

==========PARADIGM ANALYTICAL LABORATORIES, INC.==========

External Standard Report

==========

Data File Name : C:\HPCHEM\1\DATA\vp101105\002F0101.D
Operator : DCS
Instrument : FID/PID
Sample Name : V 500
Run Time Bar Code:
Acquired on : 11 Oct 05 08:21 AM
Report Created on: 11 Oct 05 10:01 AM
Last Recalib on : 24 AUG 04 09:09 AM
Multiplier : 1

Page Number : 1
Vial Number : 2
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\1\DATA\vp101105\002F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
2.783	1923861	BV	0.098	1	4786.725	n-Pentane
3.876	2950459	PV	0.119	1	4578.877	2-Methylpentane
4.276	1928314	VB	0.136	1	57551.46	MTBE
6.304	2466940	VV	0.103	1	6312.869	2,2,4-Trimethylpentane
6.594	1518921	VB	0.057	1	1470.212	Benzene
7.922	4125834	BV	0.038	1	4880.558	Toluene
8.682	1778048	PV	0.035	1	2792.687	n-Nonane
8.842	6532817	VV	0.037	1	8488.262	EBenz, m-,p-Xylene
9.079	2516823	VV	0.033	1	3279.681	o-Xylene
9.401	109270	VV	0.029	1	420.909	BFB
9.759	2331144	VV	0.031	1	3418.608	1,2,4-Trimethylbenzene
11.206	788000	VV	0.026	1	-6901.716	Naphthalene
8.377	1722	VV	0.061		17.225	* uncalibrated *
8.456	1749	VV	0.042		17.491	* uncalibrated *
9.259	3828	VV	0.045		38.275	* uncalibrated *
9.549	7443	VV	0.046		74.427	* uncalibrated *
9.689	13269	PV	0.030		132.689	* uncalibrated *
9.886	10243	VV	0.059		102.430	* uncalibrated *
10.008	18107	VV	0.056		181.066	* uncalibrated *
10.330	1894	VV	0.055		18.939	* uncalibrated *
10.457	12726	VV	0.078		127.263	* uncalibrated *
10.598	2165	VV	0.039		21.649	* uncalibrated *
10.878	12412	PV	0.105		124.121	* uncalibrated *
11.051	10803	VV	0.076		108.028	* uncalibrated *
11.346	3403	VV	0.047		34.034	* uncalibrated *
11.399	5823	VV	0.041		58.227	* uncalibrated *
11.525	12454	VV	0.039		124.539	* uncalibrated *
11.708	6202	VV	0.062		62.025	* uncalibrated *
11.795	13086	VV	0.059		130.858	* uncalibrated *
11.866	1030	VV	0.029		10.300	* uncalibrated *
12.009	21800	VV	0.050		218.003	* uncalibrated *
12.192	7093	PV	0.045		70.928	* uncalibrated *
12.265	3999	VV	0.042		39.986	* uncalibrated *
12.347	7313	VBA	0.044		73.133	* uncalibrated *

Calibration table contains at least one peak with amt = 0

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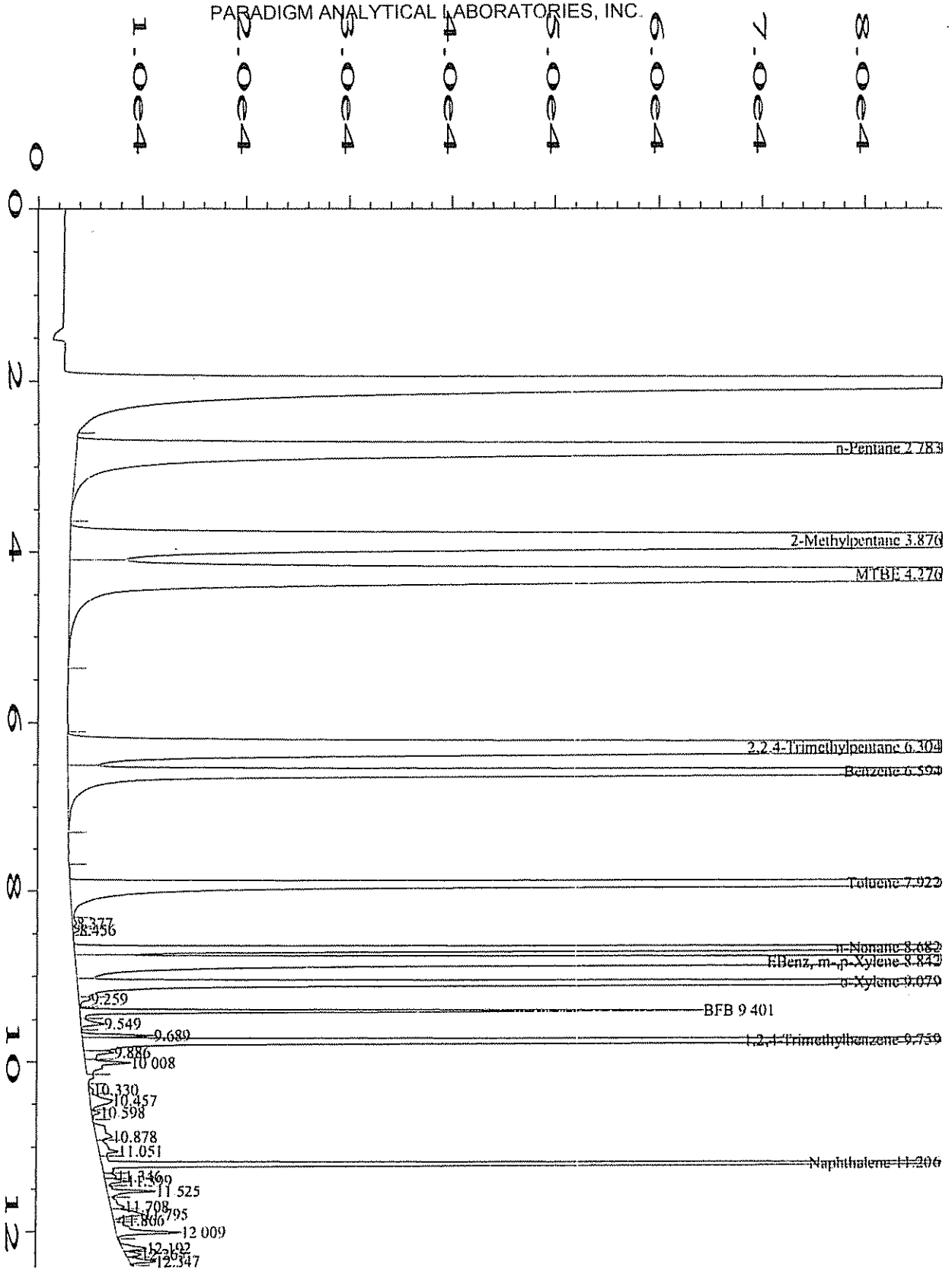


Data File Name	: C:\HPCHEM\1\DATA\vp101105\002F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 2
Sample Name	: V 500	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 11 Oct 05 08:21 AM	Instrument Method	: GAS1.MTH
Report Created on	: 11 Oct 05 10:01 AM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

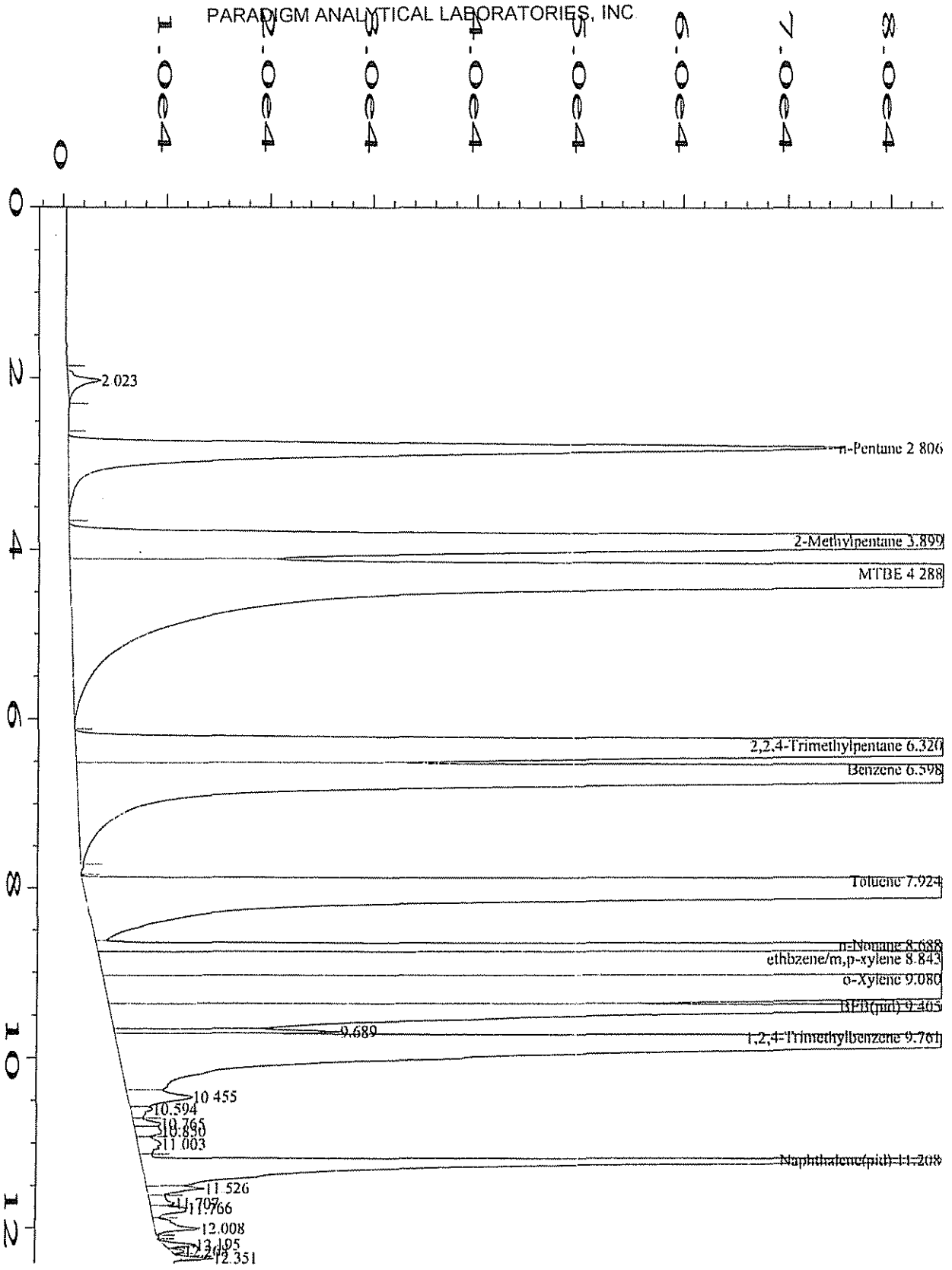
PARADIGM ANALYTICAL LABORATORIES, INC.

External Standard Report

Data File Name	: C:\HPCHEM\1\DATA\vp101105\002R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 2
Sample Name	: V 500	Injection Number	: 1
Run Time Bar Code	:	Sequence Line	: 1
Acquired on	: 11 Oct 05 08:21 AM	Instrument Method	: GAS1.MTH
Report Created on	: 11 Oct 05 10:01 AM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Sig. 2 in C:\HPCHEM\1\DATA\vp101105\002R0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
2.806	688153	BV	0.135	1	109.735	n-Pentane
3.899	2018367	PV	0.146	1	213.736	2-Methylpentane
4.288	7072566	VV	0.169	1	234.635	MTBE
6.320	3390848	PV	0.131	1	222.853	2,2,4-Trimethylpentane
6.598	6925067	VV	0.082	1	87.039	Benzene
7.924	1.1619E+007	PV	0.055	1	284.751	Toluene
8.688	1190067	VV	0.047	1	175.338	n-Nonane
8.843	1.57091E+007	VV	0.052	1	464.419	ethbzene/m,p-xylene
9.080	7894940	VV	0.054	1	203.828	o-Xylene
9.405	1284712	VV	0.060	1	86.467	BFB(pid)
9.761	5476978	VV	0.072	1	178.390	1,2,4-Trimethylbenzene
11.208	2068676	VV	0.082	1	118.190	Naphthalene(pid)
2.023	20921	BV	0.086		209.213	* uncalibrated *
9.689	57347	VV	0.044		573.474	* uncalibrated *
10.455	49484	VV	0.114		494.839	* uncalibrated *
10.594	11933	VV	0.093		119.333	* uncalibrated *
10.765	10803	VV	0.058		108.028	* uncalibrated *
10.850	16888	VV	0.097		168.877	* uncalibrated *
11.003	21521	VV	0.118		215.209	* uncalibrated *
11.526	22938	VV	0.069		229.377	* uncalibrated *
11.707	13370	VV	0.093		133.696	* uncalibrated *
11.766	18818	VV	0.082		188.183	* uncalibrated *
12.008	23591	VV	0.072		235.910	* uncalibrated *
12.195	8838	PV	0.044		88.381	* uncalibrated *
12.268	3011	VV	0.038		30.109	* uncalibrated *
12.351	6761	VBA	0.034		67.607	* uncalibrated *



Data File Name	: C:\HPCHEM\1\DATA\vp101105\002R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 2
Sample Name	: V 500	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 11 Oct 05 08:21 AM	Instrument Method:	GAS1.MTH
Report Created on:	11 Oct 05 10:01 AM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

VPH QC, Blanks Raw Data

==========PARADIGM ANALYTICAL LABORATORIES, INC.==========

External Standard Report

==========

)ata File Name : C:\HPCHEM\1\DATA\vp100705\005F0101.D
)perator : DCS
nstrument : FID/PID
ample Name : VLCS4100705A x1
un Time Bar Code:
cquired on : 07 Oct 05 11:51 AM 440.98
eport Created on: 10 Oct 05 10:44 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 5
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

ig. 1 in C:\HPCHEM\1\DATA\vp100705\005F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
2.779	36293	BV	0.086	1	36.200	n-Pentane
3.871	64310	BV	0.130	1	11.422	2-Methylpentane
4.212	66673	VV	0.178	1	156.290	MTBE
6.304	66528	VV	0.111	1	12.778	2,2,4-Trimethylpentane
6.592	68979	VV	0.094	1	8.742	Benzene
7.922	207601	VV	0.040	1	22.037	Toluene
8.681	10493	VV	0.051	1	2.633	n-Nonane
8.840	215451	VV	0.040	1	21.061	EBenz, m-,p-Xylene
9.079	72440	VV	0.047	1	7.192	o-Xylene
9.402	110031	PV	0.030	1	423.839	BFB
9.759	99205	VV	0.052	1	10.559	1,2,4-Trimethylbenzene
11.209	11908	VV	0.050	1	2.810	Naphthalene
3.007	14809	PV	0.075		148.094	* uncalibrated *
3.205	28147	VB	0.117		281.467	* uncalibrated *
4.529	36073	VV	0.110		360.727	* uncalibrated *
4.847	23124	VV	0.172		231.243	* uncalibrated *
5.096	15936	VV	0.123		159.358	* uncalibrated *
5.213	11689	VV	0.105		116.894	* uncalibrated *
5.471	24445	VV	0.107		244.453	* uncalibrated *
5.788	2113	PV	0.092		21.125	* uncalibrated *
5.955	25086	VV	0.086		250.856	* uncalibrated *
6.089	55863	VV	0.144		558.634	* uncalibrated *
6.733	11018	VV	0.074		110.178	* uncalibrated *
6.822	8605	VV	0.065		86.050	* uncalibrated *
6.976	21935	VV	0.108		219.353	* uncalibrated *
7.115	14511	VV	0.073		145.113	* uncalibrated *
7.280	30736	VV	0.073		307.365	* uncalibrated *
7.386	47438	VV	0.075		474.380	* uncalibrated *
7.520	27983	VV	0.081		279.828	* uncalibrated *
7.792	19182	VV	0.067		191.816	* uncalibrated *
8.061	10343	VV	0.099		103.434	* uncalibrated *
8.376	14903	VV	0.070		149.025	* uncalibrated *
8.459	6452	VV	0.047		64.518	* uncalibrated *
9.201	2017	VV	0.040		20.172	* uncalibrated *
9.263	5849	VV	0.038		58.486	* uncalibrated *
9.526	122329	VV	0.053		1223.293	* uncalibrated *
9.690	20772	VV	0.034		207.723	* uncalibrated *
9.891	5171	VV	0.051		51.710	* uncalibrated *
10.009	22054	VV	0.033		220.542	* uncalibrated *
10.113	42909	VV	0.052		429.086	* uncalibrated *
10.182	14311	VV	0.045		143.112	* uncalibrated *

ata File Name : C:\HPCHEM\1\DATA\VPH07050501\
perator : DCS
nstrument : FID/PID
ample Name : VLCS4100705A x1
un Time Bar Code:
cquired on : 07 Oct 05 11:51 AM
eport Created on: 10 Oct 05 10:44 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 2
Vial Number : 5
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

10.272	16544	VV	0.044	165.439	* uncalibrated *
10.322	17856	VV	0.033	178.563	* uncalibrated *
10.400	5037	VV	0.041	50.371	* uncalibrated *
10.447	5619	VV	0.039	56.186	* uncalibrated *
10.517	11907	VV	0.037	119.073	* uncalibrated *
10.559	19191	VV	0.057	191.906	* uncalibrated *
10.645	3354	VV	0.038	33.545	* uncalibrated *
10.762	14050	VV	0.054	140.503	* uncalibrated *
10.798	6783	VV	0.039	67.832	* uncalibrated *
10.854	10506	VV	0.044	105.060	* uncalibrated *
10.974	11315	VV	0.066	113.149	* uncalibrated *
11.057	9947	VV	0.094	99.466	* uncalibrated *
11.351	4183	VV	0.043	41.832	* uncalibrated *
11.482	4376	VV	0.062	43.758	* uncalibrated *
11.530	4330	VV	0.068	43.304	* uncalibrated *
11.763	3854	VV	0.036	38.537	* uncalibrated *
11.909	1460	VV	0.036	14.595	* uncalibrated *

'alibration table contains at least one peak with amt = 0

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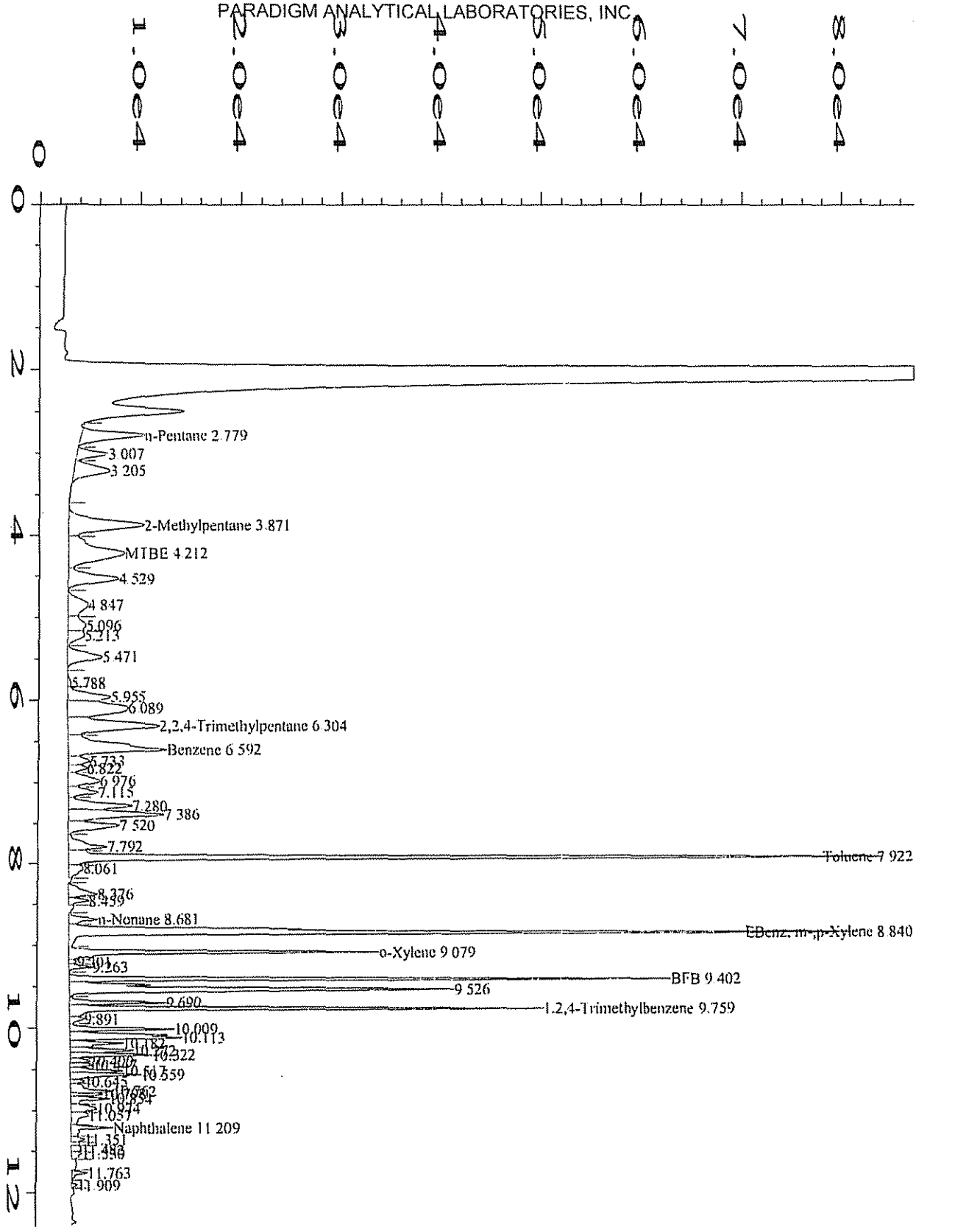


Data File Name	: C:\HPCHEM\1\DATA\vp100705\005F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 5
Sample Name	: VLCS4100705A x1	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 07 Oct 05 11:51 AM	Instrument Method:	GAS1.MTH
Report Created on:	10 Oct 05 10:44 AM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

PARADIGM ANALYTICAL LABORATORIES, INC.

External Standard Report

Data File Name	: C:\HPCHEM\1\DATA\vp100705\005R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 5
Sample Name	: VLCS4100705A x1	Injection Number	: 1
Run Time Bar Code	:	Sequence Line	: 1
Acquired on	: 07 Oct 05 11:51 AM	Instrument Method	: GAS1.MTH
Report Created on	: 10 Oct 05 10:44 AM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

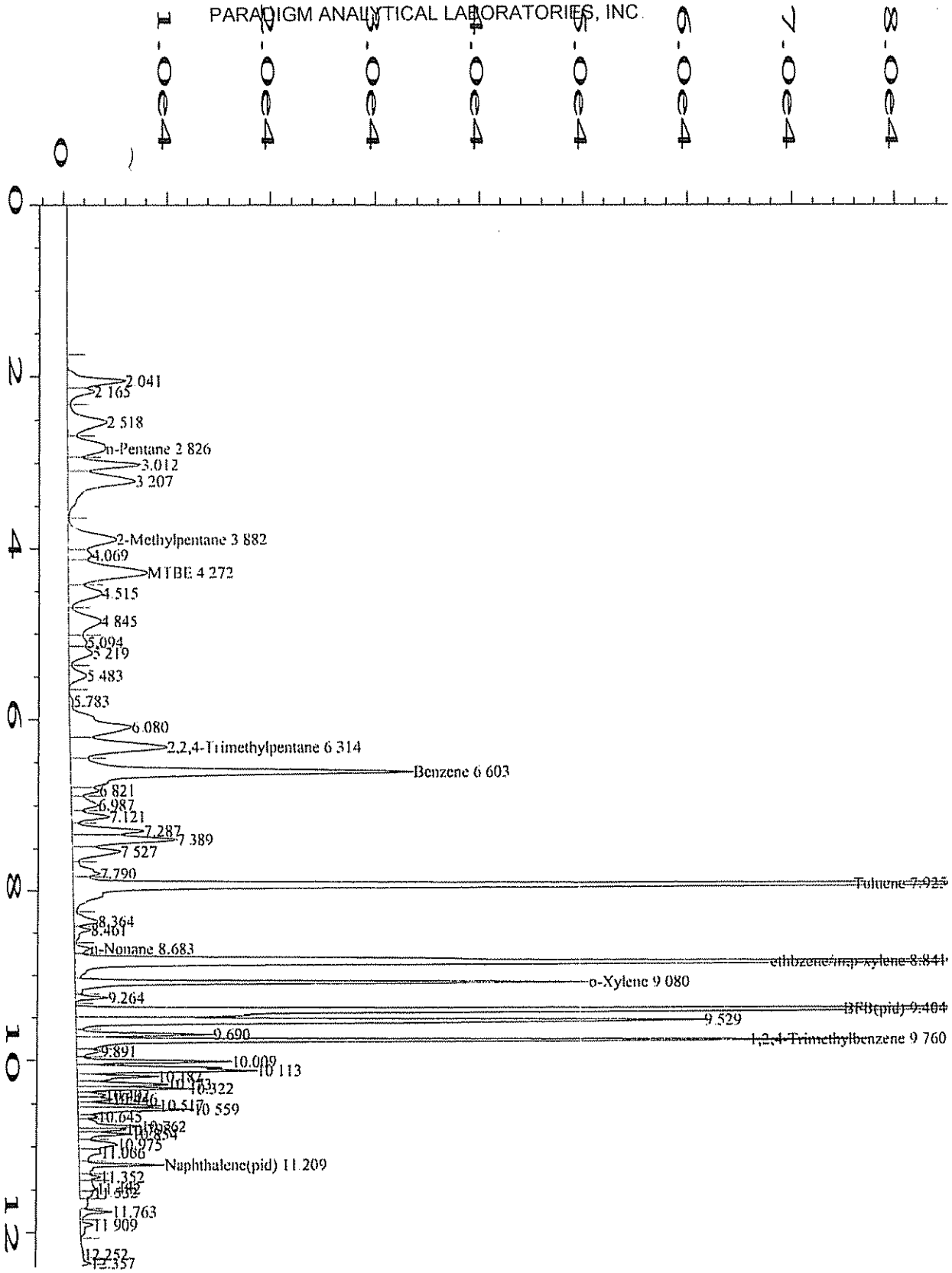
Sig. 2 in C:\HPCHEM\1\DATA\vp100705\005R0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
2.826	39286	VV	0.144	1	6.265	n-Pentane
3.882	47643	VV	0.152	1	5.045	2-Methylpentane
4.272	79184	VV	0.160	1	2.627	MTBE
6.314	76647	VV	0.126	1	5.037	2,2,4-Trimethylpentane
6.603	186444	VV	0.082	1	2.343	Benzene
7.925	487140	VV	0.045	1	11.939	Toluene
8.683	6605	VV	0.061	1	0.973	n-Nonane
8.841	418062	VV	0.042	1	12.360	ethbzene/m,p-xylene
9.080	117989	VV	0.066	1	3.046	o-Xylene
9.404	521528	PV	0.035	1	35.101	BFB(pid)
9.760	167303	VV	0.056	1	5.449	1,2,4-Trimethylbenzene
11.209	22169	VV	0.049	1	1.267	Naphthalene(pid)
2.041	33074	BV	0.082		330.738	* uncalibrated *
2.165	15121	VV	0.082		151.205	* uncalibrated *
2.518	37550	VV	0.133		375.496	* uncalibrated *
3.012	41609	VV	0.089		416.093	* uncalibrated *
3.207	69725	VV	0.160		697.249	* uncalibrated *
4.069	14429	VV	0.093		144.290	* uncalibrated *
4.515	30293	VV	0.141		302.930	* uncalibrated *
4.845	36978	VV	0.173		369.780	* uncalibrated *
5.094	12391	VV	0.102		123.915	* uncalibrated *
5.219	19071	VV	0.123		190.705	* uncalibrated *
5.483	12924	VV	0.114		129.241	* uncalibrated *
5.783	2343	PV	0.084		23.430	* uncalibrated *
6.080	63990	VV	0.159		639.902	* uncalibrated *
6.821	12230	VV	0.066		122.303	* uncalibrated *
6.987	18211	VV	0.098		182.112	* uncalibrated *
7.121	18150	VV	0.075		181.504	* uncalibrated *
7.287	32620	VV	0.071		326.199	* uncalibrated *
7.389	56107	VV	0.083		561.070	* uncalibrated *
7.527	27568	VV	0.094		275.682	* uncalibrated *
7.790	17560	VV	0.088		175.597	* uncalibrated *
8.364	13528	VV	0.087		135.284	* uncalibrated *
8.461	7492	VV	0.064		74.922	* uncalibrated *
9.264	7906	VV	0.039		79.065	* uncalibrated *
9.529	194971	VV	0.053		1949.714	* uncalibrated *
9.690	29621	VV	0.035		296.214	* uncalibrated *
9.891	8402	VV	0.054		84.016	* uncalibrated *
10.009	32458	VV	0.034		324.577	* uncalibrated *
10.113	65354	VV	0.052		653.537	* uncalibrated *
10.182	21157	VV	0.045		211.570	* uncalibrated *

Data File Name : C:\HPCHEM\1\DATA\vpl100705\005R01.D
Operator : DCS
Instrument : FID/PID
Sample Name : VLCS4100705A x1
Run Time Bar Code:
Acquired on : 07 Oct 05 11:51 AM
Report Created on: 10 Oct 05 10:44 AM
Last Recalib on : 24 AUG 04 09:09 AM
Multiplier : 1

Page Number : 2
Vial Number : 5
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

10.273	23116	VV	0.044	231.160	* uncalibrated *
10.322	23913	VV	0.034	239.133	* uncalibrated *
10.402	6792	VV	0.042	67.915	* uncalibrated *
10.446	8500	VV	0.042	84.997	* uncalibrated *
10.517	17660	VV	0.037	176.599	* uncalibrated *
10.559	30089	VV	0.057	300.887	* uncalibrated *
10.645	4337	VV	0.038	43.372	* uncalibrated *
10.762	19834	VV	0.054	198.340	* uncalibrated *
10.798	9600	VV	0.035	95.999	* uncalibrated *
10.854	14176	VV	0.045	141.760	* uncalibrated *
10.975	16661	VV	0.068	166.612	* uncalibrated *
11.066	12686	VV	0.077	126.860	* uncalibrated *
11.352	6628	VV	0.057	66.277	* uncalibrated *
11.482	9564	VV	0.075	95.643	* uncalibrated *
11.532	6326	VV	0.080	63.263	* uncalibrated *
11.763	7868	VV	0.037	78.684	* uncalibrated *
11.909	5425	VV	0.073	54.249	* uncalibrated *
12.252	598	PV	0.063	5.983	* uncalibrated *
12.357	536	PBA	0.028	5.361	* uncalibrated *



Data File Name	: C:\HPCHEM\1\DATA\vp100705\005R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 5
Sample Name	: VLCS4100705A x1	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 07 Oct 05 11:51 AM	Instrument Method:	GAS1.MTH
Report Created on:	10 Oct 05 10:44 AM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

External Standard Report

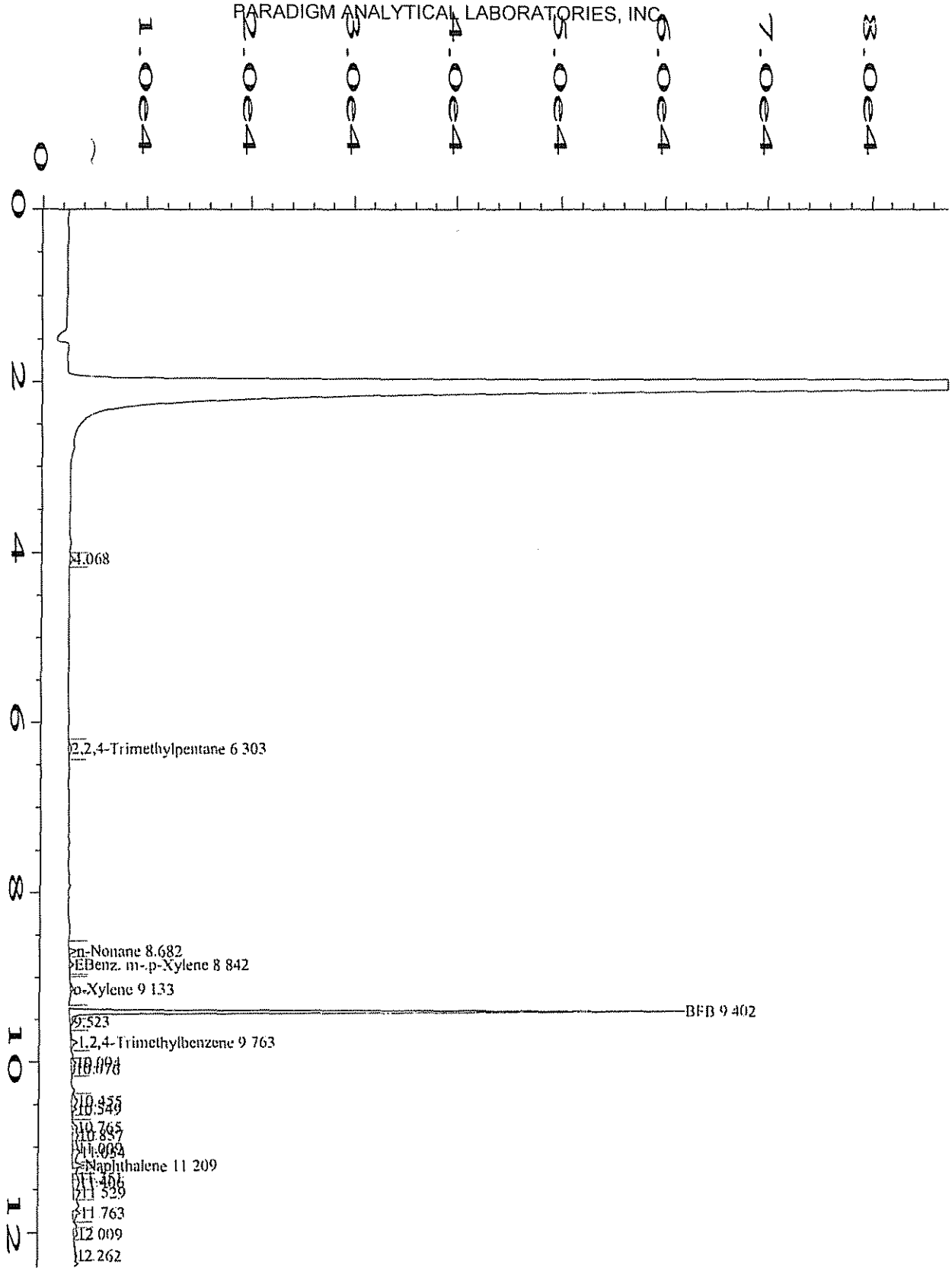
)ata File Name	: C:\HPCHEM\1\DATA\vp100705\006F0101.D		
)perator	: DCS	Page Number	: 1
nstrument	: FID/PID	Vial Number	: 6
ample Name	: VBLK4100705A x1	Injection Number	: 1
un Time Bar Code	:	Sequence Line	: 1
cquired on	: 07 Oct 05 12:16 PM	Instrument Method	: GAS1.MTH
eport Created on	: 10 Oct 05 10:44 AM	Analysis Method	: VPH_FID.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

ig. 1 in C:\HPCHEM\1\DATA\vp100705\006F0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.778	* not found *			1		n-Pentane
3.864	* not found *			1		2-Methylpentane
4.282	* not found *			1		MTBE
6.303	1686	BB	0.091	1	0.324	2,2,4-Trimethylpentane
6.600	* not found *			1		Benzene
7.926	* not found *			1		Toluene
8.682	1812	BV	0.037	1	0.455	n-Nonane
8.842	1405	PB	0.045	1	0.137	EBenz, m-,p-Xylene
9.133	1048	BV	0.054	1	0.104	o-Xylene
9.402	107450	BV	0.028	1	413.895	BFB
9.763	2710	VV	0.058	1	0.288	1,2,4-Trimethylbenzene
11.209	2910	VV	0.036	1	0.687	Naphthalene
4.068	1354	PB	0.065		13.537	* uncalibrated *
9.523	1442	VV	0.057		14.422	* uncalibrated *
10.004	1655	VV	0.051		16.553	* uncalibrated *
10.076	1373	VB	0.054		13.727	* uncalibrated *
10.455	3285	VV	0.076		32.850	* uncalibrated *
10.549	1275	VV	0.039		12.751	* uncalibrated *
10.765	1597	PV	0.047		15.970	* uncalibrated *
10.857	2756	VV	0.061		27.555	* uncalibrated *
11.009	2558	VV	0.073		25.577	* uncalibrated *
11.054	4161	VV	0.075		41.609	* uncalibrated *
11.351	1772	VV	0.047		17.720	* uncalibrated *
11.406	3831	VV	0.080		38.311	* uncalibrated *
11.529	3338	VV	0.062		33.379	* uncalibrated *
11.763	2700	VV	0.052		27.001	* uncalibrated *
12.009	1929	VV	0.067		19.290	* uncalibrated *
12.262	1174	PV	0.087		11.741	* uncalibrated *

alibration table contains at least one peak with amt = 0

ot all calibrated peaks were found



ata File Name	: C:\HPCHEM\1\DATA\vp100705\006F0101.D		
perator	: DCS	Page Number	: 1
nstrument	: FID/PID	Vial Number	: 6
ample Name	: VBLK4100705A x1	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 07 Oct 05 12:16 PM	Instrument Method:	GAS1.MTH
eport Created on:	10 Oct 05 10:44 AM	Analysis Method	: VPH_FID.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

==========PARADIGM ANALYTICAL LABORATORIES, INC.==========

External Standard Report

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ata File Name : C:\HPCHEM\1\DATA\vp100705\006R0101.D

perator	: DCS	Page Number	: 1
nstrument	: FID/PID	Vial Number	: 6
ample Name	: VBLK4100705A x1	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 07 Oct 05 12:16 PM	Instrument Method	: GAS1.MTH
eport Created on	: 10 Oct 05 10:44 AM	Analysis Method	: vph_pid.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

ig. 2 in C:\HPCHEM\1\DATA\vp100705\006R0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.829	* not found *			1		n-Pentane
3.844	1494	BV	0.073	1	0.158	2-Methylpentane
4.267	* not found *			1		MTBE
6.312	* not found *			1		2,2,4-Trimethylpentane
6.603	* not found *			1		Benzene
7.926	829	PB	0.037	1	0.0203	Toluene
8.684	720	BV	0.040	1	0.106	n-Nonane
8.843	2182	PV	0.041	1	0.0645	ethbzene/m,p-xylene
9.085	371	VV	0.026	1	0.00959	o-Xylene
9.404	481939	BV	0.033	1	32.437	BFB(pid)
9.763	1907	VV	0.038	1	0.0621	1,2,4-Trimethylbenzene
11.209	3830	BV	0.032	1	0.219	Naphthalene(pid)
2.030	9022	BB	0.084		90.225	* uncalibrated *
9.132	725	VB	0.043		7.248	* uncalibrated *
9.686	298	VV	0.055		2.978	* uncalibrated *
9.923	682	PV	0.050		6.823	* uncalibrated *
10.011	1087	VV	0.048		10.867	* uncalibrated *
10.072	337	VV	0.032		3.368	* uncalibrated *
10.328	615	BV	0.038		6.154	* uncalibrated *
10.453	5562	VV	0.079		55.619	* uncalibrated *
10.554	1086	VV	0.039		10.862	* uncalibrated *
10.764	2071	PV	0.047		20.714	* uncalibrated *
10.855	3512	VV	0.075		35.122	* uncalibrated *
11.001	2032	VV	0.062		20.320	* uncalibrated *
11.057	1492	VB	0.060		14.920	* uncalibrated *
11.355	967	VV	0.039		9.670	* uncalibrated *
11.408	2825	VV	0.074		28.246	* uncalibrated *
11.534	1243	VV	0.037		12.432	* uncalibrated *
11.682	2501	VV	0.064		25.008	* uncalibrated *
11.763	2928	VV	0.039		29.282	* uncalibrated *
11.909	1135	VV	0.035		11.350	* uncalibrated *
11.990	2239	VV	0.068		22.388	* uncalibrated *
12.263	931	PV	0.072		9.308	* uncalibrated *
12.357	994	VBA	0.029		9.942	* uncalibrated *

ot all calibrated peaks were found

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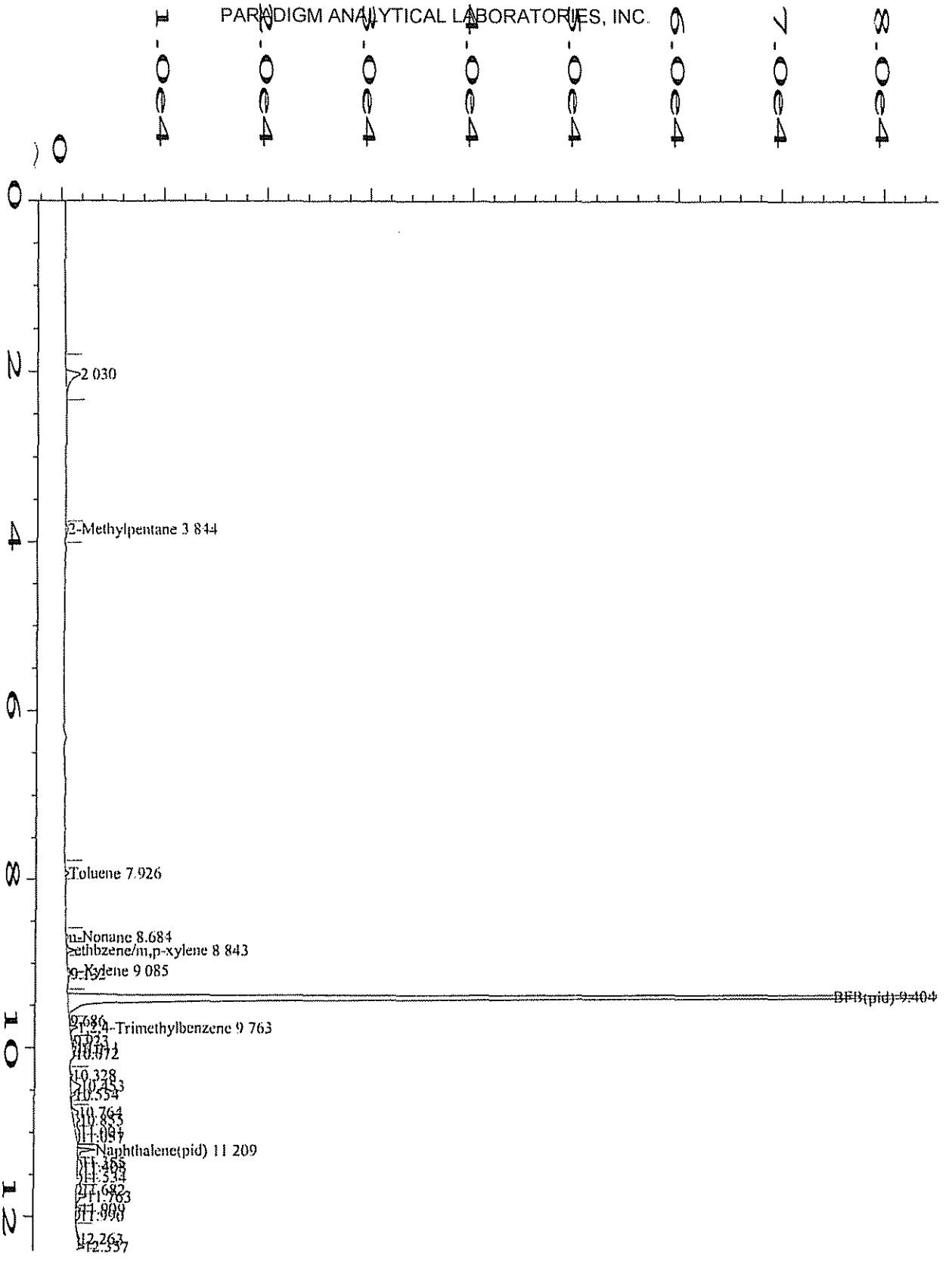

Data File Name	: C:\HPCHEM\1\DATA\vp100705\006R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 6
Sample Name	: VBLK4100705A x1	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 07 Oct 05 12:16 PM	Instrument Method	: GAS1.MTH
Report Created on	: 10 Oct 05 10:44 AM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

==========PARADIGM ANALYTICAL LABORATORIES, INC.==========

External Standard Report

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Data File Name : C:\HPCHEM\1\DATA\vp100705\016F0101.D

Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 16
Sample Name	: g349-122-3d ms	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 07 Oct 05 06:23 PM 516.82	Instrument Method	: GAS1.MTH
Report Created on	: 10 Oct 05 10:44 AM 515.42	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Sig. 1 in C:\HPCHEM\1\DATA\vp100705\016F0101.D

Ret Time	Area	Type	Width	Ref#	ug/L	Name
2.776	28938	BV	0.088	1	28.864	n-Pentane
3.869	58813	BV	0.130	1	10.446	2-Methylpentane
4.217	67377	VV	0.182	1	157.942	MTBE
6.301	79238	VV	0.119	1	15.220	2,2,4-Trimethylpentane
6.592	80278	VV	0.098	1	10.174	Benzene
7.922	239064	VV	0.042	1	25.377	Toluene
8.684	11834	VV	0.059	1	2.969	n-Nonane
8.839	228789	VV	0.058	1	22.365	EBenz, m-,p-Xylene
9.078	77077	VV	0.037	1	7.653	o-Xylene
9.401	114400	VV	0.031	1	440.667	BFB
9.759	107989	VV	0.045	1	11.493	1,2,4-Trimethylbenzene
11.214	29142	VV	0.067	1	6.876	Naphthalene
3.005	11797	PV	0.075		117.972	* uncalibrated *
3.203	20747	VB	0.139		207.474	* uncalibrated *
4.529	34058	VV	0.110		340.582	* uncalibrated *
4.839	17737	VV	0.160		177.371	* uncalibrated *
5.096	25941	VV	0.189		259.413	* uncalibrated *
5.471	26822	VV	0.108		268.223	* uncalibrated *
5.785	4845	PV	0.110		48.454	* uncalibrated *
5.955	25770	VV	0.085		257.699	* uncalibrated *
6.093	59575	VV	0.148		595.755	* uncalibrated *
6.734	9110	VV	0.075		91.104	* uncalibrated *
6.821	6339	VV	0.062		63.393	* uncalibrated *
6.977	25325	VV	0.102		253.250	* uncalibrated *
7.117	28496	VV	0.071		284.958	* uncalibrated *
7.281	38340	VV	0.077		383.398	* uncalibrated *
7.386	53498	VV	0.075		534.975	* uncalibrated *
7.518	32762	VV	0.083		327.621	* uncalibrated *
7.791	24699	VV	0.079		246.987	* uncalibrated *
8.059	16592	VV	0.078		165.919	* uncalibrated *
8.337	37982	VV	0.082		379.821	* uncalibrated *
8.456	9181	VV	0.046		91.806	* uncalibrated *
8.957	8921	VV	0.071		89.207	* uncalibrated *
9.199	1736	VV	0.032		17.361	* uncalibrated *
9.263	27407	VV	0.036		274.066	* uncalibrated *
9.526	159798	VV	0.057		1597.982	* uncalibrated *
9.689	34008	VV	0.033		340.076	* uncalibrated *
9.844	9127	VV	0.042		91.271	* uncalibrated *
9.888	8278	VV	0.045		82.783	* uncalibrated *
10.009	24105	VV	0.033		241.045	* uncalibrated *
10.079	54695	VV	0.066		546.950	* uncalibrated *

ata File Name : C:\HPCHEM\1\DATA\vp100705\016F0101.D
perator : DCS
nstrument : FID/PID
ample Name : g349-122-3d ms
un Time Bar Code:
cquired on : 07 Oct 05 06:23 PM
eport Created on: 10 Oct 05 10:44 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 2
Vial Number : 16
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

10.181	20633	VV	0.050	206.331	* uncalibrated *
10.270	22682	VV	0.040	226.819	* uncalibrated *
10.322	25883	VV	0.036	258.834	* uncalibrated *
10.396	14457	VV	0.042	144.569	* uncalibrated *
10.446	12290	VV	0.038	122.901	* uncalibrated *
10.515	24379	VV	0.046	243.794	* uncalibrated *
10.561	22357	VV	0.043	223.573	* uncalibrated *
10.635	11840	VV	0.043	118.400	* uncalibrated *
10.695	6201	VV	0.039	62.008	* uncalibrated *
10.799	34387	VV	0.066	343.866	* uncalibrated *
10.853	13660	VV	0.035	136.599	* uncalibrated *
10.977	36134	VV	0.060	361.344	* uncalibrated *
11.068	26540	VV	0.060	265.400	* uncalibrated *
11.348	4899	VV	0.044	48.987	* uncalibrated *
11.437	8038	VV	0.053	80.384	* uncalibrated *
11.485	17883	VV	0.060	178.826	* uncalibrated *
11.619	2981	VV	0.043	29.811	* uncalibrated *
11.706	7805	VV	0.064	78.051	* uncalibrated *
11.765	11025	VV	0.040	110.247	* uncalibrated *
11.912	7679	VV	0.059	76.787	* uncalibrated *
12.174	1329	PV	0.063	13.289	* uncalibrated *
12.229	1419	VV	0.048	14.193	* uncalibrated *

alibration table contains at least one peak with amt = 0

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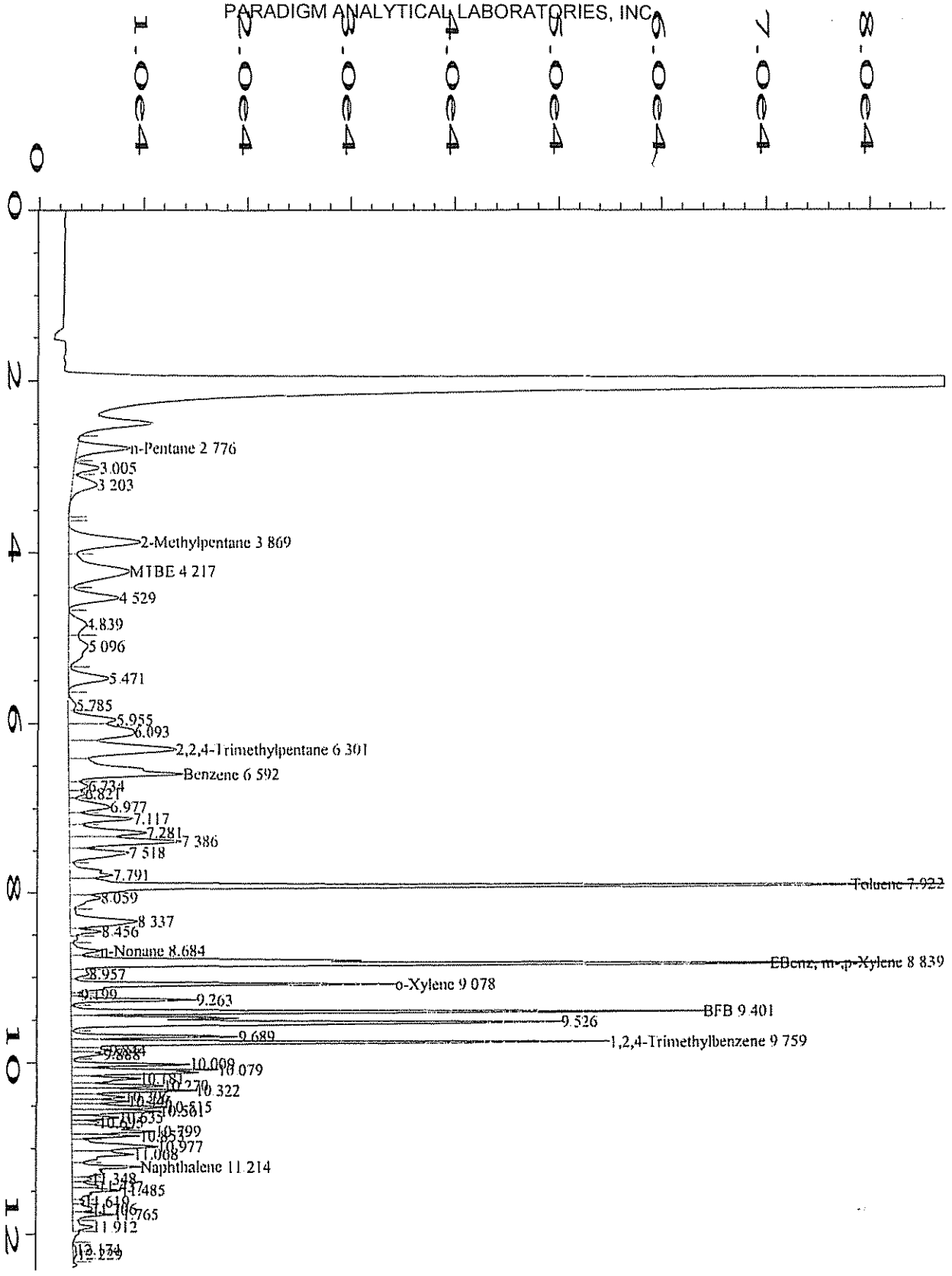

Data File Name	: C:\HPCHEM\1\DATA\vp100705\016F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 16
Sample Name	: g349-122-3d ms	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 07 Oct 05 06:23 PM	Instrument Method	: GAS1.MTH
Report Created on	: 10 Oct 05 10:44 AM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp100705\016R0101.D
perator : DCS
nstrument : FID/PID
ample Name : g349-122-3d ms
un Time Bar Code:
cquired on : 07 Oct 05 06:23 PM
eport Created on: 10 Oct 05 10:44 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 16
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

ig. 2 in C:\HPCHEM\1\DATA\vp100705\016R0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.793	28489	VV	0.139	1	4.543	n-Pentane
3.881	42536	VV	0.155	1	4.504	2-Methylpentane
4.274	85079	VV	0.155	1	2.823	MTBE
6.311	93552	VV	0.135	1	6.148	2,2,4-Trimethylpentane
6.604	201777	VV	0.081	1	2.536	Benzene
7.926	535638	VV	0.046	1	13.127	Toluene
8.692	10849	VV	0.064	1	1.598	n-Nonane
8.841	442186	VV	0.043	1	13.073	ethbzene/m,p-xylene
9.080	124279	VV	0.050	1	3.209	o-Xylene
9.404	508299	VV	0.034	1	34.211	BFB(pid)
9.760	196572	VV	0.055	1	6.403	1,2,4-Trimethylbenzene
11.213	41525	VV	0.065	1	2.372	Naphthalene(pid)
1.487	933	BB	0.039		9.333	* uncalibrated *
1.620	1353	BB	0.048		13.527	* uncalibrated *
2.032	20957	BV	0.090		209.569	* uncalibrated *
2.163	7922	VV	0.077		79.224	* uncalibrated *
2.514	27080	VV	0.138		270.799	* uncalibrated *
3.011	30297	VV	0.088		302.974	* uncalibrated *
3.202	46869	VV	0.166		468.687	* uncalibrated *
4.065	9705	VV	0.079		97.046	* uncalibrated *
4.518	27486	VV	0.143		274.856	* uncalibrated *
4.840	28089	VV	0.163		280.889	* uncalibrated *
5.095	13556	VV	0.117		135.560	* uncalibrated *
5.210	14224	VV	0.121		142.245	* uncalibrated *
5.482	12971	VV	0.118		129.712	* uncalibrated *
5.800	5112	PV	0.118		51.116	* uncalibrated *
6.081	64587	VV	0.164		645.872	* uncalibrated *
6.820	9091	VV	0.063		90.913	* uncalibrated *
6.988	19784	VV	0.096		197.841	* uncalibrated *
7.124	37108	VV	0.074		371.084	* uncalibrated *
7.290	40018	VV	0.073		400.178	* uncalibrated *
7.389	64058	VV	0.084		640.584	* uncalibrated *
7.528	33033	VV	0.105		330.329	* uncalibrated *
7.744	23128	VV	0.083		231.281	* uncalibrated *
8.058	24964	VV	0.081		249.636	* uncalibrated *
8.338	45584	VV	0.077		455.841	* uncalibrated *
8.458	12316	VV	0.061		123.159	* uncalibrated *
8.960	10755	VV	0.054		107.553	* uncalibrated *
9.264	38552	VV	0.037		385.518	* uncalibrated *
9.472	57231	VV	0.032		572.310	* uncalibrated *
9.529	234338	VV	0.051		2343.383	* uncalibrated *

ata File Name : C:\HPCHEM\1\DATA\vr100705\016R0101.D
perator : DCS
nstrument : FID/PID
ample Name : g349-122-3d ms
an Time Bar Code:
cquired on : 07 Oct 05 06:23 PM
eport Created on: 10 Oct 05 10:44 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 2
Vial Number : 16
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

9.691	49023	VV	0.035	490.233	* uncalibrated *
9.888	13146	VV	0.049	131.458	* uncalibrated *
10.010	35505	VV	0.034	355.046	* uncalibrated *
10.081	82174	VV	0.068	821.736	* uncalibrated *
10.182	29565	VV	0.051	295.650	* uncalibrated *
10.272	31559	VV	0.040	315.589	* uncalibrated *
10.322	36064	VV	0.034	360.645	* uncalibrated *
10.397	18803	VV	0.041	188.027	* uncalibrated *
10.447	16916	VV	0.039	169.156	* uncalibrated *
10.517	37213	VV	0.046	372.132	* uncalibrated *
10.561	35633	VV	0.044	356.332	* uncalibrated *
10.636	15235	VV	0.040	152.347	* uncalibrated *
10.695	8118	VV	0.039	81.184	* uncalibrated *
10.799	47667	VV	0.070	476.672	* uncalibrated *
10.853	18893	VV	0.043	188.932	* uncalibrated *
10.978	49556	VV	0.061	495.556	* uncalibrated *
11.069	34488	VV	0.062	344.879	* uncalibrated *
11.349	6823	VV	0.045	68.231	* uncalibrated *
11.486	34106	VV	0.079	341.060	* uncalibrated *
11.619	3689	VV	0.043	36.888	* uncalibrated *
11.708	9579	VV	0.056	95.788	* uncalibrated *
11.765	17896	VV	0.041	178.958	* uncalibrated *
11.911	13785	VV	0.062	137.854	* uncalibrated *
12.230	3527	PV	0.071	35.272	* uncalibrated *
12.358	718	PBA	0.026	7.183	* uncalibrated *

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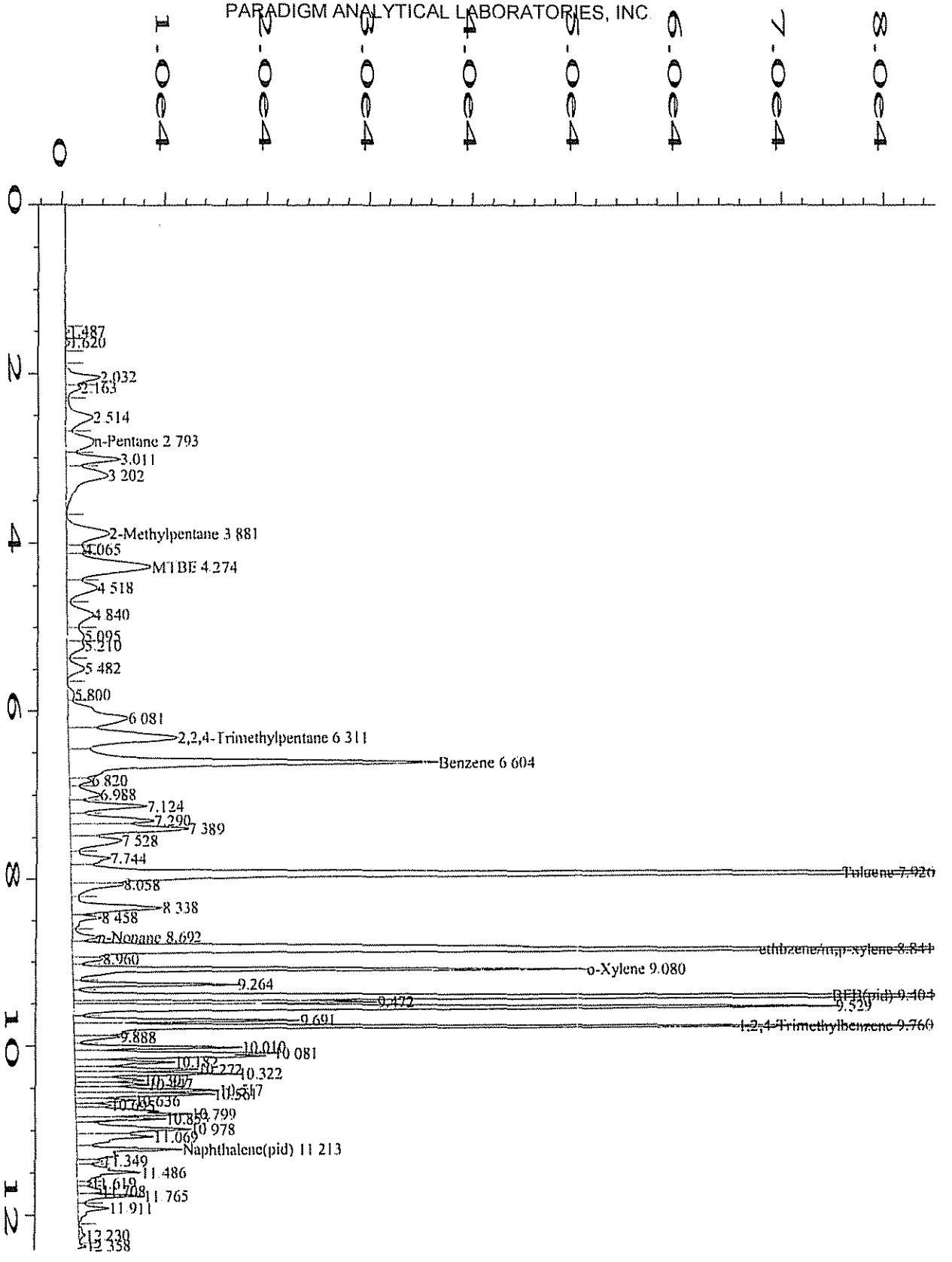

Data File Name	: C:\HPCHEM\1\DATA\vp100705\016R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 16
Sample Name	: g349-122-3d ms	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 07 Oct 05 06:23 PM	Instrument Method:	GAS1.MTH
Report Created on:	10 Oct 05 10:44 AM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

PARADIGM ANALYTICAL LABORATORIES, INC.

External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp100705\017F0101.D
perator : DCS
nstrument : FID/PID
ample Name : g349-122-3e msd
un Time Bar Code:
cquired on : 07 Oct 05 06:47 PM
eport Created on: 10 Oct 05 10:44 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 17
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

ig. 1 in C:\HPCHEM\1\DATA\vp100705\017F0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.775	26344	BV	0.085	1	26.277	n-Pentane
3.872	54973	BV	0.122	1	9.764	2-Methylpentane
4.220	65070	VV	0.182	1	152.534	MTBE
6.301	78798	VV	0.122	1	15.135	2,2,4-Trimethylpentane
6.593	78705	VV	0.099	1	9.975	Benzene
7.923	232820	VV	0.042	1	24.714	Toluene
8.685	12338	VV	0.060	1	3.096	n-Nonane
8.840	226657	VV	0.042	1	22.157	EBenz, m-,p-Xylene
9.079	77143	VV	0.048	1	7.659	o-Xylene
9.402	115958	VV	0.031	1	446.669	BFB
9.759	111944	VV	0.045	1	11.914	1,2,4-Trimethylbenzene
11.215	30827	VV	0.067	1	7.274	Naphthalene
3.006	10992	PV	0.075		109.916	* uncalibrated *
3.203	19436	VB	0.119		194.359	* uncalibrated *
4.531	31452	VV	0.109		314.517	* uncalibrated *
4.841	16467	VV	0.154		164.674	* uncalibrated *
5.099	24687	VV	0.189		246.867	* uncalibrated *
5.472	26849	VV	0.108		268.487	* uncalibrated *
5.789	4962	PV	0.109		49.618	* uncalibrated *
5.958	24271	VV	0.084		242.712	* uncalibrated *
6.084	57532	VV	0.129		575.317	* uncalibrated *
6.736	8711	VV	0.075		87.106	* uncalibrated *
6.822	6129	VV	0.063		61.288	* uncalibrated *
6.978	24846	VV	0.102		248.457	* uncalibrated *
7.118	30482	VV	0.070		304.818	* uncalibrated *
7.282	37805	VV	0.077		378.049	* uncalibrated *
7.387	52371	VV	0.076		523.710	* uncalibrated *
7.519	32691	VV	0.083		326.909	* uncalibrated *
7.742	11441	VV	0.058		114.406	* uncalibrated *
7.792	13628	VV	0.048		136.279	* uncalibrated *
8.060	17096	VV	0.078		170.964	* uncalibrated *
8.338	39550	VV	0.082		395.497	* uncalibrated *
8.457	9530	VV	0.047		95.297	* uncalibrated *
8.957	9582	VV	0.071		95.823	* uncalibrated *
9.200	2148	VV	0.036		21.476	* uncalibrated *
9.263	28898	VV	0.036		288.980	* uncalibrated *
9.474	32744	VV	0.032		327.441	* uncalibrated *
9.527	132563	VV	0.046		1325.632	* uncalibrated *
9.690	36333	VV	0.033		363.326	* uncalibrated *
9.845	9828	VV	0.042		98.280	* uncalibrated *
9.888	8941	VV	0.045		89.413	* uncalibrated *

ata File Name : C:\HPCHEM\1\DATA\vp100705\017F0101.D
perator : DCS
nstrument : FID/PID
ample Name : g349-122-3e msd
in Time Bar Code:
cquired on : 07 Oct 05 06:47 PM
eport Created on: 10 Oct 05 10:44 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 2
Vial Number : 17
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

10.009	25464	VV	0.033	254.636	* uncalibrated *
10.080	56172	VV	0.066	561.723	* uncalibrated *
10.182	21662	VV	0.053	216.621	* uncalibrated *
10.270	23591	VV	0.040	235.911	* uncalibrated *
10.322	27003	VV	0.033	270.035	* uncalibrated *
10.396	15617	VV	0.042	156.173	* uncalibrated *
10.447	13086	VV	0.038	130.863	* uncalibrated *
10.515	25339	VV	0.046	253.391	* uncalibrated *
10.561	23119	VV	0.043	231.192	* uncalibrated *
10.635	12422	VV	0.043	124.225	* uncalibrated *
10.695	6587	VV	0.039	65.868	* uncalibrated *
10.799	36311	VV	0.071	363.106	* uncalibrated *
10.853	14374	VV	0.041	143.739	* uncalibrated *
10.978	37952	VV	0.059	379.523	* uncalibrated *
11.068	27772	VV	0.059	277.716	* uncalibrated *
11.348	5155	VV	0.044	51.551	* uncalibrated *
11.437	8303	VV	0.051	83.033	* uncalibrated *
11.486	19267	VV	0.059	192.672	* uncalibrated *
11.620	3107	VV	0.043	31.069	* uncalibrated *
11.688	7896	VV	0.062	78.964	* uncalibrated *
11.765	12259	VV	0.044	122.591	* uncalibrated *
11.912	10682	VV	0.067	106.817	* uncalibrated *
12.183	1258	PV	0.063	12.582	* uncalibrated *
12.229	1423	VV	0.043	14.233	* uncalibrated *

alibration table contains at least one peak with amt = 0

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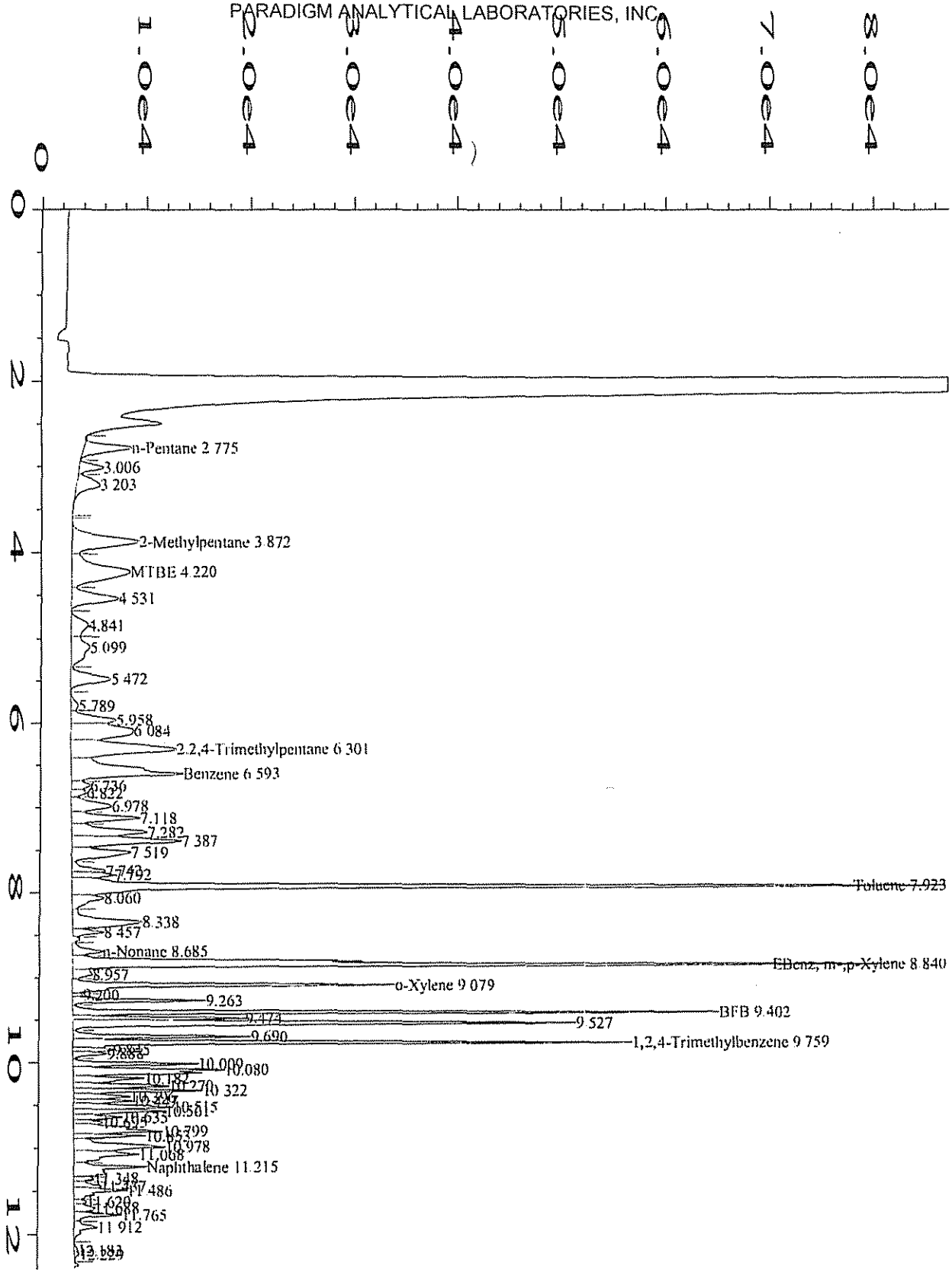

Data File Name	: C:\HPCHEM\1\DATA\vp100705\017F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 17
Sample Name	: g349-122-3e msd	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 07 Oct 05 06:47 PM	Instrument Method:	GAS1.MTH
Report Created on:	10 Oct 05 10:44 AM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

PARADIGM ANALYTICAL LABORATORIES, INC
External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp100705\017R0101.D
perator : DCS
nstrument : FID/PID
ample Name : g349-122-3e msd
un Time Bar Code:
cquired on : 07 Oct 05 06:47 PM
eport Created on: 10 Oct 05 10:44 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 17
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

ig. 2 in C:\HPCHEM\1\DATA\vp100705\017R0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.788	27116	VV	0.146	1	4.324	n-Pentane
3.880	40395	VV	0.155	1	4.278	2-Methylpentane
4.277	84957	VV	0.159	1	2.818	MTBE
6.310	93100	VV	0.138	1	6.119	2,2,4-Trimethylpentane
6.604	195964	VV	0.082	1	2.463	Benzene
7.926	541769	VV	0.081	1	13.277	Toluene
8.694	11108	VV	0.072	1	1.637	n-Nonane
8.841	447832	VV	0.072	1	13.240	ethbzene/m,p-xylene
9.080	123632	VV	0.055	1	3.192	o-Xylene
9.405	574993	VV	0.053	1	38.700	BFB(pid)
9.760	270075	VV	0.064	1	8.797	1,2,4-Trimethylbenzene
11.214	51009	VV	0.079	1	2.914	Naphthalene(pid)
1.488	949	BB	0.038		9.487	* uncalibrated *
1.619	1328	BB	0.052		13.276	* uncalibrated *
2.034	27771	BV	0.075		277.710	* uncalibrated *
2.156	9009	VV	0.075		90.089	* uncalibrated *
2.512	24304	VV	0.138		243.035	* uncalibrated *
3.011	28970	VV	0.088		289.697	* uncalibrated *
3.203	45198	VV	0.172		451.976	* uncalibrated *
4.067	9655	VV	0.082		96.549	* uncalibrated *
4.520	26282	VV	0.140		262.820	* uncalibrated *
4.840	26123	VV	0.158		261.228	* uncalibrated *
5.097	14204	VV	0.127		142.041	* uncalibrated *
5.215	13274	VV	0.118		132.740	* uncalibrated *
5.484	12963	VV	0.119		129.628	* uncalibrated *
5.802	5177	PV	0.113		51.767	* uncalibrated *
6.081	61713	VV	0.161		617.125	* uncalibrated *
6.819	9025	VV	0.072		90.249	* uncalibrated *
6.988	19353	VV	0.097		193.530	* uncalibrated *
7.124	39784	VV	0.075		397.844	* uncalibrated *
7.290	38810	VV	0.073		388.099	* uncalibrated *
7.389	62688	VV	0.085		626.878	* uncalibrated *
7.530	32885	VV	0.106		328.848	* uncalibrated *
7.746	23063	VV	0.090		230.626	* uncalibrated *
8.339	47543	VV	0.079		475.434	* uncalibrated *
8.459	12878	VV	0.072		128.779	* uncalibrated *
9.264	40806	VV	0.039		408.055	* uncalibrated *
9.530	238357	VV	0.050		2383.573	* uncalibrated *
10.010	37268	VV	0.036		372.682	* uncalibrated *
10.088	115399	VV	0.098		1153.987	* uncalibrated *
10.322	70079	VV	0.071		700.794	* uncalibrated *

ata File Name : C:\HPCHEM\1\DATA\vp100705\017R0101.D
perator : DCS
nstrument : FID/PID
ample Name : g349-122-3e msd
un Time Bar Code:
cquired on : 07 Oct 05 06:47 PM
eport Created on: 10 Oct 05 10:44 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 2
Vial Number : 17
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

10.396	37789	VV	0.088	377.887	* uncalibrated *
10.517	100127	VV	0.118	1001.268	* uncalibrated *
10.797	70510	VV	0.086	705.099	* uncalibrated *
10.977	53836	VV	0.068	538.359	* uncalibrated *
11.066	33734	VV	0.070	337.336	* uncalibrated *
11.485	39785	VV	0.086	397.849	* uncalibrated *
11.765	29663	VV	0.057	296.633	* uncalibrated *
11.911	14941	VV	0.062	149.414	* uncalibrated *
12.228	3406	PV	0.076	34.061	* uncalibrated *

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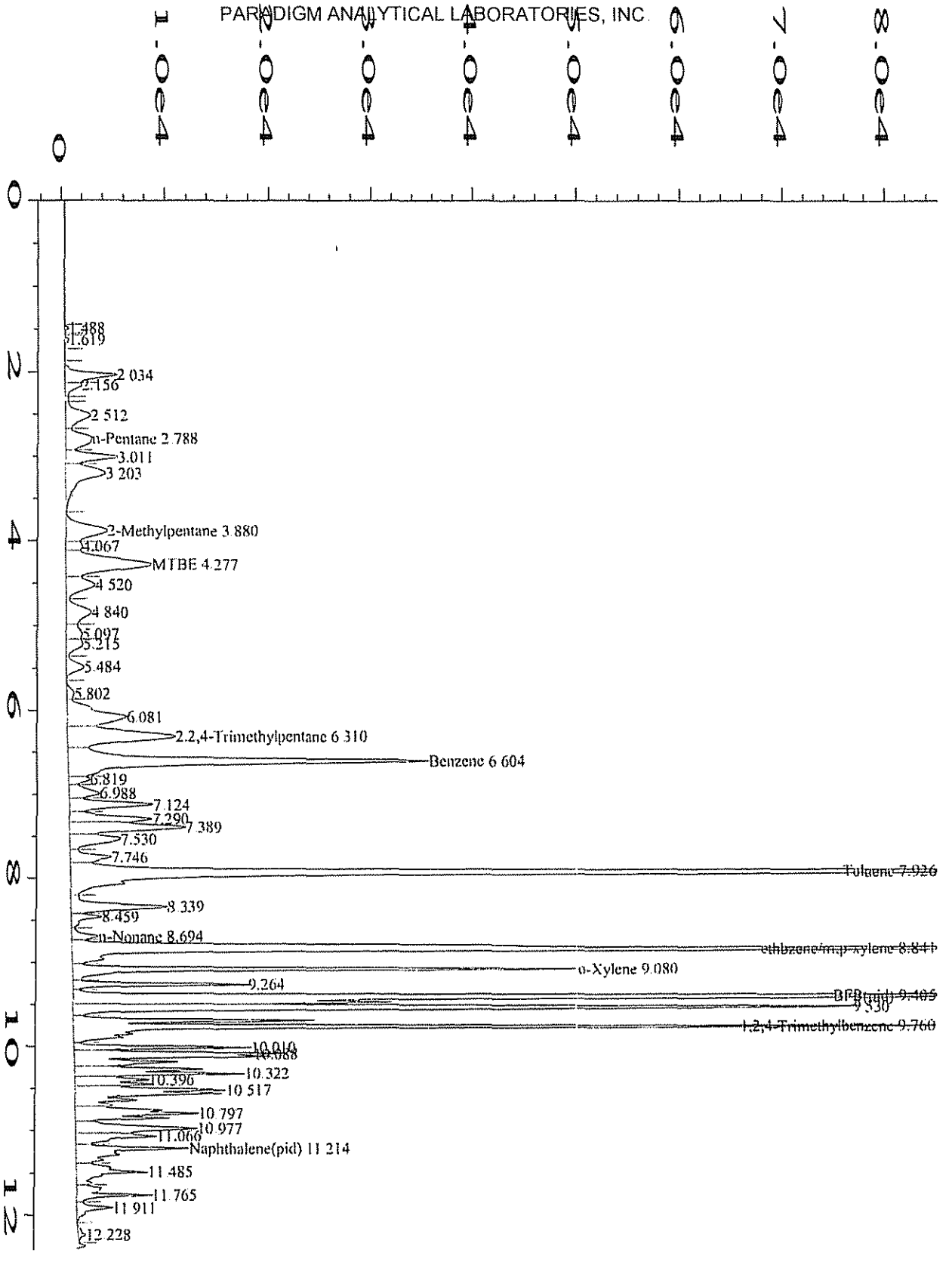

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Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 17
Sample Name	: g349-122-3e msd	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 07 Oct 05 06:47 PM	Instrument Method:	GAS1.MTH
Report Created on:	10 Oct 05 10:44 AM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

PARADIGM ANALYTICAL LABORATORIES, INC.
External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp101105\005F0101.D
perator : DCS
nstrument : FID/PID
ample Name : LCS4101105a x1
un Time Bar Code:
cquired on : 11 Oct 05 09:35 AM 455.72
eport Created on: 11 Oct 05 10:01 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 5
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

ig. 1 in C:\HPCHEM\1\DATA\vp101105\005F0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.781	57034	BV	0.089	1	56.888	n-Pentane
3.871	83350	BV	0.131	1	14.804	2-Methylpentane
4.209	79417	VV	0.169	1	186.166	MTBE
6.303	66922	VV	0.113	1	12.854	2,2,4-Trimethylpentane
6.592	72382	VV	0.092	1	9.174	Benzene
7.922	217626	VV	0.041	1	23.101	Toluene
8.682	12139	VV	0.056	1	3.046	n-Nonane
8.840	220993	VV	0.074	1	21.603	EBenz, m-,p-Xylene
9.079	76359	VV	0.052	1	7.581	o-Xylene
9.402	111133	PV	0.044	1	428.085	BFB
9.759	118329	VV	0.070	1	12.594	1,2,4-Trimethylbenzene
11.209	14381	VV	0.057	1	3.393	Naphthalene
3.008	20968	PV	0.073		209.677	* uncalibrated *
3.206	37314	VB	0.115		373.140	* uncalibrated *
4.529	43694	VV	0.110		436.940	* uncalibrated *
4.847	27889	VV	0.174		278.888	* uncalibrated *
5.095	17279	VV	0.119		172.794	* uncalibrated *
5.216	14188	VV	0.107		141.883	* uncalibrated *
5.472	29516	VV	0.106		295.160	* uncalibrated *
5.788	2196	PV	0.093		21.955	* uncalibrated *
5.955	25744	VV	0.086		257.442	* uncalibrated *
6.085	58964	VV	0.142		589.645	* uncalibrated *
6.733	11212	VV	0.073		112.115	* uncalibrated *
6.821	8594	VV	0.064		85.941	* uncalibrated *
6.976	20518	VV	0.106		205.177	* uncalibrated *
7.115	14081	VV	0.071		140.807	* uncalibrated *
7.280	28473	VV	0.073		284.735	* uncalibrated *
7.386	44814	VV	0.076		448.144	* uncalibrated *
7.523	26395	VV	0.087		263.950	* uncalibrated *
7.792	16948	VV	0.076		169.478	* uncalibrated *
8.063	8765	VV	0.111		87.646	* uncalibrated *
8.375	13156	PV	0.068		131.563	* uncalibrated *
8.459	7682	VV	0.064		76.817	* uncalibrated *
9.262	5837	VV	0.039		58.370	* uncalibrated *
9.528	121280	VV	0.050		1212.798	* uncalibrated *
9.893	6220	VV	0.066		62.199	* uncalibrated *
10.009	23299	VV	0.036		232.989	* uncalibrated *
10.107	56423	VV	0.074		564.234	* uncalibrated *
10.321	33088	VV	0.072		330.877	* uncalibrated *
10.559	47958	VV	0.128		479.577	* uncalibrated *
10.764	21065	VV	0.070		210.650	* uncalibrated *

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ample Name : LCS4101105a x1
un Time Bar Code:
cquired on : 11 Oct 05 09:35 AM
eport Created on: 11 Oct 05 10:01 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 2
Vial Number : 5
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

10.854	12724	VV	0.049	127.245	* uncalibrated *
10.977	27896	VV	0.122	278.961	* uncalibrated *
11.351	15740	VV	0.119	157.401	* uncalibrated *
11.532	8558	VV	0.079	85.578	* uncalibrated *
11.688	6525	VV	0.076	65.245	* uncalibrated *
11.765	8266	VV	0.069	82.659	* uncalibrated *
12.006	11576	VV	0.075	115.763	* uncalibrated *
12.261	3174	PV	0.073	31.745	* uncalibrated *

alibration table contains at least one peak with amt = 0

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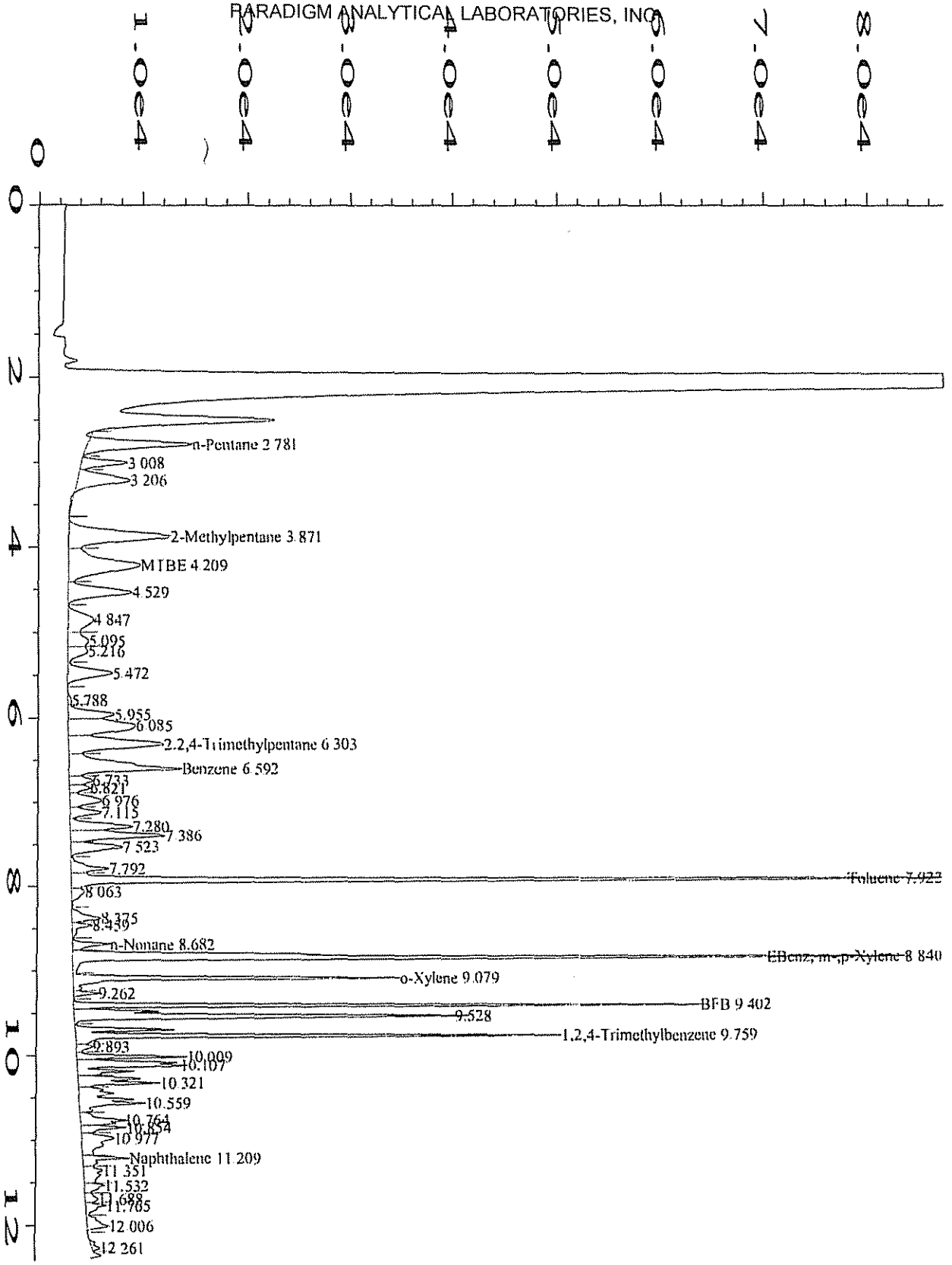

Data File Name	: C:\HPCHEM\1\DATA\vp101105\005F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 5
Sample Name	: LCS4101105a x1	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 11 Oct 05 09:35 AM	Instrument Method:	GAS1.MTH
Report Created on:	11 Oct 05 10:01 AM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

==========PARADIGM ANALYTICAL LABORATORIES, INC.==========

External Standard Report

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ata File Name : C:\HPCHEM\1\DATA\vp101105\005R0101.D
perator : DCS
nstrument : FID/PID
ample Name : LCS4101105a x1
un Time Bar Code:
cquired on : 11 Oct 05 09:35 AM
eport Created on: 11 Oct 05 10:01 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 5
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

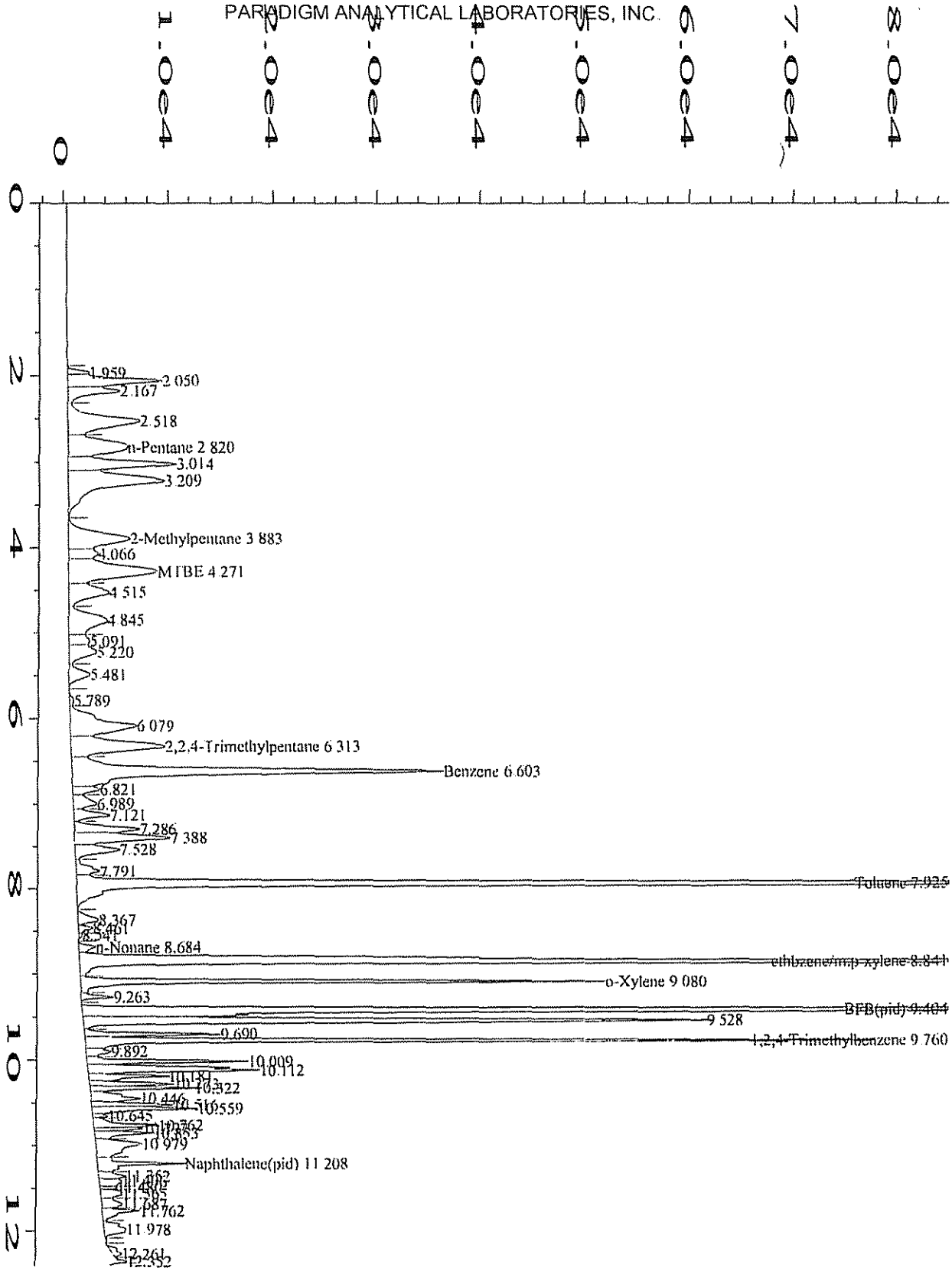
ig. 2 in C:\HPCHEM\1\DATA\vp101105\005R0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.820	60328	VV	0.128	1	9.620	n-Pentane
3.883	60000	VV	0.149	1	6.354	2-Methylpentane
4.271	89524	VV	0.158	1	2.970	MTBE
6.313	73595	VV	0.126	1	4.837	2,2,4-Trimethylpentane
6.603	195412	VV	0.080	1	2.456	Benzene
7.925	502944	VV	0.044	1	12.326	Toluene
8.684	6348	PV	0.055	1	0.935	n-Nonane
8.841	427807	VV	0.042	1	12.648	ethbzene/m,p-xylene
9.080	120630	VV	0.066	1	3.114	o-Xylene
9.404	512832	PV	0.035	1	34.516	BFB(pid)
9.760	164880	VV	0.036	1	5.370	1,2,4-Trimethylbenzene
11.208	27721	VV	0.056	1	1.584	Naphthalene(pid)
1.959	5974	BV	0.048		59.737	* uncalibrated *
2.050	47604	VV	0.077		476.043	* uncalibrated *
2.167	27037	VV	0.078		270.375	* uncalibrated *
2.518	67563	VV	0.130		675.628	* uncalibrated *
3.014	60807	VV	0.089		608.071	* uncalibrated *
3.209	96258	VV	0.137		962.576	* uncalibrated *
4.066	17778	VV	0.092		177.776	* uncalibrated *
4.515	35941	VV	0.138		359.413	* uncalibrated *
4.845	44312	VV	0.178		443.117	* uncalibrated *
5.091	13306	VV	0.095		133.064	* uncalibrated *
5.220	22315	VV	0.121		223.149	* uncalibrated *
5.481	15031	VV	0.115		150.306	* uncalibrated *
5.789	2441	PV	0.091		24.411	* uncalibrated *
6.079	65390	VV	0.141		653.896	* uncalibrated *
6.821	11756	VV	0.065		117.555	* uncalibrated *
6.989	15408	VV	0.095		154.080	* uncalibrated *
7.121	16297	VV	0.071		162.968	* uncalibrated *
7.286	28695	VV	0.070		286.946	* uncalibrated *
7.388	50021	VV	0.082		500.213	* uncalibrated *
7.528	24352	VV	0.091		243.520	* uncalibrated *
7.791	14018	VV	0.082		140.177	* uncalibrated *
8.367	10523	PV	0.080		105.229	* uncalibrated *
8.461	4613	VV	0.049		46.128	* uncalibrated *
8.541	1028	VV	0.052		10.277	* uncalibrated *
9.263	7769	VV	0.038		77.689	* uncalibrated *
9.528	192442	VV	0.053		1924.422	* uncalibrated *
9.690	28275	VV	0.034		282.747	* uncalibrated *
9.892	9710	VV	0.059		97.104	* uncalibrated *
10.009	35170	VV	0.035		351.698	* uncalibrated *

ata File Name : C:\HPCHEM\1\DATA\vp101105\005R0101.D
perator : DCS
nstrument : FID/PID
ample Name : LCS4101105a x1
an Time Bar Code:
cquired on : 11 Oct 05 09:35 AM
eport Created on: 11 Oct 05 10:01 AM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 2
Vial Number : 5
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

10.112	63123	VV	0.053	631.225	* uncalibrated *
10.181	20282	VV	0.044	202.820	* uncalibrated *
10.273	21126	VV	0.044	211.256	* uncalibrated *
10.322	22104	VV	0.033	221.036	* uncalibrated *
10.446	20484	VV	0.073	204.839	* uncalibrated *
10.516	18292	VV	0.039	182.916	* uncalibrated *
10.559	26482	VV	0.057	264.820	* uncalibrated *
10.645	3157	VV	0.036	31.567	* uncalibrated *
10.762	19183	VV	0.051	191.829	* uncalibrated *
10.797	9818	VV	0.035	98.175	* uncalibrated *
10.853	16521	VV	0.049	165.210	* uncalibrated *
10.979	33470	VV	0.105	334.698	* uncalibrated *
11.352	9286	VV	0.060	92.859	* uncalibrated *
11.406	9491	VV	0.073	94.909	* uncalibrated *
11.480	3351	VV	0.034	33.514	* uncalibrated *
11.565	11235	VV	0.072	112.353	* uncalibrated *
11.687	10193	VV	0.078	101.933	* uncalibrated *
11.762	12493	VV	0.056	124.928	* uncalibrated *
11.978	15515	VV	0.111	155.153	* uncalibrated *
12.261	4266	PV	0.071	42.665	* uncalibrated *
12.352	1284	PBA	0.028	12.841	* uncalibrated *



Data File Name	: C:\HPCHEM\1\DATA\vp101105\005R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 5
Sample Name	: LCS4101105a x1	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 11 Oct 05 09:35 AM	Instrument Method:	GAS1.MTH
Report Created on:	11 Oct 05 10:01 AM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp101105\006F0101.D
perator : DCS
nstrument : FID/PID
ample Name : VBLK4101105a x1
un Time Bar Code:
cquired on : 11 Oct 05 09:59 AM
eport Created on: 11 Oct 05 03:07 PM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 6
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

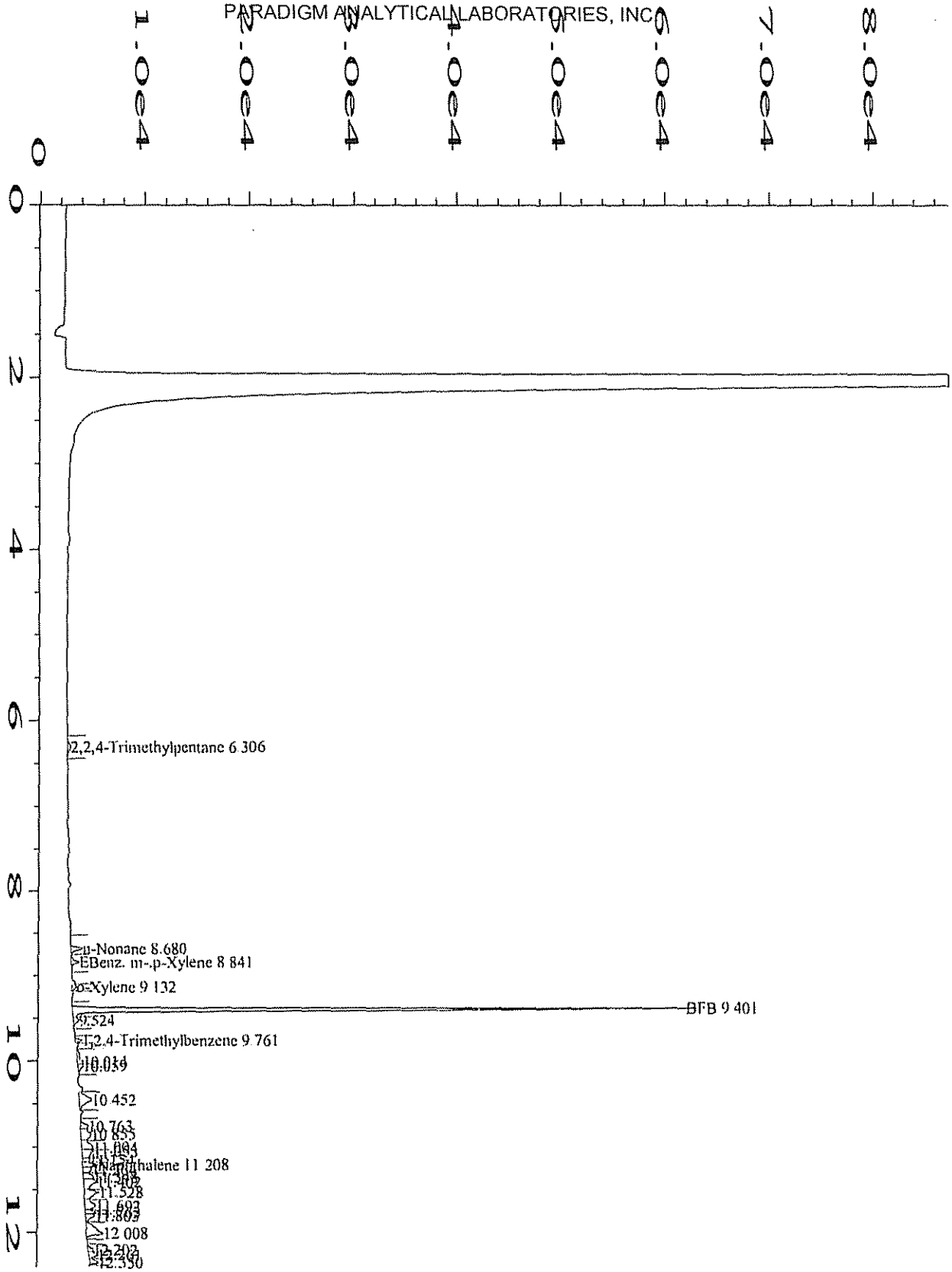
ig. 1 in C:\HPCHEM\1\DATA\vp101105\006F0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.778	* not found *			1		n-Pentane
3.864	* not found *			1		2-Methylpentane
4.282	* not found *			1		MTBE
6.306	1741	BB	0.088	1	0.334	2,2,4-Trimethylpentane
6.600	* not found *			1		Benzene
7.926	* not found *			1		Toluene
8.680	2762	BV	0.038	1	0.693	n-Nonane
8.841	2335	VB	0.045	1	0.228	EBenz, m-,p-Xylene
9.132	1498	VV	0.050	1	0.149	o-Xylene
9.401	108595	PV	0.028	1	418.309	BFB
9.761	1430	VV	0.035	1	0.152	1,2,4-Trimethylbenzene
11.208	3836	VV	0.036	1	0.905	Naphthalene
9.524	2020	VV	0.054		20.196	* uncalibrated *
10.014	2980	VV	0.072		29.805	* uncalibrated *
10.059	1800	VB	0.054		18.001	* uncalibrated *
10.452	7683	VV	0.085		76.830	* uncalibrated *
10.763	2707	PV	0.049		27.074	* uncalibrated *
10.855	6490	VV	0.081		64.897	* uncalibrated *
11.004	5702	VV	0.071		57.022	* uncalibrated *
11.053	5167	VV	0.061		51.669	* uncalibrated *
11.154	1881	VV	0.045		18.805	* uncalibrated *
11.264	3112	VV	0.050		31.121	* uncalibrated *
11.348	3545	VV	0.051		35.446	* uncalibrated *
11.402	6558	VV	0.068		65.582	* uncalibrated *
11.528	6530	VV	0.061		65.296	* uncalibrated *
11.692	5643	VV	0.073		56.432	* uncalibrated *
11.763	2489	VV	0.033		24.893	* uncalibrated *
11.803	3116	VV	0.047		31.156	* uncalibrated *
12.008	9288	VV	0.072		92.877	* uncalibrated *
12.202	1449	VV	0.042		14.492	* uncalibrated *
12.261	2662	VV	0.049		26.624	* uncalibrated *
12.350	2321	VBA	0.046		23.211	* uncalibrated *

Calibration table contains at least one peak with amt = 0

Not all calibrated peaks were found

ata File Name	: C:\HPCHEM\1\DATA\vp101105\006F0101.D		
perator	: DCS	Page Number	: 2
nstrument	: FID/PID	Vial Number	: 6
ample Name	: VBLK4101105a x1	Injection Number	: 1
un Time Bar Code	:	Sequence Line	: 1
cquired on	: 11 Oct 05 09:59 AM	Instrument Method	: GAS1.MTH
eport Created on	: 11 Oct 05 03:07 PM	Analysis Method	: VPH_FID.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:



Data File Name	: C:\HPCHEM\1\DATA\vp101105\006F0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 6
Sample Name	: VBLK4101105a x1	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 11 Oct 05 09:59 AM	Instrument Method:	GAS1.MTH
Report Created on:	11 Oct 05 03:07 PM	Analysis Method	: VPH_FID.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

PARADIGM ANALYTICAL LABORATORIES, INC
External Standard Report

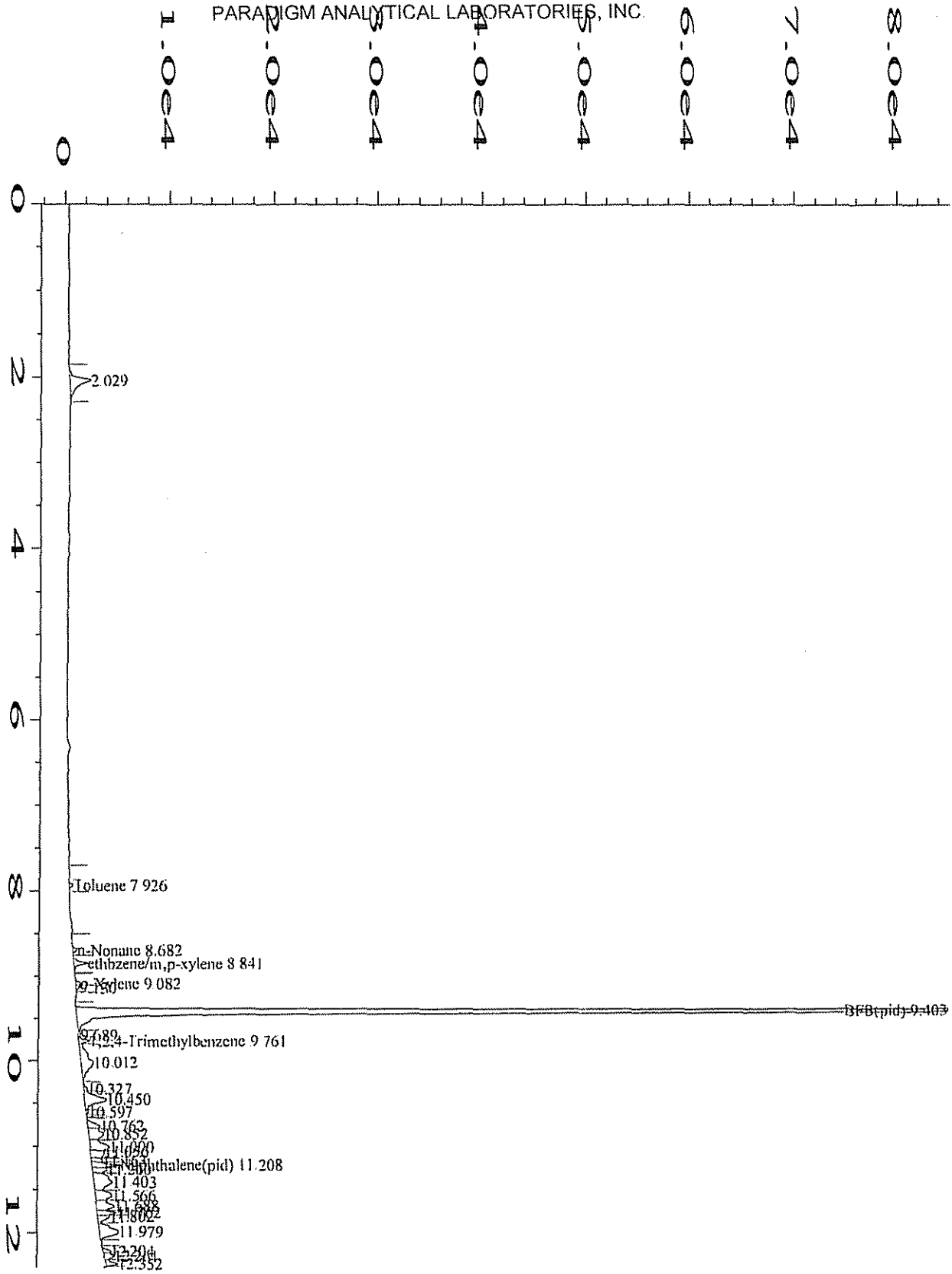
ata File Name : C:\HPCHEM\1\DATA\vp101105\006R0101.D
perator : DCS
nstrument : FID/PID
ample Name : VBLK4101105a x1
un Time Bar Code:
cquired on : 11 Oct 05 09:59 AM
eport Created on: 11 Oct 05 03:07 PM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 6
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

ig. 2 in C:\HPCHEM\1\DATA\vp101105\006R0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.829	* not found *			1		n-Pentane
3.878	* not found *			1		2-Methylpentane
4.267	* not found *			1		MTBE
6.312	* not found *			1		2,2,4-Trimethylpentane
6.603	* not found *			1		Benzene
7.926	1062	BB	0.043	1	0.0260	Toluene
8.682	918	BV	0.034	1	0.135	n-Nonane
8.841	3823	PB	0.042	1	0.113	ethbzene/m,p-xylene
9.082	1134	BV	0.038	1	0.0293	o-Xylene
9.403	480260	BV	0.033	1	32.324	BFB(pid)
9.761	2649	VV	0.037	1	0.0863	1,2,4-Trimethylbenzene
11.208	7083	VV	0.037	1	0.405	Naphthalene(pid)
2.029	12533	BV	0.083		125.328	* uncalibrated *
9.130	835	VV	0.039		8.353	* uncalibrated *
9.689	864	VV	0.055		8.636	* uncalibrated *
10.012	15645	VV	0.160		156.446	* uncalibrated *
10.327	1092	PV	0.044		10.920	* uncalibrated *
10.450	12895	VV	0.086		128.946	* uncalibrated *
10.597	439	VV	0.031		4.387	* uncalibrated *
10.762	4396	PV	0.053		43.960	* uncalibrated *
10.852	8925	VV	0.082		89.247	* uncalibrated *
11.000	10124	VV	0.082		101.235	* uncalibrated *
11.056	6265	VV	0.079		62.652	* uncalibrated *
11.163	2928	VV	0.046		29.282	* uncalibrated *
11.260	4429	VV	0.053		44.288	* uncalibrated *
11.403	15158	VV	0.109		151.576	* uncalibrated *
11.566	9120	VV	0.075		91.199	* uncalibrated *
11.688	9034	VV	0.071		90.341	* uncalibrated *
11.762	4608	VV	0.036		46.084	* uncalibrated *
11.802	3794	VV	0.053		37.944	* uncalibrated *
11.979	12649	VV	0.095		126.486	* uncalibrated *
12.204	1805	PV	0.037		18.053	* uncalibrated *
12.261	3567	VV	0.053		35.668	* uncalibrated *
12.352	3376	VBA	0.044		33.755	* uncalibrated *

Not all calibrated peaks were found



Data File Name	: C:\HPCHEM\1\DATA\vp101105\006R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 6
Sample Name	: VBLK4101105a x1	Injection Number	: 1
Run Time Bar Code	:	Sequence Line	: 1
Acquired on	: 11 Oct 05 09:59 AM	Instrument Method	: GAS1.MTH
Report Created on	: 11 Oct 05 03:07 PM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

==========PARADIGM ANALYTICAL LABORATORIES, INC.==========

External Standard Report

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ata File Name : C:\HPCHEM\1\DATA\vp101105\008F0101.D
perator : DCS
nstrument : FID/PID
ample Name : g537-178-1a ms
un Time Bar Code:
cquired on : 11 Oct 05 10:48 AM 416.86
eport Created on: 11 Oct 05 03:07 PM 421.26
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 8
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

ig. 1 in C:\HPCHEM\1\DATA\vp101105\008F0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.774	29439	BV	0.083	1	29.364	n-Pentane
3.870	59794	PV	0.118	1	10.620	2-Methylpentane
4.207	56602	VV	0.157	1	132.683	MTBE
6.304	59334	VV	0.112	1	11.396	2,2,4-Trimethylpentane
6.593	65575	VV	0.093	1	8.311	Benzene
7.922	201563	VV	0.040	1	21.396	Toluene
8.680	7681	VV	0.054	1	1.927	n-Nonane
8.839	207711	VV	0.060	1	20.305	EBenz, m-,p-Xylene
9.078	71491	VV	0.037	1	7.098	o-Xylene
9.401	108338	PV	0.030	1	417.319	BFB
9.758	98759	VV	0.033	1	10.511	1,2,4-Trimethylbenzene
11.208	9843	VV	0.045	1	2.323	Naphthalene
3.004	10661	PV	0.071		106.612	* uncalibrated *
3.203	13708	PV	0.076		137.079	* uncalibrated *
4.529	34845	VV	0.110		348.445	* uncalibrated *
4.844	21800	PV	0.169		217.995	* uncalibrated *
5.094	14711	VV	0.122		147.109	* uncalibrated *
5.214	10450	VV	0.102		104.503	* uncalibrated *
5.472	22870	VV	0.107		228.702	* uncalibrated *
5.789	2058	PV	0.093		20.576	* uncalibrated *
5.956	22856	VV	0.085		228.558	* uncalibrated *
6.084	52937	VV	0.124		529.367	* uncalibrated *
6.733	9963	VV	0.072		99.627	* uncalibrated *
6.821	7859	VV	0.064		78.585	* uncalibrated *
6.978	19272	VV	0.105		192.716	* uncalibrated *
7.114	13710	VV	0.071		137.104	* uncalibrated *
7.280	26663	VV	0.073		266.631	* uncalibrated *
7.386	42151	VV	0.075		421.511	* uncalibrated *
7.521	24767	VV	0.088		247.666	* uncalibrated *
7.792	15952	VV	0.063		159.516	* uncalibrated *
8.059	8260	VV	0.094		82.604	* uncalibrated *
8.376	12998	VV	0.062		129.984	* uncalibrated *
8.458	5769	VV	0.043		57.687	* uncalibrated *
8.541	1311	VV	0.048		13.107	* uncalibrated *
9.201	2893	VV	0.040		28.932	* uncalibrated *
9.262	5902	VV	0.038		59.023	* uncalibrated *
9.525	121865	VV	0.047		1218.652	* uncalibrated *
9.689	20519	VV	0.034		205.193	* uncalibrated *
9.890	2823	VV	0.043		28.232	* uncalibrated *
10.008	20526	PV	0.034		205.265	* uncalibrated *
10.112	42389	VV	0.053		423.894	* uncalibrated *

ata File Name : C:\HPCHEM\1\DATA\vp101105\008F0101.D
perator : DCS
nstrument : FID/PID
ample Name : g537-178-1a ms
un Time Bar Code:
cquired on : 11 Oct 05 10:48 AM
eport Created on: 11 Oct 05 03:07 PM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 2
Vial Number : 8
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

10.180	13883	VV	0.044	138.825	* uncalibrated *
10.271	14903	VV	0.040	149.029	* uncalibrated *
10.322	16837	VV	0.032	168.371	* uncalibrated *
10.400	5258	VV	0.043	52.575	* uncalibrated *
10.447	5105	VV	0.038	51.052	* uncalibrated *
10.516	12503	VV	0.039	125.030	* uncalibrated *
10.559	20375	VV	0.049	203.752	* uncalibrated *
10.643	4381	VV	0.038	43.814	* uncalibrated *
10.761	9320	VV	0.038	93.198	* uncalibrated *
10.800	7765	VV	0.041	77.654	* uncalibrated *
10.854	12617	VV	0.051	126.168	* uncalibrated *
10.966	16964	VV	0.070	169.644	* uncalibrated *
11.063	10897	VV	0.076	108.974	* uncalibrated *
11.159	8216	VV	0.064	82.164	* uncalibrated *
11.271	7363	VV	0.055	73.626	* uncalibrated *
11.354	9059	VV	0.057	90.590	* uncalibrated *
11.403	7552	VV	0.041	75.522	* uncalibrated *
11.477	10598	VV	0.050	105.981	* uncalibrated *
11.530	11414	VV	0.076	114.136	* uncalibrated *
11.762	31384	VV	0.108	313.842	* uncalibrated *
11.911	5997	VV	0.048	59.974	* uncalibrated *
11.995	8864	VV	0.072	88.636	* uncalibrated *
12.203	7781	PV	0.052	77.813	* uncalibrated *

alibration table contains at least one peak with amt = 0

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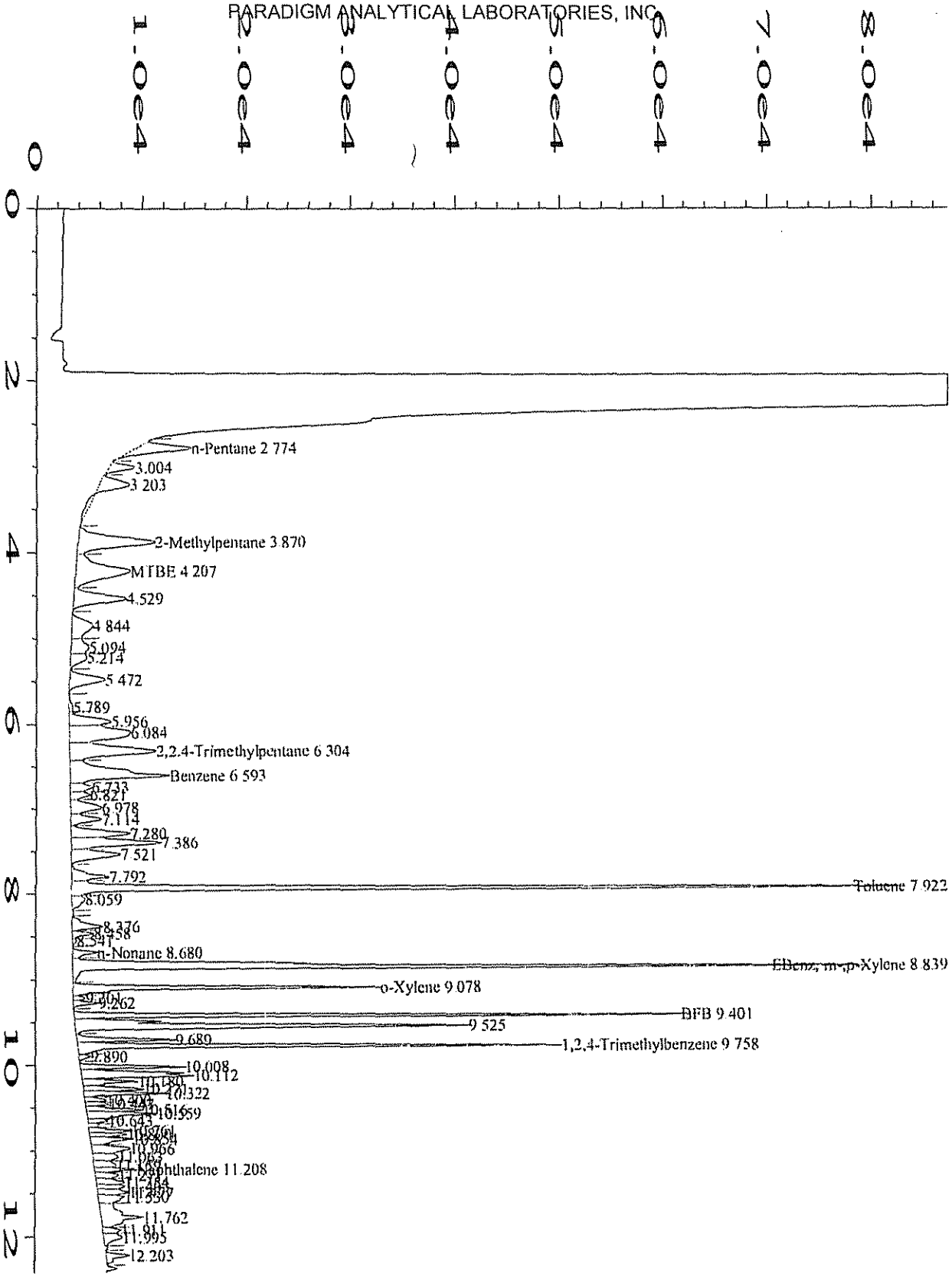

ata File Name	: C:\HPCHEM\1\DATA\vp101105\008F0101.D		
perator	: DCS	Page Number	: 1
nstrument	: FID/PID	Vial Number	: 8
ample Name	: g537-178-1a ms	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 11 Oct 05 10:48 AM	Instrument Method:	GAS1.MTH
eport Created on:	11 Oct 05 03:07 PM	Analysis Method	: VPH_FID.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

PARADIGM ANALYTICAL LABORATORIES, INC

External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp101105\008R0101.D
perator : DCS
nstrument : FID/PID
ample Name : g537-178-1a ms
an Time Bar Code:
cquired on : 11 Oct 05 10:48 AM
eport Created on: 11 Oct 05 03:07 PM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 8
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

ig. 2 in C:\HPCHEM\1\DATA\vp101105\008R0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.829	42165	VV	0.135	1	6.724	n-Pentane
3.885	50582	VV	0.153	1	5.356	2-Methylpentane
4.275	73635	VV	0.167	1	2.443	MTBE
6.315	70401	VV	0.127	1	4.627	2,2,4-Trimethylpentane
6.604	180331	VV	0.082	1	2.267	Benzene
7.925	469211	VV	0.045	1	11.499	Toluene
8.682	4687	PV	0.057	1	0.690	n-Nonane
8.841	400473	VV	0.042	1	11.840	ethbzene/m,p-xylene
9.079	112781	VV	0.049	1	2.912	o-Xylene
9.403	501439	PV	0.035	1	33.749	BFB(pid)
9.759	162044	VV	0.036	1	5.278	1,2,4-Trimethylbenzene
11.208	24699	VV	0.060	1	1.411	Naphthalene(pid)
2.122	185546	BV	0.108		1855.456	* uncalibrated *
2.510	45877	VV	0.146		458.768	* uncalibrated *
3.013	43719	VV	0.091		437.186	* uncalibrated *
3.207	70524	VV	0.155		705.240	* uncalibrated *
4.066	14414	VV	0.090		144.137	* uncalibrated *
4.516	31576	VV	0.141		315.759	* uncalibrated *
4.844	37651	VV	0.172		376.513	* uncalibrated *
5.093	13191	VV	0.103		131.914	* uncalibrated *
5.220	18740	VV	0.122		187.402	* uncalibrated *
5.483	12801	VV	0.115		128.009	* uncalibrated *
5.789	2092	PV	0.096		20.922	* uncalibrated *
6.080	61636	VV	0.159		616.361	* uncalibrated *
6.821	11008	VV	0.065		110.082	* uncalibrated *
6.989	15890	VV	0.096		158.904	* uncalibrated *
7.121	17736	VV	0.074		177.363	* uncalibrated *
7.287	28849	VV	0.070		288.494	* uncalibrated *
7.389	50646	VV	0.083		506.459	* uncalibrated *
7.528	24760	VV	0.092		247.602	* uncalibrated *
7.791	14976	VV	0.084		149.762	* uncalibrated *
8.369	11518	VV	0.082		115.176	* uncalibrated *
8.460	5030	VV	0.049		50.302	* uncalibrated *
9.202	2072	VV	0.038		20.725	* uncalibrated *
9.263	7768	VV	0.039		77.682	* uncalibrated *
9.527	190065	VV	0.053		1900.654	* uncalibrated *
9.689	28035	VV	0.035		280.346	* uncalibrated *
9.890	3889	VV	0.045		38.895	* uncalibrated *
10.008	28667	VV	0.032		286.674	* uncalibrated *
10.112	61444	VV	0.052		614.440	* uncalibrated *
10.180	18756	VV	0.042		187.557	* uncalibrated *

ıta File Name : C:\HPCHEM\1\DATA\vp101105\008R0101.D
)erator : DCS
ıstrument : FID/PID
ımple Name : g537-178-1a ms
ın Time Bar Code:
:quired on : 11 Oct 05 10:48 AM
ɜport Created on: 11 Oct 05 03:07 PM
ast Recalib on : 24 AUG 04 09:09 AM
ıltiplier : 1

Page Number : 2
Vial Number : 8
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

10.272	19268	VV	0.042	192.684	* uncalibrated *
10.322	20495	VV	0.032	204.946	* uncalibrated *
10.402	4428	VV	0.038	44.283	* uncalibrated *
10.447	6351	VV	0.038	63.507	* uncalibrated *
10.517	17353	VV	0.037	173.532	* uncalibrated *
10.559	28189	VV	0.058	281.895	* uncalibrated *
10.643	3835	VV	0.036	38.348	* uncalibrated *
10.698	1702	VV	0.034	17.019	* uncalibrated *
10.762	12202	VV	0.038	122.015	* uncalibrated *
10.799	9665	VV	0.040	96.647	* uncalibrated *
10.854	14352	VV	0.047	143.517	* uncalibrated *
10.969	22357	VV	0.073	223.572	* uncalibrated *
11.069	13117	VV	0.062	131.167	* uncalibrated *
11.270	9479	VV	0.054	94.791	* uncalibrated *
11.355	12127	VV	0.056	121.266	* uncalibrated *
11.403	10103	VV	0.042	101.029	* uncalibrated *
11.478	14630	VV	0.053	146.297	* uncalibrated *
11.561	18090	VV	0.080	180.895	* uncalibrated *
11.761	44369	VV	0.095	443.688	* uncalibrated *
11.910	9948	VV	0.054	99.481	* uncalibrated *
11.986	13301	VV	0.075	133.010	* uncalibrated *
12.203	12782	PV	0.052	127.824	* uncalibrated *
12.354	1311	PBA	0.022	13.107	* uncalibrated *

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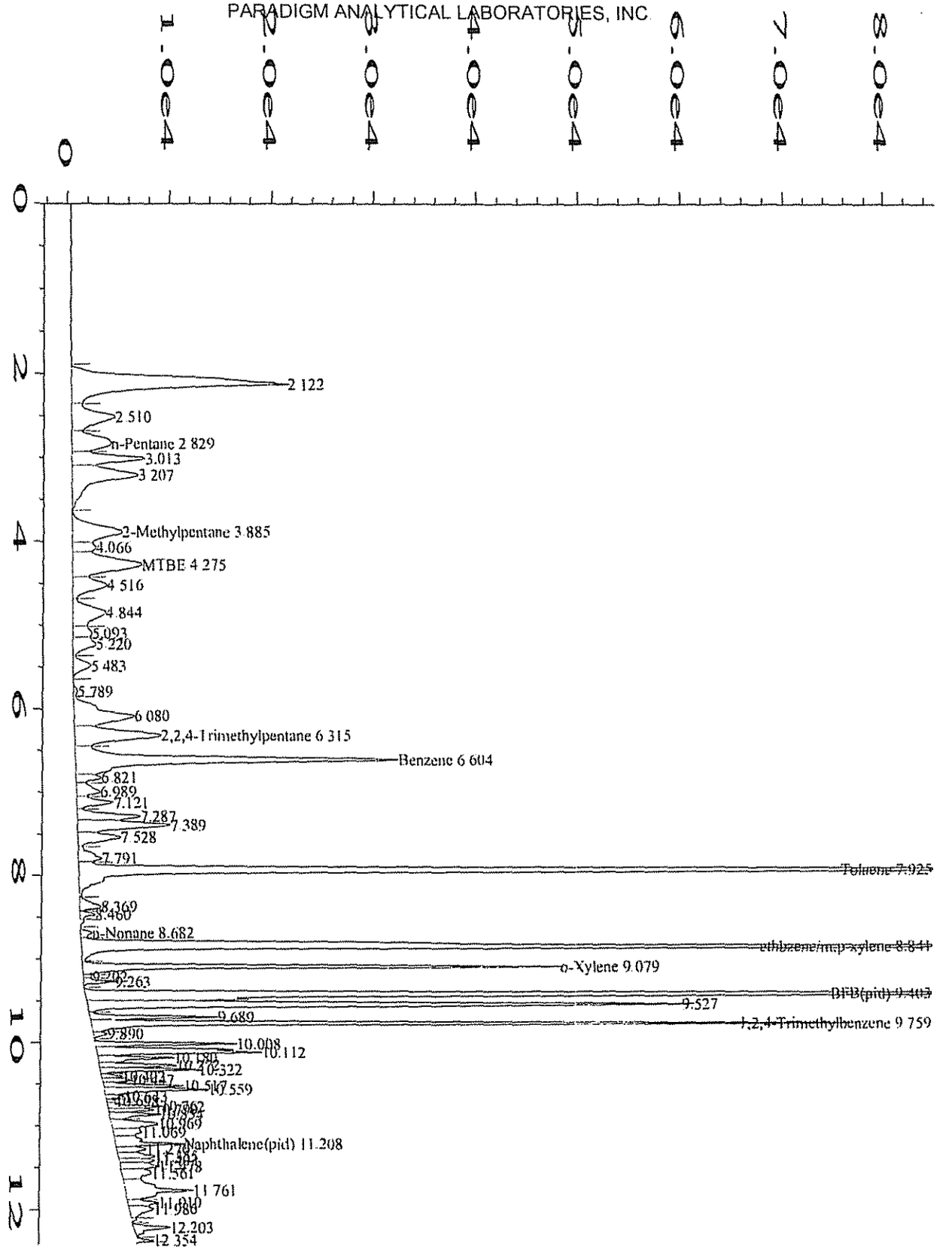

Data File Name	: C:\HPCHEM\1\DATA\vp101105\008R0101.D		
Operator	: DCS	Page Number	: 1
Instrument	: FID/PID	Vial Number	: 8
Sample Name	: g537-178-1a ms	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 11 Oct 05 10:48 AM	Instrument Method:	GAS1.MTH
Report Created on:	11 Oct 05 03:07 PM	Analysis Method	: vph_pid.MTH
Last Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

==========PARADIGM ANALYTICAL LABORATORIES, INC.==========

External Standard Report

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ata File Name : C:\HPCHEM\1\DATA\vp101105\009F0101.D
perator : DCS
nstrument : FID/PID
ample Name : g537-178-1a msd
un Time Bar Code:
cquired on : 11 Oct 05 11:13 AM
eport Created on: 11 Oct 05 03:08 PM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 9
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

ig. 1 in C:\HPCHEM\1\DATA\vp101105\009F0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.771	29130	BV	0.084	1	29.056	n-Pentane
3.871	57895	VV	0.121	1	10.283	2-Methylpentane
4.208	57617	VV	0.162	1	135.063	MTBE
6.304	60029	VV	0.112	1	11.530	2,2,4-Trimethylpentane
6.593	66344	VV	0.093	1	8.408	Benzene
7.922	202810	VV	0.040	1	21.529	Toluene
8.680	7926	VV	0.054	1	1.989	n-Nonane
8.840	209716	VV	0.059	1	20.501	EBenz, m-,p-Xylene
9.079	72672	VV	0.047	1	7.215	o-Xylene
9.402	108662	PV	0.030	1	418.565	BFB
9.759	99679	VV	0.045	1	10.609	1,2,4-Trimethylbenzene
11.209	9625	VV	0.035	1	2.271	Naphthalene
3.002	11635	PV	0.068		116.352	* uncalibrated *
3.203	15383	PV	0.084		153.835	* uncalibrated *
3.728	1671	PV	0.035		16.706	* uncalibrated *
4.530	34982	VV	0.107		349.820	* uncalibrated *
4.846	21811	PV	0.165		218.113	* uncalibrated *
5.096	14893	VV	0.121		148.932	* uncalibrated *
5.214	10674	VV	0.102		106.737	* uncalibrated *
5.472	23747	VV	0.105		237.474	* uncalibrated *
5.790	1985	PV	0.095		19.852	* uncalibrated *
5.956	22906	VV	0.085		229.064	* uncalibrated *
6.085	53599	VV	0.144		535.994	* uncalibrated *
6.733	9936	VV	0.072		99.356	* uncalibrated *
6.822	7784	VV	0.063		77.838	* uncalibrated *
6.978	19251	VV	0.104		192.514	* uncalibrated *
7.115	13652	VV	0.070		136.517	* uncalibrated *
7.280	26814	VV	0.072		268.143	* uncalibrated *
7.387	42715	VV	0.075		427.150	* uncalibrated *
7.522	25215	VV	0.088		252.145	* uncalibrated *
7.792	15982	VV	0.062		159.821	* uncalibrated *
8.058	8425	VV	0.093		84.246	* uncalibrated *
8.377	13595	VV	0.062		135.954	* uncalibrated *
8.458	6264	VV	0.044		62.645	* uncalibrated *
8.541	1398	VV	0.052		13.984	* uncalibrated *
9.201	3073	VV	0.040		30.735	* uncalibrated *
9.262	5907	VV	0.038		59.070	* uncalibrated *
9.526	122640	VV	0.054		1226.395	* uncalibrated *
9.690	20669	VV	0.034		206.689	* uncalibrated *
9.891	3098	VV	0.046		30.975	* uncalibrated *
10.009	20759	PV	0.032		207.589	* uncalibrated *

ata File Name : C:\HPCHEM\1\DATA\vp101105\009F0101.D
perator : DCS
nstrument : FID/PID
ample Name : g537-178-1a msd
un Time Bar Code:
cquired on : 11 Oct 05 11:13 AM
eport Created on: 11 Oct 05 03:08 PM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 2
Vial Number : 9
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : VPH_FID.MTH
Sample Amount : 0
ISTD Amount :

10.113	42175	VV	0.053	421.752	* uncalibrated *
10.181	14055	VV	0.043	140.551	* uncalibrated *
10.272	14986	VV	0.043	149.862	* uncalibrated *
10.322	16913	VV	0.033	169.132	* uncalibrated *
10.401	5266	VV	0.043	52.657	* uncalibrated *
10.447	4925	VV	0.037	49.252	* uncalibrated *
10.517	11640	VV	0.037	116.400	* uncalibrated *
10.559	20519	VV	0.049	205.191	* uncalibrated *
10.644	4250	VV	0.038	42.496	* uncalibrated *
10.697	2552	VV	0.043	25.518	* uncalibrated *
10.761	9386	VV	0.038	93.860	* uncalibrated *
10.800	7444	VV	0.036	74.440	* uncalibrated *
10.854	11914	VV	0.048	119.139	* uncalibrated *
10.968	16520	VV	0.069	165.198	* uncalibrated *
11.067	9932	VV	0.067	99.315	* uncalibrated *
11.160	7270	VV	0.061	72.699	* uncalibrated *
11.271	6279	VV	0.053	62.788	* uncalibrated *
11.354	9019	VV	0.060	90.186	* uncalibrated *
11.403	6526	VV	0.038	65.256	* uncalibrated *
11.478	9907	VV	0.056	99.073	* uncalibrated *
11.531	10423	VV	0.073	104.230	* uncalibrated *
11.763	30220	VV	0.086	302.205	* uncalibrated *
11.911	7267	VV	0.051	72.671	* uncalibrated *
11.993	6725	VV	0.064	67.250	* uncalibrated *
12.204	8163	PV	0.051	81.628	* uncalibrated *

alibration table contains at least one peak with amt = 0

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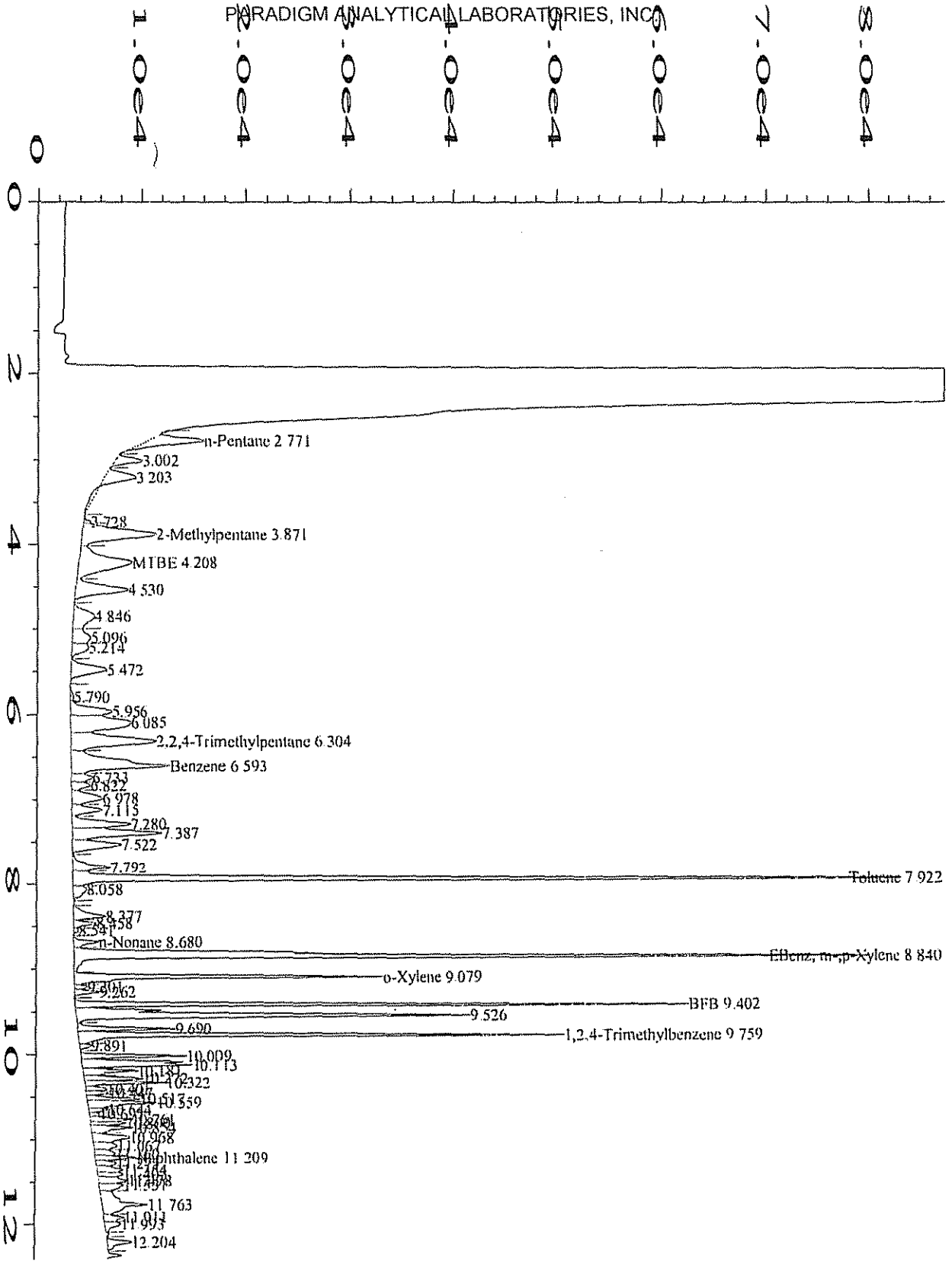


ata File Name	: C:\HPCHEM\1\DATA\vp101105\009F0101.D		
perator	: DCS	Page Number	: 1
nstrument	: FID/PID	Vial Number	: 9
ample Name	: g537-178-1a msd	Injection Number	: 1
un Time Bar Code	:	Sequence Line	: 1
cquired on	: 11 Oct 05 11:13 AM	Instrument Method	: GAS1.MTH
eport Created on	: 11 Oct 05 03:08 PM	Analysis Method	: VPH_FID.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

PARADIGM ANALYTICAL LABORATORIES, INC.
External Standard Report

ata File Name : C:\HPCHEM\1\DATA\vp101105\009R0101.D
perator : DCS
nstrument : FID/PID
ample Name : g537-178-1a msd
un Time Bar Code:
cquired on : 11 Oct 05 11:13 AM
eport Created on: 11 Oct 05 03:08 PM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 1
Vial Number : 9
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

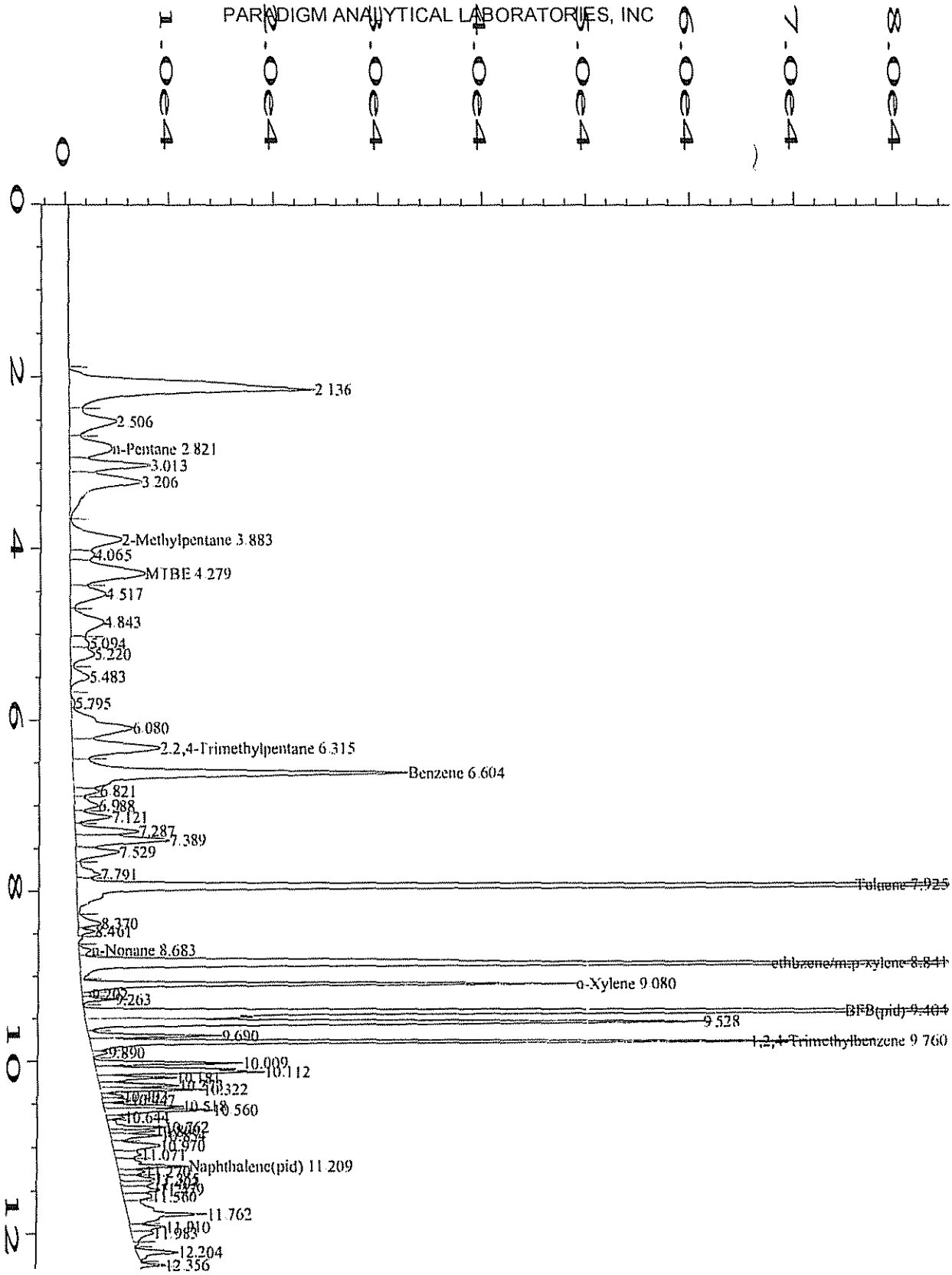
ig. 2 in C:\HPCHEM\1\DATA\vp101105\009R0101.D

et Time	Area	Type	Width	Ref#	ug/L	Name
2.821	44939	VV	0.143	1	7.166	n-Pentane
3.883	52075	VV	0.139	1	5.515	2-Methylpentane
4.279	78163	VV	0.165	1	2.593	MTBE
6.315	69859	VV	0.127	1	4.591	2,2,4-Trimethylpentane
6.604	182018	VV	0.082	1	2.288	Benzene
7.925	468290	VV	0.045	1	11.477	Toluene
8.683	5029	PV	0.057	1	0.741	n-Nonane
8.841	404079	VV	0.042	1	11.946	ethbzene/m,p-xylene
9.080	114727	VV	0.049	1	2.962	o-Xylene
9.404	502357	PV	0.035	1	33.811	BFB(pid)
9.760	164506	VV	0.036	1	5.358	1,2,4-Trimethylbenzene
11.209	23625	VV	0.056	1	1.350	Naphthalene(pid)
2.136	211641	BV	0.113		2116.413	* uncalibrated *
2.506	48463	VV	0.139		484.630	* uncalibrated *
3.013	47314	VV	0.090		473.141	* uncalibrated *
3.206	76686	VV	0.153		766.858	* uncalibrated *
4.065	14613	VV	0.090		146.125	* uncalibrated *
4.517	32274	VV	0.142		322.741	* uncalibrated *
4.843	38742	VV	0.173		387.424	* uncalibrated *
5.094	12827	VV	0.101		128.267	* uncalibrated *
5.220	19365	VV	0.123		193.654	* uncalibrated *
5.483	13390	VV	0.116		133.900	* uncalibrated *
5.795	2255	PV	0.095		22.547	* uncalibrated *
6.080	61587	VV	0.143		615.868	* uncalibrated *
6.821	11242	VV	0.065		112.423	* uncalibrated *
6.988	15820	VV	0.094		158.198	* uncalibrated *
7.121	17438	VV	0.073		174.380	* uncalibrated *
7.287	28558	VV	0.070		285.582	* uncalibrated *
7.389	50088	VV	0.083		500.881	* uncalibrated *
7.529	24613	VV	0.093		246.131	* uncalibrated *
7.791	14760	VV	0.083		147.598	* uncalibrated *
8.370	11970	VV	0.082		119.702	* uncalibrated *
8.461	5422	VV	0.049		54.222	* uncalibrated *
9.202	2215	VV	0.039		22.153	* uncalibrated *
9.263	7876	VV	0.039		78.761	* uncalibrated *
9.528	191930	VV	0.053		1919.302	* uncalibrated *
9.690	28470	VV	0.035		284.696	* uncalibrated *
9.890	4255	VV	0.044		42.553	* uncalibrated *
10.009	29044	PV	0.032		290.441	* uncalibrated *
10.112	61422	VV	0.052		614.218	* uncalibrated *
10.181	19108	VV	0.041		191.083	* uncalibrated *

ata File Name : C:\HPCHEM\1\DATA\vp101105\009R0101.D
perator : DCS
nstrument : FID/PID
ample Name : g537-178-1a msd
in Time Bar Code:
cquired on : 11 Oct 05 11:13 AM
eport Created on: 11 Oct 05 03:08 PM
ast Recalib on : 24 AUG 04 09:09 AM
ultiplier : 1

Page Number : 2
Vial Number : 9
Injection Number : 1
Sequence Line : 1
Instrument Method: GAS1.MTH
Analysis Method : vph_pid.MTH
Sample Amount : 0
ISTD Amount :

10.273	19544	VV	0.042	195.444	* uncalibrated *
10.322	20705	VV	0.032	207.050	* uncalibrated *
10.403	4580	VV	0.037	45.797	* uncalibrated *
10.447	6217	VV	0.038	62.168	* uncalibrated *
10.518	16242	VV	0.035	162.424	* uncalibrated *
10.560	28643	VV	0.058	286.425	* uncalibrated *
10.644	3729	VV	0.036	37.289	* uncalibrated *
10.762	14069	VV	0.043	140.692	* uncalibrated *
10.800	9366	VV	0.040	93.664	* uncalibrated *
10.854	13583	VV	0.045	135.828	* uncalibrated *
10.970	21613	VV	0.071	216.134	* uncalibrated *
11.071	11793	VV	0.061	117.933	* uncalibrated *
11.270	8089	VV	0.045	80.889	* uncalibrated *
11.355	11524	VV	0.056	115.242	* uncalibrated *
11.403	9351	VV	0.042	93.513	* uncalibrated *
11.479	13566	VV	0.059	135.659	* uncalibrated *
11.560	14000	VV	0.084	139.998	* uncalibrated *
11.762	46320	VV	0.078	463.200	* uncalibrated *
11.910	11832	VV	0.048	118.322	* uncalibrated *
11.983	10664	VV	0.068	106.635	* uncalibrated *
12.204	13543	PV	0.051	135.428	* uncalibrated *
12.356	1434	PBA	0.019	14.340	* uncalibrated *



ata File Name	: C:\HPCHEM\1\DATA\vp101105\009R0101.D		
perator	: DCS	Page Number	: 1
nstrument	: FID/PID	Vial Number	: 9
ample Name	: g537-178-1a msd	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 11 Oct 05 11:13 AM	Instrument Method:	GAS1.MTH
eport Created on:	11 Oct 05 03:08 PM	Analysis Method	: vph_pid.MTH
ast Recalib on	: 24 AUG 04 09:09 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	:

VPH Prep, Standard, Run Logs

Volatiles Standard Logbook # 6
Paradigm Analytical

Working Standard

ID: GasComp-CURVE-7-060105

referring page	Item	Lot Number	Components	Vendor	initial conc. (ppm)	uL/3mL	final conc (ppm)
	1	A031854	Gas Composite	Restek	2500	480	400
	2						
	3						
	4						
	5						
	6						
	7						
	8						
	9						
	10						
	10						

Calculations:

Prep: 6/1/05
Expires: 6/1/06

Comments: _____

Notes:
Lot # format is "xxx-yyy-mmddyyz" where xxx is the logbook number, yyy is the page number, mmddyy is the date, and z is an additional identifier

Page: _____

Volatiles Standard Logbook # 6
Paradigm Analytical

Working Standard

ID: GasComp-QC-7-060105

referring page	Item	Lot Number	Components	Vendor	Initial conc. (ppm)	uL/3mL	final conc (ppm)
	1	A031853	Gas Composite	Restek	2500	480	400
	2						
	3						
	4						
	5						
	6						
	7						
	8						
	9						
	10						
	10						

Calculations:

Prep: 6/1/05
Expires: 6/1/06

Comments: _____

Notes:
Lot # format is "xxx-yyy-mmddyyz" where xxx is the logbook number, yyy is the page number, mmddyy is the date, and z is an additional identifier

Page: _____

Volatiles Standard Logbook # 7)
Paradigm Analytical

Working Standard

ID: VPH-QC-7-071405

referring page	Item	Lot Number	Components	Vendor	initial conc. (ppm)	uL/3mL	final conc (ppm)
	1	A029644	MA VPH	Restek	500-1500	1200	400
	2						
	3						
	4						
	5						
	6						
	7						
	8						
	9						
	10						
	10						

Calculations:

Prep: 7/14/05
Expires: 2/14/06

Comments: _____

Notes:
Lot # format is "xxx-yyy-mmddyyz" where xxx is the logbook number, yyy is the page number, mmddyy is the date, and z is an additional identifier.

Page: _____

Paradigm Analytical

GC4 VPH Runlog Sheet

Method: MA VPH , 8015\5030 GRO

Initial Cal. Curve: VPH-09/27/05

Matrix: Water/Soil

Batch: vp100705

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	F	R
001F0101.D	B	10/7/05 10:12				DCS		
002F0101.D	V 500	10/7/05 10:37				DCS		
003F0101.D	B	10/7/05 11:02				DCS		
004F0101.D	G500	10/7/05 11:27				DCS		
005F0101.D	VLCS4100705A x1	10/7/05 11:51				DCS		
006F0101.D	VBLK4100705A x1	10/7/05 12:16				DCS		
007F0101.D	G178-95-1A x1	10/7/05 12:40				DCS		
008F0101.D	G442-356-1D x1	10/7/05 13:52				DCS		
009F0101.D	G442-356-2D x1	10/7/05 14:17				DCS		
010F0101.D	G442-356-3D x1	10/7/05 14:41				DCS		
011F0101.D	G442-356-4E x1	10/7/05 15:06				DCS		
012F0101.D	b	10/7/05 16:44				DCS		
013F0101.D	g349-122-1a x1	10/7/05 17:09				DCS		
014F0101.D	g349-122-2a x1	10/7/05 17:33				DCS		
015F0101.D	g349-122-3a x1	10/7/05 17:58				DCS		
016F0101.D	g349-122-3d ms	10/7/05 18:23				DCS		
017F0101.D	g349-122-3e msd	10/7/05 18:47				DCS		
018F0101.D	g349-122-4a x1	10/7/05 19:12				DCS		
019F0101.D	g106-559-1d x1	10/7/05 19:37				DCS		
020F0101.D	g311-154-3d x50	10/7/05 20:02				DCS		
021F0101.D	g21-1851-1a x100	10/7/05 20:26				DCS		
022F0101.D	G211-1851-1A x100 dup	10/7/05 20:51	cid= 165592			DCS		

Analyst:

Page Number: _____

PARADIGM ANALYTICAL LABORATORIES, INC.

N.C. CERTIFICATION #481

Paradigm Analytical

GC4 VPH Runlog Sheet

Method: MA VPH , 8015\5030 GRO

Initial Cal. Curve: VPH-09/27/05

Matrix: Water/Soil

Batch: vp100705

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	F	R
023F0101.D	g161-2182-13e x1	10/7/05 21:15				DCS		
024F0101.D	g161-2182-15e x1	10/7/05 21:40				DCS		
025F0101.D	g161-2180-5d x1	10/7/05 22:04				DCS		
026F0101.D	G161-2180-5E x1 dup	10/7/05 22:29	cid= 167667			DCS		
027F0101.D	g510-262-1a x1	10/7/05 22:54				DCS		
028F0101.D	b	10/7/05 23:18				DCS		
029F0101.D	g311-156-5b x1	10/7/05 23:43				DCS		
030F0101.D	g311-156-2e x4	10/8/05 0:07				DCS		
031F0101.D	g204-492-4e x4	10/8/05 0:32				DCS		
032F0101.D	b	10/8/05 0:56				DCS		
033F0101.D	G500	10/8/05 1:21				DCS		
034F0101.D	lcs4100705b	10/8/05 1:46				DCS		
035F0101.D	vblk4100705b	10/8/05 2:10				DCS		
036F0101.D	g128-1609-2b x1	10/8/05 2:35				DCS		
037F0101.D	g128-1609-2b ms	10/8/05 3:00				DCS		
038F0101.D	g128-1609-2b msd	10/8/05 3:24				DCS		
039F0101.D	g128-1609-1b x1	10/8/05 3:49				DCS		
040F0101.D	g122-2656-1c x1	10/8/05 4:14				DCS		
041F0101.D	g311-159-1e x1	10/8/05 4:38				DCS		
042F0101.D	g311-159-2e x1	10/8/05 5:03				DCS		
043F0101.D	g311-159-3c x1	10/8/05 5:27				DCS		

Analyst:

Page Number:

PARADIGM ANALYTICAL LABORATORIES, INC.

N.C. CERTIFICATION #481

Paradigm Analytical

GC4 VPH Runlog Sheet

Method: MA VPH , 8015\5030 GRO

Initial Cal. Curve: VPH-09/27/05

Matrix: Water/Soil

Batch: vp100705

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	F	R
044F0101.D	g311-158-1d x1	10/8/05 5:52				DCS		
045F0101.D	g311-158-2d x1	10/8/05 6:17				DCS		
046F0101.D	g311-158-3d x1	10/8/05 6:41				DCS		
047F0101.D	g311-158-4d x1	10/8/05 7:06				DCS		
048F0101.D	g311-158-5d x1	10/8/05 7:31				DCS		
049F0101.D	g311-160-1d x1	10/8/05 7:55				DCS		
050F0101.D	g311-160-2d x1	10/8/05 8:20				DCS		
051F0101.D	g311-160-3d x1	10/8/05 8:44				DCS		
052F0101.D	g311-160-4d x1	10/8/05 9:09				DCS		
053F0101.D	G311-160-4E x1 dup	10/8/05 9:34	cid= 167611			DCS		
054F0101.D	g311-160-5d x1	10/8/05 10:00				DCS		
055F0101.D	g642-2-1e x1	10/8/05 10:25				DCS		
056F0101.D	g204-492-5e x1	10/8/05 10:51				DCS		
057F0101.D	b	10/8/05 11:16				DCS		

Analyst:

Page Number: _____

PARADIGM ANALYTICAL LABORATORIES, INC.

N.C. CERTIFICATION #481

Paradigm Analytical

GC4 VPH Runlog Sheet

Method: MA VPH , 8015\5030 GRO

Initial Cal. Curve: VPH-09/27/05

Matrix: Water/Soil

Batch: vp101105

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	F	R
001F0101.D	B	10/11/05 7:56				DCS		
002F0101.D	V 500	10/11/05 8:21				DCS		
003F0101.D	B	10/11/05 8:45				DCS		
004F0101.D	G 500	10/11/05 9:10				DCS		
005F0101.D	LCS4101105a x1	10/11/05 9:35				DCS		
006F0101.D	VBLK4101105a x1	10/11/05 9:59				DCS		
007F0101.D	g537-178-1a x1	10/11/05 10:24				DCS		
008F0101.D	g537-178-1a ms	10/11/05 10:48				DCS		
009F0101.D	g537-178-1a msd	10/11/05 11:13				DCS		
010F0101.D	g537-178-4a x100	10/11/05 11:38				DCS		
011F0101.D	b	10/11/05 12:02				DCS		
012F0101.D	g311-161-3f x1	10/11/05 12:27				DCS		
013F0101.D	g311-161-2f x20	10/11/05 12:52				DCS		
014F0101.D	G311-161-2F x20 dup	10/11/05 13:16	cid= 168136			DCS		
015F0101.D	b	10/11/05 16:17				DCS		
016F0101.D	g349-123-4a x1	10/11/05 16:42				DCS		
017F0101.D	g349-123-6a x1	10/11/05 17:07				DCS		
018F0101.D	g161-2183-3a x1	10/11/05 17:31				DCS		
019F0101.D	b	10/11/05 17:56				DCS		
020F0101.D	g161-2182-17b x1	10/11/05 18:20				DCS		
021F0101.D	g106-559-2e x1	10/11/05 18:45				DCS		
022F0101.D	g161-2180-1d x1	10/11/05 19:10				DCS		

Analyst:

Page Number:

PARADIGM ANALYTICAL LABORATORIES, INC.

N.C. CERTIFICATION #481

Paradigm Analytical

GC4 VPH Runlog Sheet

Method: MA VPH , 8015\5030 GRO

Initial Cal. Curve: VPH-09/27/05

Matrix: Water/Soil

Batch: vp101105

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	F	R
023F0101.D	g161-2180-3d x1	10/11/05 19:34				DCS		
024F0101.D	g161-2180-2d x1	10/11/05 19:59				DCS		
025F0101.D	g161-2182-7d x1	10/11/05 20:23				DCS		
026F0101.D	g161-2182-6d x1	10/11/05 20:48				DCS		
027F0101.D	b	10/11/05 21:12				DCS		

Analyst:

Page Number: _____

PARADIGM ANALYTICAL LABORATORIES, INC.

N.C. CERTIFICATION #481

EPH Sample Raw Data

External Standard Report

Data File Name : C:\HPCHEM\1\DATA\EP101705\008F0201.D
Operator : DCS
Instrument : GC6
Sample Name : G161-2180-11 x2 K
Run Time Bar Code: 168465
Acquired on : 17 Oct 05 12:34:26 PM
Report Created on: 18 Oct 2005 9:02:36 AM
Last Recalib on : 20 Sep 2005 8:28:13 AM
Multiplier : 1.0000

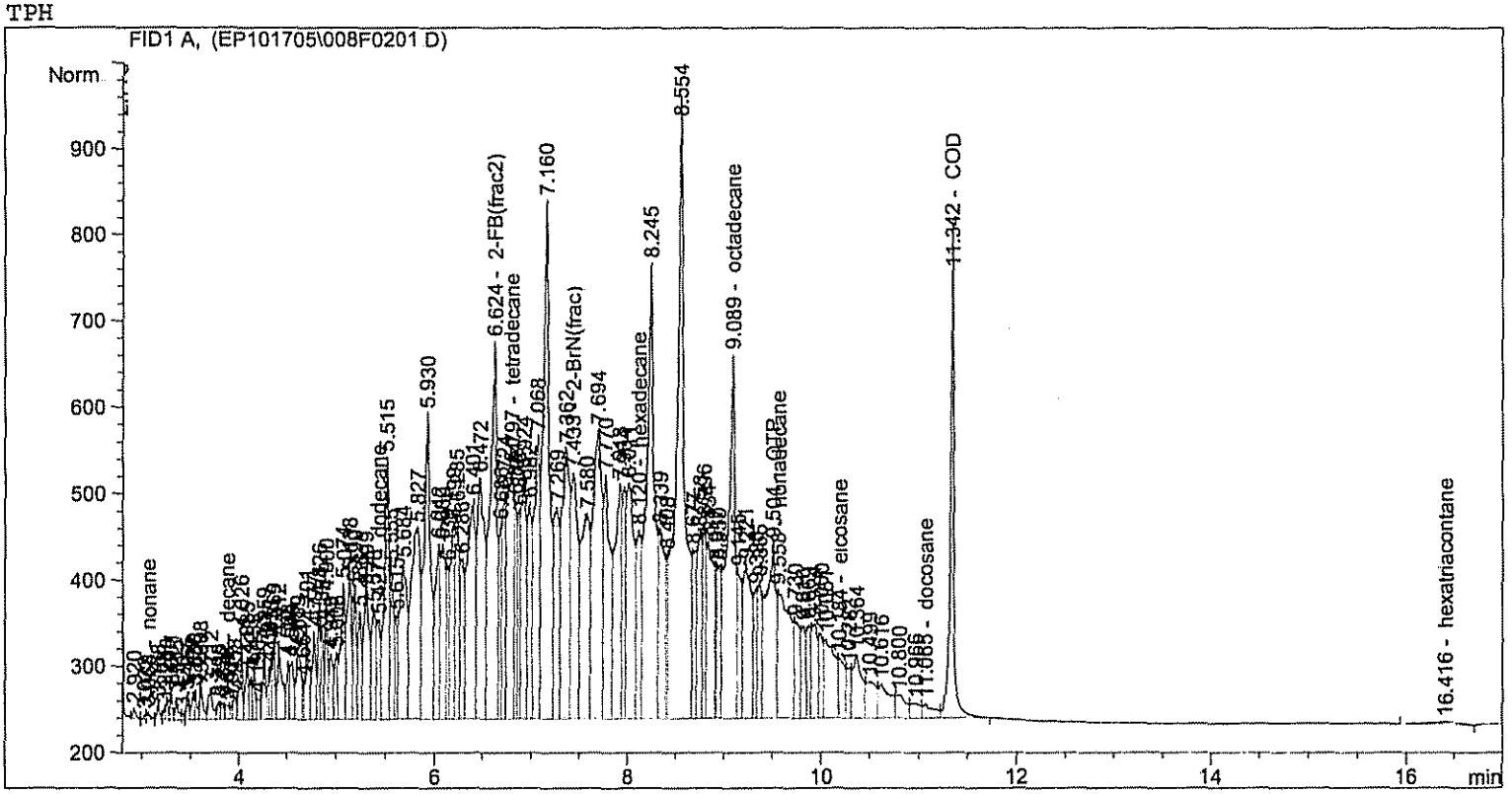
Page Number :
Vial Number : Vial 8
Injection Number : 1
Sequence Line : 2
Instrument Method: PROEPH.M
Analysis Method : EPHTK_F.M
Sample Amount : 10 µl
ISTD Amount :

DS 10/18

Sig. 1 in C:\HPCHEM\1\DATA\EP101705\008F0201.D

Ret Time	Area	Type	Width	Ref#	ng	Name
3.068	19.14829	VP	0.03	1	2.441e-5	nonane
3.876	46.06855	VV	0.03	2	5.873e-5	decane
5.427	311.64218	VV	0.04	3	0.00040	dodecane
6.624	2195.08716	VV	0.06	4	0.00280	2-FB(frac2)
6.797	1392.78394	VV	0.06	5	0.00178	tetradecane
7.433	1434.48315	VV	0.06	6	0.00183	2-BrN(frac)
8.120	749.76013	VV	0.04	7	0.00096	hexadecane
9.089	2312.12549	VV	0.07	8	0.00295	octadecane
9.504	1454.17102	VV	0.08	9	0.00185	OTP
9.558	1340.38403	VV	0.10	10	0.00171	nonadecane
10.184	315.77588	VV	0.05	11	0.00040	eicosane
11.065	132.53488	VV	0.10	12	0.00017	docosane
11.342	1426.05115	VB	0.04	13	0.00182	COD
11.779	0.00000	XX	0.00	14	0.00000	tetracosane
12.525	0.00000	XX	0.00	15	0.00000	hexacosane
13.242	0.00000	XX	0.00	16	0.00000	octacosane
13.914	0.00000	XX	0.00	17	0.00000	triacontane
16.416	72.64313	BP	0.33	18	9.261e-5	hexatriacontane
0.532	7.35199	PV	0.01	1	9.373e-6	* uncalibrated *
0.584	11.64745	VV	0.01	2	1.485e-5	* uncalibrated *
1.786	7.72963e7	VVS	0.94	3	98.54157	* uncalibrated *
1.813	8.93180e5	VVS	0.01	4	1.13867	* uncalibrated *
1.905	1.73485e4	VVS	0.04	5	0.02212	* uncalibrated *
1.936	1.29093e4	VVS	0.03	6	0.01646	* uncalibrated *
1.990	1.25711e4	VVS	0.03	7	0.01603	* uncalibrated *
2.043	1.52828e4	VVS	0.05	8	0.01948	* uncalibrated *
2.109	2.08457e4	VVS	0.07	9	0.02658	* uncalibrated *
2.189	1.34145e4	VVS	0.05	10	0.01710	* uncalibrated *
2.242	8760.07324	VVS	0.03	11	0.01117	* uncalibrated *
2.284	1.16214e4	VVS	0.04	12	0.01482	* uncalibrated *
2.344	9389.30078	VVS	0.03	13	0.01197	* uncalibrated *
2.385	7342.87744	VVS	0.02	14	0.00936	* uncalibrated *
2.431	1.56342e4	VVS	0.07	15	0.01993	* uncalibrated *
2.501	4727.81055	VVS	0.02	16	0.00603	* uncalibrated *
2.536	6624.45313	VVS	0.03	17	0.00845	* uncalibrated *
2.575	6692.59961	VVS	0.03	18	0.00853	* uncalibrated *
2.613	6714.24023	VVS	0.03	19	0.00856	* uncalibrated *
2.655	4141.98291	VVS	0.03	20	0.00528	* uncalibrated *
2.697	2459.78394	VVS	0.03	21	0.00314	* uncalibrated *
2.738	2060.50513	VVS	0.03	22	0.00263	* uncalibrated *
2.773	1111.59045	VBAS	0.02	23	0.00142	* uncalibrated *
2.920	25.13256	VP	0.02	24	3.204e-5	* uncalibrated *
3.032	8.95187	VV	0.02	25	1.141e-5	* uncalibrated *

```
==================================================================
Injection Date  : 10/17/2005 12:34:26 PM        Seq. Line :   2
Sample Name     : 168465 x2 K                    Location : Vial 8
Acq. Operator   : DCS                                Inj :   1
Acq. Instrument : GC6                           Inj Volume : 10 µl
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed    : 10/6/2005 10:15:42 AM by DCS
TPH
```




```
==================================================================
                      Area Percent Report
==================================================================

Sorted By              :      Signal
Calib. Data Modified   :      9/20/2005 8:28:13 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	3.068	VP	0.0300	19.14829	2.441e-5	nonane
2	3.876	VV	0.0387	46.06855	5.873e-5	decane
3	5.427	VV	0.0404	311.64218	0.00040	dodecane
4	6.624	VV	0.0646	2195.08716	0.00280	2-FB(frac2)
5	6.797	VV	0.0608	1392.78394	0.00178	tetradecane
6	7.433	VV	0.0628	1434.48315	0.00183	2-BrN(frac)
7	8.120	VV	0.0430	749.76013	0.00096	hexadecane
8	9.089	VV	0.0710	2312.12549	0.00295	octadecane
9	9.504	VV	0.0870	1454.17102	0.00185	OTP
10	9.558	VV	0.1081	1340.38403	0.00171	nonadecane
11	10.184	VV	0.0561	315.77588	0.00040	eicosane
12	11.065	VV	0.1002	132.53488	0.00017	docosane
13	11.342	VB	0.0423	1426.05115	0.00182	COD

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
14	11.779		0.0000	0.00000	0.00000	tetracosane
15	12.525		0.0000	0.00000	0.00000	hexacosane
16	13.242		0.0000	0.00000	0.00000	octacosane
17	13.914		0.0000	0.00000	0.00000	triacontane
18	16.416	BP	0.3339	72.64313	9.261e-5	hexatriacontane

Totals : 1.32027e4 1.683e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.532	PV	0.0161	7.35199	9.373e-6	?
2	0.584	VV	0.0192	11.64745	1.485e-5	?
3	1.786	VV S	0.9497	7.72963e7	98.54157	?
4	1.813	VV S	0.0182	8.93180e5	1.13867	?
5	1.905	VV S	0.0460	1.73485e4	0.02212	?
6	1.936	VV S	0.0366	1.29093e4	0.01646	?
7	1.990	VV S	0.0306	1.25711e4	0.01603	?
8	2.043	VV S	0.0520	1.52828e4	0.01948	?
9	2.109	VV S	0.0799	2.08457e4	0.02658	?
10	2.189	VV S	0.0540	1.34145e4	0.01710	?
11	2.242	VV S	0.0361	8760.07324	0.01117	?
12	2.284	VV S	0.0411	1.16214e4	0.01482	?
13	2.344	VV S	0.0387	9389.30078	0.01197	?
14	2.385	VV S	0.0292	7342.87744	0.00936	?
15	2.431	VV S	0.0791	1.56342e4	0.01993	?
16	2.501	VV S	0.0247	4727.81055	0.00603	?
17	2.536	VV S	0.0338	6624.45313	0.00845	?
18	2.575	VV S	0.0325	6692.59961	0.00853	?
19	2.613	VV S	0.0344	6714.24023	0.00856	?
20	2.655	VV S	0.0351	4141.98291	0.00528	?
21	2.697	VV S	0.0304	2459.78394	0.00314	?
22	2.738	VV S	0.0305	2060.50513	0.00263	?
23	2.773	VBAS	0.0222	1111.59045	0.00142	?
24	2.920	VP	0.0293	25.13256	3.204e-5	?
25	3.032	VV	0.0237	8.95187	1.141e-5	?
26	3.168	VV	0.0235	32.24903	4.111e-5	?
27	3.228	VV	0.0196	16.21000	2.067e-5	?
28	3.258	VV	0.0220	38.94398	4.965e-5	?
29	3.301	VV	0.0221	47.47237	6.052e-5	?
30	3.355	VV	0.0294	53.09899	6.769e-5	?
31	3.420	VV	0.0207	9.79991	1.249e-5	?
32	3.465	VV	0.0285	52.73893	6.723e-5	?
33	3.530	VV	0.0255	59.96458	7.645e-5	?
34	3.553	VV	0.0230	55.58202	7.086e-5	?
35	3.608	VV	0.0274	94.40438	0.00012	?
36	3.712	VV	0.0406	113.25639	0.00014	?
37	3.795	VV	0.0277	37.73683	4.811e-5	?
38	3.832	VV	0.0289	38.91170	4.961e-5	?
39	3.921	VV	0.0206	21.43050	2.732e-5	?
40	3.958	VV	0.0337	60.18436	7.673e-5	?
41	4.026	VV	0.0285	201.58838	0.00026	?
42	4.085	VV	0.0301	149.53644	0.00019	?
43	4.123	VV	0.0238	85.27537	0.00011	?
44	4.155	VV	0.0273	105.93612	0.00014	?
45	4.196	VV	0.0335	62.94194	8.024e-5	?
46	4.259	VV	0.0279	169.54048	0.00022	?
47	4.307	VV	0.0197	81.02325	0.00010	?
48	4.333	VV	0.0198	98.60793	0.00013	?
49	4.359	VV	0.0258	162.77785	0.00021	?
50	4.412	VV	0.0430	294.05499	0.00037	?
51	4.508	VV	0.0254	116.86827	0.00015	?
52	4.546	VV	0.0416	188.77815	0.00024	?
53	4.609	VV	0.0547	268.24658	0.00034	?

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
54	4.664	VV	0.0171	54.16941	6.906e-5	?
55	4.701	VV	0.0322	260.98260	0.00033	?
56	4.777	VV	0.0357	258.45306	0.00033	?
57	4.826	VV	0.0251	237.33023	0.00030	?
58	4.854	VV	0.0244	181.09242	0.00023	?
59	4.900	VV	0.0274	262.56989	0.00033	?
60	4.945	VV	0.0405	209.46585	0.00027	?
61	5.006	VV	0.0330	178.62224	0.00023	?
62	5.074	VV	0.0419	484.21945	0.00062	?
63	5.138	VV	0.0446	553.15894	0.00071	?
64	5.190	VV	0.0324	345.12634	0.00044	?
65	5.238	VV	0.0345	294.94180	0.00038	?
66	5.299	VV	0.0544	599.31293	0.00076	?
67	5.378	VV	0.0415	385.56644	0.00049	?
68	5.515	VV	0.0423	944.08136	0.00120	?
69	5.555	VV	0.0391	533.61926	0.00068	?
70	5.615	VV	0.0253	209.07356	0.00027	?
71	5.684	VV	0.0666	926.05475	0.00118	?
72	5.827	VV	0.0816	1423.43860	0.00181	?
73	5.930	VV	0.0638	1724.95996	0.00220	?
74	6.042	VV	0.0442	666.19684	0.00085	?
75	6.080	VV	0.0534	769.53790	0.00098	?
76	6.139	VV	0.0273	323.93005	0.00041	?
77	6.199	VV	0.0441	694.55530	0.00089	?
78	6.235	VV	0.0381	697.79926	0.00089	?
79	6.286	VV	0.0411	557.76825	0.00071	?
80	6.401	VV	0.0720	1475.97754	0.00188	?
81	6.472	VV	0.0723	1490.36096	0.00190	?
82	6.686	VV	0.0250	425.52701	0.00054	?
83	6.724	VV	0.0326	643.11713	0.00082	?
84	6.834	VV	0.0268	518.55188	0.00066	?
85	6.878	VV	0.0264	423.15805	0.00054	?
86	6.924	VV	0.0499	1045.35730	0.00133	?
87	6.982	VV	0.0387	743.69635	0.00095	?
88	7.068	VV	0.0543	1327.46021	0.00169	?
89	7.160	VV	0.0651	2993.21704	0.00382	?
90	7.269	VV	0.0534	996.94391	0.00127	?
91	7.362	VV	0.0727	1740.77368	0.00222	?
92	7.580	VV	0.0770	1527.79968	0.00195	?
93	7.694	VV	0.0889	2182.62354	0.00278	?
94	7.770	VV	0.0606	1344.94458	0.00171	?
95	7.918	VV	0.0620	1375.91748	0.00175	?
96	7.964	VV	0.0306	614.24457	0.00078	?
97	8.011	VV	0.0756	1607.04089	0.00205	?
98	8.245	VV	0.0766	3011.28931	0.00384	?
99	8.339	VV	0.0595	988.13525	0.00126	?
100	8.408	VV	0.0162	216.29433	0.00028	?
101	8.554	VV	0.0820	4517.91357	0.00576	?
102	8.677	VV	0.0385	614.40582	0.00078	?
103	8.753	VV	0.0435	694.75165	0.00089	?
104	8.796	VV	0.0350	567.86646	0.00072	?
105	8.834	VV	0.0643	1023.16852	0.00130	?
106	8.917	VV	0.0155	189.49478	0.00024	?
107	8.950	VV	0.0333	477.05081	0.00061	?
108	9.145	VV	0.0383	516.98401	0.00066	?
109	9.221	VV	0.0721	1027.44482	0.00131	?
110	9.325	VV	0.0360	380.16342	0.00048	?
111	9.365	VV	0.0455	508.53961	0.00065	?
112	9.730	VV	0.0486	441.84943	0.00056	?
113	9.816	VV	0.0435	328.76242	0.00042	?
114	9.869	VV	0.0375	313.09882	0.00040	?
115	9.924	VV	0.0558	506.30072	0.00065	?
116	10.000	VV	0.0377	295.44391	0.00038	?
117	10.051	VV	0.0923	696.90021	0.00089	?
118	10.282	VV	0.0420	176.29675	0.00022	?

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
119	10.364	VV	0.0841	493.12222	0.00063	?
120	10.499	VV	0.1056	310.50925	0.00040	?
121	10.616	VV	0.1116	332.86526	0.00042	?
122	10.800	VV	0.1016	189.60840	0.00024	?
123	10.966	VV	0.0956	122.69180	0.00016	?

Uncalib. totals : 7.84271e7 99.9832

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

==========
*** End of Report ***

External Standard Report

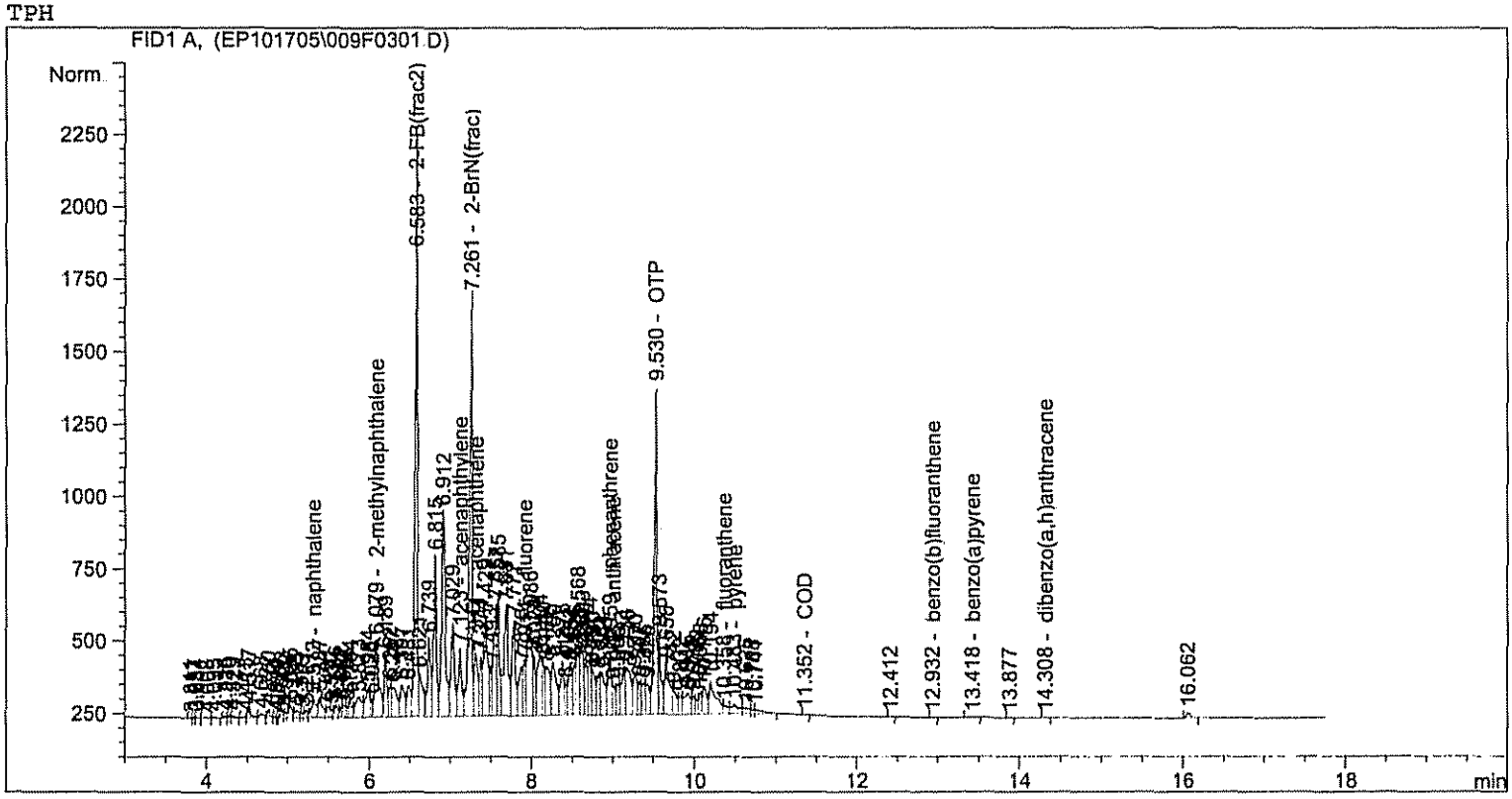
Data File Name : C:\HPCHEM\1\DATA\EP101705\009F0301.D
Operator : DCS
Instrument : GC6
Sample Name : G161-2180-1I x1 R
Run Time Bar Code: 168465
Acquired on : 17 Oct 05 1:01:18 PM
Report Created on: 18 Oct 2005 9:02:24 AM
Last Recalib on : 23 Sep 2005 9:33:55 AM
Multiplier : 1.0000

Page Number :
Vial Number : Vial 9
Injection Number : 1
Sequence Line : 3
Instrument Method: PROEPH.M
Analysis Method : EPH-R_F.M
Sample Amount : 10 µl
ISTD Amount :

Sig. 1 in C:\HPCHEM\1\DATA\EP101705\009F0301.D

Ret Time	Area	Type	Width	Ref#	ng	Name
5.312	260.02383	VV	0.05	1	0.00050	naphthalene
6.079	882.69037	VV	0.04	2	0.00169	2-methylnaphthalene
6.583	3774.78564	VV	0.02	3	0.00722	2-FB(frac2)
7.123	677.27289	VV	0.04	4	0.00130	acenaphthylene
7.261	3269.83521	VV	0.03	5	0.00626	2-BrN(frac)
7.311	651.52325	VV	0.04	6	0.00125	acenaphthene
7.914	388.50348	VV	0.02	7	0.00074	fluorene
8.959	621.87622	VV	0.04	8	0.00119	phenanthrene
9.002	232.84927	VV	0.03	9	0.00045	anthracene
9.530	2369.12402	VV	0.02	10	0.00453	OTP
10.358	113.81624	VV	0.05	11	0.00022	fluoranthene
10.483	194.59364	VV	0.07	12	0.00037	pyrene
11.352	4.56258	PB	0.03	13	8.731e-6	COD
11.985	0.00000	XX	0.00	14	0.00000	benzo(a)anthracene
12.022	0.00000	XX	0.00	15	0.00000	chrysene
12.932	3.17088	PP	0.03	16	6.068e-6	benzo(b)fluoranthene
13.215	0.00000	XX	0.00	17	0.00000	benzo(k)fluoranthene
13.418	4.64313	PP	0.04	18	8.885e-6	benzo(a)pyrene
14.308	2.50914	PB	0.03	19	4.801e-6	dibenzo(a,h)anthracene
14.640	0.00000	XX	0.00	20	0.00000	indeno(1,2,3-cd)pyrene
14.817	0.00000	XX	0.00	21	0.00000	benzo(g,h,i)perylene
1.374	4.79236e7	PVS	0.63	1	91.70241	* uncalibrated *
1.475	2.48141e5	VVS	0.03	2	0.47482	* uncalibrated *
1.527	3.07035e5	VVS	0.03	3	0.58752	* uncalibrated *
1.580	3.24105e5	VVS	0.05	4	0.62018	* uncalibrated *
1.657	2.82417e5	VVS	0.04	5	0.54041	* uncalibrated *
1.696	1.83859e5	VVS	0.03	6	0.35182	* uncalibrated *
1.746	1.90167e5	VVS	0.03	7	0.36389	* uncalibrated *
1.804	3.11002e5	VVS	0.06	8	0.59511	* uncalibrated *
1.870	1.69558e5	VVS	0.03	9	0.32445	* uncalibrated *
1.924	1.70589e5	VVS	0.03	10	0.32642	* uncalibrated *
1.978	2.12548e5	VVS	0.04	11	0.40671	* uncalibrated *
2.042	2.65867e5	VVS	0.07	12	0.50874	* uncalibrated *
2.126	1.49204e5	VVS	0.02	13	0.28550	* uncalibrated *
2.153	6.98814e4	VVS	0.02	14	0.13372	* uncalibrated *
2.187	1.51574e5	VVS	0.04	15	0.29004	* uncalibrated *
2.300	3.95289e5	VVS	0.12	16	0.75639	* uncalibrated *
2.387	1.33284e5	VVS	0.03	17	0.25504	* uncalibrated *
2.436	1.42621e5	VVS	0.03	18	0.27291	* uncalibrated *
2.483	1.14869e5	VVS	0.02	19	0.21980	* uncalibrated *
2.577	3.80701e5	VVS	0.14	20	0.72848	* uncalibrated *
2.697	4.94090e4	VVS	0.03	21	0.09454	* uncalibrated *
2.750	2.64241e4	VVS	0.03	22	0.05056	* uncalibrated *

```
==================================================================
Injection Date  : 10/17/2005 1:01:18 PM          Seq. Line :   3
Sample Name     : 168465 x1 R                     Location : Vial 9
Acq. Operator   : DCS                                  Inj :   1
Acq. Instrument : GC6                           Inj Volume : 10 µl
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPH-R_F.M
Last changed    : 9/23/2005 10:16:24 AM by DCS
TPH
```




```
==================================================================
                        Area Percent Report
==================================================================

Sorted By              :      Signal
Calib. Data Modified   :      9/23/2005 9:33:55 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.312	VV	0.0564	260.02383	0.00050	naphthalene
2	6.079	VV	0.0468	882.69037	0.00169	2-methylnaphthalene
3	6.583	VV	0.0269	3774.78564	0.00722	2-FB(frac2)
4	7.123	VV	0.0411	677.27289	0.00130	acenaphthylene
5	7.261	VV	0.0303	3269.83521	0.00626	2-BrN(frac)
6	7.311	VV	0.0463	651.52325	0.00125	acenaphthene
7	7.914	VV	0.0292	388.50348	0.00074	fluorene
8	8.959	VV	0.0414	621.87622	0.00119	phenanthrene
9	9.002	VV	0.0335	232.84927	0.00045	anthracene
10	9.530	VV	0.0284	2369.12402	0.00453	OTP
11	10.358	VV	0.0509	113.81624	0.00022	fluoranthene
12	10.483	VV	0.0776	194.59364	0.00037	pyrene
13	11.352	PB	0.0329	4.56258	8.731e-6	COD

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
14	11.985		0.0000	0.00000	0.00000	benzo(a)anthracene
15	12.022		0.0000	0.00000	0.00000	chrysene
16	12.932	PP	0.0364	3.17088	6.068e-6	benzo(b)fluoranthene
17	13.215		0.0000	0.00000	0.00000	benzo(k)fluoranthene
18	13.418	PP	0.0448	4.64313	8.885e-6	benzo(a)pyrene
19	14.308	PB	0.0330	2.50914	4.801e-6	dibenzo(a,h)anthracene
20	14.640		0.0000	0.00000	0.00000	indeno(1,2,3-cd)pyrene
21	14.817		0.0000	0.00000	0.00000	benzo(g,h,i)perylene

Totals : 1.34518e4 2.574e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.374	PV S	0.6340	4.79236e7	91.70241	?
2	1.475	VV S	0.0319	2.48141e5	0.47482	?
3	1.527	VV S	0.0383	3.07035e5	0.58752	?
4	1.580	VV S	0.0534	3.24105e5	0.62018	?
5	1.657	VV S	0.0479	2.82417e5	0.54041	?
6	1.696	VV S	0.0351	1.83859e5	0.35182	?
7	1.746	VV S	0.0329	1.90167e5	0.36389	?
8	1.804	VV S	0.0671	3.11002e5	0.59511	?
9	1.870	VV S	0.0366	1.69558e5	0.32445	?
10	1.924	VV S	0.0328	1.70589e5	0.32642	?
11	1.978	VV S	0.0422	2.12548e5	0.40671	?
12	2.042	VV S	0.0707	2.65867e5	0.50874	?
13	2.126	VV S	0.0299	1.49204e5	0.28550	?
14	2.153	VV S	0.0212	6.98814e4	0.13372	?
15	2.187	VV S	0.0450	1.51574e5	0.29004	?
16	2.300	VV S	0.1276	3.95289e5	0.75639	?
17	2.387	VV S	0.0327	1.33284e5	0.25504	?
18	2.436	VV S	0.0376	1.42621e5	0.27291	?
19	2.483	VV S	0.0298	1.14869e5	0.21980	?
20	2.577	VV S	0.1487	3.80701e5	0.72848	?
21	2.697	VV S	0.0376	4.94090e4	0.09454	?
22	2.750	VV S	0.0353	2.64241e4	0.05056	?
23	2.781	VV S	0.0183	9490.15723	0.01816	?
24	2.814	VB S	0.0164	826.88989	0.00158	?
25	3.811	BV	0.0257	3.10961	5.950e-6	?
26	3.857	VV	0.0207	4.94857	9.469e-6	?
27	3.884	VB	0.0282	8.31972	1.592e-5	?
28	4.008	BV	0.0507	6.30506	1.206e-5	?
29	4.095	VP	0.0365	11.60762	2.221e-5	?
30	4.226	BV	0.0256	12.47895	2.388e-5	?
31	4.279	VV	0.0269	18.52343	3.544e-5	?
32	4.329	VB	0.0358	20.31827	3.888e-5	?
33	4.473	BV	0.0309	11.30274	2.163e-5	?
34	4.517	VV	0.0325	85.75981	0.00016	?
35	4.668	VV	0.0502	49.02785	9.382e-5	?
36	4.760	VV	0.0340	68.82818	0.00013	?
37	4.841	VV	0.0265	11.98827	2.294e-5	?
38	4.879	VV	0.0236	6.02534	1.153e-5	?
39	4.933	VV	0.0282	58.11604	0.00011	?
40	4.982	VV	0.0262	35.52897	6.799e-5	?
41	5.035	VV	0.0439	129.11725	0.00025	?
42	5.105	VV	0.0488	94.01081	0.00018	?
43	5.175	VV	0.0274	31.10494	5.952e-5	?
44	5.221	VV	0.0359	68.90503	0.00013	?
45	5.387	VV	0.0452	230.64581	0.00044	?
46	5.491	VV	0.0452	107.77361	0.00021	?
47	5.532	VV	0.0273	54.26886	0.00010	?
48	5.586	VV	0.0396	121.08762	0.00023	?
49	5.657	VV	0.0259	69.39118	0.00013	?
50	5.687	VV	0.0340	112.63400	0.00022	?

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
51	5.726	VV	0.0241	63.17926	0.00012	?
52	5.764	VV	0.0362	181.52704	0.00035	?
53	5.873	VV	0.0798	398.43118	0.00076	?
54	5.984	VV	0.0519	383.74719	0.00073	?
55	6.026	VV	0.0209	87.67197	0.00017	?
56	6.189	VV	0.0350	522.68286	0.00100	?
57	6.252	VV	0.0322	238.46339	0.00046	?
58	6.287	VV	0.0621	483.71127	0.00093	?
59	6.397	VV	0.0484	405.50494	0.00078	?
60	6.481	VV	0.0477	363.01709	0.00069	?
61	6.621	VV	0.0439	504.75003	0.00097	?
62	6.739	VV	0.0427	808.26624	0.00155	?
63	6.815	VV	0.0352	1345.49561	0.00257	?
64	6.912	VV	0.0444	2335.09106	0.00447	?
65	7.029	VV	0.0416	1012.21820	0.00194	?
66	7.374	VV	0.0281	398.46939	0.00076	?
67	7.429	VV	0.0462	1206.54602	0.00231	?
68	7.493	VV	0.0221	265.52545	0.00051	?
69	7.557	VV	0.0355	997.01434	0.00191	?
70	7.585	VV	0.0282	845.11920	0.00162	?
71	7.681	VV	0.0567	1473.31458	0.00282	?
72	7.777	VV	0.0456	1002.39520	0.00192	?
73	7.876	VV	0.0471	581.61499	0.00111	?
74	7.986	VV	0.0568	1281.77234	0.00245	?
75	8.028	VV	0.0259	366.26547	0.00070	?
76	8.104	VV	0.0492	829.11694	0.00159	?
77	8.140	VV	0.0246	319.78796	0.00061	?
78	8.182	VV	0.0508	658.71582	0.00126	?
79	8.260	VV	0.0566	774.54828	0.00148	?
80	8.375	VV	0.0400	534.85431	0.00102	?
81	8.416	VV	0.0254	196.98199	0.00038	?
82	8.462	VV	0.0259	319.39221	0.00061	?
83	8.484	VV	0.0233	275.85324	0.00053	?
84	8.526	VV	0.0313	370.13156	0.00071	?
85	8.568	VV	0.0340	749.63013	0.00143	?
86	8.623	VV	0.0401	653.20300	0.00125	?
87	8.670	VV	0.0336	470.63641	0.00090	?
88	8.714	VV	0.0315	454.37686	0.00087	?
89	8.750	VV	0.0410	494.53513	0.00095	?
90	8.821	VV	0.0328	349.14575	0.00067	?
91	8.864	VV	0.0532	583.02490	0.00112	?
92	9.060	VV	0.0359	300.08347	0.00057	?
93	9.134	VV	0.0426	514.90674	0.00099	?
94	9.176	VV	0.0584	739.21979	0.00141	?
95	9.270	VV	0.0455	482.90720	0.00092	?
96	9.327	VV	0.0323	251.82973	0.00048	?
97	9.386	VV	0.0426	357.28735	0.00068	?
98	9.426	VV	0.0436	329.89139	0.00063	?
99	9.573	VV	0.0290	608.39832	0.00116	?
100	9.656	VV	0.0598	806.01385	0.00154	?
101	9.742	VV	0.0461	310.32150	0.00059	?
102	9.832	VV	0.0395	170.69524	0.00033	?
103	9.915	VV	0.0710	410.55215	0.00079	?
104	9.984	VV	0.0328	150.40971	0.00029	?
105	10.022	VV	0.0277	102.34473	0.00020	?
106	10.068	VV	0.0324	169.26100	0.00032	?
107	10.116	VV	0.0535	334.23877	0.00064	?
108	10.194	VV	0.0730	641.09369	0.00123	?
109	10.625	VV	0.0683	96.80753	0.00019	?
110	10.708	VV	0.0376	42.21917	8.079e-5	?
111	10.741	VP	0.0830	97.61180	0.00019	?
112	12.412	PP	0.0320	2.54732	4.874e-6	?
113	13.877	BB	0.0338	3.02415	5.787e-6	?
114	16.062	BB	0.0527	63.64921	0.00012	?

Uncalib. totals : 5.22465e7 99.9743

Results obtained with enhanced integrator!
2 Warnings or Errors :
)
Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

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*** End of Report ***

External Standard Report

ata File Name : C:\HPCHEM\1\DATA\EP101005\011F0901.D
perator : DCS
nstrument : GC6
ample Name : G161-2180-2I x1 T
un Time Bar Code: 168466
cquired on : 10 Oct 05 3:37:31 PM
eport Created on: 11 Oct 2005 8:52:06 AM
ast Recalib on : 20 Sep 2005 8:28:13 AM
ultiplier : 1.0000

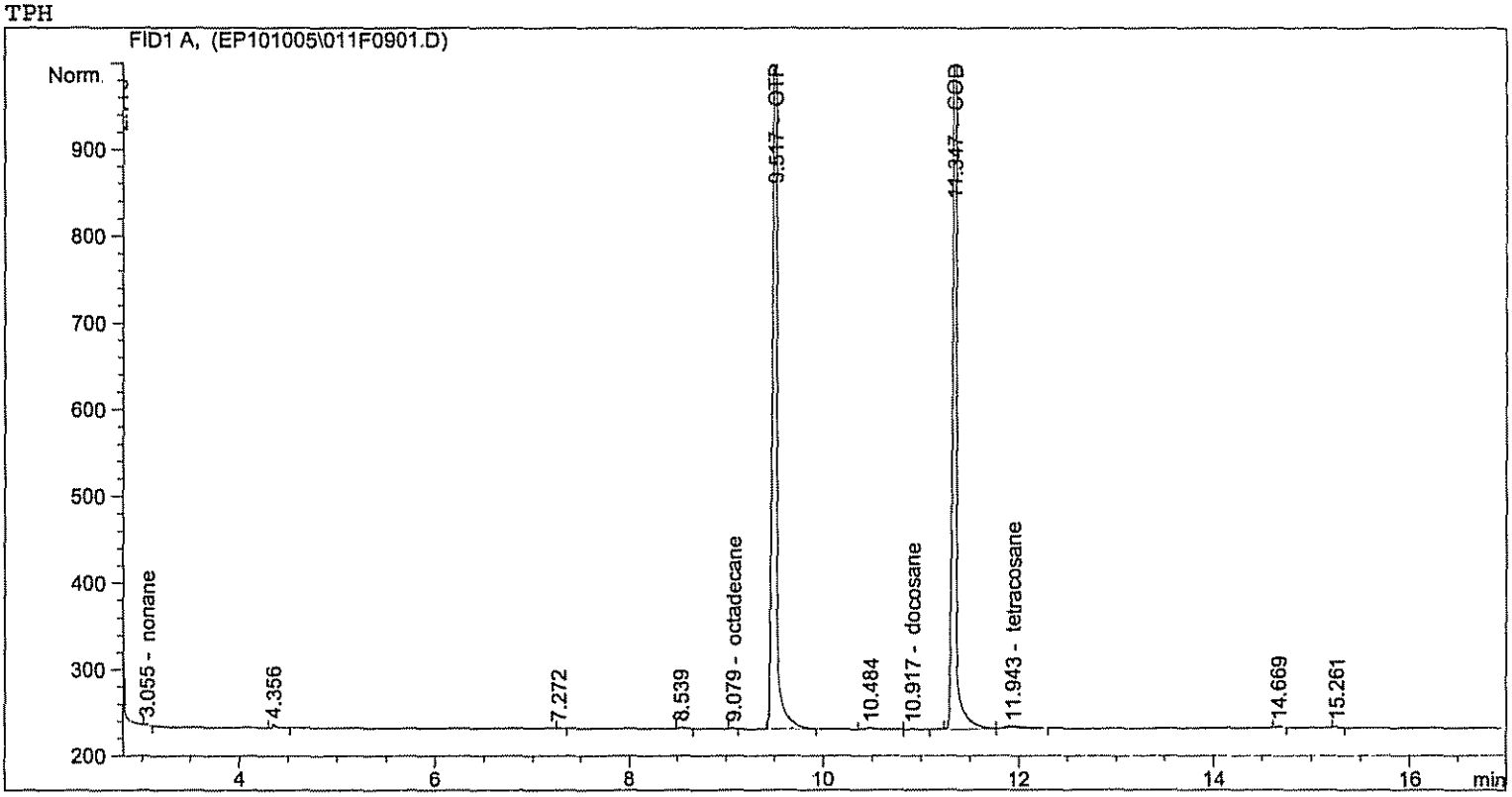
Page Number :
Vial Number : Vial 11
Injection Number : 1
Sequence Line : 9
Instrument Method: PROEPH.M
Analysis Method : EPHTK_F.M
Sample Amount : 10 µl
ISTD Amount :

DC 10/11

ig. 1 in C:\HPCHEM\1\DATA\EP101005\011F0901.D

Ret Time	Area	Type	Width	Ref#	ng	Name
3.055	3.55667	BV	0.02	1	5.201e-6	nonane
3.872	0.00000	XX	0.00	2	0.00000	decane
5.410	0.00000	XX	0.00	3	0.00000	dodecane
6.610	0.00000	XX	0.00	4	0.00000	2-FB(frac2)
6.787	0.00000	XX	0.00	5	0.00000	tetradecane
7.485	0.00000	XX	0.00	6	0.00000	2-BrN(frac)
8.095	0.00000	XX	0.00	7	0.00000	hexadecane
9.079	2.98574	PV	0.03	8	4.366e-6	octadecane
9.517	3284.12744	PB	0.03	9	0.00480	OTP
9.551	0.00000	XX	0.00	10	0.00000	nonadecane
10.154	0.00000	XX	0.00	11	0.00000	eicosane
10.917	2.21781	BP	0.03	12	3.243e-6	docosane
11.347	2930.54565	BB	0.04	13	0.00429	COD
11.943	43.26774	BB	0.21	14	6.327e-5	tetracosane
12.525	0.00000	XX	0.00	15	0.00000	hexacosane
13.242	0.00000	XX	0.00	16	0.00000	octacosane
13.914	0.00000	XX	0.00	17	0.00000	triacontane
16.100	0.00000	XX	0.00	18	0.00000	hexatriacontane
0.584	3565.26855	VVS	8.73e	1	0.00521	* uncalibrated *
0.613	3.20765e4	VVS	8.93e	2	0.04691	* uncalibrated *
0.652	2.67189e5	VVS	0.02	3	0.39071	* uncalibrated *
0.742	1.95249e6	VVS	0.05	4	2.85514	* uncalibrated *
1.718	6.52161e7	VVS	0.81	5	95.36594	* uncalibrated *
1.744	7.54919e5	VVS	0.01	6	1.10392	* uncalibrated *
1.780	1.63517e4	VVS	0.04	7	0.02391	* uncalibrated *
1.815	6746.75635	VVS	0.02	8	0.00987	* uncalibrated *
1.868	1.26846e4	VVS	0.05	9	0.01855	* uncalibrated *
1.901	5331.24854	VVS	0.02	10	0.00780	* uncalibrated *
1.949	1.13113e4	VVS	0.05	11	0.01654	* uncalibrated *
1.991	8047.76611	VVS	0.03	12	0.01177	* uncalibrated *
2.041	8678.87207	VVS	0.04	13	0.01269	* uncalibrated *
2.089	8137.70508	VVS	0.03	14	0.01190	* uncalibrated *
2.184	1.60814e4	VVS	0.09	15	0.02352	* uncalibrated *
2.232	7303.09326	VVS	0.03	16	0.01068	* uncalibrated *
2.298	9309.46973	VVS	0.06	17	0.01361	* uncalibrated *
2.364	5812.27881	VVS	0.03	18	0.00850	* uncalibrated *
2.396	4899.81250	VVS	0.03	19	0.00717	* uncalibrated *
2.438	5264.58838	VVS	0.03	20	0.00770	* uncalibrated *
2.481	3451.94312	VVS	0.02	21	0.00505	* uncalibrated *
2.513	5174.39648	VVS	0.04	22	0.00757	* uncalibrated *
2.558	5124.45459	VVS	0.03	23	0.00749	* uncalibrated *
2.604	3967.80615	VVS	0.02	24	0.00580	* uncalibrated *
2.635	3307.72485	VVS	0.03	25	0.00484	* uncalibrated *

```
==================================================================
Injection Date  : 10/10/2005 3:37:31 PM          Seq. Line :   9
Sample Name     : 168466 x1 T                     Location : Vial 11
Acq. Operator   : DCS                                 Inj :   1
Acq. Instrument : GC6                           Inj Volume : 10 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\101005.S
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed    : 10/6/2005 10:15:42 AM by DCS
TPH
```




```
==================================================================
                        Area Percent Report
==================================================================

Sorted By              :      Signal
Calib. Data Modified   :      9/20/2005 8:28:13 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,

Peak RetTime  Type   Width     Area      Area    Name
  #   [min]          [min]    [pA*s]       %
----|-------|------|-------|----------|--------|--------------------
   1   3.055 BV      0.0268    3.55667 5.201e-6 nonane
   2   3.872         0.0000    0.00000  0.00000 decane
   3   5.410         0.0000    0.00000  0.00000 dodecane
   4   6.610         0.0000    0.00000  0.00000 2-FB(frac2)
   5   6.787         0.0000    0.00000  0.00000 tetradecane
   6   7.485         0.0000    0.00000  0.00000 2-BrN(frac)
   7   8.095         0.0000    0.00000  0.00000 hexadecane
   8   9.079 PV      0.0362    2.98574 4.366e-6 octadecane
   9   9.517 PB      0.0358 3284.12744  0.00480 OTP
  10   9.551         0.0000    0.00000  0.00000 nonadecane
  11  10.154         0.0000    0.00000  0.00000 eicosane
  12  10.917 BP      0.0323    2.21781 3.243e-6 docosane
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.347	BB	0.0417	2930.54565	0.00429	COD
14	11.943	BB	0.2113	43.26774	6.327e-5	tetracosane
15	12.525		0.0000	0.00000	0.00000	hexacosane
16	13.242		0.0000	0.00000	0.00000	octacosane
17	13.914		0.0000	0.00000	0.00000	triacontane
18	16.100		0.0000	0.00000	0.00000	hexatriacontane

Totals : 6266.70105 9.164e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.584	VV S	8.73e-3	3565.26855	0.00521	?
2	0.613	VV S	8.93e-3	3.20765e4	0.04691	?
3	0.652	VV S	0.0234	2.67189e5	0.39071	?
4	0.742	VV S	0.0556	1.95249e6	2.85514	?
5	1.718	VV S	0.8167	6.52161e7	95.36594	?
6	1.744	VV S	0.0168	7.54919e5	1.10392	?
7	1.780	VV S	0.0409	1.63517e4	0.02391	?
8	1.815	VV S	0.0256	6746.75635	0.00987	?
9	1.868	VV S	0.0520	1.26846e4	0.01855	?
10	1.901	VV S	0.0248	5331.24854	0.00780	?
11	1.949	VV S	0.0526	1.13113e4	0.01654	?
12	1.991	VV S	0.0360	8047.76611	0.01177	?
13	2.041	VV S	0.0412	8678.87207	0.01269	?
14	2.089	VV S	0.0386	8137.70508	0.01190	?
15	2.184	VV S	0.0978	1.60814e4	0.02352	?
16	2.232	VV S	0.0399	7303.09326	0.01068	?
17	2.298	VV S	0.0636	9309.46973	0.01361	?
18	2.364	VV S	0.0338	5812.27881	0.00850	?
19	2.396	VV S	0.0345	4899.81250	0.00717	?
20	2.438	VV S	0.0384	5264.58838	0.00770	?
21	2.481	VV S	0.0240	3451.94312	0.00505	?
22	2.513	VV S	0.0410	5174.39648	0.00757	?
23	2.558	VV S	0.0353	5124.45459	0.00749	?
24	2.604	VV S	0.0284	3967.80615	0.00580	?
25	2.635	VV S	0.0324	3307.72485	0.00484	?
26	2.674	VV S	0.0605	4585.14453	0.00670	?
27	2.773	VBAS	0.0245	882.20966	0.00129	?
28	4.356	PB	0.0363	12.30436	1.799e-5	?
29	7.272	VB	0.0305	2.36591	3.460e-6	?
30	8.539	BB	0.0398	4.36489	6.383e-6	?
31	10.484	VB	0.0854	10.90616	1.595e-5	?
32	14.669	BB	0.0434	4.58438	6.704e-6	?
33	15.261	BB	0.0469	4.17203	6.101e-6	?

Uncalib. totals : 6.83788e7 99.9908

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

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*** End of Report ***

External Standard Report

Data File Name	: C:\HPCHEM\1\DATA\EP101005\012F1001.D		
Operator	: DCS	Page Number	:
Instrument	: GC6	Vial Number	: Vial 12
Sample Name	: G161-2180-3I x1 T	Injection Number	: 1
Run Time Bar Code	: 168467	Sequence Line	: 10
Acquired on	: 10 Oct 05 4:04:01 PM	Instrument Method	: PROEPH.M
Report Created on	: 11 Oct 2005 8:52:11 AM	Analysis Method	: EPHTK_F.M
Last Recalib on	: 20 Sep 2005 8:28:13 AM	Sample Amount	: 10 µl
Multiplier	: 1.0000	ISTD Amount	:

D() 10/11

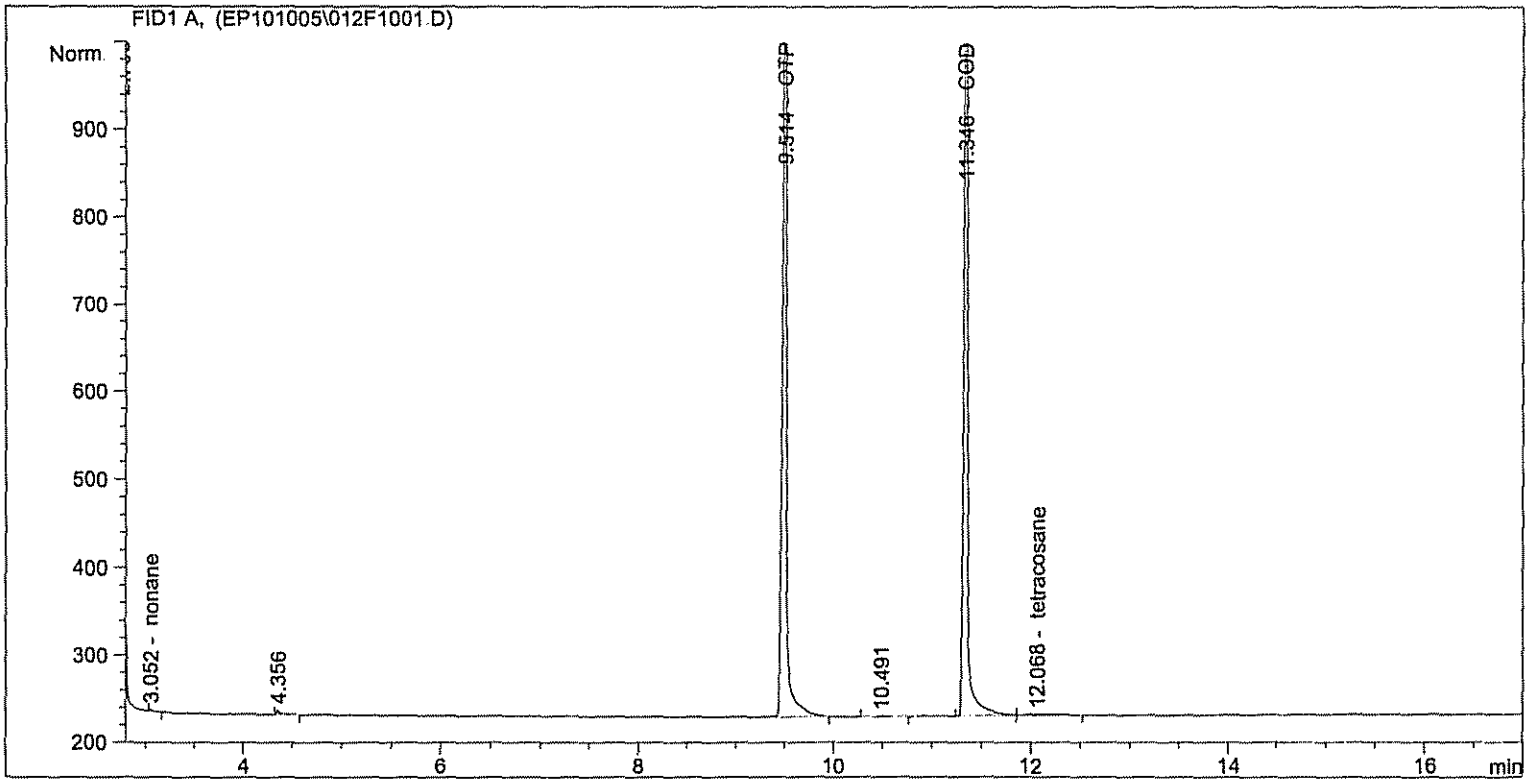
Sig. 1 in C:\HPCHEM\1\DATA\EP101005\012F1001.D

Ret Time	Area	Type	Width	Ref#	ng	Name
3.052	2.44613	BP	0.01	1	3.576e-6	nonane
3.872	0.00000	XX	0.00	2	0.00000	decane
5.410	0.00000	XX	0.00	3	0.00000	dodecane
6.610	0.00000	XX	0.00	4	0.00000	2-FB(frac2)
6.787	0.00000	XX	0.00	5	0.00000	tetradecane
7.485	0.00000	XX	0.00	6	0.00000	2-BrN(frac)
8.095	0.00000	XX	0.00	7	0.00000	hexadecane
9.080	0.00000	XX	0.00	8	0.00000	octadecane
9.514	3014.74707	BB	0.03	9	0.00441	OTP
9.551	0.00000	XX	0.00	10	0.00000	nonadecane
10.154	0.00000	XX	0.00	11	0.00000	eicosane
11.057	0.00000	XX	0.00	12	0.00000	docosane
11.346	2760.15454	BB	0.04	13	0.00403	COD
12.068	42.10498	BB	0.25	14	6.155e-5	tetracosane
12.525	0.00000	XX	0.00	15	0.00000	hexacosane
13.242	0.00000	XX	0.00	16	0.00000	octacosane
13.914	0.00000	XX	0.00	17	0.00000	triacontane
16.100	0.00000	XX	0.00	18	0.00000	hexatriacontane
0.579	3065.70703	PVS	7.97e	1	0.00448	* uncalibrated *
0.608	2.70312e4	VVS	0.01	2	0.03951	* uncalibrated *
0.646	1.88679e5	VVS	0.02	3	0.27581	* uncalibrated *
1.713	6.72792e7	VVS	0.83	4	98.34703	* uncalibrated *
1.737	7.58733e5	VVS	0.01	5	1.10910	* uncalibrated *
1.773	1.16005e4	VVS	0.03	6	0.01696	* uncalibrated *
1.825	1.04686e4	VVS	0.03	7	0.01530	* uncalibrated *
1.889	1.32653e4	VVS	0.05	8	0.01939	* uncalibrated *
1.938	8397.18555	VVS	0.03	9	0.01227	* uncalibrated *
1.992	1.59704e4	VVS	0.07	10	0.02335	* uncalibrated *
2.060	4689.86865	VVS	0.02	11	0.00686	* uncalibrated *
2.090	6508.38525	VVS	0.03	12	0.00951	* uncalibrated *
2.143	1.05934e4	VVS	0.05	13	0.01549	* uncalibrated *
2.207	7393.12939	VVS	0.03	14	0.01081	* uncalibrated *
2.246	5933.19482	VVS	0.03	15	0.00867	* uncalibrated *
2.287	6147.23340	VVS	0.03	16	0.00899	* uncalibrated *
2.332	5283.26221	VVS	0.03	17	0.00772	* uncalibrated *
2.383	8643.55664	VVS	0.05	18	0.01263	* uncalibrated *
2.448	6345.69336	VVS	0.03	19	0.00928	* uncalibrated *
2.498	7125.57520	VVS	0.05	20	0.01042	* uncalibrated *
2.553	5052.16406	VVS	0.03	21	0.00739	* uncalibrated *
2.602	5943.11768	VVS	0.04	22	0.00869	* uncalibrated *
2.647	2877.40137	VVS	0.03	23	0.00421	* uncalibrated *
2.678	2044.56738	VVS	0.03	24	0.00299	* uncalibrated *
2.714	1644.71497	VVS	0.03	25	0.00240	* uncalibrated *

==========

Injection Date : 10/10/2005 4:04:01 PM
Sample Name : 168467 x1 T
Acq. Operator : DCS
Acq. Instrument : GC6
Sequence File : C:\HPCHEM\1\SEQUENCE\101005.S
Acq. Method : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed : 10/6/2005 10:15:42 AM by DCS
TPH

Seq. Line : 10
Location : Vial 12
Inj : 1
Inj Volume : 10 µl



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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 9/20/2005 8:28:13 AM
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	3.052	BP	0.0192	2.44613	3.576e-6	nonane
2	3.872		0.0000	0.00000	0.00000	decane
3	5.410		0.0000	0.00000	0.00000	dodecane
4	6.610		0.0000	0.00000	0.00000	2-FB(frac2)
5	6.787		0.0000	0.00000	0.00000	tetradecane
6	7.485		0.0000	0.00000	0.00000	2-BrN(frac)
7	8.095		0.0000	0.00000	0.00000	hexadecane
8	9.080		0.0000	0.00000	0.00000	octadecane
9	9.514	BB	0.0344	3014.74707	0.00441	OTP
10	9.551		0.0000	0.00000	0.00000	nonadecane
11	10.154		0.0000	0.00000	0.00000	eicosane
12	11.057		0.0000	0.00000	0.00000	docosane

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.346	BB	0.0404	2760.15454	0.00403	COD
14	12.068	BB	0.2532	42.10498	6.155e-5	tetracosane
15	12.525		0.0000	0.00000	0.00000	hexacosane
16	13.242		0.0000	0.00000	0.00000	octacosane
17	13.914		0.0000	0.00000	0.00000	triacontane
18	16.100		0.0000	0.00000	0.00000	hexatriacontane

Totals : 5819.45273 8.507e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.579	PV S	7.97e-3	3065.70703	0.00448	?
2	0.608	VV S	0.0108	2.70312e4	0.03951	?
3	0.646	VV S	0.0200	1.88679e5	0.27581	?
4	1.713	VV S	0.8313	6.72792e7	98.34703	?
5	1.737	VV S	0.0169	7.58733e5	1.10910	?
6	1.773	VV S	0.0313	1.16005e4	0.01696	?
7	1.825	VV S	0.0353	1.04686e4	0.01530	?
8	1.889	VV S	0.0558	1.32653e4	0.01939	?
9	1.938	VV S	0.0343	8397.18555	0.01227	?
10	1.992	VV S	0.0793	1.59704e4	0.02335	?
11	2.060	VV S	0.0240	4689.86865	0.00686	?
12	2.090	VV S	0.0333	6508.38525	0.00951	?
13	2.143	VV S	0.0517	1.05934e4	0.01549	?
14	2.207	VV S	0.0389	7393.12939	0.01081	?
15	2.246	VV S	0.0376	5933.19482	0.00867	?
16	2.287	VV S	0.0363	6147.23340	0.00899	?
17	2.332	VV S	0.0310	5283.26221	0.00772	?
18	2.383	VV S	0.0588	8643.55664	0.01263	?
19	2.448	VV S	0.0383	6345.69336	0.00928	?
20	2.498	VV S	0.0540	7125.57520	0.01042	?
21	2.553	VV S	0.0357	5052.16406	0.00739	?
22	2.602	VV S	0.0458	5943.11768	0.00869	?
23	2.647	VV S	0.0306	2877.40137	0.00421	?
24	2.678	VV S	0.0302	2044.56738	0.00299	?
25	2.714	VV S	0.0314	1644.71497	0.00240	?
26	2.766	VBAS	0.0398	1519.61438	0.00222	?
27	4.356	BP	0.0357	13.98673	2.045e-5	?
28	10.491	VP	0.0905	8.83816	1.292e-5	?

Uncalib. totals : 6.84042e7 99.9915

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

==========
*** End of Report ***

External Standard Report

Data File Name : C:\HPCHEM\1\DATA\EP100705\024F1401.D
Operator : DCS
Instrument : GC6
Sample Name : G161-2180-5J x1 T
Run Time Bar Code: 167980
Acquired on : 7 Oct 05 8:48:16 PM
Report Created on: 10 Oct 2005 9:24:50 AM
Last Recalib on : 20 Sep 2005 8:28:13 AM
Multiplier : 1.0000

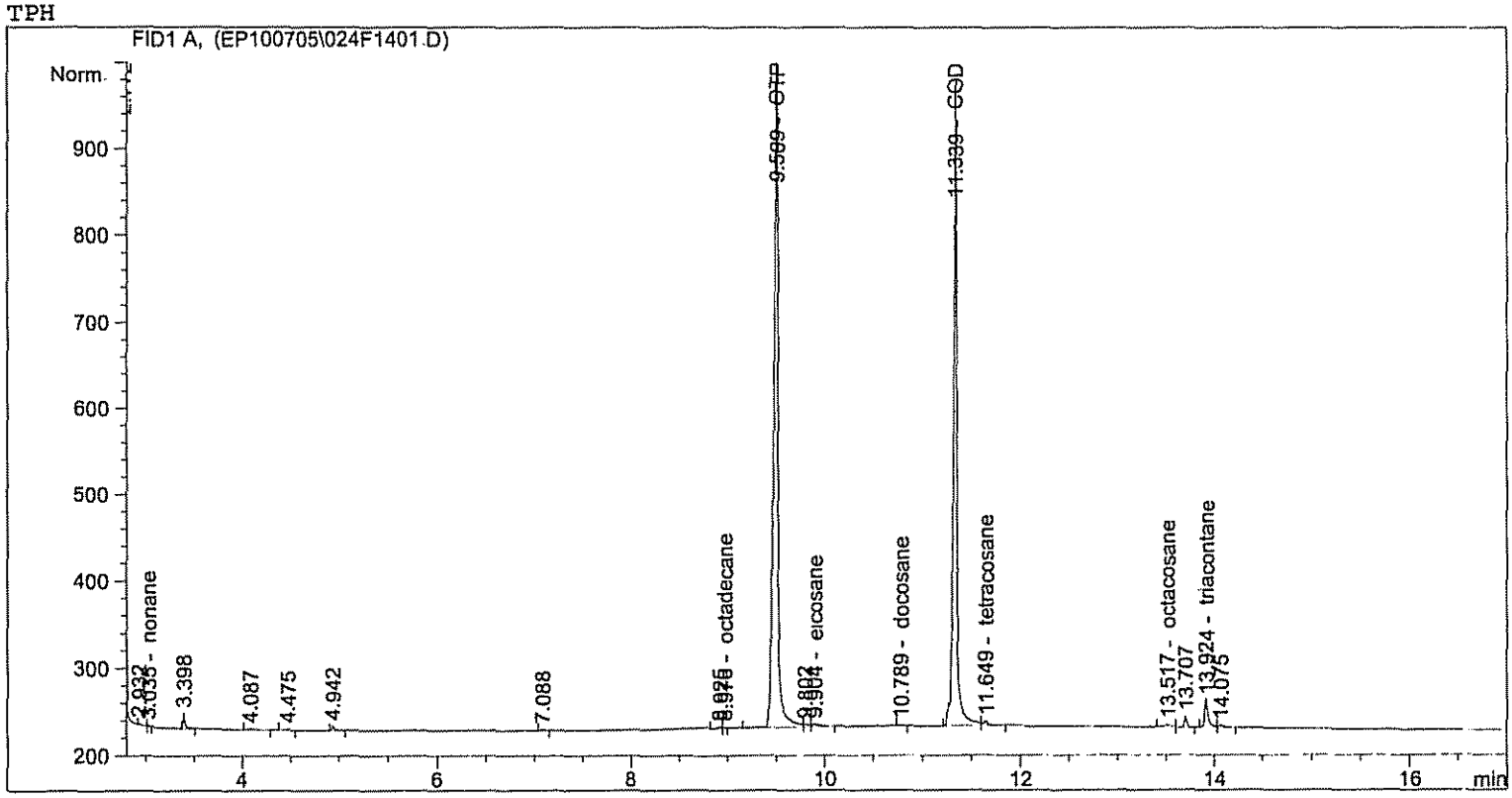
Page Number :
Vial Number : Vial 24
Injection Number : 1
Sequence Line : 14
Instrument Method: PROEPH.M
Analysis Method : EPHTK_F.M
Sample Amount : 10 µl
ISTD Amount :

DCI 10/10

Sig. 1 in C:\HPCHEM\1\DATA\EP100705\024F1401.D

Ret Time	Area	Type	Width	Ref#	ng	Name
3.035	1.29741	VP	0.01	1	1.619e-6	nonane
3.872	0.00000	XX	0.00	2	0.00000	decane
5.410	0.00000	XX	0.00	3	0.00000	dodecane
6.610	0.00000	XX	0.00	4	0.00000	2-FB(frac2)
6.787	0.00000	XX	0.00	5	0.00000	tetradecane
7.485	0.00000	XX	0.00	6	0.00000	2-BrN(frac)
8.095	0.00000	XX	0.00	7	0.00000	hexadecane
8.976	3.80573	VV	0.02	8	4.748e-6	octadecane
9.509	2494.98877	VV	0.03	9	0.00311	OTP
9.551	0.00000	XX	0.00	10	0.00000	nonadecane
9.904	20.10938	VV	0.08	11	2.509e-5	eicosane
10.789	4.50362	VV	0.04	12	5.619e-6	docosane
11.339	1792.37683	PV	0.03	13	0.00224	COD
11.649	21.00964	VP	0.05	14	2.621e-5	tetracosane
12.525	0.00000	XX	0.00	15	0.00000	hexacosane
13.517	8.10236	BV	0.04	16	1.011e-5	octacosane
13.924	84.05501	BV	0.04	17	0.00010	triacontane
16.100	0.00000	XX	0.00	18	0.00000	hexatriacontane
0.548	50.03088	PV	0.02	1	6.242e-5	* uncalibrated *
0.582	176.38547	VV	8.22e	2	0.00022	* uncalibrated *
1.752	7.91501e7	VVS	0.97	3	98.74679	* uncalibrated *
1.833	8.52455e5	VVS	0.01	4	1.06351	* uncalibrated *
1.868	1.23280e4	VVS	0.02	5	0.01538	* uncalibrated *
1.928	1.15644e4	VVS	0.03	6	0.01443	* uncalibrated *
1.971	9606.13574	VVS	0.03	7	0.01198	* uncalibrated *
2.029	1.23759e4	VVS	0.05	8	0.01544	* uncalibrated *
2.080	8688.71387	VVS	0.03	9	0.01084	* uncalibrated *
2.126	2.79947e4	VVS	0.13	10	0.03493	* uncalibrated *
2.271	8433.25977	VVS	0.04	11	0.01052	* uncalibrated *
2.318	7013.38086	VVS	0.03	12	0.00875	* uncalibrated *
2.371	6997.81006	VVS	0.04	13	0.00873	* uncalibrated *
2.412	5233.49121	VVS	0.03	14	0.00653	* uncalibrated *
2.457	7464.56885	VVS	0.04	15	0.00931	* uncalibrated *
2.489	4757.83154	VVS	0.02	16	0.00594	* uncalibrated *
2.521	1.33042e4	VVS	0.09	17	0.01660	* uncalibrated *
2.633	4599.22070	VVS	0.03	18	0.00574	* uncalibrated *
2.670	3150.01465	VVS	0.03	19	0.00393	* uncalibrated *
2.710	2940.10449	VVS	0.05	20	0.00367	* uncalibrated *
2.772	827.10474	VBAS	0.01	21	0.00103	* uncalibrated *
2.932	1.79794	BP	0.01	22	2.243e-6	* uncalibrated *
3.398	29.39787	VV	0.02	23	3.668e-5	* uncalibrated *
4.087	5.17399	VV	0.04	24	6.455e-6	* uncalibrated *
4.475	3.08463	VV	0.03	25	3.848e-6	* uncalibrated *

```
==================================================================
Injection Date  : 10/7/2005 8:48:16 PM          Seq. Line :  14
Sample Name     : 167980 x1 T                    Location : Vial 24
Acq. Operator   : DCS                                Inj :   1
Acq. Instrument : GC6                           Inj Volume : 10 µl
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed    : 10/6/2005 10:15:42 AM by DCS
TPH
```




```
==================================================================
                        Area Percent Report
==================================================================

Sorted By              :      Signal
Calib. Data Modified   :      9/20/2005 8:28:13 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	3.035	VP	0.0163	1.29741	1.619e-6	nonane
2	3.872		0.0000	0.00000	0.00000	decane
3	5.410		0.0000	0.00000	0.00000	dodecane
4	6.610		0.0000	0.00000	0.00000	2-FB(frac2)
5	6.787		0.0000	0.00000	0.00000	tetradecane
6	7.485		0.0000	0.00000	0.00000	2-BrN(frac)
7	8.095		0.0000	0.00000	0.00000	hexadecane
8	8.976	VV	0.0290	3.80573	4.748e-6	octadecane
9	9.509	VV	0.0374	2494.98877	0.00311	OTP
10	9.551		0.0000	0.00000	0.00000	nonadecane
11	9.904	VV	0.0830	20.10938	2.509e-5	eicosane
12	10.789	VV	0.0469	4.50362	5.619e-6	docosane
13	11.339	PV	0.0394	1792.37683	0.00224	COD

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
14	11.649	VP	0.0587	21.00964	2.621e-5	tetracosane
15	12.525		0.0000	0.00000	0.00000	hexacosane
16	13.517	BV	0.0445	8.10236	1.011e-5	octacosane
17	13.924	BV	0.0436	84.05501	0.00010	triacontane
18	16.100		0.0000	0.00000	0.00000	hexatriacontane

Totals : 4430.24876 5.527e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.548	PV	0.0212	50.03088	6.242e-5	?
2	0.582	VV	8.22e-3	176.38547	0.00022	?
3	1.752	VV S	0.9728	7.91501e7	98.74679	?
4	1.833	VV S	0.0176	8.52455e5	1.06351	?
5	1.868	VV S	0.0273	1.23280e4	0.01538	?
6	1.928	VV S	0.0381	1.15644e4	0.01443	?
7	1.971	VV S	0.0361	9606.13574	0.01198	?
8	2.029	VV S	0.0506	1.23759e4	0.01544	?
9	2.080	VV S	0.0385	8688.71387	0.01084	?
10	2.126	VV S	0.1331	2.79947e4	0.03493	?
11	2.271	VV S	0.0440	8433.25977	0.01052	?
12	2.318	VV S	0.0350	7013.38086	0.00875	?
13	2.371	VV S	0.0423	6997.81006	0.00873	?
14	2.412	VV S	0.0335	5233.49121	0.00653	?
15	2.457	VV S	0.0433	7464.56885	0.00931	?
16	2.489	VV S	0.0274	4757.83154	0.00594	?
17	2.521	VV S	0.0942	1.33042e4	0.01660	?
18	2.633	VV S	0.0364	4599.22070	0.00574	?
19	2.670	VV S	0.0384	3150.01465	0.00393	?
20	2.710	VV S	0.0541	2940.10449	0.00367	?
21	2.772	VBAS	0.0170	827.10474	0.00103	?
22	2.932	BP	0.0173	1.79794	2.243e-6	?
23	3.398	VV	0.0249	29.39787	3.668e-5	?
24	4.087	VV	0.0495	5.17399	6.455e-6	?
25	4.475	VV	0.0322	3.08463	3.848e-6	?
26	4.942	VV	0.0325	11.77668	1.469e-5	?
27	7.088	VV	0.0424	4.15608	5.185e-6	?
28	8.925	VV	0.0528	8.17654	1.020e-5	?
29	9.802	VV	0.0508	12.32643	1.538e-5	?
30	13.707	VB	0.0365	27.05792	3.376e-5	?
31	14.075	VB	0.0646	11.78644	1.470e-5	?

Uncalib. totals : 8.01501e7 99.9945

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

==========
*** End of Report ***

EPH Calibration Raw Data

Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 09/13/05

Calibration Ranges and Limits

Range	MDL (2/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_9-C_{18} Aliphatics	3.84	12.2	100	10
C_{19}-C_{36} Aliphatics	0.57	1.8	100	10
C_{11}-C_{22} Aromatics	4.54	14.4	100	10

Calibration Concentration Levels

Range	Levels (µg/mL)	%RSD or CCC	Method of Quantitation
C_9-C_{18} Aliphatics	6	3.80	Calibration Factor
	30		
	60		
	120		
	240		
C_{19}-C_{36} Aliphatics	8	3.8	Calibration Factor
	40		
	80		
	160		
	320		
C_{11}-C_{22} Aromatics	17	7.9	Calibration Factor
	85		
	170		
	340		
	680		

Calibration Check Date: 09/13/05

Calibration Check

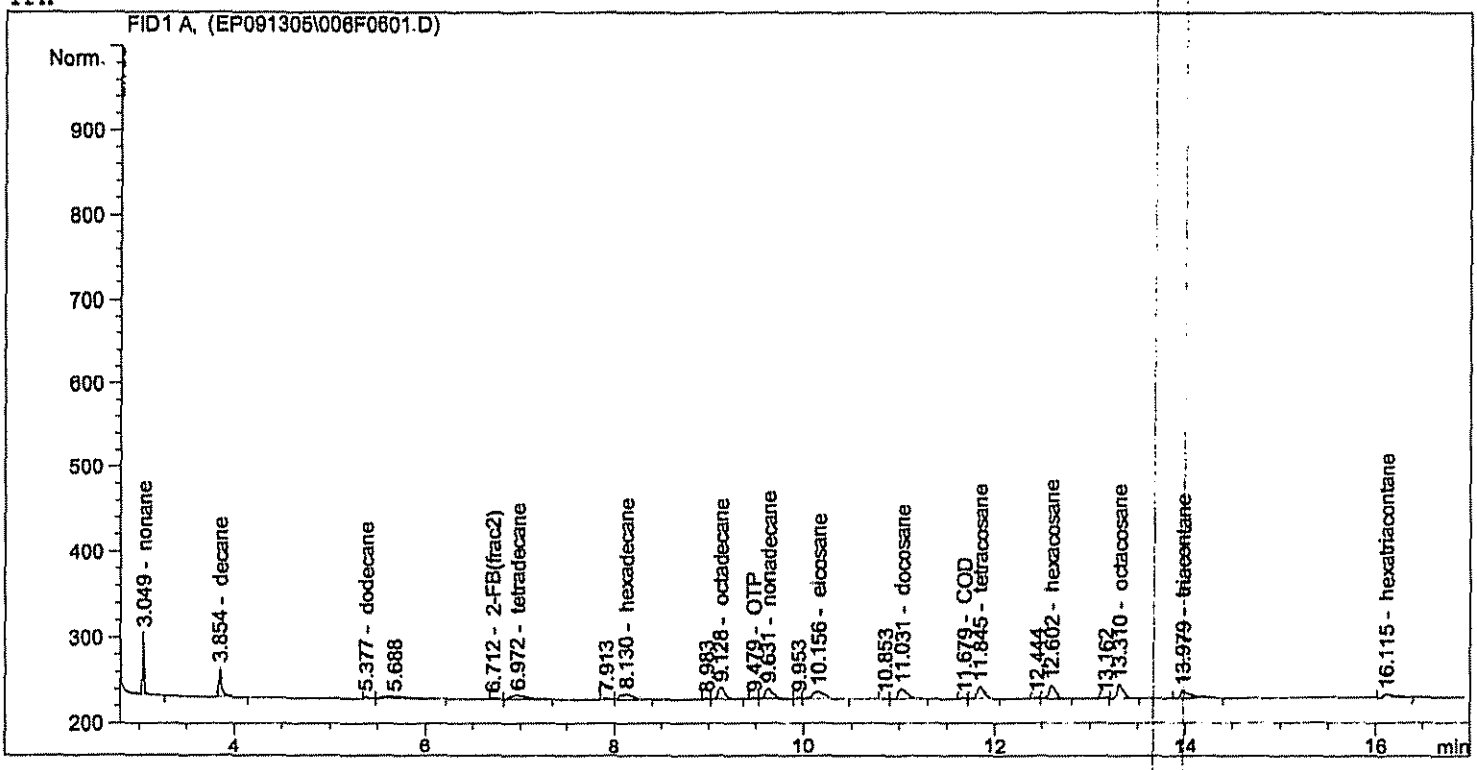
Range	Levels (µg/mL)	RPD
C_9-C_{18} Aliphatics	120	1.1
C_{19}-C_{36} Aliphatics	160	-2.3
C_{11}-C_{22} Aromatics	340	-4.1

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

Data File C:\HPCHEM\1\DATA\EP091305\006F0601.D Sample Name: K 1 ICAL

Injection Date	: 9/13/2005 6:41:59 PM	Seq. Line :	6
Sample Name	: K 1 ICAL	Location :	Vial 6
Acq. Operator	: DCS	Inj :	1
Acq. Instrument	: GC6	Inj Volume :	10 µl
Acq. Method	: C:\HPCHEM\1\METHODS\PROEPH.M		
Last changed	: 5/12/2005 1:48:41 PM by CLP		
Analysis Method	: C:\HPCHEM\1\METHODS\EPHTK_F.M		
Last changed	: 9/14/2005 10:37:54 AM by DCS (modified after loading)		

TPH



Area Percent Report

Sorted By	:	Signal
Calib. Data Modified	:	9/14/2005 10:37:54 AM
Multiplier	:	1.0000
Dilution	:	1.0000

Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	3.049	VP	0.0167	77.88595	9.631e-5	nonane
2	3.854	BB	0.0326	78.79640	9.743e-5	decane
3	5.377	PV	0.0328	6.93495	8.575e-6	dodecane
4	6.712	PB	0.0506	5.67988	7.023e-6	2-FB(frac2)
5	6.972	BB	0.1654	69.45234	8.588e-5	tetradecane
6	7.485		0.0000	0.00000	0.00000	2-BrN(frac)
7	8.130	BB	0.1233	70.44658	8.711e-5	hexadecane
8	9.128	VB	0.0724	74.09371	9.162e-5	octadecane
9	9.479	PV	0.0437	5.32447	6.584e-6	OTP
10	9.631	VB	0.0877	77.74606	9.614e-5	nonadecane
11	10.156	VB	0.1105	80.25751	9.924e-5	eicosane
12	11.031	VB	0.1032	80.82813	9.995e-5	docosane

Data File C:\HPCHEM\1\DATA\EP091305\006F0601.D Sample Name: K 1 ICAL

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.679	PV	0.0392	3.63239	4.492e-6	COD
14	11.845	VB	0.0830	77.58167	9.593e-5	tetracosane
15	12.602	VB	0.0787	79.42442	9.821e-5	hexacosane
16	13.310	VB	0.0700	78.39539	9.694e-5	octacosane
17	13.979	VB	0.1194	77.98347	9.643e-5	triacontane
18	16.115	PB	0.1259	33.44606	4.136e-5	hexatriacontane

Totals : 977.90938 1.209e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.546	PV	0.0294	133.16051	0.00016	?
2	0.582	VV	0.0169	64.52738	7.979e-5	?
3	1.785	VV S	0.9799	7.98927e7	98.78964	?
4	1.851	VV S	0.0174	8.33549e5	1.03071	?
5	1.911	VV S	0.0401	1.39599e4	0.01726	?
6	1.952	VV S	0.0340	9896.03711	0.01224	?
7	1.991	VV S	0.0741	1.89531e4	0.02344	?
8	2.083	VV S	0.0402	1.04657e4	0.01294	?
9	2.148	VV S	0.0429	1.11954e4	0.01384	?
10	2.193	VV S	0.0299	8060.81152	0.00997	?
11	2.235	VV S	0.0343	7665.64453	0.00948	?
12	2.275	VV S	0.0389	8020.46436	0.00992	?
13	2.326	VV S	0.0523	1.07722e4	0.01332	?
14	2.388	VV S	0.0291	5846.55957	0.00723	?
15	2.442	VV S	0.0395	8155.87646	0.01008	?
16	2.482	VV S	0.0285	5445.92822	0.00673	?
17	2.526	VV S	0.0424	6594.80908	0.00815	?
18	2.571	VV S	0.0290	5245.31006	0.00649	?
19	2.608	VV S	0.0282	4966.43604	0.00614	?
20	2.644	VV S	0.0291	3514.96094	0.00435	?
21	2.680	VV S	0.0600	3665.74097	0.00453	?
22	2.758	VBAS	0.0322	1594.48254	0.00197	?
23	5.688	VB	0.2327	61.53053	7.608e-5	?
24	7.913	BB	0.0517	6.21814	7.689e-6	?
25	8.983	PV	0.0413	5.33111	6.592e-6	?
26	9.953	BV	0.0408	6.29103	7.779e-6	?
27	10.853	PV	0.0469	5.09321	6.298e-6	?
28	12.444	PV	0.0423	3.65501	4.520e-6	?
29	13.162	PV	0.0425	3.14104	3.884e-6	?

Uncalib. totals : 8.08705e7 99.9988

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

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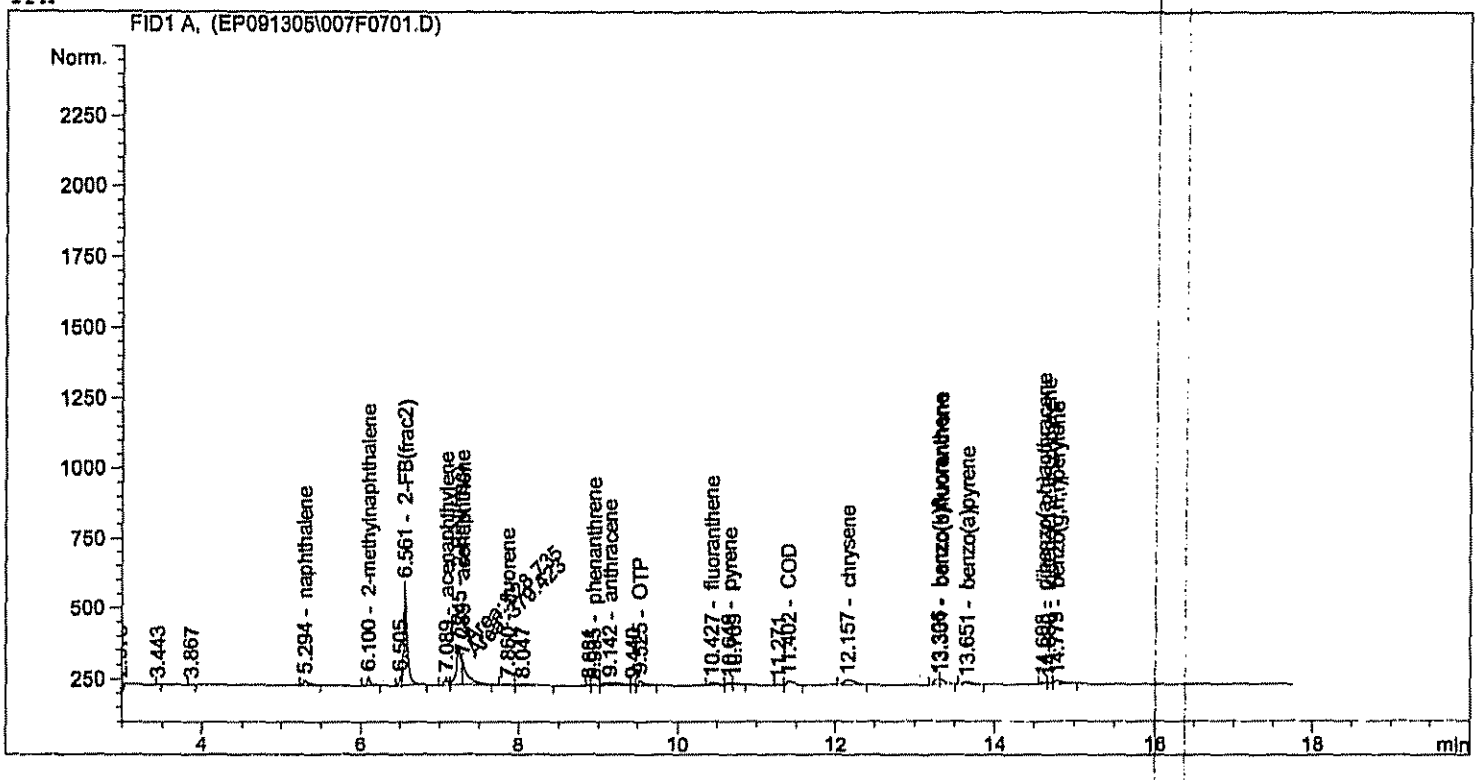
*** End of Report ***

Data File C:\HPCHEM\1\DATA\EP091305\007F0701.D Sample Name: R 1 ICAL

Injection Date	: 9/13/2005 7:08:47 PM	Seq. Line	: 7
Sample Name	: R 1 ICAL	Location	: Vial 7
Acq. Operator	: DCS	Inj	: 1
Acq. Instrument	: GC6	Inj Volume	: 10 µl
Acq. Method	: C:\HPCHEM\1\METHODS\PROEPH.M		
Last changed	: 5/12/2005 1:48:41 PM by CLP		
Analysis Method	: C:\HPCHEM\1\METHODS\EPH-R_F.M		
Last changed	: 9/14/2005 10:58:39 AM by DCS (modified after loading)		

TPH



Area Percent Report

Sorted By : Signal
Calib. Data Modified : 9/14/2005 10:58:33 AM
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.294	BB	0.0599	81.13950	0.00010	naphthalene
2	6.100	BB	0.0415	84.12633	0.00010	2-methylnaphthalene
3	6.561	VB	0.0409	1046.99292	0.00129	2-FB(frac2)
4	7.089	PV	0.0400	73.48611	9.076e-5	acenaphthylene
5	7.245	MF	0.0676	528.73456	0.00065	2-BrN(frac)
6	7.289	FM	0.0757	379.42307	0.00047	acenaphthene
7	7.860	PV	0.0820	21.26535	2.626e-5	fluorene
8	8.935	VB	0.0547	7.81919	9.657e-6	phenanthrene
9	9.142	BV	0.1795	145.42139	0.00018	anthracene
10	9.525	VB	0.0620	83.26421	0.00010	OTP
11	10.427	PV	0.1003	67.44508	8.330e-5	fluoranthene
12	10.649	VV	0.0746	40.02744	4.944e-5	pyrene

Data File C:\HPCHEM\1\DATA\EP091305\007F0701.D Sample Name: R 1 ICAL

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.402	BB	0.0750	75.77206	9.359e-5	COD
14	12.039		0.0000	0.00000	0.00000	benzo(a)anthracene
15	12.157	BB	0.1125	164.79250	0.00020	chrysene
16	13.306	PV	0.0647	91.38042	0.00011	benzo(k)fluoranthene
17	13.331	VB	0.0511	73.58042	9.088e-5	benzo(b)fluoranthene
18	13.651	PP	0.0878	66.25091	8.183e-5	benzo(a)pyrene
19	14.608	PV	0.0514	36.04634	4.452e-5	dibenzo(a,h)anthracene
20	14.680	VV	0.0506	28.19849	3.483e-5	indeno(1,2,3-cd)pyrene
21	14.779	VB	0.1077	102.96542	0.00013	benzo(g,h,i)perylene

Totals : 3198.13171 3.950e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.555	PV	0.0133	620.81244	0.00077	?
2	0.582	VV S	0.0132	7360.28809	0.00909	?
3	0.682	VV S	0.0270	5.98010e5	0.73860	?
4	1.815	VV S	0.9690	7.93626e7	98.02018	?
5	1.851	VV S	0.0180	8.51638e5	1.05185	?
6	1.938	VV S	0.0544	1.71000e4	0.02112	?
7	1.997	VV S	0.0334	1.03198e4	0.01275	?
8	2.044	VV S	0.0418	1.06668e4	0.01317	?
9	2.097	VV S	0.0467	1.14786e4	0.01418	?
10	2.140	VV S	0.0275	6547.15869	0.00809	?
11	2.181	VV S	0.0298	8487.78613	0.01048	?
12	2.221	VV S	0.0304	6228.55762	0.00769	?
13	2.260	VV S	0.0337	9288.24512	0.01147	?
14	2.335	VV S	0.0571	1.11073e4	0.01372	?
15	2.388	VV S	0.0579	1.09857e4	0.01357	?
16	2.442	VV S	0.0293	5991.75586	0.00740	?
17	2.485	VV S	0.0932	1.40085e4	0.01730	?
18	2.577	VV S	0.0287	5261.98291	0.00650	?
19	2.625	VV S	0.0777	1.16714e4	0.01442	?
20	2.746	VV S	0.0321	1953.26697	0.00241	?
21	2.780	VB S	0.0178	843.51141	0.00104	?
22	2.814	BB X	0.0113	36.70873	4.534e-5	?
23	2.975	PP	0.0172	1.08075	1.335e-6	?
24	3.443	PB	0.0249	3.61961	4.471e-6	?
25	3.867	PB	0.0299	2.38126	2.941e-6	?
26	6.505	PV	0.0301	55.48806	6.853e-5	?
27	8.047	VP	0.1374	51.39924	6.348e-5	?
28	8.881	PV	0.0311	3.18710	3.936e-6	?
29	9.440	VV	0.0392	7.51367	9.280e-6	?
30	10.709	VB	0.0632	38.63117	4.771e-5	?
31	11.271	PB	0.0408	4.48564	5.540e-6	?

Uncalib. totals : 8.09624e7 99.9961

Results obtained with enhanced integrator!
3 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found
Warning : Elution order of calibrated compounds may have changed

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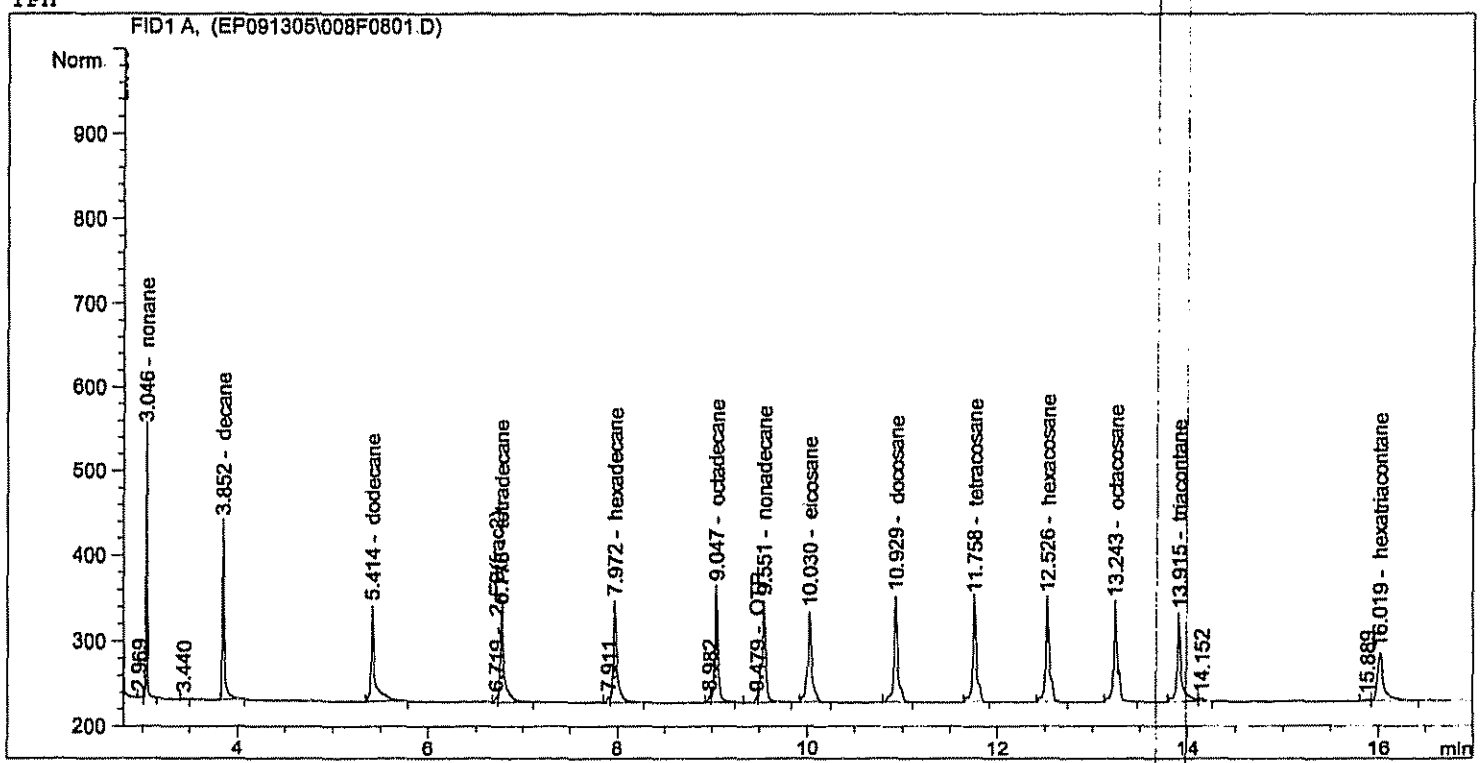
*** End of Report ***

Data File C:\HPCHEM\1\DATA\EP091305\008F0801.D Sample Name: K 5 ICAL

Injection Date	: 9/13/2005 7:35:40 PM	Seq. Line :	8
Sample Name	: K 5 ICAL	Location :	Vial 8
Acq. Operator	: DCS	Inj :	1
Acq. Instrument	: GC6	Inj Volume :	10 µl
Acq. Method	: C:\HPCHEM\1\METHODS\PROEPH.M		
Last changed	: 5/12/2005 1:48:41 PM by CLP		
Analysis Method	: C:\HPCHEM\1\METHODS\EPHTK_F.M		
Last changed	: 9/14/2005 10:35:55 AM by DCS (modified after loading)		

TPH



Area Percent Report

Sorted By	:	Signal
Calib. Data Modified	:	9/14/2005 10:34:18 AM
Multiplier	:	1.0000
Dilution	:	1.0000

Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	3.046	VB	0.0176	343.04227	0.00043	nonane
2	3.852	BB	0.0230	324.12643	0.00040	decane
3	5.414	PB	0.0399	325.25610	0.00041	dodecane
4	6.719	BV	0.0272	11.36900	1.419e-5	2-FB(frac2)
5	6.776	VB	0.0421	326.32327	0.00041	tetradecane
6	7.485		0.0000	0.00000	0.00000	2-BrN(frac)
7	7.972	VB	0.0396	330.09827	0.00041	hexadecane
8	9.047	VV	0.0350	336.09415	0.00042	octadecane
9	9.479	VV	0.0252	11.67736	1.457e-5	OTP
10	9.551	VB	0.0394	340.57483	0.00042	nonadecane
11	10.030	BP	0.0442	343.38861	0.00043	eicosane
12	10.929	BB	0.0427	343.82516	0.00043	docosane

Data File C:\HPCHEM\1\DATA\EP091305\008F0801.D Sample Name: K 5 ICAL

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.435		0.0000	0.00000	0.00000	COD
14	11.758	PB	0.0433	342.29767	0.00043	tetracosane
15	12.526	BB	0.0435	348.70538	0.00044	hexacosane
16	13.243	BB	0.0447	344.34097	0.00043	octacosane
17	13.915	PV	0.0477	331.40210	0.00041	triacontane
18	16.019	VB	0.0684	259.43002	0.00032	hexatriacontane

Totals : 4661.95160 5.817e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.545	PV	0.0242	145.61394	0.00018	?
2	0.582	VV	0.0162	97.68255	0.00012	?
3	0.687	VV S	0.0324	7.93376e5	0.98996	?
4	1.810	VV S	0.9623	7.83677e7	97.78553	?
5	1.837	VV S	0.0175	8.28214e5	1.03343	?
6	1.881	VV S	0.0248	9064.03223	0.01131	?
7	1.921	VV S	0.0363	1.03244e4	0.01288	?
8	1.974	VV S	0.0436	1.30136e4	0.01624	?
9	2.019	VV S	0.0352	9635.37305	0.01202	?
10	2.067	VV S	0.0457	1.16990e4	0.01460	?
11	2.124	VV S	0.0437	1.11201e4	0.01388	?
12	2.178	VV S	0.0546	1.13040e4	0.01410	?
13	2.241	VV S	0.0385	9558.62012	0.01193	?
14	2.291	VV S	0.0408	8140.55957	0.01016	?
15	2.334	VV S	0.0278	5464.46680	0.00682	?
16	2.371	VV S	0.0314	5923.30762	0.00739	?
17	2.418	VV S	0.0414	7483.15137	0.00934	?
18	2.460	VV S	0.0325	6156.72510	0.00768	?
19	2.510	VV S	0.0389	6751.61377	0.00842	?
20	2.567	VV S	0.0524	8546.40918	0.01066	?
21	2.616	VV S	0.0451	7110.93945	0.00887	?
22	2.662	VV S	0.0414	4044.55762	0.00505	?
23	2.726	VV S	0.0265	1495.43152	0.00187	?
24	2.759	VBAS	0.0263	1354.50513	0.00169	?
25	2.969	BP	0.0197	1.36202	1.700e-6	?
26	3.440	PV	0.0271	3.07210	3.833e-6	?
27	7.911	VV	0.0288	12.81693	1.599e-5	?
28	8.982	VV	0.0249	11.92845	1.488e-5	?
29	14.152	VB	0.0469	11.95389	1.492e-5	?
30	15.889	PV	0.0630	5.11125	6.378e-6	?

Uncalib. totals : 8.01378e7 99.9942

Results obtained with enhanced integrator!
3 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found
Warning : Elution order of calibrated compounds may have changed

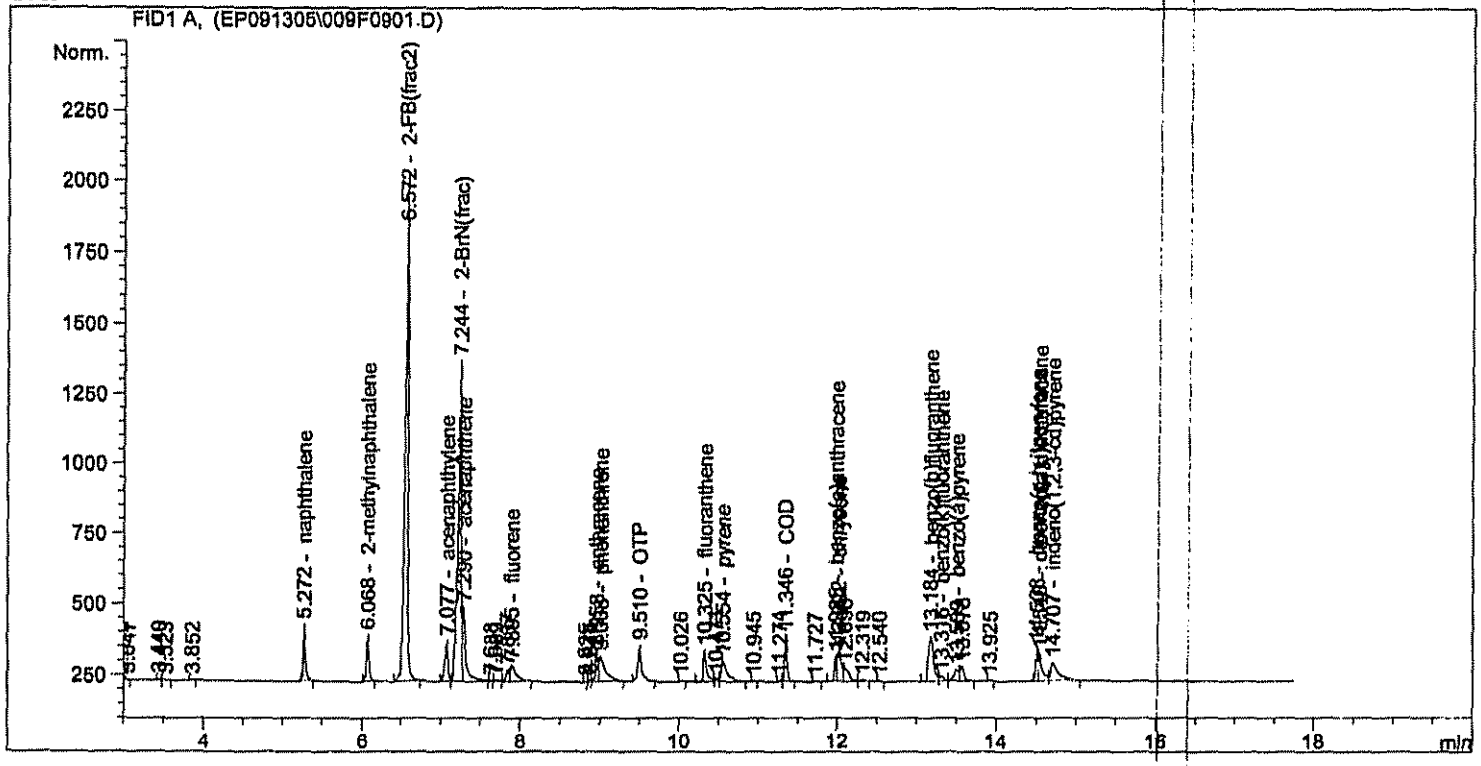
==========

*** End of Report ***

Data File C:\HPCHEM\1\DATA\EP091305\009F0901.D Sample Name: R 5 ICAL

Injection Date	: 9/13/2005 8:02:10 PM	Seq. Line :	9
Sample Name	: R 5 ICAL	Location :	Vial 9
Acq. Operator	: DCS	Inj :	1
Acq. Instrument	: GC6	Inj Volume :	10 µl
Acq. Method	: C:\HPCHEM\1\METHODS\PROEPH.M		
Last changed	: 5/12/2005 1:48:41 PM by CLP		
Analysis Method	: C:\HPCHEM\1\METHODS\EPH-R_F.M		
Last changed	: 9/14/2005 10:59:56 AM by DCS (modified after loading)		

TPH



Area Percent Report

Sorted By	:	Signal
Calib. Data Modified	:	9/14/2005 11:02:14 AM
Multiplier	:	1.0000
Dilution	:	1.0000

Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.272	PB	0.0279	367.76553	0.00046	naphthalene
2	6.068	PB	0.0333	362.58273	0.00045	2-methylnaphthalene
3	6.572	PB	0.0365	4644.14209	0.00579	2-FB(frac2)
4	7.077	PV	0.0372	375.10001	0.00047	acenaphthylene
5	7.244	VV	0.0374	3269.27588	0.00408	2-BrN(frac)
6	7.290	VB	0.0372	715.74603	0.00089	acenaphthene
7	7.895	VB	0.0617	284.13620	0.00035	fluorene
8	8.958	VV	0.0341	244.46634	0.00030	anthracene
9	9.008	VB	0.0668	460.05322	0.00057	phenanthrene
10	9.510	BB	0.0452	410.27661	0.00051	OTP
11	10.325	BV	0.0443	340.93533	0.00043	fluoranthene
12	10.554	VB	0.0693	393.43961	0.00049	pyrene

Data File C:\HPCHEM\1\DATA\EP091305\009F0901.D Sample Name: R 5 ICAL

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.346	VB	0.0324	341.68982	0.00043	COD
14	11.985	BV	0.0301	166.88100	0.00021	benzo(a)anthracene
15	12.022	VV	0.0478	381.17319	0.00048	chrysene
16	13.184	BV	0.0574	712.49707	0.00089	benzo(b)fluoranthene
17	13.316	VV	0.0594	64.06521	7.992e-5	benzo(k)fluoranthene
18	13.509	VV	0.0601	178.75031	0.00022	benzo(a)pyrene
19	14.508	BV	0.0293	225.88249	0.00028	benzo(g,h,i)perylene
20	14.540	VV	0.0461	318.33463	0.00040	dibenzo(a,h)anthracene
21	14.707	VB	0.0867	433.12628	0.00054	indeno(1,2,3-cd)pyrene

Totals : 1.46903e4 1.833e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.559	PV S	7.53e-3	2384.86719	0.00297	?
2	0.588	VV S	0.0135	3.71264e4	0.04631	?
3	1.793	VV S	0.9672	7.91383e7	98.72009	?
4	1.843	VV S	0.0171	8.31569e5	1.03733	?
5	1.931	VV S	0.0387	1.36160e4	0.01699	?
6	1.991	VV S	0.0523	1.47347e4	0.01838	?
7	2.038	VV S	0.0312	8800.65234	0.01098	?
8	2.086	VV S	0.0320	8903.28027	0.01111	?
9	2.136	VV S	0.0666	1.43888e4	0.01795	?
10	2.207	VV S	0.0358	9873.52734	0.01232	?
11	2.245	VV S	0.0263	5229.81543	0.00652	?
12	2.277	VV S	0.0404	7757.29688	0.00968	?
13	2.342	VV S	0.0483	8566.73828	0.01069	?
14	2.394	VV S	0.0425	7644.32861	0.00954	?
15	2.452	VV S	0.0569	1.04455e4	0.01303	?
16	2.508	VV S	0.0314	5849.02393	0.00730	?
17	2.544	VV S	0.0440	6793.97363	0.00848	?
18	2.596	VV S	0.0640	1.11695e4	0.01393	?
19	2.685	VV S	0.0283	2344.26514	0.00292	?
20	2.729	VV S	0.0294	1975.50452	0.00246	?
21	2.764	VB S	0.0255	1468.94153	0.00183	?
22	2.799	BB T	0.0213	86.22366	0.00011	?
23	2.972	PP	0.0183	1.55628	1.941e-6	?
24	3.047	BB	0.0168	3.09531	3.861e-6	?
25	3.440	PB	0.0209	5.72804	7.145e-6	?
26	3.523	BB	0.0347	4.08151	5.091e-6	?
27	3.852	BB	0.0265	3.97434	4.958e-6	?
28	7.633	BV	0.0471	9.81497	1.224e-5	?
29	7.689	VV	0.0593	13.57709	1.694e-5	?
30	7.837	VV	0.0388	103.16145	0.00013	?
31	8.825	PV	0.0217	1.88326	2.349e-6	?
32	8.875	VV	0.0284	13.65879	1.704e-5	?
33	10.026	BB	0.0314	3.57364	4.458e-6	?
34	10.471	VV	0.0429	34.21632	4.268e-5	?
35	10.945	BP	0.0231	3.55703	4.437e-6	?
36	11.274	PV	0.0342	15.00304	1.872e-5	?
37	11.727	PB	0.0340	3.95900	4.939e-6	?
38	12.096	VV	0.0517	196.81435	0.00025	?
39	12.319	VB	0.0530	19.32568	2.411e-5	?
40	12.540	PB	0.0245	2.98506	3.724e-6	?
41	13.578	VB	0.0507	173.76591	0.00022	?
42	13.925	PB	0.0253	3.06778	3.827e-6	?

Uncalib. totals : 8.01496e7 99.9817

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

GC6 9/14/2005 11:03:40 AM DCS

Data File C:\HPCHEM\1\DATA\EP091305\009F0901.D

Sample Name: R 5 ICAL

Warning : Elution order of calibrated compounds may have changed

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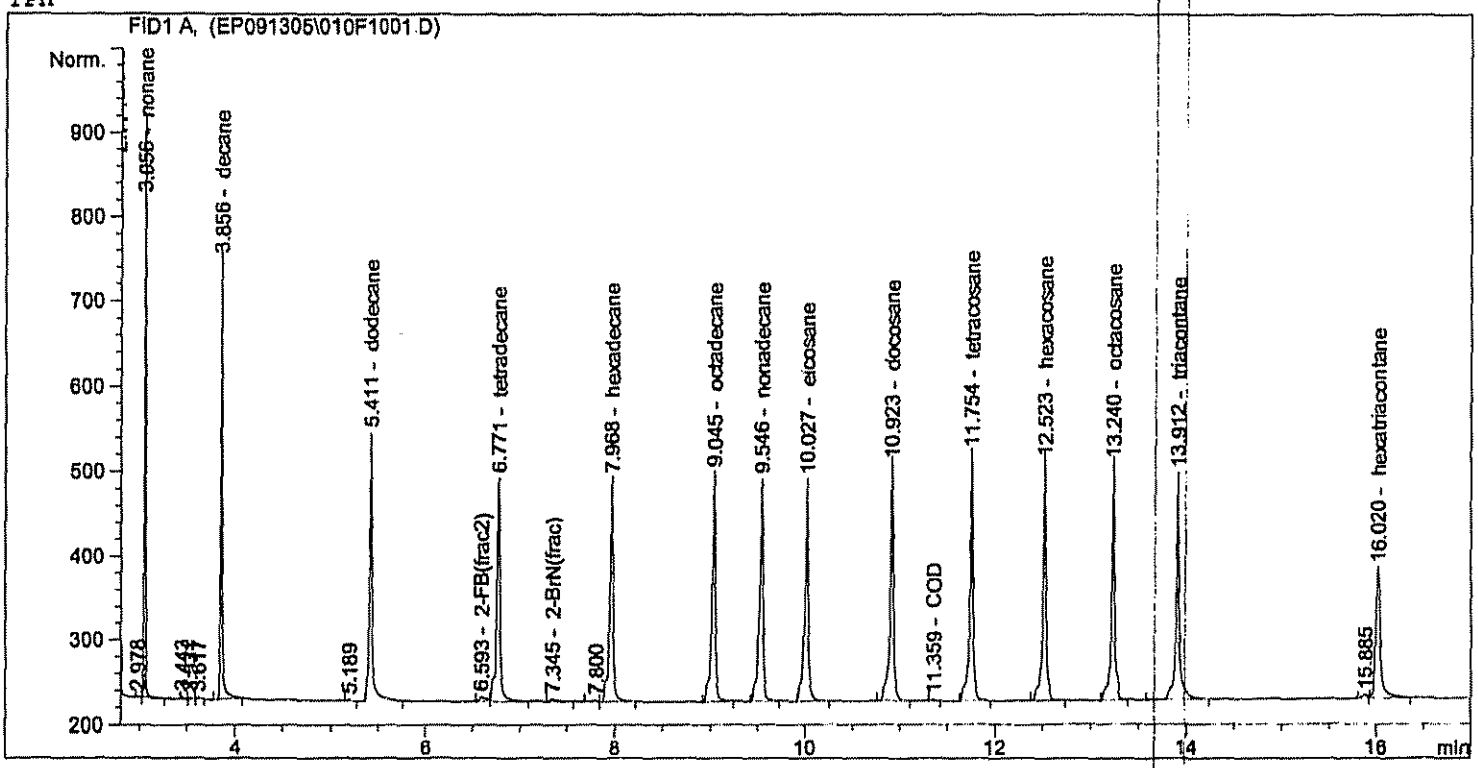
*** End of Report ***

Data File C:\HPCHEM\1\DATA\EP091305\010F1001.D Sample Name: K 10 ICAL

Injection Date	: 9/13/2005 8:28:43 PM	Seq. Line	: 10
Sample Name	: K 10 ICAL	Location	: Vial 10
Acq. Operator	: DCS	Inj	: 1
Acq. Instrument	: GC6	Inj Volume	: 10 µl
Acq. Method	: C:\HPCHEM\1\METHODS\PROEPH.M		
Last changed	: 5/12/2005 1:48:41 PM by CLP		
Analysis Method	: C:\HPCHEM\1\METHODS\EPHTK_F.M		
Last changed	: 9/14/2005 10:35:55 AM by DCS (modified after loading)		

TPH



Area Percent Report

Sorted By : Signal
Calib. Data Modified : 9/14/2005 10:34:18 AM
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	3.056	VB	0.0161	700.91272	0.00086	nonane
2	3.856	PB	0.0199	663.43158	0.00081	decane
3	5.411	BB	0.0309	679.01575	0.00083	dodecane
4	6.593	VV	0.0616	23.50243	2.878e-5	2-FB(frac2)
5	6.771	VB	0.0375	694.02704	0.00085	tetradecane
6	7.345	BP	0.0718	16.23214	1.988e-5	2-BrN(frac)
7	7.968	VB	0.0364	691.62714	0.00085	hexadecane
8	9.045	VB	0.0358	697.49384	0.00085	octadecane
9	9.546	VV	0.0370	702.22522	0.00086	nonadecane
10	9.565		0.0000	0.00000	0.00000	OTP
11	10.027	BB	0.0368	697.99286	0.00085	eicosane
12	10.923	BB	0.0389	699.74017	0.00086	docosane

Data File C:\HPCHEM\1\DATA\EP091305\010F1001.D Sample Name: K 10 ICAL

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.359	BP	0.0355	3.29371	4.033e-6	COD
14	11.754	BB	0.0375	697.97870	0.00085	tetracosane
15	12.523	BB	0.0388	704.88654	0.00086	hexacosane
16	13.240	PB	0.0386	693.70624	0.00085	octacosane
17	13.912	BB	0.0404	702.78375	0.00086	triacontane
18	16.020	VB	0.0567	572.79114	0.00070	hexatriacontane

Totals : 9641.64096 1.181e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.553	PV	0.0303	149.86821	0.00018	?
2	0.581	VV	0.0161	232.36293	0.00028	?
3	1.816	VV S	0.9853	8.06747e7	98.79070	?
4	1.854	VV S	0.0173	8.38433e5	1.02671	?
5	1.932	VV S	0.0308	1.09542e4	0.01341	?
6	1.966	VV S	0.0276	7934.83545	0.00972	?
7	2.003	VV S	0.0342	1.06479e4	0.01304	?
8	2.050	VV S	0.0267	8127.57568	0.00995	?
9	2.098	VV S	0.0580	1.31915e4	0.01615	?
10	2.144	VV S	0.0250	5884.71484	0.00721	?
11	2.178	VV S	0.0465	1.01411e4	0.01242	?
12	2.234	VV S	0.0356	8019.29639	0.00982	?
13	2.269	VV S	0.0406	8208.63281	0.01005	?
14	2.338	VV S	0.1204	2.13912e4	0.02619	?
15	2.506	VV S	0.0918	1.45932e4	0.01787	?
16	2.555	VV S	0.0264	3722.32056	0.00456	?
17	2.585	VV S	0.0212	2981.75244	0.00365	?
18	2.607	VV S	0.0505	6870.87891	0.00841	?
19	2.677	VV S	0.0283	2848.11230	0.00349	?
20	2.708	VV S	0.0268	1356.94141	0.00166	?
21	2.748	VV S	0.0291	1587.79443	0.00194	?
22	2.771	VBAS	0.0170	590.94861	0.00072	?
23	2.978	BP	0.0196	1.55376	1.903e-6	?
24	3.443	PV	0.0198	3.38793	4.149e-6	?
25	3.531	VV	0.0301	2.12564	2.603e-6	?
26	3.617	VP	0.0198	2.45576	3.007e-6	?
27	5.189	VB	0.0254	2.43020	2.976e-6	?
28	7.800	VP	0.0397	3.96562	4.856e-6	?
29	15.885	PV	0.0632	16.82550	2.060e-5	?

Uncalib. totals : 8.16526e7 99.9882

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

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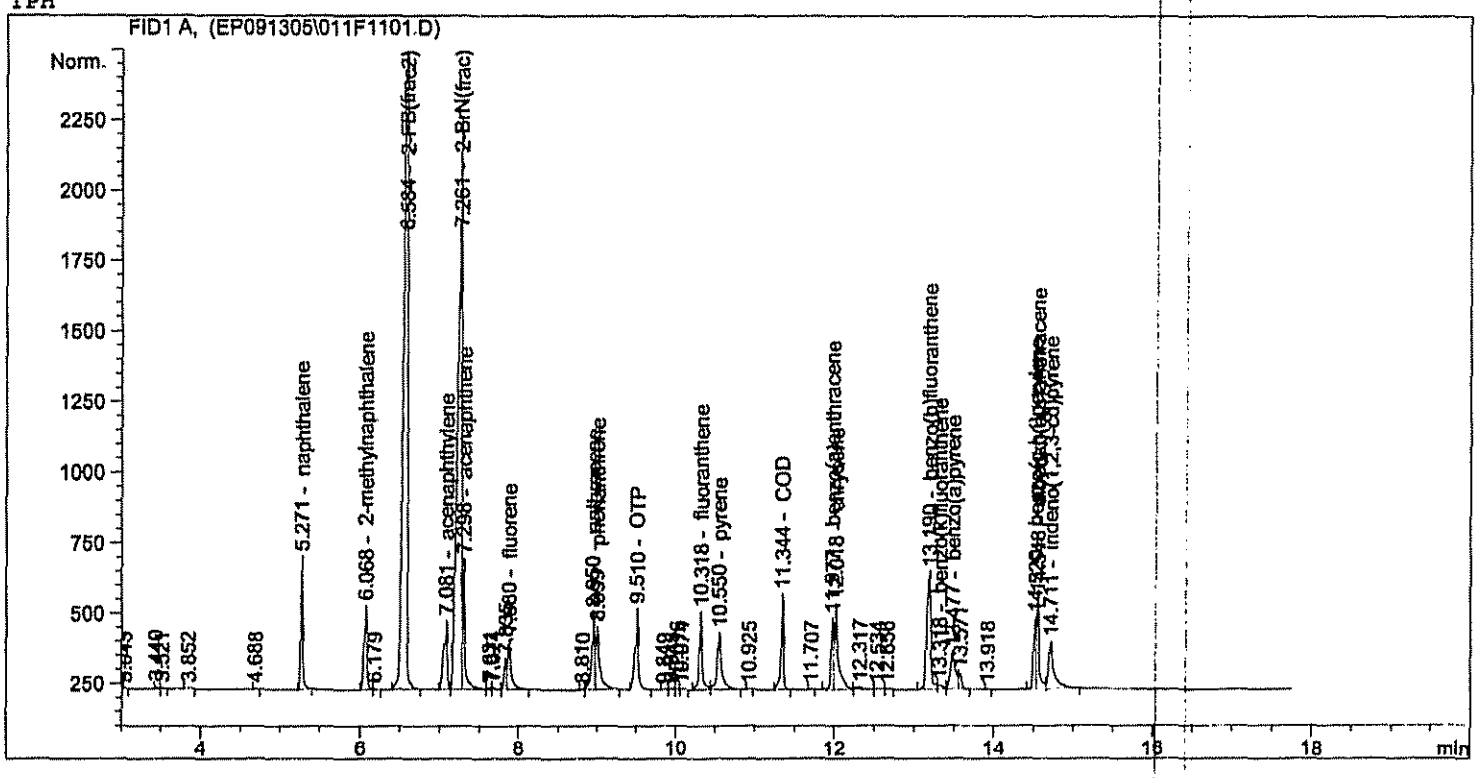
*** End of Report ***

Data File C:\HPCHEM\1\DATA\EP091305\011F1101.D Sample Name: R 10 ICAL

Injection Date	: 9/13/2005 8:54:55 PM	Seq. Line :	11
Sample Name	: R 10 ICAL	Location :	Vial 11
Acq. Operator	: DCS	Inj :	1
Acq. Instrument	: GC6	Inj Volume :	10 µl
Acq. Method	: C:\HPCHEM\1\METHODS\PROEPH.M		
Last changed	: 5/12/2005 1:48:41 PM by CLP		
Analysis Method	: C:\HPCHEM\1\METHODS\EPH-R_F.M		
Last changed	: 9/14/2005 10:59:56 AM by DCS (modified after loading)		

TPH



Area Percent Report

Sorted By : Signal
Calib. Data Modified : 9/14/2005 11:02:14 AM
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.271	PB	0.0244	786.29749	0.00099	naphthalene
2	6.068	BV	0.0356	761.09143	0.00096	2-methylnaphthalene
3	6.584	PB	0.0458	9328.48438	0.01173	2-FB(frac2)
4	7.081	PV	0.0421	761.97107	0.00096	acenaphthylene
5	7.261	VV	0.0453	7018.64160	0.00882	2-BrN(frac)
6	7.298	VB	0.0270	912.75476	0.00115	acenaphthene
7	7.880	VB	0.0432	543.69373	0.00068	fluorene
8	8.950	VV	0.0351	685.11798	0.00086	anthracene
9	8.999	VB	0.0474	780.34796	0.00098	phenanthrene
10	9.510	BB	0.0395	829.02686	0.00104	OTP
11	10.318	BV	0.0388	735.92712	0.00093	fluoranthene
12	10.550	VP	0.0593	826.00928	0.00104	pyrene

Data File C:\HPCHEM\1\DATA\EP091305\011F1101.D Sample Name: R 10 ICAL

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.344	PB	0.0318	723.87555	0.00091	COD
14	11.977	BV	0.0354	580.78644	0.00073	benzo(a)anthracene
15	12.018	VV	0.0420	946.56409	0.00119	chrysene
16	13.190	BV	0.0505	1518.81335	0.00191	benzo(b)fluoranthene
17	13.318	VV	0.0575	55.73445	7.007e-5	benzo(k)fluoranthene
18	13.477	VV	0.0562	567.54773	0.00071	benzo(a)pyrene
19	14.520	BV	0.0352	615.87701	0.00077	benzo(g,h,i)perylene
20	14.548	VV	0.0294	679.00995	0.00085	dibenzo(a,h)anthracene
21	14.711	VB	0.0658	819.10919	0.00103	indeno(1,2,3-cd)pyrene

Totals : 3.04767e4 3.832e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.562	PV S	7.88e-3	2483.03003	0.00312	?
2	0.678	VV S	0.0325	6.87840e5	0.86476	?
3	1.763	VV S	0.9614	7.86715e7	98.90674	?
4	1.904	PV T	0.0666	1.71287e4	0.02153	?
5	1.945	VV S	0.0308	1.19986e4	0.01508	?
6	2.036	VV S	0.0670	1.67968e4	0.02112	?
7	2.079	VV S	0.0453	1.03469e4	0.01301	?
8	2.122	VV S	0.0355	8057.57813	0.01013	?
9	2.169	VV S	0.0390	8551.04004	0.01075	?
10	2.216	VV S	0.0328	7512.88086	0.00945	?
11	2.263	VV S	0.0390	7585.14502	0.00954	?
12	2.296	VV S	0.0363	7469.52734	0.00939	?
13	2.342	VV S	0.0246	4548.71387	0.00572	?
14	2.372	VV S	0.0292	5773.38623	0.00726	?
15	2.410	VV S	0.0360	6838.46875	0.00860	?
16	2.459	VV S	0.0357	6105.64600	0.00768	?
17	2.498	VV S	0.0285	5085.69629	0.00639	?
18	2.546	VV S	0.0460	6698.59326	0.00842	?
19	2.582	VV S	0.0471	6994.20898	0.00879	?
20	2.639	VV S	0.0239	3455.42017	0.00434	?
21	2.667	VV S	0.0239	2385.72217	0.00300	?
22	2.696	VV S	0.0255	1824.95923	0.00229	?
23	2.737	VV S	0.0291	1912.58508	0.00240	?
24	2.776	VB S	0.0235	1081.48694	0.00136	?
25	2.811	BB T	0.0169	60.00409	7.544e-5	?
26	2.971	PB	0.0207	2.49073	3.131e-6	?
27	3.045	BB	0.0198	2.89759	3.643e-6	?
28	3.440	PB	0.0198	10.73833	1.350e-5	?
29	3.521	BB	0.0255	5.91631	7.438e-6	?
30	3.852	BB	0.0327	5.24248	6.591e-6	?
31	4.688	PP	0.0273	5.80181	7.294e-6	?
32	6.179	VB	0.0388	12.28888	1.545e-5	?
33	7.631	BV	0.0416	20.99972	2.640e-5	?
34	7.674	VV	0.0412	27.47167	3.454e-5	?
35	7.835	VV	0.0313	232.77158	0.00029	?
36	8.810	BP	0.0248	4.34800	5.466e-6	?
37	9.849	PV	0.0345	3.10444	3.903e-6	?
38	9.945	VV	0.0394	10.67934	1.343e-5	?
39	10.016	VV	0.0348	5.31389	6.681e-6	?
40	10.074	VB	0.0435	4.96020	6.236e-6	?
41	10.925	BP	0.0304	3.11445	3.916e-6	?
42	11.707	PB	0.0263	5.72509	7.198e-6	?
43	12.317	VB	0.0822	60.13554	7.560e-5	?
44	12.534	BB	0.0470	7.29213	9.168e-6	?
45	12.656	BP	0.0336	3.57224	4.491e-6	?
46	13.571	VB	0.0385	141.30214	0.00018	?
47	13.918	BB	0.0243	2.10697	2.649e-6	?

Uncalib. totals : 7.95106e7 99.9617

Data File C:\HPCHEM\1\DATA\EP091305\011F1101.D Sample Name: R 10 ICAL

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

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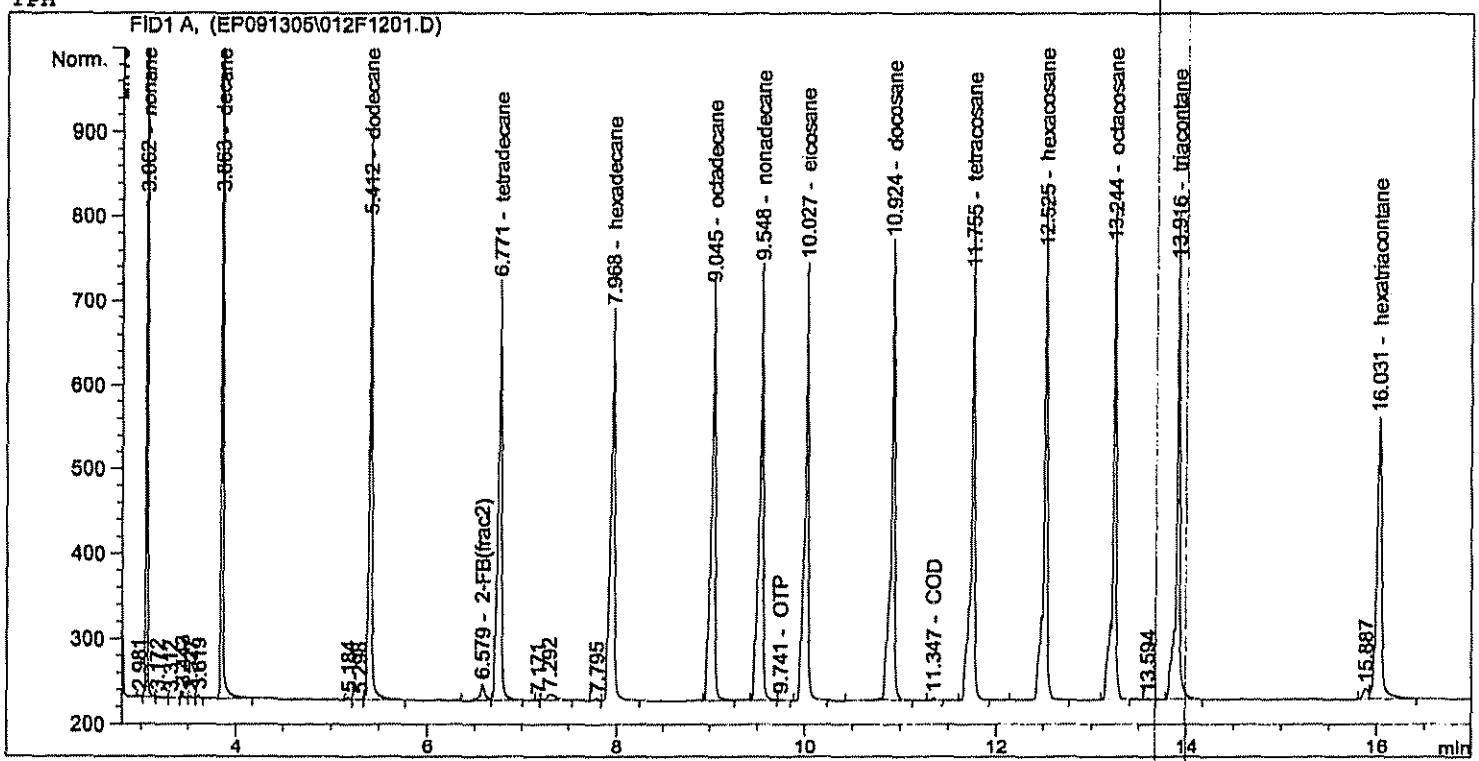
*** End of Report ***

Data File C:\HPCHEM\1\DATA\EP091305\012F1201.D Sample Name: K 20 ICAL

Injection Date	: 9/13/2005 9:21:42 PM	Seq. Line	: 12
Sample Name	: K 20 ICAL	Location	: Vial 12
Acq. Operator	: DCS	Inj	: 1
Acq. Instrument	: GC6	Inj Volume	: 10 µl
Acq. Method	: C:\HPCHEM\1\METHODS\PROEPH.M		
Last changed	: 5/12/2005 1:48:41 PM by CLP		
Analysis Method	: C:\HPCHEM\1\METHODS\EPHTK_F.M		
Last changed	: 9/14/2005 10:35:55 AM by DCS (modified after loading)		

TPH



Area Percent Report

Sorted By : Signal
Calib. Data Modified : 9/14/2005 10:34:18 AM
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	3.062	VV	0.0169	1357.95361	0.00167	nonane
2	3.863	VB	0.0197	1332.61572	0.00164	decane
3	5.412	VB	0.0286	1350.45117	0.00166	dodecane
4	6.579	VV	0.0494	70.58835	8.673e-5	2-FB(frac2)
5	6.771	VB	0.0368	1348.96143	0.00166	tetradecane
6	7.485		0.0000	0.00000	0.00000	2-BrN(frac)
7	7.968	VB	0.0404	1361.08679	0.00167	hexadecane
8	9.045	VB	0.0378	1372.96008	0.00169	octadecane
9	9.548	VV	0.0362	1374.80493	0.00169	nonadecane
10	9.741	VB	0.0373	4.68146	5.752e-6	OTP
11	10.027	PB	0.0369	1367.92712	0.00168	eicosane
12	10.924	PB	0.0396	1376.43213	0.00169	docosane

Data File C:\HPCHEM\1\DATA\EP091305\012F1201.D Sample Name: K 20 ICAL

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.347	BP	0.0367	6.65386	8.175e-6	COD
14	11.755	BP	0.0413	1358.80981	0.00167	tetracosane
15	12.525	BP	0.0378	1379.74634	0.00170	hexacosane
16	13.244	PP	0.0371	1354.36743	0.00166	octacosane
17	13.916	BB	0.0407	1357.15259	0.00167	triacontane
18	16.031	VB	0.0558	1188.57300	0.00146	hexatriacontane

Totals : 1.89638e4 2.330e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.063	BP	0.0436	3.12100	3.835e-6	?
2	0.554	PV	0.0204	194.37279	0.00024	?
3	0.662	VV S	0.0144	1.73531e5	0.21321	?
4	1.833	VV S	0.9655	8.02088e7	98.54998	?
5	1.858	VBAS	0.0180	8.36408e5	1.02767	?
6	1.896	BV T	0.0464	1.46182e4	0.01796	?
7	1.941	VV T	0.0327	1.21901e4	0.01498	?
8	1.985	VV T	0.0332	1.10351e4	0.01356	?
9	2.040	VV T	0.0447	1.30387e4	0.01602	?
10	2.098	VV T	0.0385	1.04743e4	0.01287	?
11	2.145	VV T	0.0433	9794.88770	0.01203	?
12	2.191	VV T	0.0365	8604.97461	0.01057	?
13	2.242	VV T	0.0324	8856.23047	0.01088	?
14	2.285	VV T	0.0331	7942.61572	0.00976	?
15	2.331	VV T	0.0398	9121.96094	0.01121	?
16	2.396	VV T	0.0331	7247.99414	0.00891	?
17	2.436	VV T	0.0255	5363.09424	0.00659	?
18	2.483	VV T	0.0387	7314.95313	0.00899	?
19	2.522	VV T	0.0268	4408.07227	0.00542	?
20	2.556	VV T	0.0294	4187.15576	0.00514	?
21	2.593	VV T	0.0269	4928.95703	0.00606	?
22	2.625	VV T	0.0305	4170.34717	0.00512	?
23	2.660	VV T	0.0624	5604.75830	0.00689	?
24	2.745	VV T	0.0218	1149.22595	0.00141	?
25	2.775	VBAT	0.0201	852.27722	0.00105	?
26	2.981	VP	0.0213	2.47900	3.046e-6	?
27	3.172	VV	0.0534	8.36312	1.028e-5	?
28	3.312	VP	0.0228	1.78647	2.195e-6	?
29	3.443	BV	0.0183	8.57488	1.054e-5	?
30	3.527	VV	0.0286	4.57140	5.617e-6	?
31	3.619	VB	0.0194	5.02985	6.180e-6	?
32	5.184	BP	0.0273	5.47837	6.731e-6	?
33	5.298	VV	0.0445	3.13704	3.854e-6	?
34	7.171	VV	0.0348	2.85603	3.509e-6	?
35	7.292	VB	0.0879	47.68880	5.859e-5	?
36	7.795	VP	0.0394	7.03419	8.643e-6	?
37	13.594	BB	0.0353	2.58580	3.177e-6	?
38	15.887	BV	0.0617	48.28326	5.932e-5	?

Uncalib. totals : 8.13700e7 99.9767

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

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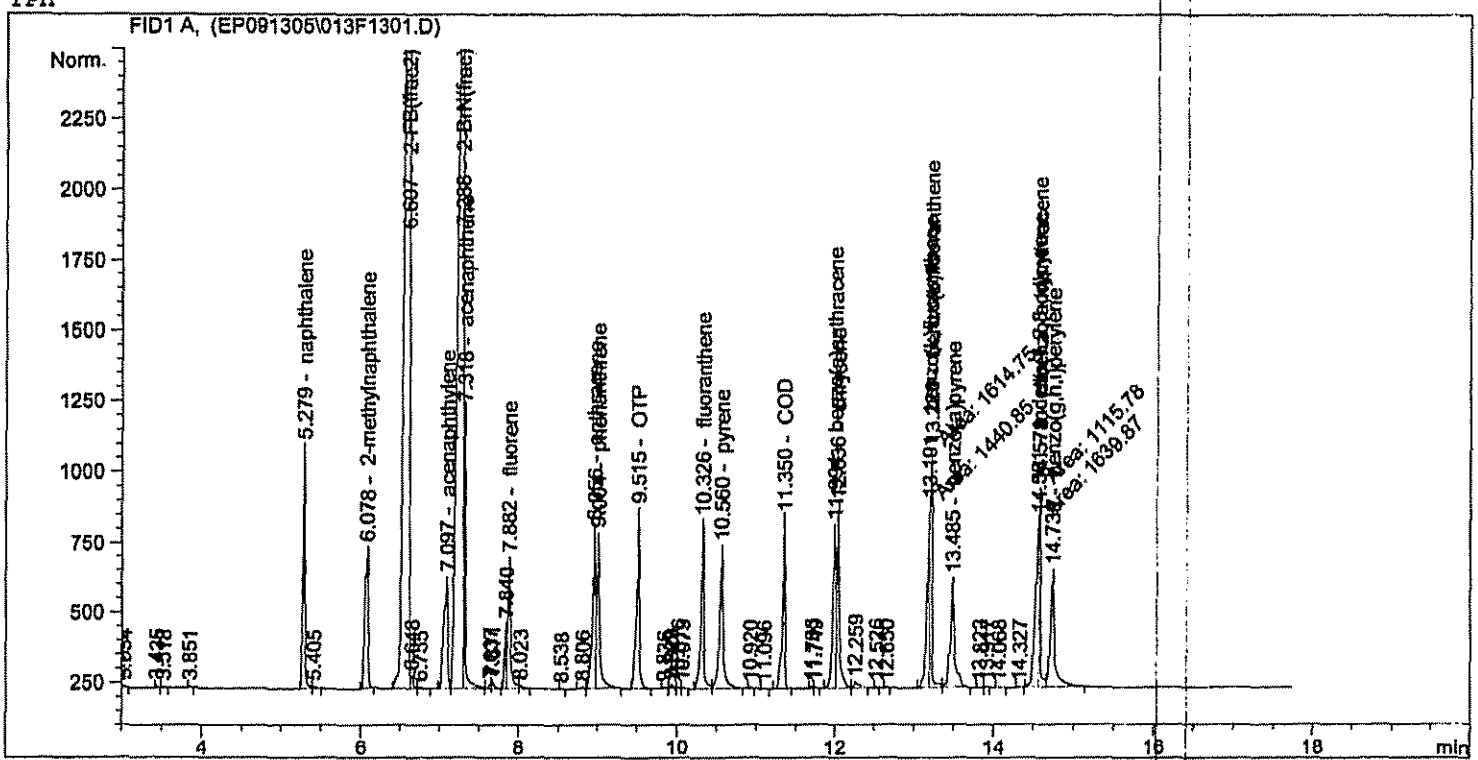
*** End of Report ***

Data File C:\HPCHEM\1\DATA\EP091305\013F1301.D Sample Name: R 20 ICAL

Injection Date	: 9/13/2005 9:49:10 PM	Seq. Line :	13
Sample Name	: R 20 ICAL	Location :	Vial 13
Acq. Operator	: DCS	Inj :	1
Acq. Instrument	: GC6	Inj Volume :	10 µl
Acq. Method	: C:\HPCHEM\1\METHODS\PROEPH.M		
Last changed	: 5/12/2005 1:48:41 PM by CLP		
Analysis Method	: C:\HPCHEM\1\METHODS\EPH-R_F.M		
Last changed	: 9/14/2005 11:04:53 AM by DCS (modified after loading)		

TPH



Area Percent Report

Sorted By : Signal
Calib. Data Modified : 9/14/2005 11:04:48 AM
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.279	PV	0.0270	1562.51965	0.00203	naphthalene
2	6.078	PB	0.0436	1454.63660	0.00189	2-methylnaphthalene
3	6.607	PV	0.0483	1.82611e4	0.02369	2-FB(frac2)
4	7.097	PV	0.0489	1497.82129	0.00194	acenaphthylene
5	7.288	VV	0.0550	1.41086e4	0.01831	2-BrN(frac)
6	7.318	VB	0.0202	1387.59131	0.00180	acenaphthene
7	7.882	VV	0.0315	1061.77747	0.00138	fluorene
8	8.956	VV	0.0367	1532.66602	0.00199	anthracene
9	9.004	VB	0.0339	1378.28589	0.00179	phenanthrene
10	9.515	BB	0.0346	1632.65271	0.00212	OTP
11	10.326	BV	0.0355	1472.57654	0.00191	fluoranthene
12	10.560	VB	0.0422	1585.11304	0.00206	pyrene

Data File C:\HPCHEM\1\DATA\EP091305\013F1301.D Sample Name: R 20 ICAL

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.350	BB	0.0330	1417.24390	0.00184	COD
14	11.994	BV	0.0360	1509.26111	0.00196	benzo(a)anthracene
15	12.036	VV	0.0309	1458.71545	0.00189	chrysene
16	13.191	MF	0.0365	1440.85046	0.00187	benzo(k)fluoranthene
17	13.220	FM	0.0317	1614.75208	0.00210	benzo(b)fluoranthene
18	13.485	VB	0.0498	1429.85938	0.00186	benzo(a)pyrene
19	14.561	MF	0.0453	1639.87048	0.00213	indeno(1,2,3-cd)pyrene
20	14.578	FM	0.0260	1115.77771	0.00145	dibenzo(a,h)anthracene
21	14.738	VB	0.0523	1567.91003	0.00203	benzo(g,h,i)perylene
Totals :				6.01297e4	7.802e-2	

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.565	BV S	7.49e-3	2930.75952	0.00380	?
2	0.612	VV S	0.0218	1.58552e5	0.20572	?
3	0.675	VV S	0.0309	6.11819e5	0.79385	?
4	1.761	VV S	0.9261	7.52858e7	97.68458	?
5	1.811	VV S	0.0175	8.03363e5	1.04238	?
6	1.847	VV S	0.0227	7289.45850	0.00946	?
7	1.897	VV S	0.0386	1.23663e4	0.01605	?
8	1.931	VV S	0.0350	9462.42480	0.01228	?
9	1.972	VV S	0.0271	7671.20361	0.00995	?
10	2.022	VV S	0.0514	1.19749e4	0.01554	?
11	2.065	VV S	0.0441	9203.41699	0.01194	?
12	2.113	VV S	0.0244	5603.30811	0.00727	?
13	2.144	VV S	0.0270	6039.05029	0.00784	?
14	2.179	VV S	0.0343	6885.71484	0.00893	?
15	2.244	VV S	0.0602	1.24152e4	0.01611	?
16	2.303	VV S	0.0318	6321.81396	0.00820	?
17	2.346	VV S	0.0342	6680.25928	0.00867	?
18	2.386	VV S	0.0325	5550.21240	0.00720	?
19	2.432	VV S	0.0499	7495.26221	0.00973	?
20	2.489	VV S	0.0399	7353.69336	0.00954	?
21	2.534	VV S	0.0437	6892.70654	0.00894	?
22	2.601	VV S	0.0446	7591.07520	0.00985	?
23	2.648	VV S	0.0301	3706.09790	0.00481	?
24	2.684	VV S	0.0297	2714.92383	0.00352	?
25	2.727	VB S	0.0518	3544.95410	0.00460	?
26	2.959	PV	0.0239	2.69136	3.492e-6	?
27	3.034	VB	0.0178	7.21809	9.366e-6	?
28	3.435	PB	0.0211	10.06810	1.306e-5	?
29	3.518	BB	0.0254	6.77563	8.791e-6	?
30	3.851	PB	0.0216	7.14400	9.269e-6	?
31	5.405	VB	0.0426	21.21064	2.752e-5	?
32	6.648	VV	0.0301	96.12778	0.00012	?
33	6.755	VB	0.0672	24.40050	3.166e-5	?
34	7.637	BV	0.0377	39.87048	5.173e-5	?
35	7.671	VB	0.0328	54.49953	7.071e-5	?
36	7.840	BV	0.0290	436.35309	0.00057	?
37	8.023	VB	0.0436	28.29251	3.671e-5	?
38	8.538	BP	0.0346	2.59504	3.367e-6	?
39	8.806	BP	0.0318	13.89590	1.803e-5	?
40	9.836	BV	0.0299	8.10418	1.052e-5	?
41	9.929	VV	0.0337	29.63826	3.846e-5	?
42	10.016	VV	0.0363	11.90903	1.545e-5	?
43	10.073	VB	0.0315	5.83833	7.575e-6	?
44	10.920	BP	0.0273	6.30633	8.183e-6	?
45	11.096	PP	0.0339	2.59013	3.361e-6	?
46	11.703	BV	0.0261	11.20493	1.454e-5	?
47	11.749	VP	0.0261	5.84315	7.582e-6	?
48	12.259	VB	0.0608	90.32774	0.00012	?
49	12.526	BP	0.0234	5.09092	6.606e-6	?

)ata File C:\HPCHEM\1\DATA\EP091305\013F1301.D Sample Name: R 20 ICAL

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
50	12.650	VP	0.0235	3.37979	4.385e-6	?
51	13.822	PB	0.0342	3.08843	4.007e-6	?
52	13.917	BV	0.0258	6.37402	8.270e-6	?
53	14.068	BP	0.0241	1.96441	2.549e-6	?
54	14.327	BP	0.0292	3.05672	3.966e-6	?

Uncalib. totals : 7.70101e7 99.9220

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

Data File C:\HPCHEM\1\DATA\EP091305\014F1401.D Sample Name: K 40 ICAL

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==================================================================
Injection Date  : 9/13/2005 10:16:55 PM          Seq. Line :  14
Sample Name     : K 40 ICAL                       Location : Vial 14
Acq. Operator   : DCS                                 Inj :   1
Acq. Instrument : GC6                           Inj Volume : 10 µl
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed    : 9/14/2005 10:35:55 AM by DCS
                  (modified after loading)
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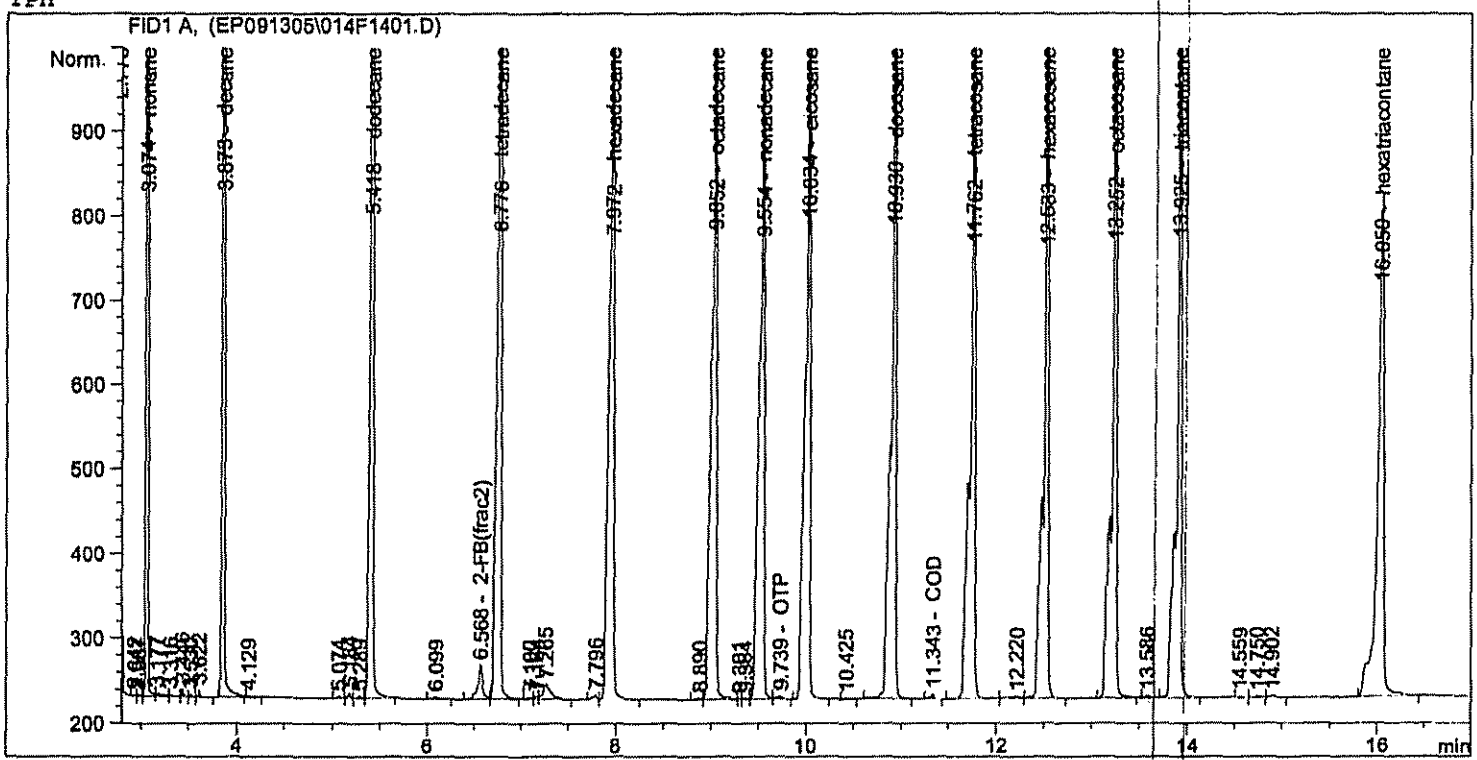
TPH



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Area Percent Report
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```
Sorted By              :      Signal
Calib. Data Modified   :      9/14/2005 10:34:18 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	3.074	VV	0.0184	2770.20215	0.00336	nonane
2	3.873	VB	0.0220	2751.26465	0.00334	decane
3	5.418	VB	0.0285	2756.64380	0.00335	dodecane
4	6.568	BV	0.0485	142.04463	0.00017	2-FB(frac2)
5	6.776	VV	0.0395	2758.58691	0.00335	tetradecane
6	7.485		0.0000	0.00000	0.00000	2-BrN(frac)
7	7.972	VB	0.0454	2758.13306	0.00335	hexadecane
8	9.052	VV	0.0416	2801.58032	0.00340	octadecane
9	9.554	VV	0.0400	2784.38916	0.00338	nonadecane
10	9.739	VB	0.0530	13.30716	1.615e-5	OTP
11	10.034	BB	0.0417	2769.31079	0.00336	eicosane
12	10.930	BB	0.0486	2783.30859	0.00338	docosane

Data File C:\HPCHEM\1\DATA\EP091305\014F1401.D Sample Name: K 40 ICAL

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.343	PP	0.0374	12.04538	1.462e-5	COD
14	11.762	BP	0.0464	2761.28296	0.00335	tetracosane
15	12.533	VB	0.0455	2772.41382	0.00337	hexacosane
16	13.252	BB	0.0428	2768.29150	0.00336	octacosane
17	13.925	BB	0.0425	2755.10449	0.00334	triacontane
18	16.050	BB	0.0639	2594.76294	0.00315	hexatriacontane

Totals : 3.87527e4 4.704e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.553	PV	0.0245	166.23245	0.00020	?
2	0.582	VV	0.0133	532.95380	0.00065	?
3	0.672	VV S	0.0215	3.73316e5	0.45317	?
4	1.729	VV S	0.9919	8.09913e7	98.31613	?
5	1.867	VV S	0.0175	8.34161e5	1.01260	?
6	1.906	VV S	0.0477	1.27029e4	0.01542	?
7	1.956	VV S	0.0155	3883.11450	0.00471	?
8	1.990	VV S	0.0410	1.09855e4	0.01334	?
9	2.034	VV S	0.0353	1.01140e4	0.01228	?
10	2.073	VV S	0.0420	1.05562e4	0.01281	?
11	2.140	VV S	0.0505	1.10791e4	0.01345	?
12	2.201	VV S	0.0402	9668.48535	0.01174	?
13	2.241	VV S	0.0402	8568.67285	0.01040	?
14	2.295	VV S	0.0457	9773.16699	0.01186	?
15	2.366	VV S	0.0473	8957.23926	0.01087	?
16	2.420	VV S	0.0687	1.24060e4	0.01506	?
17	2.506	VV S	0.0670	1.03194e4	0.01253	?
18	2.569	VV S	0.0392	6643.48193	0.00806	?
19	2.615	VV S	0.0473	8226.65820	0.00999	?
20	2.691	VV S	0.0394	2972.47461	0.00361	?
21	2.737	VV S	0.0344	2217.32373	0.00269	?
22	2.778	VBAS	0.0196	852.11340	0.00103	?
23	2.942	VV	0.0289	1.89276	2.298e-6	?
24	2.987	VP	0.0239	3.23653	3.929e-6	?
25	3.177	VV	0.0549	15.17338	1.842e-5	?
26	3.316	VV	0.0268	4.42766	5.375e-6	?
27	3.446	VV	0.0180	9.62438	1.168e-5	?
28	3.530	VV	0.0275	5.88296	7.141e-6	?
29	3.622	VP	0.0204	10.28832	1.249e-5	?
30	4.129	BB	0.0714	11.21073	1.361e-5	?
31	5.074	PV	0.0278	3.71752	4.513e-6	?
32	5.184	VP	0.0276	11.44812	1.390e-5	?
33	5.289	VV	0.0376	6.88476	8.357e-6	?
34	6.099	PB	0.0613	9.94378	1.207e-5	?
35	7.100	VV	0.0527	10.18524	1.236e-5	?
36	7.164	VV	0.0342	8.75871	1.063e-5	?
37	7.265	VB	0.0784	100.17563	0.00012	?
38	7.796	VV	0.0414	14.07088	1.708e-5	?
39	8.890	VV	0.0436	5.67787	6.892e-6	?
40	9.301	VV	0.0326	2.57366	3.124e-6	?
41	9.364	VV	0.0507	4.79672	5.823e-6	?
42	10.425	PB	0.0550	5.82010	7.065e-6	?
43	12.220	BV	0.1112	19.03223	2.310e-5	?
44	13.586	BB	0.0472	8.95927	1.088e-5	?
45	14.559	BP	0.0364	3.76266	4.568e-6	?
46	14.750	BV	0.0623	6.07752	7.378e-6	?
47	14.902	VB	0.0613	8.22431	9.984e-6	?

Uncalib. totals : 8.23397e7 99.9530

Results obtained with enhanced integrator!
2 Warnings or Errors :

GC6 9/14/2005 10:36:02 AM DCS

ata File C:\HPCHEM\1\DATA\EP091305\014F1401.D Sample Name: K 40 ICAL

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

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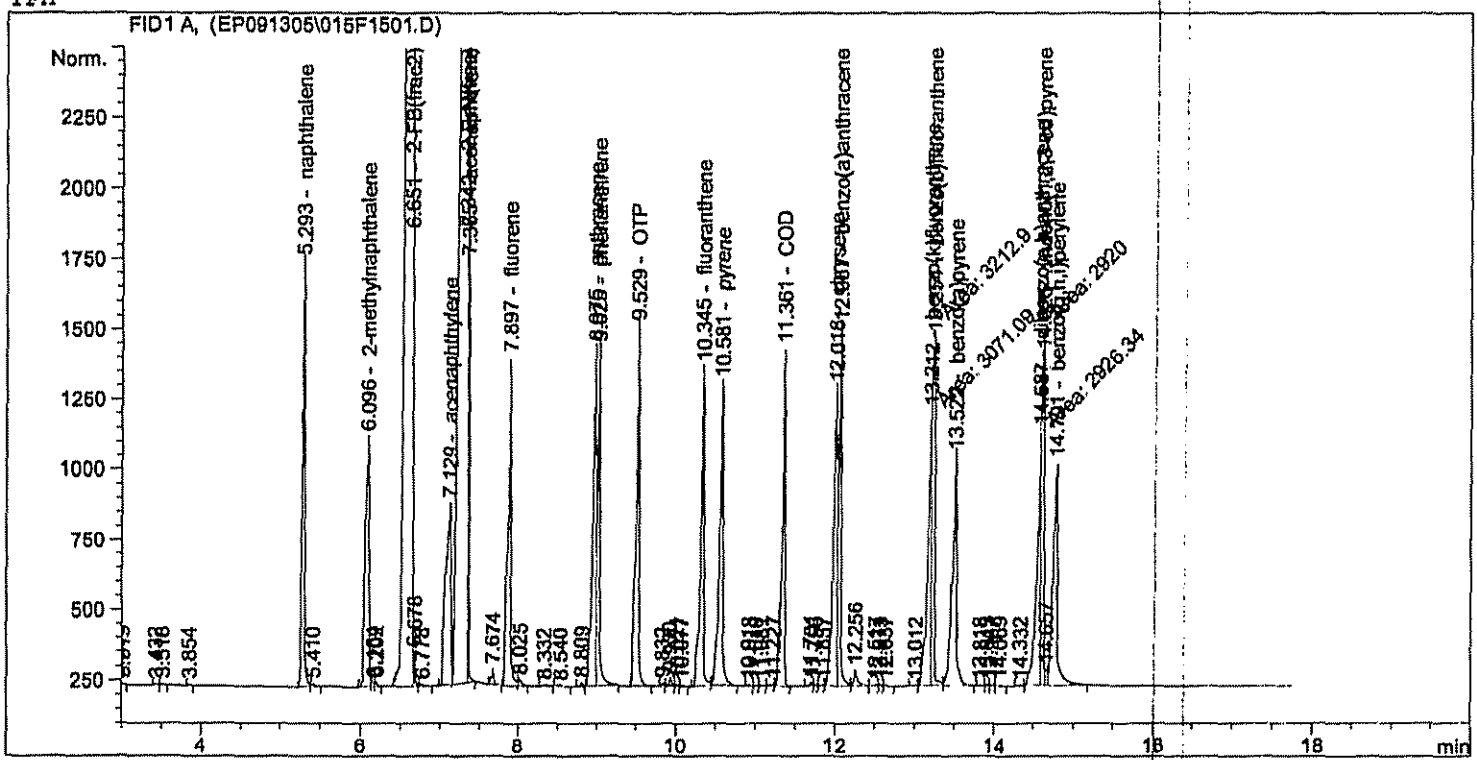
*** End of Report ***

Data File C:\HPCHEM\1\DATA\EP091305\015F1501.D Sample Name: R 40 ICAL

Injection Date	: 9/13/2005 10:43:24 PM	Seq. Line	: 15
Sample Name	: R 40 ICAL	Location	: Vial 15
Acq. Operator	: DCS	Inj	: 1
Acq. Instrument	: GC6	Inj Volume	: 10 µl
Acq. Method	: C:\HPCHEM\1\METHODS\PROEPH.M		
Last changed	: 5/12/2005 1:48:41 PM by CLP		
Analysis Method	: C:\HPCHEM\1\METHODS\EPH-R_F.M		
Last changed	: 9/14/2005 11:05:43 AM by DCS (modified after loading)		

TPH



Area Percent Report

Sorted By	:	Signal
Calib. Data Modified	:	9/14/2005 11:06:10 AM
Multiplier	:	1.0000
Dilution	:	1.0000

Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.293	BV	0.0327	3218.33984	0.00430	naphthalene
2	6.096	PV	0.0448	3036.23071	0.00406	2-methylnaphthalene
3	6.651	PV	0.0615	3.81709e4	0.05104	2-FB(frac2)
4	7.129	PV	0.0619	3045.70337	0.00407	acenaphthylene
5	7.342	VV	0.0664	2.99060e4	0.03999	2-BrN(frac)
6	7.365	VB	0.0123	1965.57556	0.00263	acenaphthene
7	7.897	VV	0.0344	3059.15283	0.00409	fluorene
8	8.975	VV	0.0379	3516.91821	0.00470	anthracene
9	9.025	VB	0.0282	2502.35107	0.00335	phenanthrene
10	9.529	PB	0.0345	3362.22412	0.00450	OTP
11	10.345	PV	0.0353	3051.58252	0.00408	fluoranthene
12	10.581	VB	0.0406	3206.38745	0.00429	pyrene

Data File C:\HPCHEM\1\DATA\EP091305\015F1501.D Sample Name: R 40 ICAL

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.361	VB	0.0339	2885.50635	0.00386	COD
14	12.018	VV	0.0492	3671.32007	0.00491	chrysene
15	12.067	VV	0.0268	2452.76855	0.00328	benzo(a)anthracene
16	13.212	MF	0.0522	3071.09106	0.00411	benzo(k)fluoranthene
17	13.254	FM	0.0413	3212.90332	0.00430	benzo(b)fluoranthene
18	13.522	VB	0.0461	2971.76123	0.00397	benzo(a)pyrene
19	14.587	MF	0.0537	2926.33838	0.00391	dibenzo(a,h)anthracene
20	14.625	FM	0.0376	2919.99927	0.00390	indeno(1,2,3-cd)pyrene
21	14.791	VB	0.0485	3098.57959	0.00414	benzo(g,h,i)perylene

Totals : 1.25252e5 0.1675

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.530	PV	6.33e-3	5.05124	6.754e-6	?
2	0.694	VV S	0.0447	1.82829e6	2.44467	?
3	0.908	VV S	0.1852	1.17735e7	15.74284	?
4	1.670	VV S	0.7471	6.01430e7	80.41941	?
5	1.771	VV S	0.0173	7.65295e5	1.02330	?
6	1.836	VV S	0.0718	2.36431e4	0.03161	?
7	1.882	VV S	0.0260	6458.63672	0.00864	?
8	1.917	VV S	0.0387	9025.77051	0.01207	?
9	1.968	VV S	0.0687	1.49420e4	0.01998	?
10	2.056	VV S	0.0418	9753.06738	0.01304	?
11	2.105	VV S	0.0434	9561.51465	0.01279	?
12	2.154	VV S	0.0344	7577.06836	0.01013	?
13	2.199	VV S	0.0329	6760.24219	0.00904	?
14	2.237	VV S	0.0377	7082.49072	0.00947	?
15	2.298	VV S	0.0883	1.37297e4	0.01836	?
16	2.380	VV S	0.0368	6503.58203	0.00870	?
17	2.438	VV S	0.0402	6234.69873	0.00834	?
18	2.487	VV S	0.0444	6936.98535	0.00928	?
19	2.533	VV S	0.0444	6288.90479	0.00841	?
20	2.597	VV S	0.0383	5559.17773	0.00743	?
21	2.629	VV S	0.0294	3533.76172	0.00473	?
22	2.666	VV S	0.0513	4391.91113	0.00587	?
23	2.754	VB S	0.0402	2194.34692	0.00293	?
24	2.951	PV	0.0274	2.98904	3.997e-6	?
25	3.019	VB	0.0208	7.66393	1.025e-5	?
26	3.432	PB	0.0263	5.35384	7.159e-6	?
27	3.518	BB	0.0306	7.02292	9.391e-6	?
28	3.854	PB	0.0286	7.84118	1.048e-5	?
29	5.410	VB	0.0443	31.20410	4.172e-5	?
30	6.164	VV	0.0334	26.86988	3.593e-5	?
31	6.202	VB	0.0330	26.47794	3.540e-5	?
32	6.678	VV	0.0158	132.50288	0.00018	?
33	6.778	VB	0.0623	27.65050	3.697e-5	?
34	7.674	BP	0.0328	127.06141	0.00017	?
35	8.025	VB	0.0377	55.16701	7.377e-5	?
36	8.332	PB	0.0504	11.49098	1.537e-5	?
37	8.540	BP	0.0486	10.72014	1.433e-5	?
38	8.809	BP	0.0341	32.81258	4.387e-5	?
39	9.832	BV	0.0304	19.24318	2.573e-5	?
40	9.930	VV	0.0338	71.21533	9.522e-5	?
41	10.021	VV	0.0396	15.43179	2.063e-5	?
42	10.077	VP	0.0283	9.32078	1.246e-5	?
43	10.918	BP	0.0250	7.59515	1.016e-5	?
44	11.010	BV	0.0350	3.17182	4.241e-6	?
45	11.081	VV	0.0449	10.55794	1.412e-5	?
46	11.227	VV	0.0411	18.17547	2.430e-5	?
47	11.701	BV	0.0343	27.81410	3.719e-5	?
48	11.755	VV	0.0323	10.24028	1.369e-5	?
49	11.857	VV	0.0501	16.20043	2.166e-5	?

ata File C:\HPCHEM\1\DATA\EP091305\015F1501.D Sample Name: R 40 ICAL

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
50	12.256	VB	0.0481	196.53474	0.00026	?
51	12.517	BV	0.0401	14.17933	1.896e-5	?
52	12.573	VV	0.0331	4.43440	5.929e-6	?
53	12.637	VP	0.0328	9.66215	1.292e-5	?
54	13.012	BV	0.0578	11.37710	1.521e-5	?
55	13.818	PB	0.0445	6.17779	8.261e-6	?
56	13.913	BV	0.0280	7.18398	9.606e-6	?
57	13.967	VP	0.0265	2.71332	3.628e-6	?
58	14.069	VP	0.0283	5.28193	7.063e-6	?
59	14.332	BV	0.0405	11.96036	1.599e-5	?
60	14.657	VV	0.0296	118.11123	0.00016	?

Uncalib. totals : 7.46614e7 99.8325

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

==========

*** End of Report ***

EPH CVS Raw Data

Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 09/13/05

Calibration Ranges and Limits

Range	MDL (2/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_9-C_{18} Aliphatics	3.84	12.2	100	10
C_{19}-C_{36} Aliphatics	0.57	1.8	100	10
C_{11}-C_{22} Aromatics	4.54	14.4	100	10

Calibration Concentration Levels

Range	Levels (µg/mL)	%RSD or CCC	Method of Quantitation
C_9-C_{18} Aliphatics	6	3.80	Calibration Factor
	30		
	60		
	120		
	240		
C_{19}-C_{36} Aliphatics	8	3.8	Calibration Factor
	40		
	80		
	160		
	320		
C_{11}-C_{22} Aromatics	17	7.9	Calibration Factor
	85		
	170		
	340		
	680		

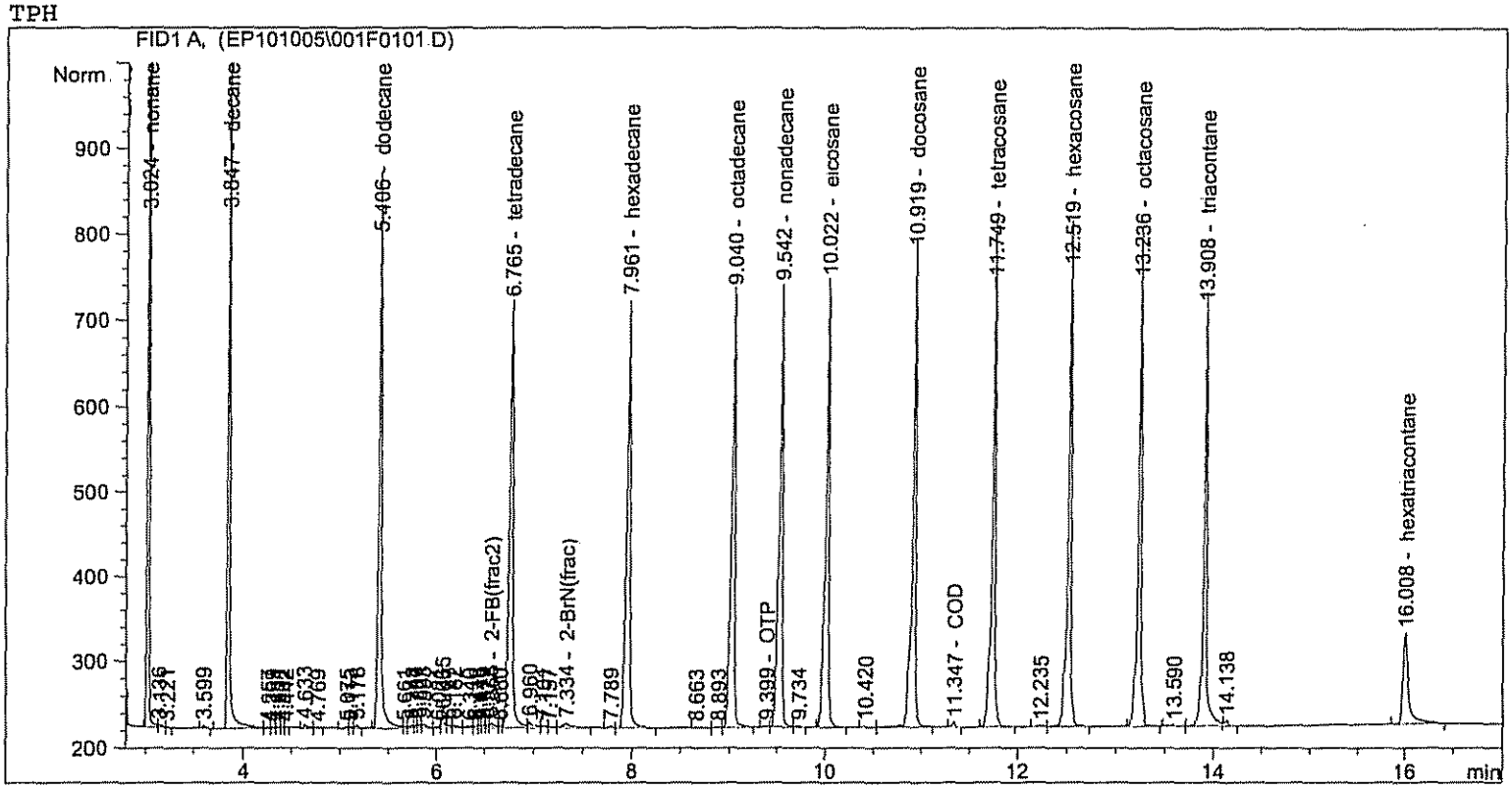
Calibration Check Date: 10/10/05

Calibration Check

Range	Levels (µg/mL)	RPD
C_9-C_{18} Aliphatics	120	-4.8
C_{19}-C_{36} Aliphatics	160	-17.5
C_{11}-C_{22} Aromatics	340	-10.6

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

```
==================================================================
Injection Date   : 10/10/2005 9:45:43 AM          Seq. Line :   1
Sample Name      : K 20 ccal                       Location : Vial 1
Acq. Operator    : DCS                                 Inj :   1
Acq. Instrument  : GC6                            Inj Volume : 10 µl
Acq. Method      : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed     : 5/12/2005 1:48:41 PM by CLP
Analysis Method  : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed     : 10/6/2005 10:15:42 AM by DCS
TPH
```




```
==================================================================
                      Area Percent Report
==================================================================

Sorted By              :      Signal
Calib. Data Modified   :      9/20/2005 8:28:13 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	3.024	VV	0.0167	1263.24939	0.00174	nonane
2	3.847	BB	0.0215	1258.80298	0.00174	decane
3	5.406	VV	0.0292	1284.41797	0.00177	dodecane
4	6.565	VV	0.0521	21.05920	2.905e-5	2-FB(frac2)
5	6.765	VV	0.0373	1292.15637	0.00178	tetradecane
6	7.334	VB	0.0881	41.71113	5.754e-5	2-BrN(frac)
7	7.961	VB	0.0357	1271.10693	0.00175	hexadecane
8	9.040	VB	0.0353	1286.67920	0.00177	octadecane
9	9.399	PV	0.0311	2.18245	3.011e-6	OTP
10	9.542	VV	0.0349	1281.32898	0.00177	nonadecane
11	10.022	VV	0.0354	1273.30139	0.00176	eicosane
12	10.919	VB	0.0370	1287.59851	0.00178	docosane
13	11.347	BP	0.0367	12.40007	1.711e-5	COD

a File C:\HPCHEM\1\DATA\EP101005\001F0101.D Sample Name: K 20 ccal

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
14	11.749	BB	0.0364	1267.92871	0.00175	tetracosane
15	12.519	VB	0.0356	1272.14600	0.00175	hexacosane
16	13.236	BB	0.0378	1239.58984	0.00171	octacosane
17	13.908	VV	0.0379	1175.16687	0.00162	triacontane
18	16.008	BB	0.0618	433.95453	0.00060	hexatriacontane
Totals :				1.69648e4	2.340e-2	

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.321	VV	0.1083	10.52318	1.452e-5	?
2	0.555	BV	0.0223	151.36946	0.00021	?
3	0.652	VV S	0.0102	6.57268e4	0.09067	?
4	1.752	VP S	0.9276	7.22623e7	99.68685	?
5	1.838	VV S	0.0563	1.88382e4	0.02599	?
6	1.886	VV S	0.0368	1.19540e4	0.01649	?
7	1.940	VV S	0.0469	1.21479e4	0.01676	?
8	1.998	VV S	0.0425	1.07523e4	0.01483	?
9	2.044	VV S	0.0318	7730.46484	0.01066	?
10	2.083	VV S	0.0333	7439.64551	0.01026	?
11	2.129	VV S	0.0305	7508.78418	0.01036	?
12	2.173	VV S	0.0381	7796.94824	0.01076	?
13	2.223	VV S	0.0341	7260.74414	0.01002	?
14	2.264	VV S	0.0412	7339.41650	0.01012	?
15	2.315	VV S	0.0278	5138.42969	0.00709	?
16	2.362	VV S	0.0423	7426.95459	0.01025	?
17	2.425	VV S	0.0411	6769.78662	0.00934	?
18	2.459	VV S	0.0338	4517.80371	0.00623	?
19	2.511	VV S	0.0652	7965.22314	0.01099	?
20	2.577	VV S	0.0266	4411.85693	0.00609	?
21	2.615	VV S	0.0277	3570.55542	0.00493	?
22	2.649	VV S	0.0282	2453.27197	0.00338	?
23	2.693	VV S	0.0319	1800.79529	0.00248	?
24	2.748	VBAS	0.0331	987.07697	0.00136	?
25	3.136	VV	0.0461	8.61693	1.189e-5	?
26	3.221	VV	0.0280	2.82597	3.898e-6	?
27	3.599	VP	0.0196	4.02835	5.557e-6	?
28	4.257	BV	0.0515	5.41868	7.475e-6	?
29	4.299	VV	0.0383	4.10970	5.669e-6	?
30	4.351	VV	0.0321	3.60507	4.973e-6	?
31	4.402	VV	0.0312	2.79637	3.858e-6	?
32	4.442	VV	0.0321	2.73786	3.777e-6	?
33	4.633	VV	0.0391	15.01342	2.071e-5	?
34	4.769	VV	0.0584	5.68387	7.841e-6	?
35	5.075	VV	0.0432	7.13840	9.848e-6	?
36	5.113	VV	0.0327	4.56245	6.294e-6	?
37	5.178	VV	0.0348	9.79677	1.351e-5	?
38	5.661	VV	0.0309	5.62093	7.754e-6	?
39	5.748	VV	0.0424	9.83573	1.357e-5	?
40	5.787	VV	0.0222	4.92771	6.798e-6	?
41	5.821	VV	0.0296	8.99142	1.240e-5	?
42	5.868	VV	0.0529	15.45346	2.132e-5	?
43	6.021	VV	0.0404	8.19465	1.130e-5	?
44	6.065	VV	0.0263	28.81661	3.975e-5	?
45	6.127	VV	0.0407	9.89511	1.365e-5	?
46	6.182	VV	0.0481	12.56181	1.733e-5	?
47	6.340	VV	0.0699	10.62686	1.466e-5	?
48	6.413	VV	0.0343	8.48384	1.170e-5	?
49	6.446	VV	0.0239	6.41251	8.846e-6	?
50	6.479	VV	0.0282	8.06691	1.113e-5	?
51	6.522	VV	0.0249	6.64620	9.169e-6	?
52	6.660	VV	0.0367	5.67519	7.829e-6	?
53	6.960	VV	0.0477	28.39846	3.918e-5	?

a File C:\HPCHEM\1\DATA\EP101005\001F0101.D Sample Name: K 20 ccal

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
54	7.101	VV	0.0454	10.37635	1.431e-5	?
55	7.157	VV	0.0488	7.62718	1.052e-5	?
56	7.789	VP	0.0399	7.71088	1.064e-5	?
57	8.663	BP	0.0469	4.07796	5.626e-6	?
58	8.893	VP	0.0410	2.92463	4.035e-6	?
59	9.734	VP	0.0486	6.13260	8.460e-6	?
60	10.420	BV	0.0592	6.60518	9.112e-6	?
61	12.235	BV	0.0575	5.21115	7.189e-6	?
62	13.590	BV	0.0658	7.53345	1.039e-5	?
63	14.138	VB	0.0506	21.72029	2.996e-5	?

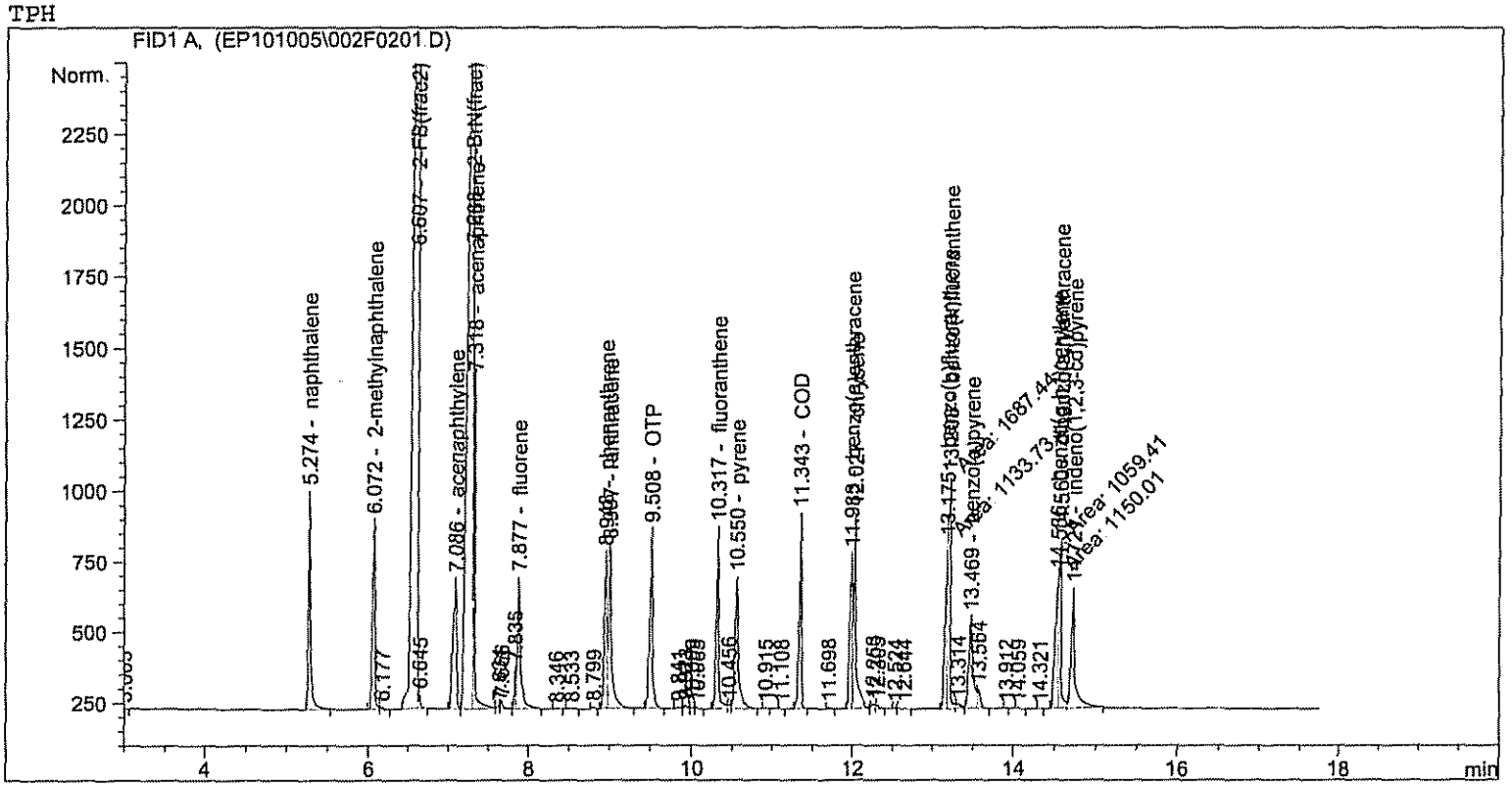
Uncalib. totals : 7.24723e7 99.9766

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

==========
*** End of Report ***

```
==================================================================
Injection Date  : 10/10/2005 10:12:36 AM        Seq. Line :   2
Sample Name     : R 20 ccal                      Location : Vial 2
Acq. Operator   : DCS                                Inj :   1
Acq. Instrument : GC6                           Inj Volume : 10 µl
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPH-R_F.M
Last changed    : 9/23/2005 10:16:24 AM by DCS
TPH
```




```
==================================================================
                      Area Percent Report
==================================================================

Sorted By              :      Signal
Calib. Data Modified   :      9/23/2005 9:33:55 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.274	BB	0.0296	1501.01758	0.00220	naphthalene
2	6.072	BV	0.0284	1409.55835	0.00207	2-methylnaphthalene
3	6.607	PV	0.0456	1.74419e4	0.02557	2-FB(frac2)
4	7.086	PV	0.0422	1438.53760	0.00211	acenaphthylene
5	7.288	VV	0.0495	1.34012e4	0.01965	2-BrN(frac)
6	7.318	VB	0.0172	1424.43677	0.00209	acenaphthene
7	7.877	VB	0.0371	1242.67651	0.00182	fluorene
8	8.948	PV	0.0356	1222.65784	0.00179	phenanthrene
9	8.997	VB	0.0373	1556.58020	0.00228	anthracene
10	9.508	VB	0.0346	1562.88403	0.00229	OTP
11	10.317	BV	0.0333	1400.60730	0.00205	fluoranthene
12	10.550	VP	0.0457	1506.22449	0.00221	pyrene
13	11.343	BB	0.0288	1357.50000	0.00199	COD

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
14	11.983	BV	0.0336	1263.78711	0.00185	benzo(a)anthracene
15	12.027	VV	0.0298	1544.85083	0.00226	chrysene
16	13.175	MF	0.0317	1133.73401	0.00166	benzo(b)fluoranthene
17	13.208	FM	0.0343	1687.44214	0.00247	benzo(k)fluoranthene
18	13.469	VV	0.0487	1167.31726	0.00171	benzo(a)pyrene
19	14.536	MF	0.0403	1150.00623	0.00169	benzo(g,h,i)perylene
20	14.560	FM	0.0292	1059.40588	0.00155	dibenzo(a,h)anthracene
21	14.721	VB	0.0444	1444.11365	0.00212	indeno(1,2,3-cd)pyrene

Totals : 5.69165e4 8.345e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.562	PV S	6.59e-3	7043.22021	0.01033	?
2	0.690	VV S	0.0476	1.36762e6	2.00513	?
3	1.657	VV S	0.8391	6.58859e7	96.59853	?
4	1.713	VV S	0.0158	7.32877e5	1.07451	?
5	1.787	VV S	0.0473	1.53769e4	0.02254	?
6	1.839	VV S	0.0413	1.11815e4	0.01639	?
7	1.894	VV S	0.0550	1.38112e4	0.02025	?
8	1.945	VV S	0.0323	7696.57422	0.01128	?
9	1.984	VV S	0.0339	8605.07227	0.01262	?
10	2.018	VV S	0.0310	6892.50830	0.01011	?
11	2.062	VV S	0.0417	9530.24707	0.01397	?
12	2.113	VV S	0.0269	5973.69678	0.00876	?
13	2.150	VV S	0.0352	6873.41113	0.01008	?
14	2.188	VV S	0.0331	6787.05176	0.00995	?
15	2.235	VV S	0.0387	7504.24805	0.01100	?
16	2.285	VV S	0.0338	6642.93604	0.00974	?
17	2.321	VV S	0.0262	4166.72852	0.00611	?
18	2.357	VV S	0.0418	7061.48193	0.01035	?
19	2.405	VV S	0.0341	5568.14063	0.00816	?
20	2.452	VV S	0.0344	5304.82471	0.00778	?
21	2.497	VV S	0.0300	4890.05518	0.00717	?
22	2.535	VV S	0.0350	5189.50977	0.00761	?
23	2.599	VV S	0.0575	6999.76855	0.01026	?
24	2.638	VV S	0.0613	6729.20703	0.00987	?
25	2.749	VV S	0.0348	1438.76672	0.00211	?
26	2.776	VB S	0.0174	461.64566	0.00068	?
27	3.003	BB	0.0298	2.47023	3.622e-6	?
28	6.177	VB	0.0425	26.14005	3.833e-5	?
29	6.645	VB	0.0250	85.57008	0.00013	?
30	7.634	BV	0.0283	22.30447	3.270e-5	?
31	7.666	VV	0.0361	64.04374	9.390e-5	?
32	7.835	VV	0.0221	214.69965	0.00031	?
33	8.346	PB	0.0400	3.98470	5.842e-6	?
34	8.533	PB	0.0425	4.41965	6.480e-6	?
35	8.799	BB	0.0272	14.01283	2.054e-5	?
36	9.841	PV	0.0418	11.75020	1.723e-5	?
37	9.923	VV	0.0345	27.86624	4.086e-5	?
38	10.009	VV	0.0356	7.96574	1.168e-5	?
39	10.065	VB	0.0372	7.56225	1.109e-5	?
40	10.456	VV	0.0304	28.55432	4.186e-5	?
41	10.915	BP	0.0267	3.96805	5.818e-6	?
42	11.108	PB	0.0304	2.92271	4.285e-6	?
43	11.698	PP	0.0318	14.67938	2.152e-5	?
44	12.253	VV	0.0429	50.53526	7.409e-5	?
45	12.305	VB	0.0360	31.69200	4.647e-5	?
46	12.524	PV	0.0244	4.22155	6.189e-6	?
47	12.644	VB	0.0398	7.11340	1.043e-5	?
48	13.314	VV	0.0587	67.68205	9.923e-5	?
49	13.564	VB	0.0330	145.84785	0.00021	?
50	13.912	BV	0.0253	4.01242	5.883e-6	?

ta File C:\HPCHEM\1\DATA\EP101005\002F0201.D Sample Name: R 20 ccal

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
51	14.059	BP	0.0265	2.31086	3.388e-6	?
52	14.321	BB	0.0284	2.68288	3.933e-6	?

Uncalib. totals : 6.81490e7 99.9166

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

==========
*** End of Report ***

Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 09/13/05

Calibration Ranges and Limits

Range	MDL (2/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_9-C_{18} Aliphatics	3.84	12.2	100	10
C_{19}-C_{36} Aliphatics	0.57	1.8	100	10
C_{11}-C_{22} Aromatics	4.54	14.4	100	10

Calibration Concentration Levels

Range	Levels (µg/mL)	%RSD or CCC	Method of Quantitation
C_9-C_{18} Aliphatics	6	3.80	Calibration Factor
	30		
	60		
	120		
	240		
C_{19}-C_{36} Aliphatics	8	3.8	Calibration Factor
	40		
	80		
	160		
	320		
C_{11}-C_{22} Aromatics	17	7.9	Calibration Factor
	85		
	170		
	340		
	680		

Calibration Check Date: 10/07/05

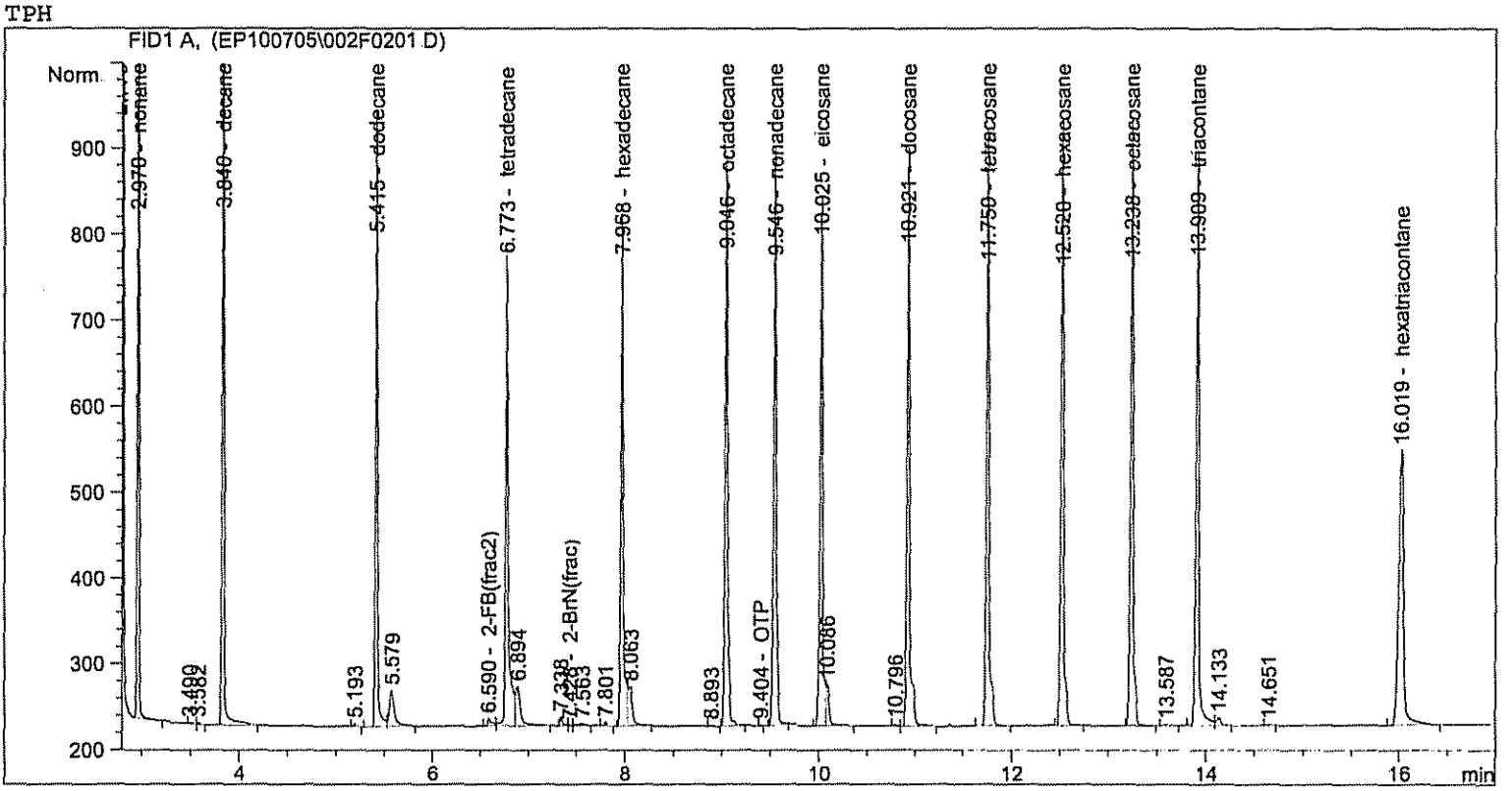
Calibration Check

Range	Levels (µg/mL)	RPD
C_9-C_{18} Aliphatics	120	-18.2
C_{19}-C_{36} Aliphatics	160	-10.2
C_{11}-C_{22} Aromatics	340	-10.0

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

```
==================================================================
Injection Date  : 10/7/2005 9:42:00 AM          Seq. Line :   2
Sample Name     : K 20 ccal                      Location : Vial 2
Acq. Operator   : DCS                                Inj :   1
Acq. Instrument : GC6                           Inj Volume : 10 µl
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed    : 11/10/2005 5:35:04 PM by DCS
                  (modified after loading)
```

TPH

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==================================================================
                        Area Percent Report
==================================================================

Sorted By             :      Signal
Calib. Data Modified  :      11/10/2005 5:35:04 PM
Multiplier            :      1.0000
Dilution              :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,

Peak RetTime  Type   Width     Area      Area    Name
  #   [min]          [min]    [pA*s]       %
----|-------|------|-------|----------|--------|--------------------
   1   2.970 BV     0.0191 1148.10840  0.00183 nonane
   2   3.840 BB     0.0212 1240.94751  0.00198 decane
   3   5.415 PV     0.0218 1026.26453  0.00164 dodecane
   4   6.590 VV     0.0380   25.53930 4.075e-5 2-FB(frac2)
   5   6.773 VV     0.0275 1046.39282  0.00167 tetradecane
   6   7.428 VV     0.0350    4.18854 6.684e-6 2-BrN(frac)
   7   7.968 BV     0.0260 1016.84766  0.00162 hexadecane
   8   9.046 BB     0.0275 1212.49658  0.00193 octadecane
   9   9.404 VV     0.0239    2.88604 4.605e-6 OTP
  10   9.546 VB     0.0264 1218.05200  0.00194 nonadecane
  11  10.025 BV     0.0275 1122.44482  0.00179 eicosane
  12  10.921 VB     0.0332 1256.97632  0.00201 docosane
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.435		0.0000	0.00000	0.00000	COD
14	11.750	BB	0.0316	1276.89844	0.00204	tetracosane
15	12.520	VB	0.0331	1304.86133	0.00208	hexacosane
16	13.238	BB	0.0327	1321.40161	0.00211	octacosane
17	13.909	BV	0.0361	1300.49158	0.00208	triacontane
18	16.019	BB	0.0551	1131.91321	0.00181	hexatriacontane

Totals : 1.66567e4 2.658e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	1.528	VV S	0.7620	5.83824e7	93.16029	?
2	1.573	VV S	0.0198	8.74161e5	1.39489	?
3	1.622	VV S	0.0364	2.33429e5	0.37248	?
4	1.683	VV S	0.0415	2.12883e5	0.33969	?
5	1.720	VV S	0.0367	1.91279e5	0.30522	?
6	1.758	VV S	0.0300	1.21941e5	0.19458	?
7	1.790	VV S	0.1911	7.51895e5	1.19979	?
8	1.992	VV S	0.0615	2.14571e5	0.34239	?
9	2.074	VV S	0.0289	1.20513e5	0.19230	?
10	2.114	VV S	0.0379	1.59966e5	0.25526	?
11	2.158	VV S	0.0393	1.33781e5	0.21347	?
12	2.251	VV S	0.0751	2.26368e5	0.36121	?
13	2.293	VV S	0.0308	9.81090e4	0.15655	?
14	2.336	VV S	0.0380	1.11898e5	0.17855	?
15	2.378	VV S	0.0331	1.03720e5	0.16550	?
16	2.456	VV S	0.0629	1.93347e5	0.30852	?
17	2.494	VV S	0.0344	1.08948e5	0.17385	?
18	2.565	VV S	0.0583	1.52270e5	0.24298	?
19	2.598	VV S	0.0343	9.07467e4	0.14480	?
20	2.639	VV S	0.0552	1.39051e5	0.22188	?
21	2.744	VV S	0.0221	1.50151e4	0.02396	?
22	2.775	VBAS	0.0224	1.51146e4	0.02412	?
23	3.490	BP	0.0355	2.97402	4.746e-6	?
24	3.582	VP	0.0180	2.34520	3.742e-6	?
25	5.193	VP	0.0243	4.87947	7.786e-6	?
26	5.579	VB	0.0506	151.78658	0.00024	?
27	6.894	VB	0.0502	174.94740	0.00028	?
28	7.338	PV	0.0290	22.39536	3.574e-5	?
29	7.563	VV	0.0814	16.64235	2.656e-5	?
30	7.801	VP	0.0230	6.55166	1.045e-5	?
31	8.063	VB	0.0604	164.35785	0.00026	?
32	8.893	BP	0.0244	2.64487	4.220e-6	?
33	10.086	VP	0.0345	111.95157	0.00018	?
34	10.796	PV	0.0265	4.16971	6.654e-6	?
35	13.587	BP	0.0462	5.46552	8.721e-6	?
36	14.133	VB	0.0484	28.93091	4.616e-5	?
37	14.651	BB	0.0295	2.30289	3.675e-6	?

Uncalib. totals : 6.26522e7 99.9734

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

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*** End of Report ***

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Injection Date  : 10/7/2005 11:34:01 AM          Seq. Line :   1
Sample Name     : R 20 ccal                       Location : Vial 6
Acq. Operator   : DCS                                 Inj :   1
Acq. Instrument : GC6                           Inj Volume : 10 µl
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPH-R_F.M
Last changed    : 9/23/2005 10:16:24 AM by DCS
TPH
```

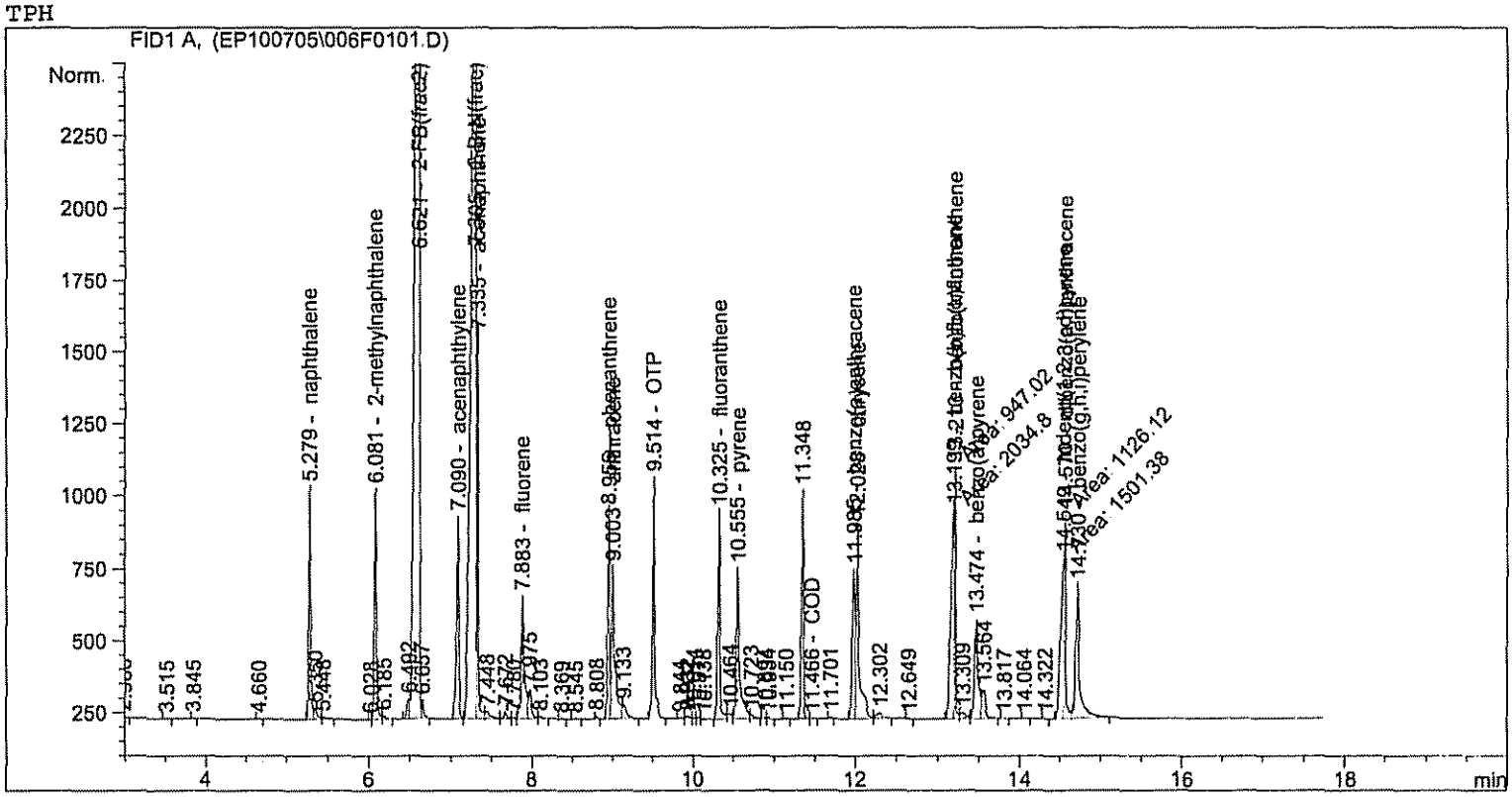


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==================================================================
                        Area Percent Report
==================================================================

Sorted By              :      Signal
Calib. Data Modified   :      9/23/2005 9:33:55 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.279	BV	0.0239	1299.88574	0.00194	naphthalene
2	6.081	VV	0.0269	1361.02783	0.00203	2-methylnaphthalene
3	6.621	VV	0.0420	1.68627e4	0.02516	2-FB(frac2)
4	7.090	BV	0.0296	1416.78296	0.00211	acenaphthylene
5	7.305	VV	0.0481	1.30783e4	0.01951	2-BrN(frac)
6	7.335	VB	0.0159	1354.34033	0.00202	acenaphthene
7	7.883	VV	0.0386	1153.44690	0.00172	fluorene
8	8.956	BV	0.0242	1184.22742	0.00177	phenanthrene
9	9.003	VV	0.0373	1417.85999	0.00212	anthracene
10	9.514	BB	0.0264	1534.81421	0.00229	OTP
11	10.325	BV	0.0293	1368.98694	0.00204	fluoranthene
12	10.555	VV	0.0392	1491.46069	0.00223	pyrene
13	11.466	BB	0.0455	4.29106	6.402e-6	COD

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
14	11.985	PV	0.0360	1250.22229	0.00187	benzo(a)anthracene
15	12.028	VV	0.0338	1681.41406	0.00251	chrysene
16	13.199	MF	0.0470	2034.79578	0.00304	benzo(b)fluoranthene
17	13.213	FM	0.0180	947.01965	0.00141	benzo(k)fluoranthene
18	13.474	VV	0.0453	1106.80310	0.00165	benzo(a)pyrene
19	14.549	MF	0.0447	1501.37561	0.00224	indeno(1,2,3-cd)pyrene
20	14.570	FM	0.0264	1126.11731	0.00168	dibenzo(a,h)anthracene
21	14.730	VB	0.0440	1592.94714	0.00238	benzo(g,h,i)perylene

Totals : 5.47688e4 8.171e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.532	BP	0.0204	124.88671	0.00019	?
2	1.588	VV S	0.8197	6.34872e7	94.71788	?
3	1.641	VV S	0.0185	8.82801e5	1.31707	?
4	1.701	VV S	0.0351	1.62462e5	0.24238	?
5	1.752	VV S	0.0424	2.01781e5	0.30104	?
6	1.798	VV S	0.0350	1.44050e5	0.21491	?
7	1.837	VV S	0.0298	1.26803e5	0.18918	?
8	1.888	VV S	0.0408	1.47617e5	0.22023	?
9	1.923	VV S	0.0521	1.62243e5	0.24205	?
10	1.972	VV S	0.0417	1.30605e5	0.19485	?
11	2.042	VV S	0.0468	1.81821e5	0.27126	?
12	2.093	VV S	0.0408	1.43124e5	0.21353	?
13	2.151	VV S	0.0393	1.22507e5	0.18277	?
14	2.202	VV S	0.0451	1.27197e5	0.18977	?
15	2.260	VV S	0.0443	1.19679e5	0.17855	?
16	2.303	VV S	0.0323	8.34567e4	0.12451	?
17	2.338	VV S	0.0275	7.15225e4	0.10671	?
18	2.368	VV S	0.0471	1.08446e5	0.16179	?
19	2.422	VV S	0.0266	6.51840e4	0.09725	?
20	2.463	VV S	0.0400	9.66501e4	0.14419	?
21	2.506	VV S	0.0268	7.20076e4	0.10743	?
22	2.539	VV S	0.0270	5.89923e4	0.08801	?
23	2.575	VV S	0.0322	7.29056e4	0.10877	?
24	2.611	VV S	0.0384	8.30847e4	0.12396	?
25	2.660	VV S	0.0376	5.70251e4	0.08508	?
26	2.698	VV S	0.0231	2.33469e4	0.03483	?
27	2.731	VV S	0.0271	1.87476e4	0.02797	?
28	2.765	VB S	0.0292	1.83587e4	0.02739	?
29	2.988	BB X	0.0179	1.18748	1.772e-6	?
30	3.515	PB	0.0411	2.92441	4.363e-6	?
31	3.845	BB	0.0242	4.47609	6.678e-6	?
32	4.660	PB	0.0307	2.83598	4.231e-6	?
33	5.350	VV	0.0391	103.70056	0.00015	?
34	5.448	VB	0.0512	28.07338	4.188e-5	?
35	6.028	PV	0.0188	2.43655	3.635e-6	?
36	6.185	VP	0.0401	30.63028	4.570e-5	?
37	6.492	PV	0.0405	190.30826	0.00028	?
38	6.657	VB	0.0210	90.72781	0.00014	?
39	7.448	BV	0.0636	123.16637	0.00018	?
40	7.672	VV	0.0350	65.61642	9.789e-5	?
41	7.780	VV	0.0373	13.70497	2.045e-5	?
42	7.975	VV	0.0359	254.50670	0.00038	?
43	8.103	VB	0.0403	21.02274	3.136e-5	?
44	8.369	PB	0.0268	3.47735	5.188e-6	?
45	8.545	PB	0.0346	5.11665	7.634e-6	?
46	8.808	PB	0.0202	13.69274	2.043e-5	?
47	9.133	VB	0.0447	152.44803	0.00023	?
48	9.844	BP	0.0311	4.94336	7.375e-6	?
49	9.932	VV	0.0336	20.76598	3.098e-5	?
50	10.014	VV	0.0307	3.07399	4.586e-6	?

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
51	10.074	VV	0.0266	5.91047	8.818e-6	?
52	10.138	VP	0.0507	6.40647	9.558e-6	?
53	10.464	VV	0.0478	68.14748	0.00010	?
54	10.723	VB	0.0428	41.53569	6.197e-5	?
55	10.894	BV	0.0370	4.61757	6.889e-6	?
56	10.934	VB	0.0277	4.07578	6.081e-6	?
57	11.150	VP	0.0267	4.36209	6.508e-6	?
58	11.348	BB	0.0262	1367.17871	0.00204	?
59	11.701	PB	0.0229	10.71769	1.599e-5	?
60	12.302	VB	0.0631	95.26394	0.00014	?
61	12.649	VB	0.0231	4.41325	6.584e-6	?
62	13.309	VV	0.0642	94.91554	0.00014	?
63	13.564	VB	0.0426	319.68002	0.00048	?
64	13.817	PB	0.0294	1.91399	2.856e-6	?
65	14.064	BP	0.0243	2.49938	3.729e-6	?
66	14.322	BB	0.0304	3.78172	5.642e-6	?

Uncalib. totals : 6.69729e7 99.9183

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

Attachment 3

EPH Laboratory Reporting Form

) Calibration and QA/QC Information

Initial Calibration Date: 09/13/05

Calibration Ranges and Limits

Range	MDL (2/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_9-C_{18} Aliphatics	3.84	12.2	100	10
C_{19}-C_{36} Aliphatics	0.57	1.8	100	10
C_{11}-C_{22} Aromatics	4.54	14.4	100	10

Calibration Concentration Levels

Range	Levels (µg/mL)	%RSD or CCC	Method of Quantitation
C_9-C_{18} Aliphatics	6	3.80	Calibration Factor
	30		
	60		
	120		
	240		
C_{19}-C_{36} Aliphatics	8	3.8	Calibration Factor
	40		
	80		
	160		
	320		
C_{11}-C_{22} Aromatics	17	7.9	Calibration Factor
	85		
	170		
	340		
	680		

Calibration Check Date: 10/17/05

Calibration Check

Range	Levels (µg/mL)	RPD
C_9-C_{18} Aliphatics	120	-7.1
C_{19}-C_{36} Aliphatics	160	-11.2
C_{11}-C_{22} Aromatics	340	-10.0

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

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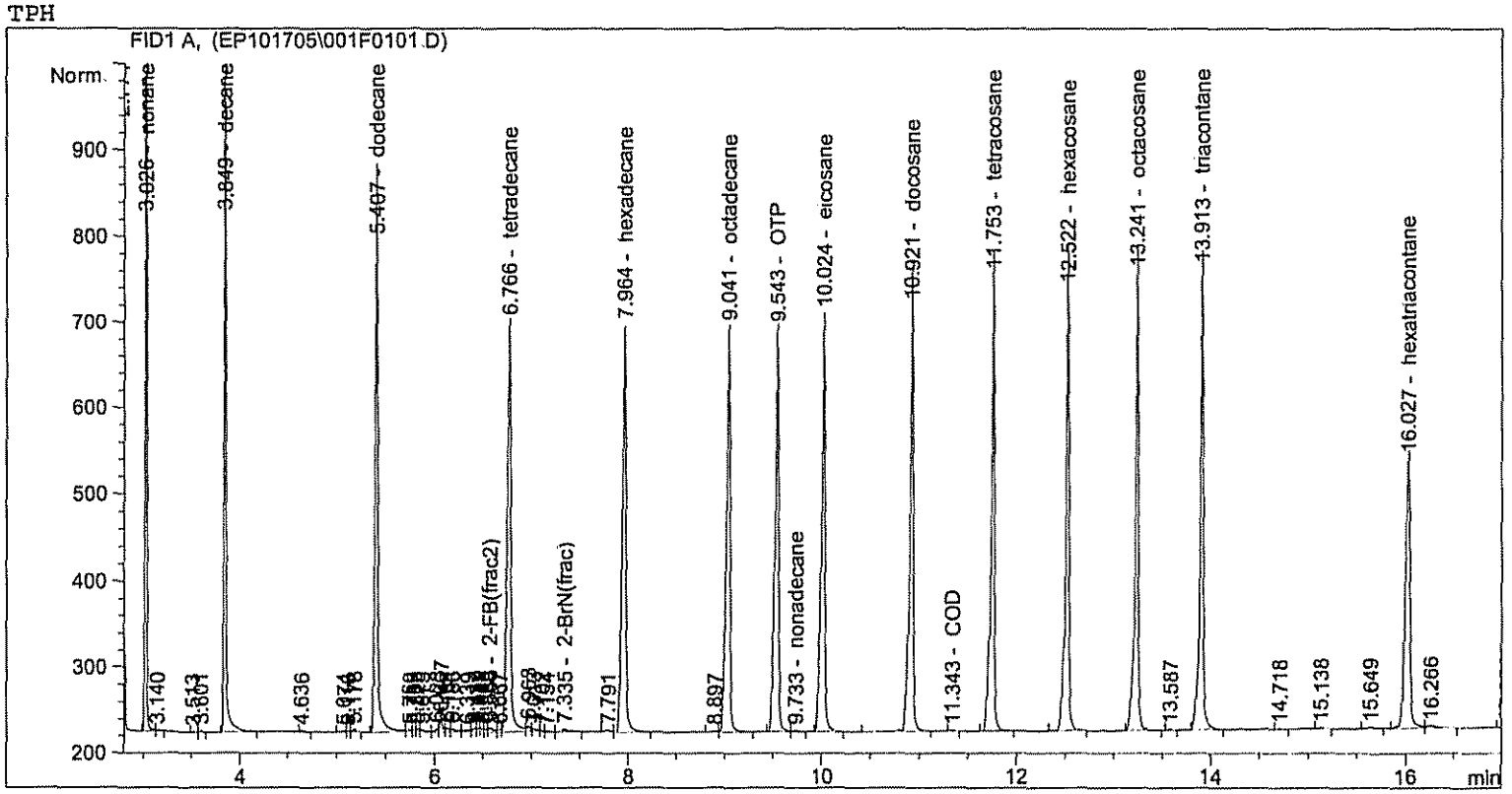
Injection Date : 10/17/2005 7:56:24 AM Seq. Line : 1
Sample Name : K 20 ccal Location : Vial 1
Acq. Operator : DCS Inj : 1
Acq. Instrument : GC6 Inj Volume : 10 µl
Acq. Method : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed : 11/7/2005 12:09:25 PM by DCS
TPH



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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 11/7/2005 12:09:17 PM
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	3.026	VV	0.0170	1236.23547	0.00170	nonane
2	3.849	VB	0.0206	1212.77185	0.00167	decane
3	5.407	VV	0.0291	1252.91113	0.00173	dodecane
4	6.566	VV	0.0478	19.42805	2.676e-5	2-FB(frac2)
5	6.766	VV	0.0392	1276.58032	0.00176	tetradecane
6	7.335	VB	0.0640	18.71688	2.578e-5	2-BrN(frac)
7	7.964	VB	0.0367	1248.30505	0.00172	hexadecane
8	9.041	VV	0.0381	1258.62317	0.00173	octadecane
9	9.543	BV	0.0395	1264.50146	0.00174	OTP
10	9.733	VV	0.0526	7.28509	1.003e-5	nonadecane
11	10.024	VB	0.0360	1246.91760	0.00172	eicosane
12	10.921	PB	0.0394	1246.65674	0.00172	docosane
13	11.343	BP	0.0359	2.28091	3.141e-6	COD

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
14	11.753	BB	0.0375	1247.82593	0.00172	tetracosane
15	12.522	BB	0.0383	1245.92981	0.00172	hexacosane
16	13.241	BB	0.0373	1243.13867	0.00171	octacosane
17	13.913	BB	0.0366	1223.36536	0.00168	triacontane
18	16.027	BV	0.0558	1118.67712	0.00154	hexatriacontane

Totals : 1.73702e4 2.392e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.546	VV	0.0234	82.10529	0.00011	?
2	1.742	VV S	0.9232	7.16662e7	98.69612	?
3	1.791	VV S	0.0171	7.89097e5	1.08672	?
4	1.875	VV S	0.0414	1.29294e4	0.01781	?
5	1.915	VV S	0.0315	1.01096e4	0.01392	?
6	1.963	VV S	0.0342	1.01872e4	0.01403	?
7	2.003	VV S	0.0308	8253.00781	0.01137	?
8	2.059	VV S	0.0372	9162.52051	0.01262	?
9	2.105	VV S	0.0437	1.12979e4	0.01556	?
10	2.163	VV S	0.0329	7957.09619	0.01096	?
11	2.209	VV S	0.0303	7621.23779	0.01050	?
12	2.254	VV S	0.0294	6411.15234	0.00883	?
13	2.290	VV S	0.0365	7085.05273	0.00976	?
14	2.350	VV S	0.0392	8331.94824	0.01147	?
15	2.401	VV S	0.0335	6076.28369	0.00837	?
16	2.444	VV S	0.0340	5994.39209	0.00826	?
17	2.490	VV S	0.0319	6298.21387	0.00867	?
18	2.535	VV S	0.0256	4849.73389	0.00668	?
19	2.569	VV S	0.0376	5061.36133	0.00697	?
20	2.604	VV S	0.0490	5722.10889	0.00788	?
21	2.669	VV S	0.0423	3184.30615	0.00439	?
22	2.732	VV S	0.0389	2197.82227	0.00303	?
23	2.774	VBAS	0.0235	1236.76489	0.00170	?
24	3.140	VB	0.0363	4.52463	6.231e-6	?
25	3.513	BV	0.0246	2.26472	3.119e-6	?
26	3.601	VP	0.0199	3.83738	5.285e-6	?
27	4.636	BV	0.0431	7.93358	1.093e-5	?
28	5.074	VV	0.0397	3.81947	5.260e-6	?
29	5.116	VV	0.0308	2.06761	2.847e-6	?
30	5.178	VP	0.0293	6.62572	9.125e-6	?
31	5.750	VV	0.0436	7.80376	1.075e-5	?
32	5.788	VV	0.0253	4.83828	6.663e-6	?
33	5.823	VV	0.0321	7.44633	1.025e-5	?
34	5.875	VV	0.0554	13.21365	1.820e-5	?
35	6.023	VV	0.0324	10.36927	1.428e-5	?
36	6.067	VV	0.0272	30.25748	4.167e-5	?
37	6.131	VV	0.0366	11.90268	1.639e-5	?
38	6.186	VV	0.0500	14.36704	1.979e-5	?
39	6.339	VV	0.0629	10.35944	1.427e-5	?
40	6.417	VV	0.0332	8.66722	1.194e-5	?
41	6.449	VV	0.0252	7.00749	9.650e-6	?
42	6.483	VV	0.0284	8.04647	1.108e-5	?
43	6.523	VV	0.0273	6.66021	9.172e-6	?
44	6.667	VV	0.0354	6.61561	9.111e-6	?
45	6.963	VV	0.0335	17.51896	2.413e-5	?
46	7.013	VV	0.0484	11.98442	1.650e-5	?
47	7.102	VV	0.0384	6.36239	8.762e-6	?
48	7.154	VV	0.0499	5.33160	7.342e-6	?
49	7.791	VP	0.0377	6.43071	8.856e-6	?
50	8.897	VV	0.0462	4.10248	5.650e-6	?
51	13.587	BB	0.0388	3.00608	4.140e-6	?
52	14.718	BP	0.0374	2.31582	3.189e-6	?
53	15.138	BP	0.0494	4.00690	5.518e-6	?

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
54	15.649	BP	0.0503	3.88880	5.356e-6	?
55	16.266	VB	0.1111	21.81066	3.004e-5	?
56	17.054	BB	0.0951	7.78036	1.071e-5	?

Uncalib. totals : 7.25956e7 99.9761

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

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*** End of Report ***

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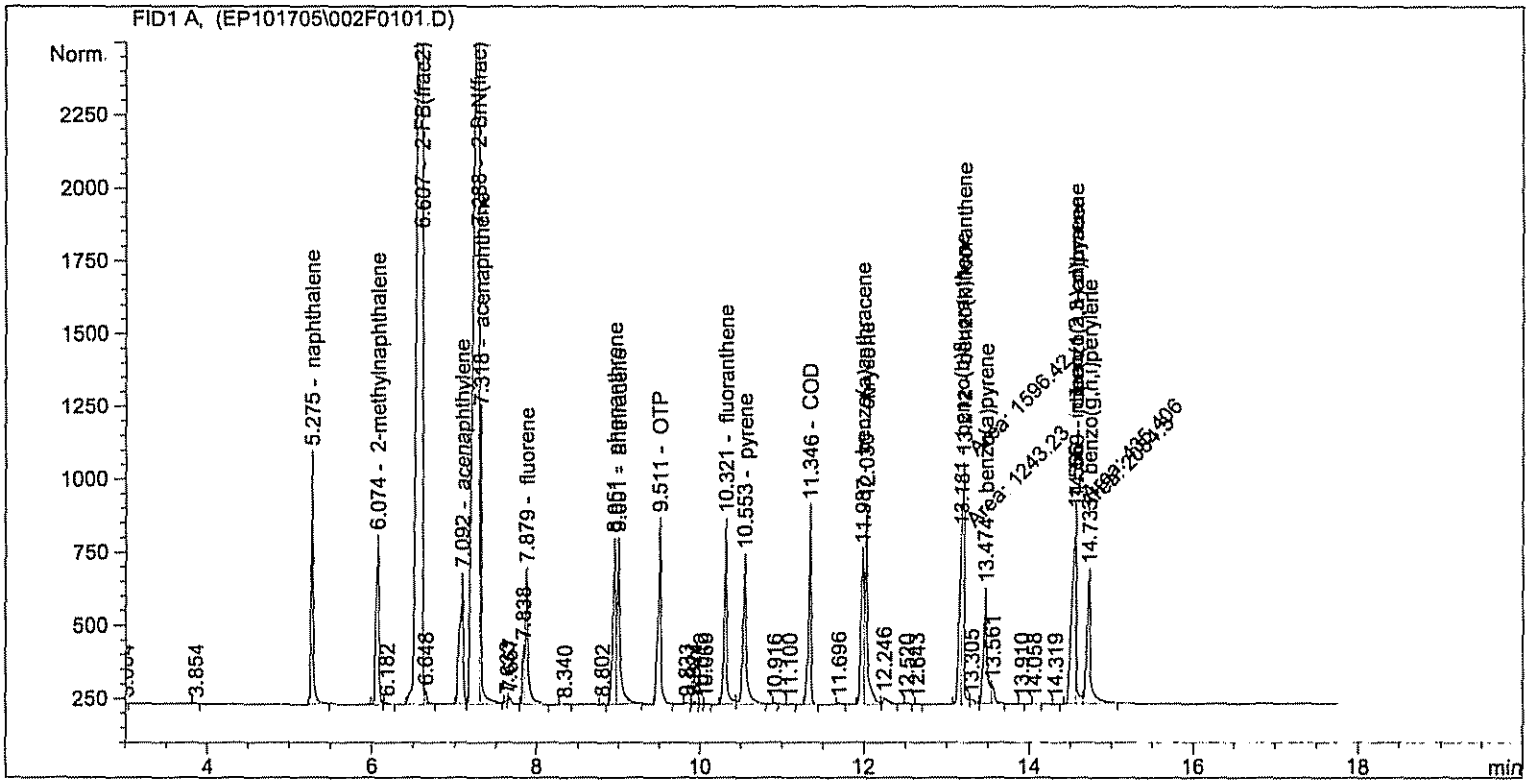
Injection Date : 10/17/2005 8:50:29 AM
Sample Name : R 20 ccal
Acq. Operator : DCS
Acq. Instrument : GC6
Acq. Method : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPH-R_F.M
Last changed : 9/23/2005 10:16:24 AM by DCS
TPH

Seq. Line : 1
Location : Vial 2
Inj : 1
Inj Volume : 10 µl



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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 9/23/2005 9:33:55 AM
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.275	BB	0.0260	1485.99011	0.00213	naphthalene
2	6.074	BV	0.0323	1407.07935	0.00202	2-methylnaphthalene
3	6.607	PV	0.0494	1.73563e4	0.02486	2-FB(frac2)
4	7.092	VV	0.0435	1429.87341	0.00205	acenaphthylene
5	7.288	VV	0.0558	1.34280e4	0.01924	2-BrN(frac)
6	7.318	VB	0.0184	1326.37000	0.00190	acenaphthene
7	7.879	VB	0.0336	1099.06934	0.00157	fluorene
8	8.951	BV	0.0335	1339.86523	0.00192	phenanthrene
9	9.001	VB	0.0353	1426.79211	0.00204	anthracene
10	9.511	BB	0.0345	1551.81091	0.00222	OTP
11	10.321	BV	0.0297	1398.27222	0.00200	fluoranthene
12	10.553	VB	0.0406	1523.54517	0.00218	pyrene
13	11.346	BB	0.0283	1359.59937	0.00195	COD

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
14	11.987	BV	0.0384	1331.61267	0.00191	benzo(a)anthracene
15	12.030	VV	0.0292	1477.40869	0.00212	chrysene
16	13.181	MF	0.0351	1243.22742	0.00178	benzo(b)fluoranthene
17	13.212	FM	0.0318	1596.42090	0.00229	benzo(k)fluoranthene
18	13.474	VV	0.0410	1180.35327	0.00169	benzo(a)pyrene
19	14.566	MF	0.0534	2084.30493	0.00299	indeno(1,2,3-cd)pyrene
20	14.569	FM	0.0106	435.40616	0.00062	dibenzo(a,h)anthracene
21	14.733	VB	0.0450	1492.55029	0.00214	benzo(g,h,i)perylene

Totals : 5.69738e4 8.162e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.563	PV S	0.0185	2201.77173	0.00315	?
2	0.610	VV S	0.0215	1.39751e5	0.20020	?
3	1.698	VV S	0.8850	6.94573e7	99.50218	?
4	1.795	PV T	0.0705	1.34803e4	0.01931	?
5	1.834	VV T	0.0303	6569.92285	0.00941	?
6	1.886	VV T	0.0236	2713.40112	0.00389	?
7	1.929	VV S	0.0331	1.26867e4	0.01817	?
8	1.980	VV S	0.0399	1.02843e4	0.01473	?
9	2.033	VV S	0.0499	1.21302e4	0.01738	?
10	2.101	VV S	0.0387	8988.67773	0.01288	?
11	2.157	VV S	0.0349	7809.60352	0.01119	?
12	2.204	VV S	0.0443	9070.31641	0.01299	?
13	2.240	VV S	0.0390	7009.61719	0.01004	?
14	2.290	VV S	0.0386	7454.62012	0.01068	?
15	2.345	VV S	0.0365	7183.11133	0.01029	?
16	2.405	VV S	0.0386	7494.52637	0.01074	?
17	2.442	VV S	0.0405	6016.30566	0.00862	?
18	2.482	VV S	0.1199	2.00001e4	0.02865	?
19	2.656	VV S	0.0294	3223.88184	0.00462	?
20	2.688	VV S	0.0308	2210.69995	0.00317	?
21	2.733	VV S	0.0526	2637.08008	0.00378	?
22	2.778	VB S	0.0159	608.35413	0.00087	?
23	2.811	BB X	0.0113	29.97051	4.293e-5	?
24	3.004	PB	0.0181	1.51326	2.168e-6	?
25	3.854	PB	0.0316	3.14233	4.502e-6	?
26	6.182	VB	0.0480	27.41117	3.927e-5	?
27	6.648	VB	0.0286	94.75075	0.00014	?
28	7.633	BV	0.0296	27.04494	3.874e-5	?
29	7.667	VV	0.0350	57.16222	8.189e-5	?
30	7.838	VV	0.0262	347.71051	0.00050	?
31	8.340	PB	0.0512	5.04369	7.225e-6	?
32	8.802	BP	0.0282	13.29268	1.904e-5	?
33	9.833	PV	0.0332	11.26683	1.614e-5	?
34	9.924	VV	0.0326	25.35235	3.632e-5	?
35	10.012	VV	0.0397	6.50536	9.319e-6	?
36	10.069	VB	0.0334	6.24524	8.947e-6	?
37	10.916	BP	0.0235	2.37009	3.395e-6	?
38	11.100	BP	0.0354	2.81720	4.036e-6	?
39	11.696	BB	0.0300	13.15984	1.885e-5	?
40	12.246	VB	0.0537	89.33135	0.00013	?
41	12.520	PB	0.0270	2.39069	3.425e-6	?
42	12.643	PB	0.0249	3.50398	5.020e-6	?
43	13.305	VV	0.0560	68.72858	9.846e-5	?
44	13.561	VB	0.0350	154.00848	0.00022	?
45	13.910	BV	0.0262	2.61526	3.747e-6	?
46	14.058	BP	0.0256	2.08780	2.991e-6	?
47	14.319	BB	0.0300	3.24592	4.650e-6	?

Uncalib. totals : 6.97478e7 99.9184

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Elution order of calibrated compounds may have changed

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*** End of Report ***

EPH QC, Blanks Raw Data

External Standard Report

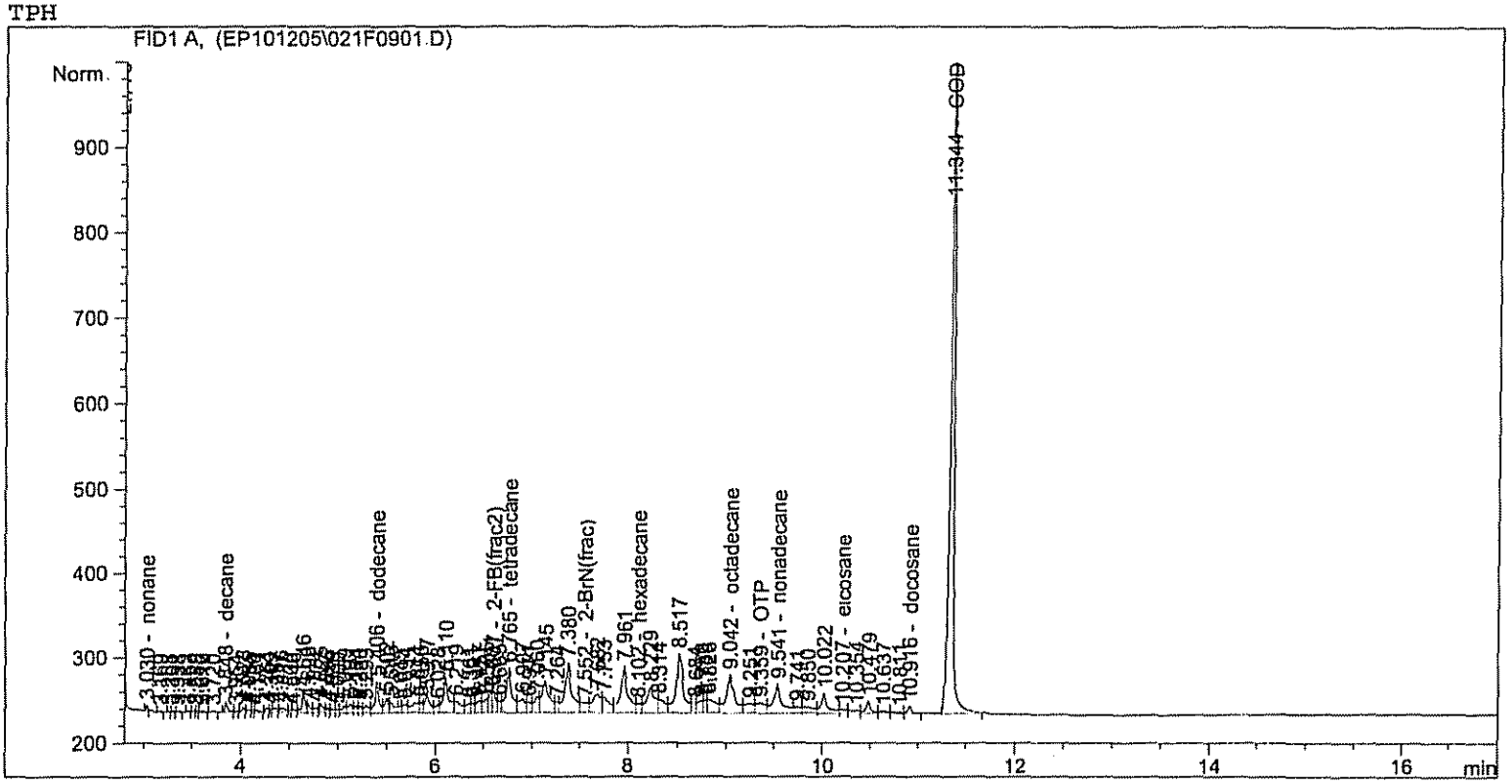
ıta File Name : C:\HPCHEM\1\DATA\EP101205\021F0901.D
ɔerator : DCS
ıstrument : GC6
ample Name : G349-122-3N x1 ms K
ın Time Bar Code: 167987
cquired on : 12 Oct 05 6:08:25 PM
eport Created on: 13 Oct 2005 9:03:24 AM
ast Recalib on : 20 Sep 2005 8:28:13 AM
ultiplier : 1.0000

Page Number :
Vial Number : Vial 21
Injection Number : 1
Sequence Line : 9
Instrument Method: PROEPH.M
Analysis Method : EPHTK_F.M
Sample Amount : 10 µl
ISTD Amount :

ig. 1 in C:\HPCHEM\1\DATA\EP101205\021F0901.D

et Time	Area	Type	Width	Ref#	ng	Name
3.030	7.90990	VV	0.01	1	1.021e-5	nonane
3.848	26.28801	VV	0.03	2	3.392e-5	decane
5.406	107.99859	VV	0.04	3	0.00014	dodecane
6.607	63.48125	VV	0.03	4	8.192e-5	2-FB(frac2)
6.765	227.76094	VV	0.05	5	0.00029	tetradecane
7.552	67.74052	VV	0.06	6	8.742e-5	2-BrN(frac)
8.102	41.71857	VV	0.04	7	5.384e-5	hexadecane
9.042	275.92899	VV	0.07	8	0.00036	octadecane
9.359	76.17035	VV	0.08	9	9.830e-5	OTP
9.541	214.10609	VV	0.07	10	0.00028	nonadecane
10.207	19.29408	VV	0.06	11	2.490e-5	eicosane
10.916	26.05239	VV	0.04	12	3.362e-5	docosane
11.344	2200.96387	BB	0.03	13	0.00284	COD
11.779	0.00000	XX	0.00	14	0.00000	tetracosane
12.525	0.00000	XX	0.00	15	0.00000	hexacosane
13.242	0.00000	XX	0.00	16	0.00000	octacosane
13.914	0.00000	XX	0.00	17	0.00000	triacontane
16.100	0.00000	XX	0.00	18	0.00000	hexatriacontane
0.543	13.58289	PV	9.18e	1	1.753e-5	* uncalibrated *
0.580	12.22147	VV	0.02	2	1.577e-5	* uncalibrated *
1.766	7.63891e7	VVS	0.94	3	98.57799	* uncalibrated *
1.814	9.55427e5	VVS	0.01	4	1.23295	* uncalibrated *
1.874	9590.35449	VVS	0.02	5	0.01238	* uncalibrated *
1.907	1.18713e4	VVS	0.04	6	0.01532	* uncalibrated *
1.969	1.28055e4	VVS	0.05	7	0.01653	* uncalibrated *
2.038	1.60494e4	VVS	0.07	8	0.02071	* uncalibrated *
2.116	8927.26367	VVS	0.04	9	0.01152	* uncalibrated *
2.169	1.06924e4	VVS	0.04	10	0.01380	* uncalibrated *
2.229	9425.84277	VVS	0.04	11	0.01216	* uncalibrated *
2.263	6214.56543	VVS	0.03	12	0.00802	* uncalibrated *
2.314	1.01054e4	VVS	0.06	13	0.01304	* uncalibrated *
2.387	9275.02051	VVS	0.05	14	0.01197	* uncalibrated *
2.439	5410.51270	VVS	0.03	15	0.00698	* uncalibrated *
2.474	4469.56104	VVS	0.02	16	0.00577	* uncalibrated *
2.507	3820.53442	VVS	0.02	17	0.00493	* uncalibrated *
2.543	4748.48486	VVS	0.03	18	0.00613	* uncalibrated *
2.575	3336.57593	VVS	0.02	19	0.00431	* uncalibrated *
2.607	4022.32324	VVS	0.03	20	0.00519	* uncalibrated *
2.642	4428.27051	VVS	0.03	21	0.00571	* uncalibrated *
2.697	2063.95044	VVS	0.03	22	0.00266	* uncalibrated *
2.734	1335.88721	VVS	0.02	23	0.00172	* uncalibrated *
2.770	800.94733	VBAS	0.02	24	0.00103	* uncalibrated *
3.169	2.12428	VP	0.02	25	2.741e-6	* uncalibrated *

```
==================================================================
Injection Date  : 10/12/2005 6:08:25 PM          Seq. Line :   9
Sample Name     : 167987 x1 ms K                  Location : Vial 21
Acq. Operator   : DCS                                 Inj :   1
Acq. Instrument : GC6                           Inj Volume : 10 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\101205A.S
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed    : 10/6/2005 10:15:42 AM by DCS
TPH
```




```
==================================================================
                        Area Percent Report
==================================================================

Sorted By              :      Signal
Calib. Data Modified   :      9/20/2005 8:28:13 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	3.030	VV	0.0184	7.90990	1.021e-5	nonane
2	3.848	VV	0.0305	26.28801	3.392e-5	decane
3	5.406	VV	0.0417	107.99859	0.00014	dodecane
4	6.607	VV	0.0372	63.48125	8.192e-5	2-FB(frac2)
5	6.765	VV	0.0565	227.76094	0.00029	tetradecane
6	7.552	VV	0.0686	67.74052	8.742e-5	2-BrN(frac)
7	8.102	VV	0.0476	41.71857	5.384e-5	hexadecane
8	9.042	VV	0.0786	275.92899	0.00036	octadecane
9	9.359	VV	0.0840	76.17035	9.830e-5	OTP
10	9.541	VV	0.0798	214.10609	0.00028	nonadecane
11	10.207	VV	0.0623	19.29408	2.490e-5	eicosane
12	10.916	VV	0.0476	26.05239	3.362e-5	docosane

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.344	BB	0.0394	2200.96387	0.00284	COD
14	11.779		0.0000	0.00000	0.00000	tetracosane
15	12.525		0.0000	0.00000	0.00000	hexacosane
16	13.242		0.0000	0.00000	0.00000	octacosane
17	13.914		0.0000	0.00000	0.00000	triacontane
18	16.100		0.0000	0.00000	0.00000	hexatriacontane

Totals : 3355.41354 4.330e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.543	PV	9.18e-3	13.58289	1.753e-5	?
2	0.580	VV	0.0200	12.22147	1.577e-5	?
3	1.766	VV S	0.9498	7.63891e7	98.57799	?
4	1.814	VV S	0.0196	9.55427e5	1.23295	?
5	1.874	VV S	0.0275	9590.35449	0.01238	?
6	1.907	VV S	0.0441	1.18713e4	0.01532	?
7	1.969	VV S	0.0521	1.28055e4	0.01653	?
8	2.038	VV S	0.0736	1.60494e4	0.02071	?
9	2.116	VV S	0.0403	8927.26367	0.01152	?
10	2.169	VV S	0.0460	1.06924e4	0.01380	?
11	2.229	VV S	0.0431	9425.84277	0.01216	?
12	2.263	VV S	0.0350	6214.56543	0.00802	?
13	2.314	VV S	0.0624	1.01054e4	0.01304	?
14	2.387	VV S	0.0551	9275.02051	0.01197	?
15	2.439	VV S	0.0342	5410.51270	0.00698	?
16	2.474	VV S	0.0281	4469.56104	0.00577	?
17	2.507	VV S	0.0259	3820.53442	0.00493	?
18	2.543	VV S	0.0320	4748.48486	0.00613	?
19	2.575	VV S	0.0263	3336.57593	0.00431	?
20	2.607	VV S	0.0300	4022.32324	0.00519	?
21	2.642	VV S	0.0376	4428.27051	0.00571	?
22	2.697	VV S	0.0303	2063.95044	0.00266	?
23	2.734	VV S	0.0276	1335.88721	0.00172	?
24	2.770	VBAS	0.0209	800.94733	0.00103	?
25	3.169	VP	0.0218	2.12428	2.741e-6	?
26	3.258	VV	0.0203	1.69999	2.194e-6	?
27	3.301	VV	0.0221	2.75641	3.557e-6	?
28	3.358	VV	0.0266	2.21696	2.861e-6	?
29	3.463	VV	0.0211	3.14682	4.061e-6	?
30	3.529	VV	0.0277	2.94260	3.797e-6	?
31	3.555	VV	0.0204	2.39392	3.089e-6	?
32	3.610	VV	0.0306	5.50565	7.105e-6	?
33	3.720	VV	0.0437	5.04396	6.509e-6	?
34	3.954	VV	0.0302	2.88896	3.728e-6	?
35	4.028	VV	0.0287	12.71927	1.641e-5	?
36	4.085	VV	0.0301	9.37519	1.210e-5	?
37	4.126	VV	0.0238	4.86822	6.282e-6	?
38	4.161	VV	0.0411	9.88183	1.275e-5	?
39	4.261	VV	0.0260	11.53991	1.489e-5	?
40	4.309	VV	0.0207	4.81968	6.220e-6	?
41	4.357	VV	0.0407	15.22646	1.965e-5	?
42	4.416	VV	0.0496	19.96749	2.577e-5	?
43	4.509	VV	0.0268	6.56996	8.478e-6	?
44	4.546	VV	0.0385	11.01625	1.422e-5	?
45	4.646	VV	0.0352	59.38652	7.664e-5	?
46	4.699	VV	0.0304	21.78787	2.812e-5	?
47	4.774	VV	0.0385	16.53172	2.133e-5	?
48	4.825	VV	0.0349	26.58507	3.431e-5	?
49	4.896	VV	0.0275	13.52672	1.746e-5	?
50	4.939	VV	0.0382	12.87325	1.661e-5	?
51	5.000	VV	0.0312	9.69704	1.251e-5	?
52	5.069	VV	0.0411	25.33045	3.269e-5	?

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
53	5.131	VV	0.0412	31.99656	4.129e-5	?
54	5.184	VV	0.0344	18.86731	2.435e-5	?
55	5.230	VV	0.0320	17.92016	2.313e-5	?
56	5.293	VV	0.0477	29.49301	3.806e-5	?
57	5.502	VV	0.0392	46.61075	6.015e-5	?
58	5.546	VV	0.0523	47.26256	6.099e-5	?
59	5.645	VV	0.0302	15.91827	2.054e-5	?
60	5.694	VV	0.0432	31.83484	4.108e-5	?
61	5.814	VV	0.0677	65.01180	8.390e-5	?
62	5.855	VV	0.0314	27.02683	3.488e-5	?
63	5.917	VV	0.0540	79.98827	0.00010	?
64	6.028	VV	0.0392	29.73206	3.837e-5	?
65	6.110	VV	0.0546	169.44524	0.00022	?
66	6.219	VV	0.0688	65.67491	8.475e-5	?
67	6.361	VV	0.0447	39.71748	5.125e-5	?
68	6.391	VV	0.0374	28.48907	3.676e-5	?
69	6.457	VV	0.0528	50.01071	6.454e-5	?
70	6.535	VV	0.0453	53.69599	6.929e-5	?
71	6.581	VV	0.0332	52.88656	6.825e-5	?
72	6.665	VV	0.0309	29.21634	3.770e-5	?
73	6.907	VV	0.0626	82.09718	0.00011	?
74	6.971	VV	0.0461	41.17295	5.313e-5	?
75	7.060	VV	0.0486	70.07016	9.042e-5	?
76	7.145	VV	0.0750	202.99887	0.00026	?
77	7.264	VV	0.0320	30.42190	3.926e-5	?
78	7.380	VV	0.0659	295.40414	0.00038	?
79	7.682	VV	0.0770	136.37355	0.00018	?
80	7.753	VV	0.0675	98.03210	0.00013	?
81	7.961	VV	0.0689	281.72232	0.00036	?
82	8.229	VV	0.0752	176.55986	0.00023	?
83	8.314	VV	0.0586	75.36205	9.725e-5	?
84	8.517	VV	0.0669	370.14548	0.00048	?
85	8.684	VV	0.0392	35.36279	4.563e-5	?
86	8.752	VV	0.0535	56.93000	7.347e-5	?
87	8.789	VV	0.0283	31.34538	4.045e-5	?
88	8.826	VV	0.0828	99.34359	0.00013	?
89	9.251	VV	0.0841	74.82220	9.656e-5	?
90	9.741	VV	0.0610	36.68991	4.735e-5	?
91	9.850	VV	0.0902	58.63008	7.566e-5	?
92	10.022	VV	0.0624	112.55184	0.00015	?
93	10.354	VV	0.0832	27.04523	3.490e-5	?
94	10.479	VV	0.0469	52.76818	6.810e-5	?
95	10.637	VV	0.0723	16.12128	2.080e-5	?
96	10.811	VV	0.0875	14.49665	1.871e-5	?

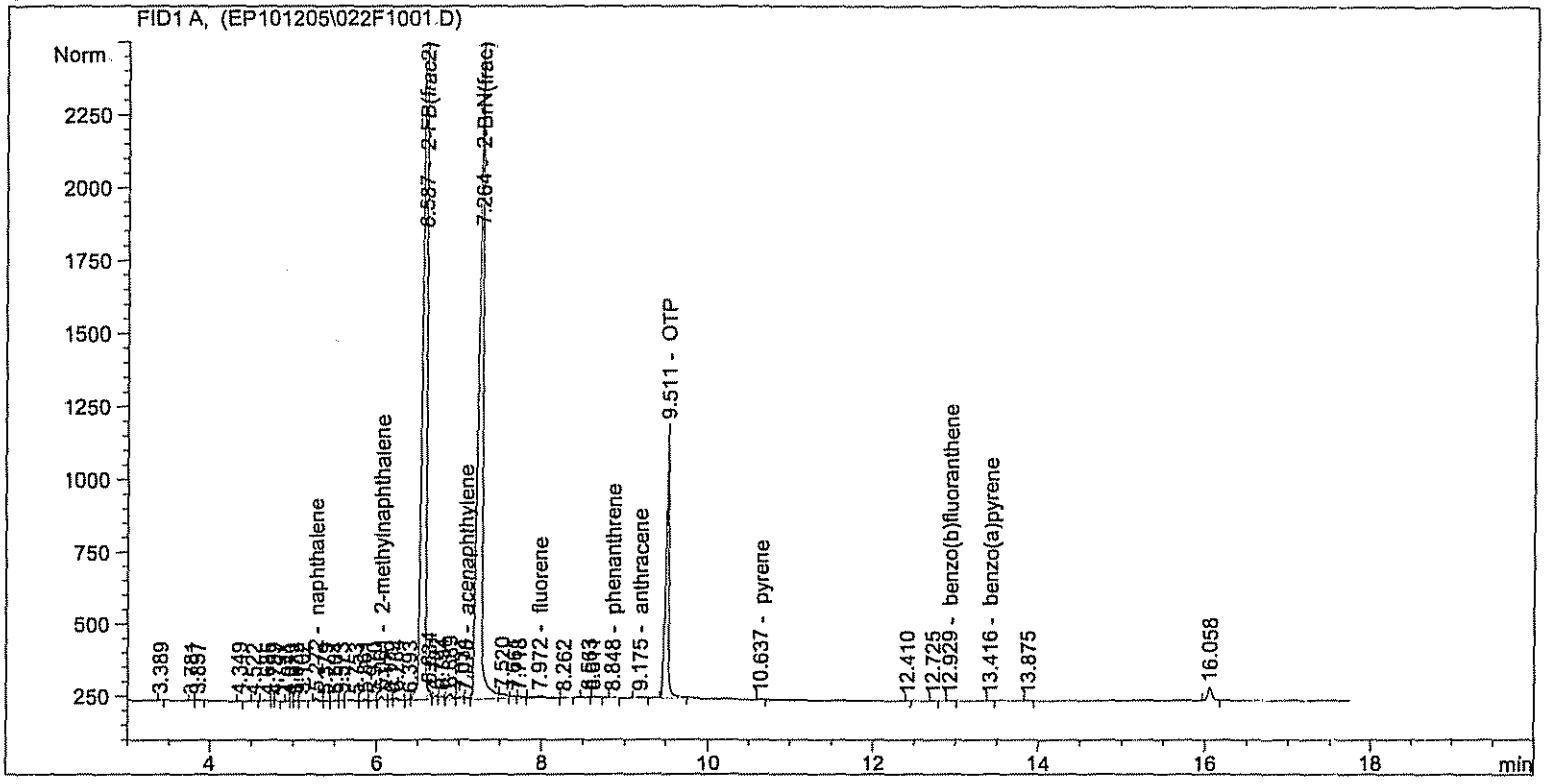
Uncalib. totals : 7.74876e7 99.9957

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

==========
*** End of Report ***

```
==================================================================
Injection Date  : 10/12/2005 6:35:50 PM          Seq. Line :  10
Sample Name     : 167987 x1 ms R                  Location : Vial 22
Acq. Operator   : DCS                                  Inj :   1
Acq. Instrument : GC6                            Inj Volume : 10 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\101205A.S
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPH-R_F.M
Last changed    : 9/23/2005 10:16:24 AM by DCS
TPH
```




```
==================================================================
                      Area Percent Report
==================================================================

Sorted By              :      Signal
Calib. Data Modified   :      9/23/2005 9:33:55 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.272	VV	0.0411	37.31765	4.960e-5	naphthalene
2	6.061	VV	0.0426	39.51717	5.252e-5	2-methylnaphthalene
3	6.587	VV	0.0372	9681.49902	0.01287	2-FB(frac2)
4	7.076	VV	0.0468	18.13963	2.411e-5	acenaphthylene
5	7.264	VV	0.0462	8424.54297	0.01120	2-BrN(frac)
6	7.323		0.0000	0.00000	0.00000	acenaphthene
7	7.972	VV	0.1786	95.26817	0.00013	fluorene
8	8.848	PP	0.0321	2.72267	3.619e-6	phenanthrene
9	9.175	BB	0.0635	15.76155	2.095e-5	anthracene
10	9.511	VB	0.0344	2375.02490	0.00316	OTP
11	10.318		0.0000	0.00000	0.00000	fluoranthene
12	10.637	BP	0.0368	4.34923	5.780e-6	pyrene

a File C:\HPCHEM\1\DATA\EP101205\022F1001.D Sample Name: 167987 x1 ms R

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.428		0.0000	0.00000	0.00000	COD
14	11.985		0.0000	0.00000	0.00000	benzo(a)anthracene
15	12.022		0.0000	0.00000	0.00000	chrysene
16	12.929	BP	0.0330	1.92295	2.556e-6	benzo(b)fluoranthene
17	13.215		0.0000	0.00000	0.00000	benzo(k)fluoranthene
18	13.416	BP	0.0339	2.99480	3.980e-6	benzo(a)pyrene
19	14.607		0.0000	0.00000	0.00000	dibenzo(a,h)anthracene
20	14.640		0.0000	0.00000	0.00000	indeno(1,2,3-cd)pyrene
21	14.817		0.0000	0.00000	0.00000	benzo(g,h,i)perylene

Totals : 2.06991e4 2.751e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.550	PV	0.0196	136.51497	0.00018	?
2	0.581	VV	0.0190	59.17686	7.865e-5	?
3	0.693	VV S	0.0359	1.03214e6	1.37178	?
4	1.724	VV S	0.9123	7.32445e7	97.34677	?
5	1.787	VV S	0.0171	7.81431e5	1.03857	?
6	1.828	VV S	0.0596	1.93876e4	0.02577	?
7	1.878	VV S	0.0475	1.34222e4	0.01784	?
8	1.933	VV S	0.0451	1.24191e4	0.01651	?
9	2.000	VV S	0.0333	8324.86719	0.01106	?
10	2.039	VV S	0.0504	1.16026e4	0.01542	?
11	2.106	VV S	0.0525	1.10836e4	0.01473	?
12	2.156	VV S	0.0414	9470.45410	0.01259	?
13	2.215	VV S	0.0345	8090.26416	0.01075	?
14	2.250	VV S	0.0410	7551.73828	0.01004	?
15	2.297	VV S	0.0294	5610.08301	0.00746	?
16	2.332	VV S	0.0259	4672.16406	0.00621	?
17	2.361	VV S	0.0366	6660.38770	0.00885	?
18	2.406	VV S	0.0274	5337.53809	0.00709	?
19	2.446	VV S	0.0402	6409.63135	0.00852	?
20	2.485	VV S	0.0314	5401.43311	0.00718	?
21	2.530	VV S	0.0328	5272.92432	0.00701	?
22	2.573	VV S	0.0429	7261.23193	0.00965	?
23	2.632	VV S	0.0429	5870.63428	0.00780	?
24	2.681	VV S	0.0369	3229.54565	0.00429	?
25	2.719	VV S	0.0221	1481.97595	0.00197	?
26	2.740	VV S	0.0245	1221.07629	0.00162	?
27	2.774	VB S	0.0269	1159.81055	0.00154	?
28	2.808	BB T	0.0202	48.95456	6.506e-5	?
29	3.389	PP	0.0204	1.66062	2.207e-6	?
30	3.781	BB	0.0250	1.93934	2.578e-6	?
31	3.857	BB	0.0466	3.29947	4.385e-6	?
32	4.349	VB	0.0263	3.64618	4.846e-6	?
33	4.522	VB	0.0247	2.37691	3.159e-6	?
34	4.685	BV	0.0559	6.89735	9.167e-6	?
35	4.759	VV	0.0224	2.69267	3.579e-6	?
36	4.787	VB	0.0261	3.68030	4.891e-6	?
37	4.941	BV	0.0245	6.64697	8.834e-6	?
38	4.979	VV	0.0267	3.70125	4.919e-6	?
39	5.032	VV	0.0351	8.00015	1.063e-5	?
40	5.102	VB	0.0384	9.66236	1.284e-5	?
41	5.379	VP	0.0376	8.32910	1.107e-5	?
42	5.504	VV	0.0340	8.38176	1.114e-5	?
43	5.573	VP	0.0269	5.00769	6.656e-6	?
44	5.753	VP	0.0618	8.86909	1.179e-5	?
45	5.861	VV	0.0364	20.84589	2.771e-5	?
46	5.970	VV	0.0551	10.65883	1.417e-5	?
47	6.179	VV	0.0298	10.48547	1.394e-5	?
48	6.234	VP	0.0483	42.66851	5.671e-5	?
49	6.393	VV	0.0354	12.68090	1.685e-5	?

ta File C:\HPCHEM\1\DATA\EP101205\022F1001.D Sample Name: 167987 x1 ms R

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
50	6.634	VV	0.0258	62.26669	8.276e-5	?
51	6.722	VV	0.0406	49.42123	6.568e-5	?
52	6.794	VV	0.0471	44.00335	5.848e-5	?
53	6.889	VV	0.0571	79.14093	0.00011	?
54	7.034	VV	0.0590	38.94297	5.176e-5	?
55	7.520	VV	0.0791	100.05217	0.00013	?
56	7.661	VV	0.0647	50.19814	6.672e-5	?
57	7.718	VV	0.0695	45.58493	6.059e-5	?
58	8.262	VB	0.0611	7.78596	1.035e-5	?
59	8.563	VV	0.0461	15.72131	2.089e-5	?
60	8.611	VP	0.0561	19.28202	2.563e-5	?
61	12.410	BP	0.0315	2.65650	3.531e-6	?
62	12.725	PB	0.0392	3.69195	4.907e-6	?
63	13.875	BB	0.0396	2.94652	3.916e-6	?
64	16.058	BB	0.0517	157.82150	0.00021	?

Uncalib. totals : 7.52201e7 99.9725

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

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*** End of Report ***

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==================================================================
Injection Date  : 10/12/2005 7:03:14 PM          Seq. Line :  11
Sample Name     : 167988 x1 msd K                 Location : Vial 23
Acq. Operator   : DCS                                 Inj :   1
Acq. Instrument : GC6                           Inj Volume : 10 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\101205A.S
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed    : 10/6/2005 10:15:42 AM by DCS
TPH
```
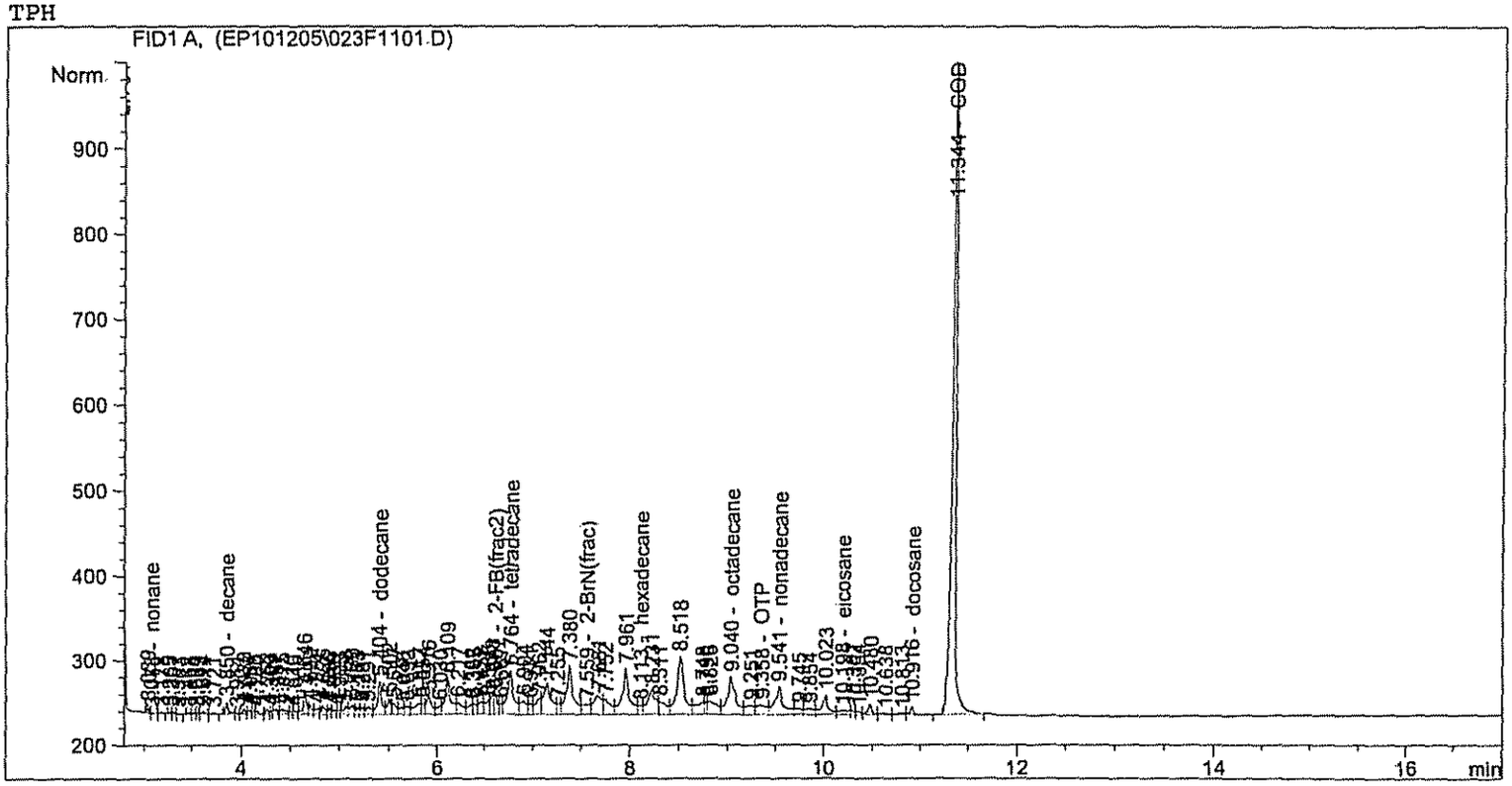




```
==================================================================
                        Area Percent Report
==================================================================

Sorted By              :      Signal
Calib. Data Modified   :      9/20/2005 8:28:13 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	3.078	VP	0.0265	2.09594	2.666e-6	nonane
2	3.850	VV	0.0306	28.58847	3.636e-5	decane
3	5.404	VV	0.0415	114.67809	0.00015	dodecane
4	6.607	VV	0.0362	62.03788	7.890e-5	2-FB(frac2)
5	6.764	VV	0.0617	240.81299	0.00031	tetradecane
6	7.559	VV	0.0717	66.61620	8.472e-5	2-BrN(frac)
7	8.113	VV	0.0474	36.93791	4.698e-5	hexadecane
8	9.040	VV	0.0778	270.13339	0.00034	octadecane
9	9.358	VV	0.0929	82.87135	0.00011	OTP
10	9.541	VV	0.0792	201.49847	0.00026	nonadecane
11	10.198	VV	0.0936	37.29858	4.744e-5	eicosane
12	10.916	VP	0.0471	25.07299	3.189e-5	docosane

a File C:\HPCHEM\1\DATA\EP101205\023F1101.D Sample Name: 167988 x1 msd K

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.344	PP	0.0409	2200.62451	0.00280	COD
14	11.779		0.0000	0.00000	0.00000	tetracosane
15	12.525		0.0000	0.00000	0.00000	hexacosane
16	13.242		0.0000	0.00000	0.00000	octacosane
17	13.914		0.0000	0.00000	0.00000	triacontane
18	16.100		0.0000	0.00000	0.00000	hexatriacontane

Totals : 3369.26678 4.285e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.548	PV	0.0231	59.28786	7.540e-5	?
2	0.581	VV	0.0218	21.45632	2.729e-5	?
3	0.691	VV S	0.0353	8.95184e5	1.13847	?
4	1.787	VV S	0.9522	7.66429e7	97.47192	?
5	1.837	VV S	0.0194	9.56875e5	1.21692	?
6	1.921	VV S	0.0416	1.21758e4	0.01548	?
7	1.968	VV S	0.0359	1.00183e4	0.01274	?
8	2.012	VV S	0.0364	9238.61328	0.01175	?
9	2.061	VV S	0.0371	8746.73145	0.01112	?
10	2.127	VV S	0.0543	1.09759e4	0.01396	?
11	2.158	VV S	0.0253	5592.74707	0.00711	?
12	2.200	VV S	0.0419	8628.67676	0.01097	?
13	2.257	VV S	0.0458	9308.14453	0.01184	?
14	2.308	VV S	0.0288	5635.44043	0.00717	?
15	2.355	VV S	0.0556	8761.93457	0.01114	?
16	2.414	VV S	0.0635	9115.40527	0.01159	?
17	2.486	VV S	0.0452	6639.49854	0.00844	?
18	2.534	VV S	0.0436	7141.16650	0.00908	?
19	2.590	VV S	0.0409	5726.54004	0.00728	?
20	2.629	VV S	0.0340	4077.31201	0.00519	?
21	2.665	VV S	0.0278	2470.43164	0.00314	?
22	2.699	VV S	0.0344	2402.80957	0.00306	?
23	2.761	VBAS	0.0390	1928.54175	0.00245	?
24	3.039	VV	0.0175	8.67301	1.103e-5	?
25	3.178	VV	0.0239	2.83215	3.602e-6	?
26	3.265	VV	0.0207	2.10598	2.678e-6	?
27	3.307	VV	0.0224	3.23745	4.117e-6	?
28	3.363	VP	0.0267	2.48807	3.164e-6	?
29	3.468	VV	0.0219	3.29437	4.190e-6	?
30	3.534	VV	0.0262	3.28802	4.182e-6	?
31	3.559	VV	0.0199	2.61456	3.325e-6	?
32	3.614	VV	0.0289	5.99744	7.627e-6	?
33	3.721	VV	0.0437	5.65961	7.198e-6	?
34	3.954	VV	0.0296	2.85417	3.630e-6	?
35	4.030	VV	0.0272	13.82925	1.759e-5	?
36	4.087	VV	0.0298	10.29765	1.310e-5	?
37	4.128	VV	0.0258	5.48675	6.978e-6	?
38	4.160	VV	0.0425	10.43119	1.327e-5	?
39	4.262	VV	0.0272	12.43744	1.582e-5	?
40	4.309	VV	0.0190	5.29673	6.736e-6	?
41	4.357	VV	0.0392	16.91173	2.151e-5	?
42	4.415	VV	0.0480	21.48984	2.733e-5	?
43	4.510	VV	0.0269	7.13604	9.075e-6	?
44	4.546	VV	0.0386	11.67465	1.485e-5	?
45	4.646	VV	0.0326	65.55990	8.338e-5	?
46	4.699	VV	0.0283	21.90916	2.786e-5	?
47	4.774	VV	0.0378	18.04066	2.294e-5	?
48	4.826	VV	0.0353	27.97009	3.557e-5	?
49	4.896	VV	0.0263	14.30441	1.819e-5	?
50	4.939	VV	0.0387	13.47617	1.714e-5	?
51	4.999	VV	0.0308	10.07613	1.281e-5	?
52	5.068	VV	0.0407	26.37944	3.355e-5	?

a File C:\HPCHEM\1\DATA\EP101205\023F1101.D Sample Name: 167988 x1 msd K

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
53	5.130	VV	0.0420	34.21870	4.352e-5	?
54	5.183	VV	0.0323	19.77711	2.515e-5	?
55	5.231	VV	0.0337	18.84433	2.397e-5	?
56	5.291	VV	0.0471	31.44636	3.999e-5	?
57	5.502	VV	0.0379	50.70041	6.448e-5	?
58	5.547	VV	0.0407	36.22678	4.607e-5	?
59	5.646	VV	0.0481	29.37448	3.736e-5	?
60	5.693	VV	0.0448	34.87882	4.436e-5	?
61	5.817	VV	0.0703	66.27133	8.428e-5	?
62	5.854	VV	0.0333	30.00408	3.816e-5	?
63	5.916	VV	0.0542	83.07993	0.00011	?
64	6.030	VV	0.0447	33.00173	4.197e-5	?
65	6.109	VV	0.0580	181.27296	0.00023	?
66	6.217	VV	0.0639	63.12951	8.029e-5	?
67	6.362	VV	0.0462	43.54011	5.537e-5	?
68	6.385	VV	0.0378	31.65084	4.025e-5	?
69	6.458	VV	0.0488	48.89341	6.218e-5	?
70	6.535	VV	0.0473	56.91842	7.239e-5	?
71	6.578	VV	0.0310	51.37277	6.533e-5	?
72	6.667	VV	0.0260	25.83777	3.286e-5	?
73	6.904	VV	0.0623	76.91547	9.782e-5	?
74	6.971	VV	0.0417	40.71014	5.177e-5	?
75	7.062	VV	0.0544	72.64811	9.239e-5	?
76	7.144	VV	0.0759	208.27933	0.00026	?
77	7.255	VV	0.0383	34.29974	4.362e-5	?
78	7.380	VV	0.0674	293.36176	0.00037	?
79	7.681	VV	0.0725	133.52971	0.00017	?
80	7.752	VV	0.0677	94.78666	0.00012	?
81	7.961	VV	0.0700	286.23083	0.00036	?
82	8.231	VV	0.0788	173.62273	0.00022	?
83	8.311	VV	0.0686	84.49693	0.00011	?
84	8.518	VV	0.0705	364.66876	0.00046	?
85	8.748	VV	0.0831	91.42667	0.00012	?
86	8.790	VV	0.0237	24.13330	3.069e-5	?
87	8.825	VV	0.0861	104.53807	0.00013	?
88	9.251	VV	0.0781	68.56741	8.720e-5	?
89	9.745	VV	0.0647	37.41939	4.759e-5	?
90	9.854	VV	0.0807	47.79101	6.078e-5	?
91	10.023	VV	0.0635	108.65395	0.00014	?
92	10.307	VV	0.0359	11.54008	1.468e-5	?
93	10.354	VV	0.0435	14.06195	1.788e-5	?
94	10.480	VB	0.0447	37.64386	4.787e-5	?
95	10.638	BV	0.0767	11.47311	1.459e-5	?
96	10.813	VV	0.0871	10.24921	1.303e-5	?

Uncalib. totals : 7.86274e7 99.9957

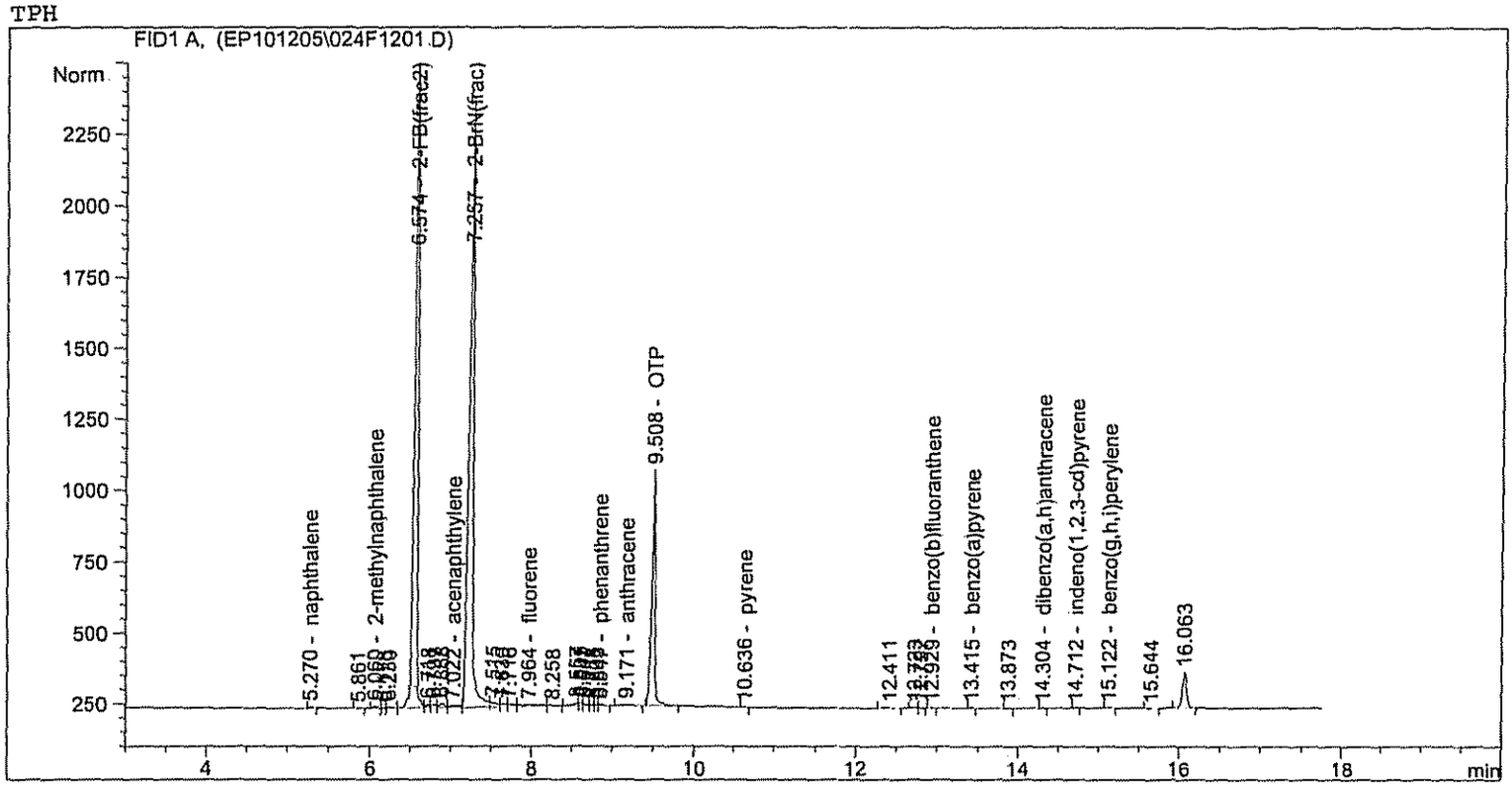
Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

==========
*** End of Report ***

a File C:\HPCHEM\1\DATA\EP101205\024F1201.D Sample Name: 167988 x1 msd R

```
==================================================================
Injection Date  : 10/12/2005 7:30:25 PM          Seq. Line :  12
Sample Name     : 167988 x1 msd R                 Location : Vial 24
Acq. Operator   : DCS                                 Inj :   1
Acq. Instrument : GC6                           Inj Volume : 10 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\101205A.S
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPH-R_F.M
Last changed    : 9/23/2005 10:16:24 AM by DCS
TPH
```




```
==================================================================
                      Area Percent Report
==================================================================

Sorted By             :      Signal
Calib. Data Modified  :      9/23/2005 9:33:55 AM
Multiplier            :      1.0000
Dilution              :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.270	PB	0.0349	14.01604	1.812e-5	naphthalene
2	6.060	PV	0.0392	16.33210	2.111e-5	2-methylnaphthalene
3	6.574	VV	0.0368	6987.20557	0.00903	2-FB(frac2)
4	7.022	VV	0.0899	49.27248	6.368e-5	acenaphthylene
5	7.257	VV	0.0446	7398.84814	0.00956	2-BrN(frac)
6	7.323		0.0000	0.00000	0.00000	acenaphthene
7	7.964	VV	0.1872	114.24576	0.00015	fluorene
8	8.847	VB	0.0447	11.40120	1.474e-5	phenanthrene
9	9.171	BB	0.0565	20.17631	2.608e-5	anthracene
10	9.508	BB	0.0386	2317.62549	0.00300	OTP
11	10.318		0.0000	0.00000	0.00000	fluoranthene
12	10.636	BP	0.0390	3.18871	4.121e-6	pyrene

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.428		0.0000	0.00000	0.00000	COD
14	11.985		0.0000	0.00000	0.00000	benzo(a)anthracene
15	12.022		0.0000	0.00000	0.00000	chrysene
16	12.929	BP	0.0348	3.13732	4.055e-6	benzo(b)fluoranthene
17	13.215		0.0000	0.00000	0.00000	benzo(k)fluoranthene
18	13.415	BP	0.0377	4.83790	6.253e-6	benzo(a)pyrene
19	14.304	BP	0.0358	4.38516	5.668e-6	dibenzo(a,h)anthracene
20	14.712	BP	0.0338	4.08848	5.284e-6	indeno(1,2,3-cd)pyrene
21	15.122	PP	0.0369	5.53816	7.158e-6	benzo(g,h,i)perylene

Totals : 1.69543e4 2.191e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.552	PV	0.0228	158.41783	0.00020	?
2	0.581	VV	0.0176	58.97368	7.622e-5	?
3	0.680	VV S	0.0269	6.38690e5	0.82548	?
4	1.735	VB S	0.9495	7.65635e7	98.95459	?
5	1.857	BV T	0.0661	1.91756e4	0.02478	?
6	1.903	VV T	0.0319	1.19986e4	0.01551	?
7	1.973	VV T	0.0372	1.37735e4	0.01780	?
8	2.015	VV T	0.0246	5698.12842	0.00736	?
9	2.048	VV T	0.0463	1.01423e4	0.01311	?
10	2.107	VV T	0.0285	8469.51758	0.01095	?
11	2.159	VV T	0.0345	9088.97168	0.01175	?
12	2.194	VV T	0.0227	5423.33154	0.00701	?
13	2.229	VV T	0.0370	8644.58789	0.01117	?
14	2.287	VV T	0.0290	6787.24707	0.00877	?
15	2.337	VV T	0.0448	9442.04590	0.01220	?
16	2.396	VV T	0.0357	7415.35937	0.00958	?
17	2.454	VV T	0.0386	6656.38232	0.00860	?
18	2.503	VV T	0.0297	6229.59082	0.00805	?
19	2.546	VV T	0.0295	5577.94629	0.00721	?
20	2.582	VV T	0.0579	1.19469e4	0.01544	?
21	2.700	VV T	0.0350	2824.78394	0.00365	?
22	2.742	VV T	0.0230	1534.71423	0.00198	?
23	2.771	VV T	0.0227	1074.76538	0.00139	?
24	2.805	VB T	0.0217	97.89056	0.00013	?
25	5.861	PP	0.0309	3.92154	5.068e-6	?
26	6.178	VV	0.0313	5.17755	6.692e-6	?
27	6.230	VP	0.0498	19.97549	2.582e-5	?
28	6.718	VV	0.0427	36.95520	4.776e-5	?
29	6.791	VV	0.0485	34.54008	4.464e-5	?
30	6.888	VV	0.0537	63.72988	8.237e-5	?
31	7.515	VV	0.0761	96.82388	0.00013	?
32	7.630	VV	0.0649	52.54736	6.791e-5	?
33	7.716	VV	0.0720	49.92351	6.452e-5	?
34	8.258	VB	0.1063	25.58214	3.306e-5	?
35	8.557	BV	0.0643	42.65467	5.513e-5	?
36	8.605	VV	0.0377	26.25326	3.393e-5	?
37	8.647	VB	0.0473	23.13111	2.990e-5	?
38	8.753	BV	0.0409	12.78682	1.653e-5	?
39	8.805	VV	0.0284	7.57305	9.788e-6	?
40	12.411	BB	0.0818	9.55518	1.235e-5	?
41	12.723	BB	0.0472	6.34713	8.203e-6	?
42	12.797	BB	0.0297	2.10877	2.725e-6	?
43	13.873	BB	0.0425	5.07497	6.559e-6	?
44	15.644	PB	0.0625	5.56160	7.188e-6	?
45	16.063	BB	0.0557	462.30817	0.00060	?

Uncalib. totals : 7.73554e7 99.9781

Results obtained with enhanced integrator!

:a File C:\HPCHEM\1\DATA\EP101205\024F1201.D Sample Name: 167988 x1 msd R

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

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*** End of Report ***

External Standard Report

ta File Name : C:\HPCHEM\1\DATA\EP100705\028F1801.D
erator : DCS
strument : GC6
mple Name : G349-122-1F x1 dup T
n Time Bar Code: 167984
quired on : 7 Oct 05 10:36:22 PM
port Created on: 10 Oct 2005 11:02:14 AM
ıst Recalib on : 20 Sep 2005 8:28:13 AM
ıltiplier : 1.0000

Page Number :
Vial Number : Vial 28
Injection Number : 1
Sequence Line : 18
Instrument Method: PROEPH.M
Analysis Method : EPHTK_F.M
Sample Amount : 10 µl
ISTD Amount :

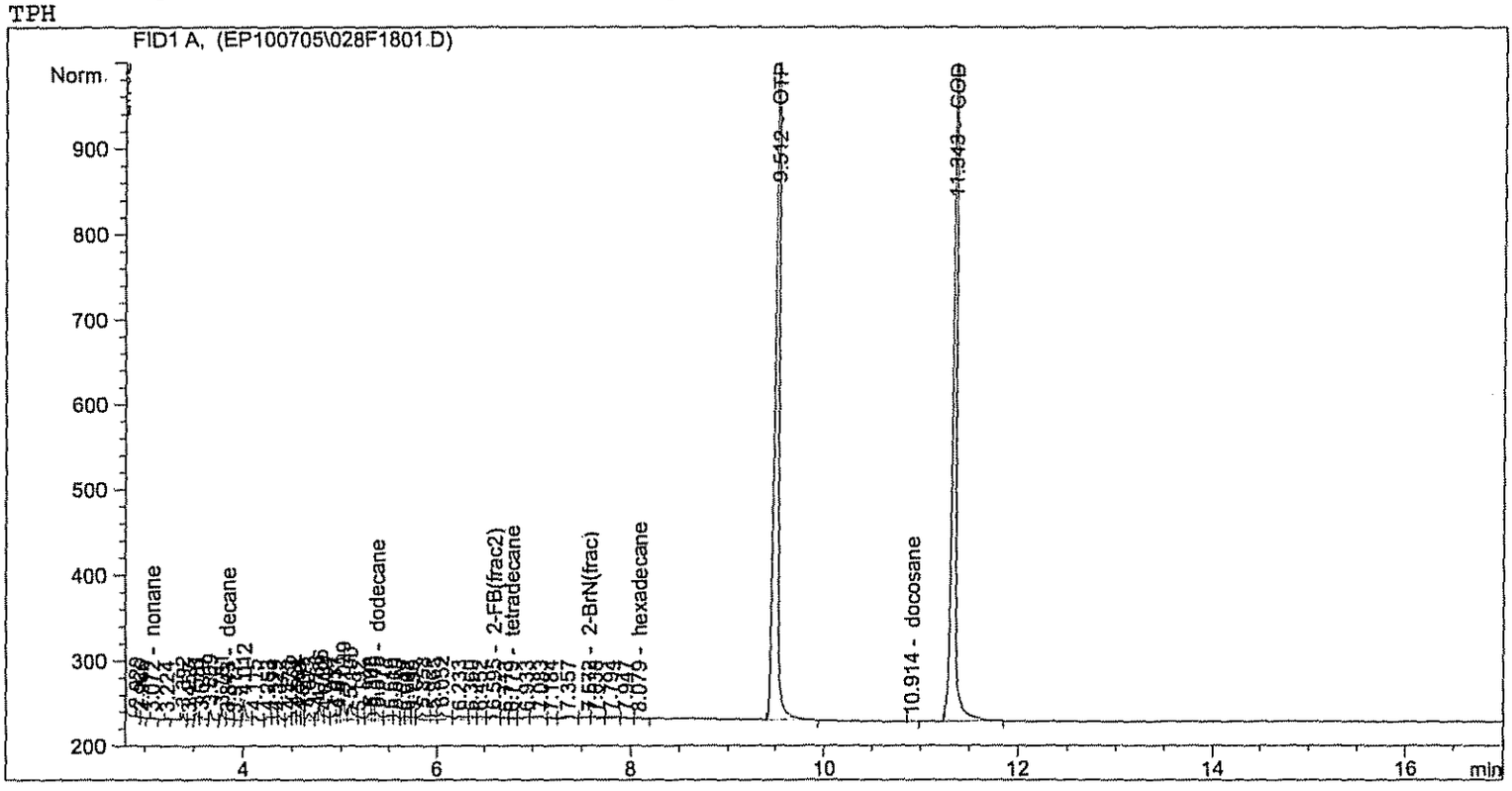
ig. 1 in C:\HPCHEM\1\DATA\EP100705\028F1801.D

et Time	Area	Type	Width	Ref#	ng	Name
3.072	1.97019	VP	0.02	1	2.507e-6	nonane
3.843	6.07713	VV	0.03	2	7.732e-6	decane
5.375	27.66692	VV	0.04	3	3.520e-5	dodecane
6.595	27.15509	VV	0.07	4	3.455e-5	2-FB(frac2)
6.779	8.20035	VV	0.05	5	1.043e-5	tetradecane
7.572	15.86996	VV	0.08	6	2.019e-5	2-BrN(frac)
8.079	9.85755	VB	0.09	7	1.254e-5	hexadecane
9.080	0.00000	XX	0.00	8	0.00000	octadecane
9.512	2866.63159	VB	0.03	9	0.00365	OTP
9.551	0.00000	XX	0.00	10	0.00000	nonadecane
10.154	0.00000	XX	0.00	11	0.00000	eicosane
10.914	2.11423	BB	0.03	12	2.690e-6	docosane
11.343	2539.98828	BB	0.04	13	0.00323	COD
11.779	0.00000	XX	0.00	14	0.00000	tetracosane
12.525	0.00000	XX	0.00	15	0.00000	hexacosane
13.242	0.00000	XX	0.00	16	0.00000	octacosane
13.914	0.00000	XX	0.00	17	0.00000	triacontane
16.100	0.00000	XX	0.00	18	0.00000	hexatriacontane
0.553	47.00827	PV	0.02	1	5.981e-5	* uncalibrated *
1.718	7.75748e7	VVS	0.67	2	98.69779	* uncalibrated *
1.813	8.57168e5	VVS	0.01	3	1.09057	* uncalibrated *
1.848	2.13112e4	PVT	0.05	4	0.02711	* uncalibrated *
1.902	9015.19336	VVS	0.02	5	0.01147	* uncalibrated *
1.953	9778.94629	VVS	0.03	6	0.01244	* uncalibrated *
1.987	1.03882e4	VVS	0.04	7	0.01322	* uncalibrated *
2.046	1.17016e4	VVS	0.04	8	0.01489	* uncalibrated *
2.097	8209.79590	VVS	0.03	9	0.01045	* uncalibrated *
2.134	6823.69873	VVS	0.03	10	0.00868	* uncalibrated *
2.161	4848.81445	VVS	0.02	11	0.00617	* uncalibrated *
2.193	6564.65430	VVS	0.03	12	0.00835	* uncalibrated *
2.240	8044.86133	VVS	0.04	13	0.01024	* uncalibrated *
2.293	9213.54492	VVS	0.04	14	0.01172	* uncalibrated *
2.334	8042.37500	VVS	0.04	15	0.01023	* uncalibrated *
2.378	5125.72998	VVS	0.03	16	0.00652	* uncalibrated *
2.424	6045.49854	VVS	0.03	17	0.00769	* uncalibrated *
2.455	5676.88574	VVS	0.03	18	0.00722	* uncalibrated *
2.501	5123.24219	VVS	0.02	19	0.00652	* uncalibrated *
2.529	4119.52002	VVS	0.02	20	0.00524	* uncalibrated *
2.560	1.25095e4	VVS	0.07	21	0.01592	* uncalibrated *
2.665	4036.57324	VVS	0.04	22	0.00514	* uncalibrated *
2.721	1878.29114	VVS	0.03	23	0.00239	* uncalibrated *
2.762	1459.30176	VBAS	0.03	24	0.00186	* uncalibrated *
2.920	3.82922	BV	0.01	25	4.872e-6	* uncalibrated *

File C:\HPCHEM\1\DATA\EP100705\028F1801.D Sample Name: 167984 x1 dup T

Injection Date	: 10/7/2005 10:36:22 PM	Seq. Line	: 18
Sample Name	: 167984 x1 dup T	Location	: Vial 28
Acq. Operator	: DCS	Inj	: 1
Acq. Instrument	: GC6	Inj Volume	: 10 µl
Acq. Method	: C:\HPCHEM\1\METHODS\PROEPH.M		
Last changed	: 5/12/2005 1:48:41 PM by CLP		
Analysis Method	: C:\HPCHEM\1\METHODS\EPHTK_F.M		
Last changed	: 10/6/2005 10:15:42 AM by DCS		

TPH



Area Percent Report

Sorted By	:	Signal
Calib. Data Modified	:	9/20/2005 8:28:13 AM
Multiplier	:	1.0000
Dilution	:	1.0000

Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	3.072	VP	0.0214	1.97019	2.507e-6	nonane
2	3.843	VV	0.0368	6.07713	7.732e-6	decane
3	5.375	VV	0.0443	27.66692	3.520e-5	dodecane
4	6.595	VV	0.0797	27.15509	3.455e-5	2-FB(frac2)
5	6.779	VV	0.0570	8.20035	1.043e-5	tetradecane
6	7.572	VV	0.0833	15.86996	2.019e-5	2-BrN(frac)
7	8.079	VB	0.0918	9.85755	1.254e-5	hexadecane
8	9.080		0.0000	0.00000	0.00000	octadecane
9	9.512	VB	0.0327	2866.63159	0.00365	OTP
10	9.551		0.0000	0.00000	0.00000	nonadecane
11	10.154		0.0000	0.00000	0.00000	eicosane
12	10.914	BB	0.0344	2.11423	2.690e-6	docosane
13	11.343	BB	0.0466	2539.98828	0.00323	COD

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
14	11.779		0.0000	0.00000	0.00000	tetracosane
15	12.525		0.0000	0.00000	0.00000	hexacosane
16	13.242		0.0000	0.00000	0.00000	octacosane
17	13.914		0.0000	0.00000	0.00000	triacontane
18	16.100		0.0000	0.00000	0.00000	hexatriacontane

Totals : 5505.53129 7.005e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.553	PV	0.0245	47.00827	5.981e-5	?
2	1.718	VV S	0.6757	7.75748e7	98.69779	?
3	1.813	VV S	0.0186	8.57168e5	1.09057	?
4	1.848	PV T	0.0581	2.13112e4	0.02711	?
5	1.902	VV S	0.0284	9015.19336	0.01147	?
6	1.953	VV S	0.0340	9778.94629	0.01244	?
7	1.987	VV S	0.0412	1.03882e4	0.01322	?
8	2.046	VV S	0.0434	1.17016e4	0.01489	?
9	2.097	VV S	0.0338	8209.79590	0.01045	?
10	2.134	VV S	0.0323	6823.69873	0.00868	?
11	2.161	VV S	0.0235	4848.81445	0.00617	?
12	2.193	VV S	0.0310	6564.65430	0.00835	?
13	2.240	VV S	0.0425	8044.86133	0.01024	?
14	2.293	VV S	0.0479	9213.54492	0.01172	?
15	2.334	VV S	0.0453	8042.37500	0.01023	?
16	2.378	VV S	0.0301	5125.72998	0.00652	?
17	2.424	VV S	0.0324	6045.49854	0.00769	?
18	2.455	VV S	0.0372	5676.88574	0.00722	?
19	2.501	VV S	0.0282	5123.24219	0.00652	?
20	2.529	VV S	0.0286	4119.52002	0.00524	?
21	2.560	VV S	0.0776	1.25095e4	0.01592	?
22	2.665	VV S	0.0475	4036.57324	0.00514	?
23	2.721	VV S	0.0340	1878.29114	0.00239	?
24	2.762	VBAS	0.0330	1459.30176	0.00186	?
25	2.920	BV	0.0179	3.82922	4.872e-6	?
26	2.966	VV	0.0216	1.66664	2.120e-6	?
27	3.224	VV	0.0287	4.57156	5.816e-6	?
28	3.392	VV	0.0212	10.70070	1.361e-5	?
29	3.457	VV	0.0254	3.47806	4.425e-6	?
30	3.531	VV	0.0279	16.86635	2.146e-5	?
31	3.579	VV	0.0276	8.22430	1.046e-5	?
32	3.669	VV	0.0244	17.74206	2.257e-5	?
33	3.781	VV	0.0243	18.11327	2.305e-5	?
34	3.917	VP	0.0283	2.03814	2.593e-6	?
35	4.012	VV	0.0271	44.49130	5.661e-5	?
36	4.115	VV	0.0408	13.70252	1.743e-5	?
37	4.253	VV	0.0386	12.15985	1.547e-5	?
38	4.329	VV	0.0441	11.03246	1.404e-5	?
39	4.372	VV	0.0313	9.68303	1.232e-5	?
40	4.472	VV	0.0375	13.23889	1.684e-5	?
41	4.522	VV	0.0287	18.98395	2.415e-5	?
42	4.564	VV	0.0256	10.88377	1.385e-5	?
43	4.604	VV	0.0282	4.62550	5.885e-6	?
44	4.673	VV	0.0433	25.86967	3.291e-5	?
45	4.756	VV	0.0218	13.93241	1.773e-5	?
46	4.786	VV	0.0269	30.69510	3.905e-5	?
47	4.840	VV	0.0379	12.72024	1.618e-5	?
48	4.937	VV	0.0335	17.99636	2.290e-5	?
49	4.973	VV	0.0267	11.94121	1.519e-5	?
50	5.029	VV	0.0319	57.24405	7.283e-5	?
51	5.100	VV	0.0425	57.13425	7.269e-5	?
52	5.192	VV	0.0444	13.18943	1.678e-5	?
53	5.308	VV	0.0398	20.84856	2.653e-5	?

ı File C:\HPCHEM\1\DATA\EP100705\028F1801.D Sample Name: 167984 x1 dup T

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
54	5.340	VV	0.0238	12.59237	1.602e-5	?
55	5.519	VV	0.0623	26.26168	3.341e-5	?
56	5.569	VV	0.0363	14.23878	1.812e-5	?
57	5.649	VV	0.0323	8.79148	1.119e-5	?
58	5.692	VV	0.0471	14.04600	1.787e-5	?
59	5.750	VV	0.0340	6.93049	8.818e-6	?
60	5.858	VV	0.0803	42.22168	5.372e-5	?
61	5.965	VV	0.0460	19.14951	2.436e-5	?
62	6.052	VV	0.0660	40.44546	5.146e-5	?
63	6.233	VV	0.1010	29.24475	3.721e-5	?
64	6.360	VV	0.0561	12.52475	1.594e-5	?
65	6.452	VV	0.0606	17.12055	2.178e-5	?
66	6.713	VV	0.0545	11.21823	1.427e-5	?
67	6.933	VV	0.0737	16.82174	2.140e-5	?
68	7.083	VV	0.1053	27.93503	3.554e-5	?
69	7.184	VV	0.0608	12.21090	1.554e-5	?
70	7.357	VV	0.1219	27.87142	3.546e-5	?
71	7.638	VB	0.0975	19.22587	2.446e-5	?
72	7.794	BV	0.1005	19.62561	2.497e-5	?
73	7.947	VV	0.0703	14.08324	1.792e-5	?

Uncalib. totals : 7.85928e7 99.9930

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

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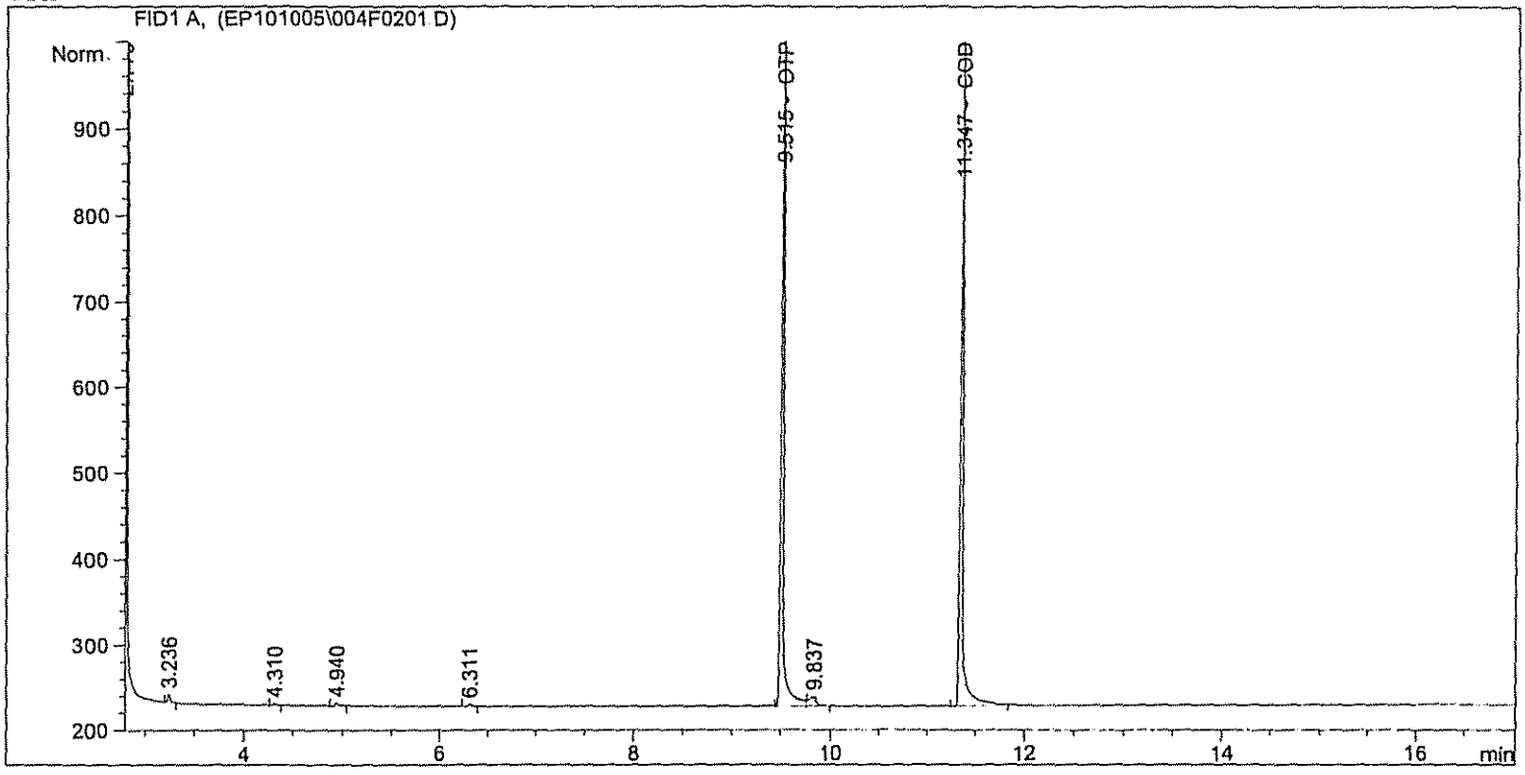
*** End of Report ***

File C:\HPCHEM\1\DATA\EP101005\004F0201.D Sample Name: pb3787 x1 T

Injection Date	: 10/10/2005 12:30:38 PM	Seq. Line :	2
Sample Name	: pb3787 x1 T	Location :	Vial 4
Acq. Operator	: DCS	Inj :	1
Acq. Instrument	: GC6	Inj Volume :	10 µl
Acq. Method	: C:\HPCHEM\1\METHODS\PROEPH.M		
Last changed	: 5/12/2005 1:48:41 PM by CLP		
Analysis Method	: C:\HPCHEM\1\METHODS\EPHTK_F.M		
Last changed	: 10/6/2005 10:15:42 AM by DCS		

TPH



Area Percent Report

Sorted By	:	Signal
Calib. Data Modified	:	9/20/2005 8:28:13 AM
Multiplier	:	1.0000
Dilution	:	1.0000

Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	3.072		0.0000	0.00000	0.00000	nonane
2	3.872		0.0000	0.00000	0.00000	decane
3	5.410		0.0000	0.00000	0.00000	dodecane
4	6.610		0.0000	0.00000	0.00000	2-FB(frac2)
5	6.787		0.0000	0.00000	0.00000	tetradecane
6	7.485		0.0000	0.00000	0.00000	2-BrN(frac)
7	8.095		0.0000	0.00000	0.00000	hexadecane
8	9.080		0.0000	0.00000	0.00000	octadecane
9	9.515	PV	0.0263	1493.48108	0.00412	OTP
10	9.551		0.0000	0.00000	0.00000	nonadecane
11	10.154		0.0000	0.00000	0.00000	eicosane
12	11.057		0.0000	0.00000	0.00000	docosane
13	11.347	PB	0.0332	1552.03735	0.00428	COD

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
14	11.779		0.0000	0.00000	0.00000	tetracosane
15	12.525		0.0000	0.00000	0.00000	hexacosane
16	13.242		0.0000	0.00000	0.00000	octacosane
17	13.914		0.0000	0.00000	0.00000	triacontane
18	16.100		0.0000	0.00000	0.00000	hexatriacontane

Totals : 3045.51843 8.406e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.513	PP	0.0138	1.32607	3.660e-6	?
2	0.549	VV	0.0113	25.86798	7.140e-5	?
3	0.576	VV	0.0125	90.15582	0.00025	?
4	1.161	VV S	0.4431	3.14524e7	86.80837	?
5	1.274	VV S	0.0399	2.68981e5	0.74238	?
6	1.313	VV S	0.0353	2.29421e5	0.63320	?
7	1.364	VV S	0.0312	1.96980e5	0.54366	?
8	1.414	VV S	0.0649	3.20197e5	0.88374	?
9	1.476	VV S	0.0428	2.35508e5	0.65000	?
10	1.552	VV S	0.0794	3.44726e5	0.95144	?
11	1.622	VV S	0.0339	1.95350e5	0.53917	?
12	1.680	VV S	0.0505	2.55244e5	0.70447	?
13	1.744	VV S	0.0414	2.06326e5	0.56946	?
14	1.806	VV S	0.0353	1.78998e5	0.49403	?
15	1.856	VV S	0.0385	1.58249e5	0.43676	?
16	1.897	VV S	0.0387	1.56551e5	0.43208	?
17	1.939	VV S	0.0266	1.10860e5	0.30597	?
18	1.985	VV S	0.0405	1.48251e5	0.40917	?
19	2.043	VV S	0.0422	1.72433e5	0.47591	?
20	2.110	VV S	0.0543	2.08770e5	0.57620	?
21	2.151	VV S	0.0220	8.13397e4	0.22450	?
22	2.188	VV S	0.0439	1.46143e5	0.40335	?
23	2.225	VV S	0.0323	1.04142e5	0.28743	?
24	2.272	VV S	0.0285	9.46920e4	0.26135	?
25	2.317	VV S	0.0389	1.17789e5	0.32510	?
26	2.366	VV S	0.0441	1.47137e5	0.40610	?
27	2.408	VV S	0.0215	5.99430e4	0.16544	?
28	2.451	VV S	0.0554	1.37238e5	0.37878	?
29	2.504	VV S	0.0329	1.07263e5	0.29604	?
30	2.551	VV S	0.0406	1.16317e5	0.32103	?
31	2.594	VV S	0.0287	1.00859e5	0.27837	?
32	2.631	VV S	0.0285	8.69547e4	0.23999	?
33	2.667	VV S	0.0357	4.67349e4	0.12899	?
34	2.716	VV S	0.0339	2.86892e4	0.07918	?
35	2.779	VBAS	0.0295	1.42491e4	0.03933	?
36	3.236	VP	0.0256	16.35478	4.514e-5	?
37	4.310	BB	0.0303	4.99496	1.379e-5	?
38	4.940	PP	0.0326	8.90872	2.459e-5	?
39	6.311	PB	0.0274	5.59798	1.545e-5	?
40	9.837	VB	0.0677	57.79176	0.00016	?

Uncalib. totals : 3.62289e7 99.9916

Results obtained with enhanced integrator!
2 Warnings or Errors :

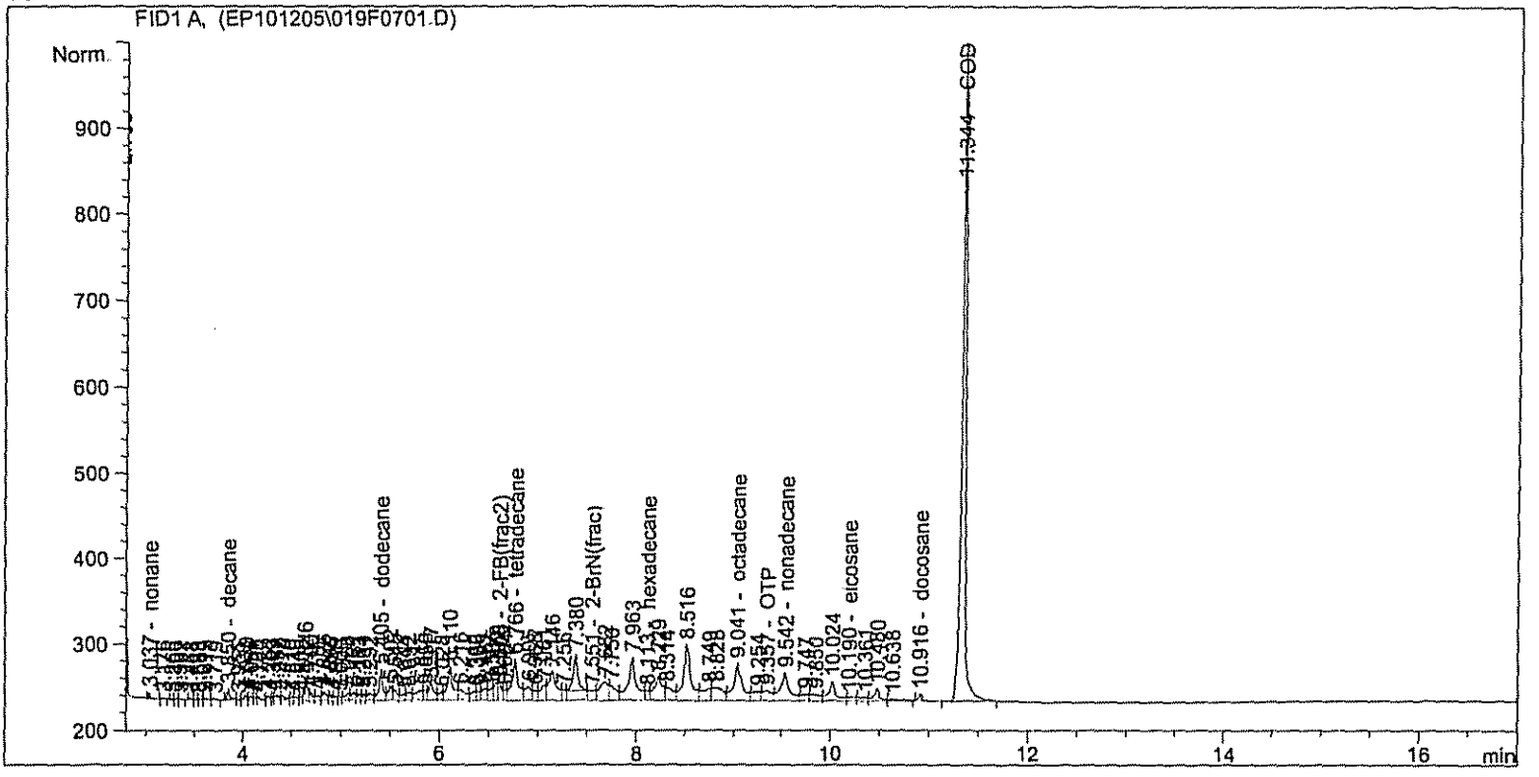
Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

==========
*** End of Report ***

1 File C:\HPCHEM\1\DATA\EP101205\019F0701.D Sample Name: lcs3787 x1 K

Injection Date	: 10/12/2005 5:15:18 PM	Seq. Line :	7
Sample Name	: lcs3787 x1 K	Location :	Vial 19
Acq. Operator	: DCS	Inj :	1
Acq. Instrument	: GC6	Inj Volume :	10 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\101205A.S		
Acq. Method	: C:\HPCHEM\1\METHODS\PROEPH.M		
Last changed	: 5/12/2005 1:48:41 PM by CLP		
Analysis Method	: C:\HPCHEM\1\METHODS\EPHTK_F.M		
Last changed	: 10/6/2005 10:15:42 AM by DCS		

TPH



Area Percent Report

Sorted By	:	Signal
Calib. Data Modified	:	9/20/2005 8:28:13 AM
Multiplier	:	1.0000
Dilution	:	1.0000

Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	3.037	VP	0.0194	8.61813	1.098e-5	nonane
2	3.850	VV	0.0297	25.04897	3.192e-5	decane
3	5.405	VV	0.0406	101.46439	0.00013	dodecane
4	6.608	VV	0.0343	52.76430	6.724e-5	2-FB(frac2)
5	6.766	VV	0.0590	212.28328	0.00027	tetradecane
6	7.551	VV	0.0649	61.36370	7.820e-5	2-BrN(frac)
7	8.113	VV	0.0433	36.59147	4.663e-5	hexadecane
8	9.041	VV	0.0808	271.60785	0.00035	octadecane
9	9.357	VV	0.0885	79.11594	0.00010	OTP
10	9.542	VV	0.0828	206.19208	0.00026	nonadecane
11	10.190	VV	0.0681	23.24063	2.962e-5	eicosane
12	10.916	BP	0.0467	22.65873	2.888e-5	docosane

a File C:\HPCHEM\1\DATA\EP101205\019F0701.D Sample Name: lcs3787 x1 K

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.344	BB	0.0386	2107.23364	0.00269	COD
14	11.779		0.0000	0.00000	0.00000	tetracosane
15	12.525		0.0000	0.00000	0.00000	hexacosane
16	13.242		0.0000	0.00000	0.00000	octacosane
17	13.914		0.0000	0.00000	0.00000	triacontane
18	16.100		0.0000	0.00000	0.00000	hexatriacontane

Totals : 3208.18312 4.088e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.546	PV	0.0216	42.80706	5.455e-5	?
2	0.580	VP	0.0202	13.11722	1.672e-5	?
3	0.692	VV S	0.0368	1.00020e6	1.27461	?
4	1.774	VV S	0.9519	7.64485e7	97.42308	?
5	1.831	VV S	0.0185	9.05806e5	1.15432	?
6	1.893	VV S	0.0326	8768.62695	0.01117	?
7	1.947	VV S	0.0581	1.37455e4	0.01752	?
8	2.034	VV S	0.0560	1.21302e4	0.01546	?
9	2.079	VV S	0.0417	8597.70605	0.01096	?
10	2.149	VV S	0.0418	8901.49121	0.01134	?
11	2.207	VV S	0.0504	8889.86914	0.01133	?
12	2.261	VV S	0.0617	8750.17480	0.01115	?
13	2.324	VV S	0.0407	5905.26025	0.00753	?
14	2.370	VV S	0.0360	5458.77637	0.00696	?
15	2.415	VV S	0.0374	5384.16260	0.00686	?
16	2.456	VV S	0.0330	4327.38037	0.00551	?
17	2.502	VV S	0.0525	6072.84473	0.00774	?
18	2.582	VV S	0.0568	6817.58447	0.00869	?
19	2.636	VV S	0.0361	3399.44775	0.00433	?
20	2.684	VV S	0.0264	1429.61243	0.00182	?
21	2.724	VV S	0.0262	635.84772	0.00081	?
22	2.758	VBAS	0.0178	100.59030	0.00013	?
23	3.176	VV	0.0221	1.59215	2.029e-6	?
24	3.265	VV	0.0192	1.41313	1.801e-6	?
25	3.306	VV	0.0235	2.72652	3.475e-6	?
26	3.362	VP	0.0259	2.14231	2.730e-6	?
27	3.468	VV	0.0238	2.49620	3.181e-6	?
28	3.533	VV	0.0276	3.06402	3.905e-6	?
29	3.558	VV	0.0213	2.71737	3.463e-6	?
30	3.613	VV	0.0287	4.71907	6.014e-6	?
31	3.719	VV	0.0409	4.59100	5.851e-6	?
32	3.955	VV	0.0319	2.61989	3.339e-6	?
33	4.030	VV	0.0275	11.92195	1.519e-5	?
34	4.087	VV	0.0297	8.82551	1.125e-5	?
35	4.128	VV	0.0266	5.14403	6.555e-6	?
36	4.160	VV	0.0417	9.27762	1.182e-5	?
37	4.262	VV	0.0273	9.90826	1.263e-5	?
38	4.309	VV	0.0192	4.63573	5.908e-6	?
39	4.358	VV	0.0408	14.64460	1.866e-5	?
40	4.416	VV	0.0478	17.53672	2.235e-5	?
41	4.510	VV	0.0276	6.37899	8.129e-6	?
42	4.545	VV	0.0375	10.07192	1.284e-5	?
43	4.606	VV	0.0228	5.84812	7.453e-6	?
44	4.646	VV	0.0300	50.88503	6.485e-5	?
45	4.700	VV	0.0296	19.46829	2.481e-5	?
46	4.775	VV	0.0404	15.97266	2.035e-5	?
47	4.826	VV	0.0348	24.72475	3.151e-5	?
48	4.896	VV	0.0275	12.80153	1.631e-5	?
49	4.940	VV	0.0366	11.74905	1.497e-5	?
50	5.000	VV	0.0310	8.76985	1.118e-5	?
51	5.068	VV	0.0420	23.95483	3.053e-5	?
52	5.131	VV	0.0409	29.24267	3.727e-5	?

a File C:\HPCHEM\1\DATA\EP101205\019F0701.D Sample Name: lcs3787 x1 K

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
53	5.183	VV	0.0323	17.57298	2.239e-5	?
54	5.231	VV	0.0325	16.87009	2.150e-5	?
55	5.292	VV	0.0456	27.76182	3.538e-5	?
56	5.502	VV	0.0397	45.89030	5.848e-5	?
57	5.545	VV	0.0403	33.15708	4.225e-5	?
58	5.644	VV	0.0424	24.92053	3.176e-5	?
59	5.692	VV	0.0488	32.16125	4.099e-5	?
60	5.815	VV	0.0644	59.98114	7.644e-5	?
61	5.856	VV	0.0298	25.65915	3.270e-5	?
62	5.917	VV	0.0536	75.64653	9.640e-5	?
63	6.028	VV	0.0422	29.26804	3.730e-5	?
64	6.110	VV	0.0546	157.23373	0.00020	?
65	6.216	VV	0.0729	63.08412	8.039e-5	?
66	6.362	VV	0.0459	36.52854	4.655e-5	?
67	6.386	VV	0.0365	25.91324	3.302e-5	?
68	6.461	VV	0.0506	46.81654	5.966e-5	?
69	6.535	VV	0.0447	47.86042	6.099e-5	?
70	6.579	VV	0.0322	47.50392	6.054e-5	?
71	6.664	VV	0.0308	26.33660	3.356e-5	?
72	6.905	VV	0.0651	74.95921	9.553e-5	?
73	6.968	VV	0.0441	38.89695	4.957e-5	?
74	7.061	VV	0.0520	71.43536	9.103e-5	?
75	7.146	VV	0.0764	192.83217	0.00025	?
76	7.256	VV	0.0334	31.84231	4.058e-5	?
77	7.380	VV	0.0663	274.09067	0.00035	?
78	7.682	VV	0.0806	127.95575	0.00016	?
79	7.750	VV	0.0664	86.38894	0.00011	?
80	7.963	VV	0.0753	281.72562	0.00036	?
81	8.229	VV	0.0772	161.75822	0.00021	?
82	8.314	VV	0.0703	81.96921	0.00010	?
83	8.516	VV	0.0771	350.10934	0.00045	?
84	8.749	VV	0.0814	91.84143	0.00012	?
85	8.828	VV	0.0965	121.00169	0.00015	?
86	9.254	VV	0.0779	66.62344	8.490e-5	?
87	9.747	VV	0.0712	41.18909	5.249e-5	?
88	9.850	VV	0.0879	54.02893	6.885e-5	?
89	10.024	VV	0.0716	119.01788	0.00015	?
90	10.361	VV	0.0830	26.49766	3.377e-5	?
91	10.480	VV	0.0580	54.66728	6.967e-5	?
92	10.638	VB	0.1466	23.31357	2.971e-5	?

Uncalib. totals : 7.84674e7 99.9959

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

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*** End of Report ***

File C:\HPCHEM\1\DATA\EP101205\020F0801.D Sample Name: lcs3787 x1 R

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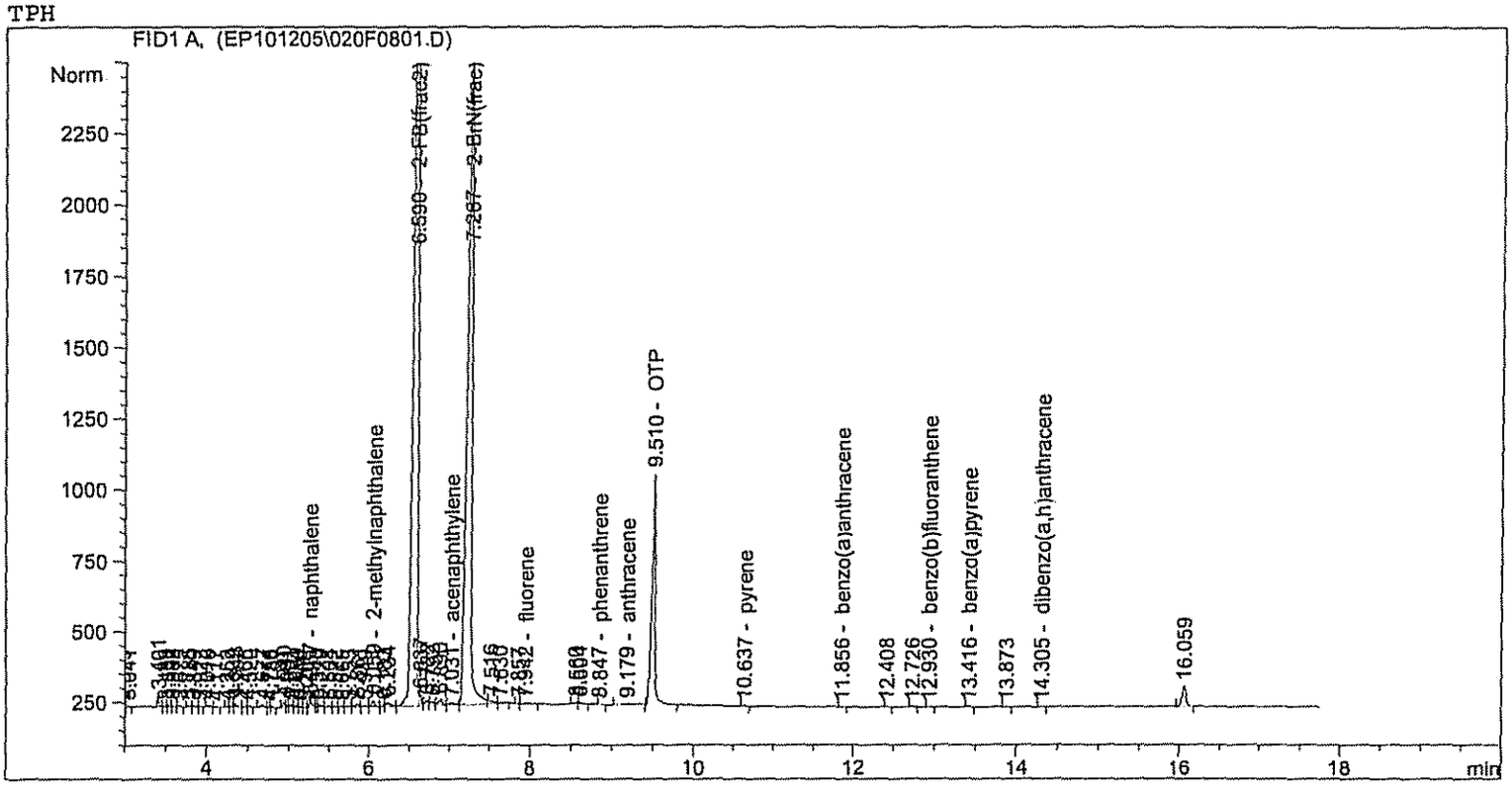
Injection Date	: 10/12/2005 5:42:04 PM	Seq. Line :	8
Sample Name	: lcs3787 x1 R	Location :	Vial 20
Acq. Operator	: DCS	Inj :	1
Acq. Instrument	: GC6	Inj Volume :	10 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\101205A.S		
Acq. Method	: C:\HPCHEM\1\METHODS\PROEPH.M		
Last changed	: 5/12/2005 1:48:41 PM by CLP		
Analysis Method	: C:\HPCHEM\1\METHODS\EPH-R_F.M		
Last changed	: 9/23/2005 10:16:24 AM by DCS		

TPH



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Area Percent Report

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Sorted By	:	Signal
Calib. Data Modified	:	9/23/2005 9:33:55 AM
Multiplier	:	1.0000
Dilution	:	1.0000

Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.267	VV	0.0324	58.80693	7.440e-5	naphthalene
2	6.059	VV	0.0394	57.73262	7.304e-5	2-methylnaphthalene
3	6.590	VV	0.0461	1.27758e4	0.01616	2-FB(frac2)
4	7.031	VP	0.0800	53.04988	6.711e-5	acenaphthylene
5	7.267	VV	0.0481	9790.26563	0.01239	2-BrN(frac)
6	7.323		0.0000	0.00000	0.00000	acenaphthene
7	7.942	VB	0.0915	22.43875	2.839e-5	fluorene
8	8.847	BP	0.0297	2.99032	3.783e-6	phenanthrene
9	9.179	PP	0.1031	26.06894	3.298e-5	anthracene
10	9.510	VB	0.0375	2281.93652	0.00289	OTP
11	10.318		0.0000	0.00000	0.00000	fluoranthene
12	10.637	BP	0.0392	4.89474	6.192e-6	pyrene

:a File C:\HPCHEM\1\DATA\EP101205\020F0801.D Sample Name: lcs3787 x1 F

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.428		0.0000	0.00000	0.00000	COD
14	11.856	BP	0.0350	2.34143	2.962e-6	benzo(a)anthracene
15	12.022		0.0000	0.00000	0.00000	chrysene
16	12.930	BP	0.0357	2.94017	3.720e-6	benzo(b)fluoranthene
17	13.215		0.0000	0.00000	0.00000	benzo(k)fluoranthene
18	13.416	BP	0.0391	3.33714	4.222e-6	benzo(a)pyrene
19	14.305	BB	0.0341	2.55031	3.226e-6	dibenzo(a,h)anthracene
20	14.640		0.0000	0.00000	0.00000	indeno(1,2,3-cd)pyrene
21	14.817		0.0000	0.00000	0.00000	benzo(g,h,i)perylene

Totals : 2.50851e4 3.173e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.550	PV	0.0208	153.95537	0.00019	?
2	0.582	VV	0.0119	64.39730	8.147e-5	?
3	0.676	VV S	0.0262	5.13767e5	0.64996	?
4	1.792	VV S	0.6760	7.74306e7	97.95616	?
5	1.841	VV S	0.0196	9.42999e5	1.19297	?
6	1.904	VV S	0.0263	8284.21484	0.01048	?
7	1.940	VV S	0.0363	9246.92871	0.01170	?
8	1.985	VV S	0.0520	1.29659e4	0.01640	?
9	2.052	VV S	0.0379	9587.45898	0.01213	?
10	2.102	VV S	0.0546	1.16592e4	0.01475	?
11	2.158	VV S	0.0339	7560.42578	0.00956	?
12	2.187	VV S	0.0486	1.05543e4	0.01335	?
13	2.254	VV S	0.0440	7806.23584	0.00988	?
14	2.333	VV S	0.0511	8872.81445	0.01122	?
15	2.380	VV S	0.0523	7969.19336	0.01008	?
16	2.427	VV S	0.0389	6763.31982	0.00856	?
17	2.498	VV S	0.0511	8090.60352	0.01024	?
18	2.550	VV S	0.0623	8766.41895	0.01109	?
19	2.612	VV S	0.0432	5936.13184	0.00751	?
20	2.658	VV S	0.0434	3963.06616	0.00501	?
21	2.706	VV S	0.0311	1964.61194	0.00249	?
22	2.745	VV S	0.0276	1569.62329	0.00199	?
23	2.777	VB S	0.0200	768.58807	0.00097	?
24	2.810	BB T	0.0160	40.59214	5.135e-5	?
25	2.979	BV	0.0252	4.53575	5.738e-6	?
26	3.041	VB	0.0195	4.02496	5.092e-6	?
27	3.401	BV	0.0183	50.55873	6.396e-5	?
28	3.488	VV	0.0268	7.58322	9.593e-6	?
29	3.532	VV	0.0278	10.10159	1.278e-5	?
30	3.585	VB	0.0234	4.21037	5.326e-6	?
31	3.675	BB	0.0229	2.87168	3.633e-6	?
32	3.785	BB	0.0202	10.24247	1.296e-5	?
33	3.849	BV	0.0297	7.65978	9.690e-6	?
34	3.923	VB	0.0213	2.31642	2.930e-6	?
35	4.016	BB	0.0281	10.98848	1.390e-5	?
36	4.117	BB	0.0279	3.89728	4.930e-6	?
37	4.252	BV	0.0224	5.73646	7.257e-6	?
38	4.309	VV	0.0290	10.45859	1.323e-5	?
39	4.348	VB	0.0239	20.82583	2.635e-5	?
40	4.466	BV	0.0334	8.81709	1.115e-5	?
41	4.520	VB	0.0227	8.14457	1.030e-5	?
42	4.677	PV	0.0443	22.46513	2.842e-5	?
43	4.756	VV	0.0211	7.46419	9.443e-6	?
44	4.786	VB	0.0233	8.52835	1.079e-5	?
45	4.940	BV	0.0252	29.88217	3.780e-5	?
46	4.981	VV	0.0255	11.86574	1.501e-5	?
47	5.031	VV	0.0345	19.96829	2.526e-5	?
48	5.099	VV	0.0297	20.76499	2.627e-5	?
49	5.140	VV	0.0335	7.52074	9.514e-6	?

:a File C:\HPCHEM\1\DATA\EP101205\020F0801.D Sample Name: lcs3787 x1 F

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
50	5.206	VP	0.0239	2.96552	3.752e-6	?
51	5.343	VV	0.0230	8.45747	1.070e-5	?
52	5.379	VV	0.0377	16.94861	2.144e-5	?
53	5.504	VV	0.0344	16.35932	2.070e-5	?
54	5.572	VV	0.0280	9.31381	1.178e-5	?
55	5.665	VV	0.0404	6.36101	8.047e-6	?
56	5.753	VP	0.0382	7.59216	9.605e-6	?
57	5.861	VV	0.0390	34.52261	4.367e-5	?
58	5.949	VV	0.0523	14.21893	1.799e-5	?
59	6.183	VV	0.0318	16.13812	2.042e-5	?
60	6.234	VP	0.0509	60.36235	7.636e-5	?
61	6.637	VV	0.0222	64.50140	8.160e-5	?
62	6.722	VV	0.0422	57.40654	7.262e-5	?
63	6.792	VV	0.0484	46.88898	5.932e-5	?
64	6.890	VV	0.0505	87.29858	0.00011	?
65	7.516	VV	0.0719	68.17164	8.624e-5	?
66	7.630	VB	0.0655	25.10277	3.176e-5	?
67	7.857	BV	0.0270	2.18490	2.764e-6	?
68	8.560	BV	0.0410	13.61138	1.722e-5	?
69	8.604	VB	0.0529	18.59997	2.353e-5	?
70	12.408	BP	0.0368	2.96022	3.745e-6	?
71	12.726	BP	0.0311	2.35874	2.984e-6	?
72	13.873	BB	0.0372	3.67012	4.643e-6	?
73	16.059	BB	0.0523	249.46379	0.00032	?

Uncalib. totals : 7.90211e7 99.9683

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

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*** End of Report ***

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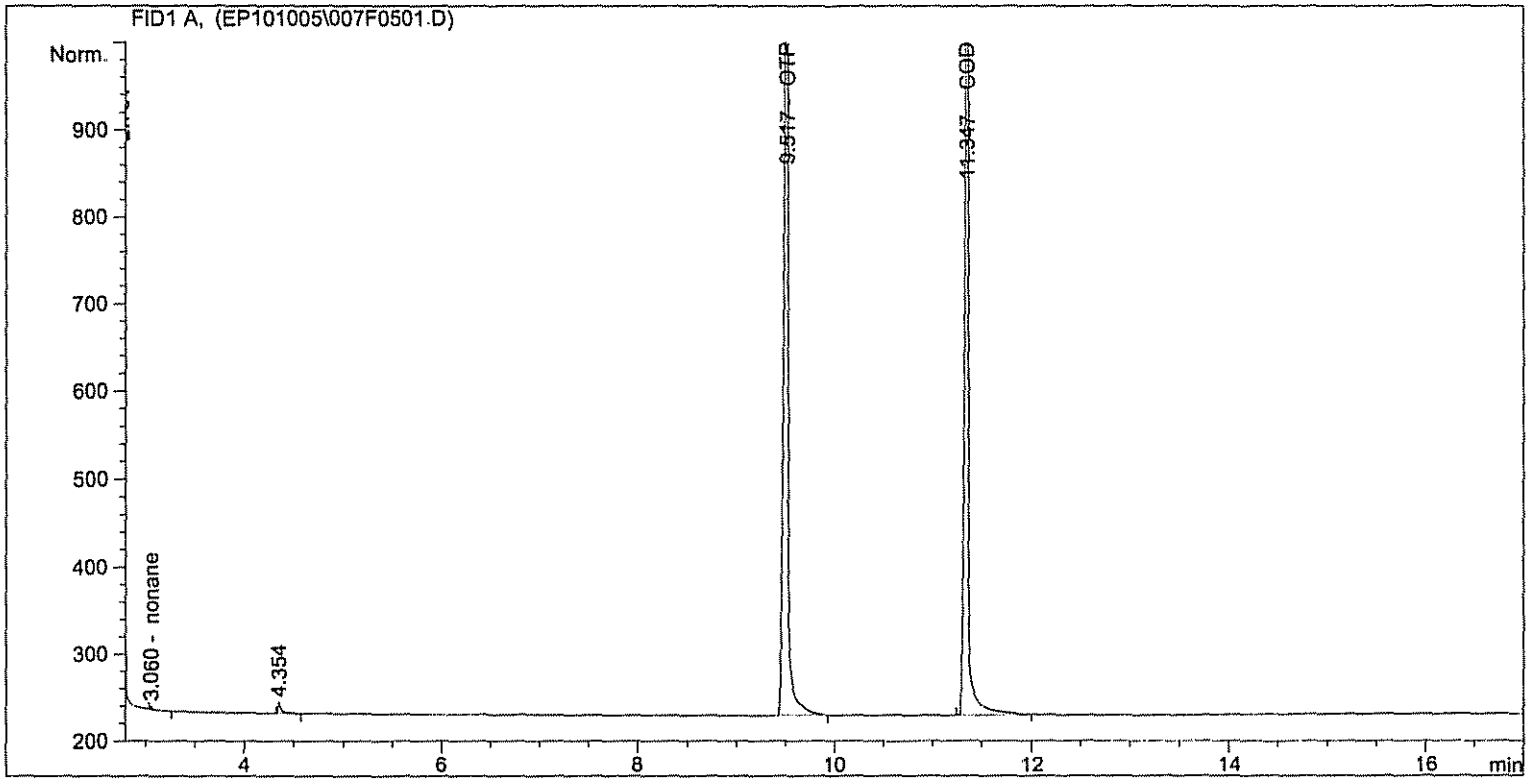
==================================================================
Injection Date  : 10/10/2005 1:51:25 PM          Seq. Line :   5
Sample Name     : pb3791 x1 T                     Location : Vial 7
Acq. Operator   : DCS                                 Inj :   1
Acq. Instrument : GC6                           Inj Volume : 10 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\101005.S
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed    : 10/6/2005 10:15:42 AM by DCS
TPH
```




```
==================================================================
                        Area Percent Report
==================================================================

Sorted By              :      Signal
Calib. Data Modified   :      9/20/2005 8:28:13 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,

Peak RetTime  Type   Width     Area      Area    Name
  #   [min]          [min]    [pA*s]       %
----|-------|------|-------|----------|--------|--------------------
   1   3.060 BP     0.0242    6.71564 9.542e-6 nonane
   2   3.872        0.0000    0.00000  0.00000 decane
   3   5.410        0.0000    0.00000  0.00000 dodecane
   4   6.610        0.0000    0.00000  0.00000 2-FB(frac2)
   5   6.787        0.0000    0.00000  0.00000 tetradecane
   6   7.485        0.0000    0.00000  0.00000 2-BrN(frac)
   7   8.095        0.0000    0.00000  0.00000 hexadecane
   8   9.080        0.0000    0.00000  0.00000 octadecane
   9   9.517 BB     0.0347 3342.90747  0.00475 OTP
  10   9.551        0.0000    0.00000  0.00000 nonadecane
  11  10.154        0.0000    0.00000  0.00000 eicosane
  12  11.057        0.0000    0.00000  0.00000 docosane
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.347	BB	0.0422	2875.67334	0.00409	COD
14	11.779		0.0000	0.00000	0.00000	tetracosane
15	12.525		0.0000	0.00000	0.00000	hexacosane
16	13.242		0.0000	0.00000	0.00000	octacosane
17	13.914		0.0000	0.00000	0.00000	triacontane
18	16.100		0.0000	0.00000	0.00000	hexatriacontane

Totals : 6225.29645 8.845e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.587	VV S	0.0102	4075.60156	0.00579	?
2	0.614	VV S	9.94e-3	3.75494e4	0.05335	?
3	0.649	VV S	0.0206	2.27460e5	0.32318	?
4	1.721	VV S	0.8729	6.91844e7	98.29734	?
5	1.767	VP S	0.0173	7.73292e5	1.09869	?
6	1.803	VV S	0.0727	2.49339e4	0.03543	?
7	1.880	VV S	0.0270	6704.82666	0.00953	?
8	1.909	VV S	0.0343	8164.72168	0.01160	?
9	1.962	VV S	0.0440	9808.56543	0.01394	?
10	2.007	VV S	0.0338	8643.13086	0.01228	?
11	2.057	VV S	0.0528	1.04481e4	0.01484	?
12	2.099	VV S	0.0266	4891.78809	0.00695	?
13	2.135	VV S	0.0401	7569.97852	0.01076	?
14	2.178	VV S	0.0344	6243.30176	0.00887	?
15	2.209	VV S	0.0204	3065.34155	0.00436	?
16	2.246	VV S	0.0731	1.13528e4	0.01613	?
17	2.328	VV S	0.0412	7016.82861	0.00997	?
18	2.367	VV S	0.0650	9451.69629	0.01343	?
19	2.441	VV S	0.0220	3309.44092	0.00470	?
20	2.467	VV S	0.0274	3649.38745	0.00519	?
21	2.499	VV S	0.0337	4706.09570	0.00669	?
22	2.549	VV S	0.0418	5569.57861	0.00791	?
23	2.589	VV S	0.0721	9281.09668	0.01319	?
24	2.676	VV S	0.0266	1956.63599	0.00278	?
25	2.720	VV S	0.0351	1724.80542	0.00245	?
26	2.761	VBAS	0.0369	1252.53320	0.00178	?
27	4.354	VP	0.0365	32.39145	4.602e-5	?

Uncalib. totals : 7.03766e7 99.9912

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

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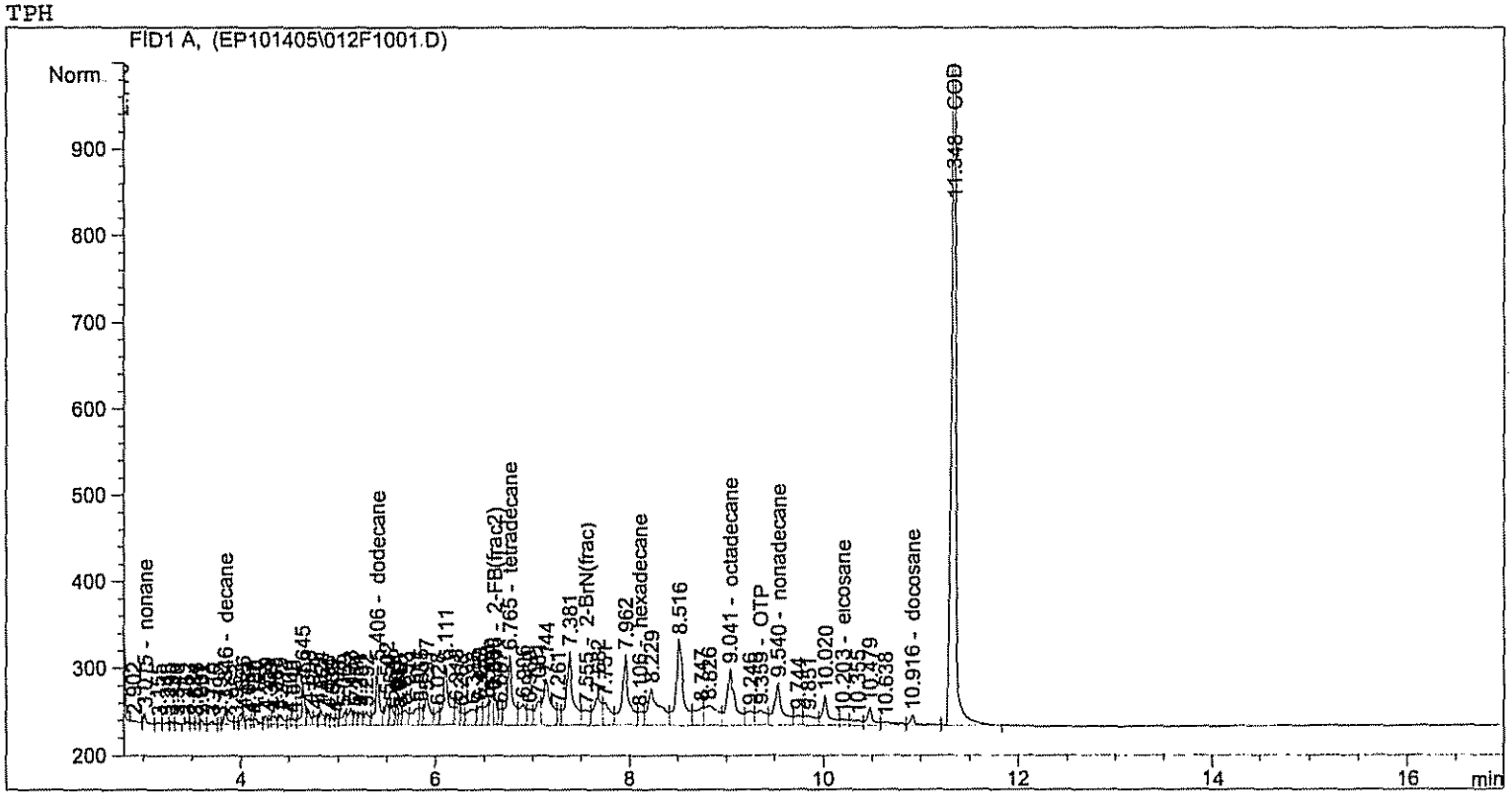
*** End of Report ***

```
==================================================================
Injection Date  : 10/14/2005 2:07:46 PM          Seq. Line :  10
Sample Name     : lcs3791 x1 K                    Location : Vial 12
Acq. Operator   : DCS                                 Inj :   1
Acq. Instrument : GC6                           Inj Volume : 10 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\101405.S
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed    : 10/6/2005 10:15:42 AM by DCS
TPH
```




```
==================================================================
                        Area Percent Report
==================================================================

Sorted By              :      Signal
Calib. Data Modified   :      9/20/2005 8:28:13 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,

Peak RetTime  Type   Width     Area      Area    Name
  #   [min]          [min]    [pA*s]      %
----|-------|------|-------|----------|--------|--------------------
   1   3.015 VP     0.0231   17.40989 2.317e-5 nonane
   2   3.846 VV     0.0332   52.82787 7.031e-5 decane
   3   5.406 VV     0.0382  192.17648  0.00026 dodecane
   4   6.608 VV     0.0334   79.27503  0.00011 2-FB(frac2)
   5   6.765 VV     0.0560  335.56320  0.00045 tetradecane
   6   7.555 VV     0.0684   98.73974  0.00013 2-BrN(frac)
   7   8.106 VV     0.0490   63.33289 8.429e-5 hexadecane
   8   9.041 VV     0.0770  388.92194  0.00052 octadecane
   9   9.359 VV     0.0959  129.50879  0.00017 OTP
  10   9.540 VV     0.0772  292.73666  0.00039 nonadecane
  11  10.203 VV     0.0708   35.01486 4.660e-5 eicosane
  12  10.916 VV     0.0601   46.99875 6.255e-5 docosane
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.348	VB	0.0447	3016.80273	0.00402	COD
14	11.779		0.0000	0.00000	0.00000	tetracosane
15	12.525		0.0000	0.00000	0.00000	hexacosane
16	13.242		0.0000	0.00000	0.00000	octacosane
17	13.914		0.0000	0.00000	0.00000	triacontane
18	16.100		0.0000	0.00000	0.00000	hexatriacontane

Totals : 4749.30884 6.321e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.545	PV	0.0219	68.72032	9.146e-5	?
2	0.581	VV	0.0227	34.81871	4.634e-5	?
3	1.739	VV S	0.9228	7.40685e7	98.58242	?
4	1.778	VV S	0.0191	9.10533e5	1.21189	?
5	1.873	VV S	0.0374	1.16189e4	0.01546	?
6	1.912	VV S	0.0466	1.23705e4	0.01646	?
7	1.958	VV S	0.1389	3.05007e4	0.04060	?
8	2.116	VV S	0.0256	5859.50293	0.00780	?
9	2.155	VV S	0.0414	9497.76758	0.01264	?
10	2.211	VV S	0.0456	9094.00586	0.01210	?
11	2.260	VV S	0.0378	8405.34961	0.01119	?
12	2.310	VV S	0.0420	7987.74414	0.01063	?
13	2.365	VV S	0.0473	8967.99512	0.01194	?
14	2.435	VV S	0.0419	7764.30518	0.01033	?
15	2.483	VV S	0.0461	7363.79199	0.00980	?
16	2.529	VV S	0.0341	5699.10303	0.00759	?
17	2.581	VV S	0.0386	6204.59570	0.00826	?
18	2.618	VV S	0.0472	6648.12988	0.00885	?
19	2.679	VV S	0.0326	2597.45508	0.00346	?
20	2.734	VV S	0.0383	2138.02832	0.00285	?
21	2.776	VBAS	0.0293	1190.07739	0.00158	?
22	2.902	VP	0.0207	2.18302	2.906e-6	?
23	3.155	VV	0.0246	3.97887	5.296e-6	?
24	3.245	VV	0.0264	5.38773	7.171e-6	?
25	3.290	VV	0.0249	6.03093	8.027e-6	?
26	3.346	VV	0.0274	5.27351	7.019e-6	?
27	3.452	VV	0.0227	6.02375	8.017e-6	?
28	3.524	VV	0.0294	6.36876	8.477e-6	?
29	3.547	VV	0.0257	6.79526	9.044e-6	?
30	3.602	VV	0.0293	11.09225	1.476e-5	?
31	3.710	VV	0.0457	13.30787	1.771e-5	?
32	3.792	VV	0.0248	2.90805	3.871e-6	?
33	3.953	VV	0.0328	7.21679	9.605e-6	?
34	4.026	VV	0.0303	27.09487	3.606e-5	?
35	4.084	VV	0.0324	18.65276	2.483e-5	?
36	4.127	VV	0.0250	10.02296	1.334e-5	?
37	4.160	VV	0.0427	21.43605	2.853e-5	?
38	4.259	VV	0.0290	21.62336	2.878e-5	?
39	4.309	VV	0.0200	9.16714	1.220e-5	?
40	4.358	VV	0.0415	31.30218	4.166e-5	?
41	4.415	VV	0.0481	38.25628	5.092e-5	?
42	4.509	VV	0.0278	13.86461	1.845e-5	?
43	4.546	VV	0.0402	22.91389	3.050e-5	?
44	4.645	VV	0.0340	112.72312	0.00015	?
45	4.698	VV	0.0325	42.83283	5.701e-5	?
46	4.774	VV	0.0378	30.52542	4.063e-5	?
47	4.824	VV	0.0372	49.73983	6.620e-5	?
48	4.896	VV	0.0275	26.02490	3.464e-5	?
49	4.939	VV	0.0373	24.98195	3.325e-5	?
50	4.998	VV	0.0323	19.11587	2.544e-5	?
51	5.069	VV	0.0432	46.83436	6.233e-5	?
52	5.133	VV	0.0426	59.29824	7.892e-5	?

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
53	5.184	VV	0.0336	34.33989	4.571e-5	?
54	5.231	VV	0.0338	34.45661	4.586e-5	?
55	5.292	VV	0.0489	54.04068	7.193e-5	?
56	5.502	VV	0.0383	77.35011	0.00010	?
57	5.546	VV	0.0417	59.68317	7.944e-5	?
58	5.607	VV	0.0245	21.31803	2.837e-5	?
59	5.645	VV	0.0299	29.10186	3.873e-5	?
60	5.693	VV	0.0502	63.08913	8.397e-5	?
61	5.811	VV	0.0662	101.10803	0.00013	?
62	5.855	VV	0.0333	50.16522	6.677e-5	?
63	5.917	VV	0.0570	132.34164	0.00018	?
64	6.028	VV	0.0433	54.40736	7.241e-5	?
65	6.111	VV	0.0543	265.87469	0.00035	?
66	6.218	VV	0.0476	71.20910	9.478e-5	?
67	6.268	VV	0.0404	37.46836	4.987e-5	?
68	6.388	VV	0.0789	114.20851	0.00015	?
69	6.459	VV	0.0501	74.78684	9.954e-5	?
70	6.533	VV	0.0418	80.44872	0.00011	?
71	6.580	VV	0.0360	83.60813	0.00011	?
72	6.667	VV	0.0310	42.79018	5.695e-5	?
73	6.906	VV	0.0625	116.51348	0.00016	?
74	6.969	VV	0.0440	67.51003	8.985e-5	?
75	7.061	VV	0.0583	110.78303	0.00015	?
76	7.144	VV	0.0758	299.12436	0.00040	?
77	7.261	VV	0.0316	42.83779	5.702e-5	?
78	7.381	VV	0.0632	413.30054	0.00055	?
79	7.682	VV	0.0754	189.50081	0.00025	?
80	7.751	VV	0.0688	139.69479	0.00019	?
81	7.962	VV	0.0658	407.61536	0.00054	?
82	8.229	VV	0.1071	361.53491	0.00048	?
83	8.516	VV	0.0692	524.73895	0.00070	?
84	8.747	VV	0.0784	132.19139	0.00018	?
85	8.826	VV	0.1140	210.12151	0.00028	?
86	9.246	VV	0.0695	91.47929	0.00012	?
87	9.744	VV	0.0716	61.30712	8.160e-5	?
88	9.851	VV	0.1069	98.17759	0.00013	?
89	10.020	VV	0.0635	160.36252	0.00021	?
90	10.355	VV	0.0939	48.58189	6.466e-5	?
91	10.479	VV	0.0512	79.06265	0.00011	?
92	10.638	VV	0.1518	43.40859	5.778e-5	?

Uncalib. totals : 7.51288e7 99.9937

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

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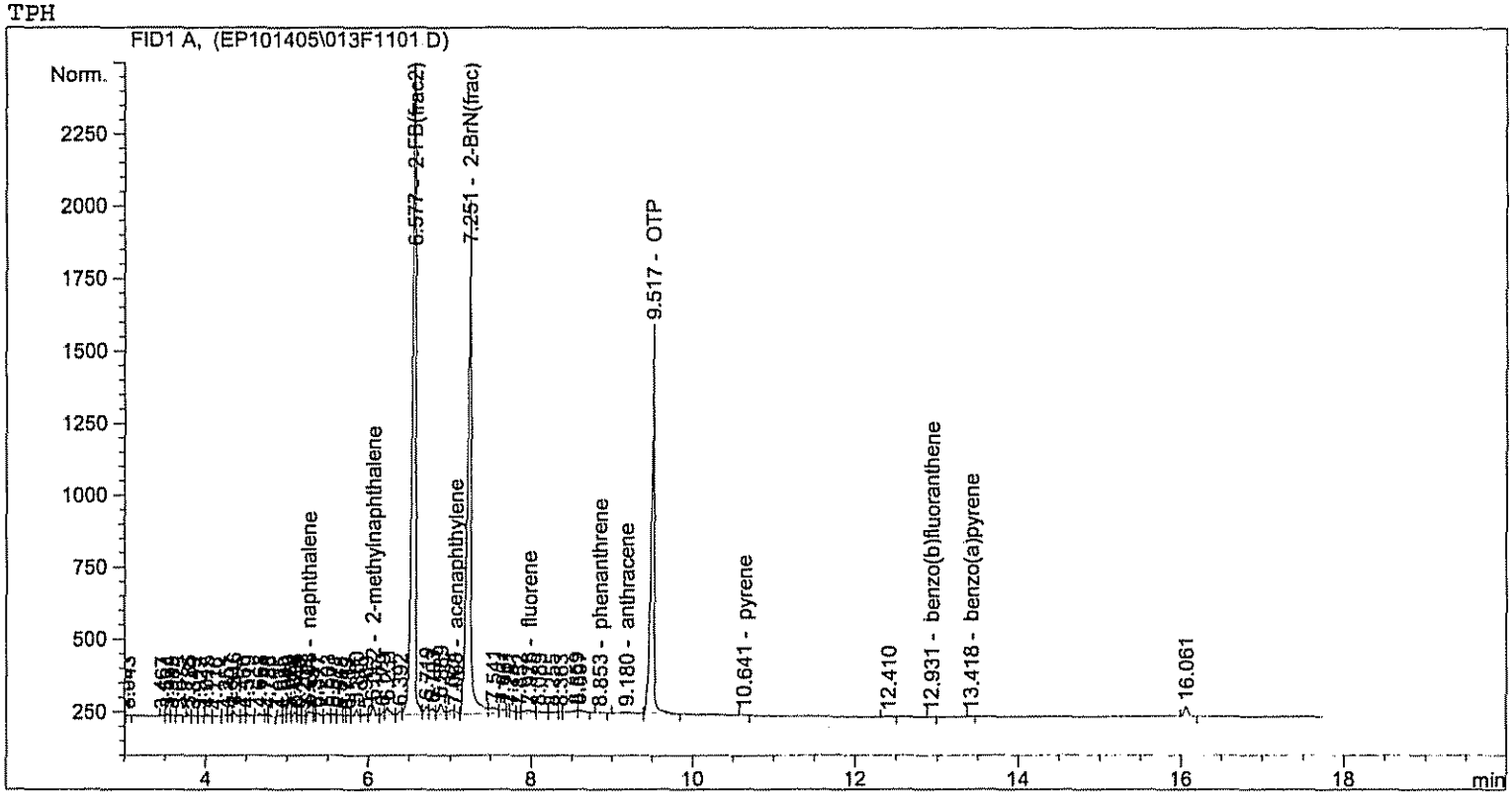
*** End of Report ***

```
==================================================================
Injection Date   : 10/14/2005 2:35:20 PM          Seq. Line :  11
Sample Name      : lcs3791 x1 R                    Location : Vial 13
Acq. Operator    : DCS                                 Inj :   1
Acq. Instrument  : GC6                           Inj Volume : 10 µl
Sequence File    : C:\HPCHEM\1\SEQUENCE\101405.S
Acq. Method      : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed     : 5/12/2005 1:48:41 PM by CLP
Analysis Method  : C:\HPCHEM\1\METHODS\EPH-R_F.M
Last changed     : 9/23/2005 10:16:24 AM by DCS
TPH
```




```
==================================================================
                        Area Percent Report
==================================================================

Sorted By              :      Signal
Calib. Data Modified   :      9/23/2005 9:33:55 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.268	VV	0.0401	51.32896	6.338e-5	naphthalene
2	6.062	VV	0.0421	91.22297	0.00011	2-methylnaphthalene
3	6.577	VV	0.0342	7066.64014	0.00873	2-FB(frac2)
4	7.068	VV	0.0363	29.18883	3.604e-5	acenaphthylene
5	7.251	VV	0.0425	5471.32129	0.00676	2-BrN(frac)
6	7.323		0.0000	0.00000	0.00000	acenaphthene
7	7.976	VV	0.1066	85.41928	0.00011	fluorene
8	8.853	PP	0.0236	2.82740	3.491e-6	phenanthrene
9	9.180	PV	0.0833	27.98339	3.456e-5	anthracene
10	9.517	VB	0.0347	3421.02832	0.00422	OTP
11	10.318		0.0000	0.00000	0.00000	fluoranthene
12	10.641	BP	0.0372	5.42589	6.700e-6	pyrene

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.428		0.0000	0.00000	0.00000	COD
14	11.985		0.0000	0.00000	0.00000	benzo(a)anthracene
15	12.022		0.0000	0.00000	0.00000	chrysene
16	12.931	BB	0.0359	2.57022	3.174e-6	benzo(b)fluoranthene
17	13.215		0.0000	0.00000	0.00000	benzo(k)fluoranthene
18	13.418	BP	0.0313	2.34874	2.900e-6	benzo(a)pyrene
19	14.607		0.0000	0.00000	0.00000	dibenzo(a,h)anthracene
20	14.640		0.0000	0.00000	0.00000	indeno(1,2,3-cd)pyrene
21	14.817		0.0000	0.00000	0.00000	benzo(g,h,i)perylene

Totals : 1.62573e4 2.008e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.538	PV	0.0237	78.39693	9.681e-5	?
2	0.582	VV	7.71e-3	448.22275	0.00055	?
3	1.807	VV S	0.9843	7.98268e7	98.57621	?
4	1.847	VV S	0.0198	9.78146e5	1.20789	?
5	1.898	VV S	0.0401	1.43540e4	0.01773	?
6	1.942	VV S	0.0336	9781.91602	0.01208	?
7	1.994	VV S	0.0533	1.51079e4	0.01866	?
8	2.056	VV S	0.0420	1.16097e4	0.01434	?
9	2.093	VV S	0.0271	7595.36572	0.00938	?
10	2.143	VV S	0.0472	1.24569e4	0.01538	?
11	2.204	VV S	0.0416	1.00625e4	0.01243	?
12	2.251	VV S	0.0421	1.04480e4	0.01290	?
13	2.301	VV S	0.0264	6130.02637	0.00757	?
14	2.326	VV S	0.0621	1.13017e4	0.01396	?
15	2.415	VV S	0.0461	9557.72559	0.01180	?
16	2.505	VV S	0.0711	1.33870e4	0.01653	?
17	2.550	VV S	0.0360	6214.00146	0.00767	?
18	2.603	VV S	0.0422	7063.98193	0.00872	?
19	2.648	VV S	0.0412	5136.80908	0.00634	?
20	2.693	VV S	0.0340	2842.55835	0.00351	?
21	2.730	VV S	0.0302	1856.25732	0.00229	?
22	2.766	VB S	0.0293	1526.74500	0.00189	?
23	2.802	BB T	0.0209	82.25564	0.00010	?
24	2.981	BB	0.0184	4.10988	5.075e-6	?
25	3.043	BB	0.0189	3.72067	4.595e-6	?
26	3.467	PV	0.0238	2.97160	3.670e-6	?
27	3.534	VV	0.0275	11.49301	1.419e-5	?
28	3.585	VB	0.0248	6.27580	7.750e-6	?
29	3.675	BB	0.0223	3.79719	4.689e-6	?
30	3.785	PV	0.0218	15.82270	1.954e-5	?
31	3.849	VV	0.0332	8.56932	1.058e-5	?
32	3.923	VB	0.0256	4.27098	5.274e-6	?
33	4.015	BB	0.0261	15.27333	1.886e-5	?
34	4.116	BP	0.0350	5.87331	7.253e-6	?
35	4.251	BV	0.0246	8.96713	1.107e-5	?
36	4.307	VV	0.0313	17.58503	2.172e-5	?
37	4.346	VV	0.0255	32.59890	4.026e-5	?
38	4.466	VV	0.0368	15.70169	1.939e-5	?
39	4.519	VB	0.0283	18.23812	2.252e-5	?
40	4.668	BV	0.0461	28.86372	3.564e-5	?
41	4.756	VV	0.0222	11.32525	1.399e-5	?
42	4.785	VB	0.0260	14.31763	1.768e-5	?
43	4.925	PV	0.0243	11.13141	1.375e-5	?
44	4.980	VV	0.0275	13.38006	1.652e-5	?
45	5.029	VV	0.0373	31.11172	3.842e-5	?
46	5.098	VV	0.0300	33.48668	4.135e-5	?
47	5.140	VV	0.0344	12.19946	1.506e-5	?
48	5.204	VP	0.0252	5.18076	6.398e-6	?
49	5.341	VV	0.0234	12.65619	1.563e-5	?

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
50	5.377	VV	0.0367	25.96461	3.206e-5	?
51	5.503	VV	0.0329	25.44814	3.143e-5	?
52	5.571	VV	0.0281	15.45052	1.908e-5	?
53	5.668	VV	0.0405	10.62514	1.312e-5	?
54	5.719	VV	0.0267	4.91599	6.071e-6	?
55	5.752	VP	0.0242	7.92883	9.791e-6	?
56	5.860	VV	0.0380	56.56880	6.986e-5	?
57	5.969	VV	0.0539	23.10051	2.853e-5	?
58	6.179	VV	0.0288	24.39310	3.012e-5	?
59	6.231	VV	0.0465	97.15916	0.00012	?
60	6.392	VV	0.0427	36.30706	4.483e-5	?
61	6.719	VV	0.0402	83.17185	0.00010	?
62	6.793	VV	0.0464	75.85847	9.368e-5	?
63	6.889	VV	0.0512	143.67212	0.00018	?
64	7.024	VV	0.0597	68.20650	8.423e-5	?
65	7.541	VV	0.0799	123.16457	0.00015	?
66	7.661	VV	0.0594	60.13105	7.425e-5	?
67	7.711	VV	0.0273	21.92701	2.708e-5	?
68	7.751	VV	0.0494	39.06384	4.824e-5	?
69	7.852	VV	0.0418	20.70317	2.557e-5	?
70	8.089	VV	0.0669	31.35290	3.872e-5	?
71	8.255	VV	0.0519	10.44019	1.289e-5	?
72	8.363	VV	0.0223	2.32748	2.874e-6	?
73	8.559	VV	0.0590	29.21879	3.608e-5	?
74	8.597	VP	0.0546	26.03215	3.215e-5	?
75	12.410	PP	0.0540	5.08353	6.278e-6	?
76	16.061	BB	0.0514	123.48470	0.00015	?

Uncalib. totals : 8.09636e7 99.9799

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

==========
*** End of Report ***

External Standard Report

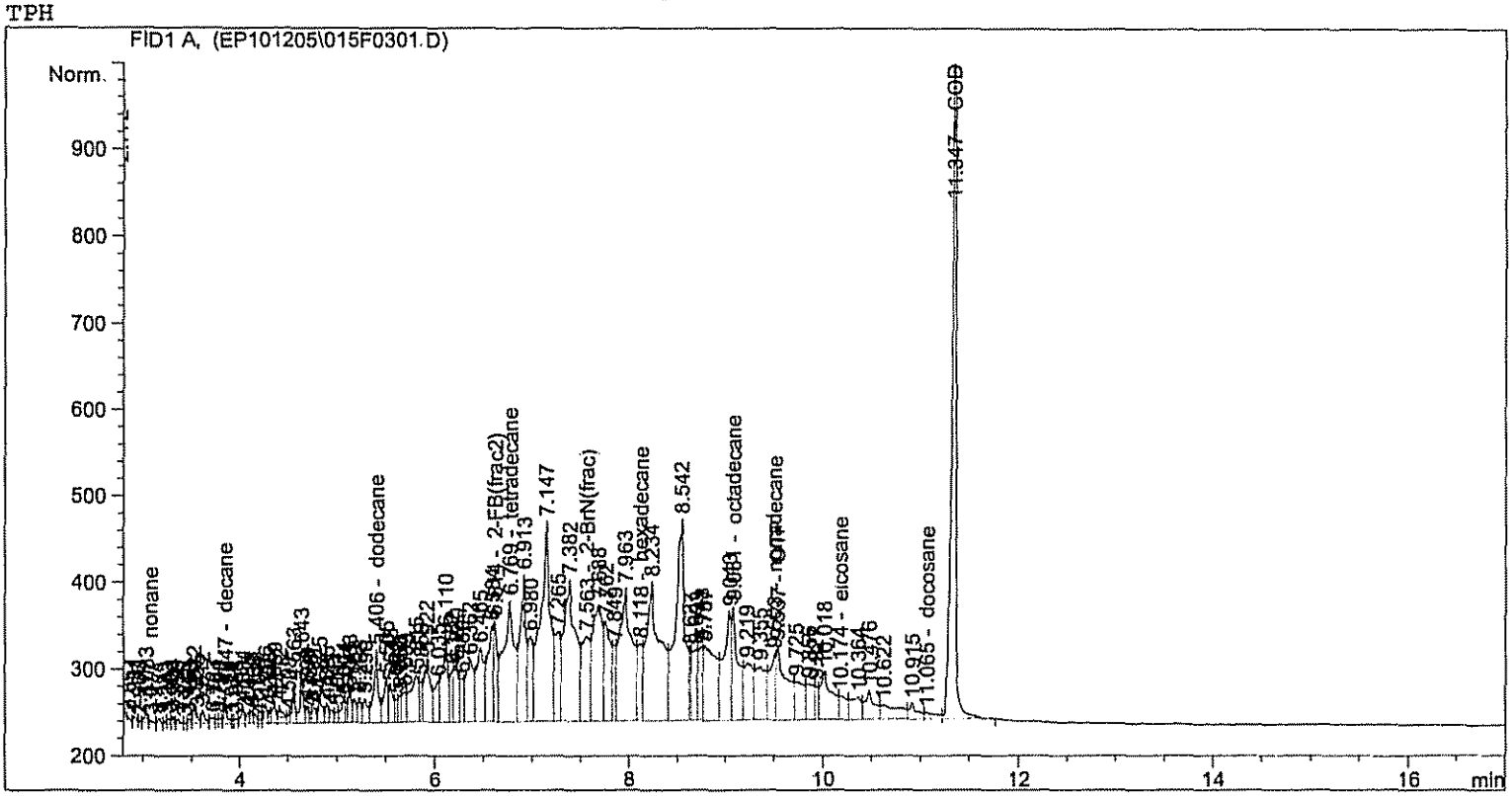
ata File Name : C:\HPCHEM\1\DATA\EP101205\015F0301.D
perator : DCS
nstrument : GC6
ample Name : G161-2182-6J x1 ms K
un Time Bar Code: 168469
cquired on : 12 Oct 05 3:28:20 PM
eport Created on: 13 Oct 2005 9:02:28 AM
ast Recalib on : 20 Sep 2005 8:28:13 AM
ultiplier : 1.0000

Page Number :
Vial Number : Vial 15
Injection Number : 1
Sequence Line : 3
Instrument Method: PROEPH.M
Analysis Method : EPHTK_F.M
Sample Amount : 10 µl
ISTD Amount :

ig. 1 in C:\HPCHEM\1\DATA\EP101205\015F0301.D

Ret Time	Area	Type	Width	Ref#	ng	Name
3.077	6.16260	VP	0.02	1	7.872e-6	nonane
3.847	60.69349	VV	0.02	2	7.752e-5	decane
5.406	273.12018	VV	0.04	3	0.00035	dodecane
6.614	276.94754	VV	0.03	4	0.00035	2-FB(frac2)
6.769	1100.62891	VV	0.10	5	0.00141	tetradecane
7.563	613.47699	VV	0.07	6	0.00078	2-BrN(frac)
8.118	336.60049	VV	0.04	7	0.00043	hexadecane
9.081	582.35150	VV	0.05	8	0.00074	octadecane
9.503	331.30725	VV	0.05	9	0.00042	nonadecane
9.537	648.16864	VV	0.09	10	0.00083	OTP
10.174	149.30997	VV	0.06	11	0.00019	eicosane
11.065	63.92330	VV	0.10	12	8.165e-5	docosane
11.347	2575.32349	VP	0.04	13	0.00329	COD
11.779	0.00000	XX	0.00	14	0.00000	tetracosane
12.525	0.00000	XX	0.00	15	0.00000	hexacosane
13.242	0.00000	XX	0.00	16	0.00000	octacosane
13.914	0.00000	XX	0.00	17	0.00000	triacontane
16.100	0.00000	XX	0.00	18	0.00000	hexatriacontane
0.549	7.58018	PV	0.01	1	9.682e-6	* uncalibrated *
0.582	4.71387	VV	0.01	2	6.021e-6	* uncalibrated *
1.776	7.71942e7	VVS	0.95	3	98.60143	* uncalibrated *
1.824	9.18750e5	VVS	0.01	4	1.17353	* uncalibrated *
1.873	1.16753e4	VVS	0.03	5	0.01491	* uncalibrated *
1.925	1.11258e4	VVS	0.04	6	0.01421	* uncalibrated *
1.972	1.08235e4	VVS	0.03	7	0.01383	* uncalibrated *
2.003	6214.81104	VVS	0.02	8	0.00794	* uncalibrated *
2.042	1.16186e4	VVS	0.04	9	0.01484	* uncalibrated *
2.112	1.23638e4	VVS	0.04	10	0.01579	* uncalibrated *
2.145	9444.61035	VVS	0.04	11	0.01206	* uncalibrated *
2.192	1.96339e4	VVS	0.10	12	0.02508	* uncalibrated *
2.323	7474.63281	VVS	0.04	13	0.00955	* uncalibrated *
2.377	7959.30029	VVS	0.03	14	0.01017	* uncalibrated *
2.407	3786.24609	VVS	0.02	15	0.00484	* uncalibrated *
2.440	6490.67041	VVS	0.03	16	0.00829	* uncalibrated *
2.483	4651.11865	VVS	0.02	17	0.00594	* uncalibrated *
2.513	3748.83350	VVS	0.02	18	0.00479	* uncalibrated *
2.543	3920.48999	VVS	0.02	19	0.00501	* uncalibrated *
2.580	5790.36621	VVS	0.04	20	0.00740	* uncalibrated *
2.620	8383.55273	VVS	0.06	21	0.01071	* uncalibrated *
2.737	2507.12720	VVS	0.04	22	0.00320	* uncalibrated *
2.772	709.71448	VBAS	0.02	23	0.00091	* uncalibrated *
2.857	3.67456	BP	0.01	24	4.694e-6	* uncalibrated *
2.911	12.21558	VV	0.02	25	1.560e-5	* uncalibrated *

```
==================================================================
Injection Date  : 10/12/2005 3:28:20 PM          Seq. Line :   3
Sample Name     : 168469 x1 ms K                  Location : Vial 15
Acq. Operator   : DCS                                 Inj :   1
Acq. Instrument : GC6                           Inj Volume : 10 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\101205A.S
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed    : 10/6/2005 10:15:42 AM by DCS
TPH
```




```
==================================================================
                        Area Percent Report
==================================================================

Sorted By              :      Signal
Calib. Data Modified   :      9/20/2005 8:28:13 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	3.077	VP	0.0284	6.16260	7.872e-6	nonane
2	3.847	VV	0.0256	60.69349	7.752e-5	decane
3	5.406	VV	0.0442	273.12018	0.00035	dodecane
4	6.614	VV	0.0320	276.94754	0.00035	2-FB(frac2)
5	6.769	VV	0.1005	1100.62891	0.00141	tetradecane
6	7.563	VV	0.0788	613.47699	0.00078	2-BrN(frac)
7	8.118	VV	0.0471	336.60049	0.00043	hexadecane
8	9.081	VV	0.0577	582.35150	0.00074	octadecane
9	9.503	VV	0.0550	331.30725	0.00042	nonadecane
10	9.537	VV	0.0949	648.16864	0.00083	OTP
11	10.174	VV	0.0669	149.30997	0.00019	eicosane
12	11.065	VV	0.1026	63.92330	8.165e-5	docosane

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.347	VP	0.0439	2575.32349	0.00329	COD
14	11.779		0.0000	0.00000	0.00000	tetracosane
15	12.525		0.0000	0.00000	0.00000	hexacosane
16	13.242		0.0000	0.00000	0.00000	octacosane
17	13.914		0.0000	0.00000	0.00000	triacontane
18	16.100		0.0000	0.00000	0.00000	hexatriacontane

Totals : 7018.01434 8.964e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.549	PV	0.0197	7.58018	9.682e-6	?
2	0.582	VV	0.0127	4.71387	6.021e-6	?
3	1.776	VV S	0.9571	7.71942e7	98.60143	?
4	1.824	VV S	0.0190	9.18750e5	1.17353	?
5	1.873	VV S	0.0378	1.16753e4	0.01491	?
6	1.925	VV S	0.0403	1.11258e4	0.01421	?
7	1.972	VV S	0.0374	1.08235e4	0.01383	?
8	2.003	VV S	0.0267	6214.81104	0.00794	?
9	2.042	VV S	0.0443	1.16186e4	0.01484	?
10	2.112	VV S	0.0457	1.23638e4	0.01579	?
11	2.145	VV S	0.0440	9444.61035	0.01206	?
12	2.192	VV S	0.1099	1.96339e4	0.02508	?
13	2.323	VV S	0.0434	7474.63281	0.00955	?
14	2.377	VV S	0.0386	7959.30029	0.01017	?
15	2.407	VV S	0.0245	3786.24609	0.00484	?
16	2.440	VV S	0.0394	6490.67041	0.00829	?
17	2.483	VV S	0.0283	4651.11865	0.00594	?
18	2.513	VV S	0.0226	3748.83350	0.00479	?
19	2.543	VV S	0.0284	3920.48999	0.00501	?
20	2.580	VV S	0.0425	5790.36621	0.00740	?
21	2.620	VV S	0.0604	8383.55273	0.01071	?
22	2.737	VV S	0.0490	2507.12720	0.00320	?
23	2.772	VBAS	0.0205	709.71448	0.00091	?
24	2.857	BP	0.0163	3.67456	4.694e-6	?
25	2.911	VV	0.0256	12.21558	1.560e-5	?
26	2.966	VP	0.0210	2.66112	3.399e-6	?
27	3.033	VV	0.0209	29.23805	3.735e-5	?
28	3.171	VV	0.0266	11.51181	1.470e-5	?
29	3.232	VV	0.0189	5.06481	6.469e-6	?
30	3.263	VV	0.0240	9.27880	1.185e-5	?
31	3.304	VV	0.0206	11.08888	1.416e-5	?
32	3.358	VV	0.0302	11.03539	1.410e-5	?
33	3.425	VP	0.0180	1.36833	1.748e-6	?
34	3.469	VV	0.0313	10.01308	1.279e-5	?
35	3.522	VV	0.0237	36.34922	4.643e-5	?
36	3.555	VV	0.0222	18.09718	2.312e-5	?
37	3.612	VV	0.0342	33.24809	4.247e-5	?
38	3.723	VV	0.0451	19.85043	2.536e-5	?
39	3.764	VV	0.0221	7.10143	9.071e-6	?
40	3.796	VV	0.0256	9.31718	1.190e-5	?
41	3.924	VV	0.0189	4.85355	6.200e-6	?
42	3.958	VV	0.0325	12.25749	1.566e-5	?
43	4.031	VV	0.0316	42.00431	5.365e-5	?
44	4.085	VV	0.0324	24.38308	3.114e-5	?
45	4.118	VV	0.0266	27.80601	3.552e-5	?
46	4.156	VV	0.0273	21.61892	2.761e-5	?
47	4.197	VV	0.0278	7.91378	1.011e-5	?
48	4.266	VV	0.0310	45.63676	5.829e-5	?
49	4.308	VV	0.0192	18.73923	2.394e-5	?
50	4.359	VV	0.0343	65.00630	8.303e-5	?
51	4.412	VV	0.0441	66.19106	8.455e-5	?
52	4.508	VV	0.0242	15.67937	2.003e-5	?

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
53	4.563	VV	0.0276	84.10499	0.00011	?
54	4.643	VV	0.0302	142.14081	0.00018	?
55	4.699	VV	0.0260	36.72395	4.691e-5	?
56	4.729	VV	0.0193	16.63853	2.125e-5	?
57	4.772	VV	0.0368	46.26728	5.910e-5	?
58	4.825	VV	0.0352	84.25541	0.00011	?
59	4.895	VV	0.0323	47.50320	6.068e-5	?
60	4.941	VV	0.0380	37.18252	4.749e-5	?
61	5.001	VV	0.0316	31.48027	4.021e-5	?
62	5.071	VV	0.0403	78.66276	0.00010	?
63	5.094	VV	0.0181	32.14507	4.106e-5	?
64	5.133	VV	0.0340	82.34877	0.00011	?
65	5.182	VV	0.0333	63.71873	8.139e-5	?
66	5.233	VV	0.0343	67.49527	8.621e-5	?
67	5.290	VV	0.0479	97.64700	0.00012	?
68	5.505	VV	0.0407	153.07549	0.00020	?
69	5.548	VV	0.0436	126.85776	0.00016	?
70	5.609	VV	0.0292	55.64693	7.108e-5	?
71	5.650	VV	0.0285	65.65694	8.386e-5	?
72	5.699	VV	0.0404	106.73358	0.00014	?
73	5.815	VV	0.0774	321.99799	0.00041	?
74	5.859	VV	0.0259	88.56693	0.00011	?
75	5.922	VV	0.0600	332.98499	0.00043	?
76	6.035	VV	0.0466	163.08180	0.00021	?
77	6.110	VV	0.0532	413.28934	0.00053	?
78	6.182	VV	0.0287	128.31752	0.00016	?
79	6.220	VV	0.0518	246.16084	0.00031	?
80	6.280	VV	0.0371	133.36617	0.00017	?
81	6.362	VV	0.0725	393.20654	0.00050	?
82	6.465	VV	0.0675	429.73428	0.00055	?
83	6.584	VV	0.0546	450.94467	0.00058	?
84	6.913	VV	0.0590	754.88849	0.00096	?
85	6.980	VV	0.0494	348.66101	0.00045	?
86	7.147	VV	0.0890	1637.06250	0.00209	?
87	7.265	VV	0.0527	438.58298	0.00056	?
88	7.382	VV	0.1029	1385.82690	0.00177	?
89	7.688	VV	0.0866	946.79291	0.00121	?
90	7.762	VV	0.0624	546.28046	0.00070	?
91	7.849	VV	0.0321	195.10843	0.00025	?
92	7.963	VV	0.1080	1343.66724	0.00172	?
93	8.234	VV	0.1233	1585.69873	0.00203	?
94	8.542	VV	0.0877	1628.20105	0.00208	?
95	8.627	VV	0.0156	87.33862	0.00011	?
96	8.693	VV	0.0569	335.18909	0.00043	?
97	8.748	VV	0.0428	282.74908	0.00036	?
98	8.787	VV	0.1104	780.98706	0.00100	?
99	9.043	VV	0.0713	683.89447	0.00087	?
100	9.219	VV	0.0798	422.40326	0.00054	?
101	9.355	VV	0.0941	477.84769	0.00061	?
102	9.725	VV	0.0794	295.78110	0.00038	?
103	9.856	VV	0.0650	219.62732	0.00028	?
104	9.927	VV	0.0269	83.67573	0.00011	?
105	10.018	VV	0.0992	452.93005	0.00058	?
106	10.364	VV	0.0895	195.10667	0.00025	?
107	10.476	VV	0.0856	227.76169	0.00029	?
108	10.622	VV	0.1730	220.01299	0.00028	?
109	10.915	VV	0.0791	107.93601	0.00014	?

Uncalib. totals : 7.82821e7 99.9910

Results obtained with enhanced integrator!
3 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

Warning : Elution order of calibrated compounds may have changed

==========

*** End of Report ***

```
==================================================================
Injection Date  : 10/12/2005 3:54:52 PM          Seq. Line :   4
Sample Name     : 168469 x1 ms R                  Location : Vial 16
Acq. Operator   : DCS                                  Inj :   1
Acq. Instrument : GC6                           Inj Volume : 10 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\101205A.S
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPH-R_F.M
Last changed    : 9/23/2005 10:16:24 AM by DCS
TPH
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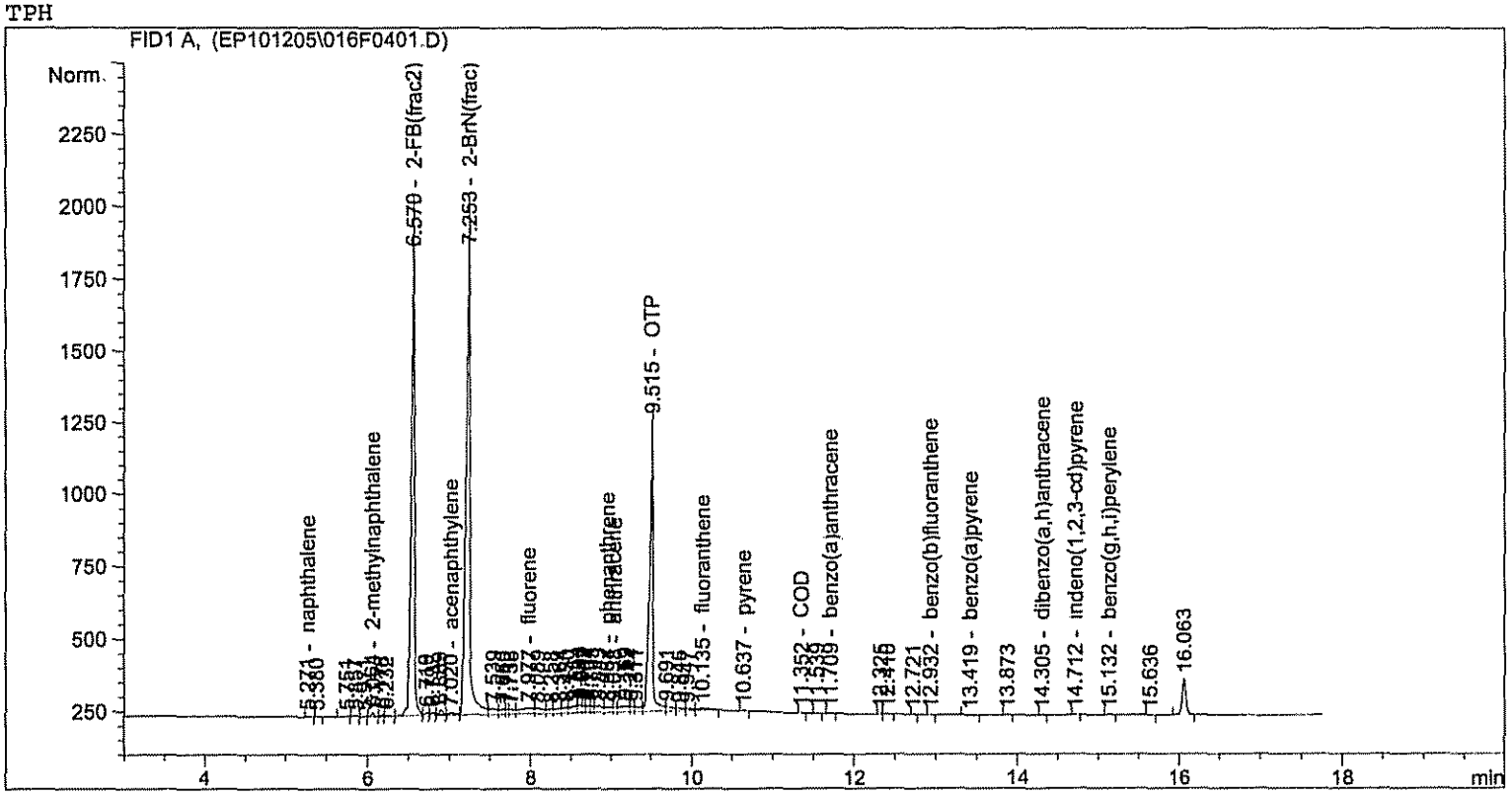


```
==================================================================
                        Area Percent Report
==================================================================

Sorted By              :      Signal
Calib. Data Modified   :      9/23/2005 9:33:55 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.271	PB	0.0406	11.49560	1.460e-5	naphthalene
2	6.064	VV	0.0361	35.73989	4.540e-5	2-methylnaphthalene
3	6.570	VV	0.0346	4544.83838	0.00577	2-FB(frac2)
4	7.020	VV	0.0910	62.48144	7.937e-5	acenaphthylene
5	7.253	VV	0.0395	5756.51514	0.00731	2-BrN(frac)
6	7.323		0.0000	0.00000	0.00000	acenaphthene
7	7.977	VV	0.1414	232.35760	0.00030	fluorene
8	8.954	VV	0.0740	119.54329	0.00015	phenanthrene
9	9.038	VV	0.0404	56.05480	7.121e-5	anthracene
10	9.515	VV	0.0375	2904.57617	0.00369	OTP
11	10.135	VB	0.1283	77.74749	9.876e-5	fluoranthene
12	10.637	BB	0.0367	6.66244	8.463e-6	pyrene

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.352	BB	0.0389	4.10378	5.213e-6	COD
14	11.709	BB	0.0385	3.16830	4.025e-6	benzo(a)anthracene
15	12.022		0.0000	0.00000	0.00000	chrysene
16	12.932	PP	0.0287	2.97496	3.779e-6	benzo(b)fluoranthene
17	13.215		0.0000	0.00000	0.00000	benzo(k)fluoranthene
18	13.419	PB	0.0423	4.45474	5.659e-6	benzo(a)pyrene
19	14.305	BB	0.0351	4.54361	5.772e-6	dibenzo(a,h)anthracene
20	14.712	BP	0.0360	4.61705	5.865e-6	indeno(1,2,3-cd)pyrene
21	15.132	BP	0.0471	5.34533	6.790e-6	benzo(g,h,i)perylene

Totals : 1.38372e4 1.758e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.549	PV	0.0224	29.24927	3.716e-5	?
2	0.582	VV	0.0144	16.35055	2.077e-5	?
3	1.781	VB S	0.9770	7.85479e7	99.78147	?
4	1.885	BV T	0.0862	2.39417e4	0.03041	?
5	1.920	VV T	0.0464	1.56357e4	0.01986	?
6	1.989	VV T	0.0258	8421.22656	0.01070	?
7	2.032	VV T	0.0296	8546.36914	0.01086	?
8	2.083	VV T	0.0494	1.25337e4	0.01592	?
9	2.143	VV T	0.0354	8576.92285	0.01090	?
10	2.172	VV T	0.0401	7384.48193	0.00938	?
11	2.221	VV T	0.0312	6574.29297	0.00835	?
12	2.271	VV T	0.0384	7929.19189	0.01007	?
13	2.314	VV T	0.0518	8597.84668	0.01092	?
14	2.369	VV T	0.0306	7568.74658	0.00961	?
15	2.413	VV T	0.0352	5862.82813	0.00745	?
16	2.442	VV T	0.0298	4262.01563	0.00541	?
17	2.484	VV T	0.0295	5680.12451	0.00722	?
18	2.533	VV T	0.0436	7802.97705	0.00991	?
19	2.587	VV T	0.0346	6047.66406	0.00768	?
20	2.636	VV T	0.0297	4498.02246	0.00571	?
21	2.677	VV T	0.0299	2611.31812	0.00332	?
22	2.722	VV T	0.0303	1841.26733	0.00234	?
23	2.759	VB T	0.0226	1292.00159	0.00164	?
24	5.380	BB	0.0344	2.99759	3.808e-6	?
25	5.751	BP	0.0267	2.01062	2.554e-6	?
26	5.857	VV	0.0433	6.52643	8.291e-6	?
27	5.971	VV	0.0381	4.53075	5.756e-6	?
28	6.178	VV	0.0338	16.77482	2.131e-5	?
29	6.232	VP	0.0460	16.31889	2.073e-5	?
30	6.719	VV	0.0428	35.70434	4.536e-5	?
31	6.792	VV	0.0498	40.38593	5.130e-5	?
32	6.889	VV	0.0524	74.03950	9.405e-5	?
33	7.539	VV	0.0867	140.31647	0.00018	?
34	7.660	VV	0.0594	82.73849	0.00011	?
35	7.712	VV	0.0311	38.50071	4.891e-5	?
36	7.755	VV	0.0601	76.85116	9.763e-5	?
37	8.089	VB	0.0957	135.48225	0.00017	?
38	8.258	BV	0.0691	85.44830	0.00011	?
39	8.364	VV	0.0646	92.99495	0.00012	?
40	8.450	VV	0.0590	96.20968	0.00012	?
41	8.554	VV	0.0727	152.99425	0.00019	?
42	8.606	VV	0.0433	87.02821	0.00011	?
43	8.647	VV	0.0293	53.85131	6.841e-5	?
44	8.704	VV	0.0475	81.94098	0.00010	?
45	8.753	VV	0.0330	56.89795	7.228e-5	?
46	8.843	VV	0.0850	146.29109	0.00019	?
47	9.169	VV	0.1035	181.16269	0.00023	?
48	9.244	VV	0.0394	56.59834	7.190e-5	?
49	9.311	VV	0.0773	99.79025	0.00013	?

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
50	9.691	VB	0.0733	95.74579	0.00012	?
51	9.845	BV	0.0798	66.13286	8.401e-5	?
52	9.947	VV	0.0743	49.05613	6.232e-5	?
53	11.539	BP	0.0284	2.57707	3.274e-6	?
54	12.325	BV	0.0306	2.43676	3.095e-6	?
55	12.410	VB	0.0445	4.67908	5.944e-6	?
56	12.721	BP	0.0264	3.35474	4.262e-6	?
57	13.873	BB	0.0387	5.43857	6.909e-6	?
58	15.636	BB	0.0494	3.46336	4.400e-6	?
59	16.063	BB	0.0486	434.35336	0.00055	?

Uncalib. totals : 7.87061e7 99.9824

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

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*** End of Report ***

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==========================================================================
Injection Date  : 10/12/2005 4:21:53 PM          Seq. Line :   5
Sample Name     : 168470 x1 msd K                 Location : Vial 17
Acq. Operator   : DCS                                  Inj :   1
Acq. Instrument : GC6                           Inj Volume : 10 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\101205A.S
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPHTK_F.M
Last changed    : 10/6/2005 10:15:42 AM by DCS
TPH
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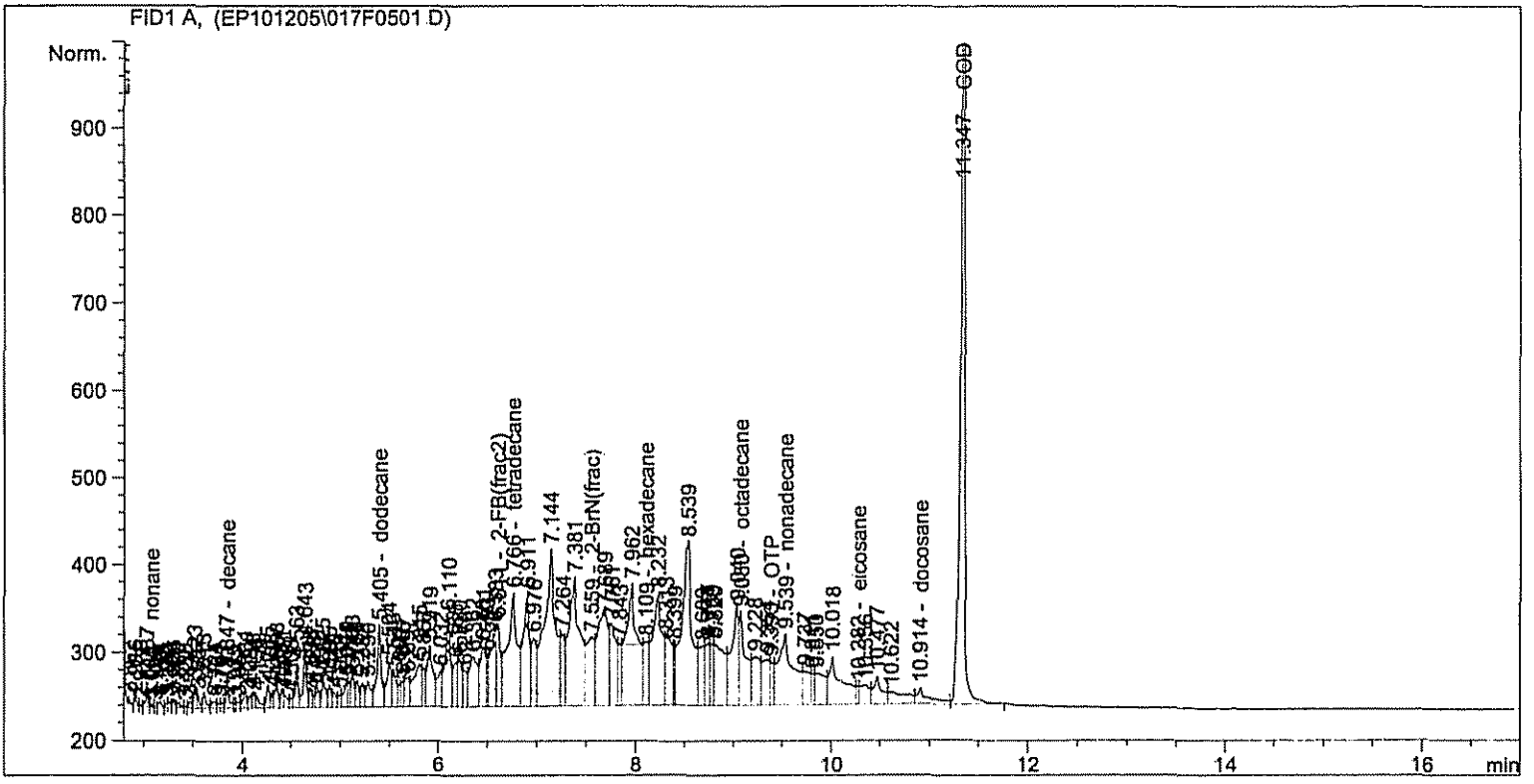


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==========================================================================
                          Area Percent Report
==========================================================================

Sorted By              :      Signal
Calib. Data Modified   :      9/20/2005 8:28:13 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	3.082	VV	0.0230	5.32847	6.678e-6	nonane
2	3.847	VV	0.0261	71.00408	8.898e-5	decane
3	5.405	VV	0.0417	281.82050	0.00035	dodecane
4	6.611	VV	0.0385	254.13602	0.00032	2-FB(frac2)
5	6.766	VV	0.0891	905.14587	0.00113	tetradecane
6	7.559	VV	0.0790	471.32587	0.00059	2-BrN(frac)
7	8.109	VV	0.0452	261.06464	0.00033	hexadecane
8	9.080	VV	0.0598	489.67685	0.00061	octadecane
9	9.393	VV	0.0294	111.23277	0.00014	OTP
10	9.539	VV	0.1337	868.55432	0.00109	nonadecane
11	10.282	VV	0.0220	32.69074	4.097e-5	eicosane
12	10.914	VV	0.1094	148.60738	0.00019	docosane

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.347	VP	0.0429	2675.54370	0.00335	COD
14	11.779		0.0000	0.00000	0.00000	tetracosane
15	12.525		0.0000	0.00000	0.00000	hexacosane
16	13.242		0.0000	0.00000	0.00000	octacosane
17	13.914		0.0000	0.00000	0.00000	triacontane
18	16.100		0.0000	0.00000	0.00000	hexatriacontane

Totals : 6576.13119 8.241e-3

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.545	PV	0.0210	6.16483	7.726e-6	?
2	0.584	VV	0.0152	7.63406	9.567e-6	?
3	1.807	VV S	0.9582	7.86959e7	98.62467	?
4	1.834	VV S	0.0186	9.19475e5	1.15232	?
5	1.874	VV S	0.0308	1.10214e4	0.01381	?
6	1.913	VV S	0.0271	8400.36914	0.01053	?
7	1.945	VV S	0.0292	8729.07324	0.01094	?
8	1.995	VV S	0.0504	1.43358e4	0.01797	?
9	2.038	VV S	0.0210	4718.75537	0.00591	?
10	2.080	VV S	0.0476	1.19996e4	0.01504	?
11	2.134	VV S	0.0666	1.46053e4	0.01830	?
12	2.190	VV S	0.0312	6905.18604	0.00865	?
13	2.232	VV S	0.0388	7325.85938	0.00918	?
14	2.274	VV S	0.0270	5639.86621	0.00707	?
15	2.321	VV S	0.0496	9312.01563	0.01167	?
16	2.370	VV S	0.0337	6485.82715	0.00813	?
17	2.407	VV S	0.0290	5665.89502	0.00710	?
18	2.473	VV S	0.0738	1.26250e4	0.01582	?
19	2.539	VV S	0.0381	6851.99707	0.00859	?
20	2.580	VV S	0.0360	6096.21582	0.00764	?
21	2.617	VV S	0.0407	5946.77588	0.00745	?
22	2.665	VV S	0.0272	2845.08301	0.00357	?
23	2.705	VV S	0.0263	1872.91394	0.00235	?
24	2.741	VV S	0.0301	1526.97437	0.00191	?
25	2.774	VBAS	0.0190	772.26971	0.00097	?
26	2.862	BP	0.0167	4.59360	5.757e-6	?
27	2.916	VV	0.0247	14.30528	1.793e-5	?
28	2.971	VP	0.0219	3.13891	3.934e-6	?
29	3.037	VV	0.0207	34.36978	4.307e-5	?
30	3.122	VP	0.0168	1.42402	1.785e-6	?
31	3.174	VV	0.0269	13.59390	1.704e-5	?
32	3.235	VV	0.0184	6.14233	7.698e-6	?
33	3.266	VV	0.0250	10.97262	1.375e-5	?
34	3.306	VV	0.0211	13.12380	1.645e-5	?
35	3.360	VV	0.0288	13.11808	1.644e-5	?
36	3.427	VP	0.0191	1.58296	1.984e-6	?
37	3.472	VV	0.0296	11.95426	1.498e-5	?
38	3.523	VV	0.0247	42.83549	5.368e-5	?
39	3.557	VV	0.0211	21.23717	2.662e-5	?
40	3.613	VV	0.0339	39.29908	4.925e-5	?
41	3.724	VV	0.0438	23.01273	2.884e-5	?
42	3.764	VV	0.0224	8.50344	1.066e-5	?
43	3.797	VV	0.0253	11.13026	1.395e-5	?
44	3.925	VV	0.0187	5.93420	7.437e-6	?
45	3.958	VV	0.0314	14.34706	1.798e-5	?
46	4.031	VV	0.0318	48.54960	6.084e-5	?
47	4.084	VV	0.0323	27.80566	3.485e-5	?
48	4.118	VV	0.0275	32.47991	4.071e-5	?
49	4.156	VV	0.0378	34.12095	4.276e-5	?
50	4.265	VV	0.0313	53.00456	6.643e-5	?
51	4.308	VV	0.0189	21.74187	2.725e-5	?
52	4.358	VV	0.0348	75.76315	9.495e-5	?

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
53	4.411	VV	0.0250	37.40098	4.687e-5	?
54	4.438	VV	0.0343	38.06231	4.770e-5	?
55	4.508	VV	0.0234	18.12351	2.271e-5	?
56	4.563	VV	0.0274	94.22884	0.00012	?
57	4.643	VV	0.0301	160.75758	0.00020	?
58	4.698	VV	0.0256	39.80903	4.989e-5	?
59	4.729	VV	0.0195	18.34767	2.299e-5	?
60	4.772	VV	0.0364	52.51285	6.581e-5	?
61	4.825	VV	0.0339	88.74511	0.00011	?
62	4.895	VV	0.0315	54.02158	6.770e-5	?
63	4.940	VV	0.0377	41.25428	5.170e-5	?
64	5.003	VV	0.0325	33.57584	4.208e-5	?
65	5.070	VV	0.0370	86.21135	0.00011	?
66	5.094	VV	0.0195	40.21110	5.039e-5	?
67	5.133	VV	0.0327	87.42372	0.00011	?
68	5.180	VV	0.0340	69.06614	8.656e-5	?
69	5.232	VV	0.0342	62.27200	7.804e-5	?
70	5.290	VV	0.0502	102.87508	0.00013	?
71	5.504	VV	0.0410	154.96471	0.00019	?
72	5.546	VV	0.0433	119.58146	0.00015	?
73	5.607	VV	0.0284	47.45558	5.947e-5	?
74	5.646	VV	0.0279	59.73409	7.486e-5	?
75	5.697	VV	0.0424	108.37766	0.00014	?
76	5.815	VV	0.0748	284.24869	0.00036	?
77	5.857	VV	0.0298	89.52383	0.00011	?
78	5.919	VV	0.0580	290.44760	0.00036	?
79	6.032	VV	0.0438	133.66978	0.00017	?
80	6.110	VV	0.0510	388.95721	0.00049	?
81	6.185	VV	0.0358	141.05151	0.00018	?
82	6.220	VV	0.0436	170.73477	0.00021	?
83	6.275	VV	0.0403	118.40434	0.00015	?
84	6.362	VV	0.0736	322.81088	0.00040	?
85	6.461	VV	0.0568	273.57916	0.00034	?
86	6.503	VV	0.0212	72.80844	9.125e-5	?
87	6.583	VV	0.0515	343.02255	0.00043	?
88	6.911	VV	0.0601	571.81641	0.00072	?
89	6.976	VV	0.0452	267.63419	0.00034	?
90	7.144	VV	0.1010	1422.51355	0.00178	?
91	7.264	VV	0.0373	233.51440	0.00029	?
92	7.381	VV	0.0969	1134.69470	0.00142	?
93	7.689	VV	0.0953	804.42175	0.00101	?
94	7.761	VV	0.0622	425.54214	0.00053	?
95	7.843	VV	0.0394	167.00754	0.00021	?
96	7.962	VV	0.1032	1139.82837	0.00143	?
97	8.232	VV	0.0885	864.84973	0.00108	?
98	8.313	VV	0.0819	388.55316	0.00049	?
99	8.399	VV	0.0153	72.28341	9.059e-5	?
100	8.539	VV	0.0940	1408.42615	0.00177	?
101	8.689	VV	0.0518	283.22488	0.00035	?
102	8.747	VV	0.0413	227.21799	0.00028	?
103	8.789	VV	0.0341	169.55818	0.00021	?
104	8.820	VV	0.0951	510.57156	0.00064	?
105	9.040	VV	0.0667	586.13794	0.00073	?
106	9.228	VV	0.0738	321.60791	0.00040	?
107	9.354	VV	0.0709	292.03677	0.00037	?
108	9.737	VV	0.0619	195.60037	0.00025	?
109	9.811	VV	0.0271	72.88915	9.135e-5	?
110	9.850	VV	0.0872	253.88606	0.00032	?
111	10.018	VV	0.1175	514.89233	0.00065	?
112	10.356	VV	0.0884	145.24886	0.00018	?
113	10.477	VV	0.0759	189.01042	0.00024	?
114	10.622	VV	0.1695	178.02487	0.00022	?

Uncalib. totals : 7.97868e7 99.9918

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

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*** End of Report ***

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Injection Date  : 10/12/2005 4:48:20 PM          Seq. Line :   6
Sample Name     : 168470 x1 msd R                 Location : Vial 18
Acq. Operator   : DCS                                  Inj :   1
Acq. Instrument : GC6                           Inj Volume : 10 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\101205A.S
Acq. Method     : C:\HPCHEM\1\METHODS\PROEPH.M
Last changed    : 5/12/2005 1:48:41 PM by CLP
Analysis Method : C:\HPCHEM\1\METHODS\EPH-R_F.M
Last changed    : 9/23/2005 10:16:24 AM by DCS
TPH
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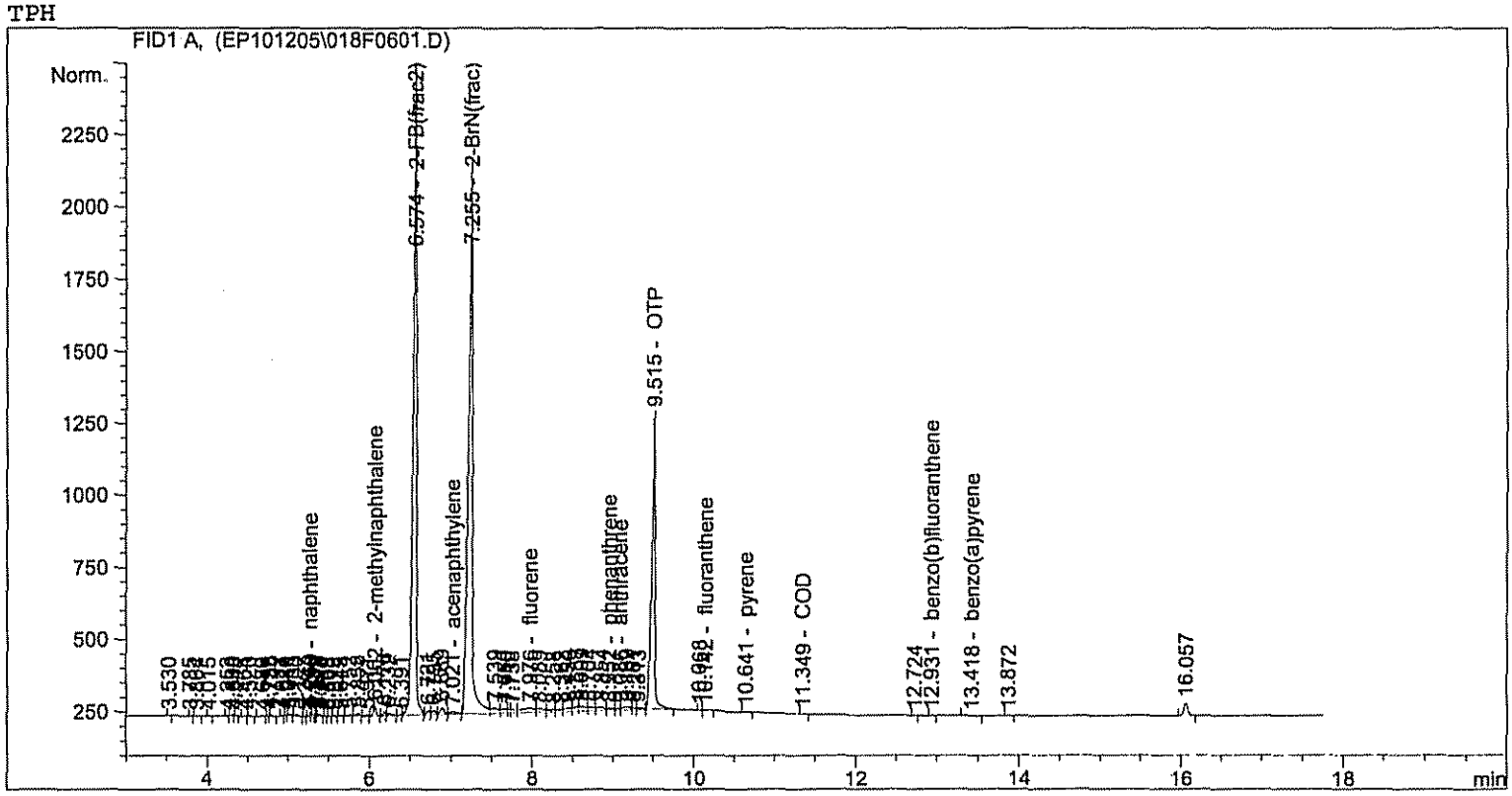


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==================================================================
                        Area Percent Report
==================================================================

Sorted By              :      Signal
Calib. Data Modified   :      9/23/2005 9:33:55 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: FID1 A,
```

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	5.269	VV	0.0259	24.56829	3.105e-5	naphthalene
2	6.062	VV	0.0367	89.44221	0.00011	2-methylnaphthalene
3	6.574	VV	0.0359	6406.31592	0.00810	2-FB(frac2)
4	7.021	VV	0.0792	60.69892	7.672e-5	acenaphthylene
5	7.255	VV	0.0447	6589.33545	0.00833	2-BrN(frac)
6	7.323		0.0000	0.00000	0.00000	acenaphthene
7	7.976	VV	0.1365	162.92570	0.00021	fluorene
8	8.952	VV	0.0695	52.64384	6.653e-5	phenanthrene
9	9.086	VV	0.0516	32.53509	4.112e-5	anthracene
10	9.515	VB	0.0367	2887.18799	0.00365	OTP
11	10.142	VP	0.0553	9.51467	1.203e-5	fluoranthene
12	10.641	BB	0.0355	4.82349	6.096e-6	pyrene

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
13	11.349	VB	0.0419	4.24727	5.368e-6	COD
14	11.985		0.0000	0.00000	0.00000	benzo(a)anthracene
15	12.022		0.0000	0.00000	0.00000	chrysene
16	12.931	PP	0.0293	2.04143	2.580e-6	benzo(b)fluoranthene
17	13.215		0.0000	0.00000	0.00000	benzo(k)fluoranthene
18	13.418	PB	0.0544	4.39491	5.555e-6	benzo(a)pyrene
19	14.607		0.0000	0.00000	0.00000	dibenzo(a,h)anthracene
20	14.640		0.0000	0.00000	0.00000	indeno(1,2,3-cd)pyrene
21	14.817		0.0000	0.00000	0.00000	benzo(g,h,i)perylene

Totals : 1.63307e4 2.064e-2

Uncalibrated Peaks:

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
1	0.552	PV	0.0218	26.78967	3.386e-5	?
2	0.582	VV	0.0138	13.63117	1.723e-5	?
3	0.696	VV S	0.0408	1.13423e6	1.43352	?
4	1.780	VV S	0.6712	7.70163e7	97.33839	?
5	1.832	VV S	0.0174	7.98881e5	1.00968	?
6	1.882	VV S	0.0693	2.10693e4	0.02663	?
7	1.933	VV S	0.0364	1.11986e4	0.01415	?
8	1.982	VV S	0.0385	1.07563e4	0.01359	?
9	2.022	VV S	0.0375	8842.83008	0.01118	?
10	2.066	VV S	0.0422	9793.57227	0.01238	?
11	2.117	VV S	0.0448	1.04086e4	0.01316	?
12	2.164	VV S	0.0302	6473.06006	0.00818	?
13	2.206	VV S	0.0360	9347.24707	0.01181	?
14	2.252	VV S	0.0289	6186.02637	0.00782	?
15	2.280	VV S	0.0314	6106.95801	0.00772	?
16	2.321	VV S	0.0277	5360.61475	0.00678	?
17	2.363	VV S	0.0323	6378.16602	0.00806	?
18	2.400	VV S	0.0364	6515.91846	0.00824	?
19	2.476	VV S	0.0716	1.08632e4	0.01373	?
20	2.539	VV S	0.0433	8115.86426	0.01026	?
21	2.586	VV S	0.0335	5429.88965	0.00686	?
22	2.616	VV S	0.0373	4884.71875	0.00617	?
23	2.664	VV S	0.0325	3006.30688	0.00380	?
24	2.708	VV S	0.0297	1908.19006	0.00241	?
25	2.750	VB S	0.0470	2107.67969	0.00266	?
26	3.530	PV	0.0284	2.41638	3.054e-6	?
27	3.785	PB	0.0235	4.42554	5.593e-6	?
28	3.864	BB	0.0472	3.50190	4.426e-6	?
29	4.015	PB	0.0237	2.60744	3.295e-6	?
30	4.252	PV	0.0260	3.34316	4.225e-6	?
31	4.309	VV	0.0271	7.46365	9.433e-6	?
32	4.348	VB	0.0316	3.33384	4.214e-6	?
33	4.464	PV	0.0310	6.70654	8.476e-6	?
34	4.520	VP	0.0237	9.06122	1.145e-5	?
35	4.680	BV	0.0377	8.13393	1.028e-5	?
36	4.755	VV	0.0203	7.25960	9.175e-6	?
37	4.786	VB	0.0235	12.60582	1.593e-5	?
38	4.927	BV	0.0232	7.90526	9.991e-6	?
39	4.980	VV	0.0262	8.22937	1.040e-5	?
40	5.011	VV	0.0378	21.40625	2.705e-5	?
41	5.100	VV	0.0463	21.76743	2.751e-5	?
42	5.207	VV	0.0226	3.64479	4.607e-6	?
43	5.298	VV	0.0260	16.32424	2.063e-5	?
44	5.342	VV	0.0215	6.25029	7.900e-6	?
45	5.379	VV	0.0337	20.45536	2.585e-5	?
46	5.469	VV	0.0253	4.19909	5.307e-6	?
47	5.503	VP	0.0290	4.84968	6.129e-6	?
48	5.573	VV	0.0313	5.50827	6.962e-6	?
49	5.645	VV	0.0380	9.69534	1.225e-5	?

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Area %	Name
50	5.752	VV	0.0362	15.38111	1.944e-5	?
51	5.858	VV	0.0464	28.73049	3.631e-5	?
52	5.971	VV	0.0451	20.24766	2.559e-5	?
53	6.176	VV	0.0329	36.97779	4.674e-5	?
54	6.232	VP	0.0480	35.69319	4.511e-5	?
55	6.391	VV	0.0338	11.26700	1.424e-5	?
56	6.721	VV	0.0415	48.99542	6.192e-5	?
57	6.795	VV	0.0477	53.17467	6.721e-5	?
58	6.889	VV	0.0483	94.73962	0.00012	?
59	7.539	VV	0.0832	124.82206	0.00016	?
60	7.659	VV	0.0571	72.51408	9.165e-5	?
61	7.710	VV	0.0285	26.18907	3.310e-5	?
62	7.758	VV	0.0539	54.53723	6.893e-5	?
63	8.089	VV	0.0830	79.95989	0.00010	?
64	8.258	VV	0.0717	59.55008	7.526e-5	?
65	8.362	VV	0.0608	49.86512	6.302e-5	?
66	8.450	VV	0.0733	73.24599	9.257e-5	?
67	8.557	VV	0.0586	75.72197	9.570e-5	?
68	8.609	VV	0.0738	97.04958	0.00012	?
69	8.704	VB	0.0630	64.86639	8.198e-5	?
70	8.854	BV	0.0814	77.13526	9.749e-5	?
71	9.169	VV	0.0843	73.94403	9.346e-5	?
72	9.261	VV	0.0381	21.40623	2.705e-5	?
73	9.313	VV	0.0696	33.55468	4.241e-5	?
74	10.068	VV	0.0249	2.72114	3.439e-6	?
75	12.724	BP	0.0269	2.61002	3.299e-6	?
76	13.872	BP	0.0338	3.11285	3.934e-6	?
77	16.057	BB	0.0527	149.83301	0.00019	?

Uncalib. totals : 7.91059e7 99.9794

Results obtained with enhanced integrator!
2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

==========
*** End of Report ***

EPH Prep, Standard, Run Logs

Prep Report for Batch 3787 (EPH/3520/WATER) on 2005-10-07 by eaw

Sample ID (GCCODE)	EXT	InitVol	QCSpikeID	QCSpikeVol	SSpikeID	SSpikeVol	FinalVol	CH2Cl2Lot	HexaneLot
G161-2180-5J (167980)		500			EPHSRSV03W17S	0.5	5.0	CO874	CO636
G161-2182-13M (167990)		500			EPHSRSV03W17S	0.5	5.0	CO874	CO636
G161-2182-15M (167991)		500			EPHSRSV03W17S	0.5	5.0	CO874	CO636
G311-160-2M (167981)		500			EPHSRSV03W17S	0.5	5.0	CO874	CO636
G311-160-4M (167982)		500			EPHSRSV03W17S	0.5	5.0	CO874	CO636
G349-122-1E (167983)		500			EPHSRSV03W17S	0.5	5.0	CO874	CO636
G349-122-1F (167984)	DUP	500			EPHSRSV03W17S	0.5	5.0	CO874	CO636
G349-122-2E (167985)		500			EPHSRSV03W17S	0.5	5.0	CO874	CO636
G349-122-3M (167986)		500			EPHSRSV03W17S	0.5	5.0	CO874	CO636
G349-122-3N (167987)	MS	250	8015QCSV03W25A	0.5	EPHSRSV03W17S	0.5	5.0	CO874	CO636
G349-122-3O (167988)	MSD	250	8015QCSV03W25A	0.5	EPHSRSV03W17S	0.5	5.0	CO874	CO636
G349-122-4E (167989)		500			EPHSRSV03W17S	0.5	5.0	CO874	CO636
LCS3787	LCS	500	8015QCSV03W25A	0.5	EPHSRSV03W17S	0.5	5.0	CO874	CO636
PB3787	PB	500			EPHSRSV03W17S	0.5	5.0	CO874	CO636

Paradigm Analytical

ECD1 Runlog Sheet

Method: _____ Initial Cal. Curve: _____

Matrix: _____ Batch: ep100705

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	FNT	BACK	SR QC	OPER	RERUN
001F0101.D	G649-2-1M x1 msd R	10/7/05 9:15	cid= 166792				DCS	
002F0201.D	K 20 ccal	10/7/05 9:42	Maintained septum				DCS	
003F0301.D	R 20 ccal	10/7/05 10:08					DCS	
004F0101.D	R 20 ccal	10/7/05 11:02					DCS	
006F0101.D	R 20 ccal	10/7/05 11:34					DCS	
007F0201.D	G649-2-1M x1 msd R	10/7/05 12:27	cid= 166792	✓			DCS	
008F0301.D	G161-2172-2J x1 K	10/7/05 12:53	cid= 166379				DCS	
009F0401.D	G442-356-1J x1 K	10/7/05 13:19	cid= 166793				DCS	
010F0501.D	G442-356-2J x1 K	10/7/05 13:46	cid= 166794	RR			DCS	
011F0101.D	lcs3762 x1 K	10/7/05 14:56		✓			DCS	
012F0201.D	lcs3762 x1 R	10/7/05 15:23					DCS	
013F0301.D	G510-260-2J x1 ms K	10/7/05 15:49	cid= 166392				DCS	
014F0401.D	G510-260-2J x1 ms R	10/7/05 16:16	cid= 166392				DCS	
015F0501.D	G510-260-2K x1 msd K	10/7/05 16:43	cid= 166393				DCS	
016F0601.D	G510-260-2K x1 msd R	10/7/05 17:10	cid= 166393				DCS	
017F0701.D	lcs3752 x1 K	10/7/05 17:37		✓			DCS	
018F0801.D	lcs3752 x1 R	10/7/05 18:04	Bad inj	RR			DCS	
019F0901.D	G204-492-5H x5 K	10/7/05 18:31	cid= 166786	✓			DCS	
020F1001.D	G204-492-5H x1 R	10/7/05 18:58	cid= 166786				DCS	
021F1101.D	G161-2172-1J x100 K	10/7/05 19:26	cid= 166378				DCS	
022F1201.D	G161-2172-1J x50 R	10/7/05 19:53	cid= 166378				DCS	
023F1301.D	pb3787 x1 T	10/7/05 20:21	Bad inj	RR			DCS	
024F1401.D	G161-2180-5J x1 T	10/7/05 20:48	cid= 167980	✓			DCS	
025F1501.D	G311-160-2M x1 T	10/7/05 21:15	cid= 167981	CU			DCS	

Analyst: _____ Page Number: _____

N.C. CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC.

Paradigm Analytical

ECD1 Runlog Sheet

Method: _____ Initial Cal. Curve: _____

Matrix: _____ Batch: ep101005

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	FNT	BACK	SR QC	OPER	RERUN
001F0101.D	K 20 ccal	10/10/05 9:45					DCS	
002F0201.D	R 20 ccal	10/10/05 10:12					DCS	
003F0101.D	pb3686 x1 T	10/10/05 12:03					DCS	
004F0201.D	pb3787 x1 T	10/10/05 12:30					DCS	
005F0301.D	G442-356-2J x1 K	10/10/05 12:57	cid= 166794				DCS	
006F0401.D	lcs3752 x1 R	10/10/05 13:24					DCS	
007F0501.D	pb3791 x1 T	10/10/05 13:51					DCS	
008F0601.D	G106-559-2I x1 T	10/10/05 14:17	cid= 168463	✓			DCS	
009F0701.D	G122-2656-1G x1 T	10/10/05 14:44	cid= 168464	✓			DCS	
010F0801.D	G161-2180-1I x1 T	10/10/05 15:10	cid= 168465	CU			DCS	
011F0901.D	G161-2180-2I x1 T	10/10/05 15:37	cid= 168466	✓			DCS	
012F1001.D	G161-2180-3I x1 T	10/10/05 16:04	cid= 168467	✓			DCS	
013F1101.D	G161-2182-6I x1 T	10/10/05 16:30	cid= 168468	CU			DCS	
014F1201.D	G161-2182-7I x1 T	10/10/05 16:57	cid= 168471	✓			DCS	
015F0101.D	G106-558-1H x1 K	10/10/05 18:35	cid= 167044	X5			DCS	
016F0201.D	G106-558-1H x1 R	10/10/05 19:01	cid= 167044	x5			DCS	
017F0301.D	G106-558-2J x1 K	10/10/05 19:29	cid= 167045	x1			DCS	
018F0401.D	G106-558-2J x1 R	10/10/05 19:56	cid= 167045	X1			DCS	

Analyst: _____ Page Number: _____

N.C. CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC.

Paradigm Analytical

ECD1 Runlog Sheet

Method: _____ Initial Cal. Curve: _____

Matrix: _____ Batch: ep101705

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	FNT	BACK	SR QC	OPER	RERUN
001F0101.D	K 20 ccal	10/17/2005 7:56					DCS	
002F0201.D	R 20 ccal	10/17/2005 8:23					DCS	
002F0101.D	R 20 ccal	10/17/2005 8:50					DCS	
003F0101.D	~~G311-160-4M x1 R~~	10/17/2005 9:28	cid= 167982				DCS	
004F0201.D	G106-559-1J x1 ms K	10/17/2005 9:56	cid= 168593				DCS	
005F0301.D	G106-559-1K x1 msd K	10/17/2005 10:23	cid= 168594				DCS	
006F0401.D	~~G161-2182-15M x1 R~~	~~10/17/2005 11:45~~	cid= 167991				DCS	
007F0101.D	G349-123-4E x1 R	10/17/2005 12:07	cid= 168612				DCS	
008F0201.D	G161-2180-1I x2 K	10/17/2005 12:34	cid= 168465				DCS	
009F0301.D	G161-2180-1I x1 R	10/17/2005 13:01	cid= 168465				DCS	
010F0401.D	lcs3796 x1 K	10/17/2005 13:28					DCS	
011F0501.D	lcs3796 x1 R	10/17/2005 13:55					DCS	
012F0101.D	G106-559-1K x1 msd K	10/17/2005 16:42	cid= 168594				DCS	
013F0201.D	G349-123-4E x1 R	10/17/2005 17:10	cid= 168612				DCS	

Analyst: _____ Page Number: _____

PARADIGM ANALYTICAL LABORATORIES, INC.

N.C. CERTIFICATION #481

Semi-Volatile Standards Logbook

Paradigm Analytical

Logbook ID: ECD03

Working

Page: W16

Item	PAL STD ID	Exp. Date	Description	Vol. / Wt. Initial	Vol. / Wt. Final	Conc. Initial	Conc. Final	Solvent	New Standard Description	Exp. Date	Date	Init.
A	ECD03 W8A	1/06	PCP Matrix Spike	40ml	10ml	500ug/ml	2ug/ml	MeOH		1/06	9/8/05	CP
B	TPH-RSP	–	Frac 28N 004	2mL	20mL	100,000ug/mL	10,000ug/mL	Hex		8/31/06	8/31/05	DCJ
C	TPH-RSR	–	Frac 2F002	↓	↓	↓	↓	↓		↓	↓	↓
D	ECD03-R8B	5/12	EPH Aliphatic	800ul	20mL	1000ug/mL	40ug/mL	Hex		9/13/06	9/13/05	DCJ
E	ECD03-R8C	12/06	EPH Aromatic	800ul	↓	1000ug/mL	↓	↓	Aromatic EPH	↓	↓	↓
F	~~ECD03~~ ECD03-W16B	8/31/06	Frac W16 B,C	↓	↓	10,000ug/mL	400ug/mL	↓	↓	↓	↓	↓
G	EHSTDSW03W17C	7/11/06	EPH SQ	2mL	↓	400ug/mL	↓ 40ug/mL	↓	↓	↓	↓	↓
H	ECD03-W8A	1/06	PCP Matrix Spike	40ul	10ml	500ug/ml	2ug/mL	MeOH		1/06	9/15/05	CP
I	ECD-R7X	8/9/06	8081 ICAL Std	50ul	50ml	200ug/ml	200 ug/L	Hexane		8/06	9/22/05	CP
J	ECD03-R8D	~~10/4/06~~ 10/4/06 CP	8081 Con Cal Std	10ml	100ml	2000 ug/ml	200ug/L	Hexane		10/06	10/4/05	CP
K	ECD03-R7A	3/31/06	8121 Std	5ml	25ml	2000 ug/ml	400ug/ml	Hexane		3/31/06	10/4/05	CP
L	ECD03-R7B	↓	↓	10ml	↓	1000 ug/ml	↓	↓		↓	↓	↓
M	ECD03-R7C	↓	↓	100ml	↓	100 ug/ml	↓	↓		↓	↓	↓
N	ECD03-R8E	02-28-06	PCB 1248 (RESTEK)	80ml	20ml	1000ug/ml	4000ug/L	Hex	8082 1248 ICHCAL STOCK	02-28-06		[illegible]
O	ECD03-R7M	↓	8082 SURR STOCK	4ml	↓	2000ug/ml	400ug/L	↓	↓	↓		↓
P	ECD03-R8F	10-06-06	PCB 1242 (RESTEK)	80ml	20ml	1000ug/ml	4000ug/L	Hex	1242 PCB ICAL STOCK	02-28-06		[illegible]
Q	ECD03-R7M	02-28-06	8081 SURR STOCK	4ml	↓	2000ug/ml	400ug/L	↓	↓	↓		↓
R	ECD03-R8G	10-06-05	PCB 1221 (RESTEK)	80ml	20mL	1000ug/ml	4000ug/L	Hex	1221 PCB ICHL STOCK	02-28-06		[illegible]
S	ECD03-R7M	02-28-06	8081 SURR STOCK	4ml	↓	2000ug/ml	400ug/L	↓	↓	↓		↓
T	ECD03-R8H	10-06-06	PCB 1232 (RESTEK)	80ml	20ml	1000ug/ml	4000ug/L	Hex	1232 PCB ICHL STOCK	02-28-06		[illegible]
U	ECD03-R7M	02-28-06	8081 SURR STOCK	4ml	↓	2000ug/ml	400ug/L	↓	↓	↓		↓
V	ECD03 R8I	03-31-06	PCB 1248 (SUPELCO)	400ml	20ml	200ug/ml	4000ug/L	Hex	1248 CONCAL STOCK	02-28-06		[illegible]
W	ECD03-R7M	02-28-06	8081 SURR STOCK	4ml	↓	2000ug/ml	400ug/L	↓	↓	↓		↓

Comments:

Notes: PAL Lot#'s are "yyzz-SVaa-bb-c" where yy is the surrogate or spike test method, zz is SR for a surrogate or QC for a spike, aa is the logbook number,bbb is the page number, and c is the item identifier.

N.C. CERTIFICATION #481

PARADIGM ANALYTICAL LABORATORIES, INC

Prep Report for Batch 3791 (EPH/3540/SOIL) on 2005-10-07 by nio

Sample ID (GCCODE)	EXT	InitWt	QCSpikeID	QCSpikeVol	SSpikeID	SSpikeVol	FinalVol	CH2Cl2Lot	HexaneLot
G106-559-2I (168463)		12.58			ephsrsvo3w17s	1	10	co874	co636
G122-2656-1G (168464)		12.92			ephsrsvo3w17s	1	10	co874	co636
G161-2180-1I (168465)		12.31			ephsrsvo3w17s	1	10	co874	co636
G161-2180-2I (168466)		12.15			ephsrsvo3w17s	1	10	co874	co636
G161-2180-3I (168467)		12.5			ephsrsvo3w17s	1	10	co874	co636
G161-2182-6I (168468)		12.06			ephsrsvo3w17s	1	10	co874	co636
G161-2182-6J (168469)	ms	12.44	8015qcsvo3w25a	1	ephsrsvo3w17s	1	10	co874	co636
G161-2182-6K (168470)	msd	12.76	8015qcsvo3w25a	1	ephsrsvo3w17s	1	10	co874	co636
G161-2182-7I (168471)		12.28			ephsrsvo3w17s	1	10	co874	co636
lcs3791	lcs	12	8015qcsvo3w25a	1	ephsrsvo3w17s	1	10	co874	co636
pb3791	pb	12			ephsrsvo3w17s	1	10	co874	co636

601/602 Sample Raw Data

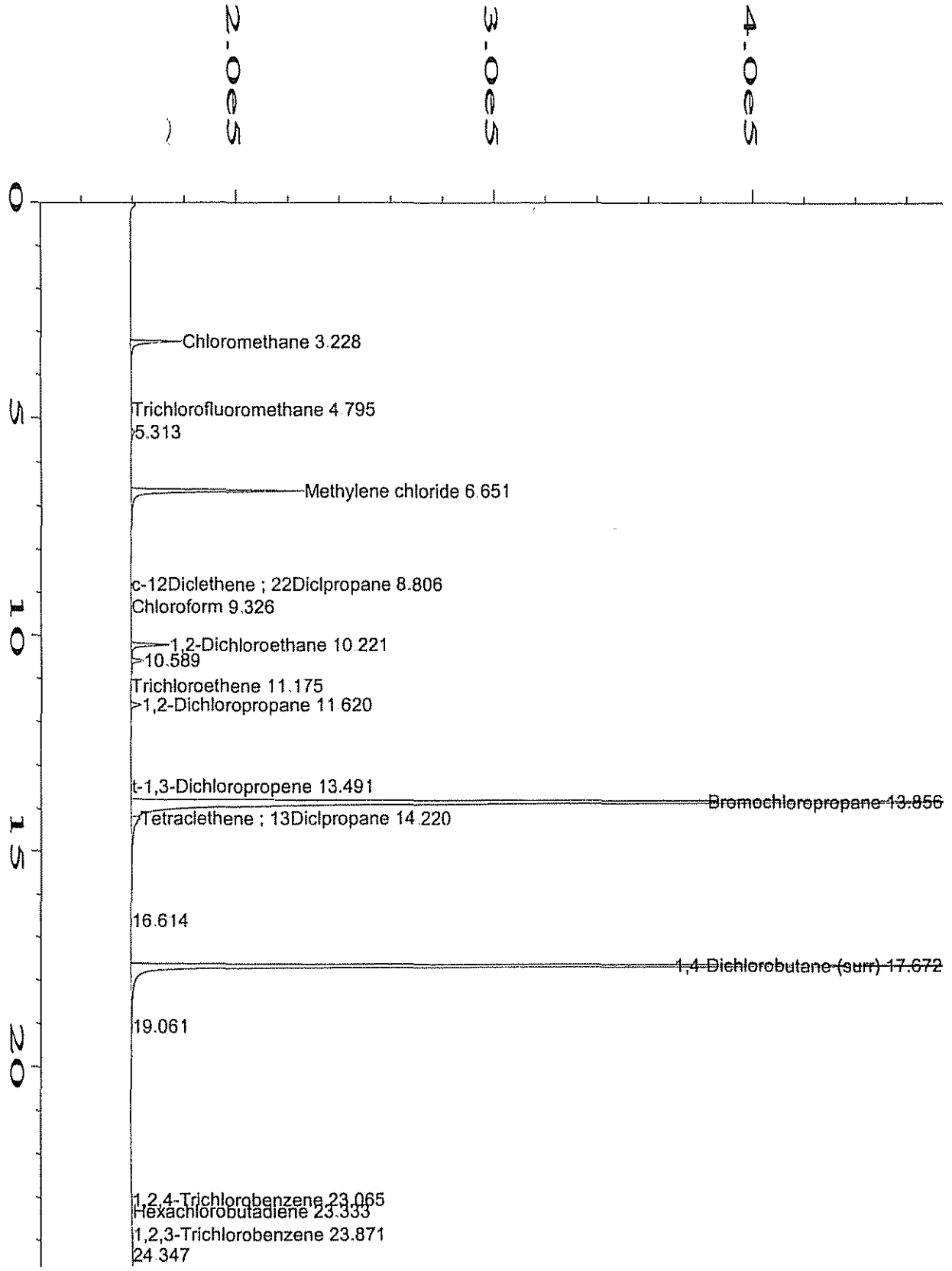
Internal Standard Report

ata File Name : C:\HPCHEM\1\DATA\101005\014F0101.D
perator : MJC
nstrument : GC3
ample Name : g161-2180-5a
un Time Bar Code:
cquired on : 10 Oct 05 03:45 PM
eport Created on: 10 Oct 05 04:10 PM
ast Recalib on : 26 SEP 05 07:59 AM
ultiplier : 1

Page Number : 1
Vial Number : 14
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

ig. 1 in C:\HPCHEM\1\DATA\101005\014F0101.D

et Time	Area	Type	Width	Ref#	µg/L	Name
2.898	* not found *			1		Dichlorodifluoromethane
3.228	86926	BB	0.060	1	~~0.159~~	Chloromethane
3.434	* not found *			1		Vinyl chloride
4.060	* not found *			1		Bromomethane
4.275	* not found *			1		Chloroethane
4.795	3031	BB	0.109	1	-~~0.457~~	Trichlorofluoromethane
5.748	* not found *			1		1,1-Dichloroethene
6.651	285654	BB	0.062	1	~~0.694~~	Methylene chloride
7.114	* not found *			1		t-1,2-Dichloroethene
7.847	* not found *			1		1,1-Dichloroethane
8.806	898	BB	0.073	1	~~-1.760~~	c-12Diclethene ; 22Diclpropane
9.193	* not found *			1		Bromochloromethane
9.326	605	BB	0.062	1	~~-0.707~~	Chloroform
9.578	* not found *			1		1,1,1-Trichloroethane
9.833	* not found *			1		Carbon Tetracl ; 11Diclpropene
10.221	60804	BV	0.060	1	-~~0.296~~	1,2-Dichloroethane
11.175	748	BB	0.061	1	-~~0.648~~	Trichloroethene
11.620	21667	BB	0.079	1	~~-0.555~~	1,2-Dichloropropane
11.745	* not found *			1		Dibromomethane
11.999	* not found *			1		Bromodichloromethane
12.731	* not found *			1		c-1,3-Dichloropropene
13.491	1860	BB	0.061	1	~~-0.301~~	t-1,3-Dichloropropene
13.856	1953381	BV	0.073	1-I	40.000	Bromochloropropane
14.037	* not found *			1		1,1,2-Trichloroethane
14.220	56784	VB	0.192	1	-~~1.129~~	Tetraclethene ; 13Diclpropane
14.722	* not found *			1		Dibromochloromethane
14.920	* not found *			1		1,2-Dibromoethane (EDB)
15.759	* not found *			1		Chlorobenzene
15.906	* not found *			1		1,1,1,2-Tetrachloroethane
17.201	* not found *			1		Bromoform
17.672	1457588	BV	0.059	1	105.795	1,4-Dichlorobutane (surr)
18.022	* not found *			1		Brbenzene;123triclprop;1122tet
18.328	* not found *			1		2-Chlorotoluene
18.517	* not found *			1		4-Chlorotoluene
19.599	* not found *			1		1,3-Dichlorobenzene
19.752	* not found *			1		1,4-Dichlorobenzene
20.382	* not found *			1		1,2-Dichlorobenzene
21.710	* not found *			1		1,2-Dibromo-3-chloropropane
23.065	941	VB	0.059	1	-0.467	1,2,4-Trichlorobenzene
23.333	2109	BV	0.057	1	-0.669	Hexachlorobutadiene
23.871	1805	PV	0.082	1	-0.413	1,2,3-Trichlorobenzene



Data File Name	: C:\HPCHEM\1\DATA\101005\014F0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 14
Sample Name	: g161-2180-5a	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 10 Oct 05 03:45 PM	Instrument Method:	8021_HAL.MTH
Report Created on:	10 Oct 05 04:10 PM	Analysis Method	: 8021_HAL.MTH
Last Recalib on	: 26 SEP 05 07:59 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

ata File Name : C:\HPCHEM\1\DATA\101005\014R0101.D
perator : MJC
nstrument : GC3
ample Name : g161-2180-5a
un Time Bar Code:
cquired on : 10 Oct 05 03:45 PM
eport Created on: 10 Oct 05 04:10 PM
ast Recalib on : 26 SEP 05 07:47 AM
ultiplier : 1

Page Number : 1
Vial Number : 14
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

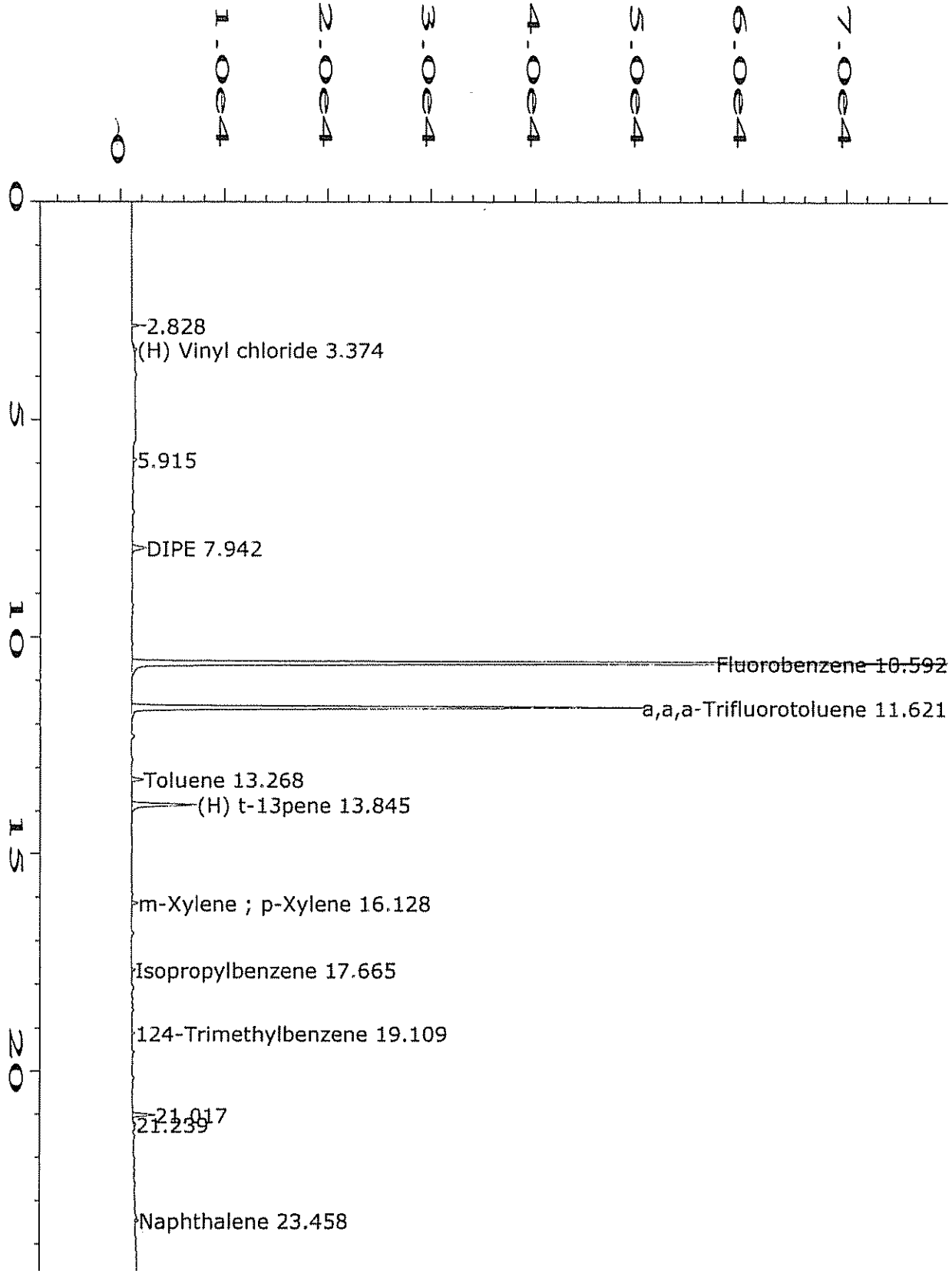
mgl 10/11

ig. 2 in C:\HPCHEM\1\DATA\101005\014R0101.D

et Time	Area	Type	Width	Ref#	µg/L	Name
3.374	2045	BB	0.092	1	-~~0.382~~	(H) Vinyl chloride
5.740	* not found *			1		(H) 1,1-Dichloroethene
7.110	* not found *			1		MTBE ; (H) t-12DCE
7.942	6685	BB	0.077	1	~~0.0205~~	DIPE
8.795	* not found *			1		(H) c-12dce
9.829	* not found *			1		(H) 11-Diclpropene
10.165	* not found *			1		Benzene
10.592	362976	BB	0.057	1-I	40.000	Fluorobenzene
11.169	* not found *			1		(H) Trichloroethene
11.621	196678	BB	0.062	1	100.078	a,a,a-Trifluorotoluene
12.722	* not found *			1		(H) c-13pene
13.268	4274	BB	0.058	1	-~~0.151~~	Toluene
13.845	27221	BB	0.067	1	3.320	(H) t-13pene
14.227	* not found *			1		(H) Tetrachloroethene
15.750	* not found *			1		(H) Chlorobenzene
15.935	* not found *			1		Ethylbenzene
16.128	2286	BB	0.057	1	-~~0.825~~	m-Xylene ; p-Xylene
16.850	* not found *			1		o-Xylene ; Styrene
17.665	1018	BB	0.051	1	-~~0.335~~	Isopropylbenzene
17.989	* not found *			1		(H) Bromobenzene
18.172	* not found *			1		n-Propylbenzene
18.319	* not found *			1		(H) 2Cltoluene
18.491	* not found *			1		135-Trimethylbenzene;4-cltolu
19.029	* not found *			1		tert-Butylbenzene
19.109	1142	BB	0.055	1	-~~0.367~~	124-Trimethylbenzene
19.402	* not found *			1		sec-Butylbenzene
19.592	* not found *			1		(H) 13dcb
19.744	* not found *			1		p-Isopropyltoluene ; (H) 14dcb
20.362	* not found *			1		n-Butylbenzene ; (H) 12dcb
23.050	* not found *			1		(H) 124-Triclbenzene
23.322	* not found *			1		(H) Hexaclbutadiene
23.458	1097	VB	0.048	1	-~~0.162~~	Naphthalene
23.857	* not found *			1		(H) 123Triclbenzene

alibration table contains at least one peak with amt = 0

ot all calibrated peaks were found



ata File Name	: C:\HPCHEM\1\DATA\101005\014R0101.D		
perator	: MJC	Page Number	: 1
nstrument	: GC3	Vial Number	: 14
ample Name	: g161-2180-5a	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 10 Oct 05 03:45 PM	Instrument Method	: 8021_HAL.MTH
eport Created on:	10 Oct 05 04:10 PM	Analysis Method	: 8021_pid.MTH
ast Recalib on	: 26 SEP 05 07:47 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	: 40

PARADIGM ANALYTICAL LABORATORIES, INC.

INITIAL CALIBRATION SUMMARY

Method: 8010/8020, 8021, 601/602, 6230D
Batch: 092505

Date: 26-Sep-05
Instrument: GC3

ELCD Compound	Slope m	Intercept b	Correlation Coefficient[a] r	#
Dichlorodifluoromethane	0.495	-0.00987	0.999	
Chloromethane	0.334	-0.0105	0.999	
Vinyl chloride	0.431	-0.0193	0.998	
[illegible]	[illegible]	[illegible]	[illegible]	
Chloroethane	0.426	-0.0117	0.999	
Trichlorofluoromethane	0.321	-0.0117	0.999	
1,1-Dichloroethene	0.262	-0.0114	0.998	
Methylene chloride	0.256	-0.0196	0.998	
t-1,2-Dichloroethene	0.270	-0.0171	0.998	
1,1-Dichloroethane	0.262	-0.0154	0.998	
c-12Diclethene ;	0.168	-0.0210	0.997	
Bromochloromethane	0.489	-0.0123	0.998	
Chloroform	0.211	-0.0172	0.998	
1,1,1-Trichloroethane	0.241	-0.0190	0.998	
Carbon Tetracl	0.160	-0.0218	0.997	
1,2-Dichloroethane	0.348	-0.0176	0.998	
Trichloroethene	0.249	-0.0156	0.998	
1,2-Dichloropropane	0.316	-0.0170	0.999	
Dibromomethane	0.663	-0.00291	0.999	
Bromodichloromethane	0.341	-0.0100	0.999	
c-1,3-Dichloropropene	0.366	-0.0130	0.998	
t-1,3-Dichloropropene	0.483	-0.00763	0.999	
Bromochloropropane	Internal Standard			
1,1,2-Trichloroethane	0.389	-0.0375	0.998	
Tetraclethene ;	0.245	-0.0206	0.998	
Dibromochloromethane	0.625	-0.0102	0.998	
1,2-Dibromoethane (EDB)	0.755	-0.0142	0.999	
Chlorobenzene	0.613	-0.0112	0.999	
1,1,1,2-Tetrachloroethane	0.265	-0.0205	0.998	
Bromoform	1.17	0.00651	0.996	
1,4-Dichlorobutane (surr)	Surrogate			
Brbenzene;123triclprop;1122tet	0.428	-0.0179	0.999	
2-Chlorotoluene	0.670	-0.0143	0.999	
4-Chlorotoluene	0.658	-0.0175	0.999	
1,3-Dichlorobenzene	0.478	-0.0150	0.998	
1,4-Dichlorobenzene	0.442	-0.0178	0.998	
1,2-Dichlorobenzene	0.510	-0.0152	0.998	
1,2-Dibromo-3-chloropropane	3.47	-0.00920	0.997	
1,2,4-Trichlorobenzene	0.577	-0.0116	0.999	
Hexachlorobutadiene	0.463	-0.0162	0.997	
1,2,3-Trichlorobenzene	0.718	-0.0107	0.999	

PID Compound	Slope m	Intercept b	Correlation Coefficient[a] r	#
(H) Vinyl chloride				
(H) 1,1-Dichloroethene				
MTBE ; (H) t-12DCE	0.239	-0.00939	0.999	
[illegible]	[illegible]	[illegible]	[illegible]	
(H) c-12dce				
(H) 11-Diclpropene				
Benzene	0.282	-0.00754	0.999	
Fluorobenzene	Internal Standard			
(H) Trichloroethene				
a,a,a-Trifluorotoluene	Surrogate			
(H) c-13pene				
Toluene	0.304	-0.00776	0.999	
(H) t-13pene				
(H) Tetrachloroethene				
(H) Chlorobenzene				
Ethylbenzene	0.356	-0.0107	0.999	
m-Xylene ; p-Xylene	0.156	-0.0118	0.999	
o-Xylene ; Styrene	0.171	-0.0116	0.999	
Isopropylbenzene	0.462	-0.0101	0.999	
(H) Bromobenzene				
n-Propylbenzene	0.408	-0.0107	0.999	
(H) 2Cltoluene				
135-Trimethylbenzene;4-cltolu	0.159	-0.0132	0.999	
tert-Butylbenzene	0.531	-0.0104	0.999	
124-Trimethylbenzene	0.358	-0.0106	0.999	
sec-Butylbenzene	0.520	-0.0104	0.999	
(H) 13dcb				
p-Isopropyltoluene , (H) 14dcb	0.374	-0.0123	0.999	
n-Butylbenzene ; (H) 12dcb	0.269	-0.0119	0.999	
(H) 124-Triclbenzene				
(H) Hexaclbutadiene				
Naphthalene	0.952	-0.00797	0.999	
(H) 123Triclbenzene				

a = Minimum allowable correlation coefficient is 0.990.

N.C. CERTIFICATION #481

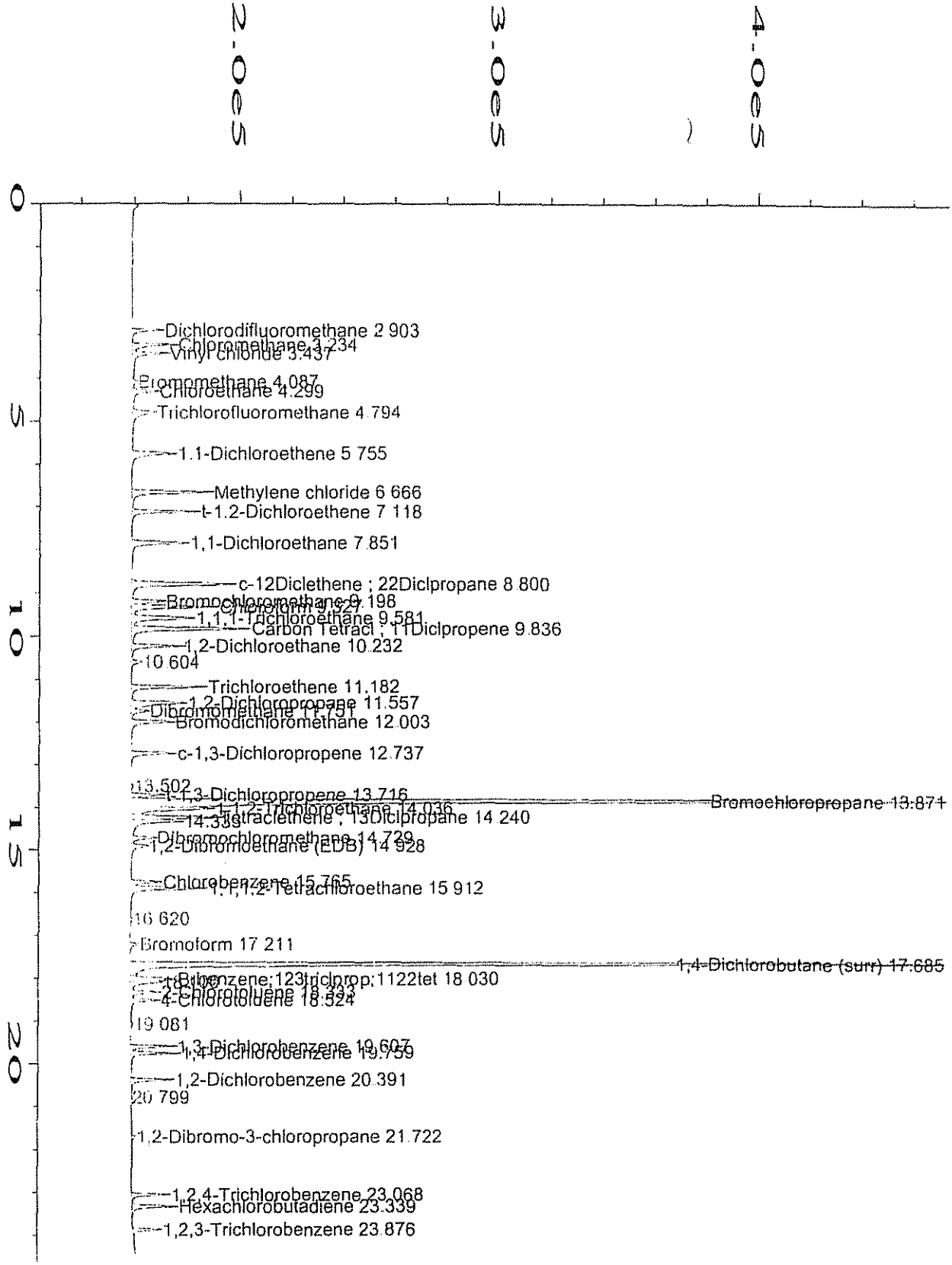
Internal Standard Report

ata File Name : C:\HPCHEM\1\DATA\092505\003F0101.D
perator : MJC
nstrument : GC3
ample Name : v0.5
un Time Bar Code:
cquired on : 25 Sep 05 06:27 PM
eport Created on: 26 Sep 05 08:03 AM
ast Recalib on : 26 SEP 05 07:59 AM
ultiplier : 1

Page Number : 1
Vial Number : 3
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

ig. 1 in C:\HPCHEM\1\DATA\092505\003F0101.D

et Time	Area	Type	Width	Ref#	µg/L	Name
2.903	41048	BV	0.049	1	0.0629	Dichlorodifluoromethane
3.234	68405	VV	0.056	1	0.0970	Chloromethane
3.437	75843	VV	0.074	1	-0.0306	Vinyl chloride
4.087	13537	VV	0.083	1	0.429	Bromomethane
4.299	59196	VV	0.083	1	0.111	Chloroethane
4.794	83330	VV	0.118	1	0.147	Trichlorofluoromethane
5.755	94713	VV	0.080	1	0.102	1,1-Dichloroethene
6.666	137970	VV	0.066	1	0.0181	Methylene chloride
7.118	108450	VV	0.063	1	-0.0264	t-1,2-Dichloroethene
7.851	106503	VV	0.072	1	0.0117	1,1-Dichloroethane
8.800	189678	PV	0.070	1	-0.274	c-12Diclethene ; 22Diclpropane
9.198	53230	VV	0.062	1	0.0936	Bromochloromethane
9.327	146981	VV	0.067	1	0.0164	Chloroform
9.581	127507	VV	0.077	1	-0.0765	1,1,1-Trichloroethane
9.836	217770	VV	0.071	1	-0.187	Carbon Tetracl ; 11Diclpropene
10.232	89054	VV	0.067	1	-0.00601	1,2-Dichloroethane
11.182	114105	VV	0.059	1	0.0118	Trichloroethene
11.557	114691	VV	0.076	1	0.152	1,2-Dichloropropane
11.751	32244	VV	0.064	1	0.374	Dibromomethane
12.003	80274	VV	0.070	1	0.223	Bromodichloromethane
12.737	73089	VB	0.062	1	0.0807	c-1,3-Dichloropropene
13.716	48881	VV	0.057	1	0.231	t-1,3-Dichloropropene
13.871	1715917	VV	0.074	1-I	40.000	Bromochloropropane
14.036	167350	VV	0.073	1	-0.0114	1,1,2-Trichloroethane
14.240	146285	VV	0.064	1	-0.0271	Tetraclethene ; 13Diclpropane
14.729	49284	VV	0.073	1	0.283	Dibromochloromethane
14.928	47154	VV	0.096	1	0.244	1,2-Dibromoethane (EDB)
15.765	44513	VV	0.055	1	0.172	Chlorobenzene
15.912	136084	VV	0.070	1	-0.00563	1,1,1,2-Tetrachloroethane
17.211	16019	BV	0.066	1	0.671	Bromoform
17.685	1324391	PV	0.058	1	109.430	1,4-Dichlorobutane (surr)
18.030	88520	VV	0.073	1	0.460	Brbenzene;123triclprop;1122tet
18.333	49245	VV	0.061	1	0.187	2-Chlorotoluene
18.524	53300	VV	0.067	1	0.102	4-Chlorotoluene
19.607	61171	BV	0.053	1	0.0575	1,3-Dichlorobenzene
19.759	74214	VV	0.058	1	0.0260	1,4-Dichlorobenzene
20.391	60925	PV	0.056	1	0.0908	1,2-Dichlorobenzene
21.722	16153	BB	0.115	1	0.901	1,2-Dibromo-3-chloropropane
23.068	51709	BV	0.053	1	0.219	1,2,4-Trichlorobenzene
23.339	69669	VV	0.058	1	0.0658	Hexachlorobutadiene
23.876	38009	PV	0.051	1	0.197	1,2,3-Trichlorobenzene



Data File Name	: C:\HPCHEM\1\DATA\092505\003F0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 3
Sample Name	: v0.5	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 25 Sep 05 06:27 PM	Instrument Method:	8021_HAL.MTH
Report Created on:	26 Sep 05 08:03 AM	Analysis Method	: 8021_HAL.MTH
Last Recalib on	: 26 SEP 05 07:59 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

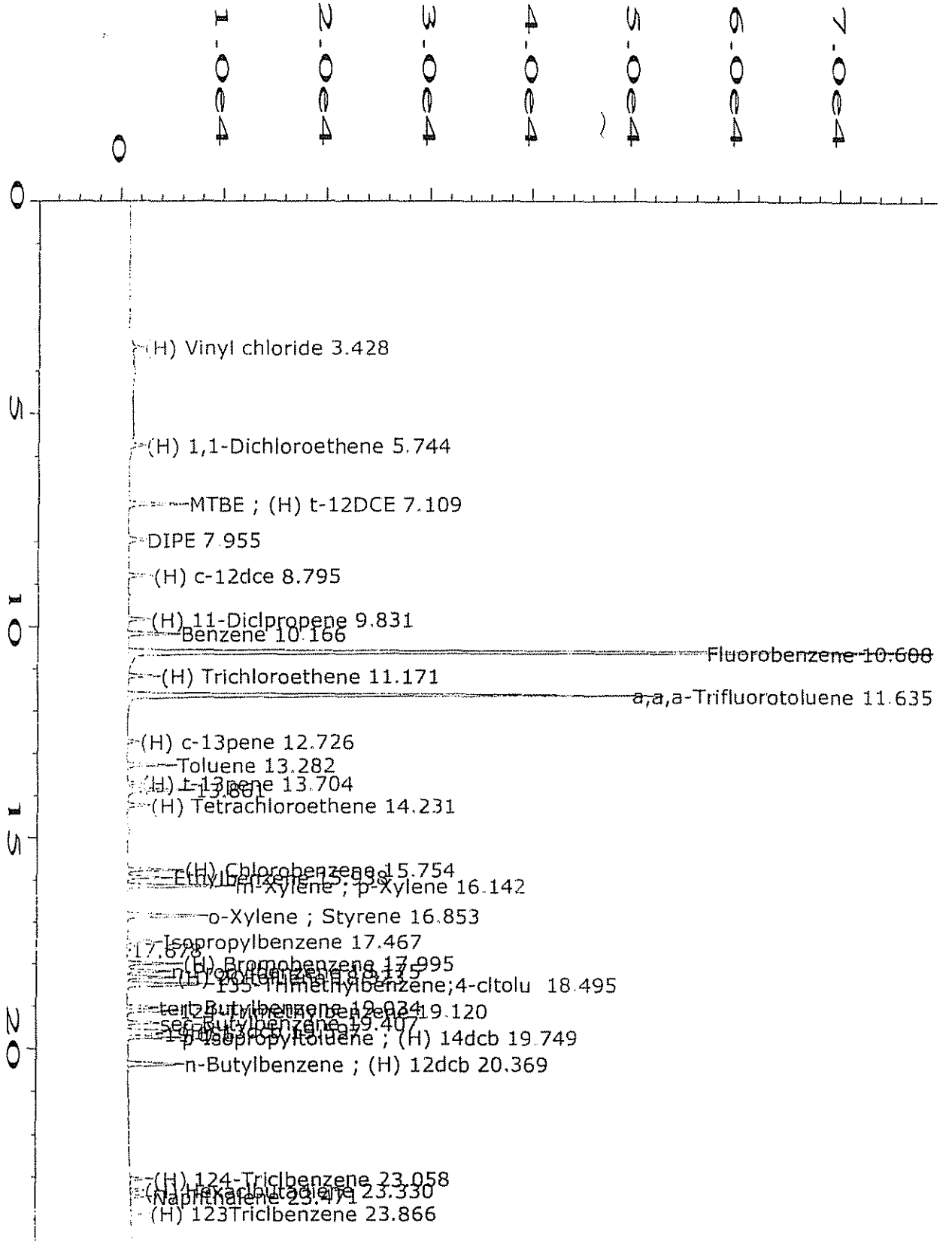
ıta File Name : C:\HPCHEM\1\DATA\092505\003R0101.D
ɔerator : MJC
ıstrument : GC3
ample Name : v0.5
ın Time Bar Code:
cquired on : 25 Sep 05 06:27 PM
eport Created on: 26 Sep 05 08:03 AM
ast Recalib on : 26 SEP 05 07:47 AM
ıltiplier : 1

Page Number : 1
Vial Number : 3
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

ig. 2 in C:\HPCHEM\1\DATA\092505\003R0101.D

et Time	Area	Type	Width	Ref#	µg/L	Name
3.428	5884	BB	0.070	1	0.244	(H) Vinyl chloride
5.744	6740	BV	0.065	1	0.250	(H) 1,1-Dichloroethene
7.109	22896	BB	0.059	1	0.482	MTBE ; (H) t-12DCE
7.955	8985	BV	0.078	1	0.148	DIPE
8.795	8938	BB	0.057	1	0.317	(H) c-12dce
9.831	8125	BB	0.059	1	0.305	(H) 11-Diclpropene
10.166	18786	BB	0.057	1	0.278	Benzene
10.608	380629	BV	0.057	1-I	40.000	Fluorobenzene
11.171	11269	VB	0.056	1	0.301	(H) Trichloroethene
11.635	210116	BB	0.062	1	101.957	a,a,a-Trifluorotoluene
12.726	4149	BB	0.056	1	0.266	(H) c-13pene
13.282	17911	BB	0.058	1	0.279	Toluene
13.704	4694	BV	0.054	1	0.256	(H) t-13pene
14.231	8419	BB	0.059	1	0.301	(H) Tetrachloroethene
15.754	19146	BV	0.054	1	0.279	(H) Chlorobenzene
15.938	16070	VV	0.056	1	0.198	Ethylbenzene
16.142	37327	VB	0.055	1	0.326	m-Xylene ; p-Xylene
16.853	34559	BB	0.070	1	0.368	o-Xylene ; Styrene
17.467	12560	BV	0.056	1	0.224	Isopropylbenzene
17.995	18275	BV	0.052	1	0.208	(H) Bromobenzene
18.175	14341	VV	0.052	1	0.198	n-Propylbenzene
18.323	15950	VV	0.052	1	0.200	(H) 2Cltoluene
18.495	37744	VB	0.068	1	0.241	135-Trimethylbenzene;4-cltolu
19.034	10826	BV	0.054	1	0.199	tert-Butylbenzene
19.120	16572	VB	0.051	1	0.212	124-Trimethylbenzene
19.407	11065	BV	0.054	1	0.194	sec-Butylbenzene
19.597	16206	VV	0.047	1	0.243	(H) 13dcb
19.749	16055	VB	0.047	1	0.340	p-Isopropyltoluene ; (H) 14dcb
20.369	21733	BB	0.063	1	0.310	n-Butylbenzene ; (H) 12dcb
23.058	6774	BV	0.046	1	0.225	(H) 124-Triclbenzene
23.330	4704	BV	0.053	1	0.234	(H) Hexaclbutadiene
23.471	6122	VB	0.045	1	0.338	Naphthalene
23.866	5583	BB	0.046	1	0.324	(H) 123Triclbenzene

Calibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\092505\003R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 3
Sample Name	: v0.5	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 25 Sep 05 06:27 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 26 Sep 05 08:03 AM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 26 SEP 05 07:47 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

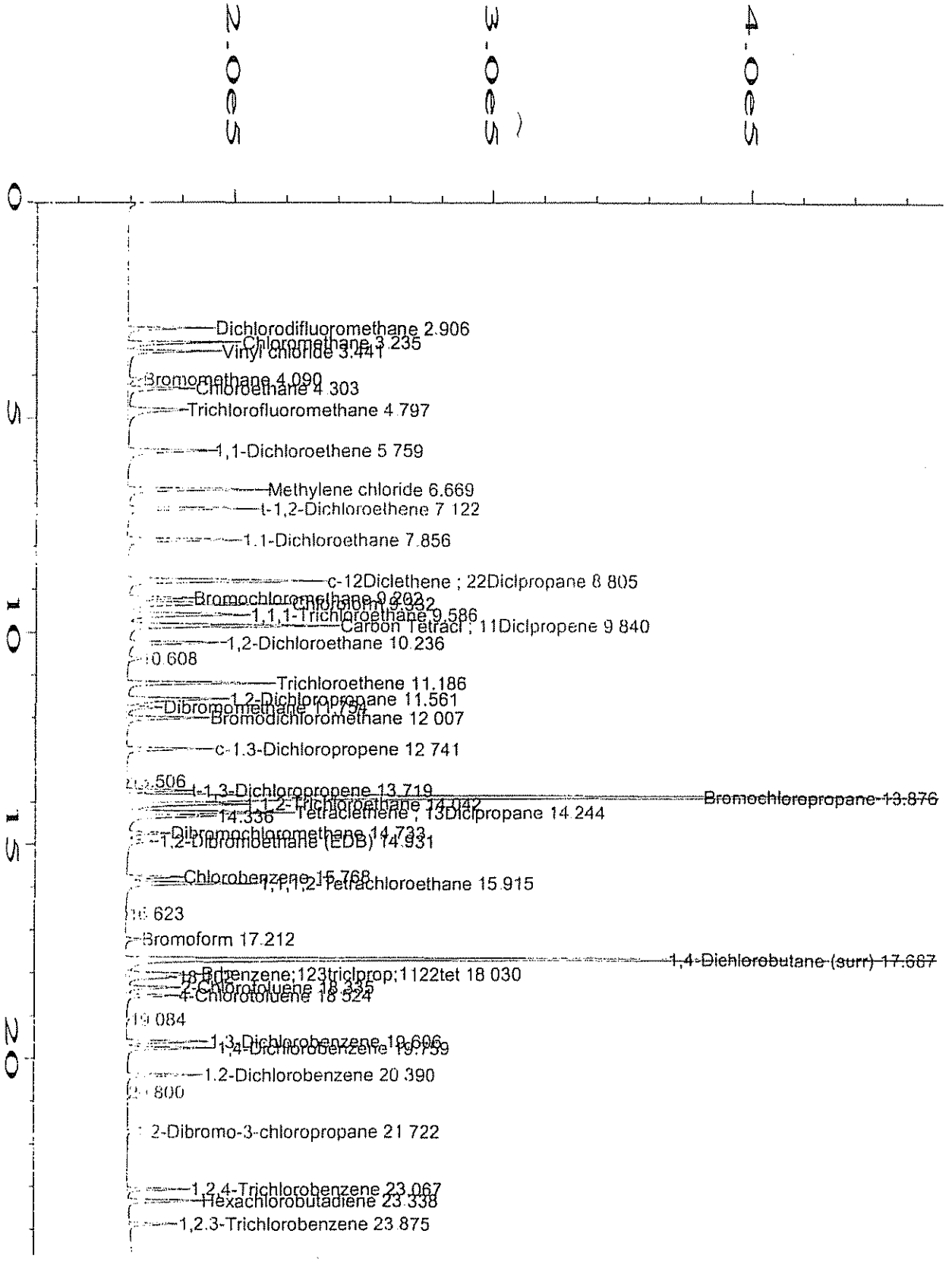
Internal Standard Report

ata File Name : C:\HPCHEM\1\DATA\092505\004F0101.D
perator : MJC
nstrument : GC3
ample Name : v1
un Time Bar Code:
cquired on : 25 Sep 05 06:58 PM
eport Created on: 26 Sep 05 08:03 AM
ast Recalib on : 26 SEP 05 07:59 AM
ultiplier : 1

Page Number : 1
Vial Number : 4
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

ig. 1 in C:\HPCHEM\1\DATA\092505\004F0101.D

et Time	Area	Type	Width	Ref#	µg/L	Name
2.906	101881	BV	0.045	1	0.733	Dichlorodifluoromethane
3.235	159116	VV	0.055	1	0.770	Chloromethane
3.441	156576	VV	0.061	1	0.738	Vinyl chloride
4.090	28784	VV	0.072	1	0.969	Bromomethane
4.303	131152	VV	0.073	1	0.790	Chloroethane
4.797	178670	VV	0.111	1	0.824	Trichlorofluoromethane
5.759	191592	VV	0.079	1	0.663	1,1-Dichloroethene
6.669	239856	VV	0.065	1	0.587	Methylene chloride
7.122	208585	VV	0.064	1	0.568	t-1,2-Dichloroethene
7.856	210590	VV	0.070	1	0.612	1,1-Dichloroethane
8.805	362144	VV	0.071	1	1.003	c-12Diclethene ; 22Diclpropane
9.202	104764	VV	0.061	1	0.649	Bromochloromethane
9.332	277760	VV	0.067	1	0.624	Chloroform
9.586	244303	VV	0.077	1	0.543	1,1,1-Trichloroethane
9.840	381561	VV	0.070	1	0.962	Carbon Tetracl ; 11Diclpropene
10.236	165963	VV	0.065	1	0.581	1,2-Dichloroethane
11.186	223627	VV	0.060	1	0.612	Trichloroethene
11.561	197837	VV	0.074	1	0.725	1,2-Dichloropropane
11.754	62116	VV	0.063	1	0.808	Dibromomethane
12.007	149138	VV	0.068	1	0.737	Bromodichloromethane
12.741	139970	VV	0.063	1	0.618	c-1,3-Dichloropropene
13.719	93539	VV	0.057	1	0.705	t-1,3-Dichloropropene
13.876	1765781	VV	0.071	1-I	40.000	Bromochloropropane
14.042	234387	VV	0.076	1	0.538	1,1,2-Trichloroethane
14.244	263113	VV	0.061	1	1.223	Tetraclethene ; 13Diclpropane
14.733	80091	VV	0.068	1	0.700	Dibromochloromethane
14.931	76697	VV	0.084	1	0.727	1,2-Dibromoethane (EDB)
15.768	80884	VV	0.056	1	0.660	Chlorobenzene
15.915	230579	VV	0.068	1	0.539	1,1,1,2-Tetrachloroethane
17.212	26738	BV	0.065	1	0.931	Bromoform
17.687	1279616	PV	0.057	1	102.745	1,4-Dichlorobutane (surr)
18.030	136628	VV	0.070	1	1.788	Brbenzene;123triclprop;1122tet
18.335	82884	VV	0.058	1	0.676	2-Chlorotoluene
18.524	90172	VV	0.060	1	0.629	4-Chlorotoluene
19.606	107768	PV	0.052	1	0.544	1,3-Dichlorobenzene
19.759	127096	VV	0.053	1	0.536	1,4-Dichlorobenzene
20.390	103940	VV	0.053	1	0.568	1,2-Dichlorobenzene
21.722	22001	BB	0.098	1	1.326	1,2-Dibromo-3-chloropropane
23.067	81662	BV	0.051	1	0.591	1,2,4-Trichlorobenzene
23.338	113595	VV	0.060	1	0.507	Hexachlorobutadiene
23.875	67829	PV	0.053	1	0.665	1,2,3-Trichlorobenzene



ata File Name	: C:\HPCHEM\1\DATA\092505\004F0101.D		
perator	: MJC	Page Number	: 1
nstrument	: GC3	Vial Number	: 4
ample Name	: v1	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 25 Sep 05 06:58 PM	Instrument Method	: 8021_HAL.MTH
eport Created on	: 26 Sep 05 08:03 AM	Analysis Method	: 8021_HAL.MTH
ast Recalib on	: 26 SEP 05 07:59 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	: 40

Internal Standard Report

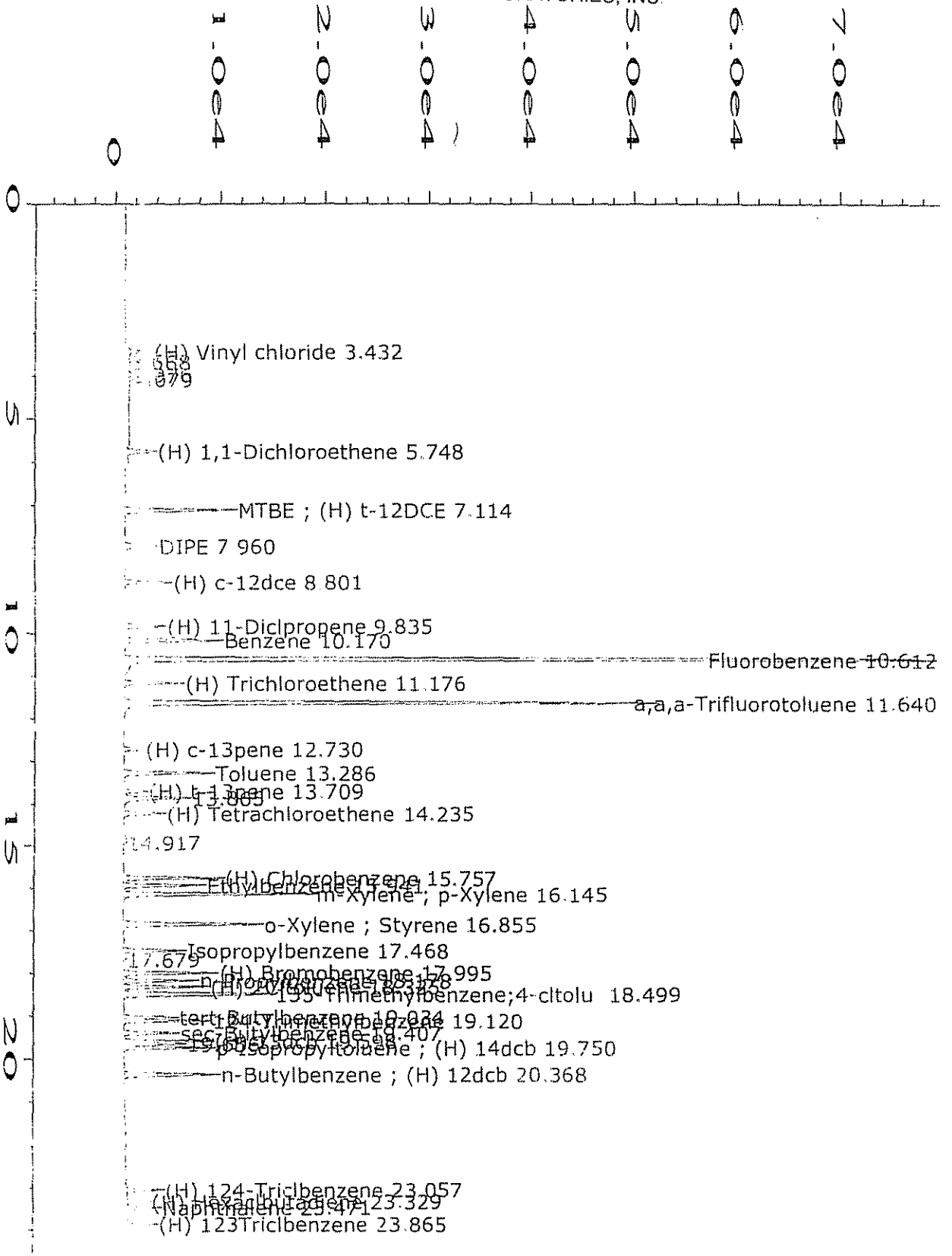
ata File Name : C:\HPCHEM\1\DATA\092505\004R0101.D
perator : MJC
nstrument : GC3
ample Name : v1
un Time Bar Code:
cquired on : 25 Sep 05 06:58 PM
eport Created on: 26 Sep 05 08:04 AM
ast Recalib on : 26 SEP 05 07:47 AM
ultiplier : 1

Page Number : 1
Vial Number : 4
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

ig. 2 in C:\HPCHEM\1\DATA\092505\004R0101.D

et Time	Area	Type	Width	Ref#	µg/L	Name
3.432	10799	BV	0.059	1	1.089	(H) Vinyl chloride
5.748	11510	BV	0.064	1	0.609	(H) 1,1-Dichloroethene
7.114	42164	BB	0.060	1	1.480	MTBE ; (H) t-12DCE
7.960	16344	BB	0.078	1	0.635	DIPE
8.801	16431	BB	0.056	1	0.810	(H) c-12dce
9.835	14977	BB	0.059	1	0.794	(H) 11-Diclpropene
10.170	34774	BB	0.058	1	0.766	Benzene
10.612	375666	BV	0.057	1-I	40.000	Fluorobenzene
11.176	20689	VB	0.055	1	0.797	(H) Trichloroethene
11.640	206742	BB	0.063	1	101.645	a,a,a-Trifluorotoluene
12.730	7260	BB	0.055	1	0.727	(H) c-13pene
13.286	32359	BB	0.058	1	0.755	Toluene
13.709	8043	BV	0.054	1	0.699	(H) t-13pene
14.235	15574	VB	0.060	1	0.792	(H) Tetrachloroethene
15.757	33131	BV	0.053	1	0.739	(H) Chlorobenzene
15.941	28291	VV	0.055	1	0.671	Ethylbenzene
16.145	65142	VB	0.054	1	1.271	m-Xylene ; p-Xylene
16.855	59064	BB	0.070	1	1.281	o-Xylene ; Styrene
17.468	21736	BV	0.055	1	0.684	Isopropylbenzene
17.995	30046	BV	0.051	1	0.640	(H) Bromobenzene
18.178	24609	VV	0.051	1	0.653	n-Propylbenzene
18.325	27146	VV	0.049	1	0.649	(H) 2Cltoluene
18.499	63929	VB	0.070	1	1.144	135-Trimethylbenzene;4-cltolu
19.034	18590	BV	0.053	1	0.647	tert-Butylbenzene
19.120	27684	VB	0.050	1	0.645	124-Trimethylbenzene
19.407	18954	BV	0.054	1	0.640	sec-Butylbenzene
19.598	27116	VV	0.047	1	0.665	(H) 13dcb
19.750	26669	VB	0.047	1	1.205	p-Isopropyltoluene ; (H) 14dcb
20.368	36423	BB	0.063	1	1.169	n-Butylbenzene ; (H) 12dcb
23.057	10905	BB	0.046	1	0.609	(H) 124-Triclbenzene
23.329	7587	BV	0.052	1	0.639	(H) Hexaclbutadiene
23.471	9587	VB	0.045	1	0.698	Naphthalene
23.865	8614	BB	0.046	1	0.681	(H) 123Triclbenzene

alibration table contains at least one peak with amt = 0



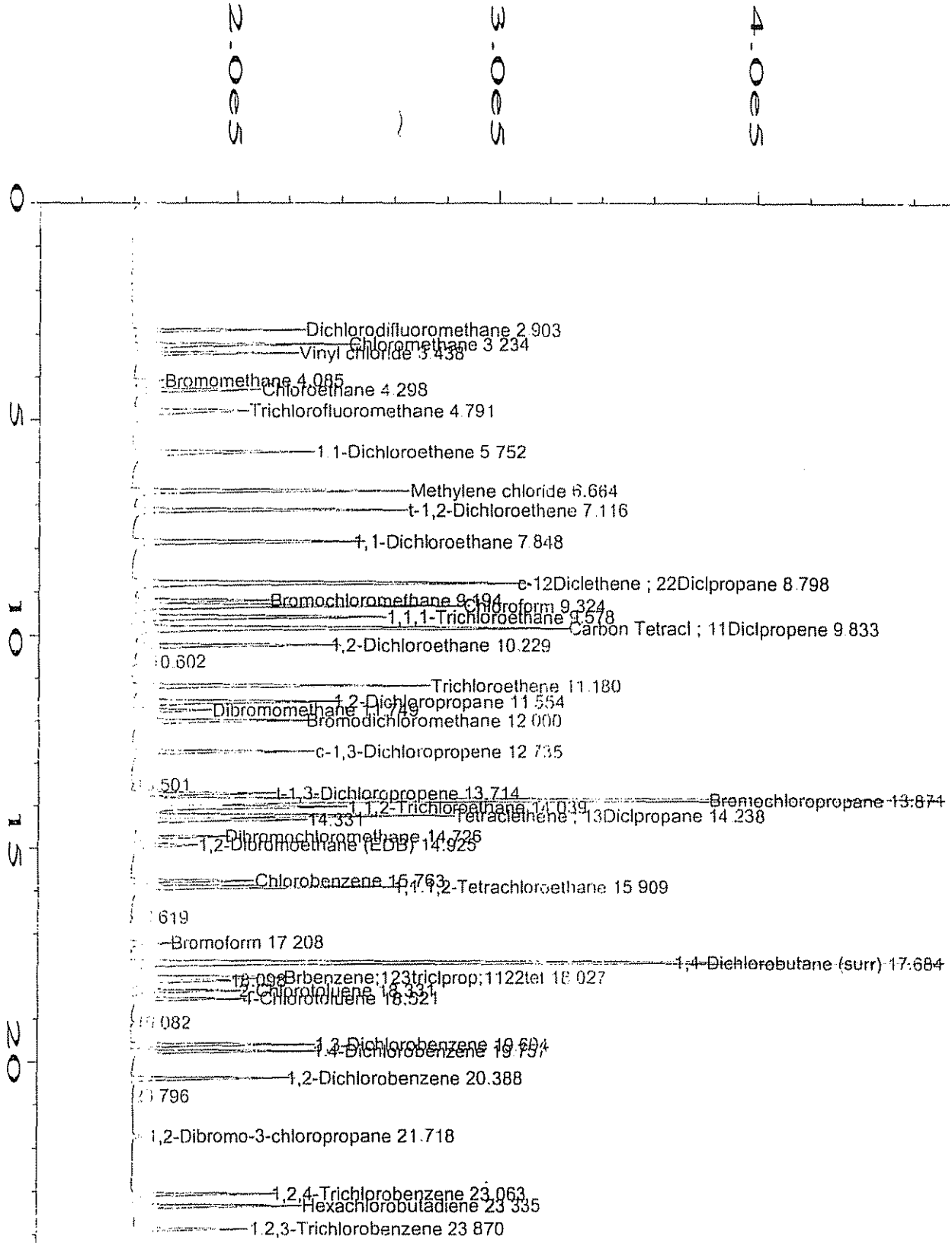
Data File Name	: C:\HPCHEM\1\DATA\092505\004R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 4
Sample Name	: v1	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 25 Sep 05 06:58 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 26 Sep 05 08:04 AM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 26 SEP 05 07:47 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

ta File Name	: C:\HPCHEM\1\DATA\092505\005F0101.D		
erator	: MJC	Page Number	: 1
strument	: GC3	Vial Number	: 5
mple Name	: v2	Injection Number	: 1
n Time Bar Code:		Sequence Line	: 1
quired on	: 25 Sep 05 07:29 PM	Instrument Method	: 8021_HAL.MTH
port Created on	: 26 Sep 05 08:04 AM	Analysis Method	: 8021_HAL.MTH
st Recalib on	: 26 SEP 05 07:59 AM	Sample Amount	: 0
ltiplier	: 1	ISTD Amount	: 40

g. 1 in C:\HPCHEM\1\DATA\092505\005F0101.D

et Time	Area	Type	Width	Ref#	µg/L	Name
2.903	209879	BV	0.046	1	1.910	Dichlorodifluoromethane
3.234	313541	VV	0.054	1	1.905	Chloromethane
3.438	278376	VV	0.061	1	1.886	Vinyl chloride
4.085	57271	VV	0.064	1	1.973	Bromomethane
4.298	251790	VV	0.072	1	1.918	Chloroethane
4.791	337614	VV	0.104	1	1.943	Trichlorofluoromethane
5.752	403461	VV	0.087	1	1.887	1,1-Dichloroethene
6.664	474854	VV	0.066	1	1.910	Methylene chloride
7.116	436213	VV	0.063	1	1.921	t-1,2-Dichloroethene
7.848	436227	VV	0.071	1	1.911	1,1-Dichloroethane
8.798	728532	VV	0.073	1	3.716	c-12Diclethene ; 22Diclpropane
9.194	222113	VV	0.062	1	1.914	Bromochloromethane
9.324	558519	VV	0.067	1	1.929	Chloroform
9.578	498640	VV	0.076	1	1.893	1,1,1-Trichloroethane
9.833	800397	VV	0.071	1	3.925	Carbon Tetracl ; 11Diclpropene
10.229	342301	VV	0.066	1	1.932	1,2-Dichloroethane
11.180	451510	VV	0.061	1	1.860	Trichloroethene
11.554	383713	VV	0.071	1	2.016	1,2-Dichloropropane
11.749	140717	VV	0.064	1	1.955	Dibromomethane
12.000	319086	VV	0.070	1	2.011	Bromodichloromethane
12.735	302930	VV	0.065	1	1.931	c-1,3-Dichloropropene
13.714	208476	VV	0.057	1	1.927	t-1,3-Dichloropropene
13.871	1794285	VV	0.075	1-I	40.000	Bromochloropropane
14.039	406248	VV	0.071	1	1.998	1,1,2-Trichloroethane
14.238	508903	VV	0.064	1	3.864	Tetraclethene ; 13Diclpropane
14.726	171999	VV	0.069	1	1.967	Dibromochloromethane
14.925	154288	VV	0.081	1	2.016	1,2-Dibromoethane (EDB)
15.763	173521	VV	0.055	1	1.910	Chlorobenzene
15.909	474209	VV	0.069	1	1.959	1,1,1,2-Tetrachloroethane
17.208	70135	BV	0.061	1	2.004	Bromoform
17.684	1368373	PV	0.057	1	108.126	1,4-Dichlorobutane (surr)
18.027	278865	VV	0.068	1	5.807	Brbenzene;123triclprop;1122tet
18.331	168041	VV	0.057	1	1.929	2-Chlorotoluene
18.521	179808	VV	0.057	1	1.925	4-Chlorotoluene
19.604	232669	PV	0.050	1	1.860	1,3-Dichlorobenzene
19.757	261465	VV	0.056	1	1.844	1,4-Dichlorobenzene
20.388	221203	VV	0.052	1	1.884	1,2-Dichlorobenzene
21.718	29523	BB	0.070	1	1.884	1,2-Dibromo-3-chloropropane
23.063	188658	BV	0.053	1	1.952	1,2,4-Trichlorobenzene
23.335	251718	VV	0.060	1	1.919	Hexachlorobutadiene
23.870	153426	PV	0.053	1	2.019	1,2,3-Trichlorobenzene



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nstrument	: GC3	Vial Number	: 5
ample Name	: v2	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 25 Sep 05 07:29 PM	Instrument Method	: 8021_HAL.MTH
eport Created on	: 26 Sep 05 08:04 AM	Analysis Method	: 8021_HAL.MTH
ast Recalib on	: 26 SEP 05 07:59 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	: 40

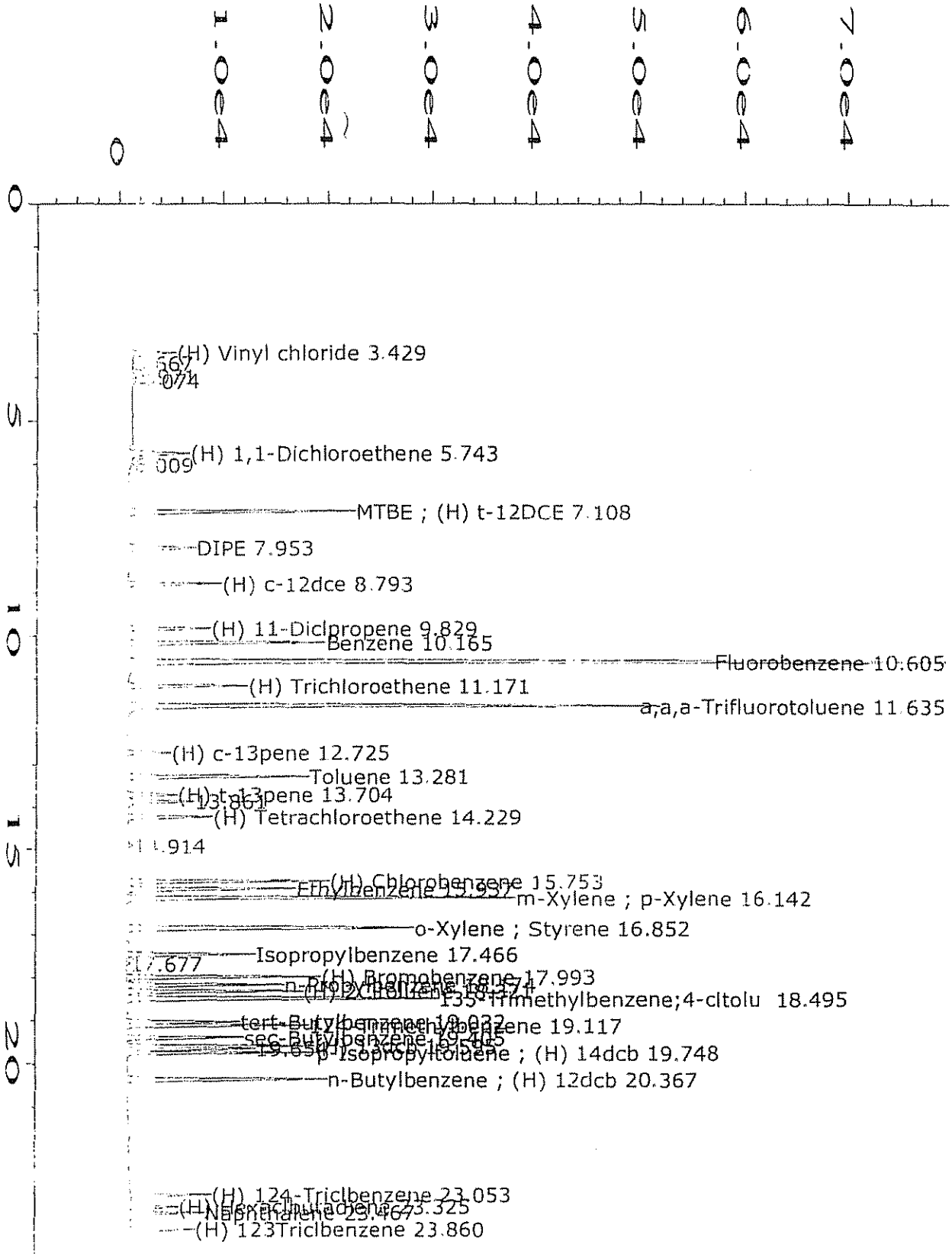
Internal Standard Report

ata File Name	: C:\HPCHEM\1\DATA\092505\005R0101.D		
perator	: MJC	Page Number	: 1
nstrument	: GC3	Vial Number	: 5
ample Name	: v2	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 25 Sep 05 07:29 PM	Instrument Method:	8021_HAL.MTH
eport Created on:	26 Sep 05 08:04 AM	Analysis Method	: 8021_pid.MTH
ast Recalib on	: 26 SEP 05 07:47 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	: 40

ig. 2 in C:\HPCHEM\1\DATA\092505\005R0101.D

et Time	Area	Type	Width	Ref#	µg/L	Name
3.429	16615	PV	0.054	1	2.100	(H) Vinyl chloride
5.743	28201	BV	0.071	1	1.860	(H) 1,1-Dichloroethene
7.108	84446	BB	0.059	1	3.675	MTBE ; (H) t-12DCE
7.953	33388	BB	0.078	1	1.766	DIPE
8.793	32595	BB	0.056	1	1.874	(H) c-12dce
9.829	30079	BB	0.058	1	1.875	(H) 11-Diclpropene
10.165	69923	BB	0.057	1	1.842	Benzene
10.605	372362	BV	0.058	1-I	40.000	Fluorobenzene
11.171	41032	VB	0.055	1	1.869	(H) Trichloroethene
11.635	206523	BV	0.062	1	102.438	a,a,a-Trifluorotoluene
12.725	14754	BV	0.055	1	1.840	(H) c-13pene
13.281	66970	BV	0.059	1	1.897	Toluene
13.704	16734	VV	0.054	1	1.850	(H) t-13pene
14.229	31382	PB	0.059	1	1.882	(H) Tetrachloroethene
15.753	66681	BV	0.053	1	1.842	(H) Chlorobenzene
15.937	57392	VV	0.055	1	1.796	Ethylbenzene
16.142	132042	VB	0.055	1	3.544	m-Xylene ; p-Xylene
16.852	120112	BB	0.070	1	3.553	o-Xylene ; Styrene
17.466	44222	BV	0.055	1	1.812	Isopropylbenzene
17.993	60920	BV	0.051	1	1.770	(H) Bromobenzene
18.174	50227	VV	0.052	1	1.788	n-Propylbenzene
18.321	55498	VV	0.050	1	1.783	(H) 2Cltoluene
18.495	131113	VB	0.067	1	3.457	135-Trimethylbenzene;4-cltolu
19.032	38162	BV	0.053	1	1.774	tert-Butylbenzene
19.117	56588	VB	0.050	1	1.769	124-Trimethylbenzene
19.405	39019	BV	0.054	1	1.772	sec-Butylbenzene
19.595	56397	VV	0.047	1	1.793	(H) 13dcb
19.748	55198	VB	0.047	1	3.523	p-Isopropyltoluene ; (H) 14dcb
20.367	76405	BB	0.064	1	3.503	n-Butylbenzene ; (H) 12dcb
23.053	23892	BB	0.047	1	1.811	(H) 124-Triclbenzene
23.325	15606	BV	0.052	1	1.761	(H) Hexaclbutadiene
23.467	20807	VV	0.045	1	1.859	Naphthalene
23.860	18552	BB	0.046	1	1.846	(H) 123Triclbenzene

alibration table contains at least one peak with amt = 0



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nstrument	: GC3	Vial Number	: 5
ample Name	: v2	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 25 Sep 05 07:29 PM	Instrument Method	: 8021_HAL.MTH
eport Created on	: 26 Sep 05 08:04 AM	Analysis Method	: 8021_pid.MTH
ast Recalib on	: 26 SEP 05 07:47 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	: 40

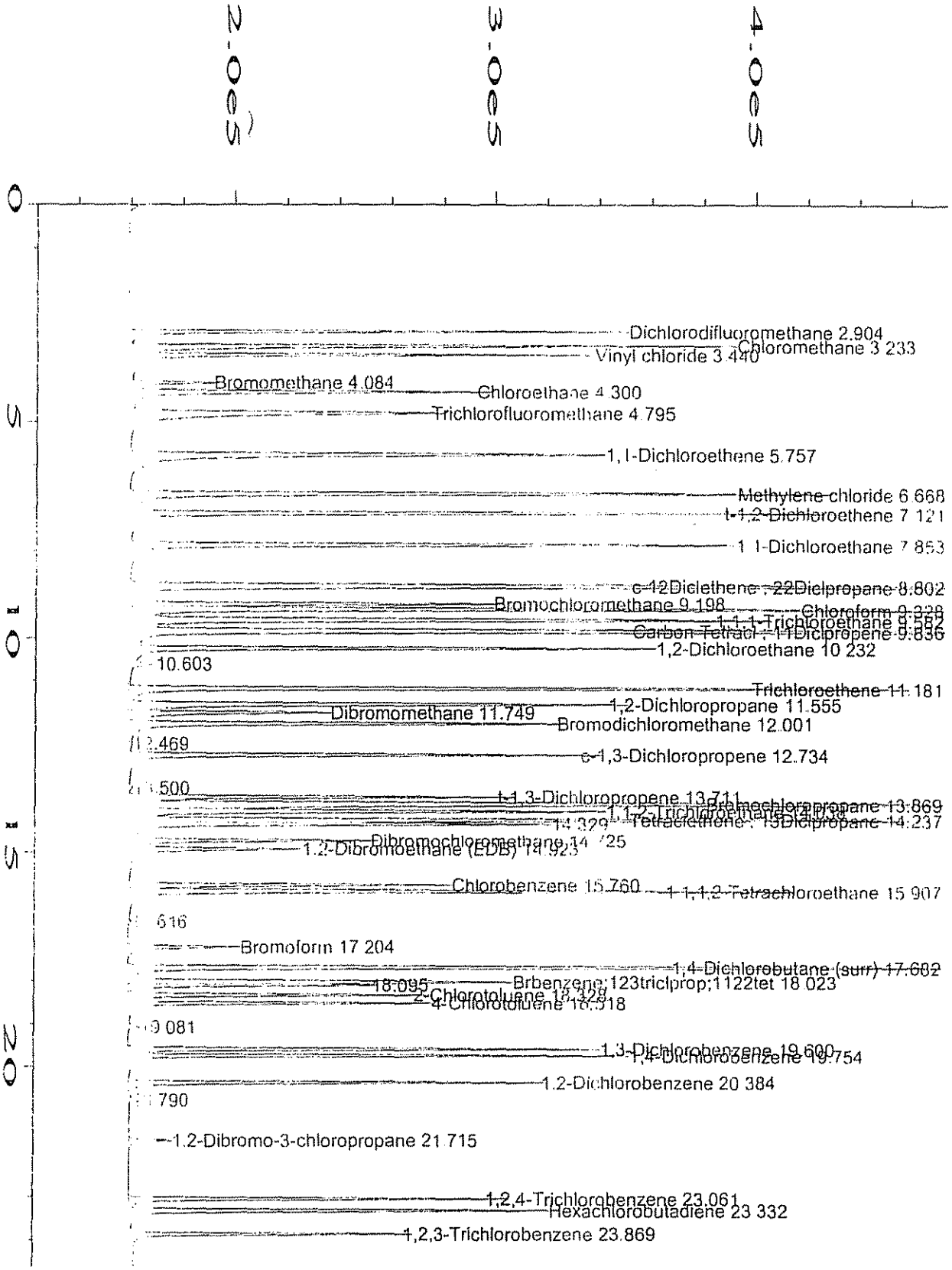
Internal Standard Report

ta File Name : C:\HPCHEM\1\DATA\092505\006F0101.D
erator : MJC
istrument : GC3
mple Name : v5
n Time Bar Code:
quired on : 25 Sep 05 08:00 PM
port Created on: 26 Sep 05 08:04 AM
st Recalib on : 26 SEP 05 07:59 AM
ltiplier : 1

Page Number : 1
Vial Number : 6
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

g. 1 in C:\HPCHEM\1\DATA\092505\006F0101.D

et Time	Area	Type	Width	Ref#	µg/L	Name
2.904	550823	BV	0.044	1	5.503	Dichlorodifluoromethane
3.233	829551	VV	0.052	1	5.575	Chloromethane
3.440	687644	VV	0.056	1	5.630	Vinyl chloride
4.084	146165	VV	0.066	1	5.003	Bromomethane
4.300	648341	VV	0.071	1	5.509	Chloroethane
4.795	860389	VV	0.098	1	5.507	Trichlorofluoromethane
5.757	1072342	VV	0.085	1	5.622	1,1-Dichloroethene
6.668	1178933	VV	0.067	1	5.740	Methylene chloride
7.121	1103371	VV	0.063	1	5.748	t-1,2-Dichloroethene
7.853	1119561	VV	0.071	1	5.711	1,1-Dichloroethane
8.802	1849764	VV	0.070	1	11.741	c-12Diclethene ; 22Diclpropane
9.198	576043	VV	0.061	1	5.598	Bromochloromethane
9.328	1403592	VV	0.067	1	5.726	Chloroform
9.582	1253738	VV	0.075	1	5.763	1,1,1-Trichloroethane
9.836	1971135	VV	0.071	1	11.914	Carbon Tetracl ; 11Diclpropene
10.232	854083	VV	0.063	1	5.715	1,2-Dichloroethane
11.181	1167812	VV	0.061	1	5.652	Trichloroethene
11.555	855070	VV	0.070	1	5.167	1,2-Dichloropropane
11.749	358131	VV	0.067	1	5.013	Dibromomethane
12.001	758684	VV	0.068	1	5.182	Bromodichloromethane
12.734	755762	VV	0.064	1	5.448	c-1,3-Dichloropropene
13.711	542273	VV	0.058	1	5.351	t-1,3-Dichloropropene
13.869	1848998	VV	0.071	1-I	40.000	Bromochloropropane
14.038	831849	VV	0.068	1	5.483	1,1,2-Trichloroethane
14.237	1237459	VV	0.064	1	11.428	Tetraclethene ; 13Diclpropane
14.725	418983	VV	0.066	1	5.245	Dibromochloromethane
14.923	362204	VV	0.076	1	5.343	1,2-Dibromoethane (EDB)
15.760	446260	VV	0.055	1	5.463	Chlorobenzene
15.907	1136372	VV	0.068	1	5.681	1,1,1,2-Tetrachloroethane
17.204	188025	PV	0.064	1	4.810	Bromoform
17.682	1353372	VV	0.057	1	103.776	1,4-Dichlorobutane (surr)
18.023	672182	VV	0.067	1	16.524	Brbenzene;123triclprop;1122tet
18.328	421486	VV	0.054	1	5.532	2-Chlorotoluene
18.518	438389	VV	0.056	1	5.535	4-Chlorotoluene
19.600	602943	PV	0.051	1	5.627	1,3-Dichlorobenzene
19.754	671792	VV	0.052	1	5.706	1,4-Dichlorobenzene
20.384	561324	VV	0.053	1	5.569	1,2-Dichlorobenzene
21.715	68953	BB	0.061	1	4.793	1,2-Dibromo-3-chloropropane
23.061	473409	BV	0.049	1	5.439	1,2,4-Trichlorobenzene
23.332	621292	VV	0.059	1	5.558	Hexachlorobutadiene
23.869	366901	VV	0.054	1	5.266	1,2,3-Trichlorobenzene



ata File Name	: C:\HPCHEM\1\DATA\092505\006F0101.D		
perator	: MJC	Page Number	: 1
nstrument	: GC3	Vial Number	: 6
ample Name	: v5	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 25 Sep 05 08:00 PM	Instrument Method:	8021_HAL.MTH
eport Created on:	26 Sep 05 08:04 AM	Analysis Method	: 8021_HAL.MTH
ast Recalib on	: 25 SEP 05 07:59 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	: 40

Internal Standard Report

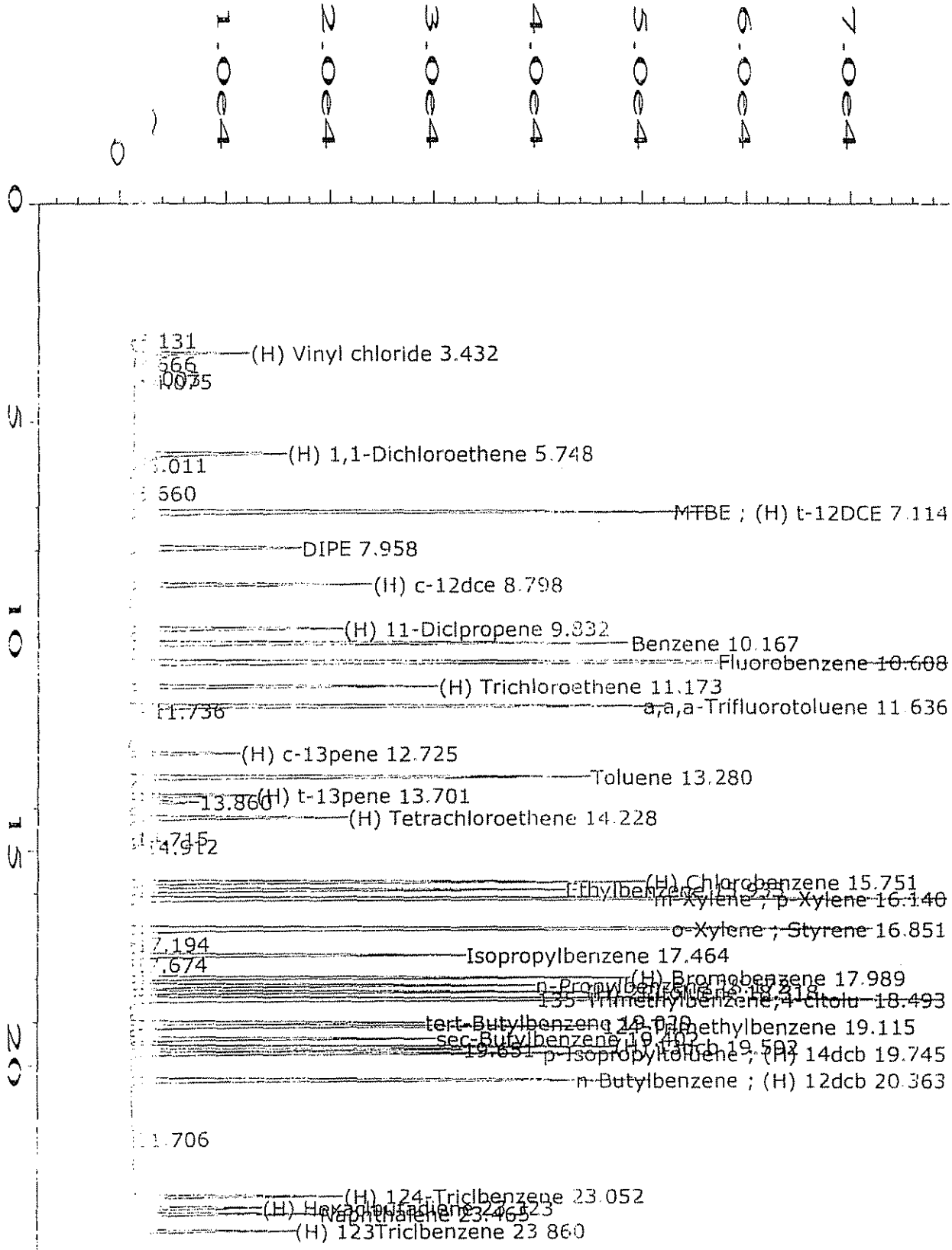
ata File Name : C:\HPCHEM\1\DATA\092505\006R0101.D
erator : MJC
nstrument : GC3
mple Name : v5
n Time Bar Code:
quired on : 25 Sep 05 08:00 PM
port Created on: 26 Sep 05 08:04 AM
st Recalib on : 26 SEP 05 07:47 AM
ltiplier : 1

Page Number : 1
Vial Number : 6
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

g. 2 in C:\HPCHEM\1\DATA\092505\006R0101.D

t Time	Area	Type	Width	Ref#	µg/L	Name
3.432	35398	PV	0.047	1	5.204	(H) Vinyl chloride
5.748	73090	BV	0.074	1	5.108	(H) 1,1-Dichloroethene
7.114	211461	BB	0.059	1	10.021	MTBE ; (H) t-12DCE
7.958	82284	BB	0.078	1	4.888	DIPE
8.798	83660	BB	0.056	1	5.111	(H) c-12dce
9.832	77037	BV	0.058	1	5.108	(H) 11-Diclpropene
10.167	180759	VV	0.059	1	5.107	Benzene
10.608	379043	VV	0.058	1-I	40.000	Fluorobenzene
11.173	104384	VB	0.055	1	5.084	(H) Trichloroethene
11.636	203205	BV	0.062	1	99.017	a,a,a-Trifluorotoluene
12.725	36772	BV	0.055	1	4.986	(H) c-13pene
13.280	167675	BV	0.059	1	5.095	Toluene
13.701	41326	VV	0.053	1	4.984	(H) t-13pene
14.228	79585	VB	0.059	1	5.079	(H) Tetrachloroethene
15.751	168726	BV	0.053	1	5.072	(H) Chlorobenzene
15.935	146139	VV	0.054	1	5.099	Ethylbenzene
16.140	337339	VB	0.054	1	10.261	m-Xylene ; p-Xylene
16.851	305843	BB	0.068	1	10.208	o-Xylene ; Styrene
17.464	112775	BV	0.055	1	5.123	Isopropylbenzene
17.989	153238	BV	0.048	1	5.024	(H) Bromobenzene
18.172	128286	VV	0.052	1	5.117	n-Propylbenzene
18.318	142055	VV	0.050	1	5.117	(H) 2Cltoluene
18.493	336532	VV	0.070	1	10.269	135-Trimethylbenzene;4-cltolu
19.029	98601	BV	0.054	1	5.127	tert-Butylbenzene
19.115	146093	VV	0.050	1	5.121	124-Trimethylbenzene
19.402	100782	PV	0.054	1	5.128	sec-Butylbenzene
19.592	145043	VV	0.047	1	5.083	(H) 13dcb
19.745	140377	VB	0.046	1	10.187	p-Isopropyltoluene ; (H) 14dcb
20.363	195070	BV	0.063	1	10.174	n-Butylbenzene ; (H) 12dcb
23.052	59486	BV	0.046	1	4.985	(H) 124-Triclbenzene
23.323	40338	VV	0.052	1	5.095	(H) Hexaclbutadiene
23.465	51193	VB	0.045	1	4.887	Naphthalene
23.860	45526	BB	0.046	1	4.889	(H) 123Triclbenzene

alibration table contains at least one peak with amt = 0



ata File Name	: C:\HPCHEM\1\DATA\092505\006R0101.D		
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nstrument	: GC3	Vial Number	: 6
ample Name	: v5	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 25 Sep 05 08:00 PM	Instrument Method	: 8021_HAL.MTH
eport Created on	: 26 Sep 05 08:04 AM	Analysis Method	: 8021_pid.MTH
ast Recalib on	: 25 SEP 05 07:47 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	: 40

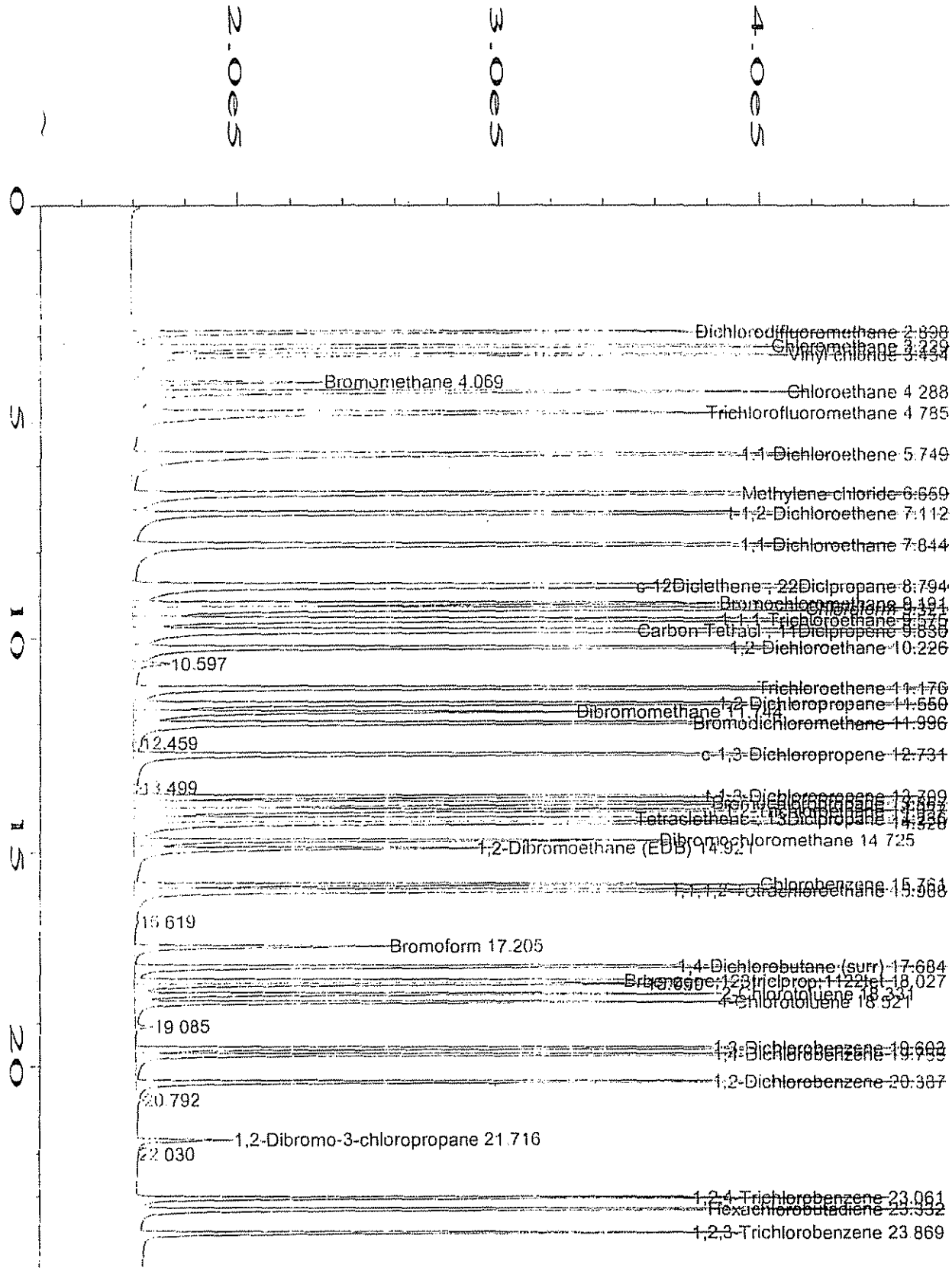
Internal Standard Report

ta File Name : C:\HPCHEM\1\DATA\092505\007F0101.D
erator : MJC
strument : GC3
mple Name : v10
n Time Bar Code:
quired on : 25 Sep 05 08:30 PM
port Created on: 26 Sep 05 08:04 AM
st Recalib on : 26 SEP 05 07:59 AM
ltiplier : 1

Page Number): 1
Vial Number : 7
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

g. 1 in C:\HPCHEM\1\DATA\092505\007F0101.D

et Time	Area	Type	Width	Ref#	µg/L	Name
2.898	1103274	BV	0.048	1	10.540	Dichlorodifluoromethane
3.229	1600195	VV	0.052	1	10.286	Chloromethane
3.434	1311272	VV	0.057	1	10.532	Vinyl chloride
4.069	319833	VV	0.065	1	10.202	Bromomethane
4.288	1278624	VV	0.070	1	10.439	Chloroethane
4.785	1672080	VV	0.097	1	10.274	Trichlorofluoromethane
5.749	2071533	VV	0.083	1	10.418	1,1-Dichloroethene
6.659	2212568	VV	0.067	1	10.553	Methylene chloride
7.112	2095894	VV	0.064	1	10.631	t-1,2-Dichloroethene
7.844	2140989	VV	0.074	1	10.589	1,1-Dichloroethane
8.794	3483819	VV	0.071	1	21.753	c-12Diclethene ; 22Diclpropane
9.191	1147254	VV	0.062	1	10.740	Bromochloromethane
9.321	2650163	VV	0.069	1	10.524	Chloroform
9.575	2393740	VV	0.074	1	10.781	1,1,1-Trichloroethane
9.830	3620572	VV	0.072	1	21.504	Carbon Tetracl ; 11Diclpropene
10.226	1639533	VV	0.063	1	10.708	1,2-Dichloroethane
11.176	2285760	VV	0.064	1	10.755	Trichloroethene
11.550	1798901	VV	0.069	1	10.708	1,2-Dichloropropane
11.744	812117	VV	0.069	1	10.646	Dibromomethane
11.996	1633412	VV	0.068	1	10.725	Bromodichloromethane
12.731	1549495	VV	0.064	1	10.813	c-1,3-Dichloropropene
13.709	1137189	VV	0.057	1	10.675	t-1,3-Dichloropropene
13.867	1999940	VV	0.070	1-I	40.000	Bromochloropropane
14.037	1597115	VV	0.067	1	10.919	1,1,2-Trichloroethane
14.236	2340525	VV	0.062	1	21.257	Tetraclethene ; 13Diclpropane
14.725	900060	VV	0.066	1	10.849	Dibromochloromethane
14.921	738994	VV	0.074	1	10.599	1,2-Dibromoethane (EDB)
15.761	899147	VV	0.057	1	10.577	Chlorobenzene
15.908	2194457	VV	0.068	1	10.808	1,1,1,2-Tetrachloroethane
17.205	438379	PV	0.066	1	10.077	Bromoform
17.684	1457524	VV	0.058	1	103.328	1,4-Dichlorobutane (surr)
18.027	1323647	VV	0.069	1	31.885	Brbenzene;123triclprop;1122tet
18.331	821765	VV	0.055	1	10.440	2-Chlorotoluene
18.521	861274	VV	0.058	1	10.640	4-Chlorotoluene
19.603	1195400	PV	0.054	1	10.835	1,3-Dichlorobenzene
19.755	1308990	VV	0.055	1	10.874	1,4-Dichlorobenzene
20.387	1123741	VV	0.055	1	10.847	1,2-Dichlorobenzene
21.716	144069	BV	0.057	1	9.644	1,2-Dibromo-3-chloropropane
23.061	955994	BV	0.050	1	10.569	1,2,4-Trichlorobenzene
23.332	1219259	VV	0.060	1	10.645	Hexachlorobutadiene
23.869	773000	VBA	0.051	1	10.673	1,2,3-Trichlorobenzene



ata File Name	: C:\HPCHEM\1\DATA\092505\007F0101.D		
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nstrument	: GC3	Vial Number	: 7
ample Name	: v10	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 25 Sep 05 08:30 PM	Instrument Method	: 8021_HAL.MTH
eport Created on	: 26 Sep 05 08:04 AM	Analysis Method	: 8021_HAL.MTH
ast Recalib on	: 26 SEP 05 07:59 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	: 40

Internal Standard Report

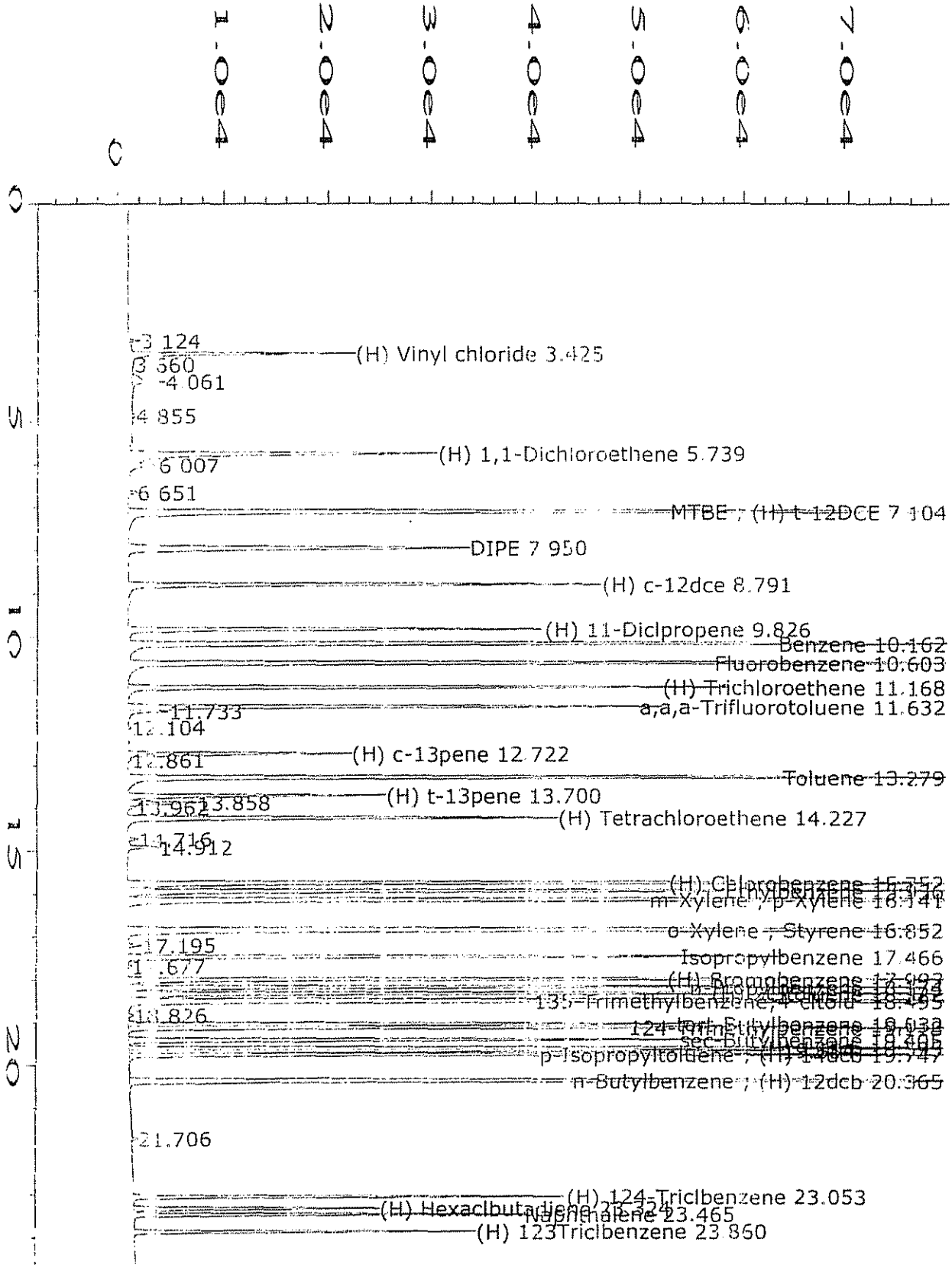
ta File Name : C:\HPCHEM\1\DATA\092505\007R0101.D
erator : MJC
istrument : GC3
mple Name : v10
n Time Bar Code:
quired on : 25 Sep 05 08:30 PM
port Created on: 26 Sep 05 08:04 AM
st Recalib on : 26 SEP 05 07:47 AM
ltiplier : 1

Page Number : 1
Vial Number : 7
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

g. 2 in C:\HPCHEM\1\DATA\092505\007R0101.D

et Time	Area	Type	Width	Ref#	µg/L	Name
3.425	66313	PV	0.046	1	10.289	(H) Vinyl chloride
5.739	146103	BV	0.072	1	10.349	(H) 1,1-Dichloroethene
7.104	426069	BB	0.059	1	20.667	MTBE ; (H) t-12DCE
7.950	166286	BB	0.079	1	10.216	DIPE
8.791	165309	BV	0.056	1	10.246	(H) c-12dce
9.826	151935	PV	0.058	1	10.225	(H) 11-Diclpropene
10.162	357362	VV	0.058	1	10.268	Benzene
10.603	382676	VV	0.058	1-I	40.000	Fluorobenzene
11.168	207925	VV	0.055	1	10.299	(H) Trichloroethene
11.632	203364	VV	0.062	1	98.153	a,a,a-Trifluorotoluene
12.722	75771	BV	0.055	1	10.522	(H) c-13pene
13.279	331215	BV	0.059	1	10.250	Toluene
13.700	85462	VV	0.054	1	10.573	(H) t-13pene
14.227	158071	VB	0.060	1	10.246	(H) Tetrachloroethene
15.752	335908	BV	0.053	1	10.323	(H) Chlorobenzene
15.936	288785	VV	0.054	1	10.368	Ethylbenzene
16.141	663290	VB	0.054	1	20.840	m-Xylene ; p-Xylene
16.852	607431	BV	0.069	1	20.932	o-Xylene ; Styrene
17.466	221966	BV	0.055	1	10.355	Isopropylbenzene
17.993	309831	BV	0.050	1	10.503	(H) Bromobenzene
18.174	252679	VV	0.050	1	10.380	n-Propylbenzene
18.322	280806	VV	0.051	1	10.421	(H) 2Cltoluene
18.495	663255	VV	0.070	1	21.018	135-Trimethylbenzene;4-cltolu
19.032	194494	VV	0.054	1	10.403	tert-Butylbenzene
19.118	288224	VV	0.050	1	10.400	124-Trimethylbenzene
19.405	198427	PV	0.055	1	10.391	sec-Butylbenzene
19.595	290424	VV	0.047	1	10.438	(H) 13dcb
19.747	280766	VV	0.046	1	21.091	p-Isopropyltoluene ; (H) 14dcb
20.365	389334	BB	0.063	1	21.011	n-Butylbenzene ; (H) 12dcb
23.053	122686	BV	0.046	1	10.585	(H) 124-Triclbenzene
23.324	79634	VV	0.052	1	10.350	(H) Hexaclbutadiene
23.465	109013	VV	0.045	1	10.614	Naphthalene
23.860	96140	BB	0.046	1	10.566	(H) 123Triclbenzene

alibration table contains at least one peak with amt = 0



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nstrument	: GC3	Vial Number	: 7
ample Name	: v10	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 25 Sep 05 08:30 PM	Instrument Method	: 8021_HAL.MTH
eport Created on	: 26 Sep 05 08:04 AM	Analysis Method	: 8021_pid.MTH
ast Recalib on	: 26 SEP 05 07:47 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	: 40

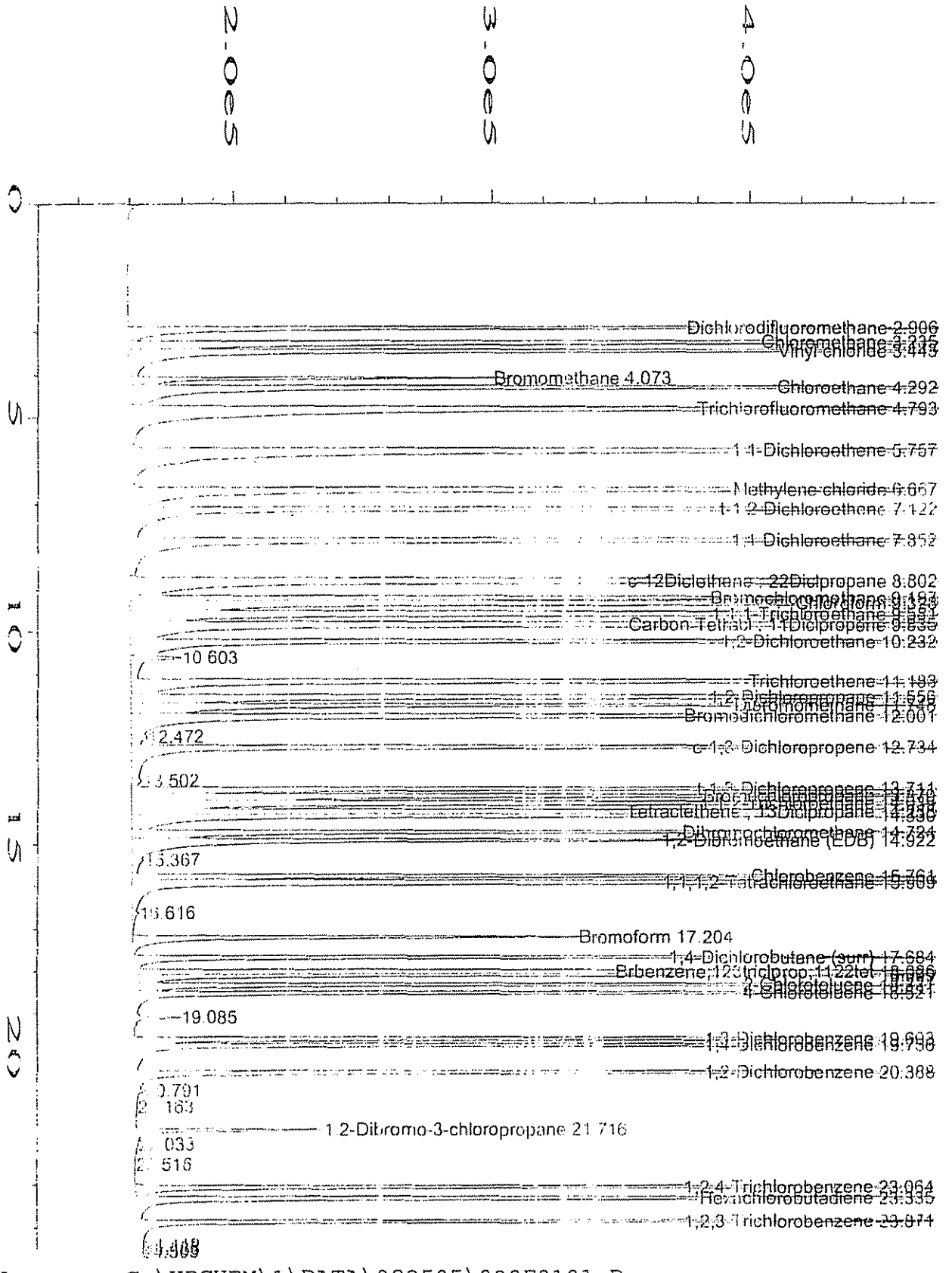
Internal Standard Report

ata File Name : C:\HPCHEM\1\DATA\092505\008F0101.D
perator : MJC
nstrument : GC3
ample Name : v20
un Time Bar Code:
cquired on : 25 Sep 05 09:01 PM
eport Created on: 26 Sep 05 08:04 AM
ast Recalib on : 26 SEP 05 07:59 AM
ultiplier : 1

Page Number : 1
Vial Number : 8
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

ig. 1 in C:\HPCHEM\1\DATA\092505\008F0101.D

et Time	Area	Type	Width	Ref#	µg/L	Name
2.906	2105145	BV	0.046	1	20.202	Dichlorodifluoromethane
3.235	3145668	VV	0.050	1	20.355	Chloromethane
3.443	2471759	VV	0.057	1	20.266	Vinyl chloride
4.073	549847	VV	0.057	1	17.355	Bromomethane
4.292	2424359	VV	0.077	1	19.940	Chloroethane
4.793	3226178	VV	0.102	1	19.985	Trichlorofluoromethane
5.757	4013599	VV	0.092	1	20.345	1,1-Dichloroethene
6.667	4135408	VV	0.069	1	20.137	Methylene chloride
7.122	3905646	VV	0.062	1	20.136	t-1,2-Dichloroethene
7.852	4001022	VV	0.076	1	20.057	1,1-Dichloroethane
8.802	6289515	VV	0.075	1	40.115	c-12Diclethene ; 22Diclpropane
9.197	2064608	VV	0.061	1	19.464	Bromochloromethane
9.328	4959623	VV	0.070	1	20.027	Chloroform
9.581	4383876	VV	0.077	1	20.117	1,1,1-Trichloroethane
9.835	6419934	VV	0.070	1	38.977	Carbon Tetracl ; 11Diclpropene
10.232	2985886	VV	0.062	1	19.818	1,2-Dichloroethane
11.183	4201103	VV	0.062	1	20.028	Trichloroethene
11.556	3335345	VV	0.067	1	20.159	1,2-Dichloropropane
11.748	1519774	VV	0.066	1	19.757	Dibromomethane
12.001	2984966	VV	0.070	1	19.666	Bromodichloromethane
12.734	2838263	VV	0.065	1	19.975	c-1,3-Dichloropropene
13.711	2092496	VV	0.058	1	19.637	t-1,3-Dichloropropene
13.870	2027546	VV	0.071	1-I	40.000	Bromochloropropane
14.039	2805902	VV	0.069	1	20.045	1,1,2-Trichloroethane
14.238	4300039	VV	0.063	1	39.901	Tetraclethene ; 13Diclpropane
14.724	1581896	VV	0.066	1	19.128	Dibromochloromethane
14.922	1333491	VV	0.071	1	19.323	1,2-Dibromoethane (EDB)
15.761	1695297	VV	0.057	1	20.070	Chlorobenzene
15.909	3927148	VV	0.071	1	19.728	1,1,1,2-Tetrachloroethane
17.204	779993	PV	0.064	1	17.495	Bromoform
17.684	1405258	VV	0.057	1	98.266	1,4-Dichlorobutane (surr)
18.026	2450711	VV	0.068	1	60.046	Brbenzene;123triclprop;1122tet
18.331	1553041	VV	0.058	1	19.967	2-Chlorotoluene
18.521	1593950	VV	0.057	1	20.015	4-Chlorotoluene
19.603	2179649	PV	0.052	1	19.987	1,3-Dichlorobenzene
19.756	2349162	VV	0.053	1	19.820	1,4-Dichlorobenzene
20.388	2027213	VV	0.055	1	19.796	1,2-Dichlorobenzene
21.716	280474	BV	0.060	1	18.899	1,2-Dibromo-3-chloropropane
23.064	1805525	PV	0.052	1	20.101	1,2,4-Trichlorobenzene
23.335	2333030	VV	0.060	1	20.702	Hexachlorobutadiene
23.871	1435865	VV	0.052	1	19.921	1,2,3-Trichlorobenzene



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nstrument	: GC3	Vial Number	: 8
ample Name	: v20	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 25 Sep 05 09:01 PM	Instrument Method	: 8021_HAL.MTH
eport Created on	: 26 Sep 05 08:04 AM	Analysis Method	: 8021_HAL.MTH
ast Recalib on	: 26 SEP 05 07:59 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	: 40

Internal Standard Report

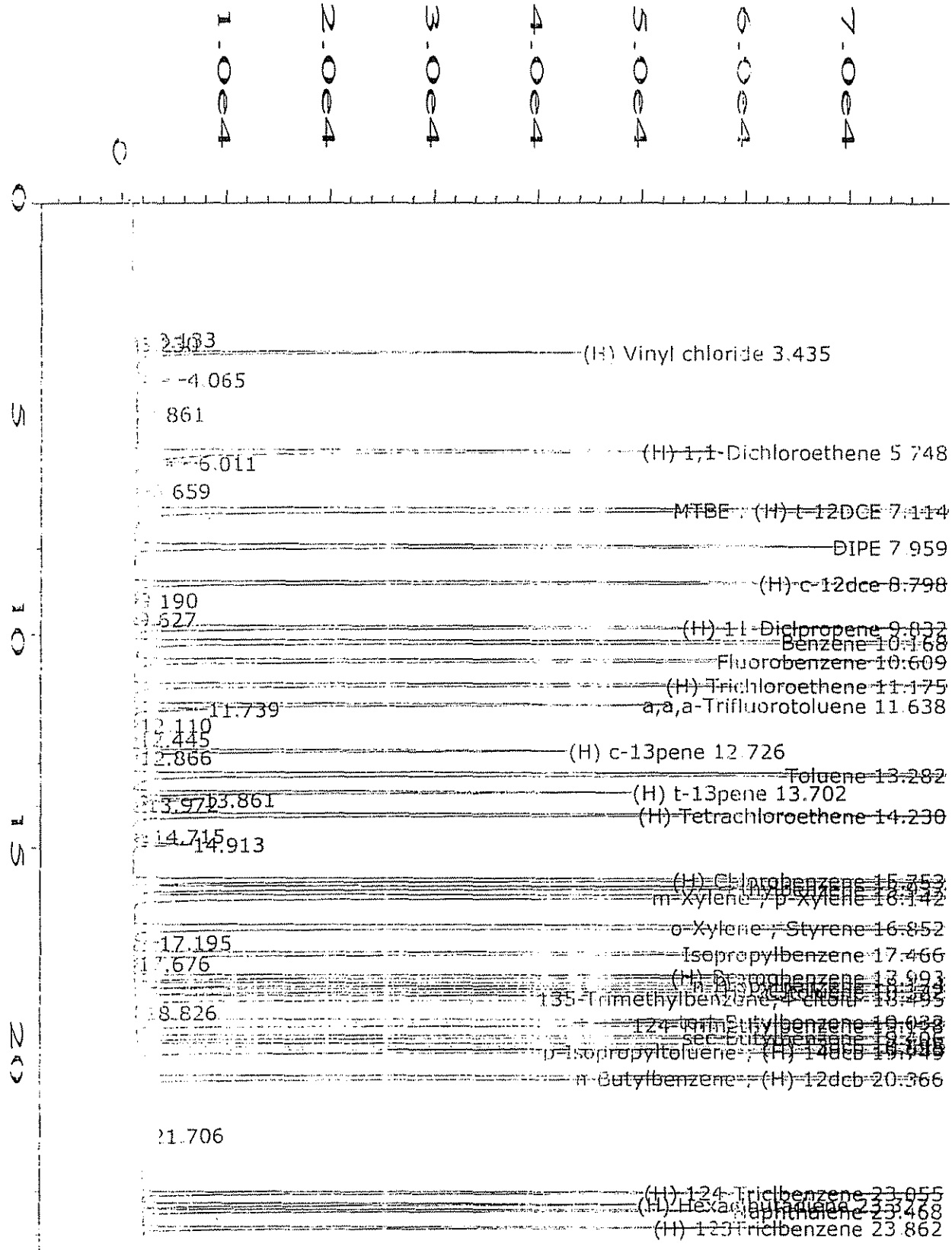
ta File Name : C:\HPCHEM\1\DATA\092505\008R0101.D
perator : MJC
strument : GC3
mple Name : v20
n Time Bar Code:
quired on : 25 Sep 05 09:01 PM
port Created on: 26 Sep 05 08:04 AM
st Recalib on : 26 SEP 05 07:47 AM
ltiplier : 1

Page Number : 1
Vial Number : 8
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

g. 2 in C:\HPCHEM\1\DATA\092505\008R0101.D

t Time	Area	Type	Width	Ref#	µg/L	Name
3.435	122486	BV	0.044	1	19.221	(H) Vinyl chloride
5.748	291276	BV	0.075	1	20.446	(H) 1,1-Dichloroethene
7.114	850976	BB	0.060	1	41.087	MTBE ; (H) t-12DCE
7.959	347727	BB	0.080	1	21.383	DIPE
8.798	328995	BV	0.056	1	20.221	(H) c-12dce
9.832	304127	PV	0.059	1	20.303	(H) 11-Diclpropene
10.168	714843	VV	0.058	1	20.394	Benzene
10.609	390557	VB	0.059	1-I	40.000	Fluorobenzene
11.175	412300	BV	0.056	1	20.270	(H) Trichloroethene
11.638	205377	VV	0.062	1	97.124	a,a,a-Trifluorotoluene
12.726	146992	BV	0.055	1	20.300	(H) c-13pene
13.282	662529	BV	0.059	1	20.373	Toluene
13.702	164592	VV	0.053	1	20.260	(H) t-13pene
14.230	315954	VV	0.060	1	20.318	(H) Tetrachloroethene
15.753	667855	BV	0.053	1	20.425	(H) Chlorobenzene
15.937	575745	VV	0.054	1	20.639	Ethylbenzene
16.142	1314440	VB	0.054	1	41.317	m-Xylene ; p-Xylene
16.852	1195825	BV	0.068	1	41.193	o-Xylene ; Styrene
17.466	441653	BV	0.055	1	20.556	Isopropylbenzene
17.993	607315	BV	0.049	1	20.579	(H) Bromobenzene
18.174	502740	VV	0.050	1	20.633	n-Propylbenzene
18.322	555635	VV	0.049	1	20.598	(H) 2Cltoluene
18.495	1307464	VV	0.070	1	41.547	135-Trimethylbenzene;4-cltolu
19.032	385957	VV	0.054	1	20.611	tert-Butylbenzene
19.118	571862	VV	0.049	1	20.608	124-Trimethylbenzene
19.406	395132	PV	0.053	1	20.665	sec-Butylbenzene
19.595	572010	VV	0.047	1	20.481	(H) 13dcb
19.749	547355	VV	0.046	1	41.129	p-Isopropyltoluene ; (H) 14dcb
20.366	766447	PV	0.063	1	41.382	n-Butylbenzene ; (H) 12dcb
23.055	237381	BV	0.046	1	20.412	(H) 124-Triclbenzene
23.327	159555	PV	0.052	1	20.710	(H) Hexaclbutadiene
23.468	208703	VV	0.044	1	20.154	Naphthalene
23.862	185232	BB	0.046	1	20.223	(H) 123Triclbenzene

libration table contains at least one peak with amt = 0



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nstrument	: GC3	Vial Number	: 8
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un Time Bar Code:		Sequence Line	: 1
cquired on	: 25 Sep 05 09:01 PM	Instrument Method	: 8021_HAL.MTH
eport Created on	: 26 Sep 05 08:04 AM	Analysis Method	: 8021_pid.MTH
ast Recalib on	: 26 SEP 05 07:47 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	: 40

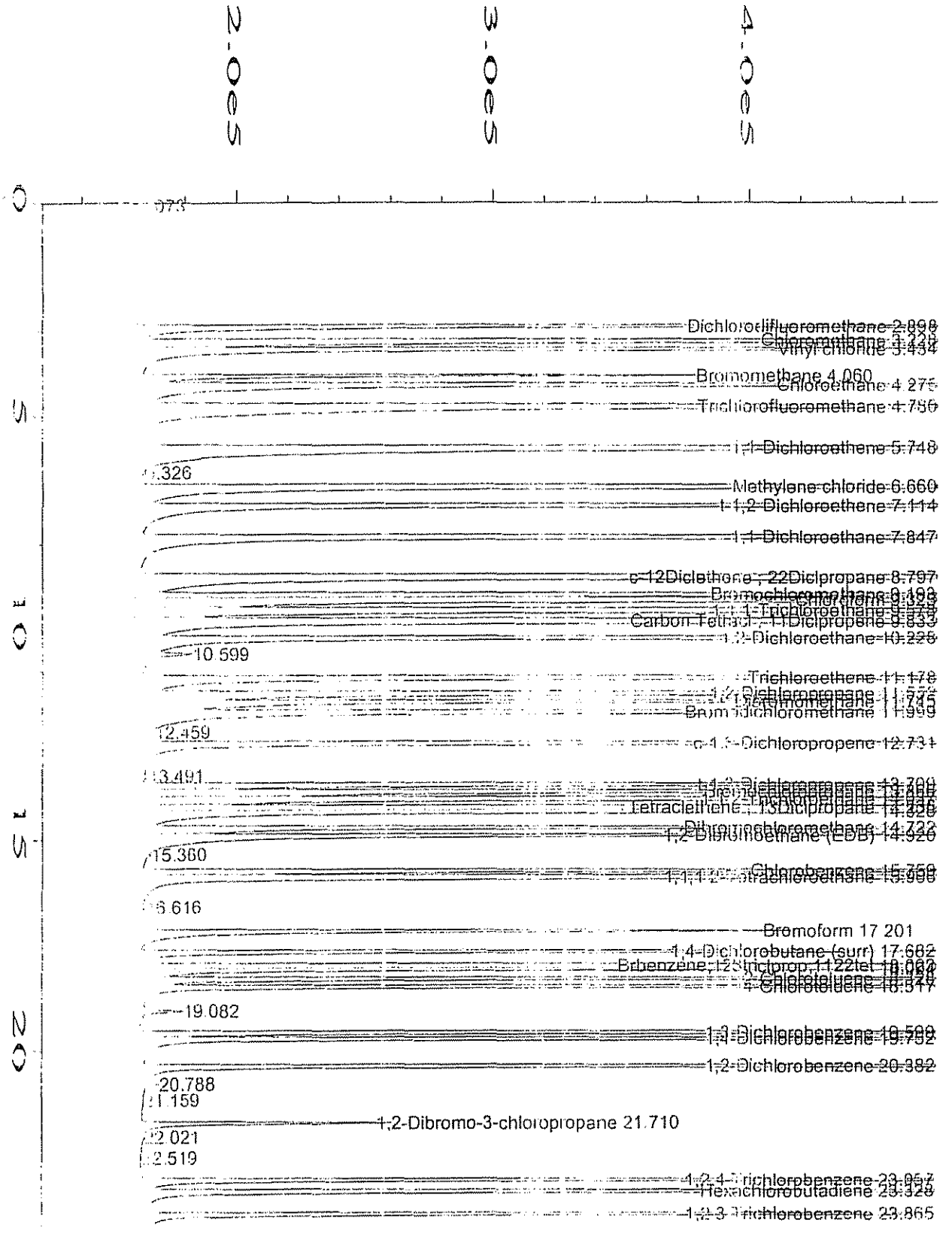
Internal Standard Report

ta File Name : C:\HPCHEM\1\DATA\092505\009F0101.D
erator : MJC
strument : GC3
mple Name : v25
n Time Bar Code:
quired on : 25 Sep 05 09:32 PM
port Created on: 26 Sep 05 08:04 AM
st Recalib on : 26 SEP 05 07:59 AM
ltiplier : 1

Page Number : 1
Vial Number : 9
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

g. 1 in C:\HPCHEM\1\DATA\092505\009F0101.D

t Time	Area	Type	Width	Ref#	µg/L	Name
2.898	2567911	BV	0.048	1	24.548	Dichlorodifluoromethane
3.228	3802369	VV	0.056	1	24.511	Chloromethane
3.434	2988244	VV	0.056	1	24.479	Vinyl chloride
4.060	794402	VV	0.054	1	24.923	Bromomethane
4.275	3022901	VV	0.075	1	24.794	Chloroethane
4.780	4018045	VV	0.106	1	24.820	Trichlorofluoromethane
5.748	4842881	VV	0.087	1	24.463	1,1-Dichloroethene
6.660	5044756	VV	0.069	1	24.555	Methylene chloride
7.114	4762791	VV	0.064	1	24.524	t-1,2-Dichloroethene
7.847	4917118	VV	0.075	1	24.609	1,1-Dichloroethane
8.797	7672134	VV	0.078	1	48.947	c-12Diclethene ; 22Diclpropane
9.193	2660688	VV	0.061	1	25.043	Bromochloromethane
9.325	6111052	VV	0.071	1	24.654	Chloroform
9.578	5337697	VV	0.076	1	24.480	1,1,1-Trichloroethane
9.833	8199748	VV	0.073	1	49.905	Carbon Tetracl ; 11Diclpropene
10.228	3730213	VV	0.065	1	24.752	1,2-Dichloroethane
11.178	5164191	VV	0.064	1	24.582	Trichloroethene
11.552	4071141	VV	0.070	1	24.573	1,2-Dichloropropane
11.745	1930667	VV	0.065	1	24.947	Dibromomethane
11.999	3799072	VV	0.069	1	24.955	Bromodichloromethane
12.731	3508507	VV	0.065	1	24.634	c-1,3-Dichloropropene
13.709	2671729	VV	0.059	1	24.973	t-1,3-Dichloropropene
13.866	2042566	VV	0.071	1-I	40.000	Bromochloropropane
14.037	3413954	VV	0.067	1	24.528	1,1,2-Trichloroethane
14.236	5316112	VV	0.067	1	49.353	Tetraclethene ; 13Diclpropane
14.722	2098632	VV	0.065	1	25.328	Dibromochloromethane
14.920	1743121	VV	0.073	1	25.248	1,2-Dibromoethane (EDB)
15.759	2088624	VV	0.057	1	24.648	Chlorobenzene
15.906	4929482	VV	0.069	1	24.790	1,1,1,2-Tetrachloroethane
17.201	1128053	VV	0.066	1	25.006	Bromoform
17.682	1495132	VV	0.058	1	103.782	1,4-Dichlorobutane (surr)
18.022	3021943	VV	0.071	1	73.989	Brbenzene;123triclprop;1122tet
18.328	1930142	VV	0.057	1	24.769	2-Chlorotoluene
18.517	1965093	VV	0.054	1	24.654	4-Chlorotoluene
19.599	2686033	VV	0.055	1	24.589	1,3-Dichlorobenzene
19.752	2927490	VV	0.056	1	24.694	1,4-Dichlorobenzene
20.382	2537029	VV	0.054	1	24.746	1,2-Dichlorobenzene
21.710	387213	VV	0.058	1	26.053	1,2-Dibromo-3-chloropropane
23.057	2219251	PV	0.053	1	24.630	1,2,4-Trichlorobenzene
23.328	2724013	VV	0.061	1	24.104	Hexachlorobutadiene
23.865	1790150	VBA	0.052	1	24.758	1,2,3-Trichlorobenzene



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Sample Name	: V25	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
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Report Created on:	26 Sep 05 08:04 AM	Analysis Method	: 8021_HAL.MTH
Last Recalib on	: 26 SEP 05 07:59 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

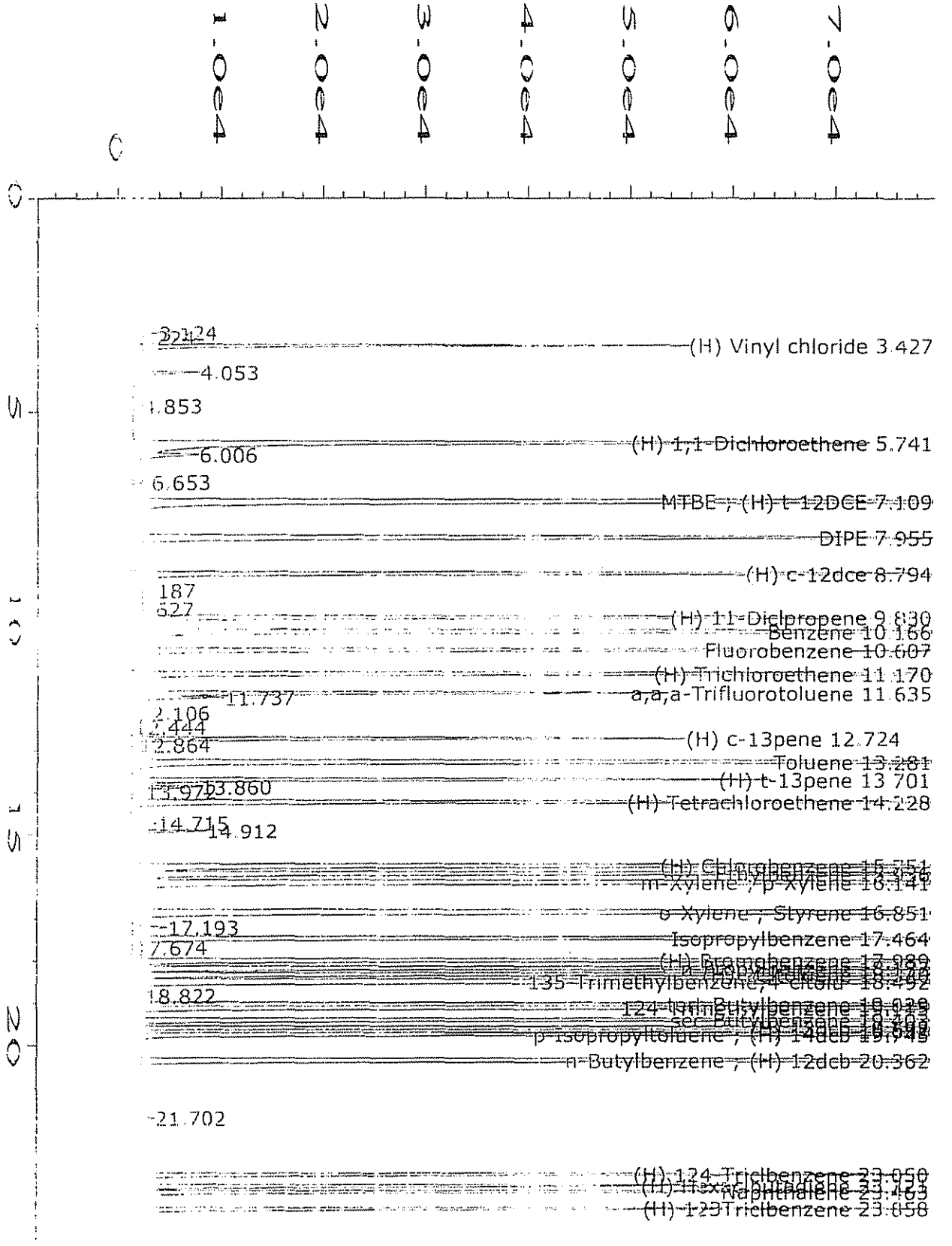
Internal Standard Report

ata File Name	: C:\HPCHEM\1\DATA\092505\009R0101.D		
perator	: MJC	Page Number	: 1
nstrument	: GC3	Vial Number	: 9
mple Name	: v25	Injection Number	: 1
n Time Bar Code:		Sequence Line	: 1
quired on	: 25 Sep 05 09:32 PM	Instrument Method:	8021_HAL.MTH
port Created on:	26 Sep 05 08:04 AM	Analysis Method	: 8021_pid.MTH
st Recalib on	: 26 SEP 05 07:47 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	: 40

g. 2 in C:\HPCHEM\1\DATA\092505\009R0101.D

et Time	Area	Type	Width	Ref#	µg/L	Name
3.427	158742	BB	0.044	1	24.610	(H) Vinyl chloride
5.741	367001	BV	0.074	1	25.301	(H) 1,1-Dichloroethene
7.109	1089912	BV	0.061	1	51.738	MTBE ; (H) t-12DCE
7.955	429817	VB	0.080	1	25.992	DIPE
8.794	421747	BV	0.056	1	25.466	(H) c-12dce
9.830	387665	PV	0.059	1	25.424	(H) 11-Diclpropene
10.166	908633	VV	0.058	1	25.471	Benzene
10.607	398556	VB	0.058	1-I	40.000	Fluorobenzene
11.170	529993	BV	0.055	1	25.605	(H) Trichloroethene
11.635	208375	VV	0.061	1	96.564	a,a,a-Trifluorotoluene
12.724	190759	BV	0.055	1	25.906	(H) c-13pene
13.281	838595	BV	0.059	1	25.340	Toluene
13.701	215659	VV	0.053	1	26.111	(H) t-13pene
14.228	401029	VV	0.059	1	25.335	(H) Tetrachloroethene
15.751	848343	BV	0.053	1	25.505	(H) Chlorobenzene
15.936	724685	VV	0.054	1	25.551	Ethylbenzene
16.141	1651873	VB	0.055	1	51.091	m-Xylene ; p-Xylene
16.851	1511473	BV	0.069	1	51.231	o-Xylene ; Styrene
17.464	554529	BV	0.055	1	25.381	Isopropylbenzene
17.989	775369	BV	0.050	1	25.856	(H) Bromobenzene
18.172	627623	VV	0.050	1	25.335	n-Propylbenzene
18.320	698914	VV	0.051	1	25.487	(H) 2Cltoluene
18.492	1634601	VV	0.070	1	51.129	135-Trimethylbenzene;4-cltolu
19.029	481509	VV	0.054	1	25.288	tert-Butylbenzene
19.115	715033	VV	0.050	1	25.343	124-Trimethylbenzene
19.403	490507	PV	0.054	1	25.228	sec-Butylbenzene
19.592	727215	VV	0.047	1	25.605	(H) 13dcb
19.745	696195	VV	0.046	1	51.492	p-Isopropyltoluene ; (H) 14dcb
20.362	960035	PV	0.062	1	51.004	n-Butylbenzene ; (H) 12dcb
23.050	302710	BV	0.046	1	25.603	(H) 124-Triclbenzene
23.321	194291	PV	0.052	1	24.791	(H) Hexaclbutadiene
23.463	273133	VV	0.045	1	25.925	Naphthalene
23.858	239173	BV	0.045	1	25.671	(H) 123Triclbenzene

alibration table contains at least one peak with amt = 0



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Instrument	: GC3	Vial Number	: 9
Sample Name	: V25	Injection Number	: 1
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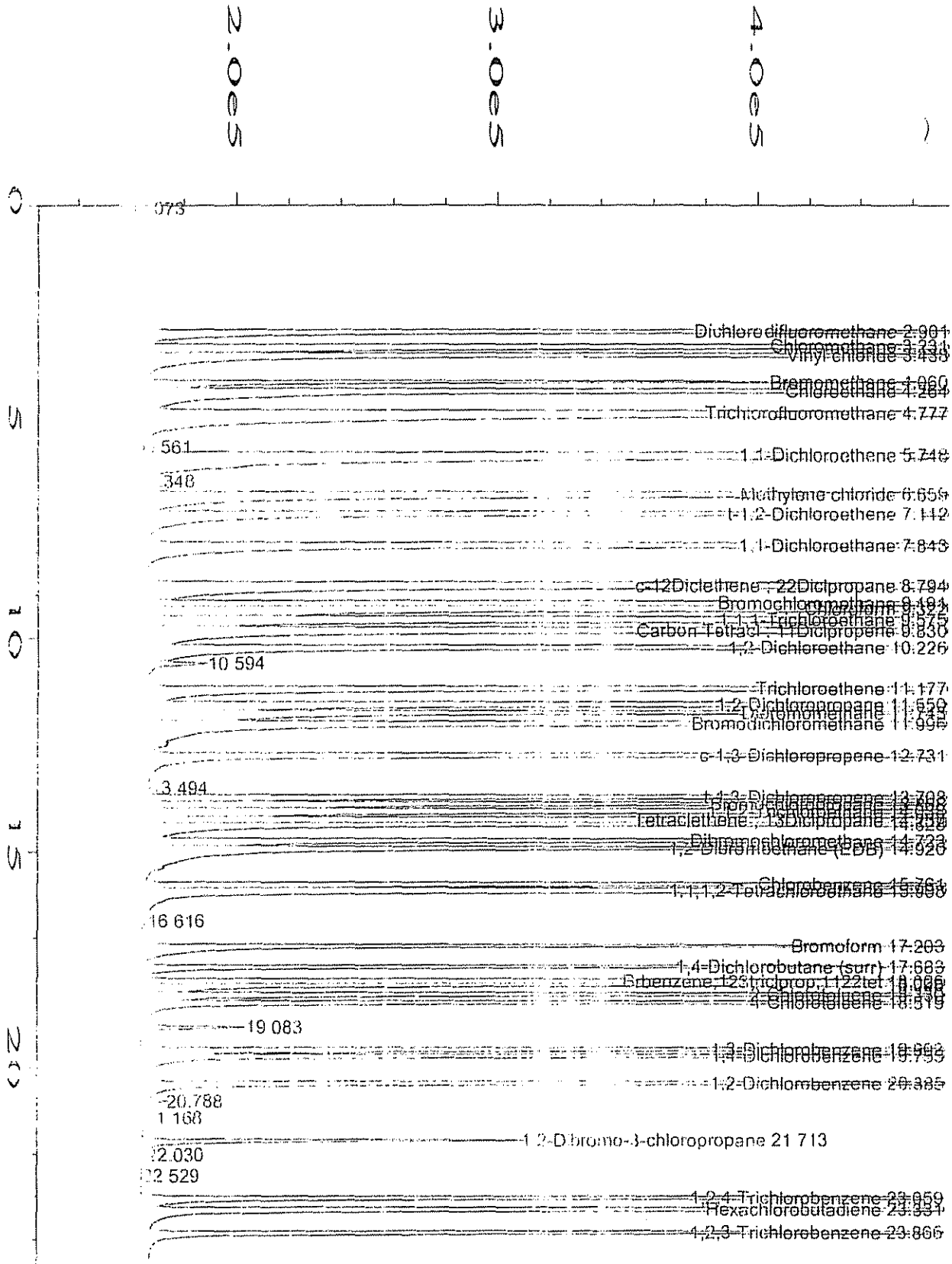
Report Created on:	26 Sep 05 08:04 AM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 26 SEP 05 07:47 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

ata File Name	: C:\HPCHEM\1\DATA\092505\010F0101.D		
perator	: MJC	Page Number	: 1
nstrument	: GC3	Vial Number	: 10
ample Name	: V40	Injection Number	: 1
an Time Bar Code:		Sequence Line	: 1
cquired on	: 25 Sep 05 10:03 PM	Instrument Method:	8021_HAL.MTH
eport Created on:	26 Sep 05 08:04 AM	Analysis Method	: 8021_HAL.MTH
ast Recalib on	: 26 SEP 05 07:59 AM	Sample Amount	: 0
ultiplier	: .	ISTD Amount	: 40

ig. 1 in C:\HPCHEM\1\DATA\092505\010F0101.D

et Time	Area	Type	Width	Ref#	µg/L	Name
2.901	3965794	BV	0.048	1	37.237	Dichlorodifluoromethane
3.231	5913192	VV	0.053	1	37.456	Chloromethane
3.438	4516098	VV	0.059	1	36.510	Vinyl chloride
4.060	1105480	VV	0.053	1	33.902	Bromomethane
4.264	4571604	VV	0.079	1	36.850	Chloroethane
4.777	6151499	VV	0.108	1	37.348	Trichlorofluoromethane
5.748	7451496	VV	0.090	1	37.003	1,1-Dichloroethene
6.659	7525909	VV	0.072	1	36.146	Methylene chloride
7.112	6993989	VV	0.065	1	35.481	t-1,2-Dichloroethene
7.843	7224069	VV	0.076	1	35.590	1,1-Dichloroethane
8.794	1.13048E+007	VV	0.075	1	71.216	c-12Diclethene ; 22Diclpropane
9.191	3922643	VV	0.065	1	36.286	Bromochloromethane
9.322	8884033	VV	0.073	1	35.303	Chloroform
9.575	7938475	VV	0.079	1	35.918	1,1,1-Trichloroethane
9.830	1.14748E+007	VV	0.074	1	68.878	Carbon Tetracl ; 11Diclpropene
10.226	5421144	VV	0.067	1	35.439	1,2-Dichloroethane
11.177	7548777	VV	0.064	1	35.373	Trichloroethene
11.550	6030579	VV	0.072	1	35.861	1,2-Dichloropropane
11.743	2867437	VV	0.065	1	36.244	Dibromomethane
11.996	5700081	VV	0.072	1	36.763	Bromodichloromethane
12.731	5143383	VV	0.067	1	35.506	c-1,3-Dichloropropene
13.708	3876675	VV	0.058	1	35.525	t-1,3-Dichloropropene
13.868	2091314	VV	0.069	1-I	40.000	Bromochloropropane
14.038	5038876	VV	0.069	1	36.035	1,1,2-Trichloroethane
14.237	7669852	VV	0.064	1	70.239	Tetraclethene ; 13Diclpropane
14.723	3042869	VV	0.065	1	36.050	Dibromochloromethane
14.920	2746049	VV	0.076	1	39.164	1,2-Dibromoethane (EDB)
15.761	3218117	VV	0.059	1	37.327	Chlorobenzene
15.908	7167165	VV	0.068	1	35.559	1,1,1,2-Tetrachloroethane
17.203	1639136	PV	0.065	1	35.382	Bromoform
17.683	1457316	VV	0.057	1	98.799	1,4-Dichlorobutane (surr)
18.026	4465583	VV	0.071	1	107.759	Brbenzene;123triclprop;1122tet
18.330	2914237	VV	0.056	1	36.802	2-Chlorotoluene
18.519	2930797	VV	0.058	1	36.240	4-Chlorotoluene
19.603	4054073	PV	0.055	1	36.544	1,3-Dichlorobenzene
19.755	4338797	VV	0.054	1	36.077	1,4-Dichlorobenzene
20.385	3740819	VV	0.054	1	35.916	1,2-Dichlorobenzene
21.713	580891	BV	0.059	1	38.363	1,2-Dibromo-3-chloropropane
23.059	3354421	PV	0.055	1	36.589	1,2,4-Trichlorobenzene
23.331	4219191	VV	0.061	1	36.817	Hexachlorobutadiene
23.866	2612866	VBA	0.051	1	35.481	1,2,3-Trichlorobenzene



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nstrument	: C3	Vial Number	: 10
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cquired on	: 5 Sep 05 10:03 PM	Instrument Method	: 8021_HAL.MTH
eport Created on	: 6 Sep 05 08:04 AM	Analysis Method	: 8021_HAL.MTH
ast Recalib on	: 5 SEP 05 07:59 AM	Sample Amount	: 0
ultiplier	:	ISTD Amount	: 40

Internal Standard Report

ata File Name : C:\HPCHEM\1\DATA\092505\010R0101.D
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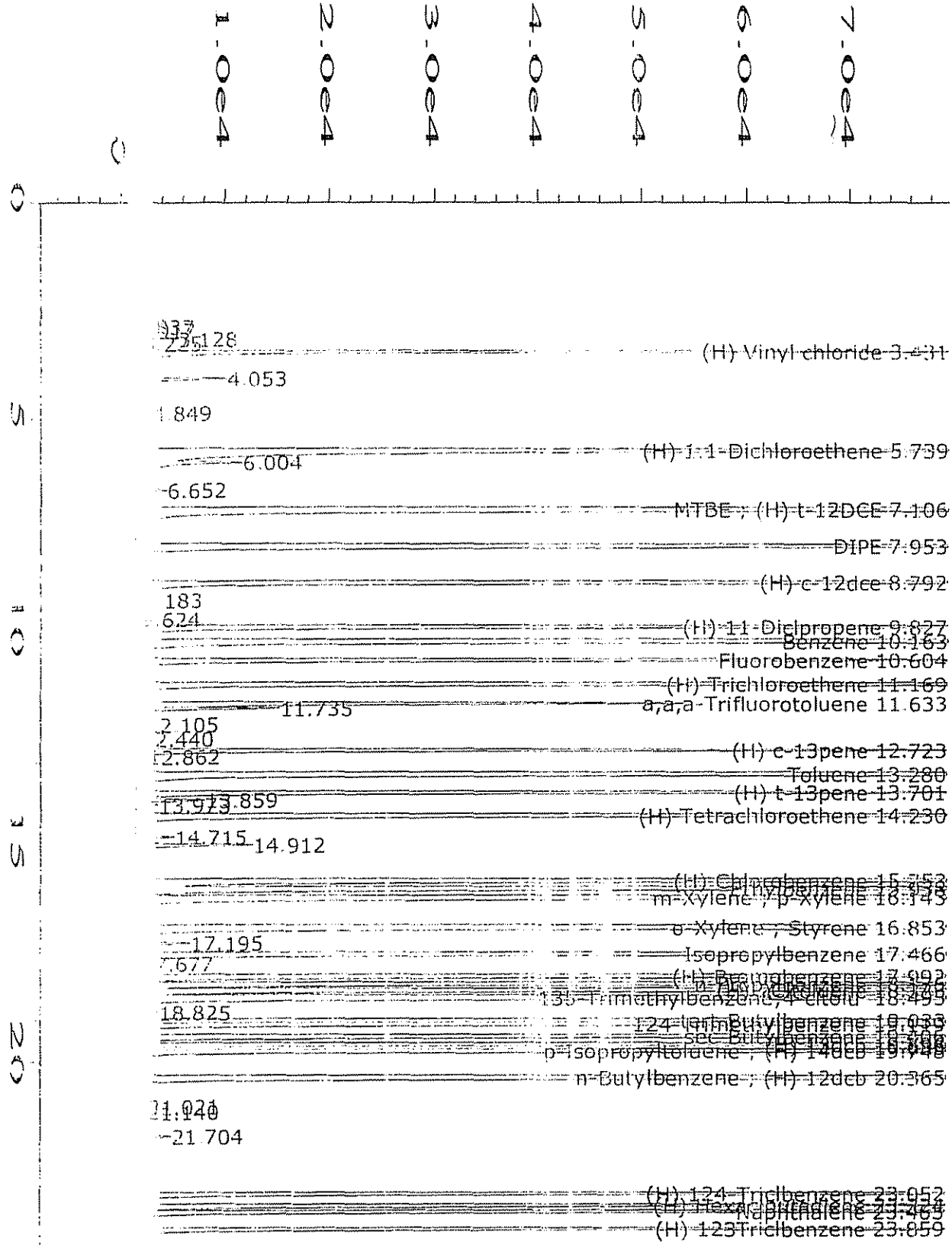
nstrument : GC3
ample Name : V10
in Time Bar Code:
quired on : 25 Sep 05 10:03 PM
eport Created on: 26 Sep 05 08:04 AM
ast Recalib on : 26 SEP 05 07:47 AM
ultiplier : 1

Page Number : 1
Vial Number : 10
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

ig. 2 in C:\HPCHEM\1\DATA\092505\010R0101.D

et Time	Area	Type	Width	Ref#	µg/L	Name
3.431	261931	VV	0.046	1	40.616	(H) Vinyl chloride
5.739	593804	BV	0.076	1	40.610	(H) 1,1-Dichloroethene
7.106	1710700	BV	0.061	1	80.647	MTBE ; (H) t-12DCE
7.953	667709	VB	0.080	1	40.145	DIPE
8.792	672617	BV	0.058	1	40.293	(H) c-12dce
9.827	618973	PV	0.060	1	40.277	(H) 11-Diclpropene
10.163	1447215	VV	0.059	1	40.265	Benzene
10.604	403190	VB	0.059	1-I	40.000	Fluorobenzene
11.169	838912	BV	0.056	1	40.219	(H) Trichloroethene
11.633	209321	VV	0.062	1	95.889	a,a,a-Trifluorotoluene
12.723	299190	BV	0.055	1	40.338	(H) c-13pene
13.280	1341512	BV	0.060	1	40.244	Toluene
13.701	336035	VV	0.054	1	40.406	(H) t-13pene
14.230	642595	VV	0.060	1	40.280	(H) Tetrachloroethene
15.753	1347469	BV	0.054	1	40.234	(H) Chlorobenzene
15.938	1148413	VV	0.055	1	40.255	Ethylbenzene
16.143	2619784	VB	0.055	1	80.610	m-Xylene ; p-Xylene
16.853	2389452	BV	0.069	1	80.554	o-Xylene ; Styrene
17.466	882945	PV	0.056	1	40.171	Isopropylbenzene
17.992	1219910	BV	0.050	1	40.458	(H) Bromobenzene
18.176	1003013	VV	0.052	1	40.266	n-Propylbenzene
18.323	1109812	VV	0.050	1	40.244	(H) 2Cltoluene
18.495	2589103	VV	0.068	1	80.631	135-Trimethylbenzene;4-cltolu
19.033	771537	VV	0.054	1	40.291	tert-Butylbenzene
19.119	1143577	VV	0.050	1	40.305	124-Trimethylbenzene
19.406	786800	VV	0.054	1	40.242	sec-Butylbenzene
19.596	1153003	VV	0.047	1	40.336	(H) 13dcb
19.748	1098919	VV	0.046	1	80.862	p-Isopropyltoluene ; (H) 14dcb
20.365	1530401	PV	0.063	1	80.901	n-Butylbenzene ; (H) 12dcb
23.052	483816	VV	0.045	1	40.676	(H) 124-Triclbenzene
23.324	317397	VV	0.053	1	40.277	(H) Hexaclbutadiene
23.465	430509	VV	0.044	1	40.547	Naphthalene
23.859	382237	BV	0.046	1	40.741	(H) 123Triclbenzene

alibration table contains at least one peak with amt = 0



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nstrument	: 23	Vial Number	: 10
ample Name	: 40	Injection Number	: 1
in Time Bar Code:		Sequence Line	: 1
quired on	: 5 Sep 05 10:03 PM	Instrument Method:	8021_HAL.MTH
port Created on:	5 Sep 05 08:04 AM	Analysis Method	: 8021_pid.MTH
st Recalib on	: 5 SEP 05 07:47 AM	Sample Amount	: 0
ltiplier	:	ISTD Amount	: 40

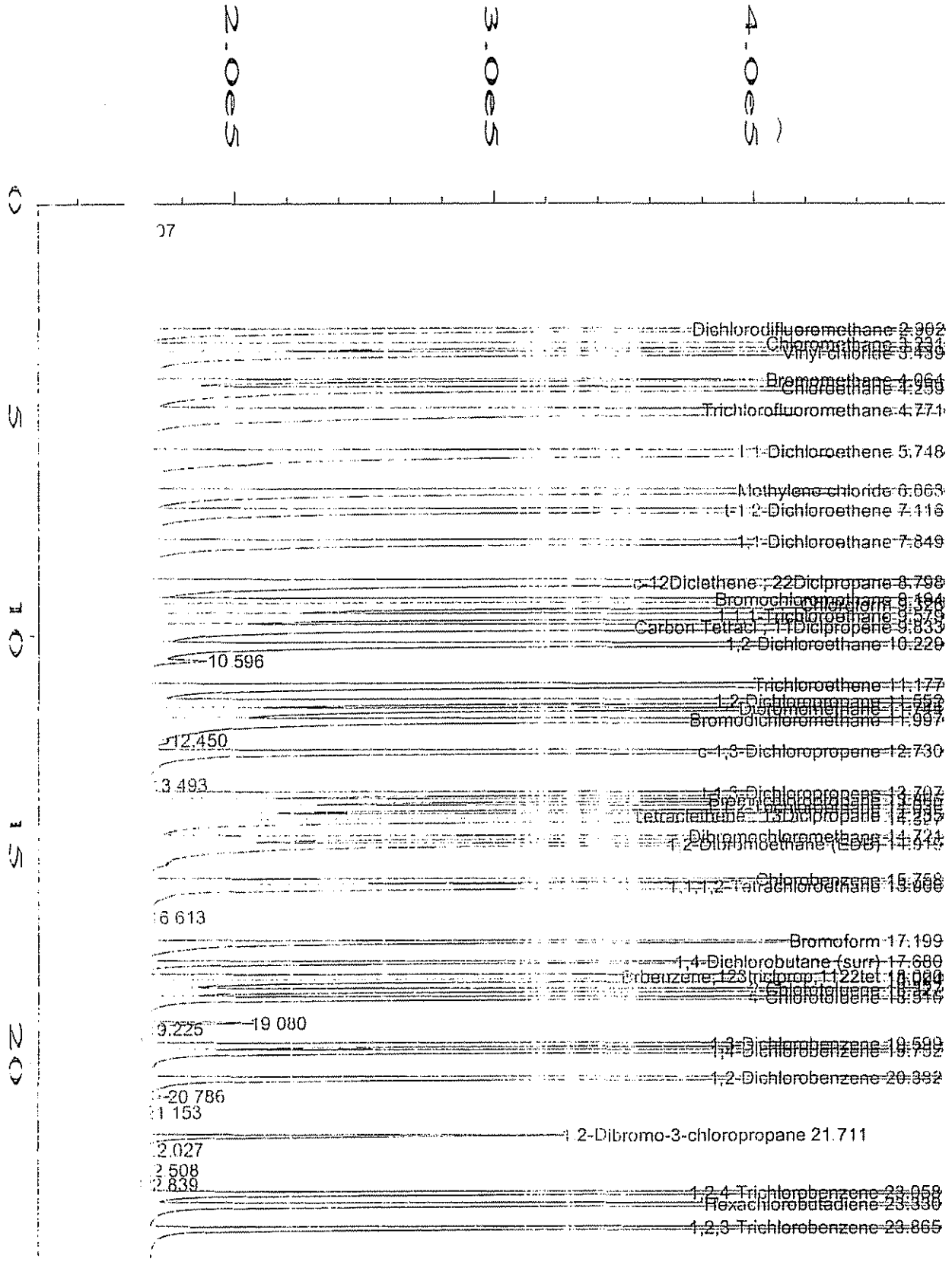
Internal Standard Report

ata File Name : :\HPCHEM\1\DATA\092505\011F0101.D
erator : JC
nstrument : 3
mple Name : 50
n Time Bar Code:
quired on : 5 Sep 05 10:34 PM
eport Created on: 6 Sep 05 08:04 AM
ast Recalib on : 5 SEP 05 07:59 AM
ultiplier : 1

Page Number : 1
Vial Number : 11
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

g. 1 in C:\HPCHEM\1\DATA\092505\011F0101.D

et Time	Area	Type	Width	Ref#	µg/L	Name
2.902	42488 0	BV	0.047	1	43.547	Dichlorodifluoromethane
3.231	64292 5	VV	0.057	1	44.464	Chloromethane
3.439	50279 7	VV	0.057	1	44.469	Vinyl chloride
4.064	13380 7	VV	0.053	1	44.746	Bromomethane
4.259	50210 9	VV	0.069	1	44.202	Chloroethane
4.771	68350 9	VV	0.115	1	45.327	Trichlorofluoromethane
5.748	82494 1	VV	0.096	1	44.744	1,1-Dichloroethene
6.663	83039 9	VV	0.072	1	43.629	Methylene chloride
7.116	76997 1	VV	0.065	1	42.712	t-1,2-Dichloroethene
7.849	79974 4	VV	0.077	1	43.071	1,1-Dichloroethane
8.798	1.23166E+0 7	VV	0.075	1	84.890	c-12Diclethene ; 22Diclpropane
9.194	42650 7	VV	0.064	1	43.093	Bromochloromethane
9.326	98254 4	VV	0.071	1	42.697	Chloroform
9.579	87273 5	VV	0.081	1	43.192	1,1,1-Trichloroethane
9.833	1.30537E+0 7	VV	0.078	1	85.830	Carbon Tetracl ; 11Diclpropene
10.229	59237 7	VV	0.067	1	42.342	1,2-Dichloroethane
11.177	83087 2	VV	0.064	1	42.562	Trichloroethene
11.552	66082 3	VV	0.070	1	42.962	1,2-Dichloropropane
11.744	31374 5	VV	0.068	1	43.242	Dibromomethane
11.997	62144 3	VV	0.072	1	43.759	Bromodichloromethane
12.730	56975 9	VV	0.066	1	42.977	c-1,3-Dichloropropene
13.707	42884 3	VV	0.060	1	42.893	t-1,3-Dichloropropene
13.866	19189 3	VV	0.072	1-I	40.000	Bromochloropropane
14.036	54484 9	VV	0.068	1	42.737	1,1,2-Trichloroethane
14.235	84769 7	VV	0.066	1	84.951	Tetraclethene ; 13Diclpropane
14.721	33888 9	VV	0.069	1	43.848	Dibromochloromethane
14.919	30478 5	VV	0.079	1	47.496	1,2-Dibromoethane (EDB)
15.758	34628 5	VV	0.060	1	43.853	Chlorobenzene
15.906	77796 0	VV	0.072	1	42.220	1,1,1,2-Tetrachloroethane
17.199	18562 5	VV	0.068	1	43.608	Bromoform
17.680	13141 1	VV	0.058	1	97.092	1,4-Dichlorobutane (surr)
18.020	48227 4	VV	0.073	1	127.221	Brbenzene;123triclprop;1122tet
18.327	32118 7	VV	0.059	1	44.322	2-Chlorotoluene
18.516	32426 0	VV	0.058	1	43.845	4-Chlorotoluene
19.599	43762 5	VV	0.054	1	43.102	1,3-Dichlorobenzene
19.752	47064 3	VV	0.056	1	42.783	1,4-Dichlorobenzene
20.382	40967 5	VV	0.056	1	42.989	1,2-Dichlorobenzene
21.711	6570 0	VV	0.060	1	47.389	1,2-Dibromo-3-chloropropane
23.058	36307 7	PV	0.053	1	43.245	1,2,4-Trichlorobenzene
23.330	46146	VV	0.060	1	44.016	Hexachlorobutadiene
23.865	29576 7	VBA	0.055	1	43.873	1,2,3-Trichlorobenzene



ta File Name	: \HPCHEM\1\DATA\092505\011F0101.D		
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strument	: 23	Vial Number	: 11
mple Name	: 50	Injection Number	: 1
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quired on	: 5 Sep 05 10:34 PM	Instrument Method:	8021_HAL.MTH
port Created on:	5 Sep 05 08:04 AM	Analysis Method	: 8021_HAL.MTH
st Recalib on	: 5 SEP 05 07:59 AM	Sample Amount	: 0
ltiplier	:	ISTD Amount	: 40

Internal Standard Report

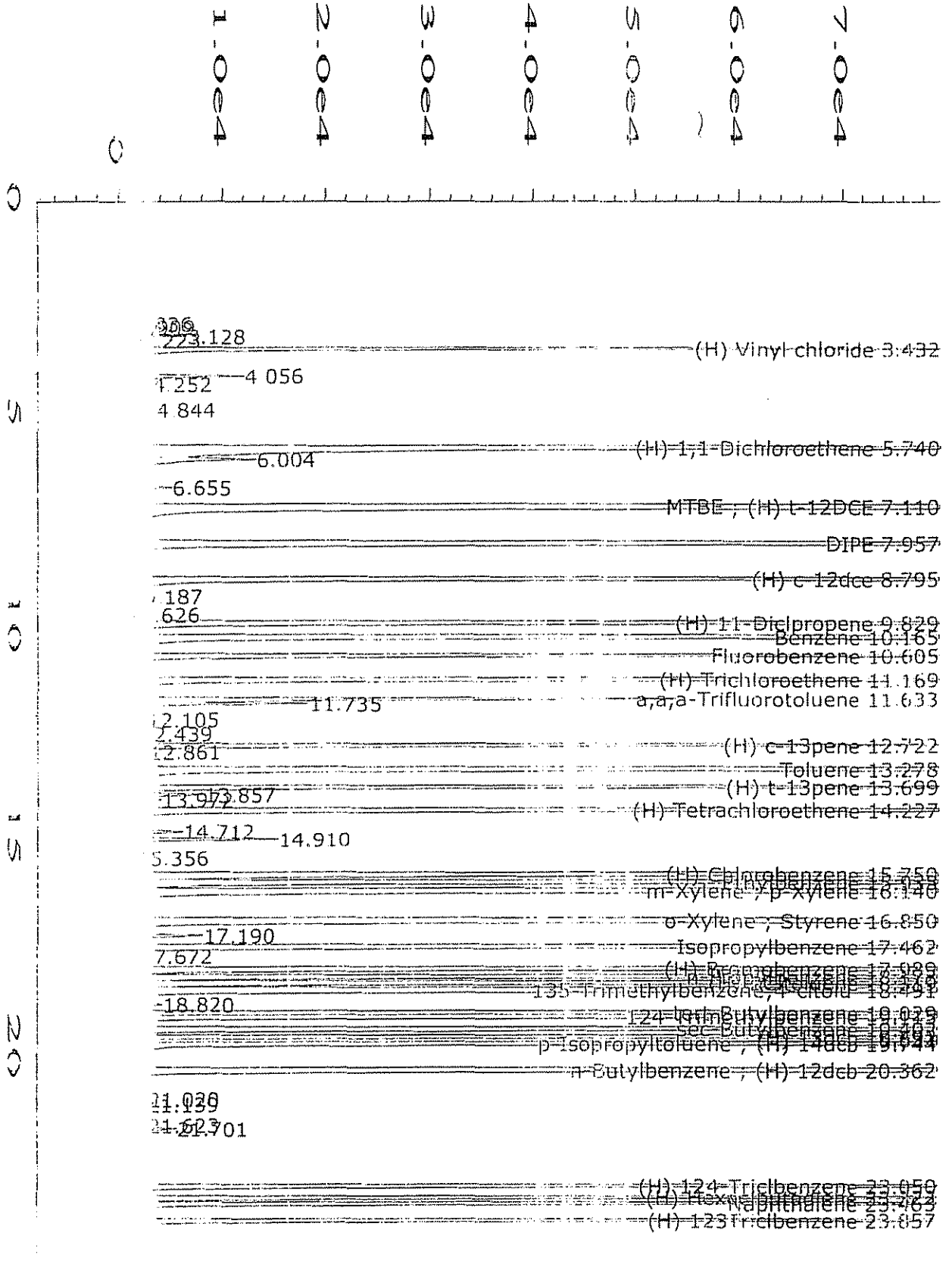
ata File Name : :\HPCHEM\1\DATA\092505\011R0101.D
erator : JC
nstrument : 23
ample Name : 50
n Time Bar Code:
quired on : 5 Sep 05 10:34 PM
port Created on: 5 Sep 05 08:04 AM
st Recalib on : 5 SEP 05 07:47 AM
ultiplier : 1

Page Number : 1
Vial Number : 11
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

q. 2 in C:\HPCHEM 1\DATA\092505\011R0101.D

ec Time	Area	Type	Width	Ref#	µg/L	Name
3.432	3215 3	VV	0.044	1	49.737	(H) Vinyl chloride
5.740	7237 5	BV	0.078	1	49.269	(H) 1,1-Dichloroethene
7.110	21075 5	BV	0.062	1	98.941	MTBE ; (H) t-12DCE
7.957	8233 3	VB	0.080	1	49.319	DIPE
8.795	8321 2	BV	0.057	1	49.627	(H) c-12dce
9.829	7658 5	PV	0.060	1	49.613	(H) 11-Diclpropene
10.165	17899 7	VV	0.059	1	49.580	Benzene
10.605	4054 0	VB	0.059	1-I	40.000	Fluorobenzene
11.169	10403 3	BV	0.056	1	49.660	(H) Trichloroethene
11.633	2089 5	VV	0.062	1	95.189	a,a,a-Trifluorotoluene
12.722	3687 9	BV	0.056	1	49.521	(H) c-13pene
13.278	16608 0	BV	0.060	1	49.607	Toluene
13.699	4131 2	VV	0.054	1	49.473	(H) t-13pene
14.227	7948 5	VV	0.060	1	49.603	(H) Tetrachloroethene
15.750	16674 0	BV	0.054	1	49.585	(H) Chlorobenzene
15.935	14168.5	VV	0.055	1	49.474	Ethylbenzene
16.140	32235 1	VB	0.055	1	98.830	m-Xylene ; p-Xylene
16.850	29447 3	BV	0.069	1	98.911	o-Xylene ; Styrene
17.462	10938 0	VV	0.056	1	49.574	Isopropylbenzene
17.989	14926 3	BV	0.049	1	49.319	(H) Bromobenzene
18.172	12368 0	VV	0.049	1	49.464	n-Propylbenzene
18.319	13698 7	VV	0.051	1	49.489	(H) 2Cltoluene
18.491	31797 1	VV	0.070	1	98.692	135-Trimethylbenzene;4-cltolu
19.029	9504 7	VV	0.054	1	49.448	tert-Butylbenzene
19.115	14080 1	VV	0.049	1	49.440	124-Trimethylbenzene
19.402	9708 0	VV	0.054	1	49.469	sec-Butylbenzene
19.592	14195 1	VV	0.048	1	49.461	(H) 13dcb
19.744	13456 5	VV	0.046	1	98.664	p-Isopropyltoluene ; (H) 14dcb
20.362	18710 0	PV	0.062	1	98.550	n-Butylbenzene ; (H) 12dcb
23.050	5875 0	VV	0.045	1	49.197	(H) 124-Triclbenzene
23.322	3910 0	VV	0.053	1	49.434	(H) Hexaclbutadiene
23.463	5268 3	VV	0.044	1	49.403	Naphthalene
23.857	4639 1	VV	0.046	1	49.230	(H) 123Triclbenzene

alibration table contains at least one peak with amt = 0



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Instrument	: 123	Vial Number	: 11
Sample Name	: 50	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 25 Sep 05 10:34 PM	Instrument Method:	8021_HAL.MTH
Report Created on:	25 Sep 05 08:04 AM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 25 SEP 05 07:47 AM	Sample Amount	: 0
Multiplier	:	ISTD Amount	: 40

601/602 CVS Raw Data

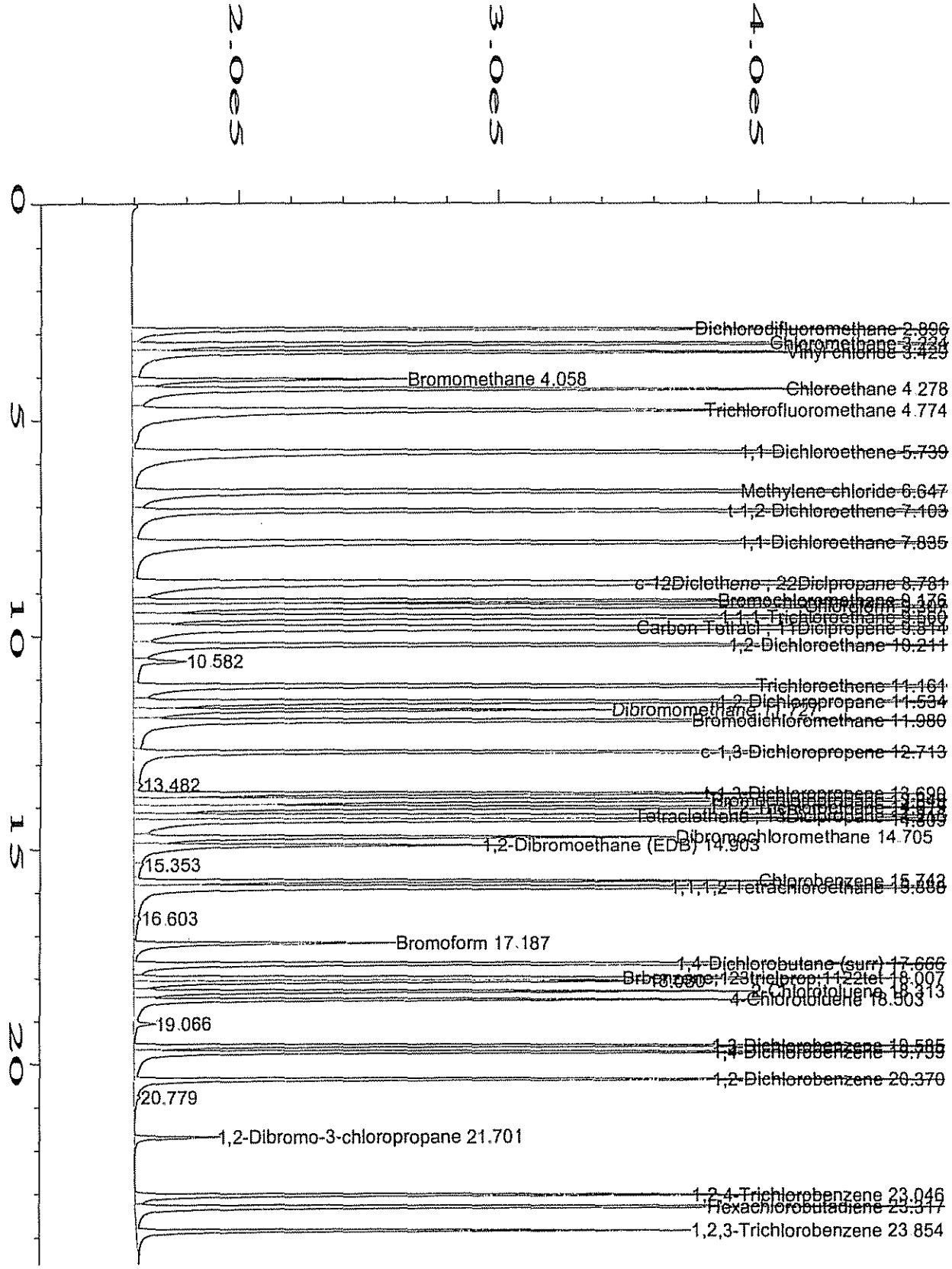
Internal Standard Report

ıta File Name : C:\HPCHEM\1\DATA\101005\004F0101.D
ɔerator : MJC
ıstrument : GC3
ımple Name : qchk010
ın Time Bar Code:
ɔquired on : 10 Oct 05 10:36 AM
ɜport Created on: 10 Oct 05 11:00 AM
ıst Recalib on : 26 SEP 05 07:59 AM
ıltiplier : 1

Page Number : 1
Vial Number : 4
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

ig. 1 in C:\HPCHEM\1\DATA\101005\004F0101.D

ɜt Time	Area	Type	Width	Ref#	µg/L	Name
2.896	1292209	BV	0.047	1	11.699	Dichlorodifluoromethane
3.224	1679247	VV	0.052	1	10.187	Chloromethane
3.429	1373444	VV	0.053	1	10.406	Vinyl chloride
4.058	423997	VV	0.059	1	12.789	Bromomethane
4.278	1366755	VV	0.071	1	10.539	Chloroethane
4.774	1775904	VV	0.094	1	10.304	Trichlorofluoromethane
5.739	2215751	VV	0.078	1	10.525	1,1-Dichloroethene
6.647	2311439	VV	0.066	1	10.398	Methylene chloride
7.103	2230263	VV	0.061	1	10.684	t-1,2-Dichloroethene
7.835	2285636	VV	0.076	1	10.677	1,1-Dichloroethane
8.781	3763775	VV	0.075	1	22.223	c-12Diclethene ; 22Diclpropane
9.176	1180969	VV	0.062	1	10.423	Bromochloromethane
9.307	2789066	VV	0.068	1	10.452	Chloroform
9.560	2516261	VV	0.073	1	10.694	1,1,1-Trichloroethane
9.814	4001360	VV	0.072	1	22.517	Carbon Tetracl ; 11Diclpropene
10.211	1680488	VV	0.066	1	10.339	1,2-Dichloroethane
11.161	2387332	VV	0.063	1	10.596	Trichloroethene
11.534	1899984	VV	0.064	1	10.676	1,2-Dichloropropane
11.727	825561	VV	0.064	1	10.213	Dibromomethane
11.980	1724974	VV	0.068	1	10.693	Bromodichloromethane
12.713	1612481	VV	0.068	1	10.614	c-1,3-Dichloropropene
13.690	1135723	VV	0.059	1	10.048	t-1,3-Dichloropropene
13.849	2118286	VV	0.072	1-I	40.000	Bromochloropropane
14.019	1620387	VV	0.065	1	10.395	1,1,2-Trichloroethane
14.216	2423295	VV	0.061	1	20.741	Tetraclethene ; 13Diclpropane
14.705	922256	VV	0.064	1	10.481	Dibromochloromethane
14.903	748345	VV	0.078	1	10.107	1,2-Dibromoethane (EDB)
15.742	937678	VV	0.054	1	10.407	Chlorobenzene
15.888	2369738	VV	0.067	1	11.036	1,1,1,2-Tetrachloroethane
17.187	448988	VV	0.064	1	9.753	Bromoform
17.666	1493879	VV	0.057	1	99.988	1,4-Dichlorobutane (surr)
18.007	1348147	VV	0.070	1	30.577	Brbenzene;123triclprop;1122tet
18.313	872348	VV	0.054	1	10.465	2-Chlorotoluene
18.503	897073	VV	0.058	1	10.451	4-Chlorotoluene
19.585	1177353	VV	0.051	1	10.031	1,3-Dichlorobenzene
19.739	1325128	VV	0.056	1	10.360	1,4-Dichlorobenzene
20.370	1119775	VV	0.057	1	10.167	1,2-Dichlorobenzene
21.701	141517	PV	0.061	1	8.914	1,2-Dibromo-3-chloropropane
23.046	898190	PV	0.051	1	9.321	1,2,4-Trichlorobenzene
23.317	1229502	VV	0.057	1	10.101	Hexachlorobutadiene
23.854	740606	VBA	0.054	1	9.613	1,2,3-Trichlorobenzene



ata File Name	: C:\HPCHEM\1\DATA\101005\004F0101.D		
perator	: MJC	Page Number	: 1
nstrument	: GC3	Vial Number	: 4
ample Name	: qchk010	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 10 Oct 05 10:36 AM	Instrument Method:	8021_HAL.MTH
eport Created on:	10 Oct 05 11:00 AM	Analysis Method	: 8021_HAL.MTH
ast Recalib on	: 26 SEP 05 07:59 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	: 40

Internal Standard Report

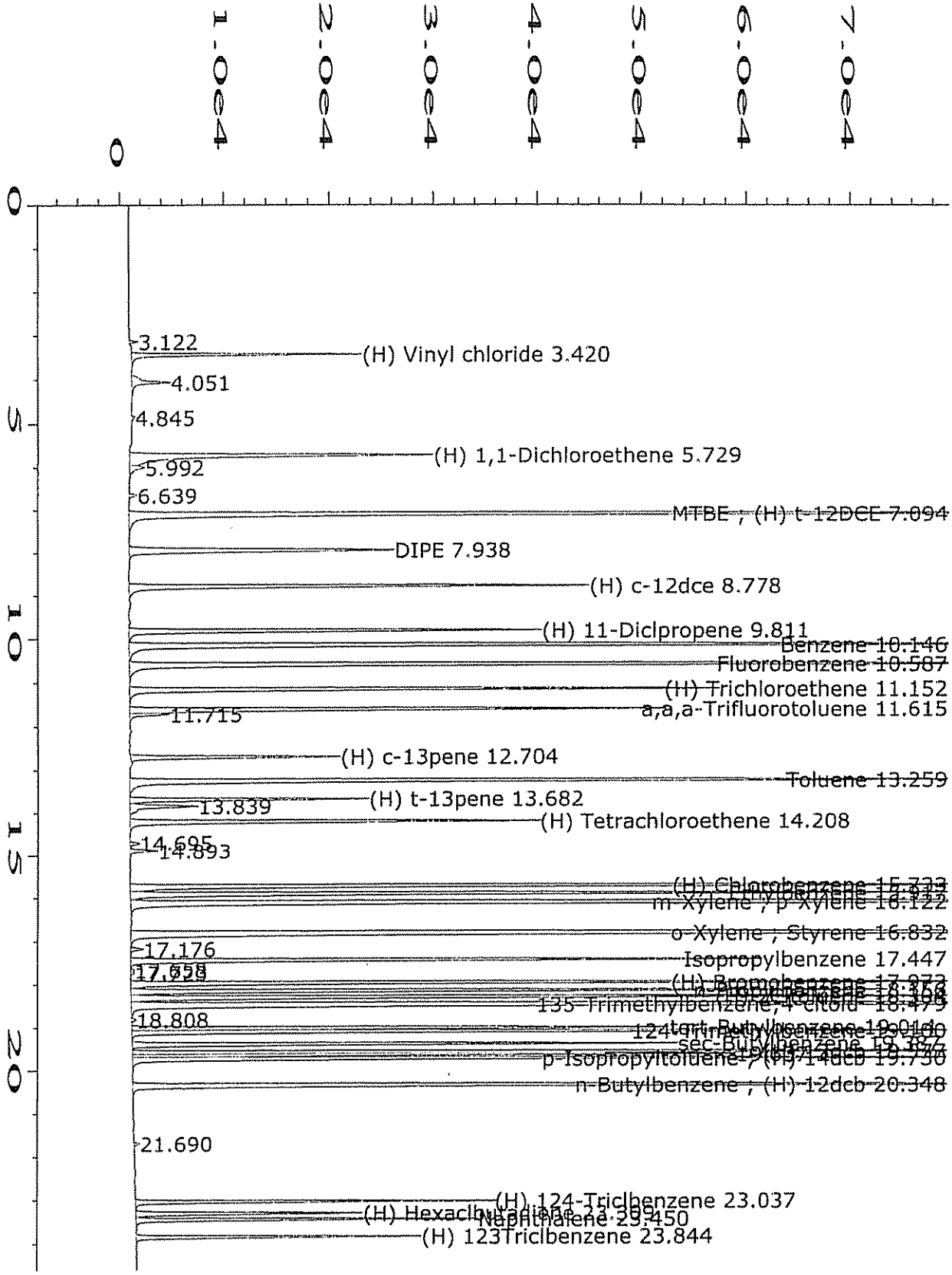
ata File Name : C:\HPCHEM\1\DATA\101005\004R0101.D
perator : MJC
nstrument : GC3
ample Name : qchk010
un Time Bar Code:
cquired on : 10 Oct 05 10:36 AM
eport Created on: 10 Oct 05 11:00 AM
ast Recalib on : 26 SEP 05 07:47 AM
ultiplier : 1

Page Number : 1
Vial Number : 4
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

ig. 2 in C:\HPCHEM\1\DATA\101005\004R0101.D

et Time	Area	Type	Width	Ref#	µg/L	Name
3.420	63290	BB	0.044	1	9.771	(H) Vinyl chloride
5.729	145321	BV	0.075	1	10.277	(H) 1,1-Dichloroethene
7.094	414302	BB	0.058	1	20.047	MTBE ; (H) t-12DCE
7.938	129242	BB	0.079	1	7.832	DIPE
8.778	165438	BV	0.058	1	10.239	(H) c-12dce
9.811	150054	BV	0.059	1	10.080	(H) 11-Diclpropene
10.146	353158	VV	0.059	1	10.129	Benzene
10.587	383247	VB	0.058	1-I	40.000	Fluorobenzene
11.152	201280	BV	0.055	1	9.946	(H) Trichloroethene
11.615	203699	PV	0.062	1	98.168	a,a,a-Trifluorotoluene
12.704	70203	BV	0.055	1	9.710	(H) c-13pene
13.259	324756	BV	0.059	1	10.029	Toluene
13.682	79241	VV	0.054	1	9.763	(H) t-13pene
14.208	151387	VB	0.060	1	9.787	(H) Tetrachloroethene
15.733	321920	BV	0.053	1	9.864	(H) Chlorobenzene
15.917	282859	VV	0.055	1	10.131	Ethylbenzene
16.122	646337	VB	0.055	1	20.253	m-Xylene ; p-Xylene
16.832	582636	BV	0.069	1	20.010	o-Xylene ; Styrene
17.447	213886	BV	0.056	1	9.949	Isopropylbenzene
17.973	298075	BV	0.049	1	10.072	(H) Bromobenzene
18.156	238265	VV	0.051	1	9.749	n-Propylbenzene
18.304	272086	VV	0.050	1	10.069	(H) 2Cltoluene
18.479	626408	VV	0.068	1	19.763	135-Trimethylbenzene;4-cltolu
19.014	178535	PV	0.053	1	9.502	tert-Butylbenzene
19.100	270148	VV	0.050	1	9.707	124-Trimethylbenzene
19.387	180075	VV	0.054	1	9.377	sec-Butylbenzene
19.577	268354	VV	0.047	1	9.603	(H) 13dcb
19.730	259873	VV	0.046	1	19.422	p-Isopropyltoluene ; (H) 14dcb
20.348	353597	BB	0.062	1	18.968	n-Butylbenzene ; (H) 12dcb
23.037	103384	BV	0.047	1	8.846	(H) 124-Triclbenzene
23.309	72496	VV	0.052	1	9.372	(H) Hexaclbutadiene
23.450	95457	VB	0.045	1	9.246	Naphthalene
23.844	81333	BB	0.046	1	8.877	(H) 123Triclbenzene

alibration table contains at least one peak with amt = 0



ata File Name	: C:\HPCHEM\1\DATA\101005\004R0101.D		
perator	: MJC	Page Number	: 1
nstrument	: GC3	Vial Number	: 4
ample Name	: qchk010	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 10 Oct 05 10:36 AM	Instrument Method:	8021_HAL.MTH
eport Created on:	10 Oct 05 11:00 AM	Analysis Method	: 8021_pid.MTH
ast Recalib on	: 26 SEP 05 07:47 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	: 40

601/602 QC, Blanks Raw Data

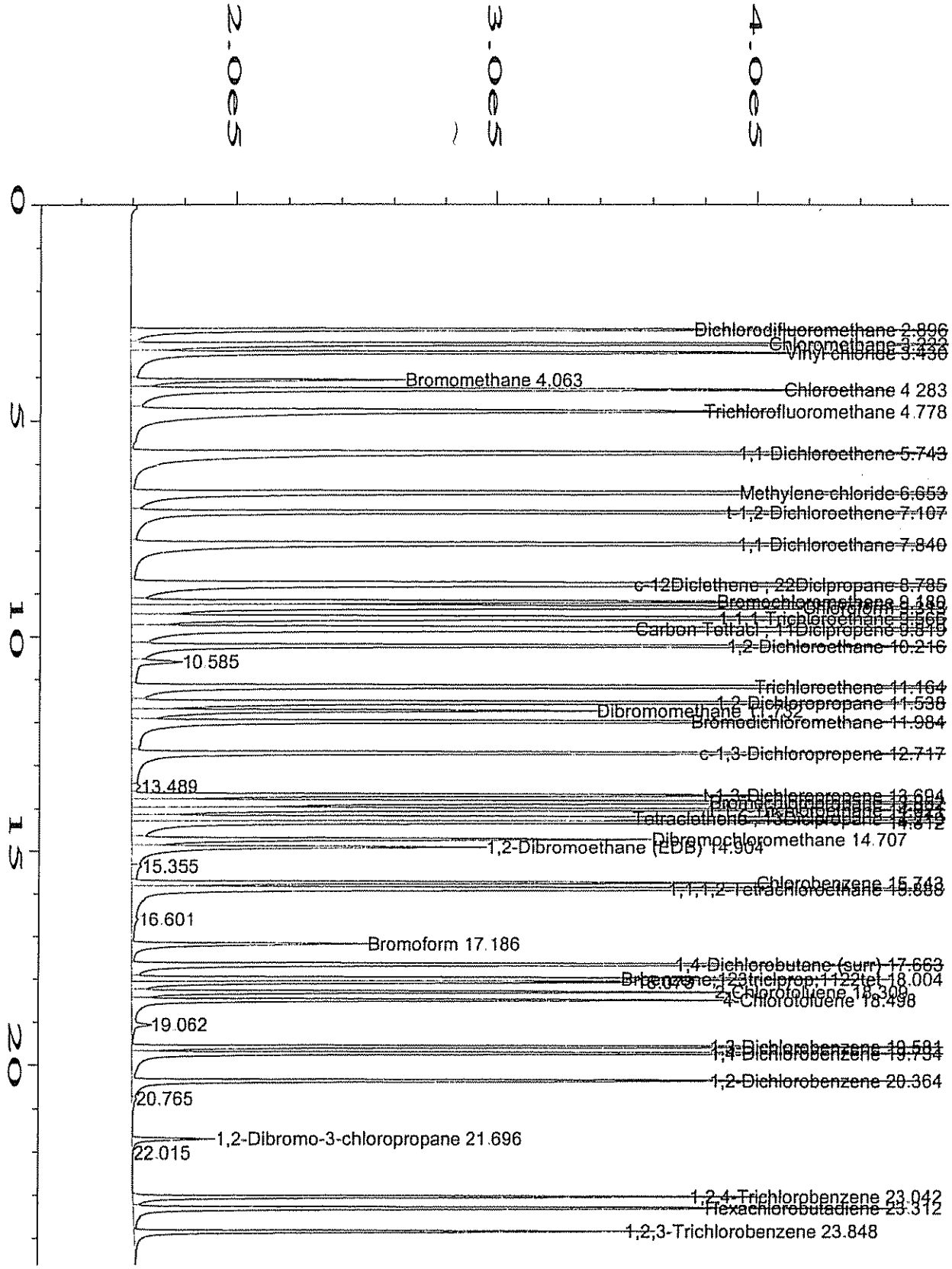
Internal Standard Report

ata File Name : C:\HPCHEM\1\DATA\101005\005F0101.D
perator : MJC
nstrument : GC3
ample Name : lcs3101005a
un Time Bar Code:
cquired on : 10 Oct 05 11:07 AM
eport Created on: 10 Oct 05 11:31 AM
ast Recalib on : 26 SEP 05 07:59 AM
ultiplier : 1

Page Number : 1
Vial Number : 5
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

ig. 1 in C:\HPCHEM\1\DATA\101005\005F0101.D

et Time	Area	Type	Width	Ref#	µg/L	Name
2.896	1289520	BV	0.044	1	11.738	Dichlorodifluoromethane
3.222	1678477	VV	0.052	1	10.238	Chloromethane
3.430	1380902	VV	0.054	1	10.527	Vinyl chloride
4.063	410743	VV	0.055	1	12.452	Bromomethane
4.283	1366408	VV	0.071	1	10.595	Chloroethane
4.778	1791329	VV	0.097	1	10.455	Trichlorofluoromethane
5.743	2228219	VV	0.082	1	10.645	1,1-Dichloroethene
6.653	2304300	VV	0.063	1	10.422	Methylene chloride
7.107	2222782	VV	0.061	1	10.705	t-1,2-Dichloroethene
7.840	2291312	VV	0.078	1	10.765	1,1-Dichloroethane
8.785	3706473	VV	0.074	1	21.983	c-12Diclethene ; 22Diclpropane
9.180	1172686	VV	0.059	1	10.404	Bromochloromethane
9.313	2797740	VV	0.065	1	10.546	Chloroform
9.566	2518941	VV	0.073	1	10.767	1,1,1-Trichloroethane
9.819	3998320	VV	0.069	1	22.627	Carbon Tetracl ; 11Diclpropene
10.216	1647221	VV	0.063	1	10.177	1,2-Dichloroethane
11.164	2396424	VV	0.059	1	10.699	Trichloroethene
11.538	1890182	VV	0.068	1	10.677	1,2-Dichloropropane
11.732	804979	VV	0.066	1	10.008	Dibromomethane
11.984	1732773	VV	0.071	1	10.802	Bromodichloromethane
12.717	1596575	VV	0.066	1	10.563	c-1,3-Dichloropropene
13.694	1114993	VV	0.055	1	9.912	t-1,3-Dichloropropene
13.852	2107157	VV	0.069	1-I	40.000	Bromochloropropane
14.021	1547190	VV	0.065	1	9.916	1,1,2-Trichloroethane
14.219	2443324	VV	0.060	1	21.045	Tetraclethene ; 13Diclpropane
14.707	883771	VV	0.064	1	10.080	Dibromochloromethane
14.904	732993	VV	0.075	1	9.943	1,2-Dibromoethane (EDB)
15.743	922702	VV	0.055	1	10.289	Chlorobenzene
15.888	2317885	VV	0.069	1	10.838	1,1,1,2-Tetrachloroethane
17.186	407019	VV	0.066	1	8.910	Bromoform
17.663	1449207	VV	0.060	1	97.510	1,4-Dichlorobutane (surr)
18.004	1279903	VV	0.061	1	29.082	Brbenzene;123triclprop;1122tet
18.309	854972	VV	0.059	1	10.302	2-Chlorotoluene
18.498	880404	VV	0.056	1	10.301	4-Chlorotoluene
19.581	1160981	VV	0.050	1	9.939	1,3-Dichlorobenzene
19.734	1286805	VV	0.055	1	10.096	1,4-Dichlorobenzene
20.364	1057329	VV	0.052	1	9.619	1,2-Dichlorobenzene
21.696	125844	PV	0.057	1	7.925	1,2-Dibromo-3-chloropropane
23.042	840105	BV	0.051	1	8.736	1,2,4-Trichlorobenzene
23.312	1139938	VV	0.057	1	9.368	Hexachlorobutadiene
23.848	693053	VBA	0.055	1	9.017	1,2,3-Trichlorobenzene



ata File Name	: C:\HPCHEM\1\DATA\101005\005F0101.D		
perator	: MJC	Page Number	: 1
nstrument	: GC3	Vial Number	: 5
ample Name	: lcs3101005a	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 10 Oct 05 11:07 AM	Instrument Method:	8021_HAL.MTH
eport Created on:	10 Oct 05 11:31 AM	Analysis Method	: 8021_HAL.MTH
ast Recalib on	: 26 SEP 05 07:59 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	: 40

Internal Standard Report

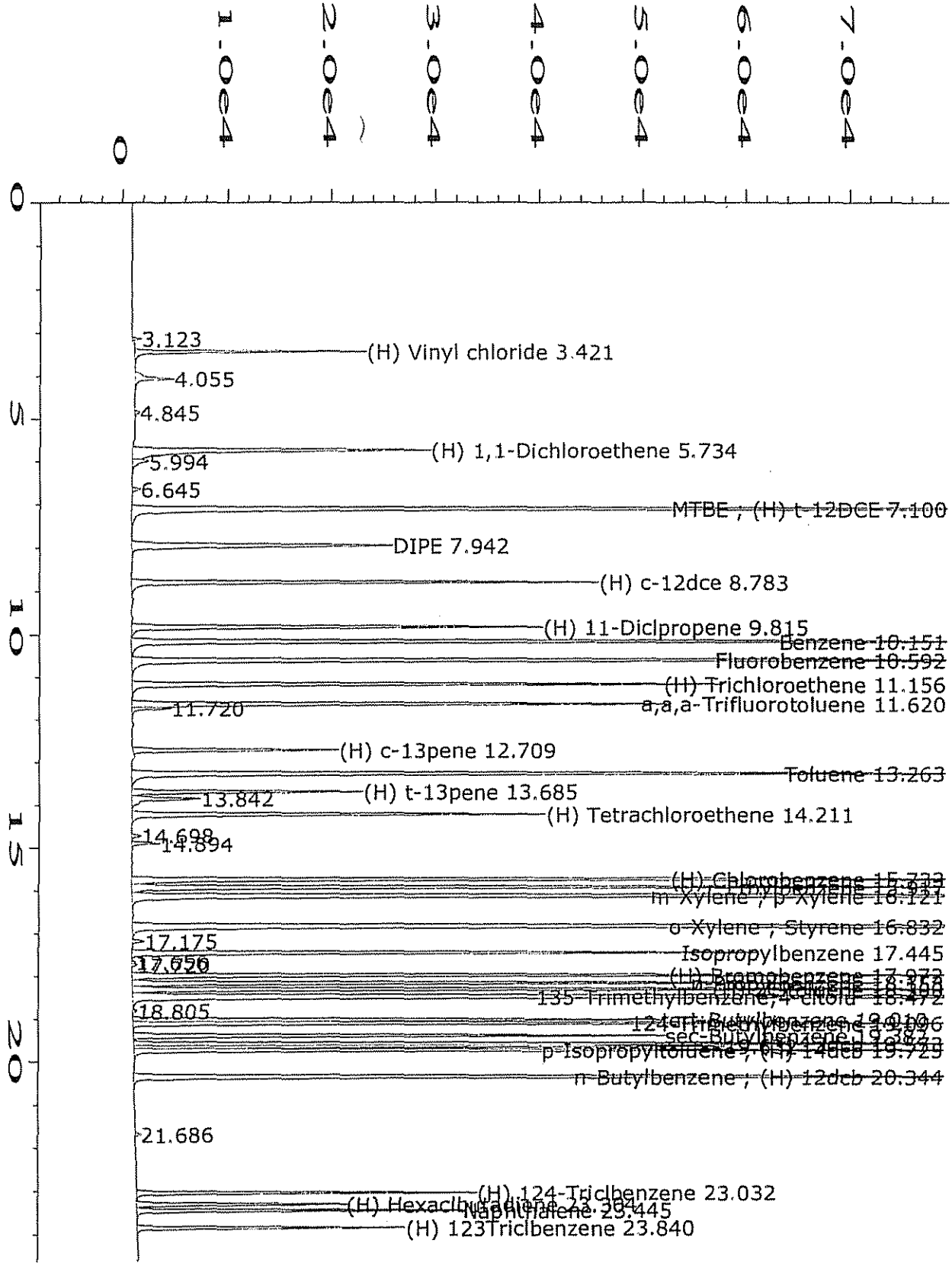
ata File Name : C:\HPCHEM\1\DATA\101005\005R0101.D
perator : MJC
nstrument : GC3
ample Name : lcs3101005a
un Time Bar Code:
cquired on : 10 Oct 05 11:07 AM
eport Created on: 10 Oct 05 11:31 AM
ast Recalib on : 26 SEP 05 07:47 AM
ultiplier : 1

Page Number : 1
Vial Number : 5
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

ig. 2 in C:\HPCHEM\1\DATA\101005\005R0101.D

et Time	Area	Type	Width	Ref#	µg/L	Name
3.421	63244	BB	0.043	1	9.738	(H) Vinyl chloride
5.734	145326	BV	0.074	1	10.252	(H) 1,1-Dichloroethene
7.100	412252	BB	0.058	1	19.895	MTBE ; (H) t-12DCE
7.942	127398	BB	0.080	1	7.694	DIPE
8.783	165152	BV	0.057	1	10.195	(H) c-12dce
9.815	150213	PV	0.059	1	10.066	(H) 11-Diclpropene
10.151	354777	VV	0.058	1	10.151	Benzene
10.592	384171	VB	0.058	1-I	40.000	Fluorobenzene
11.156	202091	BV	0.055	1	9.963	(H) Trichloroethene
11.620	204414	PV	0.062	1	98.276	a,a,a-Trifluorotoluene
12.709	69191	BV	0.055	1	9.541	(H) c-13pene
13.263	325855	BV	0.059	1	10.039	Toluene
13.685	77016	VV	0.054	1	9.455	(H) t-13pene
14.211	151626	VB	0.059	1	9.778	(H) Tetrachloroethene
15.733	322502	BV	0.053	1	9.858	(H) Chlorobenzene
15.917	283407	VV	0.055	1	10.126	Ethylbenzene
16.121	649641	VB	0.055	1	20.310	m-Xylene ; p-Xylene
16.832	582697	BV	0.069	1	19.962	o-Xylene ; Styrene
17.445	213935	BV	0.055	1	9.926	Isopropylbenzene
17.972	295379	BV	0.049	1	9.952	(H) Bromobenzene
18.153	237177	VV	0.051	1	9.678	n-Propylbenzene
18.300	271187	VV	0.050	1	10.009	(H) 2Cltoluene
18.472	623930	VV	0.069	1	19.631	135-Trimethylbenzene;4-cltolu
19.010	177602	PV	0.054	1	9.426	tert-Butylbenzene
19.096	266531	VV	0.050	1	9.547	124-Trimethylbenzene
19.382	177337	PV	0.054	1	9.205	sec-Butylbenzene
19.573	264727	VV	0.048	1	9.444	(H) 13dcb
19.725	256396	VB	0.047	1	19.101	p-Isopropyltoluene ; (H) 14dcb
20.344	344603	BB	0.062	1	18.415	n-Butylbenzene ; (H) 12dcb
23.032	98170	BV	0.047	1	8.359	(H) 124-Triclbenzene
23.304	68391	VV	0.053	1	8.796	(H) Hexaclbutadiene
23.445	91375	VB	0.045	1	8.817	Naphthalene
23.840	77453	BB	0.047	1	8.418	(H) 123Triclbenzene

alibration table contains at least one peak with amt = 0



ata File Name	: C:\HPCHEM\1\DATA\101005\005R0101.D		
perator	: MJC	Page Number	: 1
nstrument	: GC3	Vial Number	: 5
ample Name	: lcs3101005a	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 10 Oct 05 11:07 AM	Instrument Method:	8021_HAL.MTH
eport Created on:	10 Oct 05 11:31 AM	Analysis Method	: 8021_pid.MTH
ast Recalib on	: 26 SEP 05 07:47 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	: 40

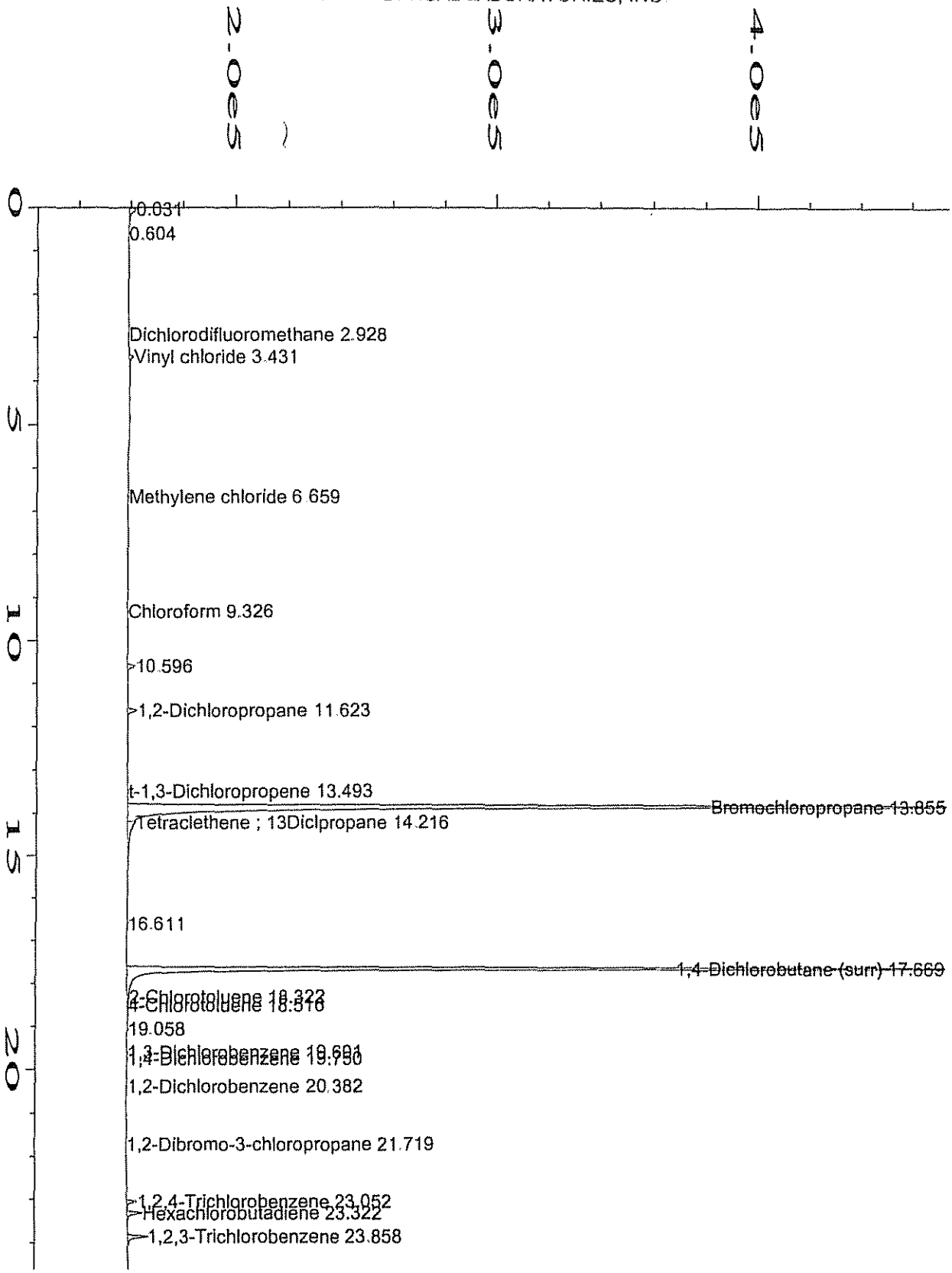
Internal Standard Report

ata File Name : C:\HPCHEM\1\DATA\101005\007F0101.D
perator : MJC
nstrument : GC3
ample Name : vblk3101005a
un Time Bar Code:
cquired on : 10 Oct 05 12:09 PM
eport Created on: 10 Oct 05 12:33 PM
ast Recalib on : 26 SEP 05 07:59 AM
ultiplier : 1

Page Number : 1
Vial Number : 7
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

ig. 1 in C:\HPCHEM\1\DATA\101005\007F0101.D

et Time	Area	Type	Width	Ref#	µg/L	Name
2.928	1388	BB	0.076	1	-0.398	Dichlorodifluoromethane
3.228	* not found *			1		Chloromethane
3.431	14660	BB	0.105	1	-0.666	Vinyl chloride
4.060	* not found *			1		Bromomethane
4.275	* not found *			1		Chloroethane
4.780	* not found *			1		Trichlorofluoromethane
5.748	* not found *			1		1,1-Dichloroethene
6.659	2145	BB	0.064	1	-0.796	Methylene chloride
7.114	* not found *			1		t-1,2-Dichloroethene
7.847	* not found *			1		1,1-Dichloroethane
8.797	* not found *			1		c-12Diclethene ; 22Diclpropane
9.193	* not found *			1		Bromochloromethane
9.326	978	BB	0.049	1	-0.706	Chloroform
9.578	* not found *			1		1,1,1-Trichloroethane
9.833	* not found *			1		Carbon Tetracl ; 11Diclpropene
10.228	* not found *			1		1,2-Dichloroethane
11.178	* not found *			1		Trichloroethene
11.623	20438	BB	0.076	1	-0.564	1,2-Dichloropropane
11.745	* not found *			1		Dibromomethane
11.999	* not found *			1		Bromodichloromethane
12.731	* not found *			1		c-1,3-Dichloropropene
13.493	1988	BB	0.064	1	-0.300	t-1,3-Dichloropropene
13.855	1976467	BV	0.070	1-I	40.000	Bromochloropropane
14.037	* not found *			1		1,1,2-Trichloroethane
14.216	56060	VB	0.207	1	-1.143	Tetraclethene ; 13Diclpropane
14.722	* not found *			1		Dibromochloromethane
14.920	* not found *			1		1,2-Dibromoethane (EDB)
15.759	* not found *			1		Chlorobenzene
15.906	* not found *			1		1,1,1,2-Tetrachloroethane
17.201	* not found *			1		Bromoform
17.669	1385811	BV	0.057	1	99.410	1,4-Dichlorobutane (surr)
18.022	* not found *			1		Brbenzene;123triclprop;1122tet
18.322	6766	VV	0.106	1	-0.492	2-Chlorotoluene
18.516	5239	VB	0.123	1	-0.648	4-Chlorotoluene
19.601	1643	BV	0.063	1	-0.610	1,3-Dichlorobenzene
19.750	2191	VB	0.077	1	-0.722	1,4-Dichlorobenzene
20.382	1765	BB	0.070	1	-0.617	1,2-Dichlorobenzene
21.719	909	BV	0.111	1	-0.349	1,2-Dibromo-3-chloropropane
23.052	11178	PV	0.043	1	-0.347	1,2,4-Trichlorobenzene
23.322	26589	VV	0.062	1	-0.439	Hexachlorobutadiene
23.858	33313	PV	0.060	1	0.0451	1,2,3-Trichlorobenzene



ata File Name	: C:\HPCHEM\1\DATA\101005\007F0101.D		
perator	: MJC	Page Number	: 1
nstrument	: GC3	Vial Number	: 7
ample Name	: vblk3101005a	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 10 Oct 05 12:09 PM	Instrument Method	: 8021_HAL.MTH
eport Created on	: 10 Oct 05 12:33 PM	Analysis Method	: 8021_HAL.MTH
ast Recalib on	: 26 SEP 05 07:59 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	: 40

Internal Standard Report

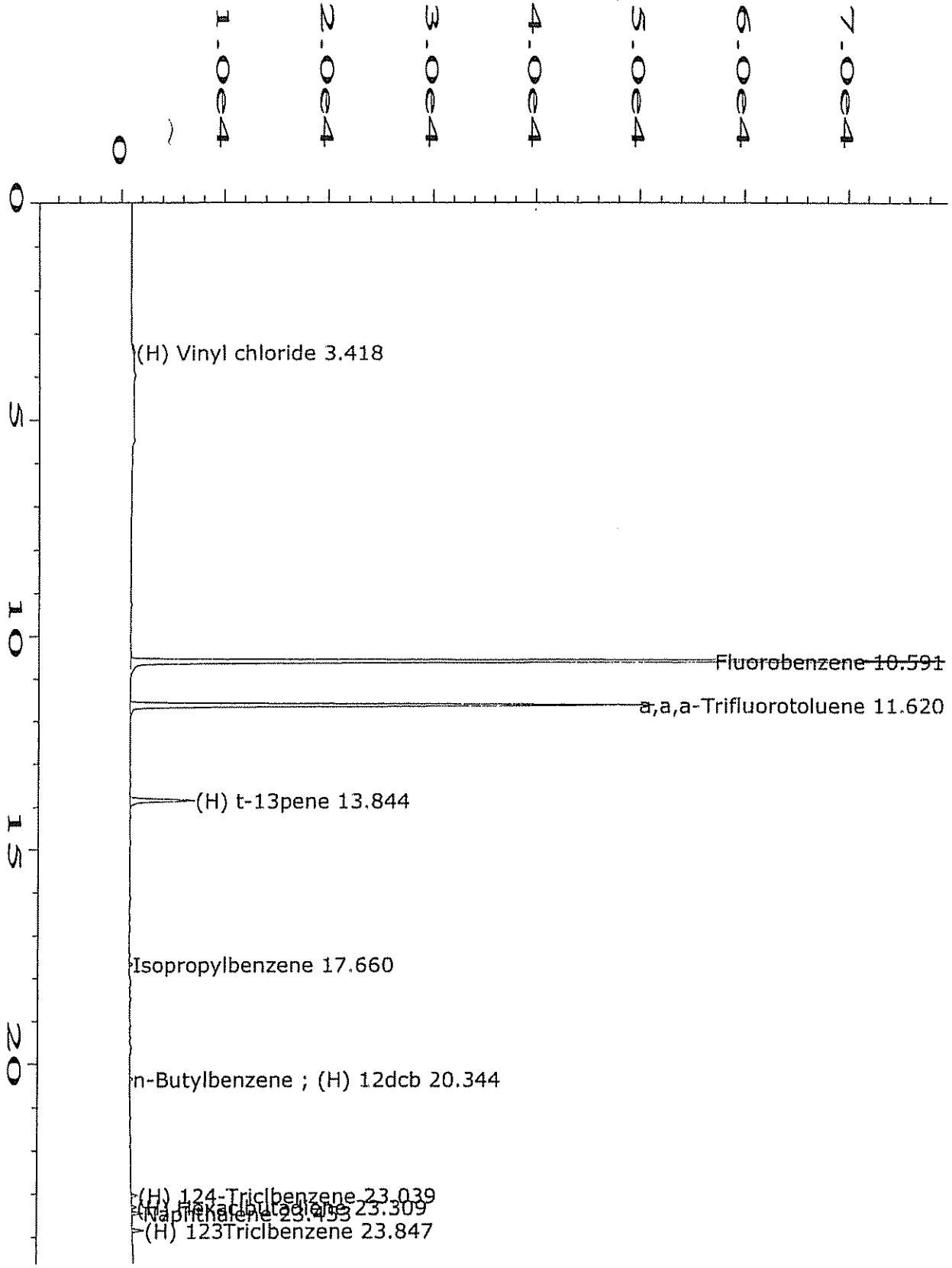
ıta File Name	: C:\HPCHEM\1\DATA\101005\007R0101.D		
ɔerator	: MJC	Page Number	: 1
ıstrument	: GC3	Vial Number	: 7
ımple Name	: vblk3101005a	Injection Number	: 1
ın Time Bar Code:		Sequence Line	: 1
ɔquired on	: 10 Oct 05 12:09 PM	Instrument Method:	8021_HAL.MTH
ɔport Created on:	10 Oct 05 12:33 PM	Analysis Method	: 8021_pid.MTH
ıst Recalib on	: 26 SEP 05 07:47 AM	Sample Amount	: 0
ıltiplier	: 1	ISTD Amount	: 40

ıg. 2 in C:\HPCHEM\1\DATA\101005\007R0101.D

ɜt Time	Area	Type	Width	Ref#	µg/L	Name
3.418	2331	BB	0.119	1	-0.340	(H) Vinyl chloride
5.740	* not found *			1		(H) 1,1-Dichloroethene
7.110	* not found *			1		MTBE ; (H) t-12DCE
7.957	* not found *			1		DIPE
8.795	* not found *			1		(H) c-12dce
9.829	* not found *			1		(H) 11-Diclpropene
10.165	* not found *			1		Benzene
10.591	370848	BB	0.057	1-I	40.000	Fluorobenzene
11.169	* not found *			1		(H) Trichloroethene
11.620	201776	BB	0.062	1	100.493	a,a,a-Trifluorotoluene
12.722	* not found *			1		(H) c-13pene
13.278	* not found *			1		Toluene
13.844	27189	BB	0.066	1	3.238	(H) t-13pene
14.227	* not found *			1		(H) Tetrachloroethene
15.750	* not found *			1		(H) Chlorobenzene
15.935	* not found *			1		Ethylbenzene
16.140	* not found *			1		m-Xylene ; p-Xylene
16.850	* not found *			1		o-Xylene ; Styrene
17.660	1060	BB	0.051	1	-0.334	Isopropylbenzene
17.989	* not found *			1		(H) Bromobenzene
18.172	* not found *			1		n-Propylbenzene
18.319	* not found *			1		(H) 2Cltoluene
18.491	* not found *			1		135-Trimethylbenzene;4-cltolu
19.029	* not found *			1		tert-Butylbenzene
19.115	* not found *			1		124-Trimethylbenzene
19.402	* not found *			1		sec-Butylbenzene
19.592	* not found *			1		(H) 13dcb
19.744	* not found *			1		p-Isopropyltoluene ; (H) 14dcb
20.344	1207	BB	0.059	1	-0.850	n-Butylbenzene ; (H) 12dcb
23.039	1932	BB	0.048	1	-0.206	(H) 124-Triclbenzene
23.309	1551	BV	0.052	1	-0.189	(H) Hexaclbutadiene
23.453	3385	VB	0.047	1	0.0717	Naphthalene
23.847	3533	BB	0.047	1	0.101	(H) 123Triclbenzene

ɜlibration table contains at least one peak with amt = 0

ɔt all calibrated peaks were found



ata File Name	: C:\HPCHEM\1\DATA\101005\007R0101.D		
perator	: MJC	Page Number	: 1
nstrument	: GC3	Vial Number	: 7
ample Name	: vblk3101005a	Injection Number	: 1
in Time Bar Code:		Sequence Line	: 1
cquired on	: 10 Oct 05 12:09 PM	Instrument Method	: 8021_HAL.MTH
eport Created on:	10 Oct 05 12:33 PM	Analysis Method	: 8021_pid.MTH
ast Recalib on	: 26 SEP 05 07:47 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	: 40

Internal Standard Report

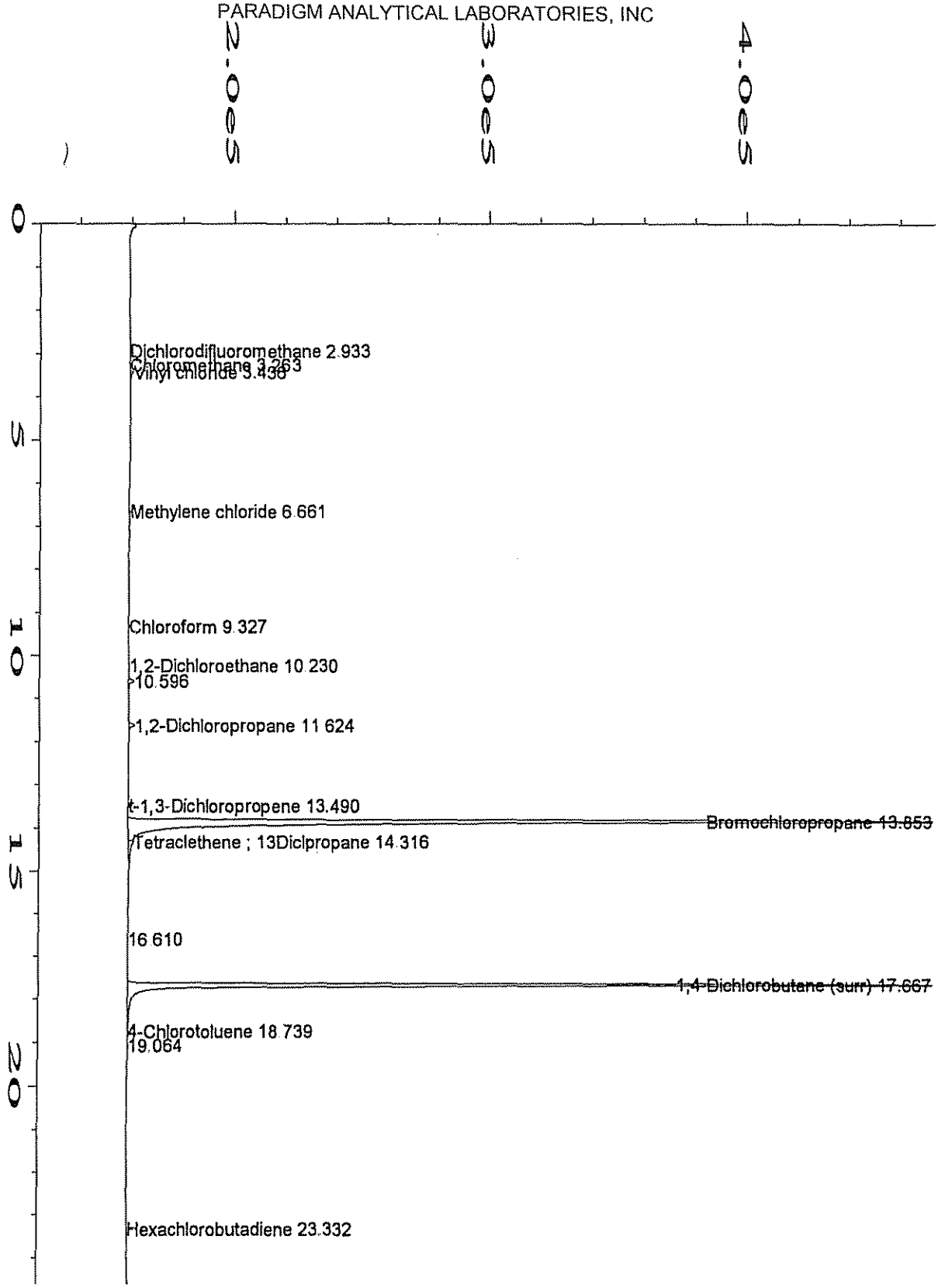
Data File Name : C:\HPCHEM\1\DATA\101005\022F0101.D
Operator : MJC
Instrument : GC3
Sample Name : 167923 x1600
Run Time Bar Code:
Acquired on : 10 Oct 05 07:52 PM
Report Created on: 04 Nov 05 08:31 AM
Last Recalib on : 26 SEP 05 07:59 AM
Multiplier : 1

Page Number : 1
Vial Number : 22
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 925_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

Sig. 1 in C:\HPCHEM\1\DATA\101005\022F0101.D

Ret Time	Area	Type	Width	Ref#	µg/L	Name
2.933	783	BB	0.069	1	-0.404	Dichlorodifluoromethane
3.263	644	BB	0.060	1	-0.433	Chloromethane
3.436	5667	BB	0.060	1	-0.743	Vinyl chloride
4.060	* not found *			1		Bromomethane
4.275	* not found *			1		Chloroethane
4.780	* not found *			1		Trichlorofluoromethane
5.748	* not found *			1		1,1-Dichloroethene
6.661	2499	BB	0.070	1	-0.794	Methylene chloride
7.114	* not found *			1		t-1,2-Dichloroethene
7.847	* not found *			1		1,1-Dichloroethane
8.797	* not found *			1		c-12Diclethene ; 22Diclpropane
9.193	* not found *			1		Bromochloromethane
9.327	1039	BB	0.062	1	-0.705	Chloroform
9.578	* not found *			1		1,1,1-Trichloroethane
9.833	* not found *			1		Carbon Tetracl ; 11Diclpropene
10.230	1214	BB	0.071	1	-0.721	1,2-Dichloroethane
11.178	* not found *			1		Trichloroethene
11.624	15432	BB	0.089	1	-0.594	1,2-Dichloropropane
11.745	* not found *			1		Dibromomethane
11.999	* not found *			1		Bromodichloromethane
12.731	* not found *			1		c-1,3-Dichloropropene
13.490	1602	BB	0.068	1	-0.304	t-1,3-Dichloropropene
13.853	1929966	BV	0.073	1-I	40.000	Bromochloropropane
14.037	* not found *			1		1,1,2-Trichloroethane
14.316	33326	VB	0.183	1	-1.361	Tetraclethene ; 13Diclpropane
14.722	* not found *			1		Dibromochloromethane
14.920	* not found *			1		1,2-Dibromoethane (EDB)
15.759	* not found *			1		Chlorobenzene
15.906	* not found *			1		1,1,1,2-Tetrachloroethane
17.201	* not found *			1		Bromoform
17.667	1371668	BV	0.059	1	100.767	1,4-Dichlorobutane (surr)
18.022	* not found *			1		Brbenzene;123triclprop;1122tet
18.328	* not found *			1		2-Chlorotoluene
18.739	892	VB	0.095	1	-0.705	4-Chlorotoluene
19.599	* not found *			1		1,3-Dichlorobenzene
19.752	* not found *			1		1,4-Dichlorobenzene
20.382	* not found *			1		1,2-Dichlorobenzene
21.710	* not found *			1		1,2-Dibromo-3-chloropropane
23.057	* not found *			1		1,2,4-Trichlorobenzene
23.332	1273	BB	0.071	1	-0.677	Hexachlorobutadiene
23.865	* not found *			1		1,2,3-Trichlorobenzene

Calibration table contains at least one peak with amt = 0



Data File Name	: C:\HPCHEM\1\DATA\101005\022F0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 22
Sample Name	: 167923 x1600	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 10 Oct 05 07:52 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 04 Nov 05 08:31 AM	Analysis Method	: 925_HAL.MTH
Last Recalib on	: 26 SEP 05 07:59 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

Internal Standard Report

Data File Name : C:\HPCHEM\1\DATA\101005\022R0101.D
Operator : MJC
Instrument : GC3
Sample Name : 167923 x1600
Run Time Bar Code:
Acquired on : 10 Oct 05 07:52 PM
Report Created on: 04 Nov 05 08:31 AM
Last Recalib on : 17 OCT 05 09:04 AM
Multiplier : 1

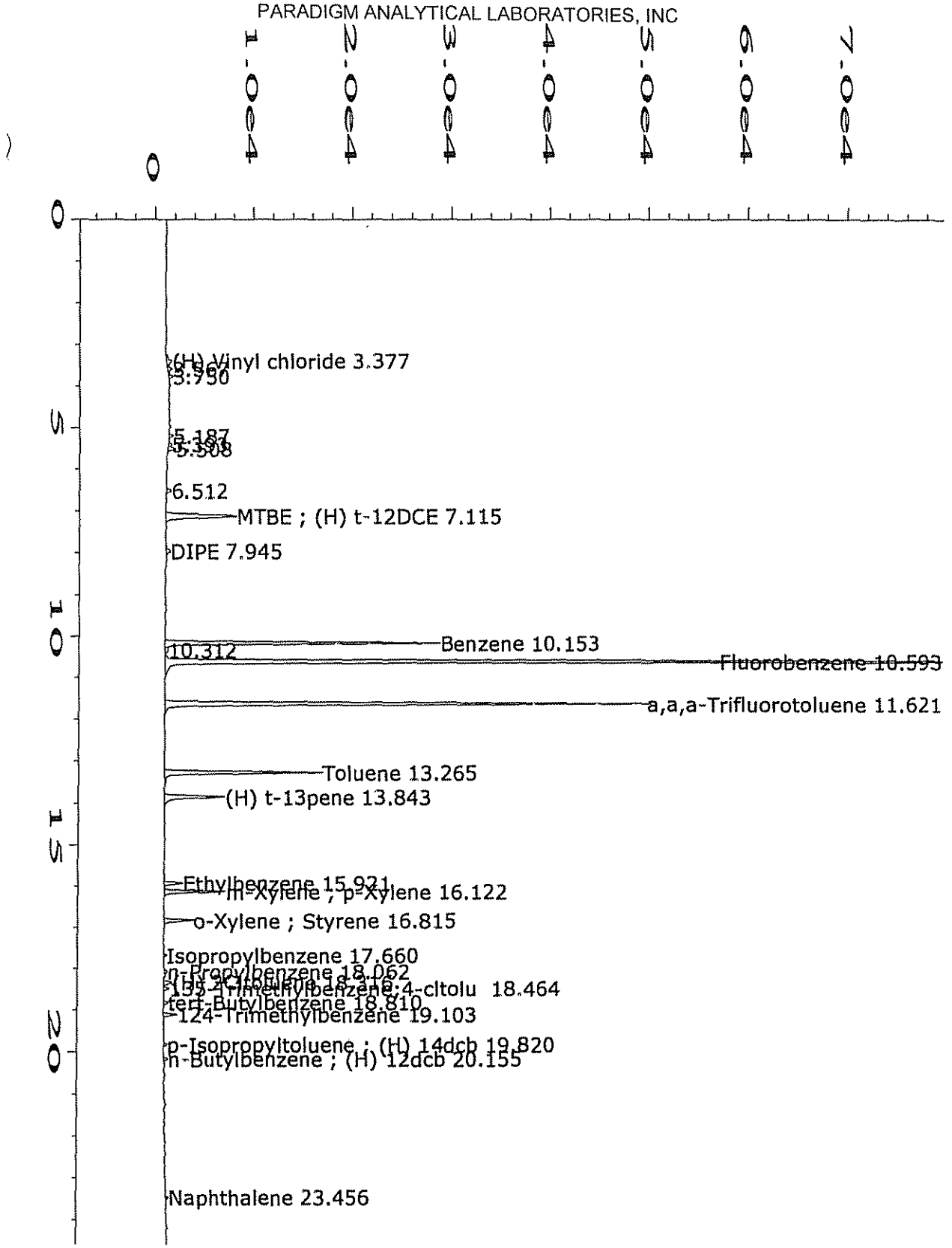
Page Number : 1
Vial Number : 22
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

Sig. 2 in C:\HPCHEM\1\DATA\101005\022R0101.D

Ret Time	Area	Type	Width	Ref#	µg/L	Name
3.377	4432	BV	0.108	1	0.104	(H) Vinyl chloride
5.724	* not found *			1		(H) 1,1-Dichloroethene
7.115	39248	BV	0.083	1	1.028	MTBE ; (H) t-12DCE
7.945	3146	VV	0.095	1	-0.406	DIPE
8.769	* not found *			1		(H) c-12dce
9.798	* not found *			1		(H) 11-Diclpropene
10.153	102707	BV	0.058	1	2.842	Benzene
10.593	364250	VB	0.058	1-I	40.000	Fluorobenzene
11.138	* not found *			1		(H) Trichloroethene
11.621	196072	BB	0.062	1	101.357	a,a,a-Trifluorotoluene
12.688	* not found *			1		(H) c-13pene
13.265	61426	BB	0.059	1	1.630	Toluene
13.843	27351	BB	0.067	1	4.676	(H) t-13pene
14.192	* not found *			1		(H) Tetrachloroethene
15.715	* not found *			1		(H) Chlorobenzene
15.921	6930	BV	0.056	1	-0.359	Ethylbenzene
16.122	22444	VB	0.055	1	-0.542	m-Xylene ; p-Xylene
16.815	10979	BB	0.056	1	-0.897	o-Xylene ; Styrene
17.660	1137	BB	0.053	1	-0.538	Isopropylbenzene
17.956	* not found *			1		(H) Bromobenzene
18.062	1309	BV	0.058	1	-0.551	n-Propylbenzene
18.316	3708	BV	0.061	1	-0.483	(H) 2Cltoluene
18.464	1929	VB	0.049	1	-1.329	135-Trimethylbenzene;4-cltolu
18.810	1747	BB	0.054	1	-0.444	tert-Butylbenzene
19.103	4478	BB	0.050	1	-0.380	124-Trimethylbenzene
19.371	* not found *			1		sec-Butylbenzene
19.560	* not found *			1		(H) 13dcb
19.820	1243	BB	0.049	1	-1.111	p-Isopropyltoluene ; (H) 14dcb
20.155	1627	BV	0.052	1	-1.044	n-Butylbenzene ; (H) 12dcb
23.019	* not found *			1		(H) 124-Triclbenzene
23.291	* not found *			1		(H) Hexaclbutadiene
23.456	902	BV	0.045	1	0.114	Naphthalene
23.826	* not found *			1		(H) 123Triclbenzene

Calibration table contains at least one peak with amt = 0

Not all calibrated peaks were found



Data File Name	: C:\HPCHEM\1\DATA\101005\022R0101.D		
Operator	: MJC	Page Number	: 1
Instrument	: GC3	Vial Number	: 22
Sample Name	: 167923 x1600	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 10 Oct 05 07:52 PM	Instrument Method	: 8021_HAL.MTH
Report Created on	: 04 Nov 05 08:31 AM	Analysis Method	: 8021_pid.MTH
Last Recalib on	: 17 OCT 05 09:04 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	: 40

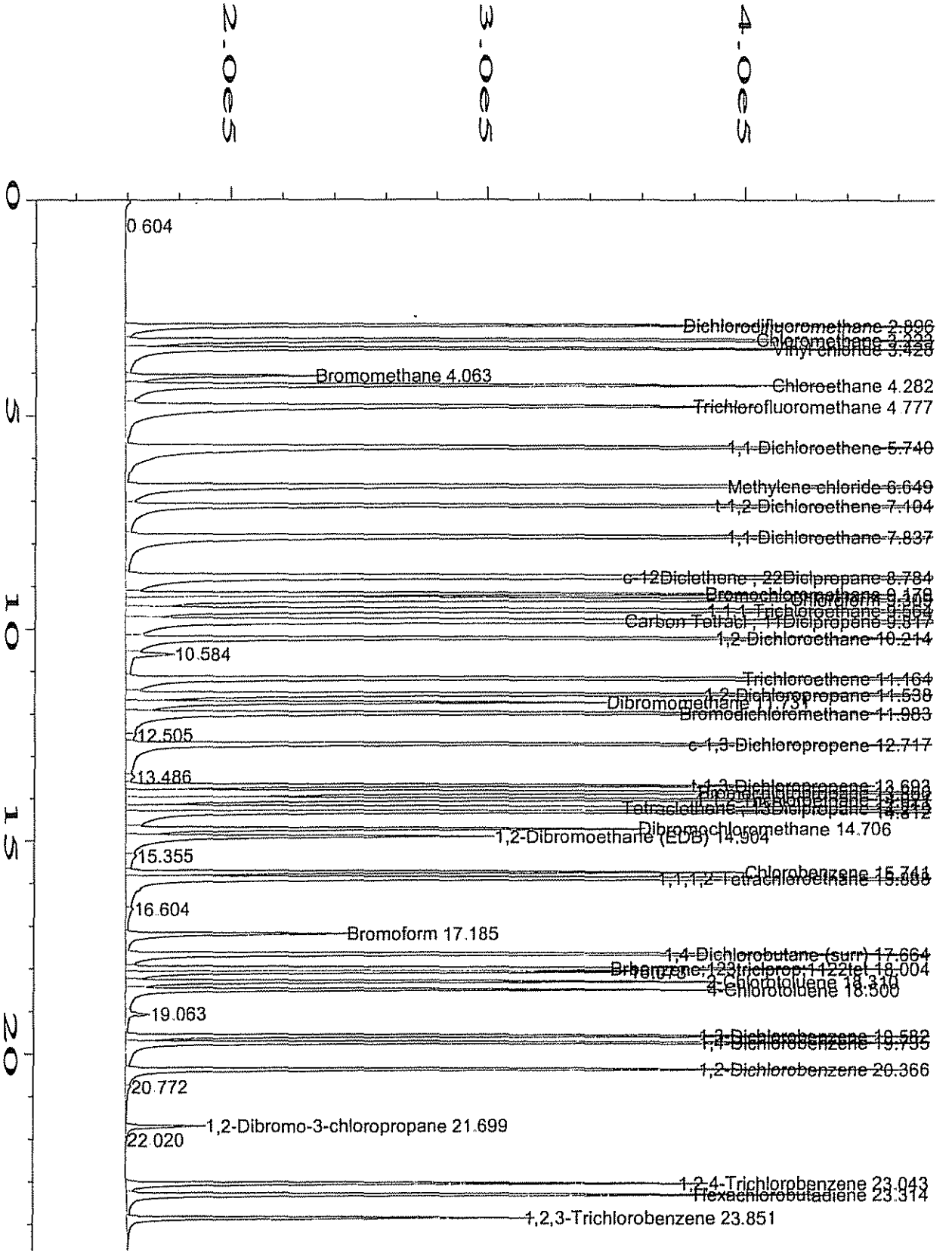
Internal Standard Report

ıta File Name : C:\HPCHEM\1\DATA\101005\023F0101.D
ɔerator : MJC
ıstrument : GC3
ımple Name : ~~167923~~ x1600 ms
ın Time Bar Code: 161-2182-18a x1600 ms
ɔquired on : 10 Oct 05 08:23 PM
ɜport Created on: 10 Oct 05 08:48 PM
ıst Recalib on : 26 SEP 05 07:59 AM
ıltiplier : 1

Page Number : 1
Vial Number : 23
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

ıg. 1 in C:\HPCHEM\1\DATA\101005\023F0101.D

ɜt Time	Area	Type	Width	Ref#	µg/L	Name
2.896	1206873	BV	0.045	1	11.235	Dichlorodifluoromethane
3.223	1583224	VV	0.048	1	9.876	Chloromethane
3.428	1307866	VV	0.054	1	10.188	Vinyl chloride
4.063	328739	VV	0.067	1	10.193	Bromomethane
4.282	1300205	VV	0.071	1	10.313	Chloroethane
4.777	1757196	VV	0.098	1	10.506	Trichlorofluoromethane
5.740	2195519	VV	0.079	1	10.747	1,1-Dichloroethene
6.649	2195320	VV	0.065	1	10.150	Methylene chloride
7.104	2132573	VV	0.063	1	10.507	t-1,2-Dichloroethene
7.837	2269607	VV	0.076	1	10.931	1,1-Dichloroethane
8.784	3561606	VV	0.073	1	21.607	c-12Diclethene ; 22Diclpropane
9.179	1199233	VV	0.060	1	10.922	Bromochloromethane
9.309	2769166	VV	0.071	1	10.701	Chloroform
9.564	2481605	VV	0.073	1	10.871	1,1,1-Trichloroethane
9.817	3937074	VV	0.072	1	22.836	Carbon Tetracl ; 11Diclpropene
10.214	1702091	VV	0.061	1	10.814	1,2-Dichloroethane
11.164	2349714	VV	0.062	1	10.747	Trichloroethene
11.538	1887501	VV	0.068	1	10.935	1,2-Dichloropropane
11.731	827890	VV	0.064	1	10.549	Dibromomethane
11.983	1713530	VV	0.070	1	10.946	Bromodichloromethane
12.717	1590964	VV	0.062	1	10.791	c-1,3-Dichloropropene
13.693	1102389	VV	0.058	1	10.042	t-1,3-Dichloropropene
13.850	2057352	VV	0.073	1-I	40.000	Bromochloropropane
14.021	1603128	VV	0.067	1	10.617	1,1,2-Trichloroethane
14.219	2391297	VV	0.061	1	21.100	Tetraclethene ; 13Diclpropane
14.706	891051	VV	0.065	1	10.424	Dibromochloromethane
14.904	747150	VV	0.075	1	10.407	1,2-Dibromoethane (EDB)
15.741	882856	VV	0.057	1	10.074	Chlorobenzene
15.888	2296466	VV	0.066	1	11.010	1,1,1,2-Tetrachloroethane
17.185	409619	VV	0.070	1	9.176	Bromoform
17.664	1469149	VV	0.059	1	101.245	1,4-Dichlorobutane (surr)
18.004	1372113	VV	0.063	1	32.147	Brbenzene;123triclprop;1122tet
18.310	840268	VV	0.057	1	10.374	2-Chlorotoluene
18.500	887319	VV	0.060	1	10.657	4-Chlorotoluene
19.582	1158090	VV	0.052	1	10.167	1,3-Dichlorobenzene
19.735	1292036	VV	0.053	1	10.403	1,4-Dichlorobenzene
20.366	1074186	VV	0.056	1	10.034	1,2-Dichlorobenzene
21.699	125897	VV	0.059	1	8.130	1,2-Dibromo-3-chloropropane
23.043	748157	BV	0.054	1	7.926	1,2,4-Trichlorobenzene
23.314	1034611	VV	0.057	1	8.660	Hexachlorobutadiene
23.851	546030	VBA	0.052	1	7.191	1,2,3-Trichlorobenzene



ata File Name	: C:\HPCHEM\1\DATA\101005\023F0101.D		
perator	: MJC	Page Number	: 1
nstrument	: GC3	Vial Number	: 23
ample Name	: 167923 x1600 ms	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 10 Oct 05 08:23 PM	Instrument Method:	8021_HAL.MTH
eport Created on:	10 Oct 05 08:48 PM	Analysis Method	: 8021_HAL.MTH
ast Recalib on	: 26 SEP 05 07:59 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	: 40

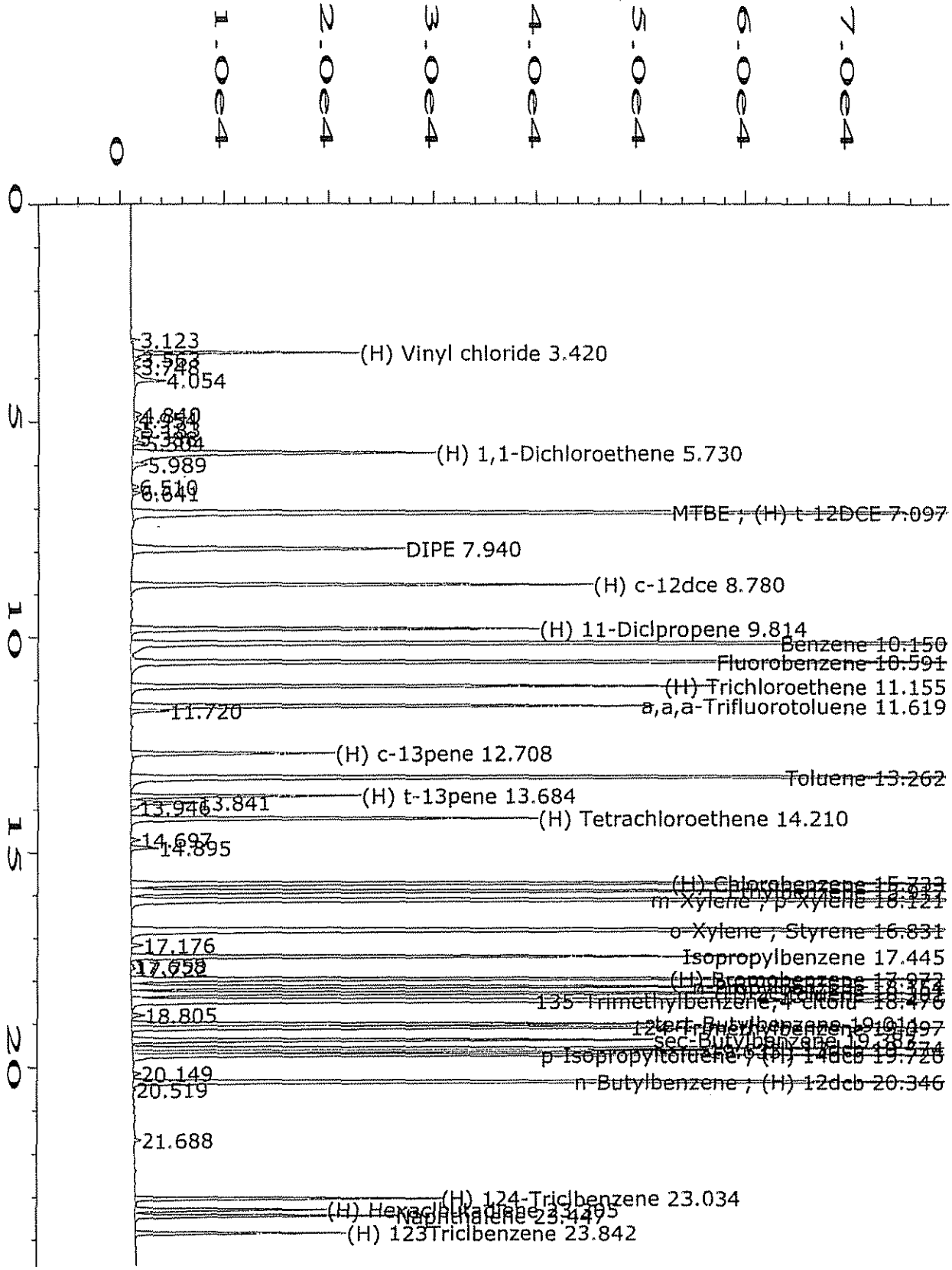
Internal Standard Report

ıta File Name	: C:\HPCHEM\1\DATA\101005\023R0101.D		
ɔerator	: MJC	Page Number	: 1
ıstrument	: GC3	Vial Number	: 23
ımple Name	: 167923 x1600 ms	Injection Number	: 1
ın Time Bar Code:		Sequence Line	: 1
ɔquired on	: 10 Oct 05 08:23 PM	Instrument Method:	8021_HAL.MTH
ɜport Created on:	10 Oct 05 08:48 PM	Analysis Method	: 8021_pid.MTH
ıst Recalib on	: 26 SEP 05 07:47 AM	Sample Amount	: 0
ıltiplier	: 1	ISTD Amount	: 40

ig. 2 in C:\HPCHEM\1\DATA\101005\023R0101.D

ɜt Time	Area	Type	Width	Ref#	µg/L	Name
3.420	61876	BV	0.043	1	9.729	(H) Vinyl chloride
5.730	144721	PV	0.076	1	10.430	(H) 1,1-Dichloroethene
7.097	459095	BV	0.060	1	22.719	MTBE ; (H) t-12DCE
7.940	131810	VV	0.078	1	8.155	DIPE
8.780	164848	BV	0.057	1	10.398	(H) c-12dce
9.814	148847	VV	0.059	1	10.190	(H) 11-Diclpropene
10.150	491892	VV	0.058	1	14.491	Benzene
10.591	376164	VV	0.058	1-I	40.000	Fluorobenzene
11.155	200340	VV	0.055	1	10.090	(H) Trichloroethene
11.619	199194	PV	0.062	1	97.804	a,a,a-Trifluorotoluene
12.708	68600	BV	0.055	1	9.665	(H) c-13pene
13.262	406690	BV	0.058	1	12.877	Toluene
13.684	76886	VV	0.054	1	9.647	(H) t-13pene
14.210	148816	PB	0.059	1	9.802	(H) Tetrachloroethene
15.733	319669	BV	0.054	1	9.984	(H) Chlorobenzene
15.917	290529	VV	0.055	1	10.621	Ethylbenzene
16.121	673089	VB	0.055	1	21.543	m-Xylene ; p-Xylene
16.831	592896	BV	0.069	1	20.778	o-Xylene ; Styrene
17.445	210690	BV	0.055	1	9.986	Isopropylbenzene
17.972	297186	BV	0.049	1	10.238	(H) Bromobenzene
18.154	233353	VV	0.051	1	9.727	n-Propylbenzene
18.301	273226	VV	0.051	1	10.311	(H) 2Cltoluene
18.476	615821	VV	0.069	1	19.796	135-Trimethylbenzene;4-cltolu
19.011	174484	VV	0.053	1	9.459	tert-Butylbenzene
19.097	269480	VV	0.050	1	9.872	124-Trimethylbenzene
19.383	173136	PV	0.054	1	9.177	sec-Butylbenzene
19.574	263027	VV	0.047	1	9.589	(H) 13dcb
19.726	255437	VV	0.047	1	19.451	p-Isopropyltoluene ; (H) 14dcb
20.346	336960	VV	0.062	1	18.389	n-Butylbenzene ; (H) 12dcb
23.034	88261	BV	0.047	1	7.644	(H) 124-Triclbenzene
23.305	61715	VV	0.053	1	8.074	(H) Hexaclbutadiene
23.447	74442	VB	0.045	1	7.289	Naphthalene
23.842	60384	BB	0.046	1	6.639	(H) 123Triclbenzene

alibration table contains at least one peak with amt = 0



ata File Name	: C:\HPCHEM\1\DATA\101005\023R0101.D		
perator	: MJC	Page Number	: 1
nstrument	: GC3	Vial Number	: 23
ample Name	: 167923 x1600 ms	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 10 Oct 05 08:23 PM	Instrument Method	: 8021_HAL.MTH
eport Created on	: 10 Oct 05 08:48 PM	Analysis Method	: 8021_pid.MTH
ast Recalib on	: 26 SEP 05 07:47 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	: 40

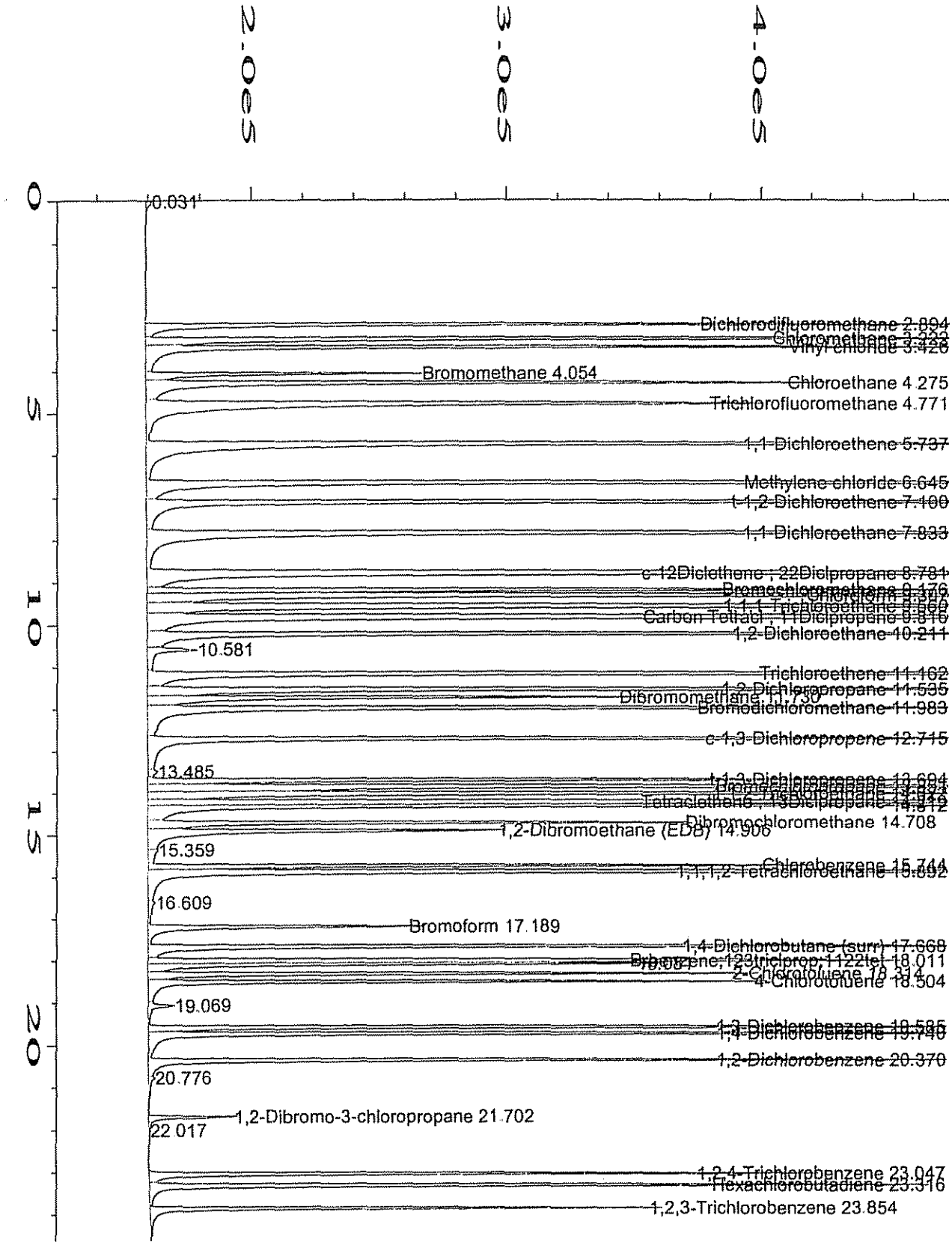
Internal Standard Report

ata File Name : C:\HPCHEM\1\DATA\101005\024F0101.D
perator : MJC
nstrument : GC3
ample Name : 167923 x1600 msd
in Time Bar Code:
cquired on : 10 Oct 05 08:54 PM
eport Created on: 10 Oct 05 09:19 PM
ast Recalib on : 26 SEP 05 07:59 AM
ultiplier : 1

Page Number : 1
Vial Number : 24
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_HAL.MTH
Sample Amount : 0
ISTD Amount : 40

ig. 1 in C:\HPCHEM\1\DATA\101005\024F0101.D

et Time	Area	Type	Width	Ref#	µg/L	Name
2.894	1227936	BV	0.045	1	11.294	Dichlorodifluoromethane
3.222	1590615	VV	0.051	1	9.798	Chloromethane
3.426	1308853	VV	0.054	1	10.062	Vinyl chloride
4.054	414470	VV	0.056	1	12.715	Bromomethane
4.275	1292773	VV	0.071	1	10.121	Chloroethane
4.771	1742253	VV	0.093	1	10.281	Trichlorofluoromethane
5.737	2257787	VV	0.084	1	10.926	1,1-Dichloroethene
6.645	2368182	VV	0.068	1	10.869	Methylene chloride
7.100	2210173	VV	0.063	1	10.774	t-1,2-Dichloroethene
7.833	2334902	VV	0.078	1	11.119	1,1-Dichloroethane
8.781	3697902	VV	0.073	1	22.206	c-12Diclethene ; 22Diclpropane
9.176	1236317	VV	0.061	1	11.132	Bromochloromethane
9.307	2857368	VV	0.064	1	10.921	Chloroform
9.560	2587053	VV	0.073	1	11.219	1,1,1-Trichloroethane
9.816	4120057	VV	0.069	1	23.668	Carbon Tetracl ; 11Diclpropene
10.211	1734392	VV	0.065	1	10.890	1,2-Dichloroethane
11.162	2428170	VV	0.062	1	10.984	Trichloroethene
11.535	1974544	VV	0.068	1	11.324	1,2-Dichloropropane
11.730	854119	VV	0.066	1	10.753	Dibromomethane
11.983	1821497	VV	0.068	1	11.515	Bromodichloromethane
12.715	1642720	VV	0.066	1	11.018	c-1,3-Dichloropropene
13.694	1166074	VV	0.060	1	10.507	t-1,3-Dichloropropene
13.851	2082666	VV	0.073	1-I	40.000	Bromochloropropane
14.022	1669143	VV	0.065	1	10.964	1,1,2-Trichloroethane
14.219	2491107	VV	0.066	1	21.763	Tetraclethene ; 13Diclpropane
14.708	944484	VV	0.066	1	10.935	Dibromochloromethane
14.906	756448	VV	0.079	1	10.408	1,2-Dibromoethane (EDB)
15.744	945698	VV	0.055	1	10.687	Chlorobenzene
15.892	2431147	VV	0.065	1	11.553	1,1,1,2-Tetrachloroethane
17.189	476611	VV	0.069	1	10.510	Bromoform
17.668	1419303	VV	0.056	1	96.621	1,4-Dichlorobutane (surr)
18.011	1337851	VV	0.074	1	30.883	Brbenzene;123triclprop;1122tet
18.314	868617	VV	0.058	1	10.606	2-Chlorotoluene
18.504	919908	VV	0.057	1	10.931	4-Chlorotoluene
19.585	1190896	VV	0.055	1	10.338	1,3-Dichlorobenzene
19.740	1342468	VV	0.054	1	10.698	1,4-Dichlorobenzene
20.370	1123620	VV	0.053	1	10.390	1,2-Dichlorobenzene
21.702	136780	VV	0.058	1	8.756	1,2-Dibromo-3-chloropropane
23.047	867910	BV	0.054	1	9.152	1,2,4-Trichlorobenzene
23.316	1126602	VV	0.055	1	9.367	Hexachlorobutadiene
23.854	697667	VBA	0.052	1	9.192	1,2,3-Trichlorobenzene



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nstrument	: GC3	Vial Number	: 24
ample Name	: 167923 x1600 msd	Injection Number	: 1
un Time Bar Code	:	Sequence Line	: 1
cquired on	: 10 Oct 05 08:54 PM	Instrument Method	: 8021_HAL.MTH
eport Created on	: 10 Oct 05 09:19 PM	Analysis Method	: 8021_HAL.MTH
ast Recalib on	: 26 SEP 05 07:59 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	: 40

Internal Standard Report

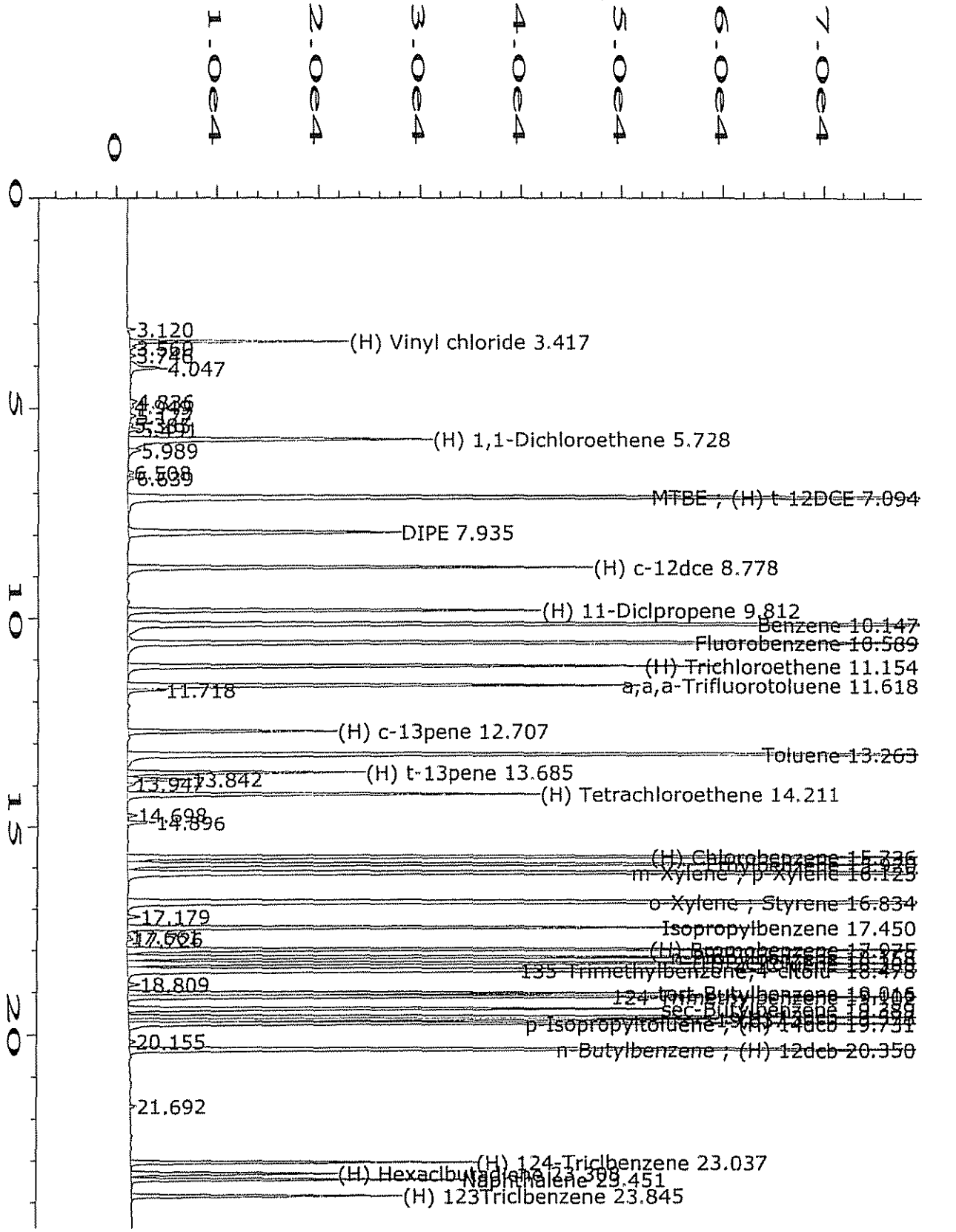
ata File Name : C:\HPCHEM\1\DATA\101005\024R0101.D
perator : MJC
nstrument : GC3
ample Name : 167923 x1600 msd
an Time Bar Code:
cquired on : 10 Oct 05 08:54 PM
eport Created on: 10 Oct 05 09:19 PM
ast Recalib on : 26 SEP 05 07:47 AM
ultiplier : 1

Page Number : 1
Vial Number : 24
Injection Number : 1
Sequence Line : 1
Instrument Method: 8021_HAL.MTH
Analysis Method : 8021_pid.MTH
Sample Amount : 0
ISTD Amount : 40

ig. 2 in C:\HPCHEM\1\DATA\101005\024R0101.D

et Time	Area	Type	Width	Ref#	µg/L	Name
3.417	61489	BV	0.043	1	9.593	(H) Vinyl chloride
5.728	150271	BV	0.075	1	10.764	(H) 1,1-Dichloroethene
7.094	478103	BB	0.061	1	23.521	MTBE ; (H) t-12DCE
7.935	136733	VV	0.076	1	8.414	DIPE
8.778	171307	BV	0.058	1	10.740	(H) c-12dce
9.812	154720	VV	0.059	1	10.528	(H) 11-Diclpropene
10.147	500222	PV	0.058	1	14.638	Benzene
10.589	378752	VB	0.058	1-I	40.000	Fluorobenzene
11.154	208582	BB	0.055	1	10.443	(H) Trichloroethene
11.618	199832	BV	0.062	1	97.447	a,a,a-Trifluorotoluene
12.707	72700	BV	0.055	1	10.190	(H) c-13pene
13.263	416407	BV	0.059	1	13.100	Toluene
13.685	81952	VV	0.054	1	10.233	(H) t-13pene
14.211	155750	VB	0.060	1	10.199	(H) Tetrachloroethene
15.736	335290	BV	0.053	1	10.414	(H) Chlorobenzene
15.920	302195	VV	0.055	1	10.985	Ethylbenzene
16.125	699517	VB	0.055	1	22.265	m-Xylene ; p-Xylene
16.834	619065	BV	0.069	1	21.580	o-Xylene ; Styrene
17.450	221296	VV	0.055	1	10.434	Isopropylbenzene
17.975	310733	BV	0.050	1	10.649	(H) Bromobenzene
18.158	244687	VV	0.051	1	10.147	n-Propylbenzene
18.305	285891	VV	0.051	1	10.732	(H) 2Cltoluene
18.478	647475	VV	0.060	1	20.717	135-Trimethylbenzene;4-cltolu
19.016	183682	VV	0.054	1	9.908	tert-Butylbenzene
19.102	282507	VV	0.050	1	10.295	124-Trimethylbenzene
19.389	182927	PV	0.054	1	9.650	sec-Butylbenzene
19.578	276701	PV	0.047	1	10.035	(H) 13dcb
19.731	269556	VV	0.046	1	20.431	p-Isopropyltoluene ; (H) 14dcb
20.350	356563	PV	0.061	1	19.373	n-Butylbenzene ; (H) 12dcb
23.037	102161	BV	0.046	1	8.845	(H) 124-Triclbenzene
23.308	69019	VV	0.053	1	9.013	(H) Hexaclbutadiene
23.451	96431	VV	0.045	1	9.457	Naphthalene
23.845	80041	BB	0.046	1	8.838	(H) 123Triclbenzene

alibration table contains at least one peak with amt = 0



ata File Name	: C:\HPCHEM\1\DATA\101005\024R0101.D		
perator	: MJC	Page Number	: 1
nstrument	: GC3	Vial Number	: 24
ample Name	: 167923 x1600 msd	Injection Number	: 1
un Time Bar Code:		Sequence Line	: 1
cquired on	: 10 Oct 05 08:54 PM	Instrument Method:	8021_HAL.MTH
eport Created on:	10 Oct 05 09:19 PM	Analysis Method	: 8021_pid.MTH
ast Recalib on	: 26 SEP 05 07:47 AM	Sample Amount	: 0
ultiplier	: 1	ISTD Amount	: 40

601/602 Prep, Standard, Run Logs

8021S/WBQ-7-092505-C82
8021S/SGQ-7-100705-C82

Paradigm Analytical
GC3

8021S/WBC-7-092505-C81
8021S/SGC-7-100705-C81

Method: 8021/5030/5035 601/602/6230D/8021
Matrix: Soil Water

Initial Cal. Curve: water 09/25/05
(5035S 06/28/05) - (5030 10/14/04)
Batch: 101005

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	HALL	PID
043F0101.D	G443-224-1A x4 msd	10/11/05 6:41	cid= 168240 ✓	✓	✓	MJC	✓	✓
044F0101.D	b	10/11/05 7:12				MJC		
045F0101.D	b	10/11/05 7:43				MJC		

PARADIGM ANALYTICAL LABORATORIES, INC

N.C. CERTIFICATION #481

Page Number: 2940

See Top for Standard Lot Numbers

8021S/WBQ-7-092505-C82
8021S/SGQ-7-100705-C82

Paradigm Analytical
GC3

8021S/WBC-7-092505-C81
8021S/SGC-7-100705-C81

Method: 8021/5030/5035 601/602/6230D/8021
Matrix: Soil Water

Initial Cal. Curve: water 09/25/05
(5035S 06/28/05) - (5030 10/14/04)
Batch: 101005

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	HALL	PID
022F0101.D	G161-2182-18A x1600	10/10/05 19:52	cid= 167923 x32	✓	✓	MJC	✓	✓
023F0101.D	G161-2182-18A x1600 ms	10/10/05 20:23	cid= 167923			MJC		
024F0101.D	G161-2182-18A x1600 msd	10/10/05 20:54	cid= 167923			MJC		
025F0101.D	qchk010	10/10/05 21:25				MJC		
026F0101.D	qchk010	10/10/05 21:56				MJC		
027F0101.D	lcs3101005b	10/10/05 22:26				MJC		
028F0101.D	b	10/10/05 22:57				MJC		
029F0101.D	vblk3101005b	10/10/05 23:28	✓	✓	✓	MJC	✓	✓
030F0101.D	g106-559-3a	10/10/05 23:59				MJC		
031F0101.D	g106-559-1a	10/11/05 0:30				MJC		
032F0101.D	g128-1611-1a	10/11/05 1:01				MJC		
033F0101.D	g520-127-1a	10/11/05 1:31				MJC		
034F0101.D	g520-127-2a	10/11/05 2:03				MJC		
035F0101.D	g520-127-3a	10/11/05 2:34				MJC		
036F0101.D	g520-127-3b dup	10/11/05 3:05				MJC		
037F0101.D	g520-127-4a	10/11/05 3:36				MJC		
038F0101.D	g443-224-2a	10/11/05 4:07				MJC		
039F0101.D	g443-224-3a	10/11/05 4:38				MJC		
040F0101.D	g443-225-1a	10/11/05 5:09				MJC		
041F0101.D	g443-224-1a x4	10/11/05 5:40				MJC		
042F0101.D	G443-224-1A x4 ms	10/11/05 6:10	cid= 168240			MJC		

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See Top for Standard Lot Numbers

PARADIGM ANALYTICAL LABORATORIES, INC

N.C. CERTIFICATION #481

8021S/WBQ-7-092505-C82
8021S/SGQ-7-100705-C82

Paradigm Analytical
GC3

8021S/WBC-7-092505-C81
8021S/SGC-7-100705-C81

Method: 8021/5030/5035 601/602/6230D/8021
Matrix: Soil Water

Initial Cal. Curve: water 09/25/05
(5035S 06/28/05) - (5030 10/14/04)
Batch: 101005

FILENAME	SAMPLE ID / DILUTION	DATE / TIME	COMMENTS	IS QC	SR QC	OPER	HALL	PID
001F0101.D	b	10/10/05 9:03				MJC		
002F0101.D	2ppbchk	10/10/05 9:34	✓	✓	✓	MJC	✓	✓
003F0101.D	qchk010	10/10/05 10:05				MJC		
004F0101.D	qchk010	10/10/05 10:36				MJC		
005F0101.D	lcs3101005a	10/10/05 11:07	✓	✓	✓	MJC	✓	✓
006F0101.D	b	10/10/05 11:37				MJC		
007F0101.D	vblk3101005a	10/10/05 12:09	✓	✓	✓	MJC	✓	✓
008F0101.D	g161-2180-6a	10/10/05 12:39				MJC		
009F0101.D	g161-2182-16a	10/10/05 13:10				MJC		
010F0101.D	g161-2183-6a	10/10/05 13:41				MJC		
011F0101.D	g158-249-2a	10/10/05 14:12				MJC		
012F0101.D	g204-490-4b	10/10/05 14:43				MJC		
013F0101.D	g204-490-5b	10/10/05 15:14				MJC		
014F0101.D	g161-2180-5a	10/10/05 15:45				MJC		
015F0101.D	g161-2182-14a	10/10/05 16:16				MJC		
016F0101.D	g161-2182-15a	10/10/05 16:47				MJC		
017F0101.D	g161-2183-5a	10/10/05 17:18				MJC		
018F0101.D	g161-2183-7a	10/10/05 17:49				MJC		
019F0101.D	g158-249-1a	10/10/05 18:20				MJC		
020F0101.D	g158-249-1b dup	10/10/05 18:51				MJC		
021F0101.D	G161-2182-13A x800	10/10/05 19:22	cid= 167780 x16 ✓			MJC		

Page Number: 2938

See Top for Standard Lot Numbers

PARADIGM ANALYTICAL LABORATORIES, INC.

N.C. CERTIFICATION #481

Volatiles Standard Notebook # 007 — GC Water and Soil — *CURVE*

	Refering Page	Description	Initial conc. (ppm)	Ammt. used(ul)	Final Vol. (ml)	Final Conc. (ppm)
Water BASE Mix:	7A- A29	Restek 502.2 MEGA mix lot A035666	2000	100	10	20
	7B-157	MTBE/DIPE stock 7- 092505	2000	100	10	20
Soil BASE Mix:	7A- A29	Restek 502.2 MEGA mix lot A035666	2000	25	10	5
	7B-157	MTBE/DIPE stock 7- 092505	2000	25	10	5
	Solvent:	Methanol LOT# CN639				

Ampule opened: 9-25-05
Prep date: ↓
Expiration date: 10-25-05

PAL lot number:
8021WBC-7-
8021SBC-7- 092505

	Refering Page	Description	Initial conc. (ppm)	Ammt. used(ul)	Final Vol. (ml)	Final Conc. (ppm)
Water GAS Mix:	7A- A31	Restek gases A036200	2000	100	10	20
Soil GAS Mix:	7A- "	Restek gases "	2000	25	10	5
	Solvent:	Methanol LOT# CN639				

Ampule opened: 9-25-05
Prep date: ↓
Expiration date: 10-2-05

PAL lot number:
8021WGC-7-
8021SGC-7- 092505

	Refering Page	Description	Initial conc. (ppm)	Ammt. used(ul)	Final Vol. (ml)	Final Conc. (ppm)
Water GAS Mix:	7A- A31	Restek gases A036200	2000	100	10	20
Soil GAS Mix:	7A- "	Restek gases "	2000	25	10	5
	Solvent:	Methanol LOT# CN6010				

Ampule opened: 10-3-05
Prep date: ↓
Expiration date: 10-10-05

PAL lot number:
8021WGC-7-
8021SGC-7- 100305

	Refering Page	Description	Initial conc. (ppm)	Ammt. used(ul)	Final Vol. (ml)	Final Conc. (ppm)
Water GAS Mix:	7A- 39	Restek gases A038872	2000	100	10	20
Soil GAS Mix:	7A- "	Restek gases "	2000	25	10	5
	Solvent:	Methanol LOT# CN6010				

Ampule opened: 10-7-05
Prep date: ↓
Expiration date: 10-14-05

PAL lot number:
8021WGC-7-
8021SGC-7- 100705

	Refering Page	Description	Initial conc. (ppm)	Ammt. used(ul)	Final Vol. (ml)	Final Conc. (ppm)
Water GAS Mix:	7A- 39	Restek gases A038872	2000	100	10	20
Soil GAS Mix:	7A- "	Restek gases "	2000	25	10	5
	Solvent:	Methanol LOT# CN6010				

Ampule opened: 10-16-05
Prep date: ↓
Expiration date: 10-23-05

PAL lot number:
8021WGC-7-
8021SGC-7- 101605

See reverse for any comments

page: C 81

PARADIGM ANALYTICAL LABORATORIES, INC
N.C. CERTIFICATION #481

Volatiles Standard Notebook # 007 — GC Water and Soil — QC

	Referring Page	Description	Initial conc. (ppm)	Ammt. Used (ul)	Final Vol. (ml)	Final Conc. (ppm)
Water BASE Mix:	7A-A30	Restek 502.2 MEGA mix lot A035667	2000	100	10	20
	7B-158	MTBE/DIPE stock 7- 092505	2000	100	10	20
Soil BASE Mix:	7A-30	Restek 502.2 MEGA mix lot A035667	2000	25	10	5
	7B-158	MTBE/DIPE stock 7- 092505	2000	25	10	5
	Solvent:	Methanol LOT# CN639				

Ampule opened: 9-25-05
Prep date: ↓
Expiration date: 10-25-05

PAL lot number:
8021WBQ-7-
8021SBQ-7- 092505

	Referring Page	Description	Initial conc. (ppm)	Ammt. Used (ul)	Final Vol. (ml)	Final Conc. (ppm)
Water GAS Mix:	7A- 32	Restek gases A036201	2000	100	10	20
Soil GAS Mix:	7A- "	Restek gases "	2000	25	10	5
	Solvent:	Methanol LOT# CN639				

Ampule opened: 9-25-05
Prep date: ↓
Expiration date: 10-2-05

PAL lot number:
8021WGQ-7-
8021SGQ-7- 092505

	Referring Page	Description	Initial conc. (ppm)	Ammt. Used (ul)	Final Vol. (ml)	Final Conc. (ppm)
Water GAS Mix:	7A- 32	Restek gases A036201	2000	100	10	20
Soil GAS Mix:	7A- "	Restek gases "	2000	25	10	5
	Solvent:	Methanol LOT# C0010				

Ampule opened: 10-3-05
Prep date: ↓
Expiration date: 10-10-05

PAL lot number:
8021WGQ-7-
8021SGQ-7- 100305

	Referring Page	Description	Initial conc. (ppm)	Ammt. Used (ul)	Final Vol. (ml)	Final Conc. (ppm)
Water GAS Mix:	7A- 40	Restek gases A038871	2000	100	10	20
Soil GAS Mix:	7A- "	Restek gases "	2000	25	10	5
	Solvent:	Methanol LOT# C0010				

Ampule opened: 10-7-05
Prep date: ↓
Expiration date: 10-14-05

PAL lot number:
8021WGQ-7-
8021SGQ-7- 100705

	Referring Page	Description	Initial conc. (ppm)	Ammt. Used (ul)	Final Vol. (ml)	Final Conc. (ppm)
Water GAS Mix:	7A- 40	Restek gases A038871	2000	100	10	20
Soil GAS Mix:	7A- "	Restek gases "	2000	25	10	5
	Solvent:	Methanol LOT# C0010				

Ampule opened: 10-16-05
Prep date: ↓
Expiration date: 10-23-05

PAL lot number:
8021WGQ-7-
8021SGQ-7- 101605

See reverse for any comments

page: C82

PARADIGM ANALYTICAL LABORATORIES, INC
N.C CERTIFICATION #481

WORTH PROPERTY
DATA VALIDATION PACKAGES

WOLTH PROPERTY CHECKLIST– October 2005 Sampling

Paradigm Report # Date Collected	Sample Identification(s)	
G161-2180 Collected October 4, 2005	WS-1-5	
	WS-2-5	
	Dup-1 (QC)	

Sample Team:	Jason Ricks (ECS Carolinas, LLP)
Sample Matrix:	Soil
Analyzing Laboratories:	Paradigm Analytical, Wilmington, North Carolina
Analyses:	Volatile Organics (VOC)/8260-5035; Semi-VOCs (SVOC)/8270-BN; Volatile Petroleum Hydrocarbons (VPH)/MDEP-VPH; and Extractable Petroleum Hydrocarbons (EPH)/MDEP-EPH
QA Reporting Levels:	All samples received a Level II Data Validation

ARCADIS G&M, Inc
4915 Prospectus Drive, Suite F
Durham, North Carolina 27713
Tel 919-544-4535
Fax 919-544-5690

Project: Wolth Property

SOIL

Project Number:
NC105012 0001 RN001

FIELD DATA PACKAGE DOCUMENTATION

The review of the field documents for the samples included in this SDG was conducted by the field quality assurance officer and is not presented in this data validation checklist.

The following Field QC samples were collected in association with these October 2005 soil samples.

One blind field duplicate was collected during this sampling event:

- Dup-1 is the blind field duplicate for primary sample WS-2-5.

A Trip Blank sample was not collected for analysis of VOCs/Method 8260.

ANALYTICAL DATA PACKAGE DOCUMENTATION
GENERAL INFORMATION

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample results		X		X	
2. Parameters analyzed		X		X	
3. Methods of analysis		X		X	
4. Reporting limits of analysis		X		X	
5. Master tracking list	X				X
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preparation/extraction date		X		X	
9. Sample analysis date		X		X	
10. Copy of chain-of-custody form signed by lab sample custodian		X		X	
11. Narrative summary of QA or sample problems provided		X		X	

QA - quality assurance

Comments:

1. Although additional data were provided by the laboratory, a Level II data validation was performed on these data packages. Any Tentatively Identified Compounds (TICs) reported were not evaluated as part of this validation. Twenty-five percent of the data for each parameter was validated, with the directive that if serious quality control deficiencies were encountered, that the remainder of the data would be validated. No such deficiencies were encountered.

   The Chain-of-Custody and data pages for each of the laboratory data packages included in this validation are attached. Any qualifiers assigned to this data are detailed in the following sections, and are clearly marked on these data pages.

VOLATILE ORGANIC COMPOUNDS

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Holding times		X		X	
2. Reporting limits		X		X	
3. Blanks					
A. Method blanks		X		X	
B. Equipment blanks	X				X
C. Field (rinseate) blanks	X				X
D. Trip blanks	X		X		
4. Matrix spike (MS) %R		X		X	
5. Matrix spike duplicate (MSD) %R		X		X	
6. MS/MSD precision (RPD)		X		X	
7. Laboratory Control Sample (LCS)		X		X	
8. Laboratory Control Sample Duplicate(LCSD)		X		X	
9. LCS/LCSD precision (RPD)		X		X	
10. Surrogate spike recoveries		X		X	
11. Field duplicate comparison		X		X	

VOCs - volatile organic compounds %R - percent recovery RPD - relative percent difference

Comments:
This section presents the review of USEPA Volatile Organics (VOC)/8260-5035 and Volatile Petroleum Hydrocarbons (VPH)/MDEP-VPH. Performance was acceptable, with the following exceptions and notes:

3A. The Method Blanks (MB) associated with each batch of samples did not detect any of the target compounds above the reporting limit.

3D. Whether or not a Trip Blank is required by the Sampling Plan, it is always recommended that a Trip Blank be transported with every cooler of samples slated for VOC analysis.

4-6. Batch samples were used for the MS/MSD analyses and were not evaluated for matrix interference with our samples.

7-9. The VOC LCS recovery for naphthalene was below the control limit. The result for this compound in all samples was qualified as estimated "J" if detected and "UJ" if nondetect.

10. The VPH surrogate recoveries were above the control limit in sample WS-1-5. The detected results in this sample were qualified as estimated "J."

11. The field duplicate sample criteria were met for VOCs for Dup-1, and its primary sample, WS-2-5.

SEMIVOLATILE ORGANIC COMPOUNDS

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Holding times					
A. Extraction holding time		X		X	
B. Analysis holding time		X		X	
2. Reporting limits		X		X	
3. Blanks					
A. Method Blanks		X		X	
C. Equipment Blanks	X				X
D. Field Blanks	X				X
4. Matrix spike (MS) %R		X		X	
5. Matrix spike duplicate (MSD) %R		X		X	
6. MS/MSD precision (RPD))		X		X	
7. Laboratory control sample (LCS)		X		X	
8. LCS duplicate (LCSD)	X				X
9. LCS/LCSD precision (RPD)	X				X
10. Surrogate spike recoveries		X		X	
11. Field duplicate comparison	X				X

SVOCs - semivolatile organic compounds %R - percent recovery RPD - relative percent difference

Comments:
This section includes review of Semi-VOCs (SVOC)/8270-BN and Extractable Petroleum Hydrocarbons (EPH)/MDEP-EPH. Performance was acceptable, with the following exceptions and notes. Note that the laboratory reported N-Nitrosodiphenylamine as the breakdown product diphenylamine.

2. Sample WS-1-5 was diluted 1:2 for EPH due to elevated concentrations of the target compounds.

3A. The Method Blanks (MB) associated with these samples did not detect any of the target compounds above the reporting limit.

4-6. Batch samples were used for the MS/MSD analyses and were not evaluated for matrix interference with our samples.

7. The SVOC LCS recoveries for the following compounds were above the control limit: acenaphthene, dibenzofuran, fluorene, 2-methylnaphthalene, naphthalene, and phnnthene. Any detected results for these compounds in all of the samples were qualified as estimated "J."

DATA VALIDATION CHECKLIST
SUMMARY AND DATA QUALIFIER CODES

Paradigm Report # Date Collected	**Sample Identification(s)**	
G161-2180 Collected October 4, 2005	WS-1-5	
	WS-2-5	
	Dup-1 (QC)	

Sample Team:	Jason Ricks (ECS Carolinas, LLP)
Sample Matrix:	Soil
Analyzing Laboratories:	Paradigm Analytical, Wilmington, North Carolina
Analyses:	Volatile Organics (VOC)/8260-5035; Semi-VOCs (SVOC)/8270-BN; Volatile Petroleum Hydrocarbons (VPH)/MDEP-VPH; and Extractable Petroleum Hydrocarbons (EPH)/MDEP-EPH.
QA Reporting Levels:	All samples received a Level II Data Validation.

Explanation/Notes:
Analytical data submitted in the above referenced Paradigm Analytical reports were reviewed and evaluated using the USEPA National Functional Guidelines (NFG) for the Review of Organic Data, dated October 1999, NFG for the Review of Inorganic Data, dated October 2004, the method specific criteria, and professional judgment where applicable. Data validation qualifiers that were assigned are presented in the attached data sheets. A detailed description of quality control (QC) deficiencies is included in the corresponding data section. All other data are classified as quantitative.

VALIDATION PERFORMED BY
SIGNATURE: _____

DATE: April 26, 2006

PARADIGM ANALYTICAL LABORATORIES, INC.
5500 Business Drive, Wilmington, NC 28405
Phone: (910)-350-1903 FAX: (910)-350-1557

Chain-of Custody Record & Analytical Request

COC# 50995

Page 1 **of** 1

Client: ECS Limited
Address: 6809 International Dr. Suite 103
Address: Greensboro, NC 27409
Quote #: 1242

Project ID: Wolfe Pigeity
Contact: Jason Ricks
Phone: 336-856-7150
Fax: 336-856-7160

Date: 10/5/05
Turnaround: Standard
Job Number: 6-9506
P.O. Number:

Report To: Jricks@ecslimited.com
Invoice To: ECS

Sample ID	Date	Time	Matrix	Preservatives: Sodium Bisulfate	Preservatives: methanol	Preservatives: HCL	Preservatives:	Analyses: Freon 5035	Analyses: 8270 BN	Analyses: MADEP EPH/VPH	Analyses:	Analyses: 6011/6002	Analyses: 8260 BN 625 BN TCLP	Analyses:	Analyses:	Analyses:	Analyses:	Comments: Please specify any special reporting requirements
WS-1-5	10/4/05	942	soil	✓	✓			✓	✓	✓								City of
WS-2-5	10/4/05	1003	soil	✓	✓			✓	✓	✓								Greensboro
WS-2-10	10/4/05	1005	soil	✓	✓			✓	✓	✓								
Dup-1	10/4/05		soil	✓	✓			✓										Project
WWS-1	10/5/05	952	water			✓				✓		✓	✓					
																		G161-2180

Relinquished By	Date	Time	Received By	Date	Time	Temperature
[signature]	10/5/05	1800	Fedex			
			[signature]	10/6/05	1030	3.3°C

State Certification Requested
NC (X) SC ____ Other ____

SEE REVERSE FOR TERMS AND CONDITIONS

ORIGINAL

PARADIGM ANALYTICAL LABORATORIES, INC

N.C. CERTIFICATION #481

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: WS-1-5
Client Project ID: Wolth Property
Lab Sample ID G161-2180-1A
Lab Project ID: G161-2180
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 10-04-2005 09:42
Date Received: 10/6/2005
Matrix: Soil
%Solids: 65.1

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	0.0644	1	10/13/2005
Benzene	BQL	0.00644	1	10/13/2005
Bromobenzene	BQL	0.00644	1	10/13/2005
Bromochloromethane	BQL	0.00644	1	10/13/2005
Bromodichloromethane	BQL	0.00644	1	10/13/2005
Bromoform	BQL	0.00644	1	10/13/2005
Bromomethane	BQL	0.00644	1	10/13/2005
2-Butanone	BQL	0.0322	1	10/13/2005
n-Butylbenzene	**0.0236**	0.00644	1	10/13/2005
sec-Butylbenzene	**0.0155**	0.00644	1	10/13/2005
tert-Butylbenzene	BQL	0.00644	1	10/13/2005
Carbon disulfide	BQL	0.00644	1	10/13/2005
Carbon tetrachloride	BQL	0.00644	1	10/13/2005
Chlorobenzene	BQL	0.00644	1	10/13/2005
Chloroethane	BQL	0.00644	1	10/13/2005
Chloroform	BQL	0.00644	1	10/13/2005
Chloromethane	BQL	0.00644	1	10/13/2005
2-Chlorotoluene	BQL	0.00644	1	10/13/2005
4-Chlorotoluene	BQL	0.00644	1	10/13/2005
Dibromochloromethane	BQL	0.00644	1	10/13/2005
1,2-Dibromo-3-chloropropane	BQL	0.00644	1	10/13/2005
Dibromomethane	BQL	0.00644	1	10/13/2005
1,2-Dibromoethane (EDB)	BQL	0.00644	1	10/13/2005
1,2-Dichlorobenzene	BQL	0.00644	1	10/13/2005
1,3-Dichlorobenzene	BQL	0.00644	1	10/13/2005
1,4-Dichlorobenzene	BQL	0.00644	1	10/13/2005
trans-1,4-Dichloro-2-butene	BQL	0.00644	1	10/13/2005
1,1-Dichloroethane	BQL	0.00644	1	10/13/2005
1,1-Dichloroethene	BQL	0.00644	1	10/13/2005
1,2-Dichloroethane	BQL	0.00644	1	10/13/2005
cis-1,2-Dichloroethene	BQL	0.00644	1	10/13/2005
trans-1,2-dichloroethene	BQL	0.00644	1	10/13/2005
1,2-Dichloropropane	BQL	0.00644	1	10/13/2005
1,3-Dichloropropane	BQL	0.00644	1	10/13/2005
2,2-Dichloropropane	BQL	0.00644	1	10/13/2005
1,1-Dichloropropene	BQL	0.00644	1	10/13/2005
cis-1,3-Dichloropropene	BQL	0.00644	1	10/13/2005
trans-1,3-Dichloropropene	BQL	0.00644	1	10/13/2005
Dichlorodifluoromethane	BQL	0.00644	1	10/13/2005
Diisopropyl ether (DIPE)	BQL	0.00644	1	10/13/2005
Ethylbenzene	BQL	0.00644	1	10/13/2005
Hexachlorobutadiene	BQL	0.00644	1	10/13/2005
2-Hexanone	BQL	0.00644	1	10/13/2005
Iodomethane	BQL	0.00644	1	10/13/2005

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: WS-1-5
Client Project ID: Wolth Property
Lab Sample ID G161-2180-1A
Lab Project ID: G161-2180
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 10-04-2005 09:42
Date Received: 10/6/2005
Matrix: Soil
%Solids: 65.1

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	0.00644	1	10/13/2005
4-Isopropyltoluene	BQL	0.00644	1	10/13/2005
Methylene chloride	BQL	0.0257	1	10/13/2005
4-Methyl-2-pentanone	BQL	0.00644	1	10/13/2005
Methyl-tert-butyl ether (MTBE)	BQL	0.00644	1	10/13/2005
Naphthalene	0.167	0.00644	1	10/13/2005
n-Propyl benzene	BQL	0.00644	1	10/13/2005
Styrene	BQL	0.00644	1	10/13/2005
1,1,1,2-Tetrachloroethane	BQL	0.00644	1	10/13/2005
1,1,2,2-Tetrachloroethane	BQL	0.00644	1	10/13/2005
Tetrachloroethene	BQL	0.00644	1	10/13/2005
Toluene	BQL	0.00644	1	10/13/2005
1,2,3-Trichlorobenzene	BQL	0.00644	1	10/13/2005
1,2,4-Trichlorobenzene	BQL	0.00644	1	10/13/2005
Trichloroethene	BQL	0.00644	1	10/13/2005
1,1,1-Trichloroethane	BQL	0.00644	1	10/13/2005
1,1,2-Trichloroethane	BQL	0.00644	1	10/13/2005
Trichlorofluoromethane	BQL	0.00644	1	10/13/2005
1,2,3-Trichloropropane	BQL	0.00644	1	10/13/2005
1,2,4-Trimethylbenzene	BQL	0.00644	1	10/13/2005
1,3,5-Trimethylbenzene	BQL	0.00644	1	10/13/2005
Vinyl chloride	BQL	0.00644	1	10/13/2005
m-,p-Xylene	BQL	0.0129	1	10/13/2005
o-Xylene	BQL	0.00644	1	10/13/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.05	0.055	110
1,2-Dichloroethane-d4	0.05	0.0544	109
Toluene-d8	0.05	0.0549	110

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By:

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: WS-2-5
Client Project ID: Wolth Property
Lab Sample ID G161-2180-2A
Lab Project ID: G161-2180
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 10-04-2005 10:03
Date Received: 10/6/2005
Matrix: Soil
%Solids: 87.1

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	0.0423	1	10/13/2005
Benzene	BQL	0.00423	1	10/13/2005
Bromobenzene	BQL	0.00423	1	10/13/2005
Bromochloromethane	BQL	0.00423	1	10/13/2005
Bromodichloromethane	BQL	0.00423	1	10/13/2005
Bromoform	BQL	0.00423	1	10/13/2005
Bromomethane	BQL	0.00423	1	10/13/2005
2-Butanone	BQL	0.0212	1	10/13/2005
n-Butylbenzene	BQL	0.00423	1	10/13/2005
sec-Butylbenzene	BQL	0.00423	1	10/13/2005
tert-Butylbenzene	BQL	0.00423	1	10/13/2005
Carbon disulfide	BQL	0.00423	1	10/13/2005
Carbon tetrachloride	BQL	0.00423	1	10/13/2005
Chlorobenzene	BQL	0.00423	1	10/13/2005
Chloroethane	BQL	0.00423	1	10/13/2005
Chloroform	BQL	0.00423	1	10/13/2005
Chloromethane	BQL	0.00423	1	10/13/2005
2-Chlorotoluene	BQL	0.00423	1	10/13/2005
4-Chlorotoluene	BQL	0.00423	1	10/13/2005
Dibromochloromethane	BQL	0.00423	1	10/13/2005
1,2-Dibromo-3-chloropropane	BQL	0.00423	1	10/13/2005
Dibromomethane	BQL	0.00423	1	10/13/2005
1,2-Dibromoethane (EDB)	BQL	0.00423	1	10/13/2005
1,2-Dichlorobenzene	BQL	0.00423	1	10/13/2005
1,3-Dichlorobenzene	BQL	0.00423	1	10/13/2005
1,4-Dichlorobenzene	BQL	0.00423	1	10/13/2005
trans-1,4-Dichloro-2-butene	BQL	0.00423	1	10/13/2005
1,1-Dichloroethane	BQL	0.00423	1	10/13/2005
1,1-Dichloroethene	BQL	0.00423	1	10/13/2005
1,2-Dichloroethane	BQL	0.00423	1	10/13/2005
cis-1,2-Dichloroethene	BQL	0.00423	1	10/13/2005
trans-1,2-dichloroethene	BQL	0.00423	1	10/13/2005
1,2-Dichloropropane	BQL	0.00423	1	10/13/2005
1,3-Dichloropropane	BQL	0.00423	1	10/13/2005
2,2-Dichloropropane	BQL	0.00423	1	10/13/2005
1,1-Dichloropropene	BQL	0.00423	1	10/13/2005
cis-1,3-Dichloropropene	BQL	0.00423	1	10/13/2005
trans-1,3-Dichloropropene	BQL	0.00423	1	10/13/2005
Dichlorodifluoromethane	BQL	0.00423	1	10/13/2005
Diisopropyl ether (DIPE)	BQL	0.00423	1	10/13/2005
Ethylbenzene	BQL	0.00423	1	10/13/2005
Hexachlorobutadiene	BQL	0.00423	1	10/13/2005
2-Hexanone	BQL	0.00423	1	10/13/2005
Iodomethane	BQL	0.00423	1	10/13/2005

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: WS-2-5
Client Project ID: Wolth Property
Lab Sample ID G161-2180-2A
Lab Project ID: G161-2180
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 10-04-2005 10:03
Date Received: 10/6/2005
Matrix: Soil
%Solids: 87.1

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	0.00423	1	10/13/2005
4-Isopropyltoluene	BQL	0.00423	1	10/13/2005
Methylene chloride	BQL	0.0169	1	10/13/2005
4-Methyl-2-pentanone	BQL	0.00423	1	10/13/2005
Methyl-tert-butyl ether (MTBE)	BQL	0.00423	1	10/13/2005
Naphthalene	BQL - UJ	0.00423	1	10/13/2005
n-Propyl benzene	BQL	0.00423	1	10/13/2005
Styrene	BQL	0.00423	1	10/13/2005
1,1,1,2-Tetrachloroethane	BQL	0.00423	1	10/13/2005
1,1,2,2-Tetrachloroethane	BQL	0.00423	1	10/13/2005
Tetrachloroethene	BQL	0.00423	1	10/13/2005
Toluene	BQL	0.00423	1	10/13/2005
1,2,3-Trichlorobenzene	BQL	0.00423	1	10/13/2005
1,2,4-Trichlorobenzene	BQL	0.00423	1	10/13/2005
Trichloroethene	BQL	0.00423	1	10/13/2005
1,1,1-Trichloroethane	BQL	0.00423	1	10/13/2005
1,1,2-Trichloroethane	BQL	0.00423	1	10/13/2005
Trichlorofluoromethane	BQL	0.00423	1	10/13/2005
1,2,3-Trichloropropane	BQL	0.00423	1	10/13/2005
1,2,4-Trimethylbenzene	BQL	0.00423	1	10/13/2005
1,3,5-Trimethylbenzene	BQL	0.00423	1	10/13/2005
Vinyl chloride	BQL	0.00423	1	10/13/2005
m-,p-Xylene	BQL	0.00847	1	10/13/2005
o-Xylene	BQL	0.00423	1	10/13/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.05	0.0514	103
1,2-Dichloroethane-d4	0.05	0.0716	143
Toluene-d8	0.05	0.0508	102

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: [signature]

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: Dup-1
Client Project ID: Wolth Property
Lab Sample ID G161-2180-4A
Lab Project ID: G161-2180
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 10-04-2005 00:00
Date Received: 10/6/2005
Matrix: Soil
%Solids: 87.1

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Acetone	BQL	0.0379	1	10/13/2005
Benzene	BQL	0.00379	1	10/13/2005
Bromobenzene	BQL	0.00379	1	10/13/2005
Bromochloromethane	BQL	0.00379	1	10/13/2005
Bromodichloromethane	BQL	0.00379	1	10/13/2005
Bromoform	BQL	0.00379	1	10/13/2005
Bromomethane	BQL	0.00379	1	10/13/2005
2-Butanone	BQL	0.0190	1	10/13/2005
n-Butylbenzene	BQL	0.00379	1	10/13/2005
sec-Butylbenzene	BQL	0.00379	1	10/13/2005
tert-Butylbenzene	BQL	0.00379	1	10/13/2005
Carbon disulfide	BQL	0.00379	1	10/13/2005
Carbon tetrachloride	BQL	0.00379	1	10/13/2005
Chlorobenzene	BQL	0.00379	1	10/13/2005
Chloroethane	BQL	0.00379	1	10/13/2005
Chloroform	BQL	0.00379	1	10/13/2005
Chloromethane	BQL	0.00379	1	10/13/2005
2-Chlorotoluene	BQL	0.00379	1	10/13/2005
4-Chlorotoluene	BQL	0.00379	1	10/13/2005
Dibromochloromethane	BQL	0.00379	1	10/13/2005
1,2-Dibromo-3-chloropropane	BQL	0.00379	1	10/13/2005
Dibromomethane	BQL	0.00379	1	10/13/2005
1,2-Dibromoethane (EDB)	BQL	0.00379	1	10/13/2005
1,2-Dichlorobenzene	BQL	0.00379	1	10/13/2005
1,3-Dichlorobenzene	BQL	0.00379	1	10/13/2005
1,4-Dichlorobenzene	BQL	0.00379	1	10/13/2005
trans-1,4-Dichloro-2-butene	BQL	0.00379	1	10/13/2005
1,1-Dichloroethane	BQL	0.00379	1	10/13/2005
1,1-Dichloroethene	BQL	0.00379	1	10/13/2005
1,2-Dichloroethane	BQL	0.00379	1	10/13/2005
cis-1,2-Dichloroethene	BQL	0.00379	1	10/13/2005
trans-1,2-dichloroethene	BQL	0.00379	1	10/13/2005
1,2-Dichloropropane	BQL	0.00379	1	10/13/2005
1,3-Dichloropropane	BQL	0.00379	1	10/13/2005
2,2-Dichloropropane	BQL	0.00379	1	10/13/2005
1,1-Dichloropropene	BQL	0.00379	1	10/13/2005
cis-1,3-Dichloropropene	BQL	0.00379	1	10/13/2005
trans-1,3-Dichloropropene	BQL	0.00379	1	10/13/2005
Dichlorodifluoromethane	BQL	0.00379	1	10/13/2005
Diisopropyl ether (DIPE)	BQL	0.00379	1	10/13/2005
Ethylbenzene	BQL	0.00379	1	10/13/2005
Hexachlorobutadiene	BQL	0.00379	1	10/13/2005
2-Hexanone	BQL	0.00379	1	10/13/2005
Iodomethane	BQL	0.00379	1	10/13/2005

Results for Volatiles
by GCMS 8260-5035

Client Sample ID: Dup-1
Client Project ID: Wolth Property
Lab Sample ID G161-2180-4A
Lab Project ID: G161-2180
Report Basis: Dry Weight

Analyzed By: JTF
Date Collected: 10-04-2005 00:00
Date Received: 10/6/2005
Matrix: Soil
%Solids: 87.1

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	Dilution Factor	Date Analyzed
Isopropylbenzene	BQL	0.00379	1	10/13/2005
4-Isopropyltoluene	BQL	0.00379	1	10/13/2005
Methylene chloride	BQL	0.0152	1	10/13/2005
4-Methyl-2-pentanone	BQL	0.00379	1	10/13/2005
Methyl-tert-butyl ether (MTBE)	BQL	0.00379	1	10/13/2005
Naphthalene	BQL-VJ	0.00379	1	10/13/2005
n-Propyl benzene	BQL	0.00379	1	10/13/2005
Styrene	BQL	0.00379	1	10/13/2005
1,1,1,2-Tetrachloroethane	BQL	0.00379	1	10/13/2005
1,1,2,2-Tetrachloroethane	BQL	0.00379	1	10/13/2005
Tetrachloroethene	BQL	0.00379	1	10/13/2005
Toluene	BQL	0.00379	1	10/13/2005
1,2,3-Trichlorobenzene	BQL	0.00379	1	10/13/2005
1,2,4-Trichlorobenzene	BQL	0.00379	1	10/13/2005
Trichloroethene	BQL	0.00379	1	10/13/2005
1,1,1-Trichloroethane	BQL	0.00379	1	10/13/2005
1,1,2-Trichloroethane	BQL	0.00379	1	10/13/2005
Trichlorofluoromethane	BQL	0.00379	1	10/13/2005
1,2,3-Trichloropropane	BQL	0.00379	1	10/13/2005
1,2,4-Trimethylbenzene	BQL	0.00379	1	10/13/2005
1,3,5-Trimethylbenzene	BQL	0.00379	1	10/13/2005
Vinyl chloride	BQL	0.00379	1	10/13/2005
m-,p-Xylene	BQL	0.00758	1	10/13/2005
o-Xylene	BQL	0.00379	1	10/13/2005

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	0.05	0.0507	101
1,2-Dichloroethane-d4	0.05	0.0721	144
Toluene-d8	0.05	0.05	100

Comments:

Flags:
BQL = Below Quantitation Limits.

Reviewed By: ____

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: WS-1-5
Client Project ID: Wolth Property
Lab Sample ID: G161-2180-1H
Lab Project ID: G161-2180
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 10/4/2005 9:42
Date Received: 10/6/2005
Date Extracted: 10/7/2005
Matrix: Soil
% Solids: 65.07

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
Acenaphthene	1.34 – J	0.475	1	10/10/2005
Acenaphthylene	BQL	0.475	1	10/10/2005
Anthracene	BQL	0.475	1	10/10/2005
Benzo[a]anthracene	BQL	0.475	1	10/10/2005
Benzo[a]pyrene	BQL	0.475	1	10/10/2005
Benzo[b]fluoranthene	BQL	0.475	1	10/10/2005
Benzo[g,h,i]perylene	BQL	0.475	1	10/10/2005
Benzo[k]fluoranthene	BQL	0.475	1	10/10/2005
Bis(2-chloroethoxy)methane	BQL	0.475	1	10/10/2005
Bis(2-chloroethyl)ether	BQL	0.475	1	10/10/2005
Bis(2-chloroisopropyl)ether	BQL	0.475	1	10/10/2005
Bis(2-ethylhexyl)phthalate	BQL	0.475	1	10/10/2005
4-bromophenyl phenyl ether	BQL	0.475	1	10/10/2005
Butylbenzylphthalate	BQL	0.475	1	10/10/2005
2-Chloronaphthalene	BQL	0.475	1	10/10/2005
4-Chloroaniline	BQL	2.38	1	10/10/2005
4-Chlorophenyl phenyl ether	BQL	0.475	1	10/10/2005
Chrysene	BQL	0.475	1	10/10/2005
Dibenzo[a,h]anthracene	BQL	0.475	1	10/10/2005
Dibenzofuran	1.05 – J	0.475	1	10/10/2005
Di-n-Butylphthalate	BQL	0.475	1	10/10/2005
1,2-Dichlorobenzene	BQL	0.475	1	10/10/2005
1,3-Dichlorobenzene	BQL	0.475	1	10/10/2005
1,4-Dichlorobenzene	BQL	0.475	1	10/10/2005
3,3'-Dichlorobenzidine	BQL	0.950	1	10/10/2005
Diethylphthalate	BQL	0.475	1	10/10/2005
Dimethylphthalate	BQL	0.475	1	10/10/2005
Di-n-octylphthalate	BQL	0.475	1	10/10/2005
2,4-Dinitrotoluene	BQL	0.475	1	10/10/2005
2,6-Dinitrotoluene	BQL	0.475	1	10/10/2005
Diphenylamine *	BQL	0.475	1	10/10/2005
Fluoranthene	BQL	0.475	1	10/10/2005
Fluorene	2.01 – J	0.475	1	10/10/2005
Hexachlorobenzene	BQL	0.475	1	10/10/2005
Hexachlorobutadiene	BQL	0.475	1	10/10/2005
Hexachlorocyclopentadiene	BQL	0.950	1	10/10/2005
Hexachloroethane	BQL	0.475	1	10/10/2005
Indeno(1,2,3-c,d)pyrene	BQL	0.475	1	10/10/2005
Isophorone	BQL	0.475	1	10/10/2005
2-Methylnaphthalene	11.5 – J	0.475	1	10/10/2005
Naphthalene	1.27 – J	0.475	1	10/10/2005
2-Nitroaniline	BQL	0.475	1	10/10/2005

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: WS-1-5
Client Project ID: Wolth Property
Lab Sample ID: G161-2180-1H
Lab Project ID: G161-2180
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 10/4/2005 9:42
Date Received: 10/6/2005
Date Extracted: 10/7/2005
Matrix: Soil
% Solids: 65.07

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
3-Nitroaniline	BQL	2.38	1	10/10/2005
4-Nitroaniline	BQL	2.38	1	10/10/2005
Nitrobenzene	BQL	0.475	1	10/10/2005
N-Nitrosodi-n-propylamine	BQL	0.475	1	10/10/2005
Phenanthrene	7.28 – J	0.475	1	10/10/2005
Pyrene	BQL	0.475	1	10/10/2005
1,2,4-Trichlorobenzene	BQL	0.475	1	10/10/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	10.2	102
Nitrobenzene-d5	10	10.9	109
4-Terphenyl-d14	10	10.3	103

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By: [signature]

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: WS-2-5
Client Project ID: Wolth Property
Lab Sample ID: G161-2180-2H
Lab Project ID: G161-2180
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 10/4/2005 10:03
Date Received: 10/6/2005
Date Extracted: 10/7/2005
Matrix: Soil
% Solids: 87.1

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
Acenaphthene	BQL	0.358	1	10/10/2005
Acenaphthylene	BQL	0.358	1	10/10/2005
Anthracene	BQL	0.358	1	10/10/2005
Benzo[a]anthracene	BQL	0.358	1	10/10/2005
Benzo[a]pyrene	BQL	0.358	1	10/10/2005
Benzo[b]fluoranthene	BQL	0.358	1	10/10/2005
Benzo[g,h,i]perylene	BQL	0.358	1	10/10/2005
Benzo[k]fluoranthene	BQL	0.358	1	10/10/2005
Bis(2-chloroethoxy)methane	BQL	0.358	1	10/10/2005
Bis(2-chloroethyl)ether	BQL	0.358	1	10/10/2005
Bis(2-chloroisopropyl)ether	BQL	0.358	1	10/10/2005
Bis(2-ethylhexyl)phthalate	BQL	0.358	1	10/10/2005
4-bromophenyl phenyl ether	BQL	0.358	1	10/10/2005
Butylbenzylphthalate	BQL	0.358	1	10/10/2005
2-Chloronaphthalene	BQL	0.358	1	10/10/2005
4-Chloroaniline	BQL	1.79	1	10/10/2005
4-Chlorophenyl phenyl ether	BQL	0.358	1	10/10/2005
Chrysene	BQL	0.358	1	10/10/2005
Dibenzo[a,h]anthracene	BQL	0.358	1	10/10/2005
Dibenzofuran	BQL	0.358	1	10/10/2005
Di-n-Butylphthalate	BQL	0.358	1	10/10/2005
1,2-Dichlorobenzene	BQL	0.358	1	10/10/2005
1,3-Dichlorobenzene	BQL	0.358	1	10/10/2005
1,4-Dichlorobenzene	BQL	0.358	1	10/10/2005
3,3'-Dichlorobenzidine	BQL	0.716	1	10/10/2005
Diethylphthalate	BQL	0.358	1	10/10/2005
Dimethylphthalate	BQL	0.358	1	10/10/2005
Di-n-octylphthalate	BQL	0.358	1	10/10/2005
2,4-Dinitrotoluene	BQL	0.358	1	10/10/2005
2,6-Dinitrotoluene	BQL	0.358	1	10/10/2005
Diphenylamine *	BQL	0.358	1	10/10/2005
Fluoranthene	BQL	0.358	1	10/10/2005
Fluorene	BQL	0.358	1	10/10/2005
Hexachlorobenzene	BQL	0.358	1	10/10/2005
Hexachlorobutadiene	BQL	0.358	1	10/10/2005
Hexachlorocyclopentadiene	BQL	0.716	1	10/10/2005
Hexachloroethane	BQL	0.358	1	10/10/2005
Indeno(1,2,3-c,d)pyrene	BQL	0.358	1	10/10/2005
Isophorone	BQL	0.358	1	10/10/2005
2-Methylnaphthalene	BQL	0.358	1	10/10/2005
Naphthalene	BQL	0.358	1	10/10/2005
2-Nitroaniline	BQL	0.358	1	10/10/2005

Results for Semivolatiles
by GCMS 8270-BN

Client Sample ID: WS-2-5
Client Project ID: Wolth Property
Lab Sample ID: G161-2180-2H
Lab Project ID: G161-2180
Report Basis: Dry weight

Analyzed By: MRC
Date Collected: 10/4/2005 10:03
Date Received: 10/6/2005
Date Extracted: 10/7/2005
Matrix: Soil
% Solids: 87.1

Compound	Result mg/Kg	Quantitation Limit mg/Kg	Dilution Factor	Date Analyzed
3-Nitroaniline	BQL	1.79	1	10/10/2005
4-Nitroaniline	BQL	1.79	1	10/10/2005
Nitrobenzene	BQL	0.358	1	10/10/2005
N-Nitrosodi-n-propylamine	BQL	0.358	1	10/10/2005
Phenanthrene	BQL	0.358	1	10/10/2005
Pyrene	BQL	0.358	1	10/10/2005
1,2,4-Trichlorobenzene	BQL	0.358	1	10/10/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	10	100
Nitrobenzene-d5	10	10	100
4-Terphenyl-d14	10	11.2	112

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

Reviewed By:

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: ECS

Project Name: Wolth Property

Sample Information and Analytical Results	
Sample Identification	WS-1-5
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	10/04/05
Date Received	10/06/05
Date Extracted	10/04/05
Date Analyzed	10/11/05
Dry Weight	65
Dilution Factor	1
C_5-C_8 Aliphatics**	< 10 (mg/Kg)
C_9-C_{12} Aliphatics**	61 (mg/Kg) — J
C_9-C_{10} Aromatics**	81 (mg/Kg) — J
Surrogate % Recovery - PID	230***
Surrogate % Recovery - FID	210***

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

***= High surrogate recovery due to matrix interference

Lab Info: g161-2180-1d

Reviewed By:

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: ECS

Project Name: Wolth Property

Sample Information and Analytical Results	
Sample Identification	WS-1-5
Sample Matrix	Soil
Date Collected	10/04/05
Date Received	10/06/05
Date Extracted	10/07/05
Date Analyzed	10/17/05
Dry Weight	65.1
Dilution Factor	2:1
C_9-C_{18} Aliphatics*	2200 (mg/Kg)
C_{19}-C_{36} Aliphatics*	160 (mg/Kg)
C_{11}-C_{22} Aromatics*	620 (mg/Kg)
Aliphatic Surrogate % Recovery	100
Aromatic Surrogate % Recovery	72
Fractionation Surrogate 1 % Recovery	47

Comments:

* = Excludes any surrogates or internal standards

Lab info: G161-2180-1I

Reviewed By: [illegible]