



McC Campbell Analytical, Inc.

*"When Quality Counts"*

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# TO15 Level IV Data Package



CLIENT: Environ  
Client Sample ID: E-SG-8-031313  
Project: #21-32100GA-G01; Nert Soil Gas  
Collection Date: 3/13/2013 9:50:00 AM

Work Order: 1303408  
Lab ID: 1303408-002A  
Batch ID: 75598  
Matrix: AIR

Low-Level Volatile Organic Compounds in µg/m³

Extraction Method: TO15

Analytical Method: TO15

Table with 10 columns: CAS#, Analytes, Result, Qual, MDL, RL Units, DF, Instrument, Date Analyzed. Contains 45 rows of chemical analysis data.

Qualifiers: ND - Not Detected at the Method Detection Limit S - Spike Recovery outside accepted recovery limits  
J - Analyte detected below Reporting Limit R - RPD outside accepted recovery limits  
B - Analyte detected in the associated Method Blank E - Value above quantitation range  
\* - Value exceeds Maximum Contaminant Level H - Samples were analyzed out of holding time



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Matrix: AIR

Low-Level Volatile Organic Compounds in µg/m³

Extraction Method: TO15

Analytical Method: TO15

CAS#	Analytes	Result	Qual	MDL	RL Units	DF	Instrument	Date Analyzed
637-92-3	Ethyl tert-butyl ether (ETBE)	ND		0.084	0.84 µg/m³	1	GC24	3/15/13 11:12 PM
100-41-4	Ethylbenzene	0.79	J	0.062	0.88 µg/m³	1	GC24	3/15/13 11:12 PM
622-96-8	4-Ethyltoluene	1.2		1.0	1.0 µg/m³	1	GC24	3/15/13 11:12 PM
76-13-1	Freon 113	ND		1.6	1.6 µg/m³	1	GC24	3/15/13 11:12 PM
142-82-5	Heptane	ND		0.074	84 µg/m³	1	GC24	3/15/13 11:12 PM
87-68-3	Hexachlorobutadiene	ND		0.14	2.2 µg/m³	1	GC24	3/15/13 11:12 PM
110-54-3	Hexane	0.95	J	0.72	72 µg/m³	1	GC24	3/15/13 11:12 PM
591-78-6	2-Hexanone	ND		0.22	84 µg/m³	1	GC24	3/15/13 11:12 PM
108-10-1	4-Methyl-2-pentanone (MIBK)	1.9		0.052	0.84 µg/m³	1	GC24	3/15/13 11:12 PM
1634-04-4	Methyl-t-butyl ether (MTBE)	ND		0.096	0.74 µg/m³	1	GC24	3/15/13 11:12 PM
75-09-2	Methylene chloride	ND		0.078	0.70 µg/m³	1	GC24	3/15/13 11:12 PM
91-20-3	Naphthalene	0.89		0.42	0.52 µg/m³	1	GC24	3/15/13 11:12 PM
100-42-5	Styrene	ND		0.050	0.86 µg/m³	1	GC24	3/15/13 11:12 PM
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.15	0.34 µg/m³	1	GC24	3/15/13 11:12 PM
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.072	0.34 µg/m³	1	GC24	3/15/13 11:12 PM
127-18-4	Tetrachloroethene	2.5		0.34	0.34 µg/m³	1	GC24	3/15/13 11:12 PM
109-99-9	Tetrahydrofuran	ND		1.2	1.2 µg/m³	1	GC24	3/15/13 11:12 PM
108-88-3	Toluene	0.77		0.084	0.76 µg/m³	1	GC24	3/15/13 11:12 PM
120-82-1	1,2,4-Trichlorobenzene	ND		0.22	1.5 µg/m³	1	GC24	3/15/13 11:12 PM
71-55-6	1,1,1-Trichloroethane	ND		0.092	1.1 µg/m³	1	GC24	3/15/13 11:12 PM
79-00-5	1,1,2-Trichloroethane	ND		0.10	0.28 µg/m³	1	GC24	3/15/13 11:12 PM
79-01-6	Trichloroethene	130		0.12	1.1 µg/m³	1	GC24	3/15/13 11:12 PM
75-69-4	Trichlorofluoromethane	1.3		1.1	1.1 µg/m³	1	GC24	3/15/13 11:12 PM
95-63-6	1,2,4-Trimethylbenzene	2.5		0.11	1.0 µg/m³	1	GC24	3/15/13 11:12 PM
108-67-8	1,3,5-Trimethylbenzene	0.67	J	0.15	1.0 µg/m³	1	GC24	3/15/13 11:12 PM
108-05-4	Vinyl Acetate	3.0	J	0.10	72 µg/m³	1	GC24	3/15/13 11:12 PM
75-01-4	Vinyl Chloride	ND		0.12	0.12 µg/m³	1	GC24	3/15/13 11:12 PM
1330-20-7	Xylenes, Total	4.3		2.6	2.6 µg/m³	1	GC24	3/15/13 11:12 PM

Surrogate Recovery

17060-07-0	1,2-DCA-d4	98		0	70-130 %REC	1	GC24	3/15/13 11:12 PM
2037-26-5	toluene-d8(surr) (A)	92		0	70-130 %REC	1	GC24	3/15/13 11:12 PM
460-00-4	4-BFB (surr)	87		0	70-130 %REC	1	GC24	3/15/13 11:12 PM

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Batch ID: 75598  
Matrix: AIR

Low-Level Volatile Organic Compounds in µg/m³

Extraction Method: TO15

Analytical Method: TO15

CAS#	Analytes	Result	Qual	MDL	RL Units	DF	Instrument	Date Analyzed
67-64-1	Acetone	25		0.48	24 µg/m³	1	GC24	3/16/13 12:10 AM
107-13-1	Acrylonitrile	ND		0.10	0.44 µg/m³	1	GC24	3/16/13 12:10 AM
994-05-8	tert-Amyl methyl ether (TAME)	ND		0.076	0.84 µg/m³	1	GC24	3/16/13 12:10 AM
71-43-2	Benzene	2.4		0.046	0.16 µg/m³	1	GC24	3/16/13 12:10 AM
100-44-7	Benzyl chloride	ND		0.068	1.1 µg/m³	1	GC24	3/16/13 12:10 AM
75-27-4	Bromodichloromethane	1.3		0.10	0.36 µg/m³	1	GC24	3/16/13 12:10 AM
75-25-2	Bromoform	ND		2.2	2.2 µg/m³	1	GC24	3/16/13 12:10 AM
74-83-9	Bromomethane	ND		0.20	0.78 µg/m³	1	GC24	3/16/13 12:10 AM
106-99-0	1,3-Butadiene	ND		0.28	0.44 µg/m³	1	GC24	3/16/13 12:10 AM
78-93-3	2-Butanone (MEK)	4.9	J	0.032	60 µg/m³	1	GC24	3/16/13 12:10 AM
75-65-0	t-Butyl alcohol (TBA)	2.8	J	0.17	12 µg/m³	1	GC24	3/16/13 12:10 AM
75-15-0	Carbon Disulfide	ND		0.042	0.64 µg/m³	1	GC24	3/16/13 12:10 AM
56-23-5	Carbon Tetrachloride	110		0.068	0.32 µg/m³	1	GC24	3/16/13 12:10 AM
108-90-7	Chlorobenzene	ND		0.070	0.94 µg/m³	1	GC24	3/16/13 12:10 AM
75-00-3	Chloroethane	ND		0.076	0.54 µg/m³	1	GC24	3/16/13 12:10 AM
67-66-3	Chloroform	2800		3.6	12 µg/m³	50	GC24	3/18/13 11:24 AM
74-87-3	Chloromethane	ND		0.022	0.42 µg/m³	1	GC24	3/16/13 12:10 AM
110-82-7	Cyclohexane	ND		0.18	70 µg/m³	1	GC24	3/16/13 12:10 AM
124-48-1	Dibromochloromethane	ND		0.11	1.7 µg/m³	1	GC24	3/16/13 12:10 AM
96-12-8	1,2-Dibromo-3-chloropropane	ND		0.20	0.50 µg/m³	1	GC24	3/16/13 12:10 AM
106-93-4	1,2-Dibromoethane (EDB)	ND		0.096	0.40 µg/m³	1	GC24	3/16/13 12:10 AM
95-50-1	1,2-Dichlorobenzene	ND		0.15	1.2 µg/m³	1	GC24	3/16/13 12:10 AM
541-73-1	1,3-Dichlorobenzene	ND		0.10	1.2 µg/m³	1	GC24	3/16/13 12:10 AM
106-46-7	1,4-Dichlorobenzene	ND		0.18	0.30 µg/m³	1	GC24	3/16/13 12:10 AM
75-71-8	Dichlorodifluoromethane	2.2		0.096	1.0 µg/m³	1	GC24	3/16/13 12:10 AM
75-34-3	1,1-Dichloroethane	1.0		0.82	0.82 µg/m³	1	GC24	3/16/13 12:10 AM
107-06-2	1,2-Dichloroethane (1,2-DCA)	ND		0.090	0.20 µg/m³	1	GC24	3/16/13 12:10 AM
75-35-4	1,1-Dichloroethene	ND		0.040	0.20 µg/m³	1	GC24	3/16/13 12:10 AM
156-59-2	cis-1,2-Dichloroethene	ND		0.068	0.80 µg/m³	1	GC24	3/16/13 12:10 AM
156-60-5	trans-1,2-Dichloroethene	ND		0.064	0.80 µg/m³	1	GC24	3/16/13 12:10 AM
78-87-5	1,2-Dichloropropane	ND		0.11	0.24 µg/m³	1	GC24	3/16/13 12:10 AM
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	0.24 µg/m³	1	GC24	3/16/13 12:10 AM
10061-02-6	trans-1,3-Dichloropropene	ND		0.24	0.24 µg/m³	1	GC24	3/16/13 12:10 AM
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.16	1.4 µg/m³	1	GC24	3/16/13 12:10 AM
108-20-3	Diisopropyl ether (DIPE)	ND		0.058	0.84 µg/m³	1	GC24	3/16/13 12:10 AM
123-91-1	1,4-Dioxane	ND		0.096	0.74 µg/m³	1	GC24	3/16/13 12:10 AM
141-78-6	Ethyl acetate	2.2		0.096	1.8 µg/m³	1	GC24	3/16/13 12:10 AM

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637-92-3	Ethyl tert-butyl ether (ETBE)	ND		0.084	0.84 µg/m³	1	GC24	3/16/13 12:10 AM
100-41-4	Ethylbenzene	4.4		0.062	0.88 µg/m³	1	GC24	3/16/13 12:10 AM
622-96-8	4-Ethyltoluene	3.1		1.0	1.0 µg/m³	1	GC24	3/16/13 12:10 AM
76-13-1	Freon 113	ND		1.6	1.6 µg/m³	1	GC24	3/16/13 12:10 AM
142-82-5	Heptane	1.3	J	0.074	84 µg/m³	1	GC24	3/16/13 12:10 AM
87-68-3	Hexachlorobutadiene	ND		0.14	2.2 µg/m³	1	GC24	3/16/13 12:10 AM
110-54-3	Hexane	1.7	J	0.72	72 µg/m³	1	GC24	3/16/13 12:10 AM
591-78-6	2-Hexanone	ND		0.22	84 µg/m³	1	GC24	3/16/13 12:10 AM
108-10-1	4-Methyl-2-pentanone (MIBK)	1.2		0.052	0.84 µg/m³	1	GC24	3/16/13 12:10 AM
1634-04-4	Methyl-t-butyl ether (MTBE)	ND		0.096	0.74 µg/m³	1	GC24	3/16/13 12:10 AM
75-09-2	Methylene chloride	ND		0.078	0.70 µg/m³	1	GC24	3/16/13 12:10 AM
91-20-3	Naphthalene	1.8		0.42	0.52 µg/m³	1	GC24	3/16/13 12:10 AM
100-42-5	Styrene	ND		0.050	0.86 µg/m³	1	GC24	3/16/13 12:10 AM
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.15	0.34 µg/m³	1	GC24	3/16/13 12:10 AM
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.072	0.34 µg/m³	1	GC24	3/16/13 12:10 AM
127-18-4	Tetrachloroethene	120		0.34	0.34 µg/m³	1	GC24	3/16/13 12:10 AM
109-99-9	Tetrahydrofuran	ND		1.2	1.2 µg/m³	1	GC24	3/16/13 12:10 AM
108-88-3	Toluene	11		0.084	0.76 µg/m³	1	GC24	3/16/13 12:10 AM
120-82-1	1,2,4-Trichlorobenzene	ND		0.22	1.5 µg/m³	1	GC24	3/16/13 12:10 AM
71-55-6	1,1,1-Trichloroethane	ND		0.092	1.1 µg/m³	1	GC24	3/16/13 12:10 AM
79-00-5	1,1,2-Trichloroethane	ND		0.10	0.28 µg/m³	1	GC24	3/16/13 12:10 AM
79-01-6	Trichloroethene	3.9		0.12	1.1 µg/m³	1	GC24	3/16/13 12:10 AM
75-69-4	Trichlorofluoromethane	48		1.1	1.1 µg/m³	1	GC24	3/16/13 12:10 AM
95-63-6	1,2,4-Trimethylbenzene	3.2		0.11	1.0 µg/m³	1	GC24	3/16/13 12:10 AM
108-67-8	1,3,5-Trimethylbenzene	1.1		0.15	1.0 µg/m³	1	GC24	3/16/13 12:10 AM
108-05-4	Vinyl Acetate	3.5	J	0.10	72 µg/m³	1	GC24	3/16/13 12:10 AM
75-01-4	Vinyl Chloride	ND		0.12	0.12 µg/m³	1	GC24	3/16/13 12:10 AM
1330-20-7	Xylenes, Total	21		2.6	2.6 µg/m³	1	GC24	3/16/13 12:10 AM

**Surrogate Recovery**

17060-07-0	1,2-DCA-d4	112		0	70-130 %REC	1	GC24	3/16/13 12:10 AM
2037-26-5	toluene-d8(surr) (A)	96		0	70-130 %REC	1	GC24	3/16/13 12:10 AM
460-00-4	4-BFB (surr)	88		0	70-130 %REC	1	GC24	3/16/13 12:10 AM

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 Work Order: 1303408  
 Project: #21-32100GA-G01; Nert Soil Gas

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 75598

SampleID	TestCode:	Units:	Prep Date:								
MB-75598	TO15_LL_SOIL(UG/M3)	µg/m³	3/15/2013								
Batch ID:	TestNo:	Run ID:	Analysis Date:								
75598	TO15	GC24_130318B	3/15/2013								
Analyte	Result	MDL	PQL	SPKValue	SPKRefVal	%REC	Limits	RPDRefVal	%RPD	RPDLimit	Qual
Acetone	ND	0.24	12				-				
Acrylonitrile	ND	0.051	0.22				-				
tert-Amyl methyl ether (TAME)	ND	0.038	0.42				-				
Benzene	ND	0.023	0.080				-				
Benzyl chloride	ND	0.034	0.53				-				
Bromodichloromethane	ND	0.050	0.18				-				
Bromoform	ND	1.1	1.1				-				
Bromomethane	ND	0.10	0.39				-				
1,3-Butadiene	ND	0.14	0.22				-				
2-Butanone (MEK)	ND	0.016	30				-				
t-Butyl alcohol (TBA)	ND	0.084	6.2				-				
Carbon Disulfide	ND	0.021	0.32				-				
Carbon Tetrachloride	ND	0.034	0.16				-				
Chlorobenzene	ND	0.035	0.47				-				
Chloroethane	ND	0.038	0.27				-				
Chloroform	ND	0.036	0.12				-				
Chloromethane	ND	0.011	0.21				-				
Cyclohexane	ND	0.088	35				-				
Dibromochloromethane	ND	0.053	0.87				-				
1,2-Dibromo-3-chloropropane	ND	0.098	0.25				-				
1,2-Dibromoethane (EDB)	ND	0.048	0.20				-				
1,2-Dichlorobenzene	ND	0.073	0.61				-				
1,3-Dichlorobenzene	ND	0.052	0.61				-				
1,4-Dichlorobenzene	ND	0.092	0.15				-				
Dichlorodifluoromethane	ND	0.048	0.50				-				
1,1-Dichloroethane	ND	0.41	0.41				-				
1,2-Dichloroethane (1,2-DCA)	ND	0.045	0.10				-				
1,1-Dichloroethene	ND	0.020	0.10				-				
cis-1,2-Dichloroethene	ND	0.034	0.40				-				
trans-1,2-Dichloroethene	ND	0.032	0.40				-				
1,2-Dichloropropane	ND	0.056	0.12				-				
cis-1,3-Dichloropropene	ND	0.040	0.12				-				
trans-1,3-Dichloropropene	ND	0.12	0.12				-				
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.078	0.71				-				
Diisopropyl ether (DIPE)	ND	0.029	0.42				-				
1,4-Dioxane	ND	0.048	0.37				-				
Ethyl acetate	ND	0.048	0.92				-				
Ethyl tert-butyl ether (ETBE)	ND	0.042	0.42				-				
Ethylbenzene	ND	0.031	0.44				-				
4-Ethyltoluene	ND	0.50	0.50				-				
Freon 113	ND	0.055	0.78				-				

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CLIENT: Environ

Work Order: 1303408

Project: #21-32100GA-G01; Nert Soil Gas

# ANALYTICAL QC SUMMARY REPORT

BatchID: 75598

SampleID <b>MB-75598</b>	TestCode: <b>TO15_LL_SOIL(UG/M3)</b>	Units: <b>µg/m³</b>	Prep Date: <b>3/15/2013</b>
Batch ID: <b>75598</b>	TestNo: <b>TO15</b>	Run ID: <b>GC24_130318B</b>	Analysis Date: <b>3/15/2013</b>

Analyte	Result	MDL	PQL	SPKValue	SPKRefVal	%REC	Limits	RPDRefVal	%RPD	RPDLimit	Qual
Heptane	ND	0.037	42				-				
Hexachlorobutadiene	ND	0.069	1.1				-				
Hexane	ND	0.36	36				-				
2-Hexanone	ND	0.11	42				-				
4-Methyl-2-pentanone (MIBK)	ND	0.026	0.42				-				
Methyl-t-butyl ether (MTBE)	ND	0.048	0.37				-				
Methylene chloride	ND	0.039	0.35				-				
Naphthalene	ND	0.21	0.26				-				
Styrene	ND	0.025	0.43				-				
1,1,1,2-Tetrachloroethane	ND	0.077	0.17				-				
1,1,2,2-Tetrachloroethane	ND	0.036	0.17				-				
Tetrachloroethene	ND	0.17	0.17				-				
Tetrahydrofuran	ND	0.066	0.60				-				
Toluene	ND	0.042	0.38				-				
1,2,4-Trichlorobenzene	ND	0.11	0.75				-				
1,1,1-Trichloroethane	ND	0.046	0.55				-				
1,1,2-Trichloroethane	ND	0.051	0.14				-				
Trichloroethene	ND	0.061	0.55				-				
Trichlorofluoromethane	ND	0.57	0.57				-				
1,2,4-Trimethylbenzene	ND	0.055	0.50				-				
1,3,5-Trimethylbenzene	ND	0.075	0.50				-				
Vinyl Acetate	ND	0.050	36				-				
Vinyl Chloride	ND	0.060	0.060				-				
Xylenes, Total	ND	1.3	1.3				-				

### Surrogate Recovery

1,2-DCA-d4	99.87		100	100	70 - 130
toluene-d8(surr) (A)	92.11		100	92	70 - 130
4-BFB (surr)	86.28		100	86	70 - 130

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Work Order: 1303408

Project: #21-32100GA-G01; Nert Soil Gas

# ANALYTICAL QC SUMMARY REPORT

BatchID: 75598

SampleID <b>LCS-75598</b>	TestCode: <b>TO15_SOIL(NL/L)</b>	Units: <b>nL/L</b>	Prep Date: <b>3/15/2013</b>
Batch ID: <b>75598</b>	TestNo: <b>TO15</b>	Run ID: <b>GC24_130318B</b>	Analysis Date: <b>3/15/2013</b>

Analyte	Result	MDL	PQL	SPKValue	SPKRefVal	%REC	Limits	RPDRefVal	%RPD	RPDLimit	Qual
Acrylonitrile	28.87	2.0	2.0	25	0	115	60 - 140				
tert-Amyl methyl ether (TAME)	20	2.0	2.0	25	0	80	60 - 140				
Benzene	19.96	2.0	2.0	25	0	79.8	60 - 140				
Benzyl chloride	18.14	2.0	2.0	25	0	72.6	60 - 140				
Bromodichloromethane	21.86	2.0	2.0	25	0	87.5	60 - 140				
Bromoform	25.18	2.0	2.0	25	0	101	60 - 140				
t-Butyl alcohol (TBA)	18.94	20	20	25	0	75.8	60 - 140				J
Carbon Disulfide	18.82	2.0	2.0	25	0	75.3	60 - 140				
Carbon Tetrachloride	21.24	2.0	2.0	25	0	84.9	60 - 140				
Chlorobenzene	19.37	2.0	2.0	25	0	77.5	60 - 140				
Chloroethane	22.39	2.0	2.0	25	0	89.6	60 - 140				
Chloroform	20.65	2.0	2.0	25	0	82.6	60 - 140				
Chloromethane	21.99	2.0	2.0	25	0	88	60 - 140				
Dibromochloromethane	22.74	2.0	2.0	25	0	91	60 - 140				
1,2-Dibromo-3-chloropropane	25.19	2.0	2.0	25	0	101	60 - 140				
1,2-Dibromoethane (EDB)	18.95	2.0	2.0	25	0	75.8	60 - 140				
1,2-Dichlorobenzene	19.4	2.0	2.0	25	0	77.6	60 - 140				
1,3-Dichlorobenzene	19.56	2.0	2.0	25	0	78.2	60 - 140				
1,4-Dichlorobenzene	19.41	2.0	2.0	25	0	77.6	60 - 140				
Dichlorodifluoromethane	21.02	2.0	2.0	25	0	84.1	60 - 140				
1,1-Dichloroethane	20.54	2.0	2.0	25	0	82.2	60 - 140				
1,2-Dichloroethane (1,2-DCA)	20.34	2.0	2.0	25	0	81.4	60 - 140				
1,1-Dichloroethene	28.39	2.0	2.0	25	0	114	60 - 140				
cis-1,2-Dichloroethene	20.61	2.0	2.0	25	0	82.5	60 - 140				
trans-1,2-Dichloroethene	20.49	2.0	2.0	25	0	82	60 - 140				
1,2-Dichloropropane	21.44	2.0	2.0	25	0	85.8	60 - 140				
cis-1,3-Dichloropropene	19.98	2.0	2.0	25	0	79.9	60 - 140				
trans-1,3-Dichloropropene	20.42	2.0	2.0	25	0	81.7	60 - 140				
1,2-Dichloro-1,1,2,2-tetrafluoroethane	18.62	2.0	2.0	25	0	74.5	60 - 140				
Diisopropyl ether (DIPE)	21.38	2.0	2.0	25	0	85.5	60 - 140				
1,4-Dioxane	19.4	2.0	2.0	25	0	77.6	60 - 140				
Ethyl acetate	21.78	5.0	5.0	25	0	87.1	60 - 140				
Ethyl tert-butyl ether (ETBE)	19.75	2.0	2.0	25	0	79	60 - 140				
Ethylbenzene	19	2.0	2.0	25	0	76	60 - 140				
Freon 113	27.58	2.0	2.0	25	0	110	60 - 140				
Hexachlorobutadiene	18.1	2.0	2.0	25	0	72.4	60 - 140				
4-Methyl-2-pentanone (MIBK)	21.85	2.0	2.0	25	0	87.4	60 - 140				
Methyl-t-butyl ether (MTBE)	19.62	2.0	2.0	25	0	78.5	60 - 140				
Methylene chloride	15.35	2.0	2.0	25	0	61.4	60 - 140				
Naphthalene	36.81	2.0	2.0	50	0	73.6	60 - 140				
Styrene	20.83	2.0	2.0	25	0	83.3	60 - 140				
1,1,1,2-Tetrachloroethane	21.22	2.0	2.0	25	0	84.9	60 - 140				
1,1,2,2-Tetrachloroethane	17.96	2.0	2.0	25	0	71.8	60 - 140				

**Qualifiers:** ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits  
 J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits  
 B - Analyte detected in the associated Method Blank      E - Value above quantitation range



CLIENT: Environ

Work Order: 1303408

Project: #21-32100GA-G01; Nert Soil Gas

# ANALYTICAL QC SUMMARY REPORT

BatchID: 75598

SampleID <b>LCS-75598</b>	TestCode: <b>TO15_SOIL(NL/L)</b>	Units: <b>nL/L</b>	Prep Date: <b>3/15/2013</b>
Batch ID: <b>75598</b>	TestNo: <b>TO15</b>	Run ID: <b>GC24_130318B</b>	Analysis Date: <b>3/15/2013</b>

Analyte	Result	MDL	PQL	SPKValue	SPKRefVal	%REC	Limits	RPDRefVal	%RPD	RPDLimit	Qual
Tetrachloroethene	18.09	2.0	2.0	25	0	72.4	60 - 140				
Tetrahydrofuran	18.67	2.0	2.0	25	0	74.7	60 - 140				
Toluene	18.72	2.0	2.0	25	0	74.9	60 - 140				
1,2,4-Trichlorobenzene	17.88	2.0	2.0	25	0	71.5	60 - 140				
1,1,1-Trichloroethane	20.9	2.0	2.0	25	0	83.6	60 - 140				
1,1,2-Trichloroethane	20.1	2.0	2.0	25	0	80.4	60 - 140				
Trichloroethene	20.09	2.0	2.0	25	0	80.4	60 - 140				
1,2,4-Trimethylbenzene	18.91	2.0	2.0	25	0	75.6	60 - 140				
1,3,5-Trimethylbenzene	19.02	2.0	2.0	25	0	76.1	60 - 140				
Vinyl Chloride	18.98	2.0	2.0	25	0	75.9	60 - 140				
Xylenes, Total	57.94	6.0	6.0	75	0	77.2	60 - 140				

### Surrogate Recovery

1,2-DCA-d4	460.8			500		92	60 - 140				
toluene-d8(surr) (A)	457			500		91	60 - 140				
4-BFB (surr)	427.9			500		86	60 - 140				

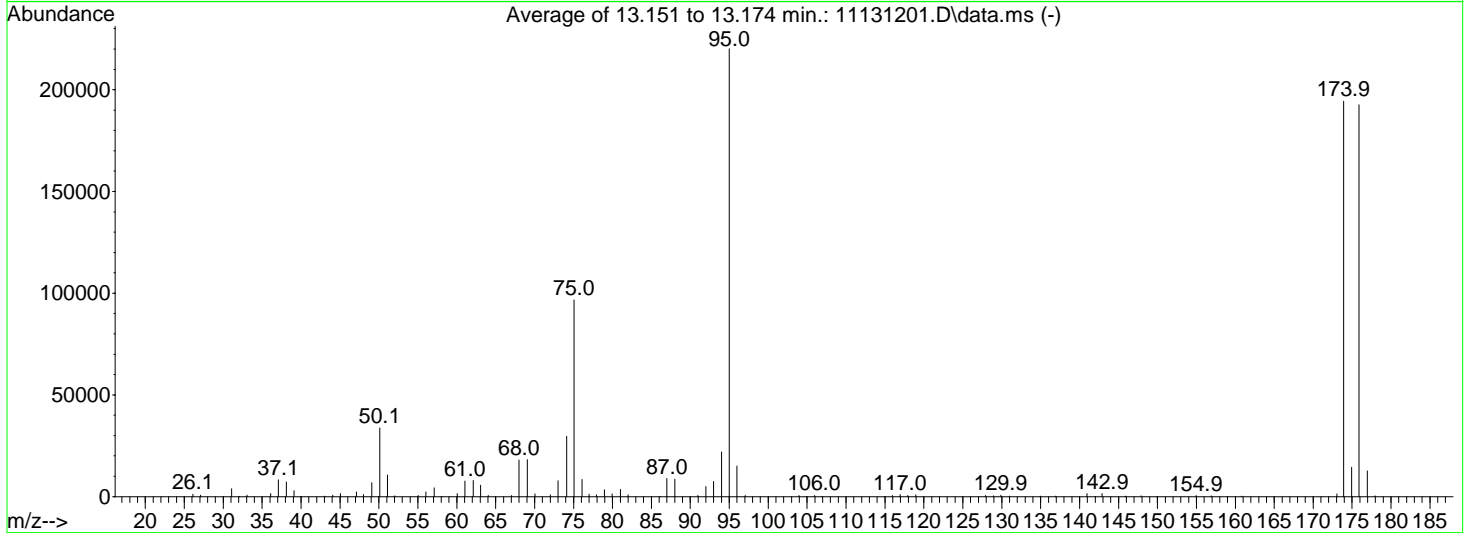
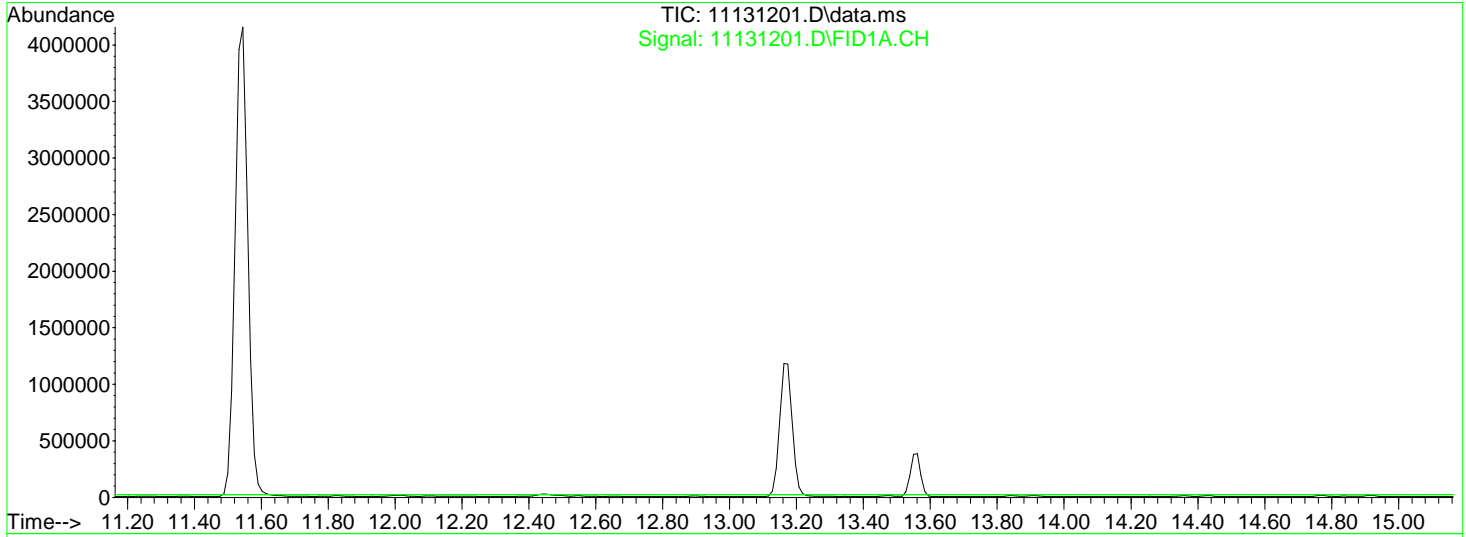
**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range

Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 11131201.D  
 Acq On : 13 Nov 2012 1:09 pm  
 Operator :  
 Sample : tune  
 Misc : TO15\_SOILGAS (Sig #1); (Sig #2)  
 ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint4.p  
 Integration File signal 2: rteint2.p

Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Title : 8240 calibration table  
 Last Update : Fri Apr 05 16:52:03 2013



AutoFind: Scans 1147, 1148, 1149; Background Corrected with Scan 1141

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	15.4	33810	PASS
75	95	30	66	43.9	96696	PASS
95	95	100	100	100.0	220224	PASS
96	95	5	9	6.9	15101	PASS
173	174	0.00	2	0.7	1386	PASS
174	95	50	100	88.2	194288	PASS
175	174	4	9	7.4	14384	PASS
176	174	93	101	99.2	192640	PASS
177	176	5	9	6.6	12740	PASS

MCCAMPBELL ANALYTICAL INC INITIAL CALIBRATION

Inst : GC-24 Method : TO15DWW.M  
 Unit : Date : 14 Nov 2012 6:18 pm

Level	File	Analyzed
L1	11131204rrf	14 Nov 2012 10:49 am
L2	11131205rrf	14 Nov 2012 11:29 am
L3	11131206rrf	14 Nov 2012 12:09 pm
L4	11131207rrf	14 Nov 2012 12:49 pm
L5	11131208rrf	14 Nov 2012 1:30 pm
L6	11131209rrf	14 Nov 2012 2:12 pm
L7	11131212rrf	14 Nov 2012 3:16 pm
L8	11131219rrf	14 Nov 2012 8:20 pm
L9	11131214rrf	14 Nov 2012 4:38 pm
L10	11131215rrf	14 Nov 2012 5:24 pm
L11	11131216rrf	14 Nov 2012 6:18 pm

Compound Name	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	Avg RF	RSRD	Max RSRD	Curve Type	Equation	r <sup>2</sup>	Min r <sup>2</sup>	Flg
bromochloromethane	1	1	1	1	1	1	1	1	1	1	1	1	4.6	15	AvgRF			0.99	Y
Propene (coelute w/Propane)				9.7002	9.4454	7.8618	8.3619	7.1883				8.51152	19.5	15	AvgRF			0.99	
Dichlorodifluoromethane (Freon-12)	32.399	27.318	23.957	18.534	22.405	21.666	24.417	19.338				23.75425	16.7	15	AvgRF			0.99	
Freon 114(1,2-dichloro-1,1,2-tetrafluoroethane)	31.252	27.663	24.259	18.701	22.406	21.985	24.305	20.107				23.83475	14.6	15	AvgRF			0.99	
chloromethane (coelute w/butane)			20.84	11.539	12.127	11.336	13.083	8.9302				12.9758667	30.2	15	Quad	y = -73.2063x2 + 16.4469x + -0.0012	0.991	0.99	Y
vinyl chloride (HIAL= 0.006)	11.718	10.321	8.7512	6.9969	8.8535	9.1792	10.686	9.0298				9.44195	12.1	15	AvgRF			0.99	Y
1,3-Butadiene	7.5597	6.2344	5.0466	4.3227	5.5634	6.4215	7.6128	6.599				6.1700125	15.7	15	AvgRF			0.99	
bromomethane	6.8286	4.9268	3.6058	4.3961	6.4602	5.1847	5.814	3.8205				4.9295875	18.9	15	AvgRF			0.99	
chloroethane	4.2931	3.5603	2.9683	2.7345	3.2753	4.1317	3.9081	3.4544	2.319	2.4112		3.30559	19.4	15	AvgRF			0.99	
Trichlorofluoromethane (Freon-11)	20.191	17.651	16.777	13.322	14.895	14.456	15.181	13.237				15.71375	13.5	15	AvgRF			0.99	Y
1,1-dichloroethene	13.925	11.824	11.124	8.9318	10.512	5.2612	5.5924	4.0569				8.47628889	42.1	15	Quad	y = -9.0577x2 + 5.798x + 0.0144	0.997	0.99	Y
methylene dichloride	39.562	24.388	17.57	10.953	11.652	10.502	11.331	9.9351	8.8892			16.0869222	61	15	Line		0.995	0.99	Y
carbon disulfide	42.263	33.216	34.871	27.024	32.739	32.429	38.893	31.28	26.017	19.803		31.8535	18.6	15	Line		0.99	0.99	Y
Freon-113 (Trichlorotrifluoroethane)	29.18	24.548	22.945	18.049	21.028	18.999	11.704	9.6141	8.0137			18.2312	39	15	Quad	y = -18.7045x2 + 11.4335x + 0.0537	0.991	0.99	Y
Acrylonitrile	9.7805	8.5605	8.2986	6.6061	7.7456	5.7112	3.3371	3.8096	3.3778			6.35855556	38.2	15	Quad	y = -2.373x2 + 3.7784x + 0.0159	0.993	0.99	Y
trans-1,2-dichloroethene	14.664	12.296	11.662	9.4834	11.113	10.741	12.107	10.81	9.5187	8.421		11.08161	14.8	15	AvgRF			0.99	Y
vinyl acetate	35.286	28.159	26.385	21.607	25.705	24.806	28.343	26.026	23.01	19.945		25.9272	15.1	15	AvgRF			0.99	
MTBE	43.941	36.621	34.152	27.321	31.959	30.388	33.578	29.88	25.472			32.5902222	15.4	15	AvgRF			0.99	
1,2-DCA-d4	0.50354	0.48726	0.50437	0.52051	0.53185	0.52523	0.5007	0.52121	0.4908	0.47317	0.52546	0.50764545	4.7	15	AvgRF			0.99	Y
1,2-Dichloroethane (HIAL= 0.014)	19.037	15.986	14.492	11.797	14.153	13.642	15.18	13.522	12.075			14.4315556	13.3	15	AvgRF			0.99	Y
1,1-dichloroethane	25.593	21.142	20.262	16.292	19.072	18.145	20.423	18.475	16.119			19.5025556	13.1	15	AvgRF			0.99	Y
2-butanone (MEK)				8.9715	8.8823	7.8135	7.2542	6.5685	5.8994			7.5649	22.3	15	AvgRF			0.99	
OXY-DIISOPROPYL ETHER	47.687	39.273	37.162	30.06	35.482	33.352	38.68	33.872	28.041			35.9565556	14.6	15	AvgRF			0.99	Y
cis-1,2-dichloroethene	15.91	13.777	12.761	10.009	11.922	11.439	13.042	11.768	10.476	9.3217		12.04257	14.8	15	AvgRF			0.99	Y
Chloroform (HIAL= 0.045)	30.62	25.844	23.178	17.979	21.188	20.638	23.073	20.478	18.104	15.656		21.6758	18.7	15	AvgRF			0.99	
Ethyl Acetate	34.407	29.146	26.207	21.385	24.237	22.797	25.26	23.077	19.797	17.358		24.1626667	20.3	15	AvgRF			0.99	
OXY-ETBE	47.889	40.271	37.841	30.165	35.461	34.351	39.988	35.527	30.14			36.8481111	13.2	15	AvgRF			0.99	Y
THF			26.963	15.563	15.645	17.007	15.673	13.496	11.894			16.6058571	28.7	15	AvgRF			0.99	
Cyclohexane	31.202	23.611	21.458	16.259	18.424	18.067	19.472	17.604	14.884	12.222		19.3203	26.2	15	AvgRF			0.99	
Hexane	31.018	24.492	25.512	17.881	20.648	19.194	20.883	18.461	15.348			21.493	25	15	AvgRF			0.99	
p-Dioxane	12.194	9.403	9.063	7.103	8.3299	7.9379	8.6818	7.8705	7.2426	6.5516		8.43773	17.7	15	AvgRF			0.99	
1,1,1-Trichloroethane	30.494	24.79	23.456	18.693	22.214	21.473	23.999	21.09	18.246	15.493		21.9948	17.8	15	AvgRF			0.99	
benzene (HIAL= 0.013)	55.119	44.011	40.447	31.427	36.757	34.995	38.596	34.128	29.021	22.976		36.7477	23	15	AvgRF			0.99	
carbon tetrachloride (HIAL= 0.0045)	29.73	24.756	23.751	19.109	22.63	21.862	24.77	21.262	18.037	14.252		22.0159	18.5	15	AvgRF			0.99	
1,4-Difluorobenzene (Is)	1	1	1	1	1	1	1	1	1	1	1	1	0	15	AvgRF			0.99	Y
OXY-TAME		10.777	9.942	7.6567	9.0018	8.6367	10.143	8.9672	7.7728			9.11215	10.2	15	AvgRF			0.99	Y
Heptane			6.4094	4.5939	5.2019	4.9636	5.4587	4.7869	4.1326	3.4068		4.869225	18.3	15	AvgRF			0.99	
trichloroethene	6.4094	4.8539	4.6265	3.5908	4.2245	4.0356	4.5686	3.9434	3.4963	2.9227		4.26717	21.3	15	AvgRF			0.99	
1,2-dichloropropane (HIAL= 0.025)	4.6267	3.4361	3.4563	2.6889	3.1732	3.0304	3.4526	3.0865	2.7436	2.3332		3.20275	18.3	15	AvgRF			0.99	
bromidichmet (HSGL= 0.15 / HIAL= 0.0045)	7.3861	5.8753	5.79	4.6175	5.5062	5.375	6.3176	5.5336	4.9364	4.1226		5.54603	15.1	15	AvgRF			0.99	
4-methyl-2-pentanone (MIBK)		9.2855	7.4794	5.7452	6.603	6.3188	7.0424	6.2567	5.4959	4.6419		6.5409778	19.5	15	AvgRF			0.99	
cis-1,3-dichloropropene (HIAL= 0.017)	7.2674	6.091	5.625	4.3629	5.1735	5.0289	5.7116	5.0814	4.5717	3.9596		5.2873	16.6	15	AvgRF			0.99	
toluene-d8(surr)	0.40855	0.38024	0.40801	0.40736	0.41288	0.40752	0.40691	0.42107	0.41475	0.40361	0.38312	0.40491091	3.1	15	AvgRF			0.99	Y
toluene	10.928	8.2846	7.828	5.9321	6.9414	6.662	7.5352	6.6254	5.8542			7.39898889	19.4	15	AvgRF			0.99	
1,1,2-trichloroethane (HIAL= 0.013)	5.2875	4.3502	4.0521	3.1276	3.7174	3.5692	4.0695	3.5952	3.2181	2.6994		3.76862	18	15	AvgRF			0.99	
trans-1,3-dichloropropene (HIAL= 0.017)	6.8304	4.9476	4.9688	3.9507	4.7331	4.581	5.3069	4.8222	4.2527	3.6934		4.81468	16.9	15	AvgRF			0.99	
2-hexanone (MEK)	9.945	7.2457	7.2147	5.4865	6.3881	6.1037	6.7725	6.0811	5.33	4.5071		6.50744	21.7	15	AvgRF			0.99	
dibromochloromethane (HIAL= 0.005)	5.4478	4.8165	4.3423	3.4905	4.2498	4.1364	5.2583	4.5439	4.0096	3.2429		4.3538	14.4	15	AvgRF			0.99	Y
tetrachloroethane (HIAL= 0.029)	6.9685	6.1446	5.3104	4.026	4.6346	4.4508	4.9423	4.2385	3.6935	2.982		4.73912	23.7	15	AvgRF			0.99	
EDB (HIAL= 0.0022)	8.1443	7.1512	6.2186	4.7851	5.6235	5.4257	6.1308	5.3773	4.7837			5.9600222	16.8	15	AvgRF			0.99	
chlorobenzene		10.134	7.669	7.9659	8.9373	8.6015	9.6534	8.3998				8.89916667	7.1	15	AvgRF			0.99	Y
*CHLOROENZENE-D5	1	1	1	1	1	1	1	1	1	1	1	1	0	15	AvgRF			0.99	Y
ethylbenzene	24.024	19.814	17.737	13.634	15.857	15.126	16.477	14.148	11.86	9.1996		15.78766	25.4	15	AvgRF			0.99	
p,m-xylene		8.357	7.3309	6.7092	6.4589	6.1967	6.8474	5.8242	4.9253			6.5812	15.5	15	AvgRF			0.99	
styrene	15.146	12.452	10.954	8.5714	10.12	9.7881	10.964	9.5074	8.1876	6.5387		10.22292	22.3	15	Quad	y = -9.0984x2 + 10.1399x + 0.0085	0.999	0.99	Y
o-xylene	21.534	17.365	15.384	11.596	13.406	12.732	14.183	12.178	10.37	7.9949		13.67429	20.9	15	AvgRF			0.99	
bromofom	6.0438	5.3204	4.8441	3.9412	4.756	4.6953	6.99	6.0262	5.2919	4.283		5.21919	15.6	15	AvgRF			0.99	
4-Ethyltoluene	28.357	23.425	20.886	15.952	18.628	17.658	18.651	15.723	12.765			19.1161111	23	15	Quad	y = -32.4823x2 + 19.2265x + 0.0028	0.999	0.99	Y



1,1,1,2-Tetrachloroethane (HIAL= 0.023)	0.025	0.05	0.1	0.3	0.5	1	2.5	5	10	20	40
4-BFB (surr)	100	100	100	100	100	100	100	100	100	100	100
Benzyl chloride	0.025	0.05	0.1	0.3	0.5	1	2.5	5	10	20	40
1,3,5 TrimethylBz	0.025	0.05	0.1	0.3	0.5	1	2.5	5	10	20	40
1,2,4 TrimethylBz	0.025	0.05	0.1	0.3	0.5	1	2.5	5	10	20	40
1,3-dichlorobenzene	0.025	0.05	0.1	0.3	0.5	1	2.5	5	10	20	40
1,4-dichlorobenzene (HIAL= 0.017)	0.025	0.05	0.1	0.3	0.5	1	2.5	5	10	20	40
1,2-dichlorobenzene	0.025	0.05	0.1	0.3	0.5	1	2.5	5	10	20	40
DBCP (HSGI= 0.06 / HIAL= 0.00006)	0.025	0.05	0.1	0.3	0.5	1	2.5	5	10	20	40
1,2,4-trichlorobz (HIAL=0.05)	0.025	0.05	0.1	0.3	0.5	1	2.5	5	10	20	40
Naphthalene (HIAL= 0.0065)	0.05	0.1	0.2	0.5	1	2	5	10	20	40	80
hexachlorobutadiene	0.025	0.05	0.1	0.3	0.5	1	2.5	5	10	20	40
bromochloromethane	50	50	50	50	50	50	50	50	50	50	50
acetone	0.025	0.05	0.1	0.3	0.5	1	2.5	5	10	20	40
tert-Butyl alcohol	0.025	0.05	0.1	0.3	0.5	1	2.5	5	10	20	40
2-propanol (IPA)	0.025	0.05	0.1	0.3	0.5	1	2.5	5	10	20	40

Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 11131204.D  
 Acq On : 14 Nov 2012 10:49 am  
 Operator :  
 Sample : 0.025 CAL (Sig #1); 0.025 (Sig #2)  
 Misc : TO15\_SOILGAS  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 12 16:39:11 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 12 16:25:09 2013  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) bromochloromethane	6.739	130	1050224	50.00	nL	-0.03	
39) 1,4-Difluorobenzene (Is)	7.957	114	4228477	50.00	nL	-0.01	
56) *CHLOROBENZENE-D5	11.545	117	3964074	50.00	nL	-0.01	
76) bromochloromethane	0.000	130	0m	50.00	nL	-6.67	
System Monitoring Compounds							
22) 1,2-DCA-d4	7.308	65	1057487	100.94	nL	-0.03	
47) toluene-d8(surr)	9.768	98	3455057	101.03	nL	-0.01	
65) 4-BFB (surr)	13.174	95	2459817	98.52	nL	0.00	
Target Compounds							
4) Propene (coelute w/Pro...)	3.402	41	31692	0.17	nL		Qvalue # 90
5) Dichlorodifluoromethane...	3.470	85	17010	0.03	nL		99
7) Freon 114(12dichloro-1...	3.652	85	16408m	0.03	nL		
8) chloromethane (coelute...	3.652	50	28477m	0.15	nL		
9) vinyl chloride (HIAL= ...	3.812	62	6151m	0.03	nL		
10) 1.3-Butadiene	3.891	54	3969	0.03	nL	#	83
11) bromomethane	4.119	96	5014	0.05	nL	#	99
12) chloroethane	4.233	64	2254	0.03	nL	#	82
13) Trichlorofluoromethane...	4.609	101	10601	0.03	nL		99
14) 1,1-dichloroethene	5.065	96	7311	Below	Cal	#	73
15) methylene dichloride	5.292	84	20771	Below	Cal	#	64
16) carbon disulfide	5.440	76	24874	Below	Cal	#	91
17) Freon-113 (Trichlorotr...	5.156	101	15320	Below	Cal		89
18) Acrylonitrile	5.121	53	5135	Below	Cal	#	93
19) trans-1,2-dichloroethene	5.805	96	7699	0.03	nL	#	72
20) vinyl acetate	5.987	43	18526	0.03	nL	#	86
21) MTBE	5.816	73	23070	0.03	nL	#	87
23) 1,2-Dichloroethane (HI...	7.399	62	9995	0.03	nL	#	87
24) 1,1-dichloroethane	6.010	63	13437	0.03	nL	#	96
25) 2-butanone (MEK)	6.226	72	22327	0.14	nL	#	77
26) OXY-DIISOPROPYL ETHER	6.329	45	25037	0.03	nL	#	93
27) cis-1,2-dichloroethene	6.511	96	8353	0.03	nL	#	67
29) Chloroform (HIAL= 0.045)	6.807	83	16076	0.03	nL	#	93
30) Ethyl Acetate	6.556	43	26045	0.05	nL	#	87
31) OXY-ETBE	6.693	59	25143	0.03	nL	#	89
32) THF	6.932	42	34191m	0.10	nL		
33) Cyclohexane	7.695	56	16382	0.04	nL	#	85
34) Hexane	6.306	57	16285	0.04	nL	#	93
35) p-Dioxane	8.538	88	6402	0.04	nL	#	80
36) 1,1,1-Trichloroethane	7.285	97	16010	0.03	nL		98
37) benzene (HIAL= 0.013)	7.627	78	28939	0.04	nL	#	90
38) carbon tetrachloride (...)	7.661	117	15609	0.03	nL		99
40) OXY-TAME	7.878	73	27713	0.04	nL	#	87
41) Heptane	8.288	43	24139	0.06	nL	#	78
42) trichloroethene	8.402	130	13551	0.04	nL		91
43) 1,2-dichloropropane (H...	8.447	63	9782	0.04	nL		94
44) bromdichmet (HSG= 0.1...	8.652	83	15616	0.03	nL		97
45) 4-methyl-2-pentanone (...)	9.130	43	26849	0.05	nL	#	95
46) cis-1,3-dichloropropen...	9.210	75	15365	0.03	nL		97
48) toluene	9.859	92	23104	0.04	nL	#	98
49) 1,1,2-trichloroethane ...	9.996	97	11179	0.03	nL	#	84
50) trans-1,3-dichloroprop...	9.734	75	14568	0.04	nL		97
51) 2-hexanone (MBK)	10.144	43	21026	0.04	nL	#	93
52) dibromochloromethane (...)	10.611	127	11518	0.03	nL		99
53) tetrachloroethene (HIA...	10.736	164	14733	0.04	nL		97
54) EDB (HIAL= 0.0022)	10.839	107	17219	0.03	nL		96

Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 11131204.D  
 Acq On : 14 Nov 2012 10:49 am  
 Operator :  
 Sample : 0.025 CAL (Sig #1); 0.025 (Sig #2)  
 Misc : TO15\_SOILGAS  
 ALS Vial : 13 Sample Multiplier: 1

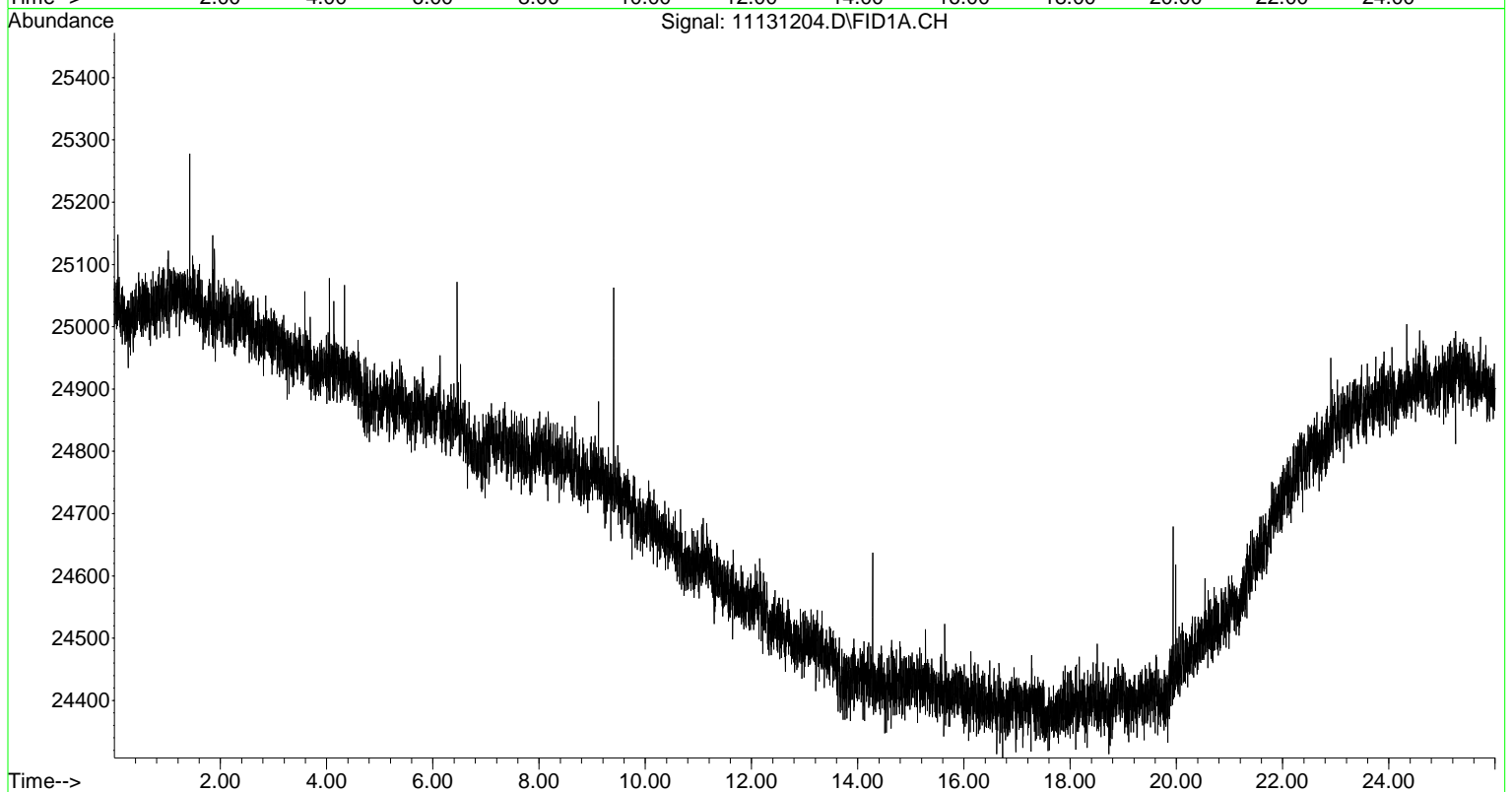
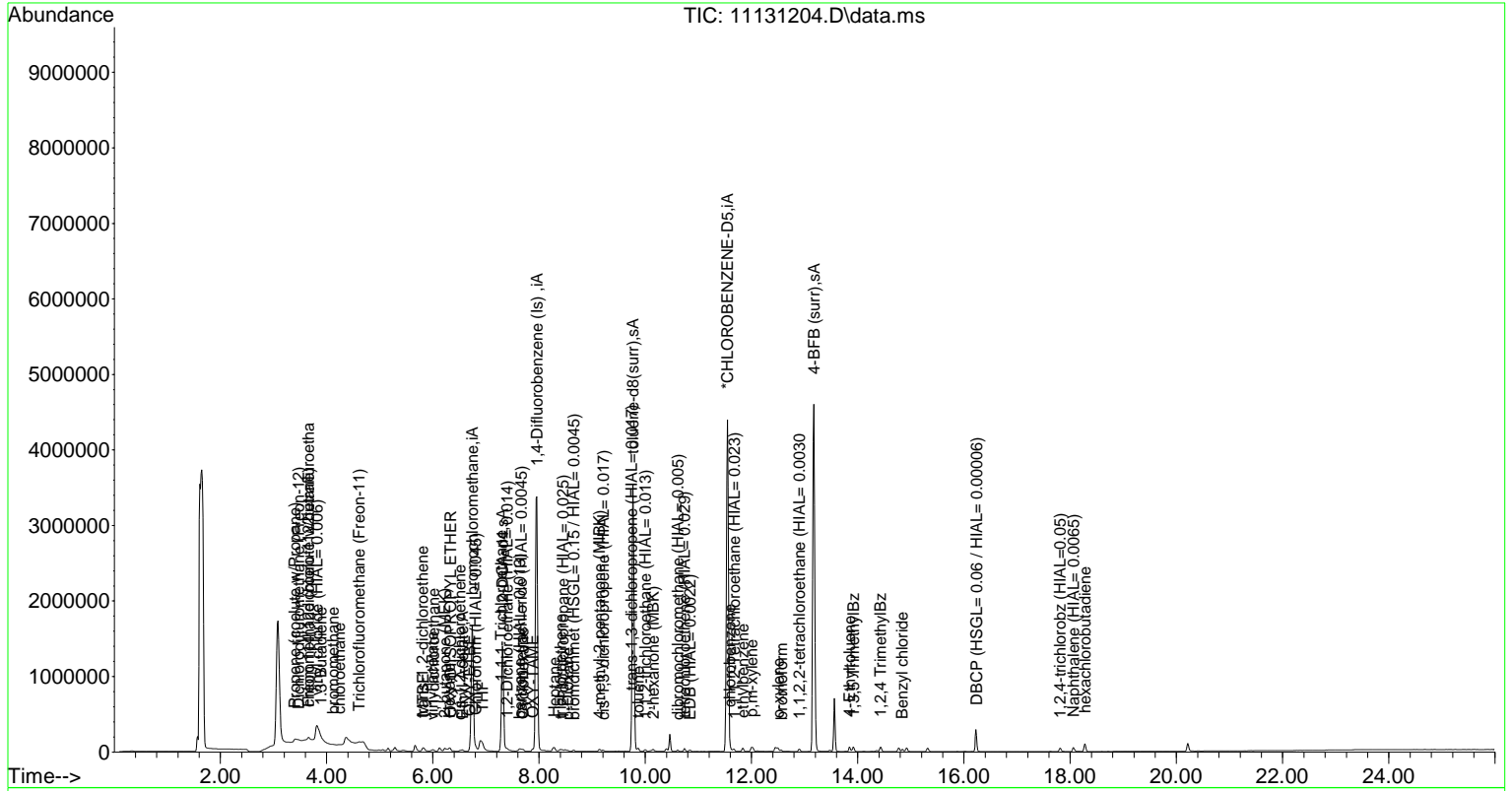
Quant Time: Apr 12 16:39:11 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 12 16:25:09 2013  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) chlorobenzene	11.591	112	28445	0.04	nL	95
57) ethylbenzene	11.830	91	47616	0.04	nL	98
58) p,m-xylene	12.001	106	40778	0.08	nL	93
59) styrene	12.456	104	30020	Below	Cal	95
60) o-xylene	12.502	91	42682	0.04	nL	96
61) bromoform	12.559	173	11979	0.03	nL	# 97
62) 4-Ethyltoluene	13.846	105	56204	0.03	nL	99
63) 1,1,2,2-tetrachloroeth...	12.900	83	24668	0.03	nL	98
64) 1,1,1,2-Tetrachloroeth...	11.670	131	12788	0.03	nL	# 72
66) Benzyl chloride	14.836	91	34968	0.03	nL	96
67) 1,3,5 TrimethylBz	13.914	105	51480	0.04	nL	99
68) 1,2,4 TrimethylBz	14.426	105	52862	0.04	nL	97
69) 1,3-dichlorobenzene	14.768	146	35160	Below	Cal	96
70) 1,4-dichlorobenzene (H...	14.916	146	36562	Below	Cal	97
71) 1,2-dichlorobenzene	15.315	146	33402	Below	Cal	# 94
72) DBCP (HSGI= 0.06 / HIA...	16.237	157	9287	0.03	nL	95
73) 1,2,4-trichlorobz (HIA...	17.809	180	29720	0.02	nL	97
74) Naphthalene (HIAL= 0.0...	18.060	128	85291	0.07	nL	100
75) hexachlorobutadiene	18.276	225	33901	0.03	nL	# 91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 11131204.D  
 Acq On : 14 Nov 2012 10:49 am  
 Operator :  
 Sample : 0.025 CAL (Sig #1); 0.025 (Sig #2)  
 Misc : TO15\_SOILGAS  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 12 16:39:11 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 12 16:25:09 2013  
 Response via : Initial Calibration





Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 11131205.D  
 Acq On : 14 Nov 2012 11:29 am  
 Operator :  
 Sample : 0.05  
 Misc : TO15\_SOILGAS (Sig #1); (Sig #2)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 12 16:38:57 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 12 16:25:09 2013  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	6.739	130	982781	50.00	nL	-0.03
39) 1,4-Difluorobenzene (Is)	7.946	114	3903276	50.00	nL	-0.02
56) *CHLOROBENZENE-D5	11.545	117	3777195	50.00	nL	-0.01
76) bromochloromethane	0.000	130	0m	50.00	nL	-6.67
System Monitoring Compounds						
22) 1,2-DCA-d4	7.308	65	957724	97.69	nL	-0.03
47) toluene-d8(surr)	9.768	98	2968337	94.03	nL	-0.01
65) 4-BFB (surr)	13.174	95	2334171	98.12	nL	0.00
Target Compounds						Qvalue
4) Propene (coelute w/Pro...	3.425	41	32567	0.19	nL	# 93
5) Dichlorodifluoromethane...	3.493	85	26847	0.06	nL	# 96
7) Freon 114(12dichloro-1...	3.675	85	27186m	0.06	nL	
8) chloromethane (coelute...	3.664	50	31622m	0.16	nL	
9) vinyl chloride (HIAL= ...	3.823	62	10143	0.05	nL	# 96
10) 1.3-Butadiene	3.903	54	6127m	0.05	nL	
11) bromomethane	4.142	96	6711	0.07	nL	88
12) chloroethane	4.245	64	3499	0.05	nL	# 87
13) Trichlorofluoromethane...	4.620	101	17347m	0.05	nL	
14) 1,1-dichloroethene	5.065	96	11620	Below	Cal	# 76
15) methylene dichloride	5.292	84	23968	Below	Cal	# 62
16) carbon disulfide	5.440	76	39079	Below	Cal	# 98
17) Freon-113 (Trichlorotr...	5.167	101	24125	Below	Cal	89
18) Acrylonitrile	5.122	53	8413	Below	Cal	93
19) trans-1,2-dichloroethene	5.794	96	12084	0.05	nL	# 73
20) vinyl acetate	5.987	43	27674	0.05	nL	# 89
21) MTBE	5.816	73	35990	0.06	nL	# 87
23) 1,2-Dichloroethane (HI...	7.399	62	15711m	0.05	nL	
24) 1,1-dichloroethane	6.010	63	20778	0.05	nL	# 92
25) 2-butanone (MEK)	6.261	72	14066m	0.09	nL	
26) OXY-DIISOPROPYL ETHER	6.329	45	38596	0.05	nL	# 87
27) cis-1,2-dichloroethene	6.511	96	13540	0.06	nL	# 65
29) Chloroform (HIAL= 0.045)	6.807	83	25399	0.06	nL	97
30) Ethyl Acetate	6.545	43	33814	0.07	nL	# 84
31) OXY-ETBE	6.693	59	39577	0.05	nL	# 89
32) THF	6.932	42	47060m	0.14	nL	
33) Cyclohexane	7.696	56	23204	0.06	nL	# 79
34) Hexane	6.306	57	24070	0.06	nL	# 96
35) p-Dioxane	8.527	88	9241	0.05	nL	# 78
36) 1,1,1-Trichloroethane	7.286	97	24363	0.06	nL	# 94
37) benzene (HIAL= 0.013)	7.627	78	43253	0.06	nL	# 91
38) carbon tetrachloride (...)	7.661	117	24330	0.06	nL	99
40) OXY-TAME	7.878	73	42067	0.06	nL	# 86
41) Heptane	8.288	43	29022	0.07	nL	# 76
42) trichloroethene	8.402	130	18946	0.06	nL	86
43) 1,2-dichloropropane (H...	8.436	63	13412	0.05	nL	94
44) bromdichmet (HSG= 0.1...	8.652	83	22933	0.05	nL	# 98
45) 4-methyl-2-pentanone (...)	9.131	43	36244	0.07	nL	# 91
46) cis-1,3-dichloropropen...	9.199	75	23775	0.06	nL	97
48) toluene	9.859	92	32337	0.06	nL	# 95
49) 1,1,2-trichloroethane ...	9.996	97	16980	0.06	nL	# 88
50) trans-1,3-dichloroprop...	9.734	75	19312	0.05	nL	# 95
51) 2-hexanone (MBK)	10.133	43	28282	0.05	nL	# 92
52) dibromochloromethane (...)	10.611	127	18800	0.05	nL	# 99
53) tetrachloroethene (HIA...	10.736	164	23984	0.06	nL	95
54) EDB (HIAL= 0.0022)	10.839	107	27913	0.06	nL	97

Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 11131205.D  
 Acq On : 14 Nov 2012 11:29 am  
 Operator :  
 Sample : 0.05  
 Misc : TO15\_SOILGAS (Sig #1); (Sig #2)  
 ALS Vial : 13 Sample Multiplier: 1

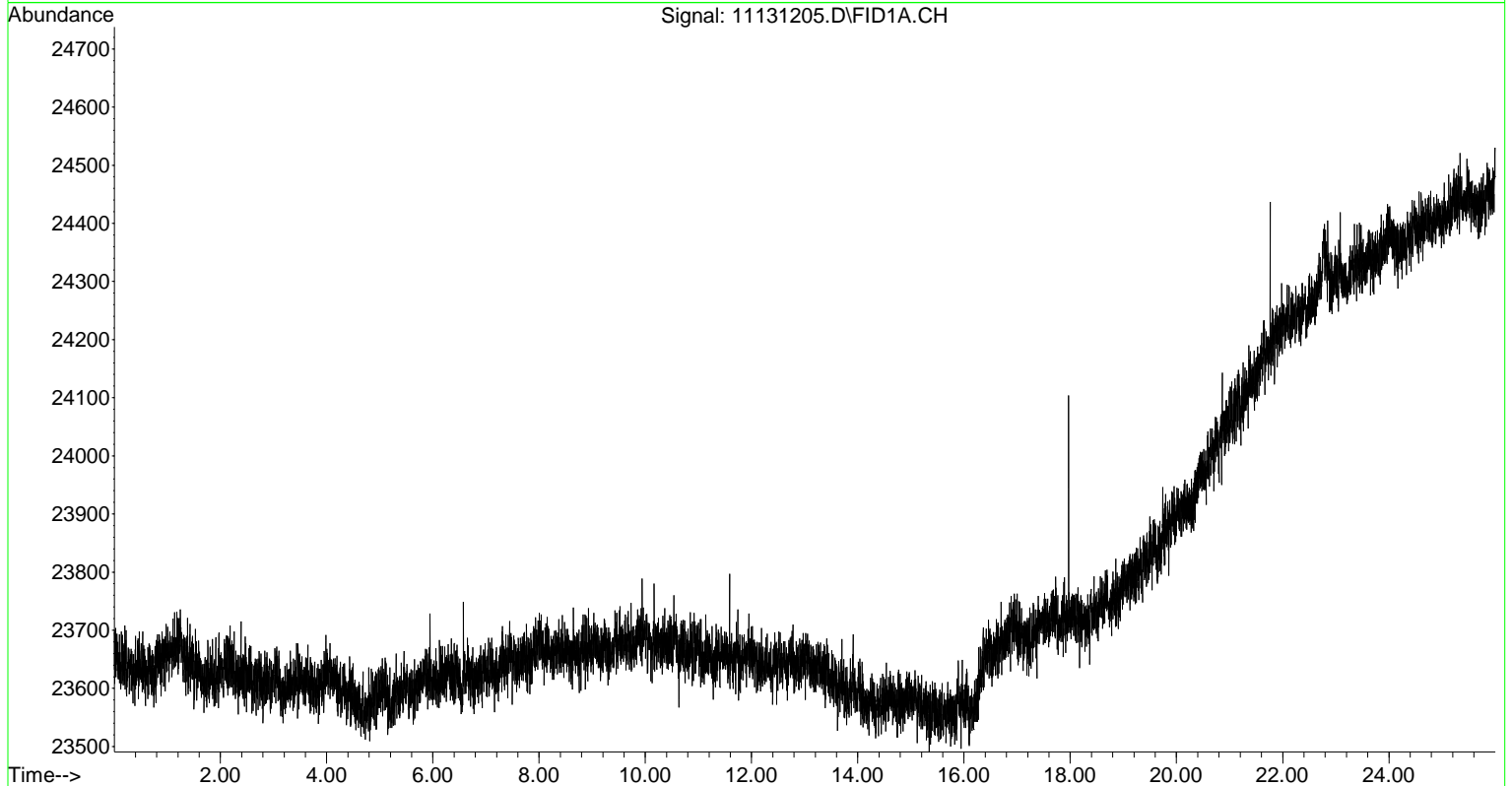
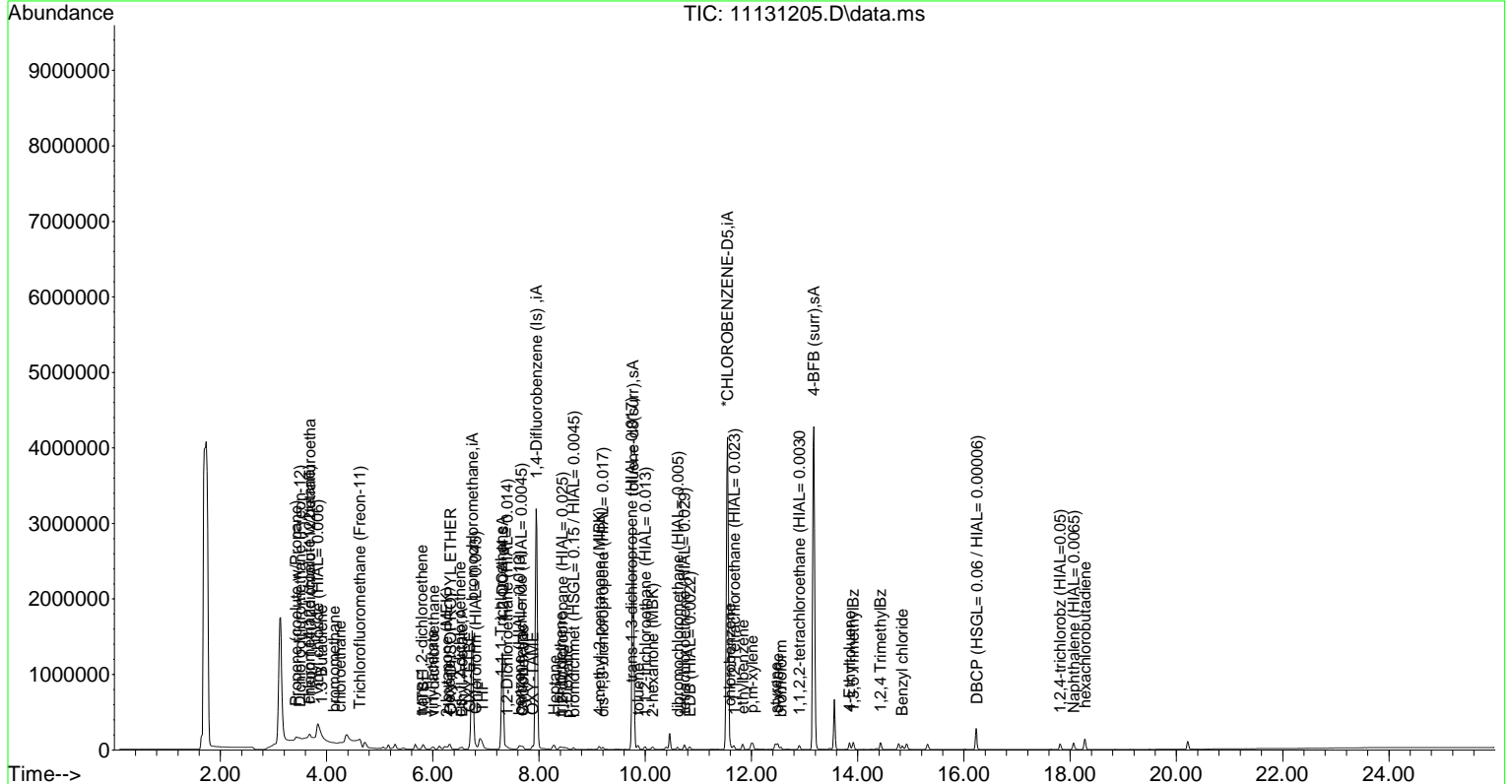
Quant Time: Apr 12 16:38:57 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 12 16:25:09 2013  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) chlorobenzene	11.591	112	45615	0.06	nL	# 95
57) ethylbenzene	11.830	91	74842	0.06	nL	96
58) p,m-xylene	12.012	106	63132	0.13	nL	# 89
59) styrene	12.456	104	47035	0.02	nL	97
60) o-xylene	12.490	91	65590	0.07	nL	95
61) bromoform	12.547	173	20096	0.05	nL	# 94
62) 4-Ethyltoluene	13.846	105	88481	0.05	nL	98
63) 1,1,2,2-tetrachloroeth...	12.900	83	38902	0.06	nL	# 99
64) 1,1,1,2-Tetrachloroeth...	11.670	131	21068	0.06	nL	# 72
66) Benzyl chloride	14.837	91	57430	0.06	nL	# 96
67) 1,3,5 TrimethylBz	13.914	105	77566	0.07	nL	97
68) 1,2,4 TrimethylBz	14.427	105	79262	0.07	nL	98
69) 1,3-dichlorobenzene	14.768	146	54218	Below	Cal	95
72) DBCP (HSGL= 0.06 / HIA...	16.237	157	14474	0.05	nL	92
73) 1,2,4-trichlorobz (HIA...	17.809	180	45787	0.05	nL	97
74) Naphthalene (HIAL= 0.0...	18.060	128	132577	0.12	nL	99
75) hexachlorobutadiene	18.276	225	48530	0.05	nL	# 90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 11131205.D  
 Acq On : 14 Nov 2012 11:29 am  
 Operator :  
 Sample : 0.05  
 Misc : TO15\_SOILGAS (Sig #1); (Sig #2)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 12 16:38:57 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 12 16:25:09 2013  
 Response via : Initial Calibration



Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 11131206.D  
 Acq On : 14 Nov 2012 12:09 pm  
 Operator :  
 Sample : 0.1  
 Misc : TO15\_SOILGAS (Sig #1); (Sig #2)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 12 16:41:12 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 12 16:25:09 2013  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	6.750	130	1047230	50.00	nL	-0.02
39) 1,4-Difluorobenzene (Is)	7.946	114	4241207	50.00	nL	-0.02
56) *CHLOROENZENE-D5	11.545	117	3948789	50.00	nL	-0.01
76) bromochloromethane	0.000	130	0m	50.00	nL	-6.67
System Monitoring Compounds						
22) 1,2-DCA-d4	7.308	65	1056391	101.12	nL	-0.03
47) toluene-d8(surr)	9.768	98	3460893	100.89	nL	-0.01
65) 4-BFB (surr)	13.162	95	2461408	98.97	nL	-0.01
Target Compounds						Qvalue
4) Propene (coelute w/Pro...	3.516	41	41555	0.22	nL	# 95
5) Dichlorodifluoromethane...	3.573	85	50177	0.10	nL	98
7) Freon 114(12dichloro-1...	3.755	85	50807m	0.10	nL	
8) chloromethane (coelute...	3.744	50	43649m	0.19	nL	
9) vinyl chloride (HIAL= ...	3.892	62	18329	0.09	nL	95
10) 1.3-Butadiene	3.971	54	10570	0.08	nL	90
11) bromomethane	4.188	96	10319	0.10	nL	95
12) chloroethane	4.290	64	6217	0.09	nL	# 93
13) Trichlorofluoromethane...	4.655	101	35139	0.10	nL	98
14) 1,1-dichloroethene	5.087	96	23299	0.07	nL	# 76
15) methylene dichloride	5.315	84	36800	Below	Cal	# 64
16) carbon disulfide	5.463	76	79266	Below	Cal	# 97
17) Freon-113 (Trichlorotr...	5.190	101	48058	Below	Cal	# 89
19) trans-1,2-dichloroethene	5.816	96	24425	0.10	nL	# 73
20) vinyl acetate	5.999	43	55262	0.10	nL	# 90
21) MTBE	5.828	73	71531	0.10	nL	# 87
23) 1,2-Dichloroethane (HI...	7.399	62	30353	0.10	nL	# 92
24) 1,1-dichloroethane	6.021	63	42437	0.10	nL	# 97
25) 2-butanone (MEK)	6.261	72	21945m	0.13	nL	
26) OXY-DIISOPROPYL ETHER	6.329	45	77835	0.10	nL	# 89
27) cis-1,2-dichloroethene	6.522	96	26727	0.10	nL	# 65
29) Chloroform (HIAL= 0.045)	6.807	83	48546	0.11	nL	94
30) Ethyl Acetate	6.545	43	61046	0.12	nL	# 75
31) OXY-ETBE	6.693	59	79256	0.10	nL	# 91
32) THF	6.933	42	58520m	0.16	nL	
33) Cyclohexane	7.696	56	44943	0.11	nL	# 77
34) Hexane	6.306	57	53434	0.12	nL	# 94
35) p-Dioxane	8.527	88	18982	0.11	nL	# 80
36) 1,1,1-Trichloroethane	7.286	97	49128	0.10	nL	97
37) benzene (HIAL= 0.013)	7.627	78	84714	0.11	nL	# 92
38) carbon tetrachloride (...	7.650	117	49746	0.11	nL	98
40) OXY-TAME	7.866	73	84332	0.11	nL	# 86
41) Heptane	8.276	43	54367	0.13	nL	# 83
42) trichloroethene	8.390	130	39244	0.11	nL	95
43) 1,2-dichloropropane (H...	8.436	63	29318	0.11	nL	95
44) bromdichmet (HSGI= 0.1...	8.641	83	49113	0.10	nL	99
45) 4-methyl-2-pentanone (...	9.119	43	63443	0.11	nL	# 92
46) cis-1,3-dichloropropen...	9.199	75	47714	0.10	nL	98
48) toluene	9.860	92	66400	0.10	nL	99
49) 1,1,2-trichloroethane ...	9.985	97	34372	0.11	nL	# 86
50) trans-1,3-dichloroprop...	9.734	75	42147	0.10	nL	94
51) 2-hexanone (MBK)	10.133	43	61198	0.11	nL	# 92
52) dibromochloromethane (...	10.600	127	36833	0.10	nL	96
53) tetrachloroethene (HIA...	10.736	164	45045	0.11	nL	97
54) EDB (HIAL= 0.0022)	10.828	107	52749	0.10	nL	98
55) chlorobenzene	11.591	112	85962	0.11	nL	# 89

Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 11131206.D  
 Acq On : 14 Nov 2012 12:09 pm  
 Operator :  
 Sample : 0.1  
 Misc : TO15\_SOILGAS (Sig #1); (Sig #2)  
 ALS Vial : 13 Sample Multiplier: 1

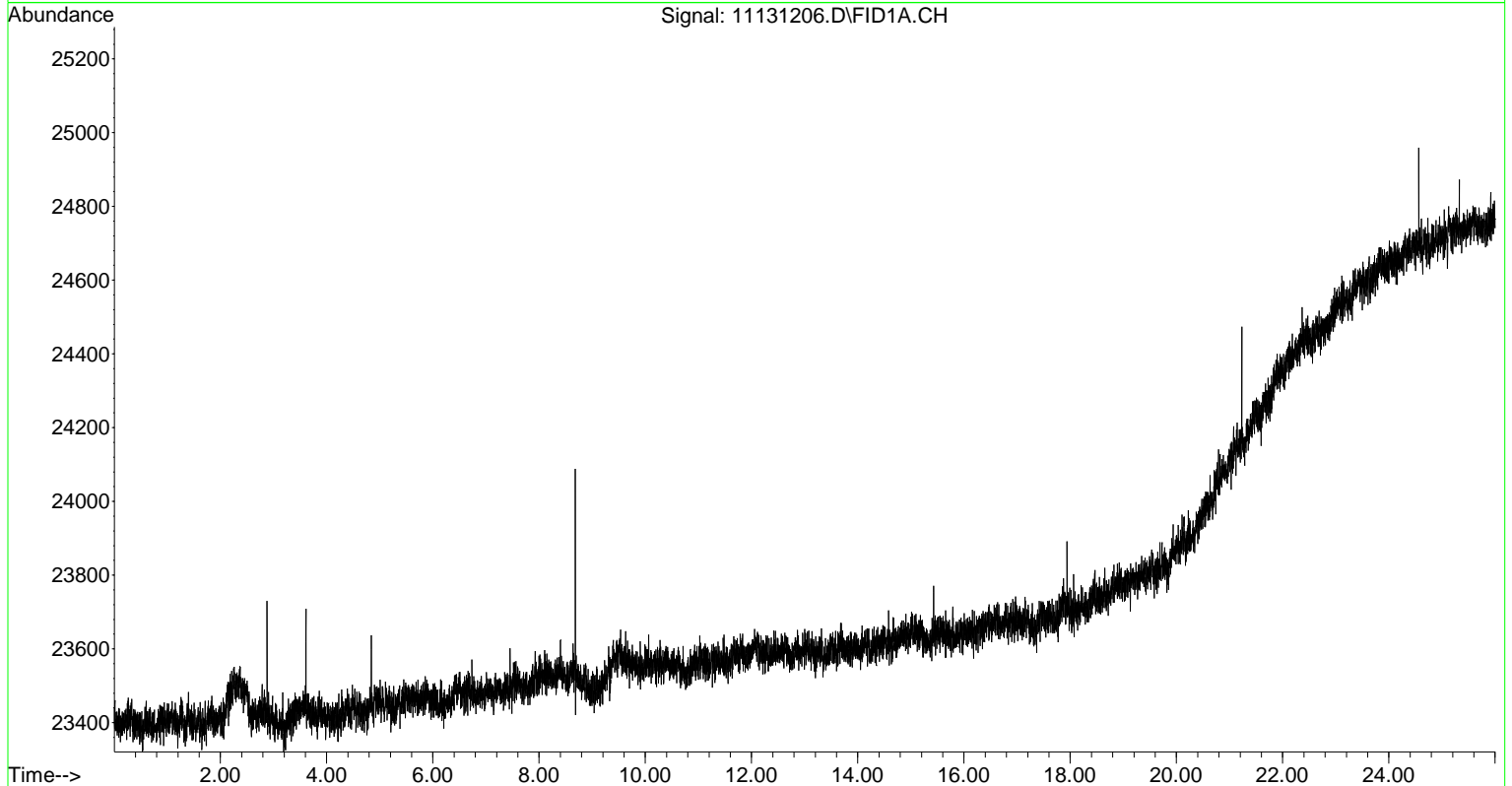
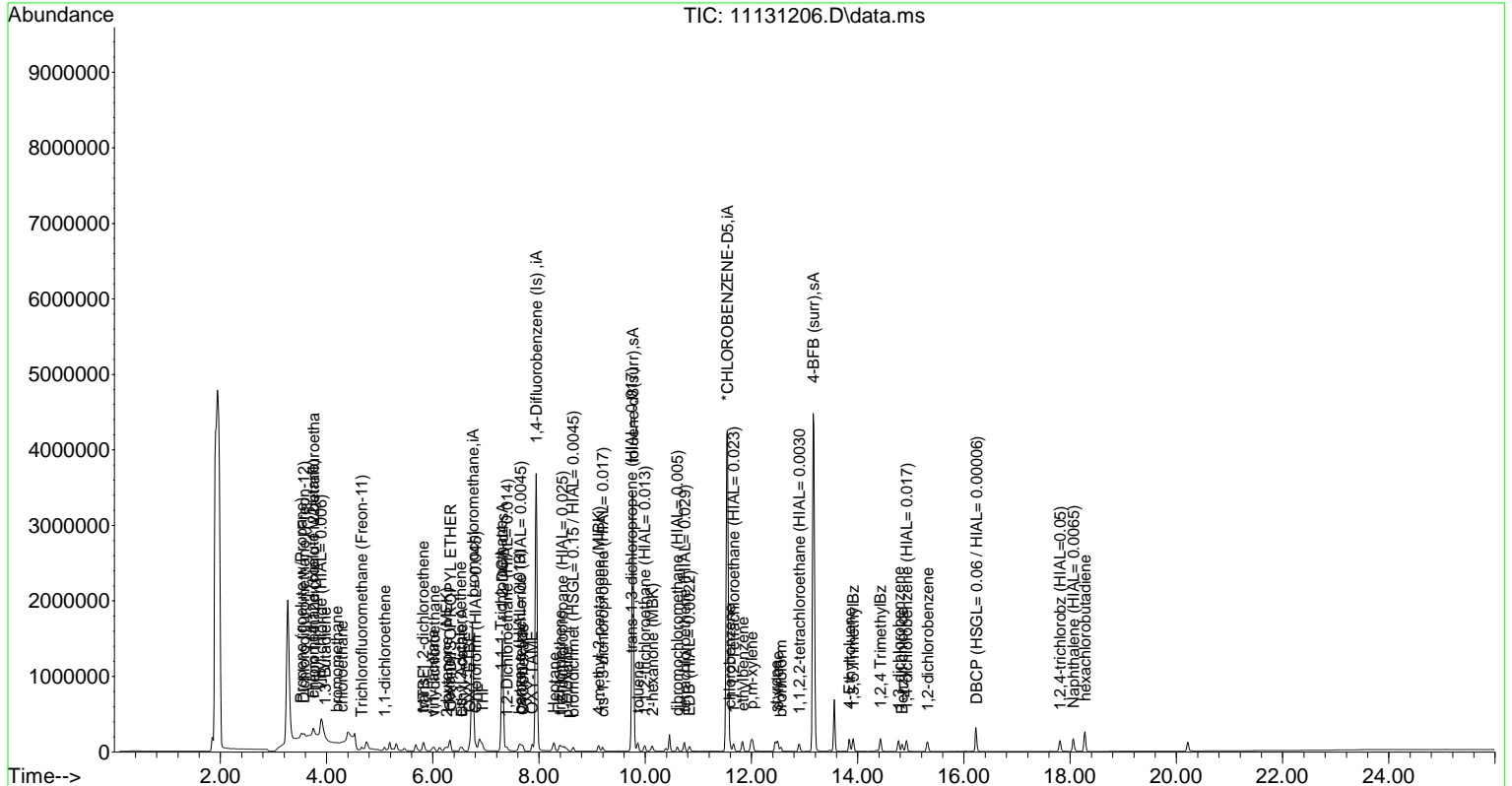
Quant Time: Apr 12 16:41:12 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 12 16:25:09 2013  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) ethylbenzene	11.830	91	140080	0.11	nL	98
58) p,m-xylene	12.001	106	115793	0.22	nL	93
59) styrene	12.456	104	86509	0.07	nL	97
60) o-xylene	12.490	91	121495	0.12	nL	95
61) bromoform	12.547	173	38257	0.09	nL	# 95
62) 4-Ethyltoluene	13.846	105	164952	0.10	nL	98
63) 1,1,2,2-tetrachloroeth...	12.900	83	73426	0.10	nL	# 97
64) 1,1,1,2-Tetrachloroeth...	11.659	131	40915	0.11	nL	# 72
66) Benzyl chloride	14.837	91	107850	0.10	nL	95
67) 1,3,5 TrimethylBz	13.914	105	137913	0.12	nL	96
68) 1,2,4 TrimethylBz	14.427	105	143192	0.12	nL	96
69) 1,3-dichlorobenzene	14.768	146	101184	0.06	nL	96
70) 1,4-dichlorobenzene (H...	14.916	146	103342	0.06	nL	# 95
71) 1,2-dichlorobenzene	15.315	146	95248	0.06	nL	# 95
72) DBCP (HSGL= 0.06 / HIA...	16.237	157	27378	0.09	nL	# 95
73) 1,2,4-trichlorobz (HIA...	17.809	180	82740	0.10	nL	97
74) Naphthalene (HIAL= 0.0...	18.060	128	245239	0.20	nL	98
75) hexachlorobutadiene	18.276	225	86713	0.10	nL	# 91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 11131206.D  
 Acq On : 14 Nov 2012 12:09 pm  
 Operator :  
 Sample : 0.1  
 Misc : TO15\_SOILGAS (Sig #1); (Sig #2)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 12 16:41:12 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 12 16:25:09 2013  
 Response via : Initial Calibration



Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 11131207.D  
 Acq On : 14 Nov 2012 12:49 pm  
 Operator :  
 Sample : 0.25  
 Misc : TO15\_SOILGAS (Sig #1); (Sig #2)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 12 16:42:23 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 12 16:25:09 2013  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) bromochloromethane	6.750	130	1074052	50.00	nL	-0.02	
39) 1,4-Difluorobenzene (Is)	7.946	114	4380254	50.00	nL	-0.02	
56) *CHLOROBENZENE-D5	11.545	117	4065351	50.00	nL	-0.01	
76) bromochloromethane	0.000	130	0m	50.00	nL	-6.67	
System Monitoring Compounds							
22) 1,2-DCA-d4	7.308	65	1118105	104.36	nL	-0.03	
47) toluene-d8(surr)	9.768	98	3568644	100.73	nL	-0.01	
65) 4-BFB (surr)	13.162	95	2538367	99.14	nL	-0.01	
Target Compounds							
4) Propene (coelute w/Pro...	3.516	41	62511	0.33	nL	#	95
5) Dichlorodifluoromethane...	3.561	85	119439	0.23	nL	#	97
7) Freon 114(12dichloro-1...	3.732	85	120516	0.23	nL	#	92
8) chloromethane (coelute...	3.732	50	74366m	0.28	nL	#	96
9) vinyl chloride (HIAL= ...	3.880	62	45090	0.22	nL	#	96
10) 1.3-Butadiene	3.960	54	27857	0.21	nL	#	92
11) bromomethane	4.188	96	23237	0.22	nL	#	99
12) chloroethane	4.279	64	17622	0.24	nL	#	91
13) Trichlorofluoromethane...	4.655	101	85853	0.25	nL	#	99
14) 1,1-dichloroethene	5.087	96	57559	0.34	nL	#	74
15) methylene dichloride	5.315	84	70584	0.16	nL	#	65
16) carbon disulfide	5.463	76	196779m	Below	Cal		
17) Freon-113 (Trichlorotr...	5.178	101	116314	0.24	nL	#	95
18) Acrylonitrile	5.144	53	42572	0.32	nL	#	98
19) trans-1,2-dichloroethene	5.805	96	61114	0.25	nL	#	75
20) vinyl acetate	5.987	43	139242	0.25	nL	#	92
21) MTBE	5.816	73	176064	0.25	nL	#	89
23) 1,2-Dichloroethane (HI...	7.388	62	76025	0.24	nL	#	95
24) 1,1-dichloroethane	6.021	63	104993	0.25	nL	#	98
25) 2-butanone (MEK)	6.260	72	57815	0.34	nL	#	73
26) OXY-DIISOPROPYL ETHER	6.329	45	193714	0.25	nL	#	88
27) cis-1,2-dichloroethene	6.511	96	64503	0.25	nL	#	67
29) Chloroform (HIAL= 0.045)	6.807	83	115864	0.24	nL	#	96
30) Ethyl Acetate	6.545	43	137814	0.26	nL	#	77
31) OXY-ETBE	6.693	59	194390	0.24	nL	#	89
32) THF	6.932	42	100081	0.27	nL	#	82
33) Cyclohexane	7.695	56	104775	0.25	nL	#	78
34) Hexane	6.306	57	115228	0.26	nL	#	96
35) p-Dioxane	8.515	88	45774	0.25	nL	#	82
36) 1,1,1-Trichloroethane	7.285	97	120466	0.25	nL	#	98
37) benzene (HIAL= 0.013)	7.627	78	202526	0.25	nL	#	92
38) carbon tetrachloride (...	7.650	117	123147	0.26	nL	#	98
40) OXY-TAME	7.866	73	201229	0.25	nL	#	86
41) Heptane	8.276	43	120735	0.28	nL	#	81
42) trichloroethene	8.390	130	94373	0.25	nL	#	94
43) 1,2-dichloropropane (H...	8.436	63	70669	0.25	nL	#	97
44) bromdichmet (HSG= 0.1...	8.641	83	121355	0.25	nL	#	100
45) 4-methyl-2-pentanone (...	9.119	43	150993	0.26	nL	#	91
46) cis-1,3-dichloropropen...	9.199	75	114663	0.24	nL	#	98
48) toluene	9.859	92	155905	0.24	nL	#	94
49) 1,1,2-trichloroethane ...	9.985	97	82197	0.24	nL	#	89
50) trans-1,3-dichloroprop...	9.734	75	103830	0.24	nL	#	96
51) 2-hexanone (MBK)	10.121	43	144194	0.25	nL	#	95
52) dibromochloromethane (...	10.600	127	91735	0.24	nL	#	99
53) tetrachloroethene (HIA...	10.736	164	105810	0.25	nL	#	97
54) EDB (HIAL= 0.0022)	10.827	107	125761	0.24	nL	#	100

Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 11131207.D  
 Acq On : 14 Nov 2012 12:49 pm  
 Operator :  
 Sample : 0.25  
 Misc : TO15\_SOILGAS (Sig #1); (Sig #2)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 12 16:42:23 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 12 16:25:09 2013  
 Response via : Initial Calibration

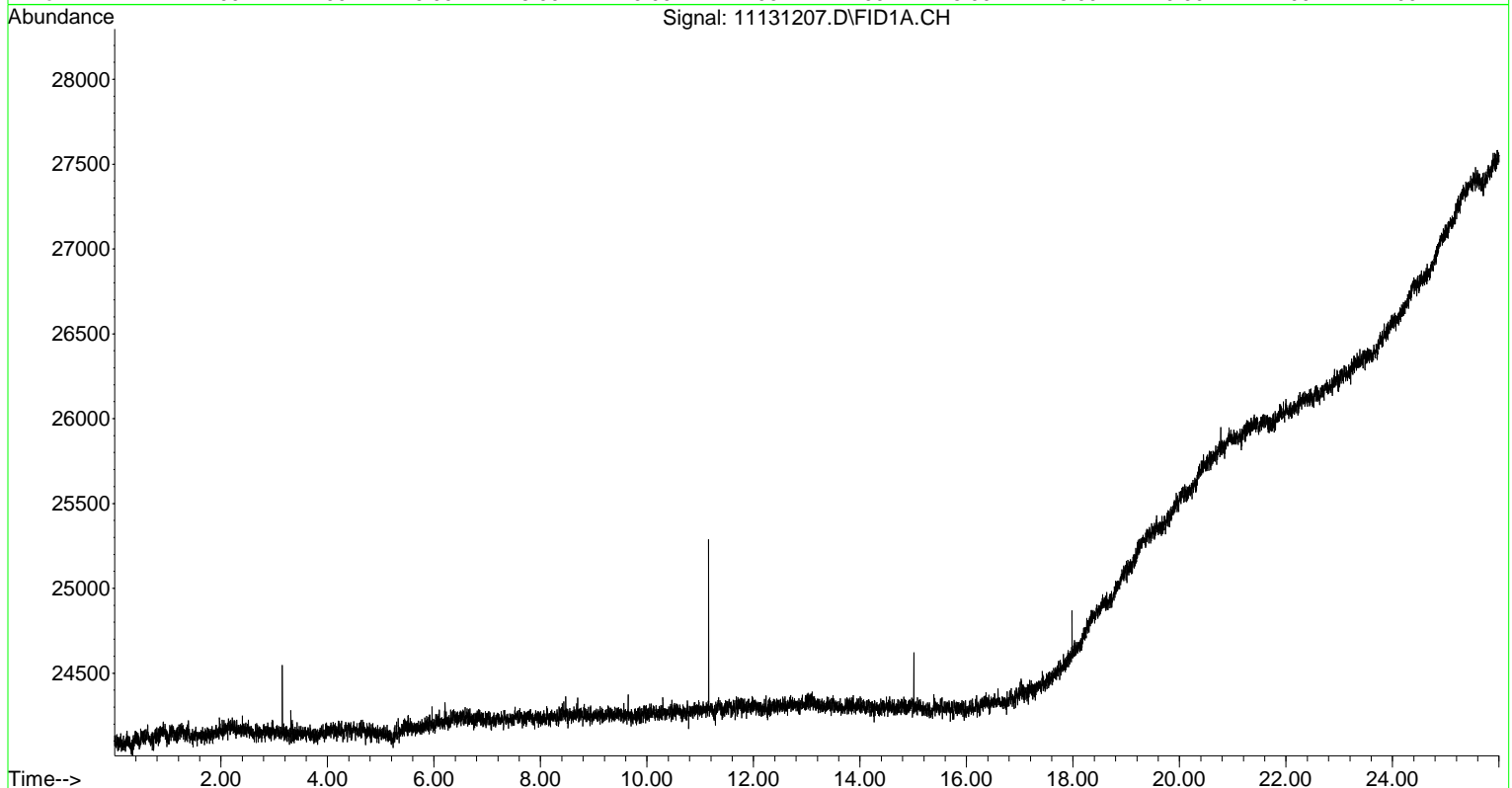
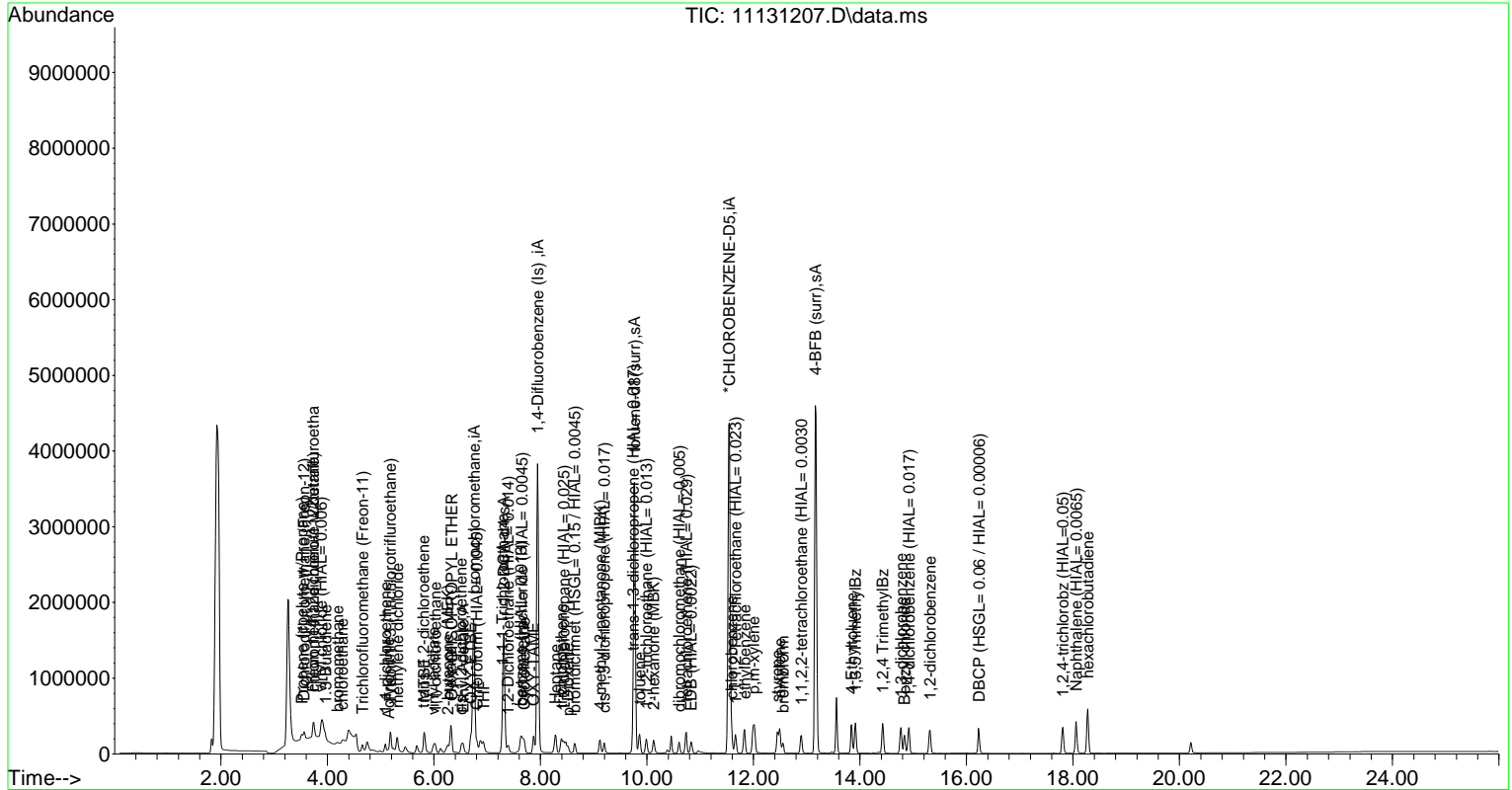
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) chlorobenzene	11.591	112	201554	0.25	nL	# 90
57) ethylbenzene	11.830	91	332571	0.25	nL	97
58) p,m-xylene	12.001	106	272753	0.51	nL	90
59) styrene	12.445	104	209075	0.21	nL	98
60) o-xylene	12.490	91	282853	0.27	nL	96
61) bromoform	12.547	173	96135	0.22	nL	# 98
62) 4-Ethyltoluene	13.846	105	389110	0.24	nL	97
63) 1,1,2,2-tetrachloroeth...	12.900	83	175167	0.24	nL	# 99
64) 1,1,1,2-Tetrachloroeth...	11.659	131	100070	0.26	nL	98
66) Benzyl chloride	14.836	91	273027	0.26	nL	# 95
67) 1,3,5 TrimethylBz	13.914	105	318789	0.27	nL	95
68) 1,2,4 TrimethylBz	14.426	105	331593	0.27	nL	96
69) 1,3-dichlorobenzene	14.768	146	237676	0.23	nL	96
70) 1,4-dichlorobenzene (H...	14.916	146	238400	0.23	nL	95
71) 1,2-dichlorobenzene	15.315	146	222580	0.22	nL	# 94
72) DBCP (HSGI= 0.06 / HIA...	16.237	157	68004	0.21	nL	# 99
73) 1,2,4-trichlorobz (HIA...	17.809	180	196601	0.24	nL	98
74) Naphthalene (HIAL= 0.0...	18.060	128	576885	0.47	nL	99
75) hexachlorobutadiene	18.276	225	190411	0.25	nL	# 92

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 11131207.D  
 Acq On : 14 Nov 2012 12:49 pm  
 Operator :  
 Sample : 0.25  
 Misc : TO15\_SOILGAS (Sig #1); (Sig #2)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 12 16:42:23 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 12 16:25:09 2013  
 Response via : Initial Calibration



Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 11131208.D  
 Acq On : 14 Nov 2012 1:30 pm  
 Operator :  
 Sample : 0.5  
 Misc : TO15\_SOILGAS (Sig #1); (Sig #2)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 12 16:43:24 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 12 16:25:09 2013  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) bromochloromethane	6.739	130	1071288	50.00	nL	-0.03	
39) 1,4-Difluorobenzene (Is)	7.946	114	4359154	50.00	nL	-0.02	
56) *CHLOROBENZENE-D5	11.545	117	4058571	50.00	nL	-0.01	
76) bromochloromethane	0.000	130	0m	50.00	nL	-6.67	
System Monitoring Compounds							
22) 1,2-DCA-d4	7.308	65	1139537	106.63	nL	-0.03	
47) toluene-d8(surr)	9.757	98	3599616	102.10	nL	-0.02	
65) 4-BFB (surr)	13.162	95	2571515	100.60	nL	-0.01	
Target Compounds							
							Qvalue
4) Propene (coelute w/Pro...	3.516	41	101187	0.53	nL	#	97
5) Dichlorodifluoromethane...	3.561	85	240022	0.46	nL	#	98
7) Freon 114(12dichloro-1...	3.744	85	240030m	0.46	nL		
8) chloromethane (coelute...	3.732	50	136892m	0.47	nL		
9) vinyl chloride (HIAL= ...	3.869	62	94705	0.46	nL		96
10) 1.3-Butadiene	3.949	54	59600	0.44	nL		93
11) bromomethane	4.176	96	47095	0.44	nL		99
12) chloroethane	4.279	64	35088	0.49	nL	#	91
13) Trichlorofluoromethane...	4.655	101	159570	0.46	nL		99
14) 1,1-dichloroethene	5.076	96	112611	0.80	nL	#	75
15) methylene dichloride	5.304	84	124829	0.44	nL	#	67
16) carbon disulfide	5.452	76	381628	Below Cal		#	95
17) Freon-113 (Trichlorotr...	5.179	101	225273	0.70	nL		92
18) Acrylonitrile	5.133	53	82978	0.82	nL		99
19) trans-1,2-dichloroethene	5.805	96	119054	0.49	nL	#	74
20) vinyl acetate	5.987	43	275371	0.49	nL	#	93
21) MTBE	5.816	73	342371	0.48	nL	#	87
23) 1,2-Dichloroethane (HI...	7.388	62	151624	0.48	nL	#	96
24) 1,1-dichloroethane	6.021	63	204318	0.48	nL	#	96
25) 2-butanone (MEK)	6.261	72	95289	0.57	nL	#	73
26) OXY-DIISOPROPYL ETHER	6.317	45	380118	0.48	nL	#	94
27) cis-1,2-dichloroethene	6.511	96	127717	0.49	nL	#	68
29) Chloroform (HIAL= 0.045)	6.807	83	226980	0.48	nL	#	96
30) Ethyl Acetate	6.545	43	259650	0.49	nL	#	78
31) OXY-ETBE	6.693	59	379888	0.47	nL	#	89
32) THF	6.921	42	167600	0.46	nL	#	84
33) Cyclohexane	7.696	56	197372	0.47	nL	#	75
34) Hexane	6.306	57	221195	0.49	nL	#	96
35) p-Dioxane	8.516	88	89235	0.49	nL	#	78
36) 1,1,1-Trichloroethane	7.286	97	237976	0.50	nL		98
37) benzene (HIAL= 0.013)	7.627	78	393772	0.49	nL	#	92
38) carbon tetrachloride (...	7.650	117	242435	0.51	nL		99
40) OXY-TAME	7.866	73	392401	0.48	nL	#	85
41) Heptane	8.276	43	226757	0.52	nL	#	79
42) trichloroethene	8.390	130	184151	0.49	nL		92
43) 1,2-dichloropropane (H...	8.436	63	138324	0.49	nL		93
44) bromdichmet (HSGI= 0.1...	8.641	83	240023	0.49	nL		99
45) 4-methyl-2-pentanone (...	9.108	43	287833	0.50	nL	#	92
46) cis-1,3-dichloropropen...	9.199	75	225523	0.48	nL		98
48) toluene	9.860	92	302588	0.46	nL		95
49) 1,1,2-trichloroethane ...	9.985	97	162056	0.49	nL	#	88
50) trans-1,3-dichloroprop...	9.723	75	206323	0.48	nL		98
51) 2-hexanone (MBK)	10.121	43	278466	0.48	nL	#	94
52) dibromochloromethane (...	10.600	127	185254	0.48	nL		99
53) tetrachloroethene (HIA...	10.736	164	202031	0.48	nL		96
54) EDB (HIAL= 0.0022)	10.828	107	245137	0.46	nL		98

Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 11131208.D  
 Acq On : 14 Nov 2012 1:30 pm  
 Operator :  
 Sample : 0.5  
 Misc : TO15\_SOILGAS (Sig #1); (Sig #2)  
 ALS Vial : 13 Sample Multiplier: 1

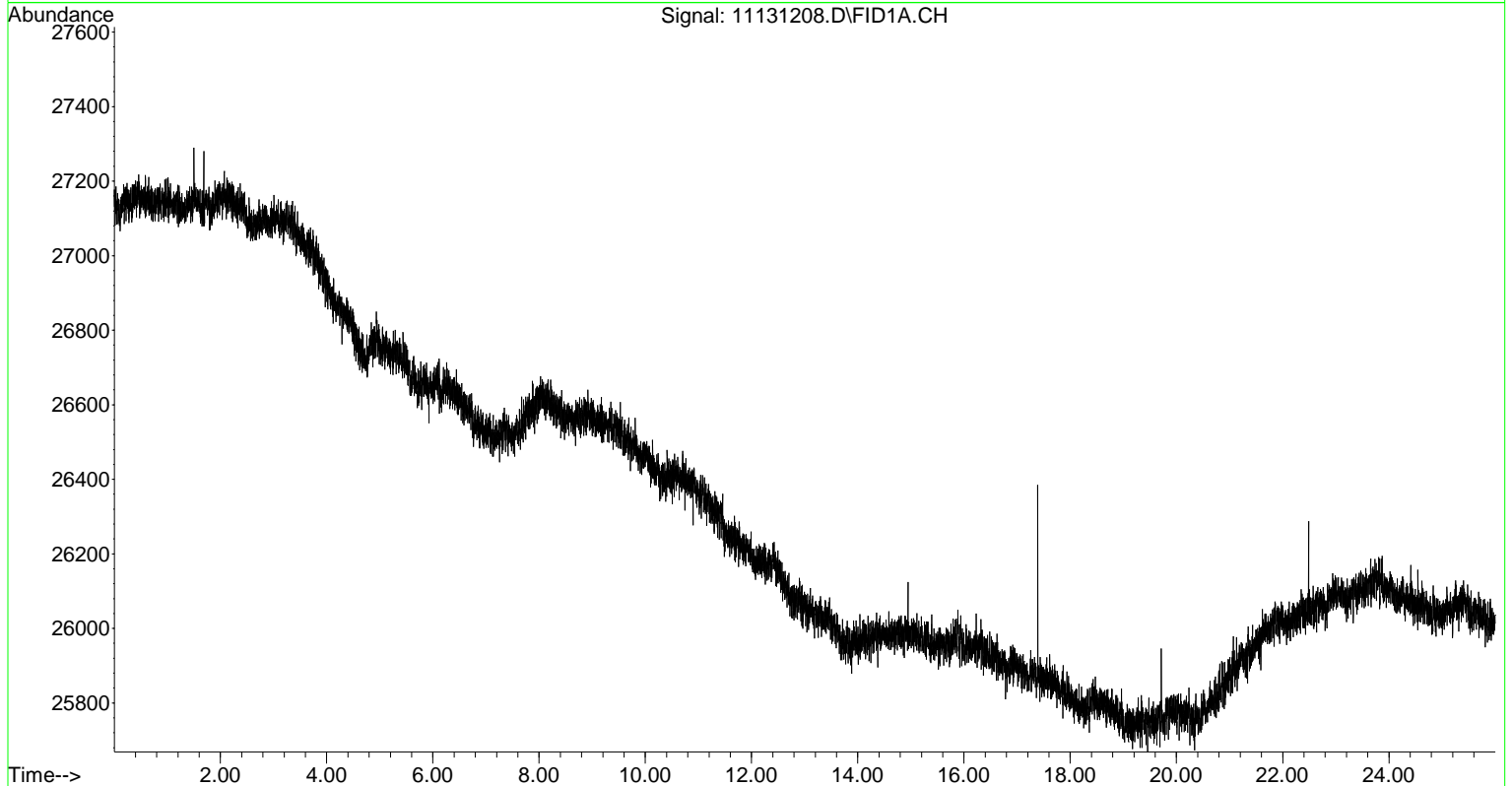
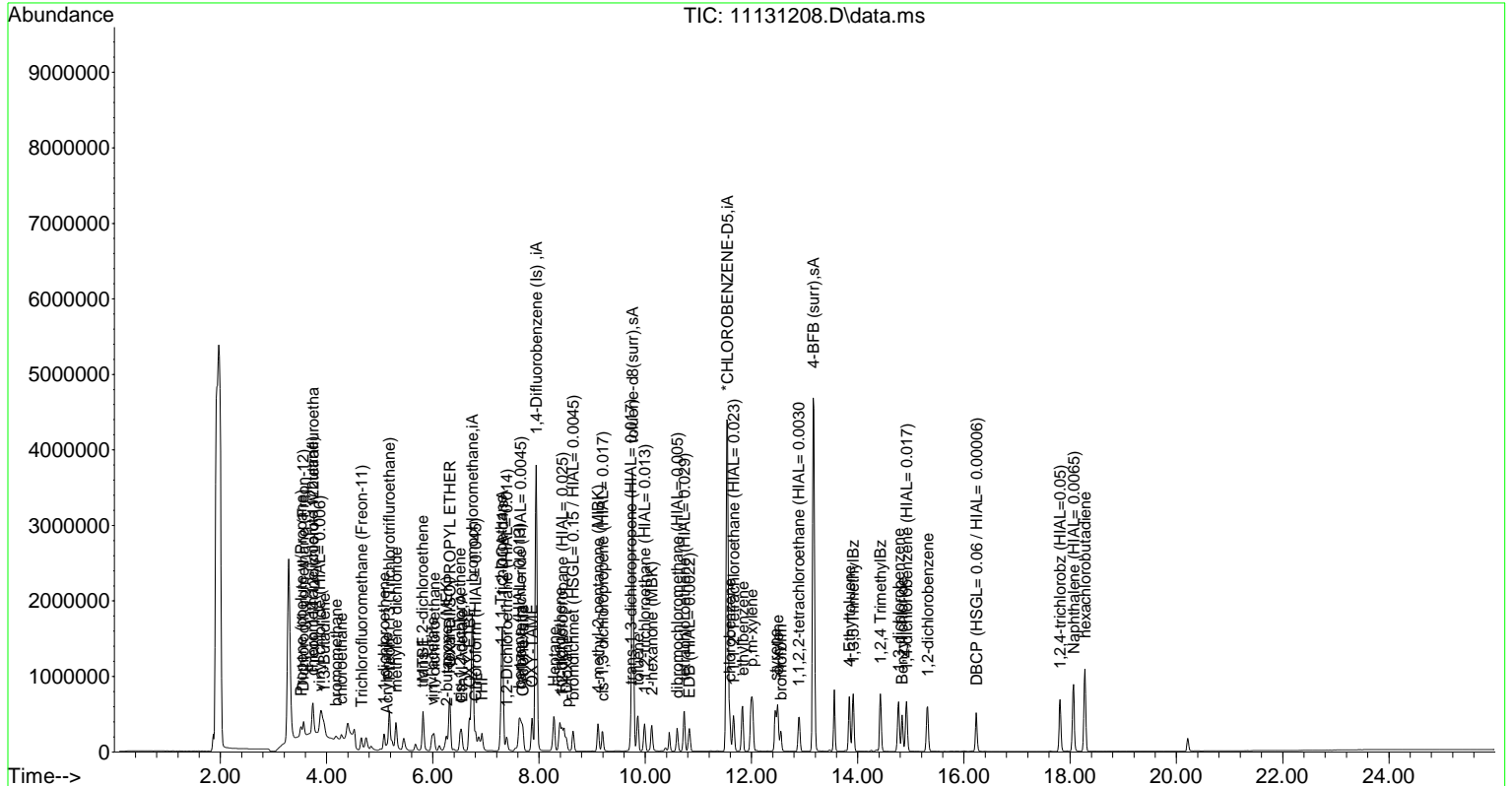
Quant Time: Apr 12 16:43:24 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 12 16:25:09 2013  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) chlorobenzene	11.591	112	389591	0.49	nL	# 91
57) ethylbenzene	11.830	91	643582	0.49	nL	97
58) p,m-xylene	12.001	106	524276	0.98	nL	91
59) styrene	12.445	104	410711	0.46	nL	97
60) o-xylene	12.490	91	544106	0.51	nL	94
61) bromoform	12.547	173	193025	0.45	nL	# 97
62) 4-Ethyltoluene	13.846	105	756016	0.48	nL	97
63) 1,1,2,2-tetrachloroeth...	12.889	83	341525	0.47	nL	98
64) 1,1,1,2-Tetrachloroeth...	11.659	131	196491	0.51	nL	99
66) Benzyl chloride	14.837	91	544336	0.51	nL	# 94
67) 1,3,5 TrimethylBz	13.914	105	608204	0.52	nL	94
68) 1,2,4 TrimethylBz	14.427	105	638647	0.53	nL	95
69) 1,3-dichlorobenzene	14.768	146	455975	0.50	nL	96
70) 1,4-dichlorobenzene (H...	14.916	146	455753	0.50	nL	96
71) 1,2-dichlorobenzene	15.315	146	429645	0.50	nL	# 94
72) DBCP (HSGI= 0.06 / HIA...	16.237	157	135337	0.41	nL	# 98
73) 1,2,4-trichlorobz (HIA...	17.809	180	384385	0.50	nL	96
74) Naphthalene (HIAL= 0.0...	18.060	128	1205235	0.98	nL	99
75) hexachlorobutadiene	18.276	225	356923	0.49	nL	# 91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 11131208.D  
 Acq On : 14 Nov 2012 1:30 pm  
 Operator :  
 Sample : 0.5  
 Misc : TO15\_SOILGAS (Sig #1); (Sig #2)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 12 16:43:24 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 12 16:25:09 2013  
 Response via : Initial Calibration



Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 11131209.D  
 Acq On : 14 Nov 2012 2:12 pm  
 Operator :  
 Sample : 1  
 Misc : TO15\_SOILGAS (Sig #1); (Sig #2)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 12 16:44:27 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 12 16:25:09 2013  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) bromochloromethane	6.750	130	1085563	50.00	nL	-0.02	
39) 1,4-Difluorobenzene (Is)	7.957	114	4417985	50.00	nL	-0.01	
56) *CHLOROBENZENE-D5	11.545	117	4107863	50.00	nL	-0.01	
76) bromochloromethane	0.000	130	0m	50.00	nL	-6.67	
System Monitoring Compounds							
22) 1,2-DCA-d4	7.320	65	1140333	105.30	nL	-0.02	
47) toluene-d8(surr)	9.780	98	3600812	100.77	nL	0.00	
65) 4-BFB (surr)	13.174	95	2576291	99.58	nL	0.00	
Target Compounds							
							Qvalue
4) Propene (coelute w/Pro...	3.345	41	170690	0.88	nL		98
5) Dichlorodifluoromethane...	3.413	85	470877m	0.90	nL		
7) Freon 114(12dichloro-1...	3.607	85	477526	0.90	nL		92
8) chloromethane (coelute...	3.595	50	247057	0.81	nL	#	30
9) vinyl chloride (HIAL= ...	3.744	62	199298	0.95	nL		95
10) 1.3-Butadiene	3.835	54	139419	1.02	nL		91
11) bromomethane	4.085	96	105522	0.97	nL		98
12) chloroethane	4.199	64	89704	1.23	nL	#	90
13) Trichlorofluoromethane...	4.586	101	313867	0.90	nL		99
14) 1,1-dichloroethene	5.042	96	114227	0.80	nL	#	73
15) methylene dichloride	5.281	84	228003	0.97	nL	#	66
16) carbon disulfide	5.418	76	732896	0.78	nL	#	95
17) Freon-113 (Trichlorotr...	5.144	101	412500	1.50	nL		95
18) Acrylonitrile	5.122	53	123998	1.32	nL		97
19) trans-1,2-dichloroethene	5.794	96	233191	0.95	nL	#	72
20) vinyl acetate	5.987	43	538577	0.94	nL	#	94
21) MTBE	5.805	73	659764	0.92	nL	#	88
23) 1,2-Dichloroethane (HI...	7.399	62	296186	0.93	nL	#	97
24) 1,1-dichloroethane	6.010	63	393951	0.91	nL	#	96
25) 2-butanone (MEK)	6.261	72	169640	0.99	nL	#	73
26) OXY-DIISOPROPYL ETHER	6.329	45	724111	0.91	nL	#	84
27) cis-1,2-dichloroethene	6.522	96	248351	0.93	nL	#	68
29) Chloroform (HIAL= 0.045)	6.819	83	448072	0.94	nL	#	95
30) Ethyl Acetate	6.545	43	494946	0.93	nL	#	73
31) OXY-ETBE	6.693	59	745803	0.92	nL	#	89
32) THF	6.932	42	322259m	0.87	nL		
33) Cyclohexane	7.707	56	392264	0.92	nL	#	77
34) Hexane	6.306	57	416724	0.92	nL	#	96
35) p-Dioxane	8.527	88	172119	0.92	nL	#	79
36) 1,1,1-Trichloroethane	7.297	97	466209	0.96	nL		97
37) benzene (HIAL= 0.013)	7.639	78	759794	0.94	nL	#	92
38) carbon tetrachloride (...)	7.661	117	474647	0.98	nL		100
40) OXY-TAME	7.878	73	763138	0.93	nL	#	85
41) Heptane	8.299	43	438579	1.00	nL	#	78
42) trichloroethene	8.402	130	356580	0.93	nL		92
43) 1,2-dichloropropane (H...	8.447	63	267769	0.93	nL		95
44) bromdichmet (HSG= 0.1...	8.652	83	474935	0.95	nL		100
45) 4-methyl-2-pentanone (...)	9.119	43	558330	0.95	nL	#	91
46) cis-1,3-dichloropropen...	9.210	75	444348	0.94	nL		98
48) toluene	9.871	92	588653	0.88	nL		94
49) 1,1,2-trichloroethane ...	9.996	97	315373	0.93	nL	#	88
50) trans-1,3-dichloroprop...	9.734	75	404778	0.94	nL		98
51) 2-hexanone (MBK)	10.133	43	539323	0.92	nL	#	93
52) dibromochloromethane (...)	10.611	127	365492	0.94	nL		97
53) tetrachloroethene (HIA...	10.748	164	393268	0.92	nL		97
54) EDB (HIAL= 0.0022)	10.839	107	479412	0.89	nL		98

Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 11131209.D  
 Acq On : 14 Nov 2012 2:12 pm  
 Operator :  
 Sample : 1  
 Misc : TO15\_SOILGAS (Sig #1); (Sig #2)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 12 16:44:27 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 12 16:25:09 2013  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) chlorobenzene	11.602	112	760027	0.94	nL	# 90
57) ethylbenzene	11.830	91	1242732	0.94	nL	97
58) p,m-xylene	12.001	106	1018200	1.88	nL	89
59) styrene	12.456	104	804165	0.94	nL	98
60) o-xylene	12.502	91	1046114	0.98	nL	94
61) bromoform	12.559	173	385754	0.89	nL	# 97
62) 4-Ethyltoluene	13.846	105	1450773	0.94	nL	96
63) 1,1,2,2-tetrachloroeth...	12.900	83	659428	0.90	nL	# 98
64) 1,1,1,2-Tetrachloroeth...	11.670	131	384471	0.98	nL	99
66) Benzyl chloride	14.837	91	1076304	1.00	nL	# 94
67) 1,3,5 TrimethylBz	13.914	105	1185439	1.00	nL	94
68) 1,2,4 TrimethylBz	14.427	105	1218939	0.99	nL	96
69) 1,3-dichlorobenzene	14.768	146	872758	1.01	nL	96
70) 1,4-dichlorobenzene (H...	14.916	146	874799	1.01	nL	96
71) 1,2-dichlorobenzene	15.315	146	827249	1.02	nL	95
72) DBCP (HSGI= 0.06 / HIA...	16.237	157	268888	0.81	nL	98
73) 1,2,4-trichlorobz (HIA...	17.809	180	720098	0.95	nL	97
74) Naphthalene (HIAL= 0.0...	18.060	128	2295099	1.84	nL	99
75) hexachlorobutadiene	18.276	225	680575	0.95	nL	# 93

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 11131212.D  
 Acq On : 14 Nov 2012 3:16 pm  
 Operator :  
 Sample : 2.5  
 Misc : TO15\_SOILGAS (Sig #1); (Sig #2)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 12 16:46:12 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 12 16:25:09 2013  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) bromochloromethane	6.750	130	1105208	50.00	nL	-0.02	
39) 1,4-Difluorobenzene (Is)	7.957	114	4411303	50.00	nL	-0.01	
56) *CHLOROENZENE-D5	11.545	117	4126327	50.00	nL	-0.01	
76) bromochloromethane	0.000	130	0m	50.00	nL	-6.67	
System Monitoring Compounds							
22) 1,2-DCA-d4	7.320	65	1106750	100.39	nL	-0.02	
47) toluene-d8(surr)	9.768	98	3589989	100.62	nL	-0.01	
65) 4-BFB (surr)	13.174	95	2578993	99.23	nL	0.00	
Target Compounds							
4) Propene (coelute w/Pro...	3.402	41	462083	2.35	nL	#	98
5) Dichlorodifluoromethane...	3.470	85	1348306	2.52	nL	#	97
7) Freon 114(12dichloro-1...	3.664	85	1343090m	2.50	nL		
8) chloromethane (coelute...	3.641	50	722984m	2.69	nL		
9) vinyl chloride (HIAL= ...	3.789	62	586584	2.76	nL		96
10) 1.3-Butadiene	3.880	54	420686	3.03	nL		93
11) bromomethane	4.119	96	286509	2.58	nL		99
12) chloroethane	4.233	64	215962	2.90	nL	#	90
13) Trichlorofluoromethane...	4.620	101	838927	2.37	nL		98
14) 1,1-dichloroethene	5.065	96	309038	2.48	nL	#	71
15) methylene dichloride	5.292	84	626145	2.96	nL	#	66
16) carbon disulfide	5.429	76	2149224	4.00	nL	#	94
17) Freon-113 (Trichlorotr...	5.167	101	646775	2.53	nL	#	85
18) Acrylonitrile	5.122	53	240885m	2.77	nL		
19) trans-1,2-dichloroethene	5.805	96	669033	2.68	nL	#	70
20) vinyl acetate	5.987	43	1566265	2.69	nL	#	95
21) MTBE	5.816	73	1855518	2.53	nL	#	88
23) 1,2-Dichloroethane (HI...	7.399	62	838873	2.58	nL	#	95
24) 1,1-dichloroethane	6.021	63	1128596	2.57	nL	#	95
25) 2-butanone (MEK)	6.260	72	401202	2.31	nL	#	73
26) OXY-DIISOPROPYL ETHER	6.329	45	2137485	2.64	nL	#	82
27) cis-1,2-dichloroethene	6.522	96	720720	2.66	nL	#	69
29) Chloroform (HIAL= 0.045)	6.819	83	1275004	2.62	nL	#	94
30) Ethyl Acetate	6.545	43	1395889	2.57	nL	#	68
31) OXY-ETBE	6.693	59	2209754	2.66	nL	#	89
32) THF	6.932	42	866117	2.29	nL	#	82
33) Cyclohexane	7.695	56	1076028	2.48	nL	#	75
34) Hexane	6.306	57	1154000	2.49	nL	#	95
35) p-Dioxane	8.527	88	479409	2.53	nL	#	76
36) 1,1,1-Trichloroethane	7.297	97	1326190	2.68	nL	#	96
37) benzene (HIAL= 0.013)	7.639	78	2132559	2.58	nL	#	92
38) carbon tetrachloride (...	7.661	117	1368820	2.76	nL		98
40) OXY-TAME	7.878	73	2237249	2.73	nL	#	85
41) Heptane	8.288	43	1203992	2.74	nL	#	76
42) trichloroethene	8.402	130	1007676	2.63	nL		92
43) 1,2-dichloropropane (H...	8.436	63	761526	2.65	nL		97
44) bromdichmet (HSGI= 0.1...	8.652	83	1393451	2.80	nL		98
45) 4-methyl-2-pentanone (...	9.119	43	1553319	2.64	nL	#	86
46) cis-1,3-dichloropropen...	9.199	75	1259789	2.66	nL		98
48) toluene	9.859	92	1661995	2.50	nL		92
49) 1,1,2-trichloroethane ...	9.996	97	897589	2.66	nL	#	86
50) trans-1,3-dichloroprop...	9.734	75	1170527	2.72	nL		95
51) 2-hexanone (MBK)	10.121	43	1493780	2.56	nL	#	92
52) dibromochloromethane (...	10.611	127	1159801	2.97	nL		98
53) tetrachloroethene (HIA...	10.736	164	1090109	2.56	nL		98
54) EDB (HIAL= 0.0022)	10.839	107	1352234	2.53	nL		96



Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 11131212.D  
 Acq On : 14 Nov 2012 3:16 pm  
 Operator :  
 Sample : 2.5  
 Misc : TO15\_SOILGAS (Sig #1); (Sig #2)  
 ALS Vial : 9 Sample Multiplier: 1

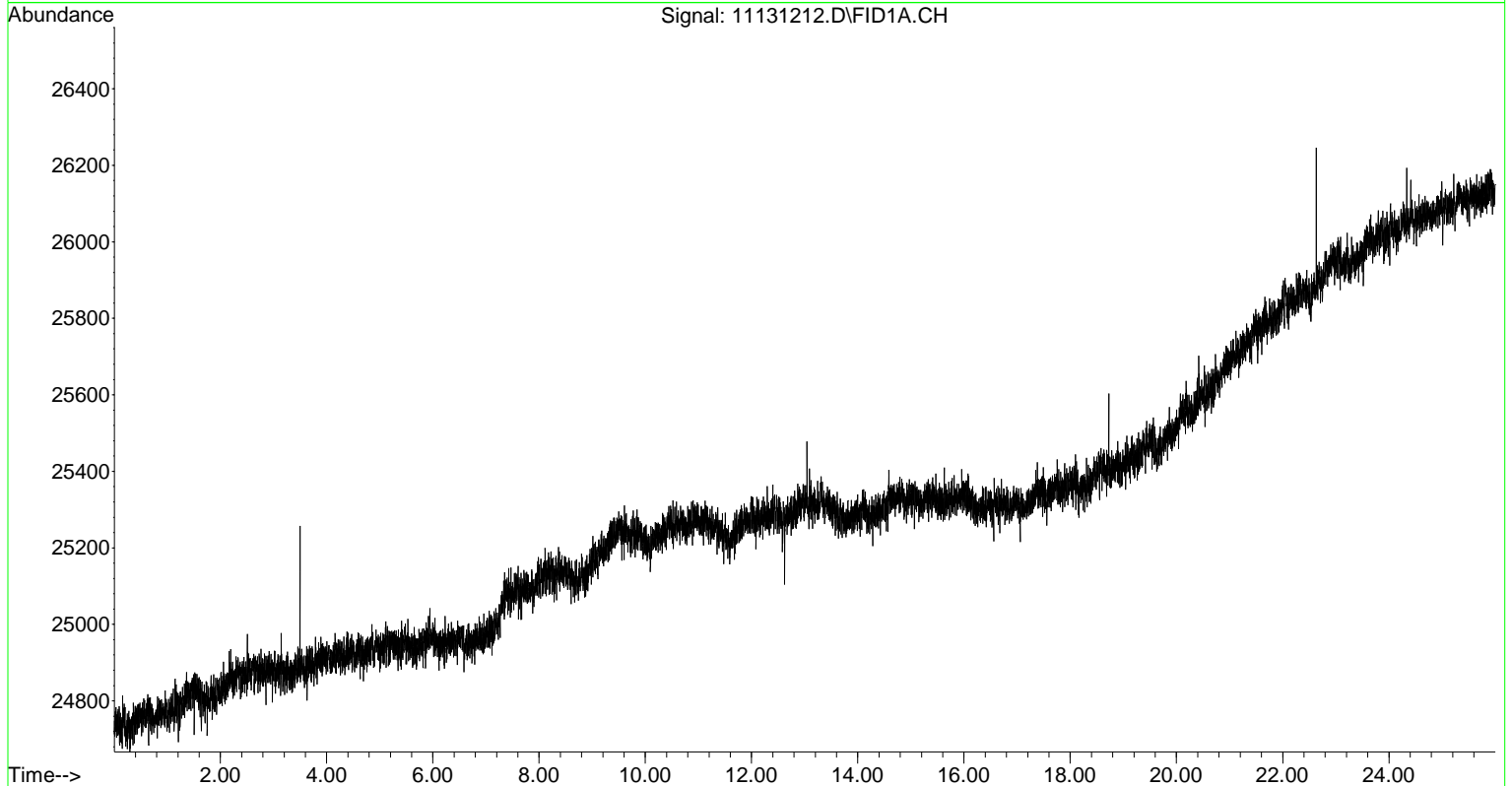
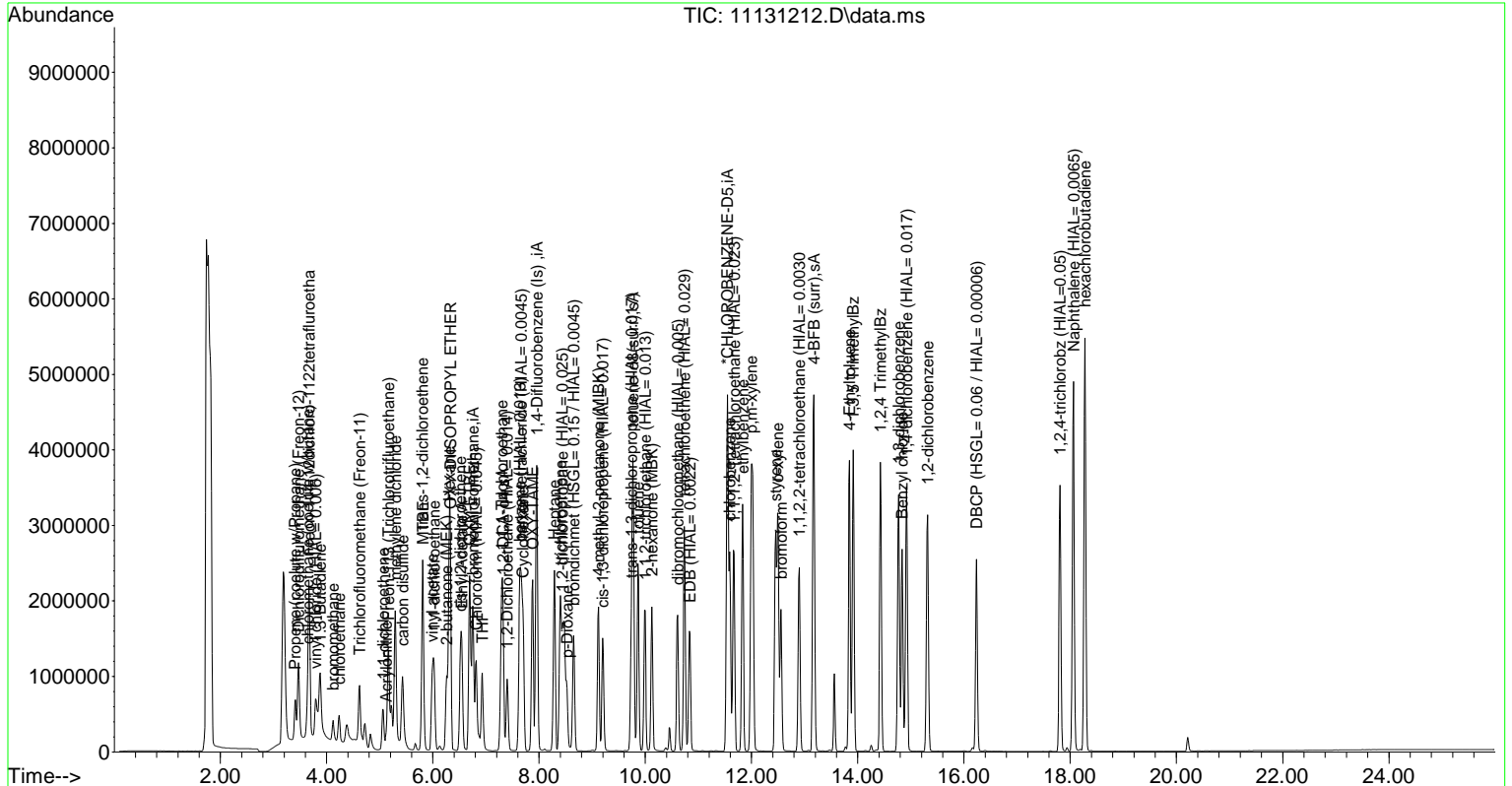
Quant Time: Apr 12 16:46:12 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 12 16:25:09 2013  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) chlorobenzene	11.591	112	2129208	2.64	nL	# 93
57) ethylbenzene	11.830	91	3399532	2.56	nL	95
58) p,m-xylene	12.001	106	2825445	5.20	nL	87
59) styrene	12.456	104	2262151	2.80	nL	97
60) o-xylene	12.490	91	2926202	2.72	nL	93
61) bromoform	12.559	173	1442161	3.30	nL	# 97
62) 4-Ethyltoluene	13.846	105	3847975	2.66	nL	95
63) 1,1,2,2-tetrachloroeth...	12.900	83	1809252	2.46	nL	# 95
64) 1,1,1,2-Tetrachloroeth...	11.670	131	1171444	2.98	nL	99
66) Benzyl chloride	14.836	91	2977694	2.76	nL	# 94
67) 1,3,5 TrimethylBz	13.914	105	3132981	2.63	nL	93
68) 1,2,4 TrimethylBz	14.426	105	3235448	2.62	nL	94
69) 1,3-dichlorobenzene	14.768	146	2321225	2.81	nL	96
70) 1,4-dichlorobenzene (H...	14.916	146	2339905	2.81	nL	96
71) 1,2-dichlorobenzene	15.315	146	2185072	2.80	nL	95
72) DBCP (HSGI= 0.06 / HIA...	16.237	157	1139792	3.40	nL	98
73) 1,2,4-trichlorobz (HIA...	17.809	180	1904641	2.65	nL	96
74) Naphthalene (HIAL= 0.0...	18.060	128	6421967	5.12	nL	97
75) hexachlorobutadiene	18.276	225	1760510	2.63	nL	# 92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 11131212.D  
 Acq On : 14 Nov 2012 3:16 pm  
 Operator :  
 Sample : 2.5  
 Misc : TO15\_SOILGAS (Sig #1); (Sig #2)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 12 16:46:12 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 12 16:25:09 2013  
 Response via : Initial Calibration



Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 11131219.D  
 Acq On : 14 Nov 2012 8:20 pm  
 Operator :  
 Sample : 5nL (Sig #1); lcs (Sig #2)  
 Misc : TO15\_SOILGAS  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 12 16:47:56 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 12 16:25:09 2013  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) bromochloromethane	6.750	130	939412	50.00	nL	-0.02	
39) 1,4-Difluorobenzene (Is)	7.957	114	3791852	50.00	nL	-0.01	
56) *CHLOROENZENE-D5	11.545	117	3572089	50.00	nL	-0.01	
76) bromochloromethane	0.000	130	0m	50.00	nL	-6.67	
System Monitoring Compounds							
22) 1,2-DCA-d4	7.320	65	937455	100.04	nL	-0.02	
47) toluene-d8(surr)	9.768	98	3149972	102.71	nL	-0.01	
65) 4-BFB (surr)	13.174	95	2259400	100.43	nL	0.00	
Target Compounds							
4) Propene (coelute w/Pro...	3.333	41	675895	4.04	nL		Qvalue # 99
5) Dichlorodifluoromethane...	3.402	85	1823819m	4.01	nL		
7) Freon 114(12dichloro-1...	3.607	85	1901286	4.16	nL		# 86
8) chloromethane (coelute...	3.573	50	891818m	Below	Cal		
9) vinyl chloride (HIAL= ...	3.732	62	848227	4.70	nL		95
10) 1.3-Butadiene	3.823	54	619916	5.26	nL		92
11) bromomethane	4.074	96	546170	5.79	nL		98
12) chloroethane	4.188	64	324506	5.13	nL	#	92
13) Trichlorofluoromethane...	4.586	101	1243462	4.12	nL		97
14) 1,1-dichloroethene	5.042	96	474816	5.03	nL	#	72
15) methylene dichloride	5.281	84	934447	5.35	nL	#	65
16) carbon disulfide	5.406	76	3267285	7.89	nL	#	94
17) Freon-113 (Trichlorotr...	5.144	101	904571	4.69	nL	#	87
18) Acrylonitrile	5.110	53	358241	5.17	nL		98
19) trans-1,2-dichloroethene	5.793	96	1023766	4.83	nL	#	70
20) vinyl acetate	5.987	43	2444912	4.94	nL	#	94
21) MTBE	5.805	73	2806699	4.50	nL	#	88
23) 1,2-Dichloroethane (HI...	7.399	62	1265397	4.59	nL	#	95
24) 1,1-dichloroethane	6.010	63	1735599	4.65	nL	#	95
25) 2-butanone (MEK)	6.260	72	613158	4.15	nL	#	73
26) OXY-DIISOPROPYL ETHER	6.329	45	3209073	4.66	nL	#	78
27) cis-1,2-dichloroethene	6.522	96	1105199	4.80	nL	#	69
29) Chloroform (HIAL= 0.045)	6.818	83	1926768	4.65	nL	#	93
30) Ethyl Acetate	6.545	43	2148303	4.65	nL	#	68
31) OXY-ETBE	6.693	59	3335876	4.73	nL	#	88
32) THF	6.932	42	1298927	4.04	nL	#	82
33) Cyclohexane	7.695	56	1645565	4.46	nL	#	76
34) Hexane	6.306	57	1736019	4.41	nL	#	95
35) p-Dioxane	8.527	88	737646	4.57	nL	#	78
36) 1,1,1-Trichloroethane	7.297	97	1974191	4.70	nL	#	96
37) benzene (HIAL= 0.013)	7.638	78	3206273	4.57	nL	#	92
38) carbon tetrachloride (...	7.661	117	1998517	4.75	nL		98
40) OXY-TAME	7.878	73	3369793	4.78	nL	#	85
41) Heptane	8.288	43	1814518	4.80	nL	#	76
42) trichloroethene	8.402	130	1495033	4.54	nL		93
43) 1,2-dichloropropane (H...	8.447	63	1170189	4.74	nL		95
44) bromdichmet (HSGI= 0.1...	8.652	83	2097921	4.91	nL		97
45) 4-methyl-2-pentanone (...	9.119	43	2372071	4.69	nL	#	86
46) cis-1,3-dichloropropen...	9.210	75	1926988	4.73	nL		96
48) toluene	9.871	92	2512159	4.40	nL		91
49) 1,1,2-trichloroethane ...	9.996	97	1363023	4.69	nL	#	88
50) trans-1,3-dichloroprop...	9.734	75	1791903	4.84	nL		95
51) 2-hexanone (MBK)	10.121	43	2284846	4.56	nL	#	92
52) dibromochloromethane (...	10.611	127	1722728	5.14	nL		98
53) tetrachloroethene (HIA...	10.736	164	1606858	4.40	nL		99
54) EDB (HIAL= 0.0022)	10.839	107	2038632	4.43	nL		96

Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 11131219.D  
 Acq On : 14 Nov 2012 8:20 pm  
 Operator :  
 Sample : 5nL (Sig #1); lcs (Sig #2)  
 Misc : TO15\_SOILGAS  
 ALS Vial : 9 Sample Multiplier: 1

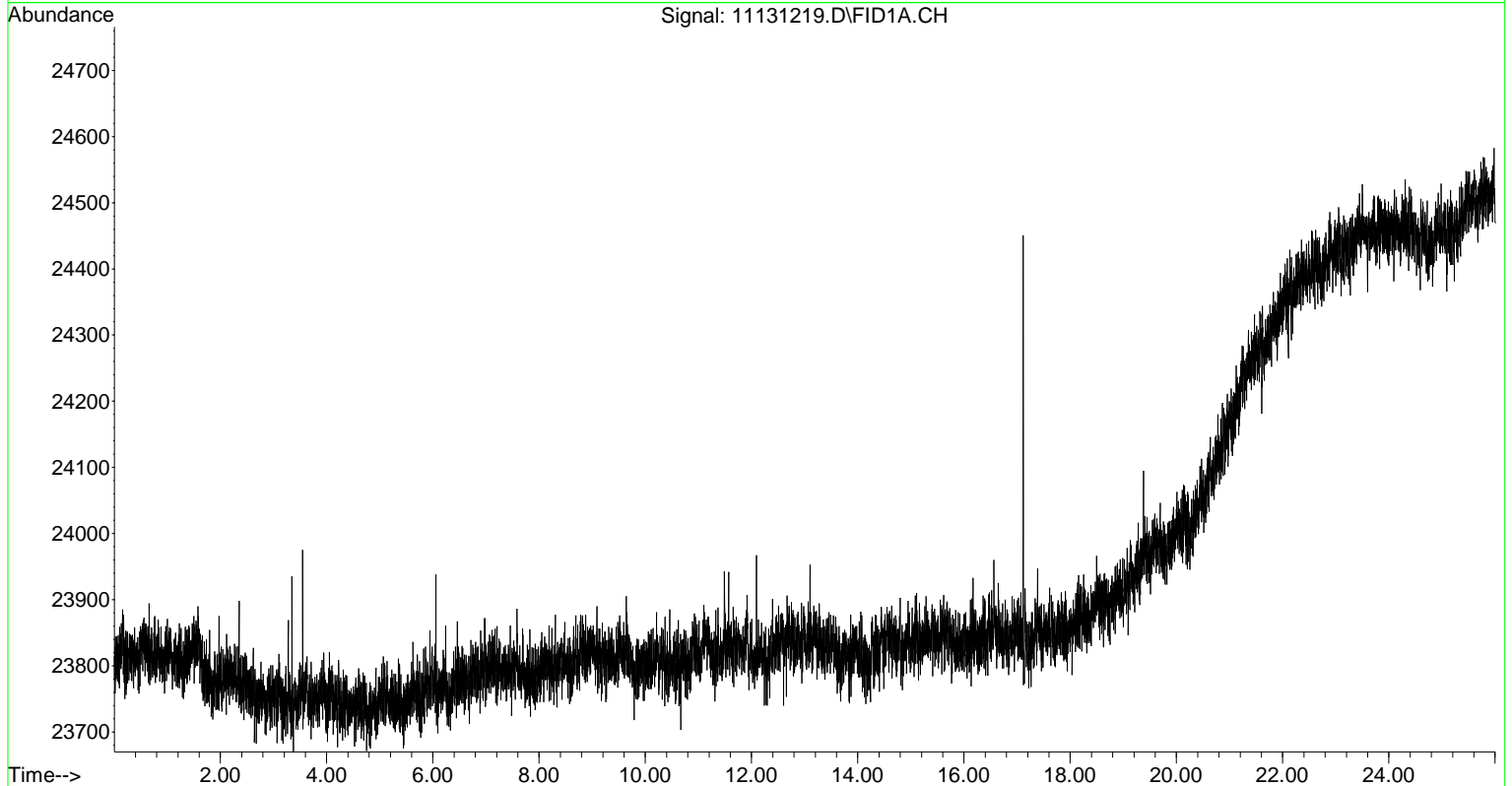
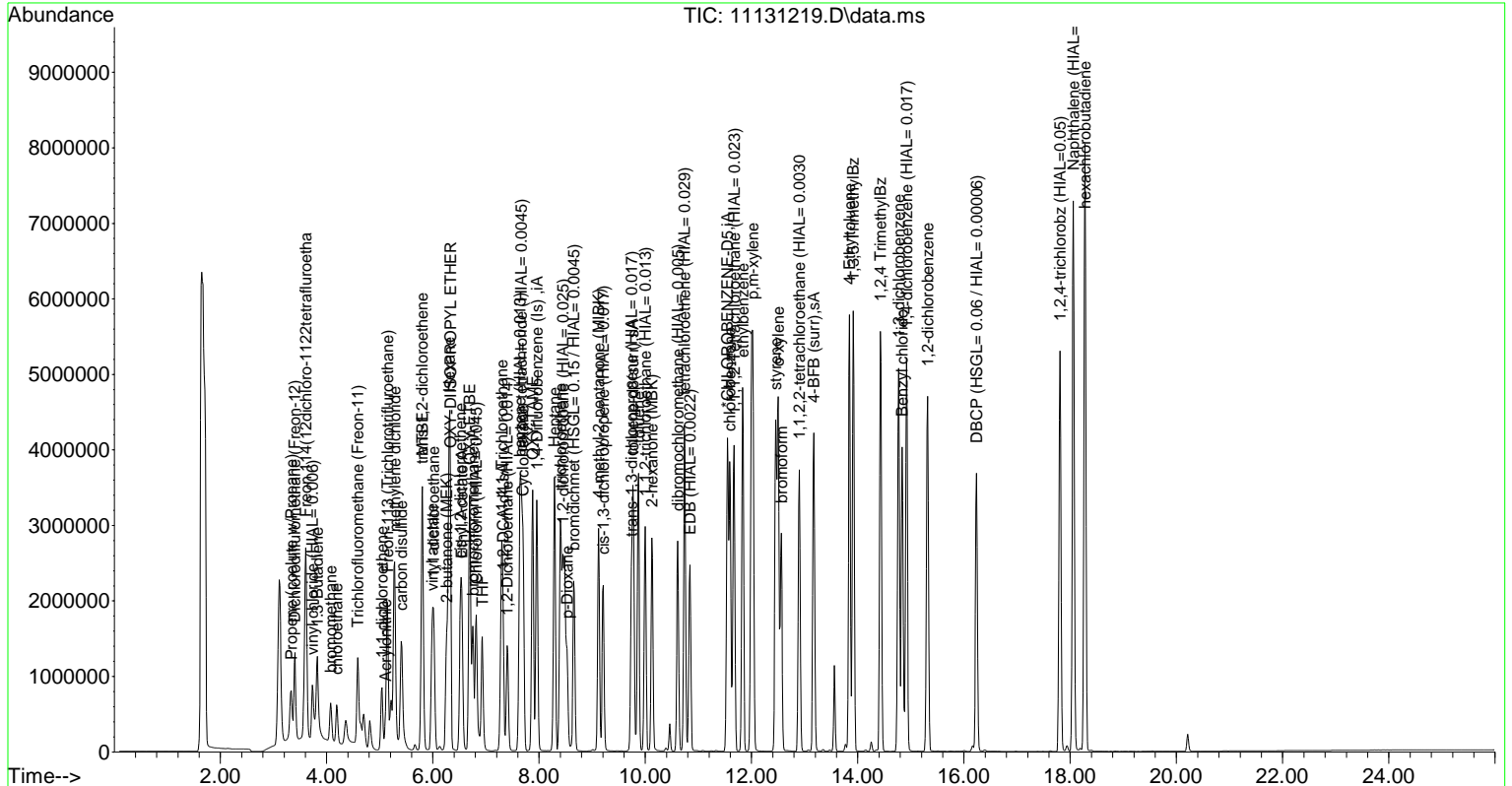
Quant Time: Apr 12 16:47:56 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 12 16:25:09 2013  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) chlorobenzene	11.591	112	3184743	4.59	nL	# 95
57) ethylbenzene	11.830	91	5054320	4.41	nL	94
58) p,m-xylene	12.023	106	4161232	8.85	nL	87
59) styrene	12.456	104	3396466	5.12	nL	99
60) o-xylene	12.502	91	4350324	4.66	nL	91
61) bromoform	12.559	173	2152775	5.69	nL	# 97
62) 4-Ethyltoluene	13.846	105	5616897	4.89	nL	94
63) 1,1,2,2-tetrachloroeth...	12.900	83	2747009	4.32	nL	# 96
64) 1,1,1,2-Tetrachloroeth...	11.670	131	1745024	5.13	nL	99
66) Benzyl chloride	14.836	91	4525085	4.84	nL	# 94
67) 1,3,5 TrimethylBz	13.914	105	4666532	4.52	nL	93
68) 1,2,4 TrimethylBz	14.426	105	4784325	4.48	nL	93
69) 1,3-dichlorobenzene	14.768	146	3429474	4.85	nL	96
70) 1,4-dichlorobenzene (H...	14.916	146	3453325	4.85	nL	96
71) 1,2-dichlorobenzene	15.315	146	3233558	4.85	nL	96
72) DBCP (HSGI= 0.06 / HIA...	16.237	157	1730760	5.96	nL	98
73) 1,2,4-trichlorobz (HIA...	17.809	180	2836101	4.89	nL	97
74) Naphthalene (HIAL= 0.0...	18.060	128	9403760	8.67	nL	# 95
75) hexachlorobutadiene	18.276	225	2617441	4.91	nL	# 92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 11131219.D  
 Acq On : 14 Nov 2012 8:20 pm  
 Operator :  
 Sample : 5nL (Sig #1); lcs (Sig #2)  
 Misc : TO15\_SOILGAS  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 12 16:47:56 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 12 16:25:09 2013  
 Response via : Initial Calibration



Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 11131214.D  
 Acq On : 14 Nov 2012 4:38 pm  
 Operator :  
 Sample : 10  
 Misc : TO15\_SOILGAS (Sig #1); (Sig #2)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 12 16:50:21 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 12 16:25:09 2013  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) bromochloromethane	6.762	130	1050414	50.00	nL	-0.01	
39) 1,4-Difluorobenzene (Is)	7.957	114	4130967	50.00	nL	-0.01	
56) *CHLOROENZENE-D5	11.545	117	3893546	50.00	nL	-0.01	
76) bromochloromethane	0.000	130	0m	50.00	nL	-6.67	
System Monitoring Compounds							
22) 1,2-DCA-d4	7.320	65	1031094	98.40	nL	-0.02	
47) toluene-d8(surr)	9.768	98	3426597	102.56	nL	-0.01	
65) 4-BFB (surr)	13.174	95	2491118	101.58	nL	0.00	
Target Compounds							
							Qvalue
9) vinyl chloride (HIAL= ...	3.846	62	979409	4.85	nL		95
10) 1.3-Butadiene	3.926	54	742207	5.63	nL		92
11) bromomethane	4.165	96	802627	7.61	nL		98
12) chloroethane	4.267	64	487177	6.89	nL	#	92
13) Trichlorofluoromethane...	4.655	101	1997025	5.92	nL		97
14) 1,1-dichloroethene	5.087	96	852285	9.99	nL	#	70
15) methylene dichloride	5.315	84	1867461	9.72	nL	#	63
16) carbon disulfide	5.452	76	6032949	13.64	nL	#	94
17) Freon-113 (Trichlorotr...	5.178	101	1683538	10.13	nL	#	88
18) Acrylonitrile	5.144	53	710971	10.00	nL		97
19) trans-1,2-dichloroethene	5.816	96	1999708	8.44	nL	#	69
20) vinyl acetate	5.999	43	4834103	8.73	nL	#	94
21) MTBE	5.828	73	5351137	7.67	nL	#	89
23) 1,2-Dichloroethane (HI...	7.411	62	2536698	8.22	nL	#	93
24) 1,1-dichloroethane	6.033	63	3386407	8.11	nL	#	93
25) 2-butanone (MEK)	6.272	72	1240643	7.52	nL	#	73
26) OXY-DIISOPROPYL ETHER	6.329	45	5890983	7.65	nL	#	87
27) cis-1,2-dichloroethene	6.534	96	2200764	8.56	nL	#	69
29) Chloroform (HIAL= 0.045)	6.819	83	3803307	8.21	nL	#	93
30) Ethyl Acetate	6.557	43	4159110	8.04	nL	#	65
31) OXY-ETBE	6.705	59	6331864	8.03	nL	#	87
32) THF	6.932	42	2498728	6.96	nL	#	81
33) Cyclohexane	7.696	56	3126871	7.58	nL	#	75
34) Hexane	6.317	57	3224330	7.33	nL	#	95
35) p-Dioxane	8.527	88	1525900	8.46	nL	#	77
36) 1,1,1-Trichloroethane	7.297	97	3833076	8.16	nL	#	94
37) benzene (HIAL= 0.013)	7.639	78	6096912	7.76	nL	#	92
38) carbon tetrachloride (...	7.661	117	3789175	8.05	nL		97
40) OXY-TAME	7.878	73	6421815	8.36	nL	#	85
41) Heptane	8.288	43	3414365	8.29	nL	#	72
42) trichloroethene	8.402	130	2888659	8.06	nL		94
43) 1,2-dichloropropane (H...	8.447	63	2266777	8.43	nL		91
44) bromodichmet (HSGI= 0.1...	8.652	83	4078397	8.76	nL	#	95
45) 4-methyl-2-pentanone (...	9.119	43	4540648	8.24	nL	#	82
46) cis-1,3-dichloropropen...	9.199	75	3777127	8.51	nL		95
48) toluene	9.859	92	4836709	7.77	nL		87
49) 1,1,2-trichloroethane ...	9.996	97	2658744	8.40	nL	#	88
50) trans-1,3-dichloroprop...	9.734	75	3513553	8.71	nL	#	92
51) 2-hexanone (MBK)	10.121	43	4403639	8.06	nL	#	88
52) dibromochloromethane (...	10.611	127	3312730	9.06	nL		99
53) tetrachloroethene (HIA...	10.736	164	3051547	7.66	nL		98
54) EDB (HIAL= 0.0022)	10.839	107	3952233	7.89	nL		96
55) chlorobenzene	11.591	112	6038358	7.98	nL	#	94
57) ethylbenzene	11.830	91	9235645	7.38	nL		91
58) p,m-xylene	12.023	106	7670724	14.97	nL		84
59) styrene	12.456	104	6376234	9.73	nL		99

Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 11131214.D  
 Acq On : 14 Nov 2012 4:38 pm  
 Operator :  
 Sample : 10  
 Misc : TO15\_SOILGAS (Sig #1); (Sig #2)  
 ALS Vial : 9 Sample Multiplier: 1

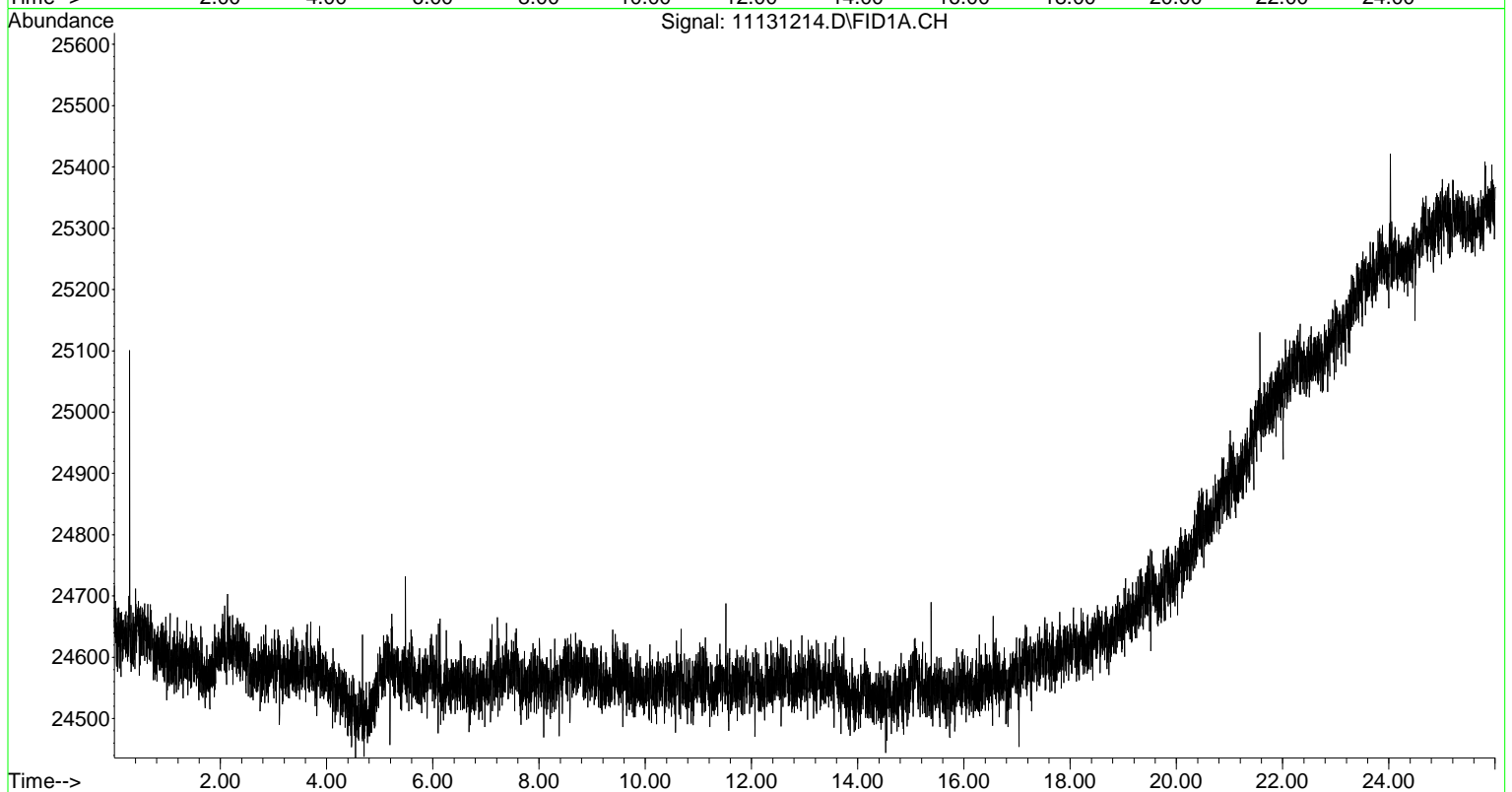
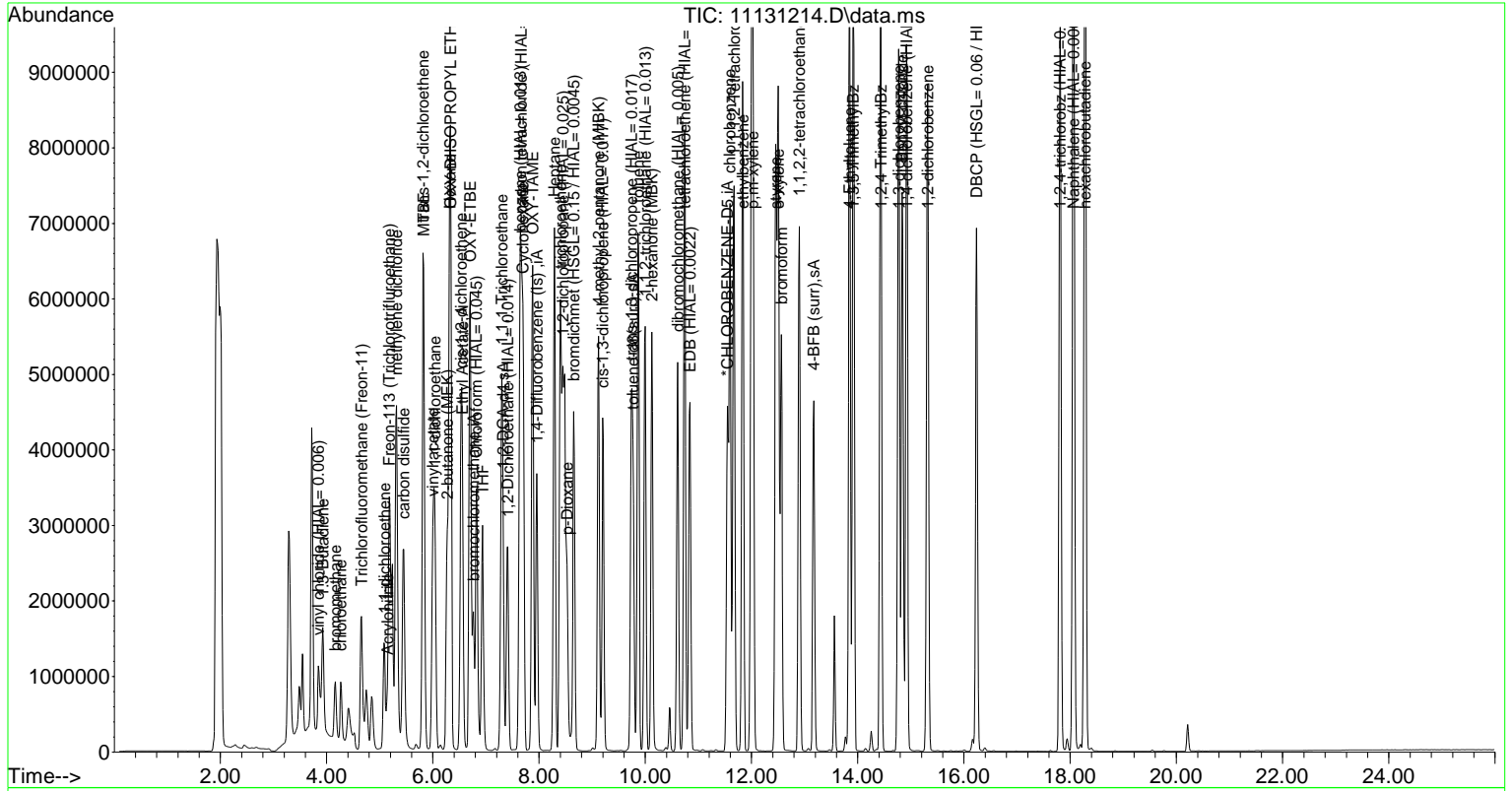
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 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 12 16:25:09 2013  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
60) o-xylene	12.502	91	8075617	7.94	nL	# 89
61) bromoform	12.559	173	4120814	9.99	nL	# 95
62) 4-Ethyltoluene	13.846	105	9940408	10.03	nL	# 89
63) 1,1,2,2-tetrachloroeth...	12.900	83	5146491	7.42	nL	# 94
64) 1,1,1,2-Tetrachloroeth...	11.670	131	3310738	8.93	nL	98
66) Benzyl chloride	14.837	91	8531268	8.37	nL	# 92
67) 1,3,5 TrimethylBz	13.914	105	8384675	7.46	nL	89
68) 1,2,4 TrimethylBz	14.438	105	8648155	7.43	nL	89
69) 1,3-dichlorobenzene	14.768	146	6346063	8.28	nL	95
70) 1,4-dichlorobenzene (H...	14.916	146	6343353	8.22	nL	94
71) 1,2-dichlorobenzene	15.315	146	6026307	8.34	nL	96
72) DBCP (HSGL= 0.06 / HIA...	16.237	157	3329558	10.52	nL	98
73) 1,2,4-trichlorobz (HIA...	17.809	180	5318197	10.03	nL	97
74) Naphthalene (HIAL= 0.0...	18.060	128	16157340	13.66	nL	# 88
75) hexachlorobutadiene	18.276	225	4737857	10.02	nL	# 91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\HPCHEM\GC24\DATA\  
Data File : 11131214.D  
Acq On : 14 Nov 2012 4:38 pm  
Operator :  
Sample : 10  
Misc : TO15\_SOILGAS (Sig #1); (Sig #2)  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 12 16:50:21 2013  
Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
Quant Title : 8240 calibration table  
QLast Update : Fri Apr 12 16:25:09 2013  
Response via : Initial Calibration





Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 11131215.D  
 Acq On : 14 Nov 2012 5:24 pm  
 Operator :  
 Sample : 20  
 Misc : TO15\_SOILGAS (Sig #1); (Sig #2)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 12 16:51:55 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 12 16:25:09 2013  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) bromochloromethane	6.773	130	1036418	50.00	nL	0.00	
39) 1,4-Difluorobenzene (Is)	7.969	114	4031934	50.00	nL	0.00	
56) *CHLOROENZENE-D5	11.556	117	3766136	50.00	nL	0.00	
76) bromochloromethane	0.000	130	0m	50.00	nL	-6.67	
System Monitoring Compounds							
22) 1,2-DCA-d4	7.342	65	980807	94.87	nL	0.00	
47) toluene-d8(surr)	9.780	98	3254677	99.81	nL	0.00	
65) 4-BFB (surr)	13.174	95	2394741	100.96	nL	0.00	
Target Compounds							
9) vinyl chloride (HIAL= ...	3.709	62	1465916	7.36	nL		Qvalue 94
10) 1.3-Butadiene	3.789	54	1452489	11.16	nL		92
11) bromomethane	4.051	96	1571437	15.10	nL		97
12) chloroethane	4.176	64	1024935	14.69	nL	#	91
13) Trichlorofluoromethane...	4.586	101	3704091	11.14	nL		96
14) 1,1-dichloroethene	5.042	96	1515685m	Below	Cal		
15) methylene dichloride	5.292	84	1370750	7.18	nL	#	60
16) carbon disulfide	5.406	76	5450343	12.41	nL	#	95
17) Freon-113 (Trichlorotr...	5.144	101	2577111	Below	Cal	#	88
18) Acrylonitrile	5.121	53	1051658	16.74	nL		97
19) trans-1,2-dichloroethene	5.805	96	3491087	14.93	nL	#	68
20) vinyl acetate	5.998	43	8268655	15.13	nL	#	93
21) MTBE	5.828	73	9107878	13.24	nL	#	90
23) 1,2-Dichloroethane (HI...	7.422	62	4375454	14.37	nL	#	91
24) 1,1-dichloroethane	6.033	63	5902905	14.34	nL	#	92
25) 2-butanone (MEK)	6.283	72	2135549	13.11	nL	#	73
26) OXY-DIISOPROPYL ETHER	6.340	45	9490633	12.49	nL	#	78
27) cis-1,2-dichloroethene	6.534	96	3864464	15.23	nL	#	66
29) Chloroform (HIAL= 0.045)	6.841	83	6490650	14.21	nL	#	92
30) Ethyl Acetate	6.568	43	7196016	14.10	nL	#	66
31) OXY-ETBE	6.716	59	10460989	13.45	nL	#	86
32) THF	6.944	42	4348457	12.27	nL	#	79
33) Cyclohexane	7.707	56	5066683	12.45	nL	#	74
34) Hexane	6.306	57	5178140	11.92	nL	#	94
35) p-Dioxane	8.550	88	2725415	15.32	nL	#	75
36) 1,1,1-Trichloroethane	7.308	97	6422730	13.86	nL	#	93
37) benzene (HIAL= 0.013)	7.650	78	9524998	12.29	nL	#	92
38) carbon tetrachloride (...	7.684	117	5908278	12.73	nL		96
40) OXY-TAME	7.889	73	10316617	13.77	nL	#	87
41) Heptane	8.299	43	5494392	13.67	nL	#	68
42) trichloroethene	8.413	130	4713576	13.47	nL		95
43) 1,2-dichloropropane (H...	8.458	63	3762955	14.33	nL		95
44) bromdichmet (HSGI= 0.1...	8.675	83	6648901	14.62	nL	#	93
45) 4-methyl-2-pentanone (...	9.142	43	7486320	13.92	nL	#	77
46) cis-1,3-dichloropropen...	9.222	75	6386000	14.73	nL	#	92
48) toluene	9.882	92	7793973	12.83	nL		84
49) 1,1,2-trichloroethane ...	10.007	97	4353471	14.09	nL	#	91
50) trans-1,3-dichloroprop...	9.745	75	5956638	15.12	nL	#	91
51) 2-hexanone (MBK)	10.133	43	7268898	13.63	nL	#	86
52) dibromochloromethane (...	10.622	127	5230014	14.66	nL		99
53) tetrachloroethene (HIA...	10.748	164	4809263	12.37	nL		97
54) EDB (HIAL= 0.0022)	10.850	107	6282312	12.84	nL		95
55) chlorobenzene	11.602	112	9589932	12.99	nL	#	92
57) ethylbenzene	11.841	91	13858711	11.46	nL	#	85
58) p,m-xylene	12.035	106	11258882	22.71	nL		82
59) styrene	12.467	104	9851086	20.12	nL		96

Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 11131215.D  
 Acq On : 14 Nov 2012 5:24 pm  
 Operator :  
 Sample : 20  
 Misc : TO15\_SOILGAS (Sig #1); (Sig #2)  
 ALS Vial : 9 Sample Multiplier: 1

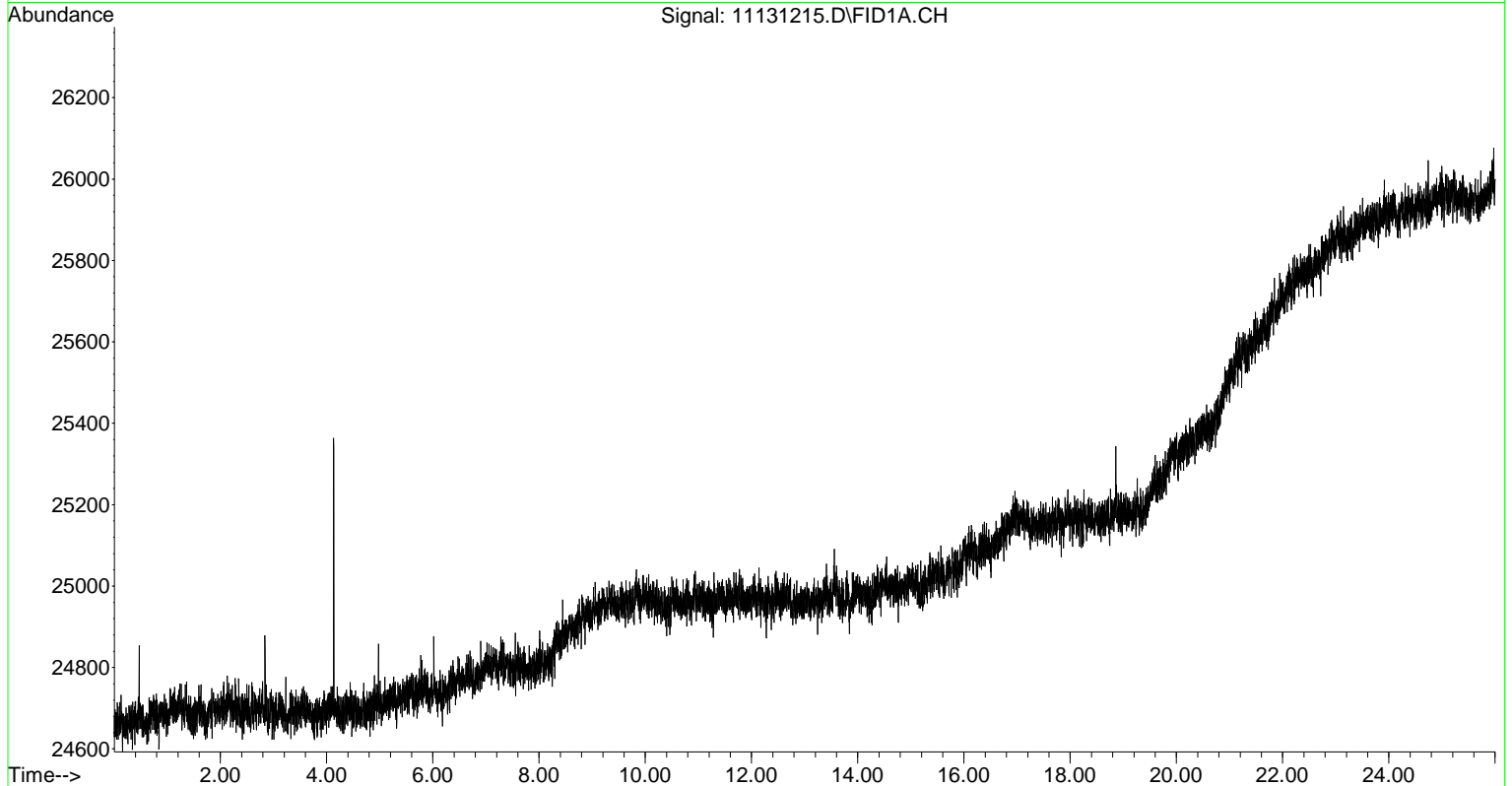
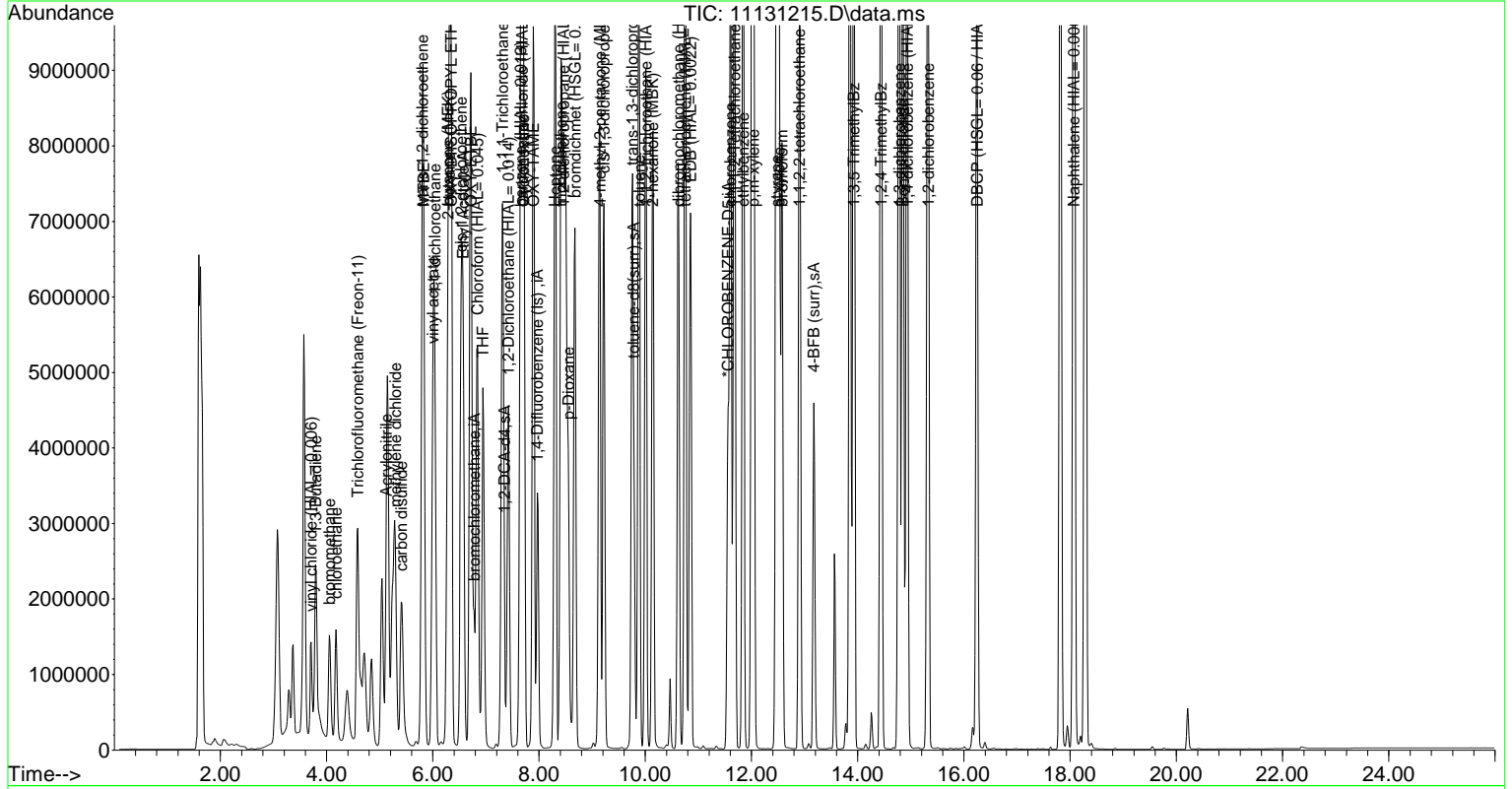
Quant Time: Apr 12 16:51:55 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 12 16:25:09 2013  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
60) o-xylene	12.513	91	12043890	12.24	nL	# 86
61) bromoform	12.570	173	6452023	16.17	nL	# 94
62) 4-Ethyltoluene	13.846	105	15160214	Below	Cal	# 85
63) 1,1,2,2-tetrachloroeth...	12.900	83	7954886	11.86	nL	# 92
64) 1,1,1,2-Tetrachloroeth...	11.682	131	5166457	14.40	nL	# 97
66) Benzyl chloride	14.848	91	13300058	13.49	nL	# 86
67) 1,3,5 TrimethylBz	13.925	105	11800055	10.85	nL	# 85
68) 1,2,4 TrimethylBz	14.438	105	12690290	11.26	nL	# 86
69) 1,3-dichlorobenzene	14.779	146	9571423	12.95	nL	# 92
70) 1,4-dichlorobenzene (H...	14.928	146	9502503	12.77	nL	# 92
71) 1,2-dichlorobenzene	15.326	146	9181089	13.18	nL	# 94
72) DBCP (HSGL= 0.06 / HIA...	16.249	157	5280930	17.25	nL	# 98
73) 1,2,4-trichlorobz (HIA...	17.820	180	8249201	Below	Cal	# 95
74) Naphthalene (HIAL= 0.0...	18.071	128	21943240	19.18	nL	# 84
75) hexachlorobutadiene	18.287	225	6709968	Below	Cal	# 90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\HPCHEM\GC24\DATA\  
Data File : 11131215.D  
Acq On : 14 Nov 2012 5:24 pm  
Operator :  
Sample : 20  
Misc : TO15\_SOILGAS (Sig #1); (Sig #2)  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 12 16:51:55 2013  
Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
Quant Title : 8240 calibration table  
QLast Update : Fri Apr 12 16:25:09 2013  
Response via : Initial Calibration



Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 11131216.D  
 Acq On : 14 Nov 2012 6:18 pm  
 Operator :  
 Sample : 40  
 Misc : TO15\_SOILGAS (Sig #1); (Sig #2)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 12 16:56:04 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 12 16:25:09 2013  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) bromochloromethane	6.773	130	1005212	50.00	nL	0.00	
39) 1,4-Difluorobenzene (Is)	7.969	114	3856275	50.00	nL	0.00	
56) *CHLOROBENZENE-D5	11.556	117	3529787	50.00	nL	0.00	
76) bromochloromethane	0.000	130	0m	50.00	nL	-6.67	
System Monitoring Compounds							
22) 1,2-DCA-d4	7.342	65	904864	90.24	nL	0.00	
47) toluene-d8(surr)	9.780	98	2954843	94.74	nL	0.00	
65) 4-BFB (surr)	13.174	95	2286164	102.83	nL	0.00	
Target Compounds							
11) bromomethane	4.153	96	2049751	20.31	nL		Qvalue 97
12) chloroethane	4.267	64	1467543	21.68	nL	#	92
13) Trichlorofluoromethane...	4.655	101	5632730	17.46	nL		95
14) 1,1-dichloroethene	5.087	96	2566400	Below Cal		#	74
15) methylene dichloride	5.326	84	2398475	13.12	nL	#	63
16) carbon disulfide	5.452	76	15901119	39.19	nL	#	96
17) Freon-113 (Trichlorotr...	5.190	101	3844890	Below Cal		#	89
18) Acrylonitrile	5.156	53	1746282	Below Cal			97
19) trans-1,2-dichloroethene	5.816	96	5391094	23.77	nL	#	69
20) vinyl acetate	6.010	43	13136583	24.79	nL	#	90
21) MTBE	5.850	73	13696762	20.52	nL	#	91
23) 1,2-Dichloroethane (HI...	7.422	62	7238569	24.51	nL	#	90
24) 1,1-dichloroethane	6.055	63	9566737	23.95	nL	#	90
25) 2-butanone (MEK)	6.295	72	3428946	21.71	nL	#	74
26) OXY-DIISOPROPYL ETHER	6.363	45	12981006	17.61	nL	#	74
27) cis-1,2-dichloroethene	6.545	96	6236518	25.34	nL	#	66
29) Chloroform (HIAL= 0.045)	6.841	83	10309732	23.27	nL		92
30) Ethyl Acetate	6.579	43	11272482	22.78	nL	#	61
31) OXY-ETBE	6.716	59	15705856	20.82	nL	#	83
32) THF	6.944	42	7294274	21.22	nL	#	76
33) Cyclohexane	7.707	56	6864820	17.39	nL	#	71
34) Hexane	6.317	57	6912393	16.41	nL	#	94
35) p-Dioxane	8.550	88	4610662	26.72	nL	#	75
36) 1,1,1-Trichloroethane	7.308	97	9835508	21.88	nL	#	91
37) benzene (HIAL= 0.013)	7.638	78	12505855	16.64	nL	#	92
38) carbon tetrachloride (...)	7.673	117	7755560	17.22	nL		96
40) OXY-TAME	7.889	73	15165336	21.16	nL	#	88
41) Heptane	8.299	43	7819336	20.34	nL	#	63
42) trichloroethene	8.413	130	6911731	20.65	nL		94
43) 1,2-dichloropropane (H...	8.459	63	5310360	21.14	nL	#	88
44) bromdichmet (HSG= 0.1...	8.664	83	9802001	22.54	nL	#	92
45) 4-methyl-2-pentanone (...)	9.130	43	11308439	21.99	nL	#	74
46) cis-1,3-dichloropropen...	9.210	75	9989223	24.10	nL	#	90
48) toluene	9.871	92	11340185	19.52	nL	#	80
49) 1,1,2-trichloroethane ...	9.996	97	6405060	21.68	nL	#	93
50) trans-1,3-dichloroprop...	9.745	75	9248320	24.55	nL	#	88
51) 2-hexanone (MBK)	10.133	43	11023403	21.62	nL	#	83
52) dibromochloromethane (...)	10.622	127	7382601	21.64	nL		97
53) tetrachloroethene (HIA...	10.748	164	6463598	17.39	nL		97
54) EDB (HIAL= 0.0022)	10.850	107	8884439	18.99	nL	#	94
55) chlorobenzene	11.602	112	13607395	19.27	nL	#	91
57) ethylbenzene	11.841	91	18408665	16.24	nL	#	82
58) p,m-xylene	12.023	106	14147970	30.45	nL		82
59) styrene	12.467	104	13685835	Below Cal		#	92
60) o-xylene	12.524	91	15349370	16.65	nL	#	86
61) bromoform	12.581	173	8796624	23.52	nL	#	93

Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 11131216.D  
 Acq On : 14 Nov 2012 6:18 pm  
 Operator :  
 Sample : 40  
 Misc : TO15\_SOILGAS (Sig #1); (Sig #2)  
 ALS Vial : 9 Sample Multiplier: 1

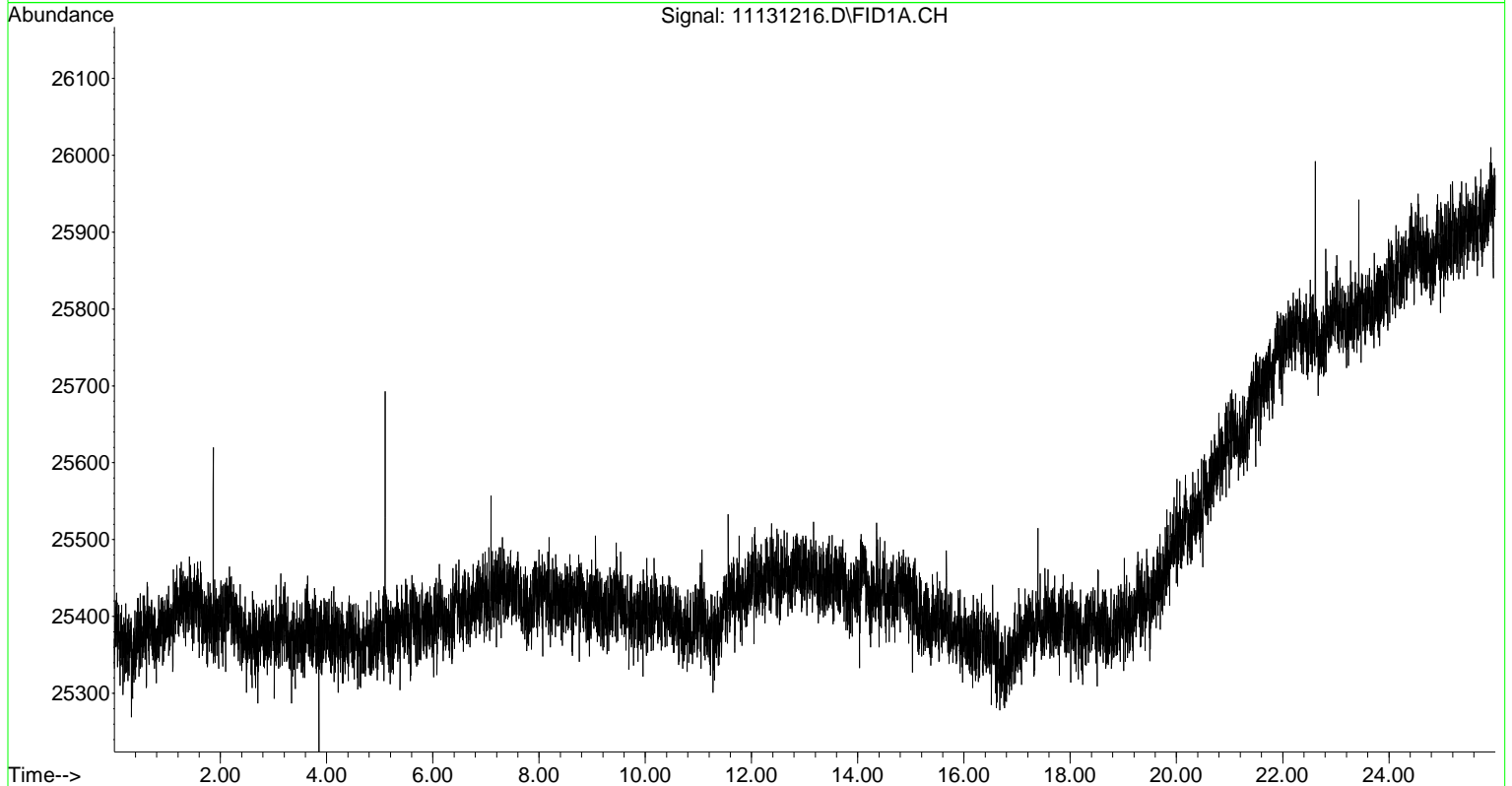
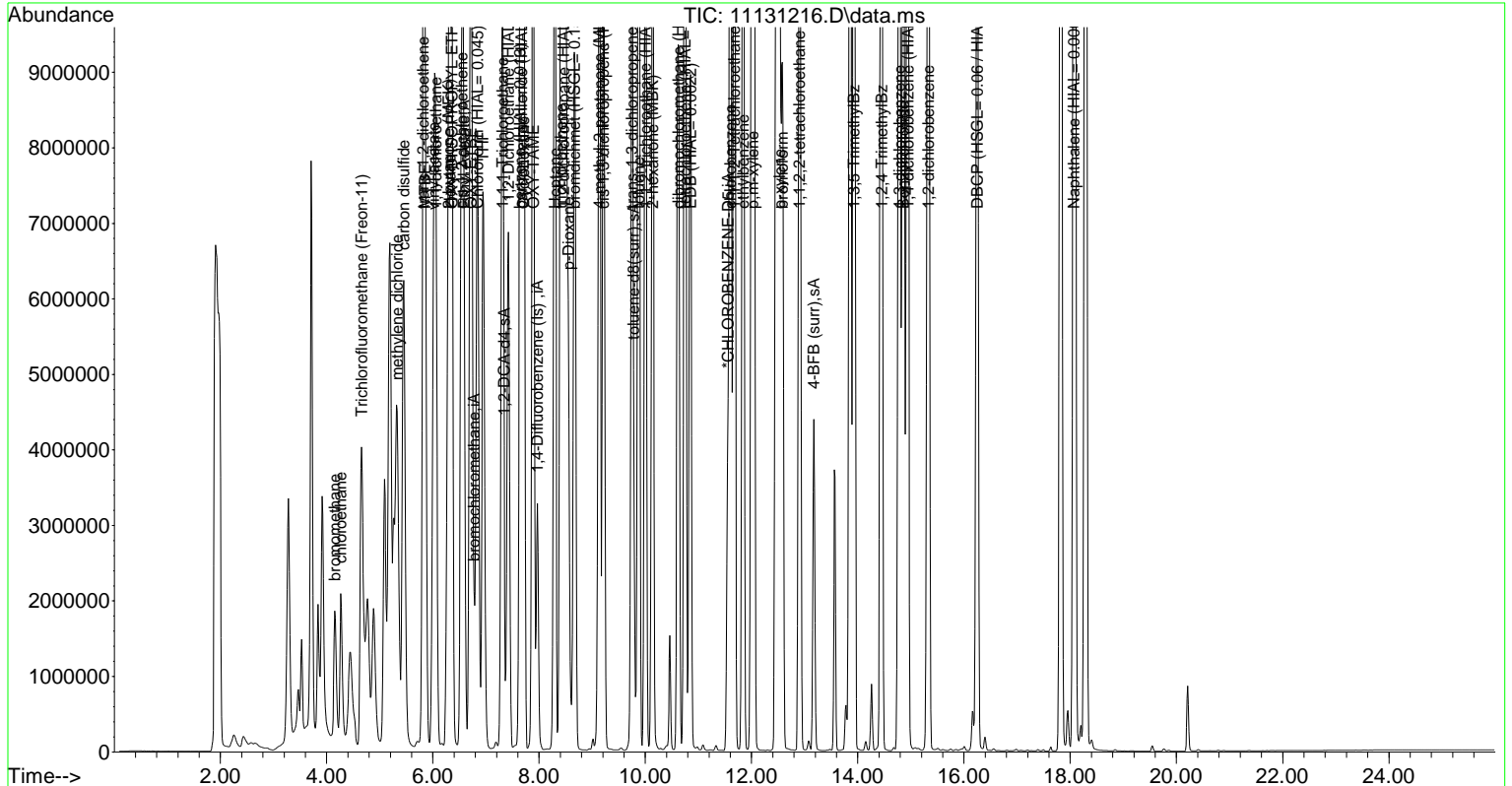
Quant Time: Apr 12 16:56:04 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 12 16:25:09 2013  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) 4-Ethyltoluene	13.857	105	19596708	Below	Cal	# 82
63) 1,1,2,2-tetrachloroeth...	12.900	83	10504509	16.70	nL	# 90
64) 1,1,1,2-Tetrachloroeth...	11.670	131	7022611	20.89	nL	# 97
66) Benzyl chloride	14.859	91	18732437	20.27	nL	# 80
67) 1,3,5 TrimethylBz	13.925	105	15397113	15.11	nL	# 84
68) 1,2,4 TrimethylBz	14.449	105	16645582	15.77	nL	# 85
69) 1,3-dichlorobenzene	14.780	146	12738236	18.42	nL	# 89
70) 1,4-dichlorobenzene (H...	14.939	146	12423800	17.84	nL	# 89
71) 1,2-dichlorobenzene	15.326	146	12370825	18.98	nL	# 90
72) DBCP (HSGL= 0.06 / HIA...	16.249	157	7390213	25.75	nL	# 98
73) 1,2,4-trichlorobz (HIA...	17.820	180	11230087	Below	Cal	# 95
74) Naphthalene (HIAL= 0.0...	18.071	128	27190637	25.36	nL	# 84
75) hexachlorobutadiene	18.276	225	7894571	Below	Cal	# 89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 11131216.D  
 Acq On : 14 Nov 2012 6:18 pm  
 Operator :  
 Sample : 40  
 Misc : TO15\_SOILGAS (Sig #1); (Sig #2)  
 ALS Vial : 9 Sample Multiplier: 1

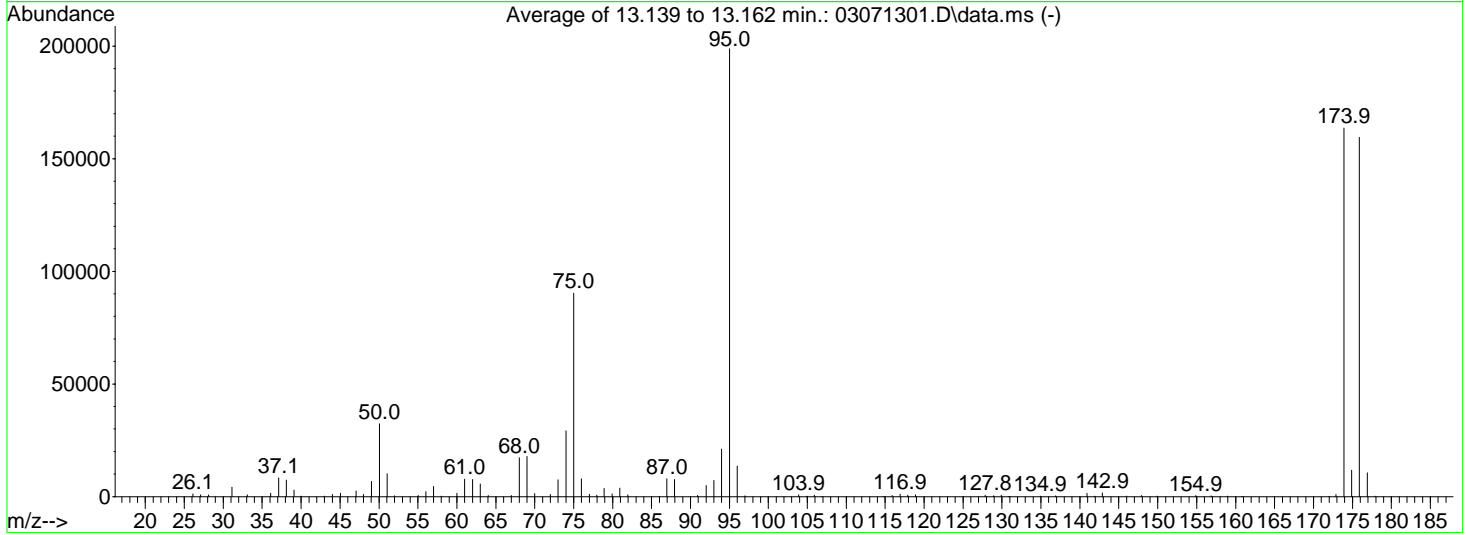
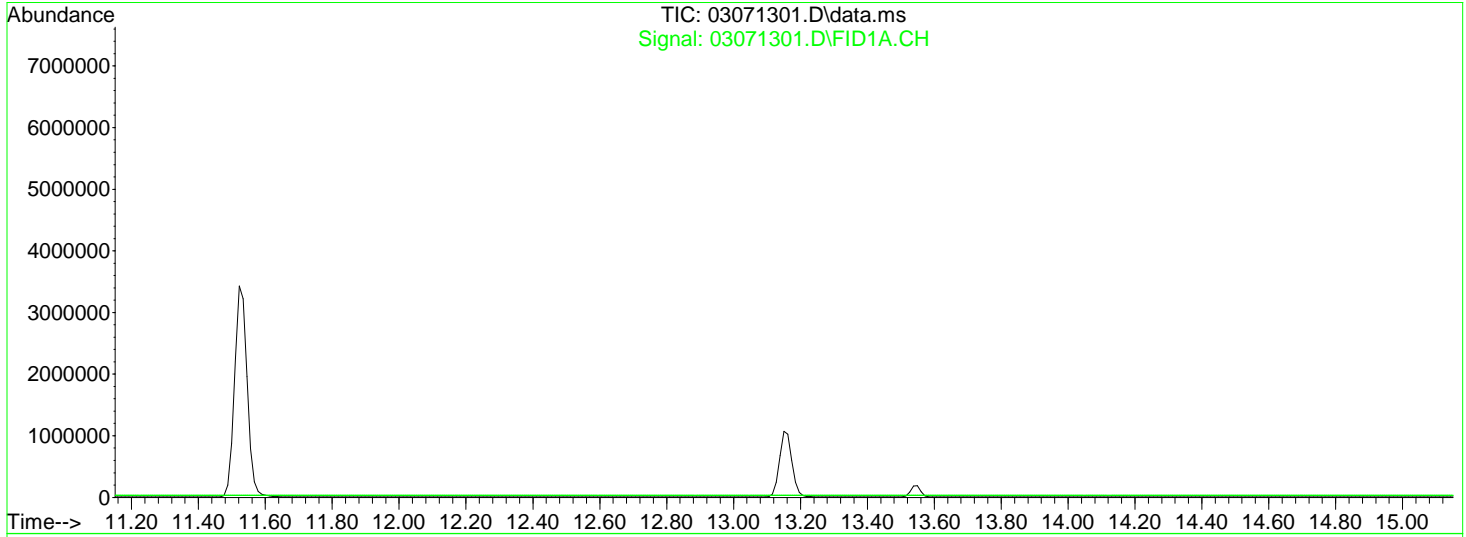
Quant Time: Apr 12 16:56:04 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 12 16:25:09 2013  
 Response via : Initial Calibration



Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 03071301.D  
 Acq On : 7 Mar 2013 4:21 pm (#1); 07 Mar 2013 4:21 pm (#2)  
 Operator :  
 Sample : tune  
 Misc : TO15\_SOILGAS (Sig #1); (Sig #2)  
 ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint4.p  
 Integration File signal 2: rteint2.p

Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Title : 8240 calibration table  
 Last Update : Fri Apr 05 16:52:03 2013



AutoFind: Scans 1146, 1147, 1148; Background Corrected with Scan 1140

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.2	32264	PASS
75	95	30	66	45.4	90298	PASS
95	95	100	100	100.0	198869	PASS
96	95	5	9	6.8	13546	PASS
173	174	0.00	2	0.6	976	PASS
174	95	50	100	82.2	163538	PASS
175	174	4	9	7.2	11712	PASS
176	174	93	101	97.5	159426	PASS
177	176	5	9	6.6	10530	PASS

Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 03071303.D  
 Acq On : 7 Mar 2013 5:54 pm (#1); 07 Mar 2013 5:54 pm (#2)  
 Operator :  
 Sample : 1 CAL alcohols (Sig #1); 1 (Sig #2)  
 Misc : TO15\_SOILGAS (Sig #1); (Sig #2)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 05 18:05:07 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 05 11:02:43 2013  
 Response via : Initial Calibration

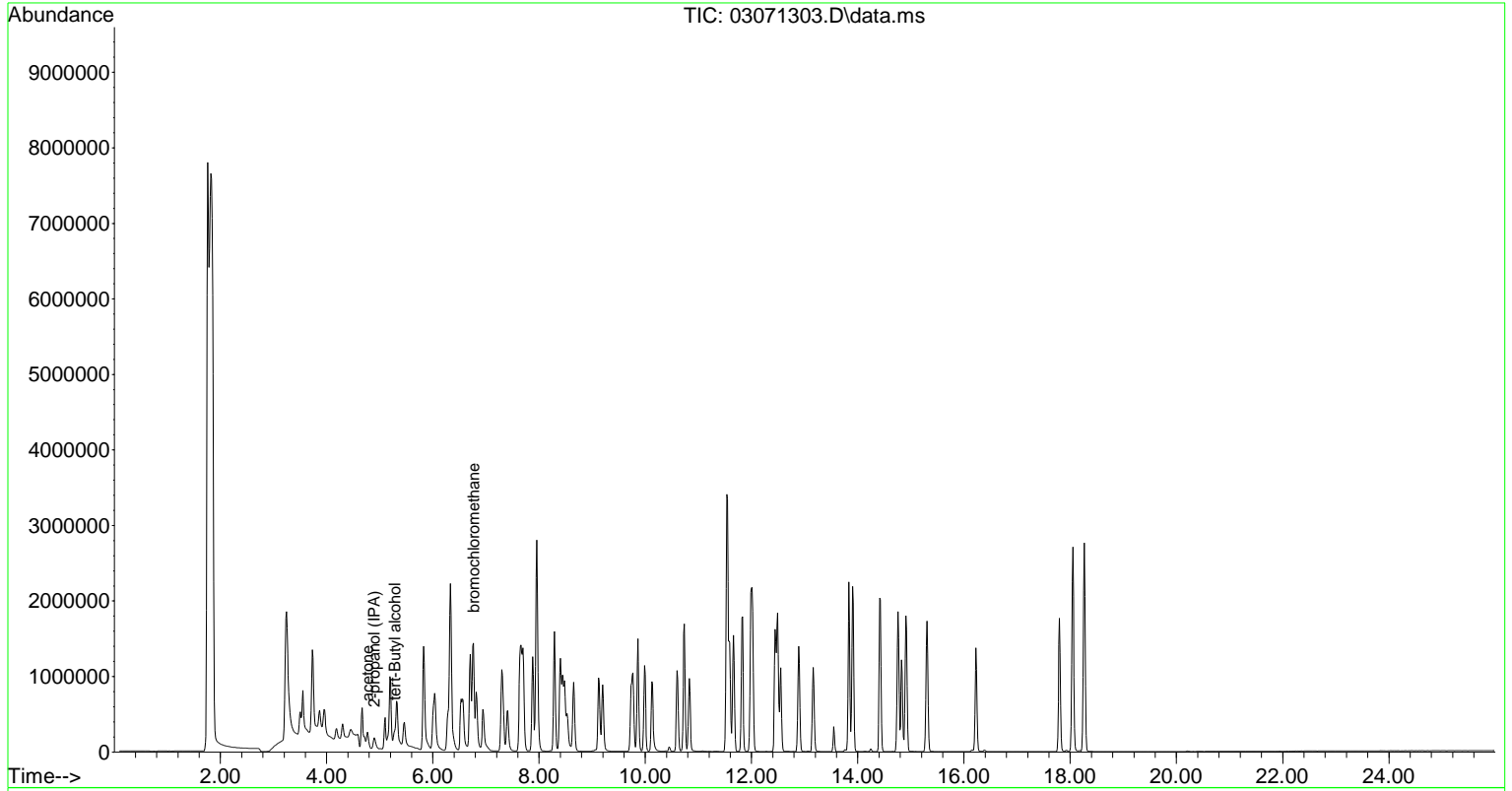
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) bromochloromethane	6.761	130	0m	50.00	nL	0.00	
39) 1,4-Difluorobenzene (Is)	0.000	114	0m	50.00	nL	-7.96	
56) *CHLOROBENZENE-D5	0.000	117	0m	50.00	nL	-11.55	
76) bromochloromethane	6.761	130	746922m	50.00	nL	0.09	
System Monitoring Compounds							
22) 1,2-DCA-d4	0.000	65	0d	0.00	nL		
47) toluene-d8(surr)	0.000	98	0d	0.00	nL		
65) 4-BFB (surr)	0.000	95	0d	0.00	nL		
Target Compounds							
77) acetone	4.768	43	359391m	0.72	nL		Qvalue
78) tert-Butyl alcohol	5.281	59	349546m	1.42	nL		
80) 2-propanol (IPA)	4.894	45	308096m	1.35	nL		

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 03071303.D  
 Acq On : 7 Mar 2013 5:54 pm (#1); 07 Mar 2013 5:54 pm (#2)  
 Operator :  
 Sample : 1 CAL alcohols (Sig #1); 1 (Sig #2)  
 Misc : TO15\_SOILGAS (Sig #1); (Sig #2)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 05 18:05:07 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWre.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 05 11:02:43 2013  
 Response via : Initial Calibration



Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 03071304.D  
 Acq On : 7 Mar 2013 6:34 pm (#1); 07 Mar 2013 6:34 pm (#2)  
 Operator :  
 Sample : 2.5 CAL alcohols (Sig #1); 2.5 (Sig #2)  
 Misc : TO15\_SOILGAS (Sig #1); (Sig #2)  
 ALS Vial : 9 Sample Multiplier: 1

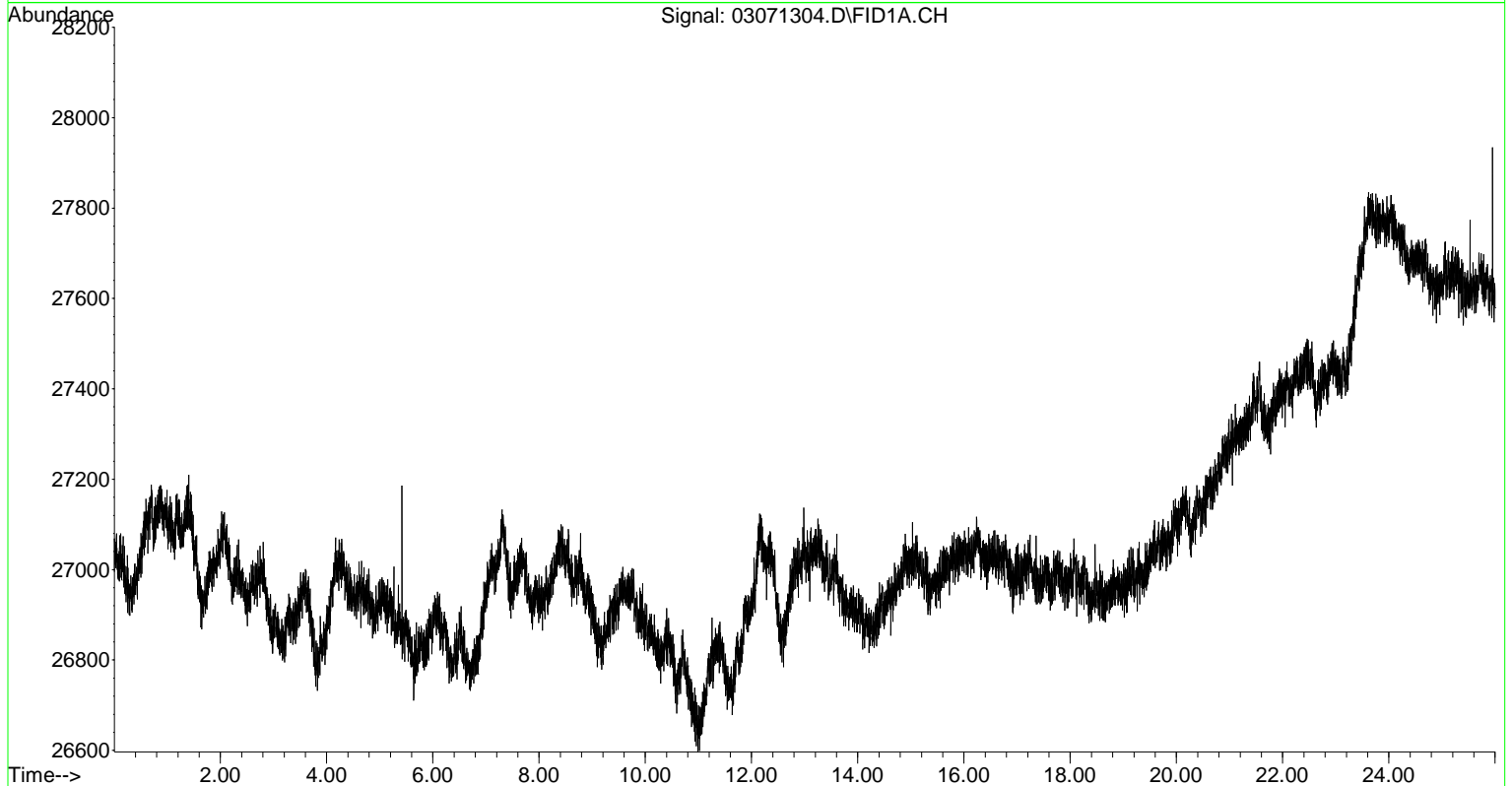
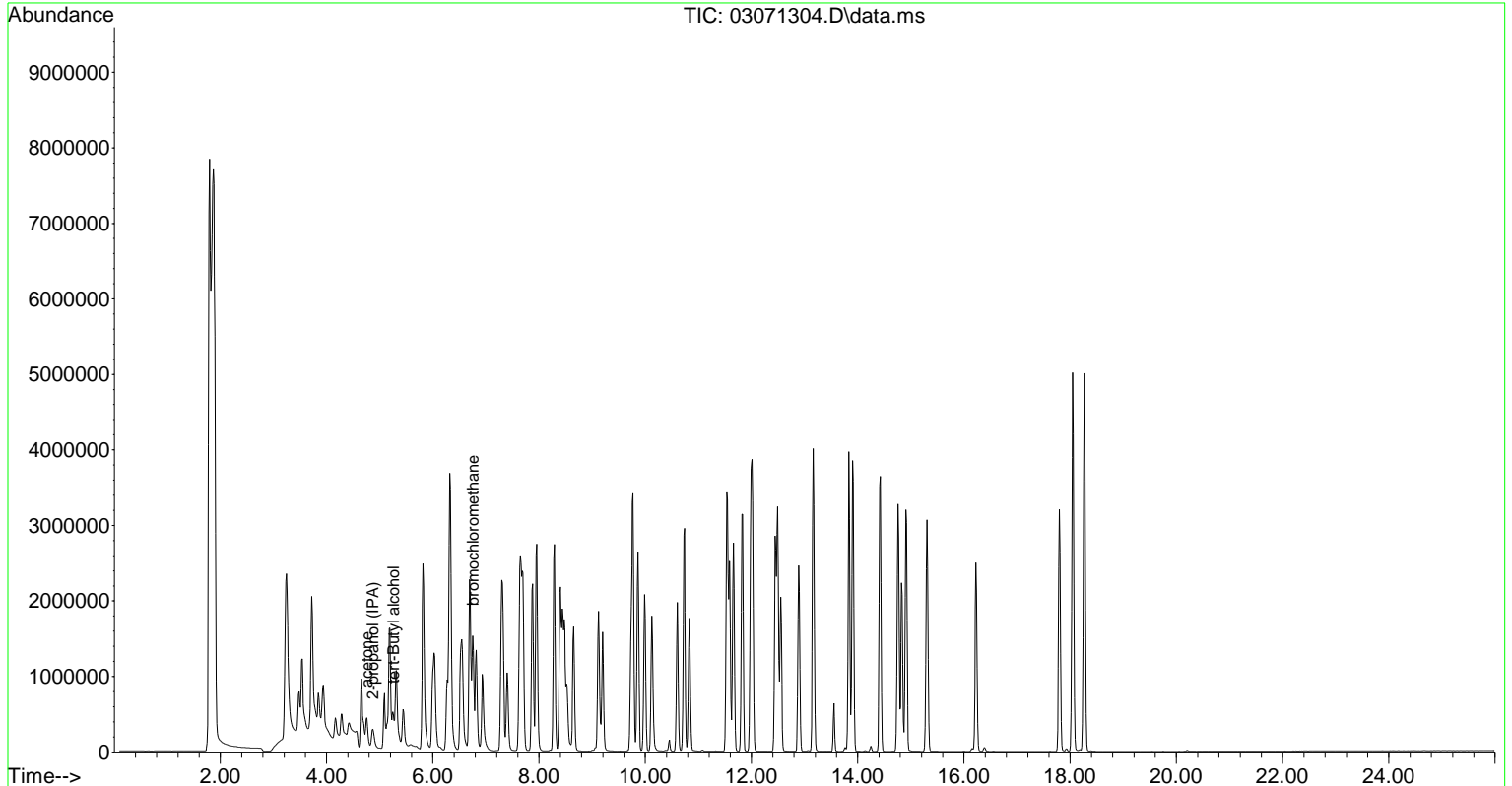
Quant Time: Apr 05 18:06:13 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 05 11:02:43 2013  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) bromochloromethane	0.000	130	0m	50.00	nL	-6.76	
39) 1,4-Difluorobenzene (Is)	0.000	114	0m	50.00	nL	-7.96	
56) *CHLOROBENZENE-D5	0.000	117	0m	50.00	nL	-11.55	
76) bromochloromethane	6.750	130	748903m	50.00	nL	0.08	
System Monitoring Compounds							
22) 1,2-DCA-d4	0.000	65	0d	0.00	nL		
47) toluene-d8(surr)	0.000	98	0d	0.00	nL		
65) 4-BFB (surr)	0.000	95	0d	0.00	nL		
Target Compounds							
77) acetone	4.757	43	693451m	2.70	nL		Qvalue
78) tert-Butyl alcohol	5.258	59	690818m	2.80	nL		
80) 2-propanol (IPA)	4.871	45	566821m	2.48	nL		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 03071304.D  
 Acq On : 7 Mar 2013 6:34 pm (#1); 07 Mar 2013 6:34 pm (#2)  
 Operator :  
 Sample : 2.5 CAL alcohols (Sig #1); 2.5 (Sig #2)  
 Misc : T015\_SOILGAS (Sig #1); (Sig #2)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 05 18:06:13 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\T015DWre.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 05 11:02:43 2013  
 Response via : Initial Calibration



Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 03071305.D  
 Acq On : 7 Mar 2013 7:14 pm (#1); 07 Mar 2013 7:14 pm (#2)  
 Operator :  
 Sample : 5 CAL alcohols (Sig #1); 5 (Sig #2)  
 Misc : TO15\_SOILGAS (Sig #1); (Sig #2)  
 ALS Vial : 9 Sample Multiplier: 1

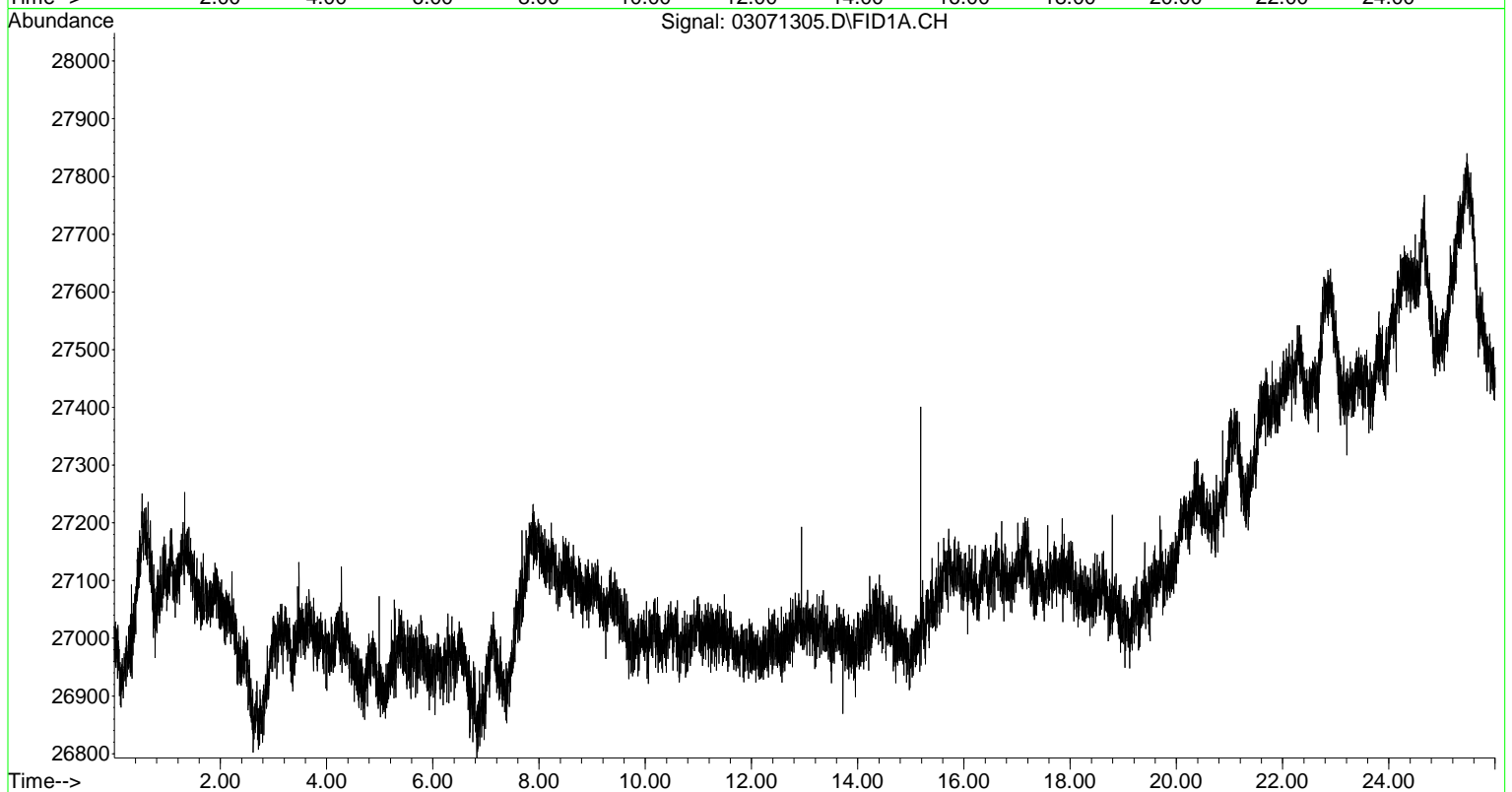
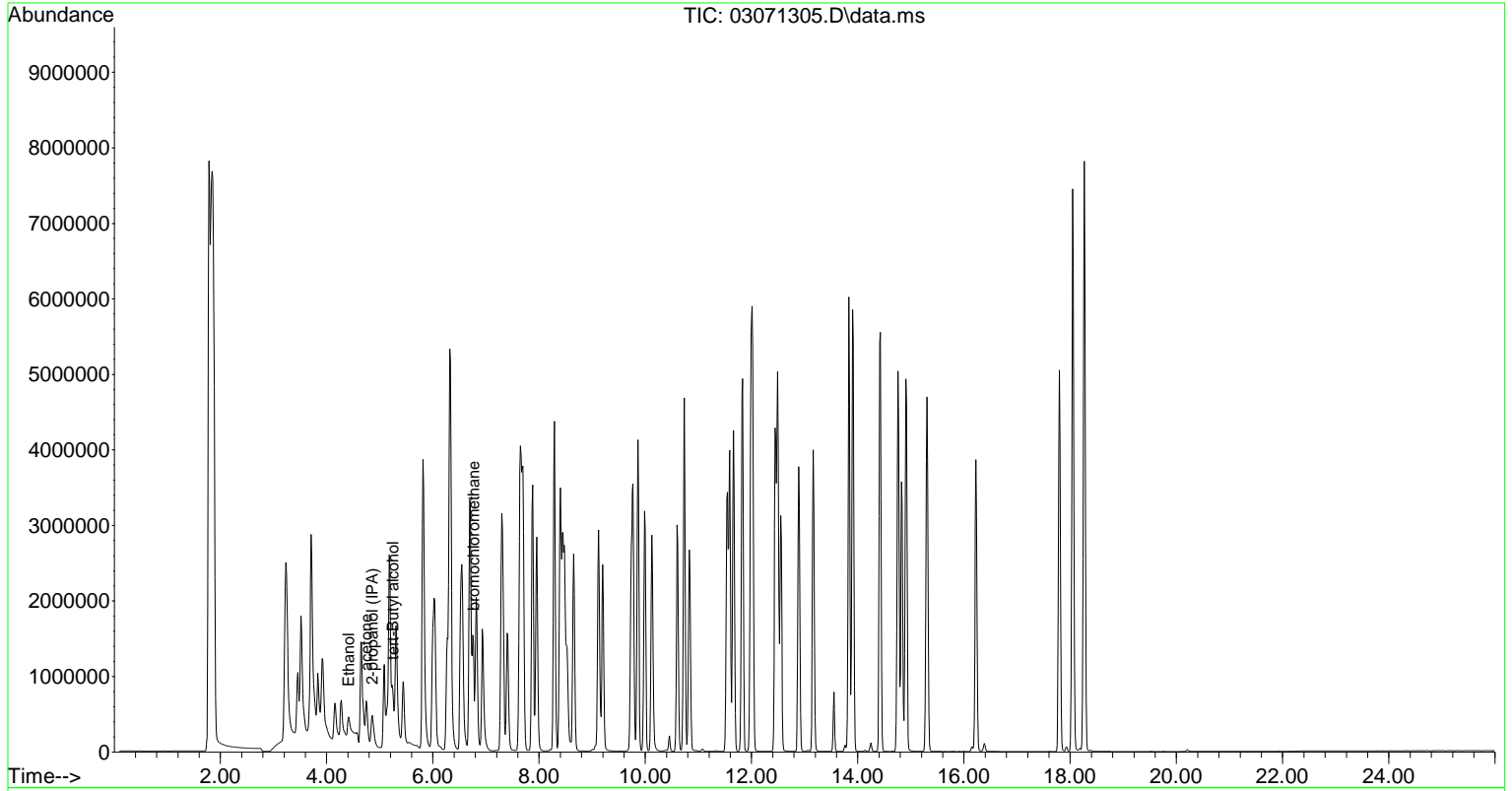
Quant Time: Apr 05 11:25:21 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 05 11:02:43 2013  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) bromochloromethane	0.000	130	0m	50.00	nL	-6.76	
39) 1,4-Difluorobenzene (Is)	0.000	114	0m	50.00	nL	-7.96	
56) *CHLOROBENZENE-D5	0.000	117	0m	50.00	nL	-11.55	
76) bromochloromethane	6.761	130	758096	50.00	nL	0.09	
System Monitoring Compounds							
22) 1,2-DCA-d4	0.000	65	0d	0.00	nL		
47) toluene-d8(surr)	0.000	98	0d	0.00	nL		
65) 4-BFB (surr)	0.000	95	0d	0.00	nL		
Target Compounds							
77) acetone	4.745	43	1087714m	5.00	nL		Qvalue
78) tert-Butyl alcohol	5.247	59	1096824	4.39	nL	#	100
79) Ethanol	4.415	31	392279	3.98	nL	#	100
80) 2-propanol (IPA)	4.859	45	1091182	4.72	nL	#	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\HPCHEM\GC24\DATA\  
Data File : 03071305.D  
Acq On : 7 Mar 2013 7:14 pm (#1); 07 Mar 2013 7:14 pm (#2)  
Operator :  
Sample : 5 CAL alcohols (Sig #1); 5 (Sig #2)  
Misc : TO15\_SOILGAS (Sig #1); (Sig #2)  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 05 11:25:21 2013  
Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWre.M  
Quant Title : 8240 calibration table  
QLast Update : Fri Apr 05 11:02:43 2013  
Response via : Initial Calibration



Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 03071306.D  
 Acq On : 7 Mar 2013 7:56 pm (#1); 07 Mar 2013 7:56 pm (#2)  
 Operator :  
 Sample : 10 CAL alcohols (Sig #1); 10 (Sig #2)  
 Misc : TO15\_SOILGAS (Sig #1); (Sig #2)  
 ALS Vial : 9 Sample Multiplier: 1

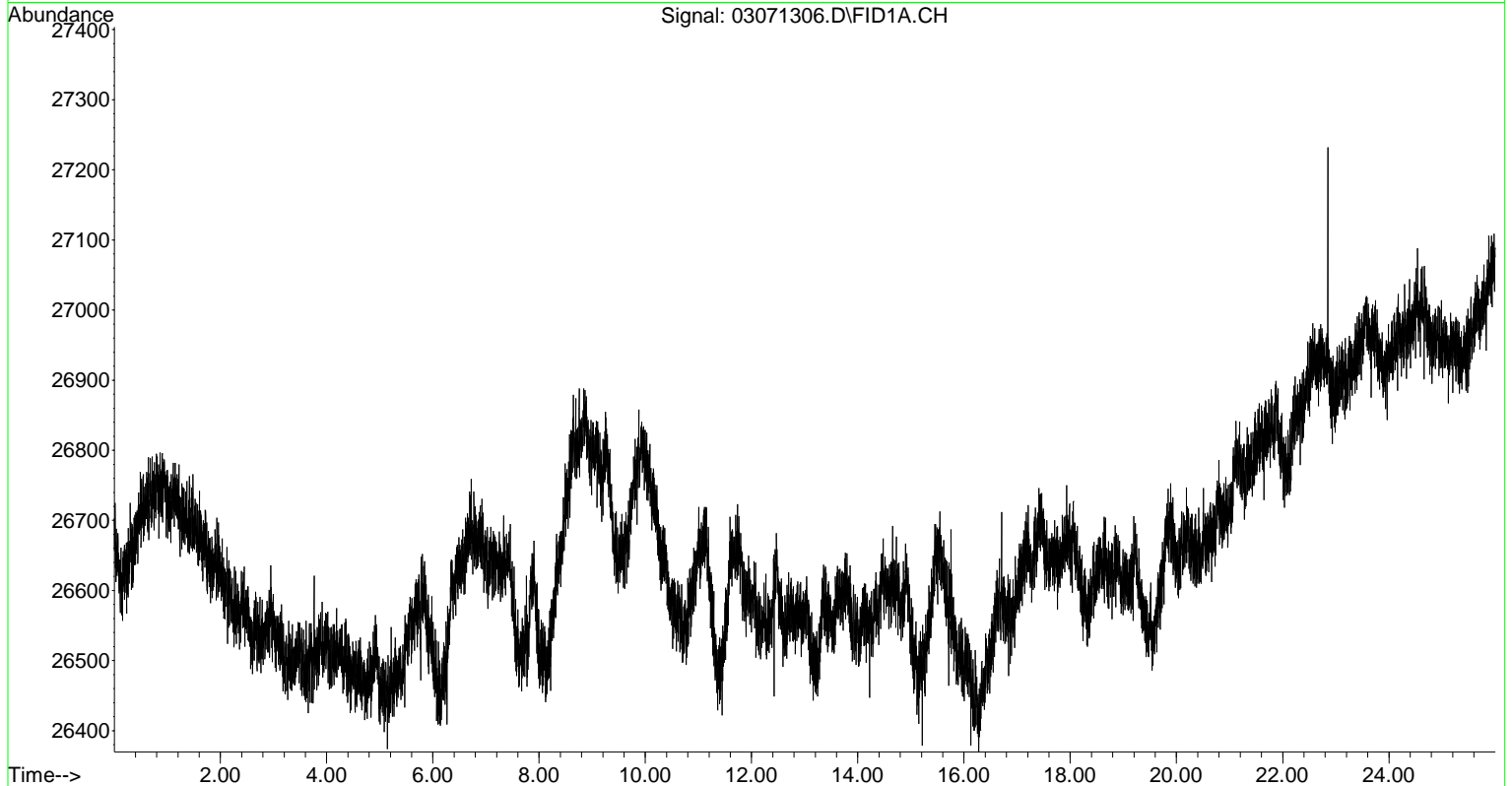
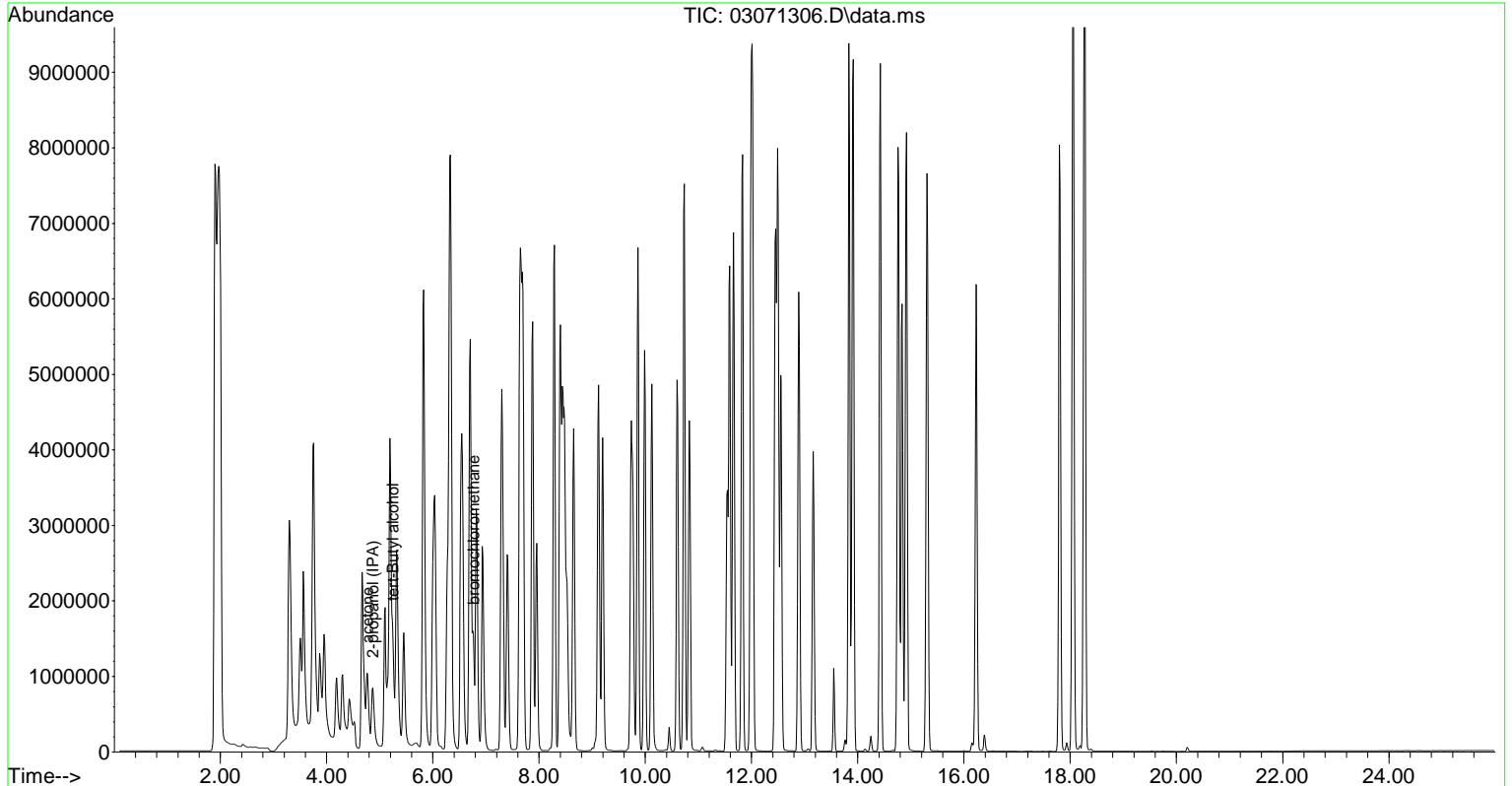
Quant Time: Apr 05 18:07:56 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 05 11:02:43 2013  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) bromochloromethane	0.000	130	0m	50.00	nL	-6.76	
39) 1,4-Difluorobenzene (Is)	0.000	114	0m	50.00	nL	-7.96	
56) *CHLOROBENZENE-D5	0.000	117	0m	50.00	nL	-11.55	
76) bromochloromethane	6.761	130	760108	50.00	nL	0.09	
System Monitoring Compounds							
22) 1,2-DCA-d4	0.000	65	0d	0.00	nL		
47) toluene-d8(surr)	0.000	98	0d	0.00	nL		
65) 4-BFB (surr)	0.000	95	0d	0.00	nL		
Target Compounds							
77) acetone	4.768	43	1894060m	9.91	nL		Qvalue
78) tert-Butyl alcohol	5.247	59	2122847	8.47	nL	#	100
80) 2-propanol (IPA)	4.871	45	1877864	8.11	nL	#	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\HPCHEM\GC24\DATA\  
Data File : 03071306.D  
Acq On : 7 Mar 2013 7:56 pm (#1); 07 Mar 2013 7:56 pm (#2)  
Operator :  
Sample : 10 CAL alcohols (Sig #1); 10 (Sig #2)  
Misc : TO15\_SOILGAS (Sig #1); (Sig #2)  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 05 18:07:56 2013  
Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWre.M  
Quant Title : 8240 calibration table  
QLast Update : Fri Apr 05 11:02:43 2013  
Response via : Initial Calibration



Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 03071307.D  
 Acq On : 7 Mar 2013 8:39 pm (#1); 07 Mar 2013 8:39 pm (#2)  
 Operator :  
 Sample : 20 CAL alcohols (Sig #1); 20 (Sig #2)  
 Misc : TO15\_SOILGAS (Sig #1); (Sig #2)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 05 18:08:56 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 05 11:02:43 2013  
 Response via : Initial Calibration

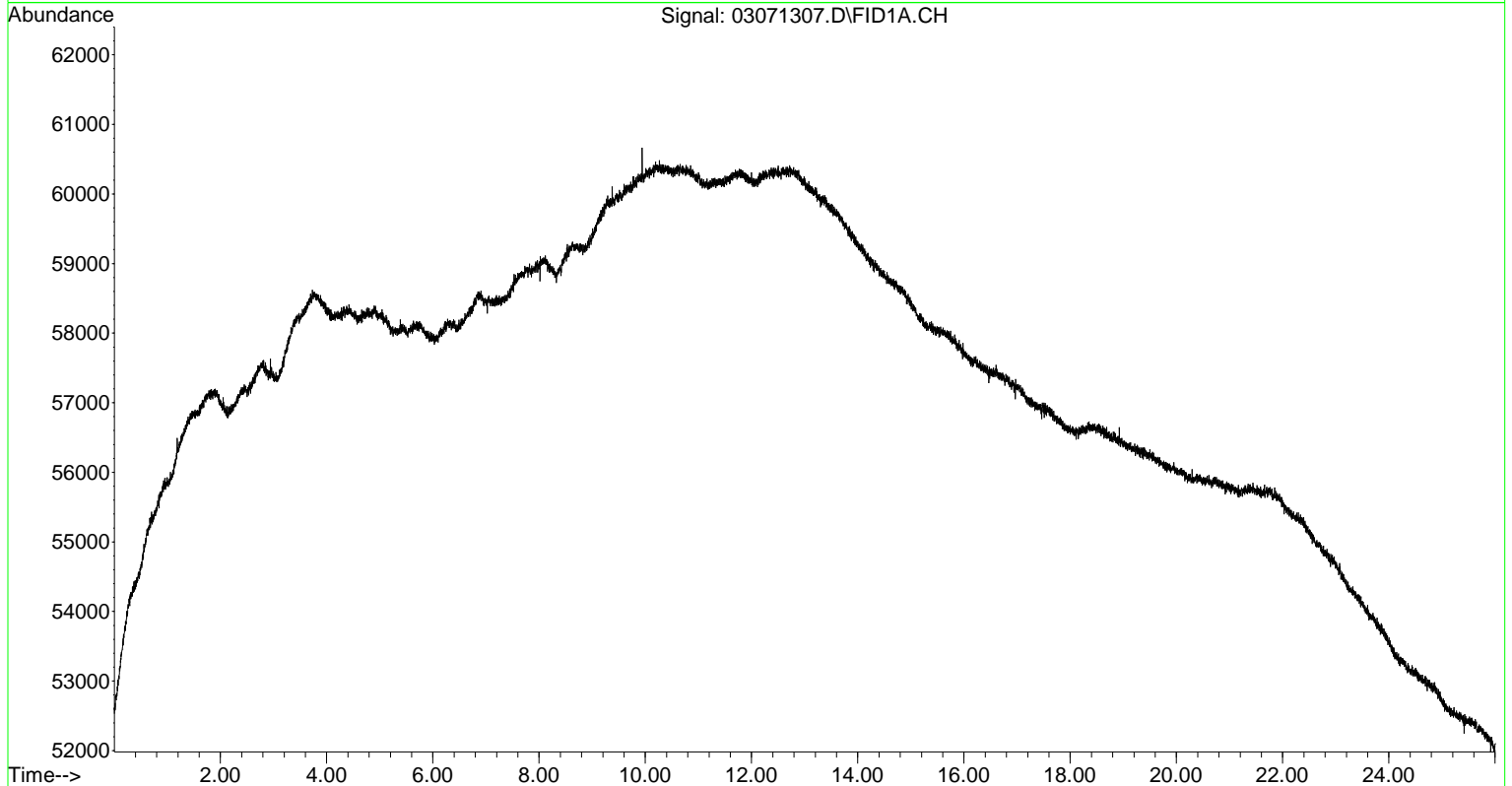
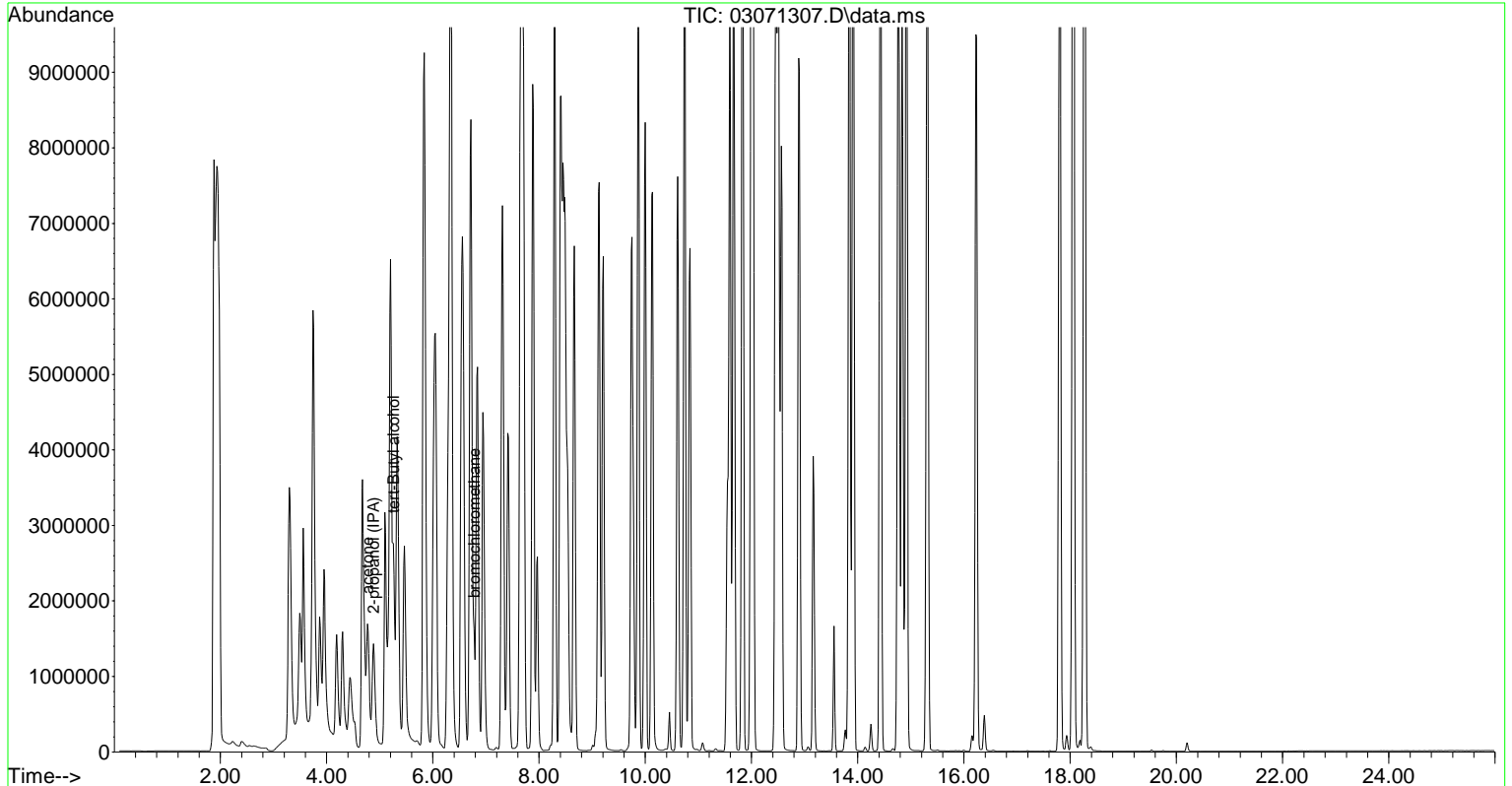
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) bromochloromethane	0.000	130	0m	50.00	nL	-6.76	
39) 1,4-Difluorobenzene (Is)	0.000	114	0m	50.00	nL	-7.96	
56) *CHLOROBENZENE-D5	0.000	117	0m	50.00	nL	-11.55	
76) bromochloromethane	6.773	130	754098	50.00	nL	0.10	
System Monitoring Compounds							
22) 1,2-DCA-d4	0.000	65	0d	0.00	nL		
47) toluene-d8(surr)	0.000	98	0d	0.00	nL		
65) 4-BFB (surr)	0.000	95	0d	0.00	nL		
Target Compounds							
77) acetone	4.768	43	3328677m	19.36	nL		Qvalue
78) tert-Butyl alcohol	5.258	59	4382929	17.62	nL	#	100
80) 2-propanol (IPA)	4.882	45	3298636	14.36	nL	#	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 03071307.D  
 Acq On : 7 Mar 2013 8:39 pm (#1); 07 Mar 2013 8:39 pm (#2)  
 Operator :  
 Sample : 20 CAL alcohols (Sig #1); 20 (Sig #2)  
 Misc : TO15\_SOILGAS (Sig #1); (Sig #2)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 05 18:08:56 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWre.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 05 11:02:43 2013  
 Response via : Initial Calibration



## Chemstation Sequence

Inst.	Type	Vial	Data File	Anal Date	Method	Sample	Mult.
GC-24	TUNE	16	03151301.D	3/15/13 9:54 AM	TO15DW.M	tune	1
GC-24	CCV	9	03151302.D	3/15/13 10:34 AM	TO15DW.M	CCV	1
GC-24	MBLK	16	03151303.D	3/15/13 11:14 AM	TO15DW.M	MB-75598	1
GC-24	LCS	9	03151310.D	3/15/13 6:38 PM	TO15DW.M	LCS-75598	1
GC-24	SAMP	1	03151315.D	3/15/13 10:14 PM	TO15DW.M	1303408-001A	1
GC-24	SAMP	1	03151315A.D	3/15/13 10:14 PM	TO15DW.M	1303408-001A ppmv	1
GC-24	SAMP	1	03151315B.D	3/15/13 10:14 PM	TO15DW.M	1303408-001A ppmv	1
GC-24	SAMP	2	03151316.D	3/15/13 11:12 PM	TO15DW.M	1303408-002A	1
GC-24	SAMP	2	03151316A.D	3/15/13 11:12 PM	TO15DW.M	1303408-002A ppmv	1
GC-24	SAMP	2	03151316B.D	3/15/13 11:12 PM	TO15DW.M	1303408-002A ppmv	1
GC-24	SAMP	6	03151317.D	3/16/13 12:10 AM	TO15DW.M	1303408-003A	1
GC-24	SAMP	6	03151317A.D	3/16/13 12:10 AM	TO15DW.M	1303408-003A ppmv	1
GC-24	SAMP	6	03151317B.D	3/16/13 12:10 AM	TO15DW.M	1303408-003A ppmv	1
GC-24	SAMP	7	03151318.D	3/16/13 1:09 AM	TO15DW.M	1303408-004A	1
GC-24	SAMP	7	03151318A.D	3/16/13 1:09 AM	TO15DW.M	1303408-004A ppmv	1
GC-24	SAMP	7	03151318B.D	3/16/13 1:09 AM	TO15DW.M	1303408-004A ppmv	1

Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 03151301.D  
 Acq On : 15 Mar 2013 9:54 am  
 Operator :  
 Sample : tune  
 Misc : TO15\_SOILGAS  
 ALS Vial : 16 Sample Multiplier: 1

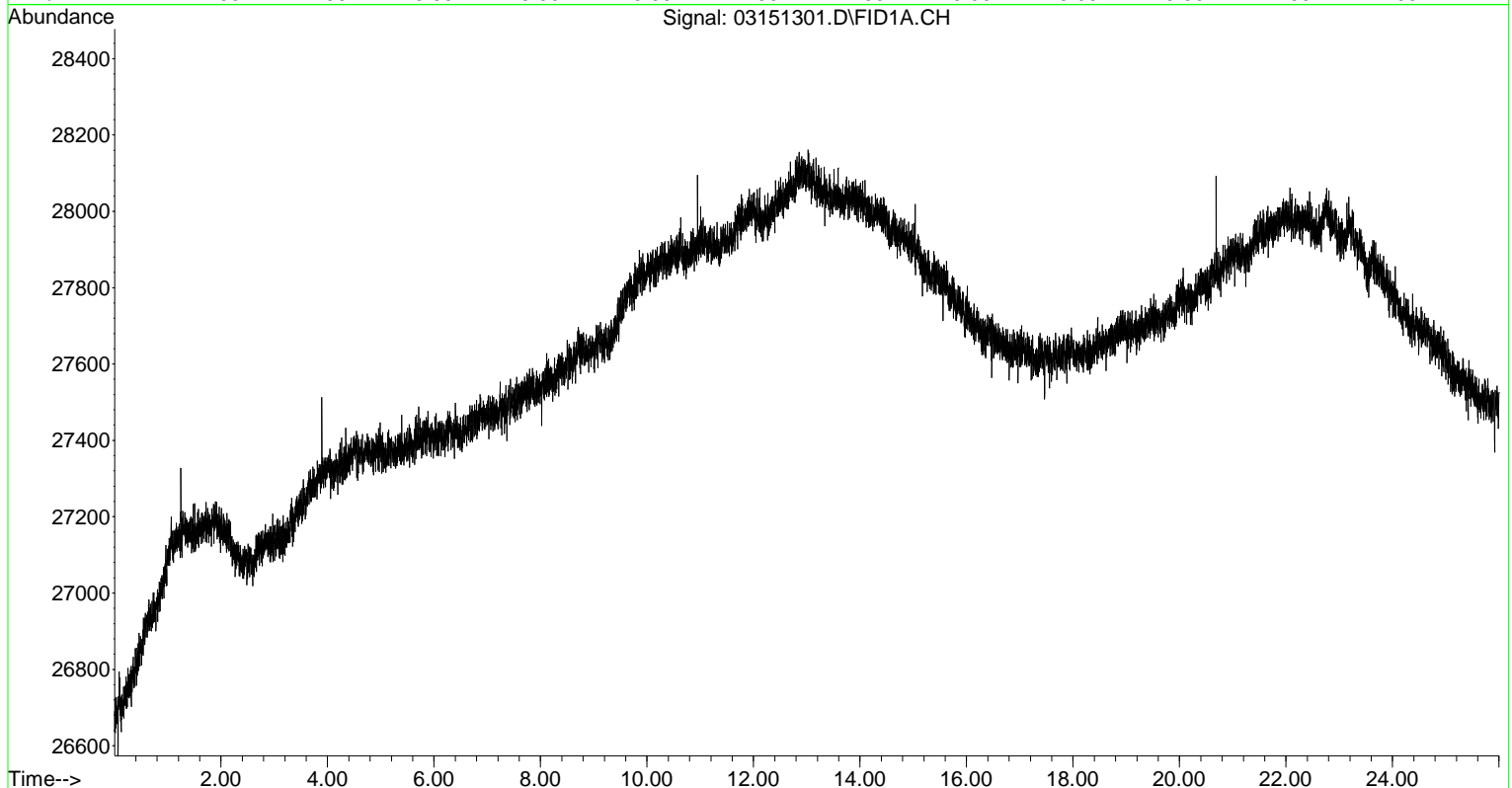
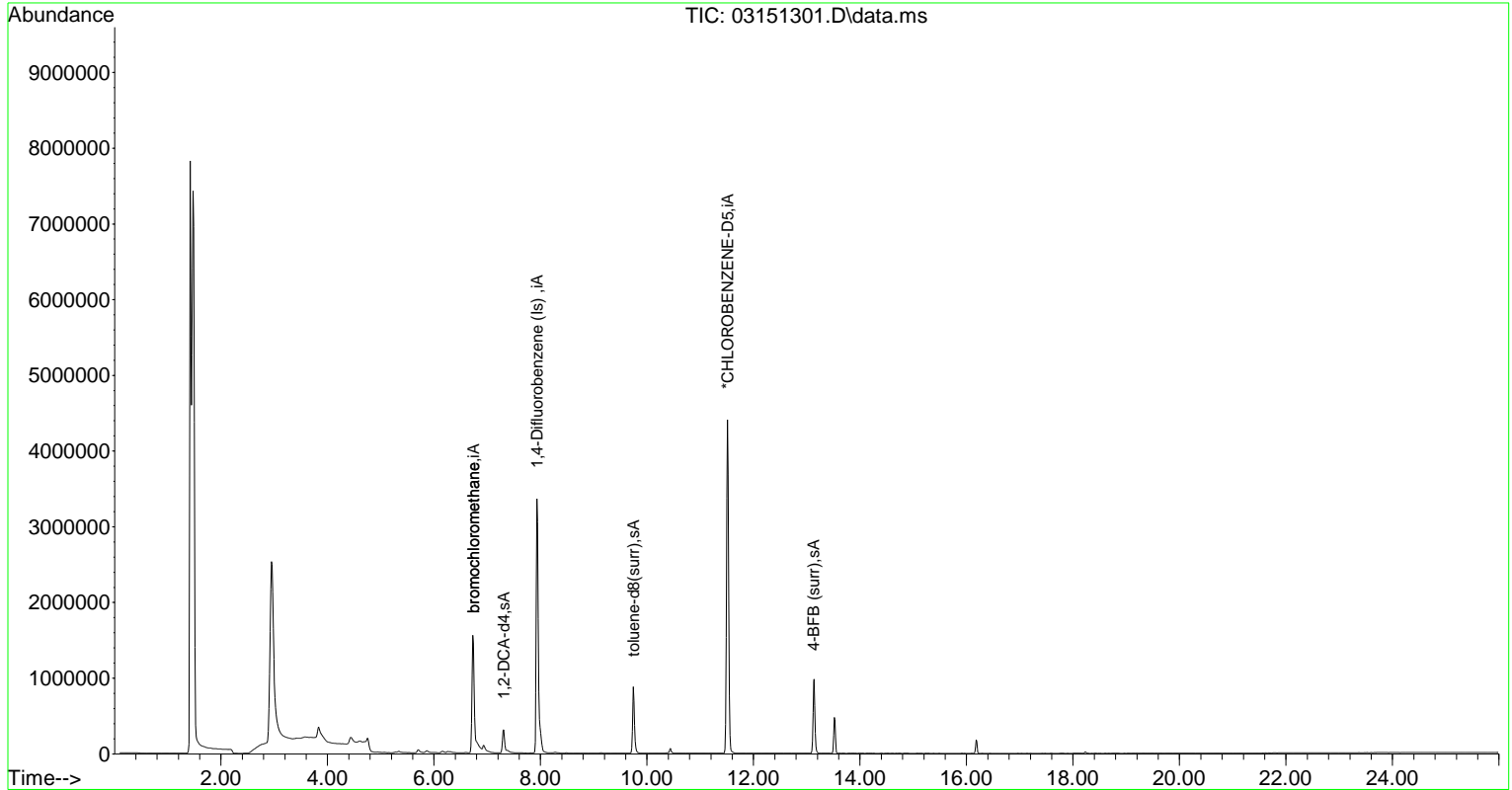
Quant Time: Apr 05 17:59:36 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 05 14:07:59 2013  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	6.739	130	1011468	50.00	nL	-0.03
39) 1,4-Difluorobenzene (Is)	7.934	114	4102585	50.00	nL	-0.03
56) *CHLOROBENZENE-D5	11.511	117	3806204	50.00	nL	-0.05
76) bromochloromethane	6.739	130	1007325	50.00	nL	0.07
System Monitoring Compounds						
22) 1,2-DCA-d4	7.308	65	259963	25.30	nL	-0.03
47) toluene-d8(surr)	9.745	98	845059	25.43	nL	-0.03
65) 4-BFB (surr)	13.128	95	544619	22.73	nL	-0.05
Target Compounds						
77) acetone	4.757	43	174218	Below Cal	#	Qvalue 100
79) Ethanol	4.438	31	141534	Below Cal	#	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 03151301.D  
 Acq On : 15 Mar 2013 9:54 am  
 Operator :  
 Sample : tune  
 Misc : T015\_SOILGAS  
 ALS Vial : 16 Sample Multiplier: 1

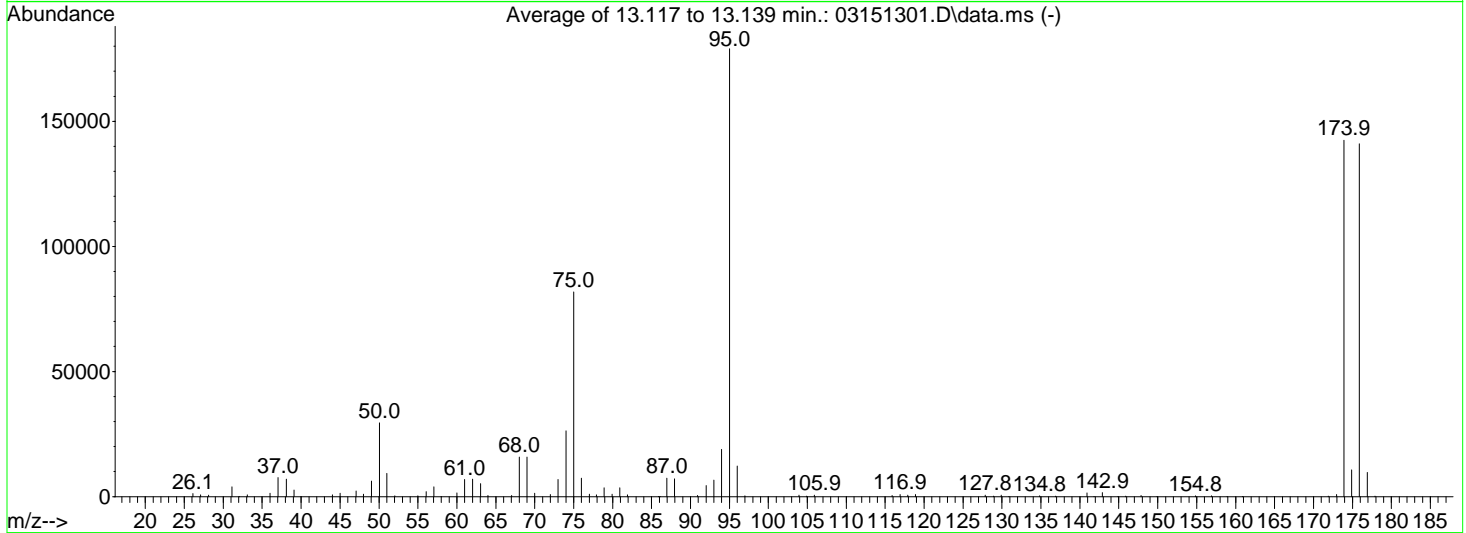
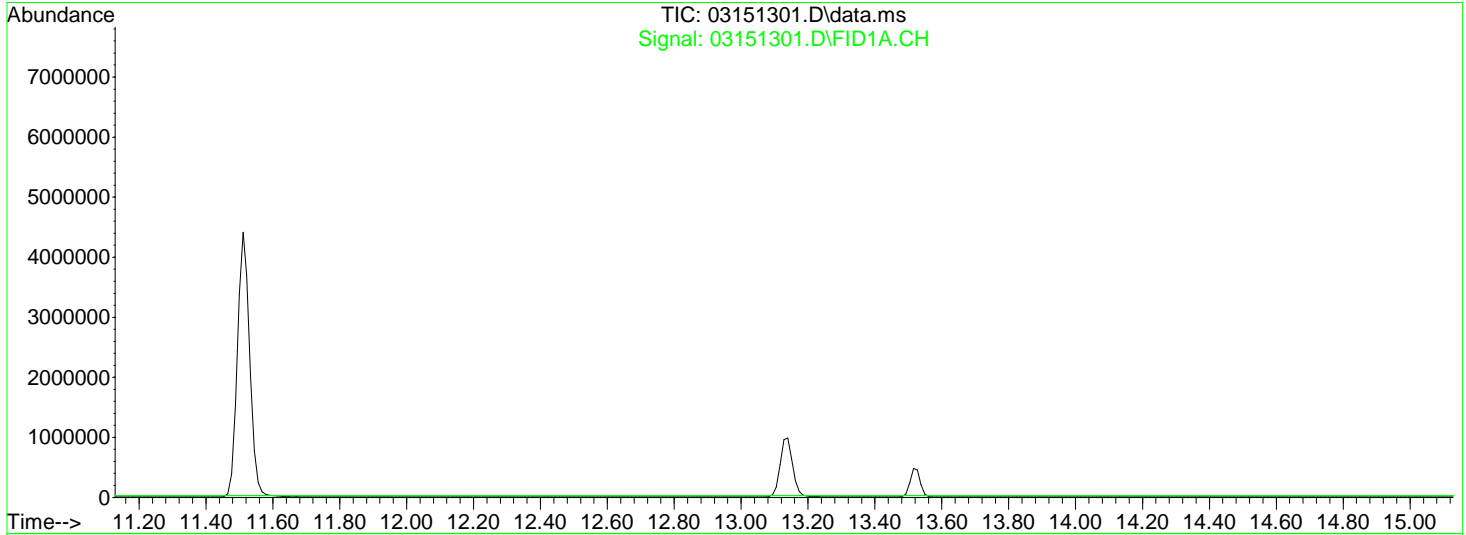
Quant Time: Apr 05 17:59:36 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\T015DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 05 14:07:59 2013  
 Response via : Initial Calibration



Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 03151301.D  
 Acq On : 15 Mar 2013 9:54 am  
 Operator :  
 Sample : tune  
 Misc : TO15\_SOILGAS  
 ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint4.p  
 Integration File signal 2: rteint2.p

Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Title : 8240 calibration table  
 Last Update : Fri Apr 05 16:52:03 2013



AutoFind: Scans 1144, 1145, 1146; Background Corrected with Scan 1138

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.5	29461	PASS
75	95	30	66	45.7	81810	PASS
95	95	100	100	100.0	179074	PASS
96	95	5	9	6.8	12252	PASS
173	174	0.00	2	0.6	888	PASS
174	95	50	100	79.6	142469	PASS
175	174	4	9	7.5	10728	PASS
176	174	93	101	99.0	141026	PASS
177	176	5	9	6.8	9646	PASS

Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 03151302.D  
 Acq On : 15 Mar 2013 10:34 am  
 Operator :  
 Sample : CCV (Sig #1); CCV (Sig #2)  
 Misc : TO15\_SOILGAS  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 12 17:11:48 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 12 16:25:09 2013  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) bromochloromethane	6.716	130	972274	50.00	nL	-0.06	
39) 1,4-Difluorobenzene (Is)	7.912	114	3919697	50.00	nL	-0.06	
56) *CHLOROBENZENE-D5	11.499	117	3700163	50.00	nL	-0.06	
76) bromochloromethane	6.716	130	972274	50.00	nL	0.05	
System Monitoring Compounds							
22) 1,2-DCA-d4	7.274	65	930017	95.89	nL	-0.07	
47) toluene-d8(surr)	9.723	98	2970275	93.69	nL	-0.06	
65) 4-BFB (surr)	13.128	95	2034590	87.30	nL	-0.05	
Target Compounds							
4) Propene (coelute w/Pro...	3.493	41	753554	4.35	nL		Qvalue # 99
5) Dichlorodifluoromethane...	3.550	85	2085786	4.43	nL		97
7) Freon 114(12dichloro-1...	3.732	85	1932290m	4.09	nL		
8) chloromethane (coelute...	3.709	50	882790m	5.33	nL		
9) vinyl chloride (HIAL= ...	3.857	62	744581	3.98	nL		96
10) 1.3-Butadiene	3.937	54	444439	3.64	nL	#	87
11) bromomethane	4.153	96	459405	4.71	nL		99
12) chloroethane	4.267	64	300528	4.59	nL	#	92
13) Trichlorofluoromethane...	4.632	101	1546244	4.96	nL		98
14) 1,1-dichloroethene	5.053	96	565810	6.03	nL		81
15) methylene dichloride	5.281	84	574883m	3.10	nL		
16) carbon disulfide	5.406	76	1952104m	4.16	nL		
17) Freon-113 (Trichlorotr...	5.155	101	1139631	6.11	nL		90
18) Acrylonitrile	5.110	53	402975	5.68	nL		97
19) trans-1,2-dichloroethene	5.770	96	938463	4.28	nL	#	75
20) vinyl acetate	5.953	43	2387416	4.66	nL	#	96
21) MTBE	5.782	73	2632696	4.08	nL	#	89
23) 1,2-Dichloroethane (HI...	7.354	62	1223008	4.28	nL	#	95
24) 1,1-dichloroethane	5.987	63	1663866	4.31	nL	#	96
25) 2-butanone (MEK)	6.226	72	562211	3.68	nL	#	73
26) OXY-DIISOPROPYL ETHER	6.283	45	3145281	4.41	nL	#	92
27) cis-1,2-dichloroethene	6.477	96	1012199	4.25	nL	#	71
29) Chloroform (HIAL= 0.045)	6.773	83	1852665	4.32	nL		95
30) Ethyl Acetate	6.511	43	2161128	4.52	nL	#	74
31) OXY-ETBE	6.647	59	2968129	4.07	nL	#	92
32) THF	6.887	42	1258001	3.78	nL	#	87
33) Cyclohexane	7.650	56	1571998	4.12	nL	#	76
34) Hexane	6.272	57	1675166	4.11	nL	#	95
35) p-Dioxane	8.481	88	667245	4.00	nL	#	81
36) 1,1,1-Trichloroethane	7.251	97	1913608	4.40	nL		97
37) benzene (HIAL= 0.013)	7.581	78	3020048	4.16	nL	#	93
38) carbon tetrachloride (...	7.616	117	1961580	4.50	nL		98
40) OXY-TAME	7.832	73	2977695	4.09	nL	#	86
41) Heptane	8.242	43	1841869	4.71	nL	#	79
42) trichloroethene	8.356	130	1410476	4.15	nL		94
43) 1,2-dichloropropane (H...	8.390	63	1130142	4.43	nL		96
44) bromdichmet (HSGI= 0.1...	8.606	83	2017201	4.56	nL		98
45) 4-methyl-2-pentanone (...	9.073	43	2363720	4.52	nL	#	91
46) cis-1,3-dichloropropen...	9.153	75	1741288	4.13	nL		98
48) toluene	9.814	92	2292385	3.88	nL		91
49) 1,1,2-trichloroethane ...	9.939	97	1260319	4.20	nL		92
50) trans-1,3-dichloroprop...	9.688	75	1614498	4.22	nL		95
51) 2-hexanone (MBK)	10.076	43	2230648	4.30	nL	#	96
52) dibromochloromethane (...	10.554	127	1654213	4.77	nL		99
53) tetrachloroethene (HIA...	10.691	164	1418497	3.75	nL		97
54) EDB (HIAL= 0.0022)	10.782	107	1882958	3.96	nL		97

Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 03151302.D  
 Acq On : 15 Mar 2013 10:34 am  
 Operator :  
 Sample : CCV (Sig #1); CCV (Sig #2)  
 Misc : TO15\_SOILGAS  
 ALS Vial : 9 Sample Multiplier: 1

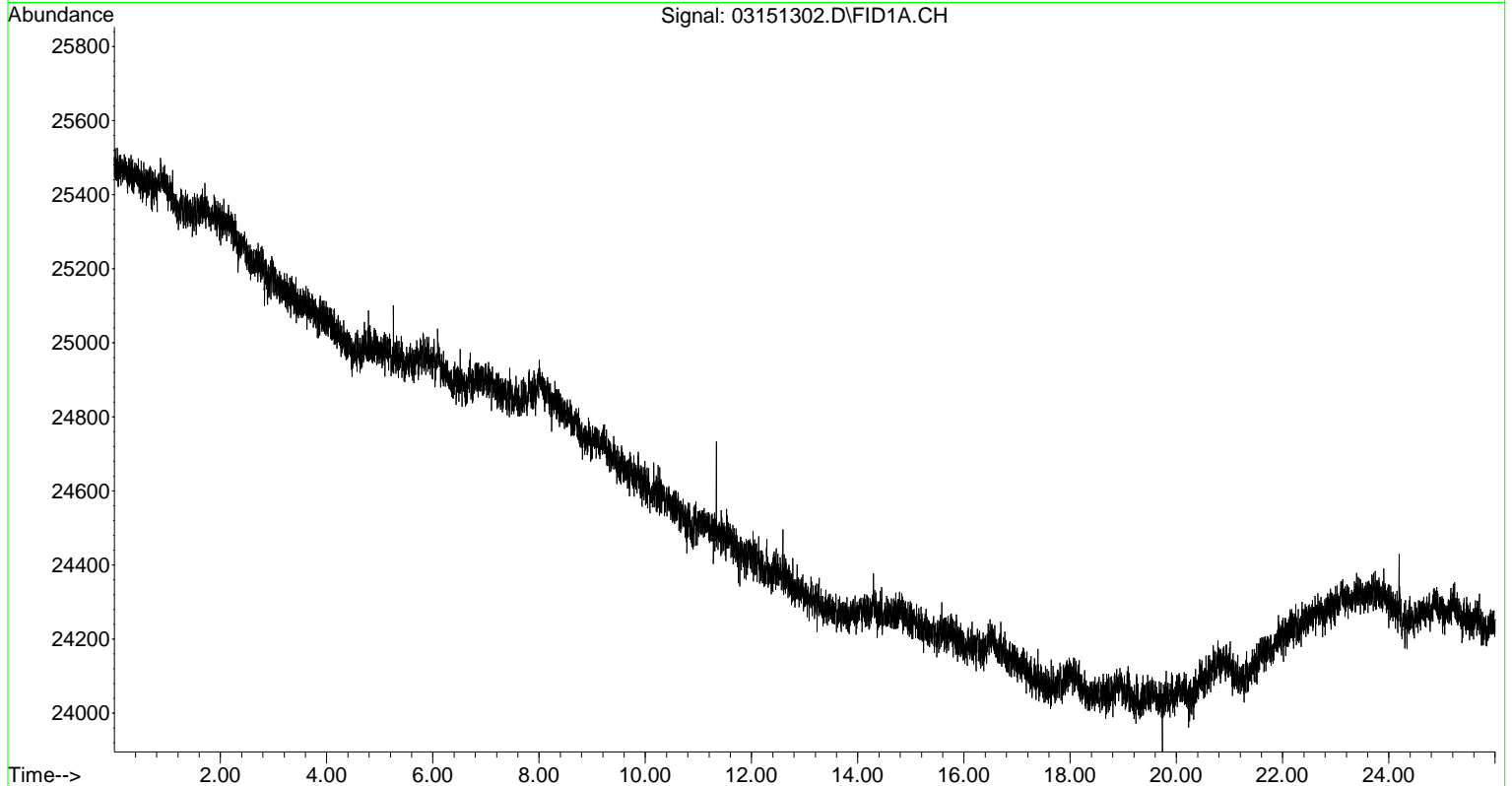
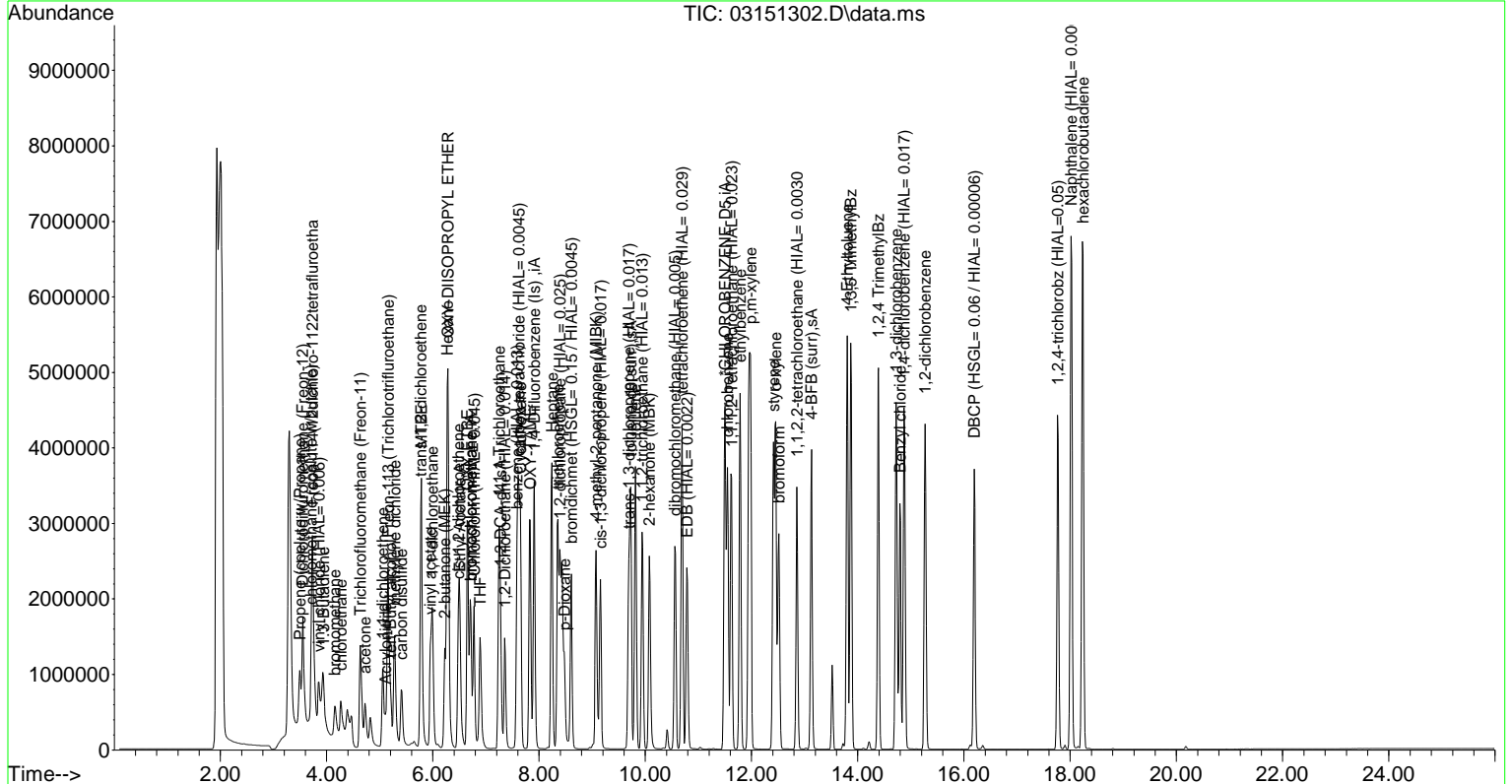
Quant Time: Apr 12 17:11:48 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 12 16:25:09 2013  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) chlorobenzene	11.545	112	2886124	4.02	nL	# 94
57) ethylbenzene	11.784	91	4686728	3.94	nL	95
58) p,m-xylene	11.978	106	3785494	7.77	nL	89
59) styrene	12.410	104	2998970	4.28	nL	99
60) o-xylene	12.456	91	4046252	4.19	nL	92
61) bromoform	12.513	173	2053928	5.24	nL	# 97
62) 4-Ethyltoluene	13.800	105	5162553	4.22	nL	95
63) 1,1,2,2-tetrachloroeth...	12.855	83	2466339	3.74	nL	97
64) 1,1,1,2-Tetrachloroeth...	11.624	131	1548227	4.39	nL	99
66) Benzyl chloride	14.791	91	3609833	3.73	nL	96
67) 1,3,5 TrimethylBz	13.868	105	4264701	3.99	nL	93
68) 1,2,4 TrimethylBz	14.392	105	4320265	3.90	nL	93
69) 1,3-dichlorobenzene	14.722	146	2982960	4.06	nL	97
70) 1,4-dichlorobenzene (H...	14.870	146	2969859	4.01	nL	97
71) 1,2-dichlorobenzene	15.269	146	2775490	4.00	nL	97
72) DBCP (HSGI= 0.06 / HIA...	16.192	157	1564002	5.20	nL	99
73) 1,2,4-trichlorobz (HIA...	17.763	180	2292336	3.67	nL	98
74) Naphthalene (HIAL= 0.0...	18.014	128	8718789	7.76	nL	# 95
75) hexachlorobutadiene	18.242	225	2150814	3.73	nL	# 92
77) acetone	4.723	43	1247967m	4.32	nL	
78) tert-Butyl alcohol	5.201	59	1260435m	3.82	nL	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 03151302.D  
 Acq On : 15 Mar 2013 10:34 am  
 Operator :  
 Sample : CCV (Sig #1); CCV (Sig #2)  
 Misc : TO15\_SOILGAS  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 12 17:11:48 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 12 16:25:09 2013  
 Response via : Initial Calibration





McC Campbell Analytical Inc. CONTINUING CALIBRATION  
TO15DWW.M

Instr: GC-24  
FileID: 03151302.D

AnalDate: 3/15/2013 10:34:00 AM

Compound Name	Avg RF/CF	CCV RF/CF	Curve Type	Spiked	Quant	%REC	Units	%Diff <sup>2</sup>	%Drift <sup>3</sup>	Max %D	Pass
1,1-Difluoroethane (leak check compd)		0.0000	AvgRF	25.00	0.00	0.00	µg/L				Y
Propene (coelute w/Propane)	12.6159	0.7750	AvgRF	25.00	21.77	87.08	µg/L	-12.92			Y
Dichlorodifluoromethane (Freon-12)	22.8504	2.1453	AvgRF	25.00	22.15	88.59	µg/L	-11.41			Y
norflurane (tetrafluoroethane leak chec	0.1950		AvgRF		0.00		µg/L	-100.00			Y
Freon 114(12dichloro-1122tetrafluoroetha	22.6296	1.9874	AvgRF	25.00	20.43	81.72	µg/L	-18.28			Y
chloromethane (coelute w/butane)	20.5720	0.9080	Quad	25.00	26.67	106.68	µg/L	6.68	6.678		Y
vinyl chloride (HIAL= 0.006)	9.4420	0.7658	AvgRF	25.00	19.91	79.66	µg/L	-20.34			Y
1,3-Butadiene	6.1700	0.4571	AvgRF	25.00	18.20	72.81	µg/L	-27.19			Y
bromomethane	4.9296	0.4725	AvgRF	25.00	23.53	94.13	µg/L	-5.87			Y
chloroethane	3.3056	0.3091	AvgRF	25.00	22.96	91.82	µg/L	-8.18			Y
Trichlorofluoromethane (Freon-11)	15.7138	1.5903	AvgRF	25.00	24.78	99.11	µg/L	-0.89			Y
1,1-dichloroethene	8.4763	0.5819	Quad	25.00	30.17	120.69	µg/L	20.69	20.694		Y
methylene dichloride	16.0869	0.5913	Line	25.00	15.48	61.91	µg/L	-38.09	-38.086		N
carbon disulfide	31.8535	2.0078	Line	25.00	20.82	83.29	µg/L	-16.71	-16.712		Y
Freon-113 (Trichlorotrifluoroethane)	18.2312	1.1721	Quad	25.00	30.54	122.15	µg/L	22.15	22.154		Y
Acrylonitrile	6.3586	0.4145	Quad	25.00	28.40	113.60	µg/L	13.60	13.604		Y
trans-1,2-dichloroethene	11.0816	0.9652	AvgRF	25.00	21.39	85.57	µg/L	-14.43			Y
vinyl acetate	25.9272	2.4555	AvgRF	25.00	23.29	93.15	µg/L	-6.85			Y
MTBE	32.5902	2.7078	AvgRF	25.00	20.39	81.57	µg/L	-18.43			Y
1,2-DCA-d4	0.5076	0.0478	AvgRF	500.00	479.45	95.89	µg/L	-4.11			Y
1,2-Dichloroethane (HIAL= 0.014)	14.4316	1.2579	AvgRF	25.00	21.41	85.64	µg/L	-14.36			Y
1,1-dichloroethane	19.5026	1.7113	AvgRF	25.00	21.54	86.15	µg/L	-13.85			Y
2-butanone (MEK)	7.5649	0.5782	AvgRF	25.00	18.40	73.61	µg/L	-26.39			Y
OXY-DIISOPROPYL ETHER	35.9566	3.2350	AvgRF	25.00	22.06	88.25	µg/L	-11.75			Y
cis-1,2-dichloroethene	12.0426	1.0411	AvgRF	25.00	21.26	85.04	µg/L	-14.96			Y
3-Chloroprene (1,3-Butadiene, 3-Cl) (NOT		0.0000	AvgRF	25.00	0.00	0.00	µg/L				Y
Chloroform (HIAL= 0.045)	21.6758	1.9055	AvgRF	25.00	21.62	86.46	µg/L	-13.54			Y
Ethyl Acetate	24.1627	2.2228	AvgRF	25.00	22.58	90.30	µg/L	-9.70			Y
OXY-ETBE	36.8481	3.0528	AvgRF	25.00	20.34	81.37	µg/L	-18.63			Y
THF	16.6059	1.2939	AvgRF	25.00	18.92	75.67	µg/L	-24.33			Y
Cyclohexane	19.3203	1.6168	AvgRF	25.00	20.58	82.34	µg/L	-17.66			Y
Hexane	21.4930	1.7229	AvgRF	25.00	20.56	82.23	µg/L	-17.77			Y
p-Dioxane	8.4377	0.6863	AvgRF	25.00	19.99	79.96	µg/L	-20.04			Y
1,1,1-Trichloroethane	21.9948	1.9682	AvgRF	25.00	22.00	88.02	µg/L	-11.98			Y
benzene (HIAL= 0.013)	36.7477	3.1062	AvgRF	25.00	20.78	83.10	µg/L	-16.90			Y
carbon tetrachloride (HIAL= 0.0045)	22.0159	2.0175	AvgRF	25.00	22.52	90.07	µg/L	-9.93			Y
OXY-TAME	8.8104	0.7597	AvgRF	25.00	20.44	81.74	µg/L	-18.26			Y
Heptane	4.8692	0.4699	AvgRF	25.00	23.57	94.28	µg/L	-5.72			Y
trichloroethene	4.2672	0.3598	AvgRF	25.00	20.73	82.93	µg/L	-17.07			Y
1,2-dichloropropane (HIAL= 0.025)	3.2028	0.2883	AvgRF	25.00	22.13	88.54	µg/L	-11.46			Y
bromodichmet (HSGL= 0.15 / HIAL= 0.0045)	5.5460	0.5146	AvgRF	25.00	22.82	91.27	µg/L	-8.73			Y
4-methyl-2-pentanone (MIBK)	6.5410	0.6030	AvgRF	25.00	22.61	90.43	µg/L	-9.57			Y
cis-1,3-dichloropropene (HIAL= 0.017)	5.2873	0.4442	AvgRF	25.00	20.66	82.66	µg/L	-17.34			Y
toluene-d8(surr)	0.4049	0.0379	AvgRF	500.00	468.47	93.69	µg/L	-6.31			Y
toluene	7.3990	0.5848	AvgRF	25.00	19.42	77.66	µg/L	-22.34			Y
1,1,2-trichloroethane (HIAL= 0.013)	3.7686	0.3215	AvgRF	25.00	20.98	83.92	µg/L	-16.08			Y
trans-1,3-dichloropropene (HIAL= 0.017)	4.8147	0.4119	AvgRF	25.00	21.08	84.33	µg/L	-15.67			Y
2-hexanone (MBK)	6.5074	0.5691	AvgRF	25.00	21.52	86.07	µg/L	-13.93			Y
dibromochloromethane (HIAL= 0.005)	4.3538	0.4220	AvgRF	25.00	23.85	95.40	µg/L	-4.60			Y
tetrachloroethene (HIAL= 0.029)	4.7391	0.3619	AvgRF	25.00	18.77	75.09	µg/L	-24.91			Y
EDB (HIAL= 0.0022)	5.9600	0.4804	AvgRF	25.00	19.80	79.19	µg/L	-20.81			Y
chlorobenzene	8.8992	0.7363	AvgRF	25.00	20.11	80.43	µg/L	-19.57			Y
ethylbenzene	15.7877	1.2666	AvgRF	25.00	19.72	78.87	µg/L	-21.13			Y
p,m-xylene	6.5812	0.5115	AvgRF	50.00	38.86	77.73	µg/L	-22.27			Y
styrene	10.2229	0.8105	Quad	25.00	21.42	85.67	µg/L	-14.33	-14.328		Y
o-xylene	13.6743	1.0935	AvgRF	25.00	20.94	83.74	µg/L	-16.26			Y
bromoform	5.2192	0.5551	AvgRF	25.00	26.19	104.77	µg/L	4.77			Y
4-Ethyltoluene	19.1161	1.3952	Quad	25.00	21.12	84.47	µg/L	-15.53	-15.528		Y
1,1,2,2-tetrachloroethane (HIAL= 0.0030)	8.7481	0.6665	AvgRF	25.00	18.71	74.83	µg/L	-25.17			Y
1,1,1,2-Tetrachloroethane (HIAL= 0.023)	4.6877	0.4184	AvgRF	25.00	21.97	87.86	µg/L	-12.14			Y
4-BFB (surr)	0.3149	0.0275	AvgRF	500.00	436.51	87.30	µg/L	-12.70			Y
Benzyl chloride	13.0778	0.9756	AvgRF	25.00	18.63	74.51	µg/L	-25.49			Y
1,3,5 TrimethylBz	14.1478	1.1526	AvgRF	25.00	19.96	79.83	µg/L	-20.17			Y
1,2,4 TrimethylBz	14.6541	1.1676	AvgRF	25.00	19.52	78.07	µg/L	-21.93			Y
1,3-dichlorobenzene	12.1698	0.8062	Line	25.00	20.28	81.14	µg/L	-18.86	-18.864		Y
1,4-dichlorobenzene (HIAL= 0.017)	12.3491	0.8026	Line	25.00	20.06	80.23	µg/L	-19.77	-19.77		Y
1,2-dichlorobenzene	11.5054	0.7501	Line	25.00	20.02	80.07	µg/L	-19.93	-19.934		Y
DBCP (HSGL= 0.06 / HIAL= 0.00006)	4.0027	0.4227	AvgRF	25.00	26.00	103.99	µg/L	3.99			Y
1,2,4-trichlorobz (HIAL=0.05)	9.7663	0.6195	Quad	25.00	18.36	73.46	µg/L	-26.54	-26.544		Y
Naphthalene (HIAL= 0.0065)	29.8516	2.3563	AvgRF	50.00	38.78	77.56	µg/L	-22.44			Y
hexachlorobutadiene	9.7512	0.5813	Quad	25.00	18.65	74.58	µg/L	-25.42	-25.416		Y
acetone	16.0838	1.2836	Quad	25.00	21.58	86.32	µg/L	-13.68	-13.68		Y
tert-Butyl alcohol	16.9620	1.2964	AvgRF	25.00	19.11	76.43	µg/L	-23.57			Y

Average of the Responses\*

17

Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 03151303.D  
 Acq On : 15 Mar 2013 11:14 am  
 Operator :  
 Sample : MB-75598 (Sig #1); MB (Sig #2)  
 Misc : TO15\_SOILGAS  
 ALS Vial : 16 Sample Multiplier: 1

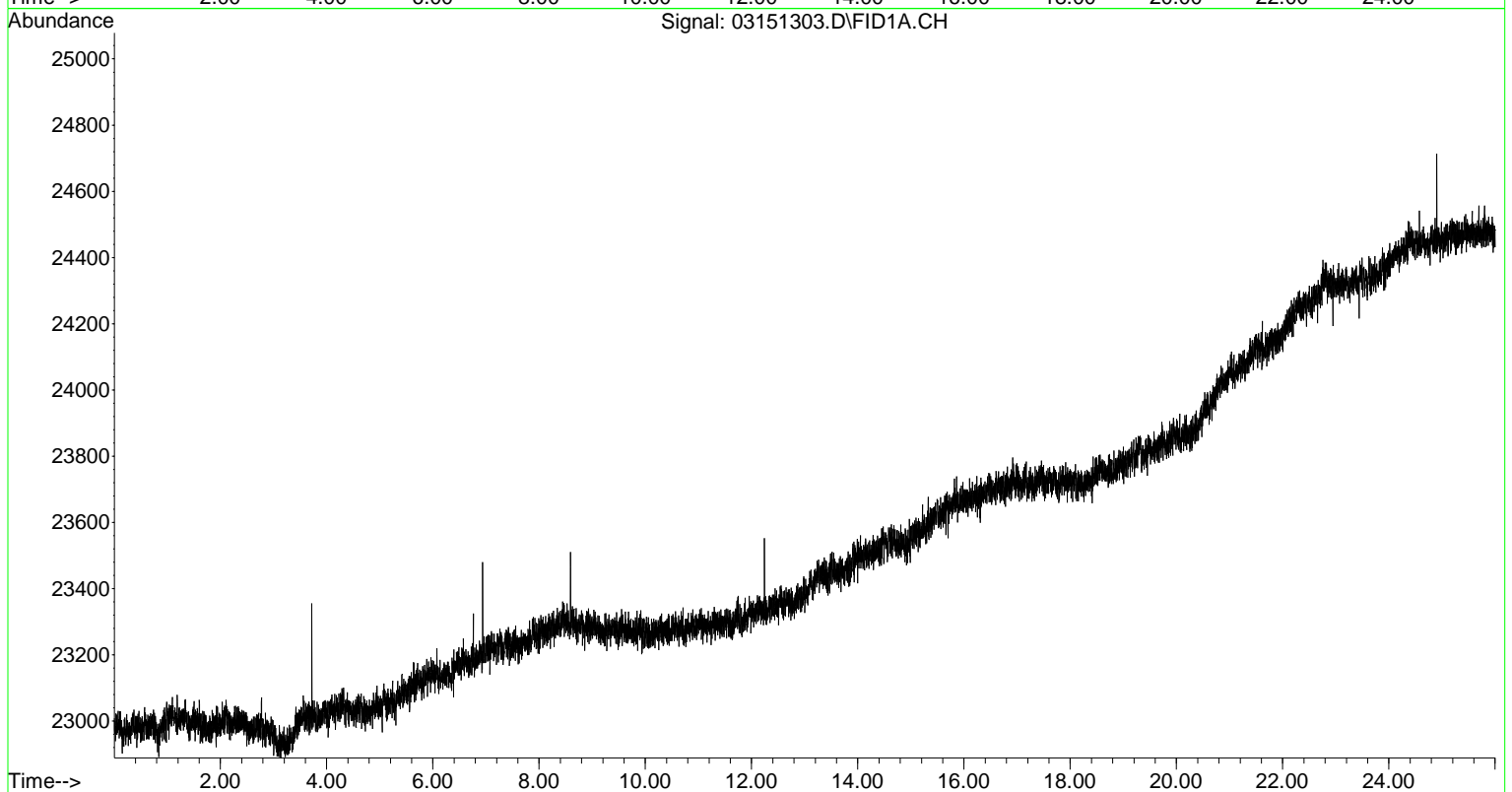
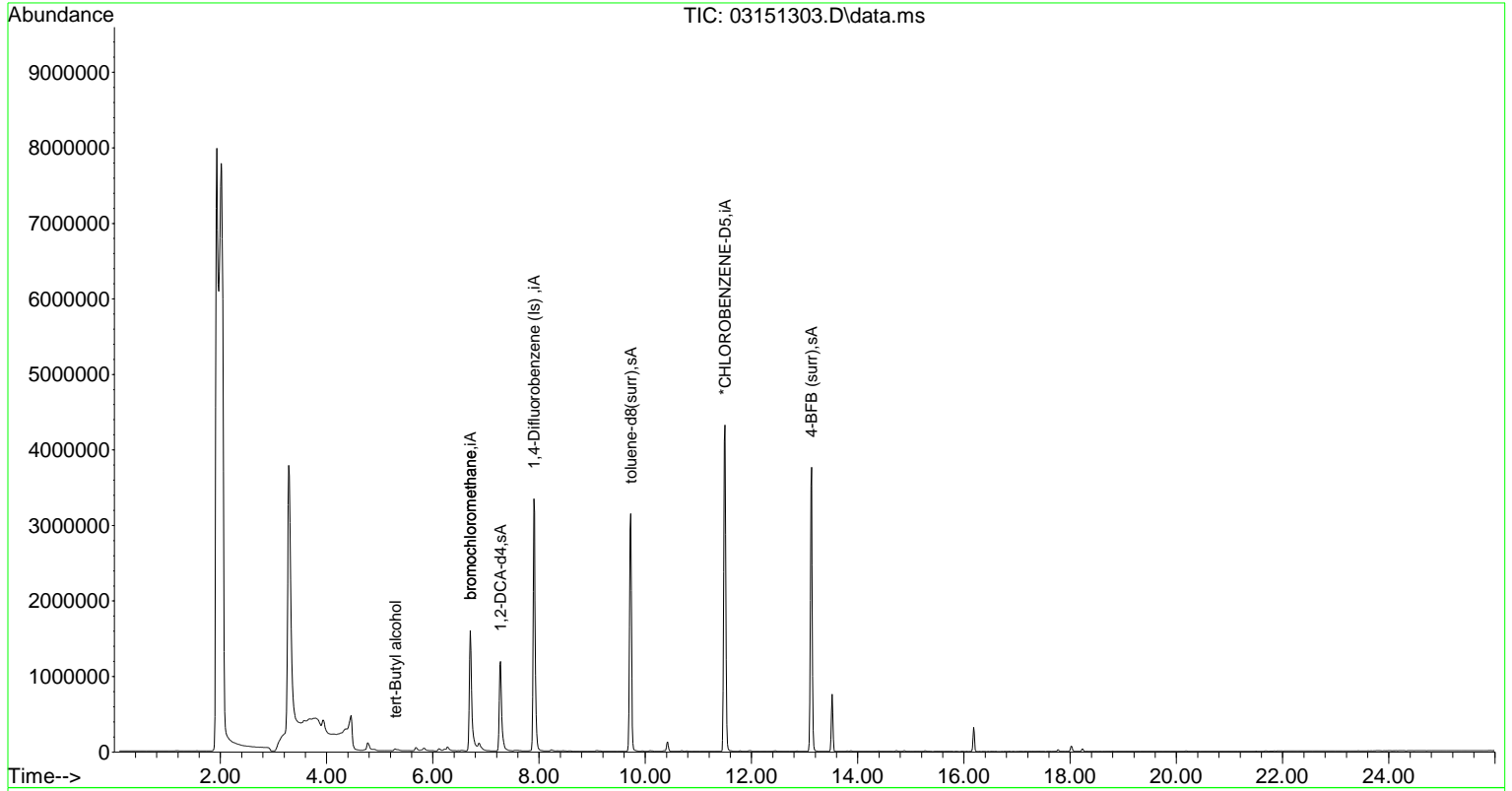
Quant Time: Apr 12 17:52:25 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 05 15:53:14 2013  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	6.704	130	978396	50.00	nL	-0.07
39) 1,4-Difluorobenzene (Is)	7.900	114	4036802	50.00	nL	-0.07
56) *CHLOROBENZENE-D5	11.499	117	3734139	50.00	nL	-0.06
76) bromochloromethane	6.704	130	976408	50.00	nL	0.03
System Monitoring Compounds						
22) 1,2-DCA-d4	7.274	65	974769	99.87	nL	-0.07
47) toluene-d8(surr)	9.723	98	3007188	92.11	nL	-0.06
65) 4-BFB (surr)	13.128	95	2029227	86.28	nL	-0.05
Target Compounds						
78) tert-Butyl alcohol	5.292	59	24715	0.07	nL	Qvalue # 100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 03151303.D  
 Acq On : 15 Mar 2013 11:14 am  
 Operator :  
 Sample : MB-75598 (Sig #1); MB (Sig #2)  
 Misc : TO15\_SOILGAS  
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 12 17:52:25 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 05 15:53:14 2013  
 Response via : Initial Calibration



Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 03151310.D  
 Acq On : 15 Mar 2013 6:38 pm  
 Operator :  
 Sample : LCS-75598 (Sig #1); LCSD (Sig #2)  
 Misc : TO15\_SOILGAS  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 12 17:14:06 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 12 16:25:09 2013  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) bromochloromethane	6.716	130	1009595	50.00	nL	-0.06	
39) 1,4-Difluorobenzene (Is)	7.912	114	4047172	50.00	nL	-0.06	
56) *CHLOROBENZENE-D5	11.499	117	3802044	50.00	nL	-0.06	
76) bromochloromethane	6.716	130	1009595	50.00	nL	0.05	
System Monitoring Compounds							
22) 1,2-DCA-d4	7.274	65	928093	92.15	nL	-0.07	
47) toluene-d8(surr)	9.723	98	2991548	91.39	nL	-0.06	
65) 4-BFB (surr)	13.117	95	2049235	85.58	nL	-0.06	
Target Compounds							
							Qvalue
4) Propene (coelute w/Pro...	3.515	41	759768m	4.23	nL		
5) Dichlorodifluoromethane...	3.572	85	2043028	4.18	nL	#	97
7) Freon 114(12dichloro-1...	3.743	85	1828906m	3.72	nL		
8) chloromethane (coelute...	3.720	50	875887m	4.45	nL		
9) vinyl chloride (HIAL= ...	3.869	62	740702m	3.82	nL		
10) 1.3-Butadiene	3.948	54	437038m	3.45	nL		
11) bromomethane	4.176	96	463979	4.58	nL		98
12) chloroethane	4.279	64	304449	4.48	nL	#	91
13) Trichlorofluoromethane...	4.643	101	1439003	4.44	nL		97
14) 1,1-dichloroethene	5.064	96	561064	5.68	nL		79
15) methylene dichloride	5.292	84	584488m	3.03	nL		
16) carbon disulfide	5.417	76	1865568m	3.76	nL		
17) Freon-113 (Trichlorotr...	5.156	101	1098779	5.52	nL		95
18) Acrylonitrile	5.110	53	424620	5.77	nL		97
19) trans-1,2-dichloroethene	5.771	96	933376	4.10	nL	#	76
20) vinyl acetate	5.964	43	2409886	4.53	nL	#	95
21) MTBE	5.793	73	2629991	3.92	nL	#	89
23) 1,2-Dichloroethane (HI...	7.354	62	1206616	4.07	nL	#	95
24) 1,1-dichloroethane	5.998	63	1647797	4.11	nL	#	94
25) 2-butanone (MEK)	6.226	72	569790	3.59	nL	#	73
26) OXY-DIISOPROPYL ETHER	6.294	45	3165008	4.28	nL	#	87
27) cis-1,2-dichloroethene	6.488	96	1019141	4.12	nL	#	71
29) Chloroform (HIAL= 0.045)	6.773	83	1837662	4.13	nL		95
30) Ethyl Acetate	6.511	43	2164995	4.36	nL	#	71
31) OXY-ETBE	6.659	59	2991529	3.95	nL	#	90
32) THF	6.887	42	1288832	3.73	nL	#	88
33) Cyclohexane	7.650	56	1570099	3.96	nL	#	77
34) Hexane	6.272	57	1681198	3.97	nL	#	95
35) p-Dioxane	8.481	88	672491	3.88	nL	#	80
36) 1,1,1-Trichloroethane	7.251	97	1887580	4.18	nL		97
37) benzene (HIAL= 0.013)	7.593	78	3012491	3.99	nL	#	92
38) carbon tetrachloride (...)	7.616	117	1921043	4.25	nL		98
40) OXY-TAME	7.832	73	3009536	4.00	nL	#	86
41) Heptane	8.242	43	1841888	4.57	nL	#	79
42) trichloroethene	8.356	130	1411389	4.02	nL		93
43) 1,2-dichloropropane (H...	8.390	63	1130500	4.29	nL		96
44) bromdichmet (HSGI= 0.1...	8.606	83	1995595	4.37	nL		97
45) 4-methyl-2-pentanone (...)	9.073	43	2359183	4.37	nL	#	90
46) cis-1,3-dichloropropen...	9.153	75	1737978	3.99	nL		97
48) toluene	9.814	92	2282559	3.74	nL		91
49) 1,1,2-trichloroethane ...	9.939	97	1246421	4.02	nL		91
50) trans-1,3-dichloroprop...	9.688	75	1614501	4.08	nL		95
51) 2-hexanone (MBK)	10.076	43	2223926	4.16	nL	#	96
52) dibromochloromethane (...)	10.554	127	1628792	4.55	nL		99
53) tetrachloroethene (HIA...	10.691	164	1411746	3.62	nL		97
54) EDB (HIAL= 0.0022)	10.782	107	1861319	3.79	nL		97

Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 03151310.D  
 Acq On : 15 Mar 2013 6:38 pm  
 Operator :  
 Sample : LCS-75598 (Sig #1); LCSD (Sig #2)  
 Misc : TO15\_SOILGAS  
 ALS Vial : 9 Sample Multiplier: 1

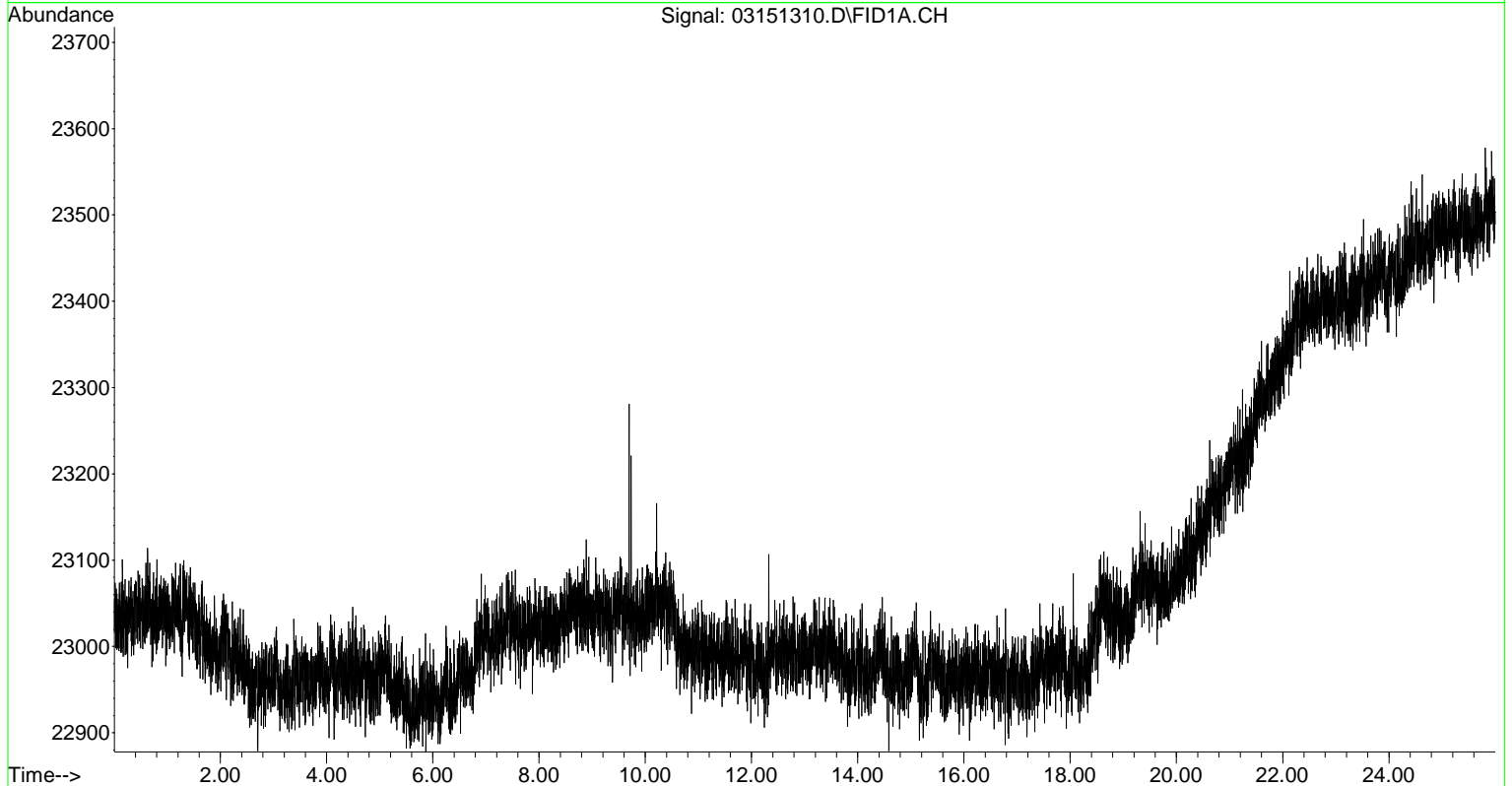
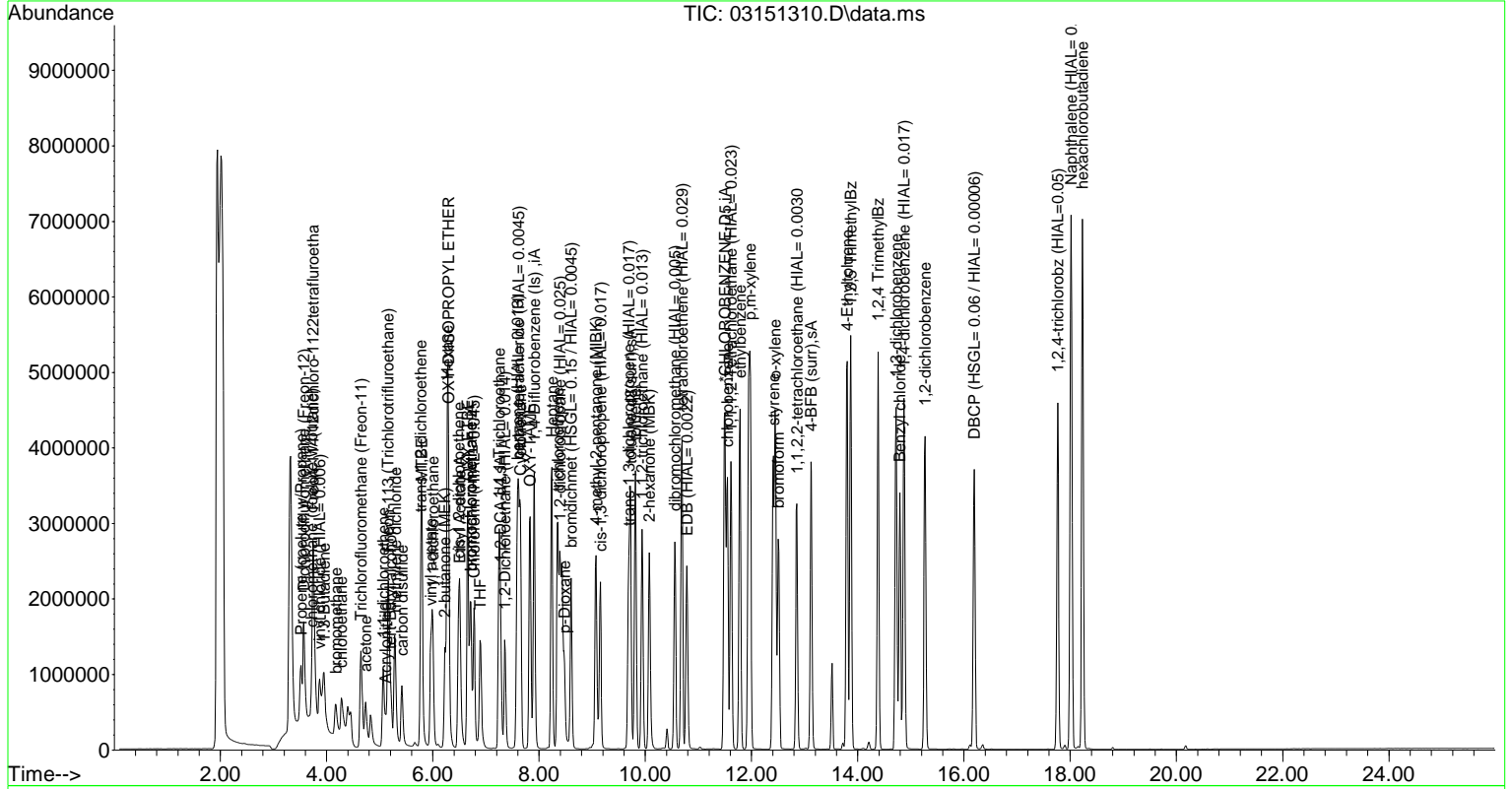
Quant Time: Apr 12 17:14:06 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 12 16:25:09 2013  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) chlorobenzene	11.545	112	2870928	3.87	nL	# 92
57) ethylbenzene	11.784	91	4639723	3.80	nL	95
58) p,m-xylene	11.966	106	3769482	7.53	nL	90
59) styrene	12.410	104	3004905	4.17	nL	98
60) o-xylene	12.445	91	4026426	4.05	nL	94
61) bromoform	12.502	173	2029138	5.04	nL	# 98
62) 4-Ethyltoluene	13.800	105	5135402	4.06	nL	95
63) 1,1,2,2-tetrachloroeth...	12.855	83	2432724	3.59	nL	# 97
64) 1,1,1,2-Tetrachloroeth...	11.613	131	1536689	4.24	nL	99
66) Benzyl chloride	14.791	91	3613180	3.63	nL	# 95
67) 1,3,5 TrimethylBz	13.868	105	4176720	3.80	nL	93
68) 1,2,4 TrimethylBz	14.381	105	4301522	3.78	nL	94
69) 1,3-dichlorobenzene	14.722	146	2957606	3.91	nL	97
70) 1,4-dichlorobenzene (H...	14.871	146	2955099	3.88	nL	97
71) 1,2-dichlorobenzene	15.269	146	2765303	3.88	nL	97
72) DBCP (HSGL= 0.06 / HIA...	16.192	157	1557186	5.04	nL	99
73) 1,2,4-trichlorobz (HIA...	17.763	180	2300681	3.58	nL	98
74) Naphthalene (HIAL= 0.0...	18.014	128	8814628	7.63	nL	95
75) hexachlorobutadiene	18.230	225	2154296	3.62	nL	# 94
77) acetone	4.734	43	1291664m	4.30	nL	
78) tert-Butyl alcohol	5.201	59	1295560m	3.78	nL	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 03151310.D  
 Acq On : 15 Mar 2013 6:38 pm  
 Operator :  
 Sample : LCS-75598 (Sig #1); LCSD (Sig #2)  
 Misc : TO15\_SOILGAS  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 12 17:14:06 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 12 16:25:09 2013  
 Response via : Initial Calibration



Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 03151316.D  
 Acq On : 15 Mar 2013 11:12 pm  
 Operator :  
 Sample : 1303408-002A ppmv  
 Misc : TO15\_SOILGAS  
 ALS Vial : 2 Sample Multiplier: 1

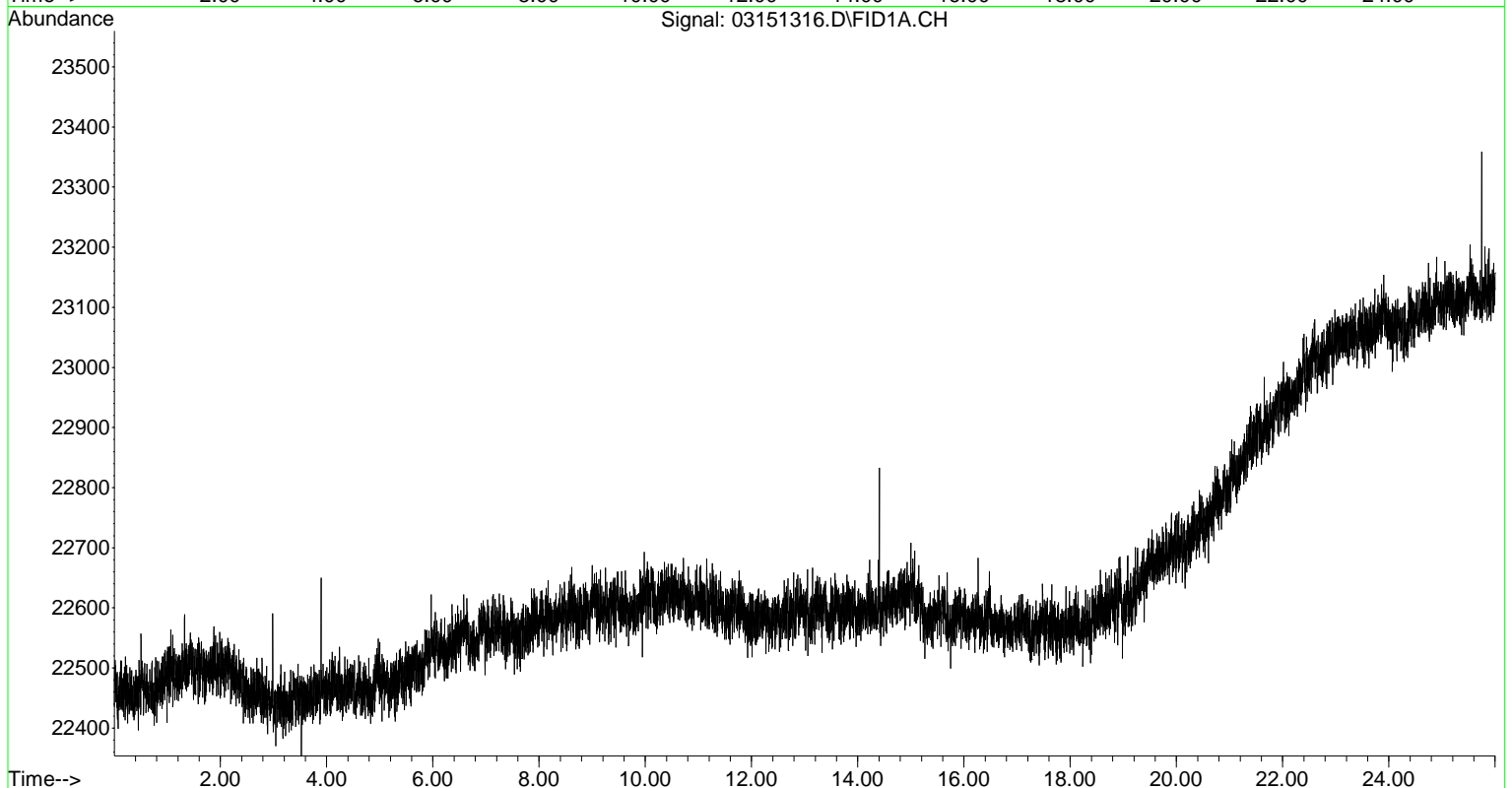
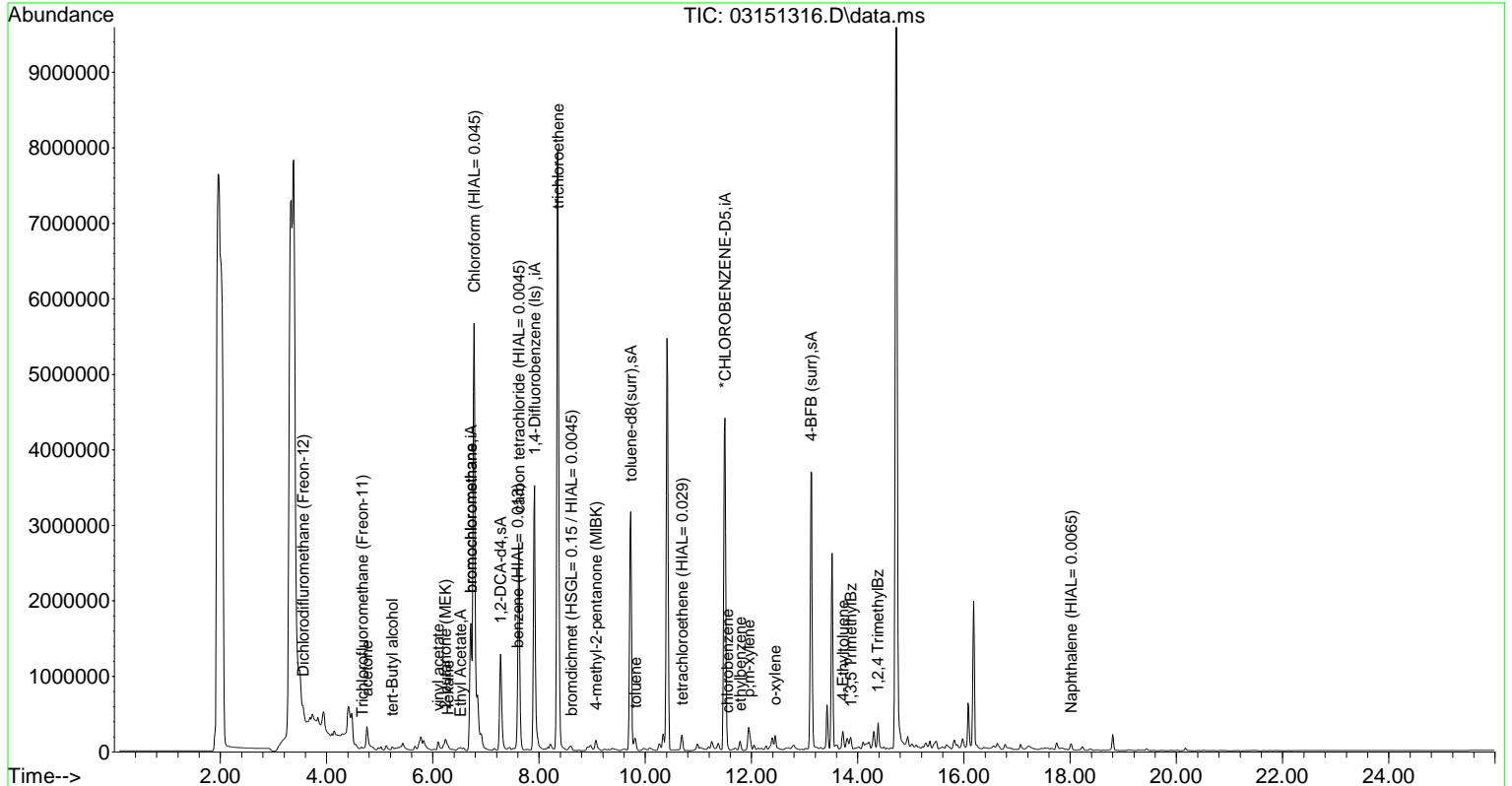
Quant Time: Apr 16 13:11:19 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Mon Apr 15 14:29:45 2013  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) bromochloromethane	6.716	130	938158	50.00	nL	-0.06	
39) 1,4-Difluorobenzene (Is)	7.912	114	3902790	50.00	nL	-0.06	
56) *CHLOROBENZENE-D5	11.499	117	3680710	50.00	nL	-0.06	
76) bromochloromethane	6.716	130	938158	50.00	nL	0.05	
System Monitoring Compounds							
22) 1,2-DCA-d4	7.274	65	914677	97.74	nL	-0.07	
47) toluene-d8(surr)	9.723	98	2910875	92.22	nL	-0.06	
65) 4-BFB (surr)	13.117	95	2006097	86.54	nL	-0.06	
Target Compounds							
5) Dichlorodifluoromethane...	3.561	85	95092	0.21	nL		Qvalue # 95
13) Trichlorofluoromethane...	4.666	101	33736	0.11	nL		99
20) vinyl acetate	6.101	43	207579	0.42	nL		# 87
25) 2-butanone (MEK)	6.237	72	78067	0.53	nL		# 73
29) Chloroform (HIAL= 0.045)	6.773	83	5936300	14.36	nL		94
30) Ethyl Acetate	6.522	43	48253m	0.10	nL		
34) Hexane	6.283	57	52015	0.13	nL		# 90
37) benzene (HIAL= 0.013)	7.593	78	166141	0.24	nL		# 92
38) carbon tetrachloride (...)	7.616	117	2091200	4.98	nL		98
42) trichloroethene	8.356	130	3982873	11.76	nL		96
44) bromdichmet (HSGL= 0.1...	8.606	83	39763	0.09	nL		99
45) 4-methyl-2-pentanone (...)	9.073	43	115939m	0.22	nL		
48) toluene	9.814	92	59388	0.10	nL		99
53) tetrachloroethene (HIA...	10.691	164	67455	0.18	nL		98
55) chlorobenzene	11.545	112	22392	0.03	nL		# 96
57) ethylbenzene	11.784	91	107129	0.09	nL		98
58) p,m-xylene	11.943	106	161261	0.33	nL		95
60) o-xylene	12.445	91	154362	0.16	nL		97
62) 4-Ethyltoluene	13.720	105	182478	0.12	nL		96
67) 1,3,5 TrimethylBz	13.868	105	71527	0.07	nL		# 96
68) 1,2,4 TrimethylBz	14.381	105	276372	0.25	nL		98
74) Naphthalene (HIAL= 0.0...	18.014	128	94384	0.08	nL		99
77) acetone	4.757	43	550979m	1.28	nL		
78) tert-Butyl alcohol	5.235	59	86919m	0.27	nL		

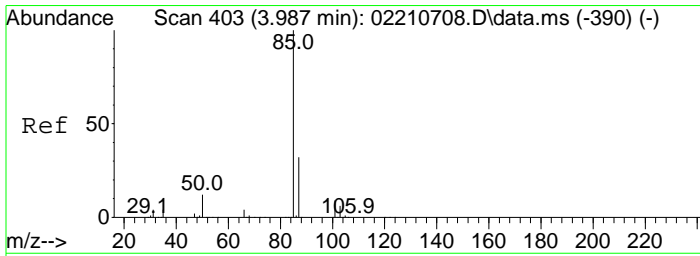
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 03151316.D  
 Acq On : 15 Mar 2013 11:12 pm  
 Operator :  
 Sample : 1303408-002A ppmv  
 Misc : TO15\_SOILGAS  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 16 13:11:19 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Mon Apr 15 14:29:45 2013  
 Response via : Initial Calibration

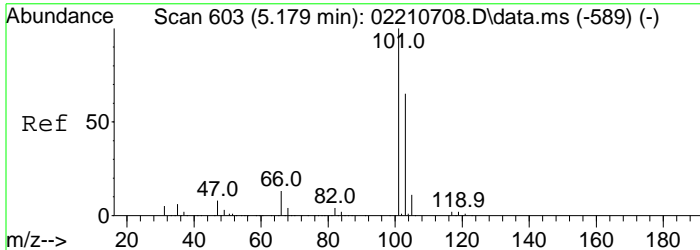
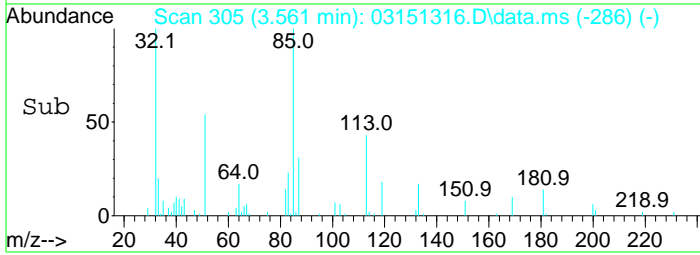
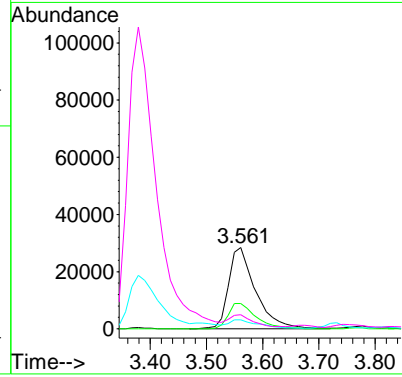
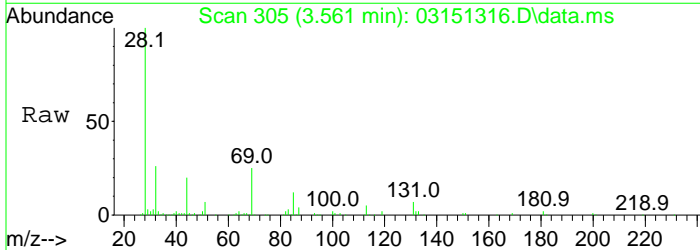






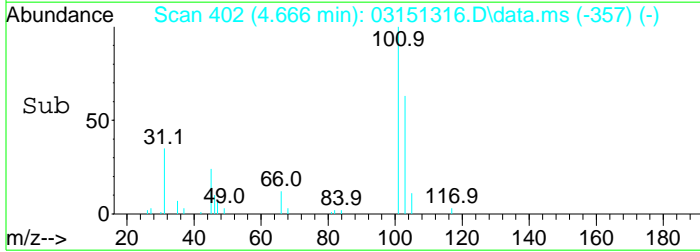
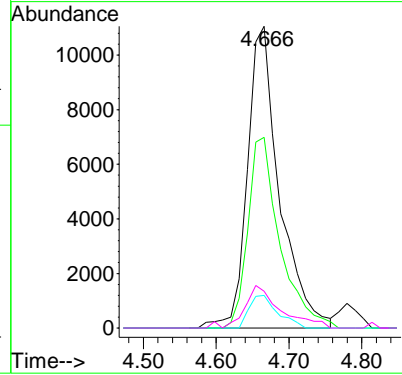
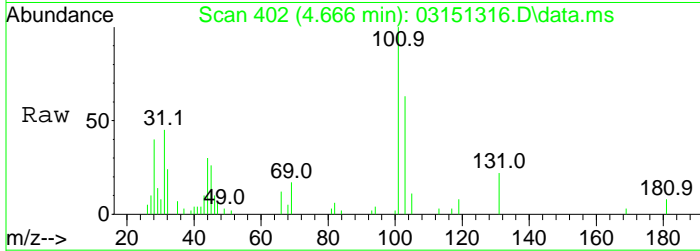
#5  
 Dichlorodifluoromethane (Freon-12)  
 Concen: 0.21 nL  
 RT: 3.561 min Scan# 305  
 Delta R.T. 0.012 min  
 Lab File: 03151316.D  
 Acq: 15 Mar 2013 11:12 pm

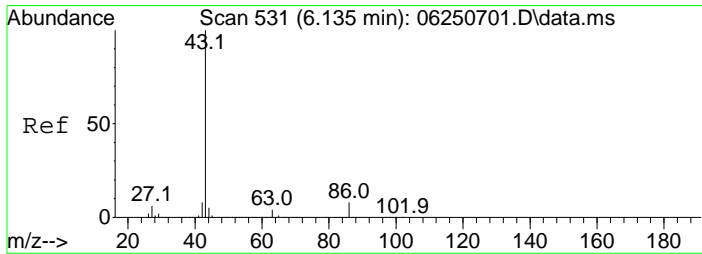
Tgt Ion	Resp	Lower	Upper
85	100		
87	31.2	24.4	40.8
101	11.3	7.3	10.9#
50	17.4	10.6	15.8#



#13  
 Trichlorofluoromethane (Freon-11)  
 Concen: 0.11 nL  
 RT: 4.666 min Scan# 402  
 Delta R.T. 0.012 min  
 Lab File: 03151316.D  
 Acq: 15 Mar 2013 11:12 pm

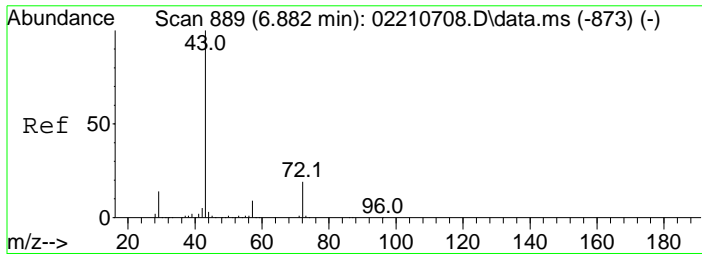
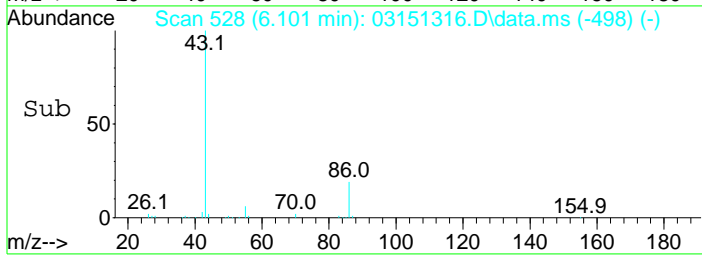
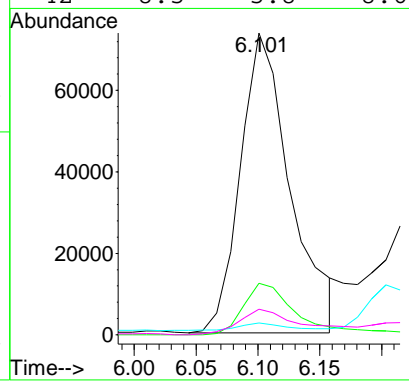
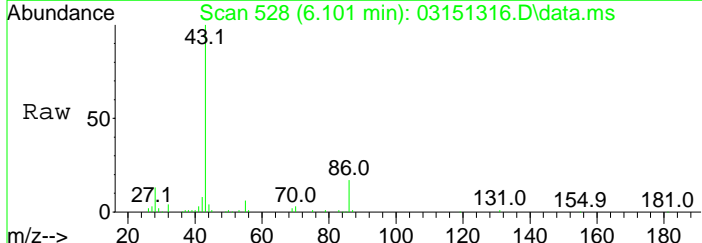
Tgt Ion	Resp	Lower	Upper
101	100		
103	63.2	51.6	77.4
105	10.8	8.6	12.8
66	12.2	10.0	15.0





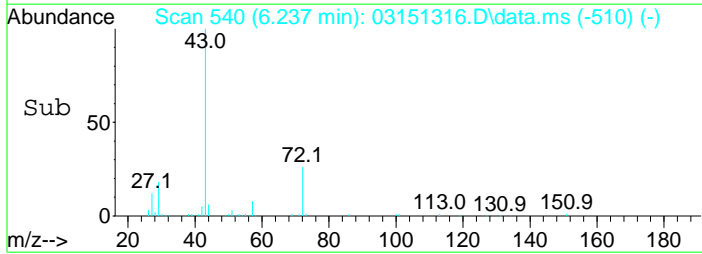
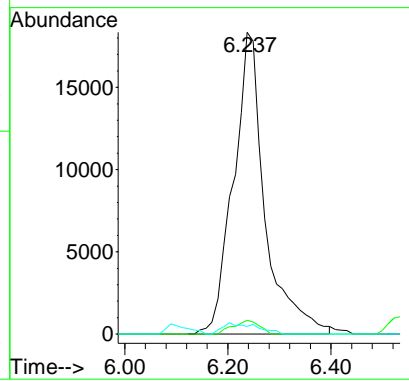
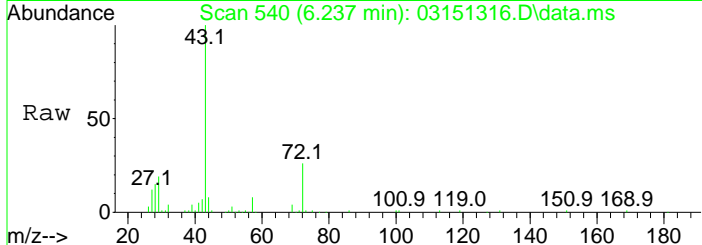
#20  
 vinyl acetate  
 Concen: 0.42 nL  
 RT: 6.101 min Scan# 528  
 Delta R.T. 0.092 min  
 Lab File: 03151316.D  
 Acq: 15 Mar 2013 11:12 pm

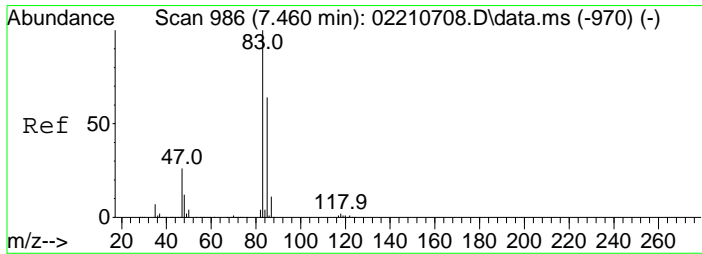
Tgt Ion	Resp	Lower	Upper
43	100		
86	17.0	5.6	8.4#
44	3.9	4.1	6.1#
42	8.5	5.8	8.6



#25  
 2-butanone (MEK)  
 Concen: 0.53 nL  
 RT: 6.237 min Scan# 540  
 Delta R.T. -0.057 min  
 Lab File: 03151316.D  
 Acq: 15 Mar 2013 11:12 pm

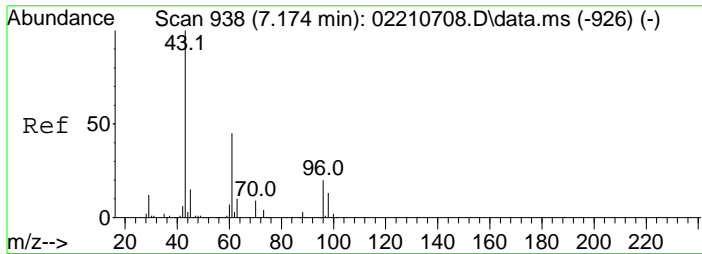
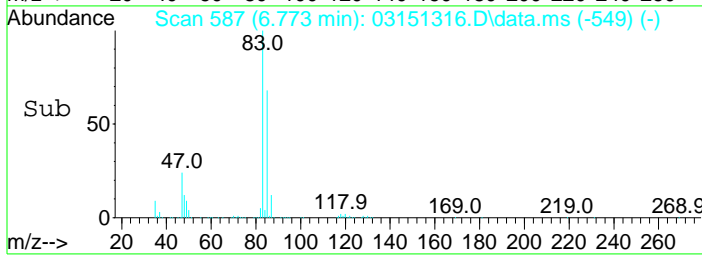
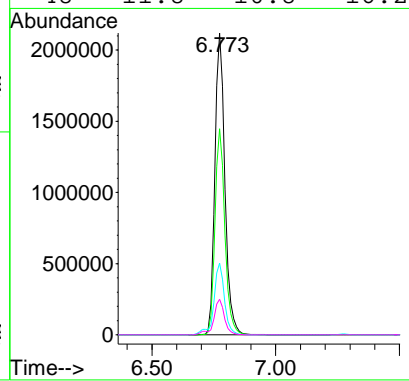
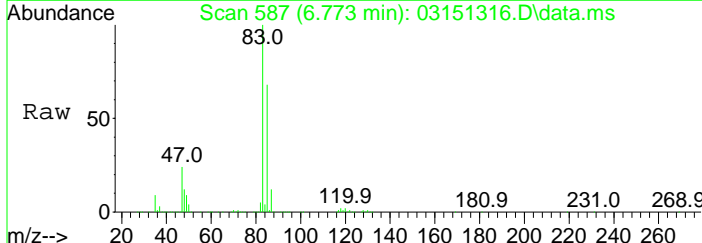
Tgt Ion	Resp	Lower	Upper
72	100		
73	4.6	14.3	23.8#
37	2.5	6.1	9.1#





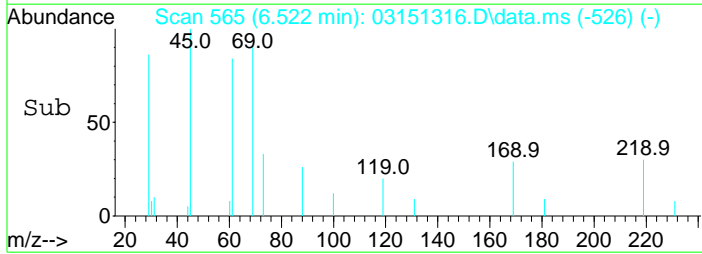
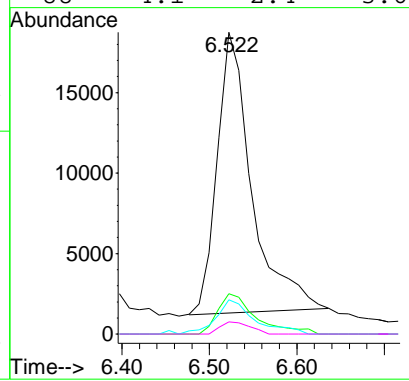
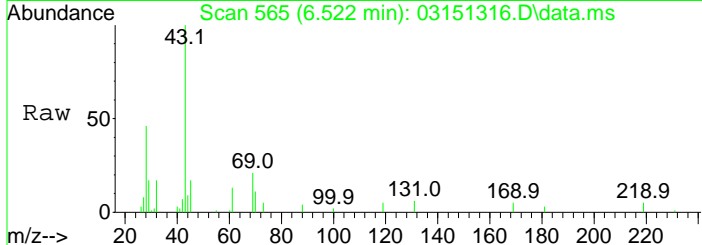
#29  
 Chloroform (HIAL= 0.045)  
 Concen: 14.36 nL  
 RT: 6.773 min Scan# 587  
 Delta R.T. -0.068 min  
 Lab File: 03151316.D  
 Acq: 15 Mar 2013 11:12 pm

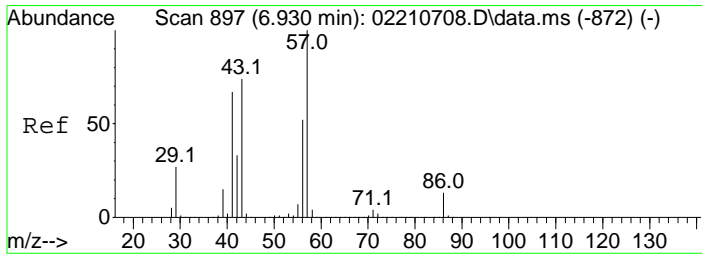
Tgt Ion	Resp	Lower	Upper
83	100		
85	68.3	51.5	77.3
47	23.8	22.5	33.7
48	11.8	10.8	16.2



#30  
 Ethyl Acetate  
 Concen: 0.10 nL m  
 RT: 6.522 min Scan# 565  
 Delta R.T. -0.057 min  
 Lab File: 03151316.D  
 Acq: 15 Mar 2013 11:12 pm

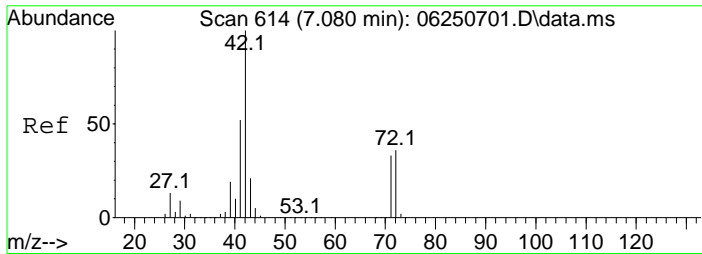
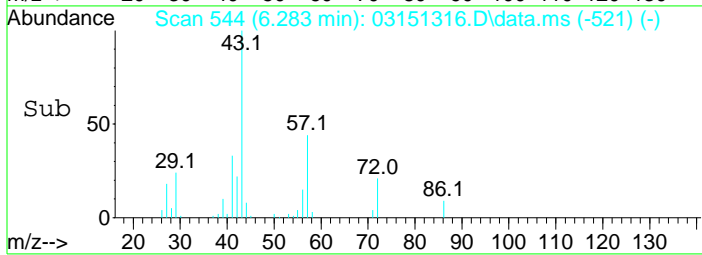
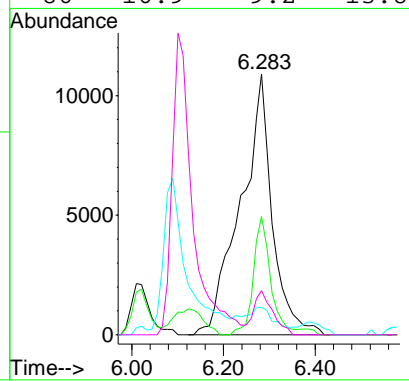
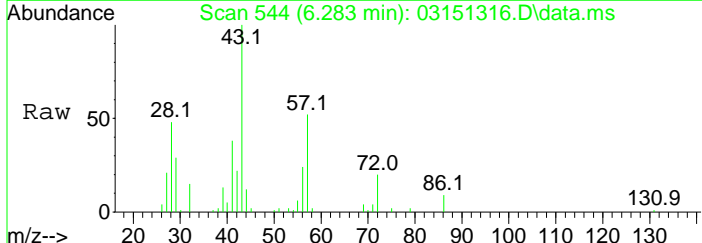
Tgt Ion	Resp	Lower	Upper
43	100		
61	13.4	9.8	16.3
70	11.3	6.5	10.9#
88	4.1	2.4	3.6#





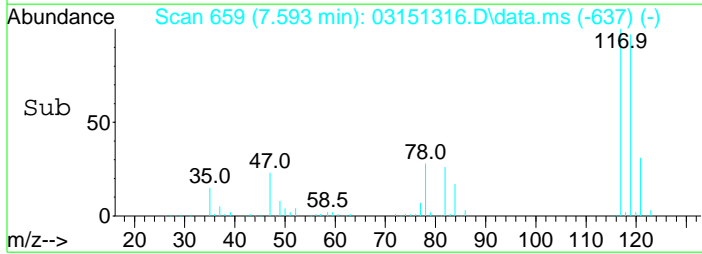
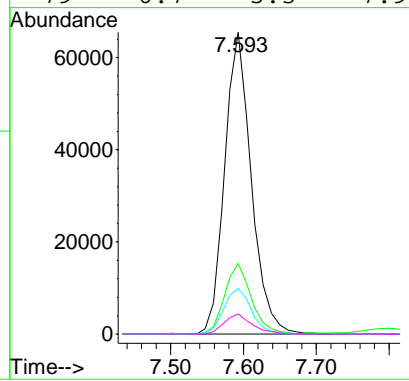
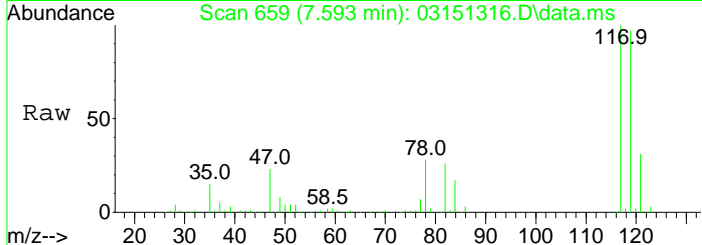
#34  
 Hexane  
 Concen: 0.13 nL  
 RT: 6.283 min Scan# 544  
 Delta R.T. -0.034 min  
 Lab File: 03151316.D  
 Acq: 15 Mar 2013 11:12 pm

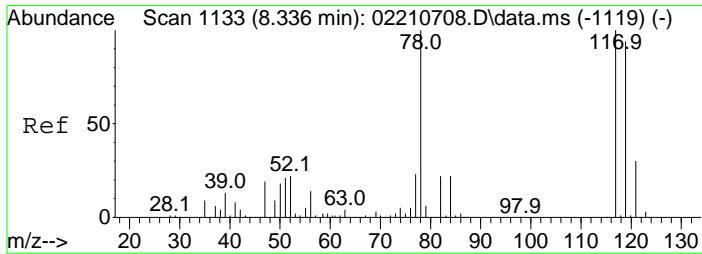
Tgt Ion	Resp	Lower	Upper
57	100		
56	45.4	41.6	62.4
55	10.6	6.2	9.4#
86	16.9	9.2	13.8#



#37  
 benzene (HIAL= 0.013)  
 Concen: 0.24 nL  
 RT: 7.593 min Scan# 659  
 Delta R.T. -0.045 min  
 Lab File: 03151316.D  
 Acq: 15 Mar 2013 11:12 pm

Tgt Ion	Resp	Lower	Upper
78	100		
77	23.4	11.6	34.8
52	15.1	19.1	28.7#
79	6.7	5.3	7.9

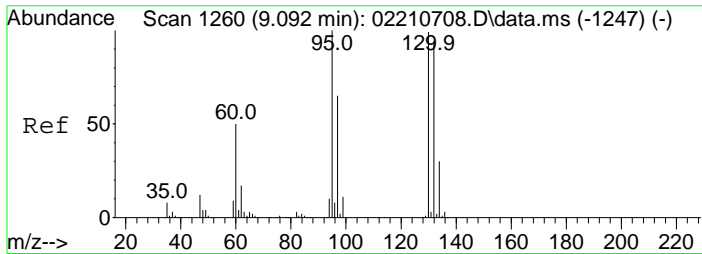
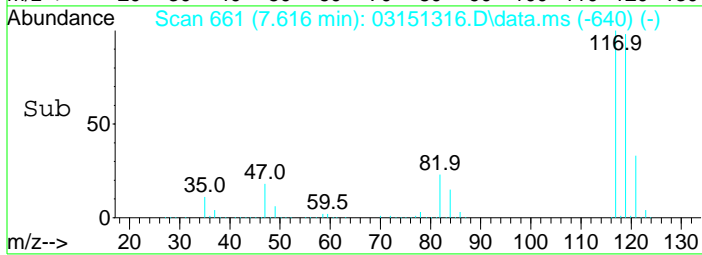
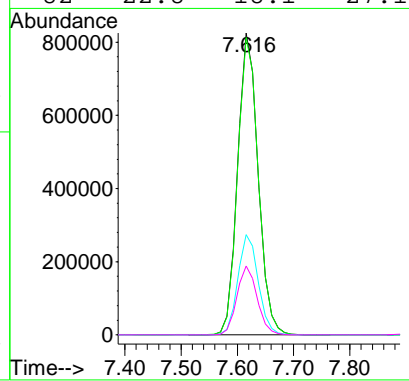
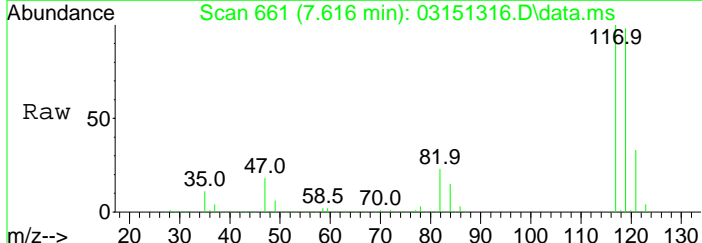




#38  
 carbon tetrachloride (HIAL= 0.0045)  
 Concen: 4.98 nL  
 RT: 7.616 min Scan# 661  
 Delta R.T. -0.056 min  
 Lab File: 03151316.D  
 Acq: 15 Mar 2013 11:12 pm

Tgt Ion:117 Resp: 2091200

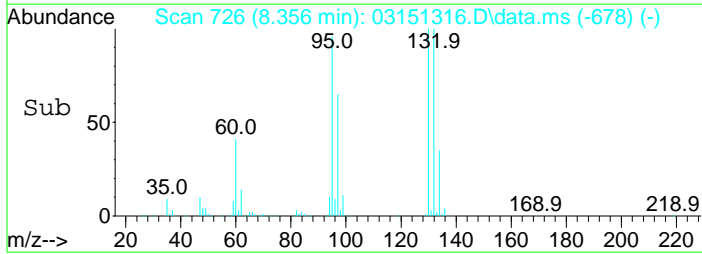
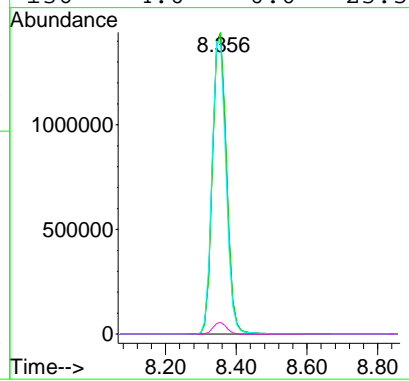
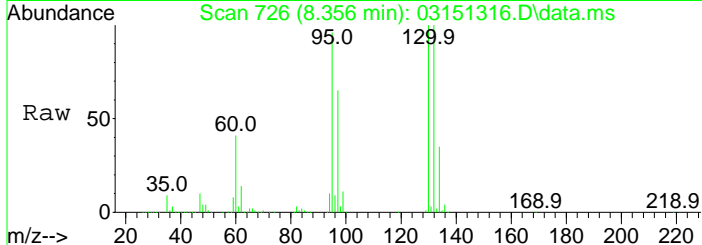
Ion	Ratio	Lower	Upper
117	100		
119	98.4	72.5	120.9
121	33.2	24.9	37.3
82	22.8	18.1	27.1

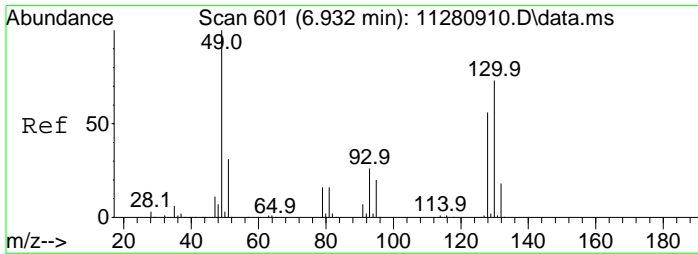


#42  
 trichloroethene  
 Concen: 11.76 nL  
 RT: 8.356 min Scan# 726  
 Delta R.T. -0.056 min  
 Lab File: 03151316.D  
 Acq: 15 Mar 2013 11:12 pm

Tgt Ion:130 Resp: 3982873

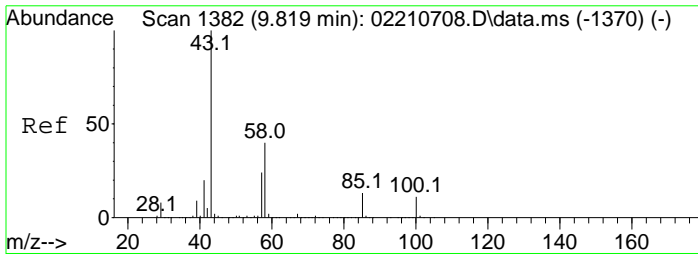
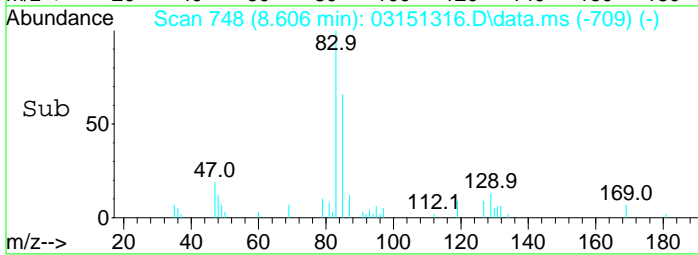
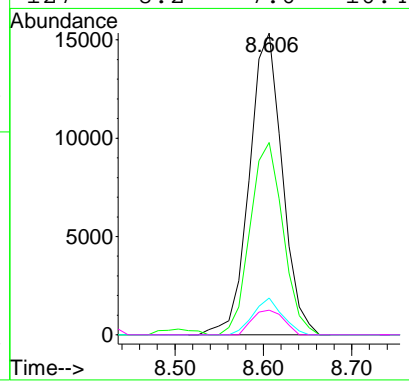
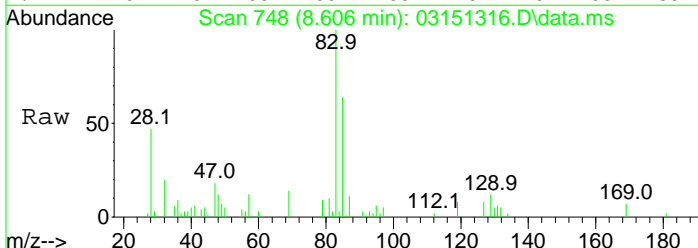
Ion	Ratio	Lower	Upper
130	100		
132	100.2	77.5	127.5
95	96.2	82.3	122.3
136	4.0	0.0	23.5





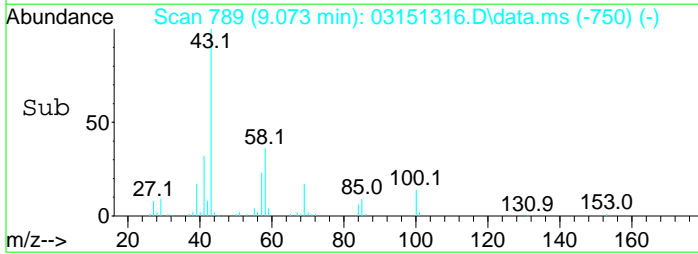
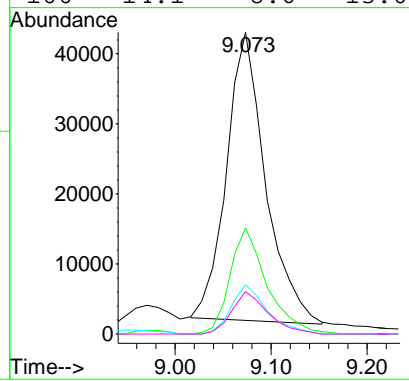
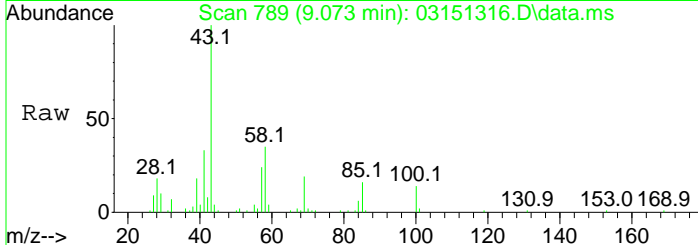
#44  
 bromdichmet (HSGL= 0.15 / HIAL= 0.0045)  
 Concen: 0.09 nL  
 RT: 8.606 min Scan# 748  
 Delta R.T. -0.057 min  
 Lab File: 03151316.D  
 Acq: 15 Mar 2013 11:12 pm

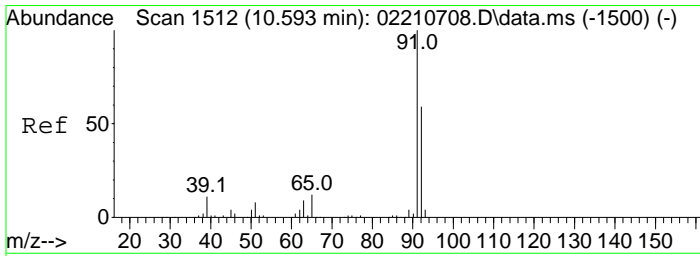
Tgt Ion	Resp	Lower	Upper
83	100		
85	63.7	48.2	80.4
129	12.2	8.9	13.3
127	8.2	7.0	10.4



#45  
 4-methyl-2-pentanone (MIBK)  
 Concen: 0.22 nL m  
 RT: 9.073 min Scan# 789  
 Delta R.T. -0.057 min  
 Lab File: 03151316.D  
 Acq: 15 Mar 2013 11:12 pm

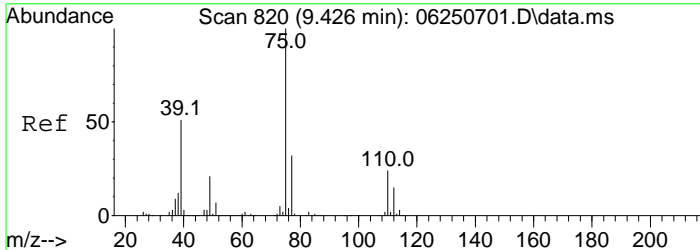
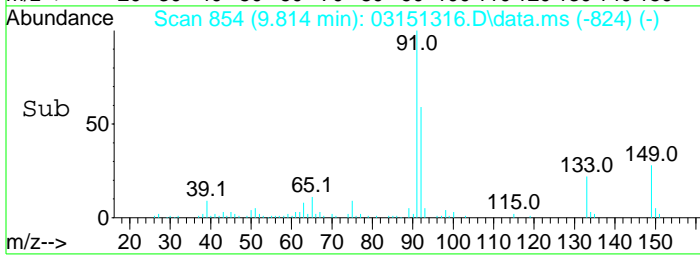
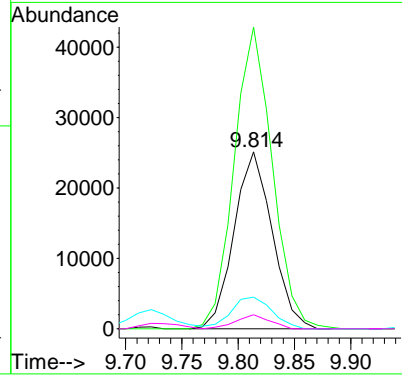
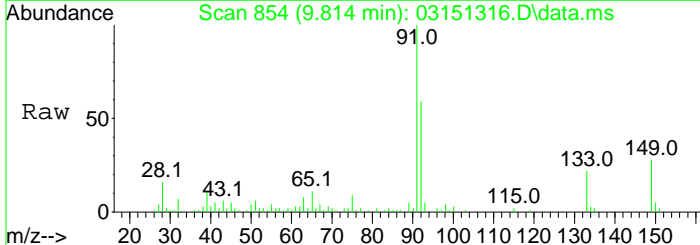
Tgt Ion	Resp	Lower	Upper
43	100		
58	35.2	29.4	49.0
85	16.4	9.8	16.3#
100	14.1	8.6	13.0#





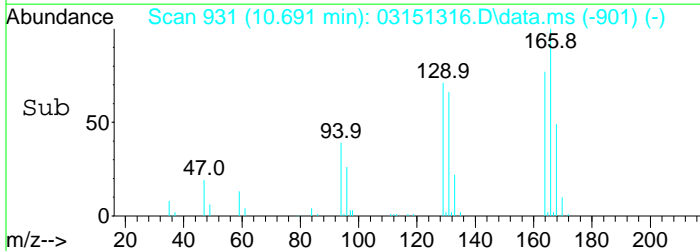
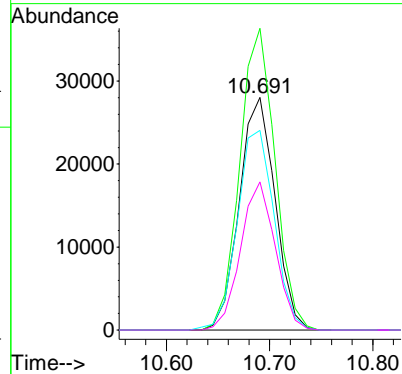
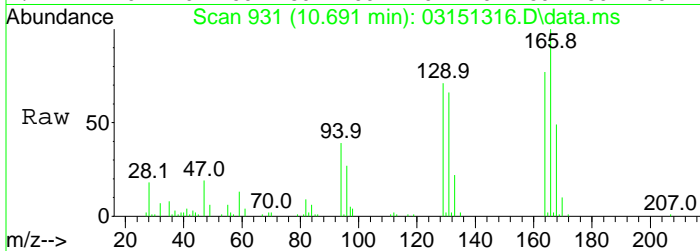
#48  
toluene  
Concen: 0.10 nL  
RT: 9.814 min Scan# 854  
Delta R.T. -0.056 min  
Lab File: 03151316.D  
Acq: 15 Mar 2013 11:12 pm

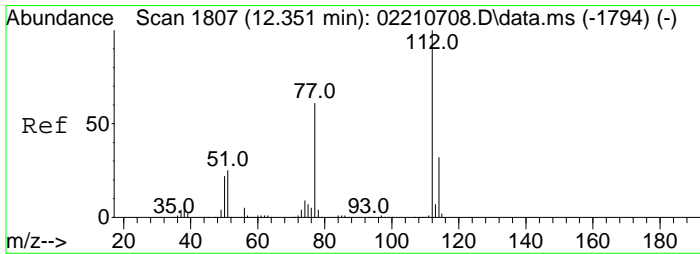
Tgt Ion	Resp	Lower	Upper
92	59388		
91	170.7	127.6	212.8
65	18.0	17.2	25.8
93	8.0	5.7	8.5



#53  
tetrachloroethene (HIAL= 0.029)  
Concen: 0.18 nL  
RT: 10.691 min Scan# 931  
Delta R.T. -0.056 min  
Lab File: 03151316.D  
Acq: 15 Mar 2013 11:12 pm

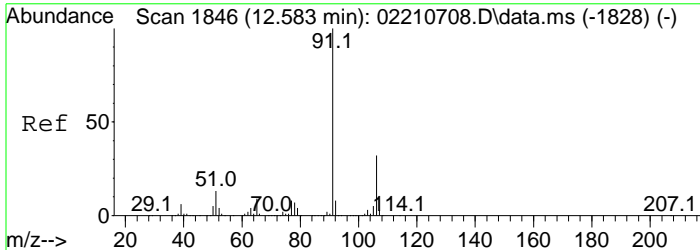
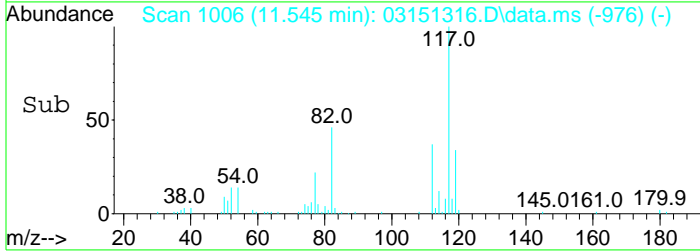
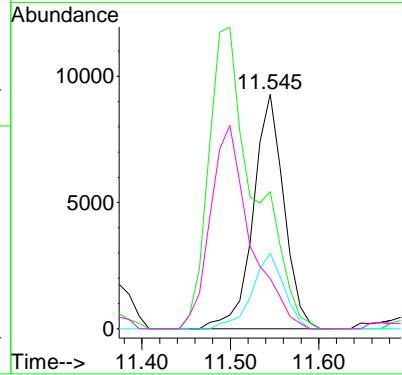
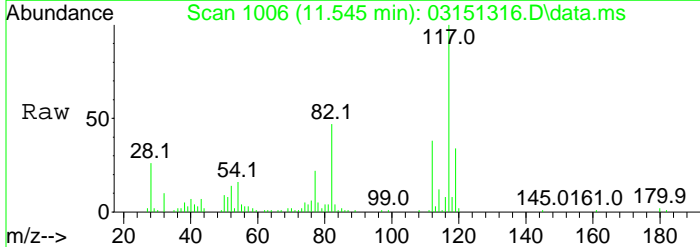
Tgt Ion	Resp	Lower	Upper
164	67455		
166	129.8	95.6	159.4
131	85.9	65.8	109.7
168	63.7	49.0	73.4





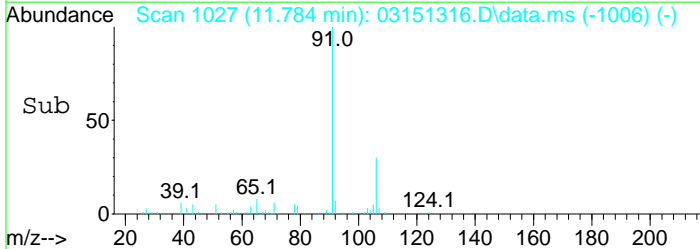
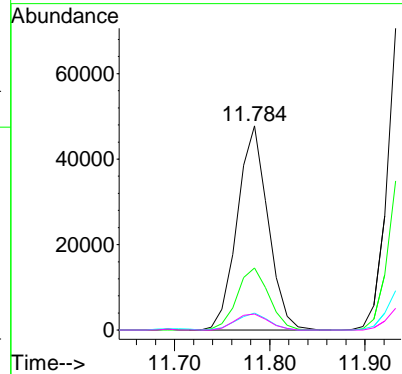
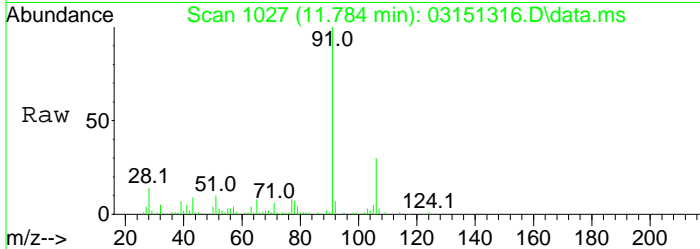
#55  
 chlorobenzene  
 Concen: 0.03 nL  
 RT: 11.545 min Scan# 1006  
 Delta R.T. -0.056 min  
 Lab File: 03151316.D  
 Acq: 15 Mar 2013 11:12 pm

Tgt Ion	Resp	Lower	Upper
112	100		
77	58.6	46.2	77.0
114	32.3	25.9	38.9
51	21.5	21.7	32.5#

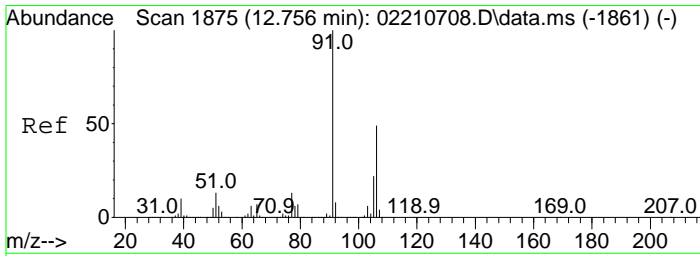


#57  
 ethylbenzene  
 Concen: 0.09 nL  
 RT: 11.784 min Scan# 1027  
 Delta R.T. -0.057 min  
 Lab File: 03151316.D  
 Acq: 15 Mar 2013 11:12 pm

Tgt Ion	Resp	Lower	Upper
91	100		
106	30.4	23.3	38.9
77	8.3	6.7	10.1
65	7.8	7.7	11.5

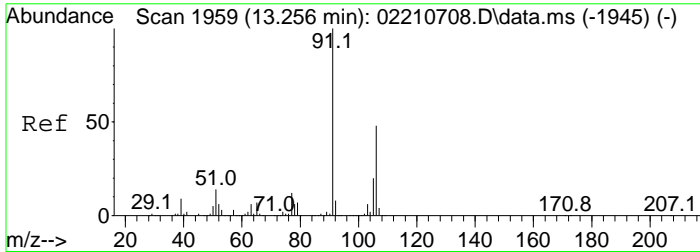
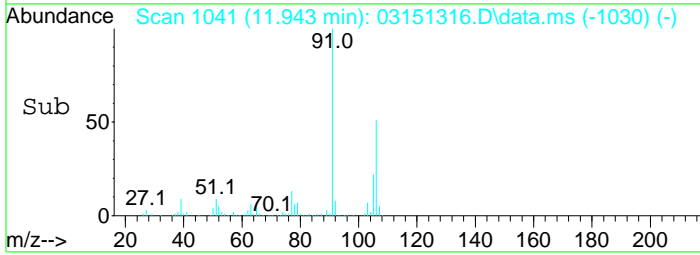
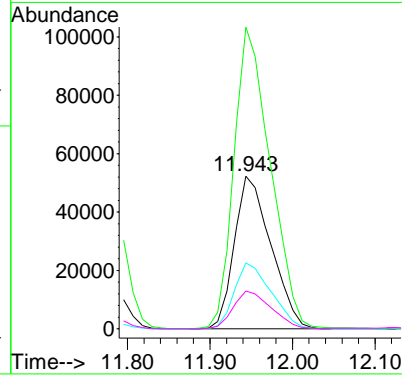
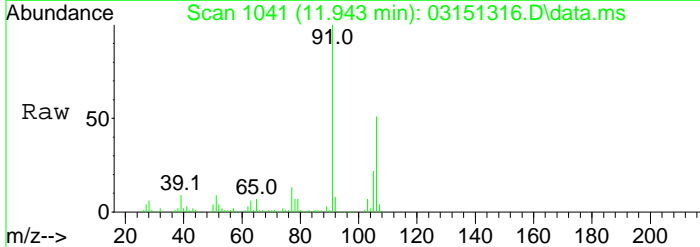






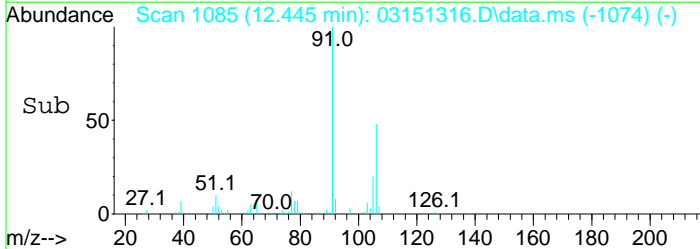
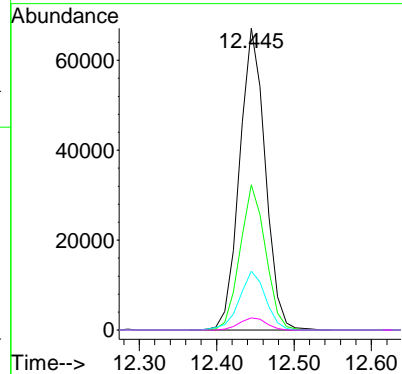
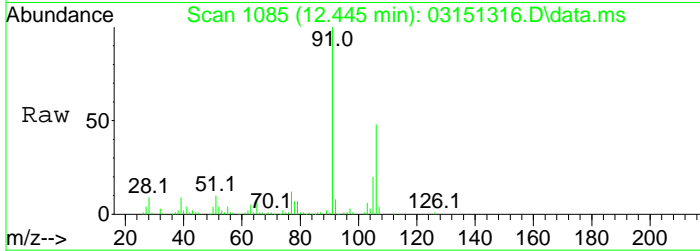
#58  
 p,m-xylene  
 Concen: 0.33 nL  
 RT: 11.943 min Scan# 1041  
 Delta R.T. -0.080 min  
 Lab File: 03151316.D  
 Acq: 15 Mar 2013 11:12 pm

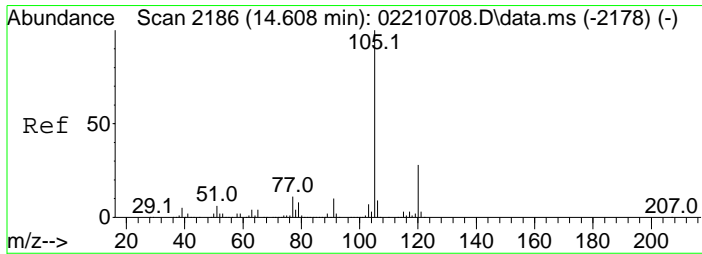
Tgt Ion	Resp	Lower	Upper
106	161261		
106	100		
91	197.8	155.1	258.5
105	43.3	36.6	54.8
77	24.9	21.6	32.4



#60  
 o-xylene  
 Concen: 0.16 nL  
 RT: 12.445 min Scan# 1085  
 Delta R.T. -0.079 min  
 Lab File: 03151316.D  
 Acq: 15 Mar 2013 11:12 pm

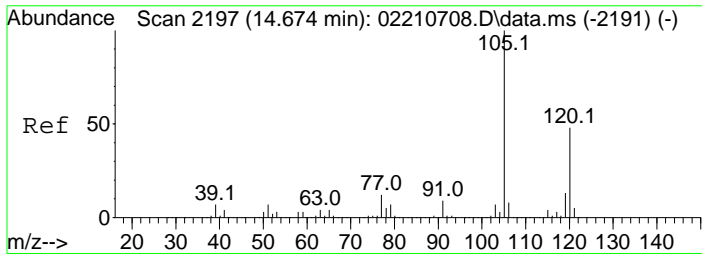
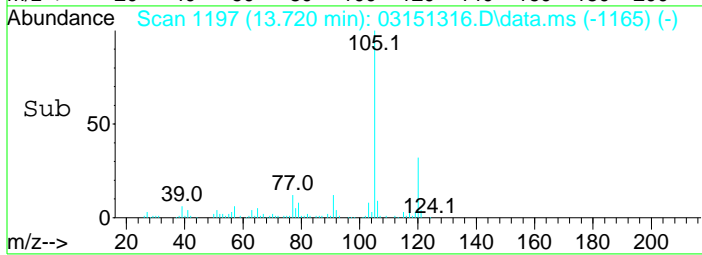
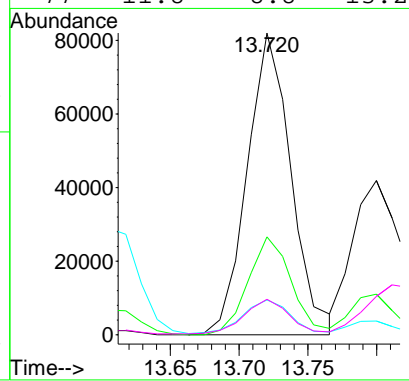
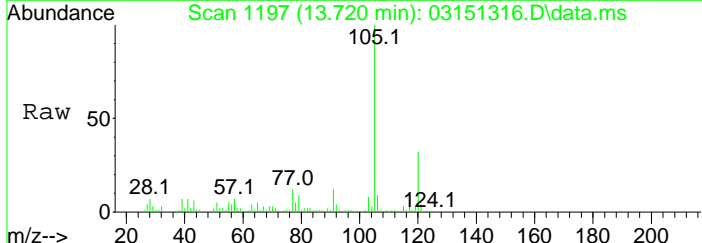
Tgt Ion	Resp	Lower	Upper
91	154362		
91	100		
106	48.1	34.2	57.0
105	19.5	14.7	22.1
107	4.0	3.1	4.7





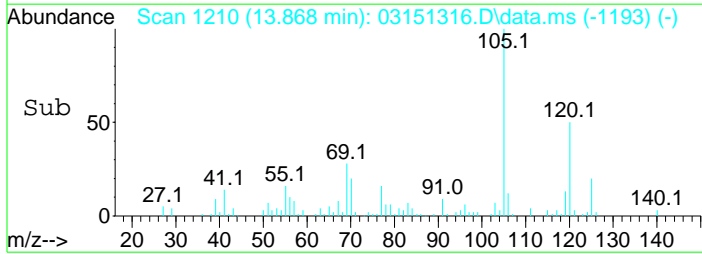
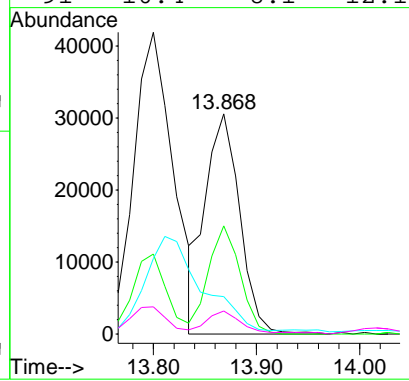
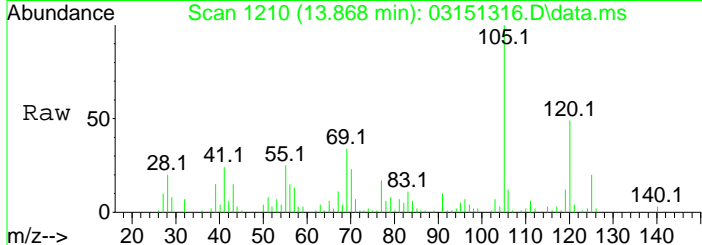
#62  
 4-Ethyltoluene  
 Concen: 0.12 nL  
 RT: 13.720 min Scan# 1197  
 Delta R.T. -0.136 min  
 Lab File: 03151316.D  
 Acq: 15 Mar 2013 11:12 pm

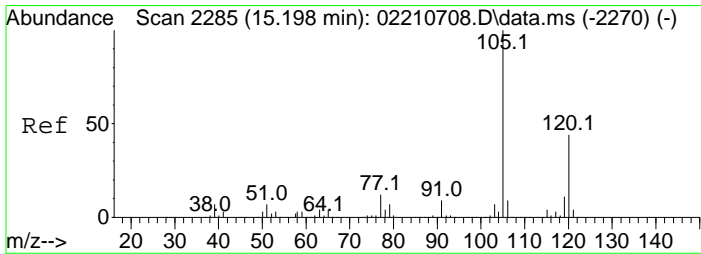
Tgt Ion	Resp	Lower	Upper
105	100		
120	32.4	23.6	35.4
91	11.6	8.4	12.6
77	11.8	8.8	13.2



#67  
 1,3,5 TrimethylBz  
 Concen: 0.07 nL  
 RT: 13.868 min Scan# 1210  
 Delta R.T. -0.057 min  
 Lab File: 03151316.D  
 Acq: 15 Mar 2013 11:12 pm

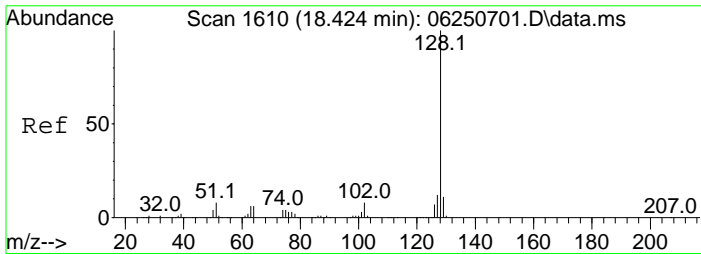
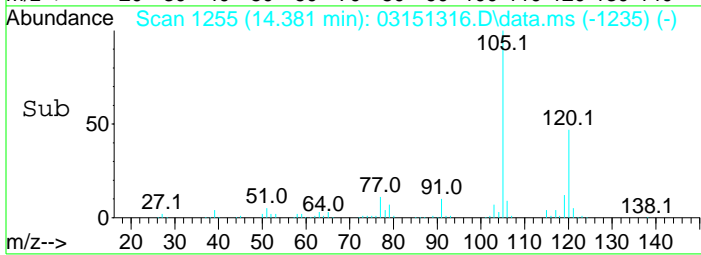
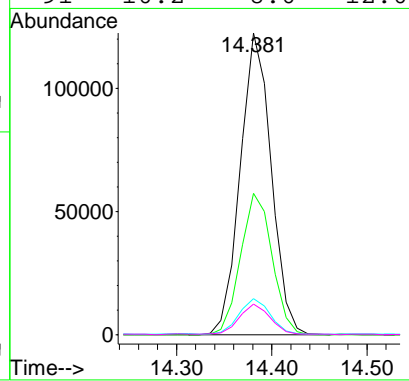
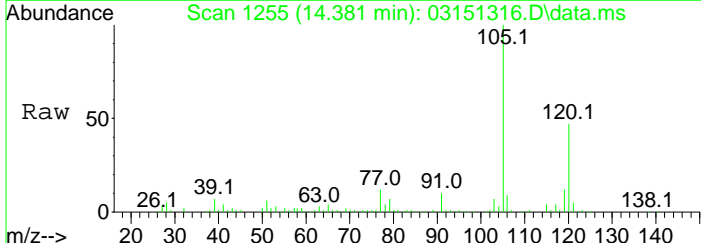
Tgt Ion	Resp	Lower	Upper
105	100		
120	49.1	35.6	59.4
77	17.1	9.9	14.9#
91	10.4	8.1	12.1





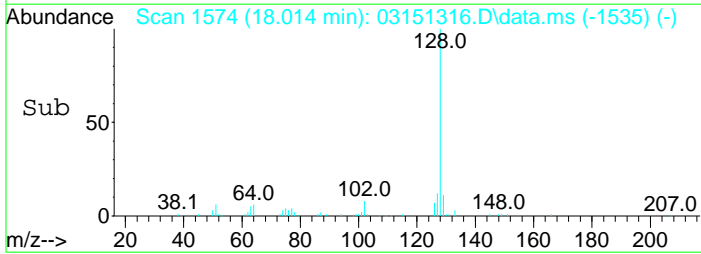
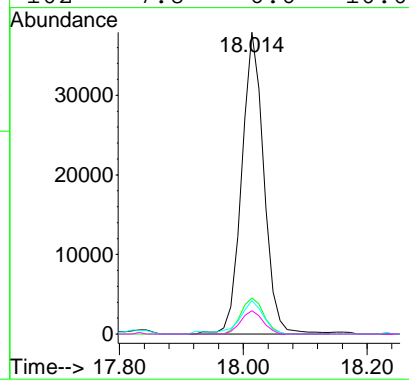
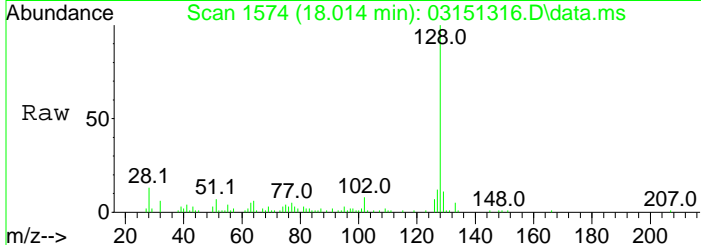
#68  
 1,2,4 TrimethylBz  
 Concen: 0.25 nL  
 RT: 14.381 min Scan# 1255  
 Delta R.T. -0.068 min  
 Lab File: 03151316.D  
 Acq: 15 Mar 2013 11:12 pm

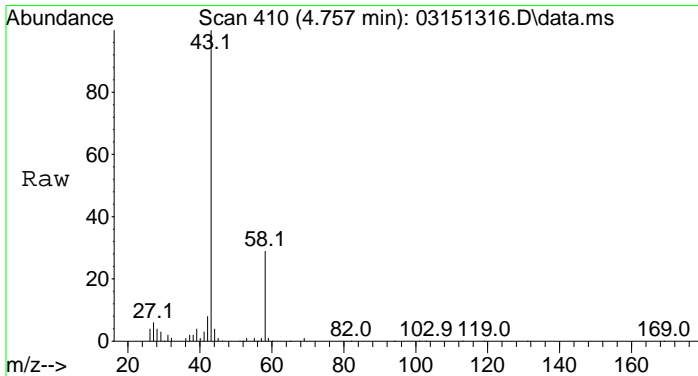
Tgt Ion	Resp	Lower	Upper
105	276372		
120	46.8	33.8	56.3
77	12.0	9.4	14.0
91	10.2	8.0	12.0



#74  
 Naphthalene (HIAL= 0.0065)  
 Concen: 0.08 nL  
 RT: 18.014 min Scan# 1574  
 Delta R.T. -0.056 min  
 Lab File: 03151316.D  
 Acq: 15 Mar 2013 11:12 pm

Tgt Ion	Resp	Lower	Upper
128	94384		
127	12.0	9.6	14.4
129	11.1	8.7	13.1
102	7.8	6.6	10.0

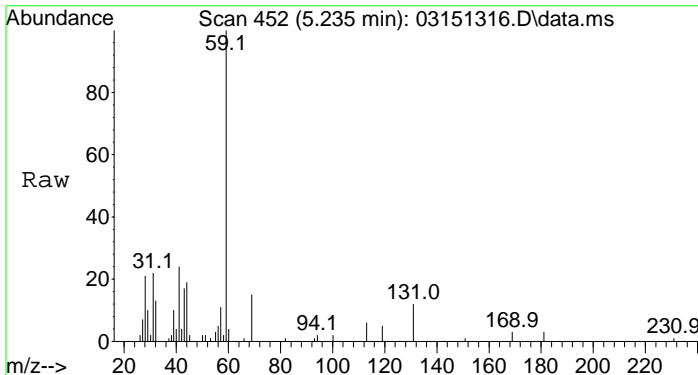
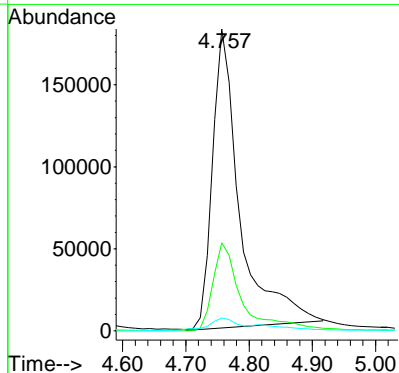
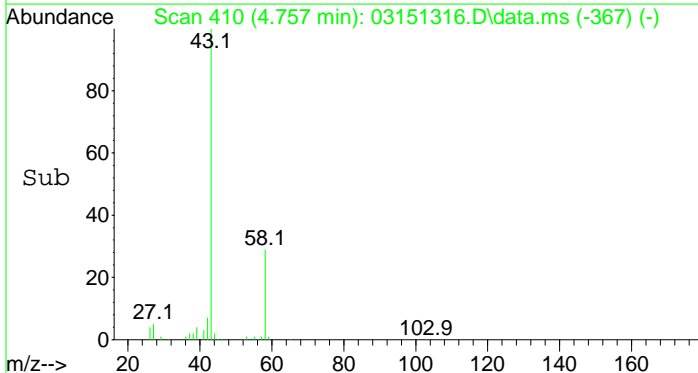




#77  
acetone  
Concen: 1.28 nL m  
RT: 4.757 min Scan# 410  
Delta R.T. -0.011 min  
Lab File: 03151316.D  
Acq: 15 Mar 2013 11:12 pm

Tgt Ion: 43 Resp: 550979

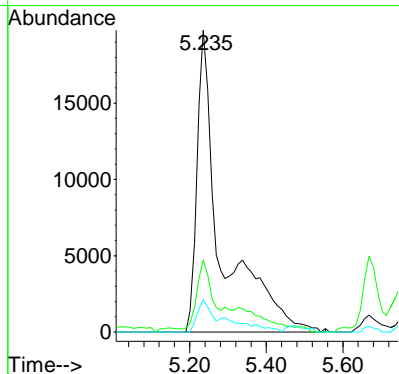
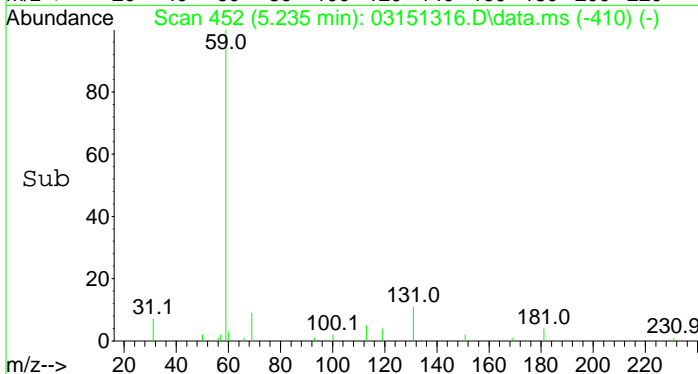
Ion	Ratio	Lower	Upper
43	100		
58	31.9	0.0	0.0#
39	4.4	0.0	0.0#



#78  
tert-Butyl alcohol  
Concen: 0.27 nL m  
RT: 5.235 min Scan# 452  
Delta R.T. -0.023 min  
Lab File: 03151316.D  
Acq: 15 Mar 2013 11:12 pm

Tgt Ion: 59 Resp: 86919

Ion	Ratio	Lower	Upper
59	100		
41	0.0	0.0	0.0
57	0.0	0.0	0.0



Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 03151317.D  
 Acq On : 16 Mar 2013 12:10 am  
 Operator :  
 Sample : 1303408-003A ppmv  
 Misc : TO15\_SOILGAS  
 ALS Vial : 6 Sample Multiplier: 1

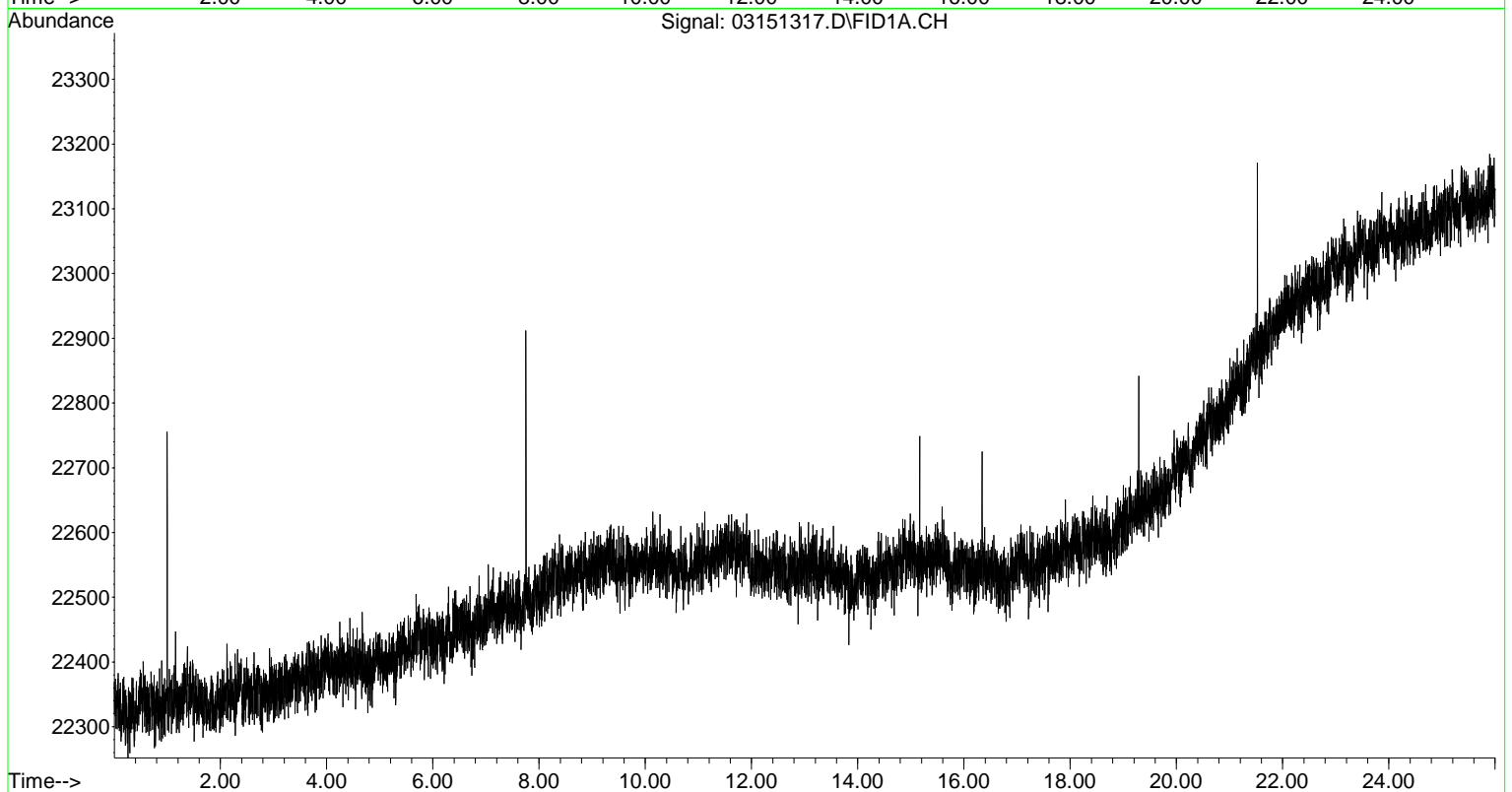
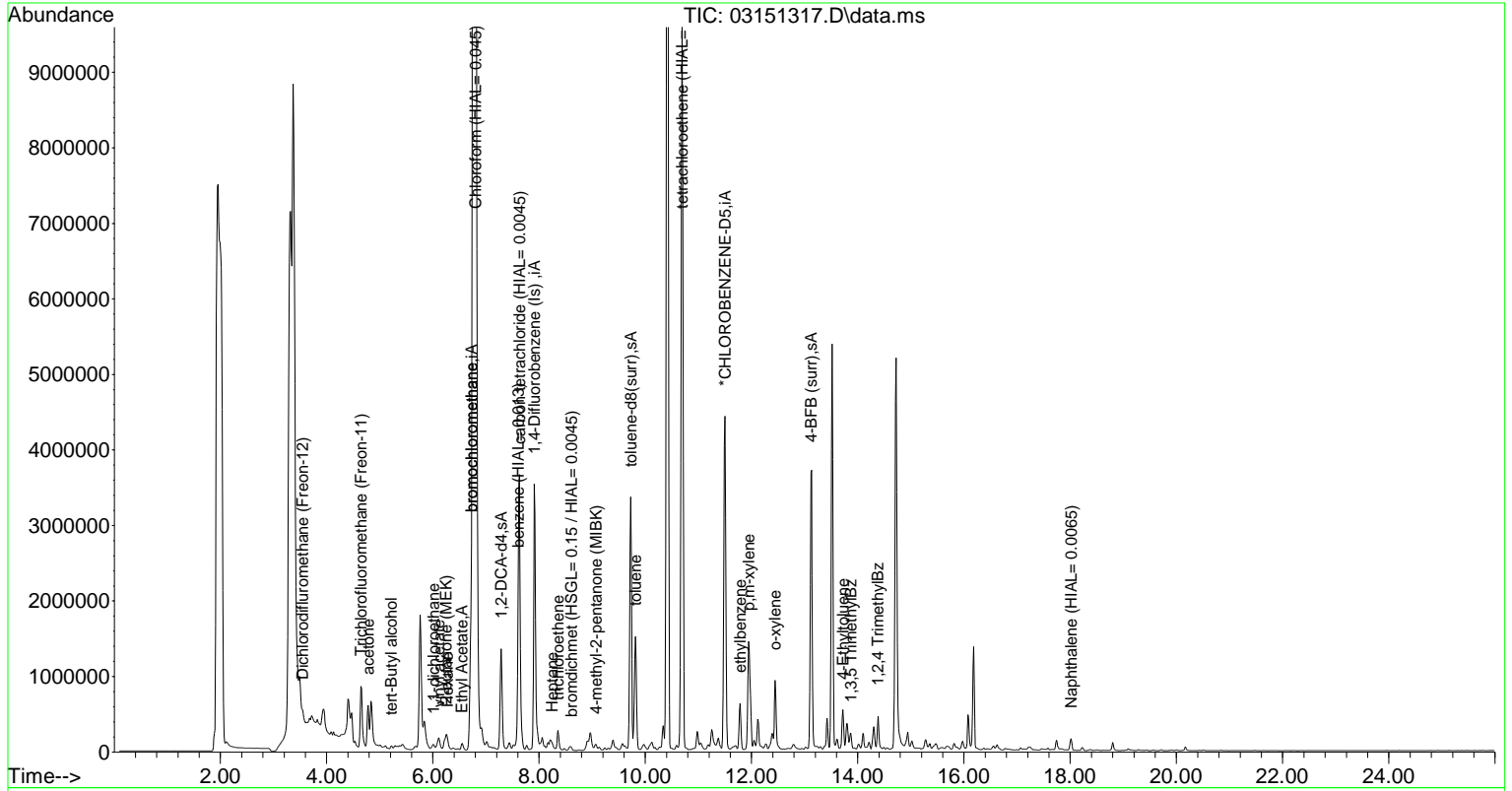
Quant Time: Apr 16 13:28:51 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Mon Apr 15 14:29:45 2013  
 Response via : Initial Calibration

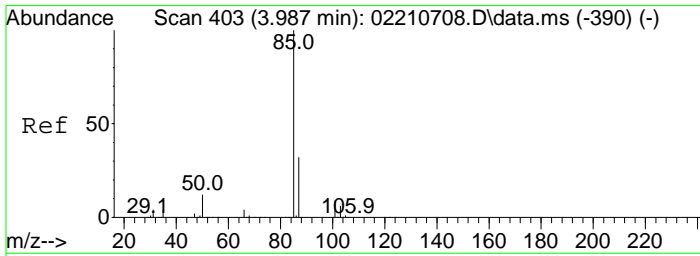
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) bromochloromethane	6.727	130	800392	50.00	nL	-0.05	
39) 1,4-Difluorobenzene (Is)	7.912	114	3769934	50.00	nL	-0.06	
56) *CHLOROBENZENE-D5	11.499	117	3646953	50.00	nL	-0.06	
76) bromochloromethane	6.727	130	800392	50.00	nL	0.06	
System Monitoring Compounds							
22) 1,2-DCA-d4	7.285	65	895249	112.13	nL	-0.06	
47) toluene-d8(surr)	9.723	98	2916347	95.65	nL	-0.06	
65) 4-BFB (surr)	13.117	95	2017492	87.83	nL	-0.06	
Target Compounds							
							Qvalue
5) Dichlorodifluoromethane...	3.550	85	86991	0.22	nL		# 93
13) Trichlorofluoromethane...	4.643	101	1082773	4.22	nL		99
20) vinyl acetate	6.112	43	203616m	0.48	nL		
24) 1,1-dichloroethane	6.010	63	39704m	0.12	nL		
25) 2-butanone (MEK)	6.249	72	102689m	0.82	nL		
29) Chloroform (HIAL= 0.045)	6.807	83	27264320m	77.28	nL		
30) Ethyl Acetate	6.545	43	120175m	0.30	nL		
34) Hexane	6.272	57	79585	0.24	nL	#	87
37) benzene (HIAL= 0.013)	7.604	78	225374	0.38	nL	#	92
38) carbon tetrachloride (...)	7.627	117	3021557	8.43	nL		97
41) Heptane	8.242	43	57222	0.15	nL	#	87
42) trichloroethene	8.356	130	115488	0.35	nL		95
44) bromdichmet (HSGI= 0.1...	8.606	83	38848	0.09	nL		98
45) 4-methyl-2-pentanone (...)	9.073	43	72795m	0.14	nL		
48) toluene	9.814	92	813625	1.43	nL		95
53) tetrachloroethene (HIA...	10.691	164	3280370	9.03	nL		98
57) ethylbenzene	11.784	91	593830	0.51	nL		98
58) p,m-xylene	11.943	106	796164	1.66	nL		93
60) o-xylene	12.445	91	750806	0.79	nL		96
62) 4-Ethyltoluene	13.720	105	438520	0.31	nL		95
67) 1,3,5 TrimethylBz	13.868	105	119432	0.11	nL	#	96
68) 1,2,4 TrimethylBz	14.381	105	353466	0.32	nL		98
74) Naphthalene (HIAL= 0.0...	18.014	128	190549	0.17	nL		99
77) acetone	4.780	43	1182435m	5.19	nL		
78) tert-Butyl alcohol	5.212	59	123361m	0.45	nL		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 03151317.D  
 Acq On : 16 Mar 2013 12:10 am  
 Operator :  
 Sample : 1303408-003A ppmv  
 Misc : TO15\_SOILGAS  
 ALS Vial : 6 Sample Multiplier: 1

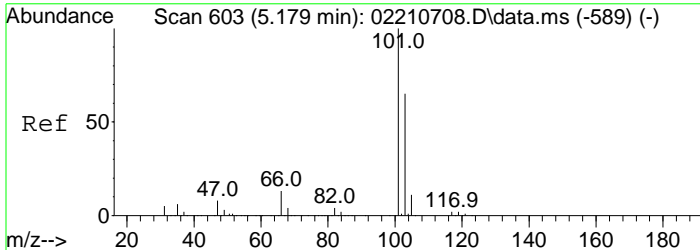
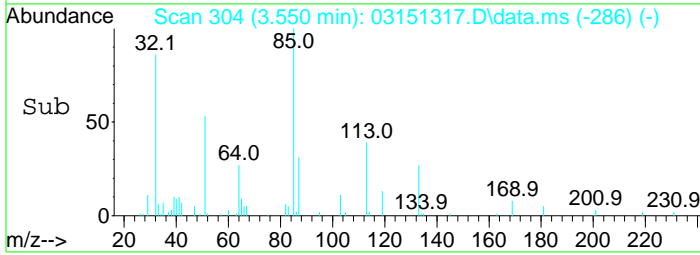
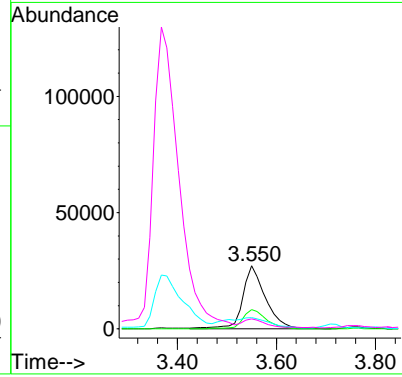
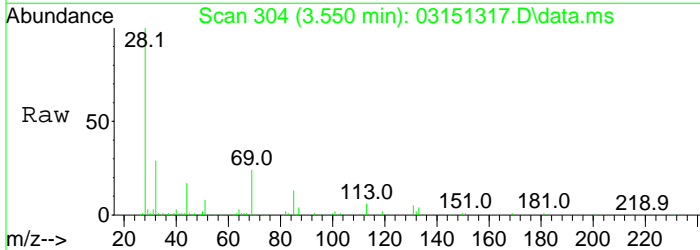
Quant Time: Apr 16 13:28:51 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Mon Apr 15 14:29:45 2013  
 Response via : Initial Calibration





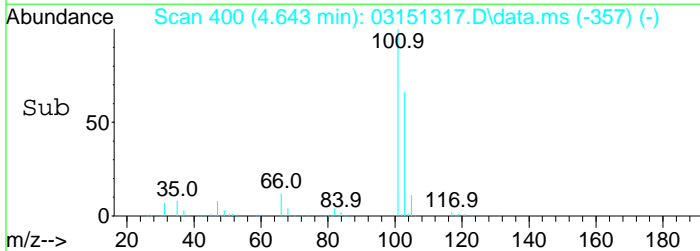
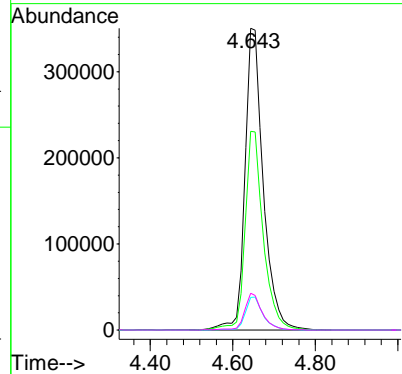
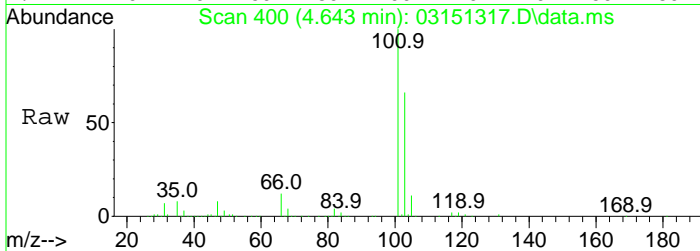
#5  
 Dichlorodifluoromethane (Freon-12)  
 Concen: 0.22 nL  
 RT: 3.550 min Scan# 304  
 Delta R.T. 0.001 min  
 Lab File: 03151317.D  
 Acq: 16 Mar 2013 12:10 am

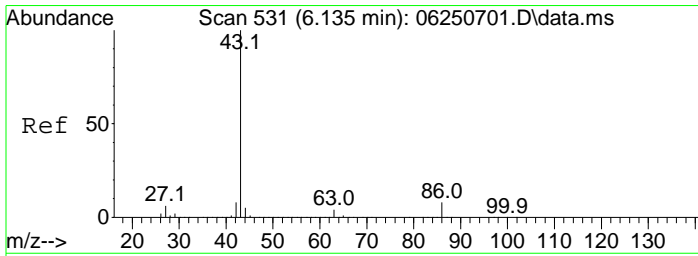
Tgt Ion	Resp	Lower	Upper
85	100		
87	30.8	24.4	40.8
101	18.0	7.3	10.9#
50	15.7	10.6	15.8



#13  
 Trichlorofluoromethane (Freon-11)  
 Concen: 4.22 nL  
 RT: 4.643 min Scan# 400  
 Delta R.T. -0.011 min  
 Lab File: 03151317.D  
 Acq: 16 Mar 2013 12:10 am

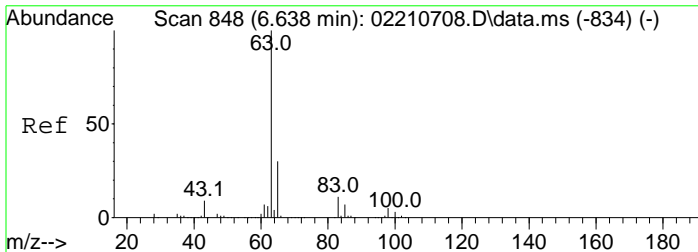
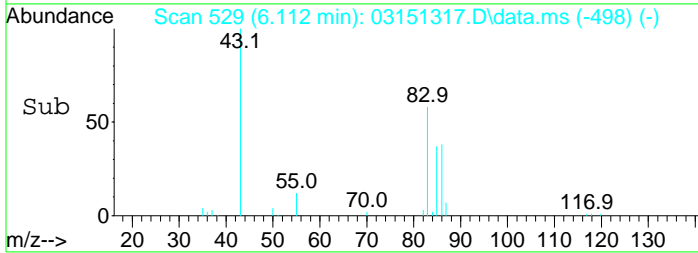
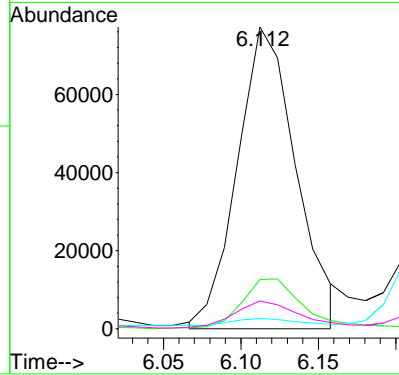
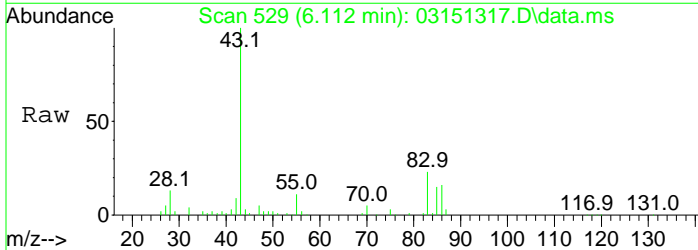
Tgt Ion	Resp	Lower	Upper
101	100		
103	65.8	51.6	77.4
105	10.8	8.6	12.8
66	12.2	10.0	15.0





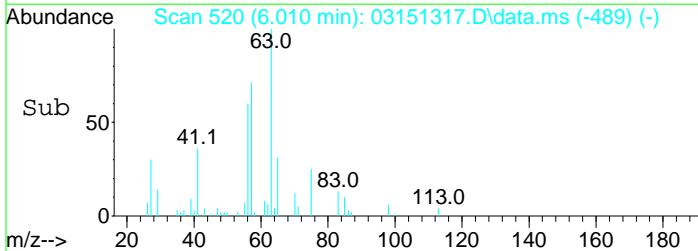
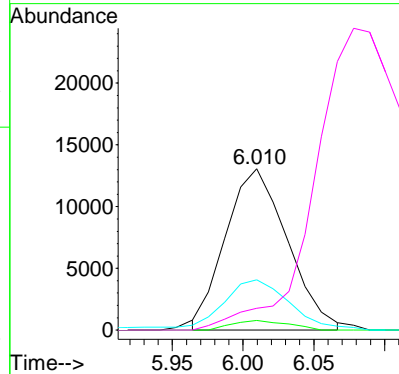
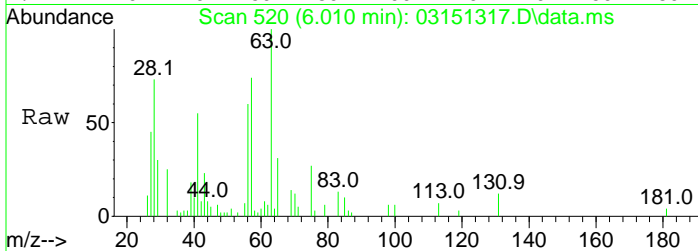
#20  
 vinyl acetate  
 Concen: 0.48 nL m  
 RT: 6.112 min Scan# 529  
 Delta R.T. 0.103 min  
 Lab File: 03151317.D  
 Acq: 16 Mar 2013 12:10 am

Tgt Ion	Resp	Lower	Upper
43	100		
86	16.3	5.6	8.4#
44	3.4	4.1	6.1#
42	9.2	5.8	8.6#

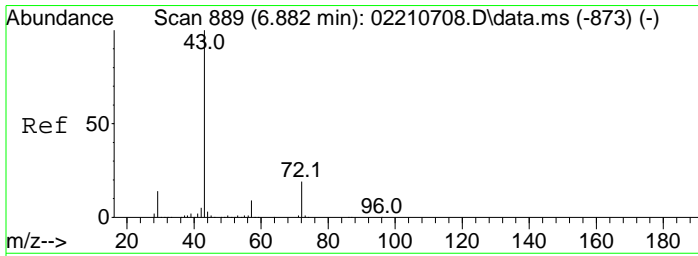


#24  
 1,1-dichloroethane  
 Concen: 0.12 nL m  
 RT: 6.010 min Scan# 520  
 Delta R.T. -0.045 min  
 Lab File: 03151317.D  
 Acq: 16 Mar 2013 12:10 am

Tgt Ion	Resp	Lower	Upper
63	100		
98	5.9	4.0	6.0
65	31.2	24.8	37.2
83	13.4	8.7	13.1#

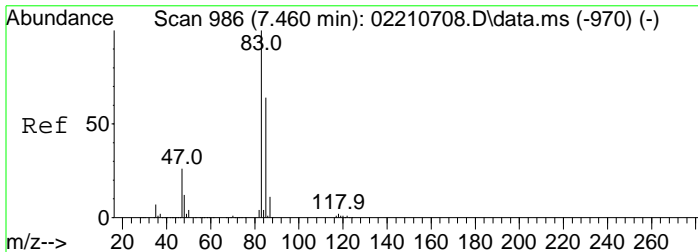
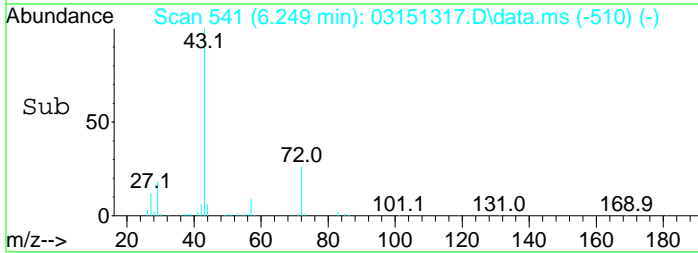
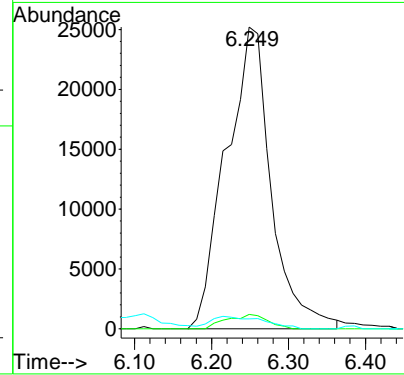
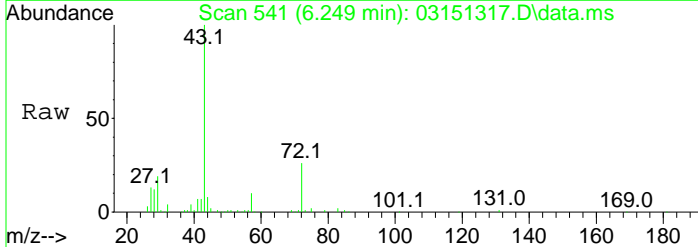






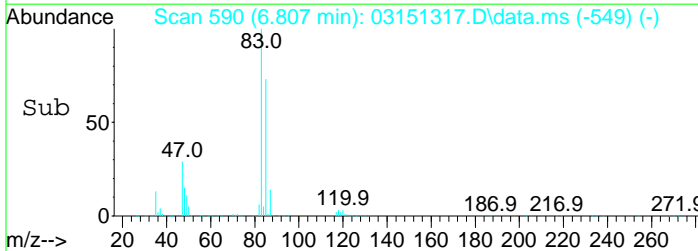
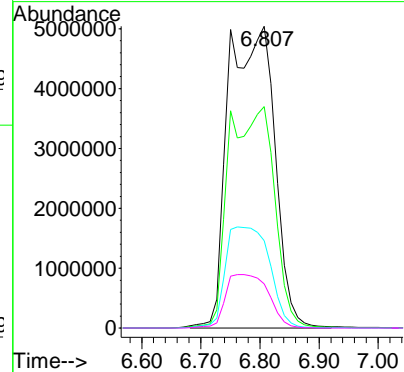
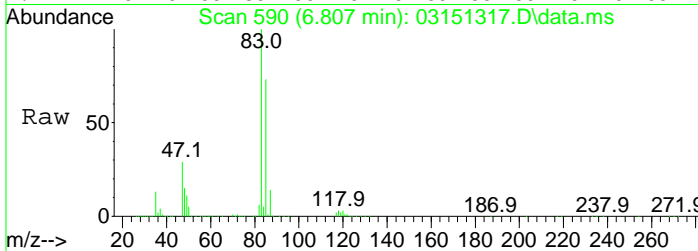
#25  
 2-butanone (MEK)  
 Concen: 0.82 nL m  
 RT: 6.249 min Scan# 541  
 Delta R.T. -0.045 min  
 Lab File: 03151317.D  
 Acq: 16 Mar 2013 12:10 am

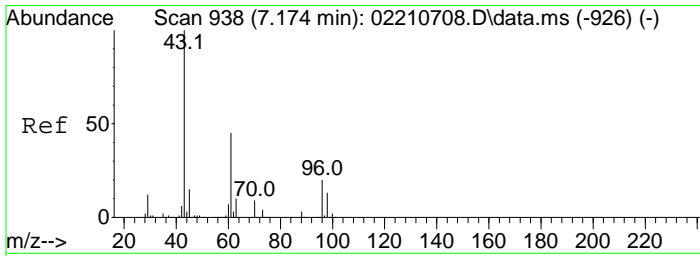
Tgt Ion	Resp	Lower	Upper
72	100		
73	4.8	14.3	23.8#
37	3.3	6.1	9.1#



#29  
 Chloroform (HIAL= 0.045)  
 Concen: 77.28 nL m  
 RT: 6.807 min Scan# 590  
 Delta R.T. -0.034 min  
 Lab File: 03151317.D  
 Acq: 16 Mar 2013 12:10 am

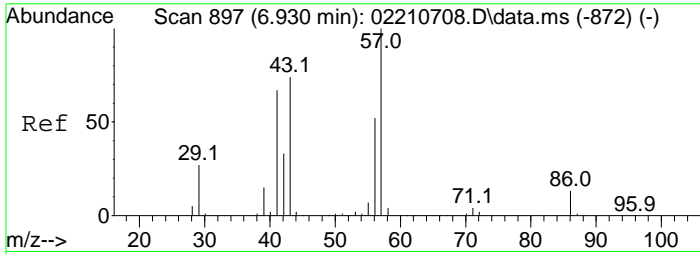
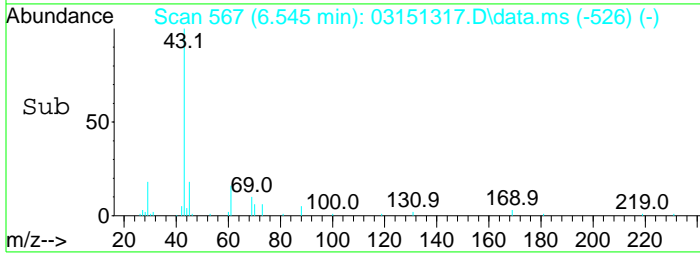
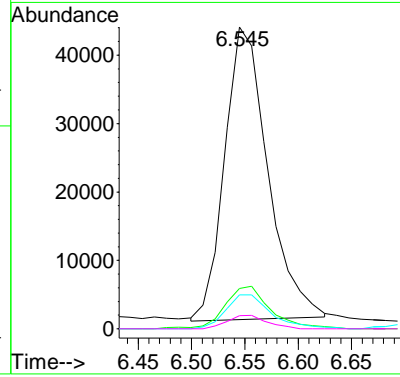
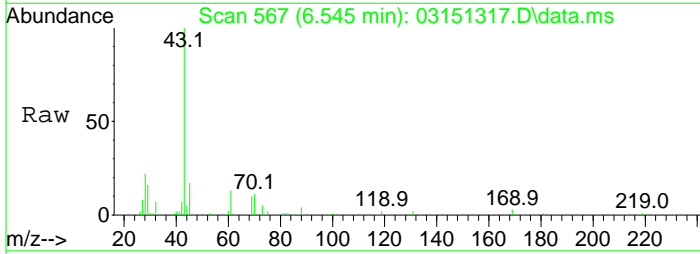
Tgt Ion	Resp	Lower	Upper
83	100		
85	73.4	51.5	77.3
47	29.0	22.5	33.7
48	14.6	10.8	16.2





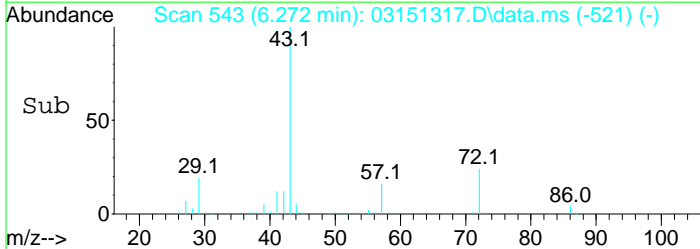
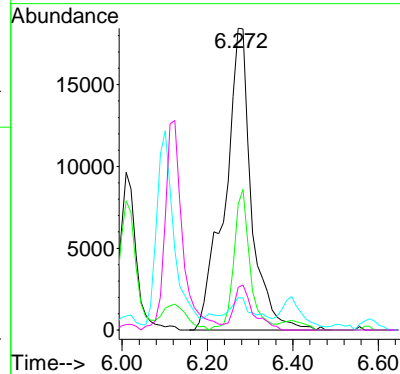
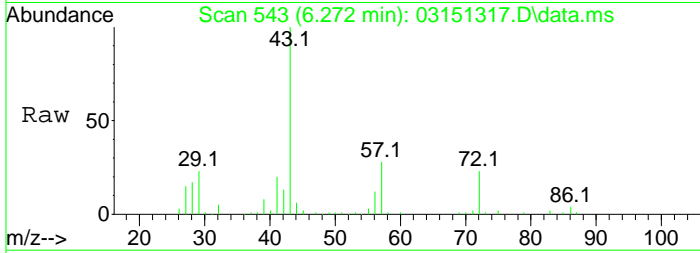
#30  
Ethyl Acetate  
Concen: 0.30 nL m  
RT: 6.545 min Scan# 567  
Delta R.T. -0.034 min  
Lab File: 03151317.D  
Acq: 16 Mar 2013 12:10 am

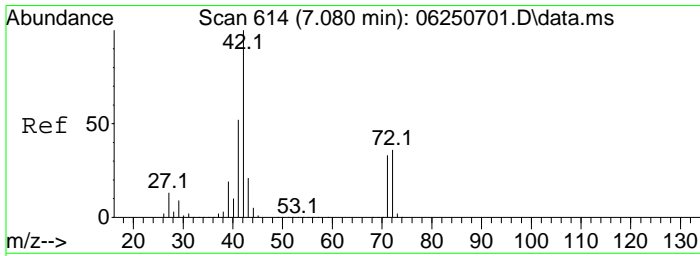
Tgt Ion	Resp	Lower	Upper
43	100		
61	13.4	9.8	16.3
70	11.3	6.5	10.9#
88	4.3	2.4	3.6#



#34  
Hexane  
Concen: 0.24 nL  
RT: 6.272 min Scan# 543  
Delta R.T. -0.045 min  
Lab File: 03151317.D  
Acq: 16 Mar 2013 12:10 am

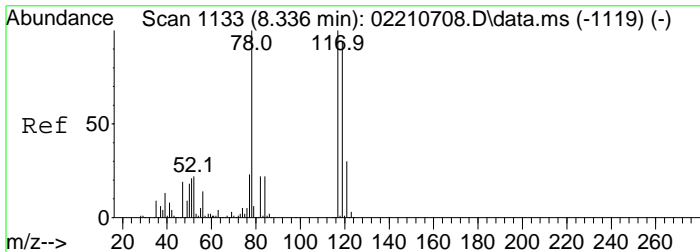
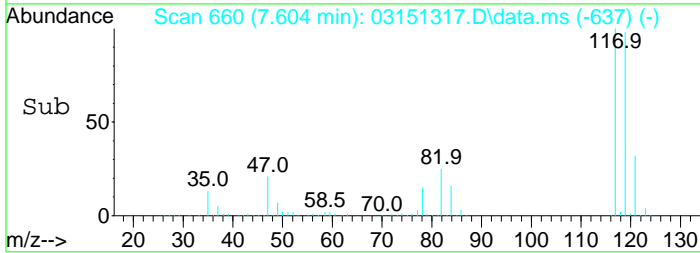
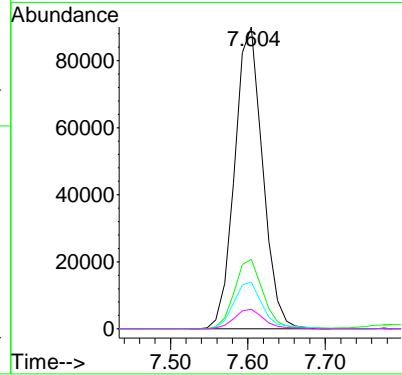
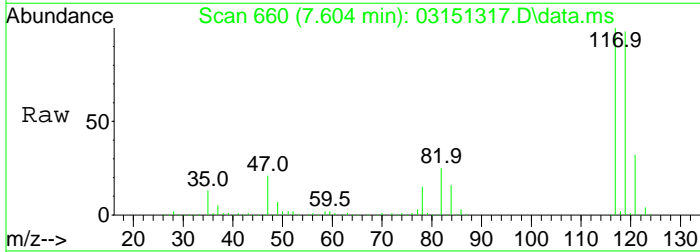
Tgt Ion	Resp	Lower	Upper
57	100		
56	41.7	41.6	62.4
55	10.8	6.2	9.4#
86	14.1	9.2	13.8#





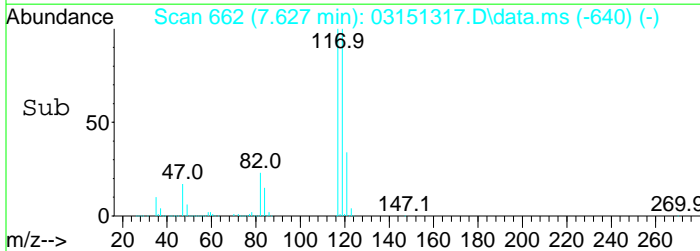
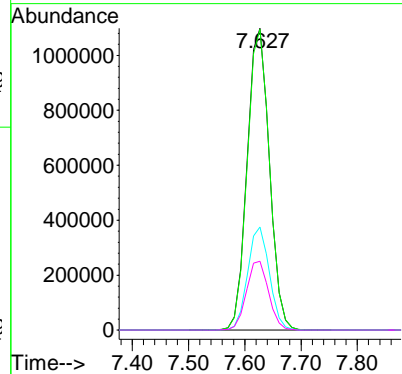
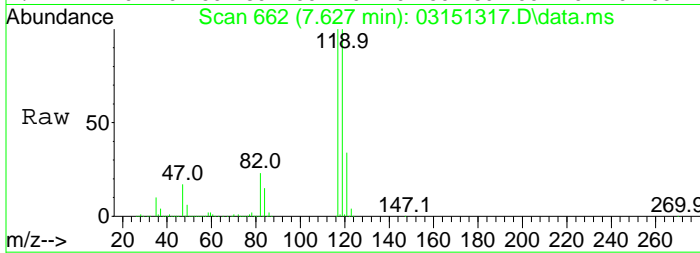
#37  
benzene (HIAL= 0.013)  
Concen: 0.38 nL  
RT: 7.604 min Scan# 660  
Delta R.T. -0.034 min  
Lab File: 03151317.D  
Acq: 16 Mar 2013 12:10 am

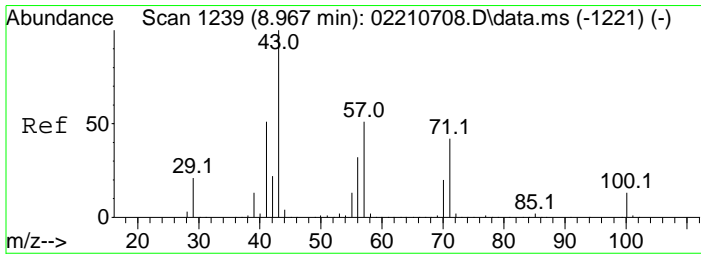
Tgt Ion	Resp	Lower	Upper
78	100		
77	23.0	11.6	34.8
52	15.5	19.1	28.7#
79	6.5	5.3	7.9



#38  
carbon tetrachloride (HIAL= 0.0045)  
Concen: 8.43 nL  
RT: 7.627 min Scan# 662  
Delta R.T. -0.045 min  
Lab File: 03151317.D  
Acq: 16 Mar 2013 12:10 am

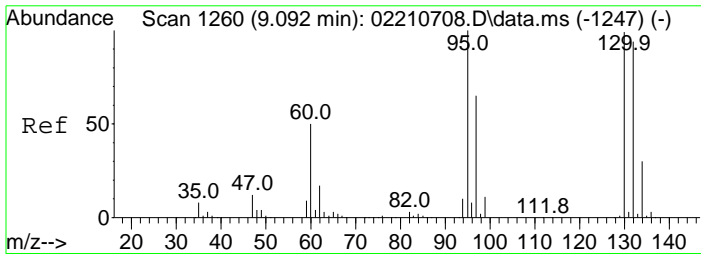
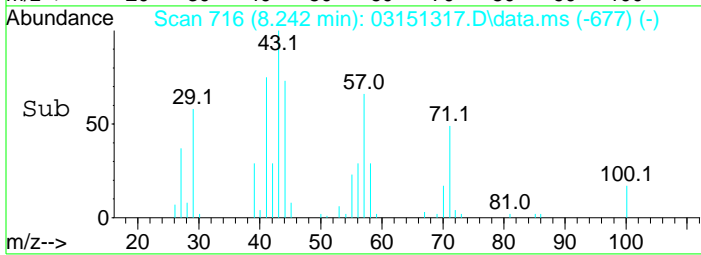
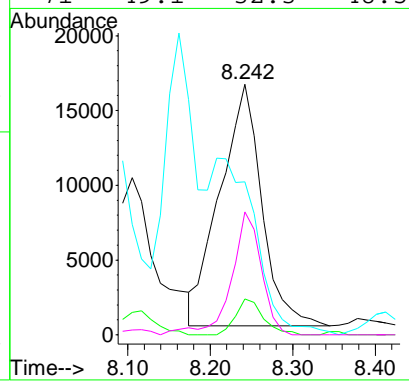
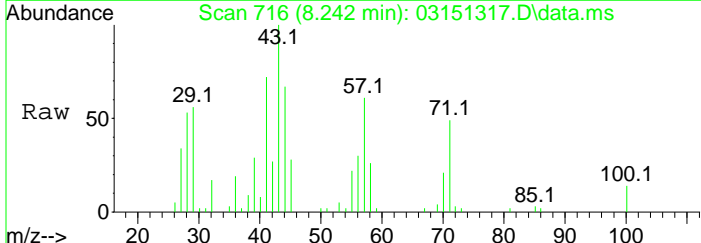
Tgt Ion	Resp	Lower	Upper
117	100		
119	99.6	72.5	120.9
121	34.1	24.9	37.3
82	22.9	18.1	27.1





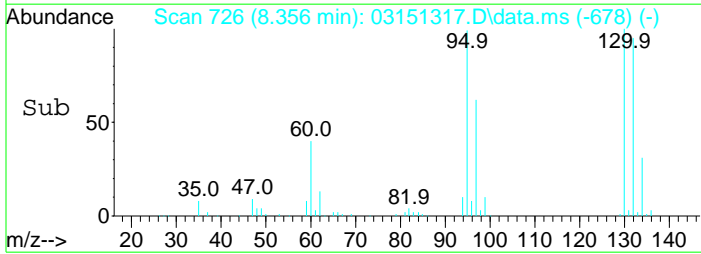
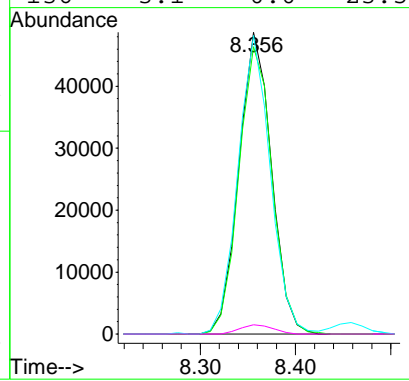
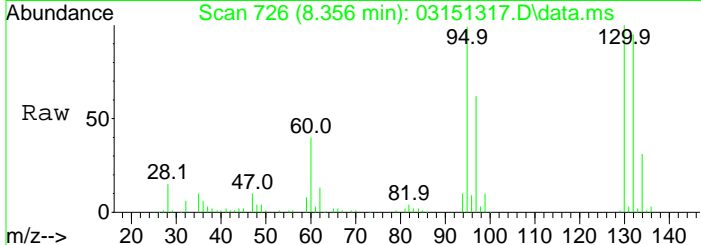
#41  
 Heptane  
 Concen: 0.15 nL  
 RT: 8.242 min Scan# 716  
 Delta R.T. -0.057 min  
 Lab File: 03151317.D  
 Acq: 16 Mar 2013 12:10 am

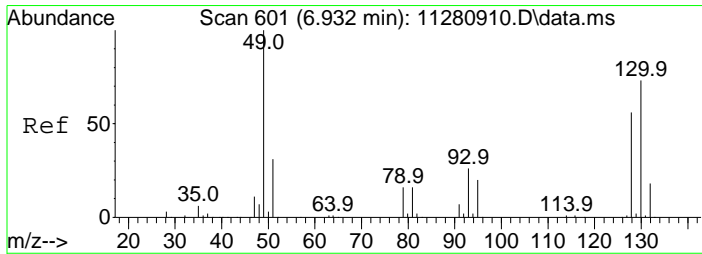
Tgt Ion	Resp	Lower	Upper
43	100		
100	14.3	9.4	14.0#
57	61.1	41.2	61.8
71	49.1	32.3	48.5#



#42  
 trichloroethene  
 Concen: 0.35 nL  
 RT: 8.356 min Scan# 726  
 Delta R.T. -0.056 min  
 Lab File: 03151317.D  
 Acq: 16 Mar 2013 12:10 am

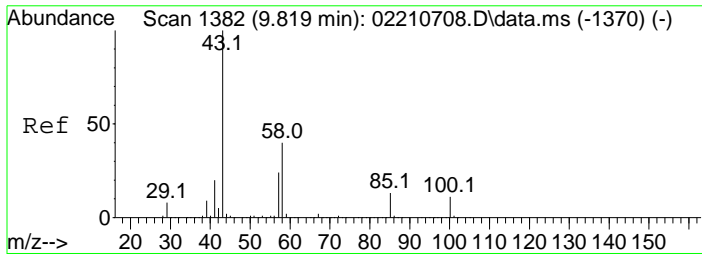
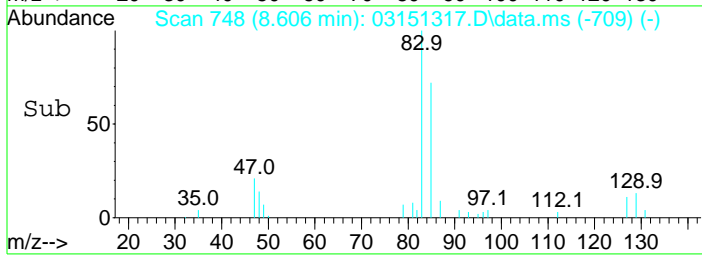
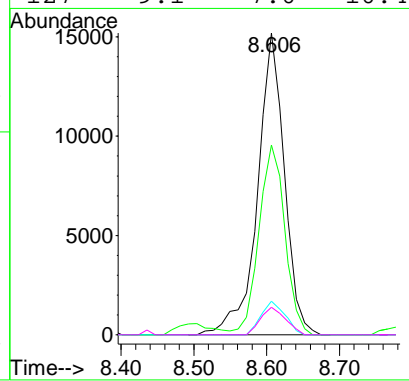
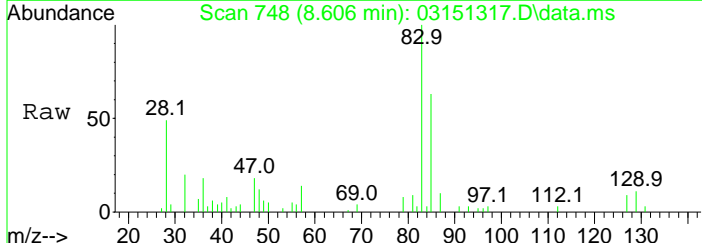
Tgt Ion	Resp	Lower	Upper
130	100		
132	95.2	77.5	127.5
95	98.9	82.3	122.3
136	3.1	0.0	23.5





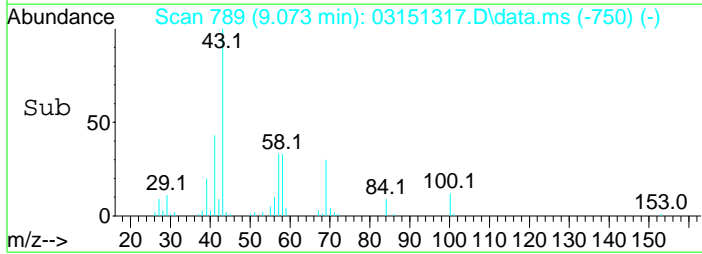
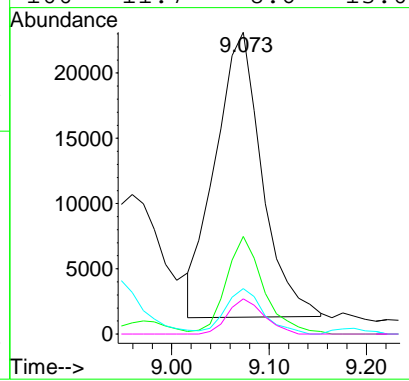
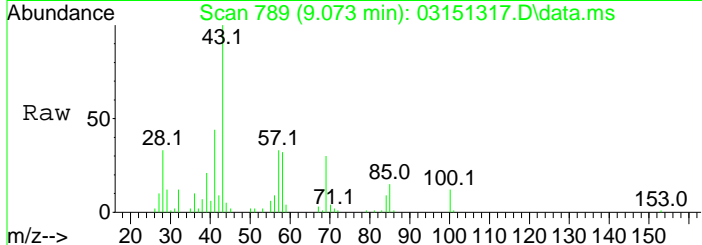
#44  
 bromdichmet (HSGL= 0.15 / HIAL= 0.0045)  
 Concen: 0.09 nL  
 RT: 8.606 min Scan# 748  
 Delta R.T. -0.057 min  
 Lab File: 03151317.D  
 Acq: 16 Mar 2013 12:10 am

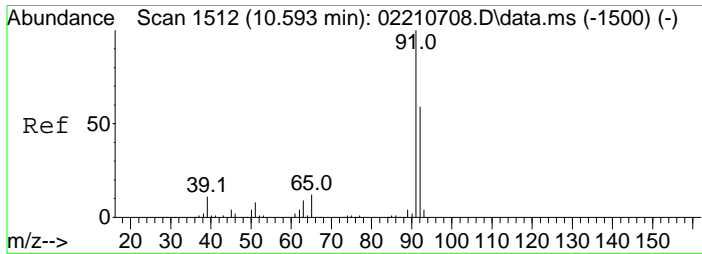
Tgt Ion	Resp	Lower	Upper
83	100		
85	62.8	48.2	80.4
129	11.1	8.9	13.3
127	9.1	7.0	10.4



#45  
 4-methyl-2-pentanone (MIBK)  
 Concen: 0.14 nL m  
 RT: 9.073 min Scan# 789  
 Delta R.T. -0.057 min  
 Lab File: 03151317.D  
 Acq: 16 Mar 2013 12:10 am

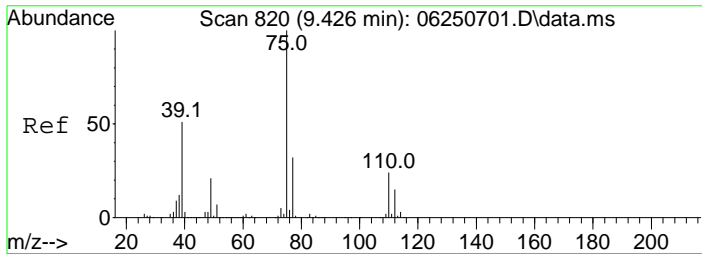
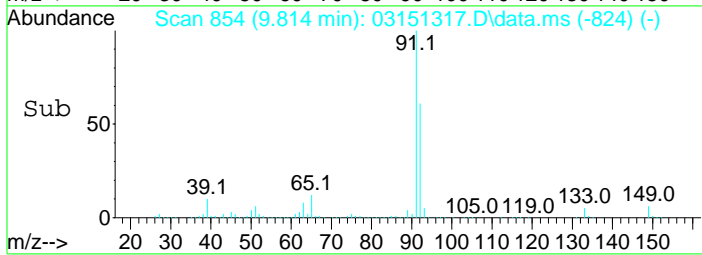
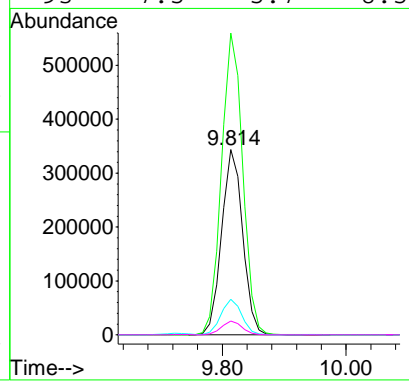
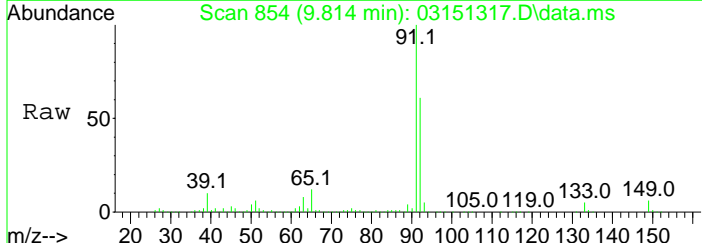
Tgt Ion	Resp	Lower	Upper
43	100		
58	32.4	29.4	49.0
85	15.1	9.8	16.3
100	11.7	8.6	13.0





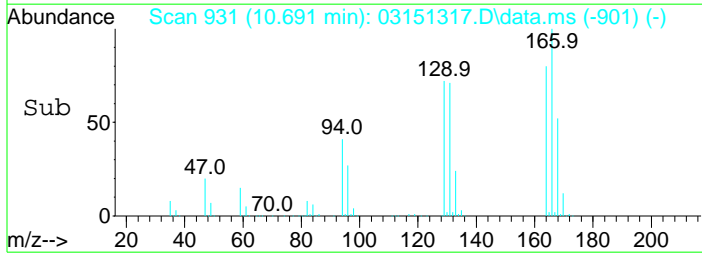
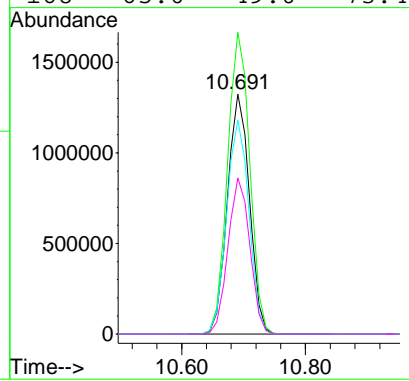
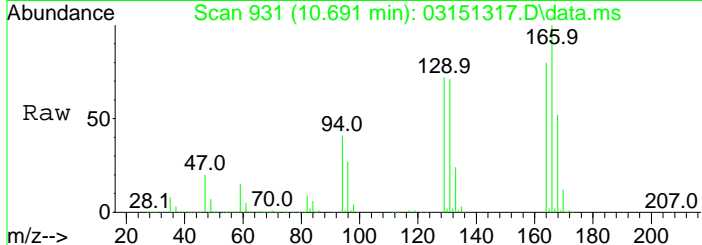
#48  
 toluene  
 Concen: 1.43 nL  
 RT: 9.814 min Scan# 854  
 Delta R.T. -0.056 min  
 Lab File: 03151317.D  
 Acq: 16 Mar 2013 12:10 am

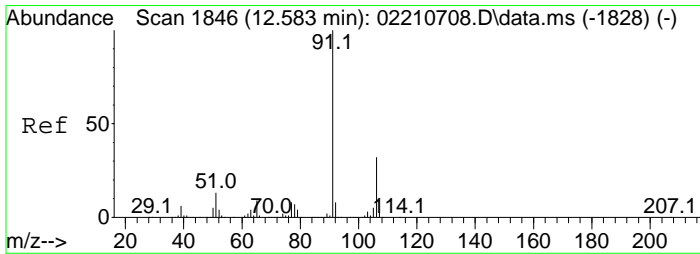
Tgt Ion	Resp	Lower	Upper
92	813625		
91	163.0	127.6	212.8
65	19.2	17.2	25.8
93	7.5	5.7	8.5



#53  
 tetrachloroethene (HIAL= 0.029)  
 Concen: 9.03 nL  
 RT: 10.691 min Scan# 931  
 Delta R.T. -0.056 min  
 Lab File: 03151317.D  
 Acq: 16 Mar 2013 12:10 am

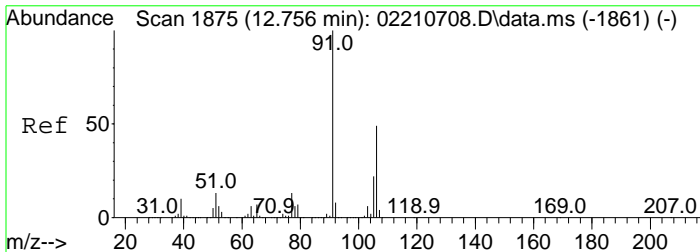
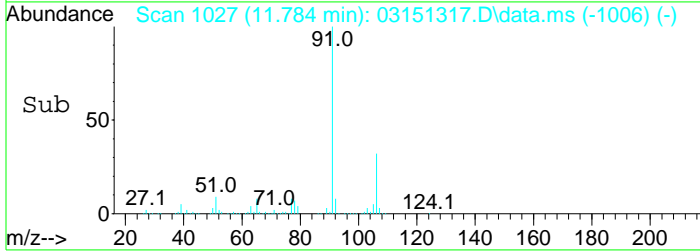
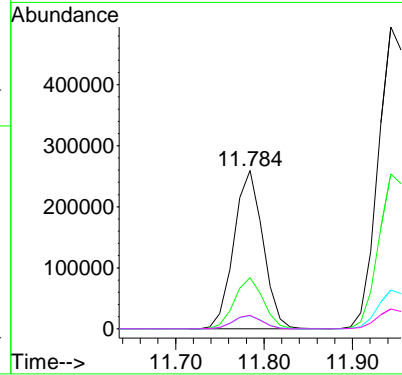
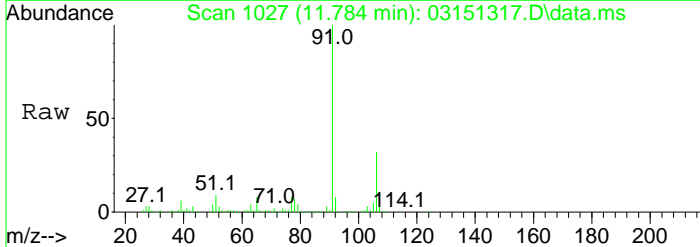
Tgt Ion	Resp	Lower	Upper
164	3280370		
166	125.8	95.6	159.4
131	89.2	65.8	109.7
168	65.0	49.0	73.4





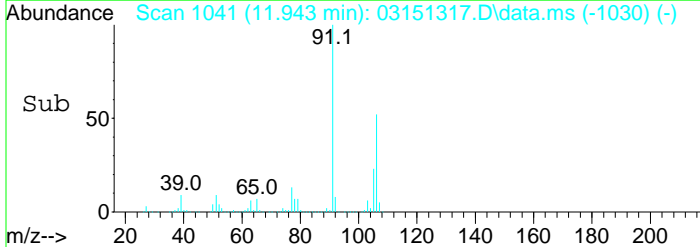
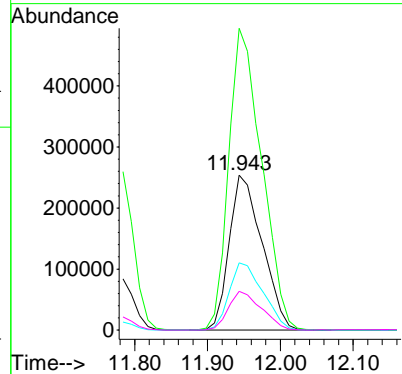
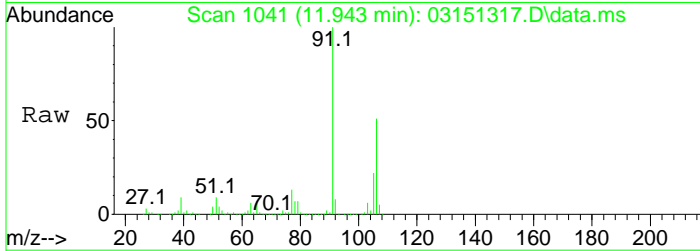
#57  
ethylbenzene  
Concen: 0.51 nL  
RT: 11.784 min Scan# 1027  
Delta R.T. -0.057 min  
Lab File: 03151317.D  
Acq: 16 Mar 2013 12:10 am

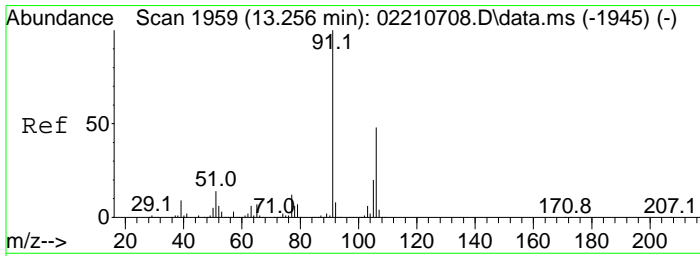
Tgt Ion	Resp	Lower	Upper
91	100		
106	32.3	23.3	38.9
77	8.3	6.7	10.1
65	8.5	7.7	11.5



#58  
p,m-xylene  
Concen: 1.66 nL  
RT: 11.943 min Scan# 1041  
Delta R.T. -0.080 min  
Lab File: 03151317.D  
Acq: 16 Mar 2013 12:10 am

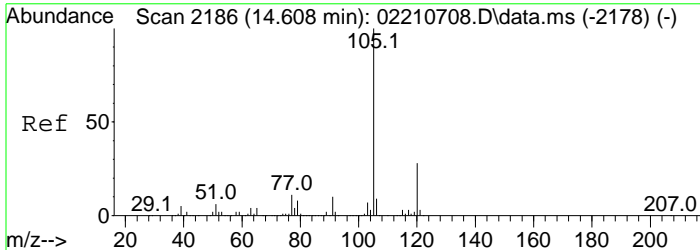
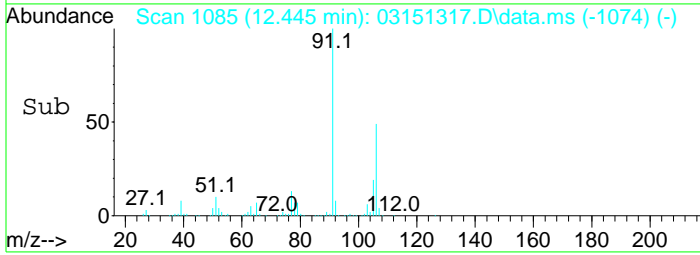
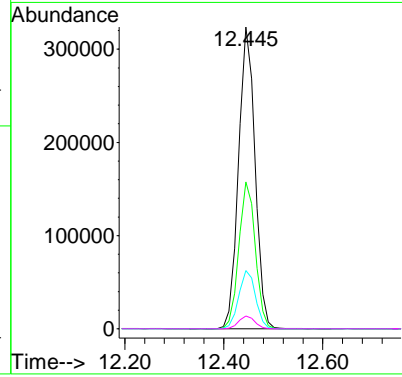
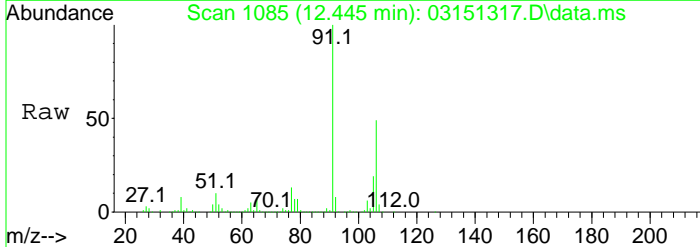
Tgt Ion	Resp	Lower	Upper
106	100		
91	194.7	155.1	258.5
105	43.4	36.6	54.8
77	25.1	21.6	32.4





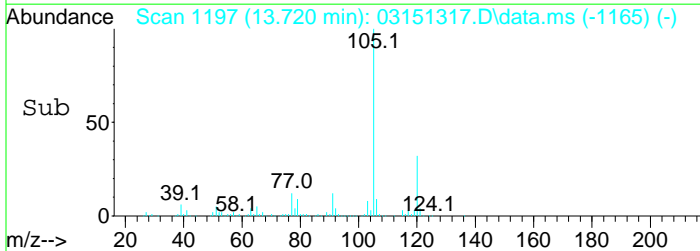
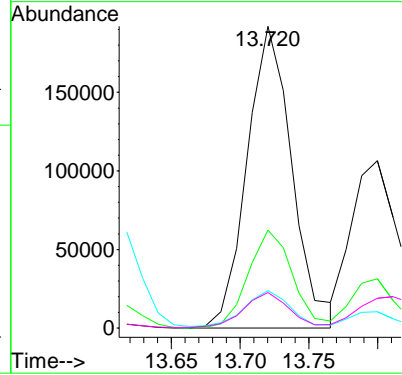
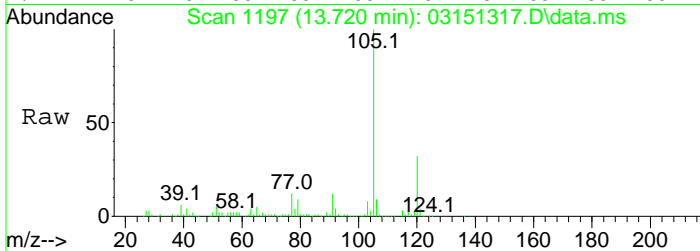
#60  
 o-xylene  
 Concen: 0.79 nL  
 RT: 12.445 min Scan# 1085  
 Delta R.T. -0.079 min  
 Lab File: 03151317.D  
 Acq: 16 Mar 2013 12:10 am

Tgt Ion	Resp	Lower	Upper
91	100		
106	48.7	34.2	57.0
105	19.3	14.7	22.1
107	4.3	3.1	4.7

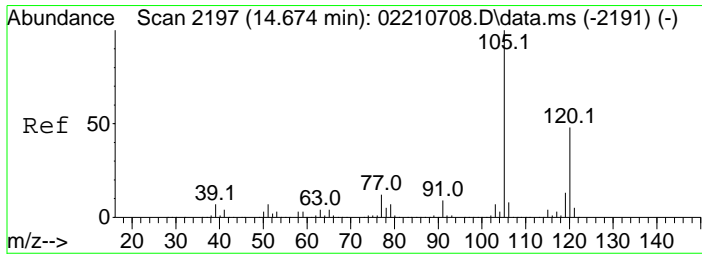


#62  
 4-Ethyltoluene  
 Concen: 0.31 nL  
 RT: 13.720 min Scan# 1197  
 Delta R.T. -0.136 min  
 Lab File: 03151317.D  
 Acq: 16 Mar 2013 12:10 am

Tgt Ion	Resp	Lower	Upper
105	100		
120	32.4	23.6	35.4
91	12.4	8.4	12.6
77	11.8	8.8	13.2

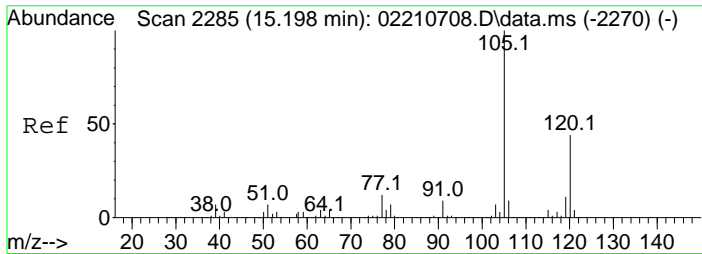
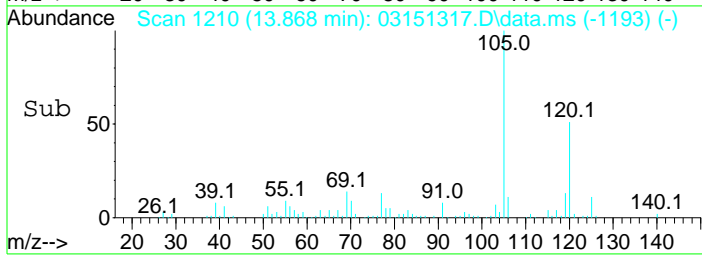
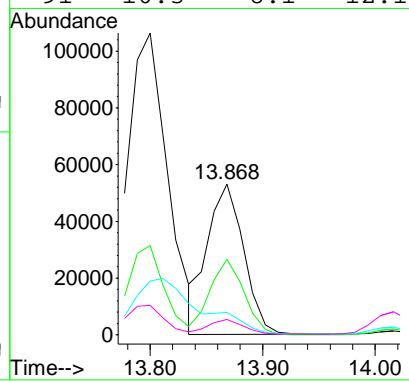
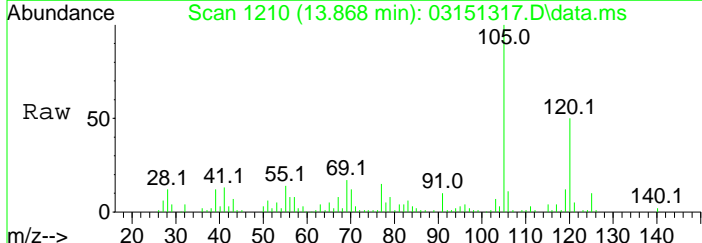






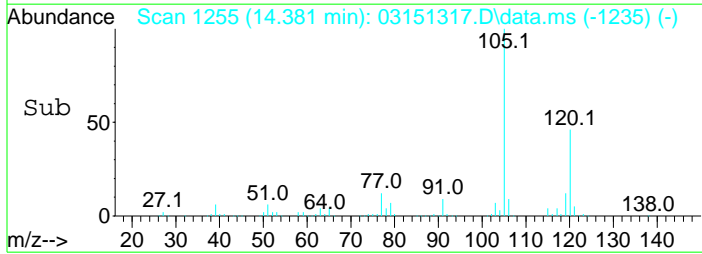
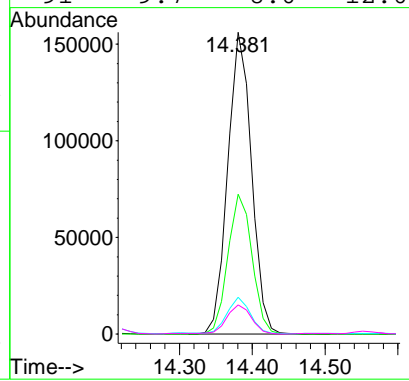
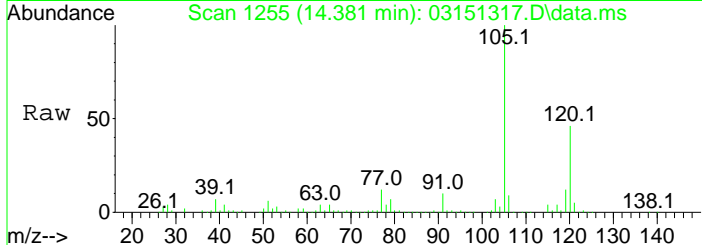
#67  
 1,3,5 TrimethylBz  
 Concen: 0.11 nL  
 RT: 13.868 min Scan# 1210  
 Delta R.T. -0.057 min  
 Lab File: 03151317.D  
 Acq: 16 Mar 2013 12:10 am

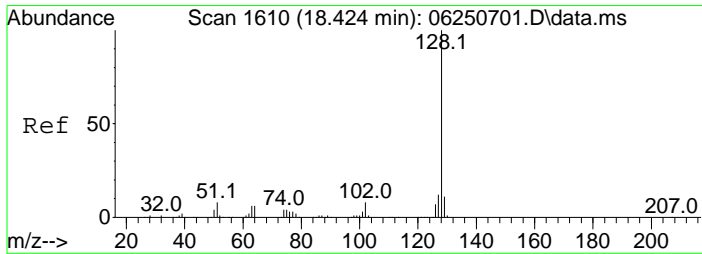
Tgt Ion	105	Resp	119432
Ion Ratio	Lower	Upper	
105	100		
120	50.2	35.6	59.4
77	15.0	9.9	14.9#
91	10.3	8.1	12.1



#68  
 1,2,4 TrimethylBz  
 Concen: 0.32 nL  
 RT: 14.381 min Scan# 1255  
 Delta R.T. -0.068 min  
 Lab File: 03151317.D  
 Acq: 16 Mar 2013 12:10 am

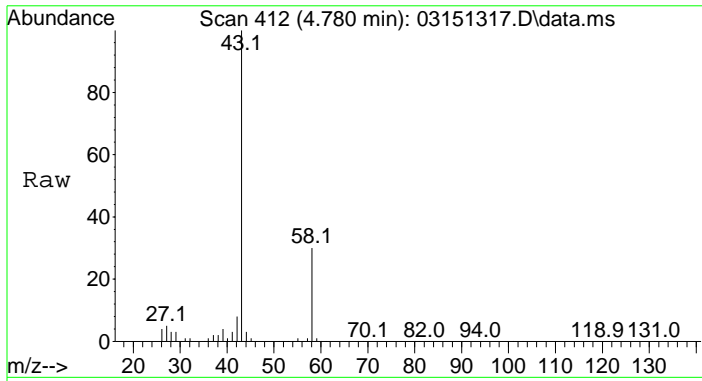
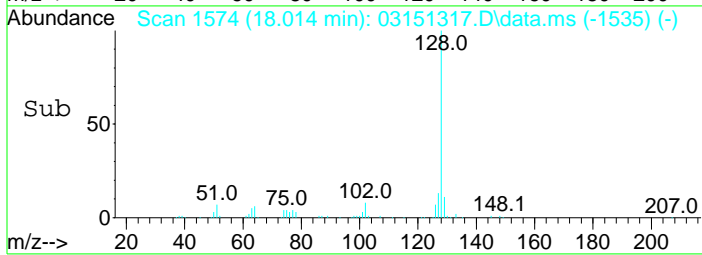
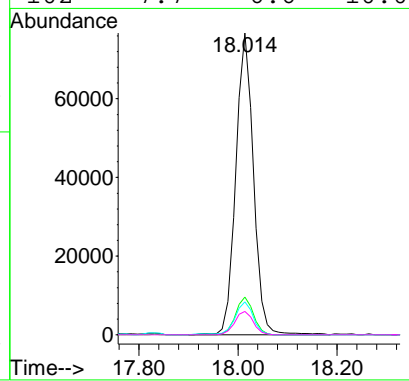
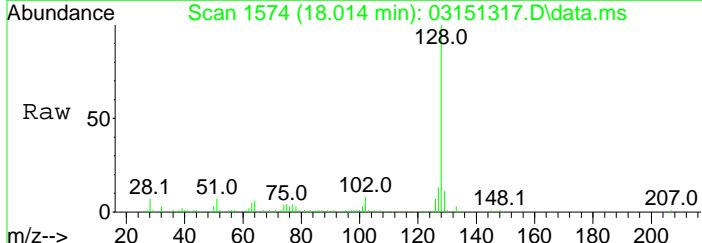
Tgt Ion	105	Resp	353466
Ion Ratio	Lower	Upper	
105	100		
120	46.3	33.8	56.3
77	12.2	9.4	14.0
91	9.7	8.0	12.0





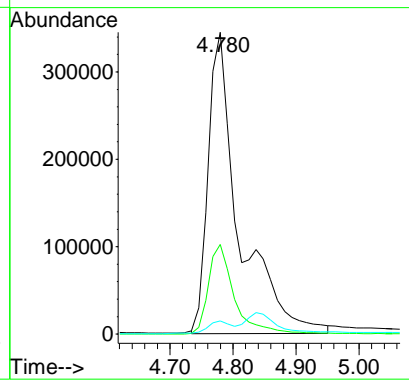
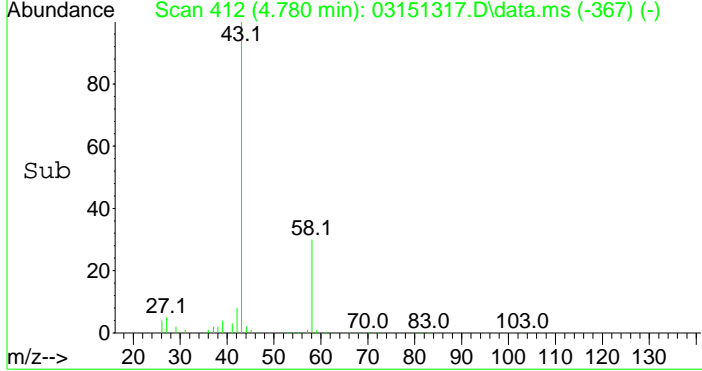
#74  
 Naphthalene (HIAL= 0.0065)  
 Concen: 0.17 nL  
 RT: 18.014 min Scan# 1574  
 Delta R.T. -0.056 min  
 Lab File: 03151317.D  
 Acq: 16 Mar 2013 12:10 am

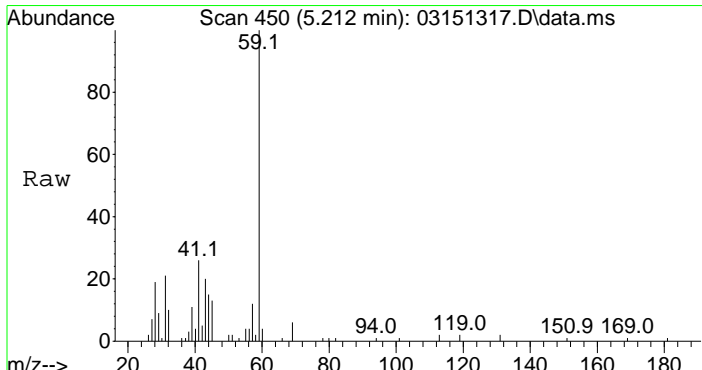
Tgt Ion	Resp	Lower	Upper
128	190549		
127	12.6	9.6	14.4
129	11.0	8.7	13.1
102	7.7	6.6	10.0



#77  
 acetone  
 Concen: 5.19 nL m  
 RT: 4.780 min Scan# 412  
 Delta R.T. 0.012 min  
 Lab File: 03151317.D  
 Acq: 16 Mar 2013 12:10 am

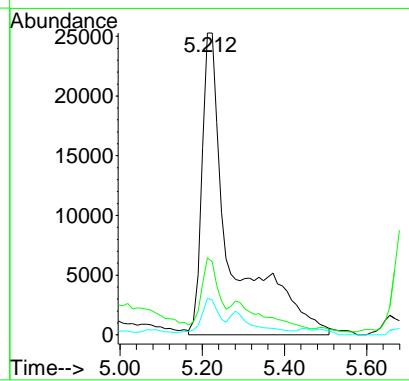
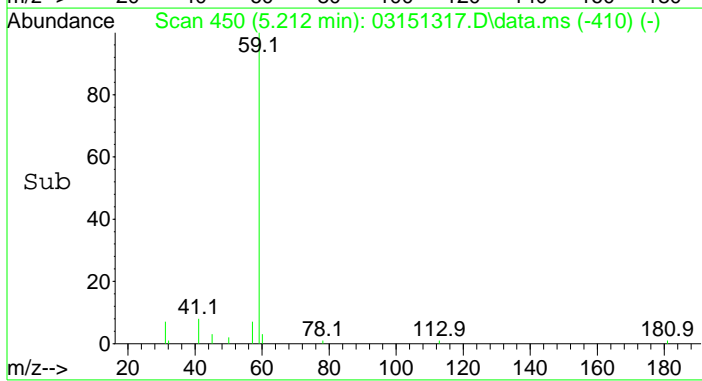
Tgt Ion	Resp	Lower	Upper
43	1182435		
58	25.1	0.0	0.0#
39	3.4	0.0	0.0#





#78  
 tert-Butyl alcohol  
 Concen: 0.45 nL m  
 RT: 5.212 min Scan# 450  
 Delta R.T. -0.046 min  
 Lab File: 03151317.D  
 Acq: 16 Mar 2013 12:10 am

Tgt Ion	Resp	Lower	Upper
59	123361		
41	12.3	0.0	0.0#
57	6.5	0.0	0.0#



**LEVEL-IV VALIDATABLE**  
 TO15DWW.M  
 INTERNAL STANDARD AREA and RT SUMMARY

Lab Name: McCampbell Analytical, Inc.  
 Lab File ID:  
 Instrument ID: GC-24  
 WorkOrder:  
 Date Analyzed: 03/15/2013  
 Time Analyzed: 09:54 AM

	Bromochloromethane				1,4-Difluorobenzene				Chlorobenzene -d5				Bromochloromethane			
	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
ICAL IS's AVG AREA and RT	1040692		6.752273		4159281		7.955182		3891817		11.547		753625		6.7612	
UPPER LIMIT	2081384		7.252273		8318562		8.455182		7783634		12.047		1507250		7.2612	
LOWER LIMIT	520346		6.252273		2079640.5		7.455182		1945908.5		11.047		376812.5		6.2612	
CLIENT SAMPLE NO																
1 CCV	972274		6.716		3919697		7.912		3700163		11.499		972274		6.716	
2 MB-75598	978396		6.704		4036802		7.9		3734139		11.499		976408		6.704	
3 LCS-75598	1009595		6.716		4047172		7.912		3802044		11.499		1009595		6.716	
4 1303408-001A	958611		6.716		3989636		7.912		3725423		11.499		955920		6.716	
5 1303408-001A	958611		6.716		3989636		7.912		3725423		11.499		955920		6.716	
6 1303408-001A	958611		6.716		3989636		7.912		3725423		11.499		955920		6.716	
7 1303408-002A	938158		6.716		3902790		7.912		3680710		11.499		938158		6.716	
8 1303408-002A	938158		6.716		3902790		7.912		3680710		11.499		938158		6.716	
9 1303408-002A	938158		6.716		3902790		7.912		3680710		11.499		938158		6.716	
10 1303408-003A	800392		6.727		3769934		7.912		3646953		11.499		800392		6.727	
11 1303408-003A	800392		6.727		3769934		7.912		3646953		11.499		800392		6.727	
12 1303408-003A	800392		6.727		3769934		7.912		3646953		11.499		800392		6.727	
13 1303408-004A	789650		6.727		3808557		7.923		3638298		11.499		789650		6.727	
14 1303408-004A	789650		6.727		3808557		7.923		3638298		11.499		789650		6.727	
15 1303408-004A	789650		6.727		3808557		7.923		3638298		11.499		789650		6.727	
16 1303287-001a	959488		6.716		4059000		7.923		3754558		11.499		958636		6.716	
17 1303287-001a	959488		6.716		4059000		7.923		3754558		11.499		958636		6.716	
18 1303287-001a	959488		6.716		4059000		7.923		3754558		11.499		958636		6.716	
19 1303287-002a	981688		6.704		4046036		7.9		3801146		11.499		979651		6.704	

20	1303287-002a	981688		6.704		4046036		7.9		3801146		11.499		979651		6.704	
21	1303287-002a	981688		6.704		4046036		7.9		3801146		11.499		979651		6.704	
22	1303287-007a	969677		6.704		3996980		7.912		3733701		11.499		969677		6.704	
23	1303287-007a	969677		6.704		3996980		7.912		3733701		11.499		969677		6.704	
24	1303287-007a	969677		6.704		3996980		7.912		3733701		11.499		969677		6.704	
25	1303287-008a	1040885		6.704		4252868		7.9		4002448		11.488		1040885		6.704	
26	1303287-008a	1040885		6.704		4252868		7.9		4002448		11.488		1040885		6.704	
27	1303287-008a	1040885		6.704		4252868		7.9		4002448		11.488		1040885		6.704	
28	1303287-009a	1044669		6.704		4289236		7.9		3975691		11.488		1044669		6.704	
29	1303287-009a	1044669		6.704		4289236		7.9		3975691		11.488		1044669		6.704	
30	1303287-009a	1044669		6.704		4289236		7.9		3975691		11.488		1044669		6.704	

Area Upper Limit = +100% of internal standard area

Area Lower Limit = -50% of internal standard area

RT Upper Limit = +0.50 of internal standard RT

RT Lower Limit = -0.50 of internal standard RT

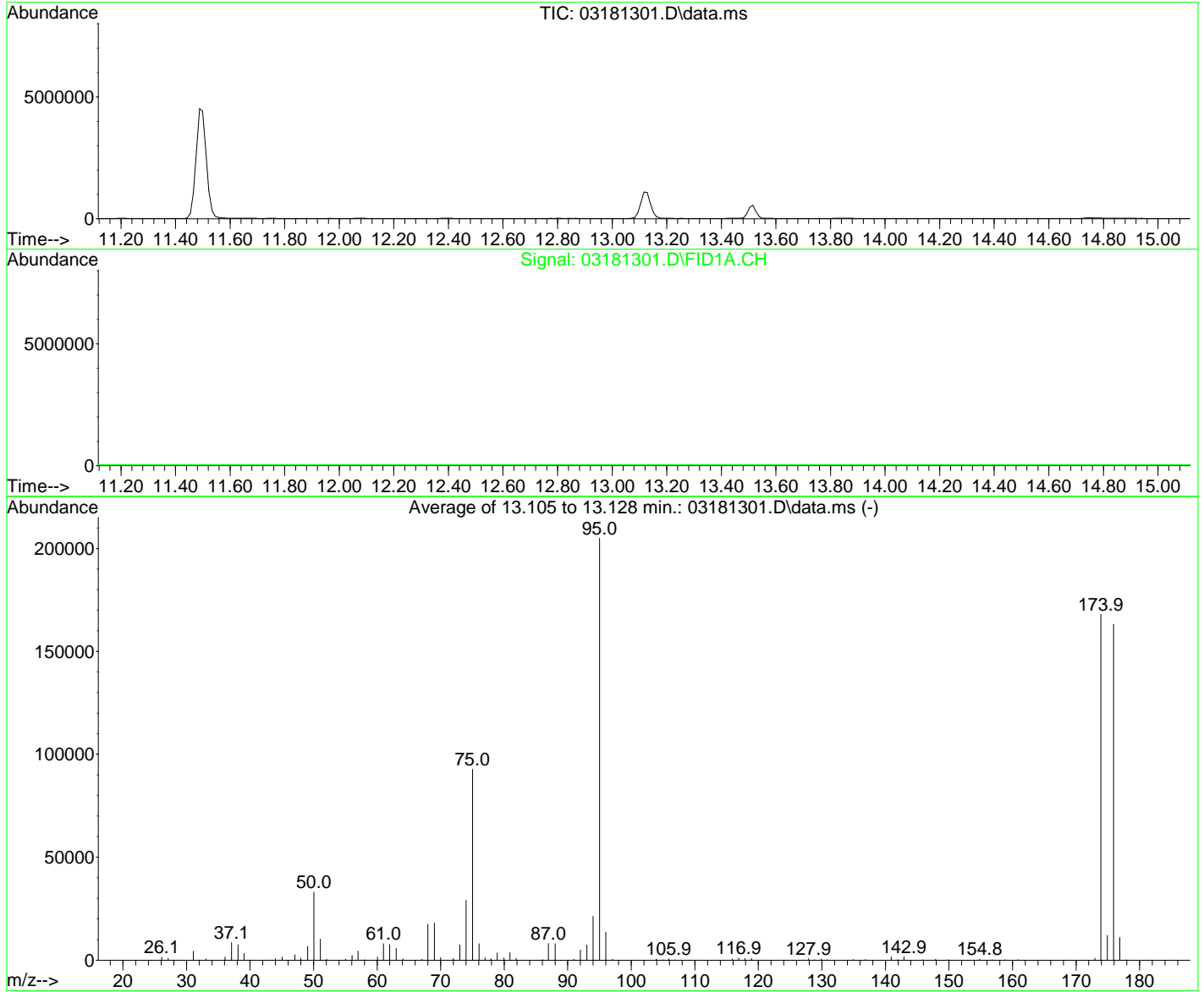
## Chemstation Sequence

Inst.	Type	Vial	Data File	Anal Date	Method	Sample	Mult.
GC-24	TUNE	16	03181301.D	3/18/13 10:04 AM	TO15DW.M	tune	1
GC-24	CCV	9	03181302.D	3/18/13 10:44 AM	TO15DW.M	CCV	1
GC-24	SAMP	6	03181303.D	3/18/13 11:24 AM	TO15DW.M	1303408-003A 20ml	1
GC-24	SAMP	6	03181303A.D	3/18/13 11:24 AM	TO15DW.M	1303408-003A ppmv 20ml	1
GC-24	SAMP	6	03181303B.D	3/18/13 11:24 AM	TO15DW.M	1303408-003A ppmv 20ml	1
GC-24	SAMP	7	03181304.D	3/18/13 12:04 PM	TO15DW.M	1303408-004A 20ml	1
GC-24	SAMP	7	03181304A.D	3/18/13 12:04 PM	TO15DW.M	1303408-004A ppmv 20ml	1
GC-24	SAMP	7	03181304B.D	3/18/13 12:04 PM	TO15DW.M	1303408-004A ppmv 20ml	1

Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 03181301.D  
 Acq On : 18 Mar 2013 10:04 am  
 Operator :  
 Sample : tune  
 Misc : TO15\_SOILGAS (Sig #1); (Sig #2)  
 ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint4.p  
 Integration File signal 2: rteint2.p

Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Title : 8240 calibration table  
 Last Update : Mon Apr 08 09:48:36 2013



AutoFind: Scans 1143, 1144, 1145; Background Corrected with Scan 1137

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.2	33152	PASS
75	95	30	66	45.2	92701	PASS
95	95	100	100	100.0	204970	PASS
96	95	5	9	6.7	13671	PASS
173	174	0.00	2	0.6	997	PASS
174	95	50	100	82.0	168042	PASS
175	174	4	9	7.2	12095	PASS
176	174	93	101	97.1	163248	PASS
177	176	5	9	6.7	10966	PASS

Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 03181302.D  
 Acq On : 18 Mar 2013 10:44 am  
 Operator :  
 Sample : CCV  
 Misc : TO15\_SOILGAS (Sig #1); (Sig #2)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 12 17:17:08 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 12 16:25:09 2013  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) bromochloromethane	6.716	130	1040208	50.00	nL	-0.06	
39) 1,4-Difluorobenzene (Is)	7.912	114	4149496	50.00	nL	-0.06	
56) *CHLOROBENZENE-D5	11.499	117	3895922	50.00	nL	-0.06	
76) bromochloromethane	6.716	130	1040208	50.00	nL	0.05	
System Monitoring Compounds							
22) 1,2-DCA-d4	7.274	65	981031	94.54	nL	-0.07	
47) toluene-d8(surr)	9.723	98	3164454	94.29	nL	-0.06	
65) 4-BFB (surr)	13.128	95	2171457	88.49	nL	-0.05	
Target Compounds							
4) Propene (coelute w/Pro...	3.493	41	828115	4.47	nL		Qvalue # 99
5) Dichlorodifluoromethane...	3.550	85	2247715	4.46	nL		97
7) Freon 114(12dichloro-1...	3.732	85	2128319m	4.21	nL		
8) chloromethane (coelute...	3.709	50	939381m	5.14	nL		
9) vinyl chloride (HIAL= ...	3.857	62	839657	4.20	nL		96
10) 1.3-Butadiene	3.937	54	514214	3.94	nL	#	88
11) bromomethane	4.153	96	500726	4.79	nL		99
12) chloroethane	4.267	64	344155	4.91	nL		93
13) Trichlorofluoromethane...	4.632	101	1639517	4.91	nL		97
14) 1,1-dichloroethene	5.053	96	627705m	6.34	nL		
15) methylene dichloride	5.281	84	638049m	3.22	nL		
16) carbon disulfide	5.406	76	2171329m	4.37	nL		
17) Freon-113 (Trichlorotr...	5.156	101	1243457	6.28	nL		90
18) Acrylonitrile	5.110	53	461142	6.13	nL		97
19) trans-1,2-dichloroethene	5.771	96	1034343	4.41	nL	#	74
20) vinyl acetate	5.953	43	2647917	4.83	nL	#	96
21) MTBE	5.782	73	2929442	4.24	nL	#	89
23) 1,2-Dichloroethane (HI...	7.354	62	1326354	4.34	nL	#	95
24) 1,1-dichloroethane	5.987	63	1822157	4.41	nL	#	95
25) 2-butanone (MEK)	6.226	72	625036	3.82	nL	#	73
26) OXY-DIISOPROPYL ETHER	6.283	45	3466424	4.55	nL	#	94
27) cis-1,2-dichloroethene	6.477	96	1113569	4.37	nL	#	71
29) Chloroform (HIAL= 0.045)	6.773	83	2024546	4.42	nL	#	95
30) Ethyl Acetate	6.511	43	2370887	4.63	nL	#	73
31) OXY-ETBE	6.647	59	3304143	4.23	nL	#	91
32) THF	6.887	42	1404331	3.95	nL	#	87
33) Cyclohexane	7.650	56	1718746	4.21	nL	#	76
34) Hexane	6.272	57	1848205	4.24	nL	#	95
35) p-Dioxane	8.481	88	731391	4.10	nL	#	80
36) 1,1,1-Trichloroethane	7.251	97	2079749	4.47	nL		97
37) benzene (HIAL= 0.013)	7.581	78	3295715	4.24	nL	#	93
38) carbon tetrachloride (...	7.616	117	2106043	4.52	nL		98
40) OXY-TAME	7.821	73	3310416	4.29	nL	#	88
41) Heptane	8.242	43	2009787	4.86	nL	#	79
42) trichloroethene	8.344	130	1540721	4.28	nL		96
43) 1,2-dichloropropane (H...	8.390	63	1228349	4.55	nL		96
44) bromdichmet (HSGI= 0.1...	8.606	83	2196693	4.69	nL		98
45) 4-methyl-2-pentanone (...	9.073	43	2572150	4.65	nL	#	90
46) cis-1,3-dichloropropen...	9.153	75	1904943	4.27	nL		98
48) toluene	9.814	92	2507142	4.01	nL		91
49) 1,1,2-trichloroethane ...	9.939	97	1367288	4.30	nL		91
50) trans-1,3-dichloroprop...	9.688	75	1767736	4.36	nL		95
51) 2-hexanone (MBK)	10.076	43	2430761	4.43	nL	#	96
52) dibromochloromethane (...	10.554	127	1792949	4.88	nL		99
53) tetrachloroethene (HIA...	10.691	164	1550920	3.88	nL		98
54) EDB (HIAL= 0.0022)	10.782	107	2032031	4.04	nL		97



Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 03181302.D  
 Acq On : 18 Mar 2013 10:44 am  
 Operator :  
 Sample : CCV  
 Misc : TO15\_SOILGAS (Sig #1); (Sig #2)  
 ALS Vial : 9 Sample Multiplier: 1

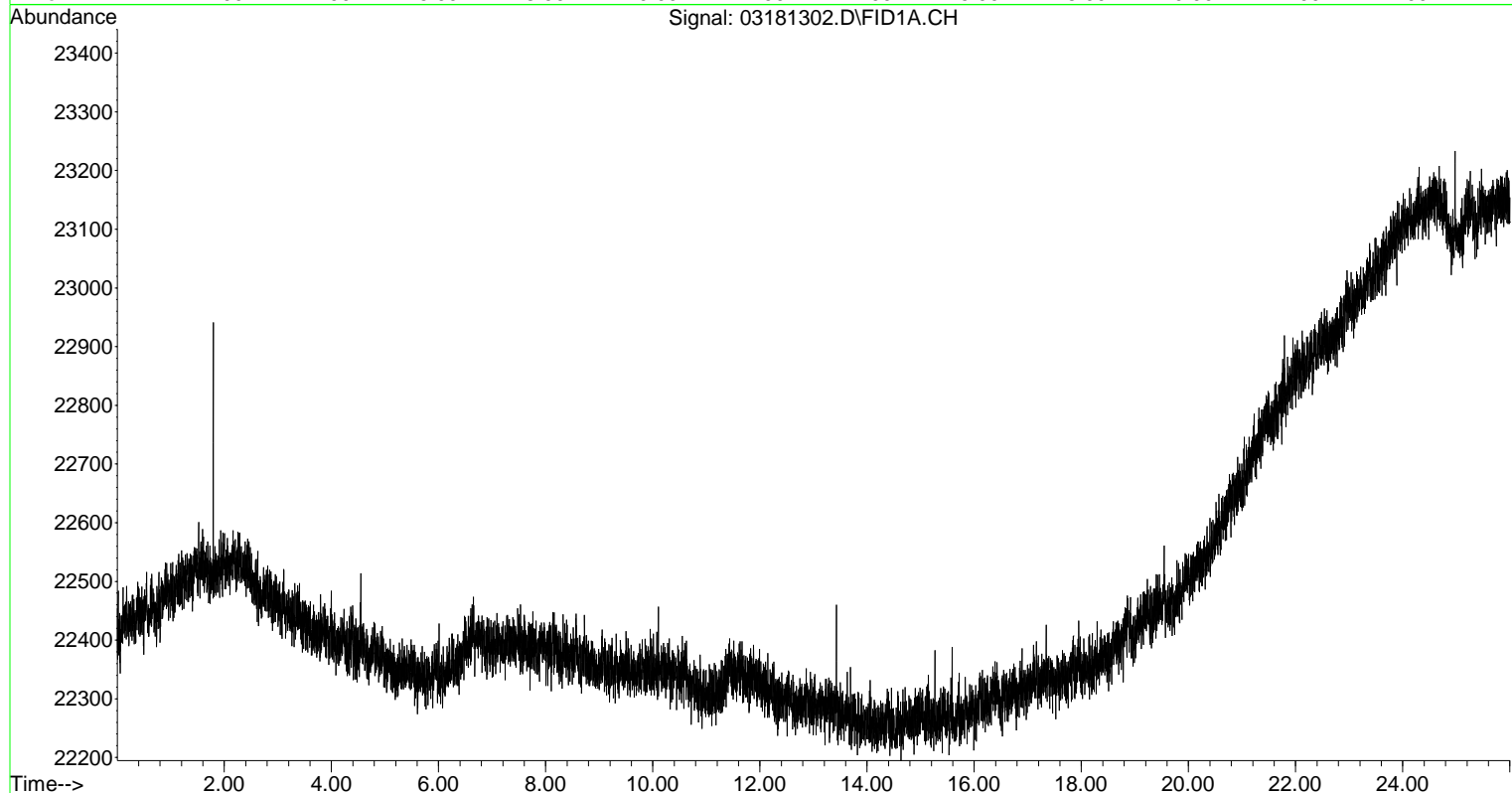
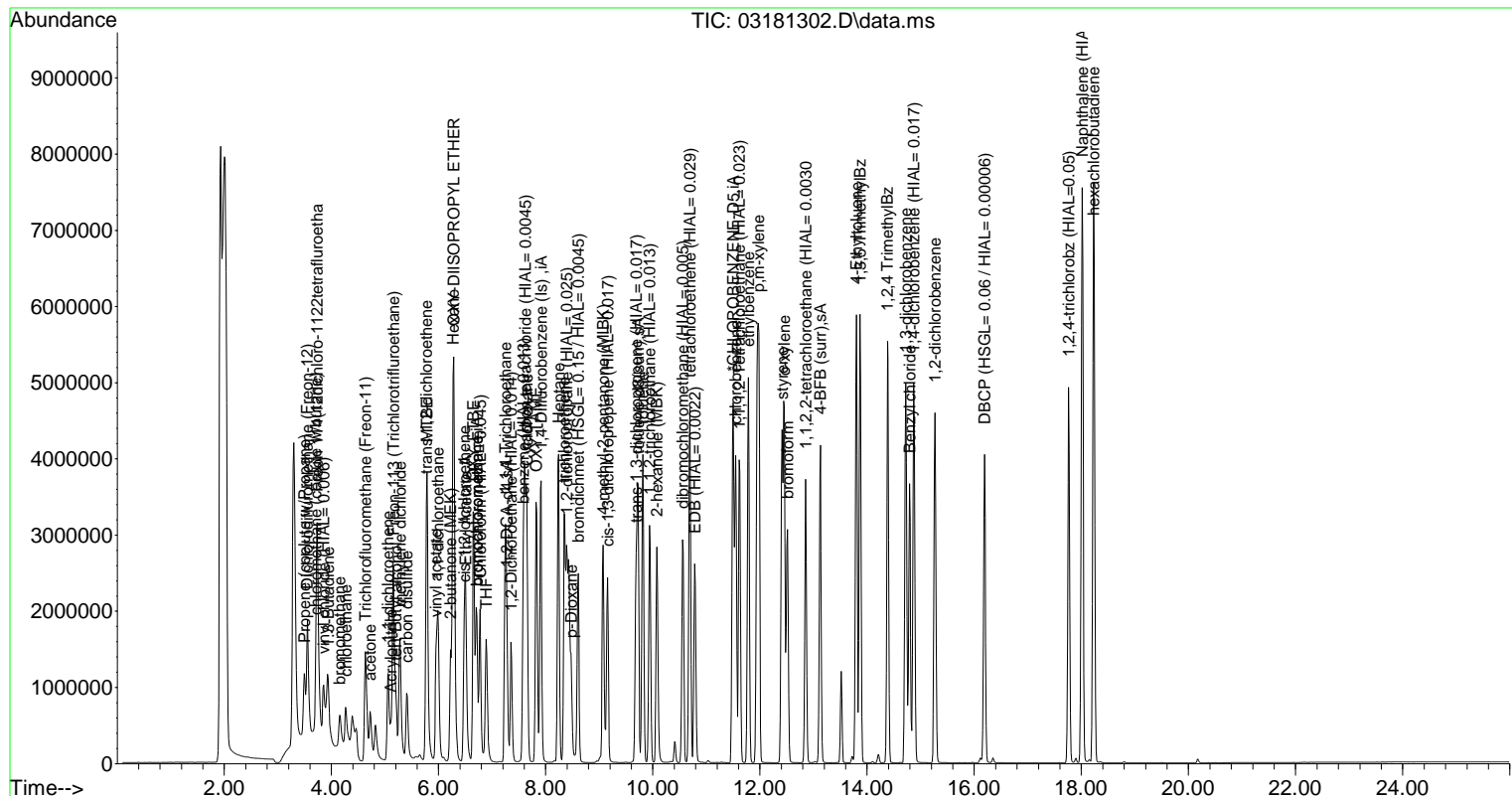
Quant Time: Apr 12 17:17:08 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 12 16:25:09 2013  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) chlorobenzene	11.545	112	3137646	4.13	nL	# 94
57) ethylbenzene	11.784	91	5076240	4.06	nL	95
58) p,m-xylene	11.966	106	4134748	8.06	nL	88
59) styrene	12.410	104	3285231	4.48	nL	99
60) o-xylene	12.456	91	4396840	4.32	nL	92
61) bromoform	12.513	173	2232470	5.41	nL	# 97
62) 4-Ethyltoluene	13.800	105	5552161	4.33	nL	95
63) 1,1,2,2-tetrachloroeth...	12.855	83	2659382	3.83	nL	97
64) 1,1,1,2-Tetrachloroeth...	11.613	131	1688840	4.55	nL	99
66) Benzyl chloride	14.791	91	3988201	3.91	nL	95
67) 1,3,5 TrimethylBz	13.868	105	4617843	4.10	nL	93
68) 1,2,4 TrimethylBz	14.381	105	4690277	4.02	nL	94
69) 1,3-dichlorobenzene	14.722	146	3236717	4.18	nL	97
70) 1,4-dichlorobenzene (H...	14.870	146	3207054	4.12	nL	97
71) 1,2-dichlorobenzene	15.269	146	3009370	4.12	nL	97
72) DBCP (HSGL= 0.06 / HIA...	16.192	157	1711808	5.40	nL	98
73) 1,2,4-trichlorobz (HIA...	17.763	180	2506233	3.83	nL	98
74) Naphthalene (HIAL= 0.0...	18.014	128	9449309	7.98	nL	# 95
75) hexachlorobutadiene	18.230	225	2343297	3.88	nL	# 94
77) acetone	4.723	43	1393667m	4.57	nL	
78) tert-Butyl alcohol	5.201	59	1431059m	4.06	nL	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 03181302.D  
 Acq On : 18 Mar 2013 10:44 am  
 Operator :  
 Sample : CCV  
 Misc : TO15\_SOILGAS (Sig #1); (Sig #2)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 12 17:17:08 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 12 16:25:09 2013  
 Response via : Initial Calibration



McC Campbell Analytical Inc. CONTINUING CALIBRATION  
TO15DWW.M

Instr: GC-24  
FileID: 03181302.D

AnalDate: 3/18/2013 10:44:00 AM

Compound Name	Avg RF/CF	CCV RF/CF	Curve Type	Spiked	Quant	%REC	Units	%Diff <sup>2</sup>	%Drift <sup>3</sup>	Max %D	Pass
1,1-Difluoroethane (leak check compd)		0.0000	AvgRF	25.00	0.00	0.00	µg/L				Y
Propene (coelute w/Propane)	12.6159	0.7961	AvgRF	25.00	22.36	89.44	µg/L	-10.56			Y
Dichlorodifluoromethane (Freon-12)	22.8504	2.1608	AvgRF	25.00	22.31	89.23	µg/L	-10.77			Y
norflurane (tetrafluoroethane leak chec	0.1950		AvgRF		0.00		µg/L	-100.00			
Freon 114(12dichloro-1122tetrafluoroetha	22.6296	2.0461	AvgRF	25.00	21.03	84.13	µg/L	-15.87			Y
chloromethane (coelute w/butane)	20.5720	0.9017	Quad	25.00	25.50	101.98	µg/L	1.98	1.982		Y
vinyl chloride (HIAL= 0.006)	9.4420	0.8072	AvgRF	25.00	20.99	83.96	µg/L	-16.04			Y
1,3-Butadiene	6.1700	0.4943	AvgRF	25.00	19.69	78.74	µg/L	-21.26			Y
bromomethane	4.9296	0.4814	AvgRF	25.00	23.97	95.90	µg/L	-4.10			Y
chloroethane	3.3056	0.3309	AvgRF	25.00	24.57	98.28	µg/L	-1.72			Y
Trichlorofluoromethane (Freon-11)	15.7138	1.5761	AvgRF	25.00	24.56	98.22	µg/L	-1.78			Y
1,1-dichloroethene	8.4763	0.6034	Quad	25.00	31.68	126.74	µg/L	26.74	26.736		Y
methylene dichloride	16.0869	0.6134	Line	25.00	16.10	64.38	µg/L	-35.62	-35.616		N
carbon disulfide	31.8535	2.0874	Line	25.00	21.83	87.33	µg/L	-12.67	-12.674		Y
Freon-113 (Trichlorotrifluoroethane)	18.2312	1.1954	Quad	25.00	31.39	125.58	µg/L	25.58	25.578		Y
Acrylonitrile	6.3586	0.4433	Quad	25.00	30.64	122.57	µg/L	22.57	22.57		Y
trans-1,2-dichloroethene	11.0816	0.9944	AvgRF	25.00	22.04	88.15	µg/L	-11.85			Y
vinyl acetate	25.9272	2.5456	AvgRF	25.00	24.14	96.57	µg/L	-3.43			Y
MTBE	32.5902	2.8162	AvgRF	25.00	21.21	84.83	µg/L	-15.17			Y
1,2-DCA-d4	0.5076	0.0472	AvgRF	500.00	472.72	94.54	µg/L	-5.46			Y
1,2-Dichloroethane (HIAL= 0.014)	14.4316	1.2751	AvgRF	25.00	21.70	86.81	µg/L	-13.19			Y
1,1-dichloroethane	19.5026	1.7517	AvgRF	25.00	22.05	88.18	µg/L	-11.82			Y
2-butanone (MEK)	7.5649	0.6009	AvgRF	25.00	19.12	76.49	µg/L	-23.51			Y
OXY-DIISOPROPYL ETHER	35.9566	3.3324	AvgRF	25.00	22.73	90.91	µg/L	-9.09			Y
cis-1,2-dichloroethene	12.0426	1.0705	AvgRF	25.00	21.86	87.44	µg/L	-12.56			Y
3-Chloroprene (1,3-Butadiene, 3-Cl) (NOT		0.0000	AvgRF	25.00	0.00	0.00	µg/L	-100.00			Y
Chloroform (HIAL= 0.045)	21.6758	1.9463	AvgRF	25.00	22.08	88.31	µg/L	-11.69			Y
Ethyl Acetate	24.1627	2.2792	AvgRF	25.00	23.15	92.60	µg/L	-7.40			Y
OXY-ETBE	36.8481	3.1764	AvgRF	25.00	21.17	84.67	µg/L	-15.33			Y
THF	16.6059	1.3500	AvgRF	25.00	19.74	78.96	µg/L	-21.04			Y
Cyclohexane	19.3203	1.6523	AvgRF	25.00	21.04	84.14	µg/L	-15.86			Y
Hexane	21.4930	1.7768	AvgRF	25.00	21.20	84.80	µg/L	-15.20			Y
p-Dioxane	8.4377	0.7031	AvgRF	25.00	20.48	81.92	µg/L	-18.08			Y
1,1,1-Trichloroethane	21.9948	1.9994	AvgRF	25.00	22.35	89.41	µg/L	-10.59			Y
benzene (HIAL= 0.013)	36.7477	3.1683	AvgRF	25.00	21.19	84.77	µg/L	-15.23			Y
carbon tetrachloride (HIAL= 0.0045)	22.0159	2.0246	AvgRF	25.00	22.60	90.39	µg/L	-9.61			Y
OXY-TAME	8.8104	0.7978	AvgRF	25.00	21.46	85.84	µg/L	-14.16			Y
Heptane	4.8692	0.4843	AvgRF	25.00	24.30	97.18	µg/L	-2.82			Y
trichloroethene	4.2672	0.3713	AvgRF	25.00	21.39	85.58	µg/L	-14.42			Y
1,2-dichloropropane (HIAL= 0.025)	3.2028	0.2960	AvgRF	25.00	22.73	90.90	µg/L	-9.10			Y
bromodichmet (HSGL= 0.15 / HIAL= 0.0045)	5.5460	0.5294	AvgRF	25.00	23.47	93.89	µg/L	-6.11			Y
4-methyl-2-pentanone (MIBK)	6.5410	0.6199	AvgRF	25.00	23.24	92.95	µg/L	-7.05			Y
cis-1,3-dichloropropene (HIAL= 0.017)	5.2873	0.4591	AvgRF	25.00	21.35	85.42	µg/L	-14.58			Y
toluene-d8(surr)	0.4049	0.0381	AvgRF	500.00	471.46	94.29	µg/L	-5.71			Y
toluene	7.3990	0.6042	AvgRF	25.00	20.06	80.23	µg/L	-19.77			Y
1,1,2-trichloroethane (HIAL= 0.013)	3.7686	0.3295	AvgRF	25.00	21.50	86.00	µg/L	-14.00			Y
trans-1,3-dichloropropene (HIAL= 0.017)	4.8147	0.4260	AvgRF	25.00	21.81	87.23	µg/L	-12.77			Y
2-hexanone (MBK)	6.5074	0.5858	AvgRF	25.00	22.15	88.60	µg/L	-11.40			Y
dibromochloromethane (HIAL= 0.005)	4.3538	0.4321	AvgRF	25.00	24.42	97.68	µg/L	-2.32			Y
tetrachloroethene (HIAL= 0.029)	4.7391	0.3738	AvgRF	25.00	19.39	77.55	µg/L	-22.45			Y
EDB (HIAL= 0.0022)	5.9600	0.4897	AvgRF	25.00	20.18	80.73	µg/L	-19.27			Y
chlorobenzene	8.8992	0.7562	AvgRF	25.00	20.65	82.60	µg/L	-17.40			Y
ethylbenzene	15.7877	1.3030	AvgRF	25.00	20.28	81.13	µg/L	-18.87			Y
p,m-xylene	6.5812	0.5307	AvgRF	50.00	40.32	80.63	µg/L	-19.37			Y
styrene	10.2229	0.8432	Quad	25.00	22.38	89.50	µg/L	-10.50	-10.496		Y
o-xylene	13.6743	1.1286	AvgRF	25.00	21.61	86.42	µg/L	-13.58			Y
bromoform	5.2192	0.5730	AvgRF	25.00	27.04	108.16	µg/L	8.16			Y
4-Ethyltoluene	19.1161	1.4251	Quad	25.00	21.67	86.66	µg/L	-13.34	-13.34		Y
1,1,2,2-tetrachloroethane (HIAL= 0.0030)	8.7481	0.6826	AvgRF	25.00	19.16	76.63	µg/L	-23.37			Y
1,1,1,2-Tetrachloroethane (HIAL= 0.023)	4.6877	0.4335	AvgRF	25.00	22.76	91.02	µg/L	-8.98			Y
4-BFB (surr)	0.3149	0.0279	AvgRF	500.00	442.47	88.49	µg/L	-11.51			Y
Benzyl chloride	13.0778	1.0237	AvgRF	25.00	19.55	78.18	µg/L	-21.82			Y
1,3,5 TrimethylBz	14.1478	1.1853	AvgRF	25.00	20.52	82.09	µg/L	-17.91			Y
1,2,4 TrimethylBz	14.6541	1.2039	AvgRF	25.00	20.12	80.49	µg/L	-19.51			Y
1,3-dichlorobenzene	12.1698	0.8308	Line	25.00	20.92	83.66	µg/L	-16.34	-16.34		Y
1,4-dichlorobenzene (HIAL= 0.017)	12.3491	0.8232	Line	25.00	20.58	82.32	µg/L	-17.68	-17.678		Y
1,2-dichlorobenzene	11.5054	0.7724	Line	25.00	20.62	82.49	µg/L	-17.51	-17.506		Y
DBCP (HSGL= 0.06 / HIAL= 0.00006)	4.0027	0.4394	AvgRF	25.00	27.02	108.10	µg/L	8.10			Y
1,2,4-trichlorobz (HIAL=0.05)	9.7663	0.6433	Quad	25.00	19.16	76.66	µg/L	-23.34	-23.344		Y
Naphthalene (HIAL= 0.0065)	29.8516	2.4254	AvgRF	50.00	39.92	79.84	µg/L	-20.16			Y
hexachlorobutadiene	9.7512	0.6015	Quad	25.00	19.40	77.60	µg/L	-22.40	-22.4		Y
acetone	16.0838	1.3398	Quad	25.00	22.84	91.35	µg/L	-8.65	-8.654		Y
tert-Butyl alcohol	16.9620	1.3757	AvgRF	25.00	20.28	81.11	µg/L	-18.89			Y

Average of the Responses\*

15

Data Path : D:\HPCHEM\GC24\DATA\  
 Data File : 03181303.D  
 Acq On : 18 Mar 2013 11:24 am  
 Operator :  
 Sample : 1303408-003A ppmv 20ml chloroform only (Sig #1); 1303408-003A ppmv 20ml (Sig #2)  
 Misc : TO15\_SOILGAS  
 ALS Vial : 6 Sample Multiplier: 1

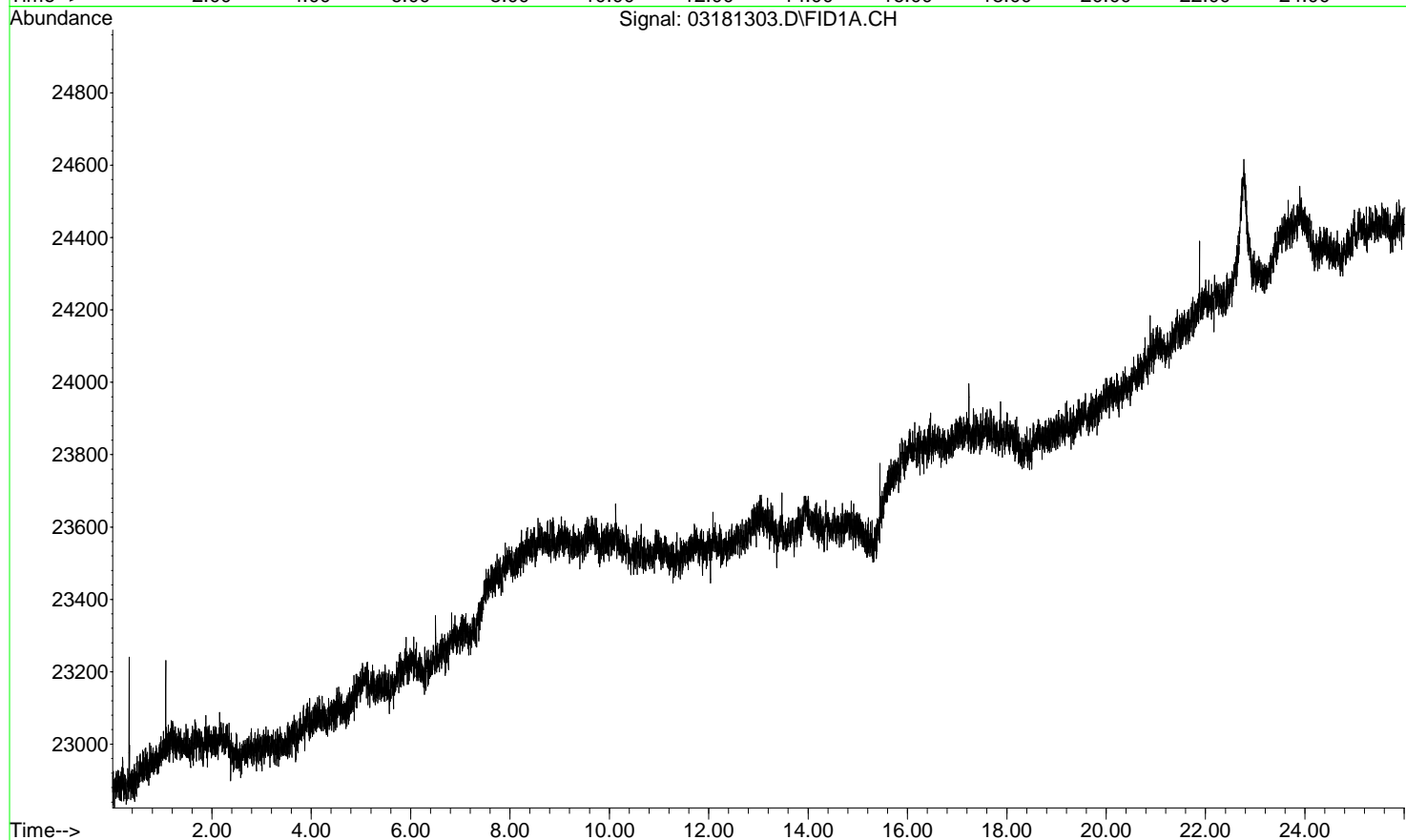
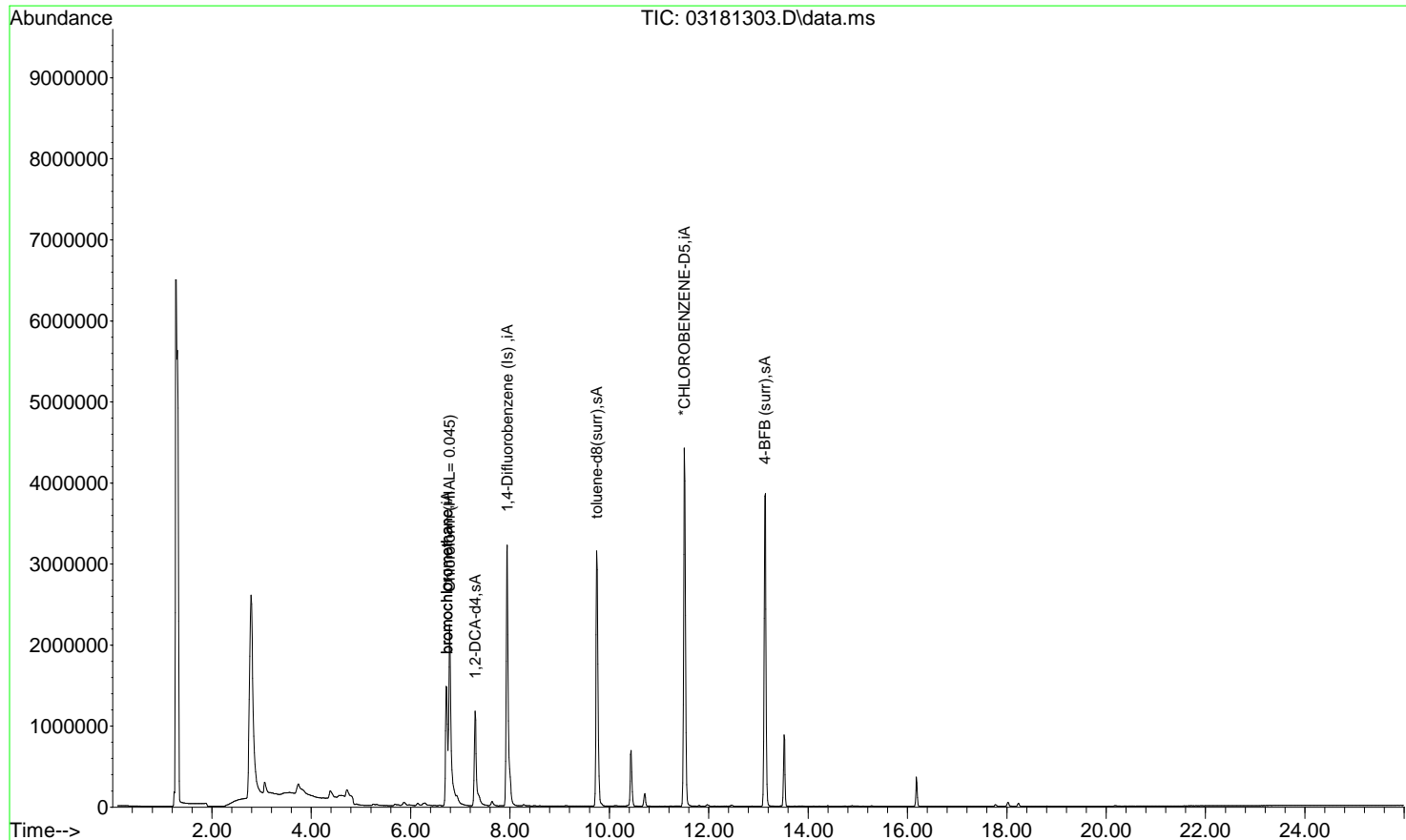
Quant Time: Apr 05 16:31:26 2013  
 Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
 Quant Title : 8240 calibration table  
 QLast Update : Fri Apr 05 15:53:14 2013  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) bromochloromethane	6.727	130	1014276	50.00	nL	-0.05	
39) 1,4-Difluorobenzene (Is)	7.946	114	4225909	50.00	nL	-0.02	
56) *CHLOROBENZENE-D5	11.511	117	3858340	50.00	nL	-0.05	
76) bromochloromethane	6.727	130	1009386	50.00	nL	0.06	
System Monitoring Compounds							
22) 1,2-DCA-d4	7.297	65	984288	97.28	nL	-0.05	
47) toluene-d8(surr)	9.745	98	3148343	92.12	nL	-0.03	
65) 4-BFB (surr)	13.128	95	2165033	89.09	nL	-0.05	
Target Compounds							
29) Chloroform (HIAL= 0.045)	6.784	83	2554137	5.71	nL		Qvalue 95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : D:\HPCHEM\GC24\DATA\  
Data File : 03181303.D  
Acq On : 18 Mar 2013 11:24 am  
Operator :  
Sample : 1303408-003A ppmv 20ml chloroform only (Sig #1); 1303408-003A ppmv 20ml (Sig #2)  
Misc : TO15\_SOILGAS  
ALS Vial : 6 Sample Multiplier: 1

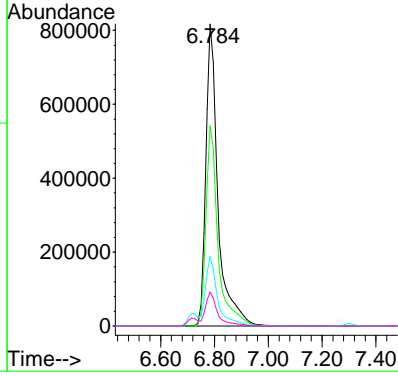
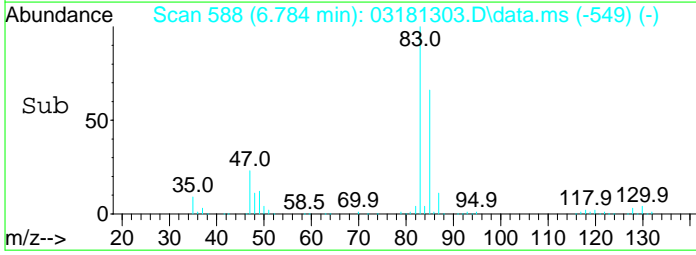
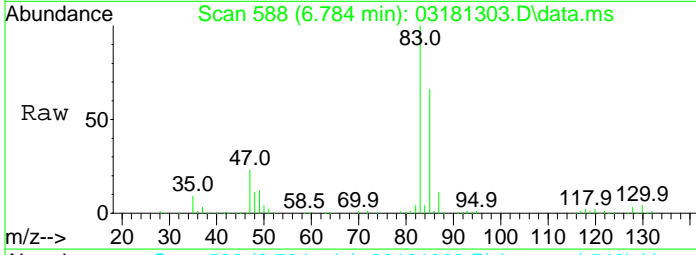
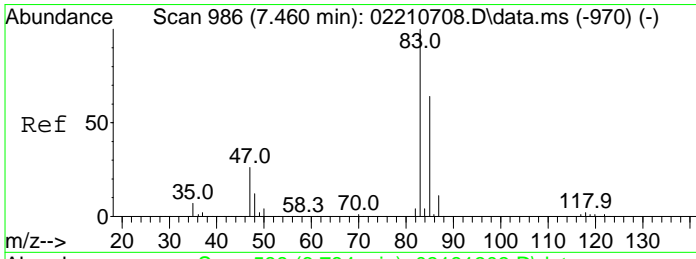
Quant Time: Apr 05 16:31:26 2013  
Quant Method : D:\HPCHEM\GC24\METHODS\TO15DWW.M  
Quant Title : 8240 calibration table  
QLast Update : Fri Apr 05 15:53:14 2013  
Response via : Initial Calibration



#29  
 Chloroform (HIAL= 0.045)  
 Concen: 5.71 nL  
 RT: 6.784 min Scan# 588  
 Delta R.T. -0.057 min  
 Lab File: 03181303.D  
 Acq: 18 Mar 2013 11:24 am

Tgt Ion: 83 Resp: 2554137

Ion	Ratio	Lower	Upper
83	100		
85	66.3	51.5	77.3
47	23.0	22.5	33.7
48	11.2	10.8	16.2



**LEVEL-IV VALIDATABLE**  
 TO15DWW.M  
 INTERNAL STANDARD AREA and RT SUMMARY

Lab Name: McCampbell Analytical, Inc.  
 Lab File ID:  
 Instrument ID: GC-24  
 WorkOrder:  
 Date Analyzed: 03/18/2013  
 Time Analyzed: 10:04 AM

	Bromochloromethane				1,4-Difluorobenzene				Chlorobenzene -d5				Bromochloromethane			
	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
ICAL IS's AVG AREA and RT	1040692		6.752273		4159281		7.955182		3891817		11.547		753625		6.7612	
UPPER LIMIT	2081384		7.252273		8318562		8.455182		7783634		12.047		1507250		7.2612	
LOWER LIMIT	520346		6.252273		2079640.5		7.455182		1945908.5		11.047		376812.5		6.2612	
CLIENT SAMPLE NO																
1 CCV	1040208		6.716		4149496		7.912		3895922		11.499		1040208		6.716	
2 1303408-003A DF50	1014276		6.727		4225909		7.946		3858340		11.511		1009386		6.727	
3 1303408-003A DF50	1014276		6.727		4225909		7.946		3858340		11.511		1009386		6.727	
4 1303408-003A DF50	1014276		6.727		4225909		7.946		3858340		11.511		1009386		6.727	
5 1303408-004A DF50	1036166		6.716		4268650		7.934		3951498		11.511		1031955		6.716	
6 1303408-004A DF50	1036166		6.716		4268650		7.934		3951498		11.511		1031955		6.716	
7 1303408-004A DF50	1036166		6.716		4268650		7.934		3951498		11.511		1031955		6.716	
8 1303287-003A	1022910		6.716		4061085		7.912		3829861		11.499		1022228		6.716	
9 1303287-003A	1022910		6.716		4061085		7.912		3829861		11.499		1022228		6.716	
10 1303287-003A	1022910		6.716		4061085		7.912		3829861		11.499		1022228		6.716	
11 1303287-004A	793051		6.727		3966162		7.912		3722823		11.499		793051		6.727	
12 1303287-004A	793051		6.727		3966162		7.912		3722823		11.499		793051		6.727	
13 1303287-004A	793051		6.727		3966162		7.912		3722823		11.499		793051		6.727	
14 1303287-005A	969878		6.727		4050102		7.934		3818087		11.499		969878		6.727	
15 1303287-005A	969878		6.727		4050102		7.934		3818087		11.499		969878		6.727	
16 1303287-005A	969878		6.727		4050102		7.934		3818087		11.499		969878		6.727	
17 1303287-006A	1003921		6.704		4156165		7.912		3872483		11.499		1003921		6.704	
18 1303287-006A	1003921		6.704		4156165		7.912		3872483		11.499		1003921		6.704	
19 1303287-006A	1003921		6.704		4156165		7.912		3872483		11.499		1003921		6.704	

Area Upper Limit = +100% of internal standard area  
Area Lower Limit = -50% of internal standard area  
RT Upper Limit = +0.50 of internal standard RT  
RT Lower Limit = -0.50 of internal standard RT



# McCampbell Analytical, Inc.

# PREP BATCH REPORT

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Prep Start Date: **3/15/2013 8:00:00 AM**

Prep End Date: **3/22/2013 8:33:52 AM**

Prep Batch ID: **75598**

Prep Code: **PRT015 AIR**

Technician: **ADMIN**

Prep Factor Units: **mL / mL**

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
MB-75598			1000	0	0	1000	1.000	3/15/2013	3/22/2013
LCS-75598			200	0	0	200	1.000	3/15/2013	3/22/2013
1303408-001A	Air		1000	0	0	1000	1.000	3/15/2013	3/22/2013
1303408-002A	Air		1000	0	0	1000	1.000	3/15/2013	3/22/2013
1303408-003A	Air		1000	0	0	1000	1.000	3/15/2013	3/22/2013
1303408-004A	Air		1000	0	0	1000	1.000	3/15/2013	3/22/2013
1303287-001A	Soil Gas		1000	0	0	1000	1.000	3/15/2013	3/22/2013
1303287-002A	Soil Gas		1000	0	0	1000	1.000	3/15/2013	3/22/2013
1303287-003A	Soil Gas		1000	0	0	1000	1.000	3/15/2013	3/22/2013
1303287-004A	Soil Gas		1000	0	0	1000	1.000	3/15/2013	3/22/2013
1303287-005A	Soil Gas		1000	0	0	1000	1.000	3/15/2013	3/22/2013
1303287-006A	Soil Gas		1000	0	0	1000	1.000	3/15/2013	3/22/2013
1303287-007A	Soil Gas		1000	0	0	1000	1.000	3/15/2013	3/22/2013
1303287-008A	Soil Gas		1000	0	0	1000	1.000	3/15/2013	3/22/2013
1303287-009A	Soil Gas		1000	0	0	1000	1.000	3/15/2013	3/22/2013