LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV121918\
Data File : VV009052.D
Acq On : 19 Dec 2018 15:53
Operator : SY/MD
Sample : J6441-02
Misc : 5.61G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : BE7Z9

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Title : VOC Analysis

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.113	3	7	18	rVB2	11818	11465	0.50%	0.039%
2	1.203	30	35	46	rVB	21100	20382	0.88%	0.069%
3	1.315	60	70	80	rBV	95479	101569	4.41%	0.343%
4	1.389	86	93	104	rBV	12507	14883	0.65%	0.050%
5	1.576	144	151	161	rVB	101719	115049	4.99%	0.389%
6	1.766	205	210	220	rVV5	3225	4207	0.18%	0.014%
7	1.817	222	226	238	rVB4	3154	4466	0.19%	0.015%
8	2.052	293	299	306	rVB4	2735	3596	0.16%	0.012%
9	2.126	310	322	334	rVV	252665	378254	16.42%	1.278%
10	2.193	334	343	370	rVB	33899	69165	3.00%	0.234%
11	2.315	370	381	395	rBV	41611	64244	2.79%	0.217%
12	2.534	438	449	463	rBV	46011	74913	3.25%	0.253%
13	2.991	580	591	604	rVV3	3167	6557	0.28%	0.022%
14	3.074	608	617	630	rVV6	3393	6854	0.30%	0.023%
15	3.749	817	827	846	rVV6	3973	11196	0.49%	0.038%
16	3.939	872	886	907	rBV4	22206	75410	3.27%	0.255%
17	4.425	1012	1037	1060	rBV2	120915	342565	14.87%	1.157%
18	4.727	1115	1131	1150	rVV2	53368	128821	5.59%	0.435%
19	5.097	1227	1246	1252	rBV2	317510	763079	33.13%	2.578%
20	5.148	1253	1262	1294	rVB	1076115	2303556	100.00%	7.782%
21	5.531	1373	1381	1382	rBV4	3234	2866	0.12%	0.010%
22	5.662	1407	1422	1446	rBV	249614	495909	21.53%	1.675%
23	5.945	1496	1510	1529	rVV	162649	330426	14.34%	1.116%
24	6.116	1546	1563	1579	rBV2	183083	375219	16.29%	1.268%
25	6.334	1617	1631	1646	rVV5	3878	8908	0.39%	0.030%
26	6.502	1679	1683	1689	rVV3	942	959	0.04%	0.003%
27	6.685	1729	1740	1742	rBV5	1082	1760	0.08%	0.006%
28	6.884	1795	1802	1810	rBV5	1043	1766	0.08%	0.006%
29	6.958	1817	1825	1833	rBV5	4339	7529	0.33%	0.025%
30	7.029	1836	1847	1862	rVB2	51545	90636	3.93%	0.306%
31	7.122	1868	1876	1896	rVB3	5682	12165	0.53%	0.041%
32	7.305	1918	1933	1939	rBV2	19797	35918	1.56%	0.121%
33	7.360	1939	1950	1964	rVV	360856	624113	27.09%	2.108%
34	7.431	1965	1972	1982	rVB	21910	35859	1.56%	0.121%

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV121918\
Data File : VV009052.D
Acq On : 19 Dec 2018 15:53
Operator : SY/MD
Sample : J6441-02
Misc : 5.61G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : BE7Z9

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Title : VOC Analysis

35	7.608	2019	2027	2036	rBV2	13375	21604	0.94%	0.073%
36	7.666	2036	2045	2051	rBV2	33029	56886	2.47%	0.192%
37	7.830	2082	2096	2108	rBV2	13325	24021	1.04%	0.081%
38	7.887	2108	2114	2121	rBV6	2125	3496	0.15%	0.012%
39	8.019	2147	2155	2164	rVB6	13247	22342	0.97%	0.075%
40	8.135	2171	2191	2217	rBV4	78271	205781	8.93%	0.695%
41	8.277	2218	2235	2243	rBV5	34052	90521	3.93%	0.306%
42	8.334	2244	2253	2262	rVB	81224	131093	5.69%	0.443%
43	8.395	2262	2272	2281	rBV	77792	135951	5.90%	0.459%
44	8.550	2311	2320	2329	rBV4	14530	24517	1.06%	0.083%
45	8.637	2329	2347	2360	rBV4	76934	209485	9.09%	0.708%
46	8.707	2361	2369	2381	rVB2	85794	146275	6.35%	0.494%
47	8.768	2381	2388	2395	rVB5	5042	6986	0.30%	0.024%
48	8.830	2395	2407	2417	rBV	82029	139241	6.04%	0.470%
49	8.897	2417	2428	2445	rBV	304949	553556	24.03%	1.870%
50	9.055	2463	2477	2487	rBV	160422	302543	13.13%	1.022%
51	9.151	2500	2507	2511	rBV4	55486	85107	3.69%	0.287%
52	9.244	2529	2536	2560	rVB2	231203	421880	18.31%	1.425%
53	9.363	2560	2573	2584	rBV2	69668	123739	5.37%	0.418%
54	9.453	2594	2601	2604	rBV2	12653	16433	0.71%	0.056%
55	9.518	2606	2621	2635	rVV3	229187	585294	25.41%	1.977%
56	9.588	2637	2643	2663	rVB3	208290	420223	18.24%	1.420%
57	9.723	2676	2685	2686	rBV2	89182	110568	4.80%	0.374%
58	9.752	2688	2694	2704	rVB2	331428	495284	21.50%	1.673%
59	9.842	2714	2722	2732	rBV3	360689	605944	26.30%	2.047%
60	10.399	2886	2895	2903	rBV	274266	445529	19.34%	1.505%
61	10.514	2918	2931	2938	rBV2	249422	541447	23.50%	1.829%
62	10.781	3004	3014	3032	rVB	1133482	1912468	83.02%	6.460%
63	10.919	3051	3057	3061	rBV3	100456	149378	6.48%	0.505%
64	10.961	3062	3070	3093	rVB	1122883	1909104	82.88%	6.449%
65	11.199	3137	3144	3151	rBV3	154394	224052	9.73%	0.757%
66	11.292	3164	3173	3183	rBV3	381219	613815	26.65%	2.074%
67	11.382	3192	3201	3222	rVB	1225020	1903600	82.64%	6.431%
68	11.501	3233	3238	3251	rVB2	148274	237682	10.32%	0.803%
69	11.591	3252	3266	3279	rVV3	410353	1062534	46.13%	3.589%
70	11.675	3281	3292	3311	rVB6	569271	1471543	63.88%	4.971%
71	11.791	3320	3328	3336	rBV	144983	236563	10.27%	0.799%

LSC Area Percent Report

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Data File : VV009052.D
Acq On : 19 Dec 2018 15:53
Operator : SY/MD
Sample : J6441-02
Misc : 5.61G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : BE7Z9

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Title : VOC Analysis

72	11.868	3345	3352	3370	rVB	506065	766492	33.27%	2.589%
73	11.958	3371	3380	3385	rBV	256314	391688	17.00%	1.323%
74	12.064	3404	3413	3420	rBV	693399	1038805	45.10%	3.509%
75	12.167	3435	3445	3447	rBV	218214	296792	12.88%	1.003%
76	12.296	3475	3485	3494	rBV6	110107	243815	10.58%	0.824%
77	12.360	3495	3505	3516	rVB3	218581	431043	18.71%	1.456%
78	12.431	3516	3527	3529	rBV5	107556	153422	6.66%	0.518%
79	12.460	3530	3536	3545	rVV	391289	575416	24.98%	1.944%
80	12.514	3545	3553	3569	rVB2	220087	372088	16.15%	1.257%
81	12.598	3569	3579	3588	rBV3	132396	212286	9.22%	0.717%
82	12.691	3602	3608	3615	rBV	57988	80779	3.51%	0.273%
83	12.842	3649	3655	3662	rVB2	37759	47660	2.07%	0.161%
84	12.929	3664	3682	3693	rBV2	445781	827240	35.91%	2.794%
85	13.048	3712	3719	3726	rBV	68403	99791	4.33%	0.337%
86	13.096	3727	3734	3760	rVB2	100062	213044	9.25%	0.720%
87	13.215	3763	3771	3778	rBV7	25550	41566	1.80%	0.140%
88	13.318	3793	3803	3811	rBV3	92156	152430	6.62%	0.515%
89	13.553	3860	3876	3886	rBV	868276	1345408	58.41%	4.545%
90	13.775	3934	3945	3952	rBV5	12442	27487	1.19%	0.093%
91	14.148	4050	4061	4073	rBV6	18749	42072	1.83%	0.142%
92	14.283	4098	4103	4114	rVB3	9229	13315	0.58%	0.045%
93	14.823	4262	4271	4278	rBV3	5460	11271	0.49%	0.038%
94	14.871	4279	4286	4299	rVB3	13200	26509	1.15%	0.090%
95	15.714	4539	4548	4550	rBV7	3644	4516	0.20%	0.015%
96	15.868	4589	4596	4603	rBV9	4787	6732	0.29%	0.023%
97	15.906	4604	4608	4616	rVB8	2749	4261	0.18%	0.014%
98	15.984	4622	4632	4633	rBV7	3427	4156	0.18%	0.014%
99	16.225	4704	4707	4710	rBV5	990	829	0.04%	0.003%
100	16.292	4726	4728	4734	rBV3	815	880	0.04%	0.003%

Sum of corrected areas: 29602542

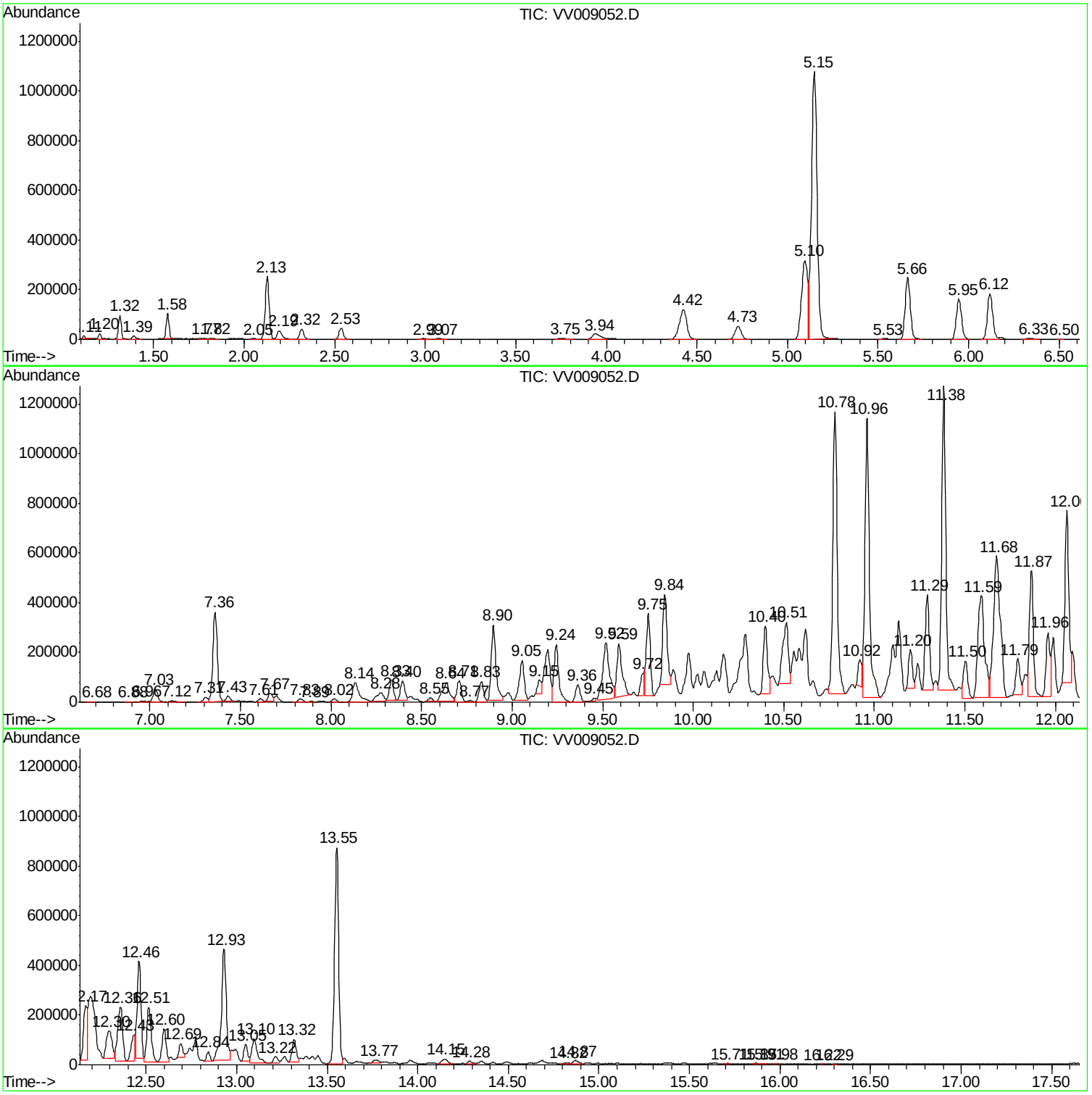
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV121918\
Data File : VV009052.D
Acq On : 19 Dec 2018 15:53
Operator : SY/MD
Sample : J6441-02
Misc : 5.61G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
BE7Z9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV121918\
Data File : VV009052.D
Acq On : 19 Dec 2018 15:53
Operator : SY/MD
Sample : J6441-02
Misc : 5.61G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : BE7Z9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis

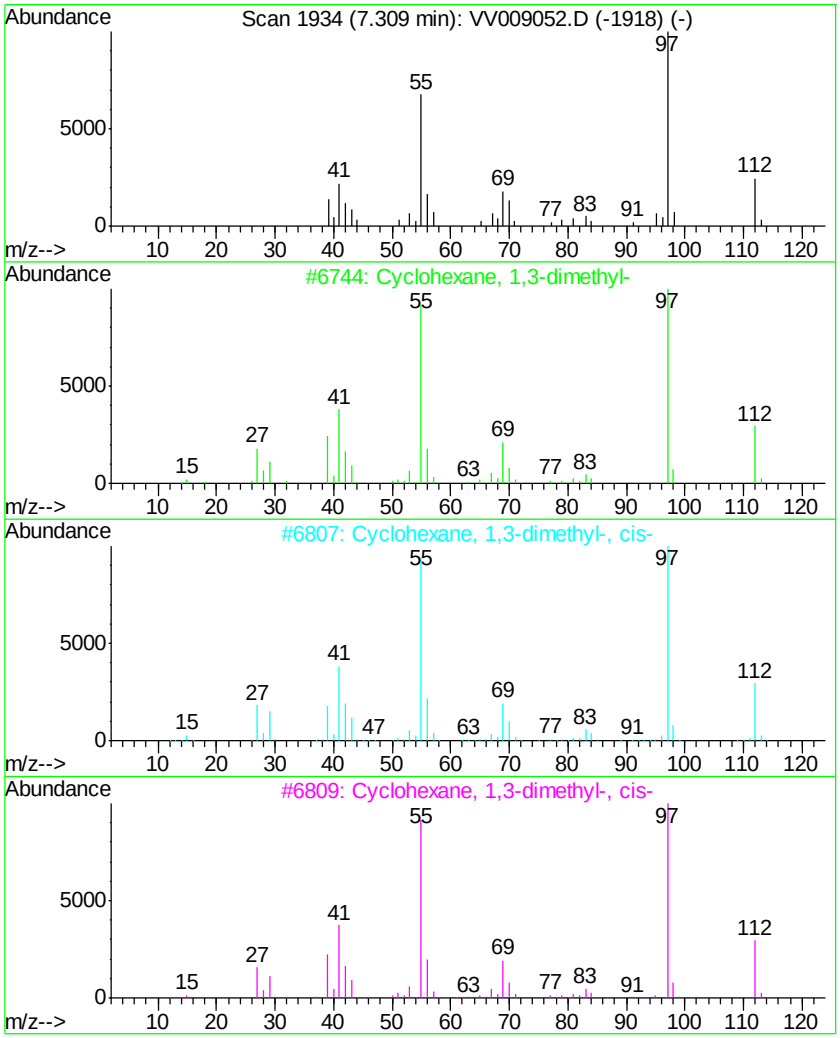
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

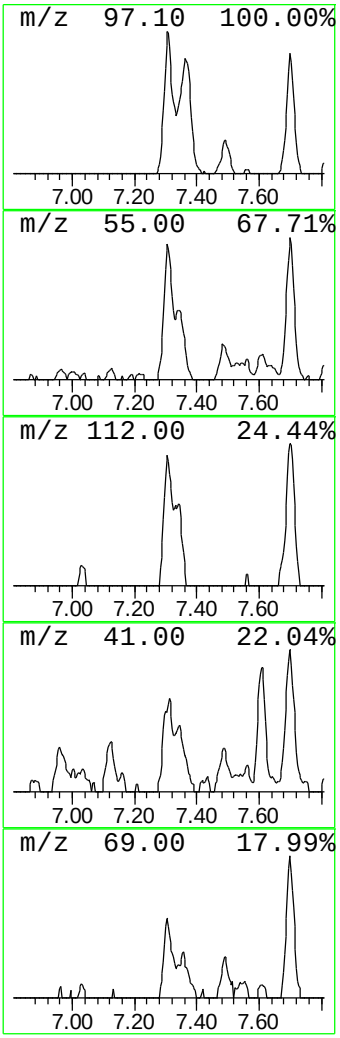
****

Peak Number 2 (DEL) Alkane: Cyclic7.31 Concentration Rank 43

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.31	1.62 ug/L	35918	Chlorobenzene-d5	8.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-	112	C8H16	000591-21-9	93
2	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	91
3	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	90
4	Cyclohexane, 1,4-dimethyl-, trans-	112	C8H16	002207-04-7	87
5	Cyclohexane, 1,4-dimethyl-, cis-	112	C8H16	000624-29-3	87





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV121918\
Data File : VV009052.D
Acq On : 19 Dec 2018 15:53
Operator : SY/MD
Sample : J6441-02
Misc : 5.61G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : BE7Z9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis

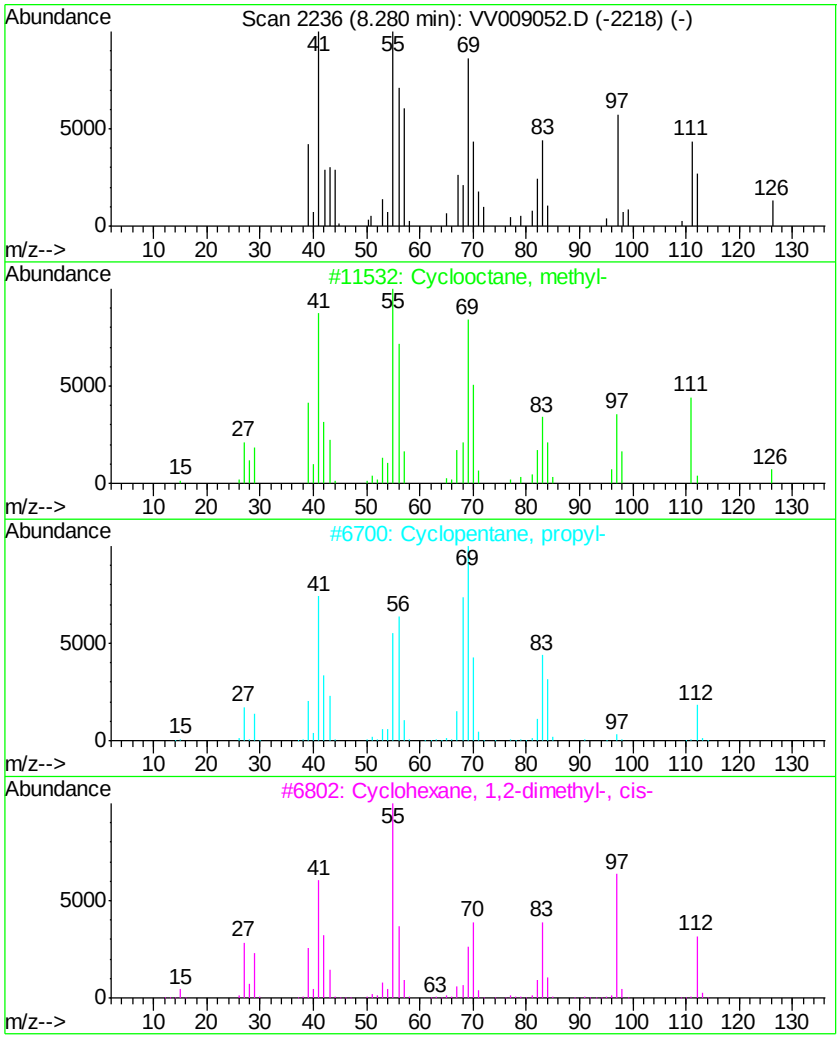
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

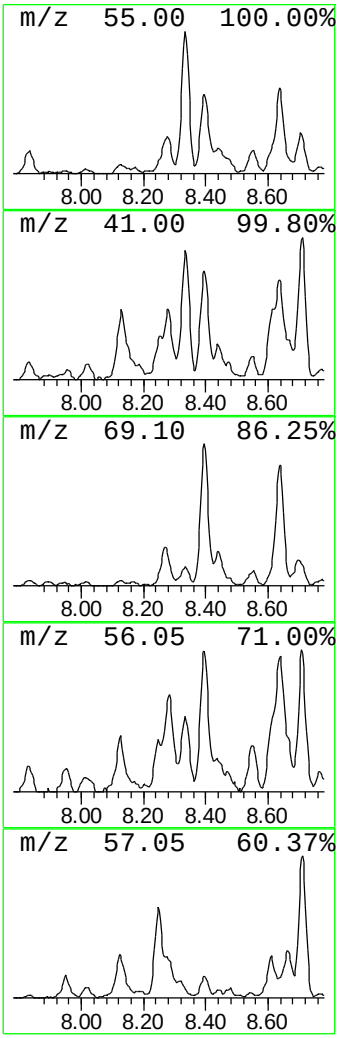
****

Peak Number 3 (DEL) Alkane: Cyclic8.28 Concentration Rank 37

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.28	4.09 ug/L	90521	Chlorobenzene-d5	8.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclooctane, methyl-	126	C9H18	001502-38-1	72
2	Cyclopentane, propyl-	112	C8H16	002040-96-2	52
3	Cyclohexane, 1,2-dimethyl-, cis-	112	C8H16	002207-01-4	50
4	Cyclohexane, 1,2-dimethyl-, cis-	112	C8H16	002207-01-4	50
5	1H-Imidazole, 2-ethyl-4,5-dihydr...	112	C6H12N2	000931-35-1	49





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV121918\
Data File : VV009052.D
Acq On : 19 Dec 2018 15:53
Operator : SY/MD
Sample : J6441-02
Misc : 5.61G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : BE7Z9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis

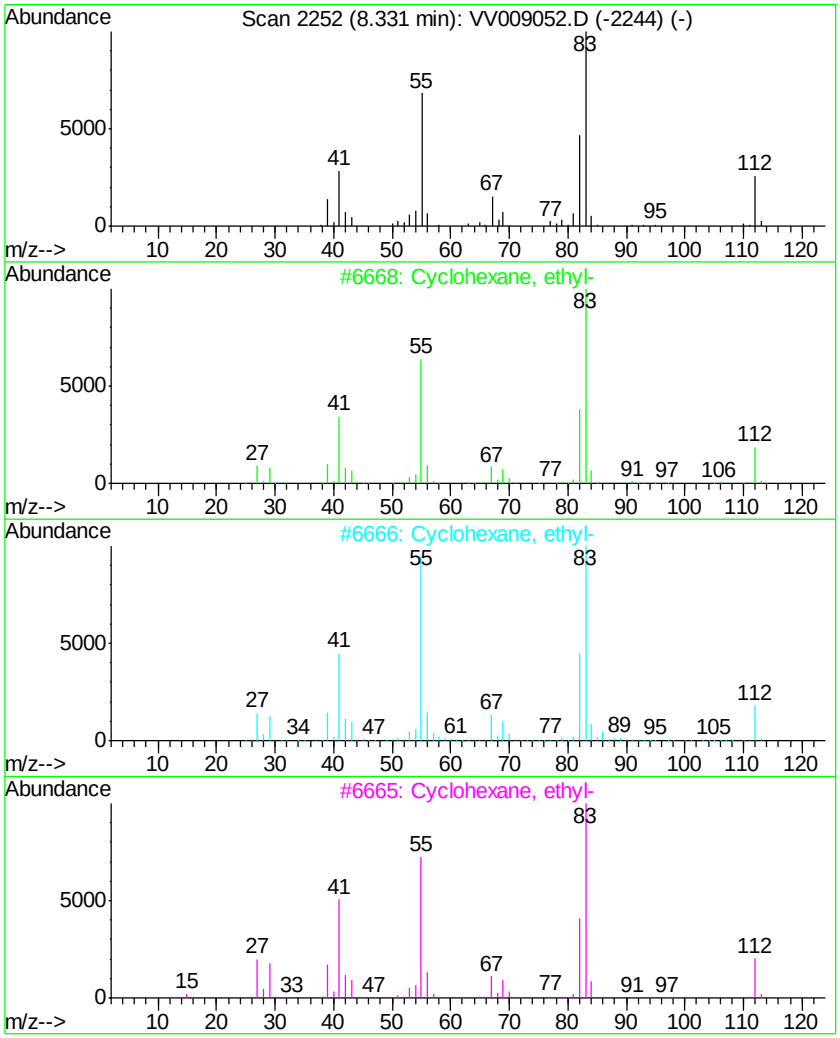
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

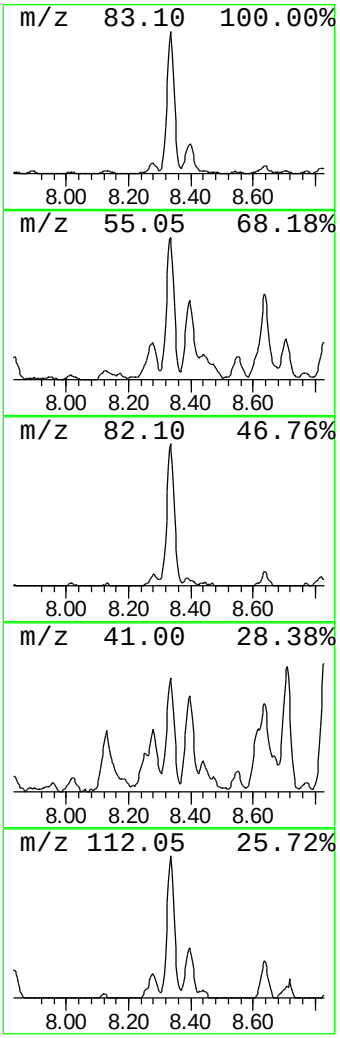
****

Peak Number 4 (DEL) Alkane: Cyclic8.33 Concentration Rank 33

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.33	5.92 ug/L	131093	Chlorobenzene-d5	8.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, ethyl-	112	C8H16	001678-91-7	86
2	Cyclohexane, ethyl-	112	C8H16	001678-91-7	78
3	Cyclohexane, ethyl-	112	C8H16	001678-91-7	78
4	Cyclohexane, ethyl-	112	C8H16	001678-91-7	78
5	3-Heptene, 5-methyl-	112	C8H16	013172-91-3	58





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV121918\
Data File : VV009052.D
Acq On : 19 Dec 2018 15:53
Operator : SY/MD
Sample : J6441-02
Misc : 5.61G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : BE7Z9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis

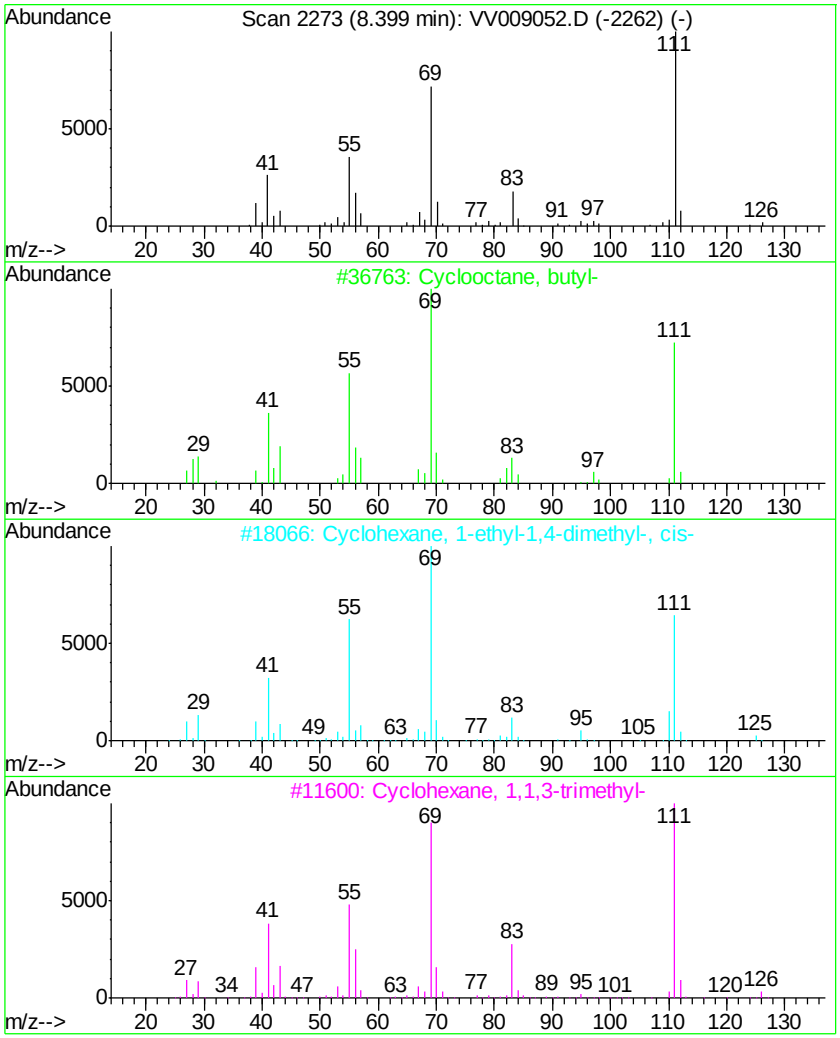
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

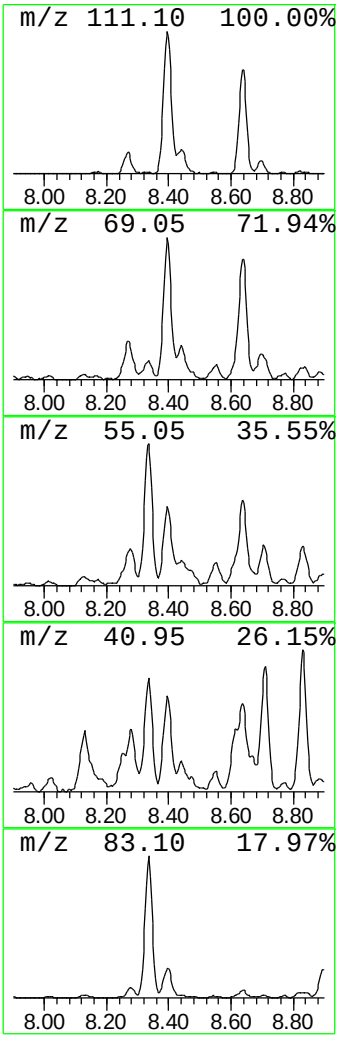
****

Peak Number 5 (DEL) Alkane: Cyclic8.40 Concentration Rank 31

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.40	6.14 ug/L	135951	Chlorobenzene-d5	8.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclooctane, butyl-	168	C12H24	016538-93-5	83
2	Cyclohexane, 1-ethyl-1,4-dimethy...	140	C10H20	062238-30-6	72
3	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	70
4	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	64
5	Cyclohexane, 1,3,5-trimethyl-, (...	126	C9H18	001795-27-3	64





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV121918\
Data File : VV009052.D
Acq On : 19 Dec 2018 15:53
Operator : SY/MD
Sample : J6441-02
Misc : 5.61G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : BE7Z9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis

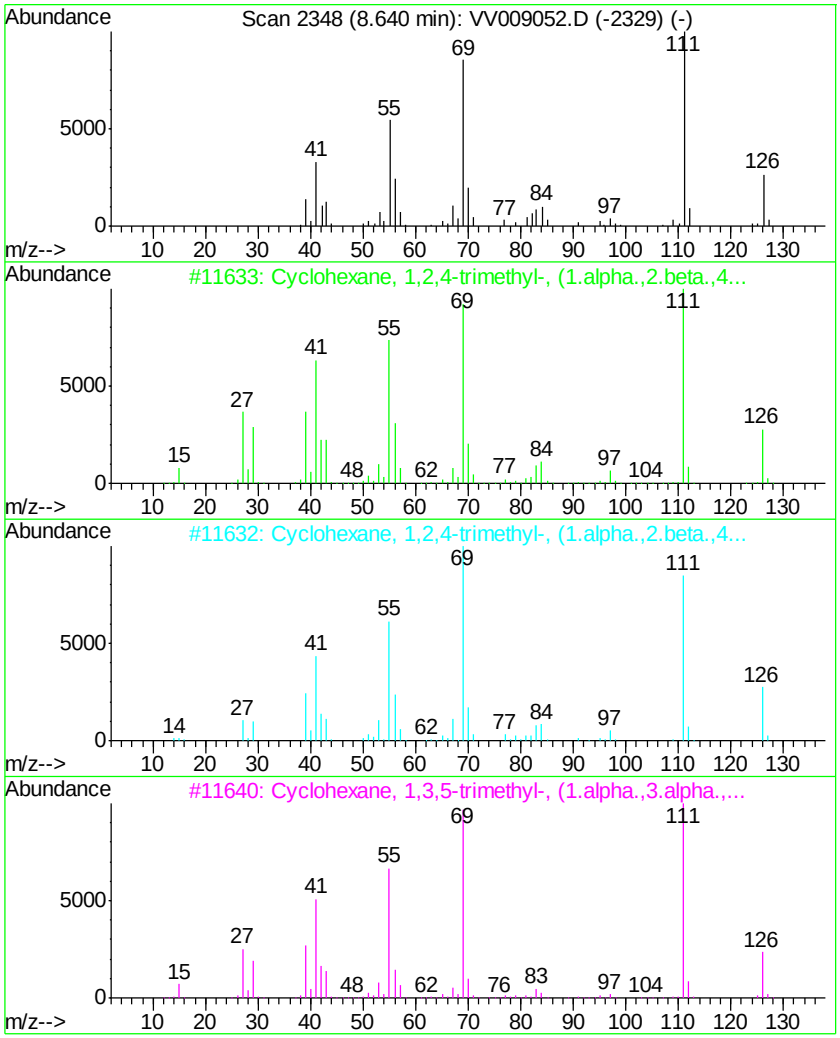
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

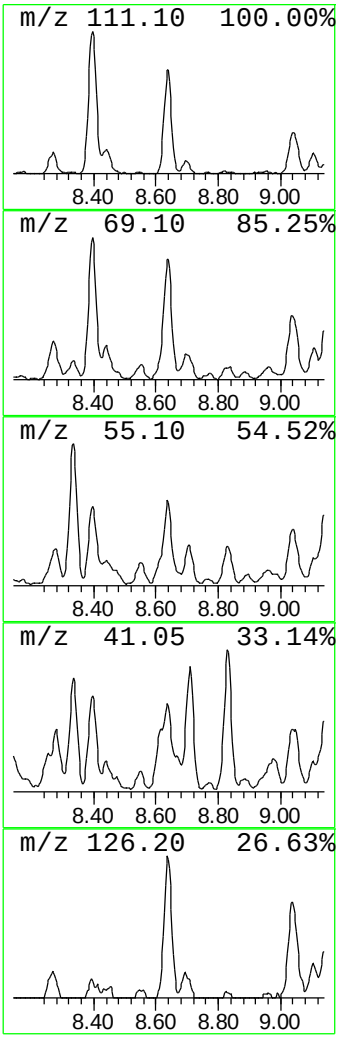
****

Peak Number 6 (DEL) Alkane: Cyclic8.64 Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.64	9.46 ug/L	209485	Chlorobenzene-d5	8.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2,4-trimethyl-, (...	126	C9H18	007667-60-9	91
2	Cyclohexane, 1,2,4-trimethyl-, (...	126	C9H18	007667-60-9	90
3	Cyclohexane, 1,3,5-trimethyl-, (...	126	C9H18	001795-27-3	87
4	Cyclohexane, 1,3,5-trimethyl-, (...	126	C9H18	001795-26-2	87
5	Cyclohexane, 1,3,5-trimethyl-, (...	126	C9H18	001795-27-3	87





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Acq On : 19 Dec 2018 15:53
Operator : SY/MD
Sample : J6441-02
Misc : 5.61G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : BE7Z9

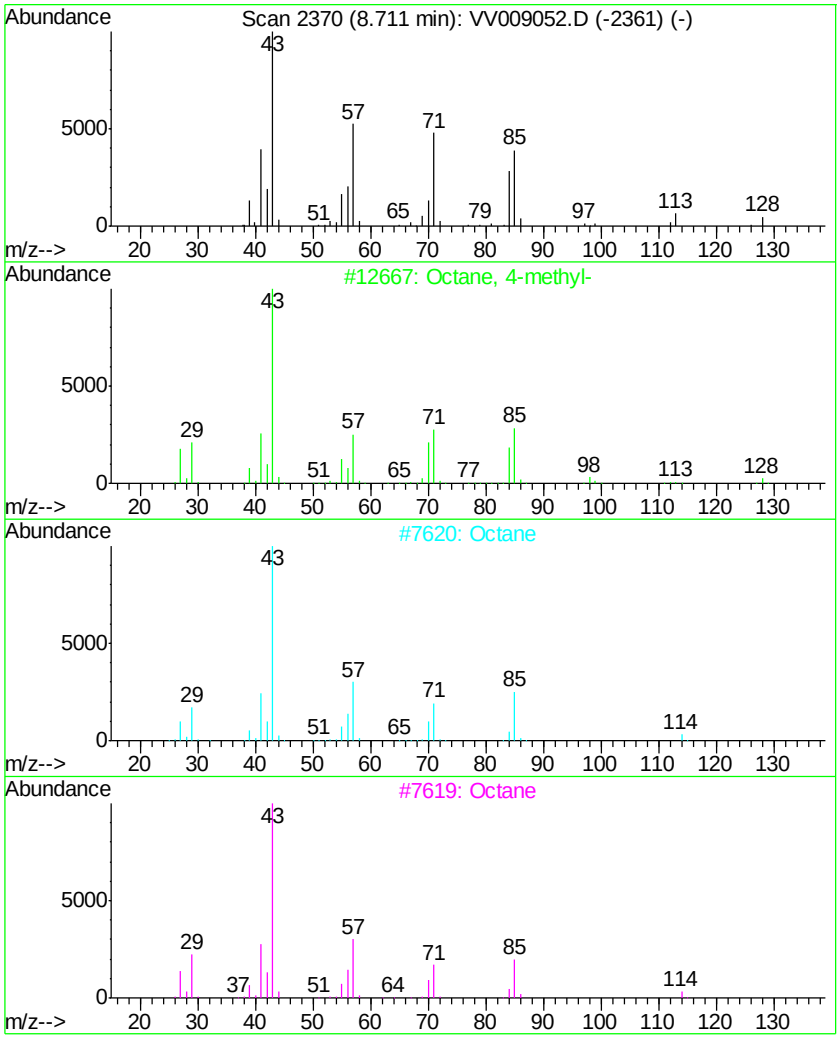
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis

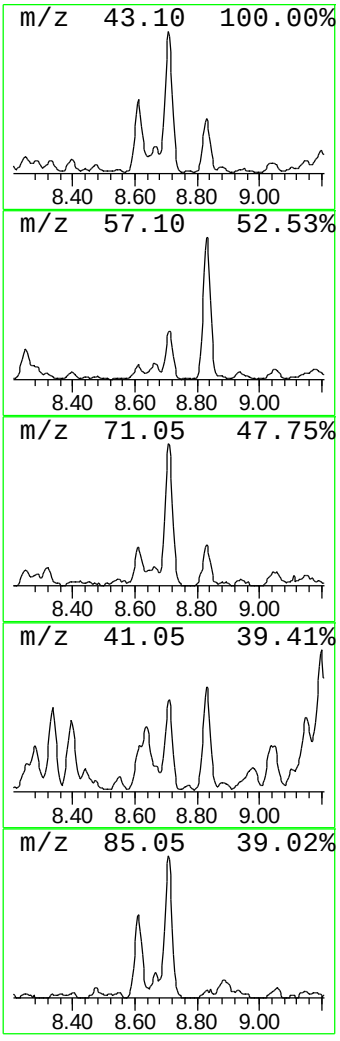
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 (DEL) Alkane: Straight-Chai... Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.71	6.61 ug/L	146275	Chlorobenzene-d5	8.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 4-methyl-	128	C9H20	002216-34-4	64
2	Octane	114	C8H18	000111-65-9	59
3	Octane	114	C8H18	000111-65-9	59
4	Dodecane, 5-methyl-	184	C13H28	017453-93-9	59
5	Hexane, 3,3-dimethyl-	114	C8H18	000563-16-6	59





Library Search Compound Report

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Acq On : 19 Dec 2018 15:53
Operator : SY/MD
Sample : J6441-02
Misc : 5.61G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : BE7Z9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis

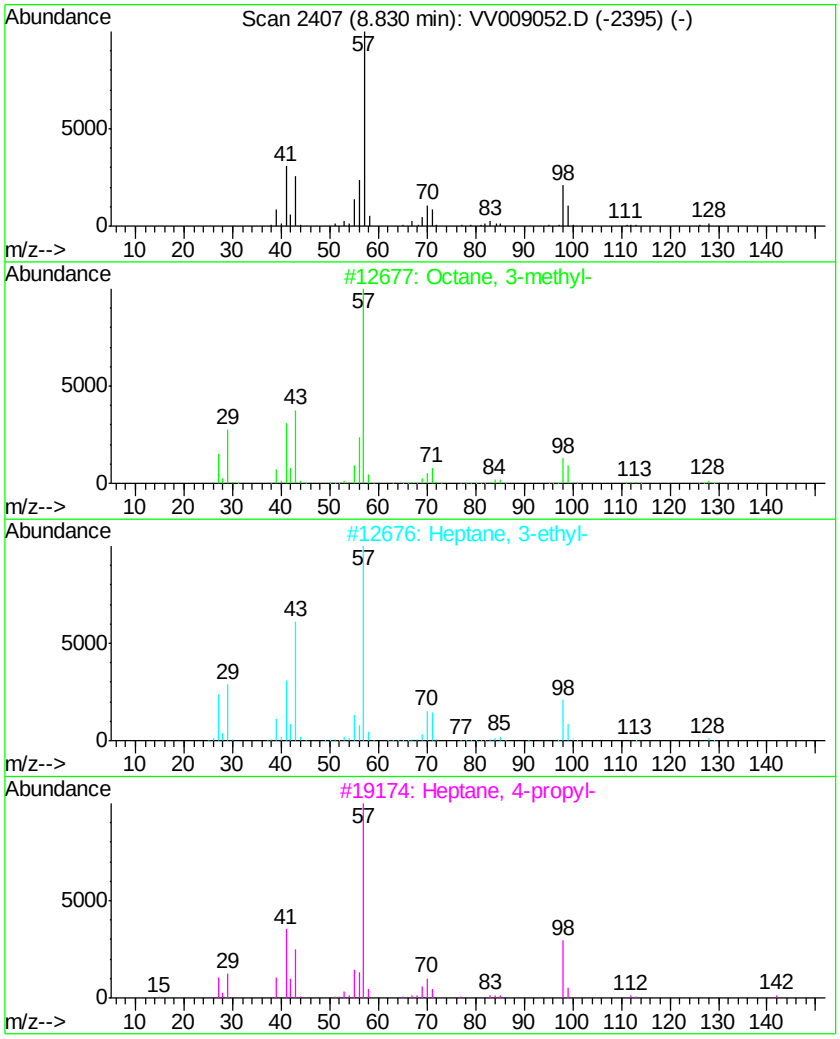
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

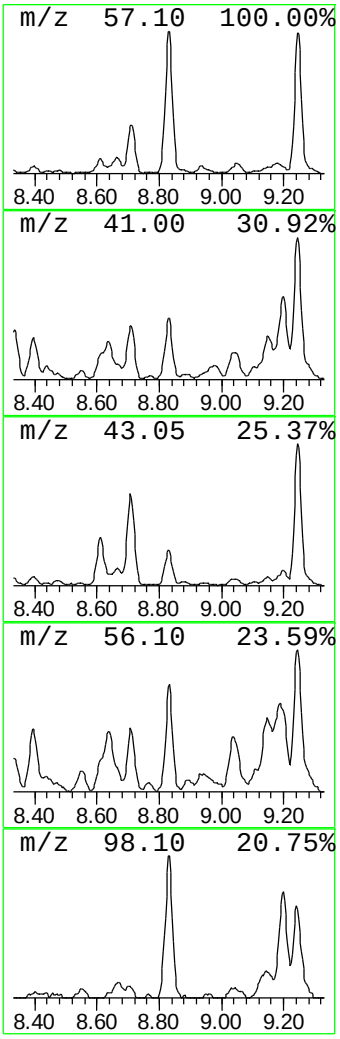
****

Peak Number 8 (DEL) Alkane: Straight-Chai... Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.83	6.29 ug/L	139241	Chlorobenzene-d5	8.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 3-methyl-	128	C9H20	002216-33-3	91
2	Heptane, 3-ethyl-	128	C9H20	015869-80-4	74
3	Heptane, 4-propyl-	142	C10H22	003178-29-8	64
4	Heptane, 3,5-dimethyl-	128	C9H20	000926-82-9	64
5	Heptane, 2,5-dimethyl-	128	C9H20	002216-30-0	59





Library Search Compound Report

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Acq On : 19 Dec 2018 15:53
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Sample : J6441-02
Misc : 5.61G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : BE7Z9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis

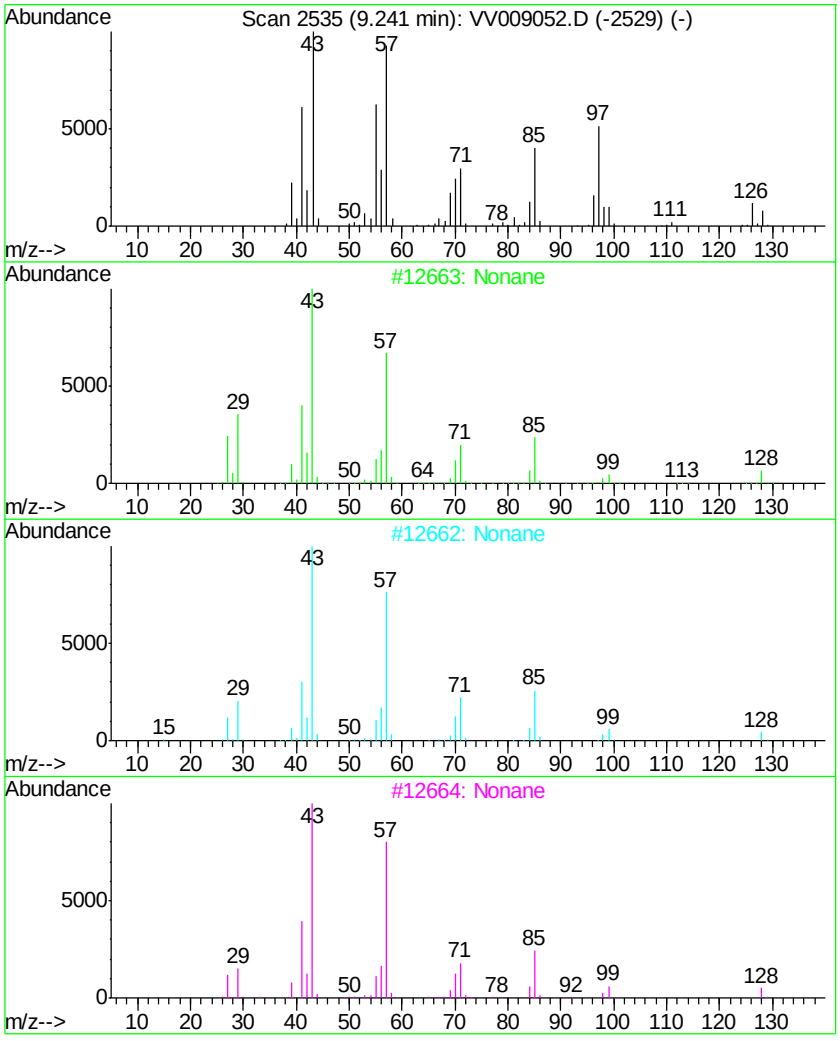
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

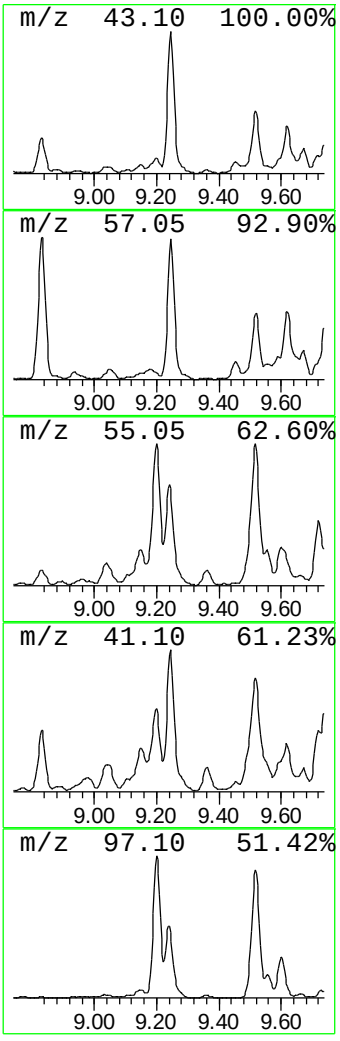
****

Peak Number 9 (DEL) Alkane: Straight-Chai... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.24	19.05 ug/L	421880	Chlorobenzene-d5	8.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonane	128	C9H20	000111-84-2	70
2	Nonane	128	C9H20	000111-84-2	64
3	Nonane	128	C9H20	000111-84-2	58
4	Octane	114	C8H18	000111-65-9	49
5	Octadecane, 1-(ethenyloxy)-	296	C20H40O	000930-02-9	38





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Acq On : 19 Dec 2018 15:53
Operator : SY/MD
Sample : J6441-02
Misc : 5.61G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : BE7Z9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis

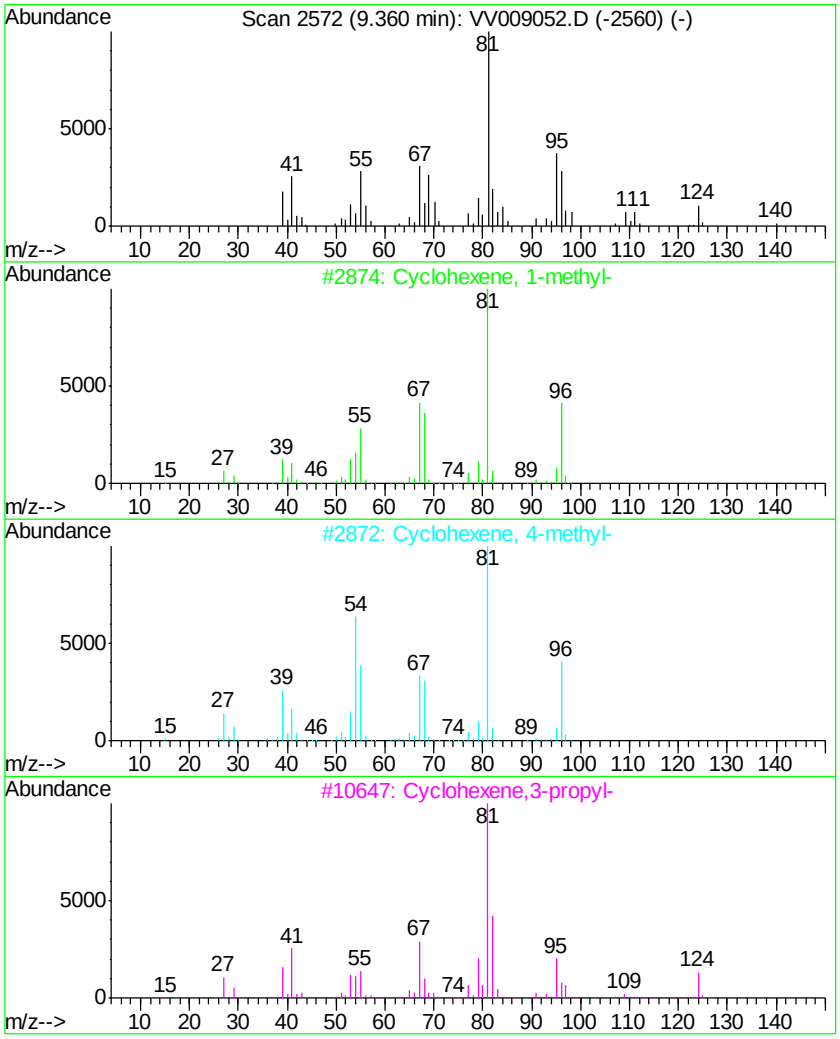
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

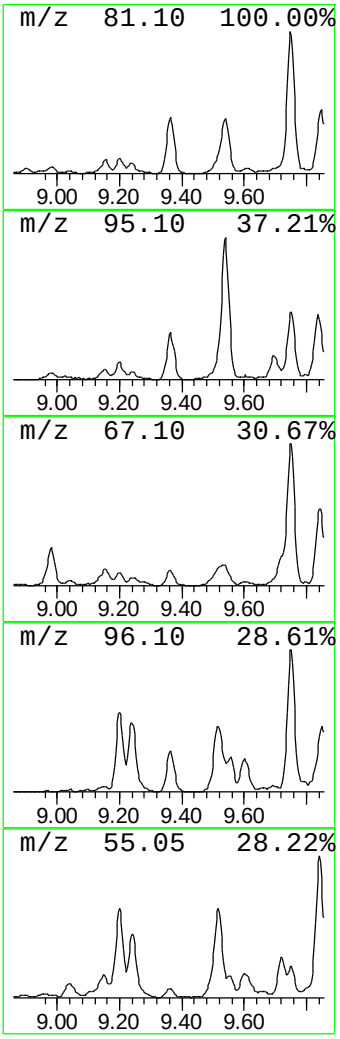
****

Peak Number 10 Cyclohexene, 1-methyl- Concentration Rank 34

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.36	5.59 ug/L	123739	Chlorobenzene-d5	8.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexene, 1-methyl-	96	C7H12	000591-49-1	62
2	Cyclohexene, 4-methyl-	96	C7H12	000591-47-9	58
3	Cyclohexene,3-propyl-	124	C9H16	003983-06-0	58
4	Cyclohexene,3-propyl-	124	C9H16	003983-06-0	58
5	Cyclobutane, (1-methylethylidene)-	96	C7H12	001528-22-9	50





Library Search Compound Report

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Acq On : 19 Dec 2018 15:53
Operator : SY/MD
Sample : J6441-02
Misc : 5.61G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : BE7Z9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis

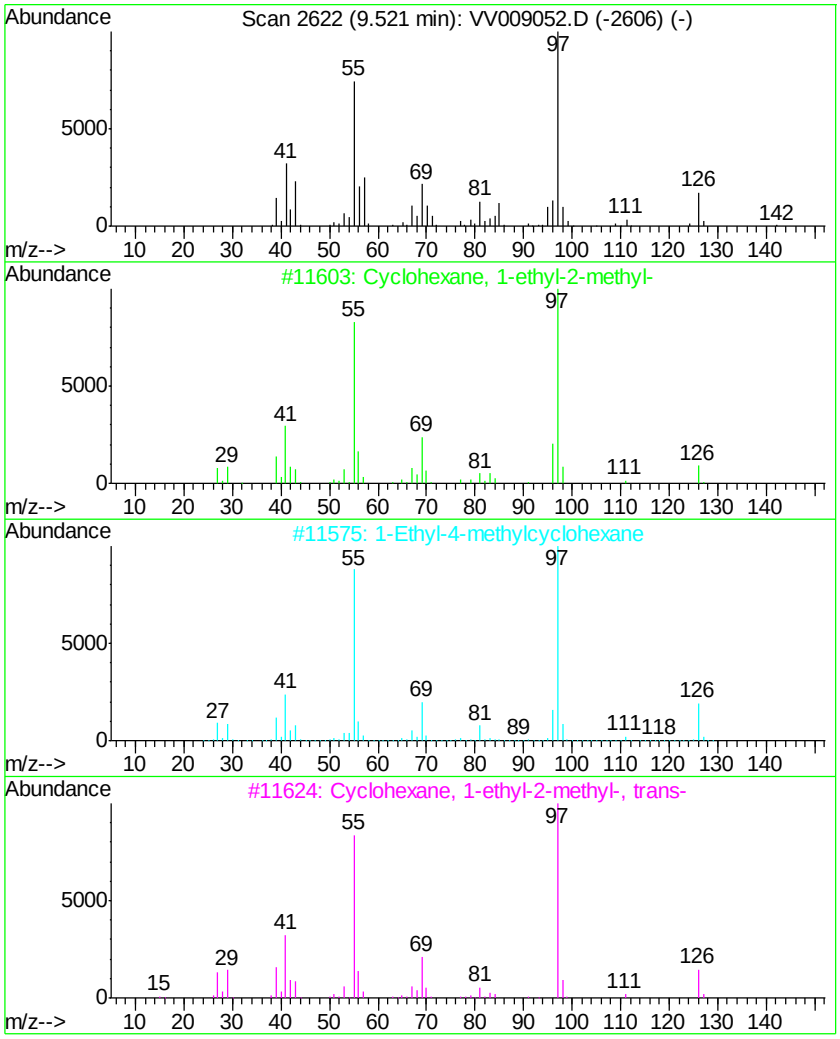
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

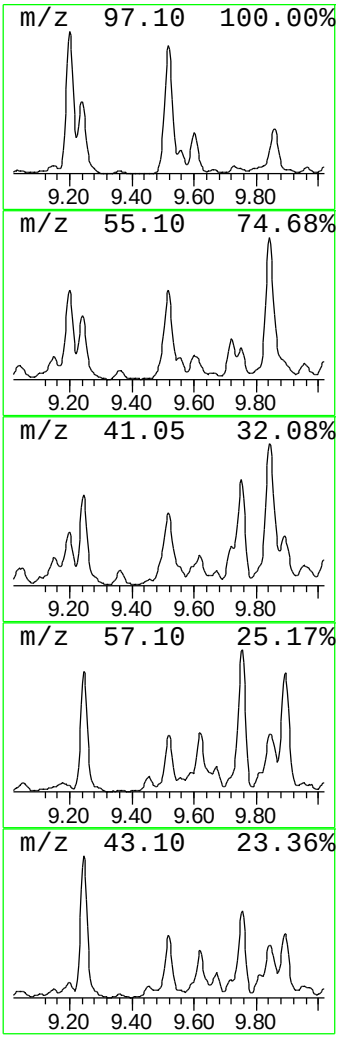
****

Peak Number 11 (DEL) Alkane: Cyclic9.52 Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.52	26.43 ug/L	585294	Chlorobenzene-d5	8.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1-ethyl-2-methyl-	126	C9H18	003728-54-9	87
2	1-Ethyl-4-methylcyclohexane	126	C9H18	003728-56-1	81
3	Cyclohexane, 1-ethyl-2-methyl-, ...	126	C9H18	004923-78-8	76
4	1-Ethyl-3-methylcyclohexane (c,t)	126	C9H18	003728-55-0	74
5	Sulfurous acid, cyclohexylmethyl...	346	C19H38O3S	1000309-22-0	72





Library Search Compound Report

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Operator : SY/MD
Sample : J6441-02
Misc : 5.61G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : BE7Z9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis

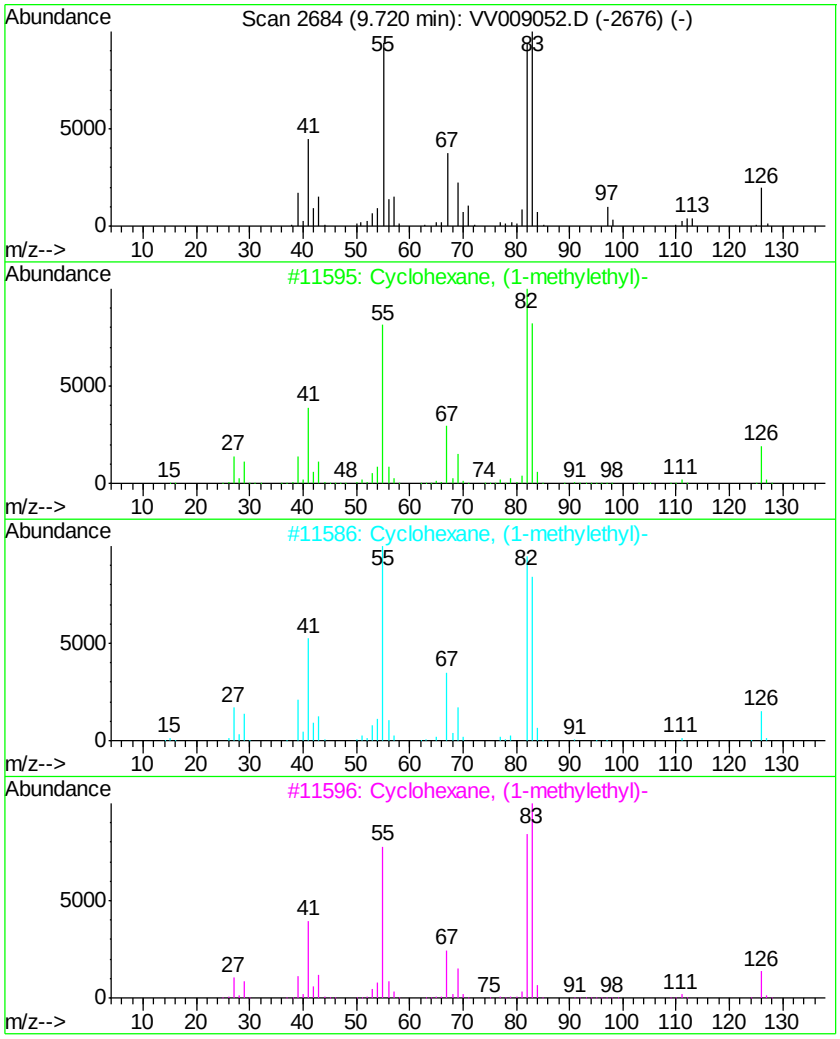
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

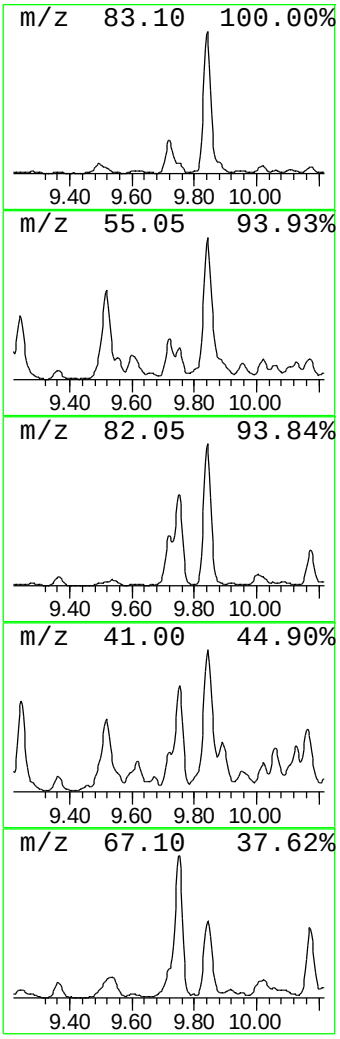
****

Peak Number 12 (DEL) Alkane: Cyclic9.72 Concentration Rank 35

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.72	4.99 ug/L	110568	Chlorobenzene-d5	8.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, (1-methylethyl)-	126	C9H18	000696-29-7	90
2	Cyclohexane, (1-methylethyl)-	126	C9H18	000696-29-7	87
3	Cyclohexane, (1-methylethyl)-	126	C9H18	000696-29-7	81
4	Cyclohexane, (1-methylethyl)-	126	C9H18	000696-29-7	80
5	Cyclohexane, propyl-	126	C9H18	001678-92-8	52





Library Search Compound Report

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Acq On : 19 Dec 2018 15:53
Operator : SY/MD
Sample : J6441-02
Misc : 5.61G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : BE7Z9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis

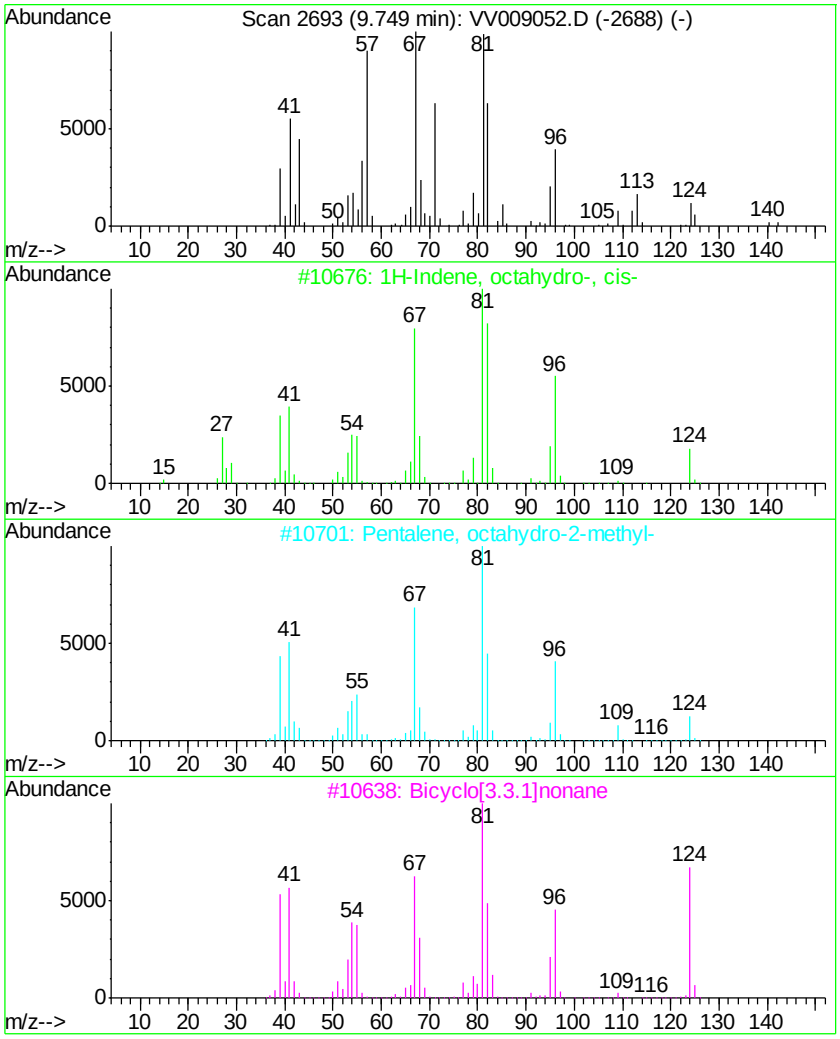
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

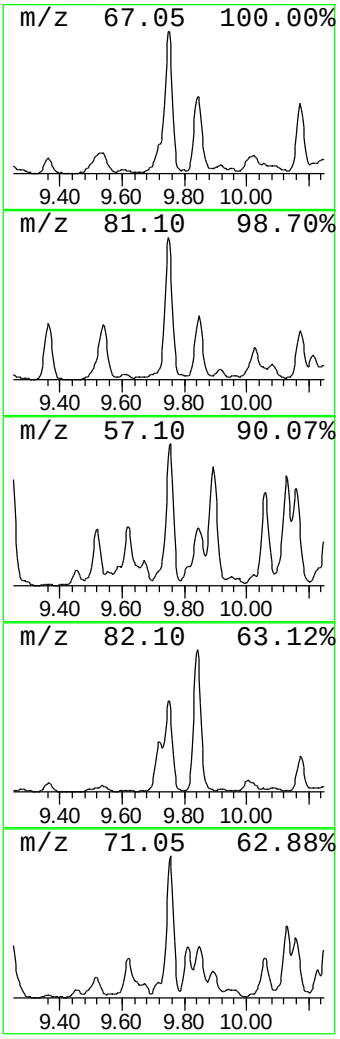
****

Peak Number 13 1H-Indene, octahydro-, cis- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.75	22.37 ug/L	495284	Chlorobenzene-d5	8.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, octahydro-, cis-	124	C9H16	004551-51-3	60
2	Pentalene, octahydro-2-methyl-	124	C9H16	003868-64-2	55
3	Bicyclo[3.3.1]nonane	124	C9H16	000280-65-9	52
4	1H-Indene, octahydro-, trans-	124	C9H16	003296-50-2	49
5	1-Heptadecyne	236	C17H32	026186-00-5	43





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Sample : J6441-02
Misc : 5.61G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : BE7Z9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis

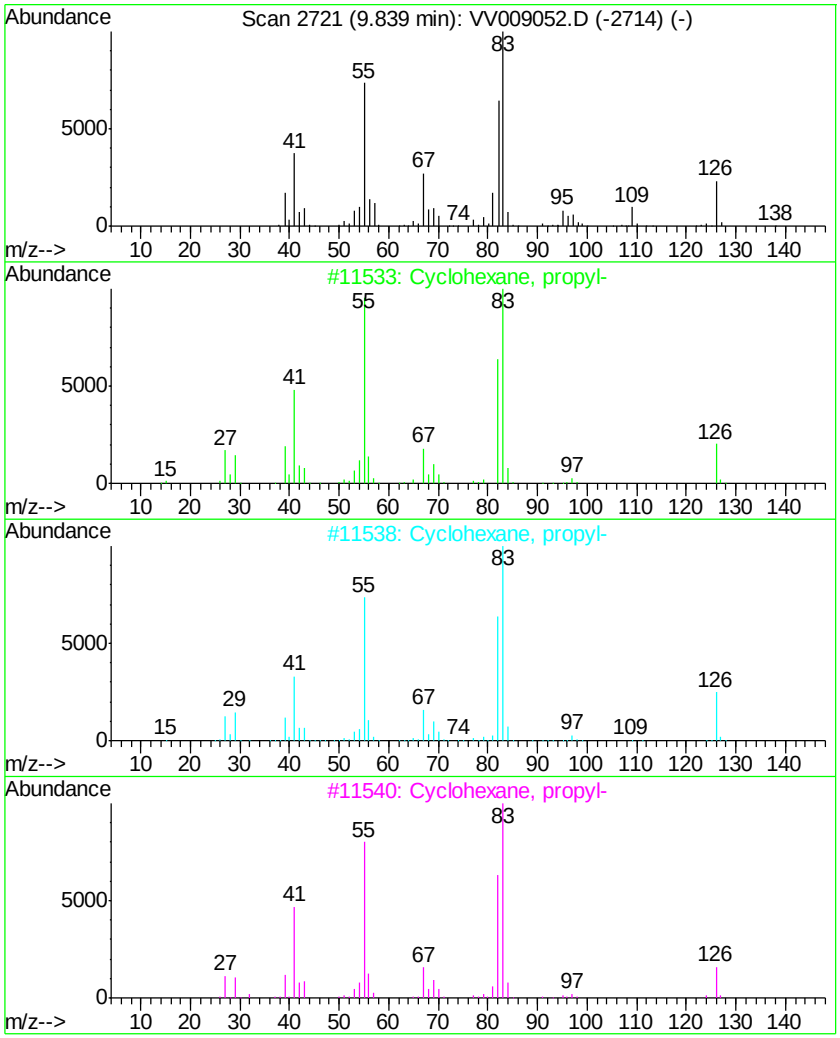
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

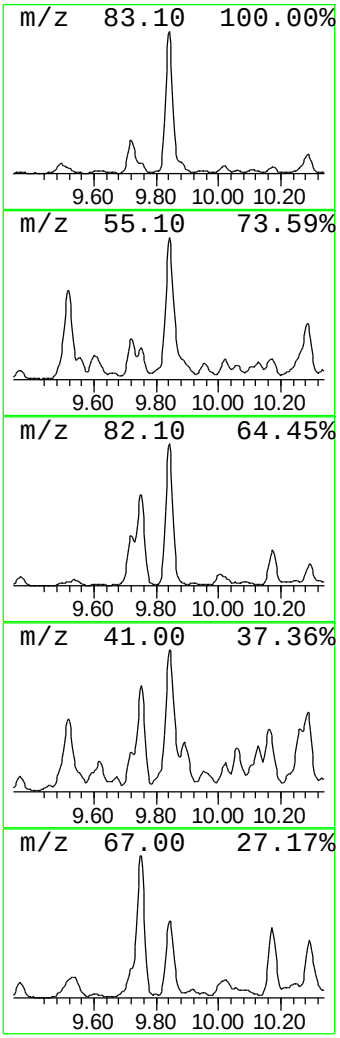
****

Peak Number 14 (DEL) Alkane: Cyclic9.84 Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.84	27.37 ug/L	605944	Chlorobenzene-d5	8.90

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, propyl-	126	C9H18	001678-92-8	87
2	Cyclohexane, propyl-	126	C9H18	001678-92-8	87
3	Cyclohexane, propyl-	126	C9H18	001678-92-8	80
4	Cyclohexane, propyl-	126	C9H18	001678-92-8	72
5	Cyclohexane, 2-propenyl-	124	C9H16	002114-42-3	64





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Sample : J6441-02
Misc : 5.61G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : BE7Z9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis

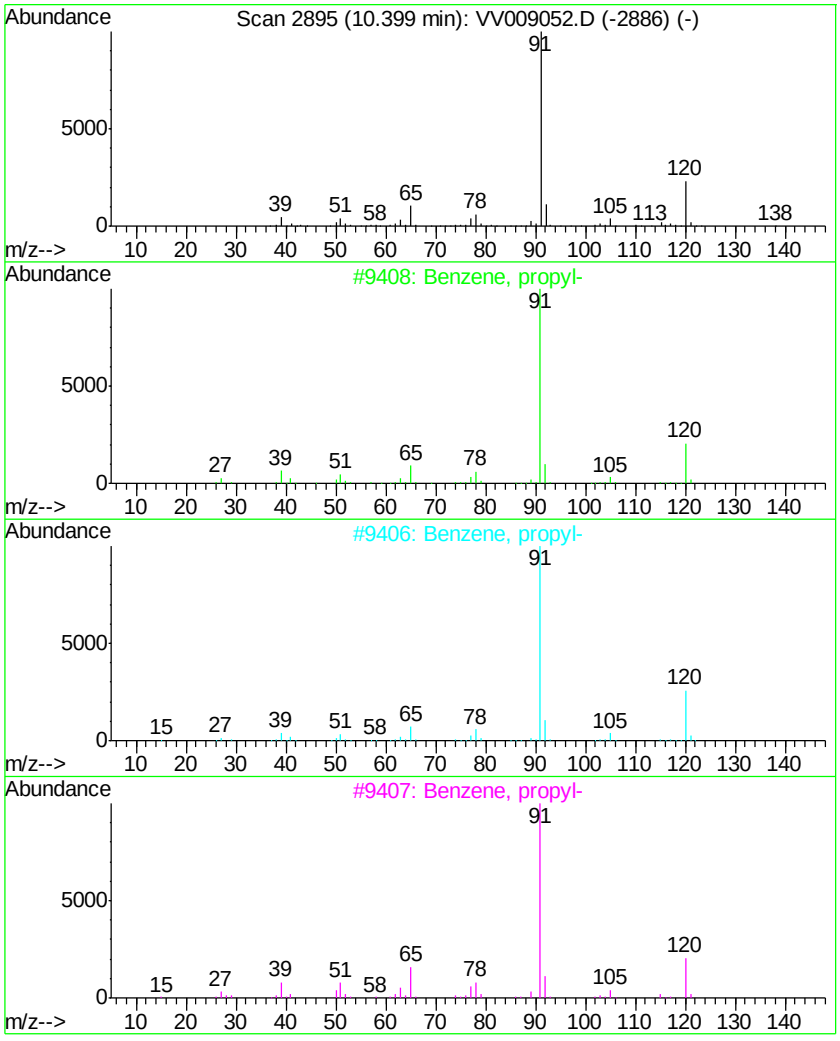
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

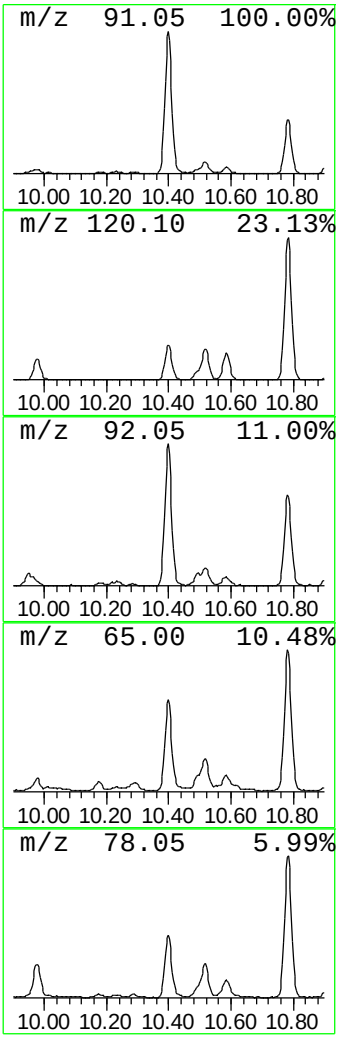
****

Peak Number 15 Benzene, propyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.40	18.15 ug/L	445529	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, propyl-	120	C9H12	000103-65-1	90
2	Benzene, propyl-	120	C9H12	000103-65-1	90
3	Benzene, propyl-	120	C9H12	000103-65-1	90
4	N-Benzyl-2-phenethylamine	211	C15H17N	003647-71-0	74
5	N-Benzyl-2-phenethylamine	211	C15H17N	003647-71-0	72





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Acq On : 19 Dec 2018 15:53
Operator : SY/MD
Sample : J6441-02
Misc : 5.61G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : BE7Z9

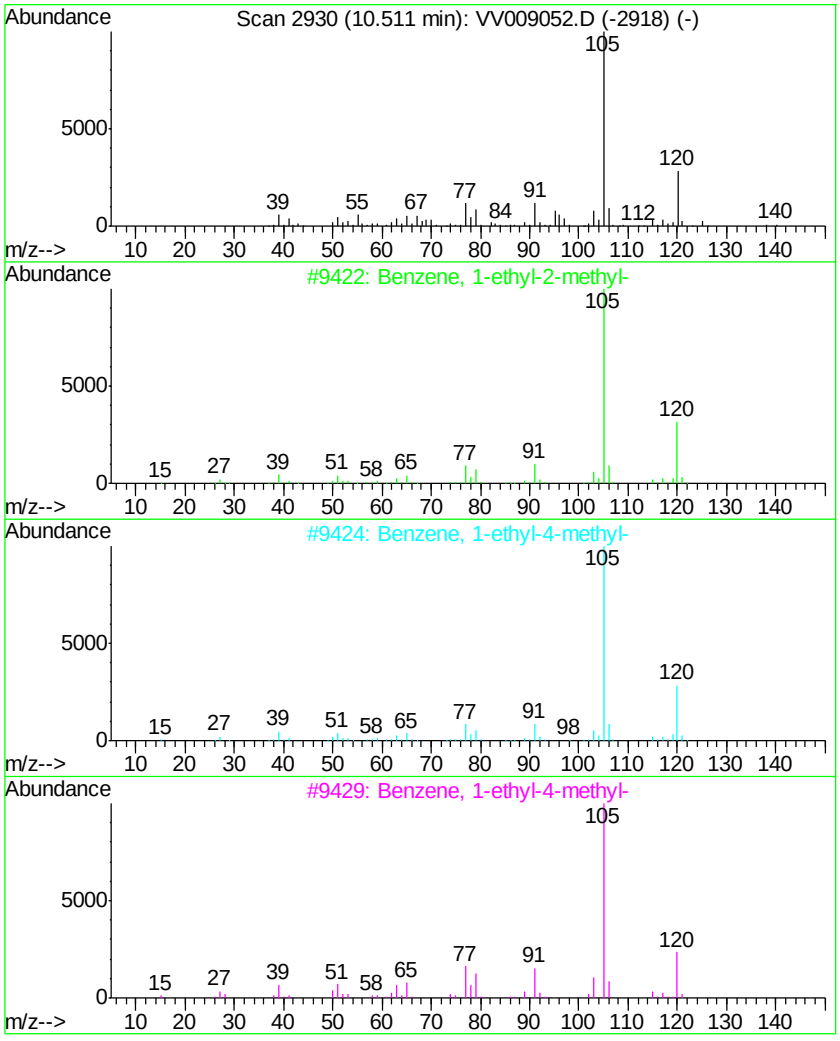
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis

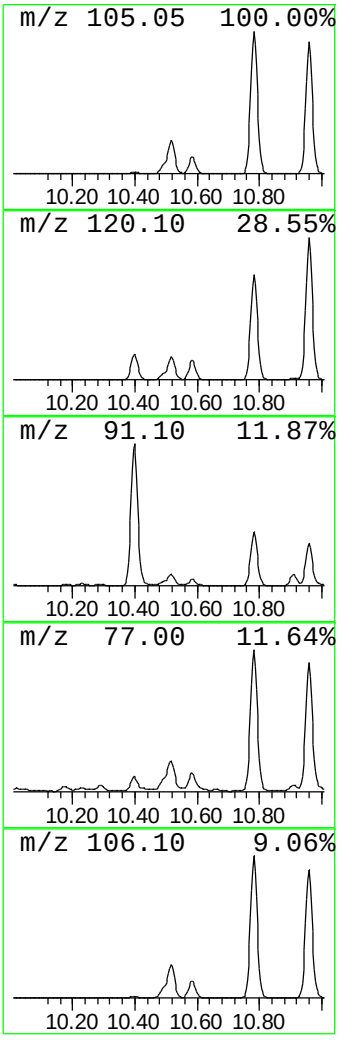
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 16 Benzene, 1-ethyl-2-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.51	22.05 ug/L	541447	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	94
2	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	93
3	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	93
4	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	87
5	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	87





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Sample : J6441-02
Misc : 5.61G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : BE7Z9

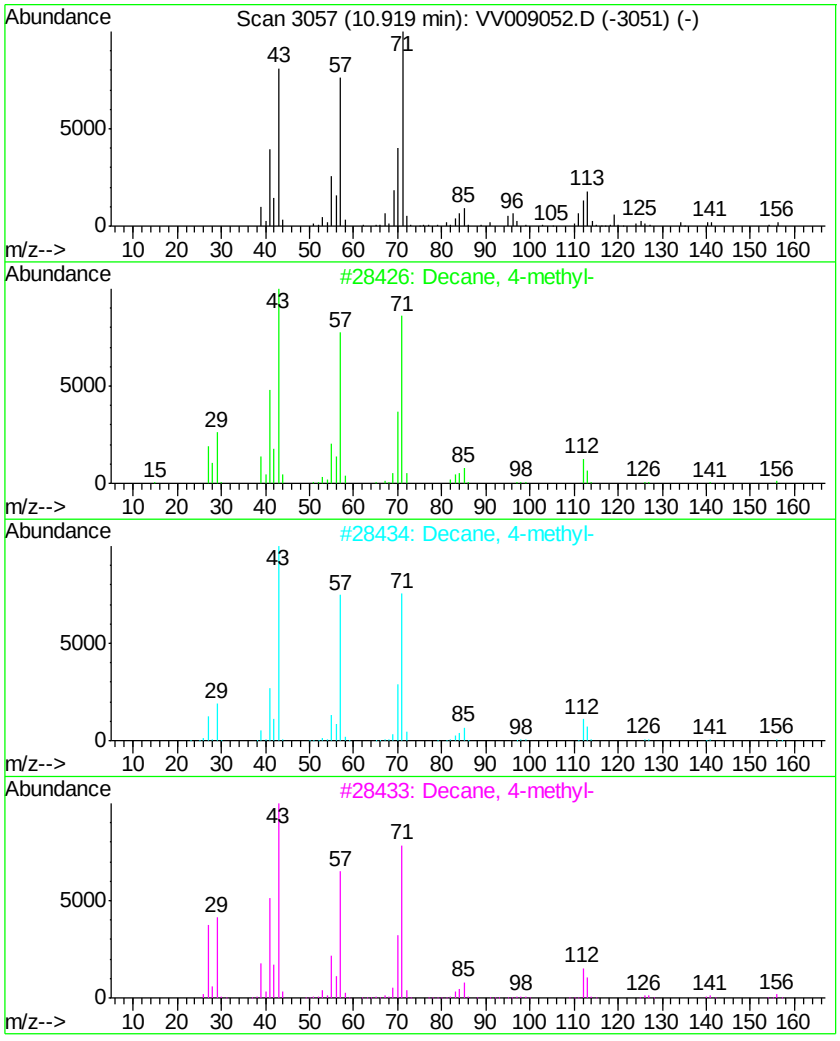
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis

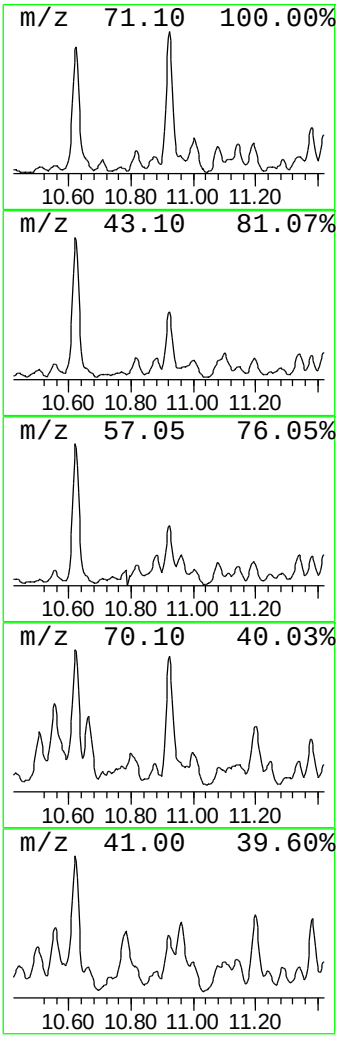
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 18 (DEL) Alkane: Straight-Chai... Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.92	6.08 ug/L	149378	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane, 4-methyl-	156	C11H24	002847-72-5	93
2	Decane, 4-methyl-	156	C11H24	002847-72-5	83
3	Decane, 4-methyl-	156	C11H24	002847-72-5	83
4	Heptane, 3,3,5-trimethyl-	142	C10H22	007154-80-5	78
5	Octane, 3,3-dimethyl-	142	C10H22	004110-44-5	72





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Operator : SY/MD
Sample : J6441-02
Misc : 5.61G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : BE7Z9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis

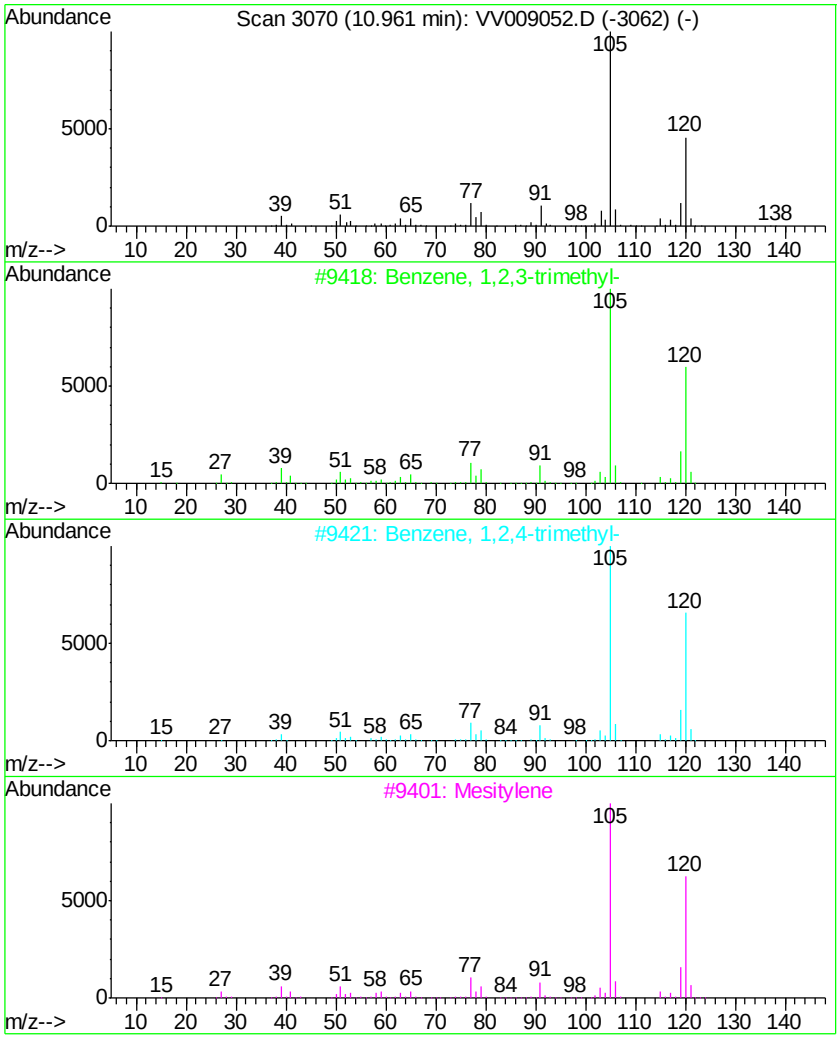
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

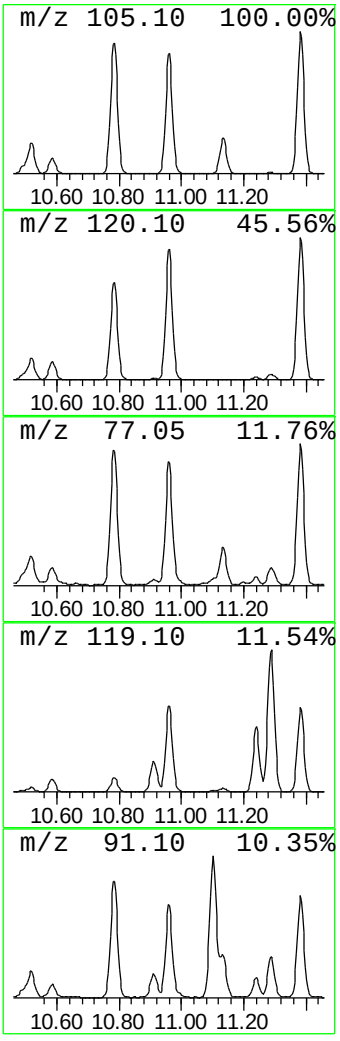
****

Peak Number 19 Benzene, 1,2,3-trimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.96	77.76 ug/L	1909100	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	97
2	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	95
3	Mesitylene	120	C9H12	000108-67-8	94
4	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	94
5	Mesitylene	120	C9H12	000108-67-8	93





Library Search Compound Report

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Data File : VV009052.D
Acq On : 19 Dec 2018 15:53
Operator : SY/MD
Sample : J6441-02
Misc : 5.61G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : BE7Z9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis

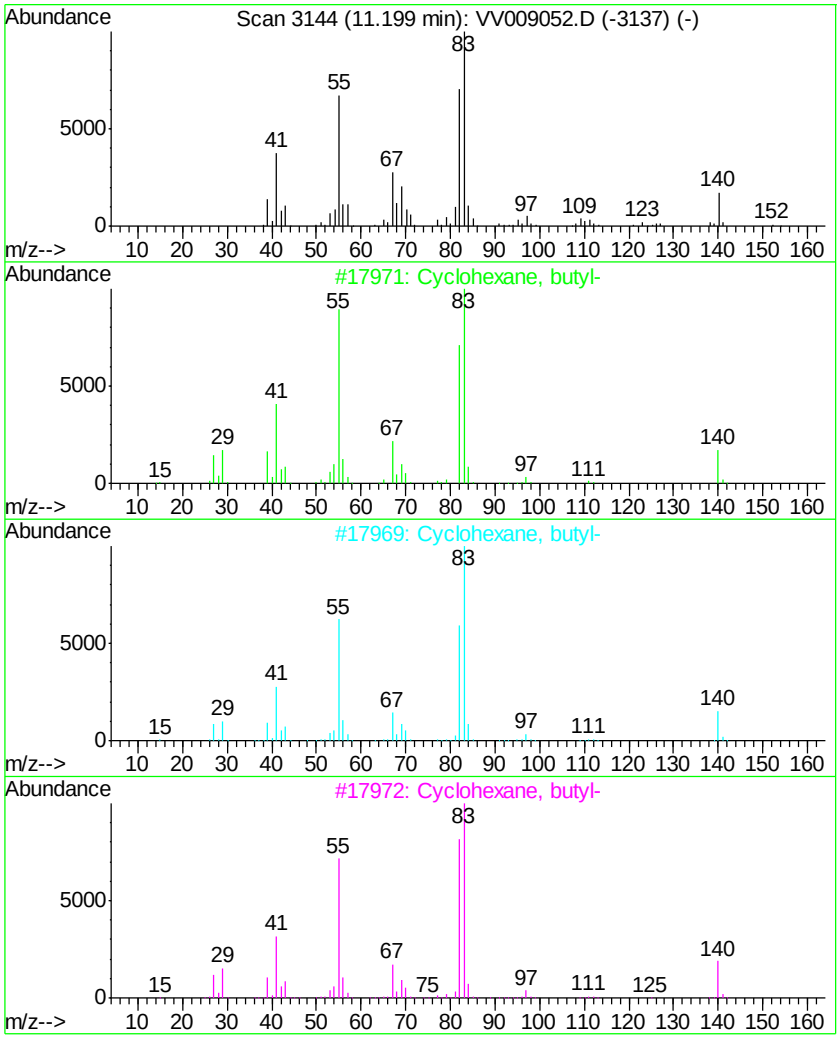
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

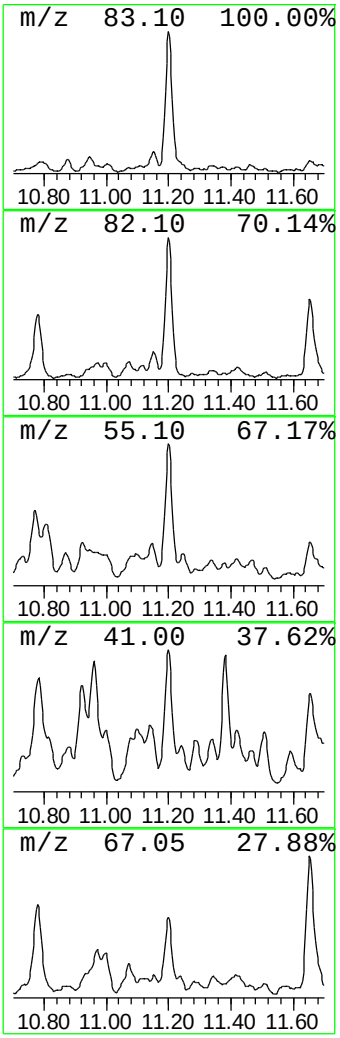
****

Peak Number 20 (DEL) Alkane: Cyclic11.20 Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.20	9.13 ug/L	224052	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, butyl-	140	C10H20	001678-93-9	87
2	Cyclohexane, butyl-	140	C10H20	001678-93-9	81
3	Cyclohexane, butyl-	140	C10H20	001678-93-9	81
4	Cyclohexane, 1,1'-(1,4-butanediy...	222	C16H30	006165-44-2	78
5	Cyclohexane, propyl-	126	C9H18	001678-92-8	59





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Data File : VV009052.D
Acq On : 19 Dec 2018 15:53
Operator : SY/MD
Sample : J6441-02
Misc : 5.61G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : BE7Z9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis

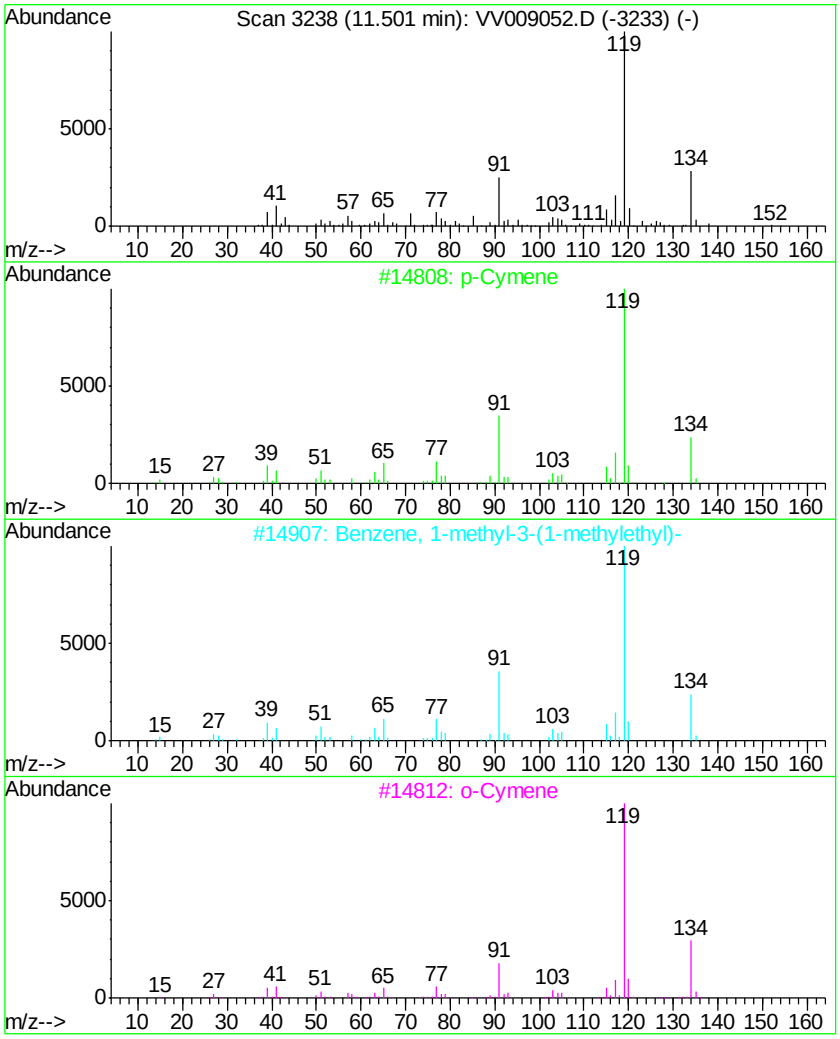
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

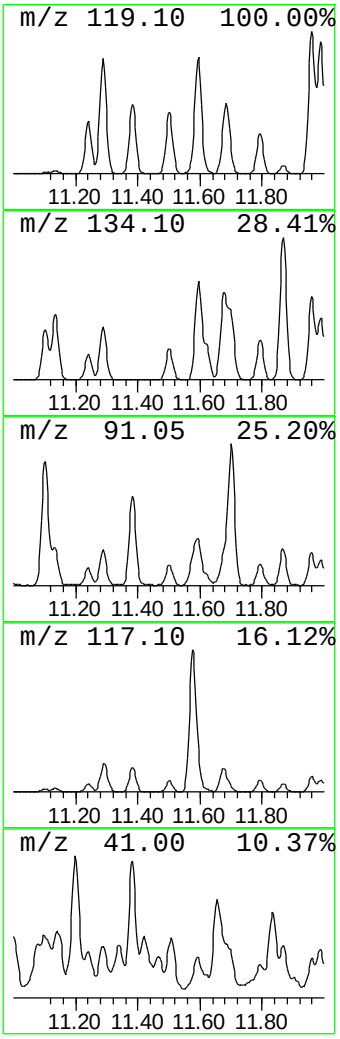
****

Peak Number 22 p-Cymene Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.50	9.68 ug/L	237682	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	p-Cymene	134	C10H14	000099-87-6	93
2	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	93
3	o-Cymene	134	C10H14	000527-84-4	93
4	o-Cymene	134	C10H14	000527-84-4	93
5	o-Cymene	134	C10H14	000527-84-4	93





Library Search Compound Report

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Data File : VV009052.D
Acq On : 19 Dec 2018 15:53
Operator : SY/MD
Sample : J6441-02
Misc : 5.61G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : BE7Z9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis

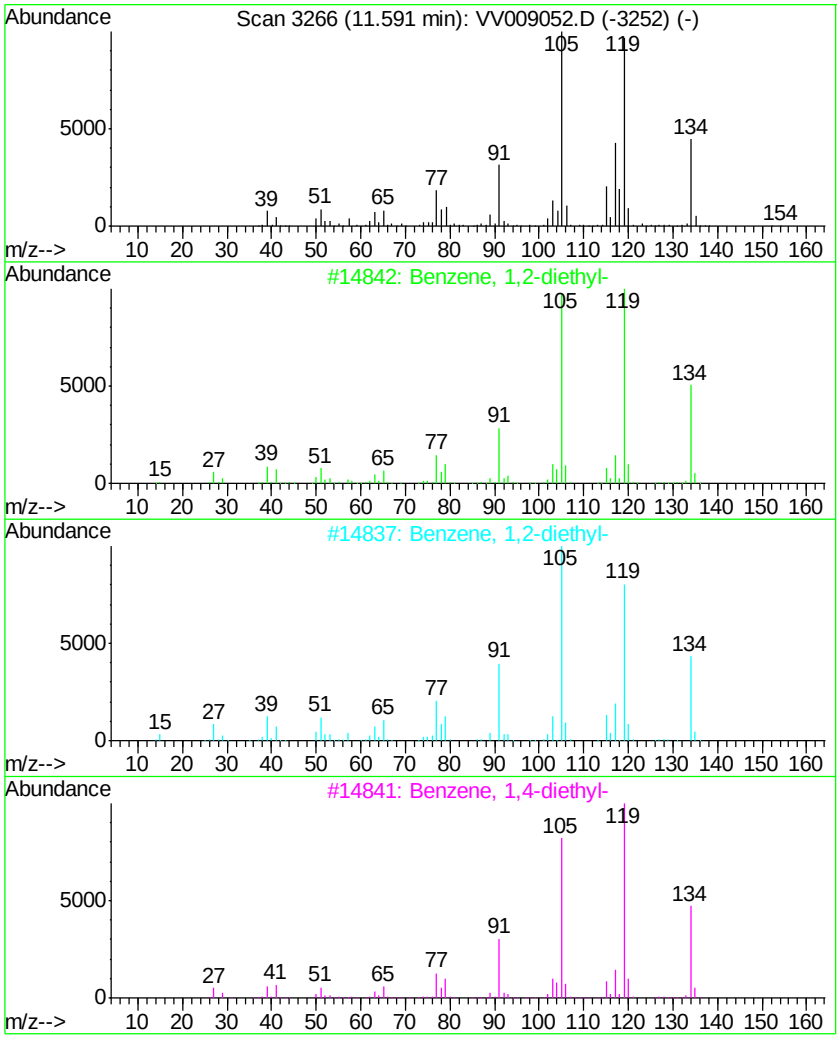
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

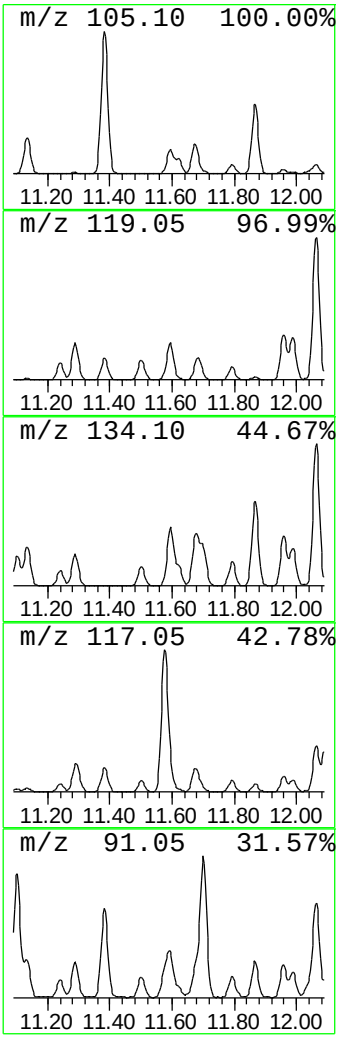
****

Peak Number 23 Benzene, 1,2-diethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.59	43.28 ug/L	1062530	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2-diethyl-	134	C10H14	000135-01-3	93
2	Benzene, 1,2-diethyl-	134	C10H14	000135-01-3	90
3	Benzene, 1,4-diethyl-	134	C10H14	000105-05-5	76
4	Benzene, 1,3-diethyl-	134	C10H14	000141-93-5	76
5	Benzene, 1,4-diethyl-	134	C10H14	000105-05-5	76





Library Search Compound Report

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Data File : VV009052.D
Acq On : 19 Dec 2018 15:53
Operator : SY/MD
Sample : J6441-02
Misc : 5.61G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : BE7Z9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis

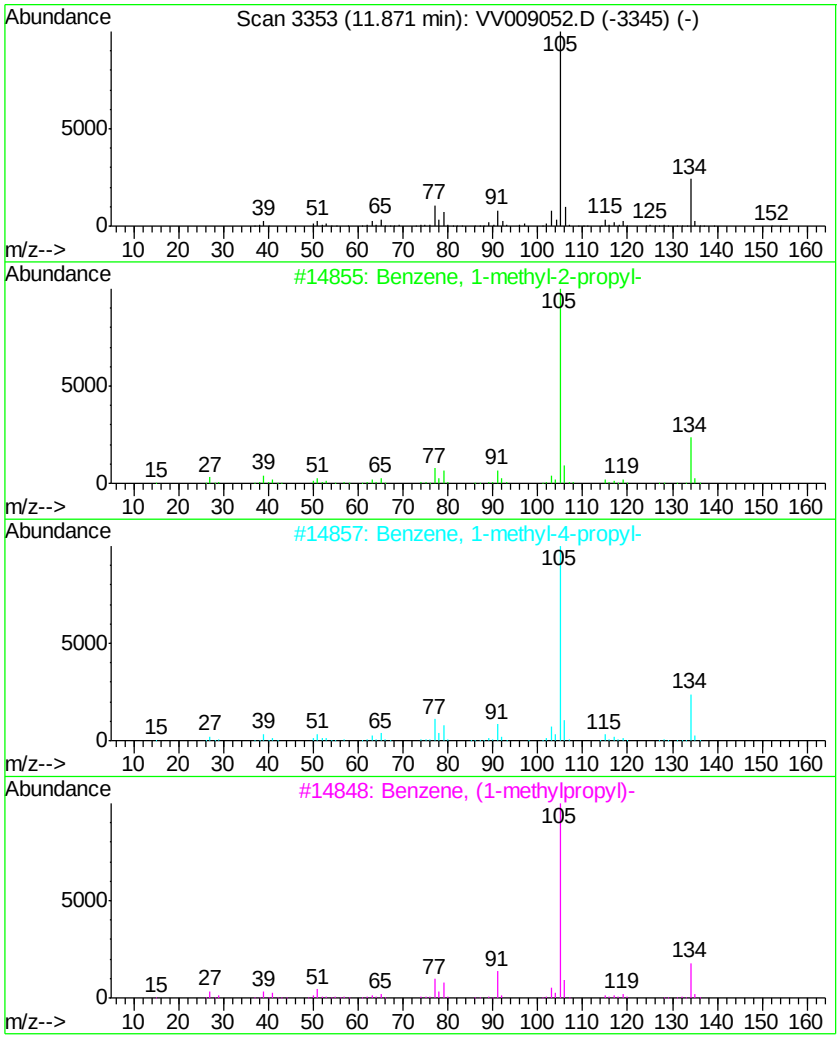
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

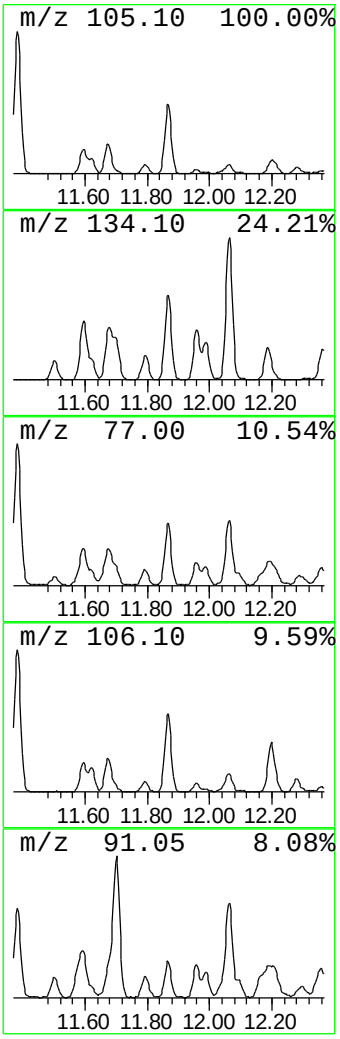
****

Peak Number 25 Benzene, 1-methyl-2-propyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.87	31.22 ug/L	766492	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	94
2	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	94
3	Benzene, (1-methylpropyl)-	134	C10H14	000135-98-8	91
4	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	91
5	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	90





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Data File : VV009052.D
Acq On : 19 Dec 2018 15:53
Operator : SY/MD
Sample : J6441-02
Misc : 5.61G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : BE7Z9

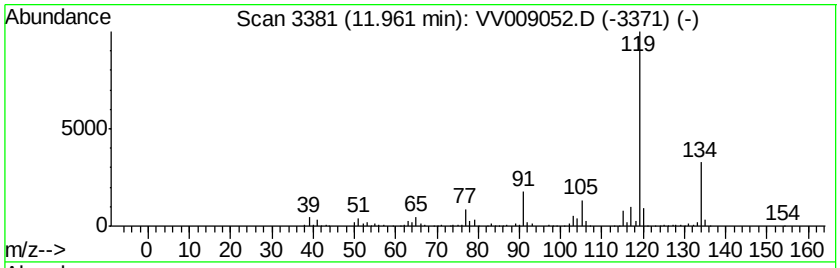
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis

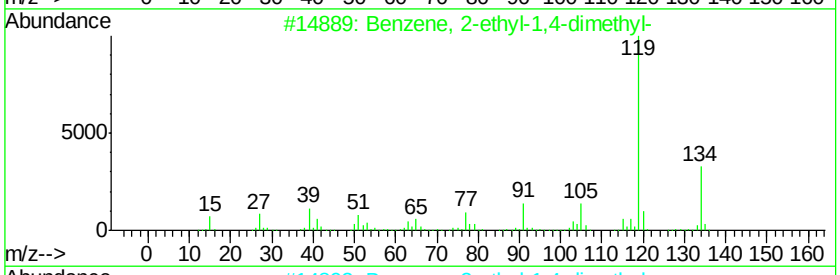
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

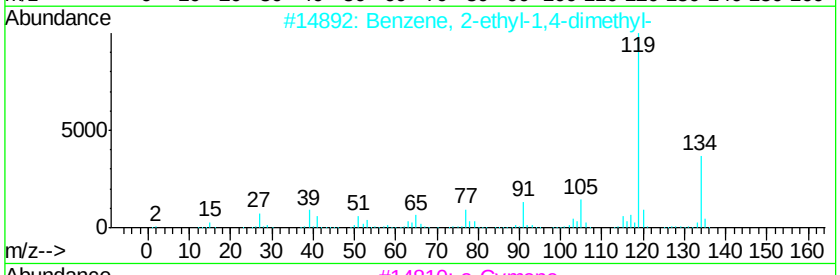
****
Peak Number 26 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 17

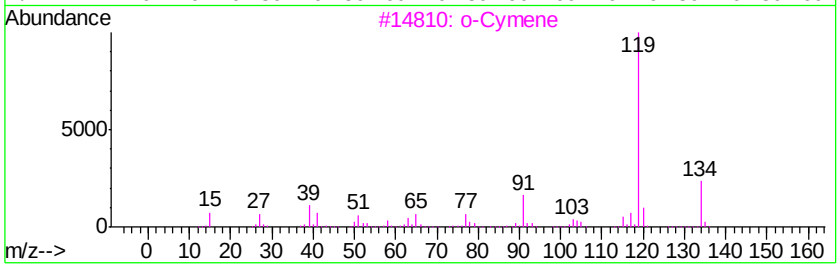
R.T.	EstConc	Area	Relative to ISTD	R.T.
11.96	15.95 ug/L	391688	1,4-Dichlorobenzene-d4	11.30

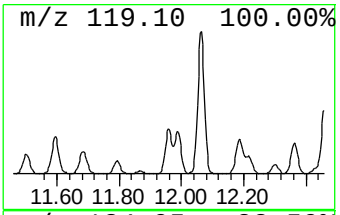
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	96
2	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	95
3	o-Cymene	134	C10H14	000527-84-4	95
4	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	95
5	o-Cymene	134	C10H14	000527-84-4	95

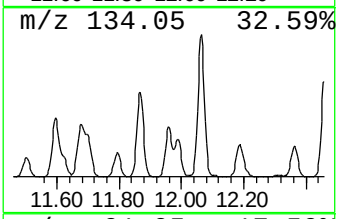


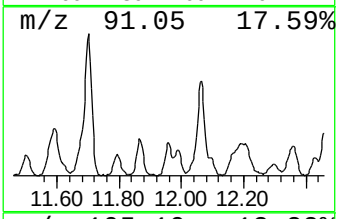


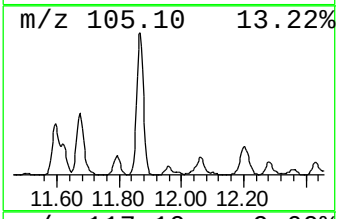


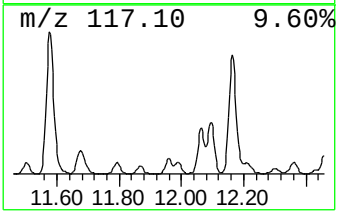












Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV121918\
Data File : VV009052.D
Acq On : 19 Dec 2018 15:53
Operator : SY/MD
Sample : J6441-02
Misc : 5.61G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : BE7Z9

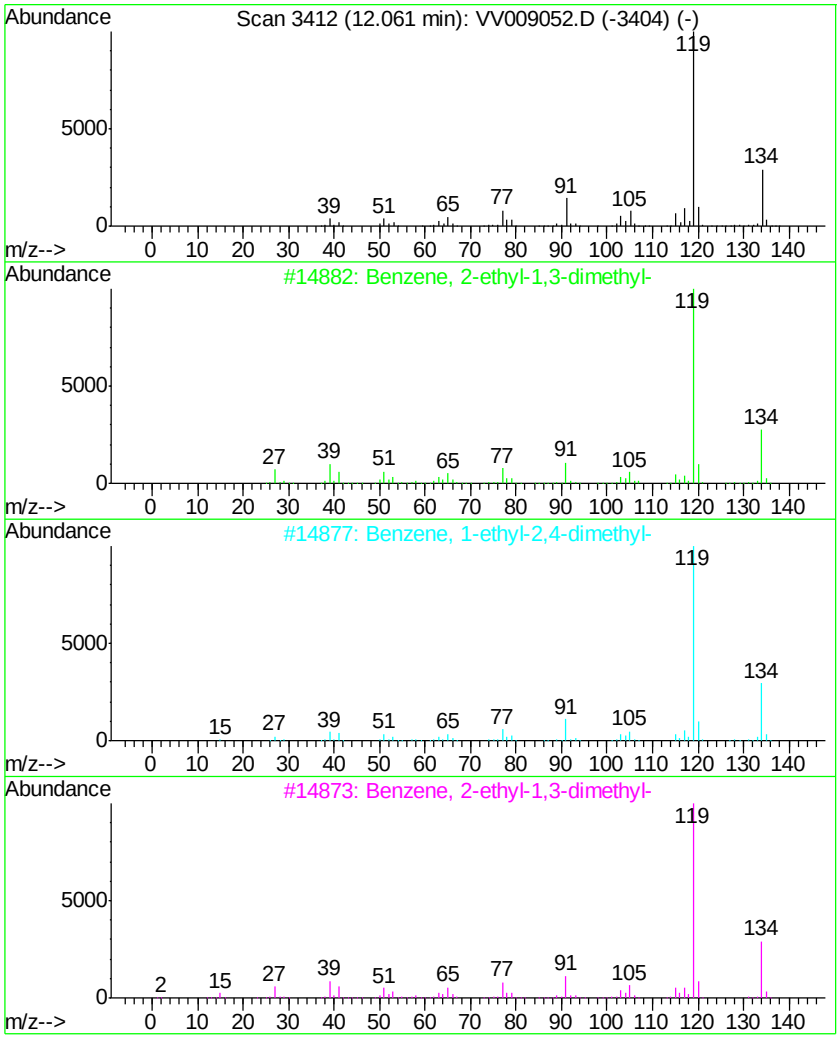
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis

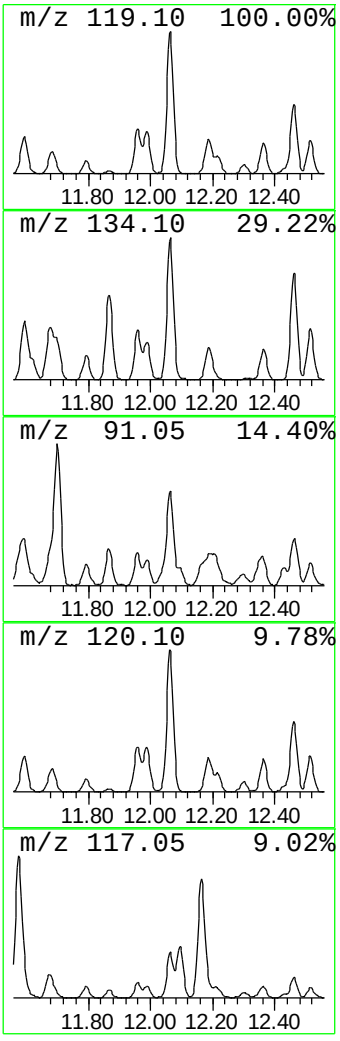
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 27 Benzene, 2-ethyl-1,3-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.06	42.31 ug/L	1038810	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	95
2	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	95
3	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	95
4	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	95
5	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	95





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Data File : VV009052.D
Acq On : 19 Dec 2018 15:53
Operator : SY/MD
Sample : J6441-02
Misc : 5.61G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : BE7Z9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis

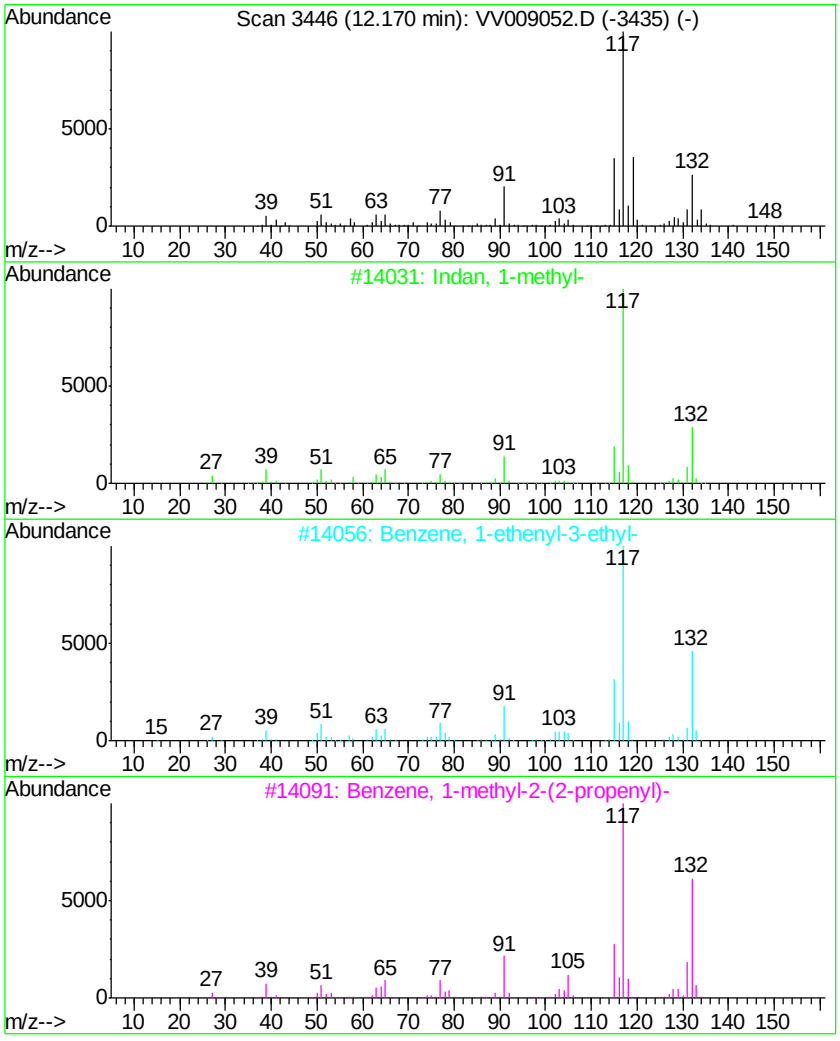
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

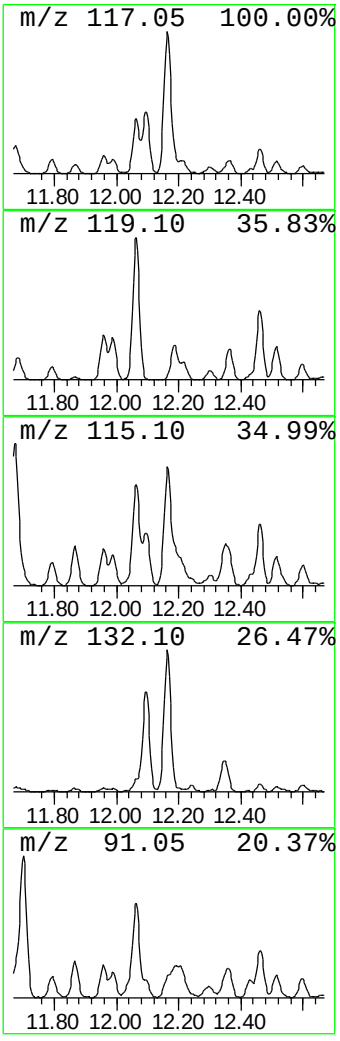
****

Peak Number 28 Indan, 1-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.17	12.09 ug/L	296792	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indan, 1-methyl-	132	C10H12	000767-58-8	93
2	Benzene, 1-ethenyl-3-ethyl-	132	C10H12	007525-62-4	83
3	Benzene, 1-methyl-2-(2-propenyl)-	132	C10H12	001587-04-8	83
4	Benzene, 2-butenyl-	132	C10H12	001560-06-1	80
5	Benzene, 1-methyl-4-(2-propenyl)-	132	C10H12	003333-13-9	80





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Acq On : 19 Dec 2018 15:53
Operator : SY/MD
Sample : J6441-02
Misc : 5.61G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : BE7Z9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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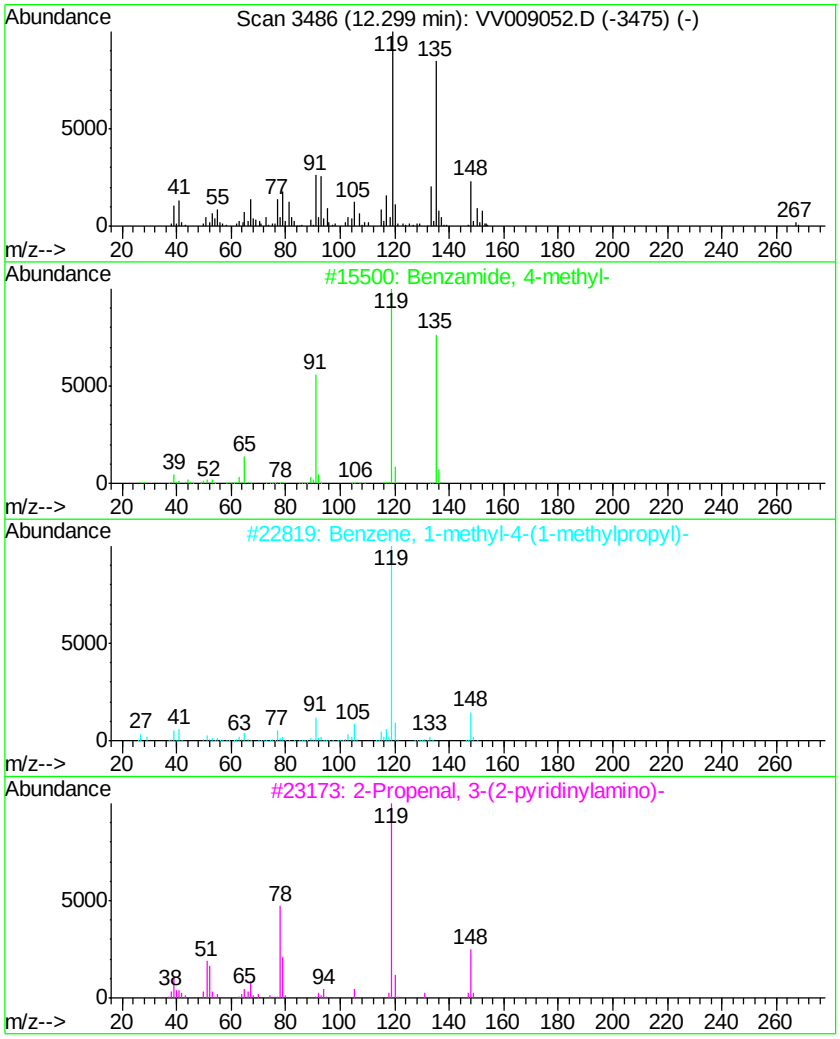
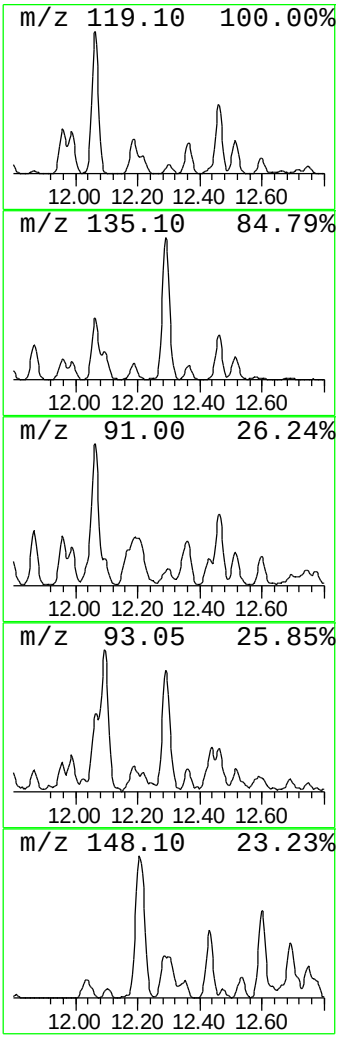
Peak Number 29 Benzamide, 4-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.30	9.93 ug/L	243815	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzamide, 4-methyl-	135	C8H9NO	000619-55-6	52
2	Benzene, 1-methyl-4-(1-methylpro...	148	C11H16	001595-16-0	46
3	2-Propenal, 3-(2-pyridinylamino)-	148	C8H8N2O	068970-82-1	30
4	Tricyclo[3.3.1.1(3,7)]decane, 1-...	181	C10H15NO2	007575-82-8	30
5	1-Adamantanecarboxylic acid chlo...	198	C11H15ClO	002094-72-6	25





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV121918\
Data File : VV009052.D
Acq On : 19 Dec 2018 15:53
Operator : SY/MD
Sample : J6441-02
Misc : 5.61G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : BE7Z9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis

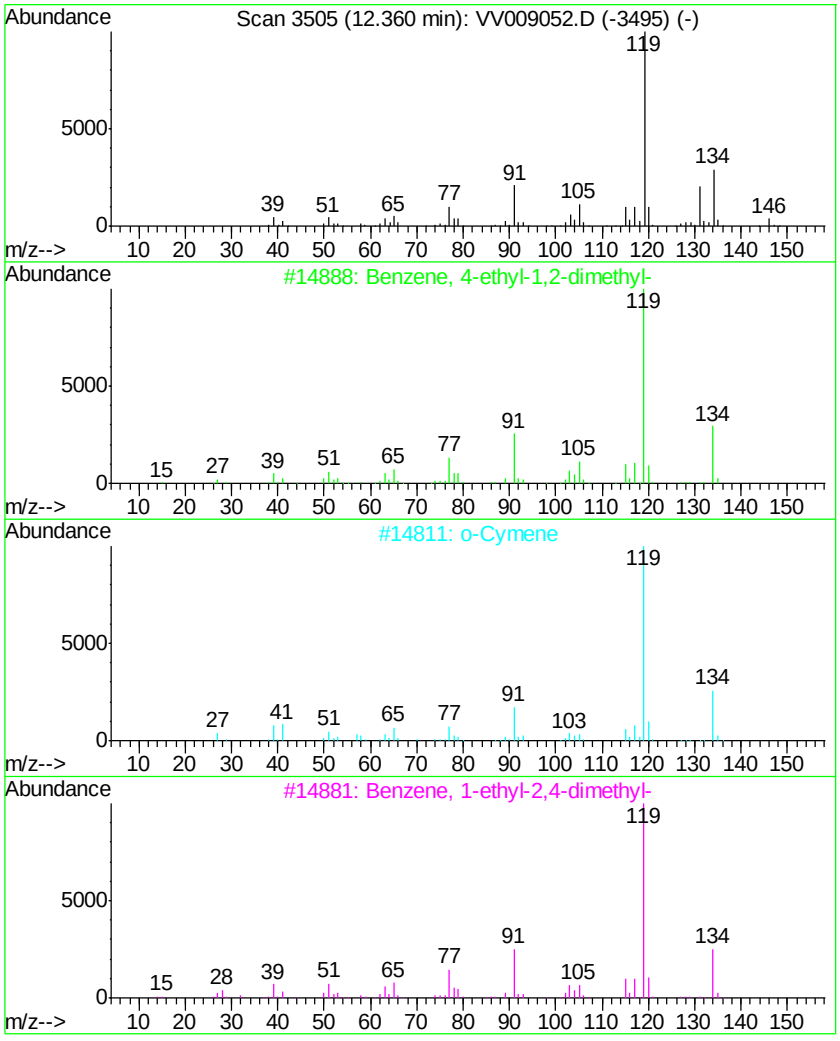
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

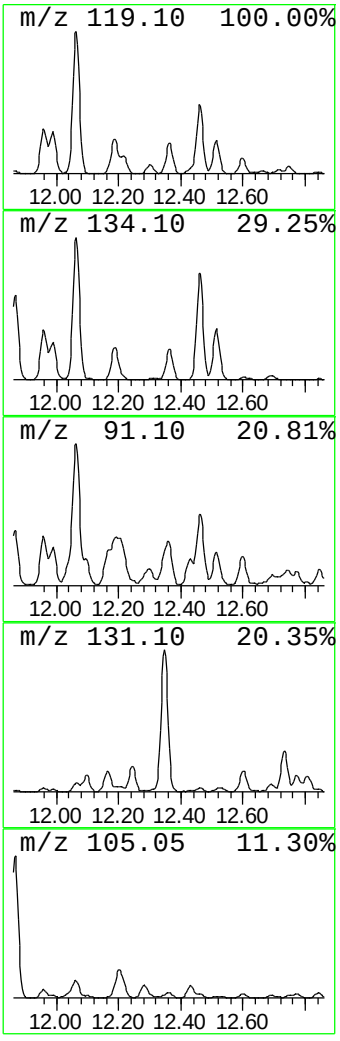
****

Peak Number 30 Benzene, 4-ethyl-1,2-dimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.36	17.56 ug/L	431043	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	96
2	o-Cymene	134	C10H14	000527-84-4	95
3	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	95
4	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	95
5	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	95





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Data File : VV009052.D
Acq On : 19 Dec 2018 15:53
Operator : SY/MD
Sample : J6441-02
Misc : 5.61G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : BE7Z9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis

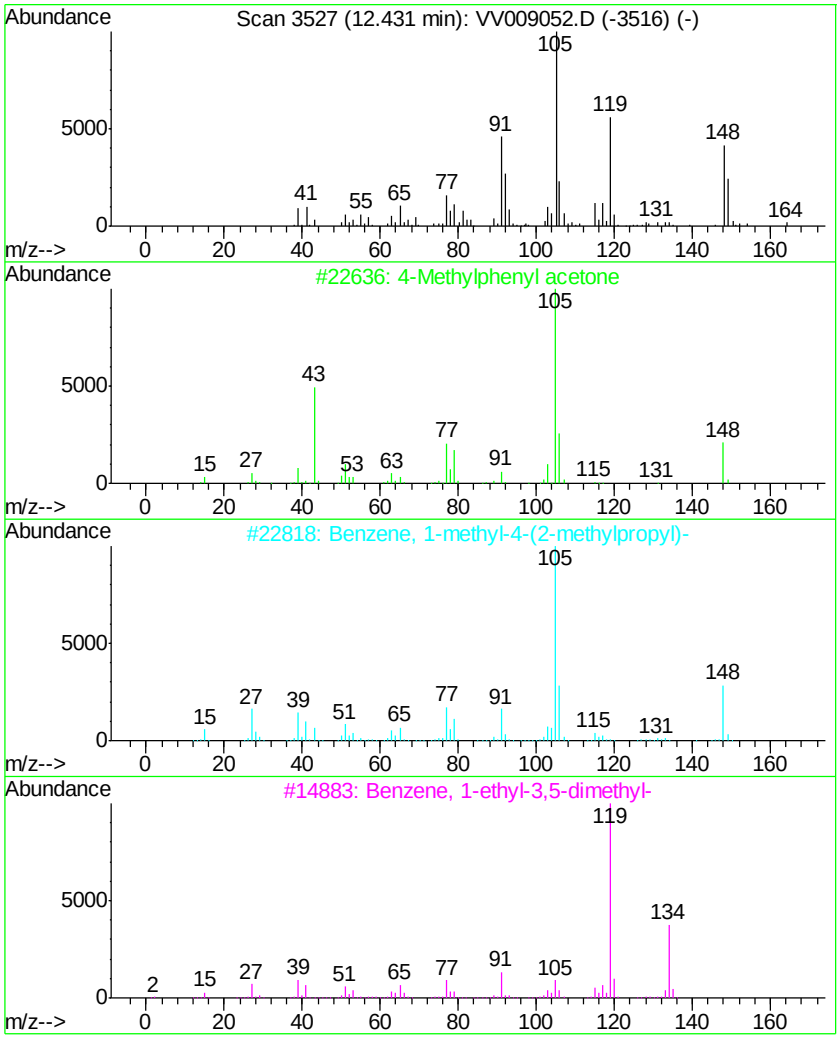
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

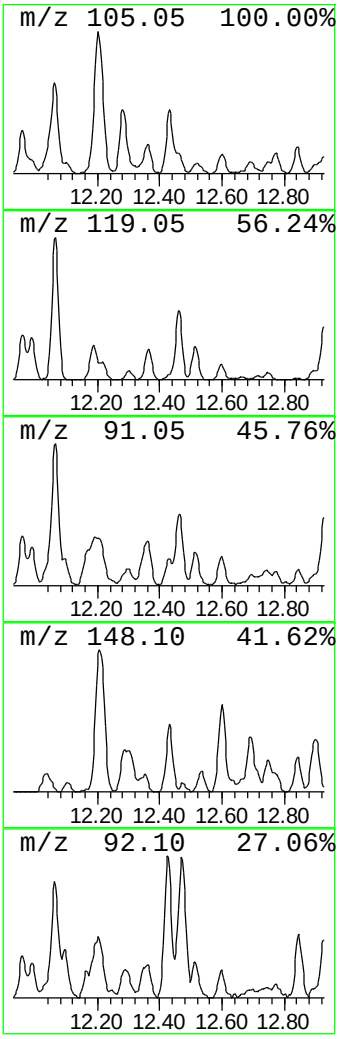
****

Peak Number 31 unknown-01 Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.43	6.25 ug/L	153422	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Methylphenyl acetone	148	C10H12O	002096-86-8	38
2	Benzene, 1-methyl-4-(2-methylpro...	148	C11H16	005161-04-6	38
3	Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	30
4	Benzene, (1-methylbutyl)-	148	C11H16	002719-52-0	30
5	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	27





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Data File : VV009052.D
Acq On : 19 Dec 2018 15:53
Operator : SY/MD
Sample : J6441-02
Misc : 5.61G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : BE7Z9

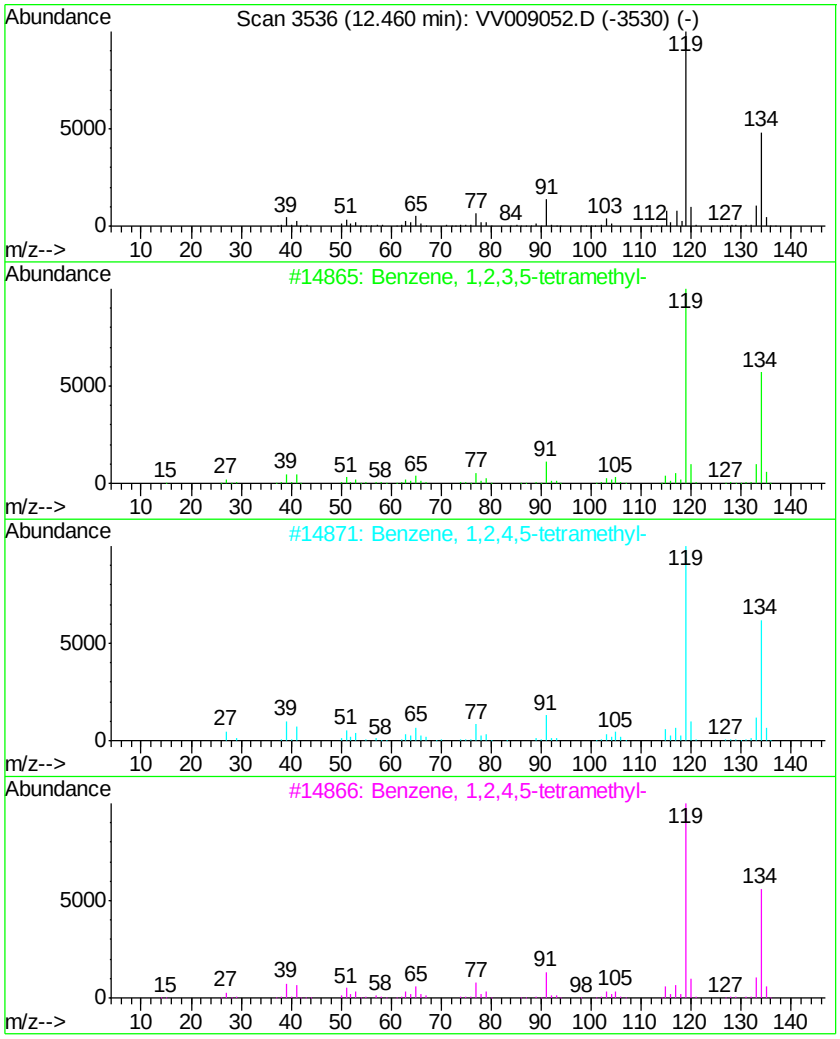
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis

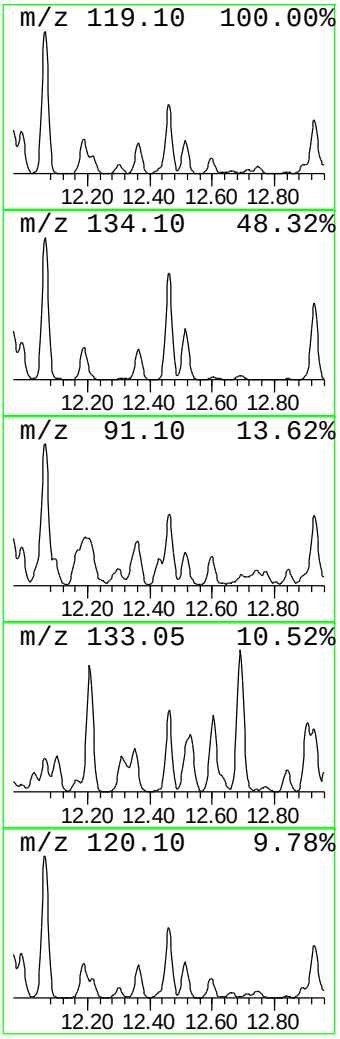
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 32 Benzene, 1,2,3,5-tetramethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.46	23.44 ug/L	575416	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	95
2	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	94
3	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	93
4	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	93
5	o-Cymene	134	C10H14	000527-84-4	93





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Data File : VV009052.D
Acq On : 19 Dec 2018 15:53
Operator : SY/MD
Sample : J6441-02
Misc : 5.61G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : BE7Z9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis

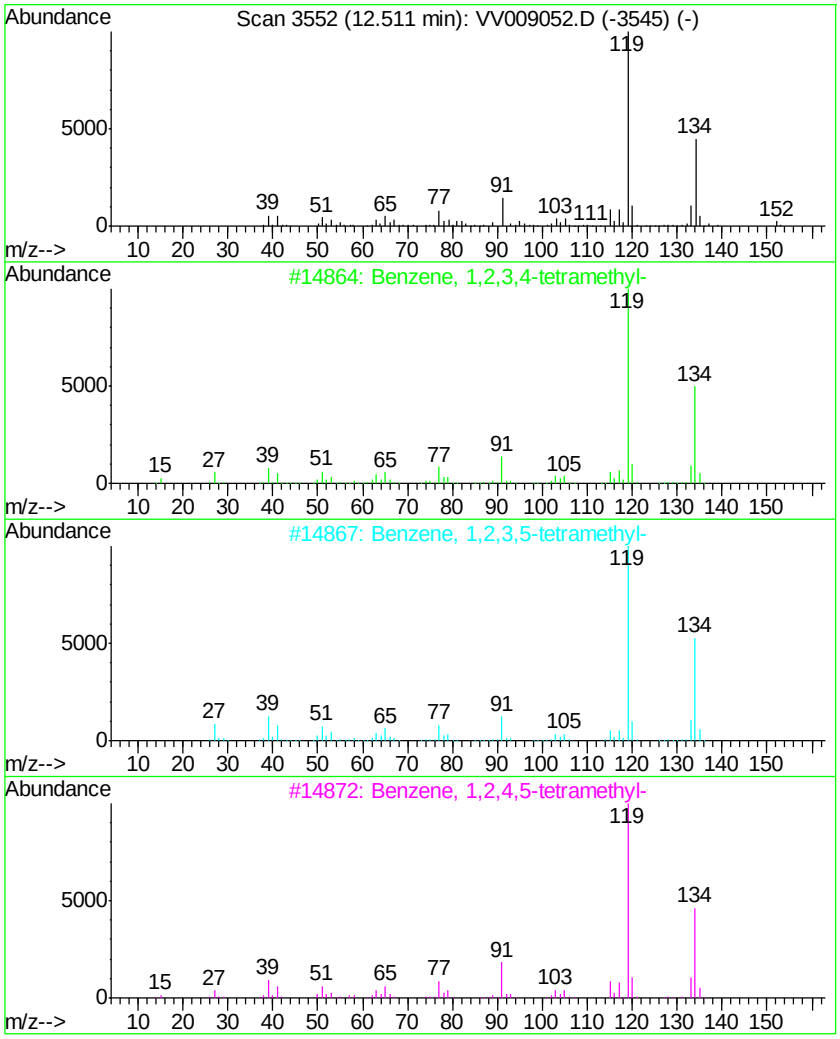
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

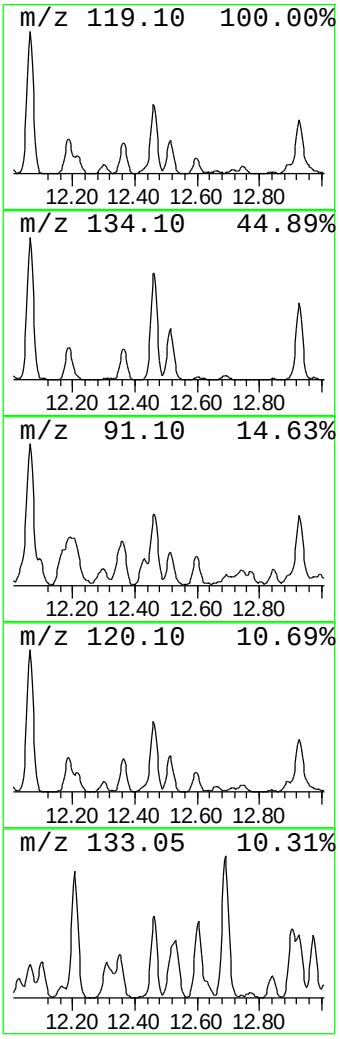
****

Peak Number 33 Benzene, 1,2,3,4-tetramethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.51	15.15 ug/L	372088	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	95
2	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	95
3	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	95
4	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	95
5	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	95





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Data File : VV009052.D
Acq On : 19 Dec 2018 15:53
Operator : SY/MD
Sample : J6441-02
Misc : 5.61G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : BE7Z9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis

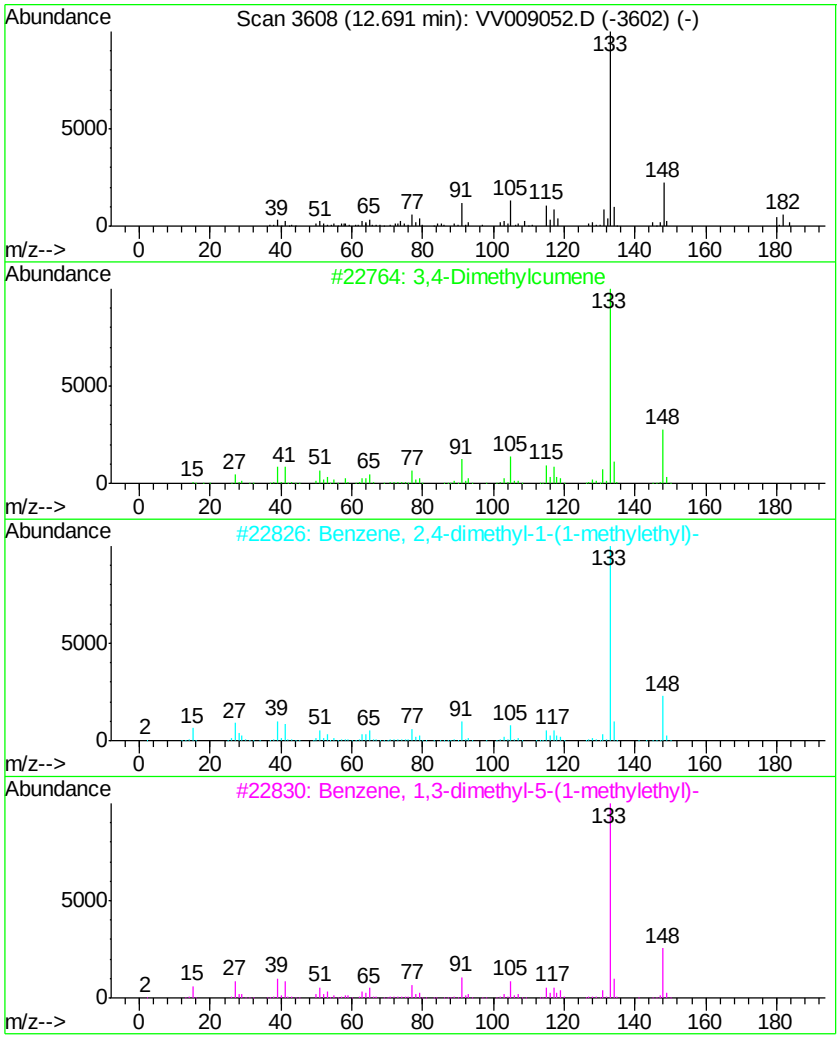
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

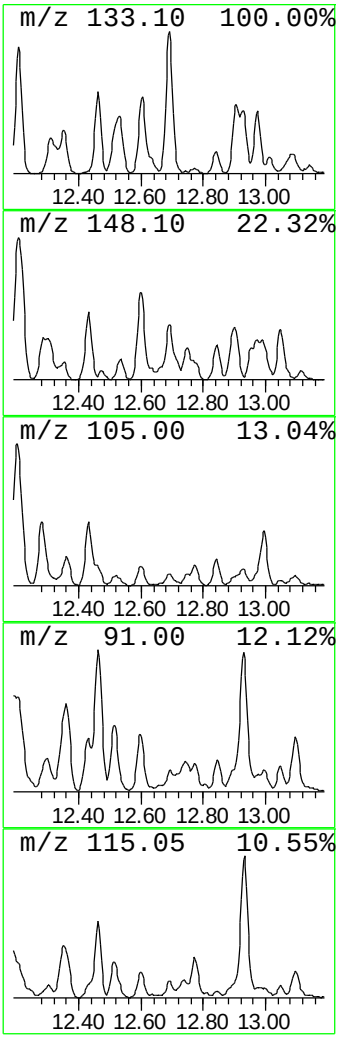
****

Peak Number 35 3,4-Dimethylcumene Concentration Rank 39

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.69	3.29 ug/L	80779	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,4-Dimethylcumene	148	C11H16	1000370-34-1	93
2	Benzene, 2,4-dimethyl-1-(1-methy...	148	C11H16	004706-89-2	93
3	Benzene, 1,3-dimethyl-5-(1-methy...	148	C11H16	004706-90-5	87
4	Benzene, 1,3-dimethyl-5-(1-methy...	148	C11H16	004706-90-5	87
5	Benzene, 1,4-dimethyl-2-(1-methy...	148	C11H16	004132-72-3	87





Library Search Compound Report

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Data File : VV009052.D
Acq On : 19 Dec 2018 15:53
Operator : SY/MD
Sample : J6441-02
Misc : 5.61G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : BE7Z9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis

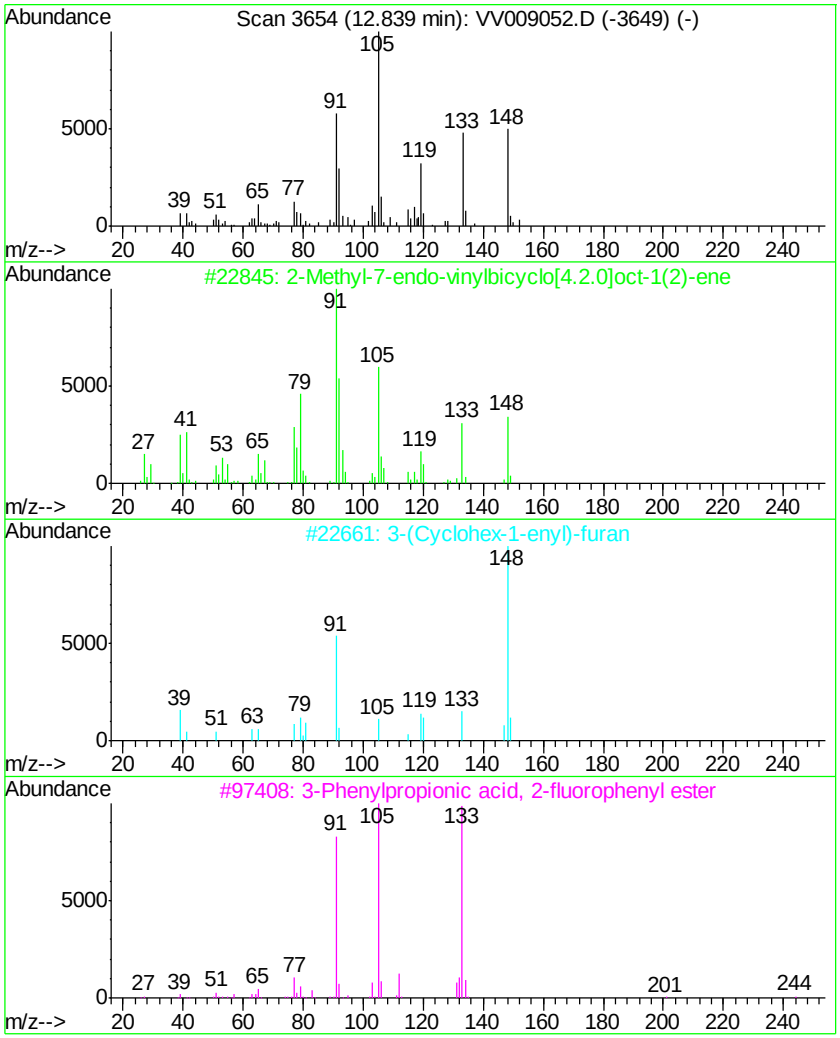
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

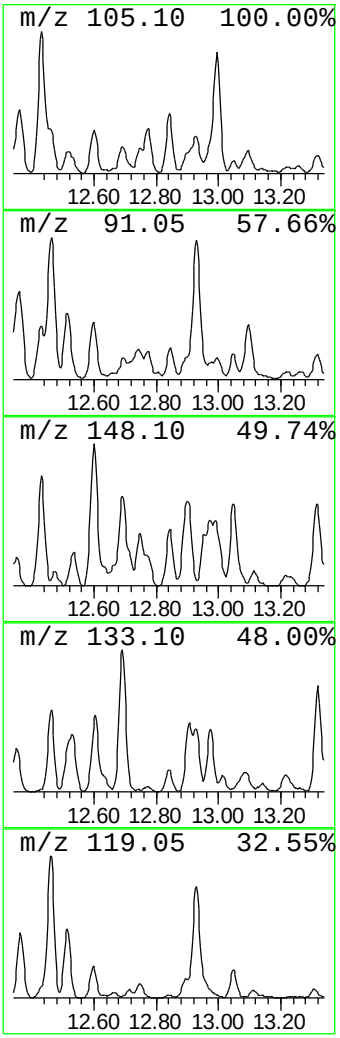
****

Peak Number 36 2-Methyl-7-endo-vinylbicycl... Concentration Rank 40

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.84	1.94 ug/L	47660	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Methyl-7-endo-vinylbicyclo[4.2...	148	C11H16	1000200-99-1	80
2	3-(Cyclohex-1-enyl)-furan	148	C10H12O	115754-80-8	46
3	3-Phenylpropionic acid, 2-fluoro...	244	C15H13FO2	1000325-75-9	38
4	Benzene, (1-ethylpropyl)-	148	C11H16	001196-58-3	38
5	2-Hydroxymethylbenzimidazole	148	C8H8N2O	022128-99-0	38





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Data File : VV009052.D
Acq On : 19 Dec 2018 15:53
Operator : SY/MD
Sample : J6441-02
Misc : 5.61G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : BE7Z9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis

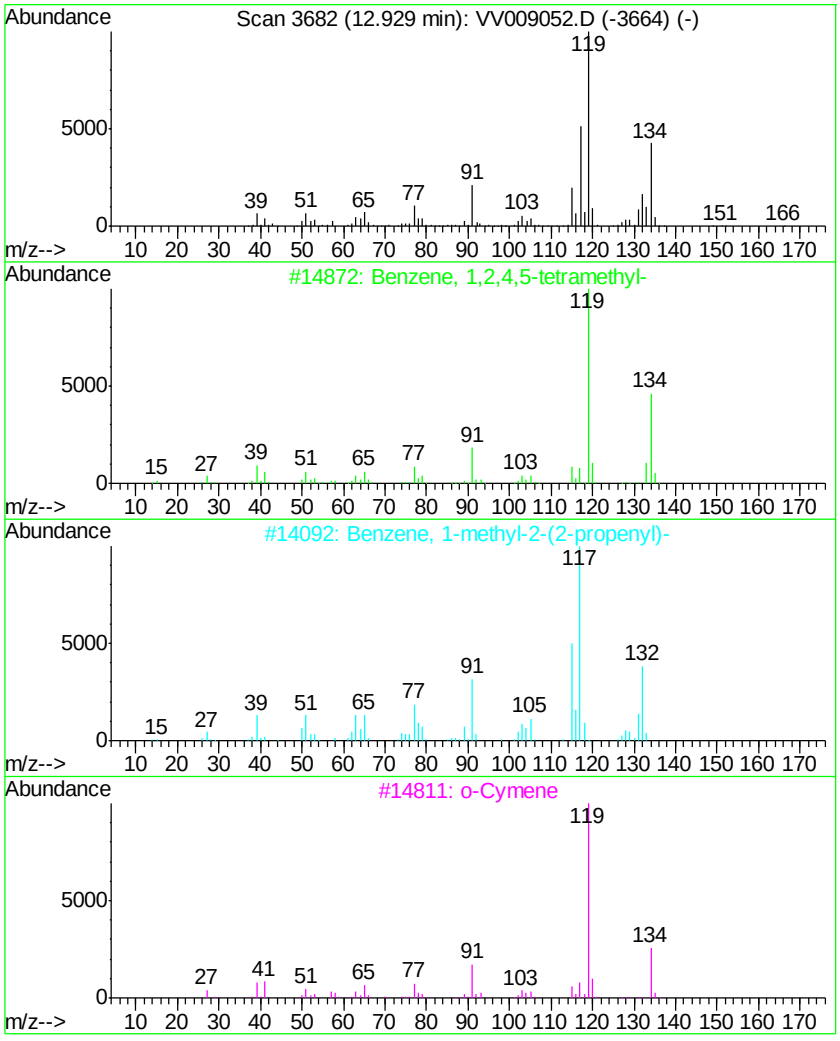
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

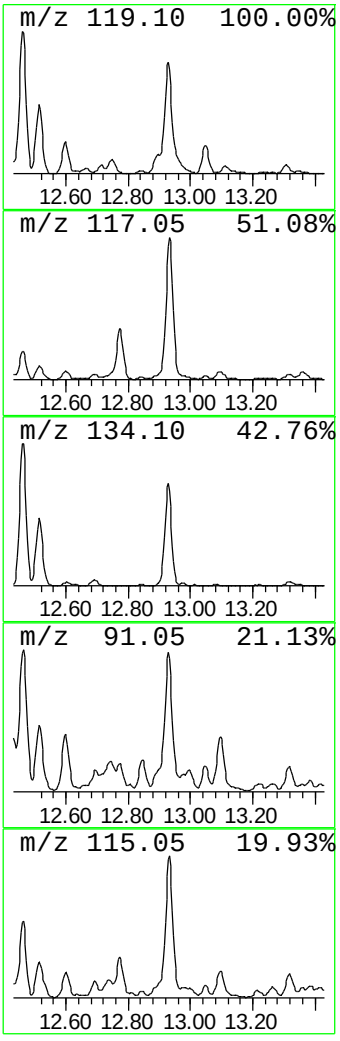
****

Peak Number 37 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.93	33.69 ug/L	827240	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	91
2	Benzene, 1-methyl-2-(2-propenyl)-	132	C10H12	001587-04-8	70
3	o-Cymene	134	C10H14	000527-84-4	64
4	p-Cymene	134	C10H14	000099-87-6	64
5	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	64





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV121918\
Data File : VV009052.D
Acq On : 19 Dec 2018 15:53
Operator : SY/MD
Sample : J6441-02
Misc : 5.61G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : BE7Z9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis

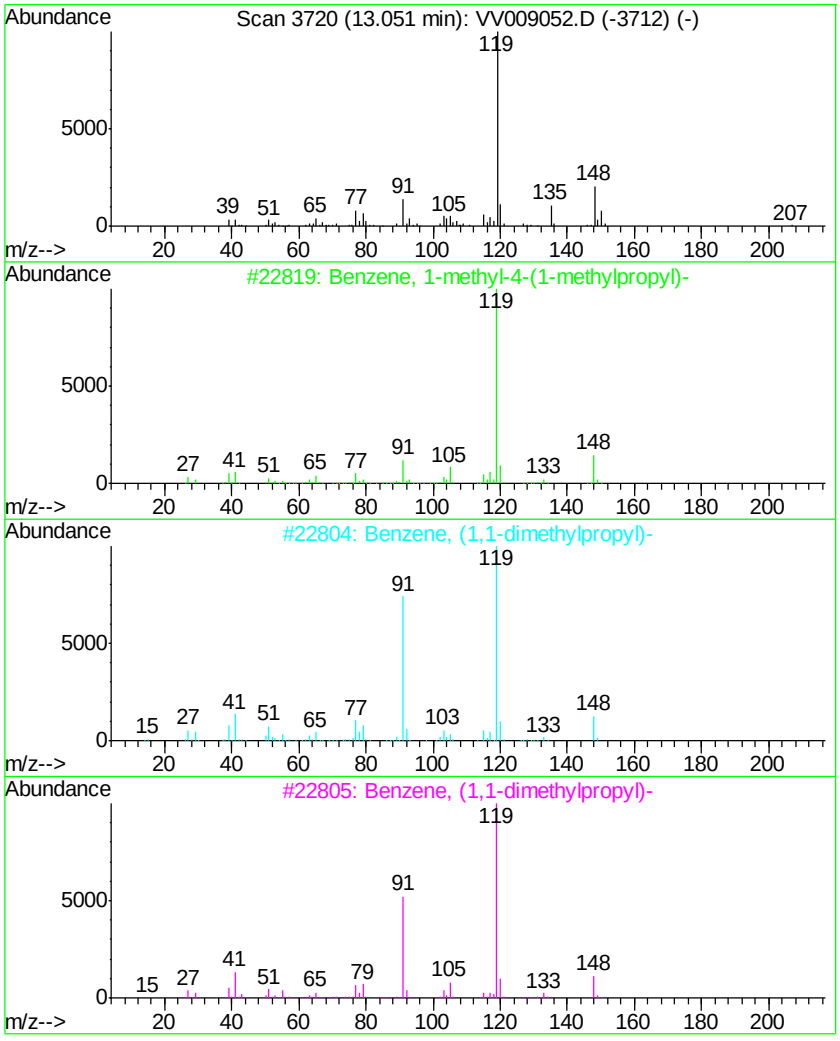
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

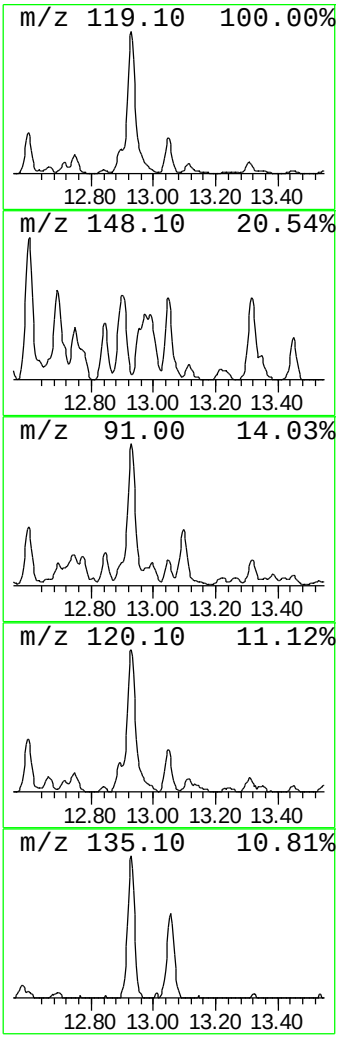
****

Peak Number 38 Benzene, 1-methyl-4-(1-meth... Concentration Rank 38

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.05	4.06 ug/L	99791	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-4-(1-methylpro...	148	C11H16	001595-16-0	90
2	Benzene, (1,1-dimethylpropyl)-	148	C11H16	002049-95-8	80
3	Benzene, (1,1-dimethylpropyl)-	148	C11H16	002049-95-8	72
4	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	64
5	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	64





Library Search Compound Report

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Data File : VV009052.D
Acq On : 19 Dec 2018 15:53
Operator : SY/MD
Sample : J6441-02
Misc : 5.61G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : BE7Z9

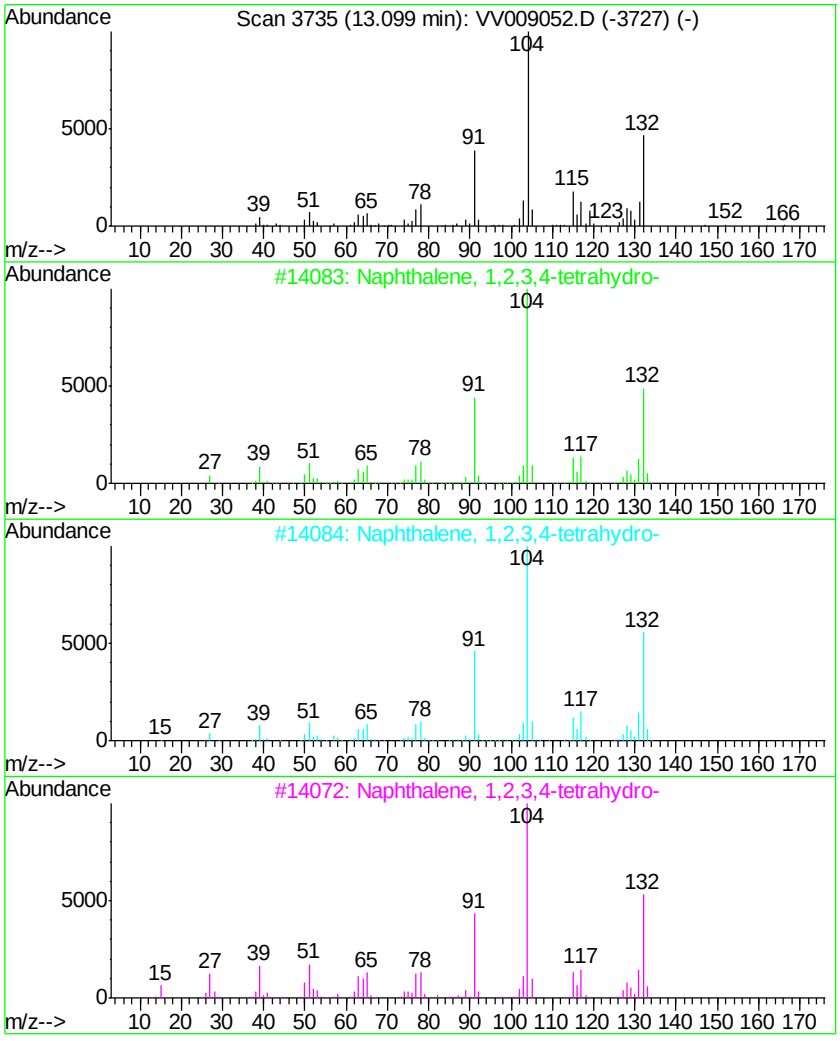
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis

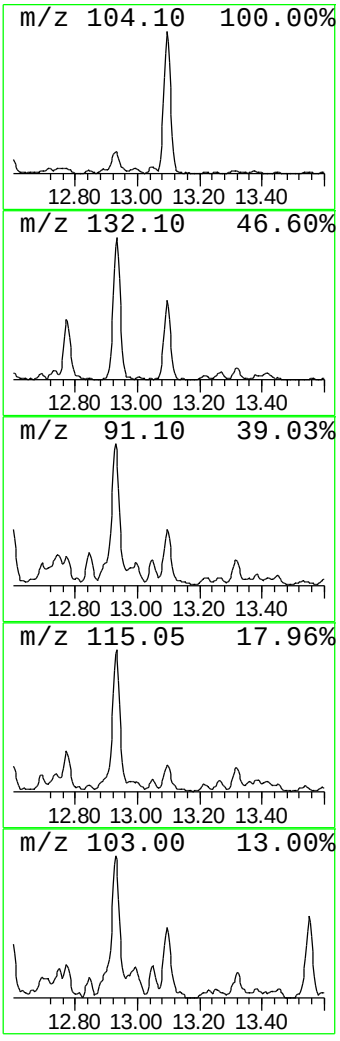
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 39 Naphthalene, 1,2,3,4-tetrah... Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.10	8.68 ug/L	213044	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	97
2	Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	96
3	Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	94
4	Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	93
5	Indan, epoxide	132	C9H8O	000768-22-9	58





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV121918\
Data File : VV009052.D
Acq On : 19 Dec 2018 15:53
Operator : SY/MD
Sample : J6441-02
Misc : 5.61G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : BE7Z9

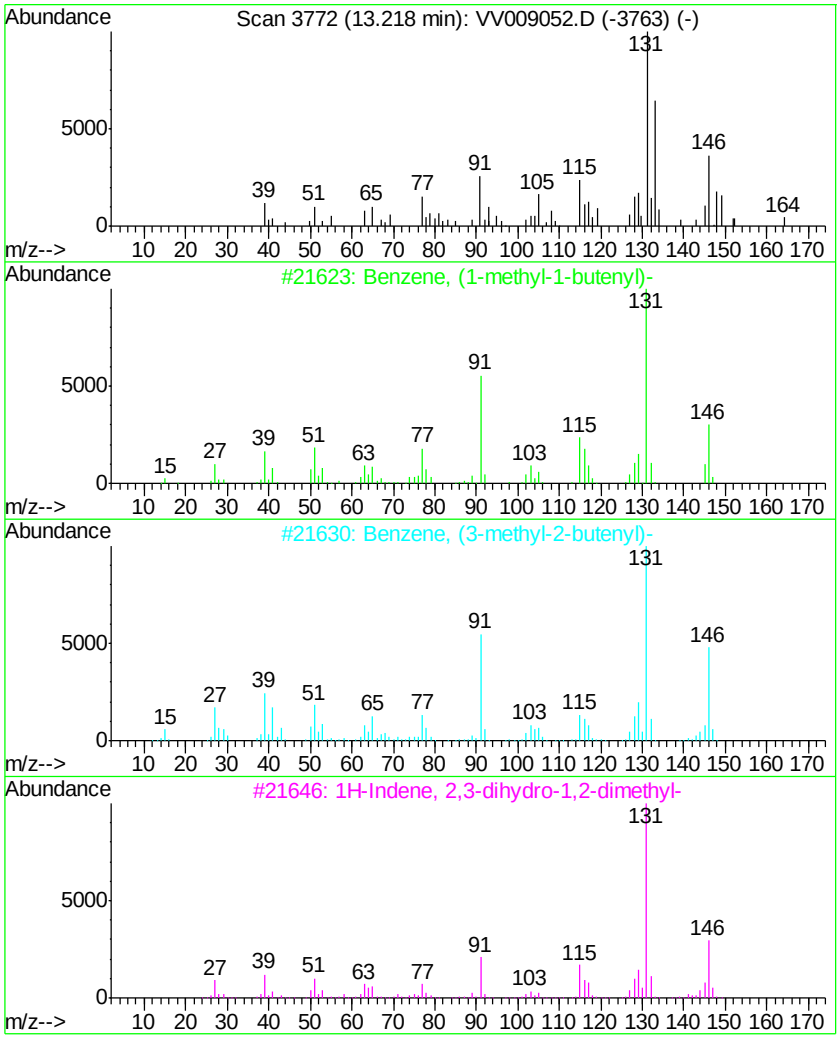
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis

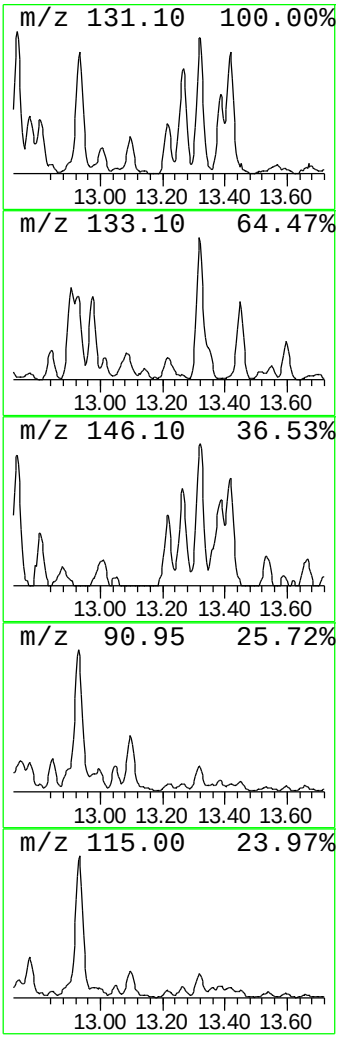
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 40 Benzene, (1-methyl-1-butenyl)- Concentration Rank 42

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.22	1.69 ug/L	41566	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (1-methyl-1-butenyl)-	146	C11H14	053172-84-2	83
2	Benzene, (3-methyl-2-butenyl)-	146	C11H14	004489-84-3	83
3	1H-Indene, 2,3-dihydro-1,2-dimet...	146	C11H14	017057-82-8	83
4	Benzene, (1,2-dimethyl-1-propenyl)-	146	C11H14	000769-57-3	83
5	Benzene, (1-methyl-1-butenyl)-	146	C11H14	053172-84-2	83





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV121918\
Data File : VV009052.D
Acq On : 19 Dec 2018 15:53
Operator : SY/MD
Sample : J6441-02
Misc : 5.61G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : BE7Z9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis

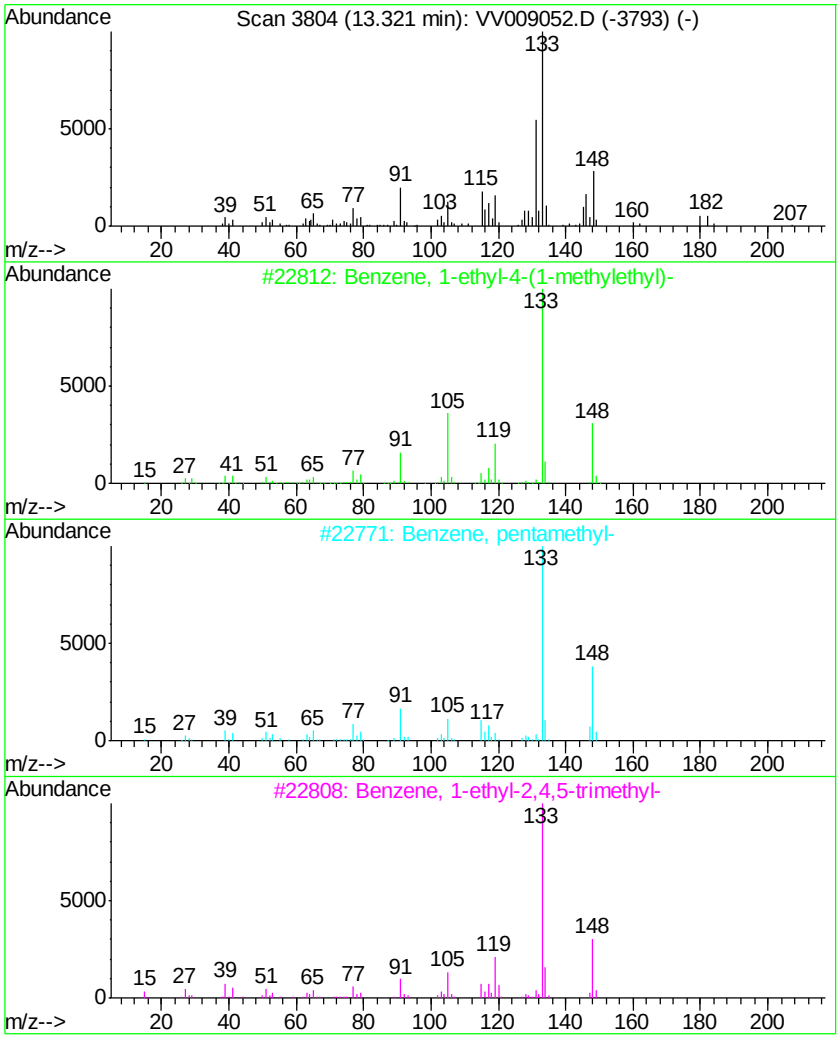
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

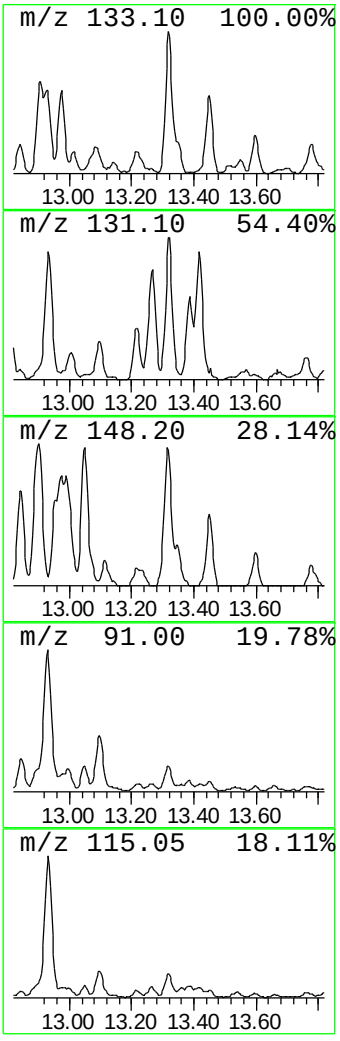
****

Peak Number 41 Benzene, 1-ethyl-4-(1-methy... Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.32	6.21 ug/L	152430	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-4-(1-methylethyl)-	148	C11H16	004218-48-8	58
2	Benzene, pentamethyl-	148	C11H16	000700-12-9	53
3	Benzene, 1-ethyl-2,4,5-trimethyl-	148	C11H16	017851-27-3	52
4	4-tert-Butyltoluene	148	C11H16	000098-51-1	49
5	3,4-Dimethylcumene	148	C11H16	1000370-34-1	49





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Data File : VV009052.D
Acq On : 19 Dec 2018 15:53
Operator : SY/MD
Sample : J6441-02
Misc : 5.61G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : BE7Z9

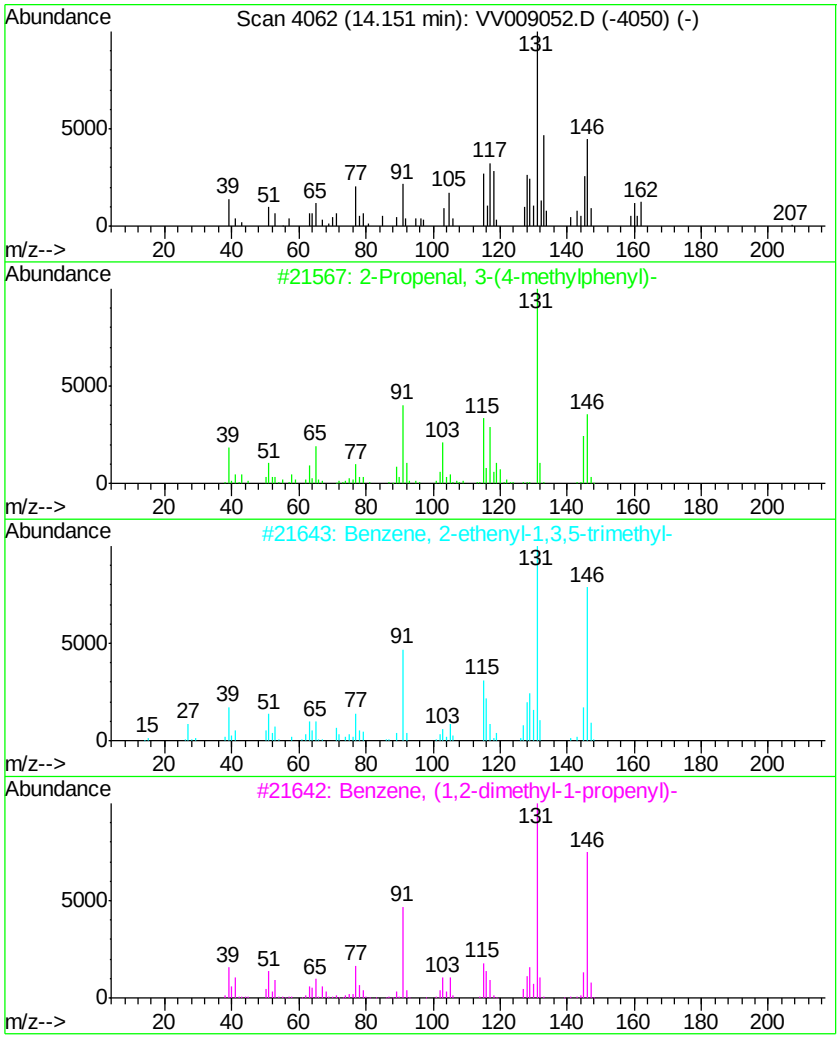
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis

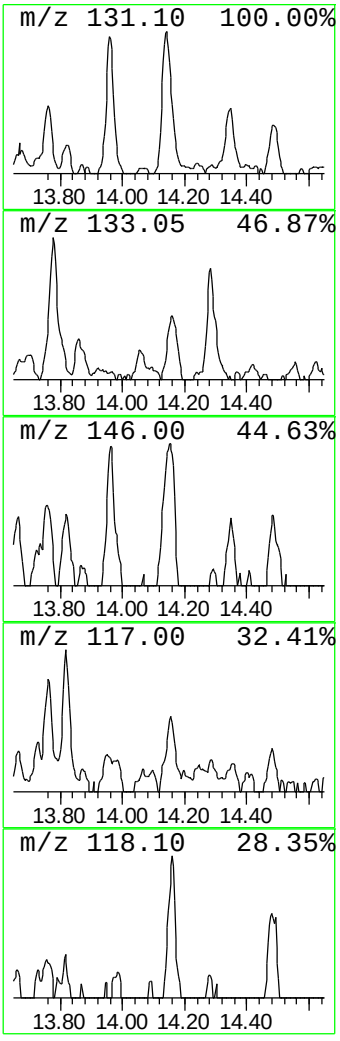
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 43 2-Propenal, 3-(4-methylphen... Concentration Rank 41

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.15	1.71 ug/L	42072	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propenal, 3-(4-methylphenyl)-	146	C10H10O	001504-75-2	64
2	Benzene, 2-ethenyl-1,3,5-trimethyl-	146	C11H14	000769-25-5	60
3	Benzene, (1,2-dimethyl-1-propenyl)-	146	C11H14	000769-57-3	60
4	Benzene, (3-methyl-2-butenyl)-	146	C11H14	004489-84-3	58
5	Benzene, (1,1-dimethyl-2-propenyl)-	146	C11H14	018321-36-3	55





Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV121918\
Data File : VV009052.D
Acq On : 19 Dec 2018 15:53
Operator : SY/MD
Sample : J6441-02
Misc : 5.61G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : BE7Z9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
(DEL) Alkane: Cyc...	7.31	1.6	ug/L	35918	2	8.90	553556	25.0
(DEL) Alkane: Cyc...	8.28	4.1	ug/L	90521	2	8.90	553556	25.0
(DEL) Alkane: Cyc...	8.33	5.9	ug/L	131093	2	8.90	553556	25.0
(DEL) Alkane: Cyc...	8.40	6.1	ug/L	135951	2	8.90	553556	25.0
(DEL) Alkane: Cyc...	8.64	9.5	ug/L	209485	2	8.90	553556	25.0
(DEL) Alkane: Str...	8.71	6.6	ug/L	146275	2	8.90	553556	25.0
(DEL) Alkane: Str...	8.83	6.3	ug/L	139241	2	8.90	553556	25.0
(DEL) Alkane: Str...	9.24	19.1	ug/L	421880	2	8.90	553556	25.0
Cyclohexene, 1-me...	9.36	5.6	ug/L	123739	2	8.90	553556	25.0
(DEL) Alkane: Cyc...	9.52	26.4	ug/L	585294	2	8.90	553556	25.0
(DEL) Alkane: Cyc...	9.72	5.0	ug/L	110568	2	8.90	553556	25.0
1H-Indene, octahy...	9.75	22.4	ug/L	495284	2	8.90	553556	25.0
(DEL) Alkane: Cyc...	9.84	27.4	ug/L	605944	2	8.90	553556	25.0
Benzene, propyl-	10.40	18.1	ug/L	445529	3	11.30	613815	25.0
Benzene, 1-ethyl-...	10.51	22.1	ug/L	541447	3	11.30	613815	25.0
(DEL) Alkane: Str...	10.92	6.1	ug/L	149378	3	11.30	613815	25.0
Benzene, 1,2,3-tr...	10.96	77.8	ug/L	1909100	3	11.30	613815	25.0
(DEL) Alkane: Cyc...	11.20	9.1	ug/L	224052	3	11.30	613815	25.0
p-Cymene	11.50	9.7	ug/L	237682	3	11.30	613815	25.0
Benzene, 1,2-diet...	11.59	43.3	ug/L	1062530	3	11.30	613815	25.0
Benzene, 1-methyl...	11.87	31.2	ug/L	766492	3	11.30	613815	25.0
Benzene, 2-ethyl-...	11.96	15.9	ug/L	391688	3	11.30	613815	25.0
Benzene, 2-ethyl-...	12.06	42.3	ug/L	1038810	3	11.30	613815	25.0
Indan, 1-methyl-	12.17	12.1	ug/L	296792	3	11.30	613815	25.0
Benzamide, 4-methyl-	12.30	9.9	ug/L	243815	3	11.30	613815	25.0
Benzene, 4-ethyl-...	12.36	17.6	ug/L	431043	3	11.30	613815	25.0
unknown-01	12.43	6.3	ug/L	153422	3	11.30	613815	25.0
Benzene, 1,2,3,5-...	12.46	23.4	ug/L	575416	3	11.30	613815	25.0
Benzene, 1,2,3,4-...	12.51	15.2	ug/L	372088	3	11.30	613815	25.0
3,4-Dimethylcumene	12.69	3.3	ug/L	80779	3	11.30	613815	25.0
2-Methyl-7-endo-v...	12.84	1.9	ug/L	47660	3	11.30	613815	25.0
Benzene, 1,2,4,5-...	12.93	33.7	ug/L	827240	3	11.30	613815	25.0
Benzene, 1-methyl...	13.05	4.1	ug/L	99791	3	11.30	613815	25.0
Naphthalene, 1,2,...	13.10	8.7	ug/L	213044	3	11.30	613815	25.0
Benzene, (1-methy...	13.22	1.7	ug/L	41566	3	11.30	613815	25.0
Benzene, 1-ethyl-...	13.32	6.2	ug/L	152430	3	11.30	613815	25.0
2-Propenal, 3-(4-...	14.15	1.7	ug/L	42072	3	11.30	613815	25.0