LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051419\
Data File : VU032011.D
Acq On : 14 May 2019 21:45
Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

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_U\METHOD\SOMULM051419WMA.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	1.396	88	95	106	rBV	632110	726232	0.53%	0.124%
2	1.672	174	181	196	rVV	458421	604658	0.44%	0.104%
3	1.942	256	265	281	rVB	382293	533105	0.39%	0.091%
4	2.267	352	366	376	rBV	953972	1537214	1.13%	0.263%
5	2.704	491	502	504	rVV2	312488	483018	0.35%	0.083%
6	2.740	505	513	521	rVV	909786	1839198	1.35%	0.315%
7	2.788	522	528	552	rVB3	585185	1382127	1.01%	0.237%
8	2.994	575	592	613	rVB	971412	2073557	1.52%	0.355%
9	3.299	668	687	711	rBV	1046445	2252457	1.65%	0.386%
10	3.550	736	765	782	rBV	475014	1111026	0.82%	0.190%
11	3.653	782	797	809	rBV2	318594	762418	0.56%	0.131%
12	3.727	809	820	832	rVV2	242421	564277	0.41%	0.097%
13	3.887	858	870	892	rVB3	234654	616726	0.45%	0.106%
14	4.090	912	933	950	rBV	6810517	18289227	13.42%	3.131%
15	4.170	950	958	981	rVB3	510112	1304257	0.96%	0.223%
16	4.643	1092	1105	1119	rBV	640042	1441332	1.06%	0.247%
17	4.990	1194	1213	1229	rBV2	9530326	23206954	17.03%	3.973%
18	5.215	1268	1283	1290	rBV	731042	1791918	1.31%	0.307%
19	5.334	1304	1320	1336	rVB2	1414541	3936202	2.89%	0.674%
20	5.476	1352	1364	1372	rBV2	1288765	2934151	2.15%	0.502%
21	5.617	1397	1408	1438	rVB2	1832937	4273712	3.14%	0.732%
22	5.778	1444	1458	1477	rVB4	309855	671551	0.49%	0.115%
23	5.881	1477	1490	1500	rBV	1338388	2654046	1.95%	0.454%
24	5.942	1500	1509	1532	rVB5	770719	2273785	1.67%	0.389%
25	6.212	1578	1593	1616	rBV3	640828	1493848	1.10%	0.256%
26	6.325	1616	1628	1637	rBV	936952	1810594	1.33%	0.310%
27	6.411	1637	1655	1672	rVB	14333244	30507657	22.39%	5.222%
28	6.636	1713	1725	1741	rVB	1455575	2725666	2.00%	0.467%
29	6.733	1745	1755	1767	rVB2	227644	477918	0.35%	0.082%
30	6.839	1767	1788	1800	rBV4	1791116	5654177	4.15%	0.968%
31	6.900	1800	1807	1831	rVB5	279472	709183	0.52%	0.121%
32	7.064	1831	1858	1870	rBV	3163078	6119393	4.49%	1.048%
33	7.222	1899	1907	1923	rVV2	566671	1250038	0.92%	0.214%
34	7.360	1937	1950	1959	rBV4	317895	694801	0.51%	0.119%

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051419\
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Acq On : 14 May 2019 21:45
Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

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_U\METHOD\SOMULM051419WMA.M
Title : VOC Analysis

35	7.424	1959	1970	1988	rVB	2076044	3950930	2.90%	0.676%
36	7.524	1989	2001	2006	rBV2	1490286	2695519	1.98%	0.461%
37	7.559	2006	2012	2025	rVB	2386237	4081896	3.00%	0.699%
38	7.707	2045	2058	2067	rBV4	997527	2201950	1.62%	0.377%
39	7.842	2090	2100	2111	rVB5	826377	1443017	1.06%	0.247%
40	7.913	2112	2122	2142	rVB	1198345	2229751	1.64%	0.382%
41	8.042	2143	2162	2169	rBV	904837	1766884	1.30%	0.302%
42	8.090	2169	2177	2210	rVB	1344310	2742028	2.01%	0.469%
43	8.305	2236	2244	2258	rBV	1117522	1987214	1.46%	0.340%
44	8.485	2288	2300	2308	rBV5	548213	1020102	0.75%	0.175%
45	8.540	2308	2317	2333	rBV2	1392495	2949728	2.16%	0.505%
46	8.755	2372	2384	2396	rBV2	395927	709787	0.52%	0.122%
47	8.868	2404	2419	2429	rBV5	297752	703027	0.52%	0.120%
48	9.009	2452	2463	2476	rVB5	556225	1232232	0.90%	0.211%
49	9.087	2477	2487	2496	rBV	1899689	3215266	2.36%	0.550%
50	9.177	2505	2515	2528	rVB4	1079664	2416370	1.77%	0.414%
51	9.247	2528	2537	2559	rVB	1281373	2920553	2.14%	0.500%
52	9.369	2560	2575	2593	rBV	2623585	5091470	3.74%	0.872%
53	9.488	2604	2612	2623	rVB3	365158	606083	0.44%	0.104%
54	9.566	2627	2636	2664	rVB3	283260	636755	0.47%	0.109%
55	9.720	2667	2684	2686	rBV3	308654	596402	0.44%	0.102%
56	9.948	2737	2755	2769	rBV5	492441	1129337	0.83%	0.193%
57	10.045	2776	2785	2790	rBV6	271991	493938	0.36%	0.085%
58	10.160	2810	2821	2844	rVV	12958605	20605117	15.12%	3.527%
59	10.369	2876	2886	2894	rBV4	228268	429785	0.32%	0.074%
60	10.427	2895	2904	2917	rVB	1361749	2233683	1.64%	0.382%
61	10.585	2941	2953	2976	rVB2	27630270	43159505	31.67%	7.388%
62	10.701	2976	2989	2996	rBV2	320679	681699	0.50%	0.117%
63	10.768	3005	3010	3025	rVB2	316856	499019	0.37%	0.085%
64	10.967	3061	3072	3094	rVB	2303403	3797780	2.79%	0.650%
65	11.144	3120	3127	3139	rVB	259755	387325	0.28%	0.066%
66	11.286	3159	3171	3176	rBV	1085933	1751386	1.29%	0.300%
67	11.318	3176	3181	3196	rVB	1326963	2053556	1.51%	0.352%
68	11.479	3221	3231	3249	rVV	2186053	3515533	2.58%	0.602%
69	11.566	3249	3258	3268	rVV	1067797	1581813	1.16%	0.271%
70	11.688	3286	3296	3305	rVB	502593	781684	0.57%	0.134%
71	11.768	3305	3321	3338	rBV6	79250344	136277142	100.00%	23.329%

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051419\
Data File : VU032011.D
Acq On : 14 May 2019 21:45
Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

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_U\METHOD\SOMULM051419WMA.M
Title : VOC Analysis

72	11.858	3338	3349	3375	rVV4	4013084	8710104	6.39%	1.491%
73	11.977	3376	3386	3398	rVB	1239139	1887608	1.39%	0.323%
74	12.051	3399	3409	3419	rBV	369271	575144	0.42%	0.098%
75	12.141	3429	3437	3453	rVB	349742	542854	0.40%	0.093%
76	12.247	3454	3470	3477	rBV	13610457	20968012	15.39%	3.589%
77	12.279	3477	3480	3491	rVB	4746404	6036636	4.43%	1.033%
78	12.350	3491	3502	3523	rBV	17281848	29018210	21.29%	4.967%
79	12.533	3551	3559	3573	rVB	547028	876882	0.64%	0.150%
80	12.646	3575	3594	3605	rBV	8056937	12360653	9.07%	2.116%
81	12.781	3627	3636	3645	rBV2	754604	1183294	0.87%	0.203%
82	12.919	3671	3679	3682	rVV	535780	802666	0.59%	0.137%
83	12.961	3682	3692	3710	rVB	11833775	18669320	13.70%	3.196%
84	13.119	3723	3741	3756	rBV2	25766902	40851149	29.98%	6.993%
85	13.231	3770	3776	3783	rBV	346263	466689	0.34%	0.080%
86	13.286	3783	3793	3811	rVB2	2465158	4115382	3.02%	0.704%
87	13.401	3820	3829	3835	rBV2	658170	985427	0.72%	0.169%
88	13.450	3835	3844	3853	rVV	1855067	2975905	2.18%	0.509%
89	13.504	3853	3861	3870	rVV2	1712283	2468523	1.81%	0.423%
90	13.572	3875	3882	3886	rVV	1011441	1602244	1.18%	0.274%
91	13.604	3886	3892	3916	rVB2	2038689	3759573	2.76%	0.644%
92	13.736	3917	3933	3943	rBV	2482532	4073413	2.99%	0.697%
93	13.948	3984	3999	4010	rBV4	535134	1035037	0.76%	0.177%
94	14.006	4010	4017	4028	rVB2	531239	800183	0.59%	0.137%
95	14.147	4050	4061	4076	rBV	878379	1442541	1.06%	0.247%
96	14.327	4107	4117	4132	rBV2	792045	1708482	1.25%	0.292%
97	14.469	4153	4161	4172	rVV4	281037	557507	0.41%	0.095%
98	14.530	4172	4180	4196	rVB3	569487	989380	0.73%	0.169%
99	14.871	4275	4286	4313	rVV	8746416	13964838	10.25%	2.391%
100	15.054	4331	4343	4359	rBV	4656153	7455512	5.47%	1.276%

Sum of corrected areas: 584164857

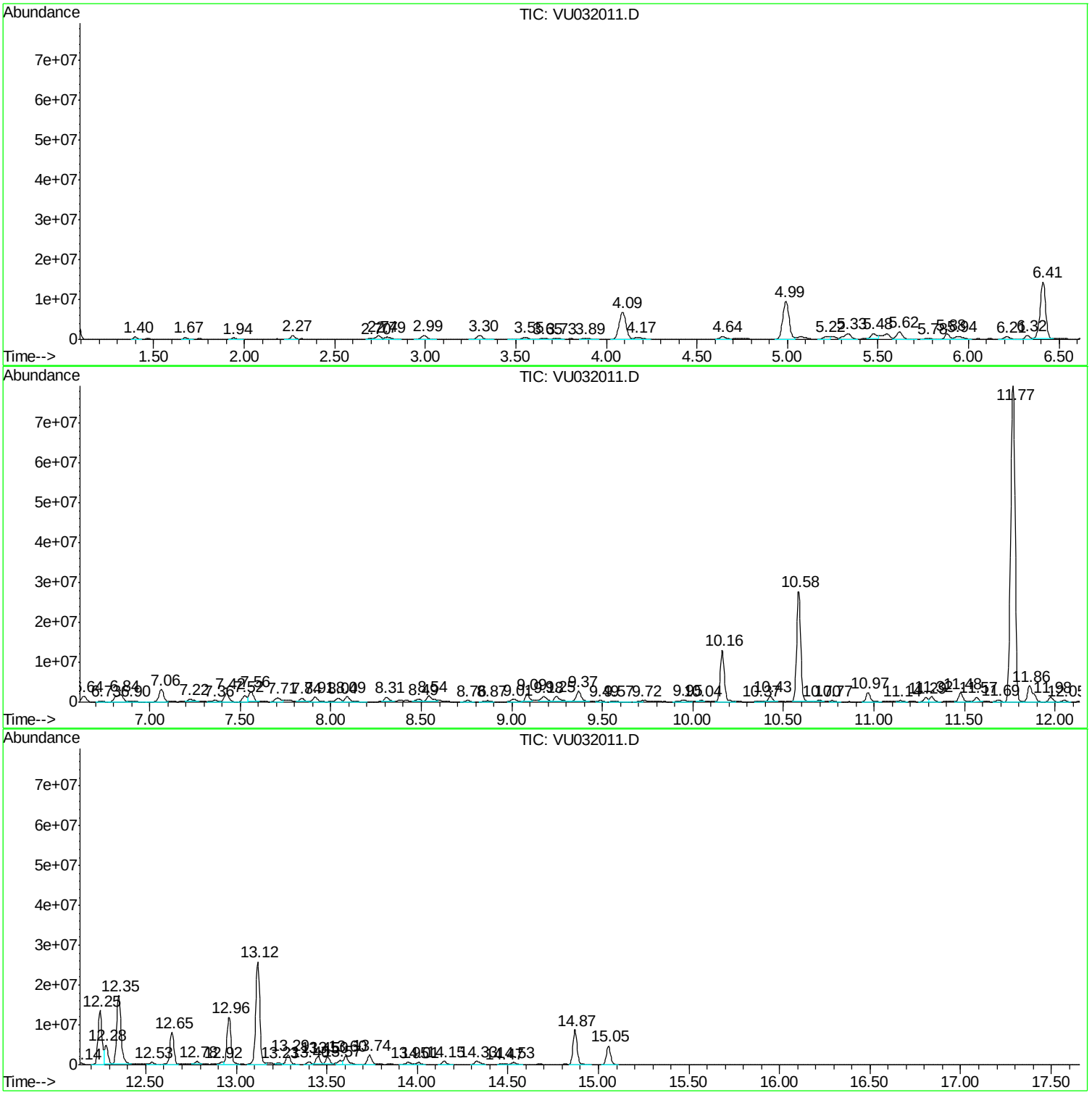
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU051419\
Data File : VU032011.D
Acq On : 14 May 2019 21:45
Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

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



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051419\
Data File : VU032011.D
Acq On : 14 May 2019 21:45
Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

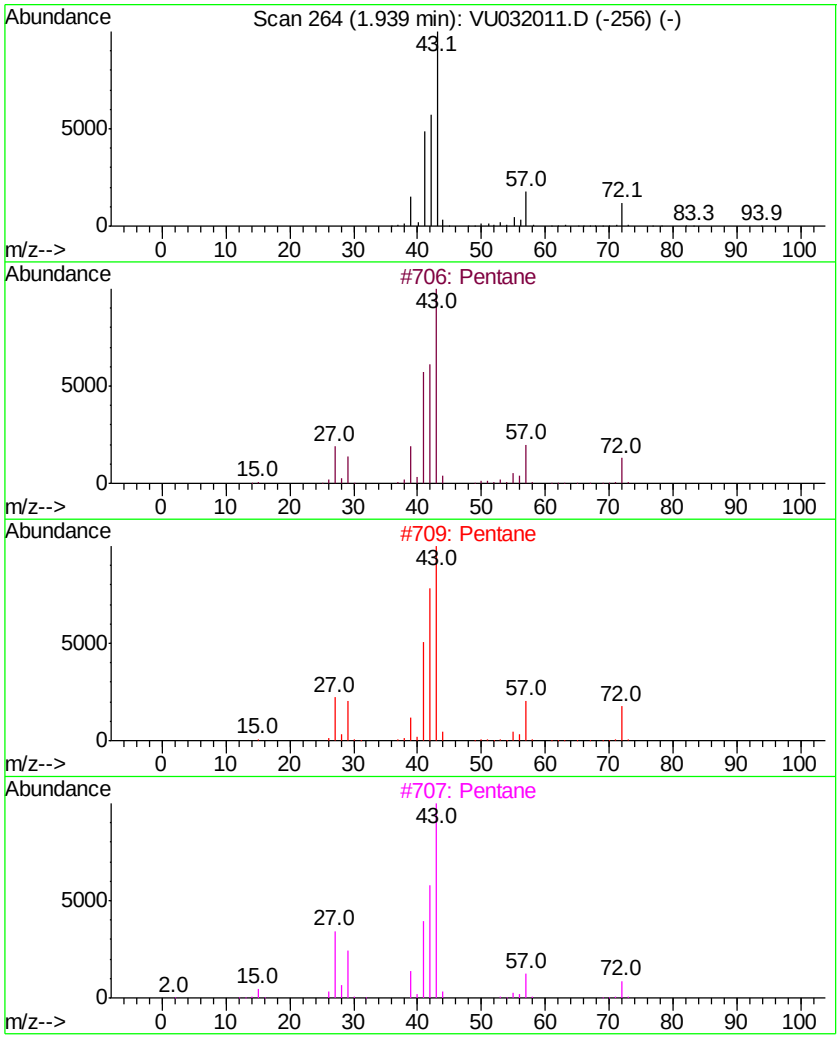
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

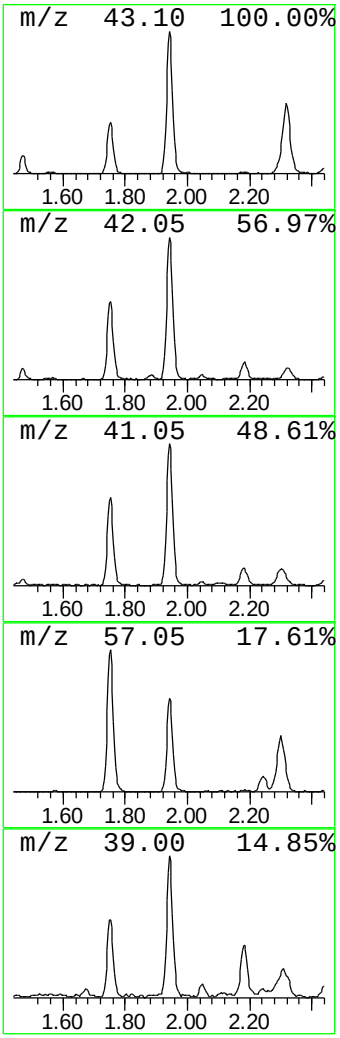
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 64

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.94	10.04 ug/L	533105	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane	72	C5H12	000109-66-0	91
2	Pentane	72	C5H12	000109-66-0	91
3	Pentane	72	C5H12	000109-66-0	90
4	Pentane	72	C5H12	000109-66-0	86
5	Butane, 2-methyl-	72	C5H12	000078-78-4	53





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU051419\
Data File : VU032011.D
Acq On : 14 May 2019 21:45
Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

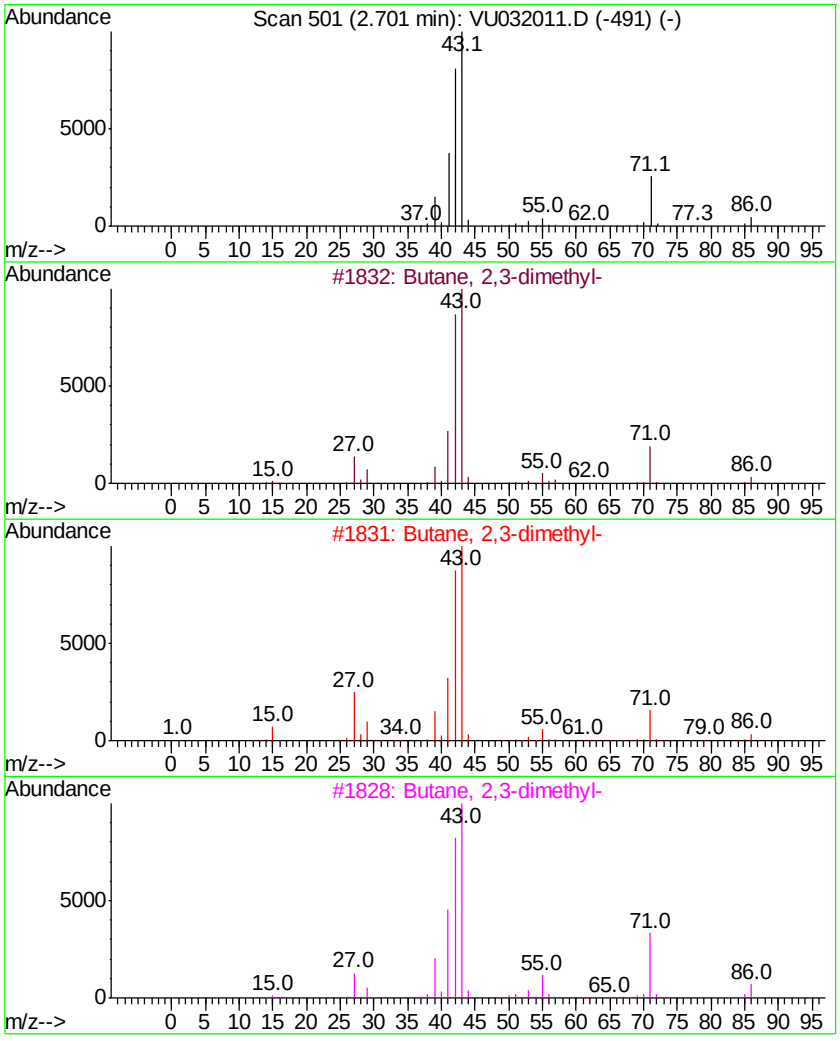
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

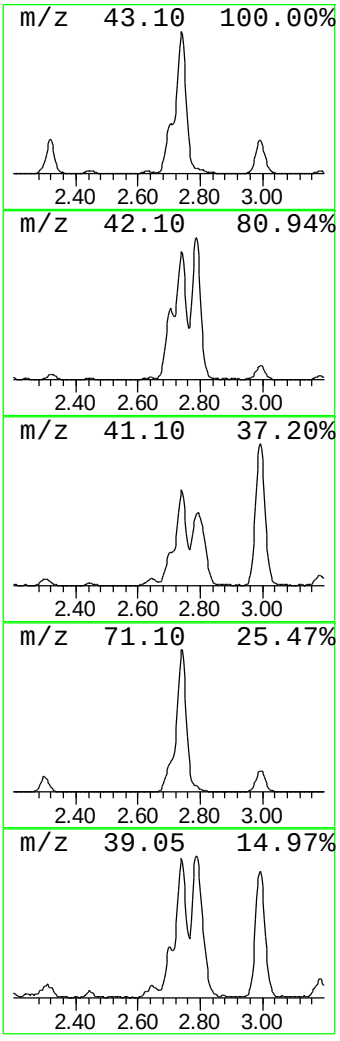
****

Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 69

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.70	9.10 ug/L	483018	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	90
2	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	80
3	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	78
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	50
5	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	39





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU051419\
Data File : VU032011.D
Acq On : 14 May 2019 21:45
Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

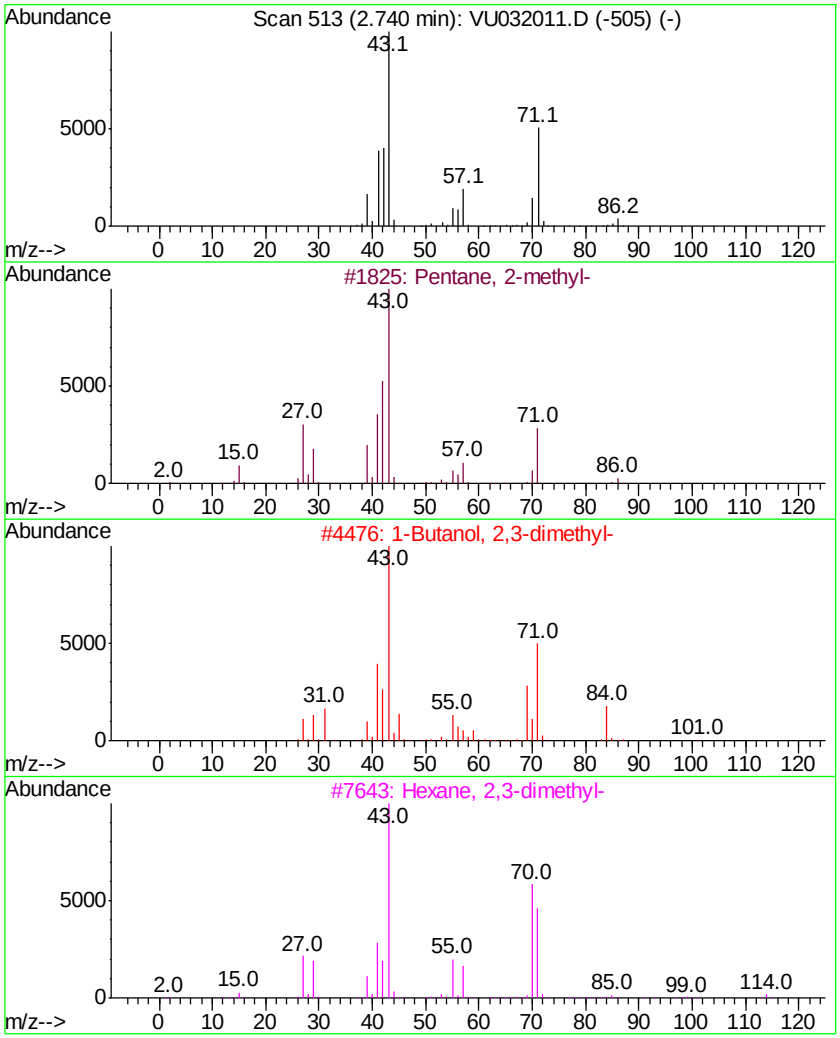
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

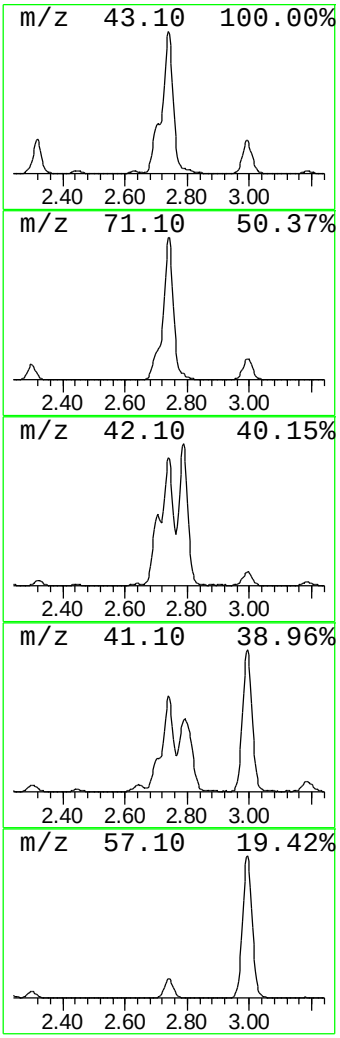
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 31

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.74	34.65 ug/L	1839200	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	59
2	1-Butanol, 2,3-dimethyl-	102	C6H14O	019550-30-2	45
3	Hexane, 2,3-dimethyl-	114	C8H18	000584-94-1	38
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	38
5	Pentane, 3,3-dimethyl-	100	C7H16	000562-49-2	38





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051419\
Data File : VU032011.D
Acq On : 14 May 2019 21:45
Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

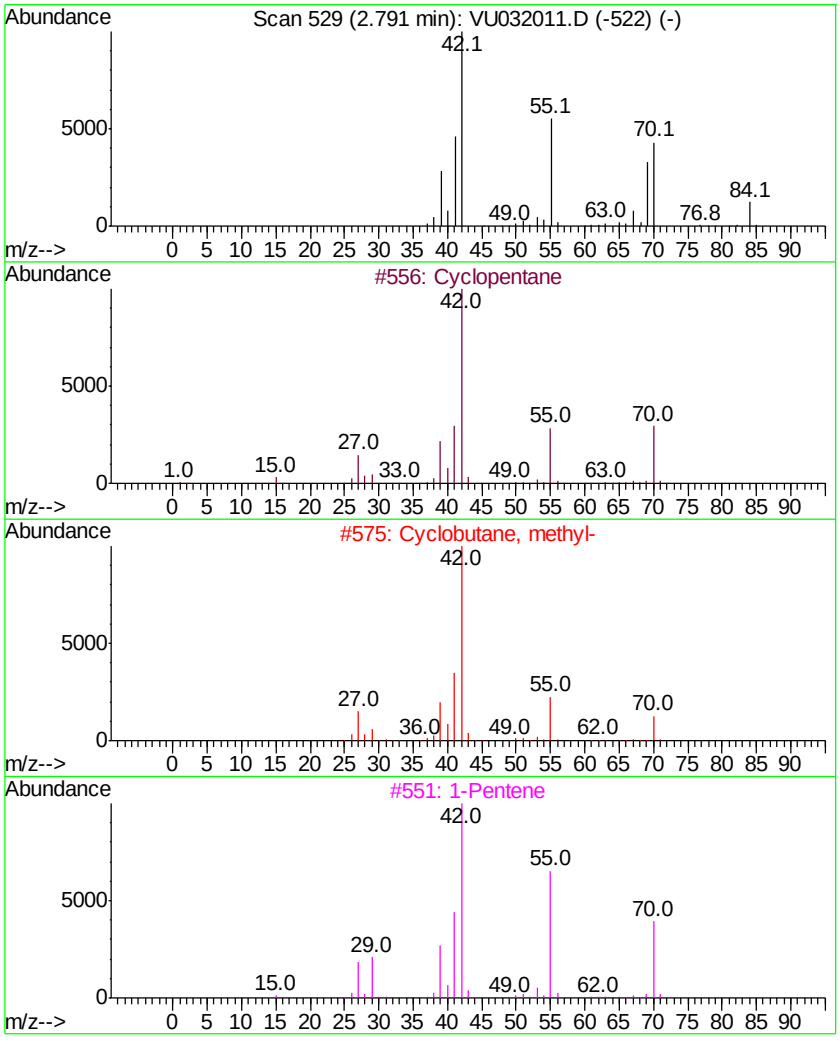
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

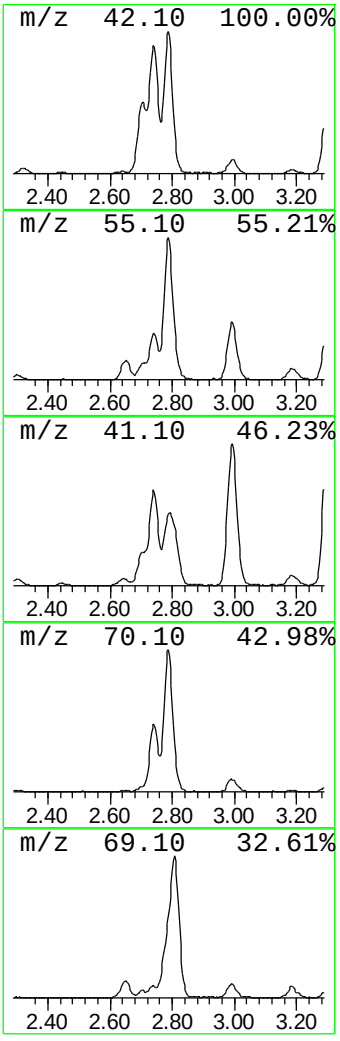
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 (DEL) Alkane: Cyclic2.79 Concentration Rank 37

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.79	26.04 ug/L	1382130	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane	70	C5H10	000287-92-3	72
2	Cyclobutane, methyl-	70	C5H10	000598-61-8	64
3	1-Pentene	70	C5H10	000109-67-1	50
4	2-Pentene, (E)-	70	C5H10	000646-04-8	43
5	2-Pentene	70	C5H10	000109-68-2	38





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU051419\
Data File : VU032011.D
Acq On : 14 May 2019 21:45
Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

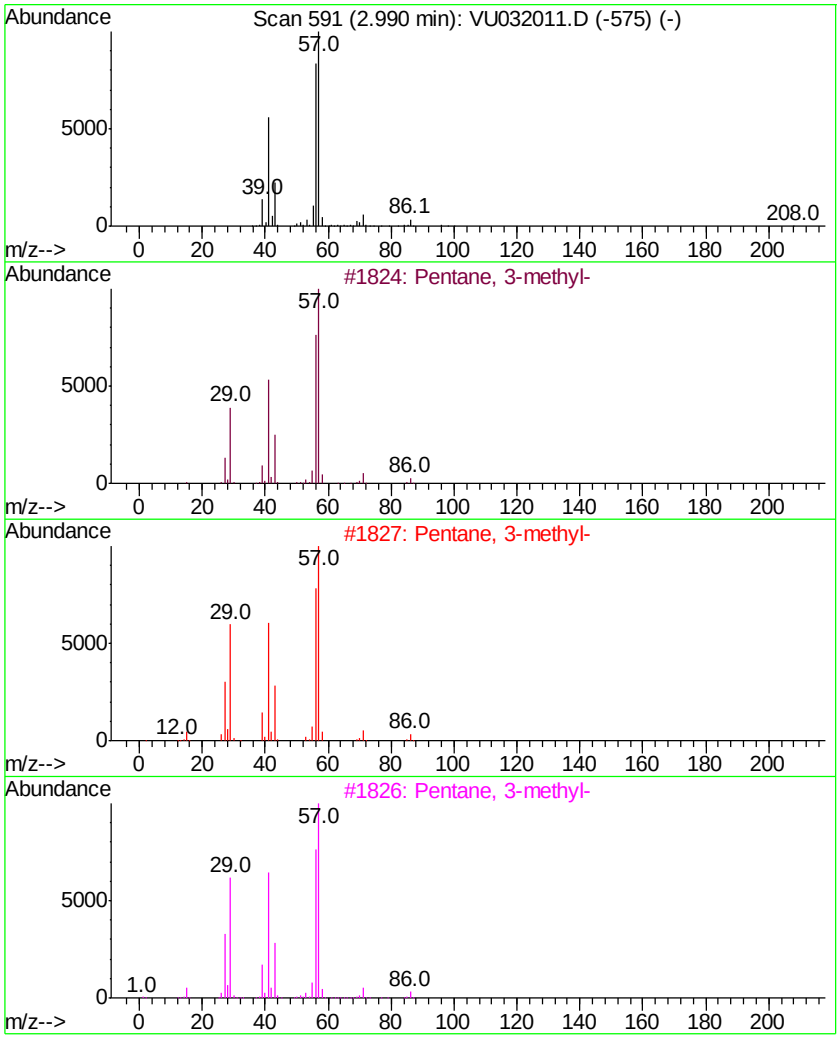
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

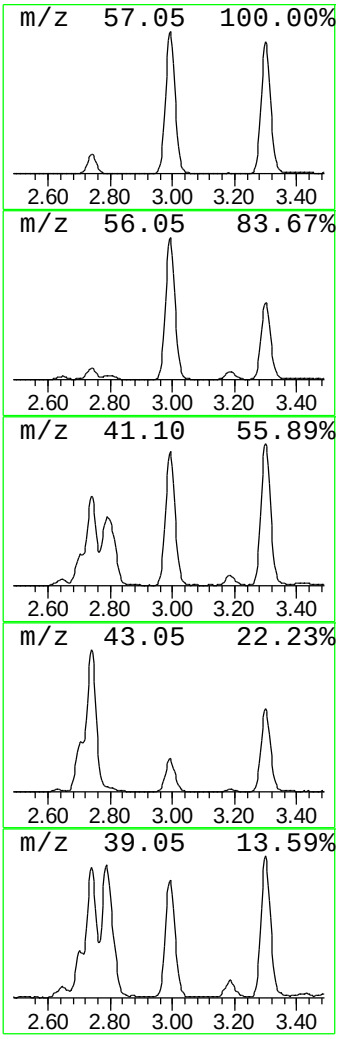
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.99	39.06 ug/L	2073560	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
4	Hexane, 2,2,3-trimethyl-	128	C9H20	016747-25-4	78
5	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	78





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Data File : VU032011.D
Acq On : 14 May 2019 21:45
Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

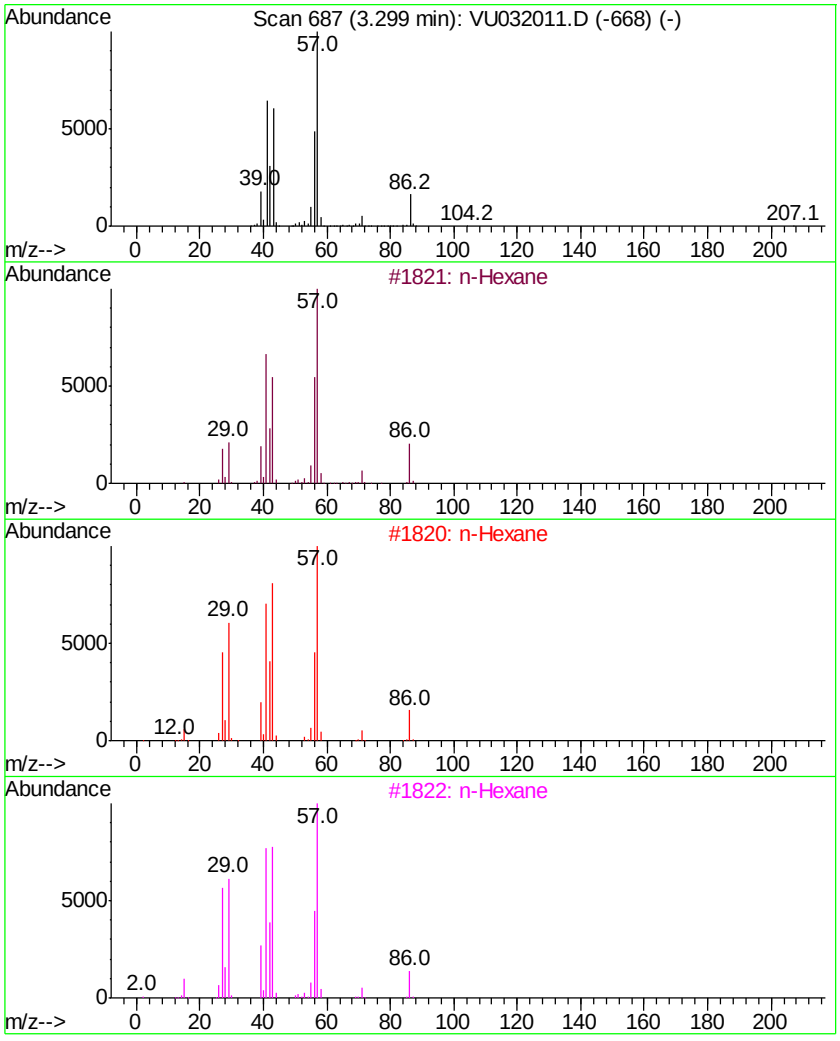
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

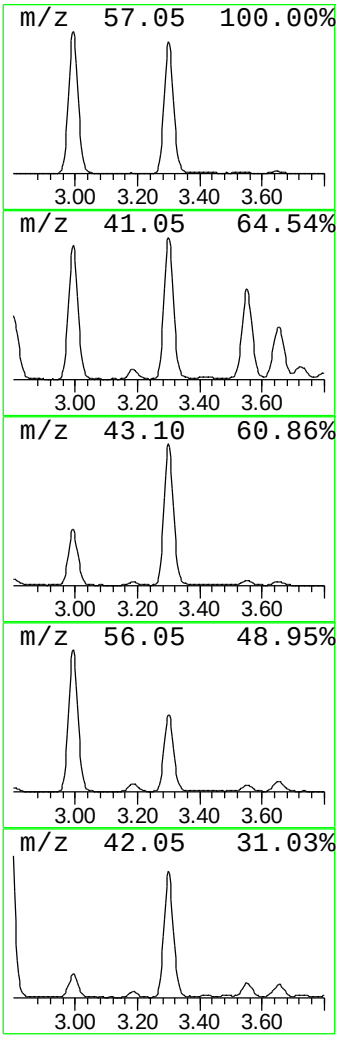
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 (DEL) Alkane: Straight-Chai... Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.30	42.43 ug/L	2252460	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexane	86	C6H14	000110-54-3	94
2	n-Hexane	86	C6H14	000110-54-3	91
3	n-Hexane	86	C6H14	000110-54-3	91
4	Pentane, 2,2,3,4-tetramethyl-	128	C9H20	001186-53-4	50
5	1-Pentene, 4-methyl-	84	C6H12	000691-37-2	43





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Acq On : 14 May 2019 21:45
Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

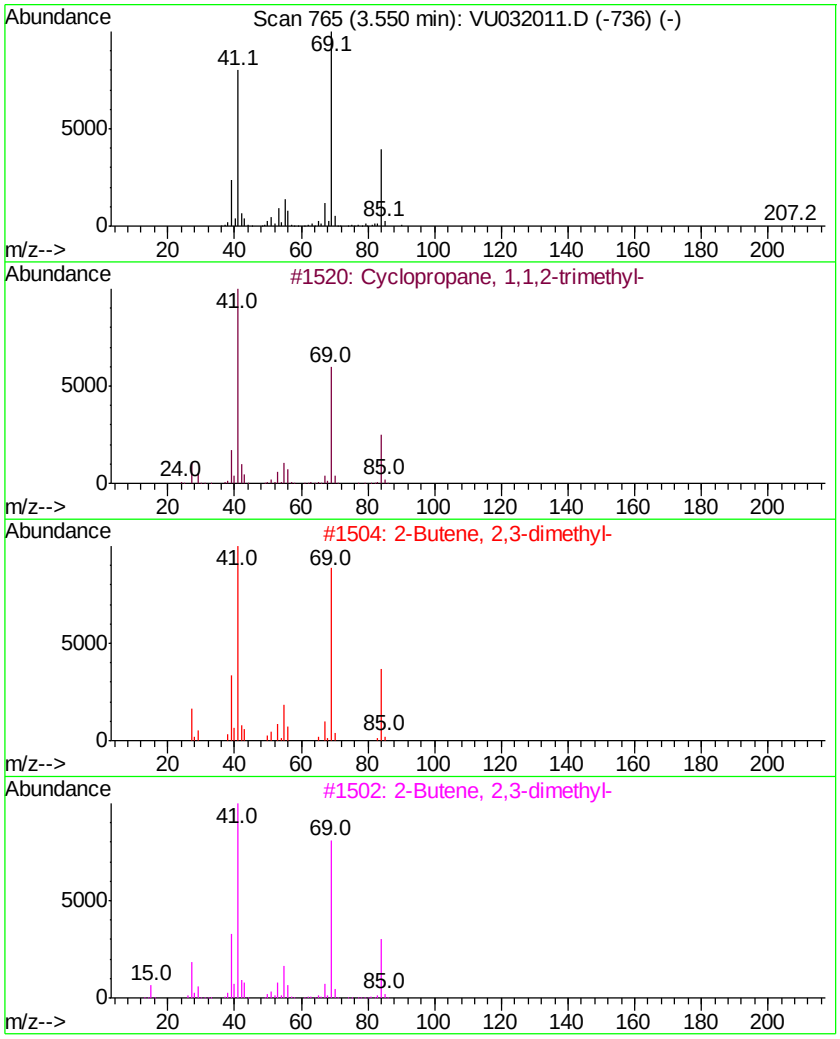
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

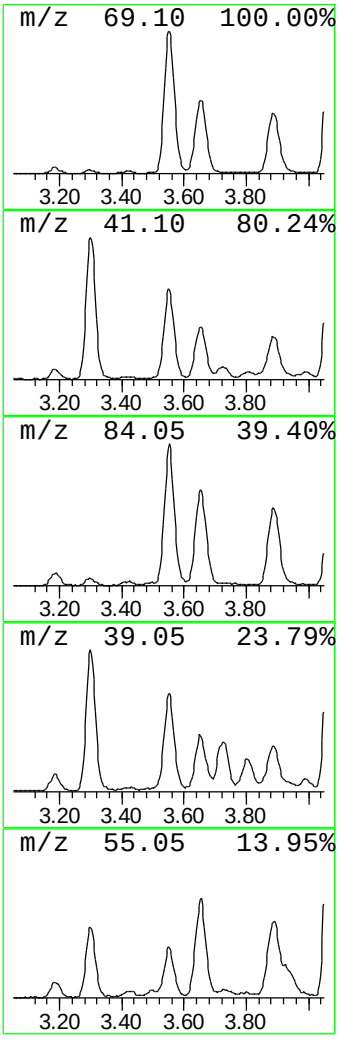
****

Peak Number 7 (DEL) Alkane: Cyclic3.55 Concentration Rank 43

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.55	20.93 ug/L	1111030	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopropane, 1,1,2-trimethyl-	84	C6H12	004127-45-1	91
2	2-Butene, 2,3-dimethyl-	84	C6H12	000563-79-1	91
3	2-Butene, 2,3-dimethyl-	84	C6H12	000563-79-1	91
4	2-Butene, 2,3-dimethyl-	84	C6H12	000563-79-1	91
5	2-Pentene, 2-methyl-	84	C6H12	000625-27-4	91





Library Search Compound Report

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Data File : VU032011.D
Acq On : 14 May 2019 21:45
Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

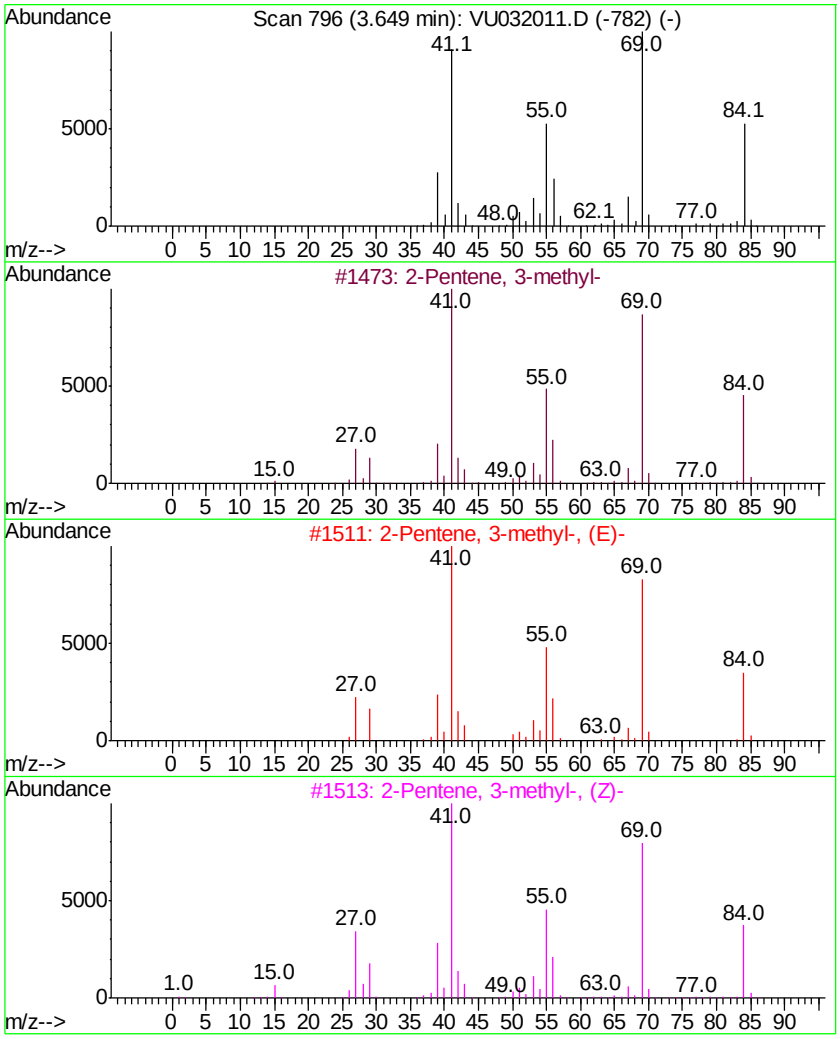
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

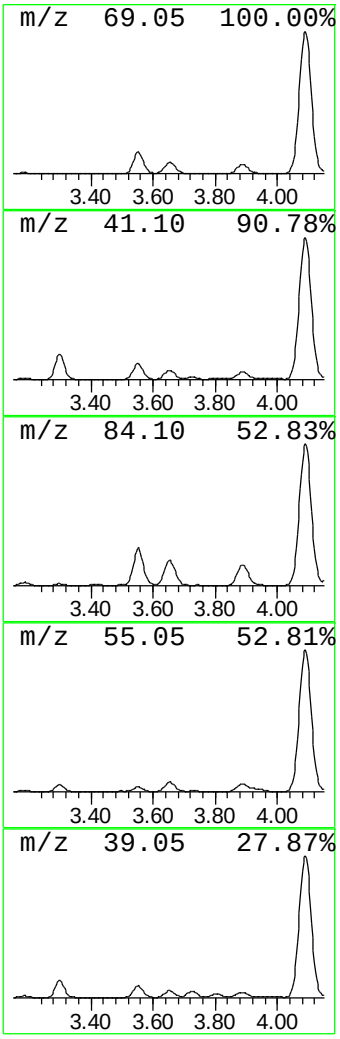
****

Peak Number 8 (DEL) Alkane: Cyclic3.65 Concentration Rank 50

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.65	14.36 ug/L	762418	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentene, 3-methyl-	84	C6H12	000922-61-2	94
2	2-Pentene, 3-methyl-, (E)-	84	C6H12	000616-12-6	94
3	2-Pentene, 3-methyl-, (Z)-	84	C6H12	000922-62-3	94
4	2-Pentene, 3-methyl-, (E)-	84	C6H12	000616-12-6	91
5	2-Pentene, 3-methyl-, (E)-	84	C6H12	000616-12-6	91





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Data File : VU032011.D
Acq On : 14 May 2019 21:45
Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

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

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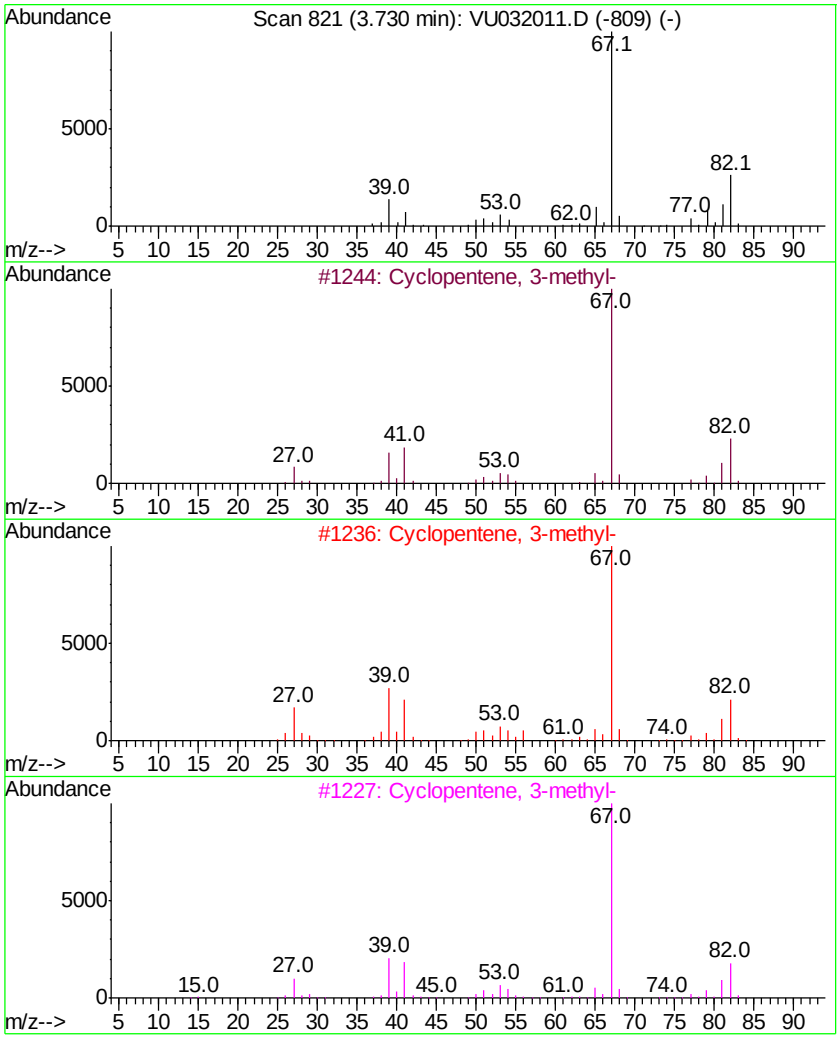
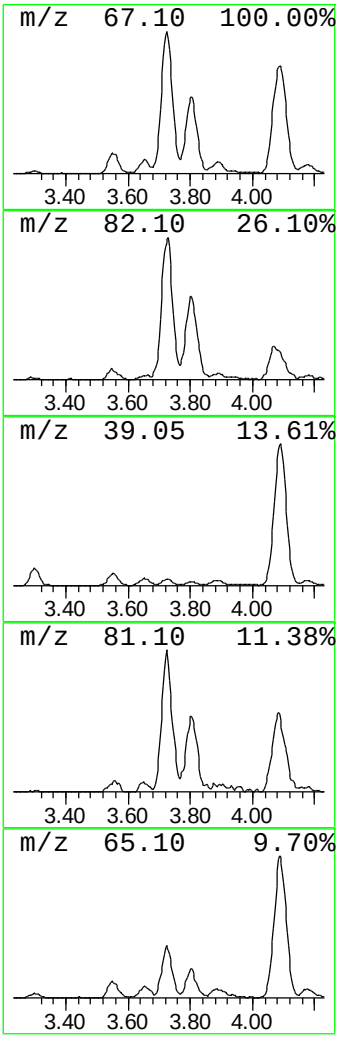
Peak Number 9 Cyclopentene, 3-methyl- Concentration Rank 63

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.73	10.63 ug/L	564277	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentene, 3-methyl-	82	C6H10	001120-62-3	90
2	Cyclopentene, 3-methyl-	82	C6H10	001120-62-3	90
3	Cyclopentene, 3-methyl-	82	C6H10	001120-62-3	90
4	Cyclopentene, 1-methyl-	82	C6H10	000693-89-0	87
5	Cyclopentene, 4-methyl-	82	C6H10	001759-81-5	87





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Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

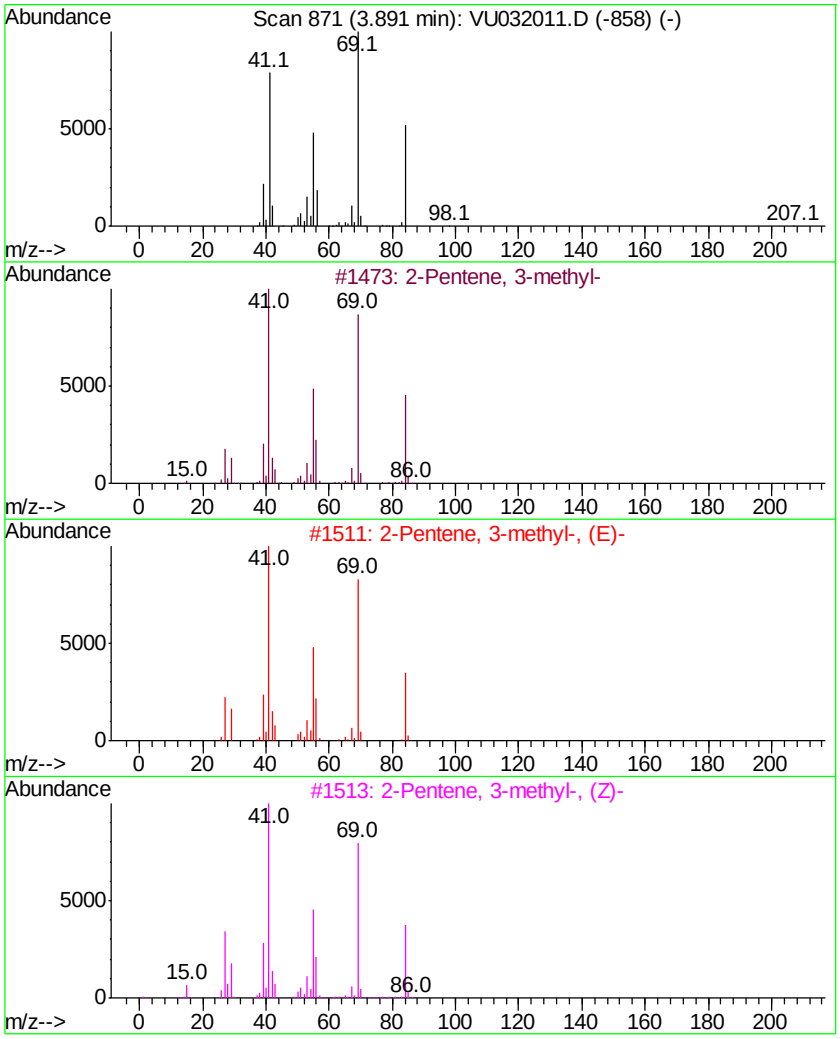
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

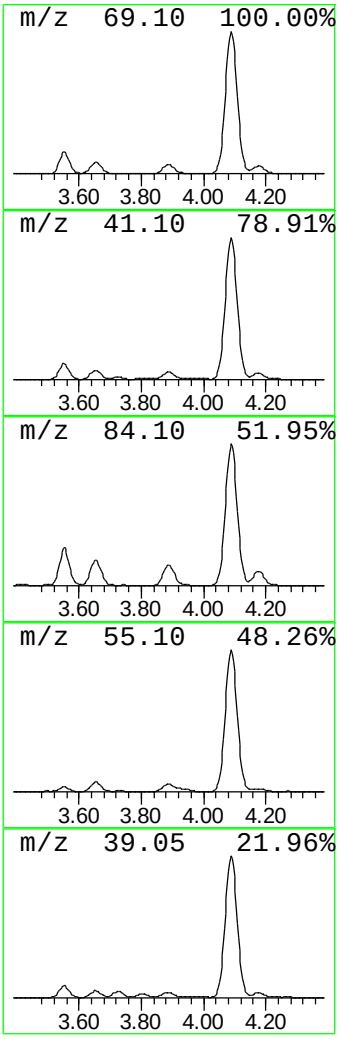
****

Peak Number 10 (DEL) Alkane: Cyclic3.89 Concentration Rank 57

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.89	11.62 ug/L	616726	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentene, 3-methyl-	84	C6H12	000922-61-2	94
2	2-Pentene, 3-methyl-, (E)-	84	C6H12	000616-12-6	91
3	2-Pentene, 3-methyl-, (Z)-	84	C6H12	000922-62-3	91
4	2-Pentene, 3-methyl-, (E)-	84	C6H12	000616-12-6	91
5	Cyclopropane, 1,2,3-trimethyl-	84	C6H12	042984-19-0	91





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Acq On : 14 May 2019 21:45
Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

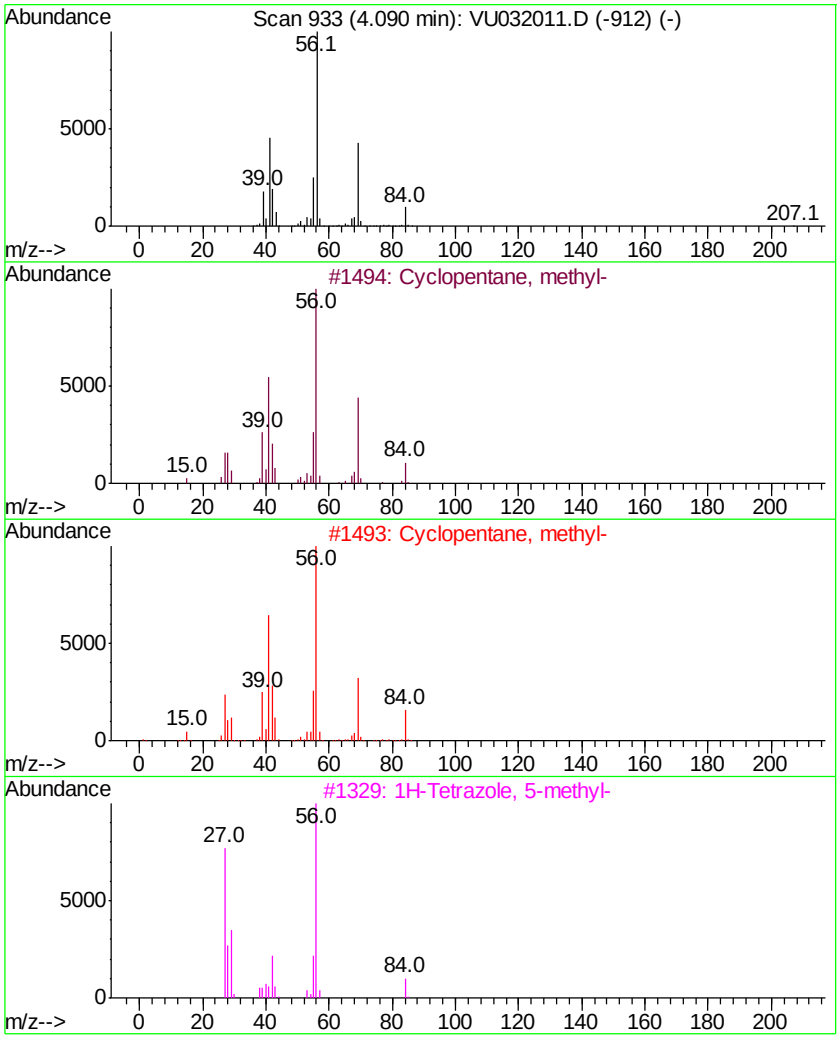
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

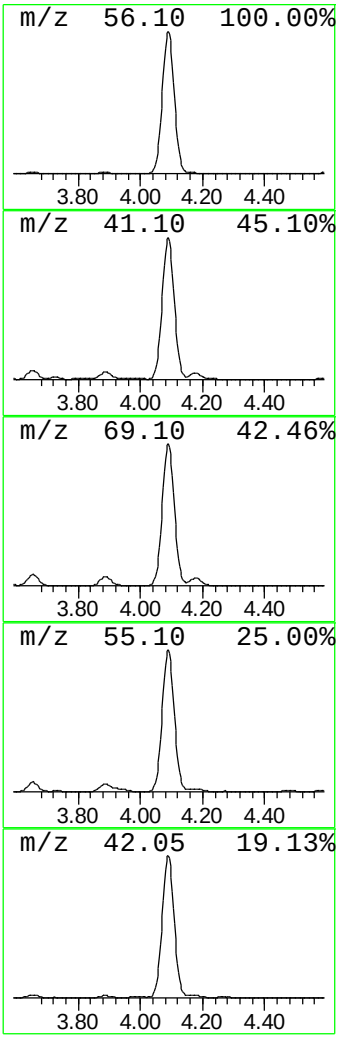
****

Peak Number 11 (DEL) Alkane: Cyclic4.09 Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.09	344.55 ug/L	18289200	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	94
2	Cyclopentane, methyl-	84	C6H12	000096-37-7	90
3	1H-Tetrazole, 5-methyl-	84	C2H4N4	004076-36-2	80
4	Cyclohexane	84	C6H12	000110-82-7	78
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	78





Library Search Compound Report

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Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

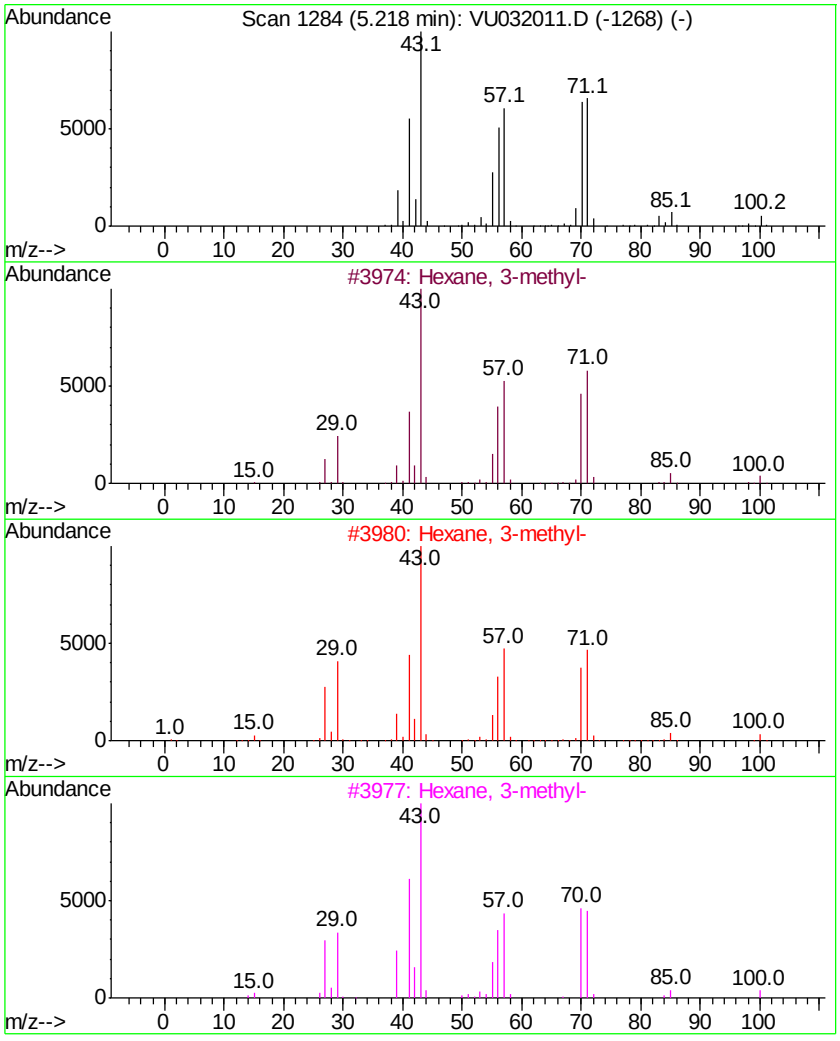
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

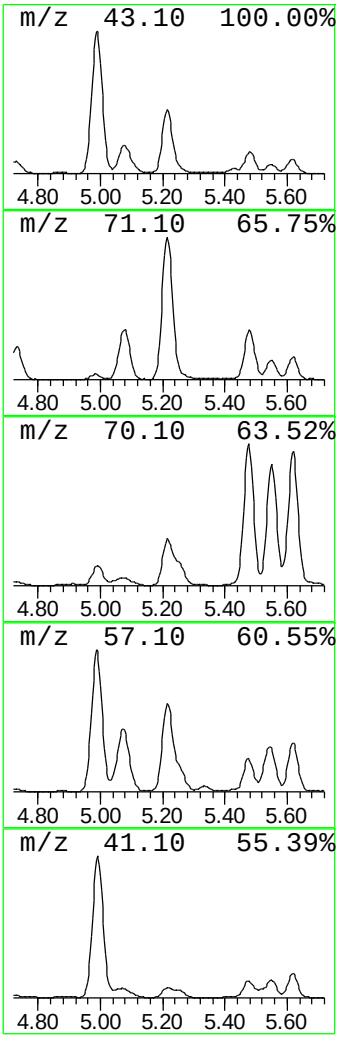
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 12 (DEL) Alkane: Straight-Chai... Concentration Rank 33

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.22	33.76 ug/L	1791920	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 3-methyl-	100	C7H16	000589-34-4	91
2	Hexane, 3-methyl-	100	C7H16	000589-34-4	87
3	Hexane, 3-methyl-	100	C7H16	000589-34-4	74
4	Heptane, 3,4-dimethyl-	128	C9H20	000922-28-1	72
5	Heptane, 3,4-dimethyl-	128	C9H20	000922-28-1	72





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Acq On : 14 May 2019 21:45
Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

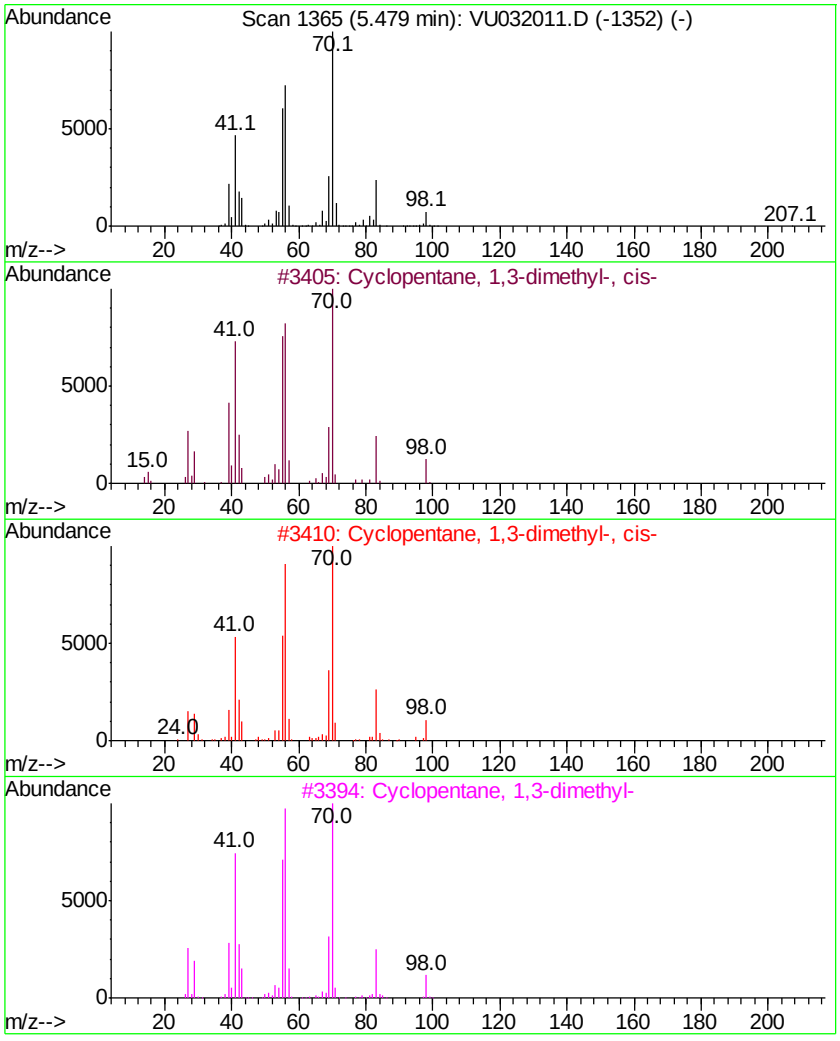
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

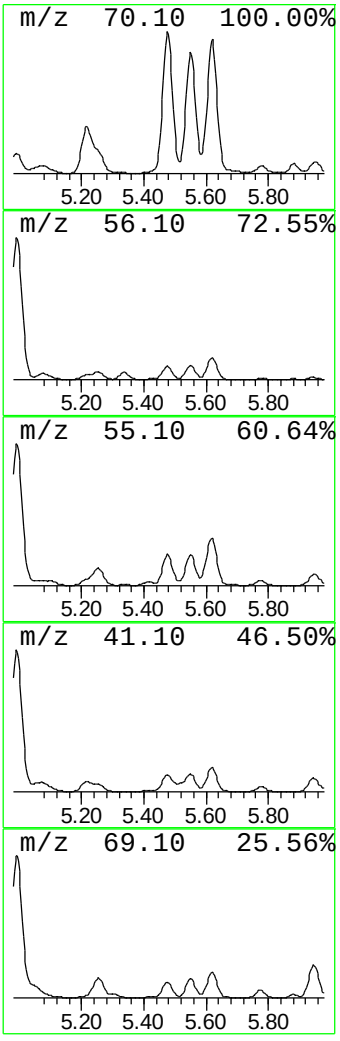
****

Peak Number 13 (DEL) Alkane: Cyclic5.48 Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.48	55.28 ug/L	2934150	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,3-dimethyl-, cis-	98	C7H14	002532-58-3	91
2	Cyclopentane, 1,3-dimethyl-, cis-	98	C7H14	002532-58-3	90
3	Cyclopentane, 1,3-dimethyl-	98	C7H14	002453-00-1	70
4	Cyclopentane, 1,3-dimethyl-	98	C7H14	002453-00-1	64
5	Cyclopentane, 1,2-dimethyl-, cis-	98	C7H14	001192-18-3	62





Library Search Compound Report

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Data File : VU032011.D
Acq On : 14 May 2019 21:45
Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

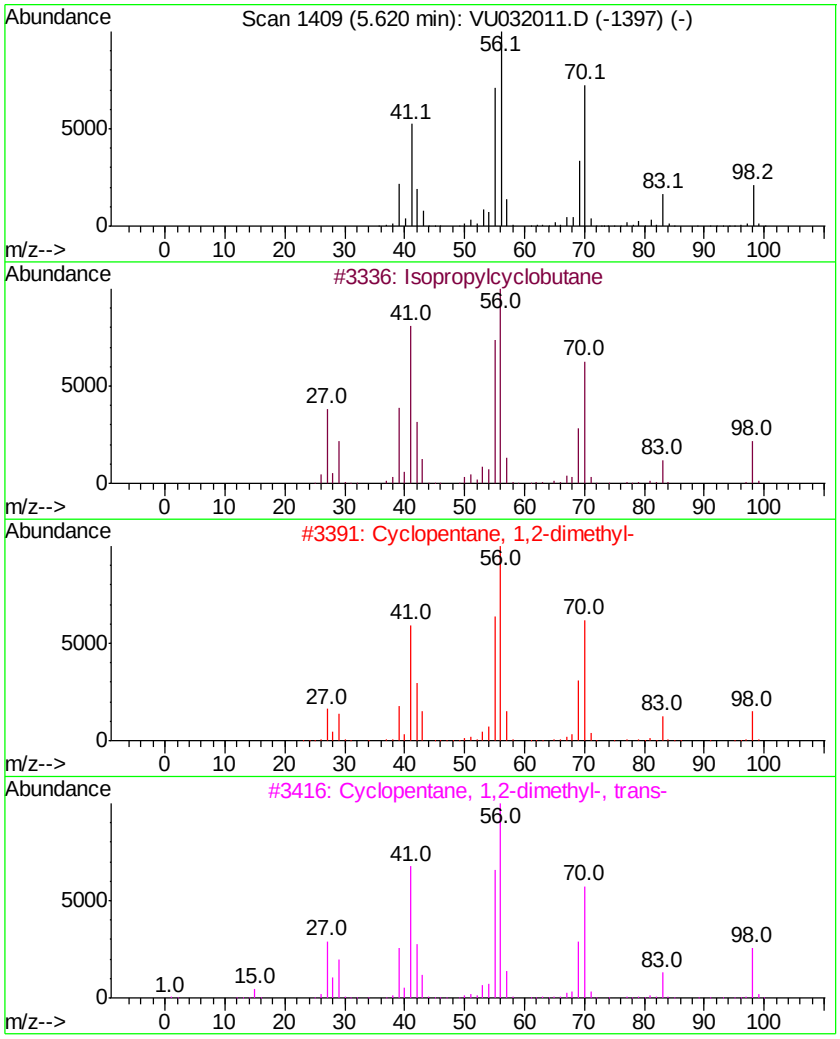
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

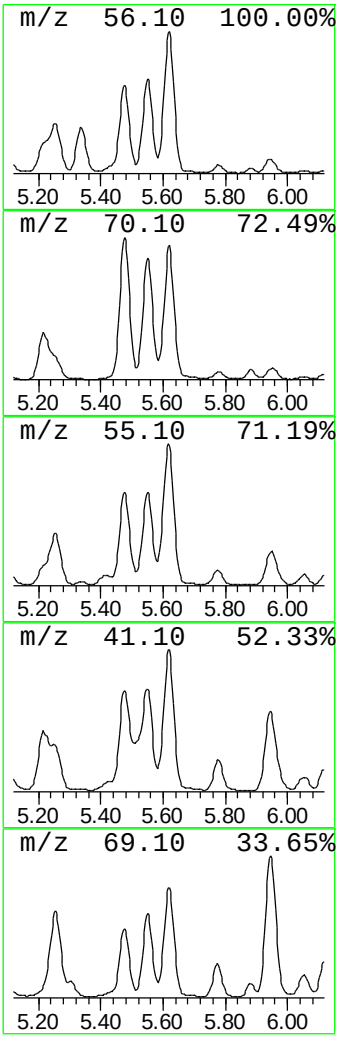
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.62	80.51 ug/L	4273710	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Isopropylcyclobutane	98	C7H14	000872-56-0	94
2	Cyclopentane, 1,2-dimethyl-	98	C7H14	002452-99-5	91
3	Cyclopentane, 1,2-dimethyl-, trans-	98	C7H14	000822-50-4	91
4	Cyclopentane, 1,2-dimethyl-, trans-	98	C7H14	000822-50-4	74
5	1-Heptene	98	C7H14	000592-76-7	72





Library Search Compound Report

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Data File : VU032011.D
Acq On : 14 May 2019 21:45
Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

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

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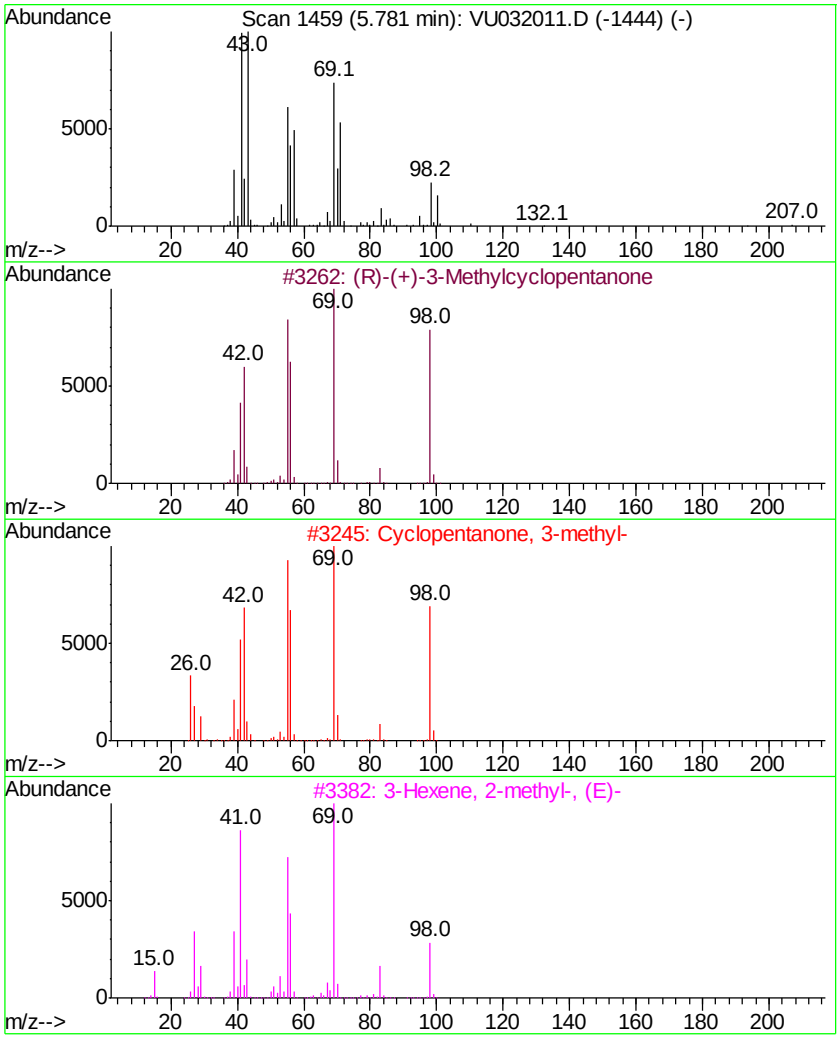
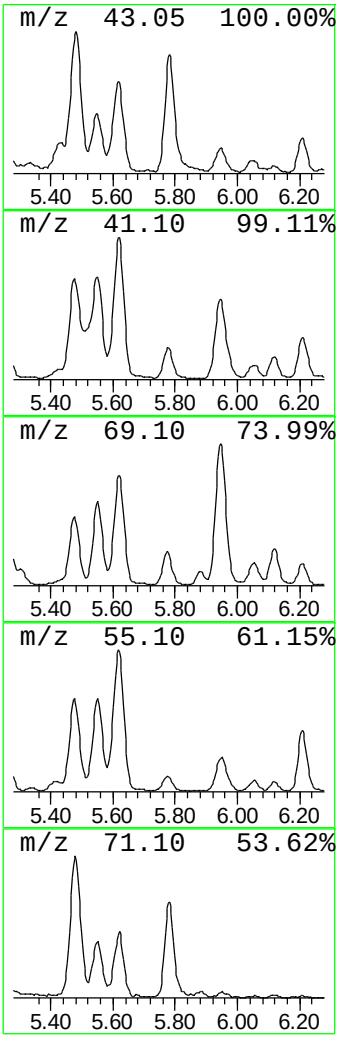
Peak Number 15 (R)-(+)-3-Methylcyclopentanone Concentration Rank 55

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.78	12.65 ug/L	671551	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(R)-(+)-3-Methylcyclopentanone	98	C6H10O	006672-30-6	58
2	Cyclopentanone, 3-methyl-	98	C6H10O	001757-42-2	58
3	3-Hexene, 2-methyl-, (E)-	98	C7H14	000692-24-0	55
4	1-Pentene, 3-ethyl-	98	C7H14	004038-04-4	49
5	2-Hexene, 2-methyl-	98	C7H14	002738-19-4	46





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Data File : VU032011.D
Acq On : 14 May 2019 21:45
Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

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

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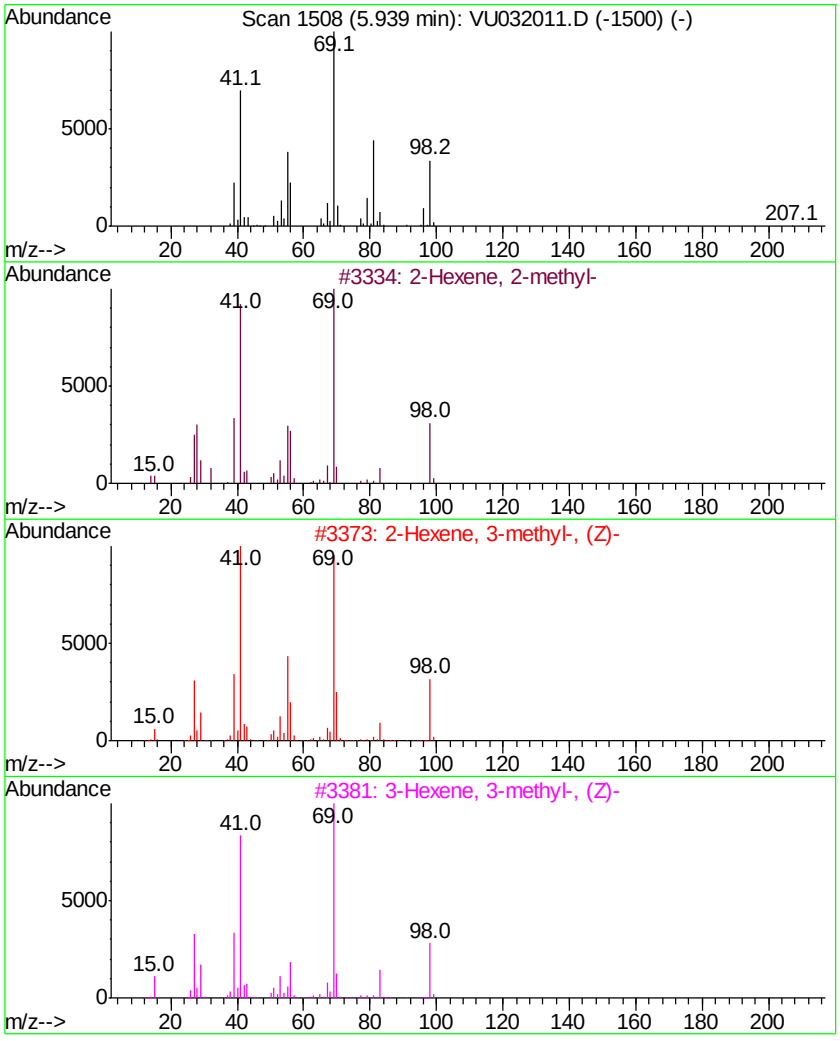
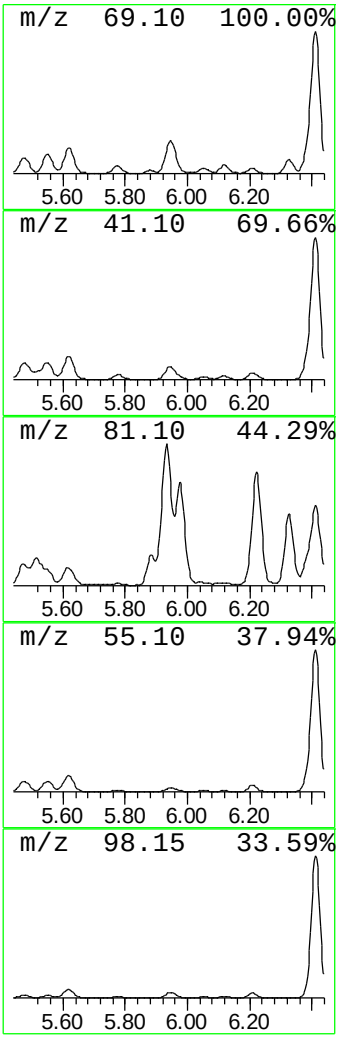
Peak Number 16 (DEL) Alkane: Cyclic5.94 Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.94	42.84 ug/L	2273790	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Hexene, 2-methyl-	98	C7H14	002738-19-4	93
2	2-Hexene, 3-methyl-, (Z)-	98	C7H14	010574-36-4	87
3	3-Hexene, 3-methyl-, (Z)-	98	C7H14	004914-89-0	83
4	2-Hexene, 3-methyl-, (Z)-	98	C7H14	010574-36-4	81
5	3-Methyl-3-hexene	98	C7H14	003404-65-7	80





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Acq On : 14 May 2019 21:45
Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

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

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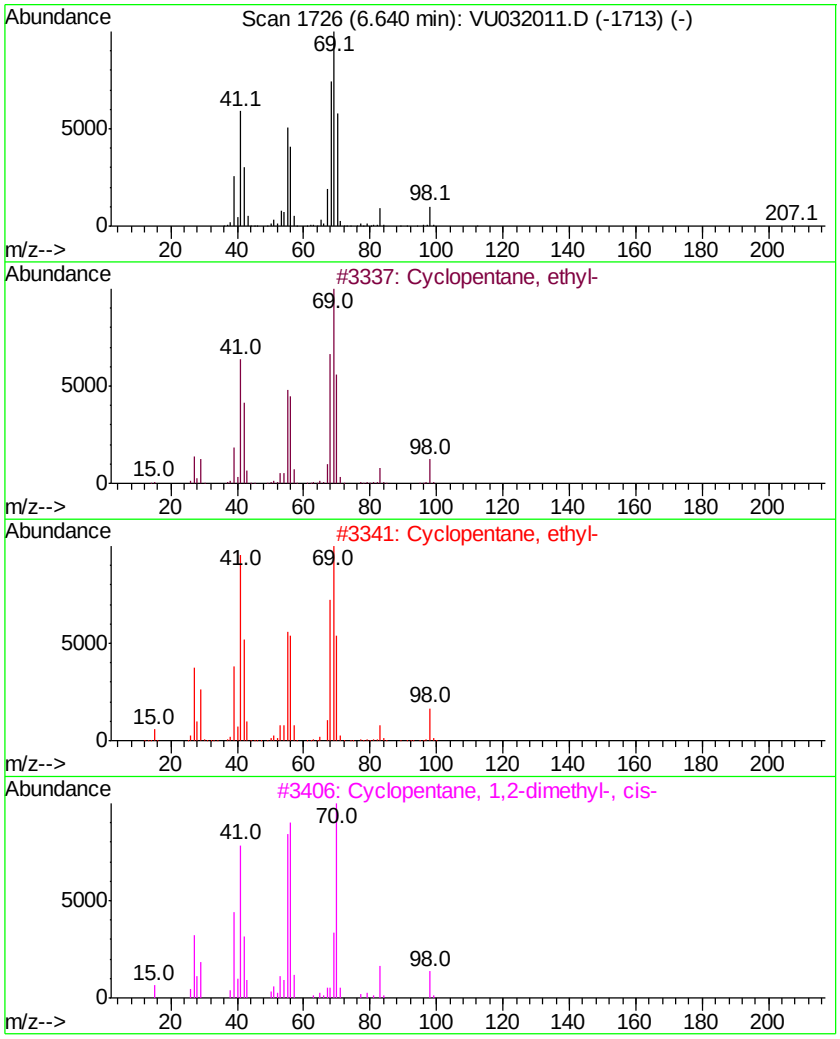
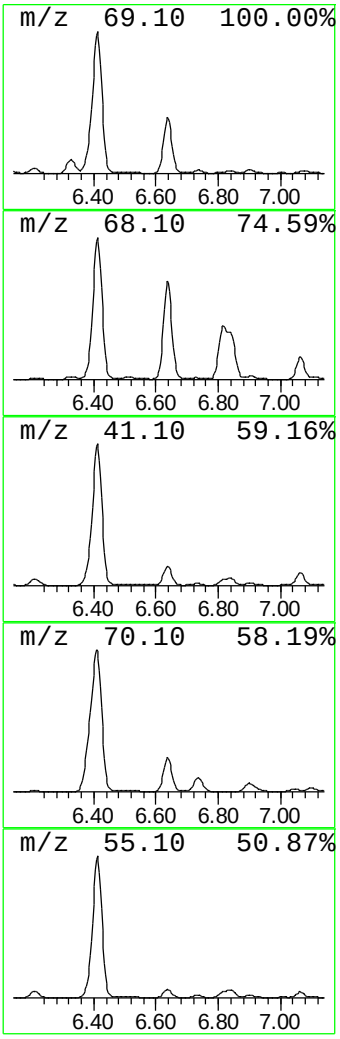
Peak Number 17 (DEL) Alkane: Cyclic6.64 Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.64	51.35 ug/L	2725670	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, ethyl-	98	C7H14	001640-89-7	91
2	Cyclopentane, ethyl-	98	C7H14	001640-89-7	91
3	Cyclopentane, 1,2-dimethyl-, cis-	98	C7H14	001192-18-3	38
4	1-Pentene, 3-ethyl-	98	C7H14	004038-04-4	38
5	Cyanamide, dimethyl-	70	C3H6N2	001467-79-4	38





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Acq On : 14 May 2019 21:45
Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

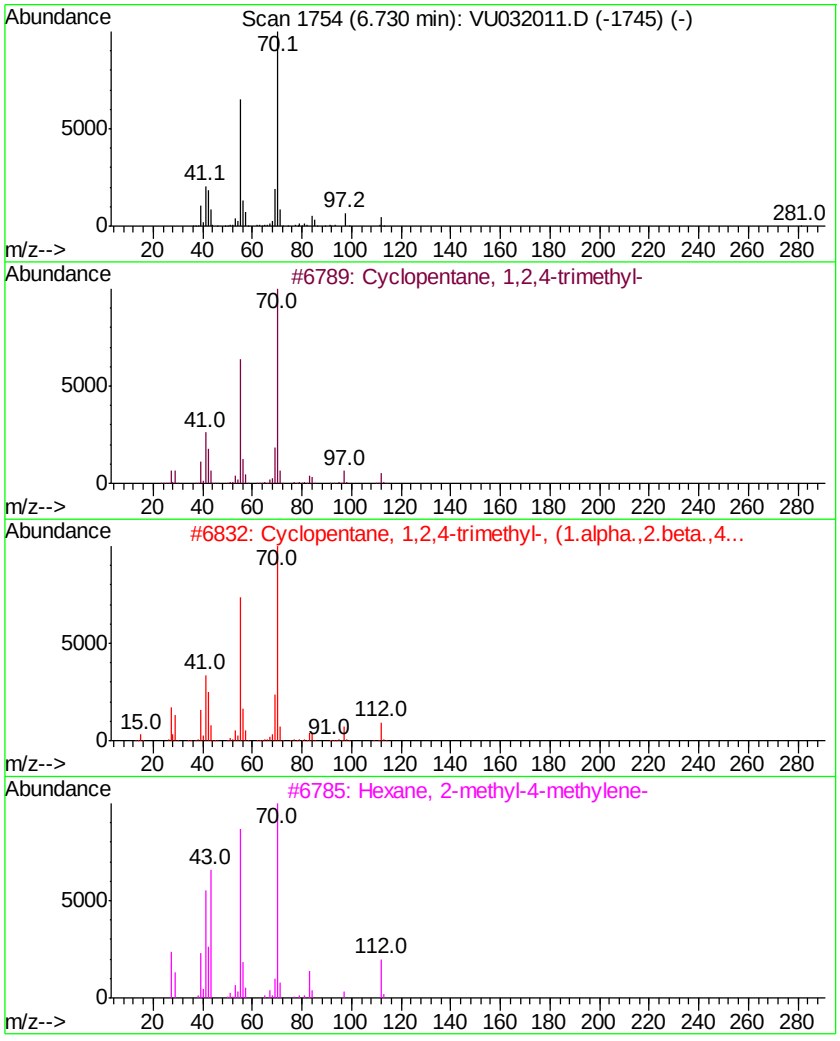
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

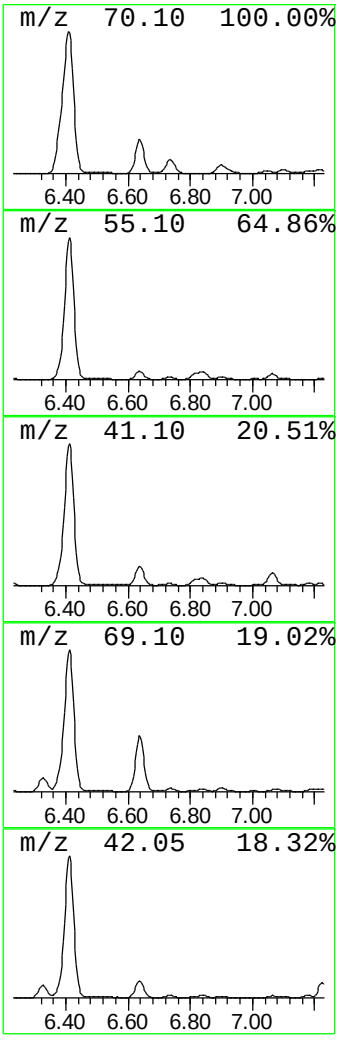
****

Peak Number 18 (DEL) Alkane: Cyclic6.73 Concentration Rank 70

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.73	9.00 ug/L	477918	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,2,4-trimethyl-	112	C8H16	002815-58-9	91
2	Cyclopentane, 1,2,4-trimethyl-, ...	112	C8H16	016883-48-0	90
3	Hexane, 2-methyl-4-methylene-	112	C8H16	003404-80-6	83
4	Cyclobutanone, 2,2,3-trimethyl-	112	C7H12O	001449-49-6	80
5	Cyclopentane, 1,2,4-trimethyl-	112	C8H16	002815-58-9	78





Library Search Compound Report

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Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

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

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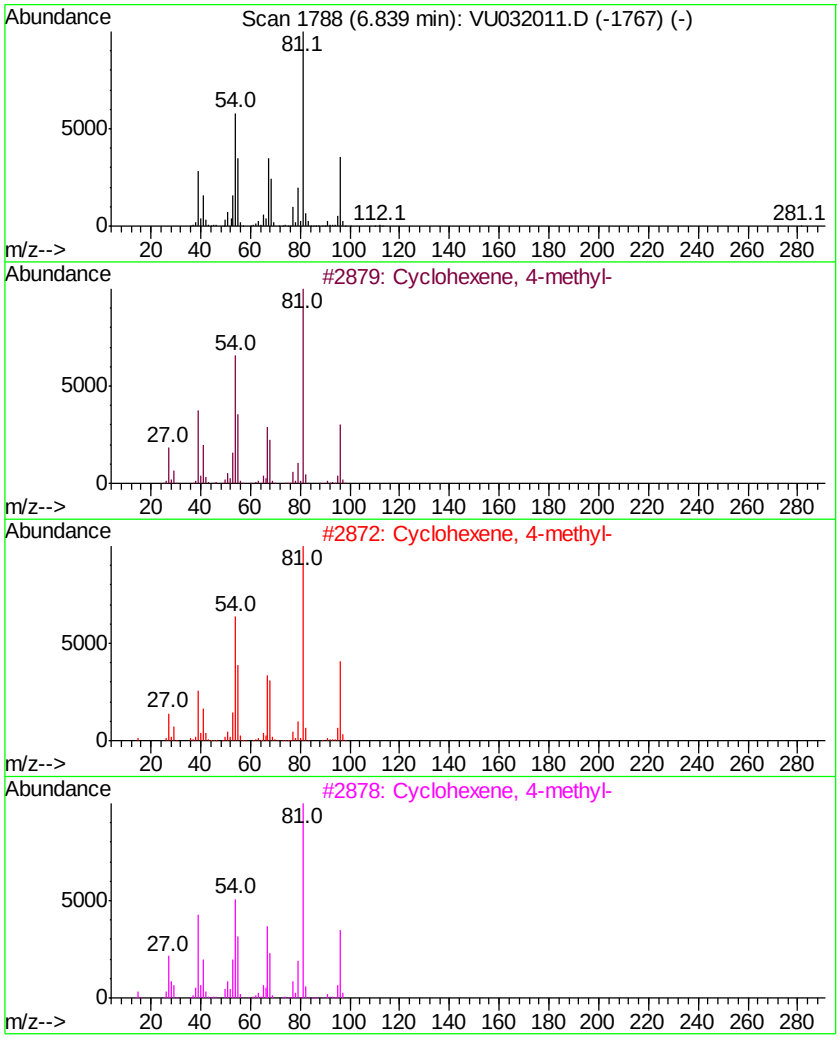
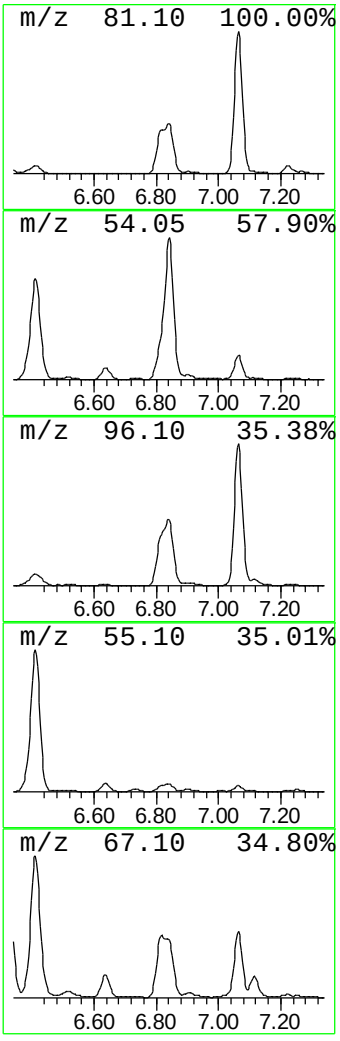
Peak Number 19 Cyclohexene, 4-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.84	106.52 ug/L	5654180	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexene, 4-methyl-	96	C7H12	000591-47-9	95
2	Cyclohexene, 4-methyl-	96	C7H12	000591-47-9	93
3	Cyclohexene, 4-methyl-	96	C7H12	000591-47-9	87
4	Cyclohexene, 3-methyl-	96	C7H12	000591-48-0	70
5	Cyclohexene, 1-methyl-	96	C7H12	000591-49-1	68





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Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

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

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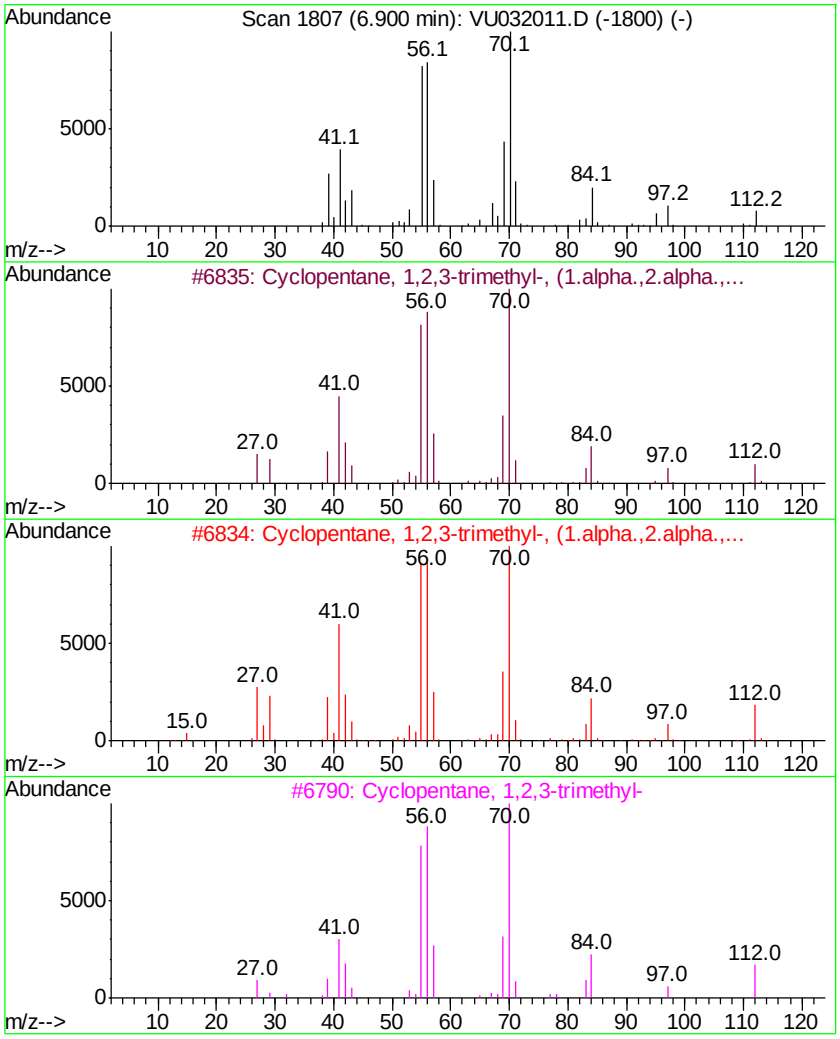
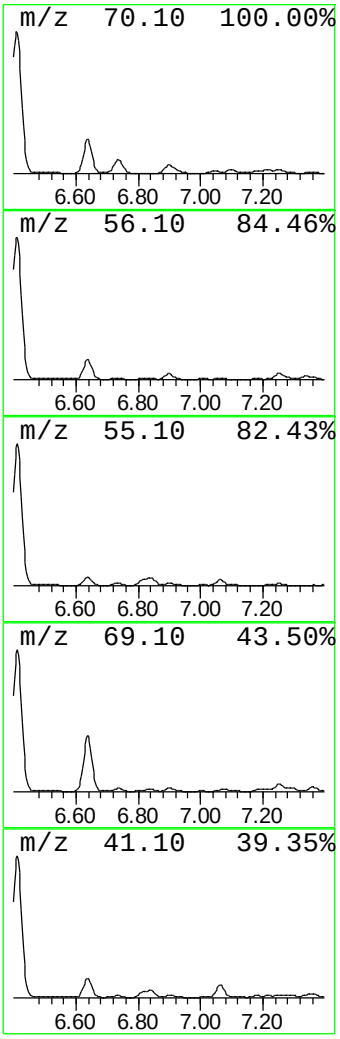
Peak Number 20 (DEL) Alkane: Cyclic6.90 Concentration Rank 53

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.90	13.36 ug/L	709183	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,2,3-trimethyl-, ...	112	C8H16	015890-40-1	87
2	Cyclopentane, 1,2,3-trimethyl-, ...	112	C8H16	015890-40-1	87
3	Cyclopentane, 1,2,3-trimethyl-	112	C8H16	002815-57-8	72
4	Cyclopentane, 1,2-dimethyl-, cis-	98	C7H14	001192-18-3	53
5	Cyclopentane, 1,2,3-trimethyl-, ...	112	C8H16	002613-69-6	47





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Acq On : 14 May 2019 21:45
Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

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

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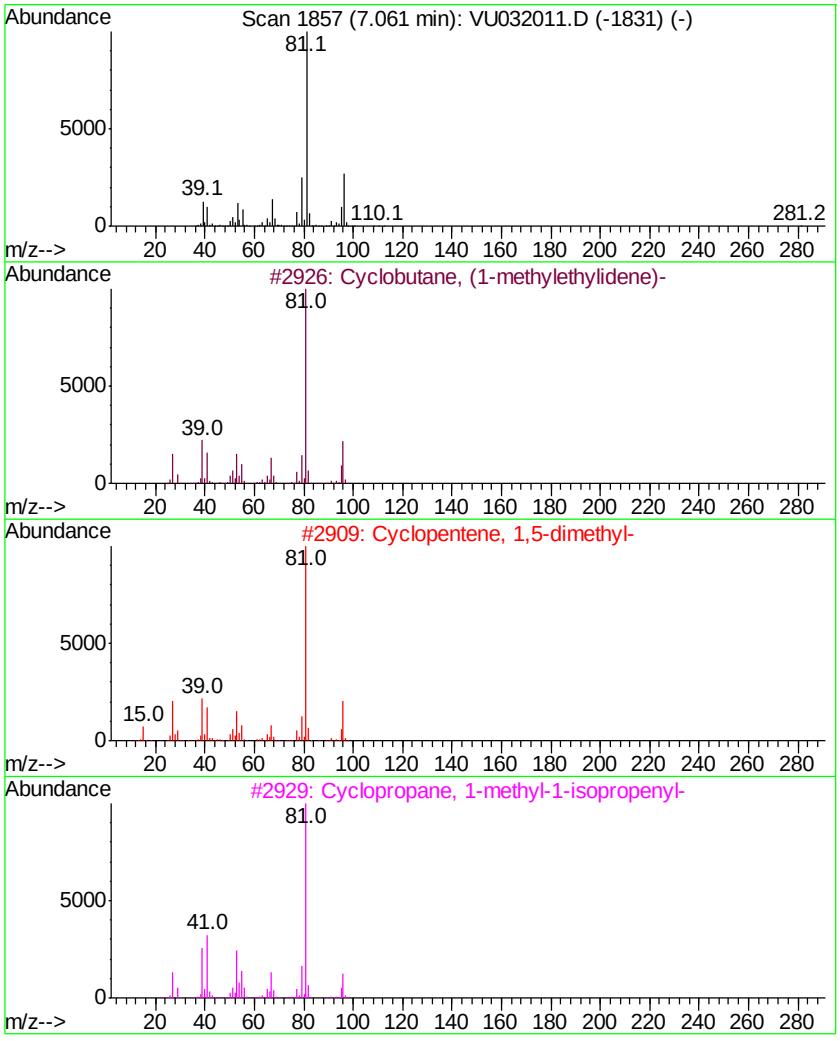
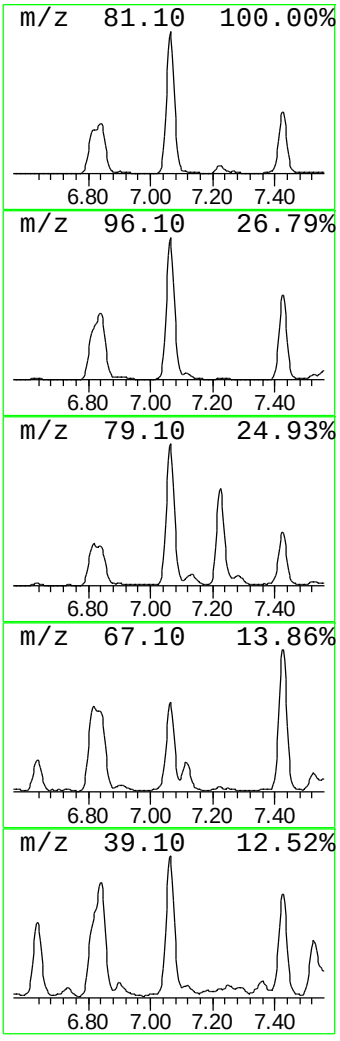
Peak Number 21 Cyclobutane, (1-methylethyl... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.06	115.28 ug/L	6119390	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclobutane, (1-methylethylidene)-	96	C7H12	001528-22-9	90
2	Cyclopentene, 1,5-dimethyl-	96	C7H12	016491-15-9	87
3	Cyclopropane, 1-methyl-1-isoprop...	96	C7H12	003422-07-9	86
4	3,5-Dimethylcyclopentene	96	C7H12	007459-71-4	83
5	Cyclopentene, 4,4-dimethyl-	96	C7H12	019037-72-0	80





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Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

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

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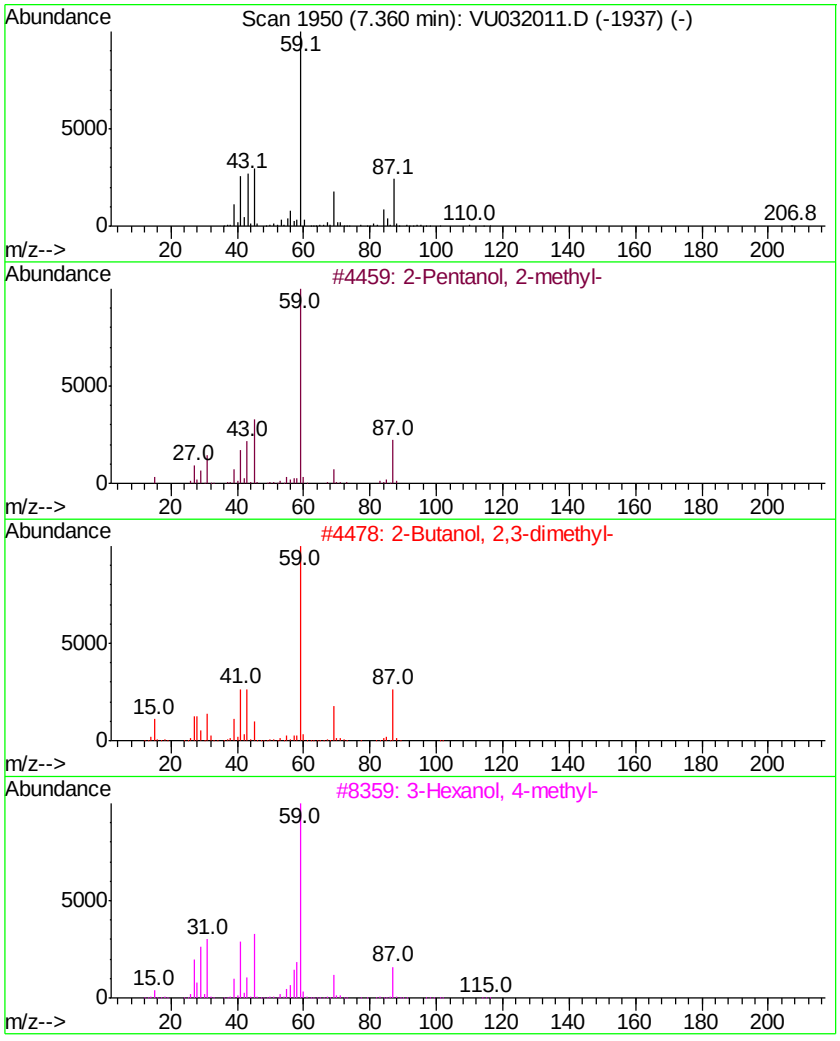
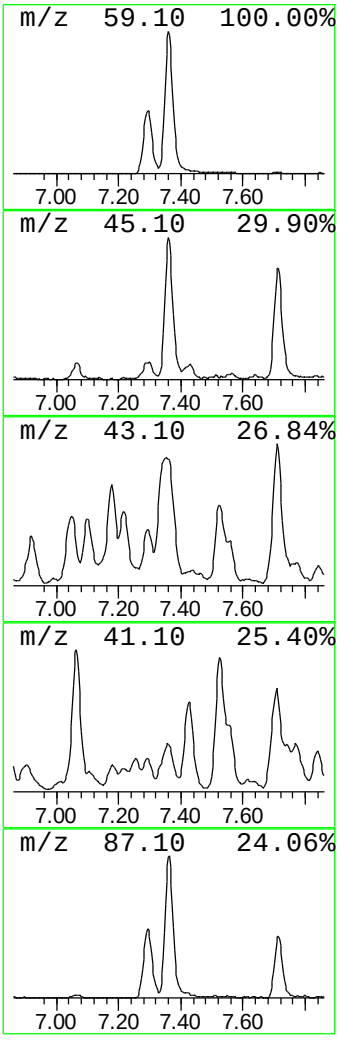
Peak Number 23 2-Pentanol, 2-methyl- Concentration Rank 54

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.36	13.09 ug/L	694801	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanol, 2-methyl-	102	C6H14O	000590-36-3	78
2	2-Butanol, 2,3-dimethyl-	102	C6H14O	000594-60-5	64
3	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	59
4	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	56
5	Propane, 2-ethoxy-2-methyl-	102	C6H14O	000637-92-3	53





Library Search Compound Report

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Acq On : 14 May 2019 21:45
Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

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Quant Title : VOC Analysis

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

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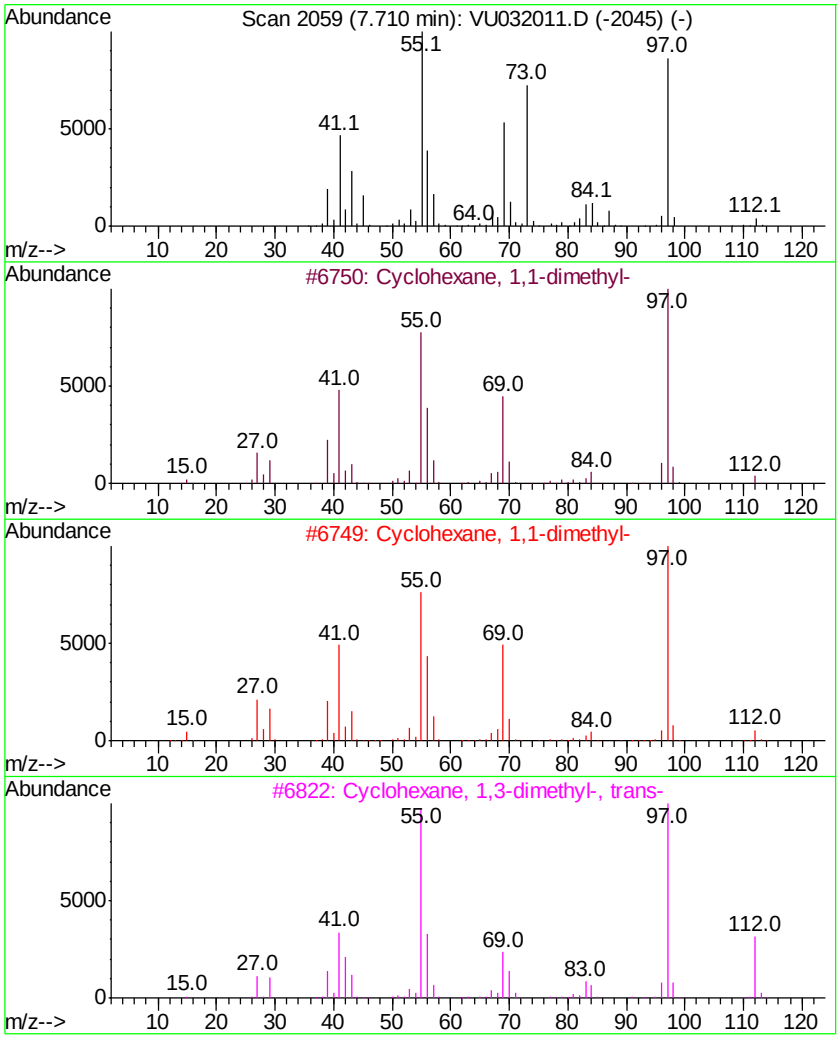
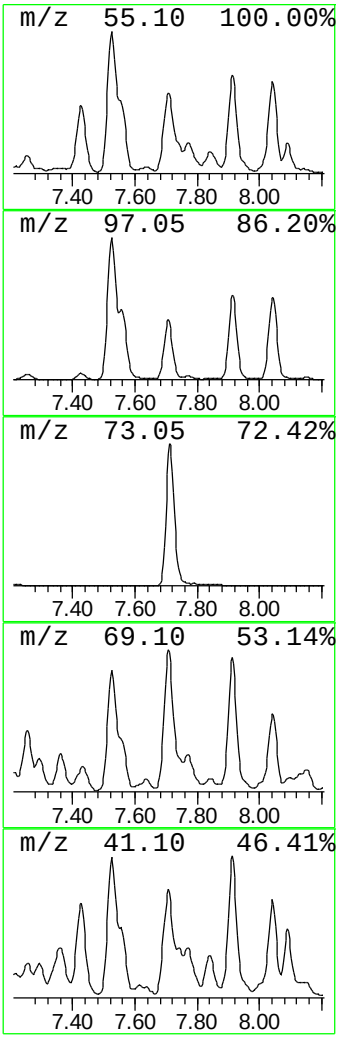
Peak Number 25 (DEL) Alkane: Cyclic7.71 Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.71	34.24 ug/L	2201950	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,1-dimethyl-	112	C8H16	000590-66-9	68
2	Cyclohexane, 1,1-dimethyl-	112	C8H16	000590-66-9	68
3	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	64
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	64
5	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	53





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Acq On : 14 May 2019 21:45
Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

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

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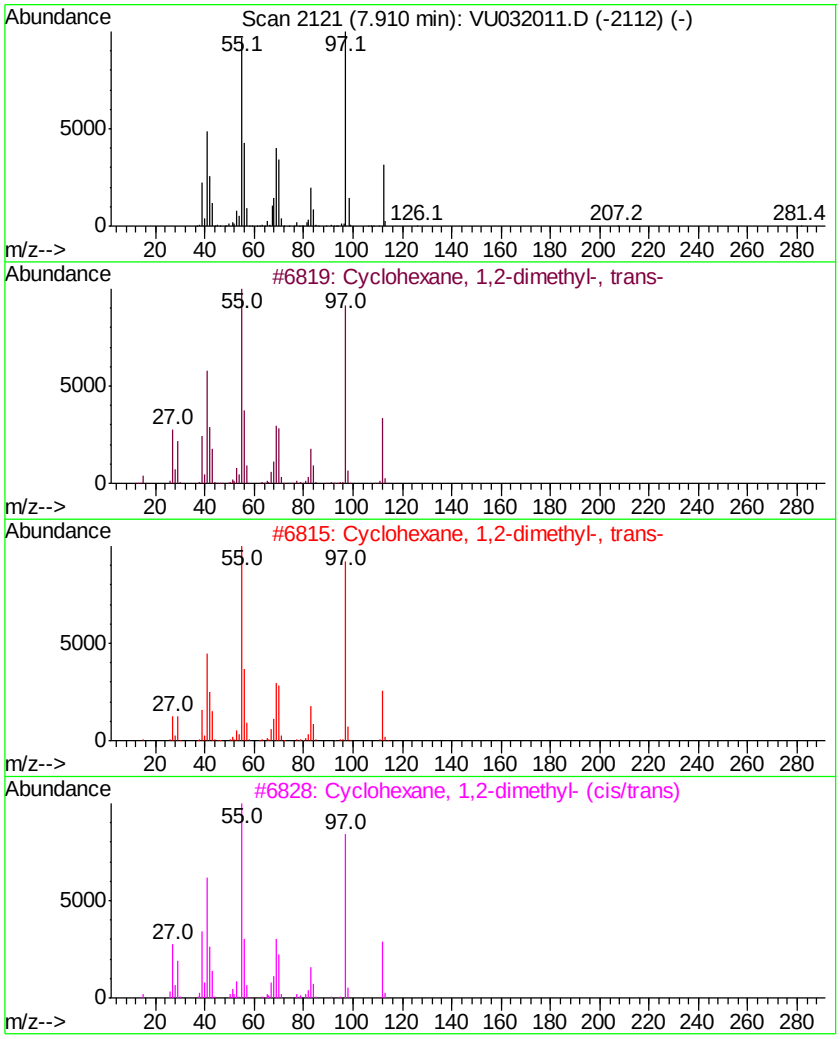
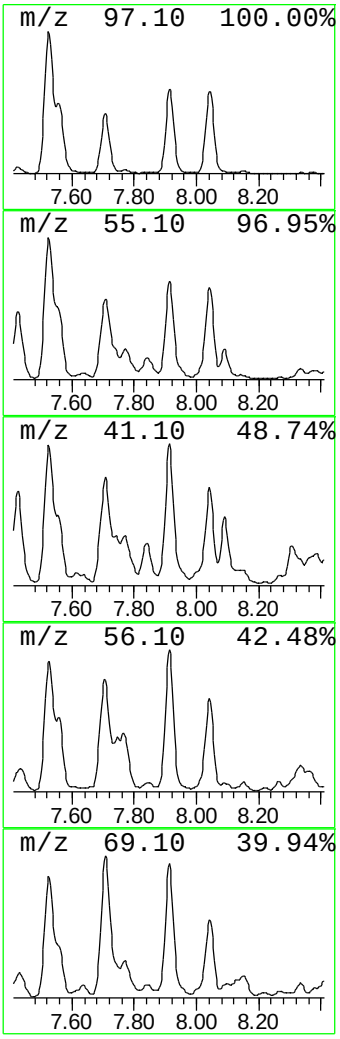
Peak Number 26 (DEL) Alkane: Cyclic7.91 Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.91	34.67 ug/L	2229750	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	97
2	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	96
3	Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	94
4	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	91
5	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	87





Library Search Compound Report

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Data File : VU032011.D
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Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

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

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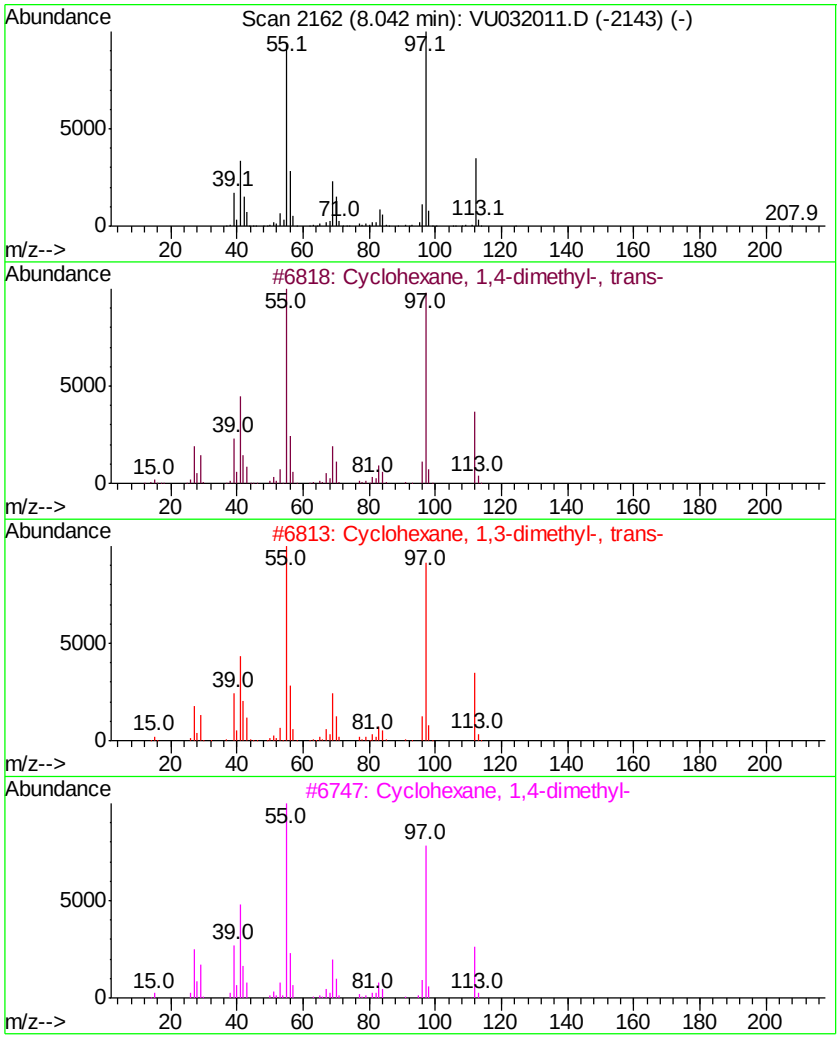
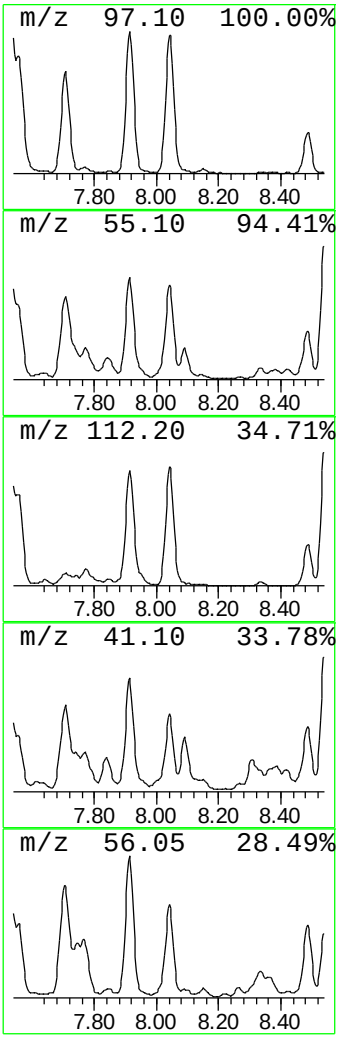
Peak Number 27 (DEL) Alkane: Cyclic8.04 Concentration Rank 35

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.04	27.48 ug/L	1766880	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,4-dimethyl-, trans-	112	C8H16	002207-04-7	97
2	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	94
3	Cyclohexane, 1,4-dimethyl-	112	C8H16	000589-90-2	94
4	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	94
5	Cyclohexane, 1,4-dimethyl-, cis-	112	C8H16	000624-29-3	91





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Acq On : 14 May 2019 21:45
Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

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

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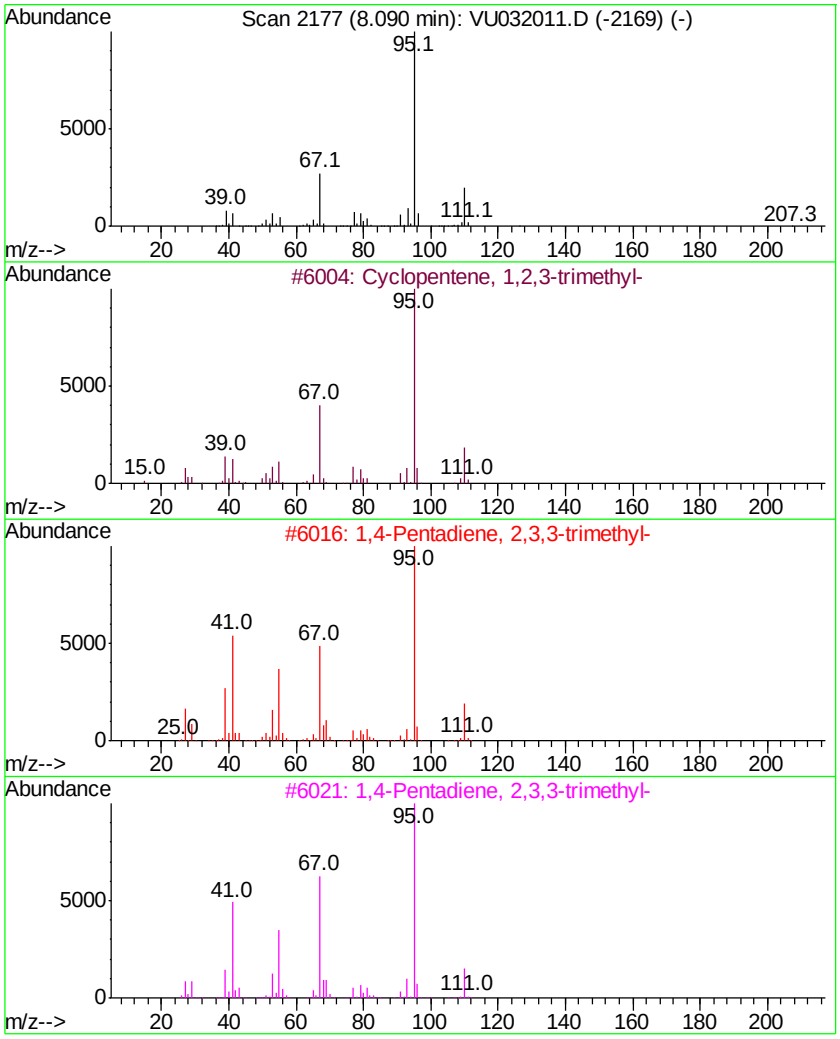
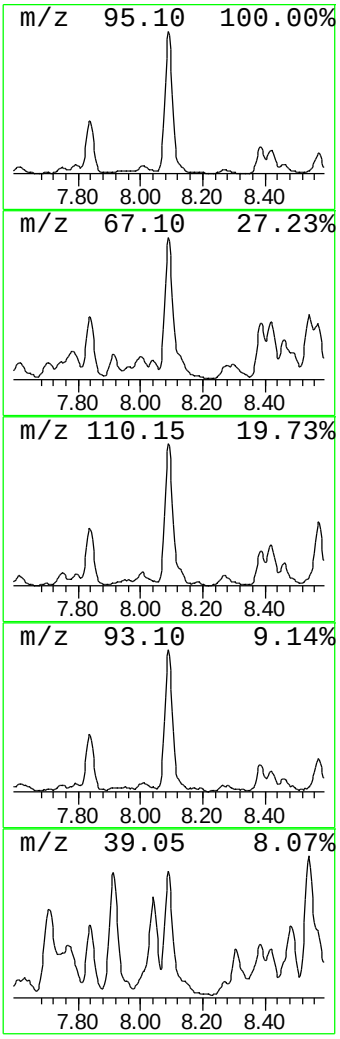
Peak Number 28 Cyclopentene, 1,2,3-trimethyl- Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.09	42.64 ug/L	2742030	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentene, 1,2,3-trimethyl-	110	C8H14	000473-91-6	91
2	1,4-Pentadiene, 2,3,3-trimethyl-	110	C8H14	000756-02-5	83
3	1,4-Pentadiene, 2,3,3-trimethyl-	110	C8H14	000756-02-5	78
4	1-(3H-Imidazol-4-yl)-ethanone	110	C5H6N2O	061985-25-9	72
5	Bicyclo[3.1.0]hexane, 1,5-dimethyl-	110	C8H14	1000142-17-5	64





Library Search Compound Report

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Data File : VU032011.D
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Sample : K2738-13
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

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

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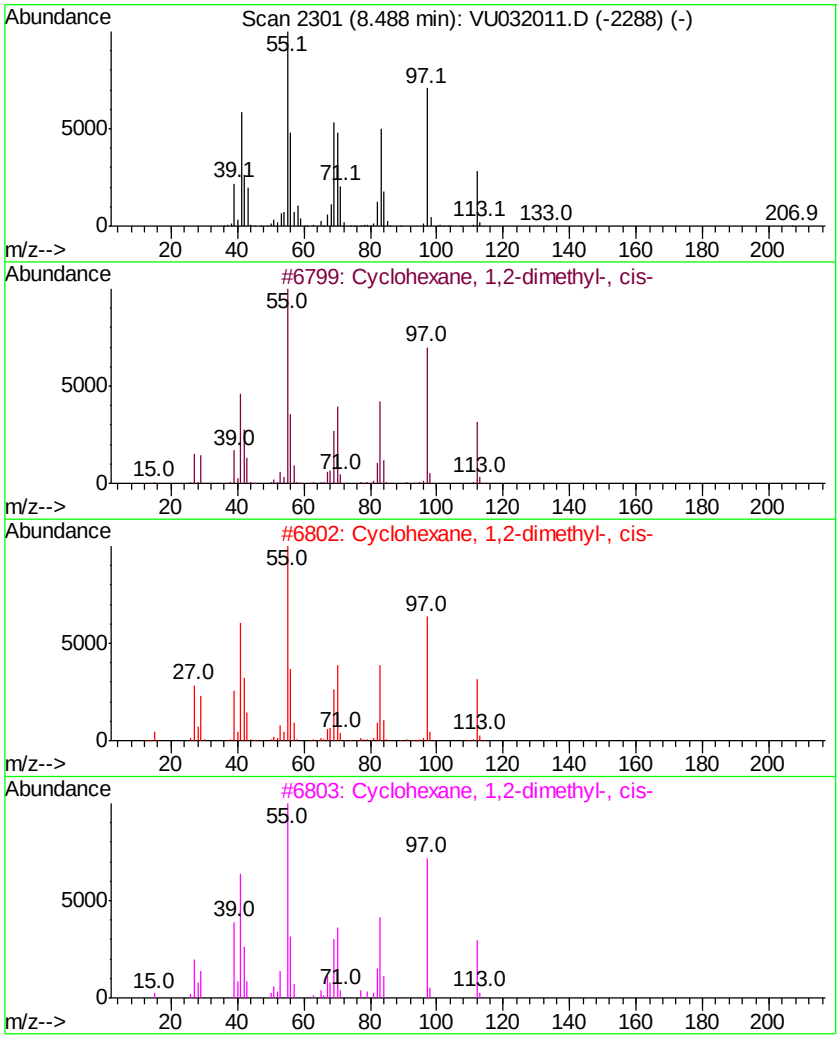
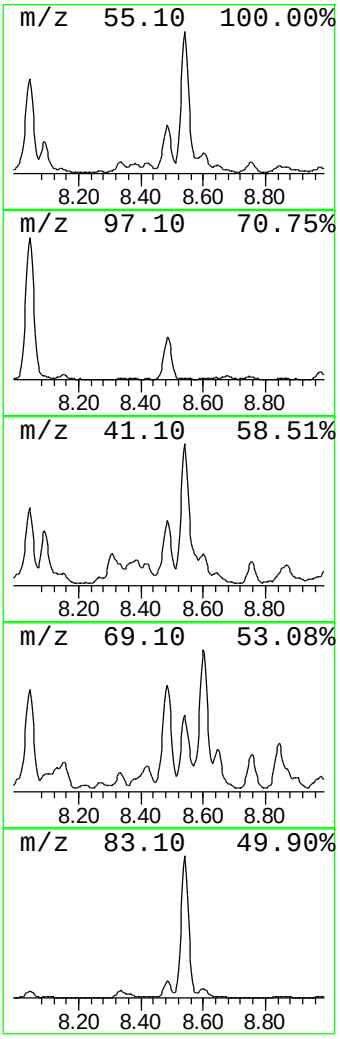
Peak Number 29 (DEL) Alkane: Cyclic8.49 Concentration Rank 48

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.49	15.86 ug/L	1020100	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl-, cis-	112	C8H16	002207-01-4	91
2	Cyclohexane, 1,2-dimethyl-, cis-	112	C8H16	002207-01-4	91
3	Cyclohexane, 1,2-dimethyl-, cis-	112	C8H16	002207-01-4	80
4	1,2-Cyclohexanedione	112	C6H8O2	000765-87-7	64
5	Cyclooctane	112	C8H16	000292-64-8	53





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Sample : K2738-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

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ClientSampleId : DB898

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Quant Title : VOC Analysis

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

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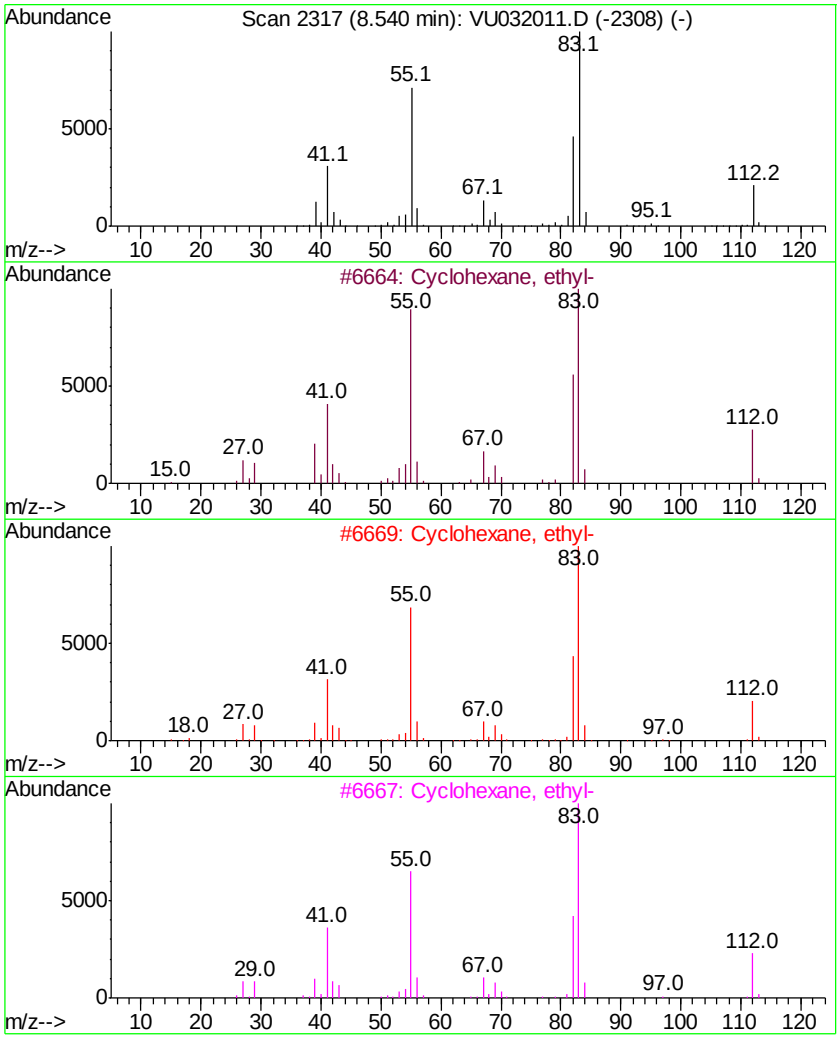
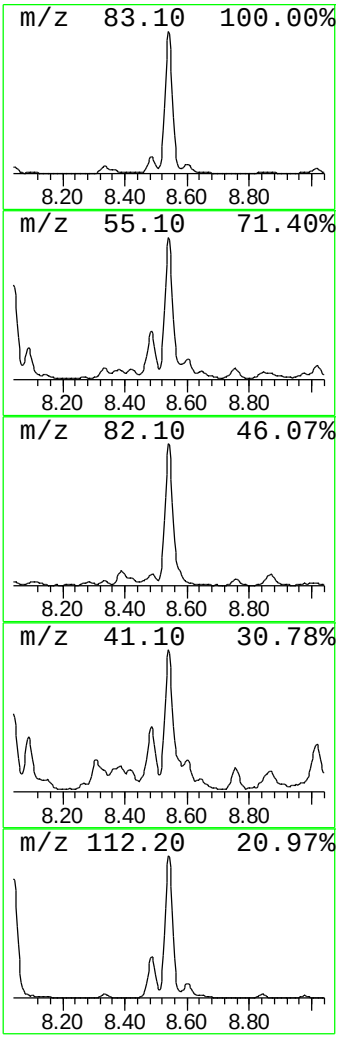
Peak Number 30 (DEL) Alkane: Cyclic8.54 Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.54	45.87 ug/L	2949730	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, ethyl-	112	C8H16	001678-91-7	93
2	Cyclohexane, ethyl-	112	C8H16	001678-91-7	91
3	Cyclohexane, ethyl-	112	C8H16	001678-91-7	91
4	Cyclohexane, ethyl-	112	C8H16	001678-91-7	91
5	Cyclohexane, ethyl-	112	C8H16	001678-91-7	90





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Data File : VU032011.D
Acq On : 14 May 2019 21:45
Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

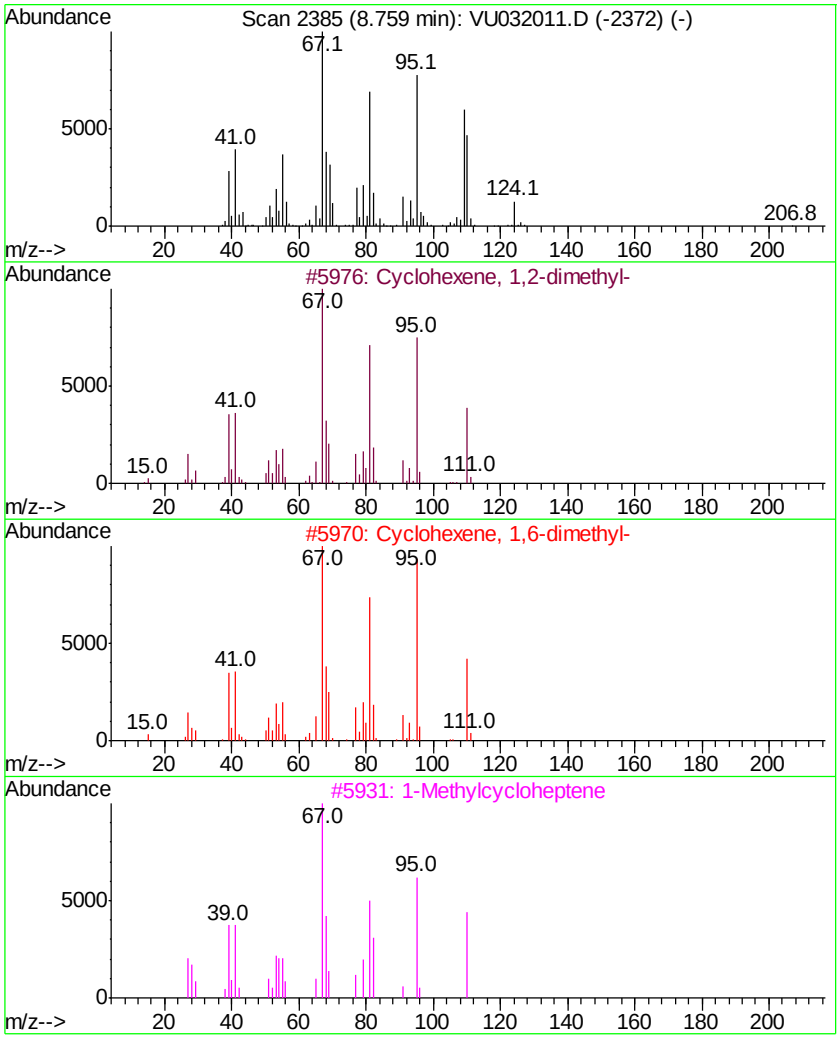
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

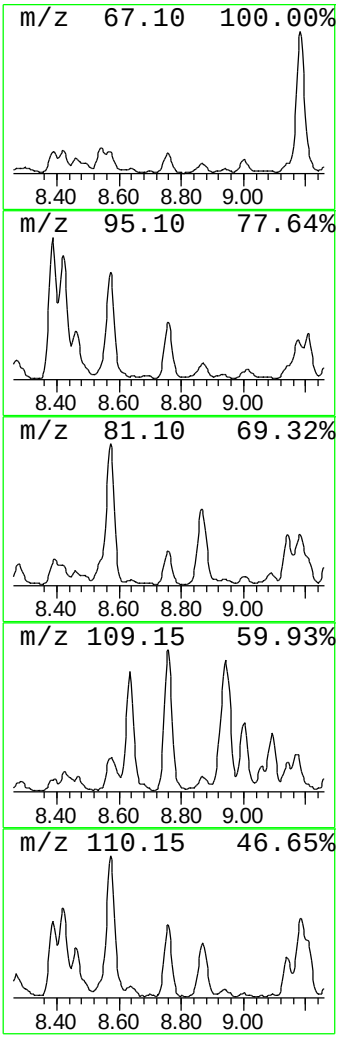
****

Peak Number 31 Cyclohexene, 1,2-dimethyl- Concentration Rank 61

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.76	11.04 ug/L	709787	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexene, 1,2-dimethyl-	110	C8H14	001674-10-8	90
2	Cyclohexene, 1,6-dimethyl-	110	C8H14	001759-64-4	74
3	1-Methylcycloheptene	110	C8H14	055308-20-8	68
4	1-Methyl-2-methylenecyclohexane	110	C8H14	002808-75-5	68
5	2-Methylbicyclo[3.2.1]octane	124	C9H16	1000215-28-0	62





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU051419\
Data File : VU032011.D
Acq On : 14 May 2019 21:45
Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

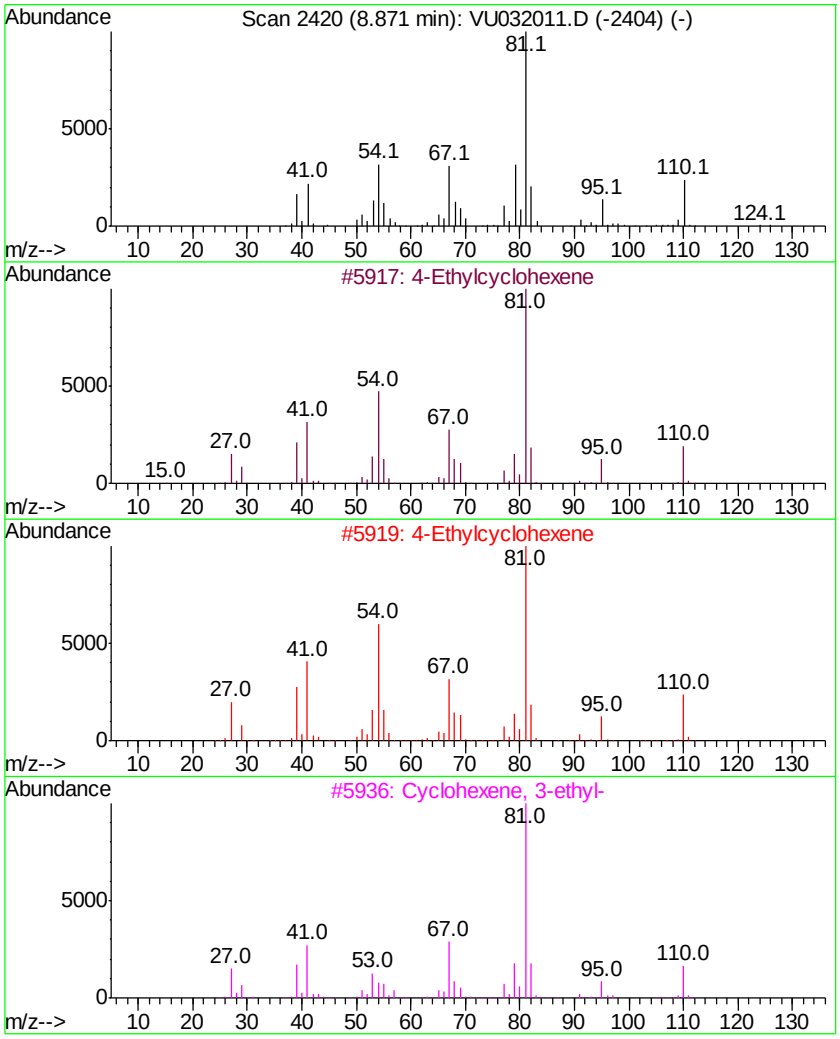
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

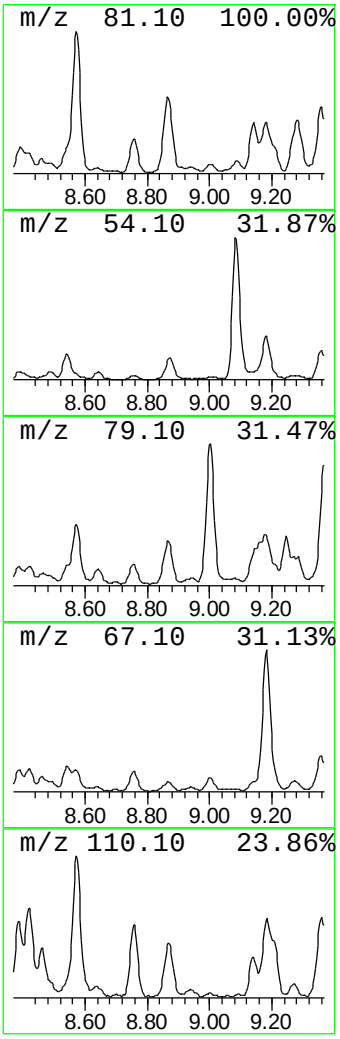
****

Peak Number 32 4-Ethylcyclohexene Concentration Rank 62

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.87	10.93 ug/L	703027	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Ethylcyclohexene	110	C8H14	003742-42-5	90
2	4-Ethylcyclohexene	110	C8H14	003742-42-5	90
3	Cyclohexene, 3-ethyl-	110	C8H14	002808-71-1	87
4	Cyclohexene, 1-ethyl-	110	C8H14	001453-24-3	87
5	Cyclohexene, 1-ethyl-	110	C8H14	001453-24-3	81





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Data File : VU032011.D
Acq On : 14 May 2019 21:45
Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

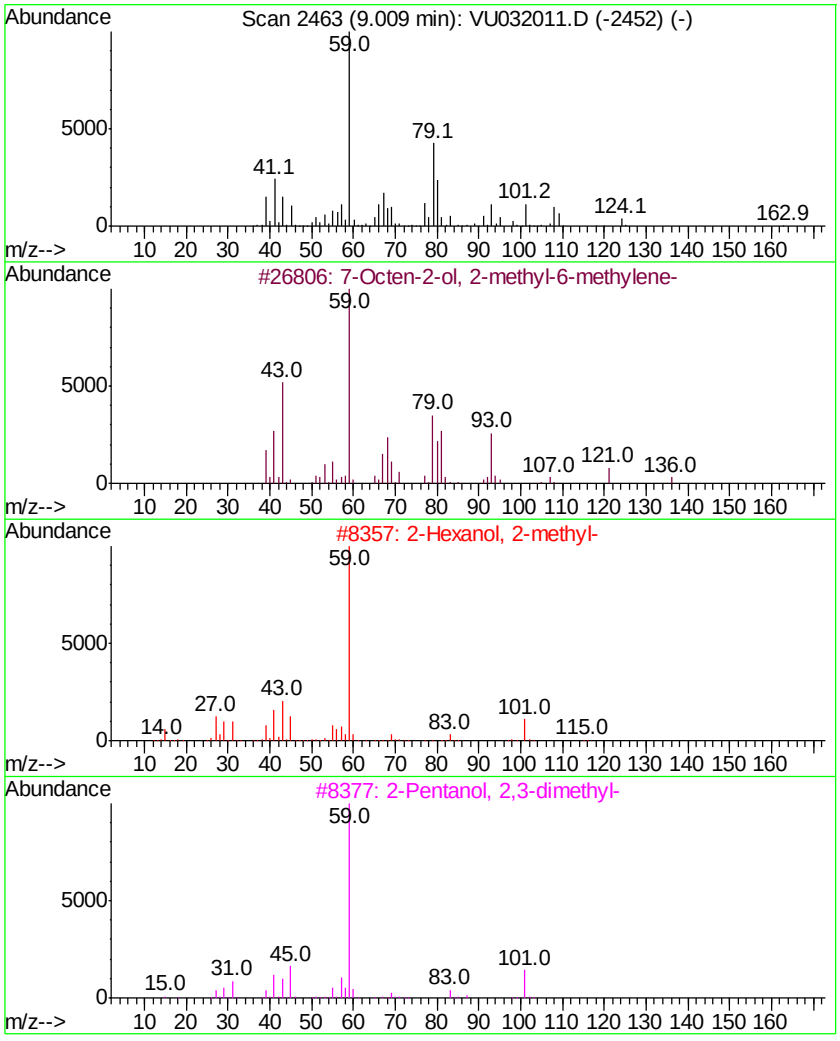
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

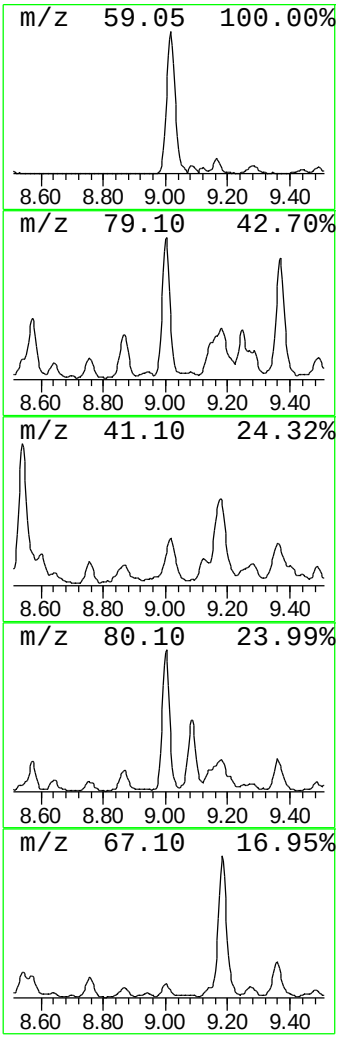
****

Peak Number 33 unknown-01 Concentration Rank 45

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.01	19.16 ug/L	1232230	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7-Octen-2-ol, 2-methyl-6-methylene-	154	C10H18O	000543-39-5	36
2	2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	35
3	2-Pentanol, 2,3-dimethyl-	116	C7H16O	004911-70-0	35
4	2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	35
5	2-Pentanol, 2,3-dimethyl-	116	C7H16O	004911-70-0	35





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU051419\
Data File : VU032011.D
Acq On : 14 May 2019 21:45
Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

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

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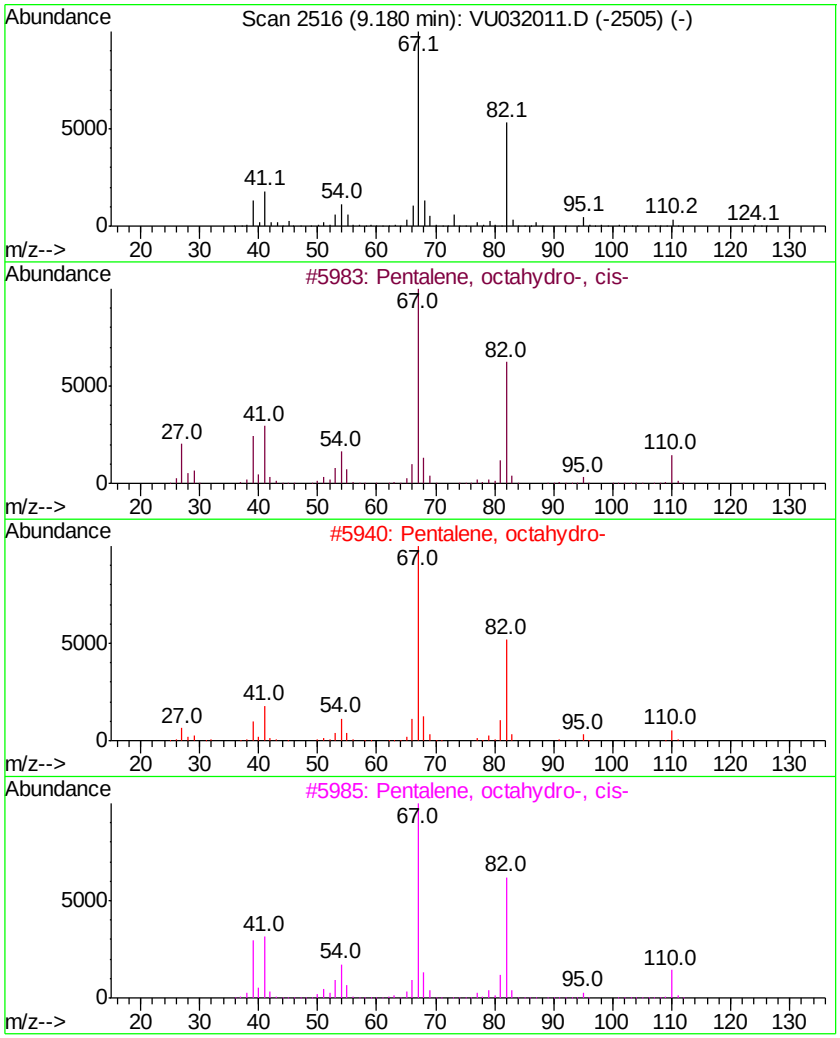
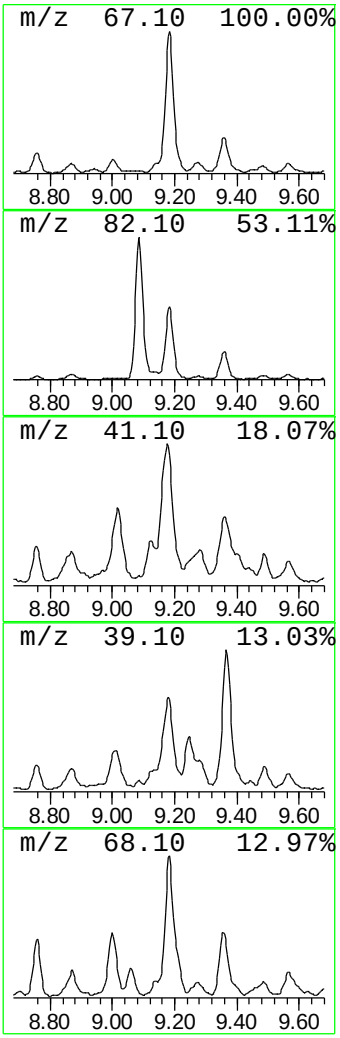
Peak Number 34 Pentalene, octahydro-, cis- Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.18	37.58 ug/L	2416370	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentalene, octahydro-, cis-	110	C8H14	001755-05-1	72
2	Pentalene, octahydro-	110	C8H14	000694-72-4	72
3	Pentalene, octahydro-, cis-	110	C8H14	001755-05-1	72
4	Pentalene, octahydro-, cis-	110	C8H14	001755-05-1	72
5	4-Methyl-2-pentyne	82	C6H10	021020-27-9	64





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU051419\
Data File : VU032011.D
Acq On : 14 May 2019 21:45
Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

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

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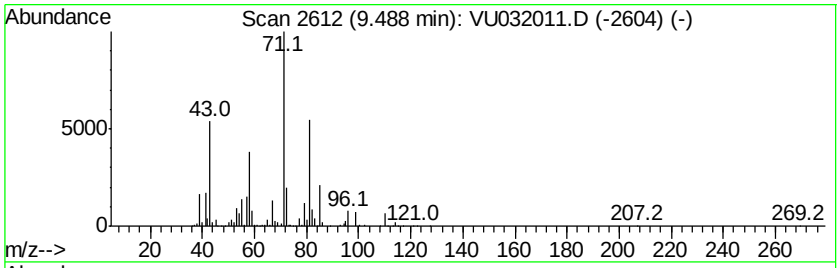
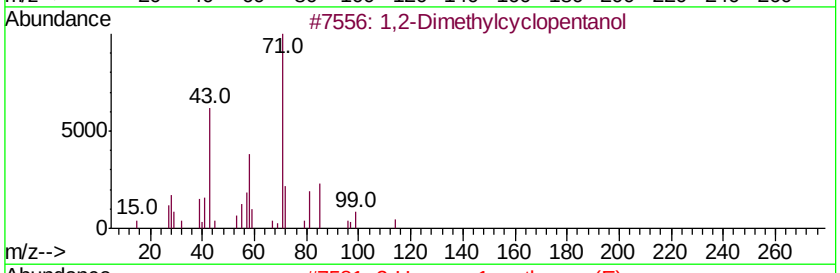
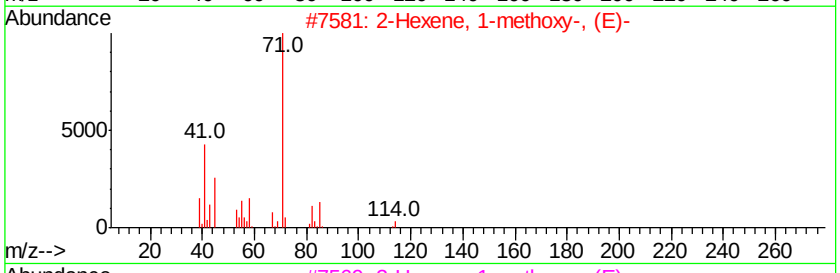
Peak Number 35 1,2-Dimethylcyclopentanol Concentration Rank 67

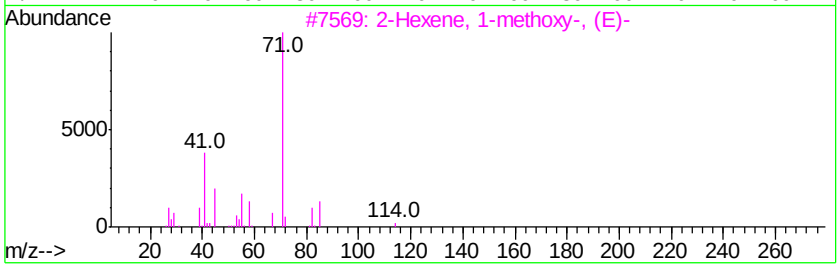
R.T.	EstConc	Area	Relative to ISTD	R.T.
9.49	9.43 ug/L	606083	Chlorobenzene-d5	9.09

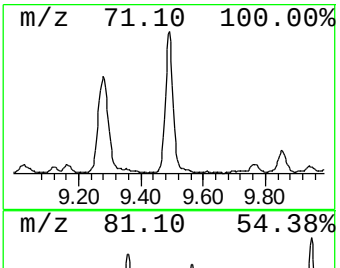
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2-Dimethylcyclopentanol	114	C7H14O	019550-45-9	78
2	2-Hexene, 1-methoxy-, (E)-	114	C7H14O	056052-83-6	46
3	2-Hexene, 1-methoxy-, (E)-	114	C7H14O	056052-83-6	43
4	(+-)-3-Methyl-1-penten-3-ol	100	C6H12O	086361-10-6	43
5	Oxirane, hexyl-	128	C8H16O	002984-50-1	42

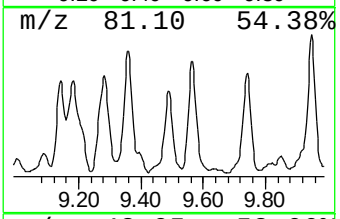


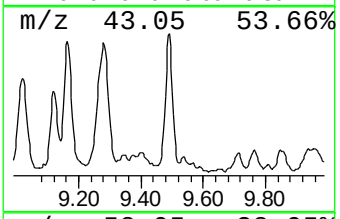


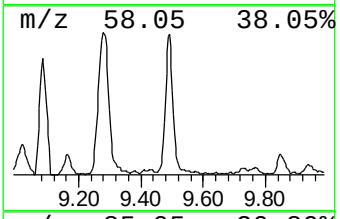


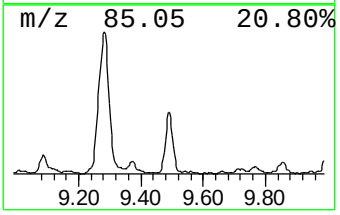












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Data File : VU032011.D
Acq On : 14 May 2019 21:45
Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

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

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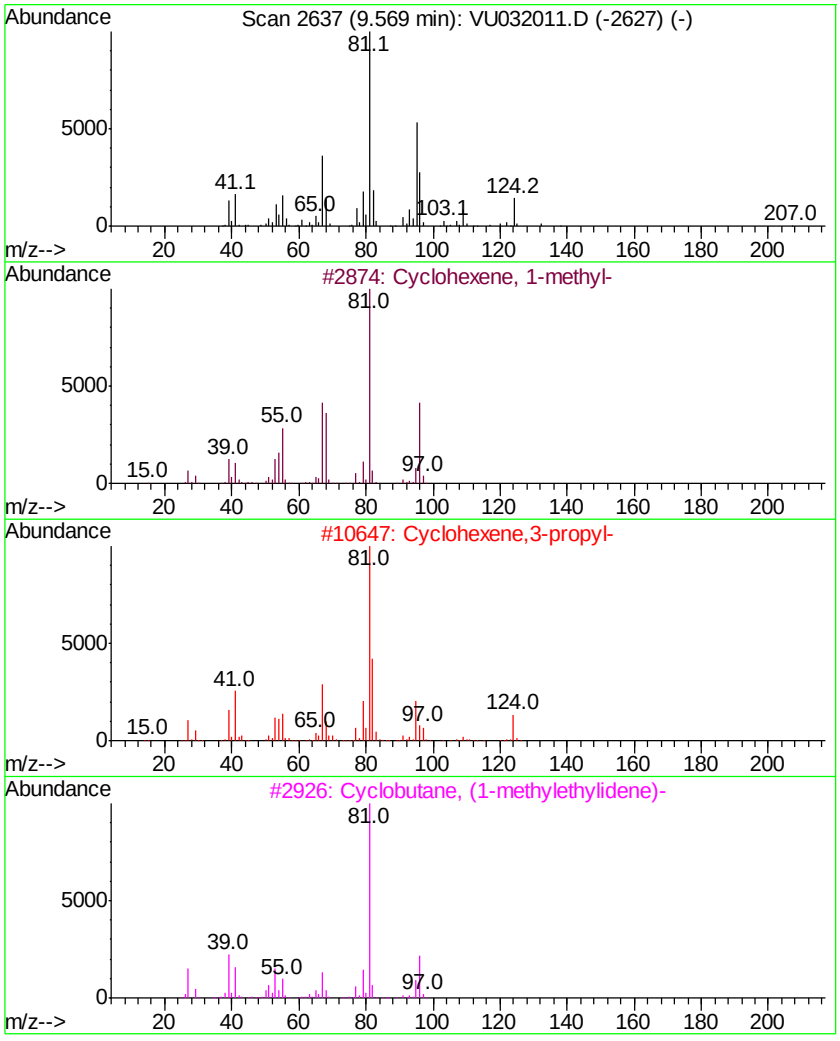
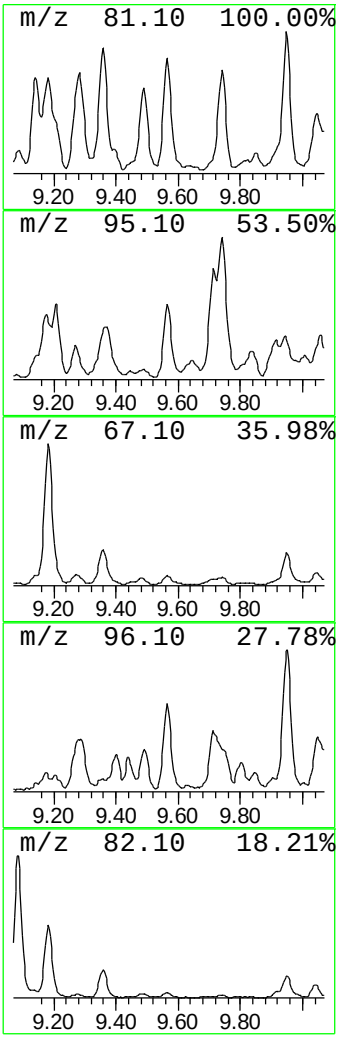
Peak Number 36 Cyclohexene, 1-methyl- Concentration Rank 65

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.57	9.90 ug/L	636755	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexene, 1-methyl-	96	C7H12	000591-49-1	58
2	Cyclohexene,3-propyl-	124	C9H16	003983-06-0	53
3	Cyclobutane, (1-methylethylidene)-	96	C7H12	001528-22-9	52
4	Cyclopentane, 1-methyl-2-methylene-	96	C7H12	041158-41-2	50
5	4-Ethylcyclohexene	110	C8H14	003742-42-5	50





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Data File : VU032011.D
Acq On : 14 May 2019 21:45
Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

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

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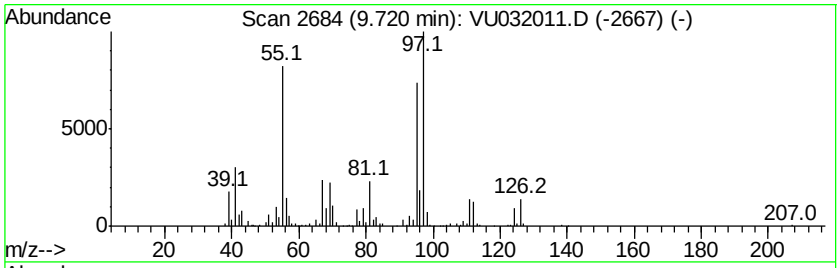
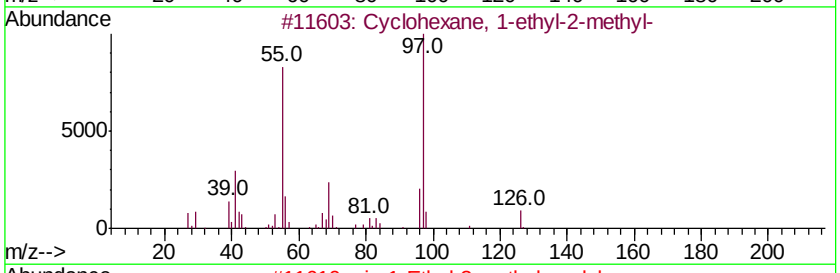
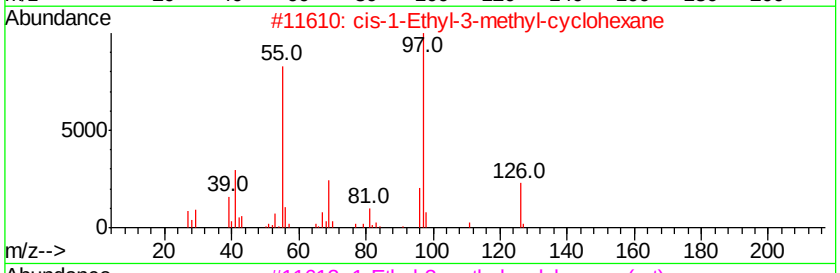
Peak Number 37 (DEL) Alkane: Cyclic9.72 Concentration Rank 68

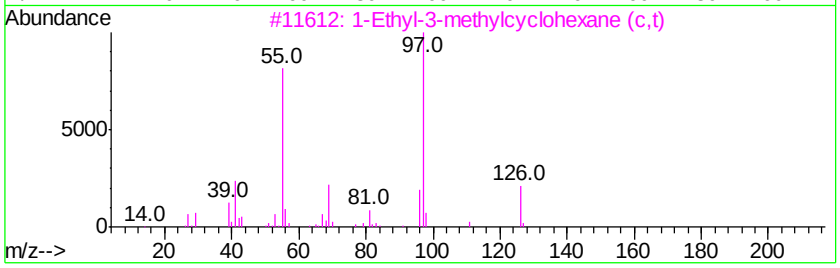
R.T.	EstConc	Area	Relative to ISTD	R.T.
9.72	9.27 ug/L	596402	Chlorobenzene-d5	9.09

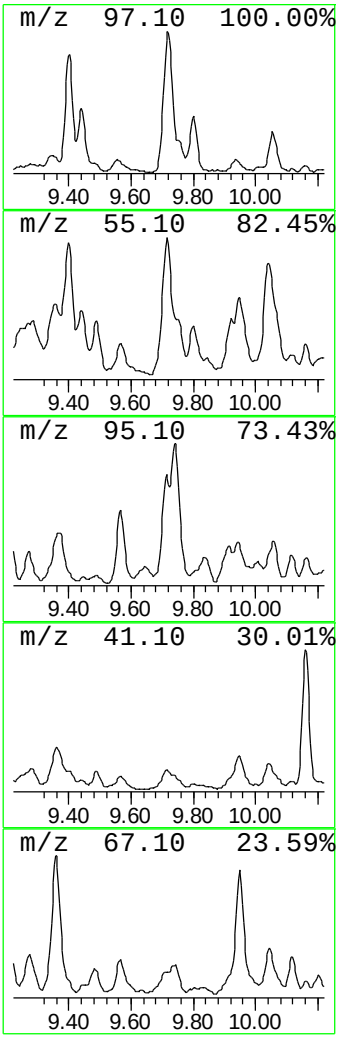
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1-ethyl-2-methyl-	126	C9H18	003728-54-9	50
2	cis-1-Ethyl-3-methylcyclohexane	126	C9H18	019489-10-2	45
3	1-Ethyl-3-methylcyclohexane (c,t)	126	C9H18	003728-55-0	43
4	1-Ethyl-4-methylcyclohexane	126	C9H18	003728-56-1	43
5	2-Hexene, 3,4,4-trimethyl-	126	C9H18	053941-19-8	43











Library Search Compound Report

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Data File : VU032011.D
Acq On : 14 May 2019 21:45
Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

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

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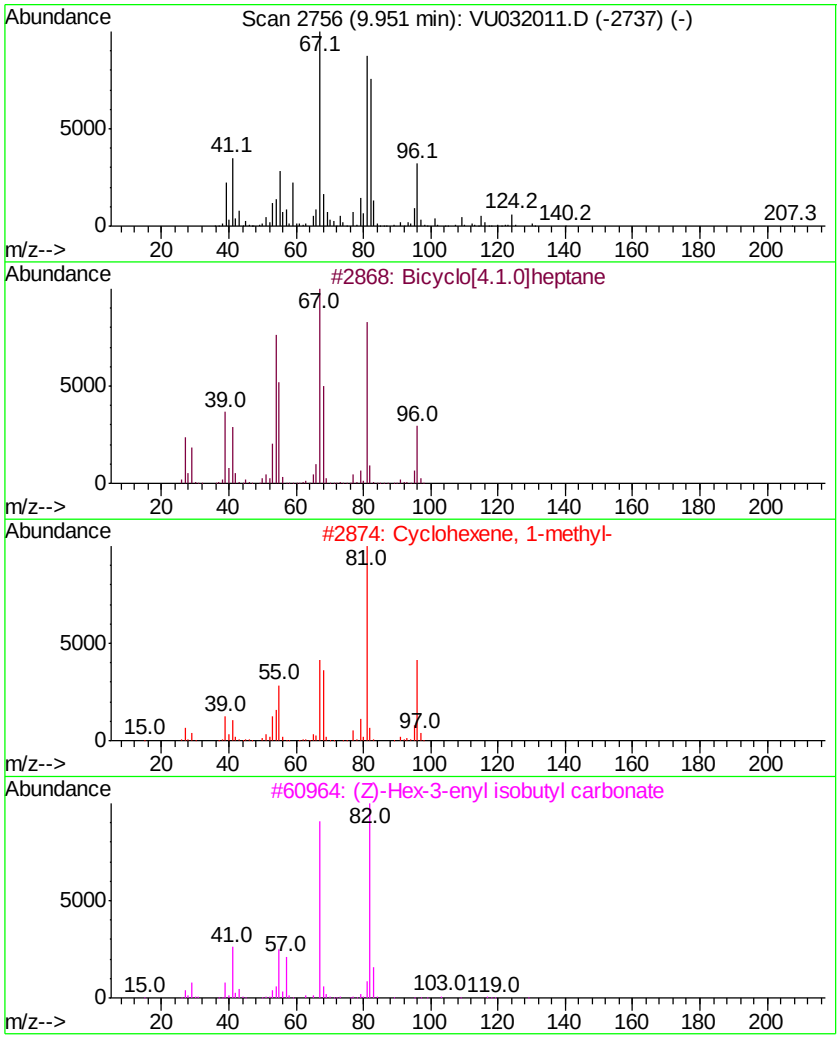
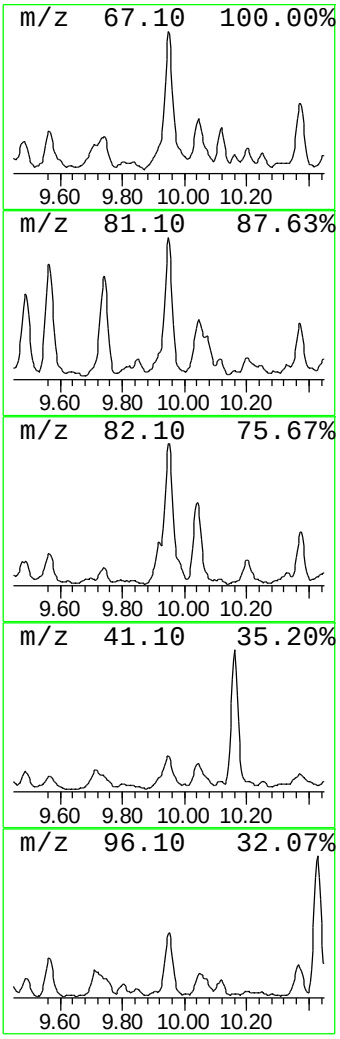
Peak Number 38 unknown-02 Concentration Rank 46

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.95	17.56 ug/L	1129340	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Bicyclo[4.1.0]heptane	96	C7H12	000286-08-8	49
2	Cyclohexene, 1-methyl-	96	C7H12	000591-49-1	46
3	(Z)-Hex-3-enyl isobutyl carbonate	200	C11H20O3	1000372-75-0	43
4	Bicyclo[3.1.0]hexane	82	C6H10	000285-58-5	43
5	2-Propanone, 1-(1H-pyrazol-1-yl)-	124	C6H8N2O	1000337-51-8	43





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU051419\
Data File : VU032011.D
Acq On : 14 May 2019 21:45
Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

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

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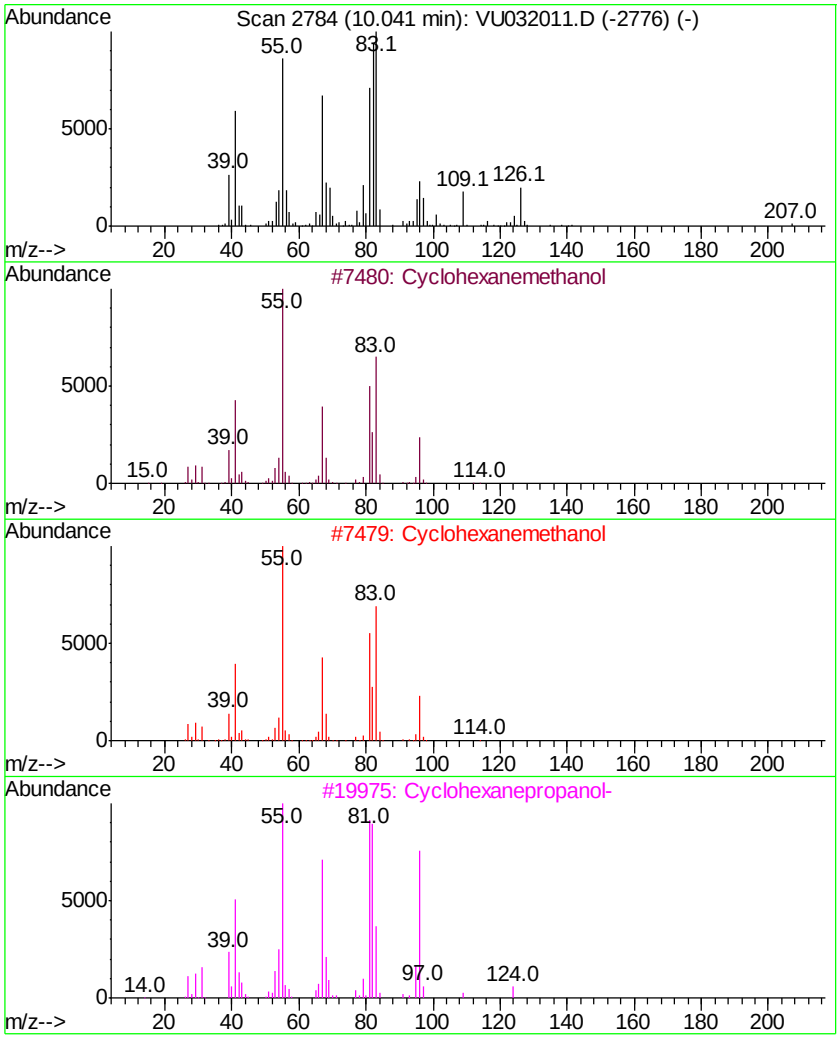
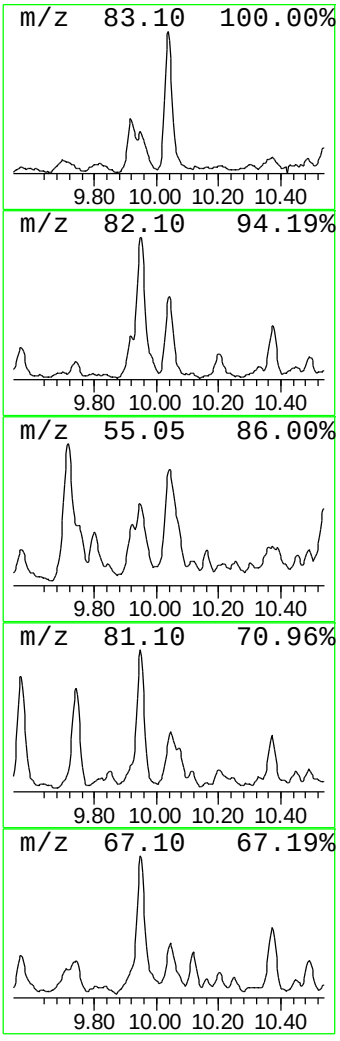
Peak Number 39 Cyclohexanemethanol Concentration Rank 74

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.04	7.68 ug/L	493938	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexanemethanol	114	C7H14O	000100-49-2	58
2	Cyclohexanemethanol	114	C7H14O	000100-49-2	58
3	Cyclohexanepropanol-	142	C9H18O	001124-63-6	52
4	Cyclohexaneethanol, acetate	170	C10H18O2	021722-83-8	50
5	Vinylcyclohexyl ether	126	C8H14O	002182-55-0	49





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Acq On : 14 May 2019 21:45
Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

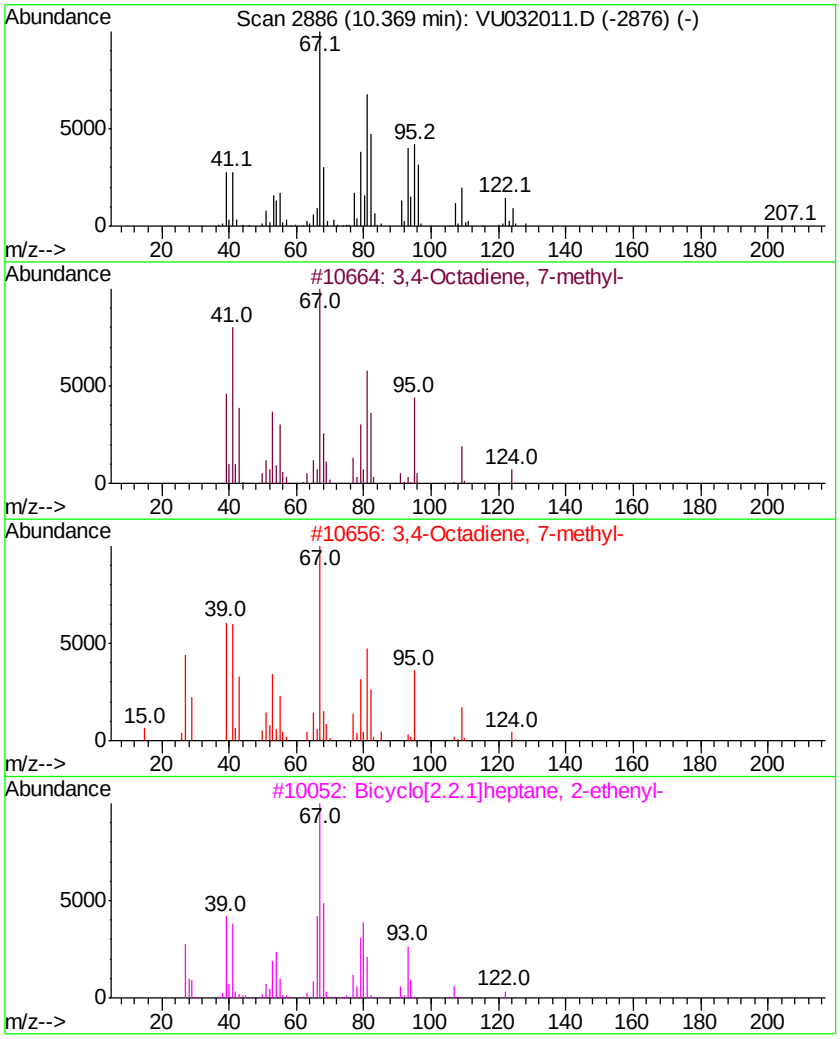
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

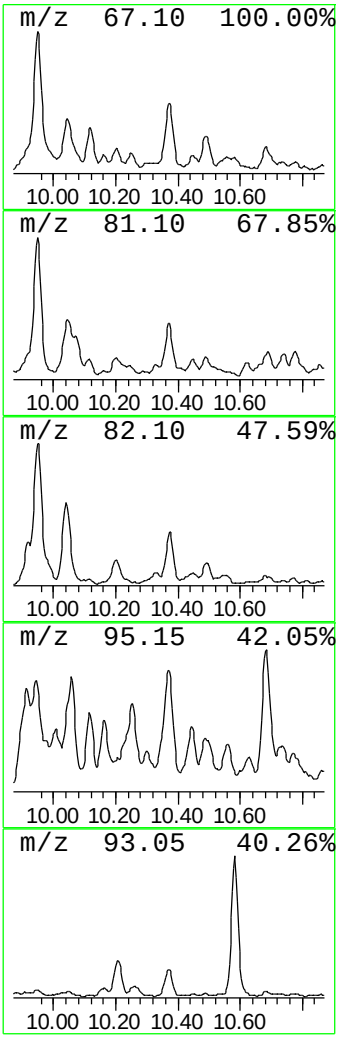
****

Peak Number 40 3,4-Octadiene, 7-methyl- Concentration Rank 77

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.37	6.11 ug/L	429785	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,4-Octadiene, 7-methyl-	124	C9H16	037050-05-8	76
2	3,4-Octadiene, 7-methyl-	124	C9H16	037050-05-8	52
3	Bicyclo[2.2.1]heptane, 2-ethenyl-	122	C9H14	002146-39-6	49
4	Cyclopropene, 1-butyl-2-ethyl-	124	C9H16	050915-91-8	47
5	Bicyclo[2.2.1]heptane, 2-ethenyl-	122	C9H14	002146-39-6	46





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Data File : VU032011.D
Acq On : 14 May 2019 21:45
Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

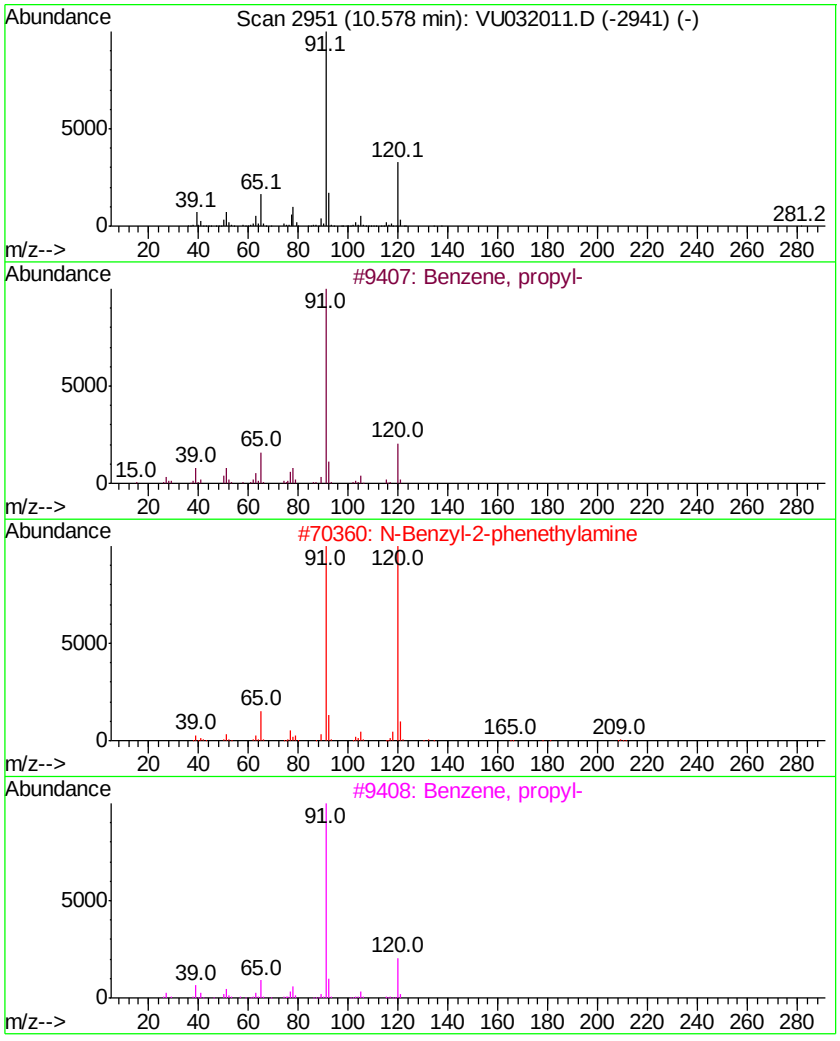
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

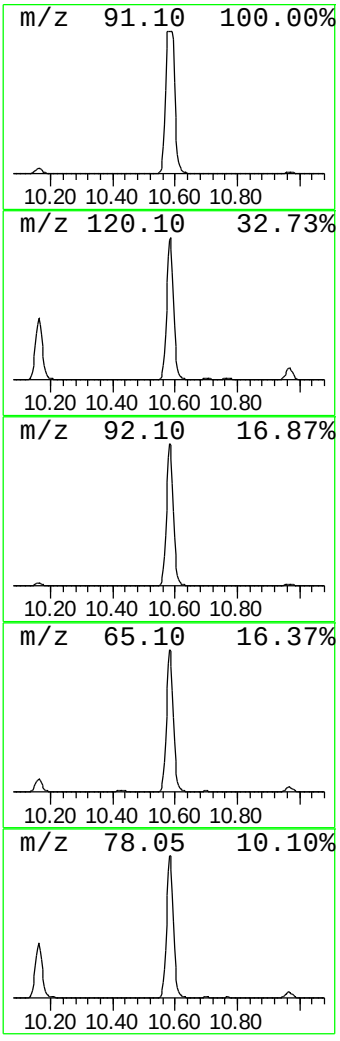
****

Peak Number 41 Benzene, propyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.58	613.84 ug/L	43159500	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, propyl-	120	C9H12	000103-65-1	91
2	N-Benzyl-2-phenethylamine	211	C15H17N	003647-71-0	72
3	Benzene, propyl-	120	C9H12	000103-65-1	70
4	N-Benzyl-2-phenethylamine	211	C15H17N	003647-71-0	59
5	N-Benzylglycine ethyl ester	193	C11H15NO2	006436-90-4	59





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Data File : VU032011.D
Acq On : 14 May 2019 21:45
Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

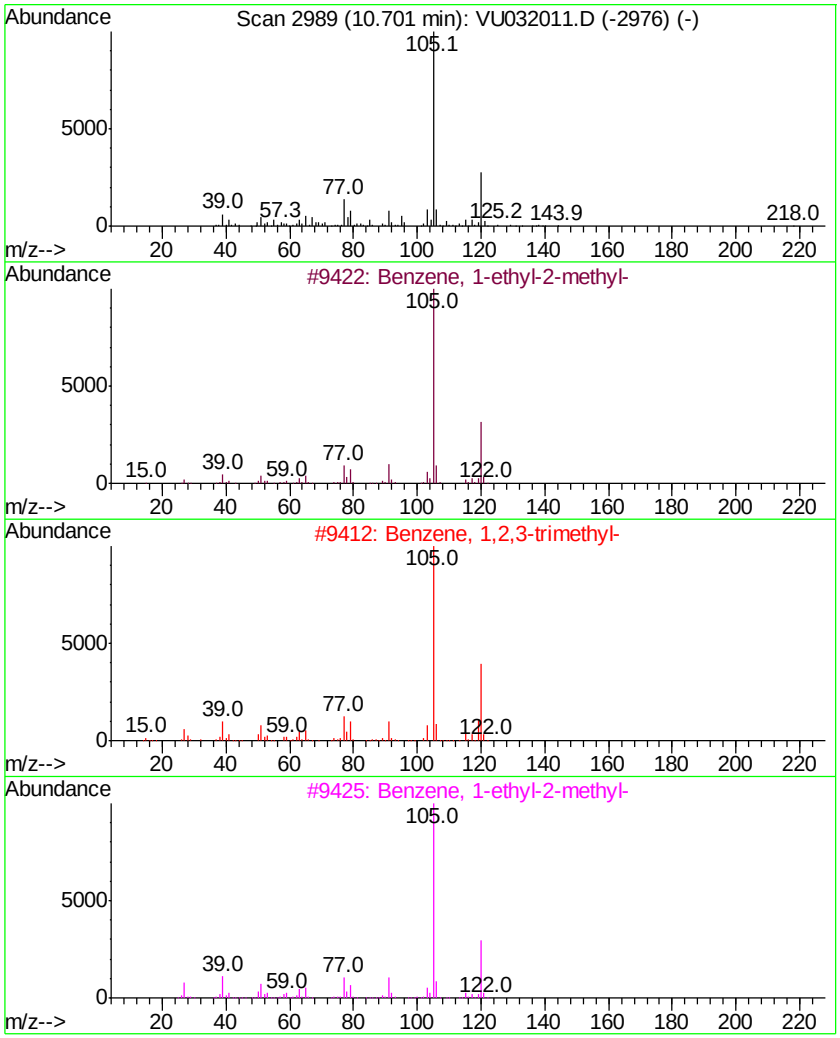
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

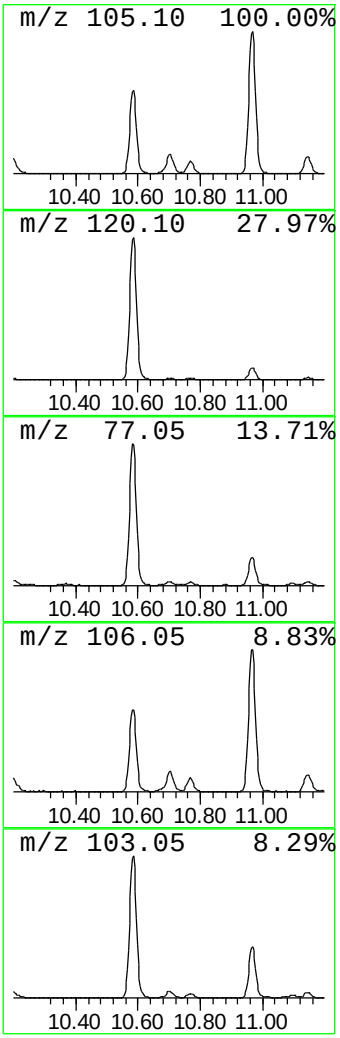
****

Peak Number 42 Benzene, 1-ethyl-2-methyl- Concentration Rank 66

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.70	9.70 ug/L	681699	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	94
2	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	91
3	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	90
4	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	87
5	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	87





Library Search Compound Report

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Data File : VU032011.D
Acq On : 14 May 2019 21:45
Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

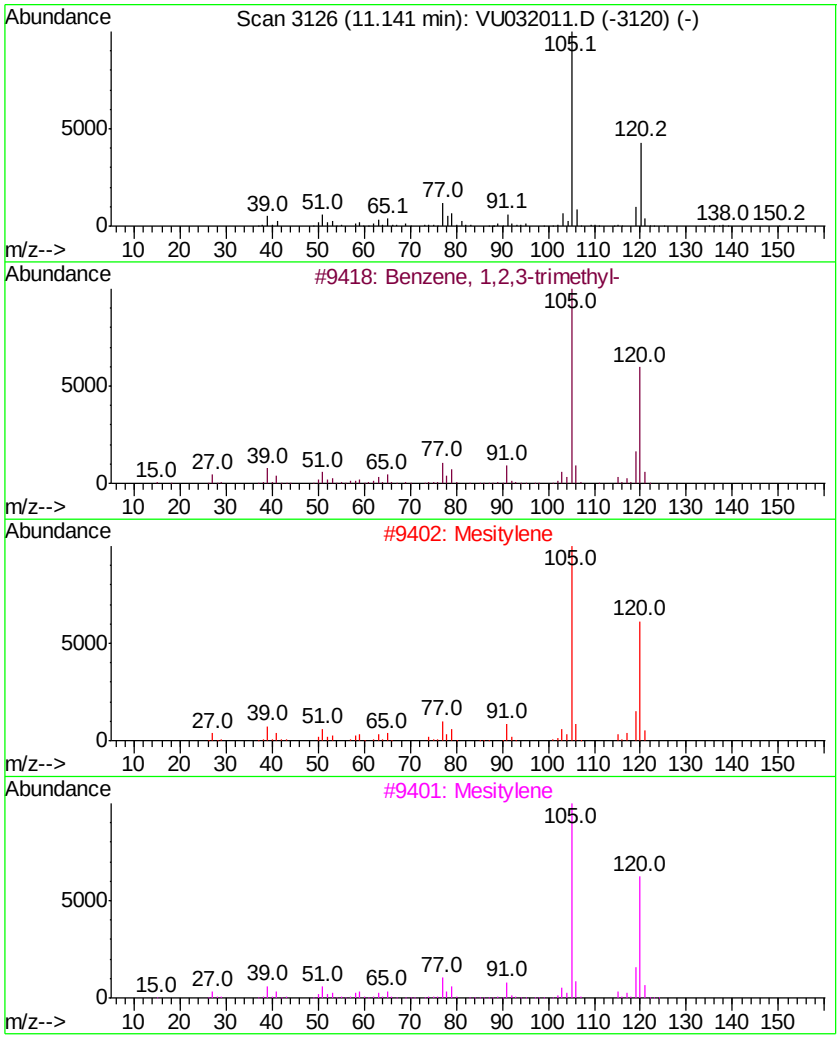
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

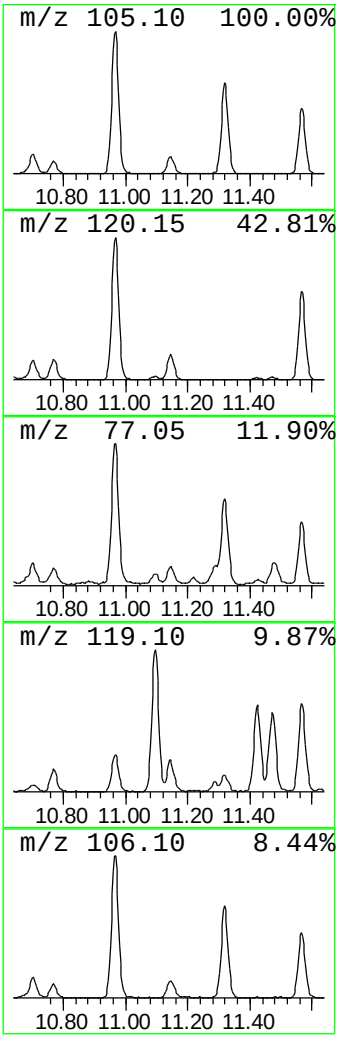
****

Peak Number 45 Benzene, 1,2,3-trimethyl- Concentration Rank 78

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.14	5.51 ug/L	387325	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	90
2	Mesitylene	120	C9H12	000108-67-8	87
3	Mesitylene	120	C9H12	000108-67-8	87
4	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	87
5	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	87





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Data File : VU032011.D
Acq On : 14 May 2019 21:45
Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

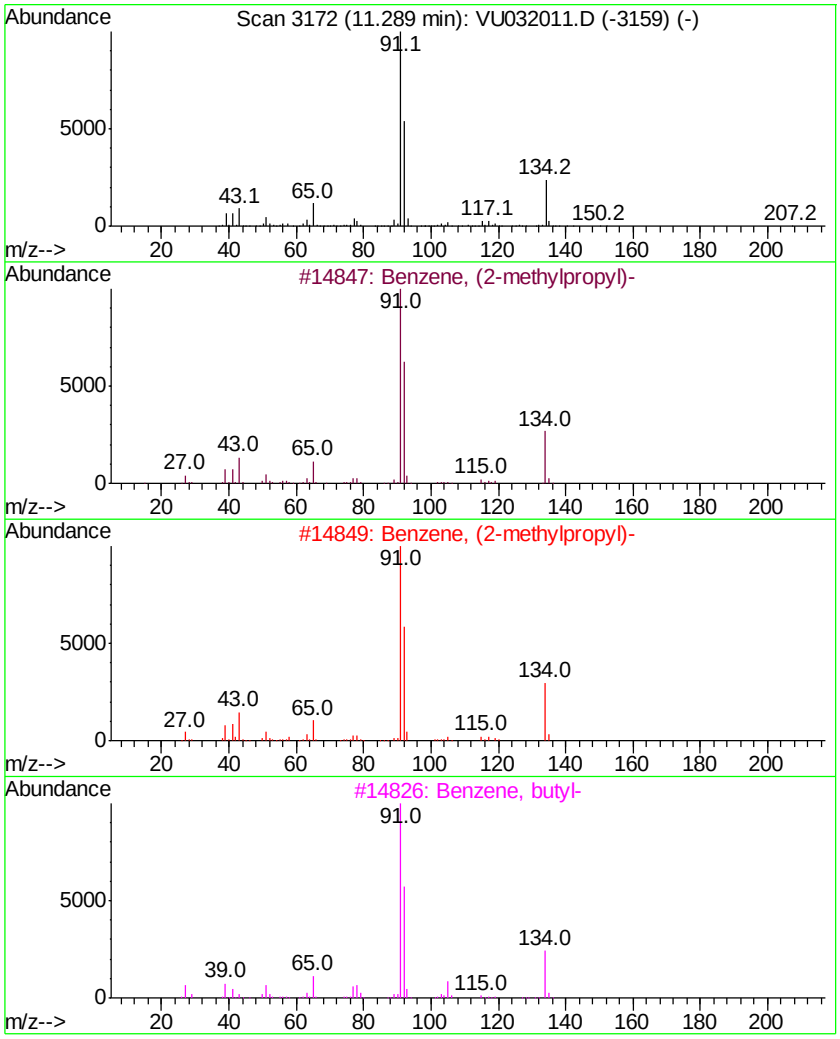
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

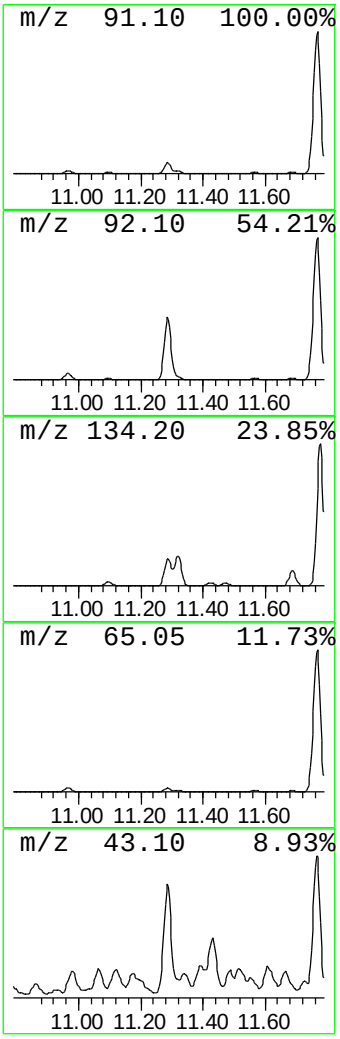
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 46 Benzene, (2-methylpropyl)- Concentration Rank 38

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.29	24.91 ug/L	1751390	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (2-methylpropyl)-	134	C10H14	000538-93-2	91
2	Benzene, (2-methylpropyl)-	134	C10H14	000538-93-2	91
3	Benzene, butyl-	134	C10H14	000104-51-8	86
4	Benzene, butyl-	134	C10H14	000104-51-8	80
5	Benzene, butyl-	134	C10H14	000104-51-8	78





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051419\
Data File : VU032011.D
Acq On : 14 May 2019 21:45
Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

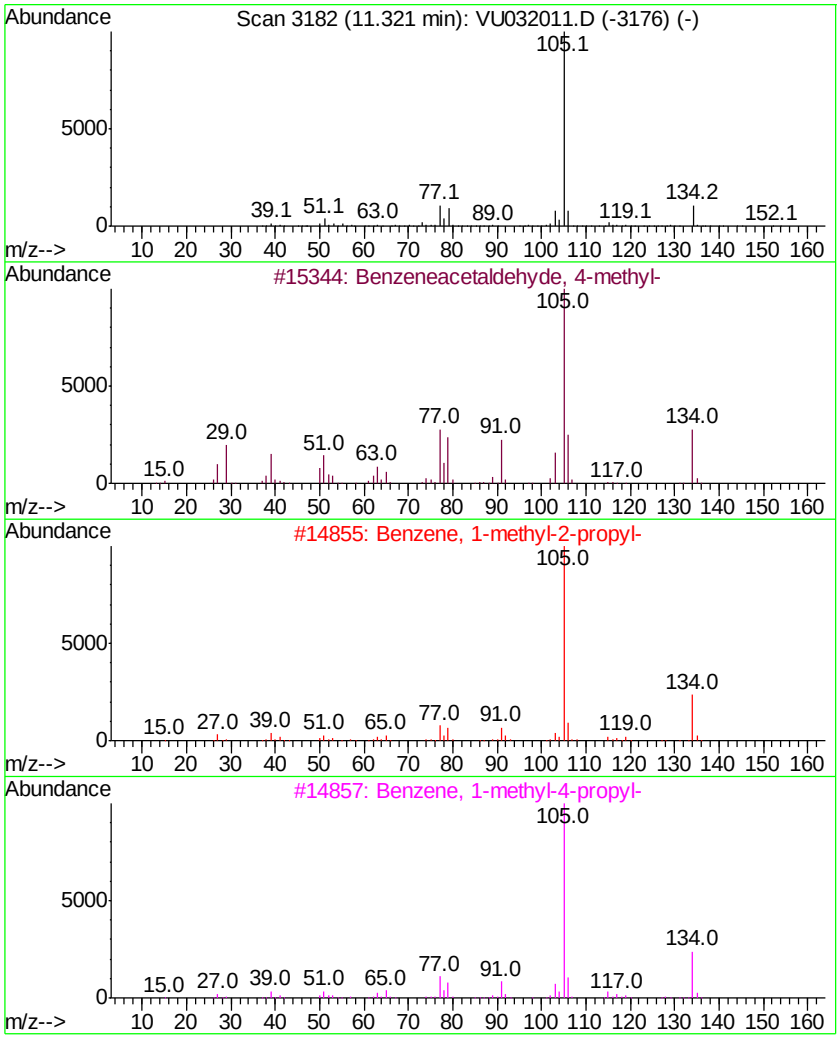
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

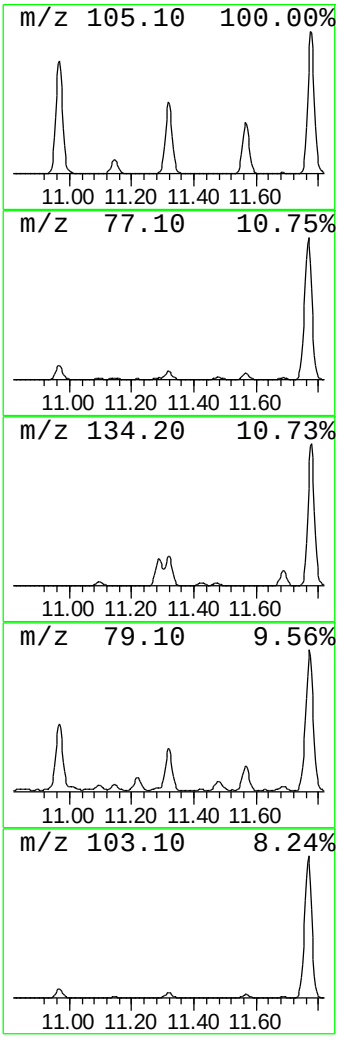
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 47 Benzeneacetaldehyde, 4-methyl- Concentration Rank 34

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.32	29.21 ug/L	2053560	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzeneacetaldehyde, 4-methyl-	134	C9H10O	000104-09-6	90
2	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	83
3	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	83
4	Oxirane, 2-methyl-2-phenyl-	134	C9H10O	002085-88-3	80
5	Benzeneacetaldehyde, .alpha.-met...	134	C9H10O	000093-53-8	80





Library Search Compound Report

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Data File : VU032011.D
Acq On : 14 May 2019 21:45
Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

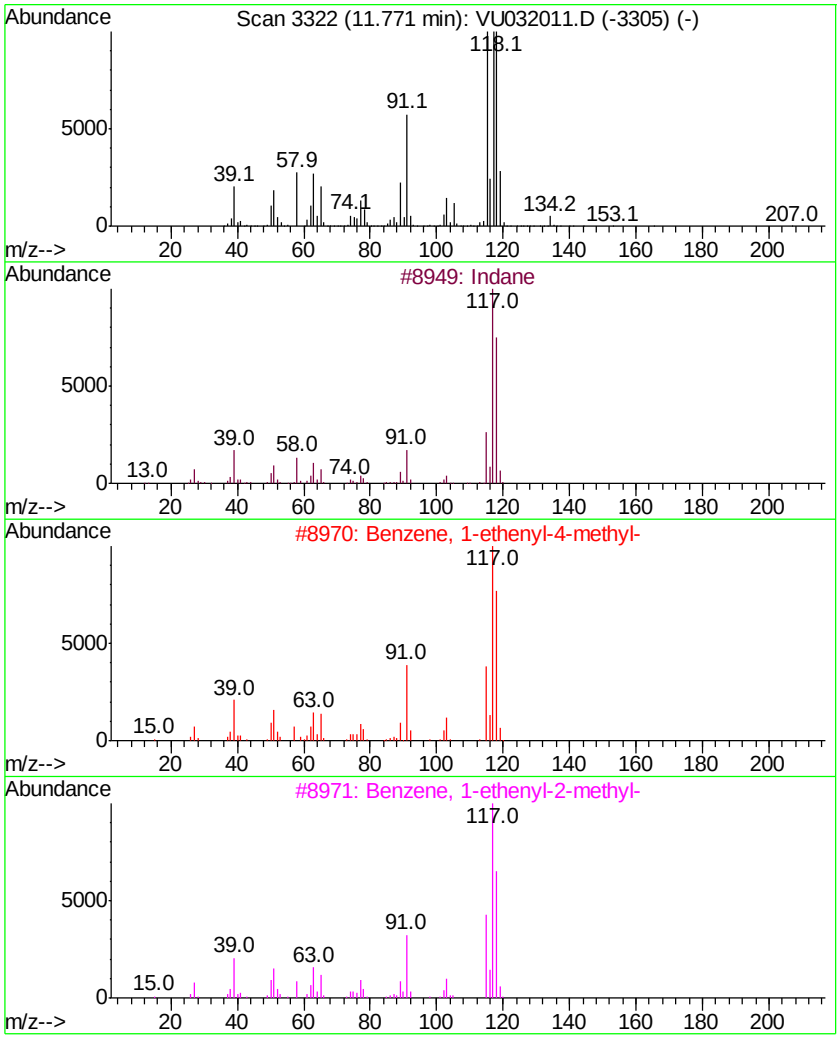
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

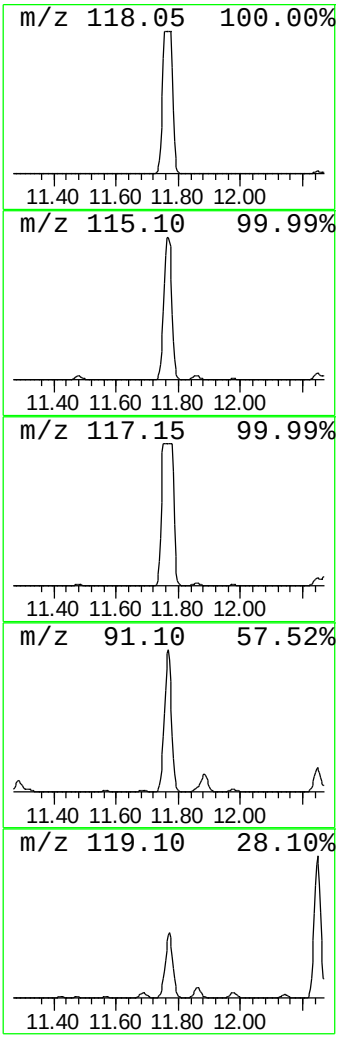
****

Peak Number 50 Indane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.77	1938.21 ug/L	136277000	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	93
2	Benzene, 1-ethenyl-4-methyl-	118	C9H10	000622-97-9	70
3	Benzene, 1-ethenyl-2-methyl-	118	C9H10	000611-15-4	64
4	Bicyclo[4.2.0]octa-1,3,5-triene,...	118	C9H10	022250-74-4	60
5	Bicyclo[4.2.0]octa-1,3,5-triene,...	118	C9H10	055337-80-9	55





Library Search Compound Report

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Data File : VU032011.D
Acq On : 14 May 2019 21:45
Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

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

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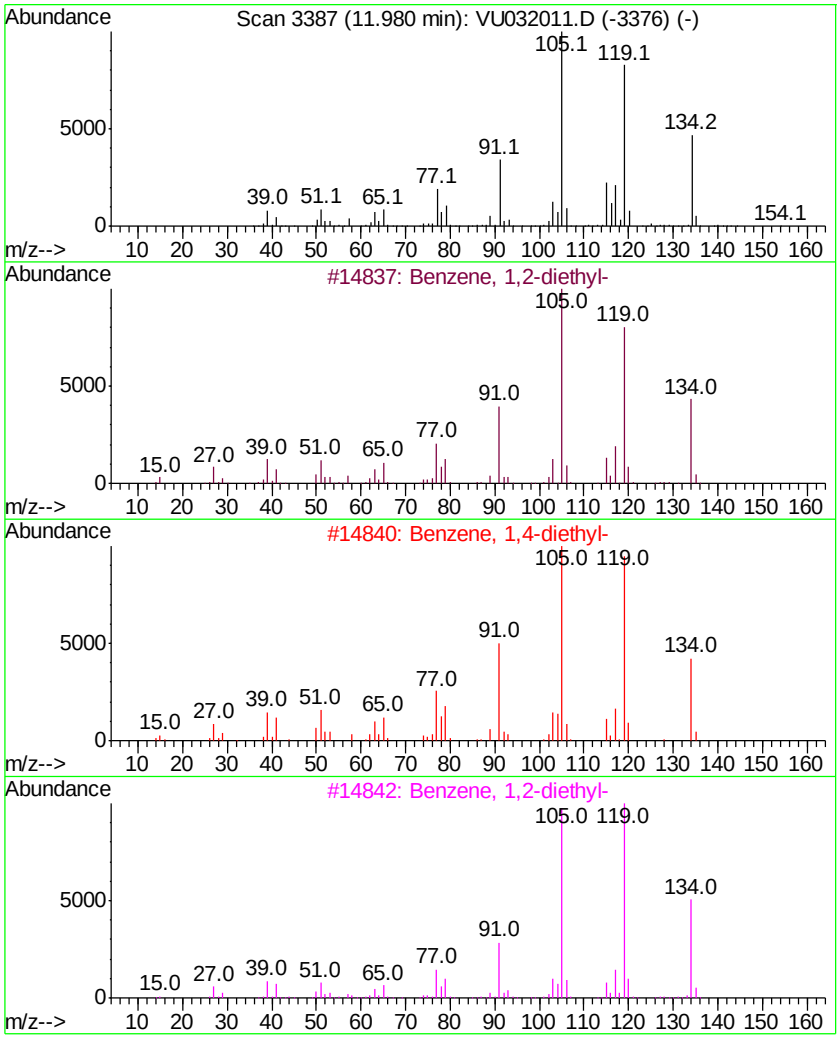
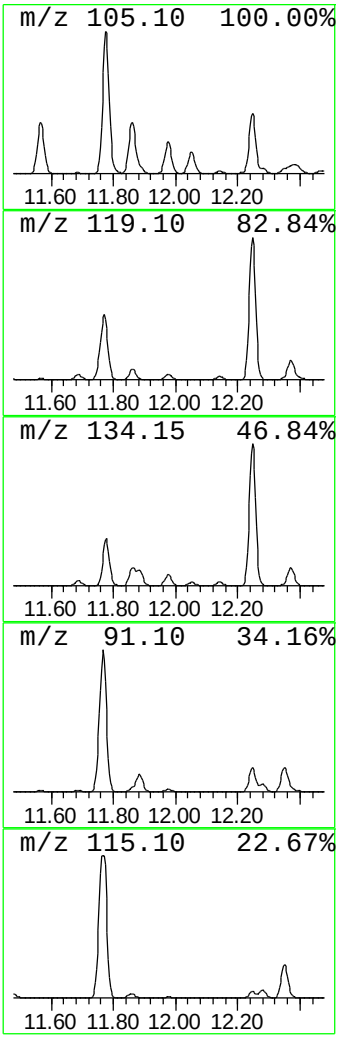
Peak Number 51 Benzene, 1,2-diethyl- Concentration Rank 36

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.98	26.85 ug/L	1887610	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2-diethyl-	134	C10H14	000135-01-3	94
2	Benzene, 1,4-diethyl-	134	C10H14	000105-05-5	86
3	Benzene, 1,2-diethyl-	134	C10H14	000135-01-3	81
4	Benzene, 1,3-diethyl-	134	C10H14	000141-93-5	81
5	Benzene, 1,4-diethyl-	134	C10H14	000105-05-5	76





Library Search Compound Report

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Data File : VU032011.D
Acq On : 14 May 2019 21:45
Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

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

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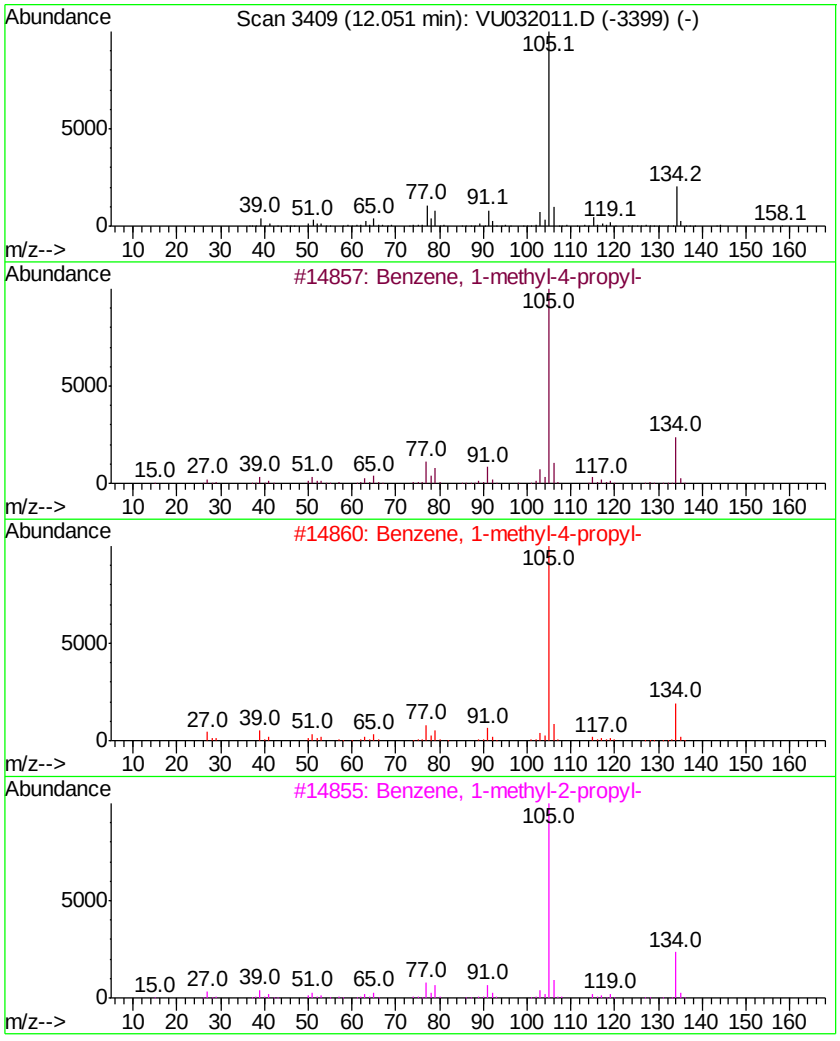
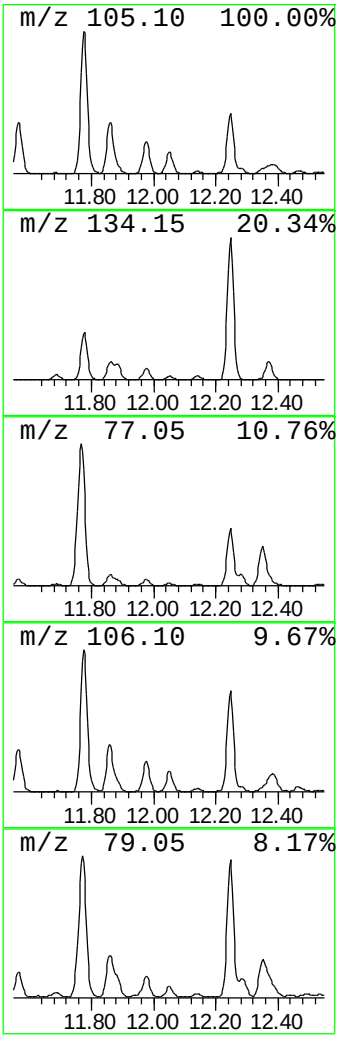
Peak Number 52 Benzene, 1-methyl-4-propyl- Concentration Rank 71

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.05	8.18 ug/L	575144	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	93
2	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	91
3	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	91
4	Benzene, (1-methylpropyl)-	134	C10H14	000135-98-8	91
5	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	90





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Acq On : 14 May 2019 21:45
Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

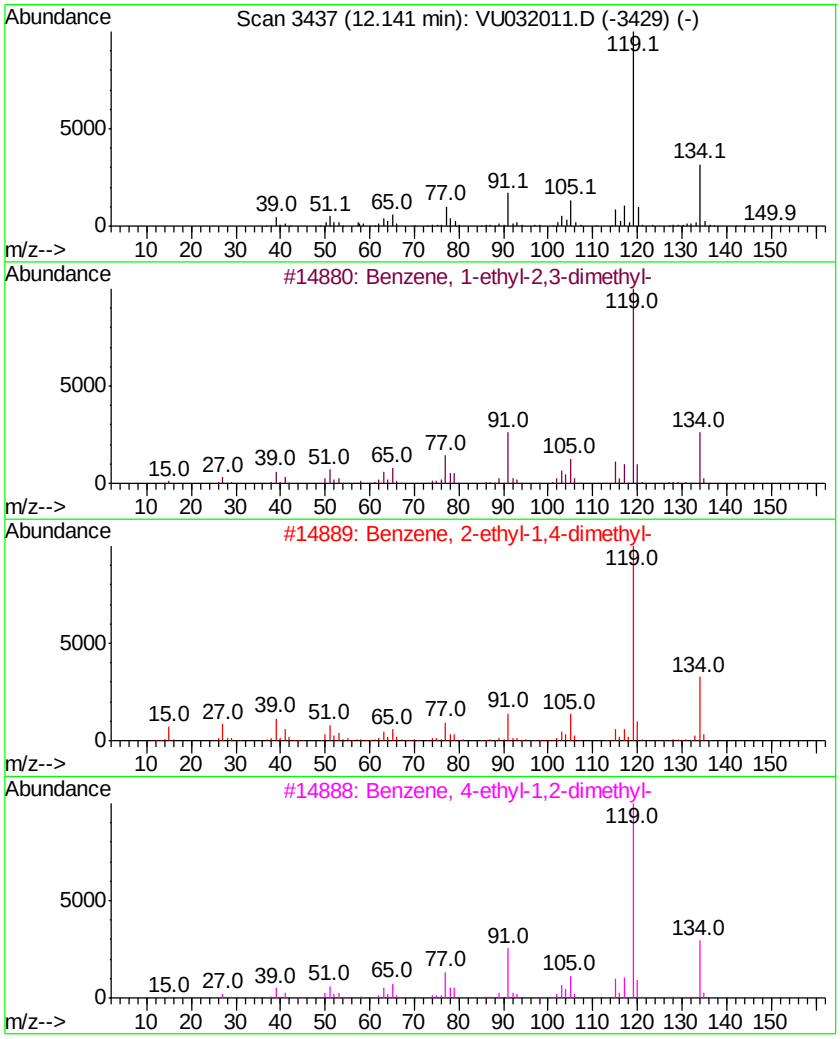
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

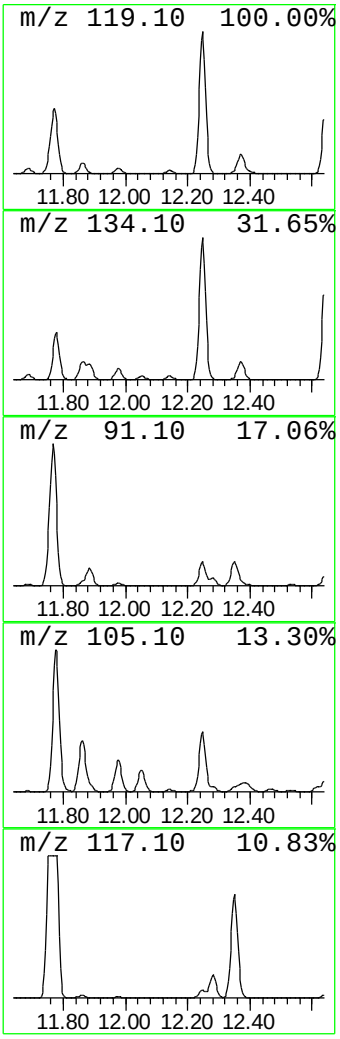
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 53 Benzene, 1-ethyl-2,3-dimethyl- Concentration Rank 73

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.14	7.72 ug/L	542854	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	95
2	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	94
3	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	94
4	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	93
5	o-Cymene	134	C10H14	000527-84-4	93





Library Search Compound Report

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Data File : VU032011.D
Acq On : 14 May 2019 21:45
Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

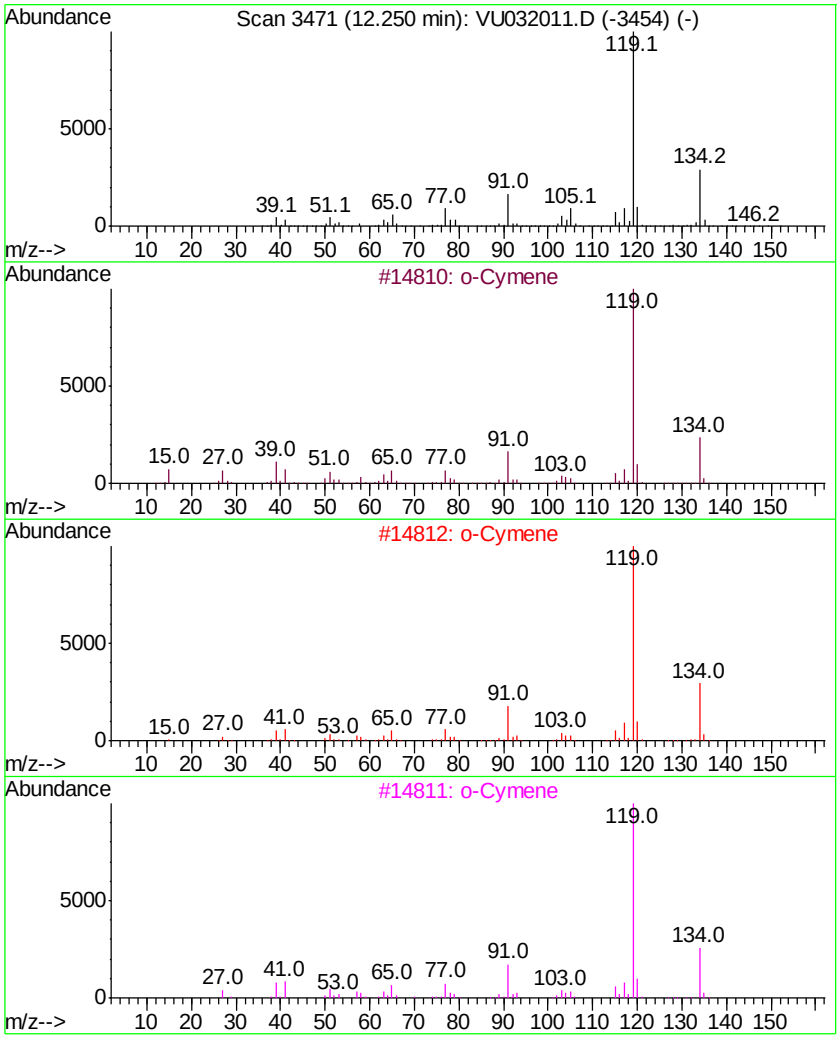
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

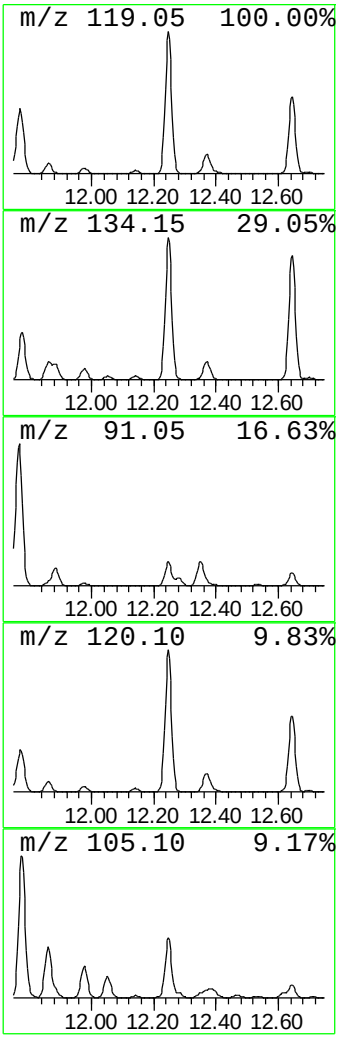
****

Peak Number 54 o-Cymene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.25	298.22 ug/L	20968000	1,4-Dichlorobenzene-d4	11.48

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





Library Search Compound Report

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Data File : VU032011.D
Acq On : 14 May 2019 21:45
Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

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

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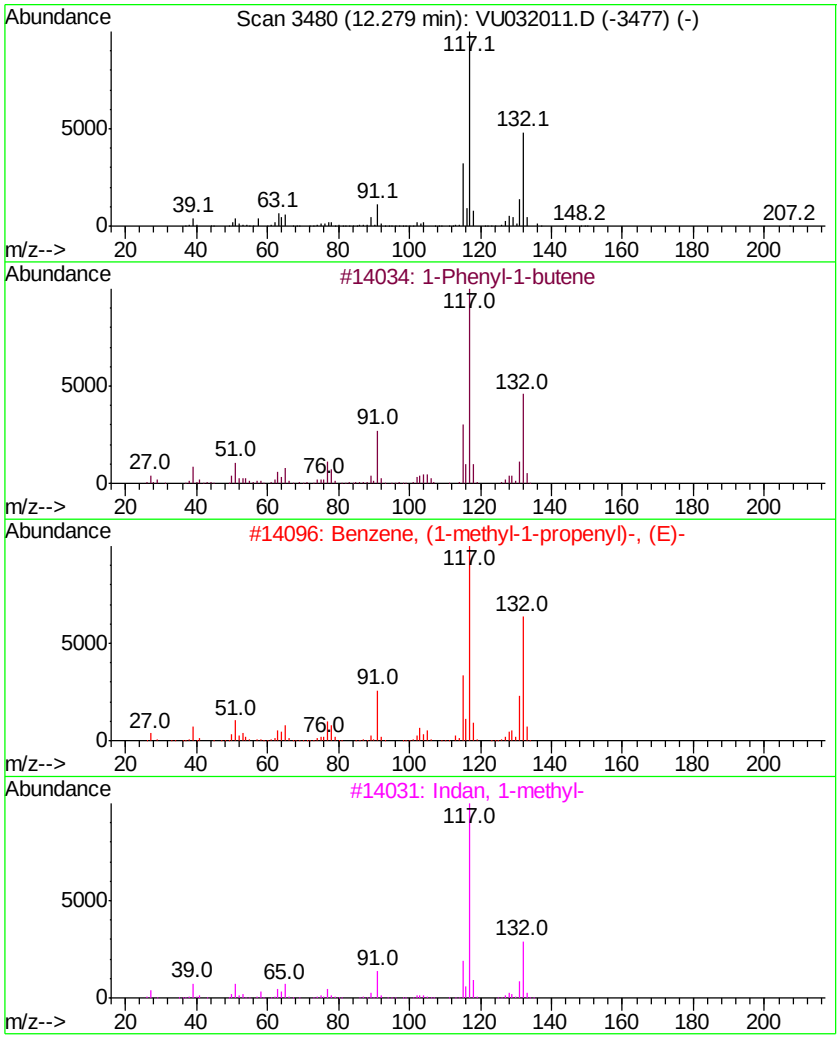
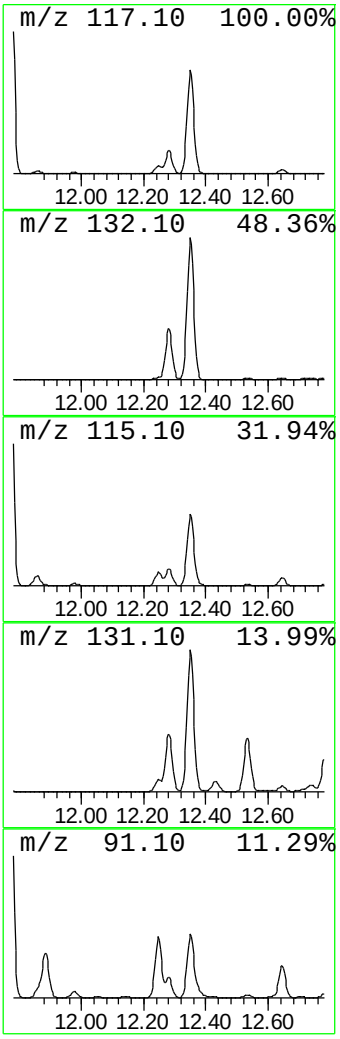
Peak Number 55 1-Phenyl-1-butene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.28	85.86 ug/L	6036640	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Phenyl-1-butene	132	C10H12	000824-90-8	90
2	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000768-00-3	87
3	Indan, 1-methyl-	132	C10H12	000767-58-8	87
4	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000767-99-7	87
5	Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	87





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051419\
Data File : VU032011.D
Acq On : 14 May 2019 21:45
Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

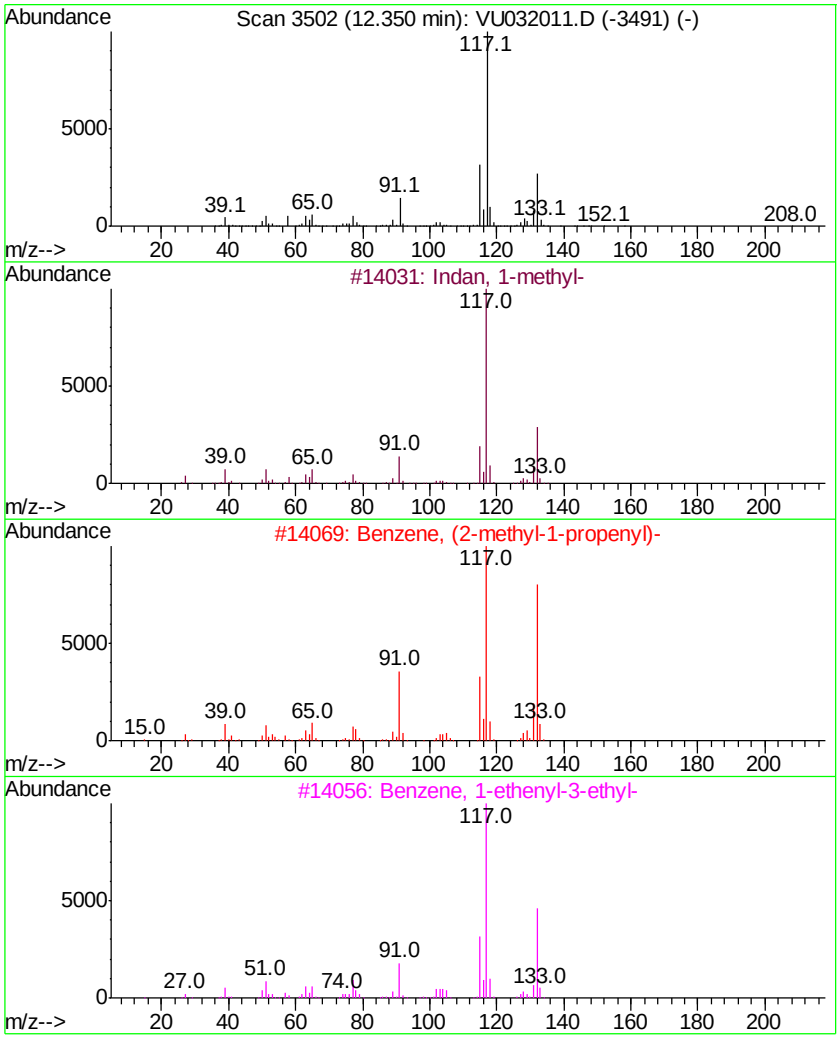
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

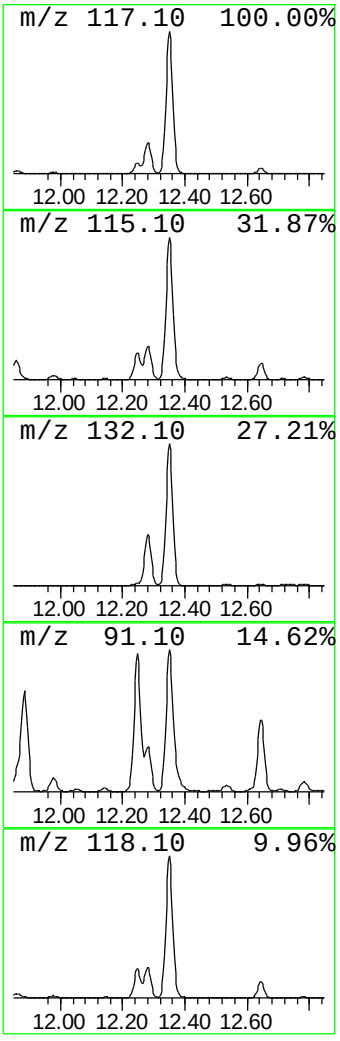
****

Peak Number 56 Indan, 1-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.35	412.71 ug/L	29018200	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indan, 1-methyl-	132	C10H12	000767-58-8	93
2	Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	90
3	Benzene, 1-ethenyl-3-ethyl-	132	C10H12	007525-62-4	90
4	Indan, 1-methyl-	132	C10H12	000767-58-8	87
5	Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	87





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU051419\
Data File : VU032011.D
Acq On : 14 May 2019 21:45
Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

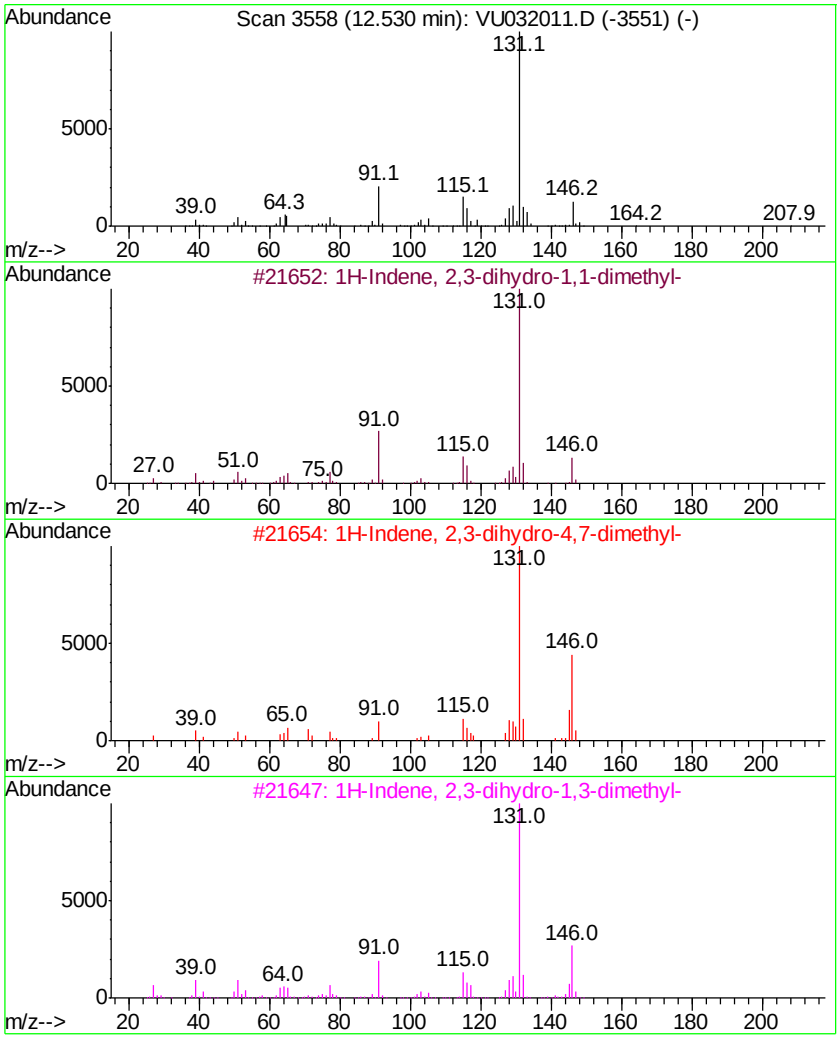
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

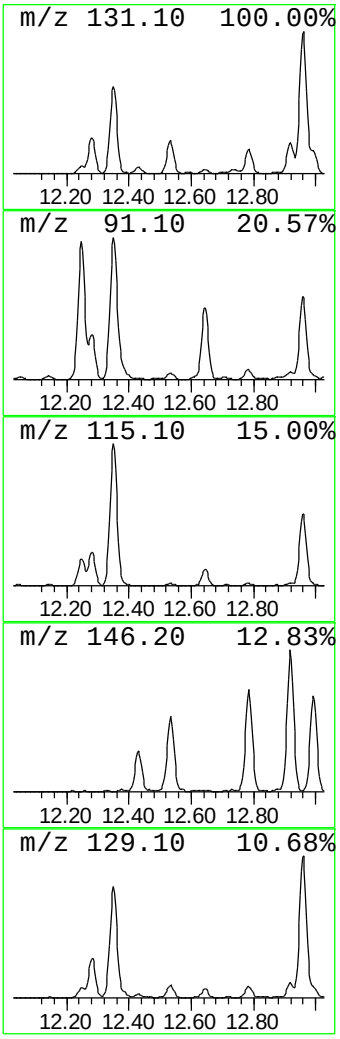
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 57 1H-Indene, 2,3-dihydro-1,1-... Concentration Rank 56

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.53	12.47 ug/L	876882	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-1,1-dimet...	146	C11H14	004912-92-9	93
2	1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	90
3	1H-Indene, 2,3-dihydro-1,3-dimet...	146	C11H14	004175-53-5	90
4	2,2-Dimethylindene, 2,3-dihydro-	146	C11H14	020836-11-7	87
5	1H-Indene, 2,3-dihydro-1,1-dimet...	146	C11H14	004912-92-9	87





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051419\
Data File : VU032011.D
Acq On : 14 May 2019 21:45
Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.M
Quant Title : VOC Analysis

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

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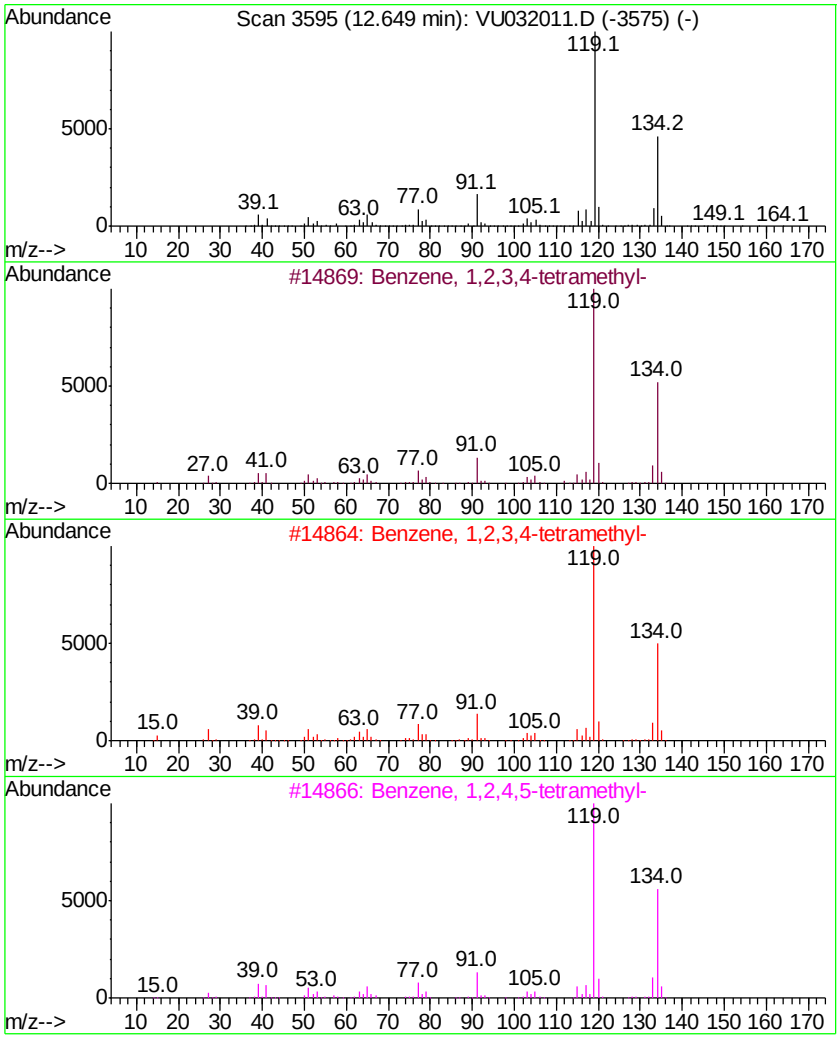
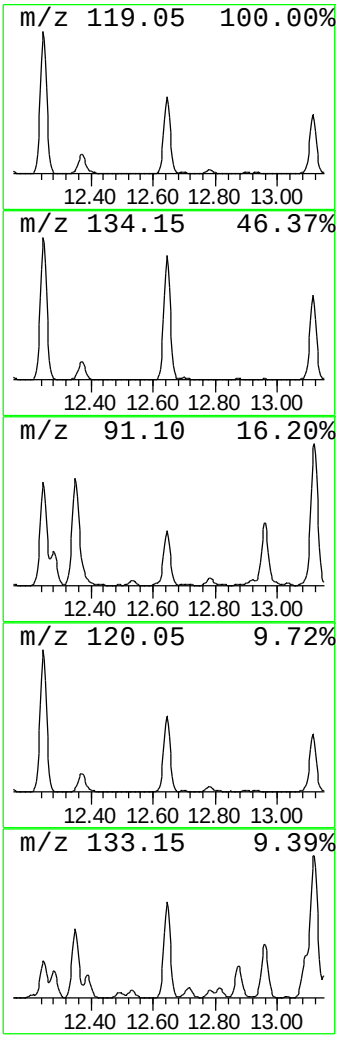
Peak Number 58 Benzene, 1,2,3,4-tetramethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.65	175.80 ug/L	12360700	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	97
2	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	97
3	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	97
4	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	96
5	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	95





Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU051419\
Data File : VU032011.D
Acq On : 14 May 2019 21:45
Operator : JC/SP
Sample : K2738-13
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB898

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM051419WMA.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: Str...	1.94	10.0	ug/L	533105	1	5.88	2654050	50.0
(DEL) Alkane: Str...	2.70	9.1	ug/L	483018	1	5.88	2654050	50.0
(DEL) Alkane: Str...	2.74	34.6	ug/L	1839200	1	5.88	2654050	50.0
(DEL) Alkane: Cyc...	2.79	26.0	ug/L	1382130	1	5.88	2654050	50.0
(DEL) Alkane: Str...	2.99	39.1	ug/L	2073560	1	5.88	2654050	50.0
(DEL) Alkane: Str...	3.30	42.4	ug/L	2252460	1	5.88	2654050	50.0
(DEL) Alkane: Cyc...	3.55	20.9	ug/L	1111030	1	5.88	2654050	50.0
(DEL) Alkane: Cyc...	3.65	14.4	ug/L	762418	1	5.88	2654050	50.0
Cyclopentene, 3-m...	3.73	10.6	ug/L	564277	1	5.88	2654050	50.0
(DEL) Alkane: Cyc...	3.89	11.6	ug/L	616726	1	5.88	2654050	50.0
(DEL) Alkane: Cyc...	4.09	344.6	ug/L	18289200	1	5.88	2654050	50.0
(DEL) Alkane: Str...	5.22	33.8	ug/L	1791920	1	5.88	2654050	50.0
(DEL) Alkane: Cyc...	5.48	55.3	ug/L	2934150	1	5.88	2654050	50.0
(DEL) Alkane: Str...	5.62	80.5	ug/L	4273710	1	5.88	2654050	50.0
(R)-(+)-3-Methylc...	5.78	12.7	ug/L	671551	1	5.88	2654050	50.0
(DEL) Alkane: Cyc...	5.94	42.8	ug/L	2273790	1	5.88	2654050	50.0
(DEL) Alkane: Cyc...	6.64	51.4	ug/L	2725670	1	5.88	2654050	50.0
(DEL) Alkane: Cyc...	6.73	9.0	ug/L	477918	1	5.88	2654050	50.0
Cyclohexene, 4-me...	6.84	106.5	ug/L	5654180	1	5.88	2654050	50.0
(DEL) Alkane: Cyc...	6.90	13.4	ug/L	709183	1	5.88	2654050	50.0
Cyclobutane, (1-m...	7.06	115.3	ug/L	6119390	1	5.88	2654050	50.0
2-Pentanol, 2-met...	7.36	13.1	ug/L	694801	1	5.88	2654050	50.0
(DEL) Alkane: Cyc...	7.71	34.2	ug/L	2201950	2	9.09	3215270	50.0
(DEL) Alkane: Cyc...	7.91	34.7	ug/L	2229750	2	9.09	3215270	50.0
(DEL) Alkane: Cyc...	8.04	27.5	ug/L	1766880	2	9.09	3215270	50.0
Cyclopentene, 1,2...	8.09	42.6	ug/L	2742030	2	9.09	3215270	50.0
(DEL) Alkane: Cyc...	8.49	15.9	ug/L	1020100	2	9.09	3215270	50.0
(DEL) Alkane: Cyc...	8.54	45.9	ug/L	2949730	2	9.09	3215270	50.0
Cyclohexene, 1,2-...	8.76	11.0	ug/L	709787	2	9.09	3215270	50.0
4-Ethylcyclohexene	8.87	10.9	ug/L	703027	2	9.09	3215270	50.0
unknown-01	9.01	19.2	ug/L	1232230	2	9.09	3215270	50.0
Pentalene, octahy...	9.18	37.6	ug/L	2416370	2	9.09	3215270	50.0
1,2-Dimethylcyclo...	9.49	9.4	ug/L	606083	2	9.09	3215270	50.0
Cyclohexene, 1-me...	9.57	9.9	ug/L	636755	2	9.09	3215270	50.0
(DEL) Alkane: Cyc...	9.72	9.3	ug/L	596402	2	9.09	3215270	50.0
unknown-02	9.95	17.6	ug/L	1129340	2	9.09	3215270	50.0
Cyclohexanemethanol	10.04	7.7	ug/L	493938	2	9.09	3215270	50.0
3,4-Octadiene, 7-...	10.37	6.1	ug/L	429785	3	11.48	3515530	50.0
Benzene, propyl-	10.58	613.8	ug/L	43159500	3	11.48	3515530	50.0
Benzene, 1-ethyl-...	10.70	9.7	ug/L	681699	3	11.48	3515530	50.0
Benzene, 1,2,3-tr...	11.14	5.5	ug/L	387325	3	11.48	3515530	50.0
Benzene, (2-methy...	11.29	24.9	ug/L	1751390	3	11.48	3515530	50.0
Benzeneacetaldehy...	11.32	29.2	ug/L	2053560	3	11.48	3515530	50.0
Indane	11.77	1938.2	ug/L	136277000	3	11.48	3515530	50.0
Benzene, 1,2-diet...	11.98	26.9	ug/L	1887610	3	11.48	3515530	50.0
Benzene, 1-methyl...	12.05	8.2	ug/L	575144	3	11.48	3515530	50.0
Benzene, 1-ethyl-...	12.14	7.7	ug/L	542854	3	11.48	3515530	50.0
o-Cymene	12.25	298.2	ug/L	20968000	3	11.48	3515530	50.0
1-Phenyl-1-butene	12.28	85.9	ug/L	6036640	3	11.48	3515530	50.0

Indan, 1-methyl-	12.35	412.7	ug/L	29018200	3	11.48	3515530	50.0
1H-Indene, 2,3-di...	12.53	12.5	ug/L	876882	3	11.48	3515530	50.0
Benzene, 1,2,3,4-...	12.65	175.8	ug/L	12360700	3	11.48	3515530	50.0

Instrument :
MSVOA_U
ClientSampleId :
DB898