LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122418\
Data File : VU028941.D
Acq On : 24 Dec 2018 12:42
Operator : MD/SY
Sample : J6489-07
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F75

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\SOMULM122018WMA.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	1.283	24	34	41	rBV2	17087	38015	3.79%	0.329%
2	1.321	42	46	54	rVB	9360	12058	1.20%	0.104%
3	1.395	62	69	82	rVB	116778	140812	14.05%	1.218%
4	1.543	111	115	116	rBV3	2641	1808	0.18%	0.016%
5	1.620	134	139	141	rBV	23492	22065	2.20%	0.191%
6	1.640	141	145	158	rVB	70850	77068	7.69%	0.667%
7	2.144	299	302	314	rVB6	2601	3874	0.39%	0.034%
8	2.235	319	330	345	rVB	225178	340043	33.92%	2.942%
9	2.341	357	363	372	rBV6	1402	2594	0.26%	0.022%
10	2.627	443	452	461	rBV2	2070	3566	0.36%	0.031%
11	2.688	461	471	472	rBV4	2627	3485	0.35%	0.030%
12	2.829	503	515	529	rBV2	7014	15811	1.58%	0.137%
13	2.903	533	538	541	rVV2	713	837	0.08%	0.007%
14	2.923	541	544	545	rVV2	785	535	0.05%	0.005%
15	2.961	545	556	570	rVB6	2623	6522	0.65%	0.056%
16	3.906	846	850	851	rBV	528	323	0.03%	0.003%
17	3.997	875	878	879	rBV2	608	357	0.04%	0.003%
18	4.061	892	898	914	rVB5	2080	4556	0.45%	0.039%
19	4.189	925	938	985	rBV	65374	221869	22.13%	1.920%
20	4.643	1059	1079	1112	rBV	155938	375604	37.47%	3.250%
21	4.881	1149	1153	1160	rVB2	441	587	0.06%	0.005%
22	4.971	1173	1181	1182	rBV3	2606	2391	0.24%	0.021%
23	5.067	1199	1211	1221	rBV5	2230	5156	0.51%	0.045%
24	5.205	1245	1254	1255	rBV2	1978	2468	0.25%	0.021%
25	5.328	1271	1292	1325	rVV2	349156	977930	97.56%	8.462%
26	5.469	1328	1336	1346	rVB5	1938	3791	0.38%	0.033%
27	5.540	1354	1358	1368	rVB5	1922	2987	0.30%	0.026%
28	5.611	1368	1380	1397	rVB3	10422	24096	2.40%	0.209%
29	5.881	1445	1464	1490	rBV	237861	493020	49.19%	4.266%
30	6.144	1542	1546	1547	rVV2	706	549	0.05%	0.005%
31	6.151	1547	1548	1553	rVV3	833	795	0.08%	0.007%
32	6.254	1569	1580	1588	rBV5	2059	4386	0.44%	0.038%
33	6.328	1588	1603	1619	rBV	209594	445768	44.47%	3.857%
34	6.469	1638	1647	1656	rVB7	2313	4230	0.42%	0.037%

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122418\
Data File : VU028941.D
Acq On : 24 Dec 2018 12:42
Operator : MD/SY
Sample : J6489-07
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F75

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\SOMULM122018WMA.M
Title : VOC Analysis

35	6.527	1656	1665	1675	rVB4	1839	3112	0.31%	0.027%
36	6.636	1686	1699	1711	rBV7	5438	11292	1.13%	0.098%
37	6.733	1716	1729	1741	rBV4	8248	16513	1.65%	0.143%
38	6.816	1747	1755	1756	rBV3	1453	1409	0.14%	0.012%
39	6.832	1756	1760	1768	rVB3	1354	1857	0.19%	0.016%
40	6.897	1768	1780	1789	rBV6	8659	18604	1.86%	0.161%
41	6.951	1796	1797	1802	rVB	542	311	0.03%	0.003%
42	6.996	1805	1811	1813	rBV3	857	722	0.07%	0.006%
43	7.041	1824	1825	1830	rVB2	749	379	0.04%	0.003%
44	7.106	1830	1845	1852	rBV7	4569	10523	1.05%	0.091%
45	7.225	1870	1882	1902	rBV	125945	250176	24.96%	2.165%
46	7.331	1911	1915	1918	rBV5	1255	1303	0.13%	0.011%
47	7.373	1921	1928	1935	rVB7	1988	3236	0.32%	0.028%
48	7.427	1935	1945	1956	rVB9	4211	9957	0.99%	0.086%
49	7.562	1958	1987	2015	rBV	465826	927403	92.52%	8.025%
50	7.697	2019	2029	2037	rBV5	12459	22837	2.28%	0.198%
51	7.768	2046	2051	2064	rVB3	21940	39678	3.96%	0.343%
52	7.848	2064	2076	2088	rBV	86686	167134	16.67%	1.446%
53	7.913	2089	2096	2113	rVB3	26980	54108	5.40%	0.468%
54	7.996	2113	2122	2125	rBV7	4404	6476	0.65%	0.056%
55	8.041	2127	2136	2144	rBV2	15521	24021	2.40%	0.208%
56	8.090	2144	2151	2160	rBV2	12677	19808	1.98%	0.171%
57	8.221	2186	2192	2200	rVB9	2605	4277	0.43%	0.037%
58	8.273	2201	2208	2211	rBV4	2660	3092	0.31%	0.027%
59	8.324	2211	2224	2238	rBV	341369	644275	64.28%	5.575%
60	8.543	2283	2292	2301	rVB	34316	55679	5.55%	0.482%
61	8.604	2301	2311	2319	rBV2	38313	72436	7.23%	0.627%
62	8.758	2343	2359	2370	rBV4	25200	51785	5.17%	0.448%
63	8.848	2370	2387	2391	rBV3	16504	34440	3.44%	0.298%
64	8.955	2413	2420	2423	rBV4	3982	5708	0.57%	0.049%
65	9.025	2435	2442	2451	rVB3	18954	32157	3.21%	0.278%
66	9.090	2451	2462	2475	rBV	337797	595913	59.45%	5.157%
67	9.241	2505	2509	2516	rVB6	7218	8727	0.87%	0.076%
68	9.347	2534	2542	2549	rBV6	18529	33117	3.30%	0.287%
69	9.450	2566	2574	2600	rVB6	27863	75490	7.53%	0.653%
70	9.569	2600	2611	2616	rBV6	17321	32450	3.24%	0.281%
71	9.717	2644	2657	2666	rBV3	50746	103450	10.32%	0.895%

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122418\
Data File : VU028941.D
Acq On : 24 Dec 2018 12:42
Operator : MD/SY
Sample : J6489-07
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F75

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\SOMULM122018WMA.M
Title : VOC Analysis

72	9.823	2679	2690	2701	rBV8	27129	57273	5.71%	0.496%
73	9.948	2714	2729	2739	rBV2	105644	194360	19.39%	1.682%
74	10.044	2751	2759	2767	rBV7	31245	58916	5.88%	0.510%
75	10.163	2788	2796	2803	rBV4	20787	36958	3.69%	0.320%
76	10.250	2820	2823	2831	rVB	18737	21080	2.10%	0.182%
77	10.321	2832	2845	2850	rBV6	43427	87734	8.75%	0.759%
78	10.437	2870	2881	2892	rBV	377930	668363	66.68%	5.784%
79	10.697	2957	2962	2969	rVB5	18717	26229	2.62%	0.227%
80	10.749	2970	2978	2989	rBV2	54482	88139	8.79%	0.763%
81	10.929	3025	3034	3041	rBV3	47480	82226	8.20%	0.712%
82	11.112	3084	3091	3104	rBV	89122	137834	13.75%	1.193%
83	11.331	3153	3159	3169	rVB5	59115	97594	9.74%	0.845%
84	11.398	3172	3180	3186	rBV3	42741	74472	7.43%	0.644%
85	11.485	3198	3207	3216	rBV	409636	633967	63.25%	5.486%
86	11.530	3217	3221	3227	rVB	45209	52108	5.20%	0.451%
87	11.569	3228	3233	3239	rBV	36120	42192	4.21%	0.365%
88	11.610	3240	3246	3254	rVB2	38177	50021	4.99%	0.433%
89	11.700	3269	3274	3289	rVB4	50704	74601	7.44%	0.646%
90	11.861	3314	3324	3342	rVB	596829	1002366	100.00%	8.674%
91	12.183	3418	3424	3430	rBV2	39473	52637	5.25%	0.455%
92	12.360	3472	3479	3484	rBV2	69487	103362	10.31%	0.894%
93	12.511	3521	3526	3544	rVB9	75730	169011	16.86%	1.463%
94	12.610	3548	3557	3562	rBV2	128035	207745	20.73%	1.798%
95	12.723	3580	3592	3604	rVB8	56917	156290	15.59%	1.352%
96	12.880	3635	3641	3659	rBV6	42956	106946	10.67%	0.925%
97	13.125	3710	3717	3721	rBV3	62097	93422	9.32%	0.808%
98	13.279	3757	3765	3772	rBV	164407	275417	27.48%	2.383%
99	13.790	3917	3924	3937	rBV5	60534	162329	16.19%	1.405%
100	14.337	4087	4094	4103	rBV8	101248	158888	15.85%	1.375%

Sum of corrected areas: 11556291

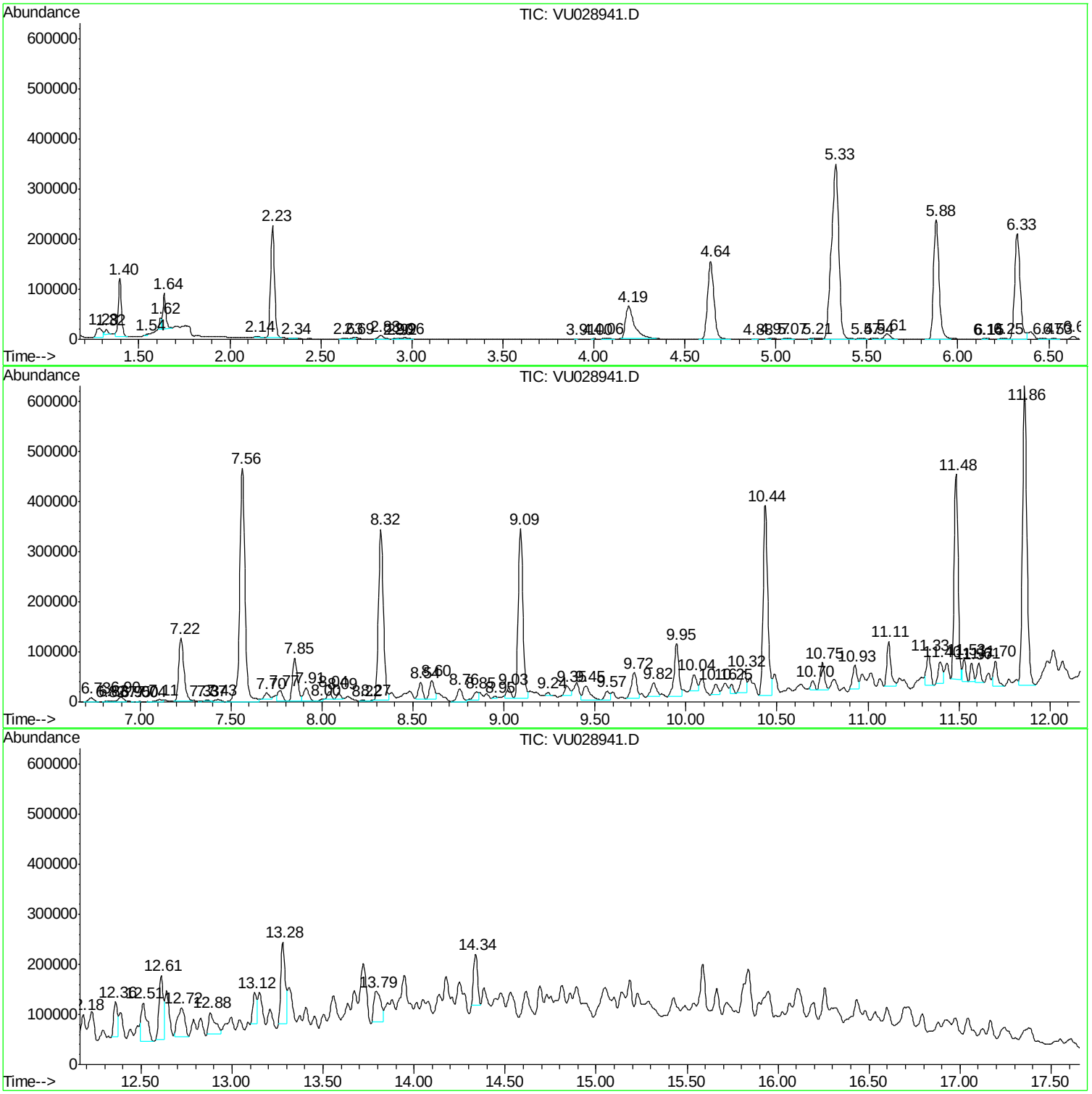
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122418\
Data File : VU028941.D
Acq On : 24 Dec 2018 12:42
Operator : MD/SY
Sample : J6489-07
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F75

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.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\VU122418\
Data File : VU028941.D
Acq On : 24 Dec 2018 12:42
Operator : MD/SY
Sample : J6489-07
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F75

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

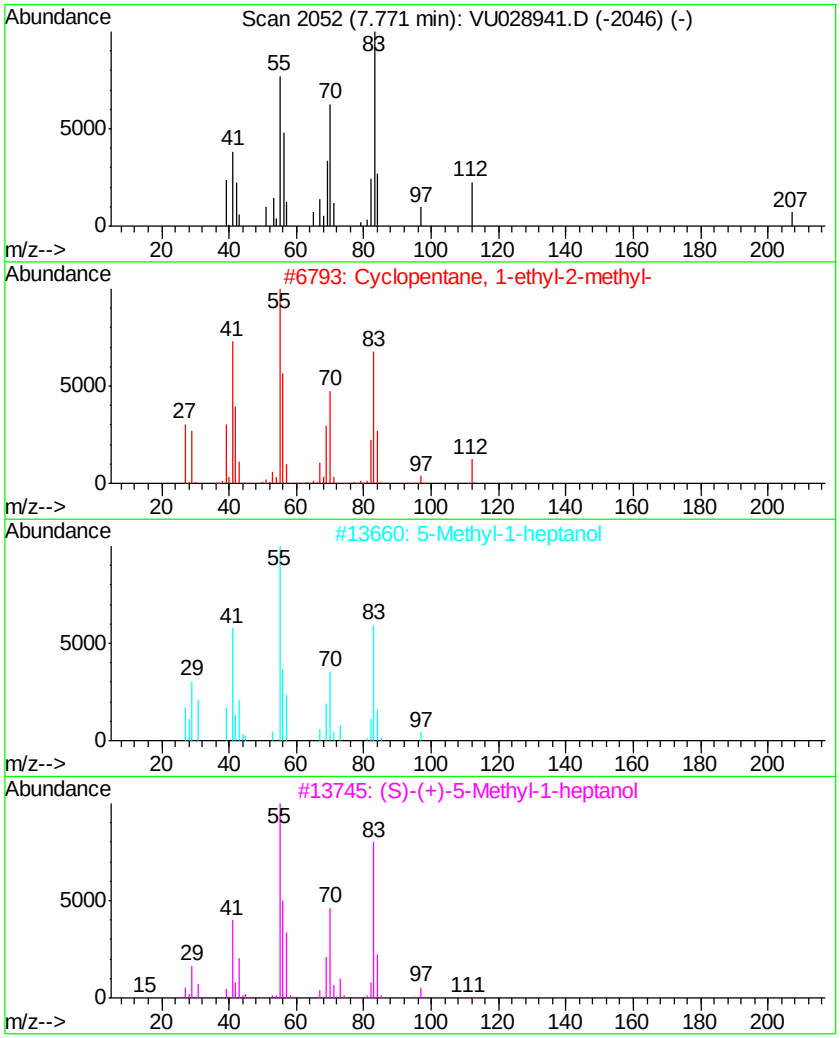
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

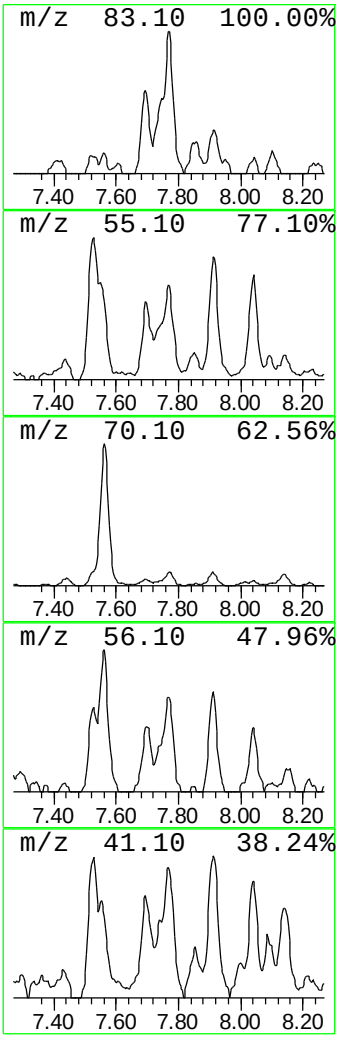
****

Peak Number 2 (DEL) Alkane: Cyclic7.77 Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.77	3.33 ug/L	39678	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1-ethyl-2-methyl-	112	C8H16	003726-46-3	72
2	5-Methyl-1-heptanol	130	C8H18O	007212-53-5	64
3	(S)-(+)-5-Methyl-1-heptanol	130	C8H18O	057803-73-3	64
4	Cyclooctane	112	C8H16	000292-64-8	50
5	1-Ethyl-2-(4-methylpentyl)cyclop...	182	C13H26	219726-60-0	47





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122418\
Data File : VU028941.D
Acq On : 24 Dec 2018 12:42
Operator : MD/SY
Sample : J6489-07
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F75

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

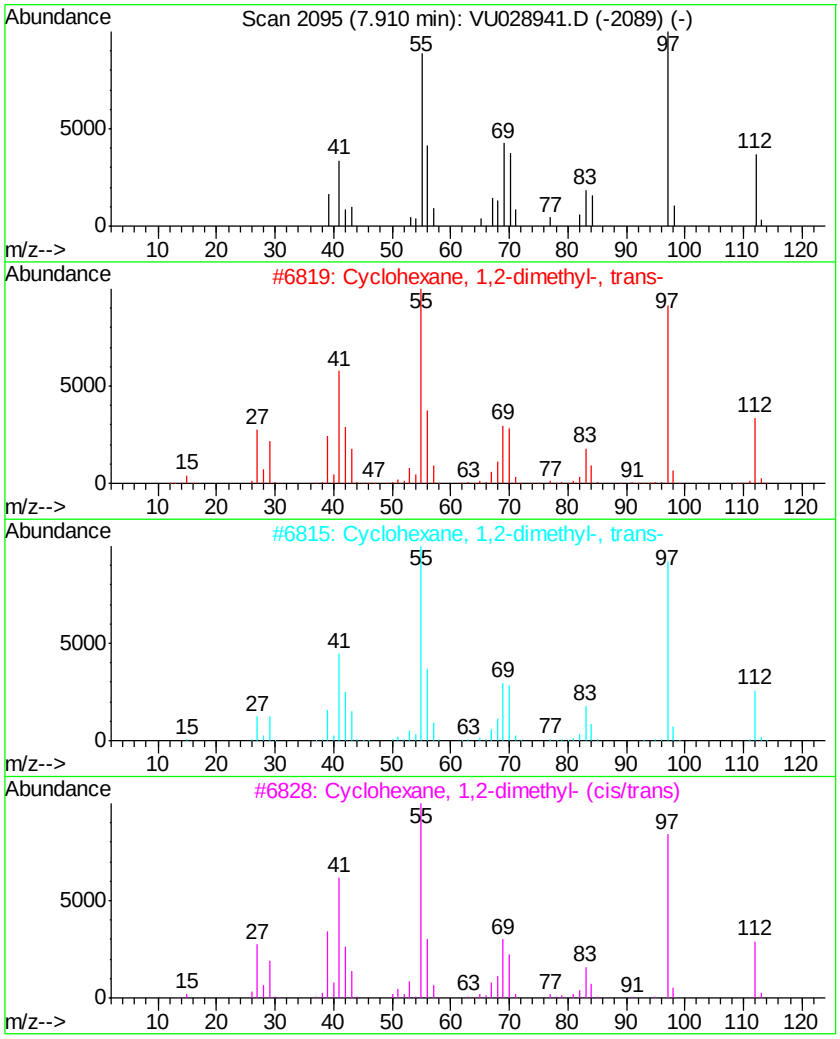
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

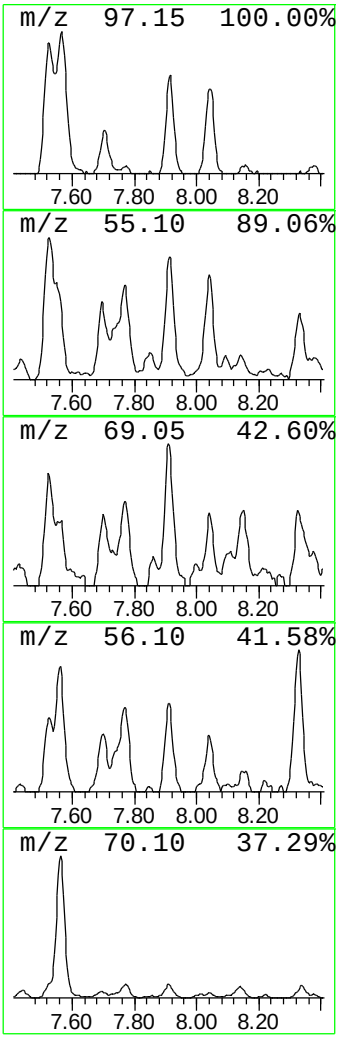
****

Peak Number 3 (DEL) Alkane: Cyclic7.91 Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.91	4.54 ug/L	54108	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	94
2	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	93
3	Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	93
4	Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	91
5	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	91





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122418\
Data File : VU028941.D
Acq On : 24 Dec 2018 12:42
Operator : MD/SY
Sample : J6489-07
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F75

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

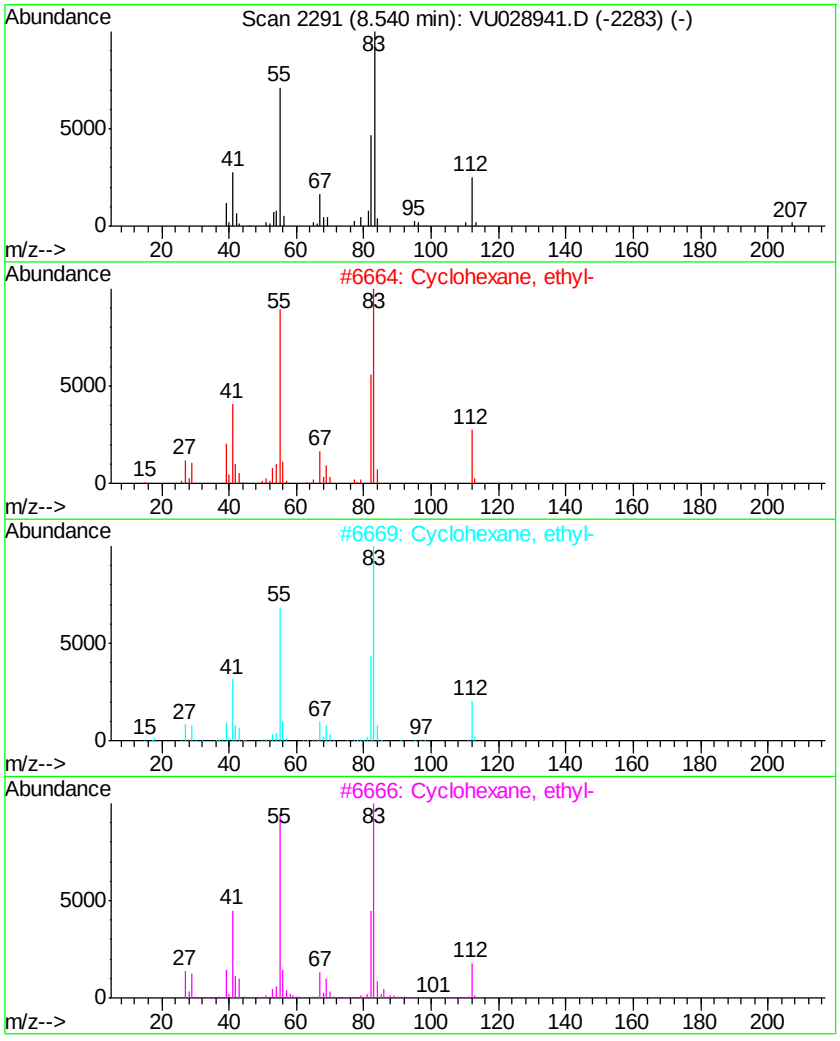
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

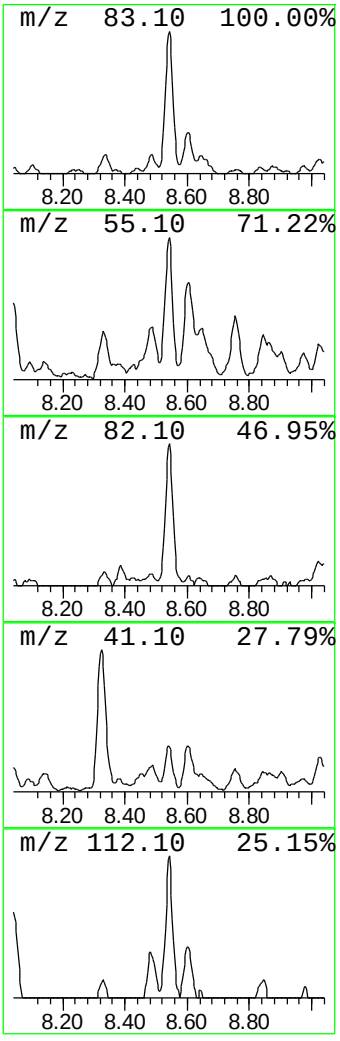
****

Peak Number 4 (DEL) Alkane: Cyclic8.54 Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.54	4.67 ug/L	55679	Chlorobenzene-d5	9.09

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	72
4	2H-Pyran-2-carboxaldehyde, 5,6-d...	112	C6H8O2	053897-26-0	50
5	3-Hexene, 3,4-dimethyl-	112	C8H16	030951-95-2	50





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122418\
Data File : VU028941.D
Acq On : 24 Dec 2018 12:42
Operator : MD/SY
Sample : J6489-07
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F75

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

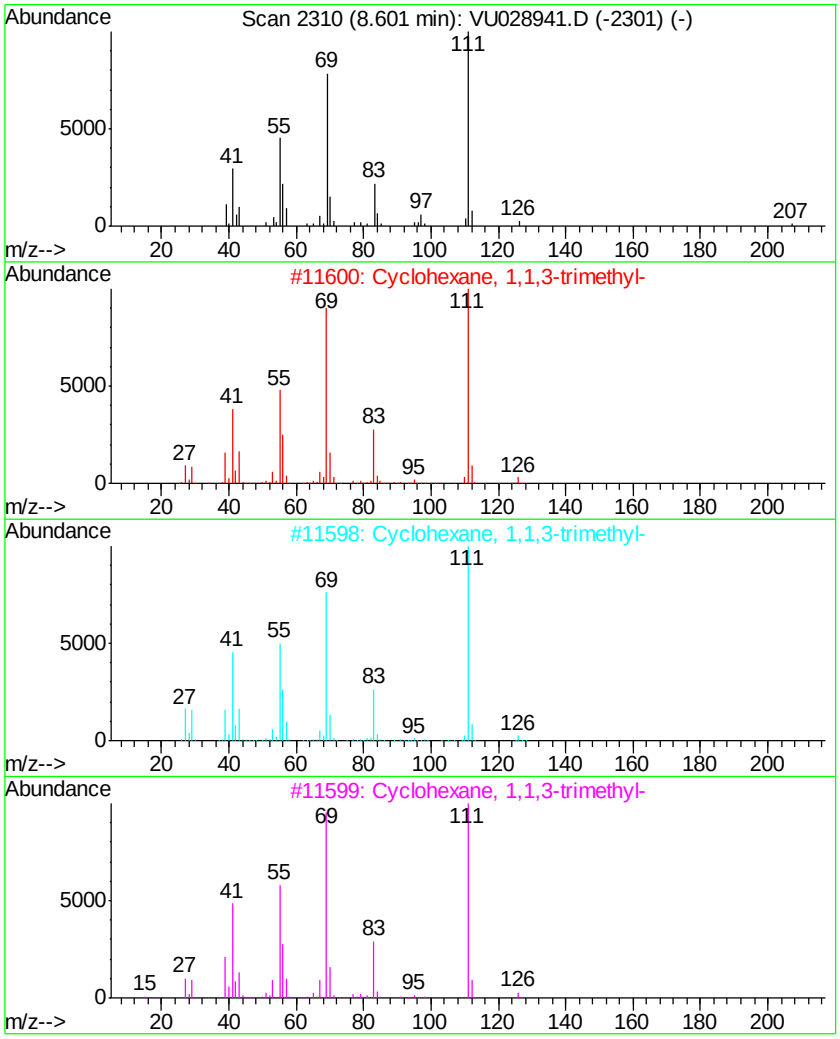
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

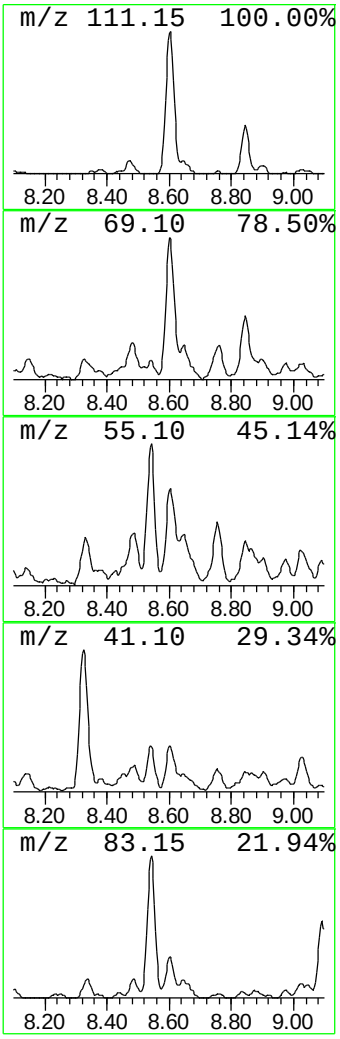
****

Peak Number 5 (DEL) Alkane: Cyclic8.60 Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.60	6.08 ug/L	72436	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	95
2	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	91
3	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	91
4	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	87
5	Cyclooctane, butyl-	168	C12H24	016538-93-5	78





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122418\
Data File : VU028941.D
Acq On : 24 Dec 2018 12:42
Operator : MD/SY
Sample : J6489-07
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F75

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

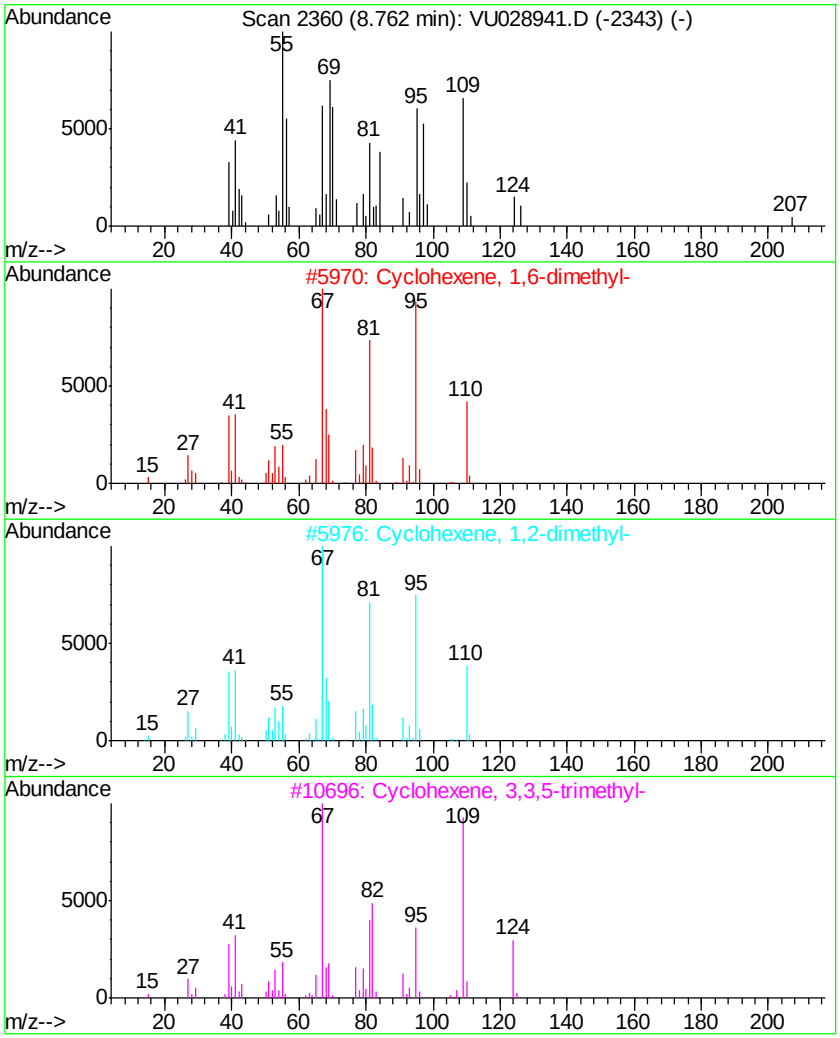
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

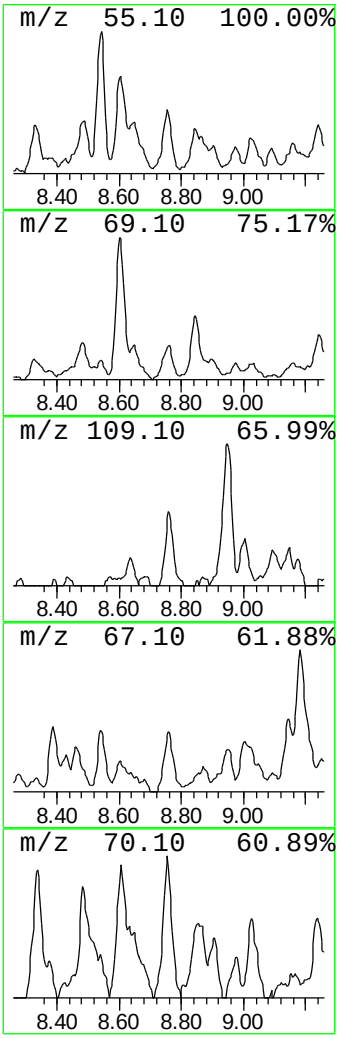
****

Peak Number 6 Cyclohexene, 1,6-dimethyl- Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.76	4.35 ug/L	51785	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexene, 1,6-dimethyl-	110	C8H14	001759-64-4	60
2	Cyclohexene, 1,2-dimethyl-	110	C8H14	001674-10-8	60
3	Cyclohexene, 3,3,5-trimethyl-	124	C9H16	000503-45-7	38
4	Cyclohexene, 3,3,5-trimethyl-	124	C9H16	000503-45-7	38
5	2-Nonene, (E)-	126	C9H18	006434-78-2	30





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Data File : VU028941.D
Acq On : 24 Dec 2018 12:42
Operator : MD/SY
Sample : J6489-07
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F75

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

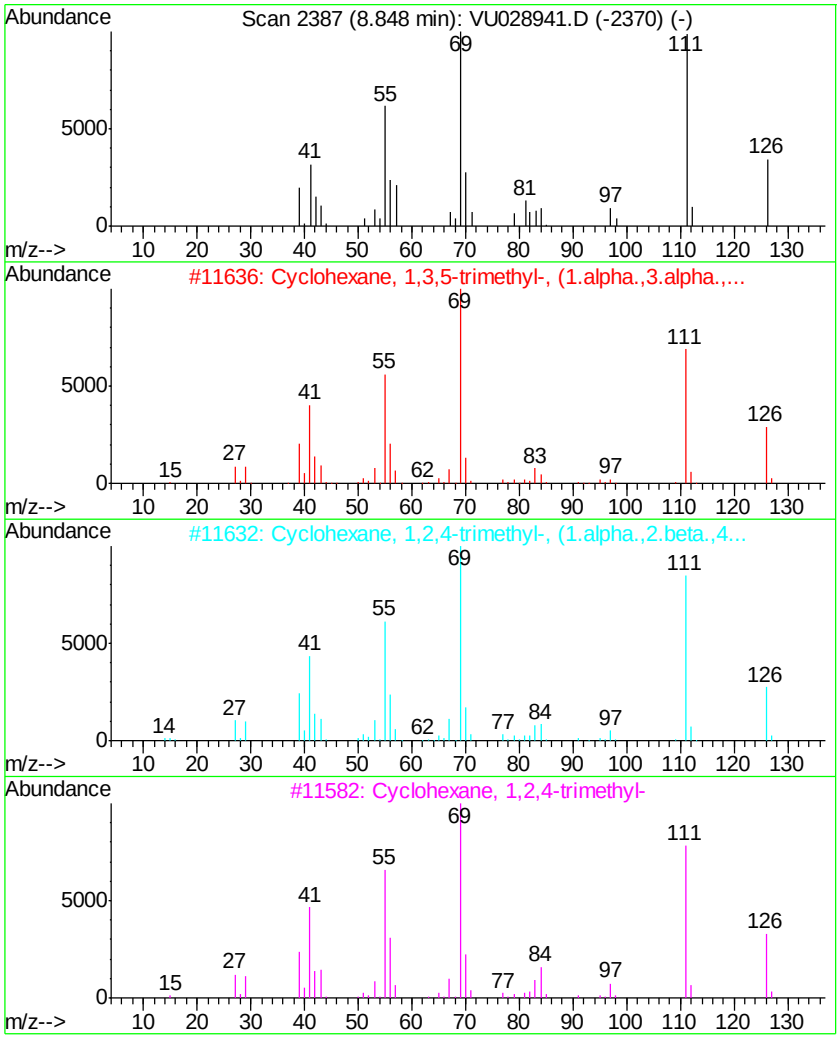
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

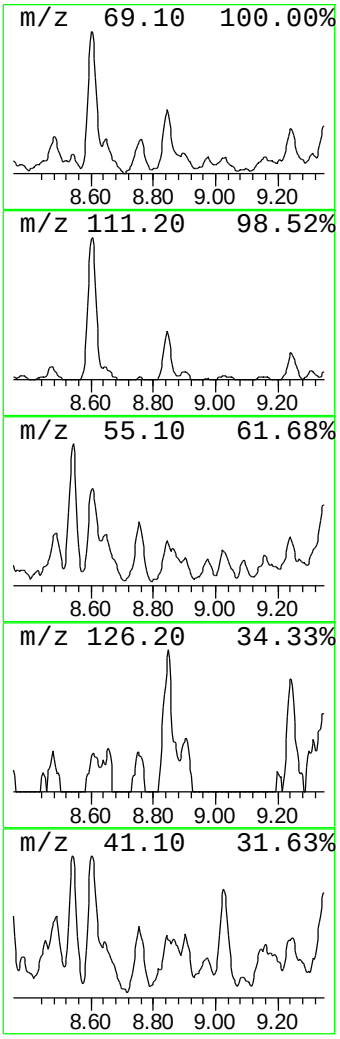
****

Peak Number 7 (DEL) Alkane: Cyclic8.85 Concentration Rank 31

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.85	2.89 ug/L	34440	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3,5-trimethyl-, (...	126	C9H18	001795-26-2	87
2	Cyclohexane, 1,2,4-trimethyl-, (...	126	C9H18	007667-60-9	87
3	Cyclohexane, 1,2,4-trimethyl-	126	C9H18	002234-75-5	87
4	Cyclohexane, 1,3,5-trimethyl-, (...	126	C9H18	001795-26-2	83
5	Cyclohexane, 1,2,4-trimethyl-	126	C9H18	002234-75-5	83





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122418\
Data File : VU028941.D
Acq On : 24 Dec 2018 12:42
Operator : MD/SY
Sample : J6489-07
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F75

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

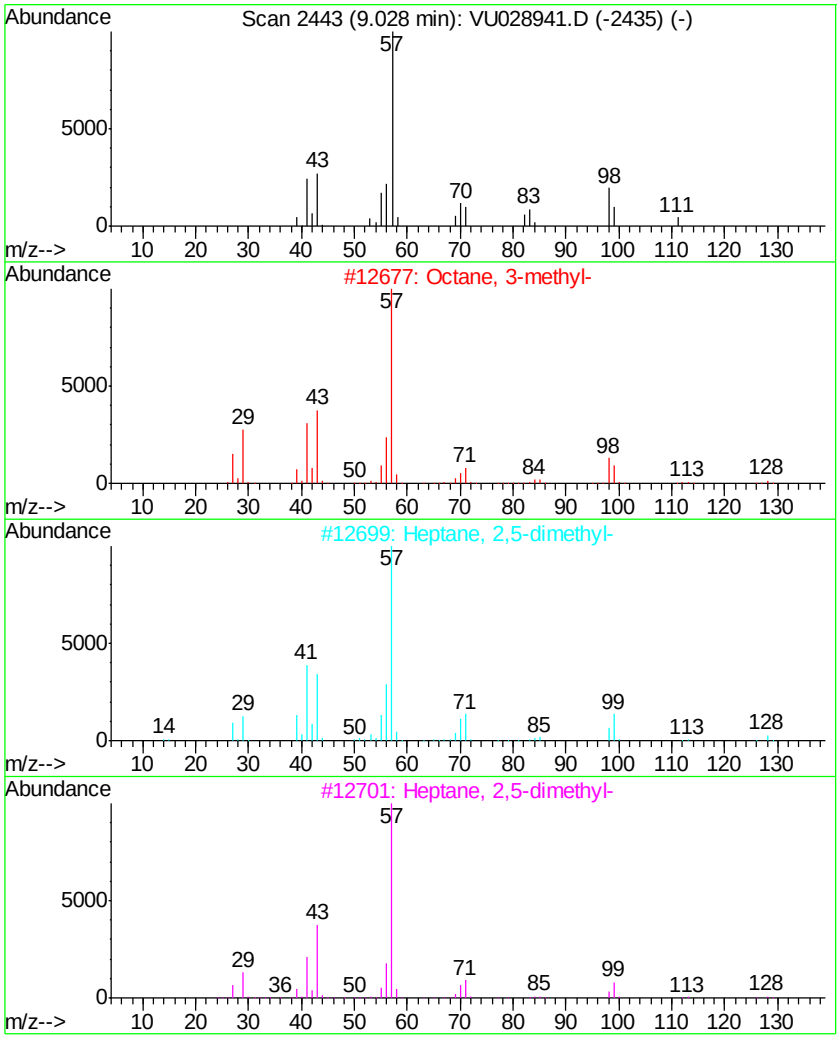
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

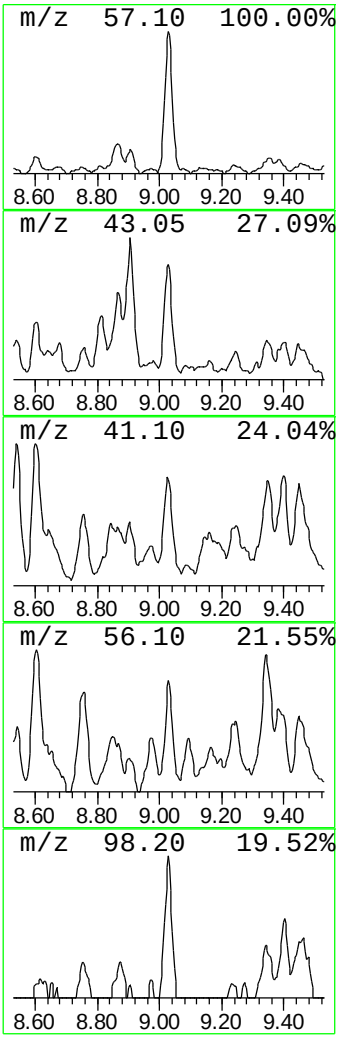
****

Peak Number 8 (DEL) Alkane: Straight-Chai... Concentration Rank 34

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.03	2.70 ug/L	32157	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 3-methyl-	128	C9H20	002216-33-3	59
2	Heptane, 2,5-dimethyl-	128	C9H20	002216-30-0	59
3	Heptane, 2,5-dimethyl-	128	C9H20	002216-30-0	53
4	Octane, 3-methyl-	128	C9H20	002216-33-3	53
5	Undecane, 6-methyl-	170	C12H26	017302-33-9	53





Library Search Compound Report

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Data File : VU028941.D
Acq On : 24 Dec 2018 12:42
Operator : MD/SY
Sample : J6489-07
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F75

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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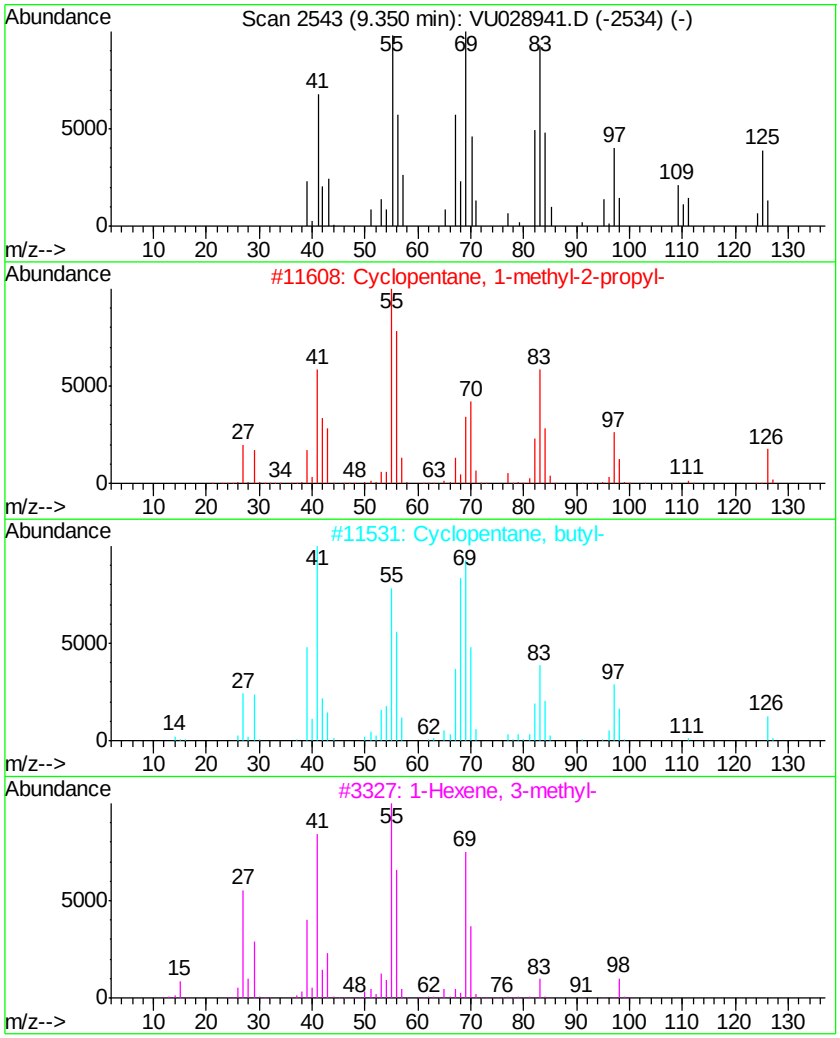
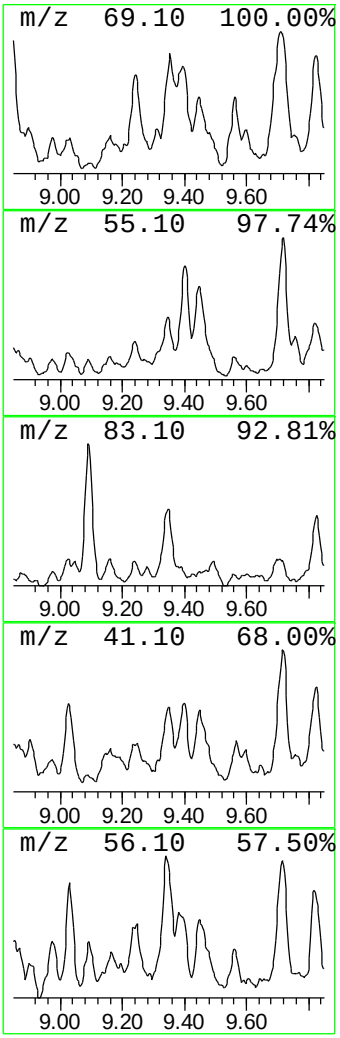
Peak Number 9 (DEL) Alkane: Cyclic9.35 Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.35	2.78 ug/L	33117	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1-methyl-2-propyl-	126	C9H18	003728-57-2	53
2	Cyclopentane, butyl-	126	C9H18	002040-95-1	49
3	1-Hexene, 3-methyl-	98	C7H14	003404-61-3	38
4	Cyclooctanone	126	C8H14O	000502-49-8	38
5	Cyclopentane, 1-ethyl-2-methyl-,...	112	C8H16	000930-89-2	38





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122418\
Data File : VU028941.D
Acq On : 24 Dec 2018 12:42
Operator : MD/SY
Sample : J6489-07
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F75

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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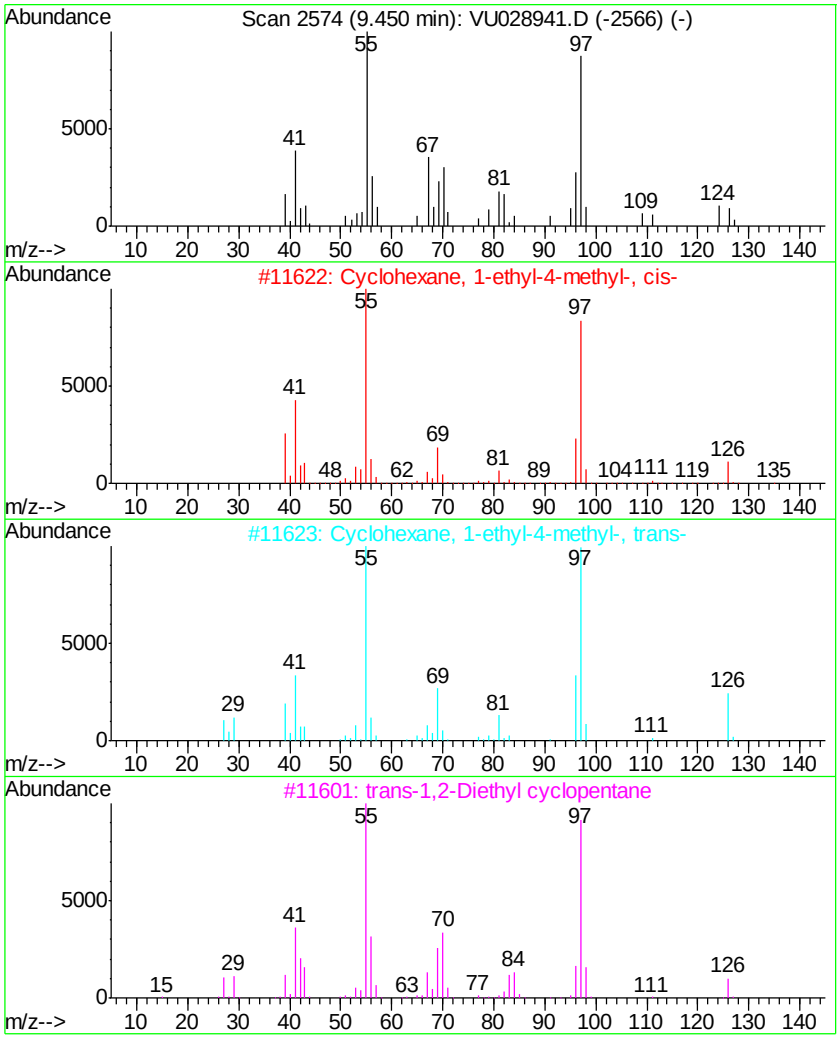
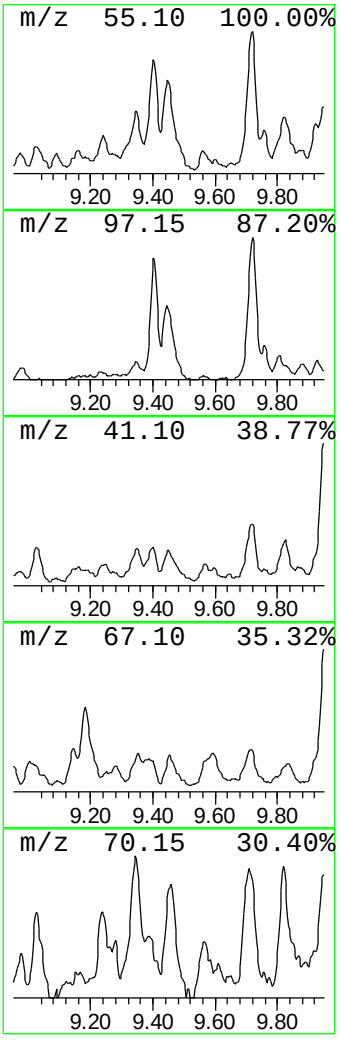
Peak Number 10 (DEL) Alkane: Cyclic9.45 Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.45	6.33 ug/L	75490	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1-ethyl-4-methyl-, ...	126	C9H18	004926-78-7	68
2	Cyclohexane, 1-ethyl-4-methyl-, ...	126	C9H18	006236-88-0	59
3	trans-1,2-Diethyl cyclopentane	126	C9H18	000932-40-1	59
4	Cyclohexane, 1-ethyl-2-methyl-, ...	126	C9H18	004923-77-7	53
5	Cyclohexane, 1-ethyl-4-methyl-, ...	126	C9H18	006236-88-0	53





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Acq On : 24 Dec 2018 12:42
Operator : MD/SY
Sample : J6489-07
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F75

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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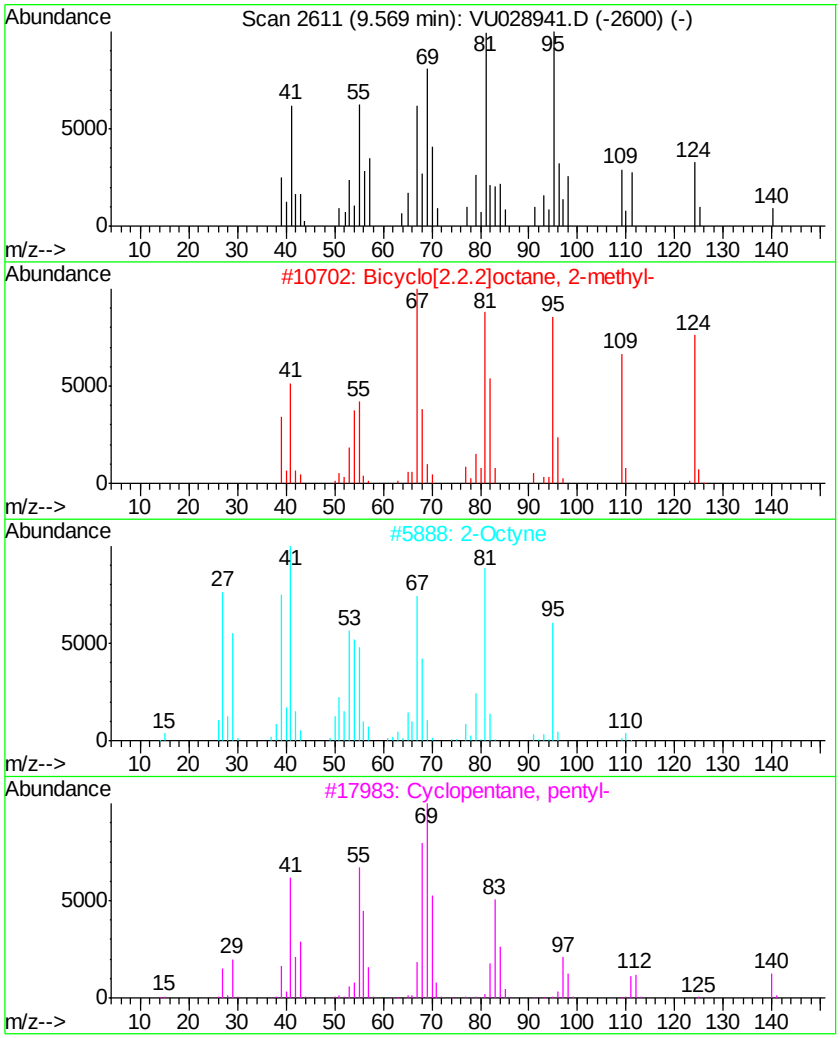
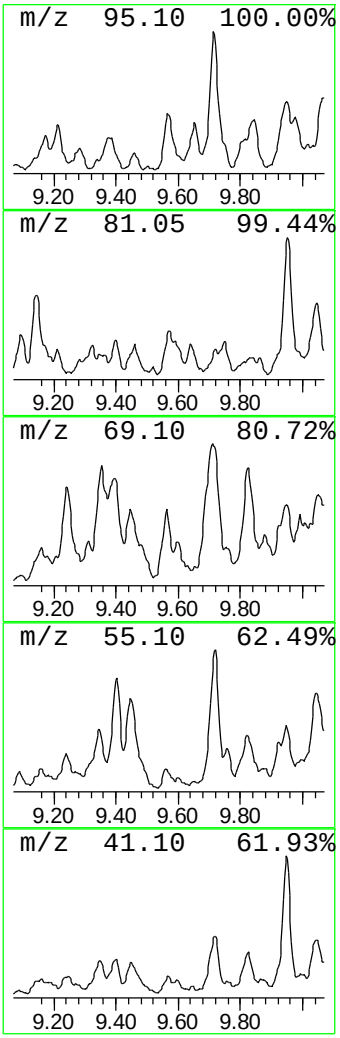
Peak Number 11 unknown-01 Concentration Rank 33

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.57	2.72 ug/L	32450	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Bicyclo[2.2.2]octane, 2-methyl-	124	C9H16	000766-53-0	45
2	2-Octyne	110	C8H14	002809-67-8	38
3	Cyclopentane, pentyl-	140	C10H20	003741-00-2	25
4	Cyclopropane, 1,1-diethyl-	98	C7H14	001003-19-6	22
5	3,5-Octadien-2-one	124	C8H12O	038284-27-4	18





Library Search Compound Report

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Data File : VU028941.D
Acq On : 24 Dec 2018 12:42
Operator : MD/SY
Sample : J6489-07
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F75

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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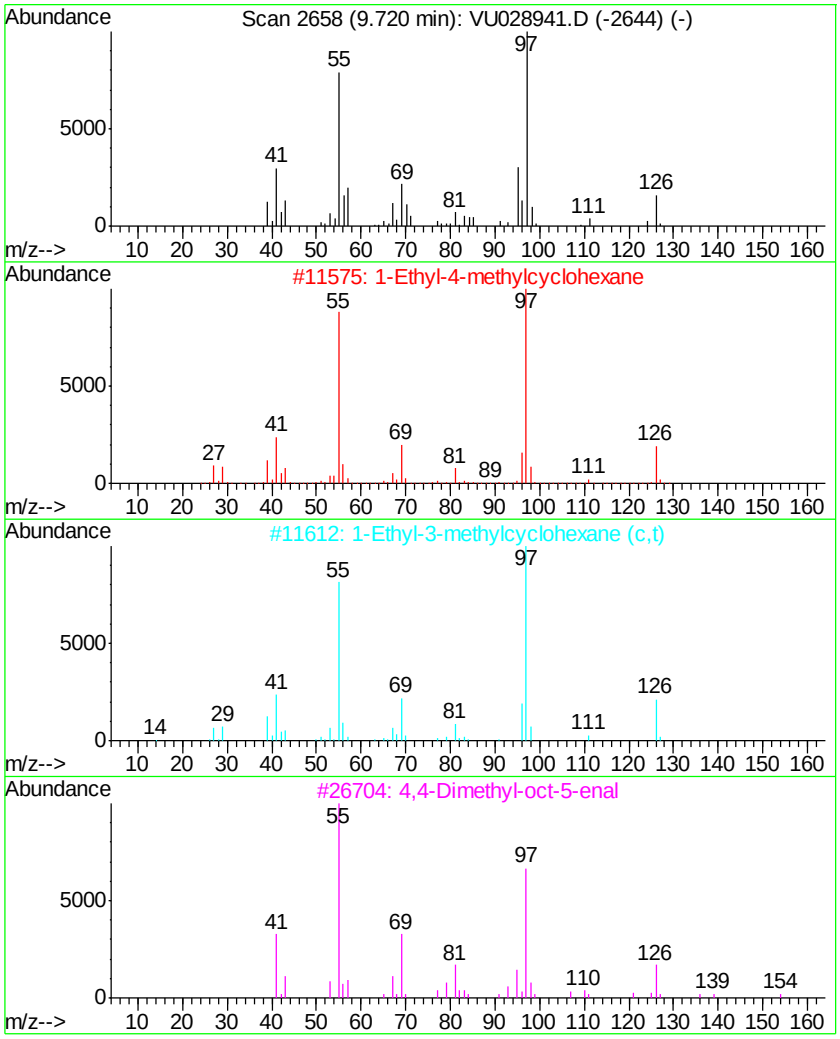
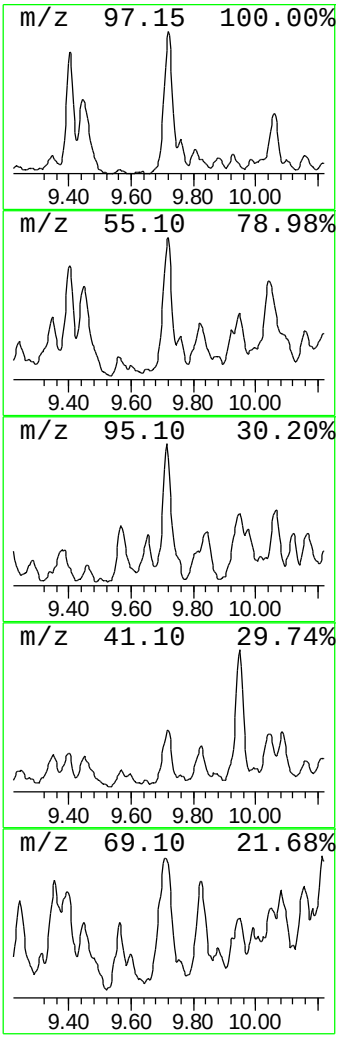
Peak Number 12 (DEL) Alkane: Cyclic9.72 Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.72	8.68 ug/L	103450	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Ethyl-4-methylcyclohexane	126	C9H18	003728-56-1	81
2	1-Ethyl-3-methylcyclohexane (c,t)	126	C9H18	003728-55-0	64
3	4,4-Dimethyl-oct-5-enal	154	C10H18O	1000143-73-6	64
4	2-Hexene, 3,4,4-trimethyl-	126	C9H18	053941-19-8	64
5	Cyclohexane, 1-ethyl-2-methyl-, ...	126	C9H18	004923-78-8	64





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Data File : VU028941.D
Acq On : 24 Dec 2018 12:42
Operator : MD/SY
Sample : J6489-07
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F75

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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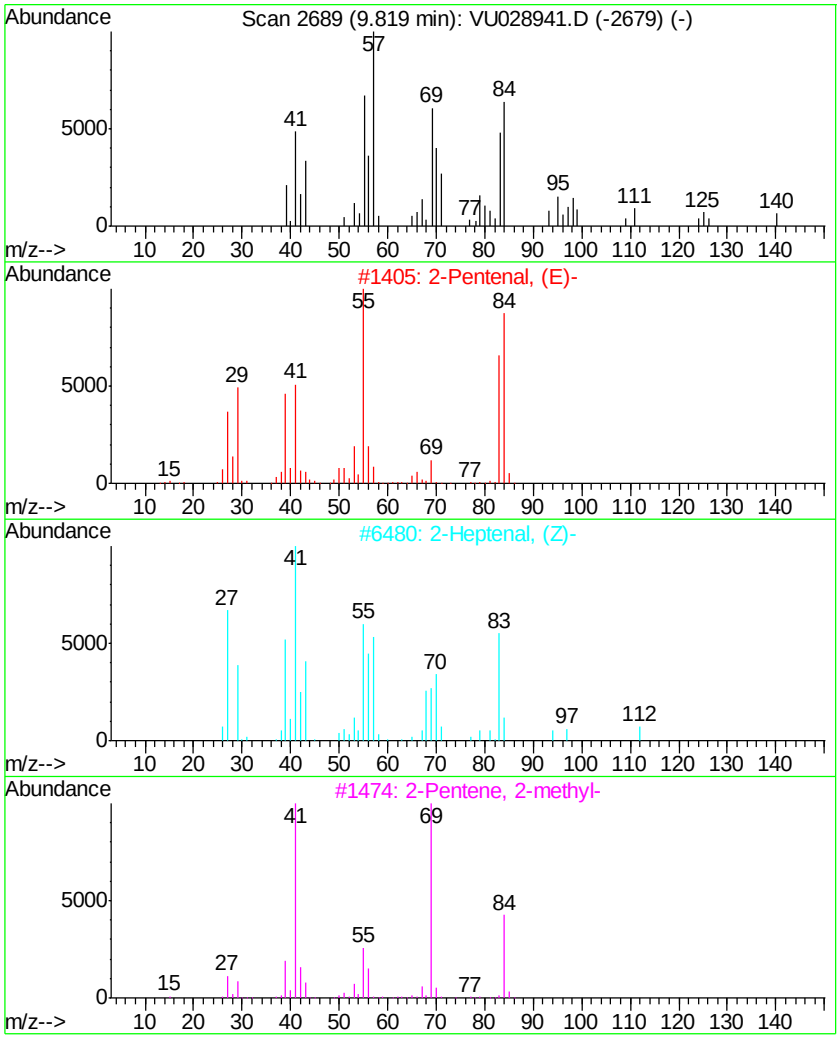
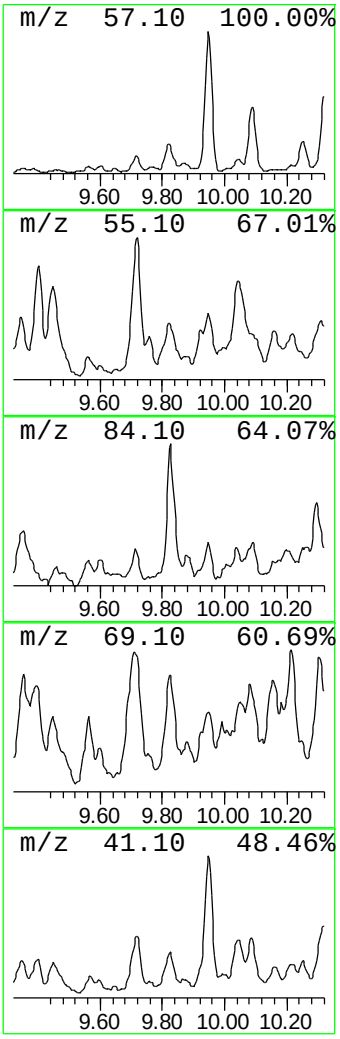
Peak Number 13 unknown-02 Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.82	4.81 ug/L	57273	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentenal, (E)-	84	C5H8O	001576-87-0	38
2	2-Heptenal, (Z)-	112	C7H12O	057266-86-1	35
3	2-Pentene, 2-methyl-	84	C6H12	000625-27-4	35
4	Cyclopropane, 1,2,3-trimethyl-	84	C6H12	042984-19-0	35
5	2-Hexenal, (E)-	98	C6H10O	006728-26-3	30





Library Search Compound Report

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Operator : MD/SY
Sample : J6489-07
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F75

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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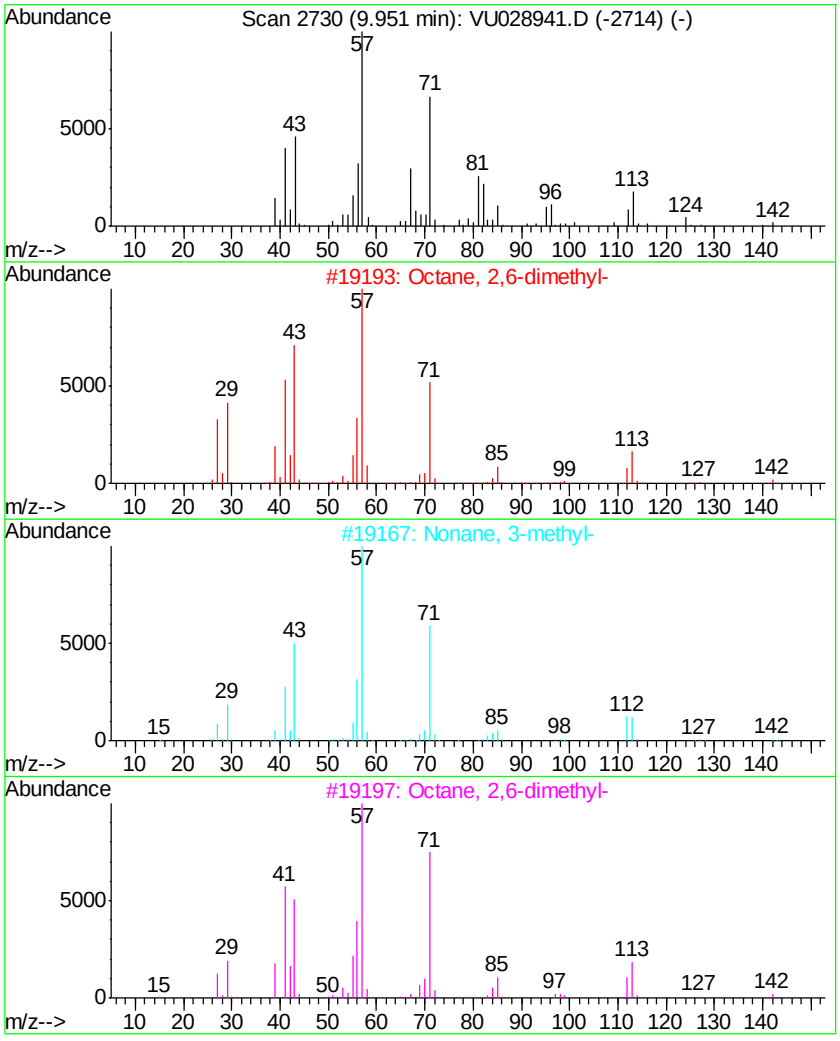
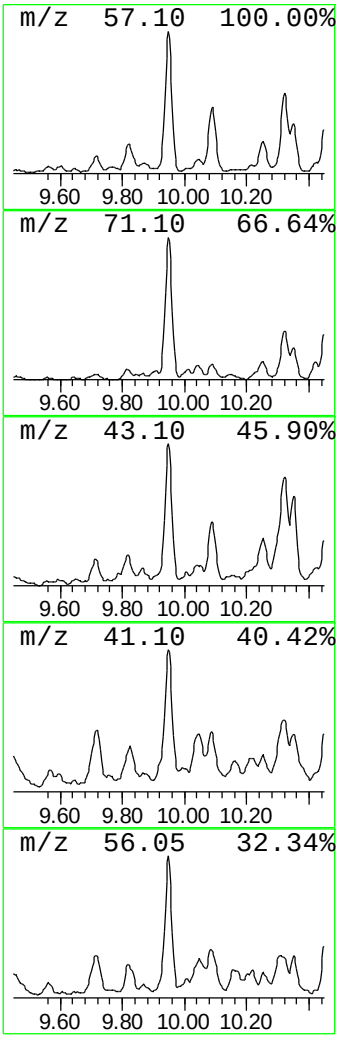
Peak Number 14 (DEL) Alkane: Straight-Chai... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.95	16.31 ug/L	194360	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	60
2	Nonane, 3-methyl-	142	C10H22	005911-04-6	60
3	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	53
4	Octane, 3,6-dimethyl-	142	C10H22	015869-94-0	53
5	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	49





Library Search Compound Report

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Data File : VU028941.D
Acq On : 24 Dec 2018 12:42
Operator : MD/SY
Sample : J6489-07
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F75

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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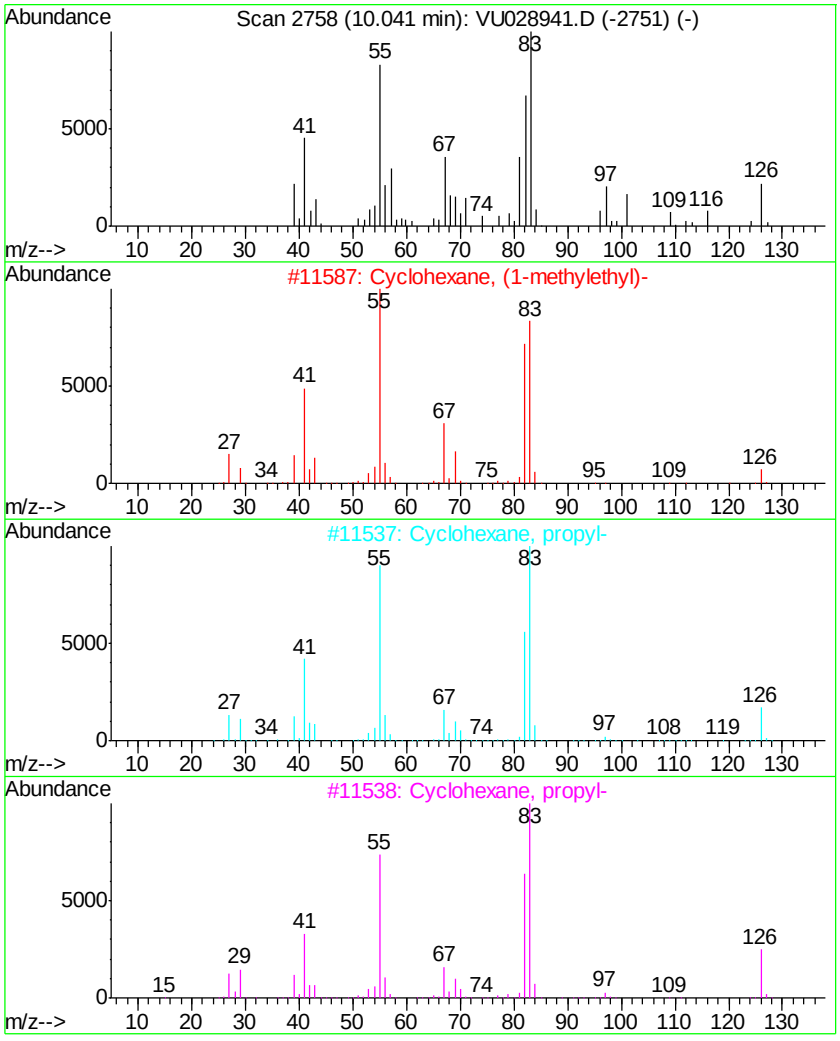
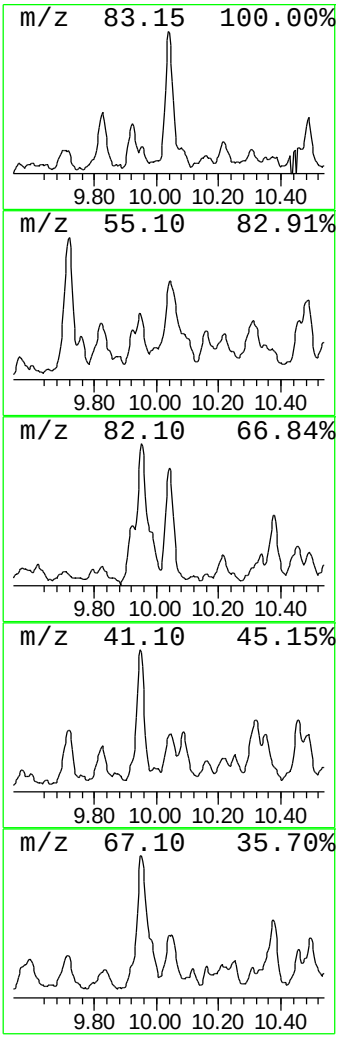
Peak Number 15 (DEL) Alkane: Cyclic10.04 Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.04	4.94 ug/L	58916	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, (1-methylethyl)-	126	C9H18	000696-29-7	52
2	Cyclohexane, propyl-	126	C9H18	001678-92-8	49
3	Cyclohexane, propyl-	126	C9H18	001678-92-8	49
4	Cyclohexane, (1-methylethyl)-	126	C9H18	000696-29-7	49
5	Cyclohexane, propyl-	126	C9H18	001678-92-8	49





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Data File : VU028941.D
Acq On : 24 Dec 2018 12:42
Operator : MD/SY
Sample : J6489-07
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F75

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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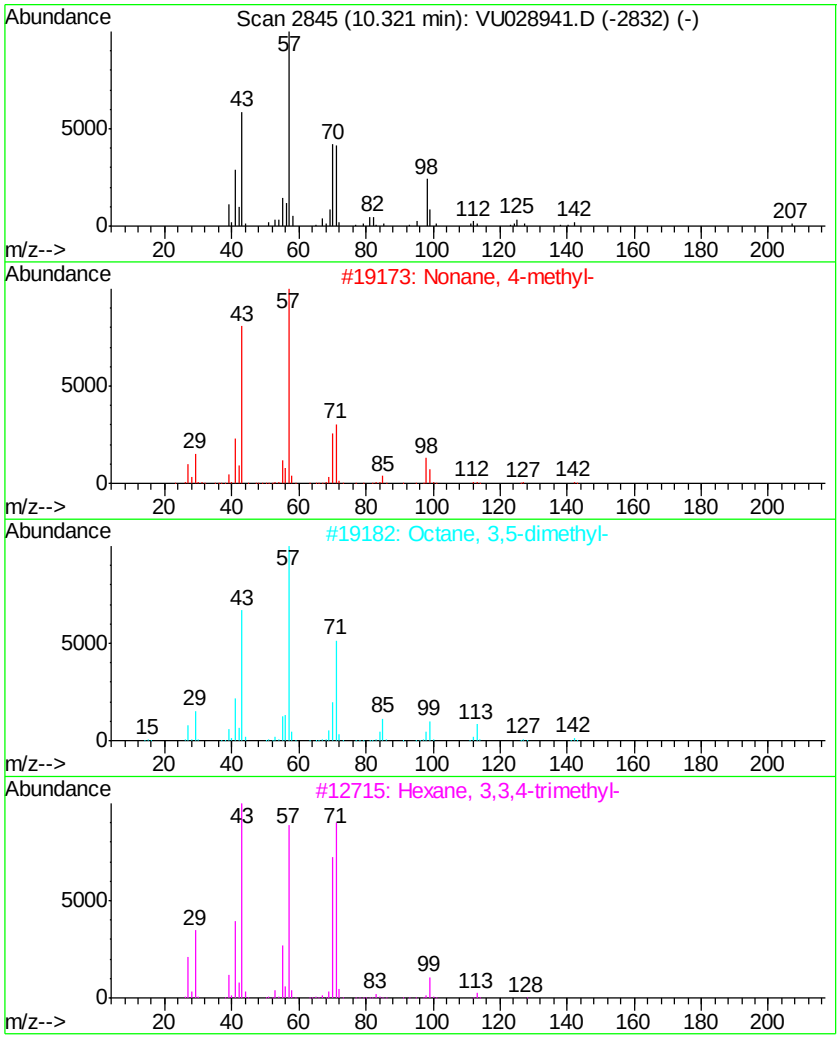
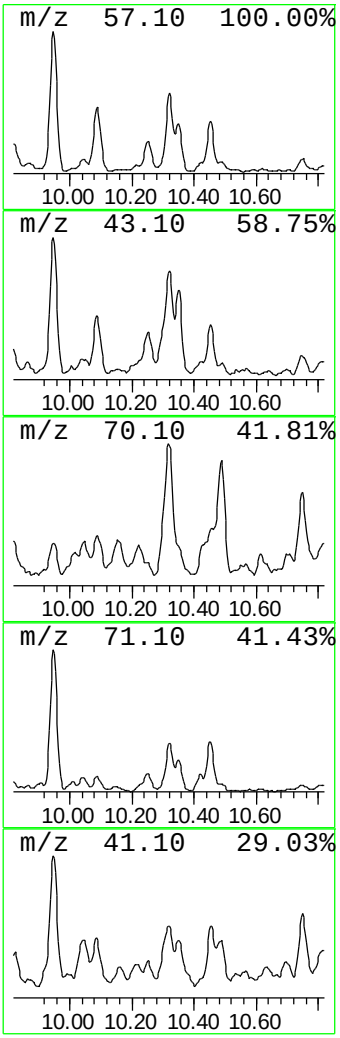
Peak Number 16 (DEL) Alkane: Straight-Chai... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.32	6.92 ug/L	87734	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonane, 4-methyl-	142	C10H22	017301-94-9	64
2	Octane, 3,5-dimethyl-	142	C10H22	015869-93-9	53
3	Hexane, 3,3,4-trimethyl-	128	C9H20	016747-31-2	50
4	Pentane, 2,2,3,3-tetramethyl-	128	C9H20	007154-79-2	47
5	Heptane, 4-propyl-	142	C10H22	003178-29-8	45





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Acq On : 24 Dec 2018 12:42
Operator : MD/SY
Sample : J6489-07
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F75

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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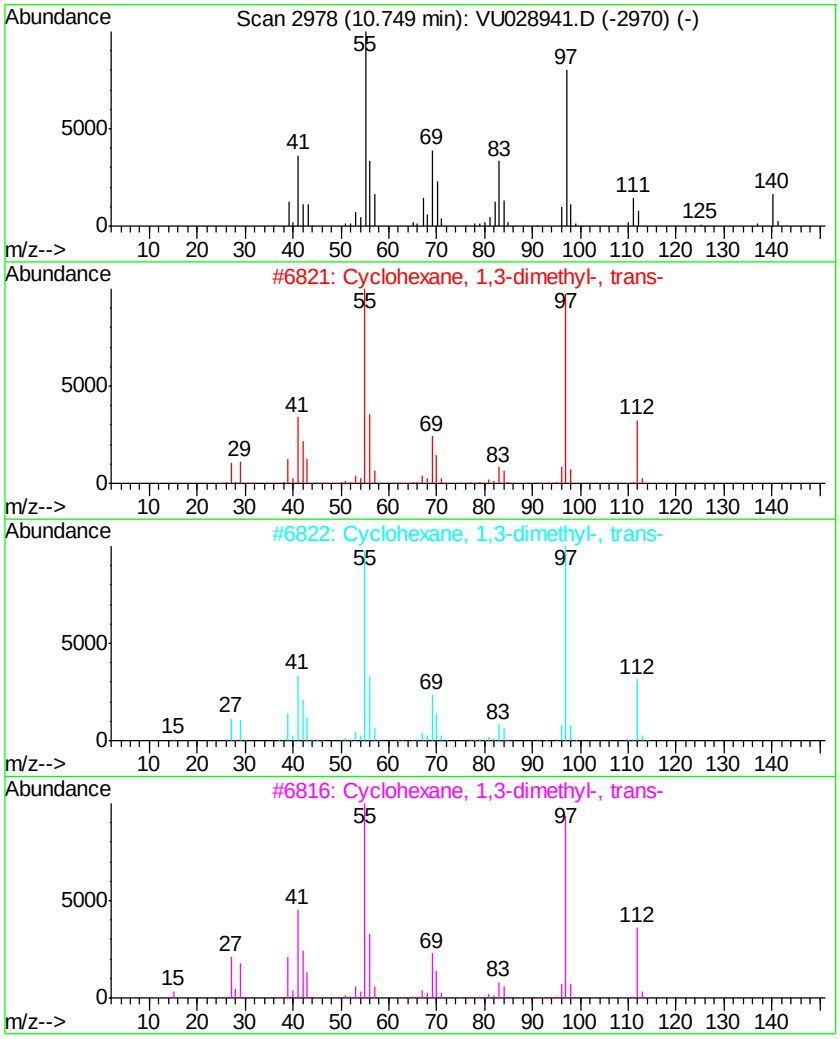
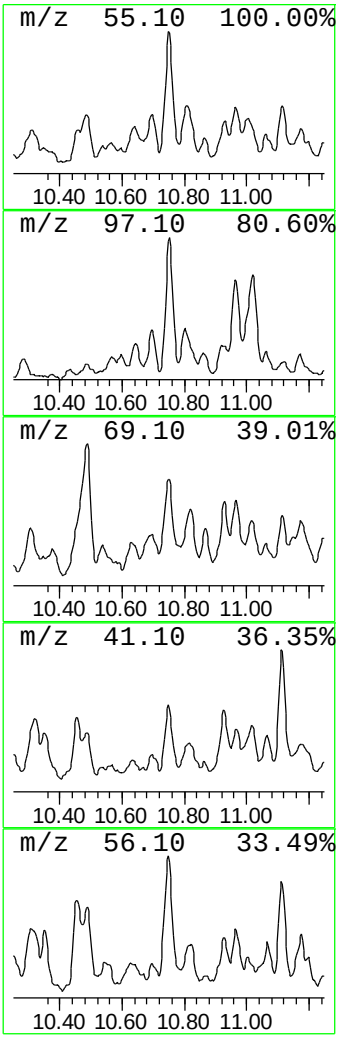
Peak Number 17 (DEL) Alkane: Cyclic10.75 Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.75	6.95 ug/L	88139	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	87
2	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	74
3	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	72
4	Cyclohexane, 1,4-dimethyl-	112	C8H16	000589-90-2	72
5	Cyclohexane, 1,4-dimethyl-, cis-	112	C8H16	000624-29-3	72





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122418\
Data File : VU028941.D
Acq On : 24 Dec 2018 12:42
Operator : MD/SY
Sample : J6489-07
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F75

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

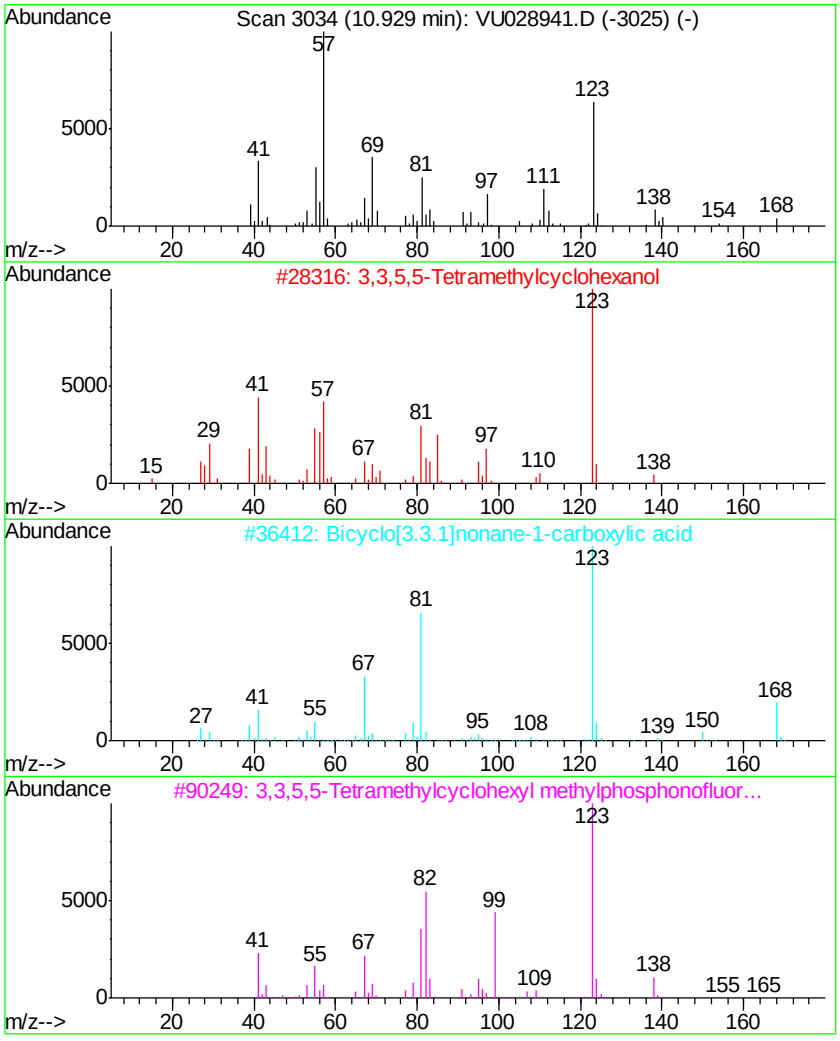
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

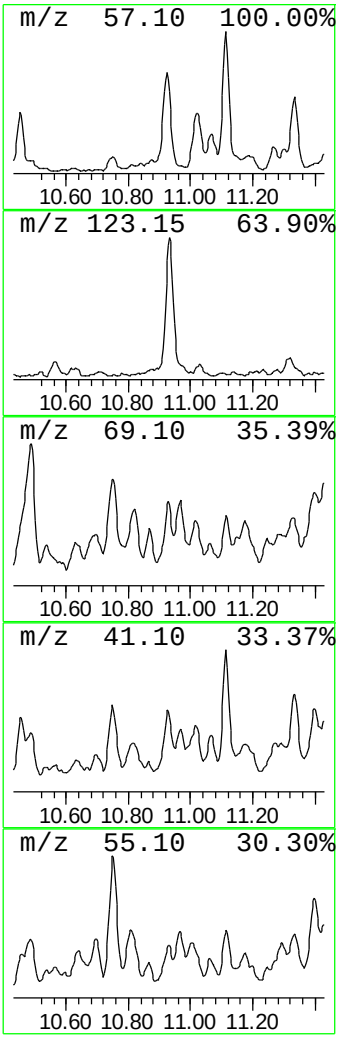
****

Peak Number 18 unknown-03 Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.93	6.49 ug/L	82226	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,3,5,5-Tetramethylcyclohexanol	156	C10H20O	002650-40-0	40
2	Bicyclo[3.3.1]nonane-1-carboxyli...	168	C10H16O2	017530-63-1	35
3	3,3,5,5-Tetramethylcyclohexyl me...	236	C11H22FO2P	1000298-38-5	32
4	4-Amino-2-hydroxytoluene	123	C7H9NO	002835-95-2	22
5	Cyclopentene, 1,3-dimethyl-2-(1-...	138	C10H18	061142-32-3	22





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Data File : VU028941.D
Acq On : 24 Dec 2018 12:42
Operator : MD/SY
Sample : J6489-07
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F75

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

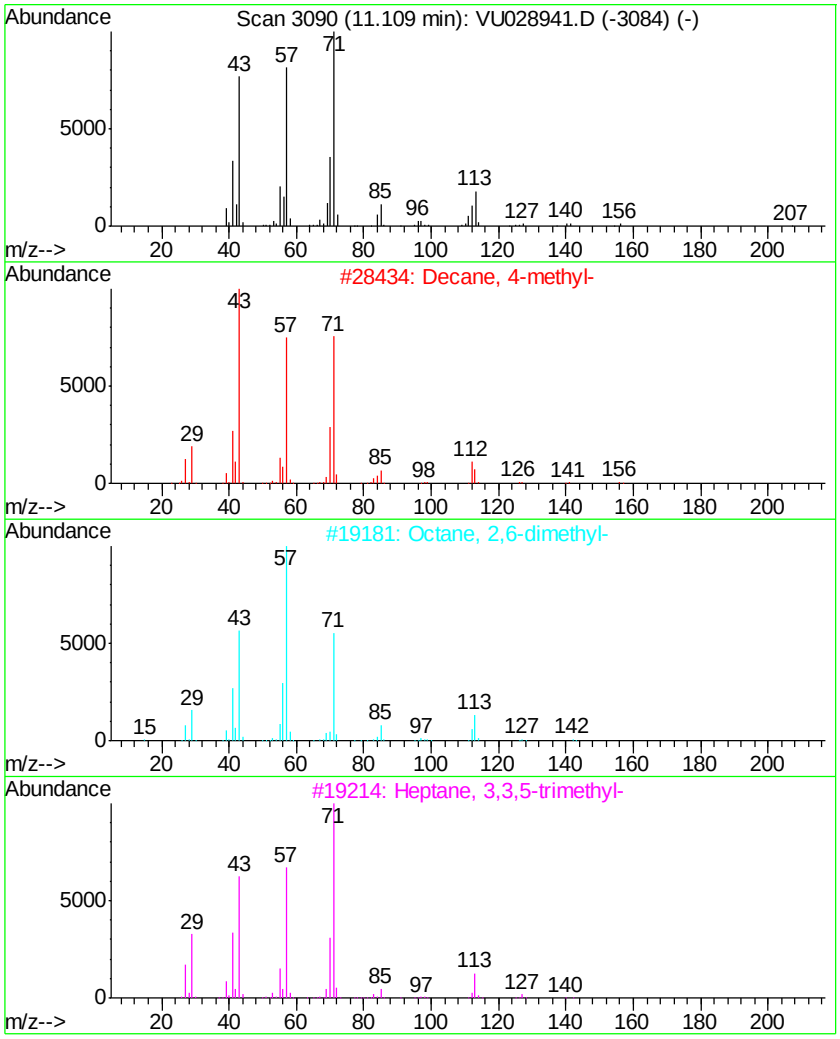
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

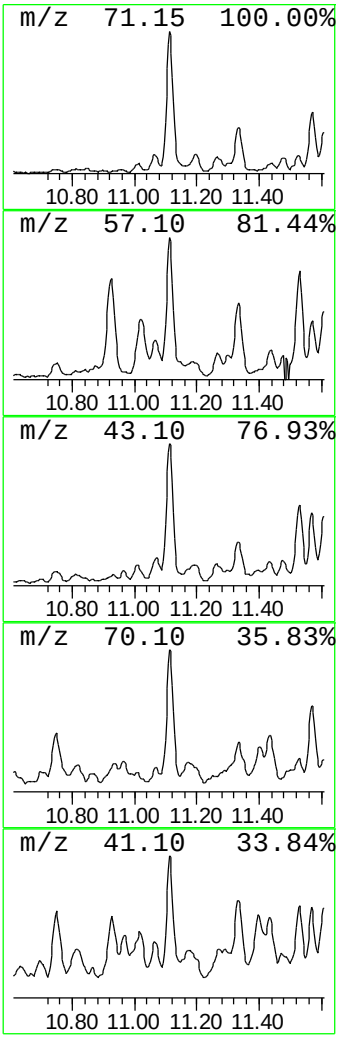
****

Peak Number 19 (DEL) Alkane: Straight-Chai... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.11	10.87 ug/L	137834	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane, 4-methyl-	156	C11H24	002847-72-5	90
2	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	80
3	Heptane, 3,3,5-trimethyl-	142	C10H22	007154-80-5	72
4	Decane, 4-methyl-	156	C11H24	002847-72-5	72
5	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	59





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Data File : VU028941.D
Acq On : 24 Dec 2018 12:42
Operator : MD/SY
Sample : J6489-07
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F75

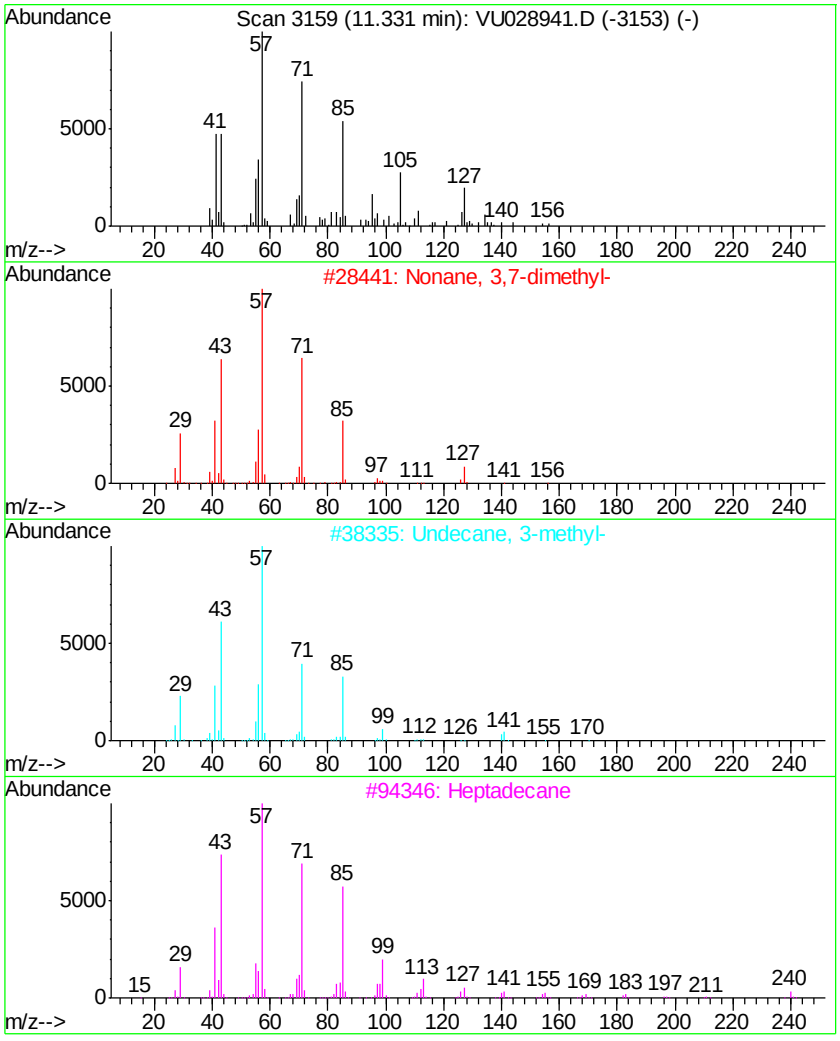
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

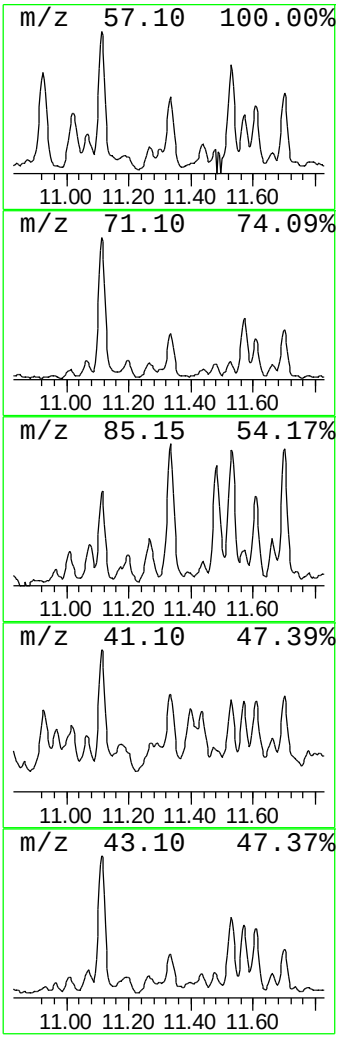
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 20 (DEL) Alkane: Straight-Chai... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.33	7.70 ug/L	97594	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonane, 3,7-dimethyl-	156	C11H24	017302-32-8	64
2	Undecane, 3-methyl-	170	C12H26	001002-43-3	53
3	Heptadecane	240	C17H36	000629-78-7	53
4	Decane, 3,8-dimethyl-	170	C12H26	017312-55-9	53
5	Heneicosane	296	C21H44	000629-94-7	53





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122418\
Data File : VU028941.D
Acq On : 24 Dec 2018 12:42
Operator : MD/SY
Sample : J6489-07
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F75

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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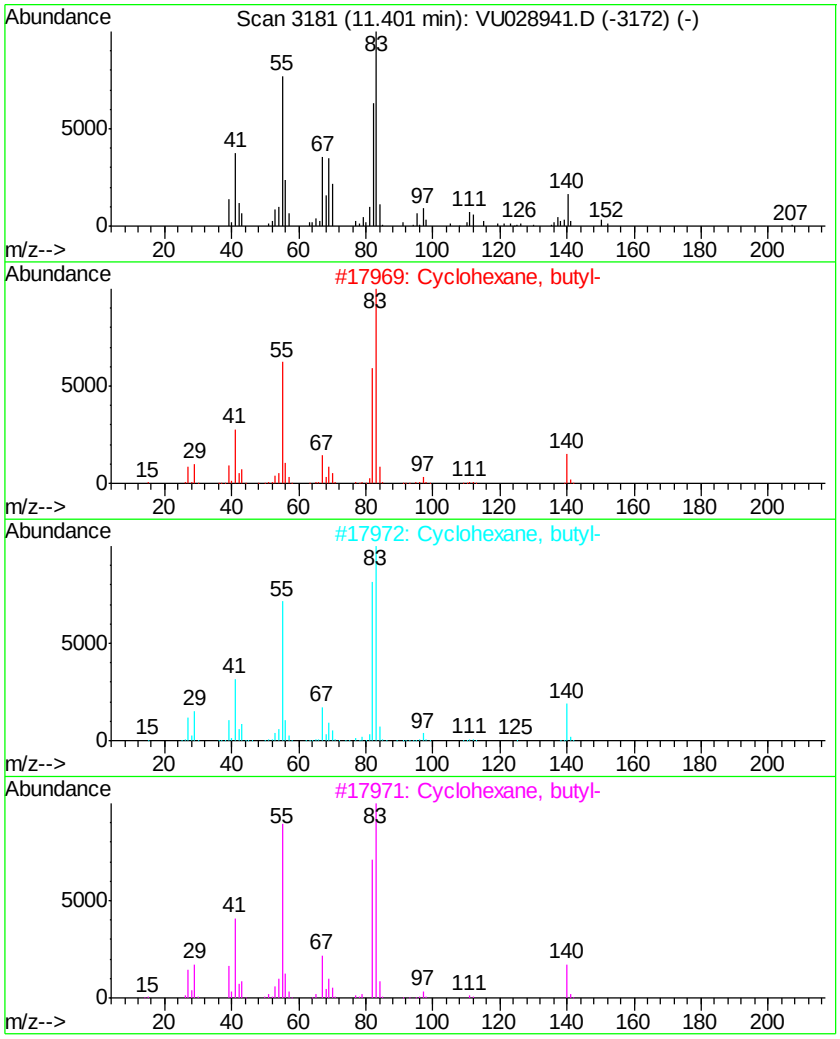
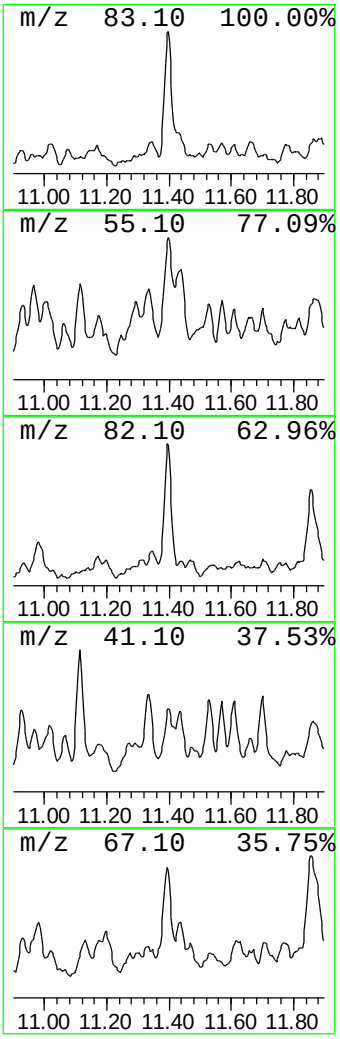
Peak Number 21 (DEL) Alkane: Cyclic11.40 Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.40	5.87 ug/L	74472	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, butyl-	140	C10H20	001678-93-9	68
2	Cyclohexane, butyl-	140	C10H20	001678-93-9	64
3	Cyclohexane, butyl-	140	C10H20	001678-93-9	64
4	Cyclohexane, (1-methylpropyl)-	140	C10H20	007058-01-7	62
5	3-Cyclohexyl-1-chloropropane	160	C9H17Cl	001124-62-5	53





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122418\
Data File : VU028941.D
Acq On : 24 Dec 2018 12:42
Operator : MD/SY
Sample : J6489-07
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F75

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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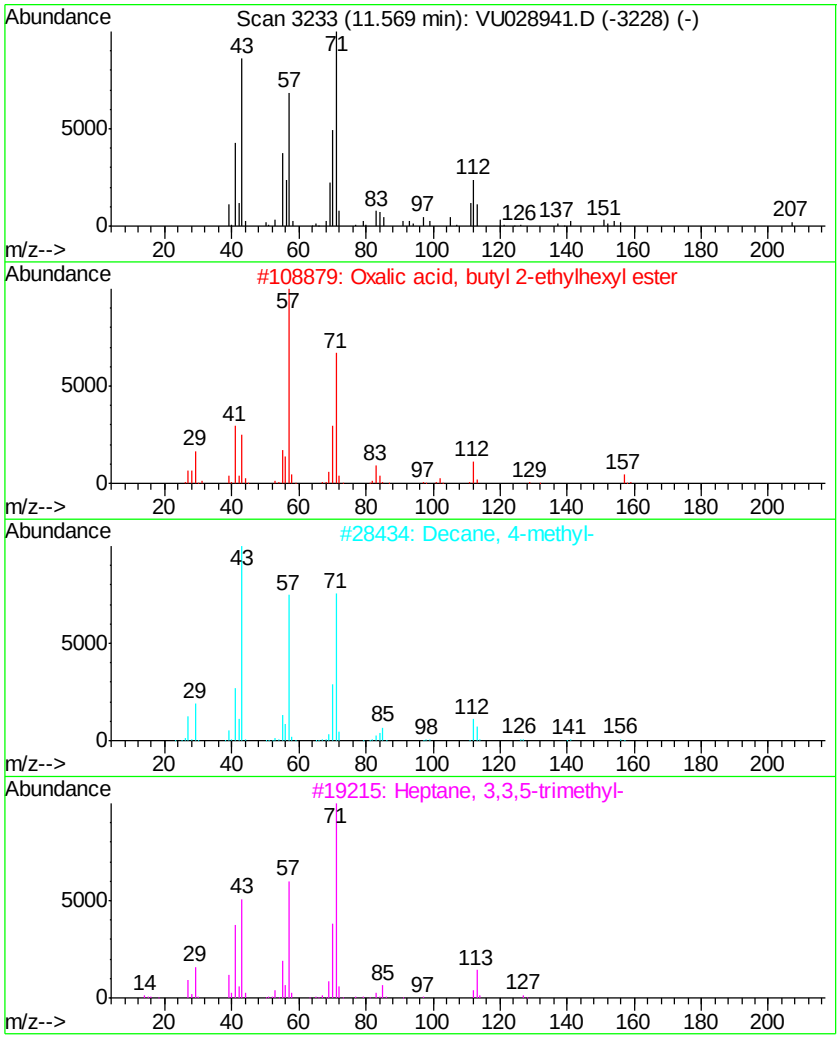
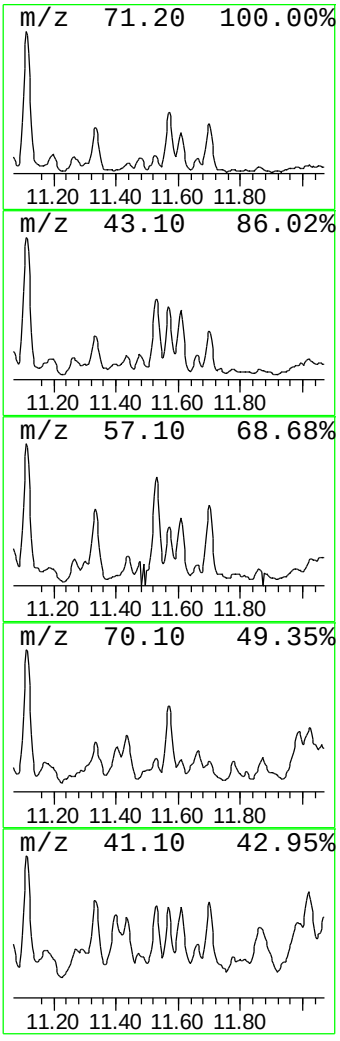
Peak Number 22 Oxalic acid, butyl 2-ethylh... Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.57	3.33 ug/L	42192	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxalic acid, butyl 2-ethylhexyl ...	258	C14H26O4	1000309-38-6	64
2	Decane, 4-methyl-	156	C11H24	002847-72-5	59
3	Heptane, 3,3,5-trimethyl-	142	C10H22	007154-80-5	53
4	Sulfurous acid, butyl octyl ester	250	C12H26O3S	1000309-17-5	53
5	Octane, 3-ethyl-	142	C10H22	005881-17-4	53





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122418\
Data File : VU028941.D
Acq On : 24 Dec 2018 12:42
Operator : MD/SY
Sample : J6489-07
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F75

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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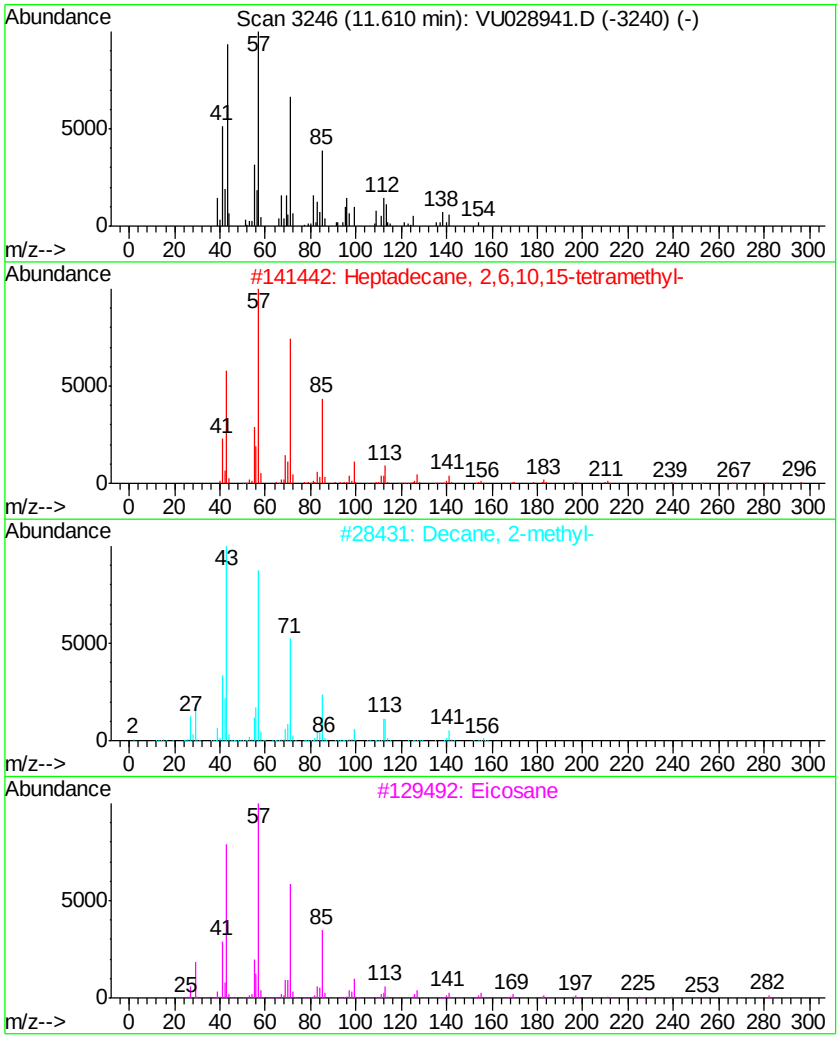
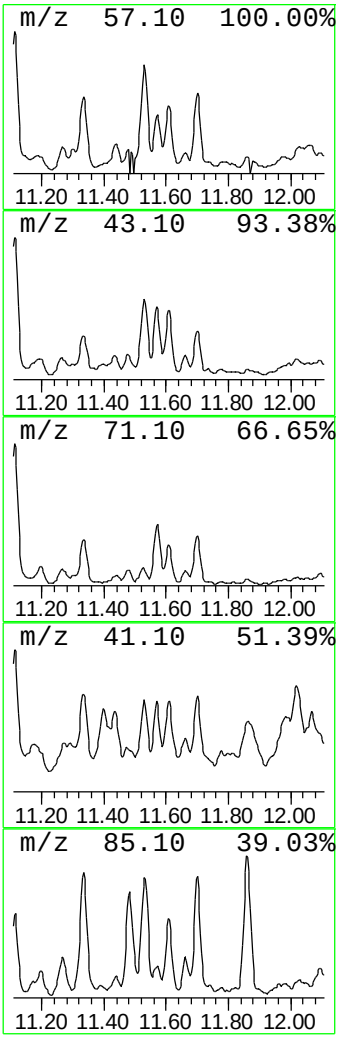
Peak Number 23 (DEL) Alkane: Straight-Chai... Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.61	3.95 ug/L	50021	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44	054833-48-6	64
2	Decane, 2-methyl-	156	C11H24	006975-98-0	59
3	Eicosane	282	C20H42	000112-95-8	58
4	Sulfurous acid, 2-ethylhexyl iso...	278	C14H30O3S	1000309-19-0	53
5	Undecane, 3,8-dimethyl-	184	C13H28	017301-30-3	53





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122418\
Data File : VU028941.D
Acq On : 24 Dec 2018 12:42
Operator : MD/SY
Sample : J6489-07
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F75

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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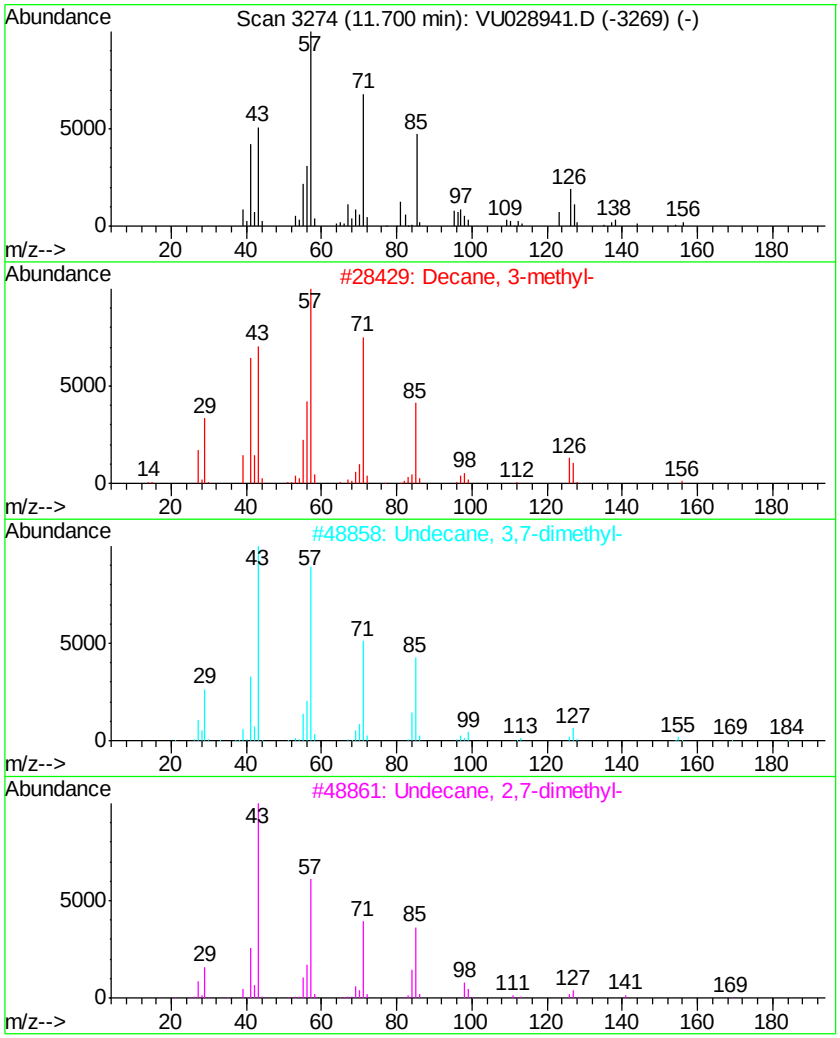
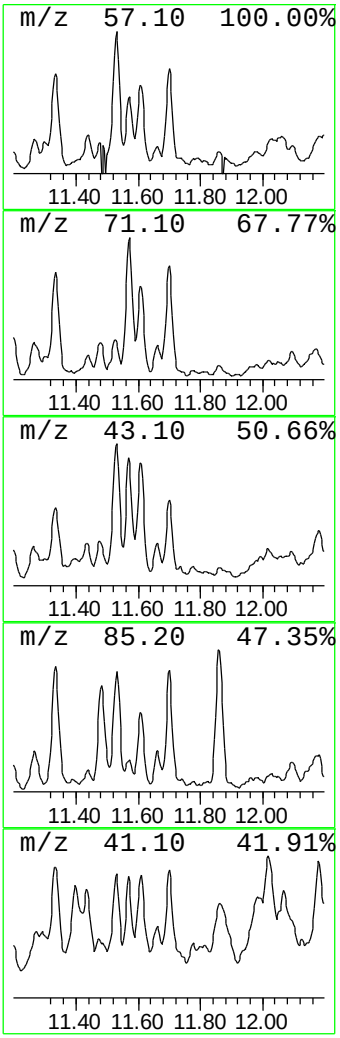
Peak Number 24 (DEL) Alkane: Straight-Chai... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.70	5.88 ug/L	74601	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane, 3-methyl-	156	C11H24	013151-34-3	72
2	Undecane, 3,7-dimethyl-	184	C13H28	017301-29-0	64
3	Undecane, 2,7-dimethyl-	184	C13H28	017301-24-5	59
4	Undecane, 5,7-dimethyl-	184	C13H28	017312-83-3	59
5	Dodecane, 3-methyl-	184	C13H28	017312-57-1	53





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Acq On : 24 Dec 2018 12:42
Operator : MD/SY
Sample : J6489-07
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F75

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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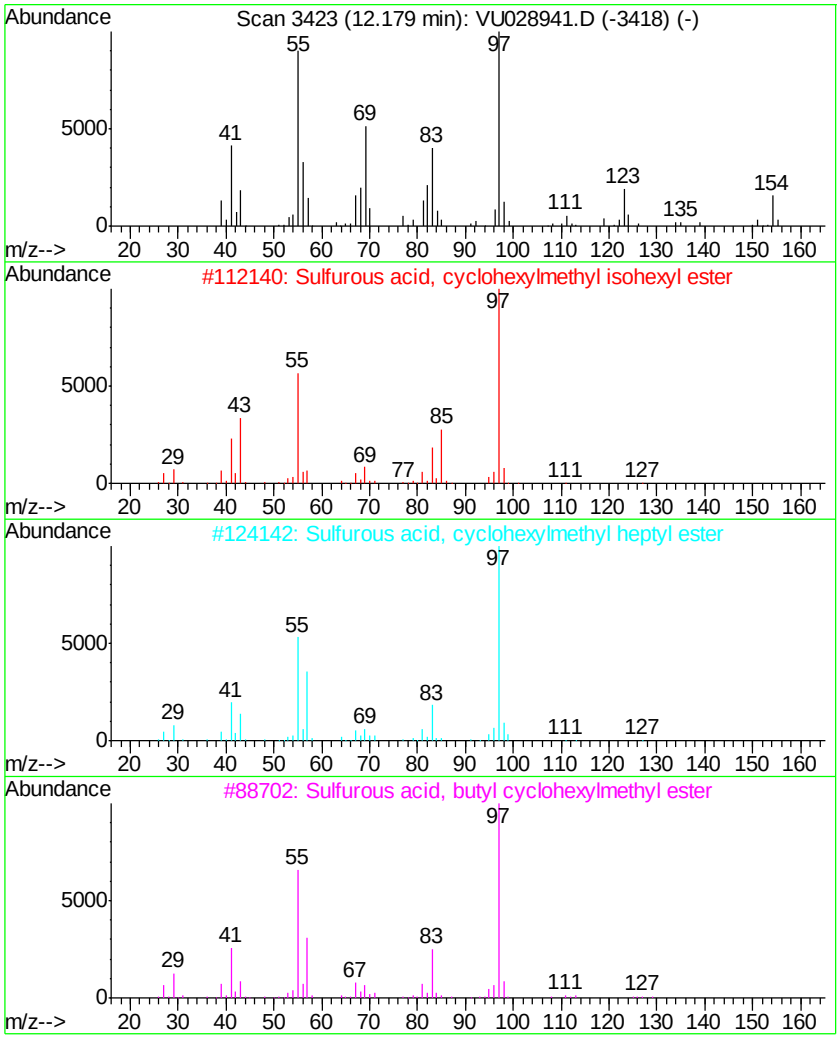
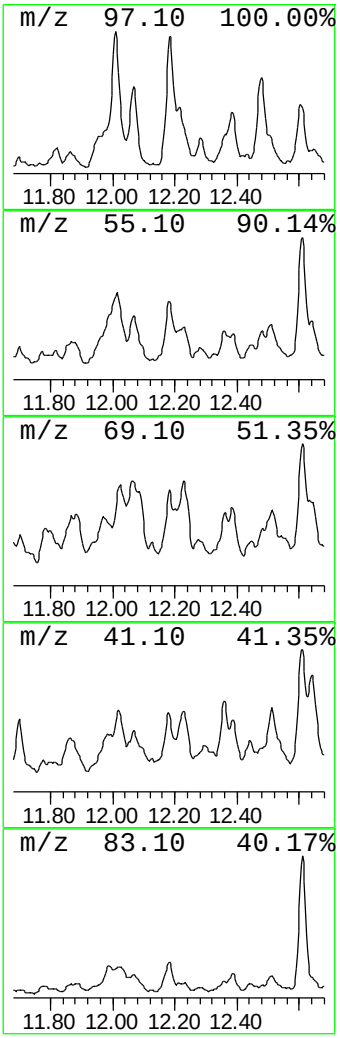
Peak Number 25 Sulfurous acid, cyclohexylm... Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.18	4.15 ug/L	52637	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Sulfurous acid, cyclohexylmethyl...	262	C13H26O3S	1000309-21-5	58
2	Sulfurous acid, cyclohexylmethyl...	276	C14H28O3S	1000309-21-7	53
3	Sulfurous acid, butyl cyclohexyl...	234	C11H22O3S	1000309-21-4	53
4	Sulfurous acid, cyclohexylmethyl...	262	C13H26O3S	1000309-21-6	53
5	Sulfurous acid, cyclohexylmethyl...	332	C18H36O3S	1000309-21-9	52





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Acq On : 24 Dec 2018 12:42
Operator : MD/SY
Sample : J6489-07
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F75

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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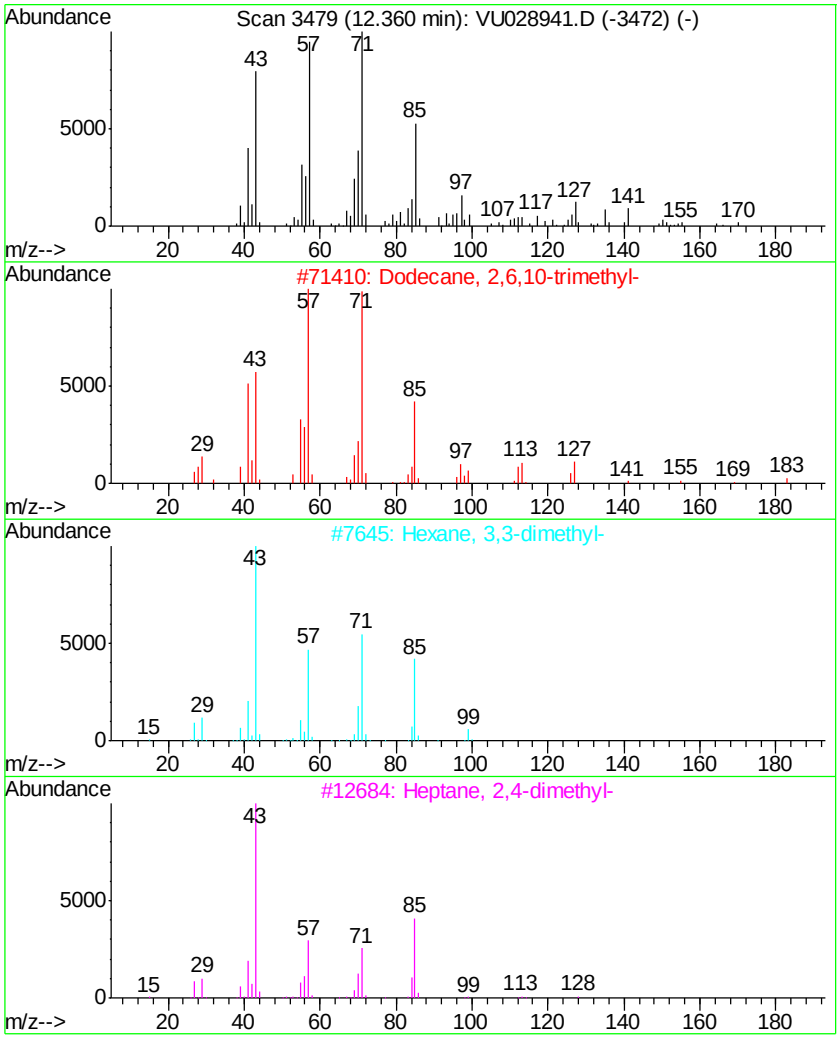
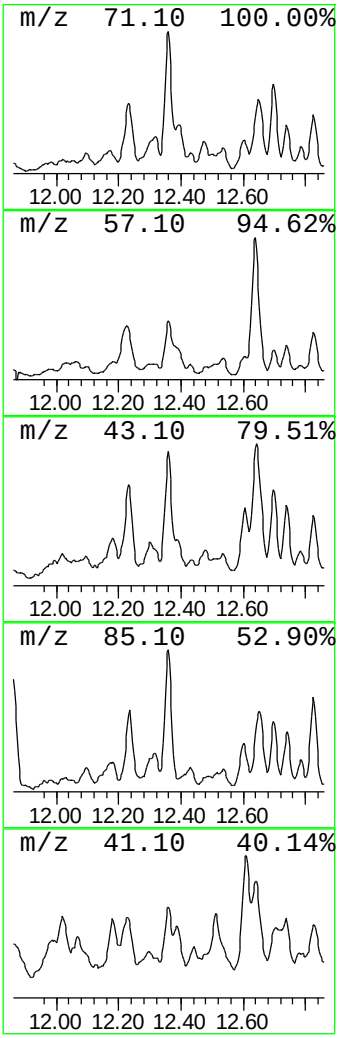
Peak Number 26 (DEL) Alkane: Straight-Chai... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.36	8.15 ug/L	103362	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 2,6,10-trimethyl-	212	C15H32	003891-98-3	80
2	Hexane, 3,3-dimethyl-	114	C8H18	000563-16-6	72
3	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	58
4	Oxalic acid, 2-ethylhexyl octyl ...	314	C18H34O4	1000309-39-1	53
5	Nonane, 5-methyl-5-propyl-	184	C13H28	017312-75-3	52





Library Search Compound Report

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Data File : VU028941.D
Acq On : 24 Dec 2018 12:42
Operator : MD/SY
Sample : J6489-07
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F75

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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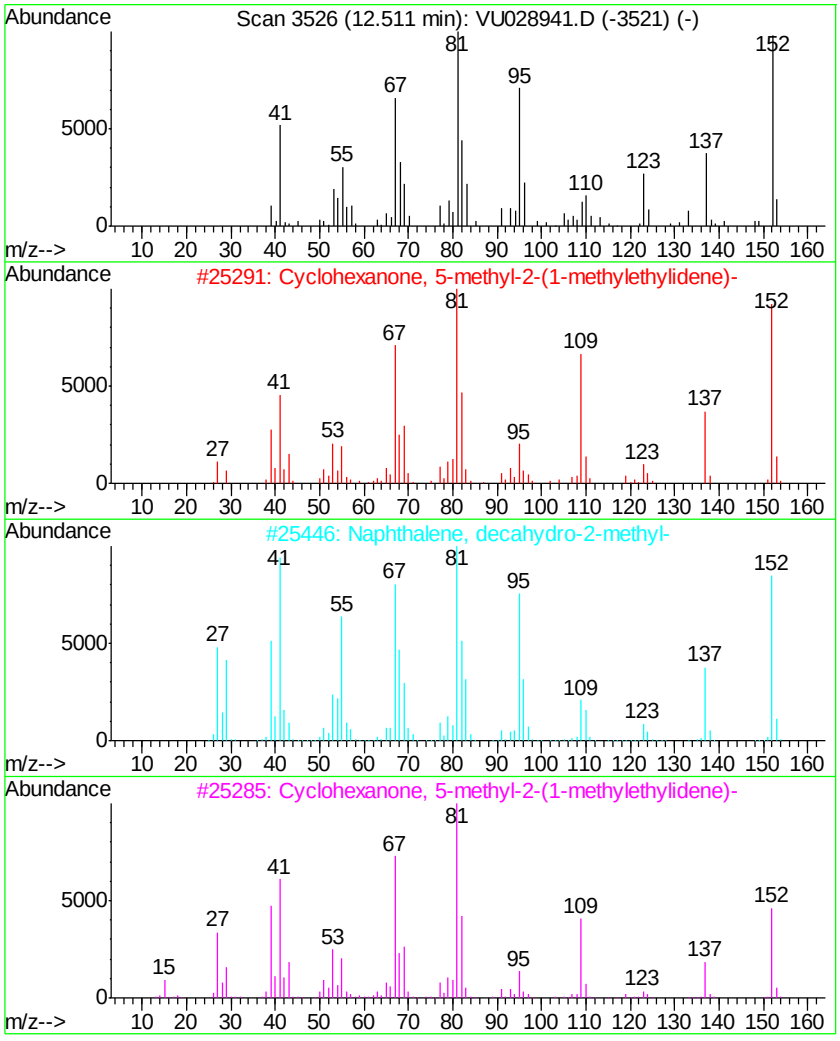
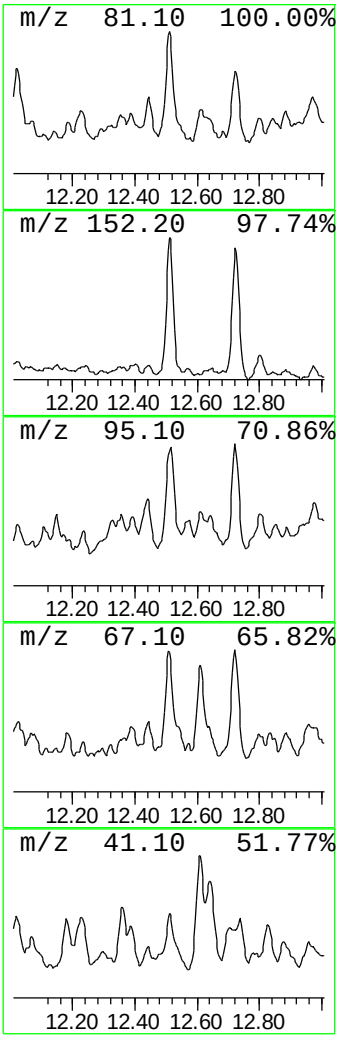
Peak Number 27 Cyclohexanone, 5-methyl-2-(... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.51	13.33 ug/L	169011	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexanone, 5-methyl-2-(1-met...	152	C10H16O	015932-80-6	90
2	Naphthalene, decahydro-2-methyl-	152	C11H20	002958-76-1	80
3	Cyclohexanone, 5-methyl-2-(1-met...	152	C10H16O	015932-80-6	74
4	Pulegone	152	C10H16O	000089-82-7	74
5	Pulegone	152	C10H16O	000089-82-7	74





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Data File : VU028941.D
Acq On : 24 Dec 2018 12:42
Operator : MD/SY
Sample : J6489-07
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F75

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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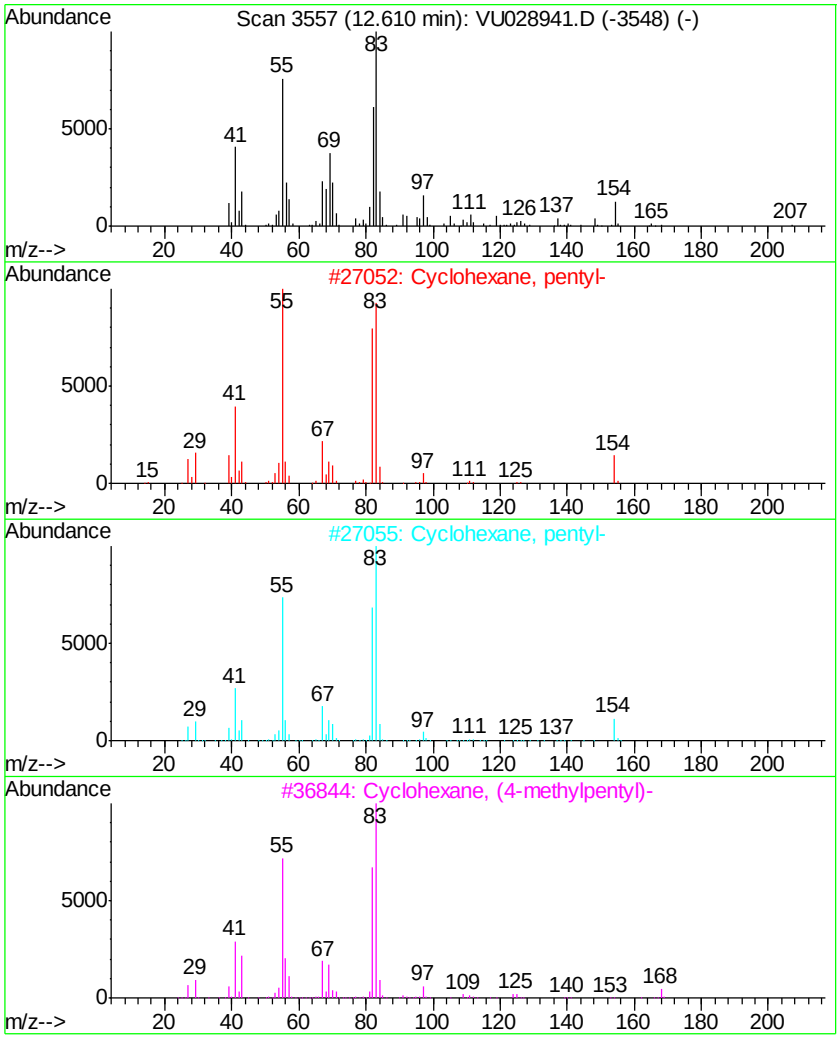
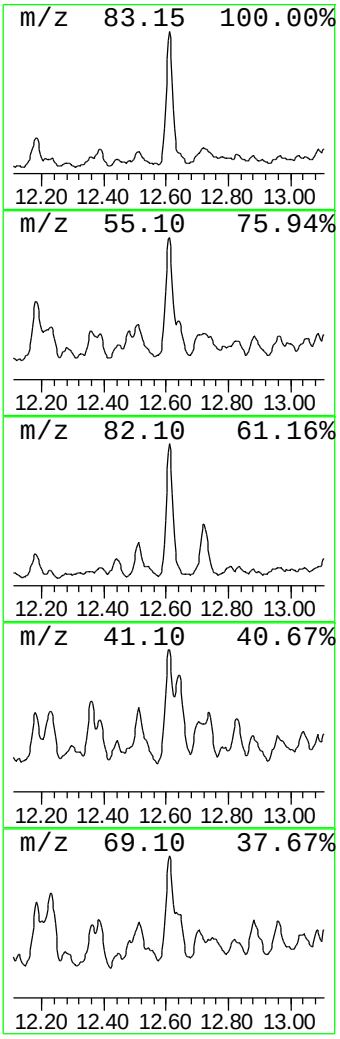
Peak Number 28 (DEL) Alkane: Cyclic12.61 Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.61	16.38 ug/L	207745	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, pentyl-	154	C11H22	004292-92-6	64
2	Cyclohexane, pentyl-	154	C11H22	004292-92-6	64
3	Cyclohexane, (4-methylpentyl)-	168	C12H24	061142-20-9	59
4	Cyclohexane, pentyl-	154	C11H22	004292-92-6	58
5	Heptylcyclohexane	182	C13H26	005617-41-4	53





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122418\
Data File : VU028941.D
Acq On : 24 Dec 2018 12:42
Operator : MD/SY
Sample : J6489-07
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F75

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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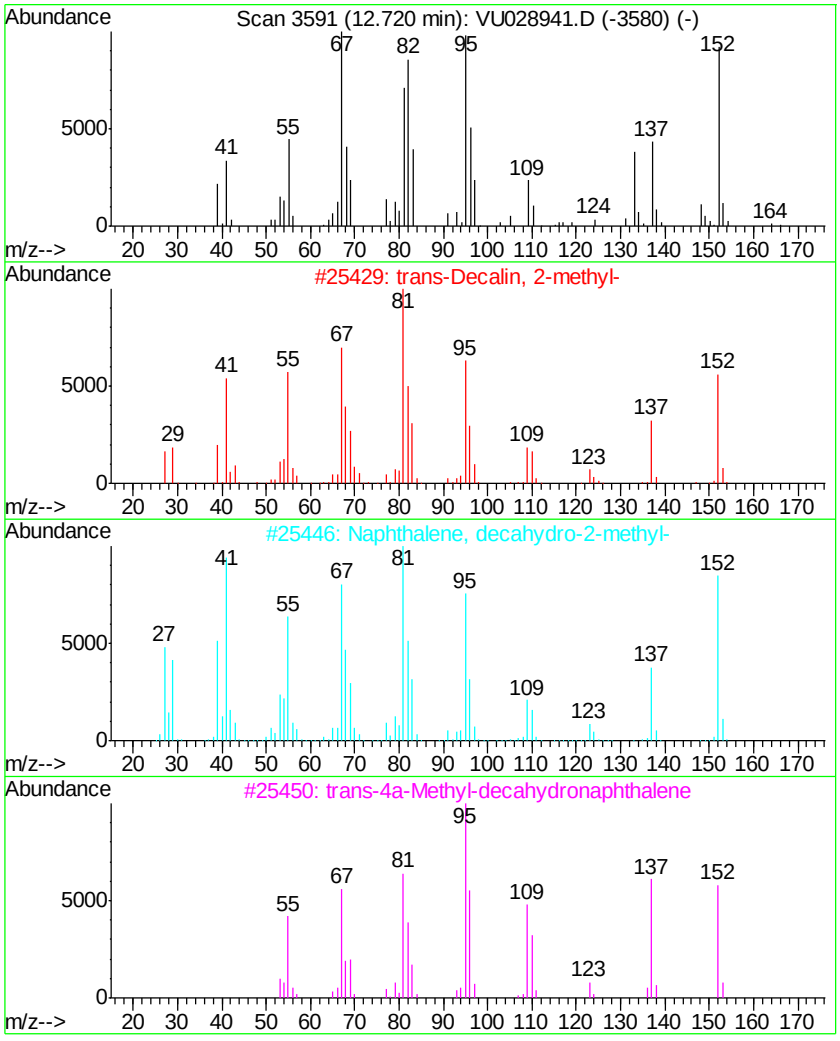
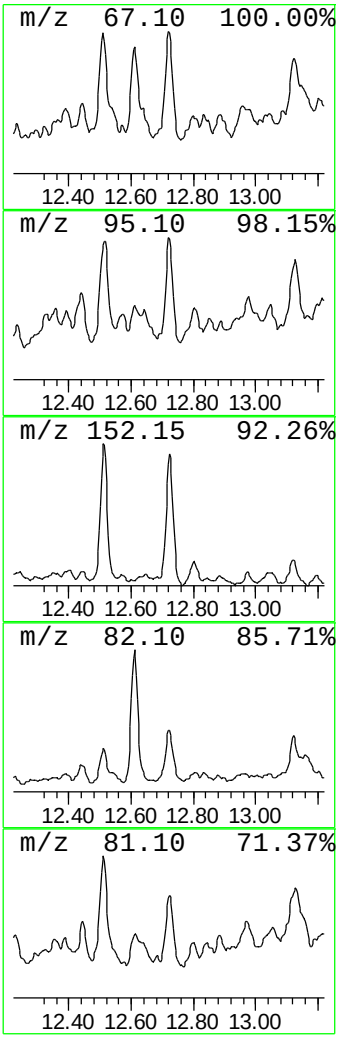
Peak Number 29 trans-Decalin, 2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.72	12.33 ug/L	156290	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	trans-Decalin, 2-methyl-	152	C11H20	1000152-47-3	74
2	Naphthalene, decahydro-2-methyl-	152	C11H20	002958-76-1	68
3	trans-4a-Methyl-decahydronaphtha...	152	C11H20	002547-27-5	62
4	Cyclododecene, (E)-	166	C12H22	001486-75-5	52
5	Cyclohexene, 1-isopentyl-	152	C11H20	003983-04-8	46





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122418\
Data File : VU028941.D
Acq On : 24 Dec 2018 12:42
Operator : MD/SY
Sample : J6489-07
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F75

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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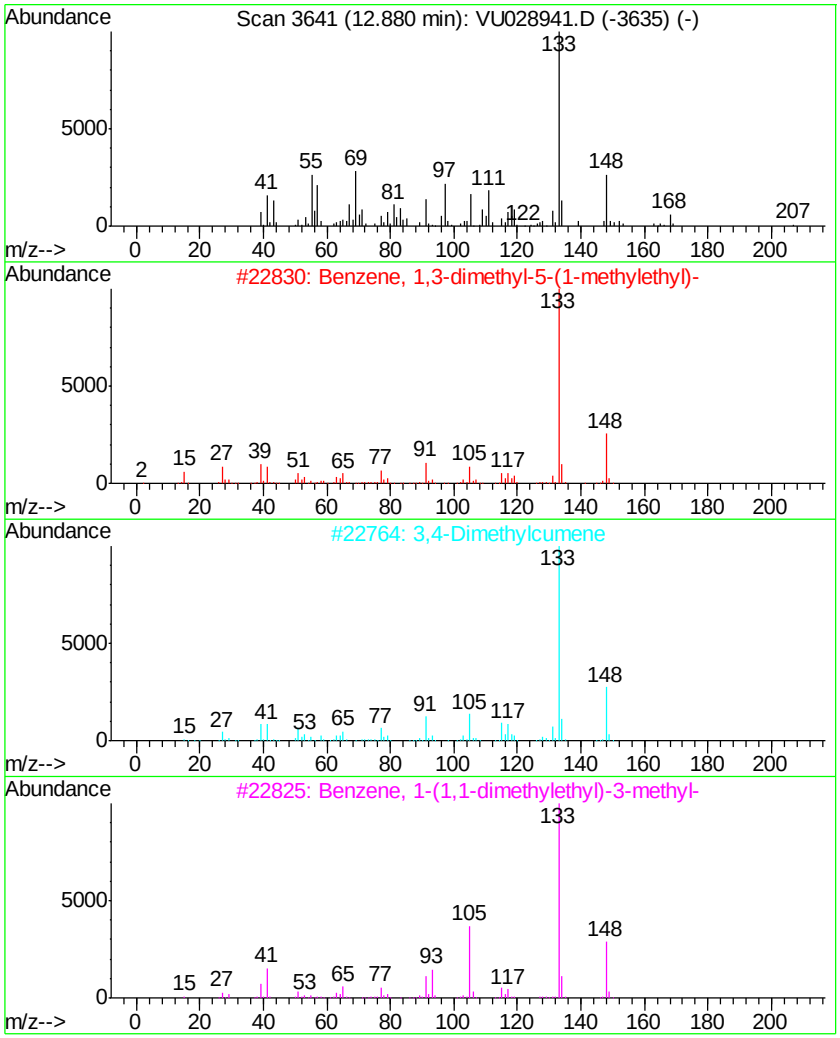
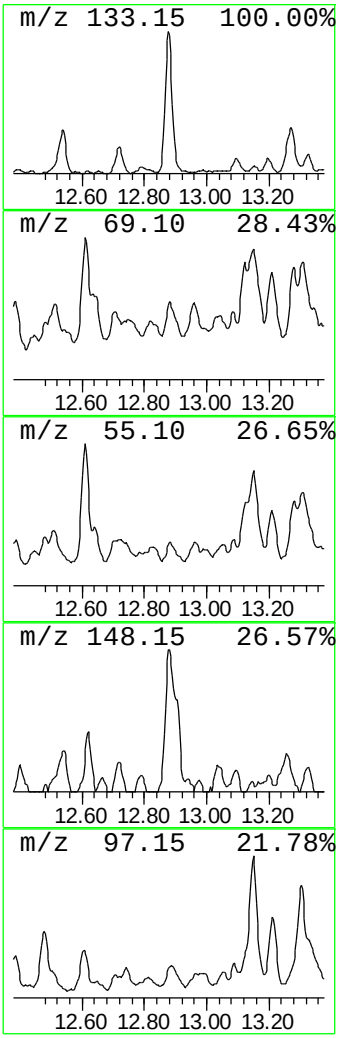
Peak Number 30 Benzene, 1,3-dimethyl-5-(1-... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.88	8.43 ug/L	106946	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,3-dimethyl-5-(1-methy...	148	C11H16	004706-90-5	76
2	3,4-Dimethylcumene	148	C11H16	1000370-34-1	76
3	Benzene, 1-(1,1-dimethylethyl)-3...	148	C11H16	001075-38-3	70
4	4-tert-Butyltoluene	148	C11H16	000098-51-1	70
5	Benzene, 2,4-dimethyl-1-(1-methy...	148	C11H16	004706-89-2	68





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122418\
Data File : VU028941.D
Acq On : 24 Dec 2018 12:42
Operator : MD/SY
Sample : J6489-07
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F75

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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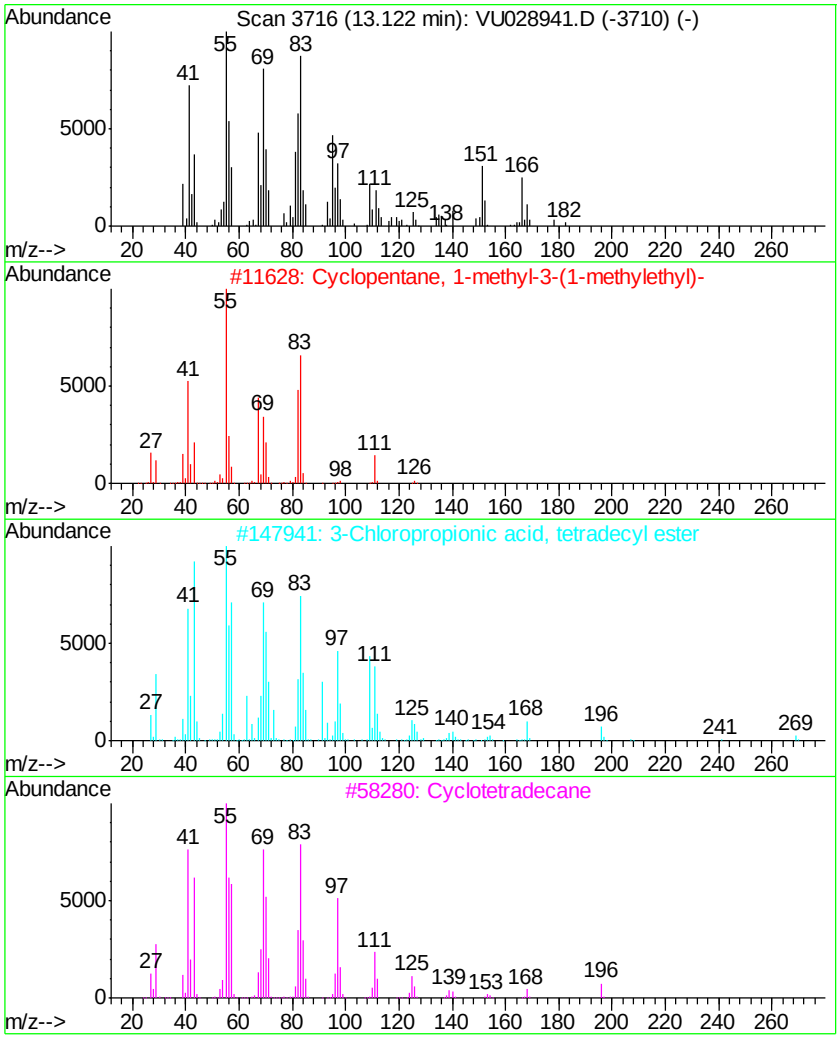
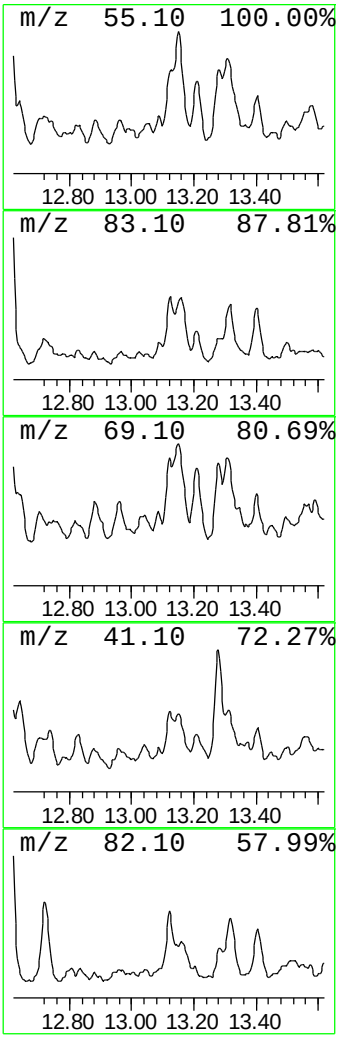
Peak Number 31 (DEL) Alkane: Cyclic13.12 Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.12	7.37 ug/L	93422	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1-methyl-3-(1-meth...	126	C9H18	053771-88-3	38
2	3-Chloropropionic acid, tetradec...	304	C17H33ClO2	064120-16-7	38
3	Cyclotetradecane	196	C14H28	000295-17-0	30
4	n-Pentadecanol	228	C15H32O	000629-76-5	30
5	1-Tridecene	182	C13H26	002437-56-1	25





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122418\
Data File : VU028941.D
Acq On : 24 Dec 2018 12:42
Operator : MD/SY
Sample : J6489-07
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F75

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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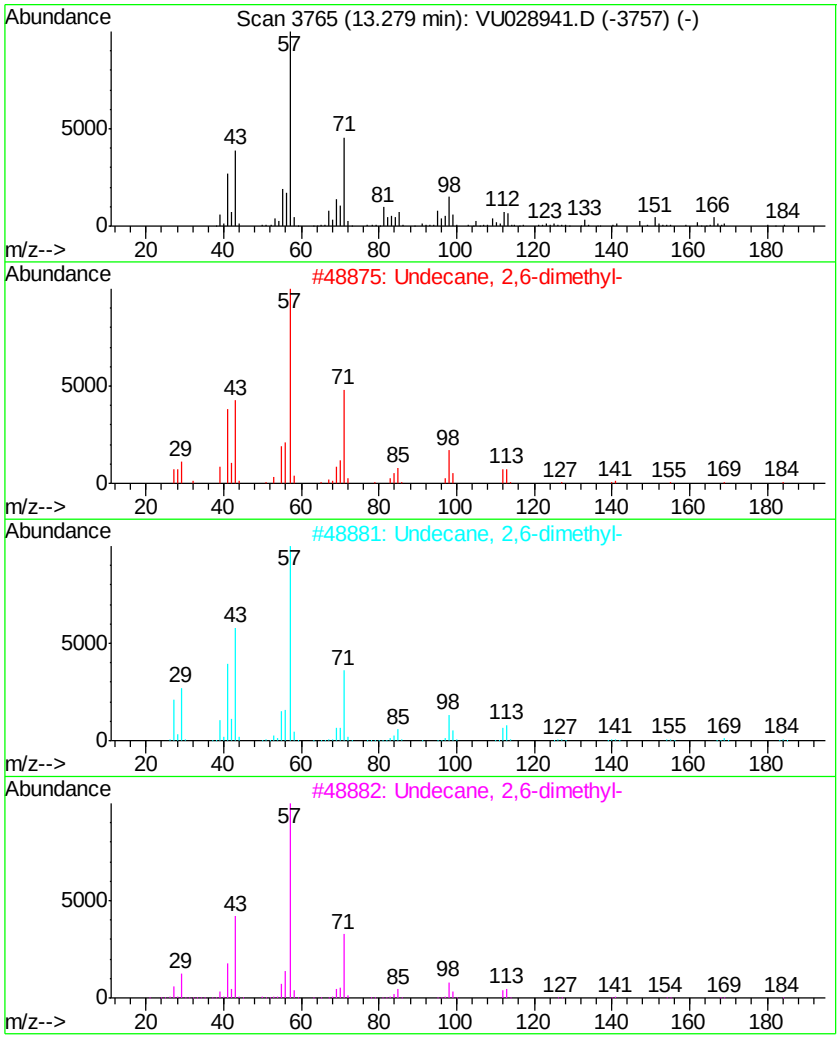
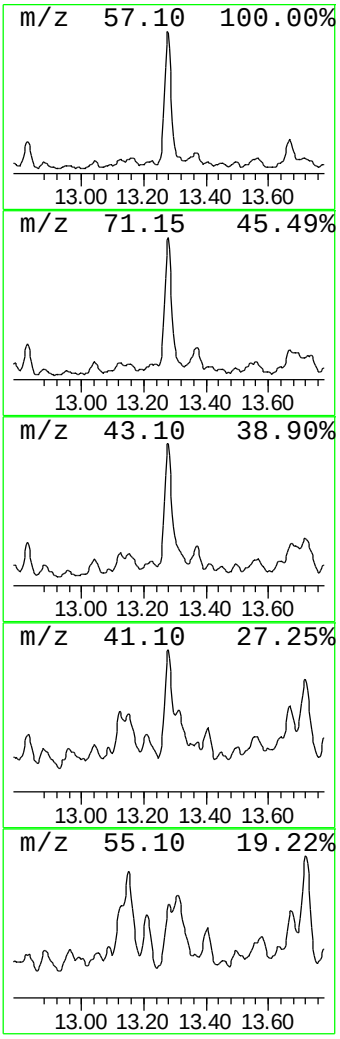
Peak Number 32 (DEL) Alkane: Straight-Chai... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.28	21.72 ug/L	275417	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 2,6-dimethyl-	184	C13H28	017301-23-4	95
2	Undecane, 2,6-dimethyl-	184	C13H28	017301-23-4	90
3	Undecane, 2,6-dimethyl-	184	C13H28	017301-23-4	76
4	Dodecane, 6-methyl-	184	C13H28	006044-71-9	76
5	Undecane, 3,6-dimethyl-	184	C13H28	017301-28-9	76





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122418\
Data File : VU028941.D
Acq On : 24 Dec 2018 12:42
Operator : MD/SY
Sample : J6489-07
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F75

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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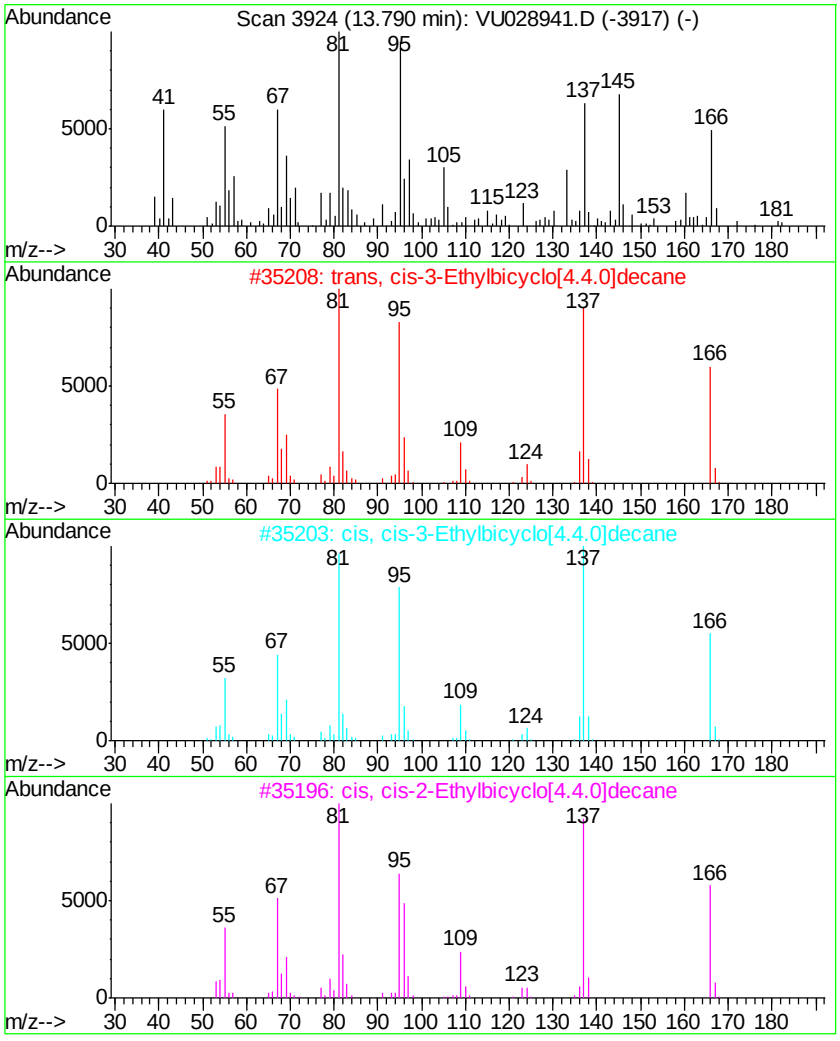
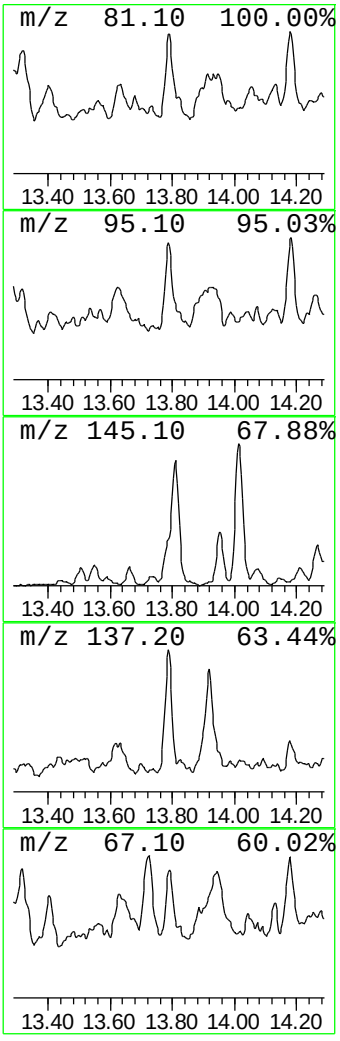
Peak Number 33 trans, cis-3-Ethylbicyclo[4... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.79	12.80 ug/L	162329	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	trans, cis-3-Ethylbicyclo[4.4.0]...	166	C12H22	066660-43-3	81
2	cis, cis-3-Ethylbicyclo[4.4.0]de...	166	C12H22	066660-42-2	68
3	cis, cis-2-Ethylbicyclo[4.4.0]de...	166	C12H22	066660-40-0	58
4	Naphthalene, decahydro-2,6-dimet...	166	C12H22	001618-22-0	53
5	Trans, trans-2-ethylbicyclo[4.4....	166	C12H22	066660-37-5	50





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122418\
Data File : VU028941.D
Acq On : 24 Dec 2018 12:42
Operator : MD/SY
Sample : J6489-07
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F75

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

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

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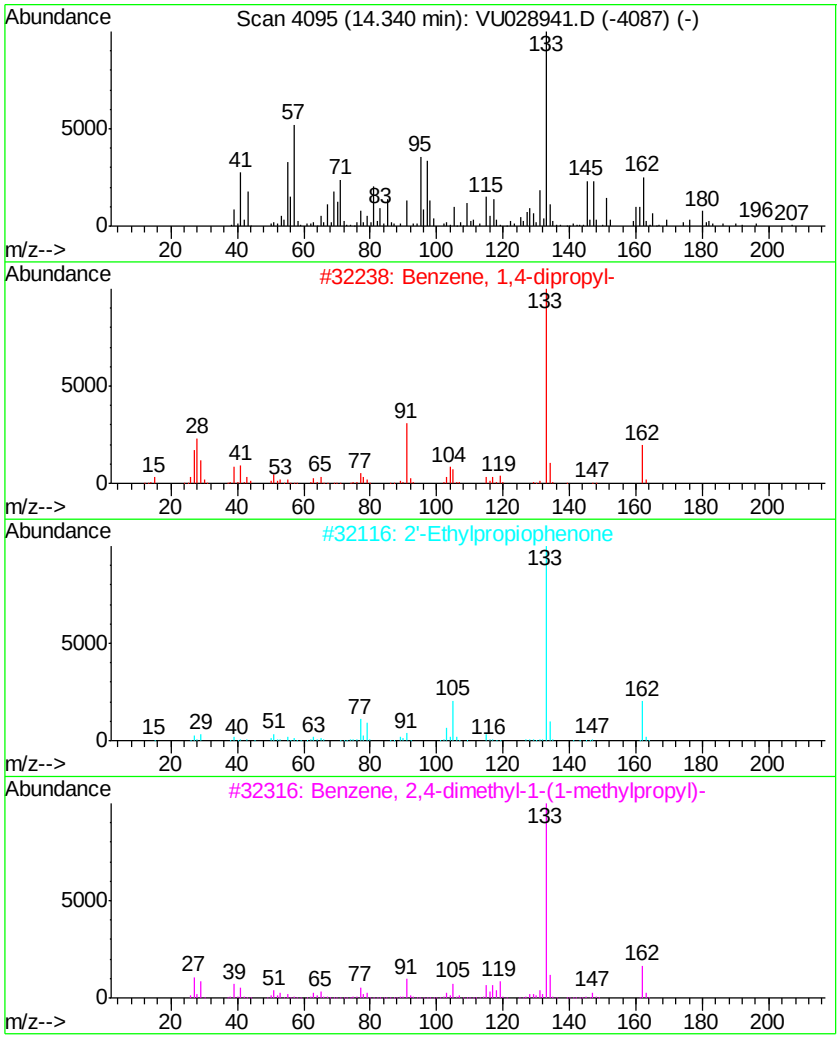
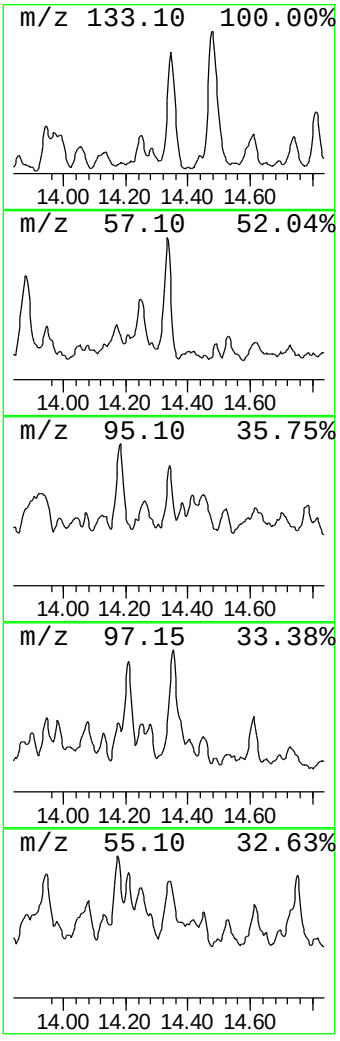
Peak Number 34 unknown-04 Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.34	12.53 ug/L	158888	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,4-dipropyl-	162	C12H18	004815-57-0	25
2	2'-Ethylpropiophenone	162	C11H14O	016819-79-7	22
3	Benzene, 2,4-dimethyl-1-(1-methy...	162	C12H18	001483-60-9	22
4	Benzene, 2,4-dimethyl-1-(1-methy...	148	C11H16	004706-89-2	14
5	1H-Imidazole, 1-[(2,4,6-trimethy...	200	C13H16N2	084567-17-9	14





Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122418\
Data File : VU028941.D
Acq On : 24 Dec 2018 12:42
Operator : MD/SY
Sample : J6489-07
Misc : 5.09g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F75

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.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...	7.77	3.3	ug/L	39678	2	9.09	595913	50.0
(DEL) Alkane: Cyc...	7.91	4.5	ug/L	54108	2	9.09	595913	50.0
(DEL) Alkane: Cyc...	8.54	4.7	ug/L	55679	2	9.09	595913	50.0
(DEL) Alkane: Cyc...	8.60	6.1	ug/L	72436	2	9.09	595913	50.0
Cyclohexene, 1,6-...	8.76	4.3	ug/L	51785	2	9.09	595913	50.0
(DEL) Alkane: Cyc...	8.85	2.9	ug/L	34440	2	9.09	595913	50.0
(DEL) Alkane: Str...	9.03	2.7	ug/L	32157	2	9.09	595913	50.0
(DEL) Alkane: Cyc...	9.35	2.8	ug/L	33117	2	9.09	595913	50.0
(DEL) Alkane: Cyc...	9.45	6.3	ug/L	75490	2	9.09	595913	50.0
unknown-01	9.57	2.7	ug/L	32450	2	9.09	595913	50.0
(DEL) Alkane: Cyc...	9.72	8.7	ug/L	103450	2	9.09	595913	50.0
unknown-02	9.82	4.8	ug/L	57273	2	9.09	595913	50.0
(DEL) Alkane: Str...	9.95	16.3	ug/L	194360	2	9.09	595913	50.0
(DEL) Alkane: Cyc...	10.04	4.9	ug/L	58916	2	9.09	595913	50.0
(DEL) Alkane: Str...	10.32	6.9	ug/L	87734	3	11.48	633967	50.0
(DEL) Alkane: Cyc...	10.75	7.0	ug/L	88139	3	11.48	633967	50.0
unknown-03	10.93	6.5	ug/L	82226	3	11.48	633967	50.0
(DEL) Alkane: Str...	11.11	10.9	ug/L	137834	3	11.48	633967	50.0
(DEL) Alkane: Str...	11.33	7.7	ug/L	97594	3	11.48	633967	50.0
(DEL) Alkane: Cyc...	11.40	5.9	ug/L	74472	3	11.48	633967	50.0
Oxalic acid, buty...	11.57	3.3	ug/L	42192	3	11.48	633967	50.0
(DEL) Alkane: Str...	11.61	4.0	ug/L	50021	3	11.48	633967	50.0
(DEL) Alkane: Str...	11.70	5.9	ug/L	74601	3	11.48	633967	50.0
Sulfurous acid, c...	12.18	4.2	ug/L	52637	3	11.48	633967	50.0
(DEL) Alkane: Str...	12.36	8.2	ug/L	103362	3	11.48	633967	50.0
Cyclohexanone, 5-...	12.51	13.3	ug/L	169011	3	11.48	633967	50.0
(DEL) Alkane: Cyc...	12.61	16.4	ug/L	207745	3	11.48	633967	50.0
trans-Decalin, 2-...	12.72	12.3	ug/L	156290	3	11.48	633967	50.0
Benzene, 1,3-dime...	12.88	8.4	ug/L	106946	3	11.48	633967	50.0
(DEL) Alkane: Cyc...	13.12	7.4	ug/L	93422	3	11.48	633967	50.0
(DEL) Alkane: Str...	13.28	21.7	ug/L	275417	3	11.48	633967	50.0
trans, cis-3-Ethy...	13.79	12.8	ug/L	162329	3	11.48	633967	50.0
unknown-04	14.34	12.5	ug/L	158888	3	11.48	633967	50.0