LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU122418\
Data File : VU028946.D
Acq On : 24 Dec 2018 14:42
Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

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	2.231	318	329	345	rVV	176405	271782	4.31%	0.295%
2	4.643	1062	1079	1104	rBV	122238	306383	4.86%	0.333%
3	5.202	1237	1253	1273	rBV2	95357	250850	3.98%	0.272%
4	5.327	1273	1292	1312	rVB2	284553	784734	12.45%	0.852%
5	5.610	1368	1380	1396	rVB3	111884	253644	4.03%	0.275%
6	5.880	1450	1464	1475	rBV	267173	557369	8.85%	0.605%
7	6.327	1590	1603	1612	rBV	171566	354229	5.62%	0.385%
8	6.405	1613	1627	1640	rVV2	381918	890898	14.14%	0.968%
9	6.633	1684	1698	1715	rBV	128135	256256	4.07%	0.278%
10	6.897	1769	1780	1803	rVB3	96036	229255	3.64%	0.249%
11	7.173	1857	1866	1873	rVV	139795	247800	3.93%	0.269%
12	7.221	1873	1881	1899	rVB3	156031	353808	5.61%	0.384%
13	7.424	1934	1944	1960	rVB3	132287	266984	4.24%	0.290%
14	7.524	1961	1975	1980	rBV2	289835	537967	8.54%	0.584%
15	7.562	1981	1987	2004	rVB	440517	795637	12.63%	0.864%
16	7.845	2060	2075	2086	rVV5	98645	233028	3.70%	0.253%
17	7.913	2086	2096	2113	rVB3	235016	484830	7.69%	0.527%
18	8.327	2214	2225	2236	rBV2	451868	835795	13.26%	0.908%
19	8.485	2267	2274	2282	rVB3	177742	284604	4.52%	0.309%
20	8.543	2282	2292	2300	rBV	262147	439548	6.98%	0.477%
21	8.604	2303	2311	2321	rVB	257055	422086	6.70%	0.458%
22	8.752	2344	2357	2368	rBV6	198476	422575	6.71%	0.459%
23	8.845	2380	2386	2397	rVV3	114645	273362	4.34%	0.297%
24	8.906	2398	2405	2414	rVB3	207041	328372	5.21%	0.357%
25	9.028	2432	2443	2453	rVB	358533	616323	9.78%	0.669%
26	9.093	2453	2463	2473	rBV	385651	651208	10.33%	0.707%
27	9.350	2530	2543	2548	rBV5	176679	396159	6.29%	0.430%
28	9.446	2566	2573	2592	rVB6	153683	384517	6.10%	0.418%
29	9.716	2644	2657	2667	rBV4	283419	578886	9.19%	0.629%
30	9.951	2713	2730	2739	rBV2	641875	1235590	19.61%	1.342%
31	10.044	2750	2759	2767	rBV5	387052	710550	11.28%	0.772%
32	10.089	2768	2773	2785	rVB	265954	413515	6.56%	0.449%
33	10.163	2787	2796	2805	rBV8	176109	335793	5.33%	0.365%
34	10.321	2833	2845	2851	rBV3	296863	546140	8.67%	0.593%

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU122418\
Data File : VU028946.D
Acq On : 24 Dec 2018 14:42
Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

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	10.443	2871	2883	2892	rBV2	404417	979721	15.55%	1.064%
36	10.488	2892	2897	2907	rVB5	286735	447275	7.10%	0.486%
37	10.588	2921	2928	2935	rBV	175877	230188	3.65%	0.250%
38	10.707	2955	2965	2971	rBV	416890	665164	10.56%	0.722%
39	10.748	2972	2978	2990	rVB4	367267	582030	9.24%	0.632%
40	10.929	3025	3034	3040	rBV3	225890	389377	6.18%	0.423%
41	10.974	3041	3048	3054	rBV3	214633	331091	5.25%	0.360%
42	11.073	3071	3079	3085	rBV4	203746	319076	5.06%	0.347%
43	11.115	3085	3092	3097	rVV	393607	554716	8.80%	0.602%
44	11.147	3098	3102	3115	rVB	259657	395175	6.27%	0.429%
45	11.330	3152	3159	3171	rVB7	262319	457071	7.25%	0.496%
46	11.398	3173	3180	3185	rBV2	407509	608030	9.65%	0.660%
47	11.482	3198	3206	3215	rBV3	628482	960919	15.25%	1.044%
48	11.572	3227	3234	3241	rVB	374508	477876	7.58%	0.519%
49	11.774	3287	3297	3304	rBV3	547685	1081291	17.16%	1.174%
50	11.861	3315	3324	3346	rVB7	1037678	2429957	38.56%	2.639%
51	12.147	3405	3413	3418	rBV	407503	625977	9.93%	0.680%
52	12.250	3437	3445	3452	rBV	800767	1109730	17.61%	1.205%
53	12.289	3453	3457	3466	rVB2	413996	530782	8.42%	0.576%
54	12.356	3469	3478	3484	rBV	895157	1529662	24.27%	1.661%
55	12.504	3513	3524	3532	rBV5	394557	977363	15.51%	1.062%
56	12.610	3549	3557	3563	rBV3	588868	974295	15.46%	1.058%
57	12.649	3564	3569	3577	rVB2	559423	802340	12.73%	0.871%
58	12.703	3578	3586	3602	rVB	1135916	2219434	35.22%	2.411%
59	12.787	3604	3612	3618	rBV2	558262	896928	14.23%	0.974%
60	12.964	3660	3667	3675	rVB2	882639	1191109	18.90%	1.294%
61	13.031	3682	3688	3696	rVB2	319344	414723	6.58%	0.450%
62	13.083	3697	3704	3708	rBV3	326844	488354	7.75%	0.530%
63	13.121	3708	3716	3734	rVB2	1321555	2504223	39.74%	2.720%
64	13.237	3746	3752	3758	rVB	278078	335874	5.33%	0.365%
65	13.282	3759	3766	3773	rBV7	378795	676093	10.73%	0.734%
66	13.404	3797	3804	3811	rBV2	491804	720267	11.43%	0.782%
67	13.456	3812	3820	3828	rBV	964979	1444392	22.92%	1.569%
68	13.507	3828	3836	3842	rBV4	807105	1234371	19.59%	1.341%
69	13.610	3862	3868	3873	rBV	739244	888341	14.10%	0.965%
70	13.787	3916	3923	3935	rBV2	482063	927569	14.72%	1.007%
71	13.954	3967	3975	3984	rBV5	628770	1169390	18.56%	1.270%

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU122418\
Data File : VU028946.D
Acq On : 24 Dec 2018 14:42
Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

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	14.150	4028	4036	4051	rBV3	692157	1300388	20.64%	1.412%
73	14.334	4084	4093	4104	rBV3	1243683	2328295	36.95%	2.529%
74	14.478	4133	4138	4148	rVB3	391636	547479	8.69%	0.595%
75	14.543	4150	4158	4168	rVB4	1075749	2032592	32.26%	2.208%
76	14.607	4169	4178	4189	rBV7	409409	775311	12.30%	0.842%
77	14.684	4193	4202	4213	rBV6	663584	1385727	21.99%	1.505%
78	14.819	4237	4244	4251	rBV5	366745	557455	8.85%	0.605%
79	14.861	4252	4257	4269	rVV4	410963	655314	10.40%	0.712%
80	15.012	4297	4304	4309	rBV3	401556	609589	9.67%	0.662%
81	15.060	4310	4319	4331	rVB	3817277	6101656	96.83%	6.627%
82	15.424	4426	4432	4440	rBV5	237032	343239	5.45%	0.373%
83	15.588	4477	4483	4498	rVB2	575464	993034	15.76%	1.079%
84	15.668	4501	4508	4517	rVB6	356963	552800	8.77%	0.600%
85	15.832	4547	4559	4571	rVB3	663452	1608270	25.52%	1.747%
86	15.919	4573	4586	4605	rVV	3559799	6301446	100.00%	6.844%
87	16.060	4620	4630	4636	rBV	3372602	5194120	82.43%	5.641%
88	16.099	4636	4642	4659	rVB	2289210	3717003	58.99%	4.037%
89	16.282	4685	4699	4708	rBV	1184002	2375627	37.70%	2.580%
90	16.430	4738	4745	4755	rVB	346701	492600	7.82%	0.535%
91	16.533	4770	4777	4789	rVB	433795	681734	10.82%	0.740%
92	16.768	4842	4850	4862	rVB	982930	1477813	23.45%	1.605%
93	16.825	4863	4868	4875	rVB	230309	290909	4.62%	0.316%
94	16.867	4875	4881	4890	rVB2	192185	280209	4.45%	0.304%
95	16.938	4892	4903	4907	rBV3	233406	405605	6.44%	0.441%
96	16.970	4908	4913	4921	rVV	355753	483131	7.67%	0.525%
97	17.018	4921	4928	4943	rVB3	308964	668258	10.60%	0.726%
98	17.166	4967	4974	4983	rVB	215211	326312	5.18%	0.354%
99	17.227	4984	4993	5015	rVB4	267233	589988	9.36%	0.641%
100	17.362	5030	5035	5069	rVB3	168590	475608	7.55%	0.517%

Sum of corrected areas: 92072163

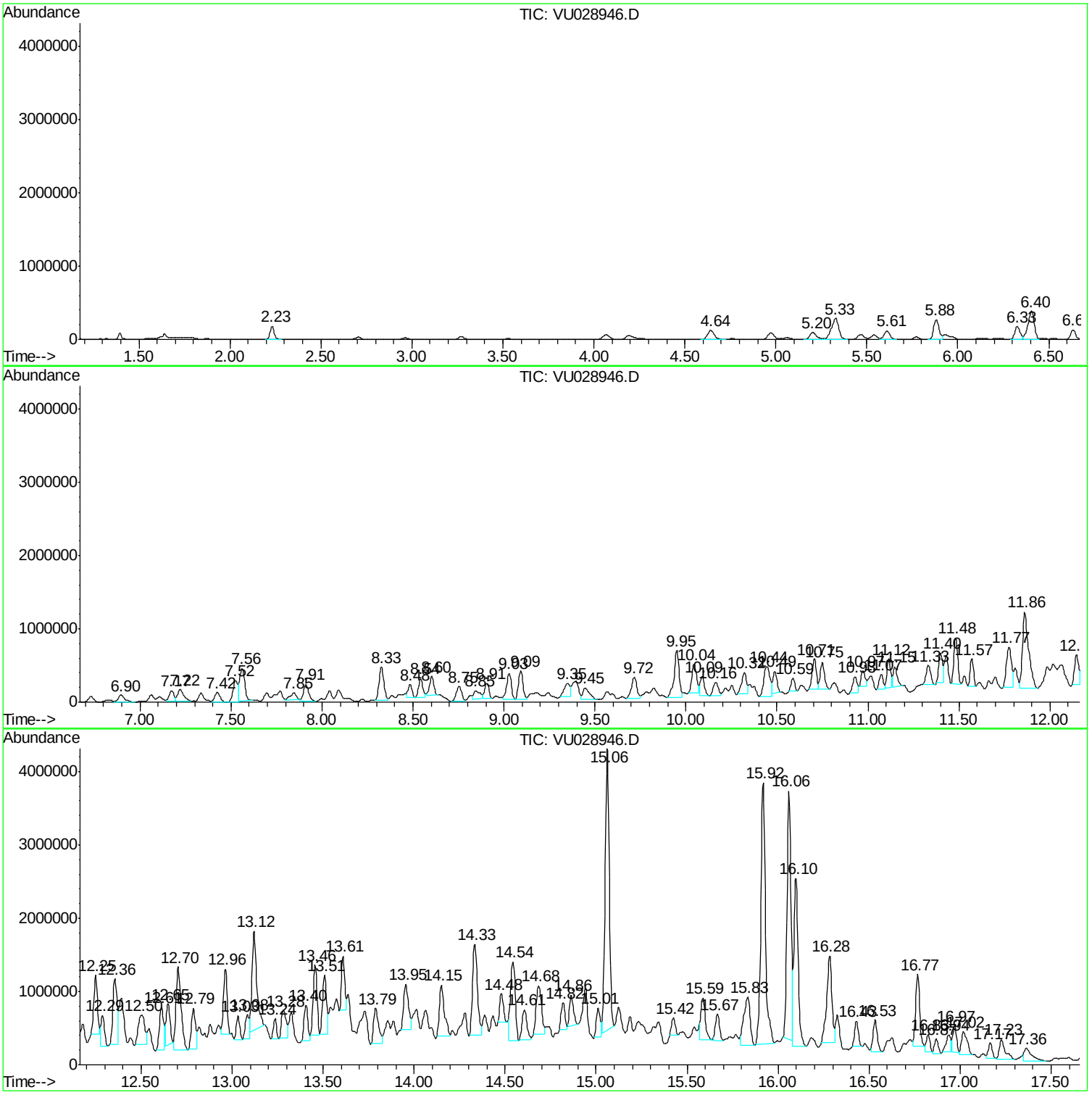
LSC Report - Integrated Chromatogram

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU122418\
Data File : VU028946.D
Acq On : 24 Dec 2018 14:42
Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

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 : VU028946.D
Acq On : 24 Dec 2018 14:42
Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

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

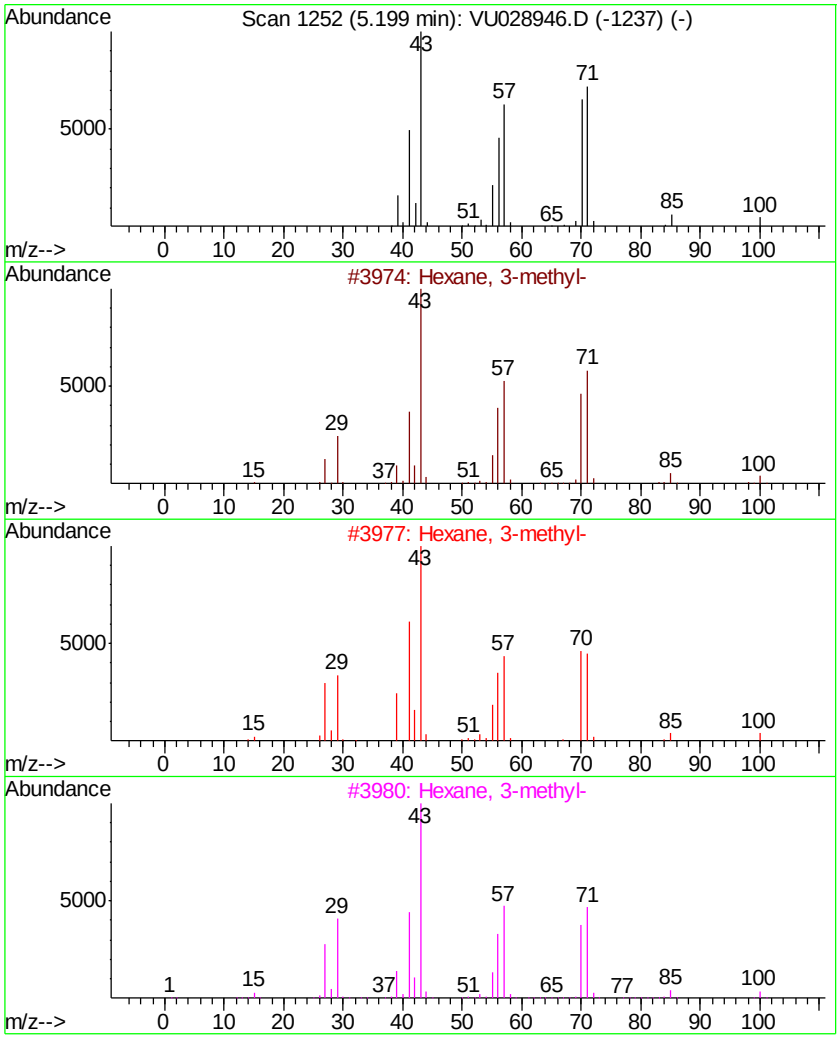
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

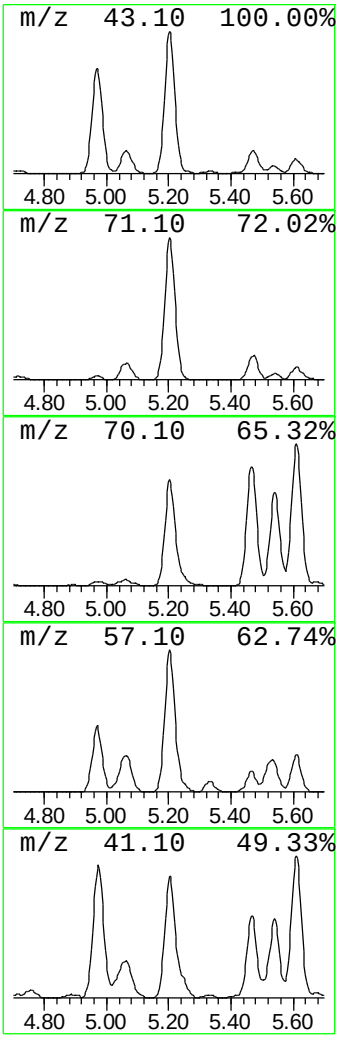
****

Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 68

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.20	22.50 ug/L	250850	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	91
3	Hexane, 3-methyl-	100	C7H16	000589-34-4	80
4	Heptane, 4-methyl-	114	C8H18	000589-53-7	53
5	Decane, 3,3,4-trimethyl-	184	C13H28	049622-18-6	53





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU122418\
Data File : VU028946.D
Acq On : 24 Dec 2018 14:42
Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

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

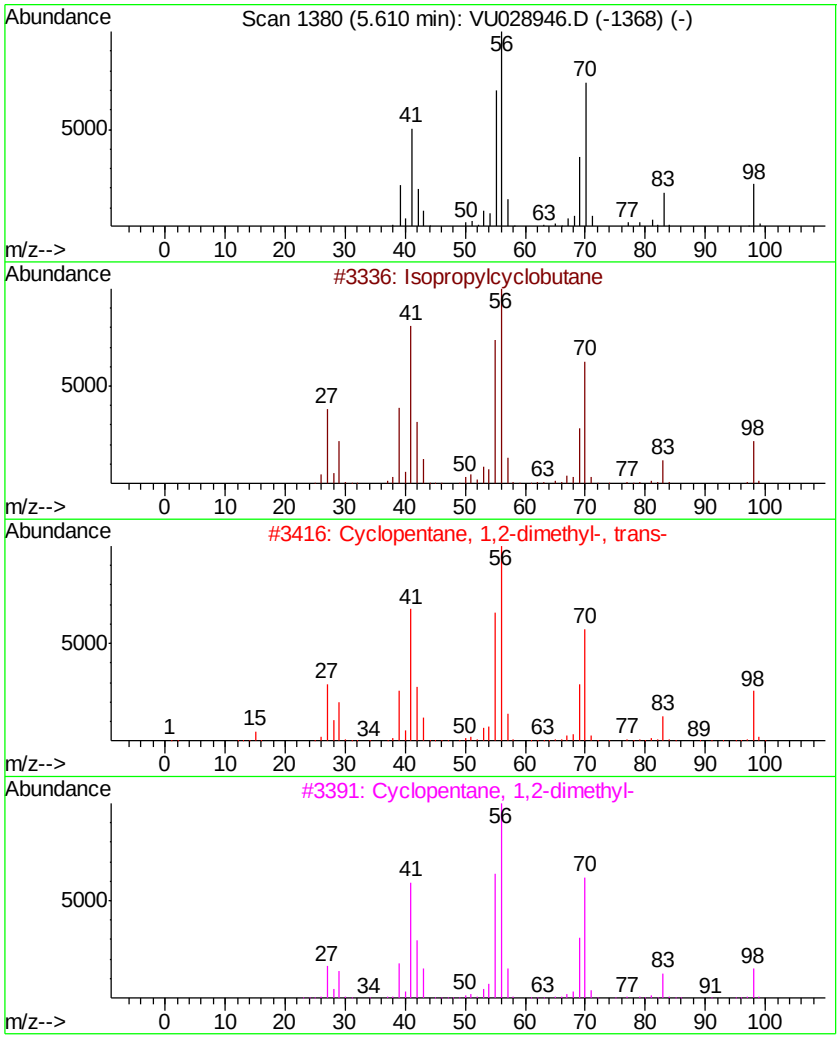
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

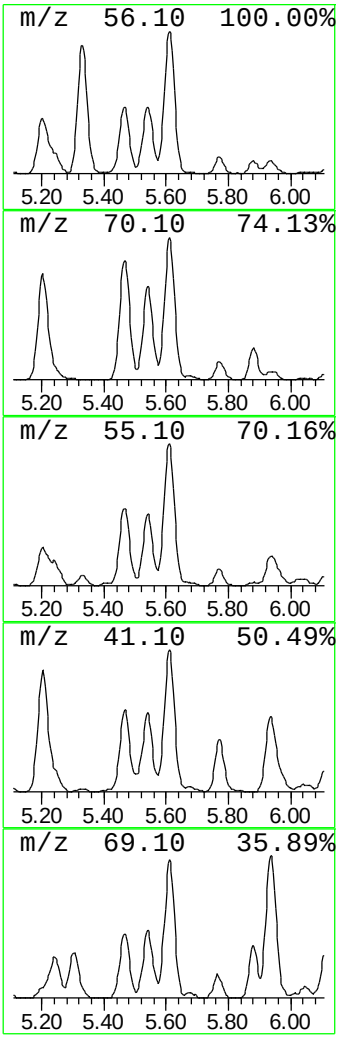
****

Peak Number 2 (DEL) Alkane: Cyclic5.61 Concentration Rank 67

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.61	22.75 ug/L	253644	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-, trans-	98	C7H14	000822-50-4	91
3	Cyclopentane, 1,2-dimethyl-	98	C7H14	002452-99-5	91
4	Cyclopentane, 1,2-dimethyl-, trans-	98	C7H14	000822-50-4	87
5	Cyclopentane, 1,3-dimethyl-	98	C7H14	002453-00-1	80





Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU122418\
Data File : VU028946.D
Acq On : 24 Dec 2018 14:42
Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

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

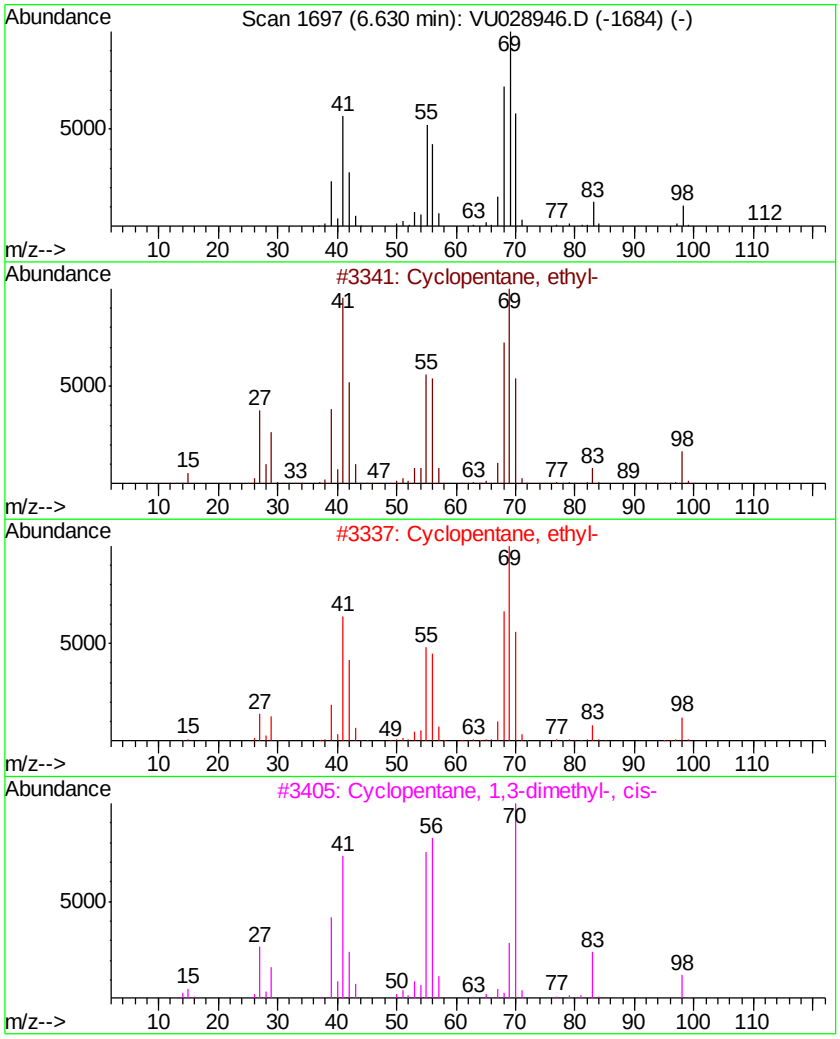
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

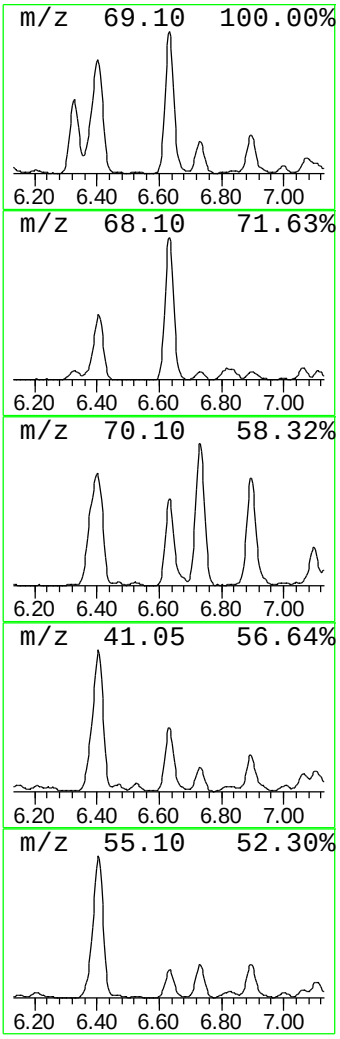
****

Peak Number 3 (DEL) Alkane: Cyclic6.63 Concentration Rank 66

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.63	22.99 ug/L	256256	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, ethyl-	98	C7H14	001640-89-7	94
2	Cyclopentane, ethyl-	98	C7H14	001640-89-7	93
3	Cyclopentane, 1,3-dimethyl-, cis-	98	C7H14	002532-58-3	50
4	3-Hexene, 2-methyl-, (E)-	98	C7H14	000692-24-0	49
5	1-Pentene, 3-ethyl-	98	C7H14	004038-04-4	46





Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU122418\
Data File : VU028946.D
Acq On : 24 Dec 2018 14:42
Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

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

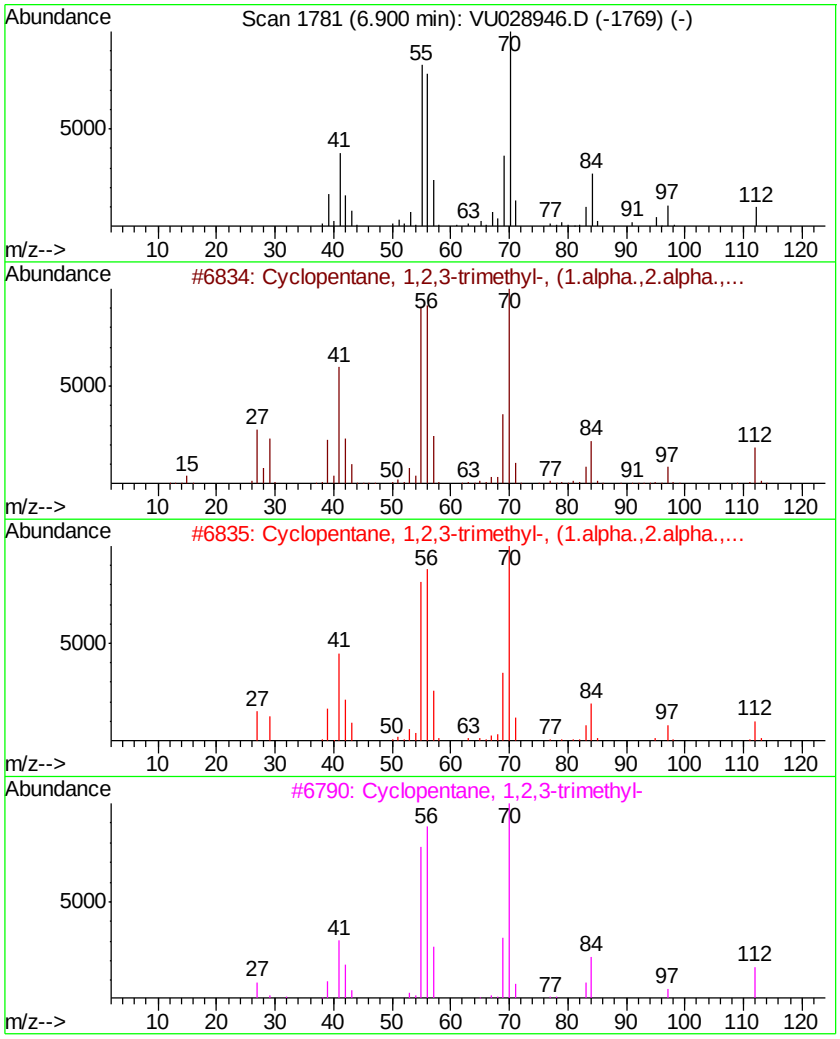
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

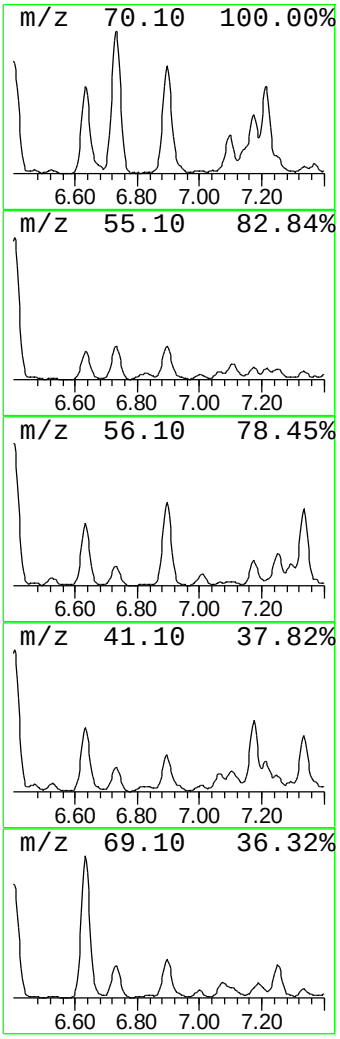
****

Peak Number 4 (DEL) Alkane: Cyclic6.90 Concentration Rank 74

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.90	20.57 ug/L	229255	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	95
2	Cyclopentane, 1,2,3-trimethyl-, ...	112	C8H16	015890-40-1	91
3	Cyclopentane, 1,2,3-trimethyl-	112	C8H16	002815-57-8	91
4	1-Heptene, 3-methyl-	112	C8H16	004810-09-7	87
5	Cyclopentane, 1,3-dimethyl-, cis-	98	C7H14	002532-58-3	59





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU122418\
Data File : VU028946.D
Acq On : 24 Dec 2018 14:42
Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

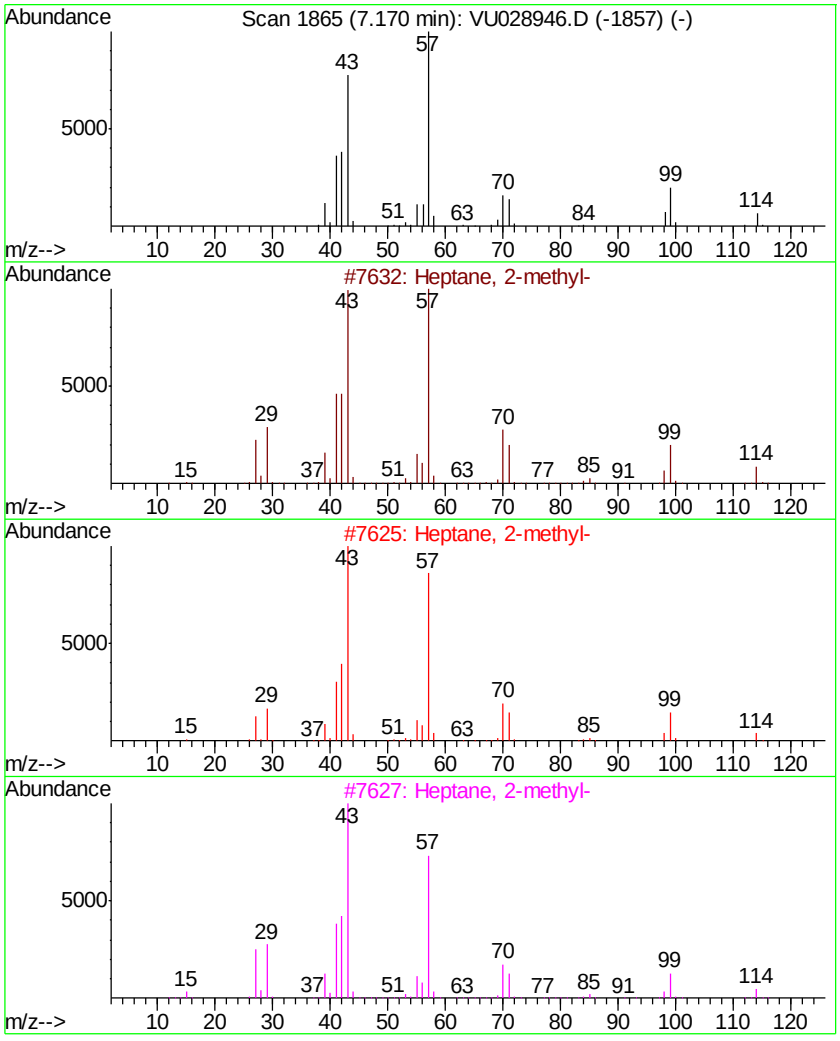
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

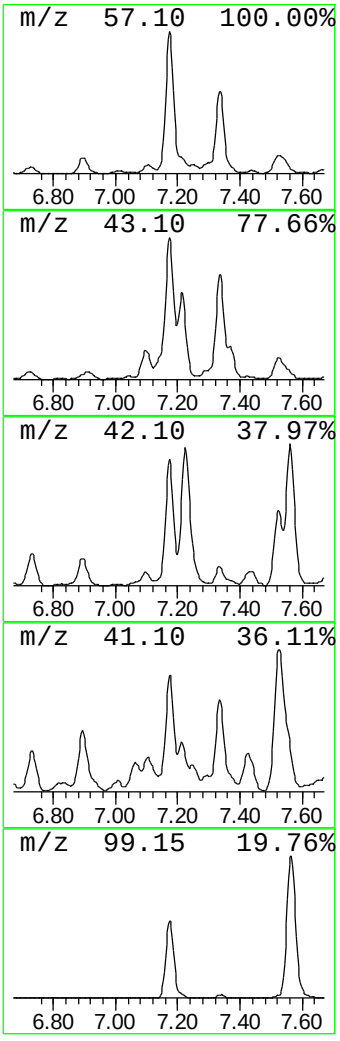
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 69

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.17	22.23 ug/L	247800	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2-methyl-	114	C8H18	000592-27-8	90
2	Heptane, 2-methyl-	114	C8H18	000592-27-8	74
3	Heptane, 2-methyl-	114	C8H18	000592-27-8	72
4	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	58
5	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	58





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU122418\
Data File : VU028946.D
Acq On : 24 Dec 2018 14:42
Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

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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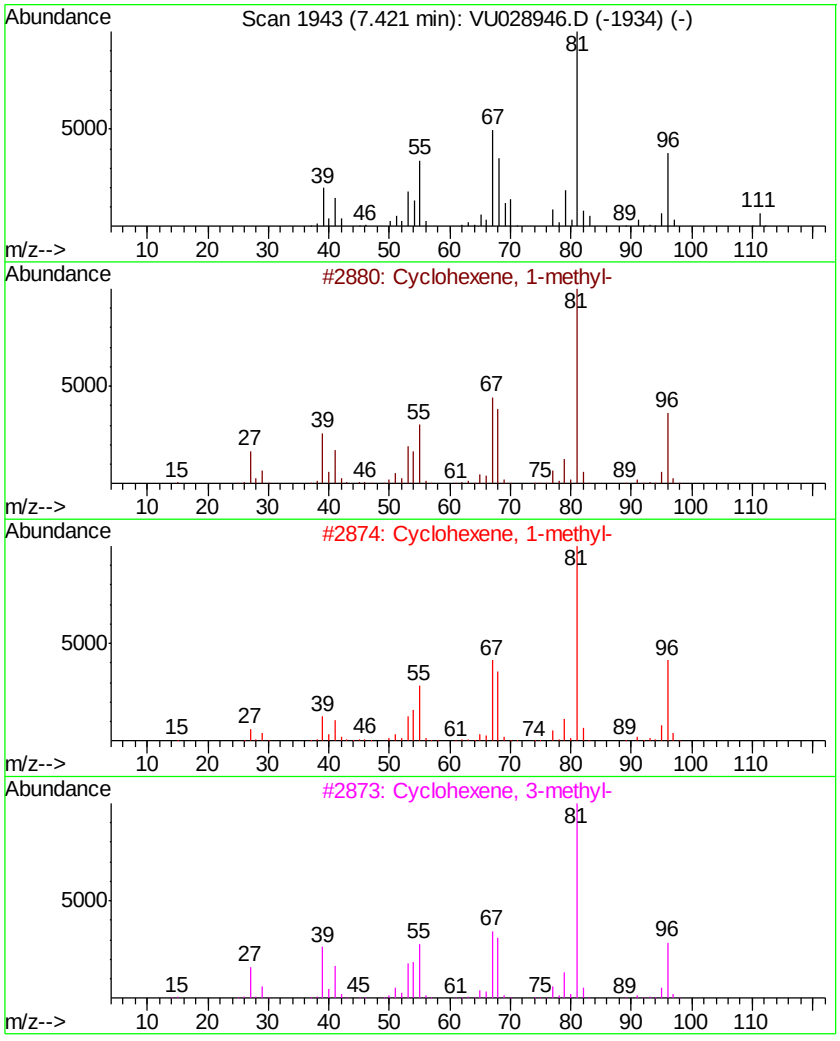
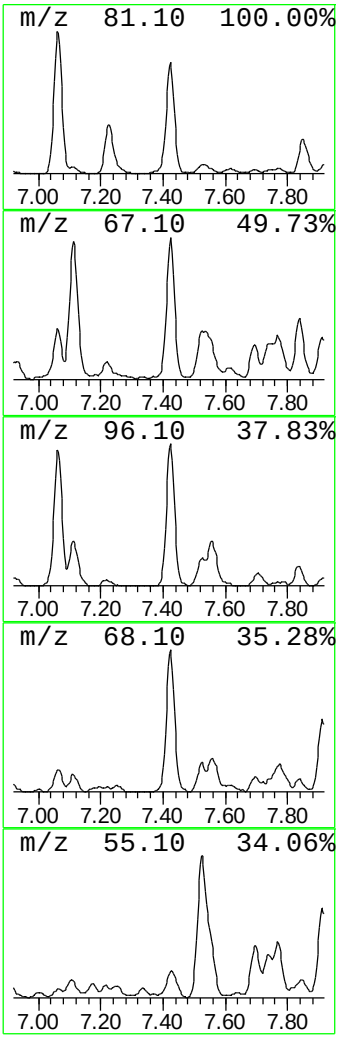
Peak Number 7 Cyclohexene, 1-methyl- Concentration Rank 63

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.42	23.95 ug/L	266984	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexene, 1-methyl-	96	C7H12	000591-49-1	94
2	Cyclohexene, 1-methyl-	96	C7H12	000591-49-1	94
3	Cyclohexene, 3-methyl-	96	C7H12	000591-48-0	91
4	Cyclohexene, 1-methyl-	96	C7H12	000591-49-1	76
5	Cyclohexene, 4-methyl-	96	C7H12	000591-47-9	76





Library Search Compound Report

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Data File : VU028946.D
Acq On : 24 Dec 2018 14:42
Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

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

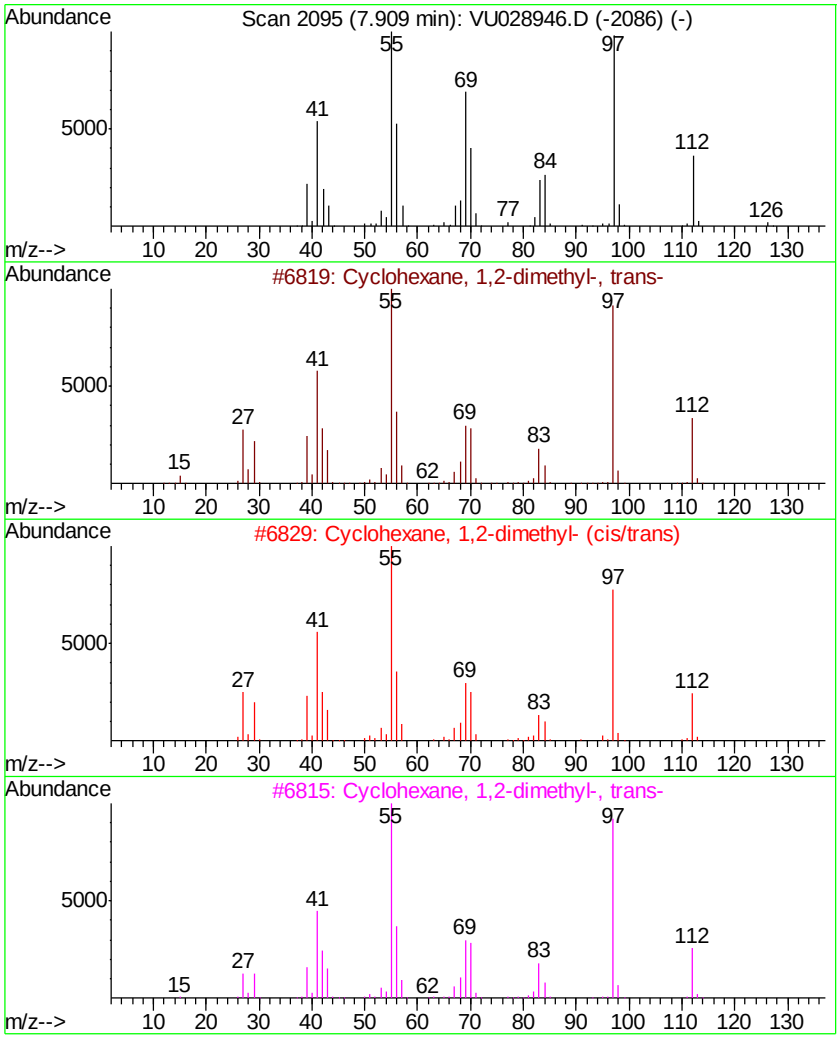
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

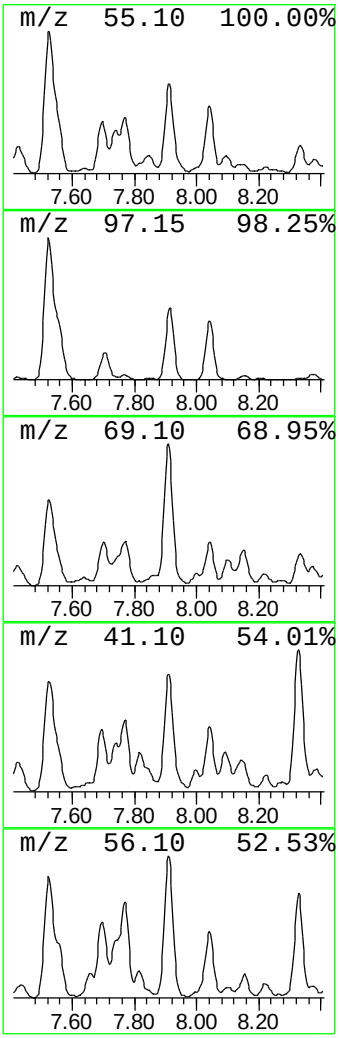
****

Peak Number 8 (DEL) Alkane: Cyclic7.91 Concentration Rank 34

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.91	37.23 ug/L	484830	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- (cis/...	112	C8H16	000583-57-3	90
3	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	90
4	Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	83
5	Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	64





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Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

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

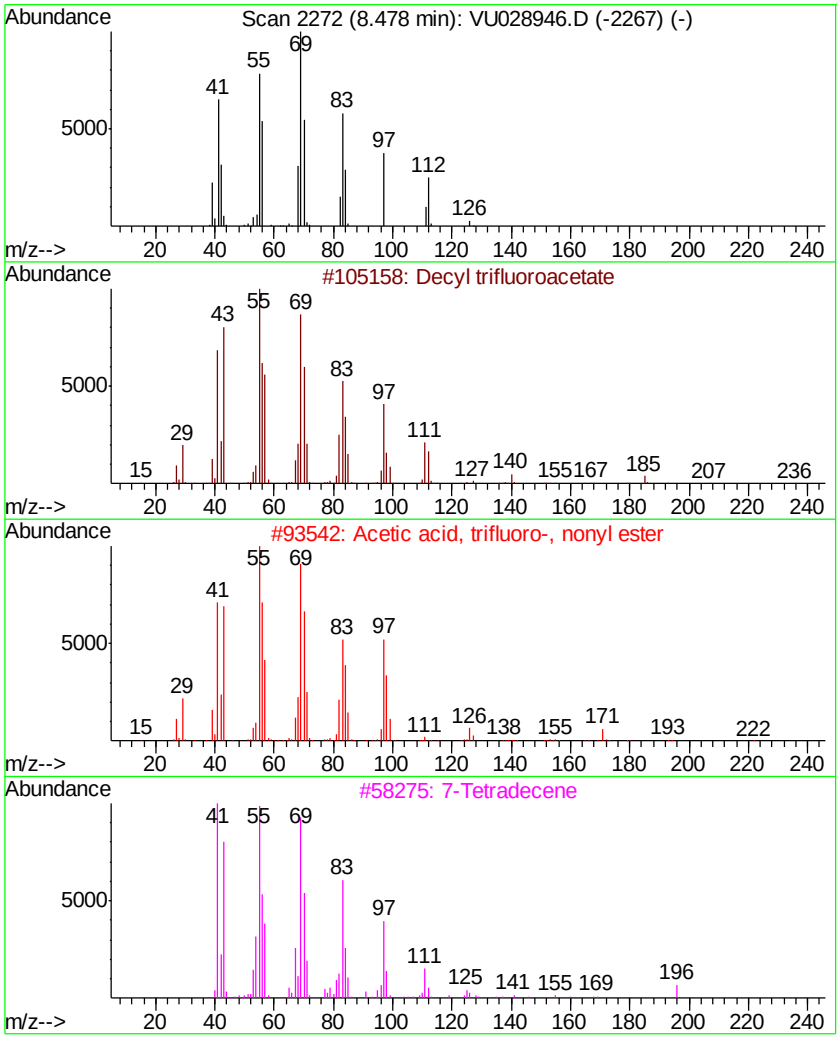
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

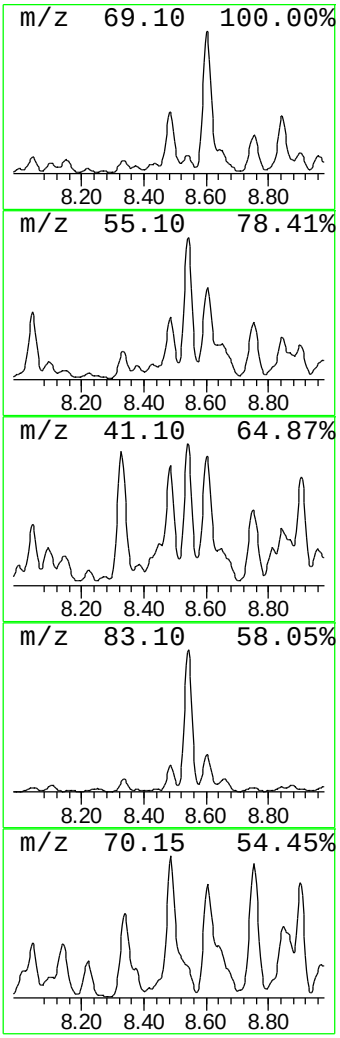
****

Peak Number 9 Decyl trifluoroacetate Concentration Rank 70

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.48	21.85 ug/L	284604	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decyl trifluoroacetate	254	C12H21F3O2	000333-88-0	78
2	Acetic acid, trifluoro-, nonyl e...	240	C11H19F3O2	030767-14-7	72
3	7-Tetradecene	196	C14H28	010374-74-0	72
4	1-Tetradecanol	214	C14H30O	000112-72-1	53
5	n-Tridecan-1-ol	200	C13H28O	000112-70-9	53





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Acq On : 24 Dec 2018 14:42
Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

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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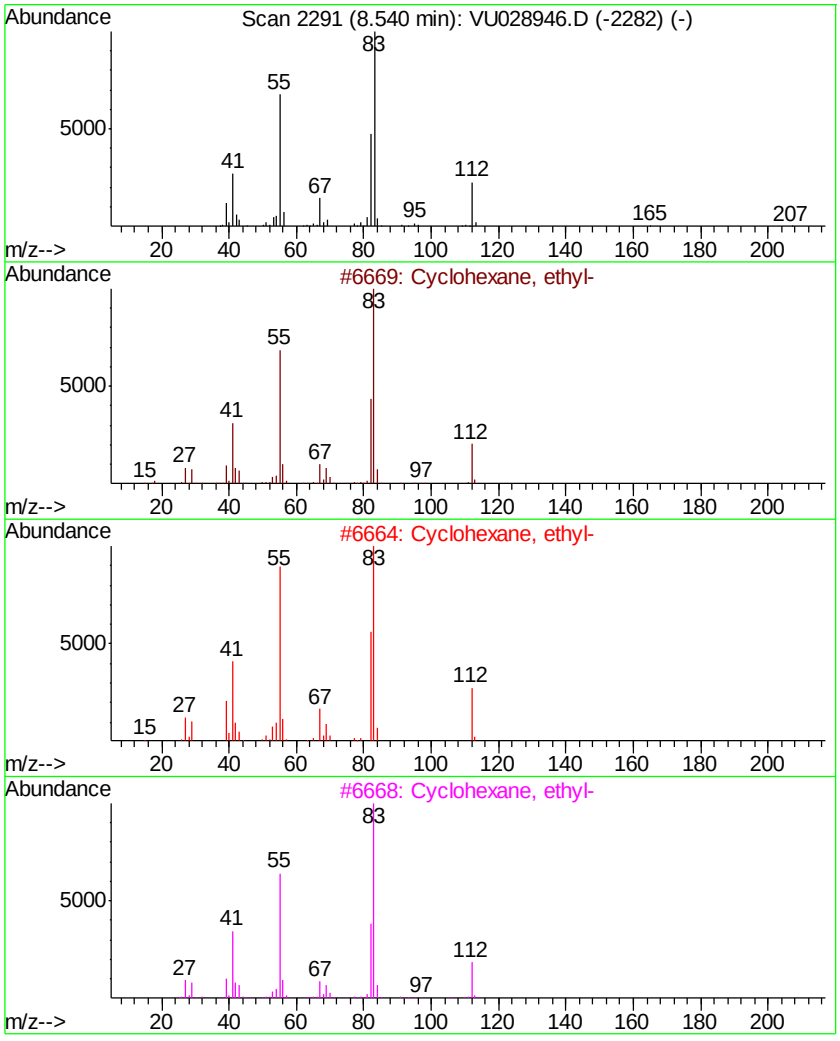
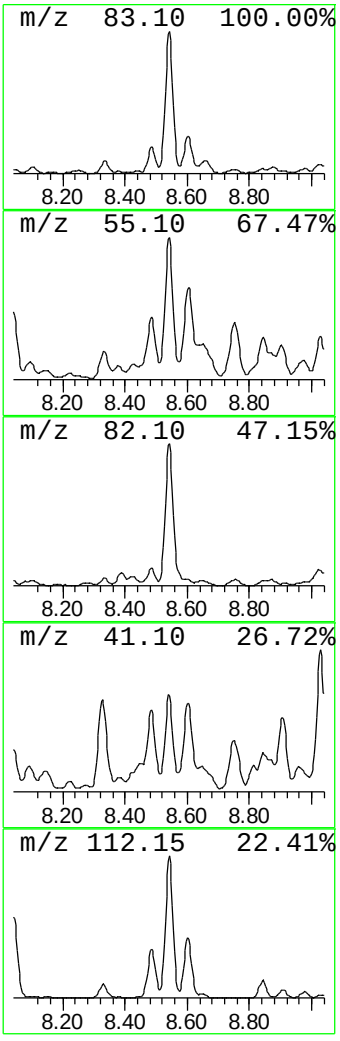
Peak Number 10 (DEL) Alkane: Cyclic8.54 Concentration Rank 40

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.54	33.75 ug/L	439548	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, ethyl-	112	C8H16	001678-91-7	90
2	Cyclohexane, ethyl-	112	C8H16	001678-91-7	87
3	Cyclohexane, ethyl-	112	C8H16	001678-91-7	86
4	Cyclohexane, ethyl-	112	C8H16	001678-91-7	72
5	2-Pentene, 3-ethyl-2-methyl-	112	C8H16	019780-67-7	58





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Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

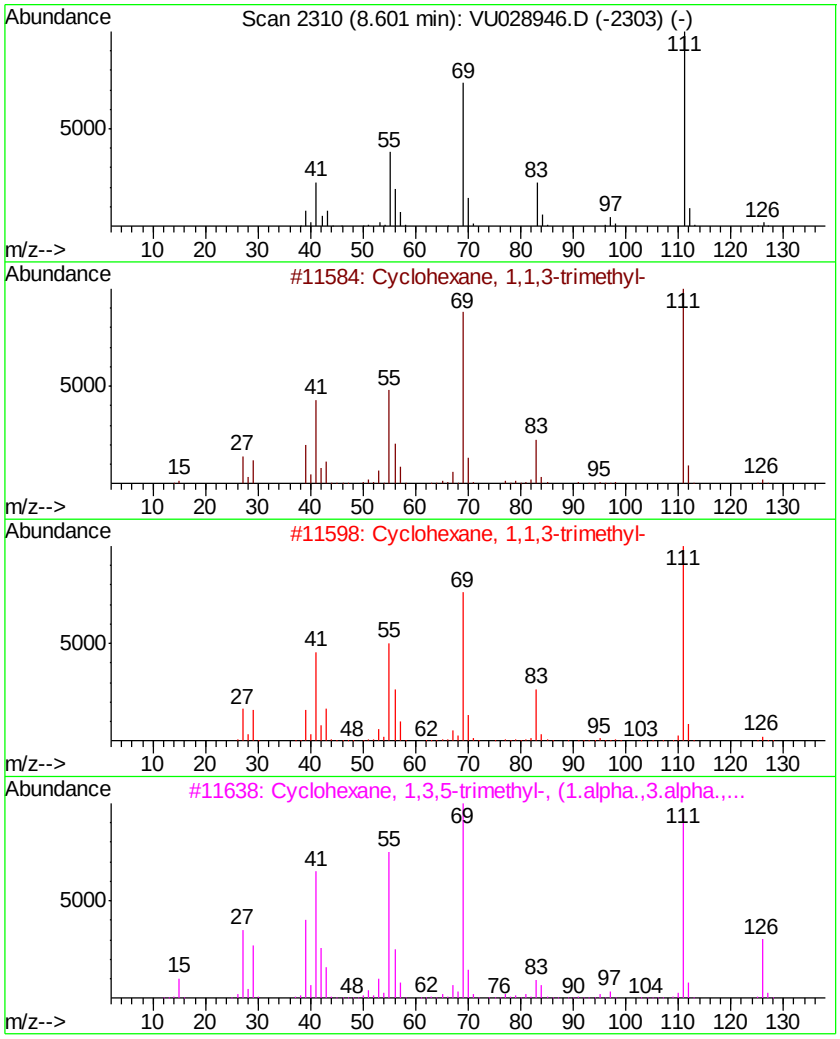
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

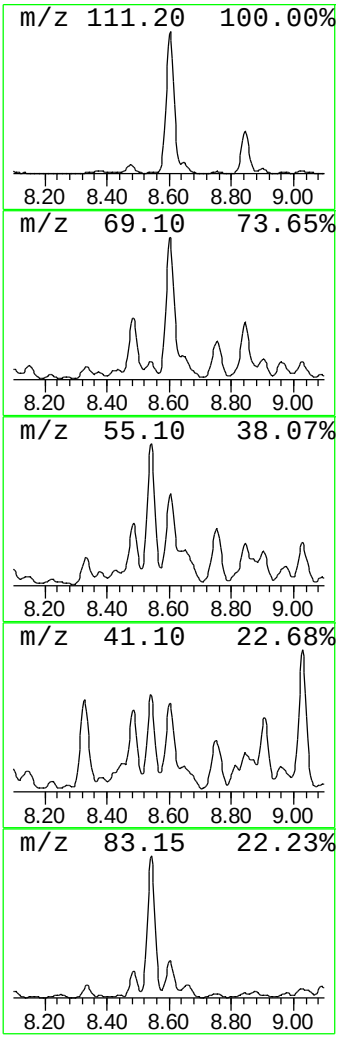
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 11 (DEL) Alkane: Cyclic8.60 Concentration Rank 43

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.60	32.41 ug/L	422086	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	91
2	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	91
3	Cyclohexane, 1,3,5-trimethyl-, (...	126	C9H18	001795-26-2	72
4	Cyclooctane, butyl-	168	C12H24	016538-93-5	72
5	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	62





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Acq On : 24 Dec 2018 14:42
Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

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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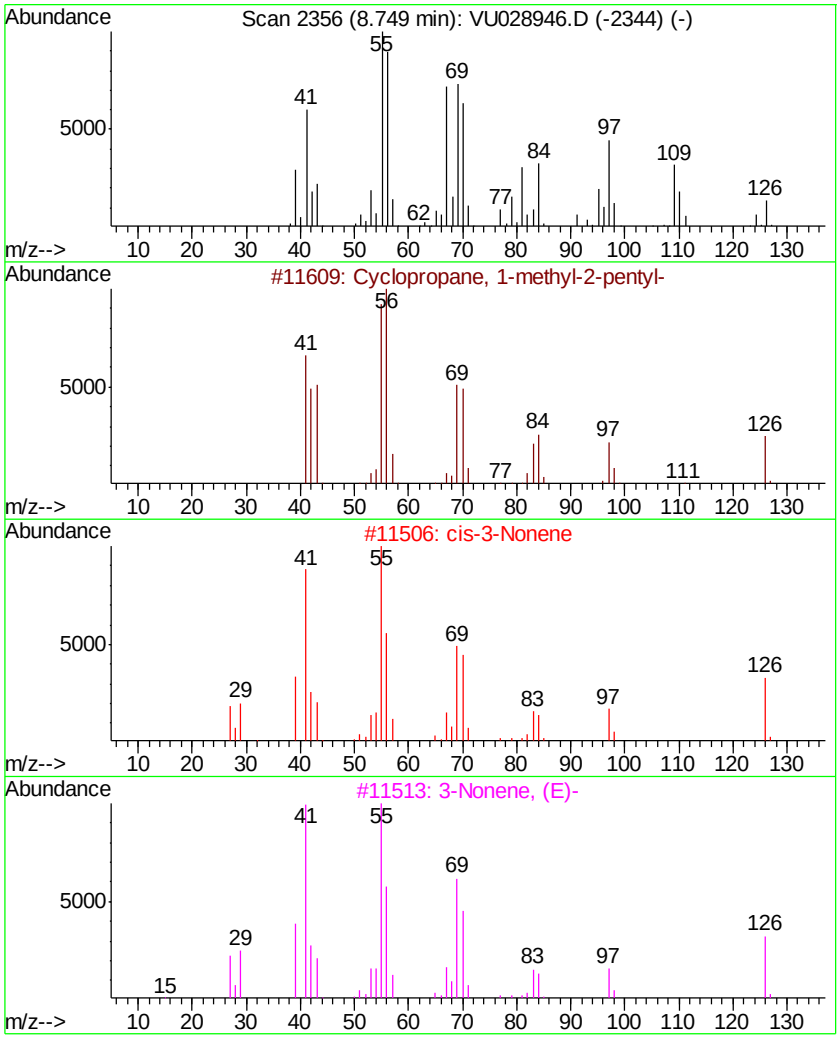
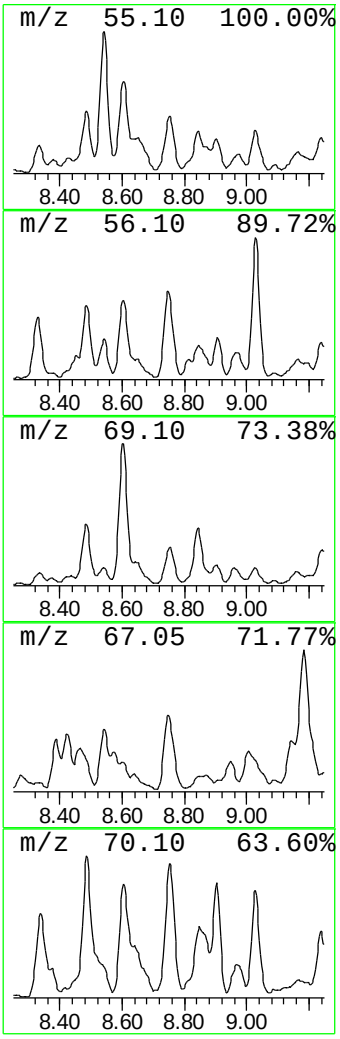
Peak Number 12 (DEL) Alkane: Cyclic8.75 Concentration Rank 42

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.75	32.45 ug/L	422575	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopropane, 1-methyl-2-pentyl-	126	C9H18	041977-37-1	64
2	cis-3-Nonene	126	C9H18	020237-46-1	58
3	3-Nonene, (E)-	126	C9H18	020063-92-7	52
4	3-Nonene	126	C9H18	020063-77-8	49
5	trans-7-Methyl-3-octene	126	C9H18	1000113-52-8	43





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Acq On : 24 Dec 2018 14:42
Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

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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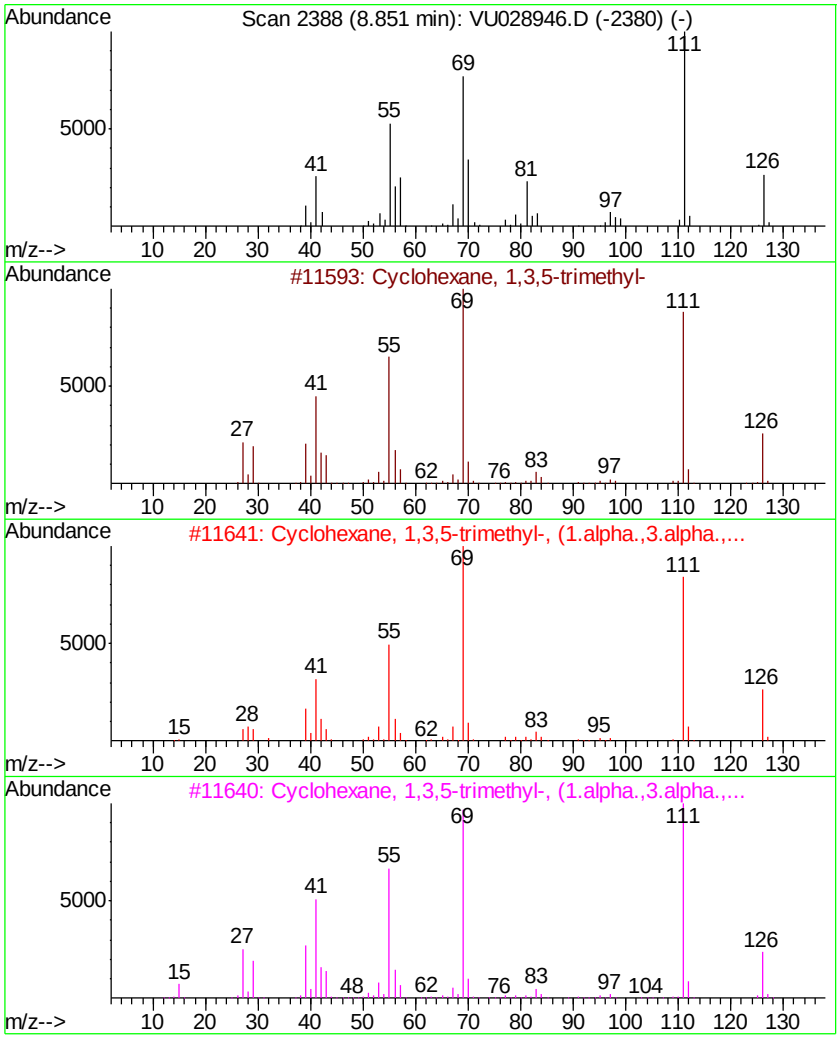
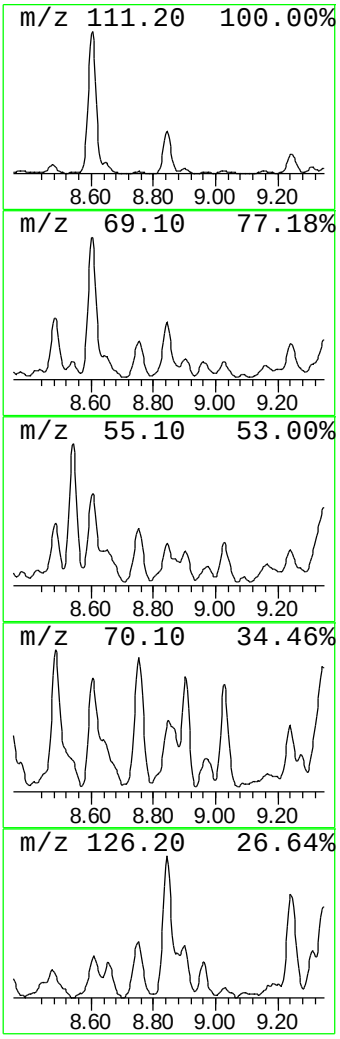
Peak Number 13 (DEL) Alkane: Cyclic8.85 Concentration Rank 73

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.85	20.99 ug/L	273362	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3,5-trimethyl-	126	C9H18	001839-63-0	87
2	Cyclohexane, 1,3,5-trimethyl-, (...	126	C9H18	001795-27-3	86
3	Cyclohexane, 1,3,5-trimethyl-, (...	126	C9H18	001795-27-3	80
4	2-Pyrazoline, 1-isopropyl-5-methyl-	126	C7H14N2	026964-54-5	72
5	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	72





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Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

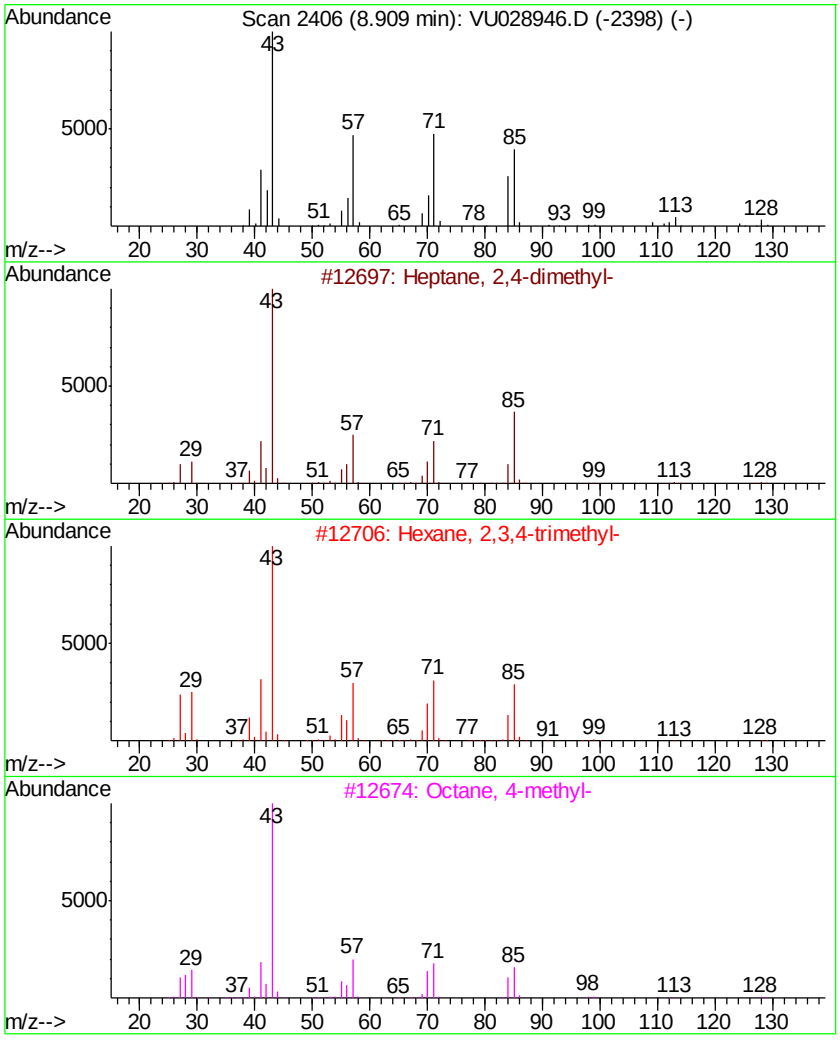
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

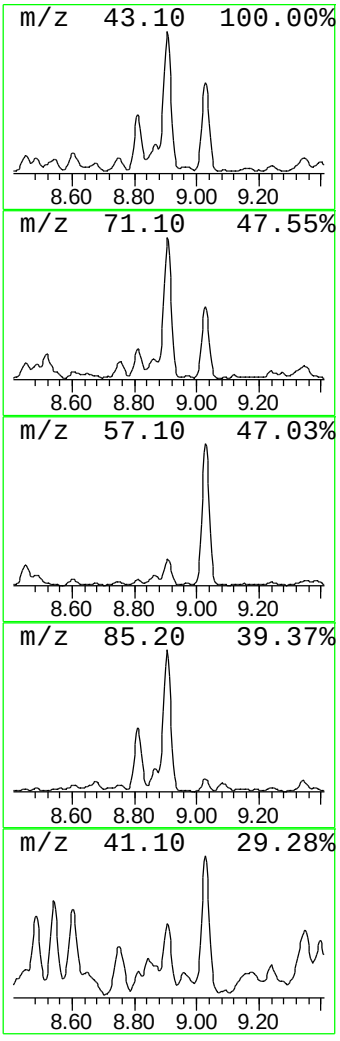
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 14 (DEL) Alkane: Straight-Chai... Concentration Rank 59

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.91	25.21 ug/L	328372	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	72
2	Hexane, 2,3,4-trimethyl-	128	C9H20	000921-47-1	64
3	Octane, 4-methyl-	128	C9H20	002216-34-4	64
4	Hexane, 3,3-dimethyl-	114	C8H18	000563-16-6	64
5	Hexane, 2,3,5-trimethyl-	128	C9H20	001069-53-0	59





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Acq On : 24 Dec 2018 14:42
Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

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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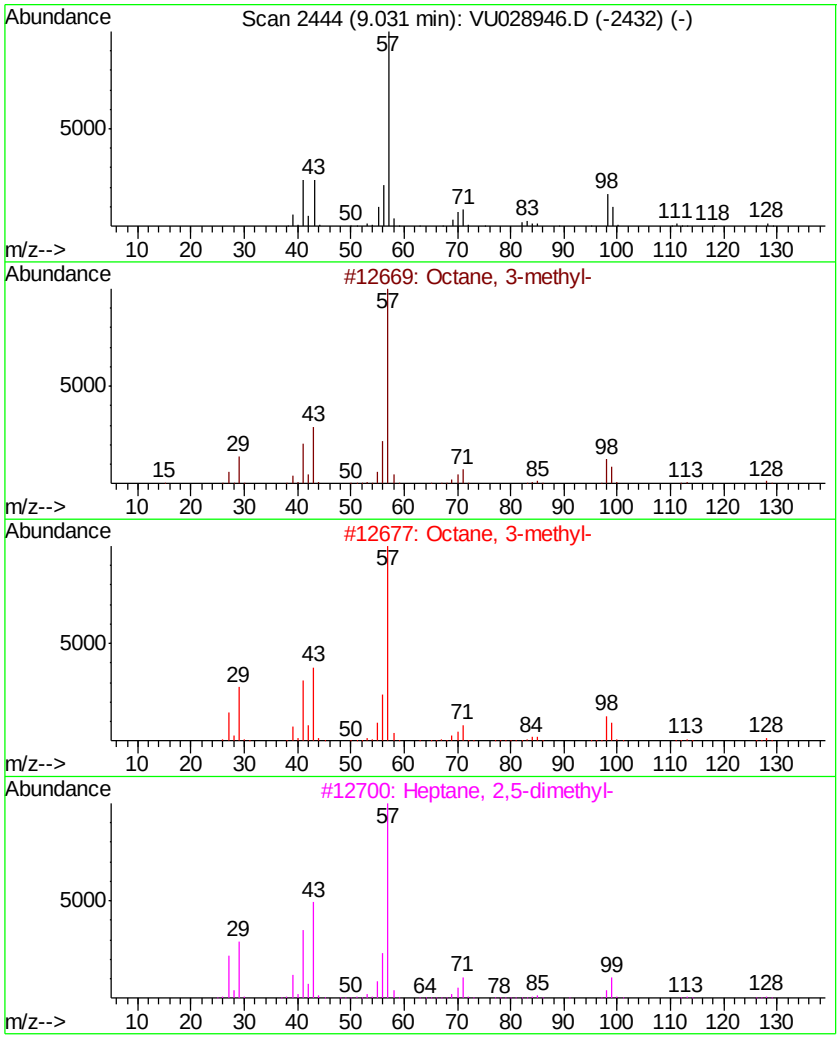
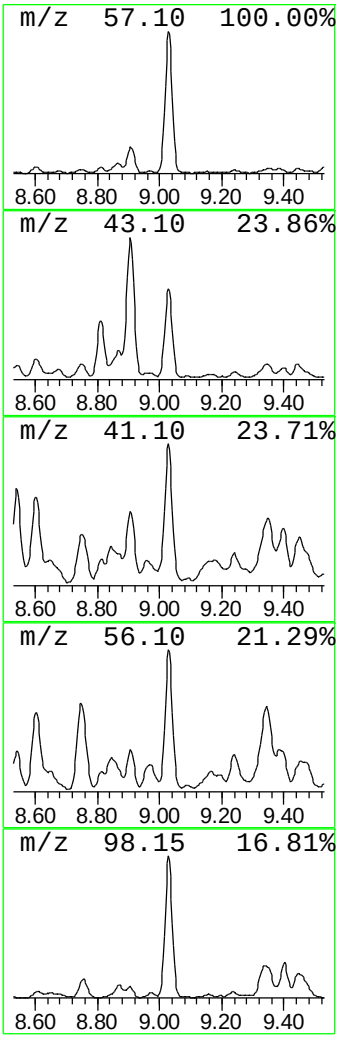
Peak Number 15 (DEL) Alkane: Straight-Chai... Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.03	47.32 ug/L	616323	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 3-methyl-	128	C9H20	002216-33-3	90
2	Octane, 3-methyl-	128	C9H20	002216-33-3	87
3	Heptane, 2,5-dimethyl-	128	C9H20	002216-30-0	80
4	Heptane, 2,5-dimethyl-	128	C9H20	002216-30-0	72
5	Octane, 3-methyl-	128	C9H20	002216-33-3	68





Library Search Compound Report

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Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

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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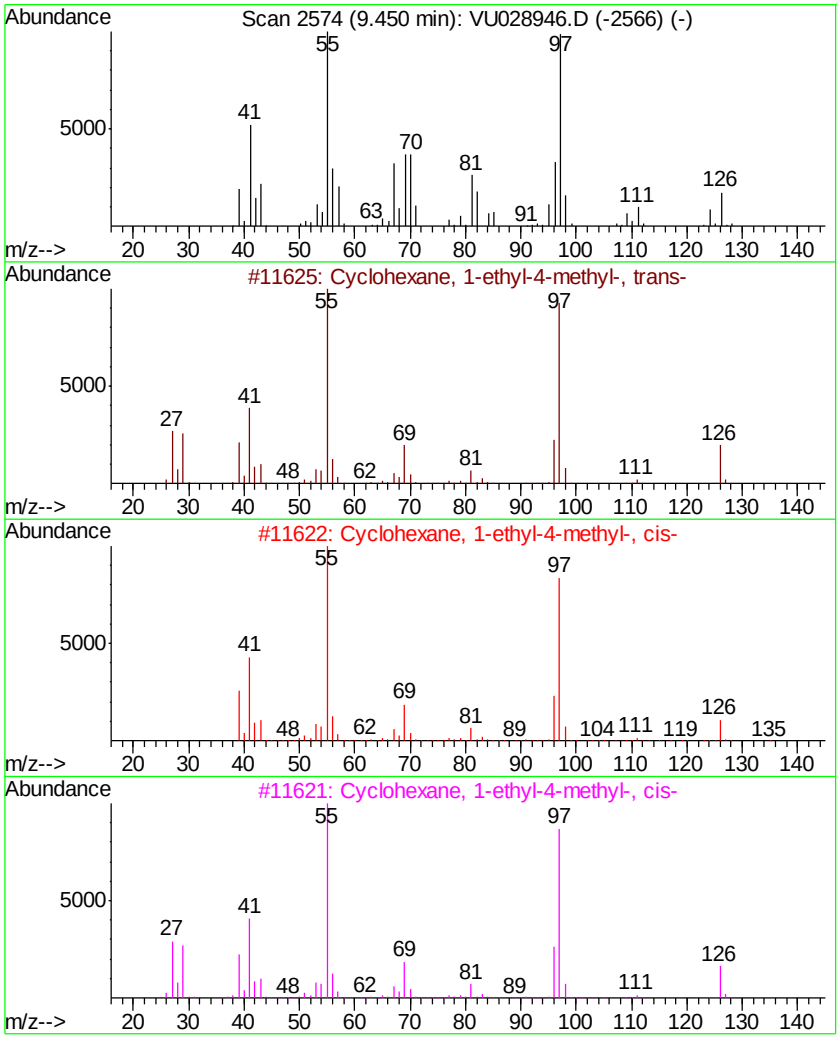
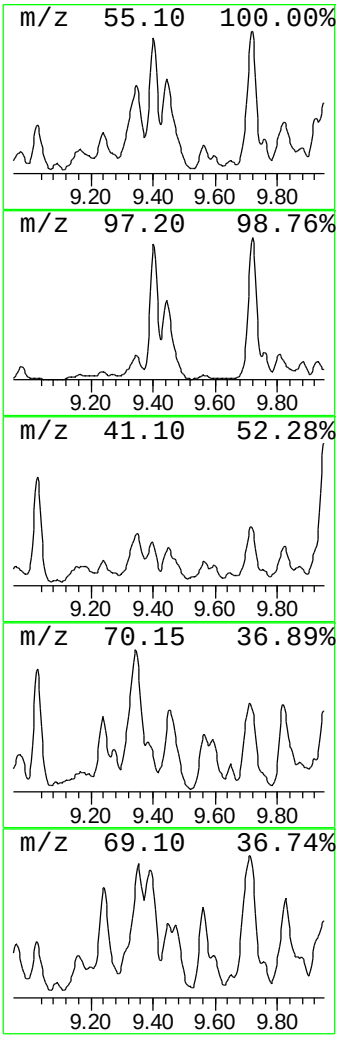
Peak Number 16 (DEL) Alkane: Cyclic9.45 Concentration Rank 50

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.45	29.52 ug/L	384517	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1-ethyl-4-methyl-, ...	126	C9H18	006236-88-0	64
2	Cyclohexane, 1-ethyl-4-methyl-, ...	126	C9H18	004926-78-7	59
3	Cyclohexane, 1-ethyl-4-methyl-, ...	126	C9H18	004926-78-7	58
4	cis-1-Ethyl-3-methylcyclohexane	126	C9H18	019489-10-2	53
5	Cyclopentane, 1,1'-ethylidenebis-	166	C12H22	004413-21-2	50





Library Search Compound Report

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Data File : VU028946.D
Acq On : 24 Dec 2018 14:42
Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

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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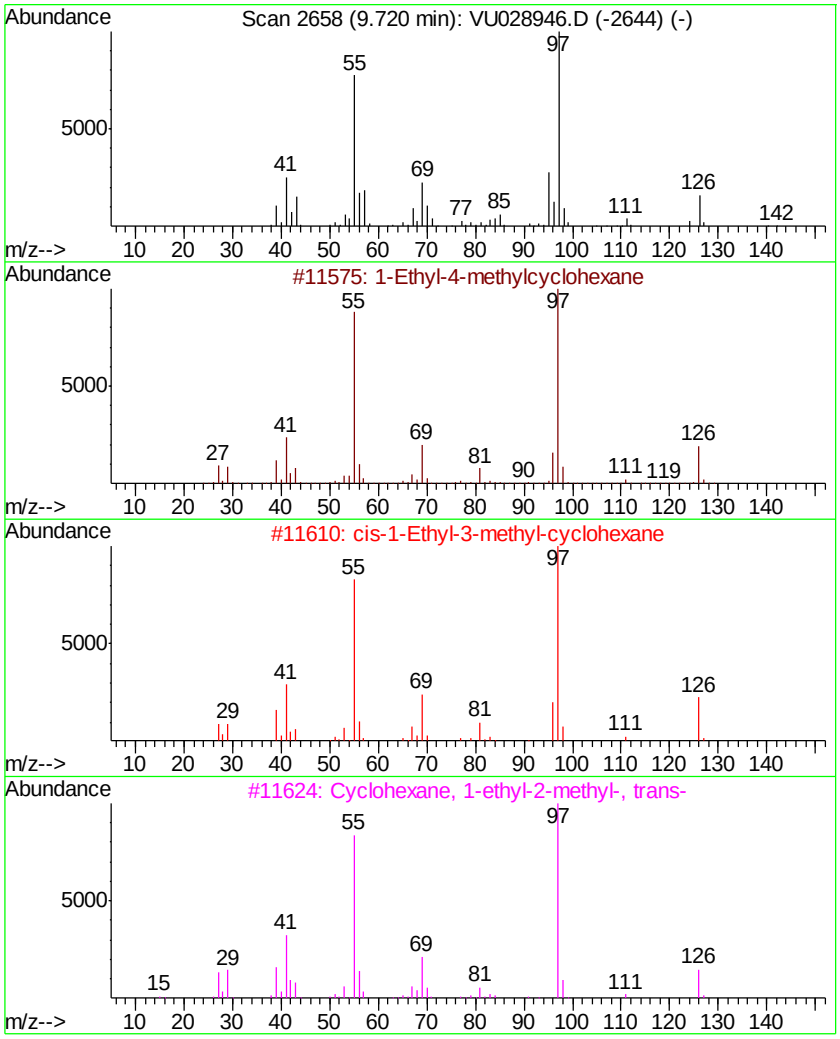
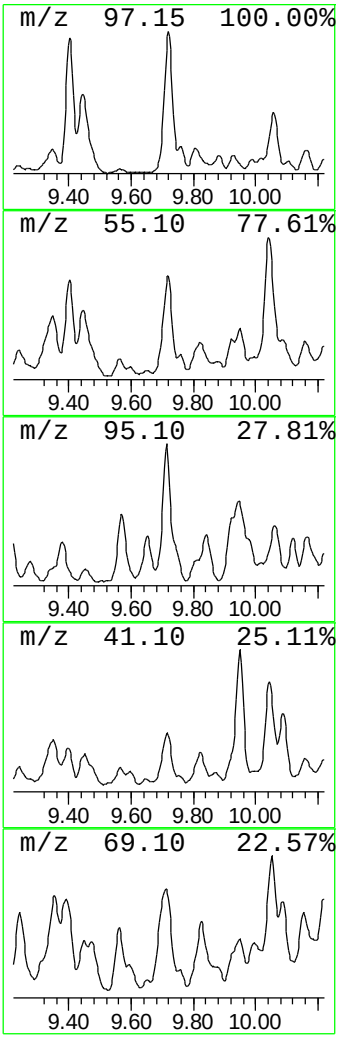
Peak Number 17 (DEL) Alkane: Cyclic9.72 Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.72	44.45 ug/L	578886	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Ethyl-4-methylcyclohexane	126	C9H18	003728-56-1	76
2	cis-1-Ethyl-3-methyl-cyclohexane	126	C9H18	019489-10-2	76
3	Cyclohexane, 1-ethyl-2-methyl-, ...	126	C9H18	004923-78-8	68
4	1-Ethyl-3-methylcyclohexane (c,t)	126	C9H18	003728-55-0	64
5	3,5-Dimethyl-3-heptene	126	C9H18	059643-68-4	64





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU122418\
Data File : VU028946.D
Acq On : 24 Dec 2018 14:42
Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

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

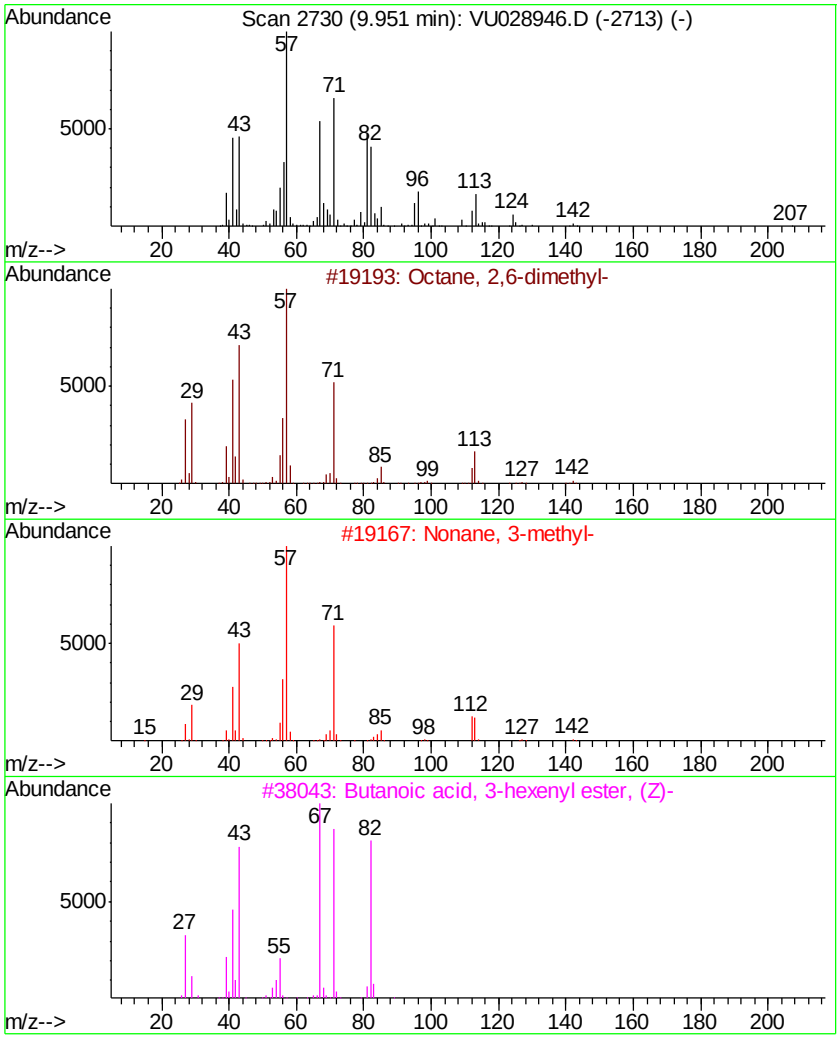
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

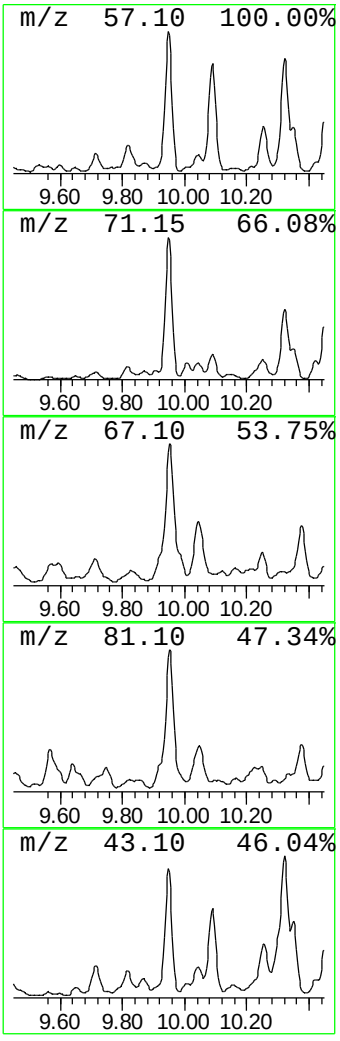
****

Peak Number 18 (DEL) Alkane: Straight-Chai... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.95	94.87 ug/L	1235590	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	46
2	Nonane, 3-methyl-	142	C10H22	005911-04-6	46
3	Butanoic acid, 3-hexenyl ester, ...	170	C10H18O2	016491-36-4	43
4	Nonane, 3-methyl-	142	C10H22	005911-04-6	41
5	2-Hexen-1-ol, (Z)-	100	C6H12O	000928-94-9	38





Library Search Compound Report

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Data File : VU028946.D
Acq On : 24 Dec 2018 14:42
Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

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

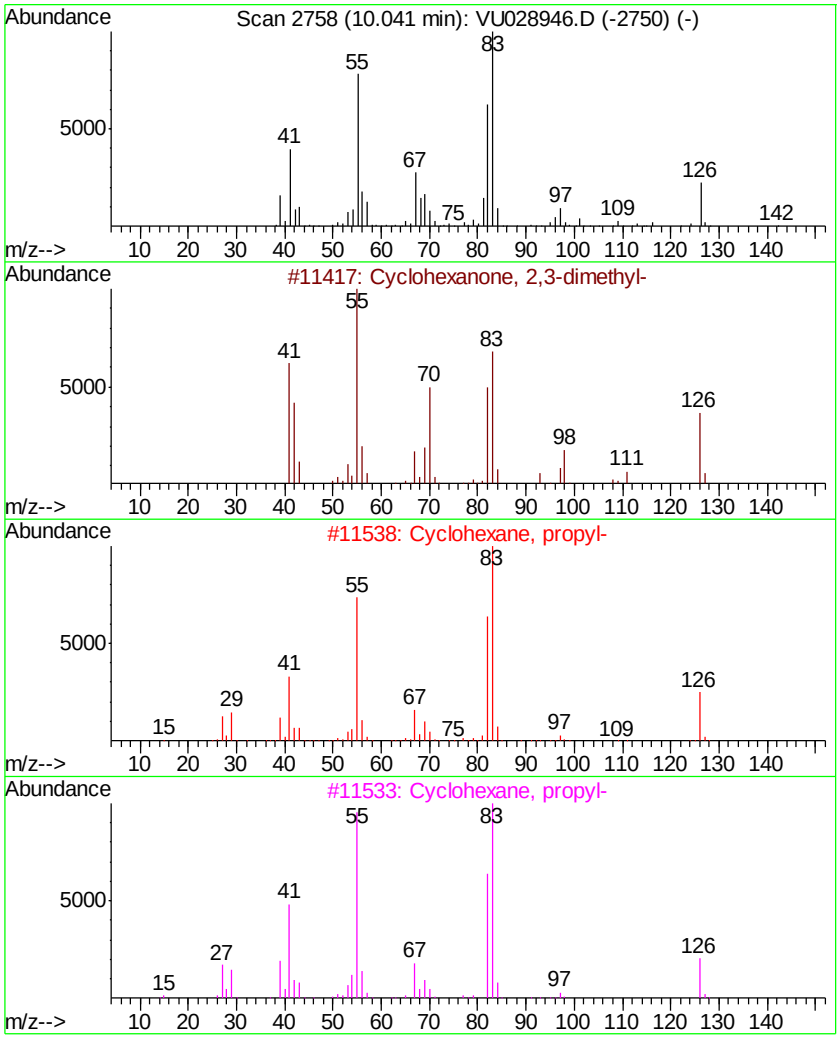
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

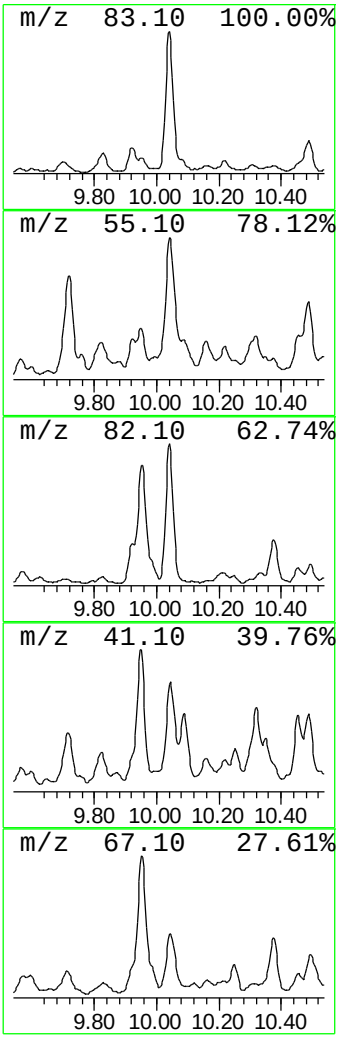
****

Peak Number 19 Cyclohexanone, 2,3-dimethyl- Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.04	54.56 ug/L	710550	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexanone, 2,3-dimethyl-	126	C8H14O	013395-76-1	87
2	Cyclohexane, propyl-	126	C9H18	001678-92-8	74
3	Cyclohexane, propyl-	126	C9H18	001678-92-8	72
4	Cyclohexane, propyl-	126	C9H18	001678-92-8	72
5	Cyclohexane, propyl-	126	C9H18	001678-92-8	72





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Acq On : 24 Dec 2018 14:42
Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

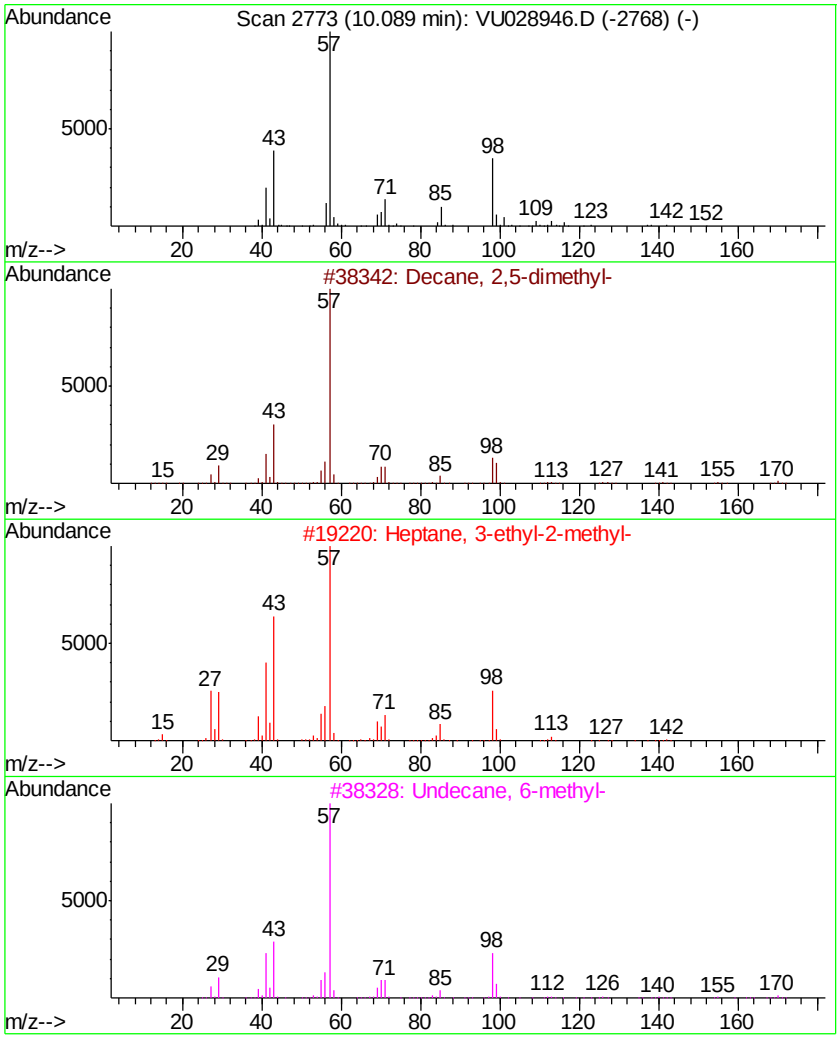
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

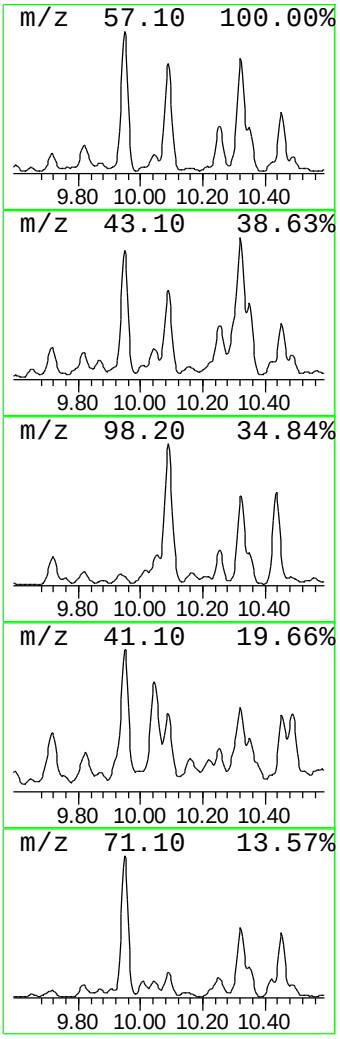
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 20 (DEL) Alkane: Straight-Chai... Concentration Rank 44

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.09	31.75 ug/L	413515	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane, 2,5-dimethyl-	170	C12H26	017312-50-4	64
2	Heptane, 3-ethyl-2-methyl-	142	C10H22	014676-29-0	64
3	Undecane, 6-methyl-	170	C12H26	017302-33-9	50
4	Heptane, 2,3,5-trimethyl-	142	C10H22	020278-85-7	47
5	Heptane, 3-ethyl-2-methyl-	142	C10H22	014676-29-0	45





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Acq On : 24 Dec 2018 14:42
Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

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

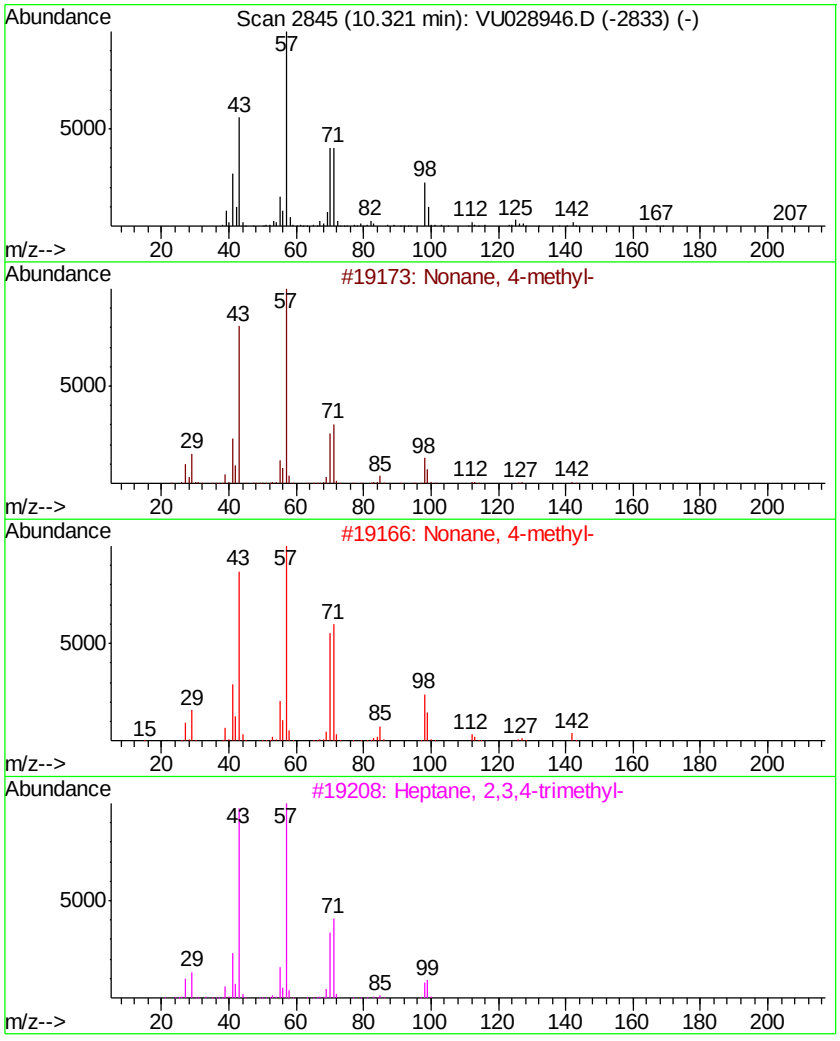
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

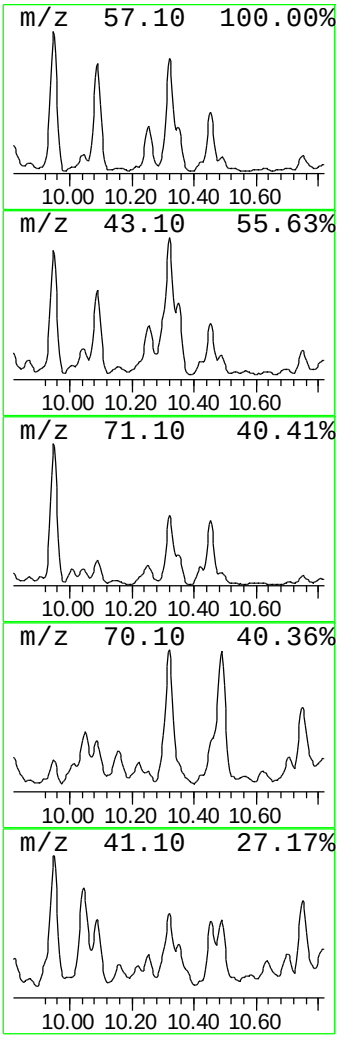
****

Peak Number 21 (DEL) Alkane: Straight-Chai... Concentration Rank 55

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.32	28.42 ug/L	546140	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonane, 4-methyl-	142	C10H22	017301-94-9	91
2	Nonane, 4-methyl-	142	C10H22	017301-94-9	72
3	Heptane, 2,3,4-trimethyl-	142	C10H22	052896-95-4	64
4	Nonane, 4-methyl-	142	C10H22	017301-94-9	59
5	Undecane, 4,5-dimethyl-	184	C13H28	017312-79-7	59





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Acq On : 24 Dec 2018 14:42
Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

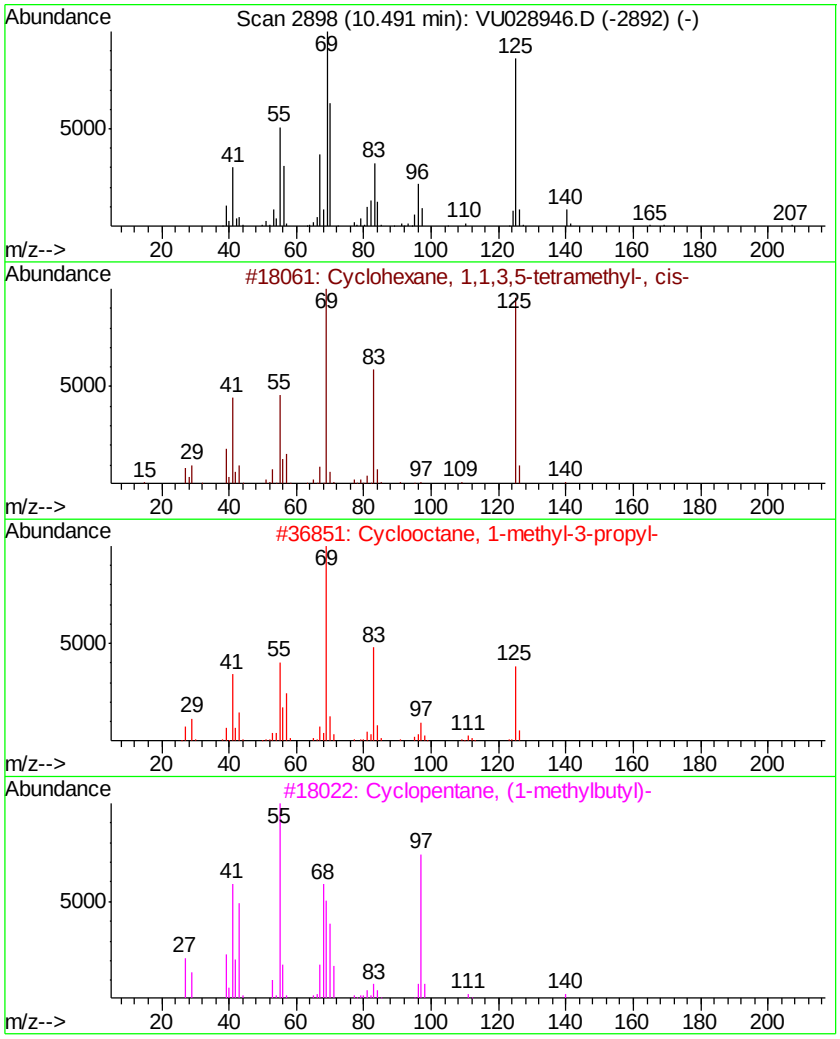
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

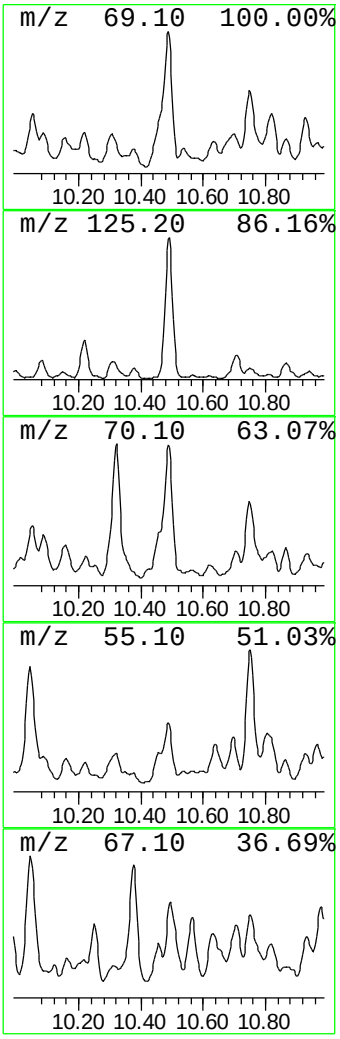
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 22 (DEL) Alkane: Cyclic10.49 Concentration Rank 65

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.49	23.27 ug/L	447275	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,1,3,5-tetramethyl...	140	C10H20	050876-32-9	53
2	Cyclooctane, 1-methyl-3-propyl-	168	C12H24	255885-37-1	53
3	Cyclopentane, (1-methylbutyl)-	140	C10H20	004737-43-3	47
4	2-Octene, 2,6-dimethyl-	140	C10H20	004057-42-5	43
5	2,6-Dimethyl-6-trifluoroacetoxyo...	254	C12H21F3O2	061986-67-2	43





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU122418\
Data File : VU028946.D
Acq On : 24 Dec 2018 14:42
Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

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

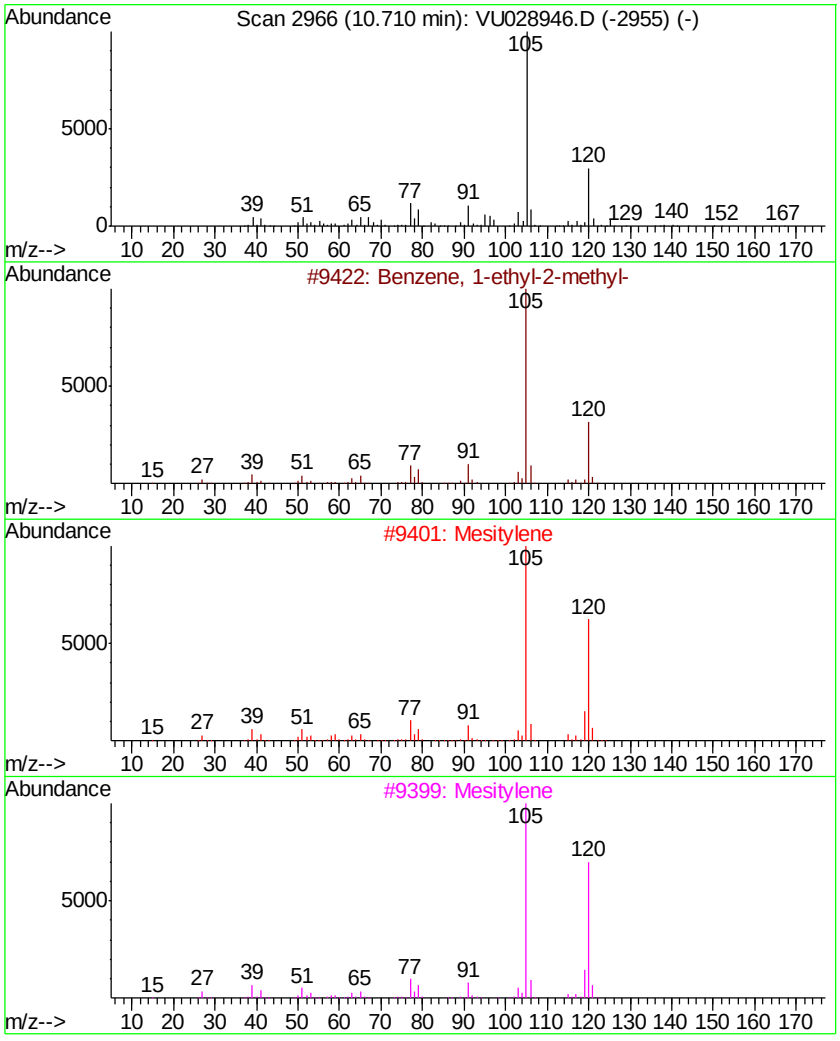
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

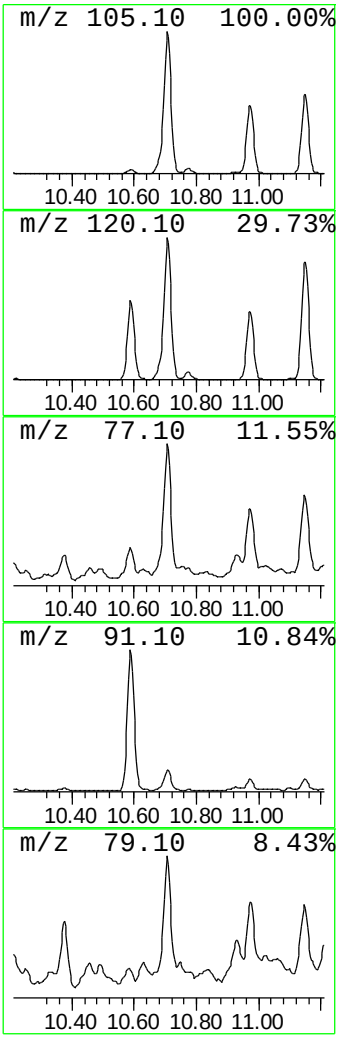
****

Peak Number 23 Benzene, 1-ethyl-2-methyl- Concentration Rank 38

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.71	34.61 ug/L	665164	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	Mesitylene	120	C9H12	000108-67-8	81
3	Mesitylene	120	C9H12	000108-67-8	81
4	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	81
5	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	81





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Acq On : 24 Dec 2018 14:42
Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

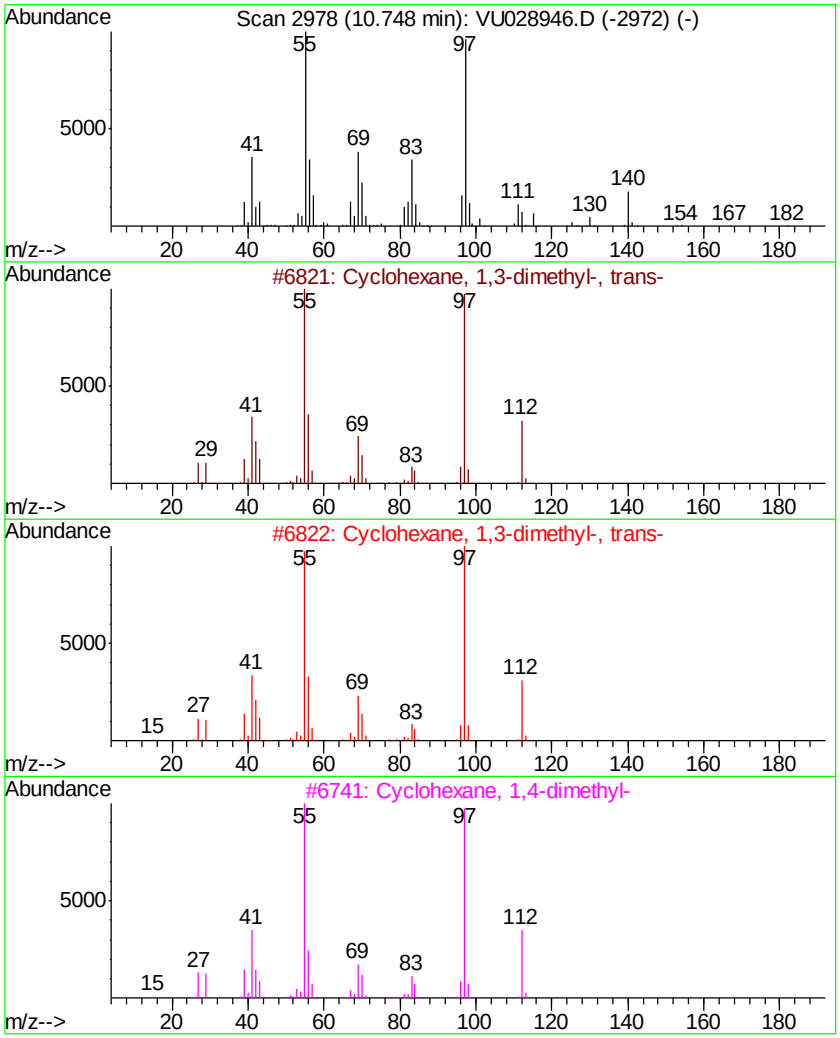
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

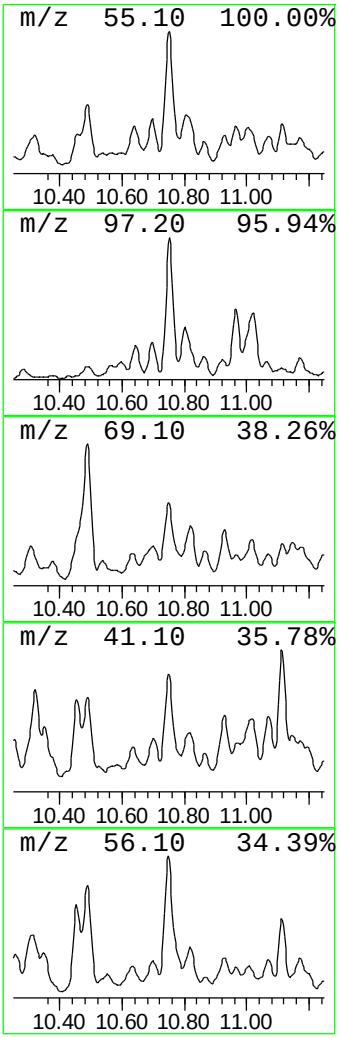
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 24 (DEL) Alkane: Cyclic10.75 Concentration Rank 49

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.75	30.29 ug/L	582030	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	87
3	Cyclohexane, 1,4-dimethyl-	112	C8H16	000589-90-2	80
4	Cyclohexane, 1,4-dimethyl-, trans-	112	C8H16	002207-04-7	64
5	3-Hexene, 3-ethyl-2,5-dimethyl-	140	C10H20	062338-08-3	58





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Data File : VU028946.D
Acq On : 24 Dec 2018 14:42
Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

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

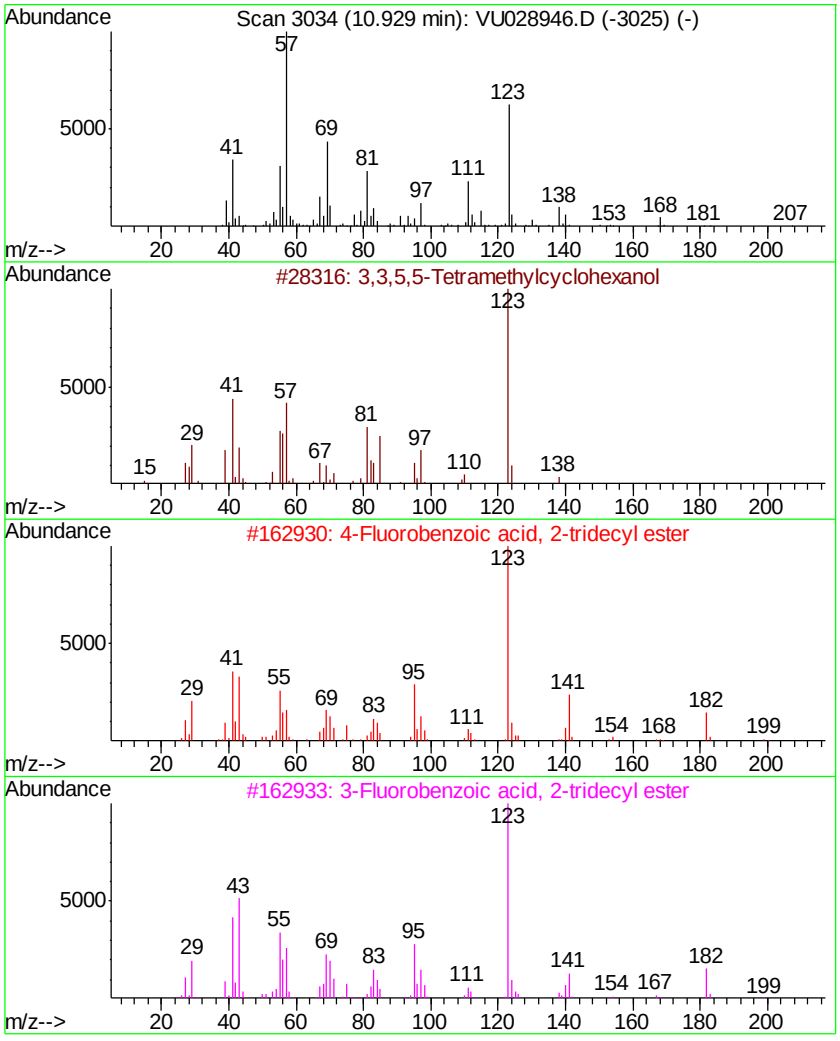
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

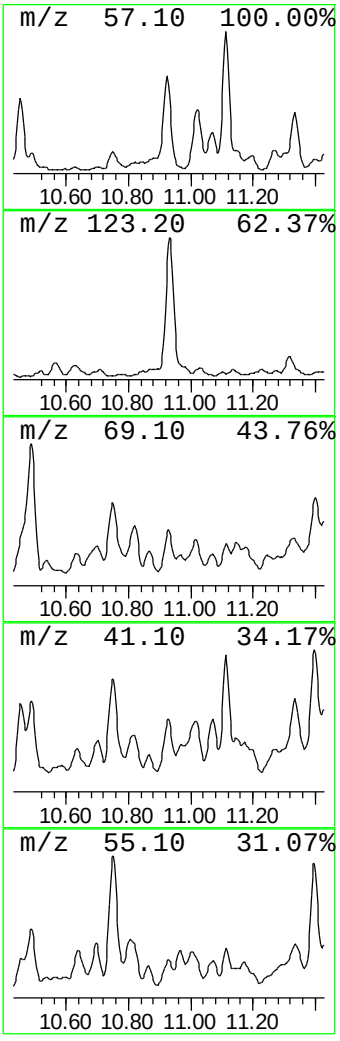
****

Peak Number 25 unknown-01 Concentration Rank 76

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.93	20.26 ug/L	389377	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	38
2	4-Fluorobenzoic acid, 2-tridecyl...	322	C20H31FO2	1000280-67-8	38
3	3-Fluorobenzoic acid, 2-tridecyl...	322	C20H31FO2	1000280-60-2	38
4	3-Fluorobenzoic acid, 3-tetradec...	336	C21H33FO2	1000280-60-5	32
5	Bicyclo[3.3.1]nonane-1-carboxyli...	168	C10H16O2	017530-63-1	30





Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU122418\
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Acq On : 24 Dec 2018 14:42
Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

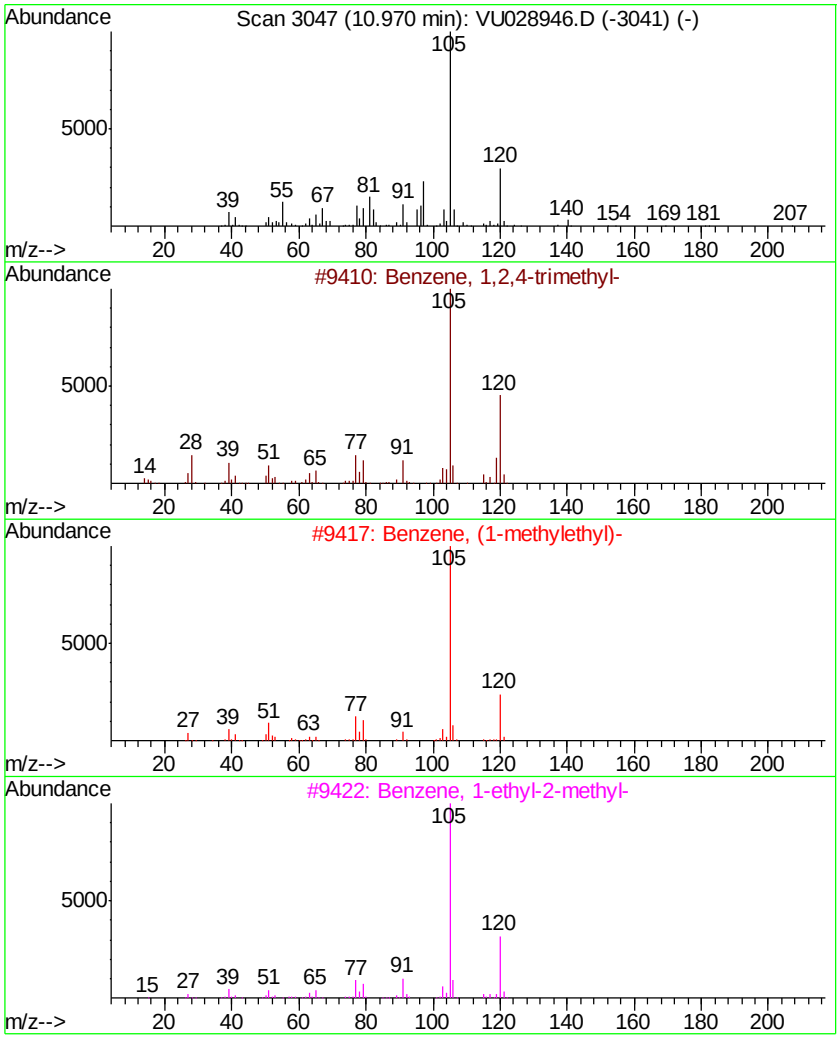
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

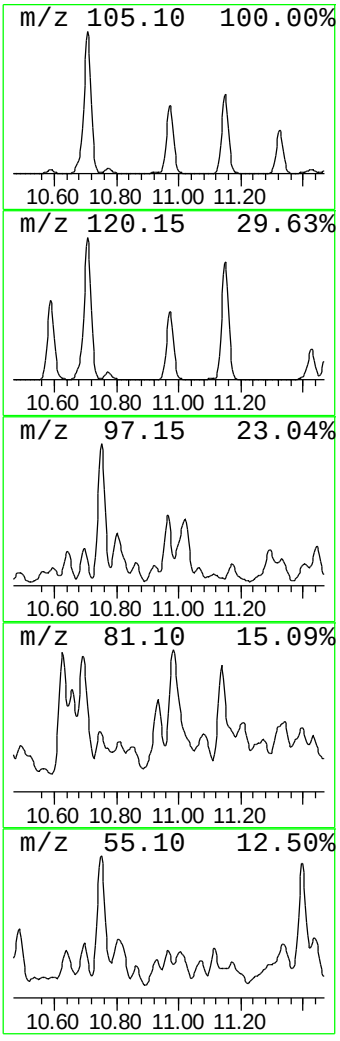
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 26 Benzene, 1,2,4-trimethyl- Concentration Rank 79

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.97	17.23 ug/L	331091	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	60
2	Benzene, (1-methylethyl)-	120	C9H12	000098-82-8	60
3	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	60
4	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	60
5	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	60





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Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

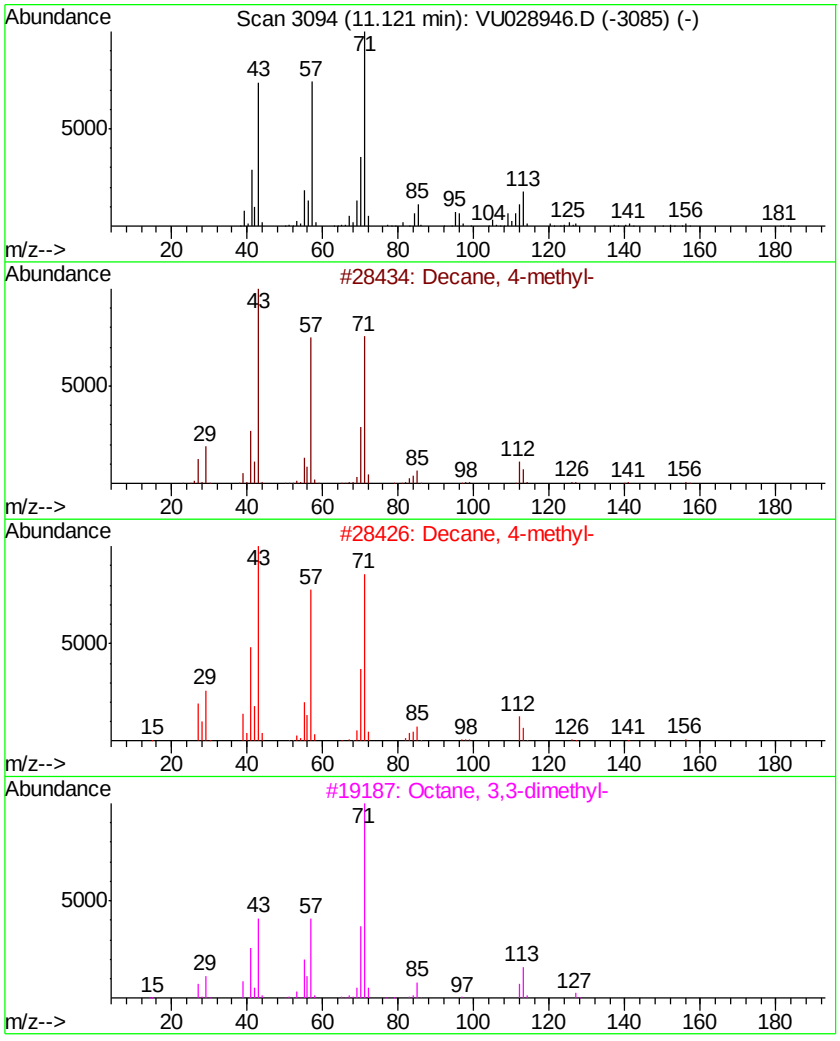
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

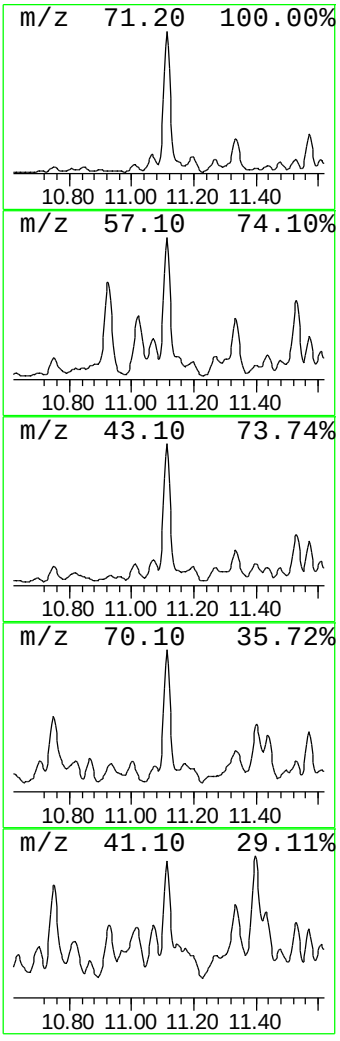
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 27 (DEL) Alkane: Straight-Chai... Concentration Rank 52

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.12	28.86 ug/L	554716	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	Decane, 4-methyl-	156	C11H24	002847-72-5	80
3	Octane, 3,3-dimethyl-	142	C10H22	004110-44-5	72
4	Sulfurous acid, isobutyl 2-penty...	208	C9H20O3S	1000309-15-2	64
5	Octane, 3,3-dimethyl-	142	C10H22	004110-44-5	59





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Acq On : 24 Dec 2018 14:42
Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

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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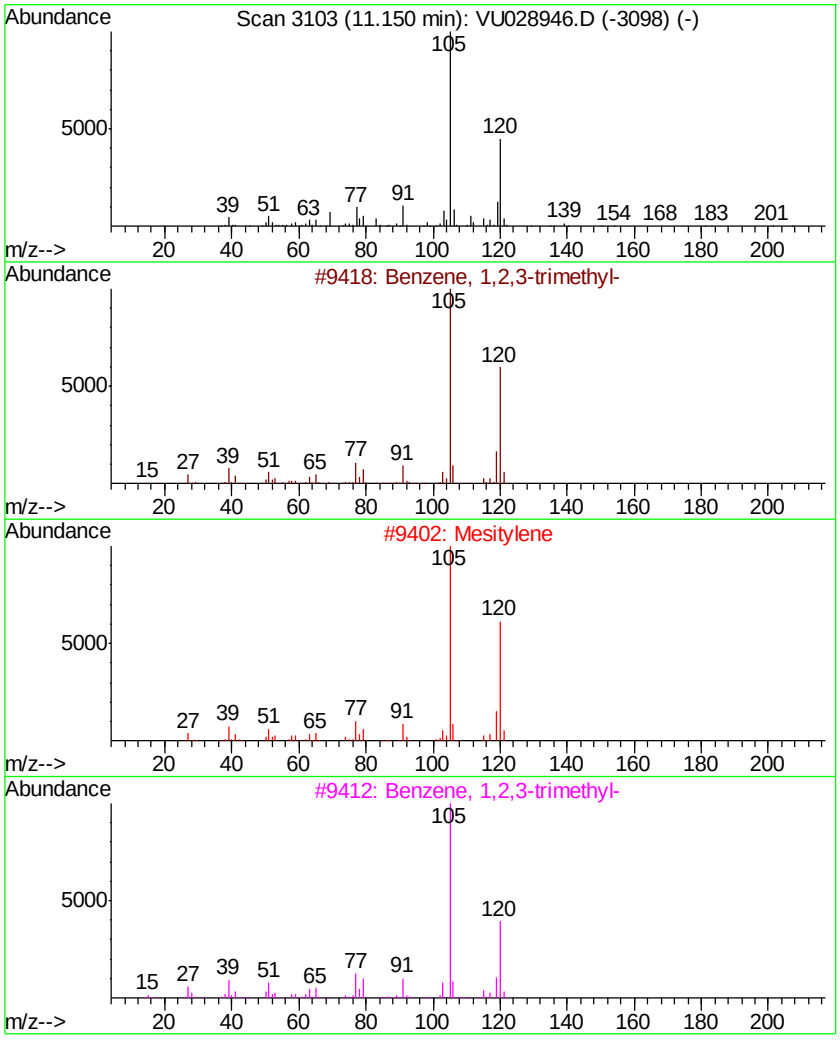
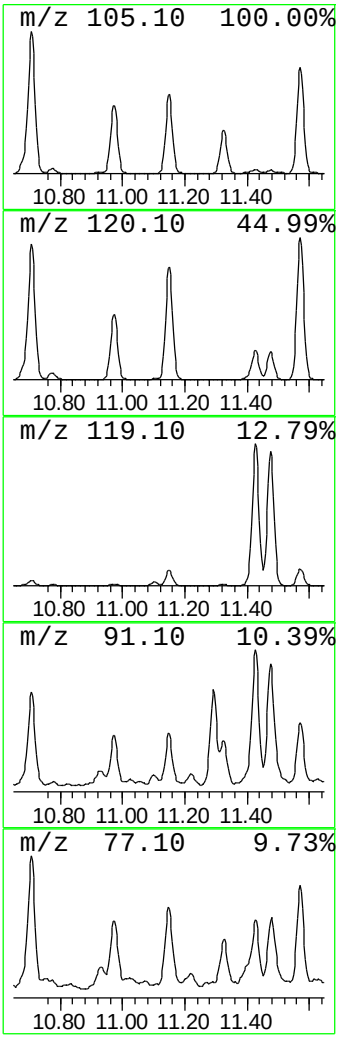
Peak Number 28 Benzene, 1,2,3-trimethyl- Concentration Rank 75

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.15	20.56 ug/L	395175	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	95
2	Mesitylene	120	C9H12	000108-67-8	94
3	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	93
4	Mesitylene	120	C9H12	000108-67-8	93
5	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	90





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU122418\
Data File : VU028946.D
Acq On : 24 Dec 2018 14:42
Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

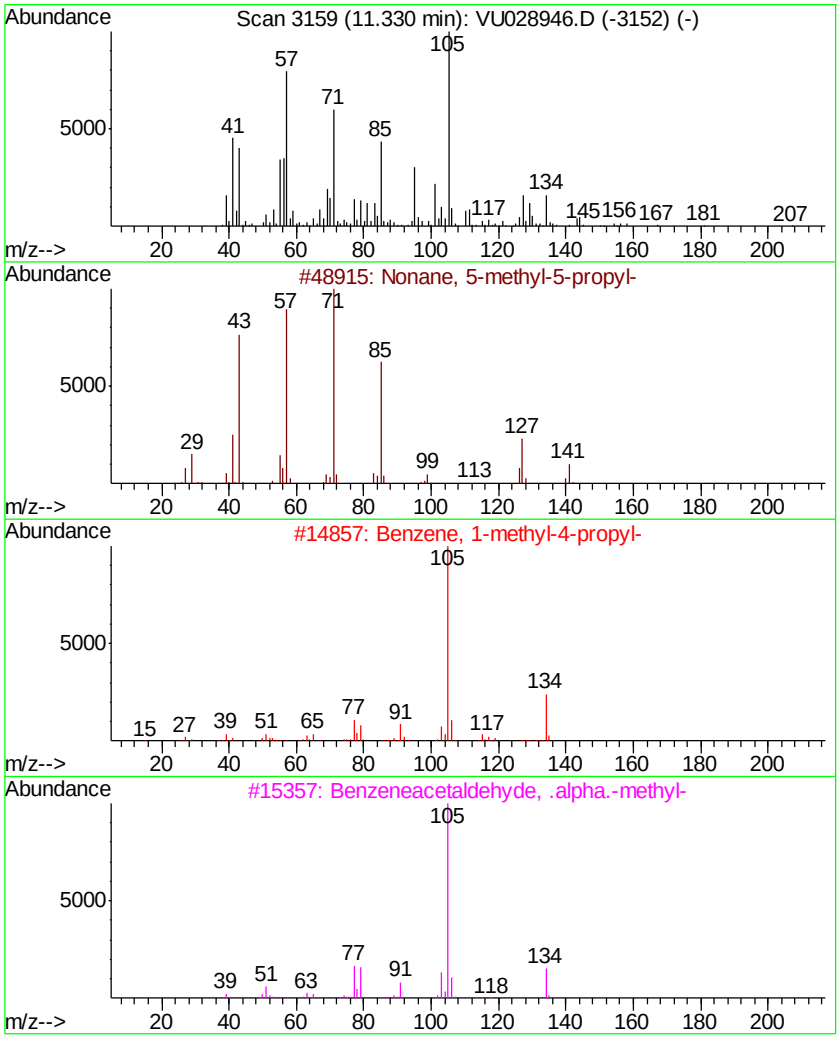
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

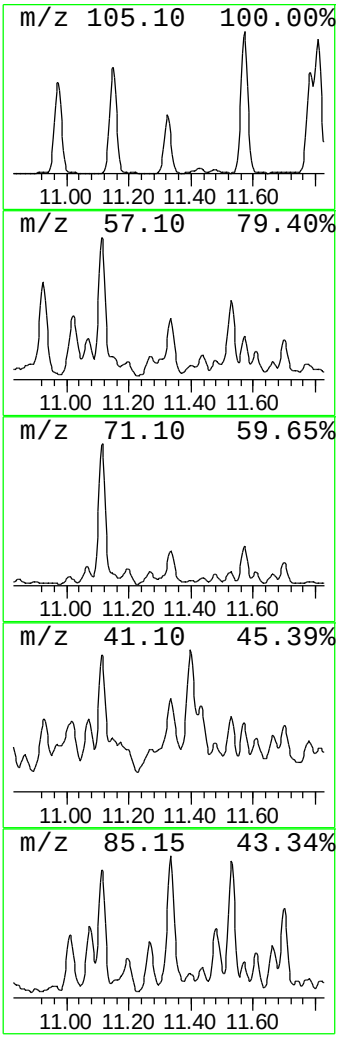
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 29 (DEL) Alkane: Straight-Chai... Concentration Rank 64

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.33	23.78 ug/L	457071	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonane, 5-methyl-5-propyl-	184	C13H28	017312-75-3	35
2	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	25
3	Benzeneacetaldehyde, .alpha.-met...	134	C9H10O	000093-53-8	25
4	Oxirane, 2-methyl-2-phenyl-	134	C9H10O	002085-88-3	15
5	Benzeneacetaldehyde, .alpha.-met...	134	C9H10O	000093-53-8	15





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Data File : VU028946.D
Acq On : 24 Dec 2018 14:42
Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

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

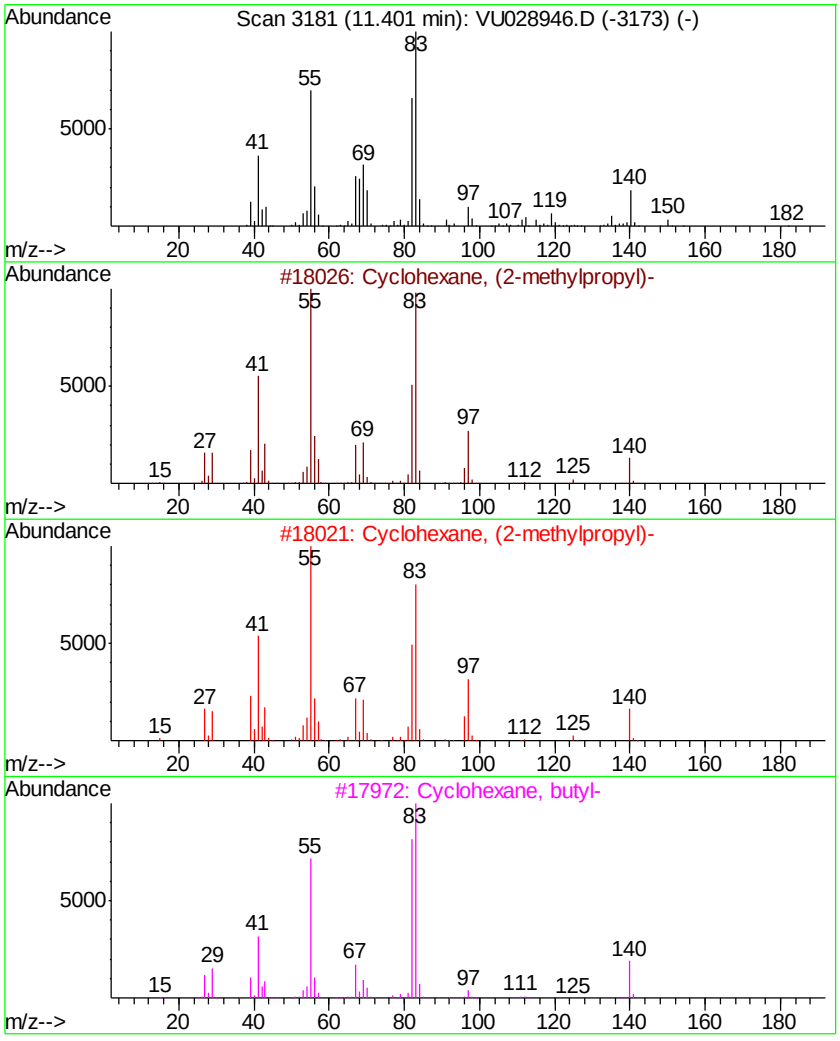
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

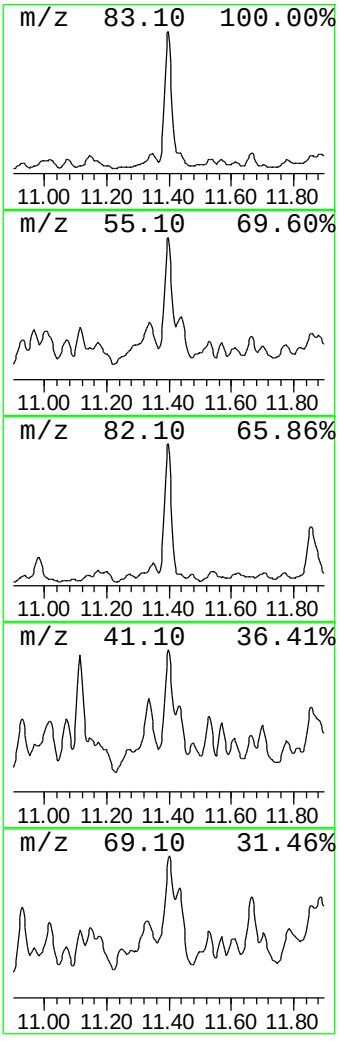
****

Peak Number 30 (DEL) Alkane: Cyclic11.40 Concentration Rank 47

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.40	31.64 ug/L	608030	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, (2-methylpropyl)-	140	C10H20	001678-98-4	72
2	Cyclohexane, (2-methylpropyl)-	140	C10H20	001678-98-4	72
3	Cyclohexane, butyl-	140	C10H20	001678-93-9	68
4	Cyclohexane, butyl-	140	C10H20	001678-93-9	64
5	Cyclohexane, butyl-	140	C10H20	001678-93-9	64





Library Search Compound Report

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Data File : VU028946.D
Acq On : 24 Dec 2018 14:42
Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

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

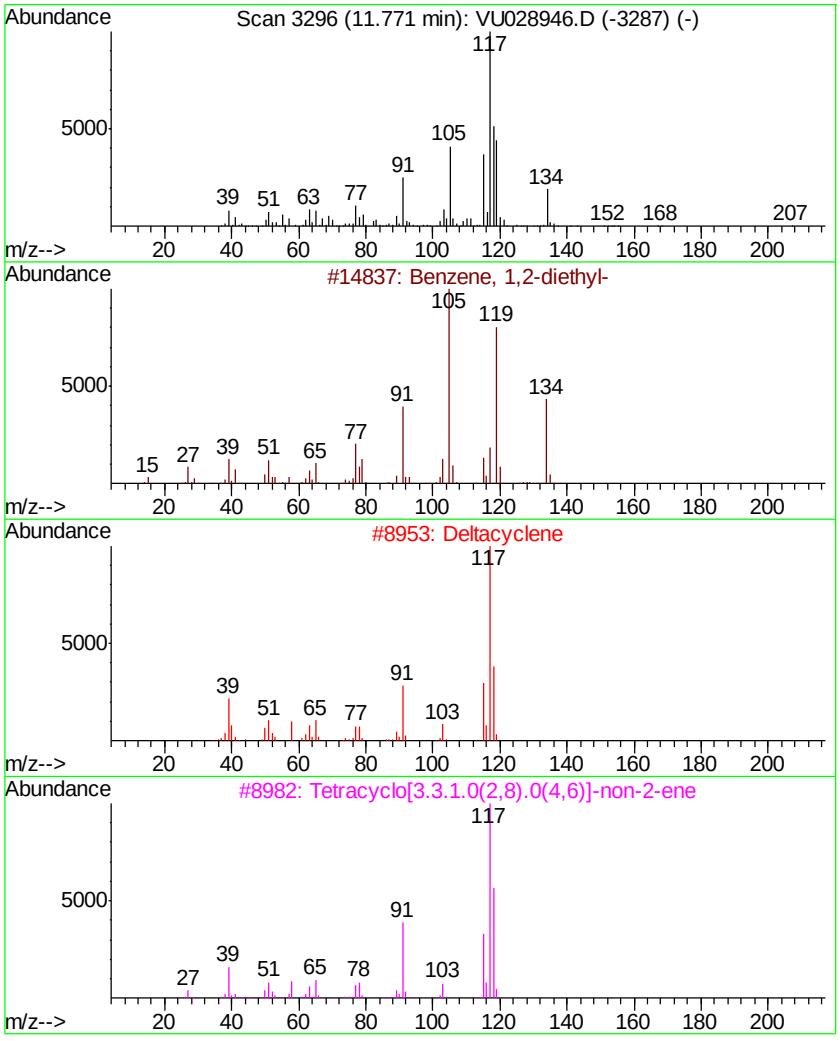
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

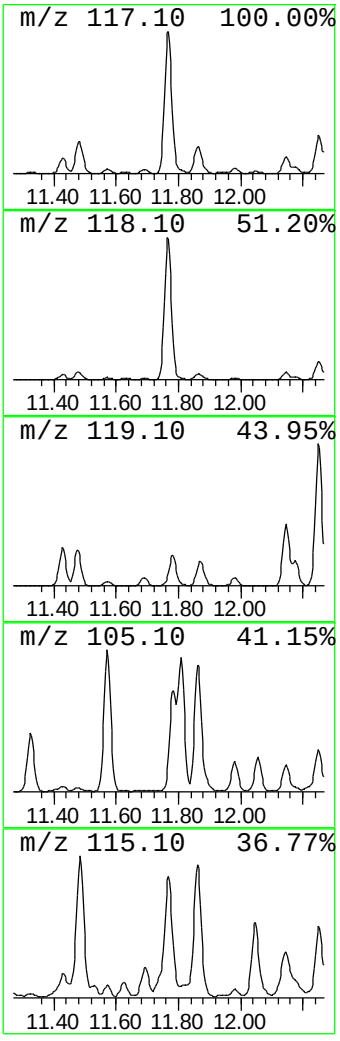
****

Peak Number 32 Benzene, 1,2-diethyl- Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.77	56.26 ug/L	1081290	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	80
2	Deltacyclene	118	C9H10	007785-10-6	60
3	Tetracyclo[3.3.1.0(2,8).0(4,6)]-...	118	C9H10	1000191-13-7	60
4	Benzene, cyclopropyl-	118	C9H10	000873-49-4	60
5	Benzene, 2-propenyl-	118	C9H10	000300-57-2	55





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Data File : VU028946.D
Acq On : 24 Dec 2018 14:42
Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

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

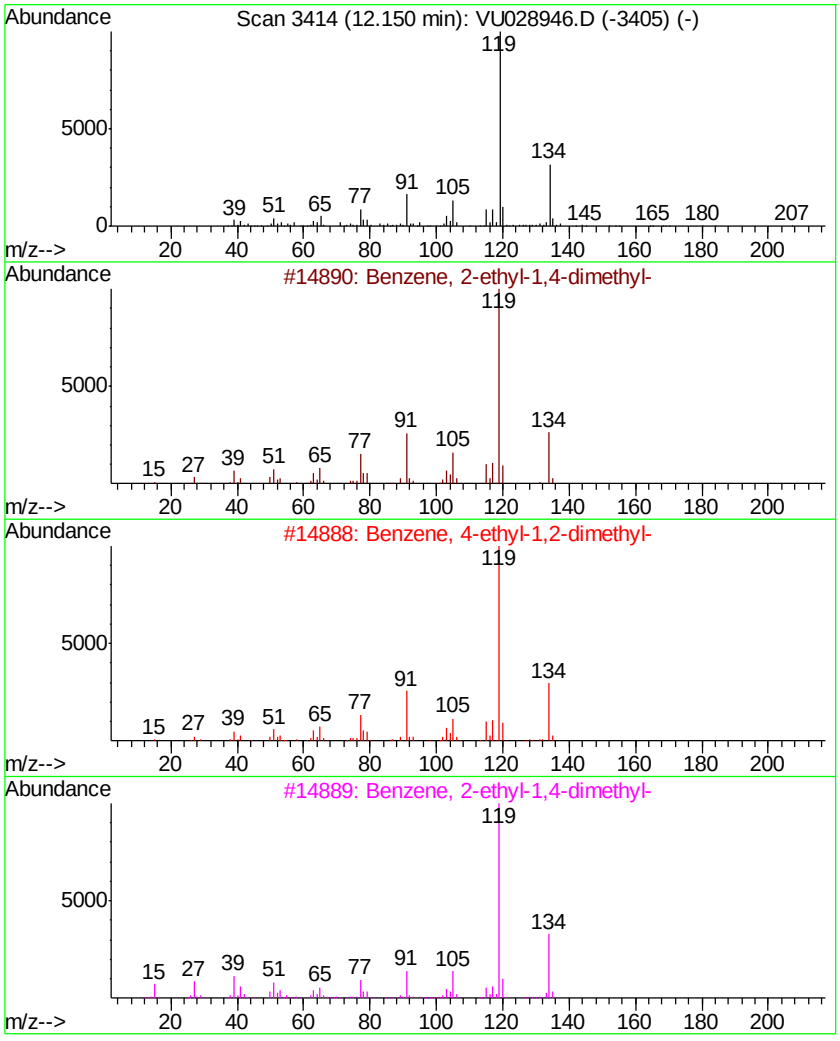
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

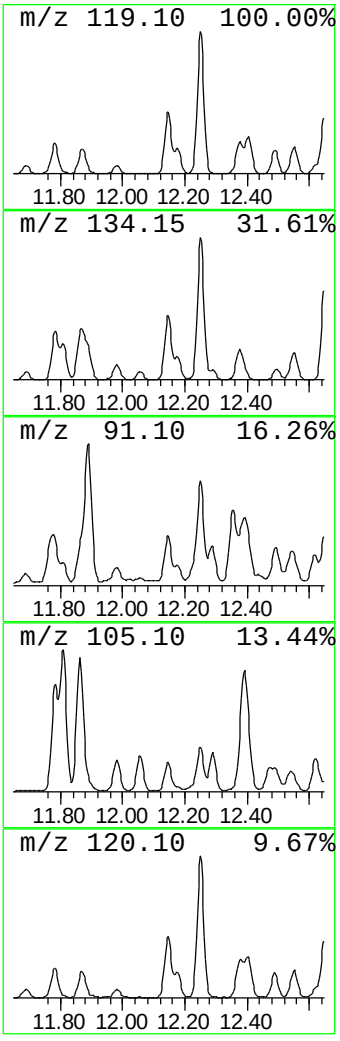
****

Peak Number 33 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 41

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.15	32.57 ug/L	625977	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	96
2	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	96
3	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	95
4	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	95
5	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	95





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Acq On : 24 Dec 2018 14:42
Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

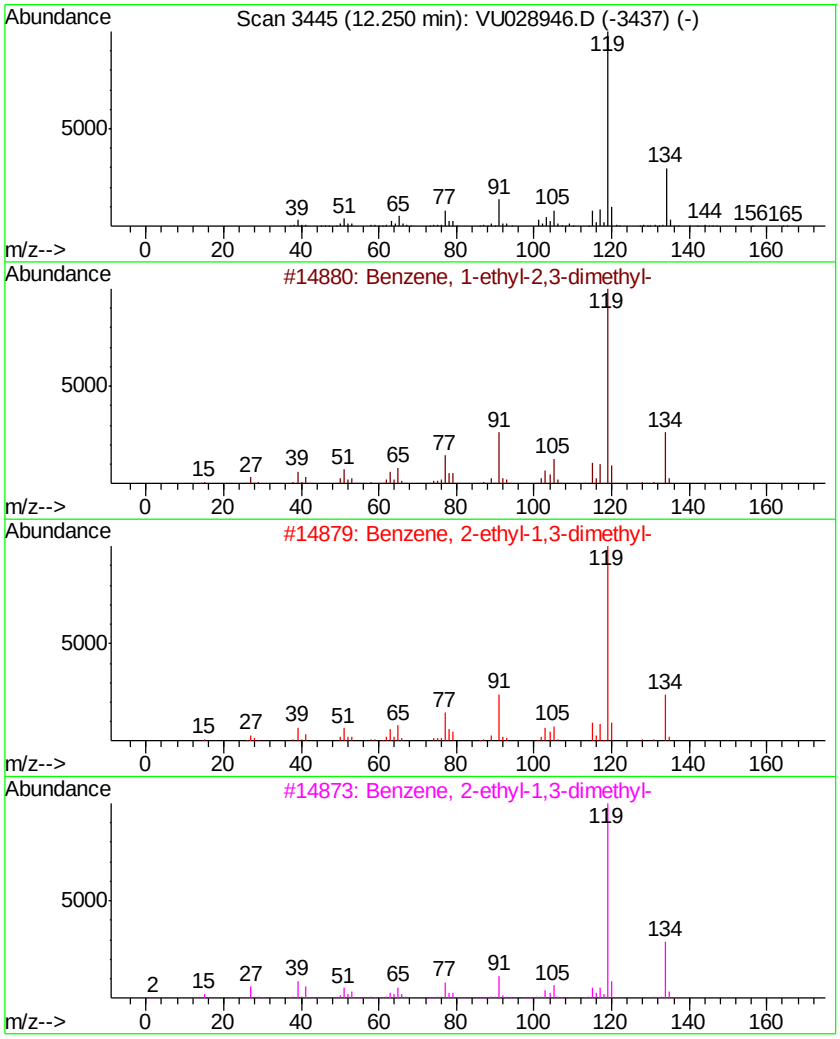
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

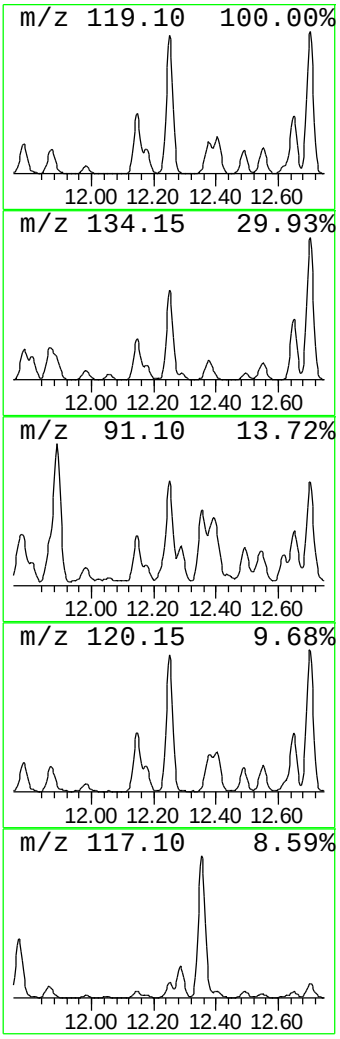
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 34 Benzene, 1-ethyl-2,3-dimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.25	57.74 ug/L	1109730	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	96
2	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	95
3	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	94
4	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	94
5	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	94





Library Search Compound Report

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Data File : VU028946.D
Acq On : 24 Dec 2018 14:42
Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

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

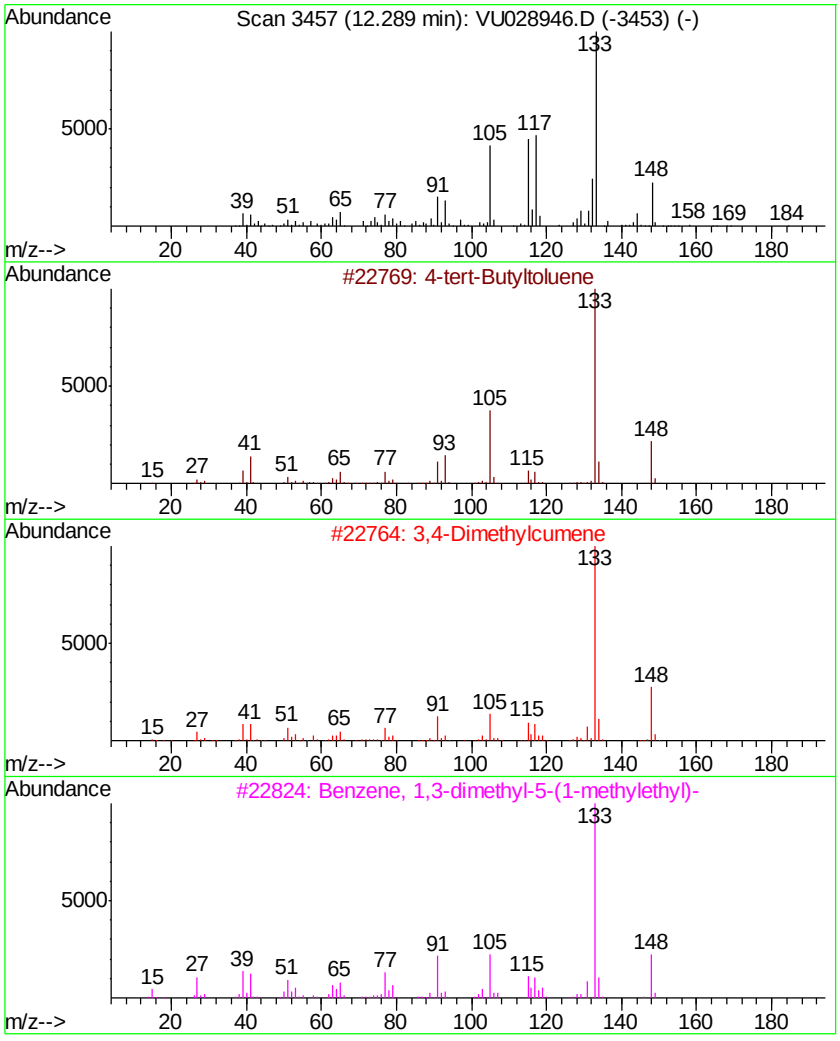
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

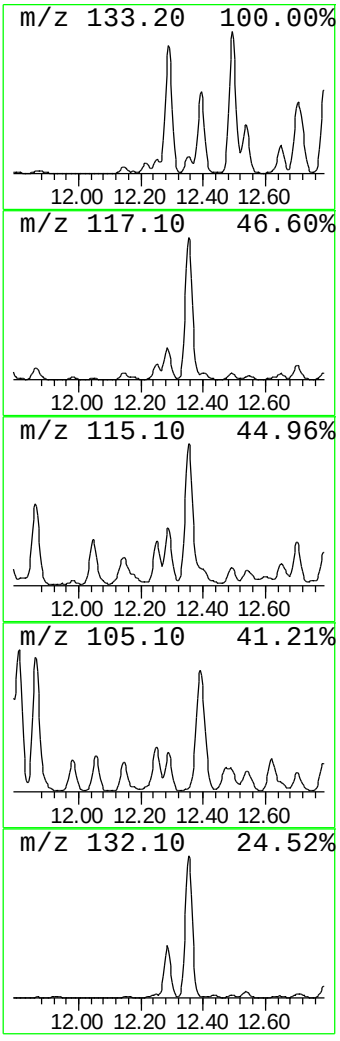
****

Peak Number 35 unknown-02 Concentration Rank 56

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	27.62 ug/L	530782	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-tert-Butyltoluene	148	C11H16	000098-51-1	43
2	3,4-Dimethylcumene	148	C11H16	1000370-34-1	43
3	Benzene, 1,3-dimethyl-5-(1-methy...	148	C11H16	004706-90-5	43
4	Benzene, 1-(1,1-dimethylethyl)-3...	148	C11H16	001075-38-3	41
5	Benzene, 1,4-dimethyl-2-(1-methy...	148	C11H16	004132-72-3	38





Library Search Compound Report

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Data File : VU028946.D
Acq On : 24 Dec 2018 14:42
Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

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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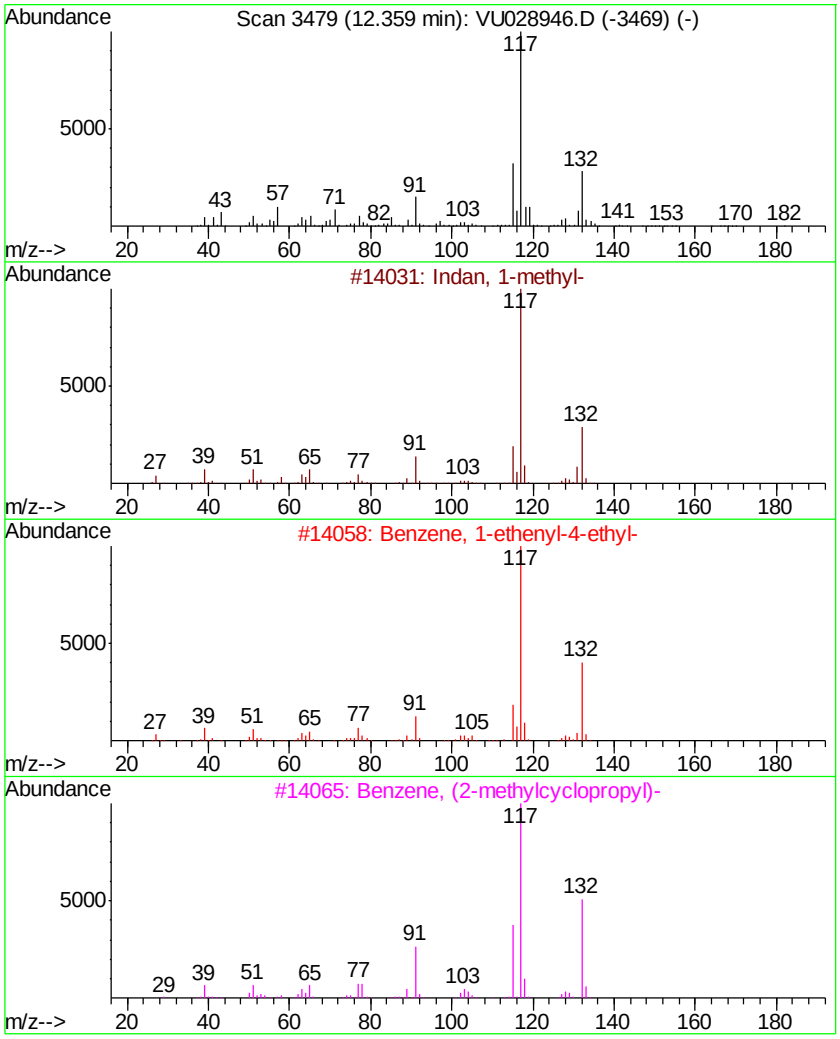
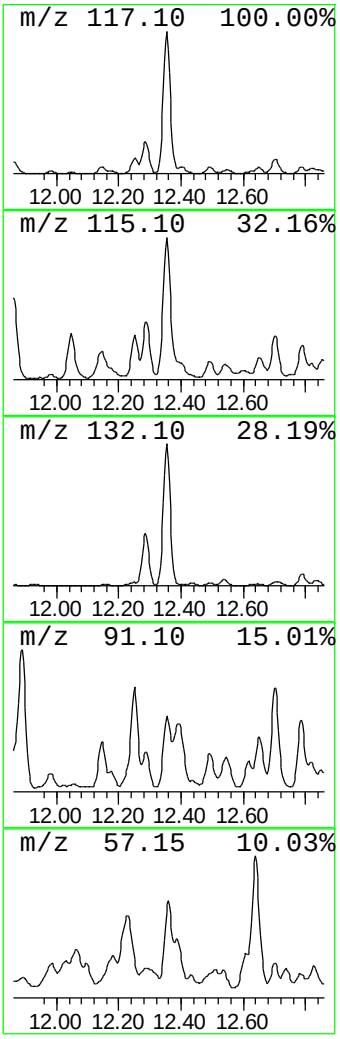
Peak Number 36 Indan, 1-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.36	79.59 ug/L	1529660	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indan, 1-methyl-	132	C10H12	000767-58-8	87
2	Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	81
3	Benzene, (2-methylcyclopropyl)-	132	C10H12	1000327-39-0	80
4	Indan, 1-methyl-	132	C10H12	000767-58-8	76
5	Benzene, 1-methyl-2-(2-propenyl)-	132	C10H12	001587-04-8	72





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Acq On : 24 Dec 2018 14:42
Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

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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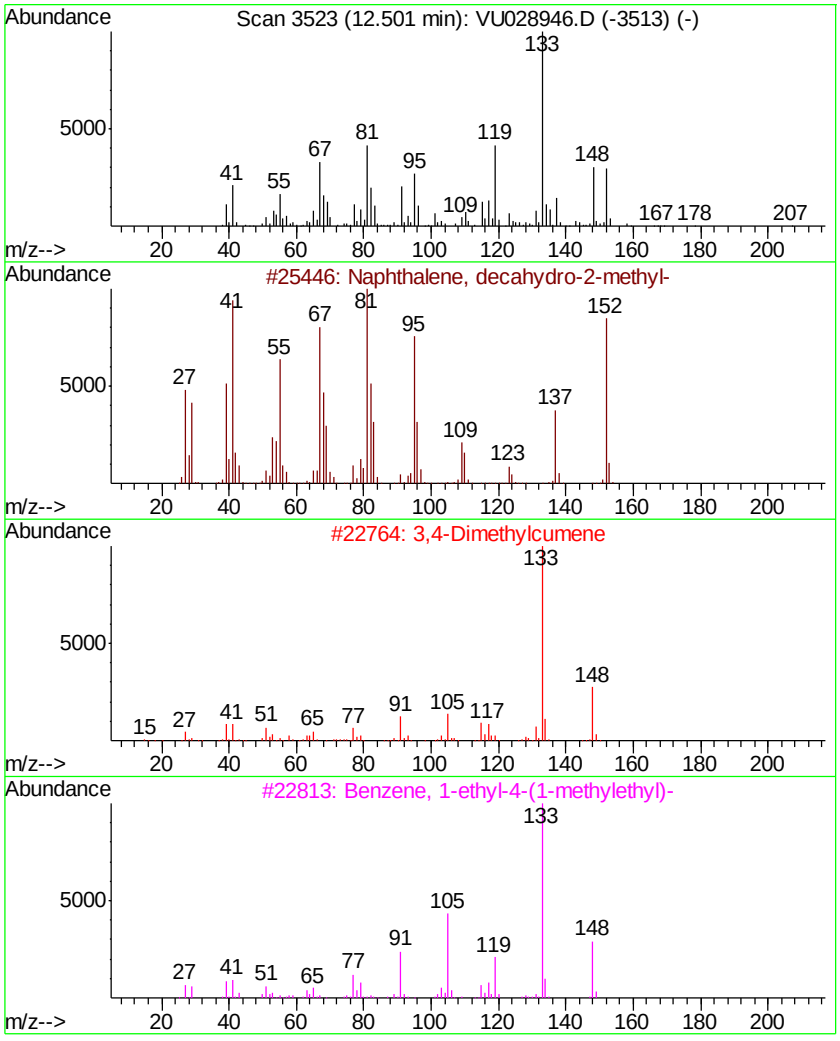
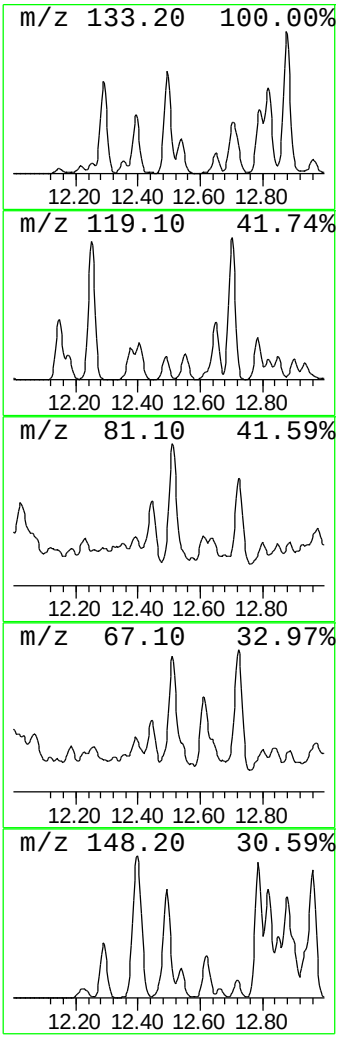
Peak Number 37 Naphthalene, decahydro-2-me... Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.50	50.86 ug/L	977363	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, decahydro-2-methyl-	152	C11H20	002958-76-1	56
2	3,4-Dimethylcumene	148	C11H16	1000370-34-1	42
3	Benzene, 1-ethyl-4-(1-methylethyl)-	148	C11H16	004218-48-8	41
4	Benzene, 1,3-dimethyl-5-(1-methy...	148	C11H16	004706-90-5	38
5	4-tert-Butyltoluene	148	C11H16	000098-51-1	38





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Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

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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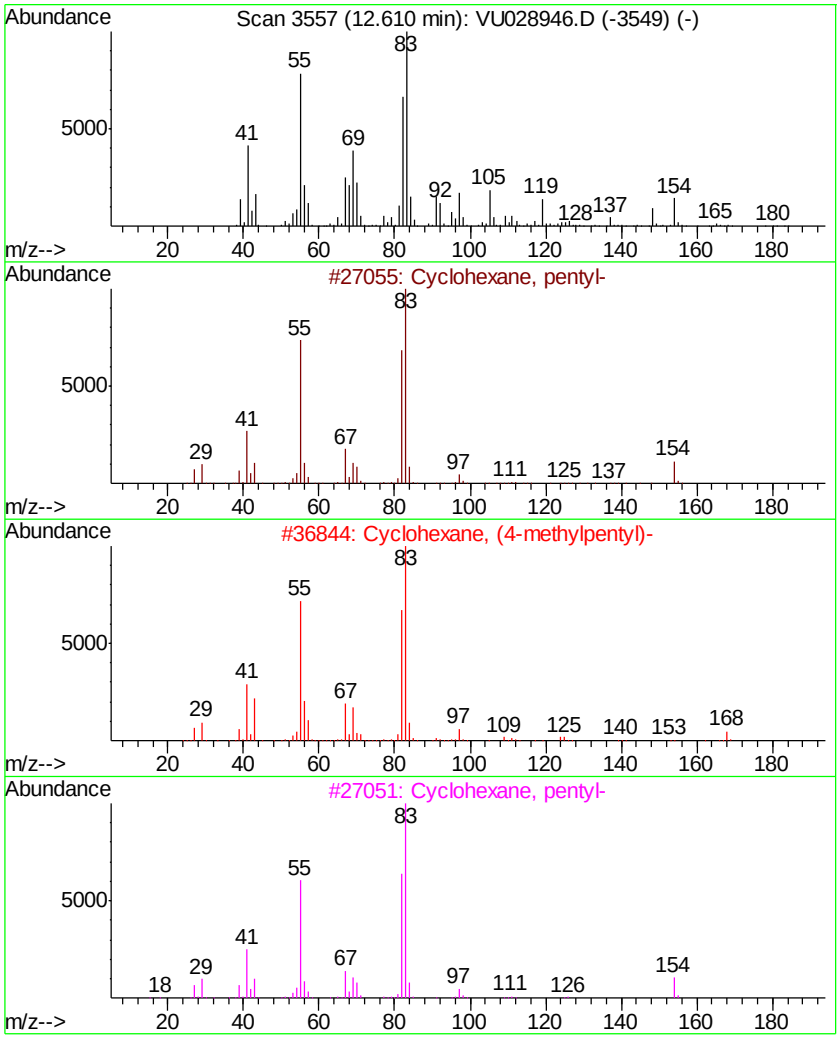
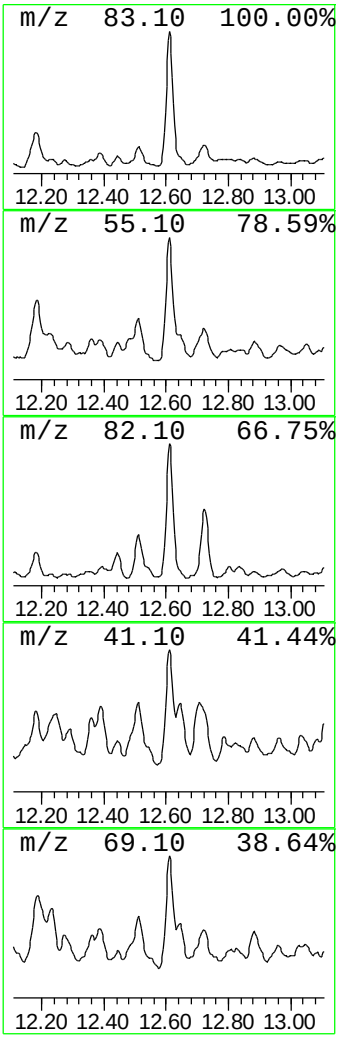
Peak Number 38 (DEL) Alkane: Cyclic12.61 Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.61	50.70 ug/L	974295	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, pentyl-	154	C11H22	004292-92-6	58
2	Cyclohexane, (4-methylpentyl)-	168	C12H24	061142-20-9	53
3	Cyclohexane, pentyl-	154	C11H22	004292-92-6	52
4	Cyclohexane, pentyl-	154	C11H22	004292-92-6	52
5	Cyclohexane, butyl-	140	C10H20	001678-93-9	50





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Acq On : 24 Dec 2018 14:42
Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

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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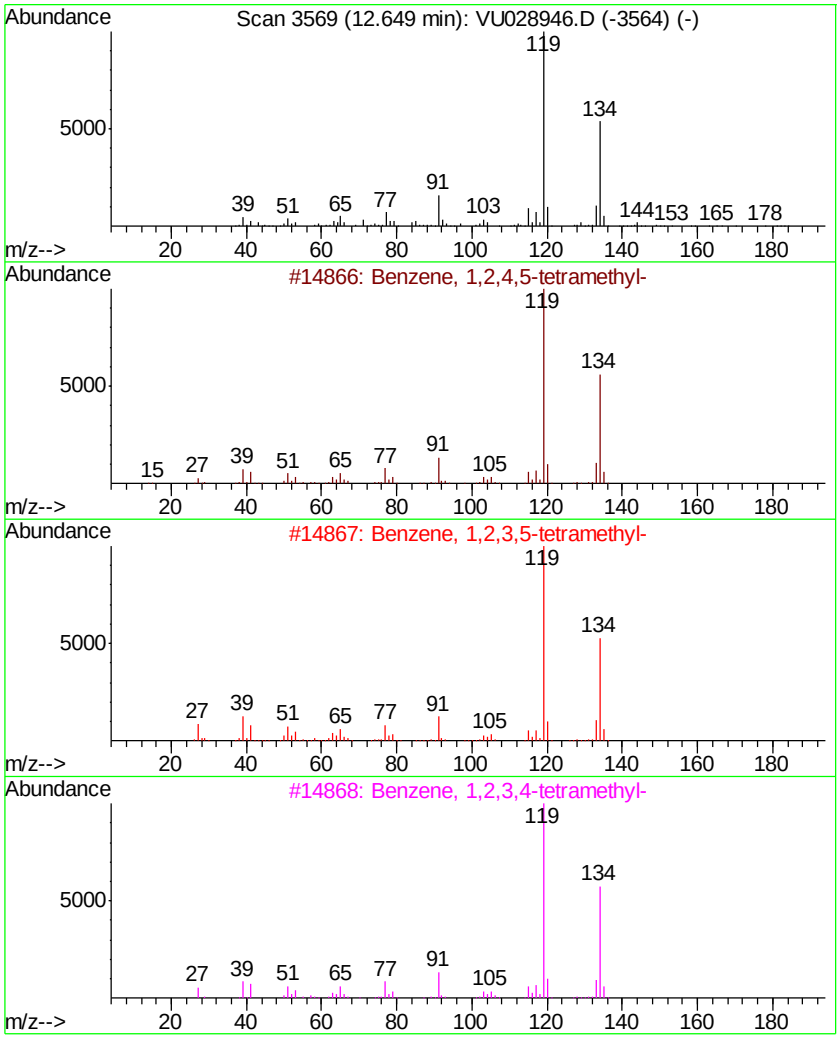
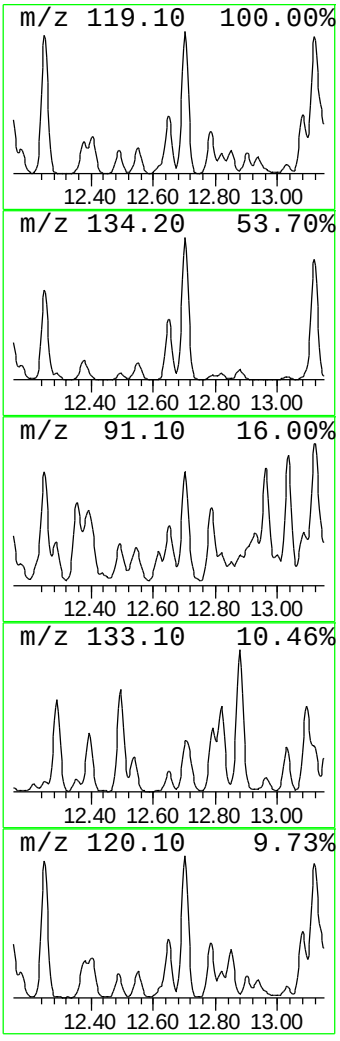
Peak Number 39 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 31

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.65	41.75 ug/L	802340	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	97
2	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	94
3	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	94
4	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	91
5	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	91





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Acq On : 24 Dec 2018 14:42
Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

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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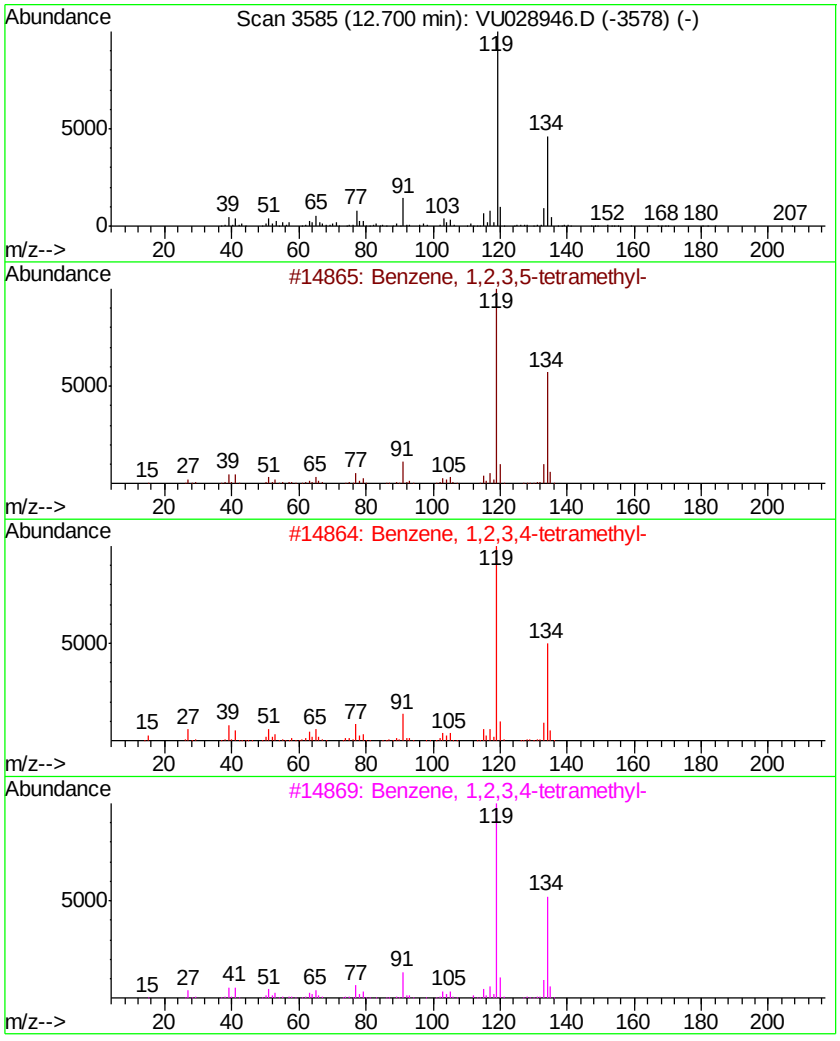
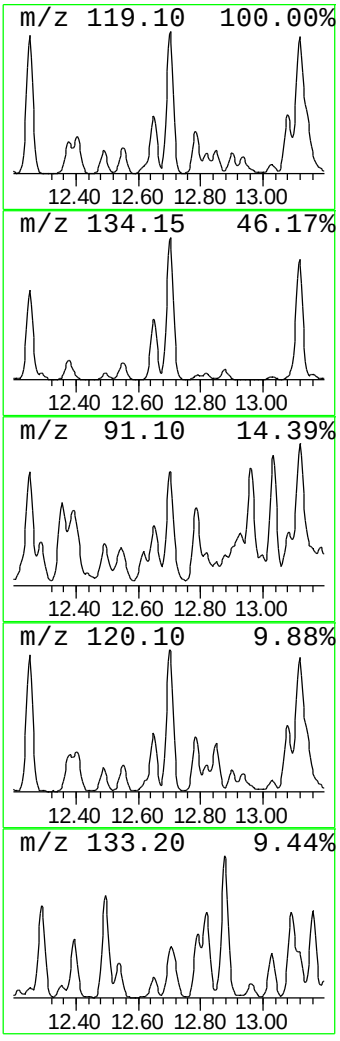
Peak Number 40 Benzene, 1,2,3,5-tetramethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.70	115.49 ug/L	2219430	1,4-Dichlorobenzene-d4	11.48

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





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Data File : VU028946.D
Acq On : 24 Dec 2018 14:42
Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

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

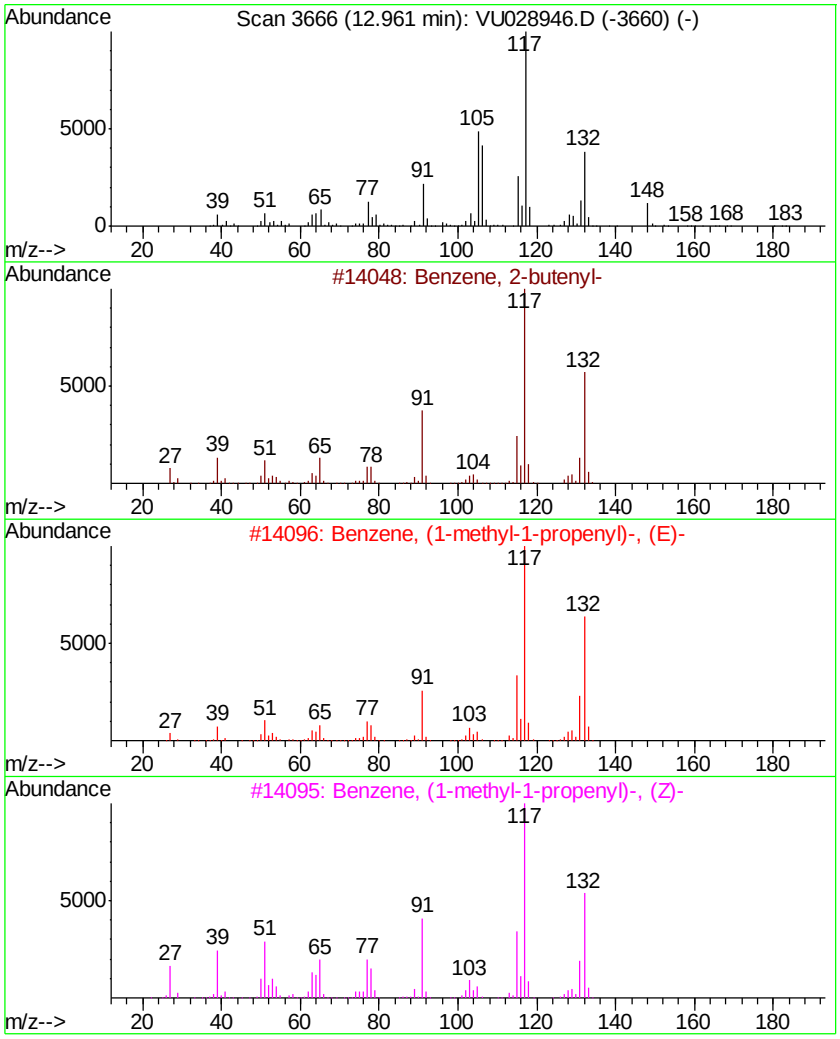
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

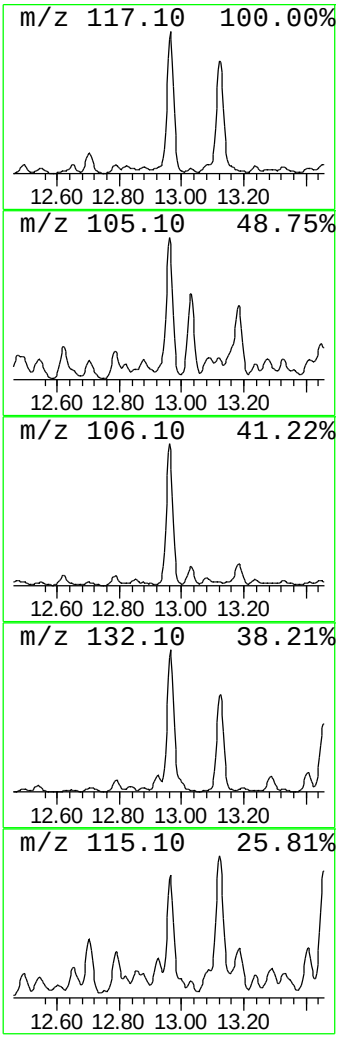
****

Peak Number 42 Benzene, 2-butenyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.96	61.98 ug/L	1191110	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-butenyl-	132	C10H12	001560-06-1	91
2	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000768-00-3	91
3	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000767-99-7	91
4	Benzene, 1-methyl-2-(2-propenyl)-	132	C10H12	001587-04-8	91
5	Indan, 1-methyl-	132	C10H12	000767-58-8	87





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU122418\
Data File : VU028946.D
Acq On : 24 Dec 2018 14:42
Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

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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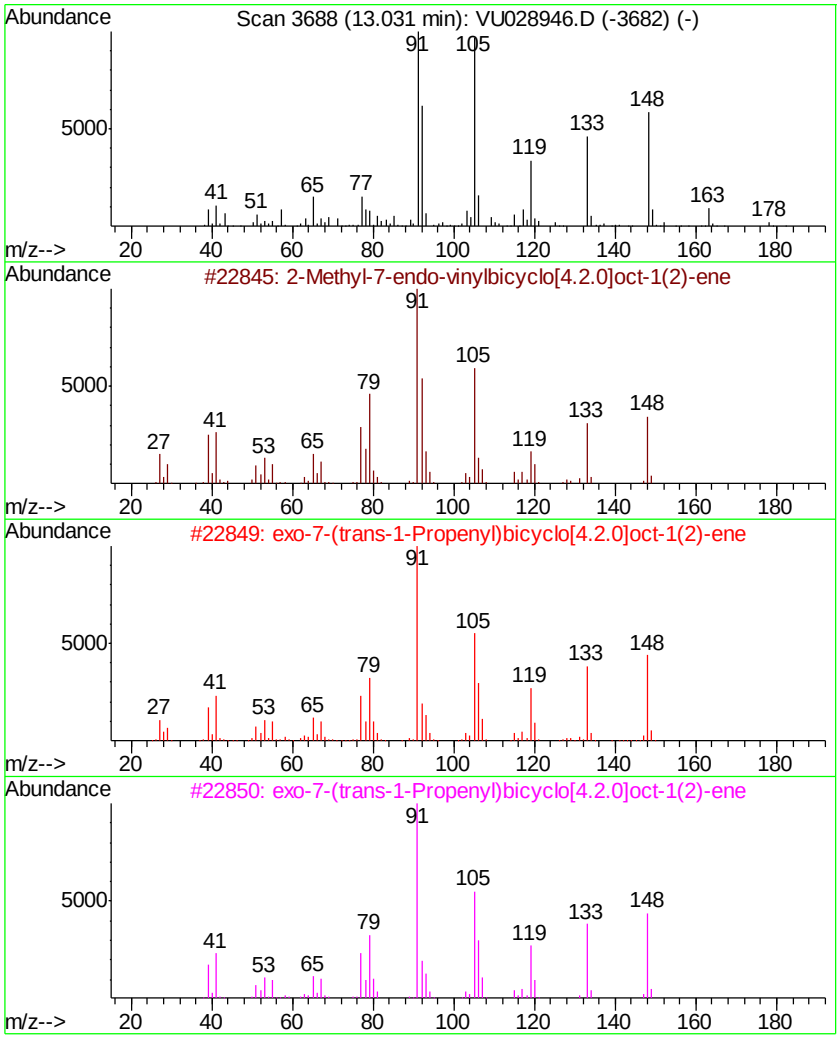
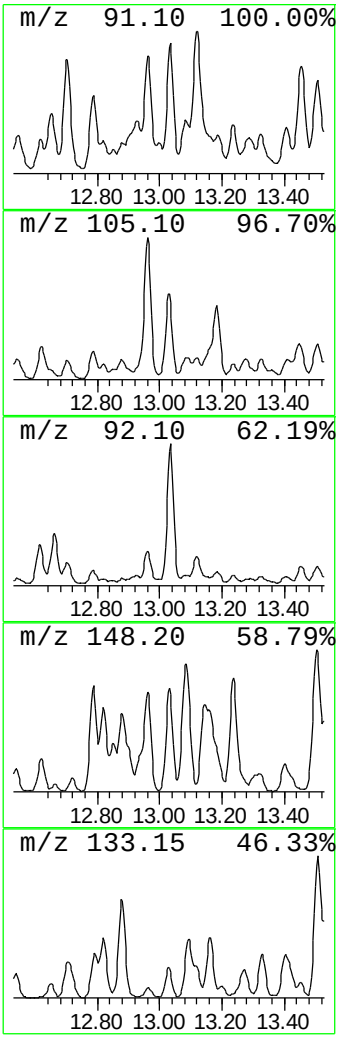
Peak Number 43 2-Methyl-7-endo-vinylbicycl... Concentration Rank 71

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.03	21.58 ug/L	414723	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Methyl-7-endo-vinylbicyclo[4.2...	148	C11H16	1000200-99-1	87
2	exo-7-(trans-1-Propenyl)bicyclo[...	148	C11H16	107983-42-6	64
3	exo-7-(trans-1-Propenyl)bicyclo[...	148	C11H16	107983-42-6	64
4	1H-Benzimidazole, 5-methoxy-	148	C8H8N2O	004887-80-3	46
5	2-Methyl-3,5-dinitrophenyl .beta...	330	C16H14N2O6	1000129-40-5	43





Library Search Compound Report

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Data File : VU028946.D
Acq On : 24 Dec 2018 14:42
Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

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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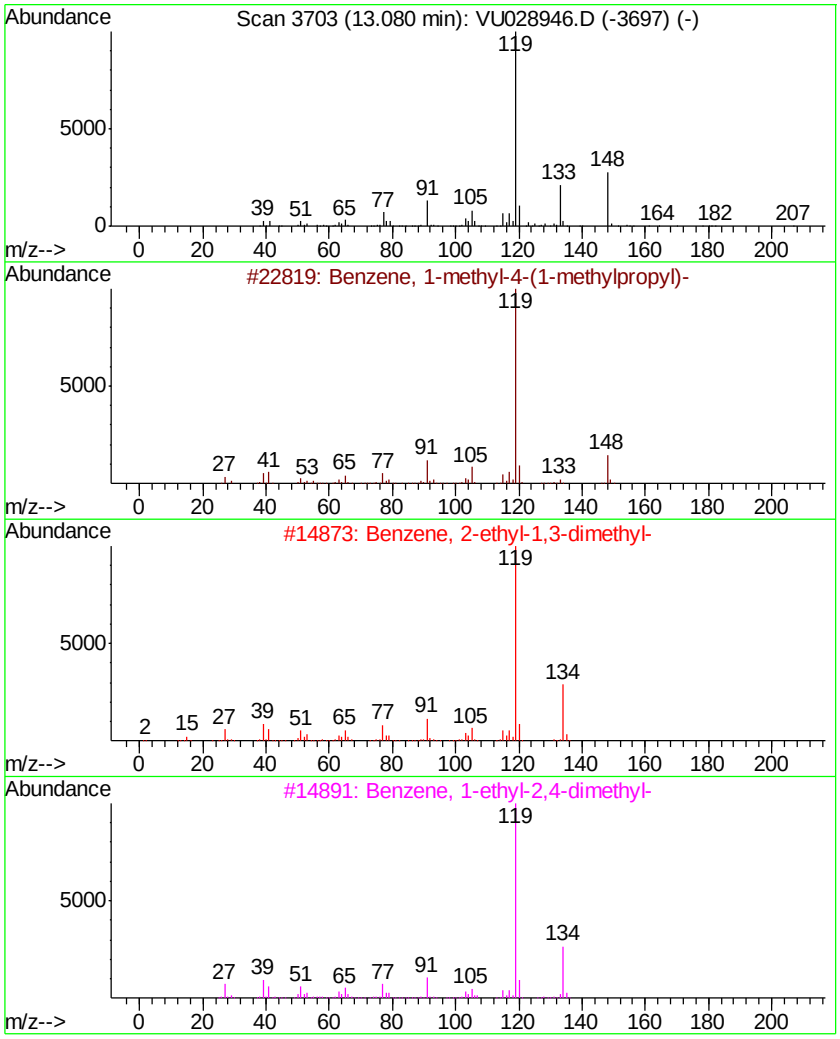
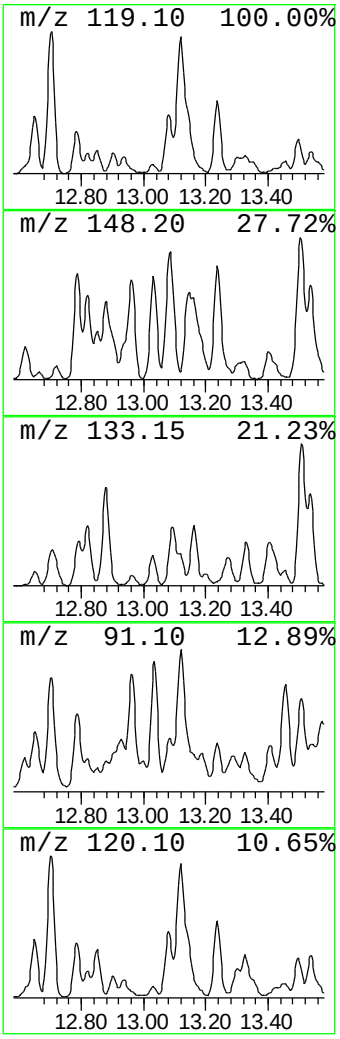
Peak Number 44 Benzene, 1-methyl-4-(1-meth... Concentration Rank 58

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.08	25.41 ug/L	488354	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-4-(1-methylpro...	148	C11H16	001595-16-0	87
2	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	76
3	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	76
4	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	76
5	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	76





Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU122418\
Data File : VU028946.D
Acq On : 24 Dec 2018 14:42
Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

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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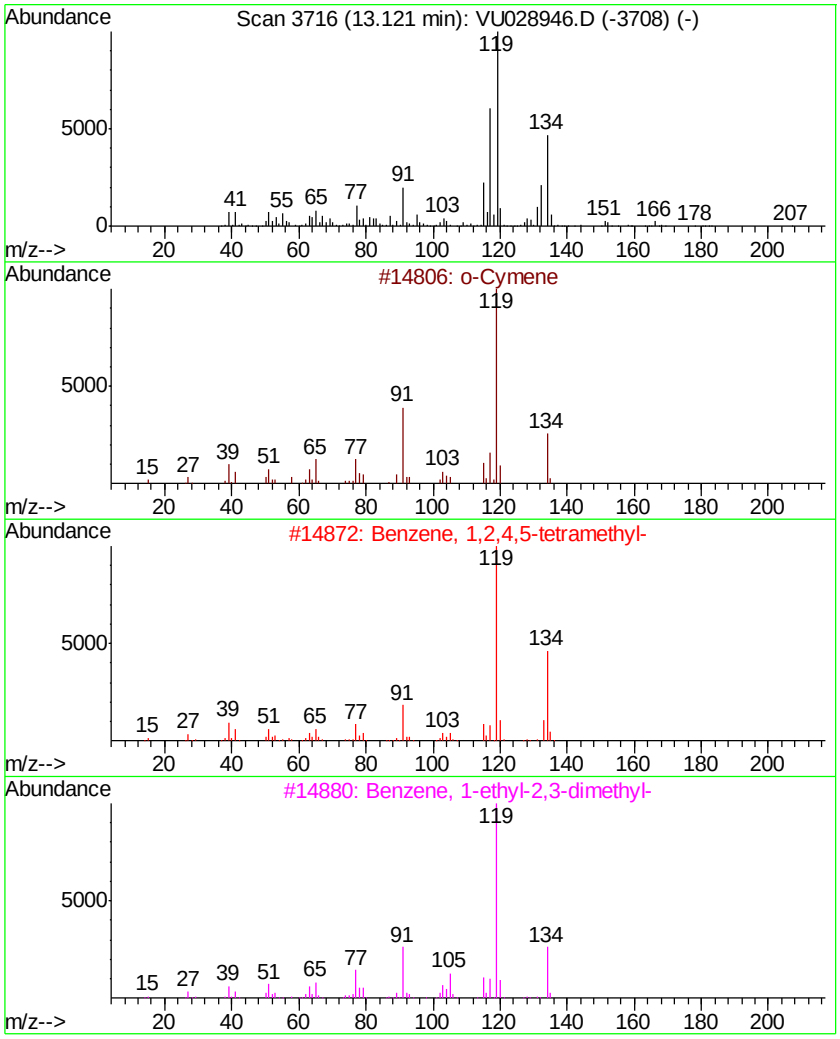
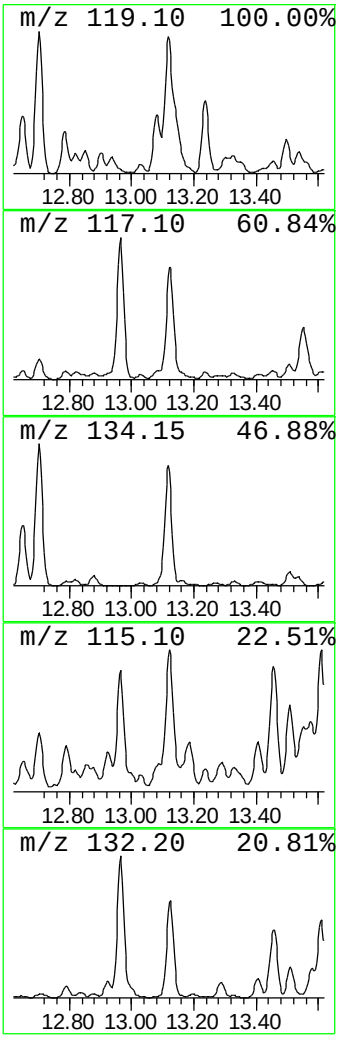
Peak Number 45 o-Cymene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.12	130.30 ug/L	2504220	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	o-Cymene	134	C10H14	000527-84-4	64
2	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	60
3	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	60
4	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	60
5	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	60





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Data File : VU028946.D
Acq On : 24 Dec 2018 14:42
Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

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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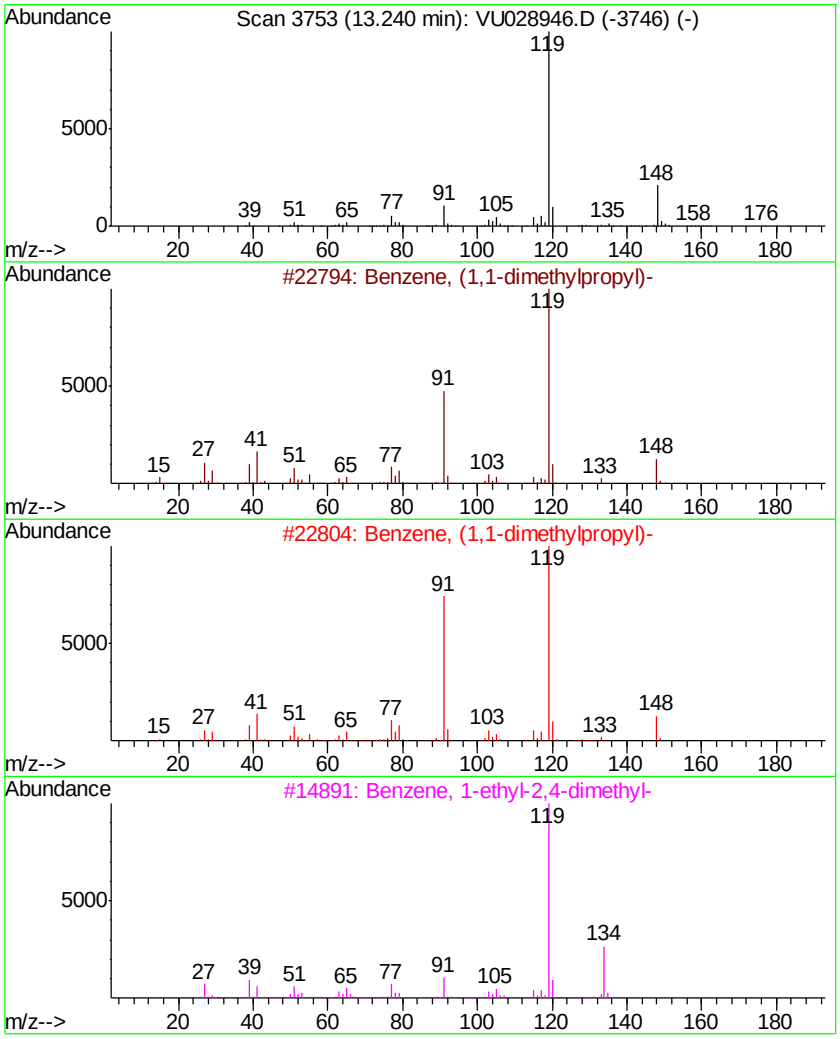
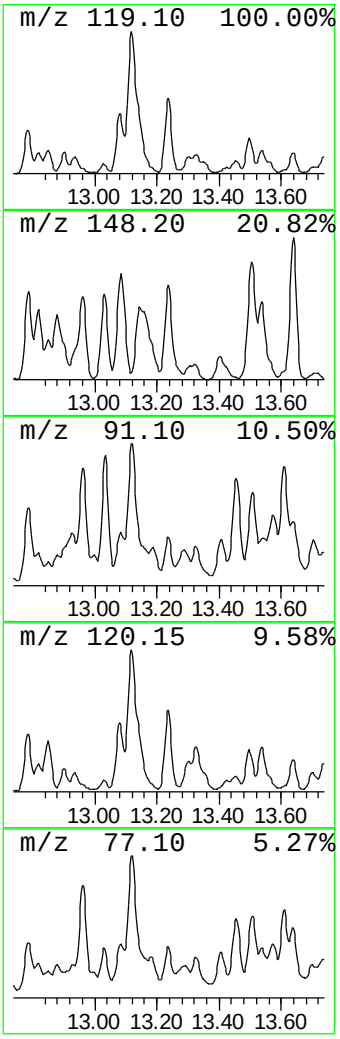
Peak Number 46 Benzene, (1,1-dimethylpropyl)- Concentration Rank 78

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.24	17.48 ug/L	335874	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (1,1-dimethylpropyl)-	148	C11H16	002049-95-8	83
2	Benzene, (1,1-dimethylpropyl)-	148	C11H16	002049-95-8	83
3	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	72
4	Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	64
5	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	64





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Data File : VU028946.D
Acq On : 24 Dec 2018 14:42
Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

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

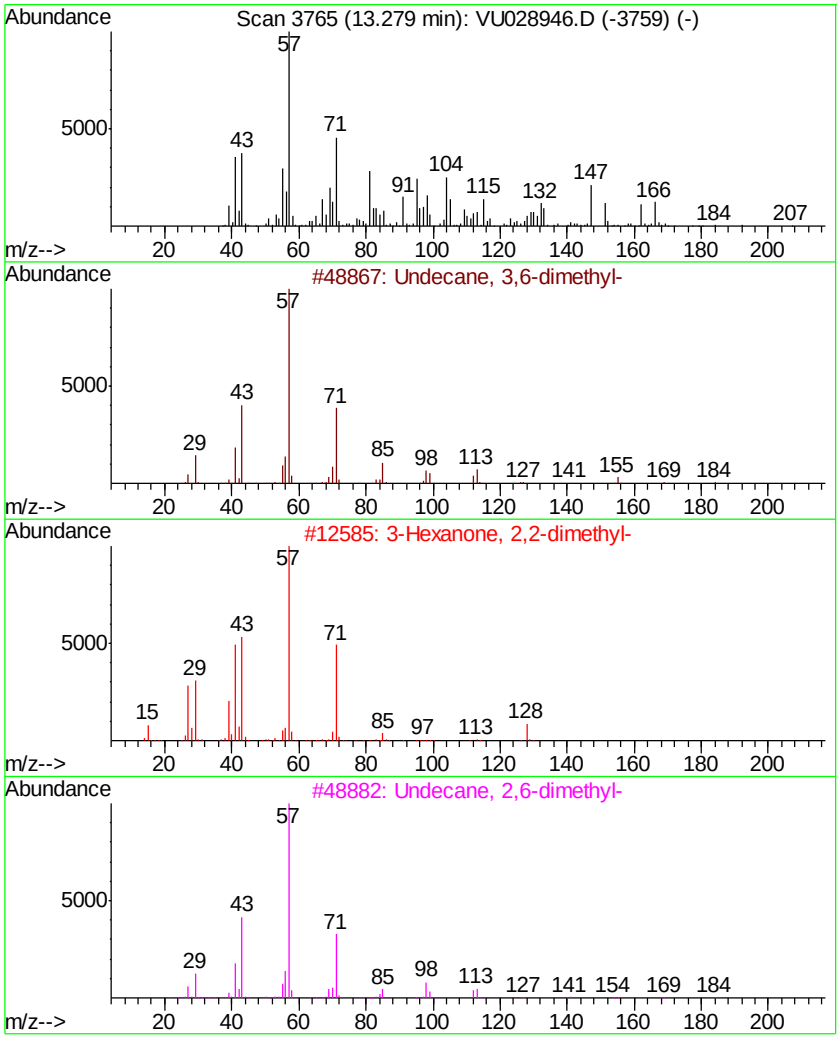
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

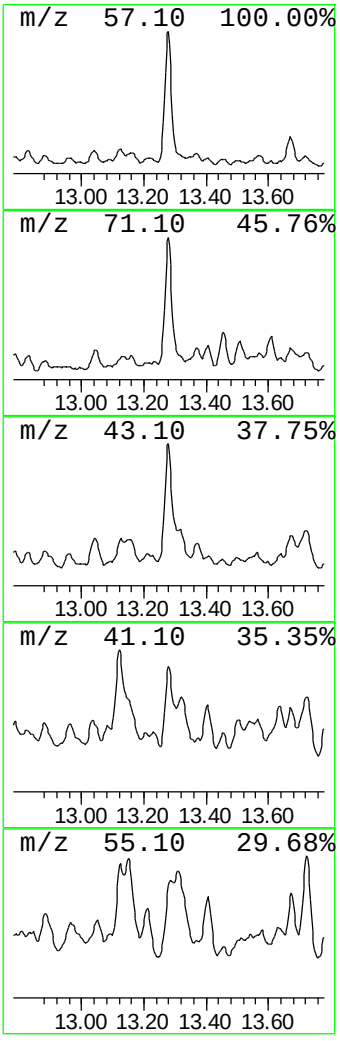
****

Peak Number 47 (DEL) Alkane: Straight-Chai... Concentration Rank 36

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.28	35.18 ug/L	676093	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 3,6-dimethyl-	184	C13H28	017301-28-9	15
2	3-Hexanone, 2,2-dimethyl-	128	C8H16O	005405-79-8	11
3	Undecane, 2,6-dimethyl-	184	C13H28	017301-23-4	11
4	Undecane, 4,6-dimethyl-	184	C13H28	017312-82-2	11
5	Dodecane, 6-methyl-	184	C13H28	006044-71-9	11





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Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

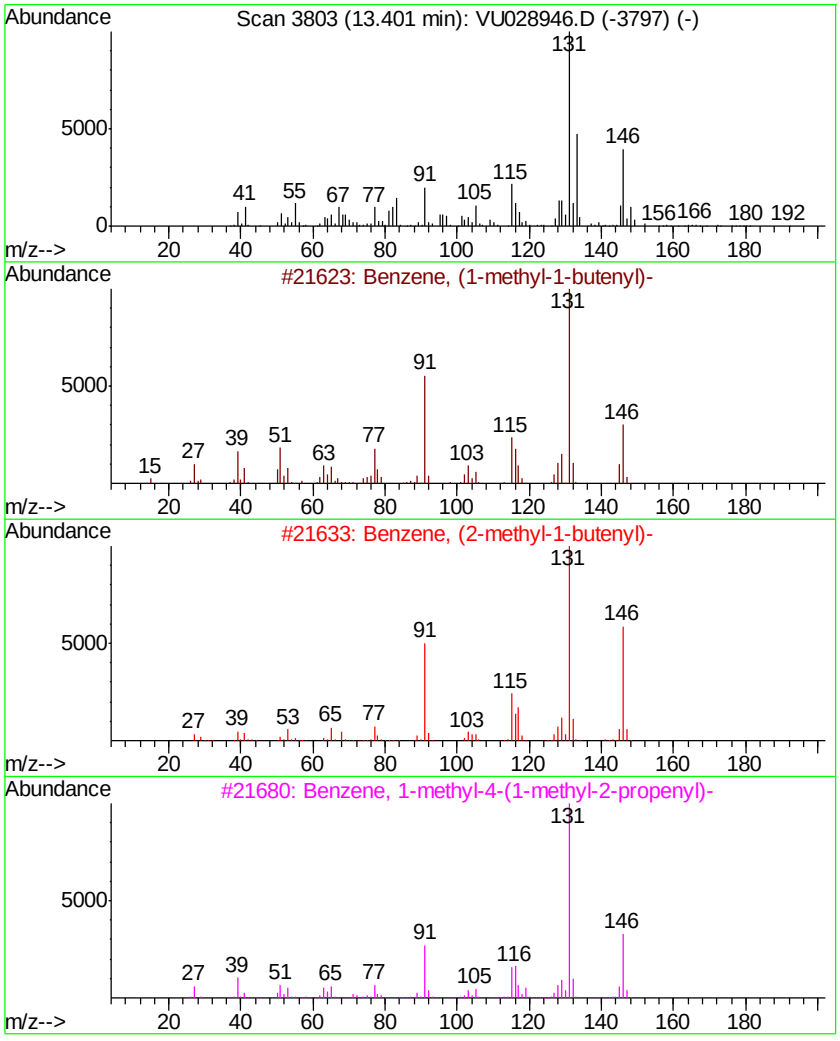
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

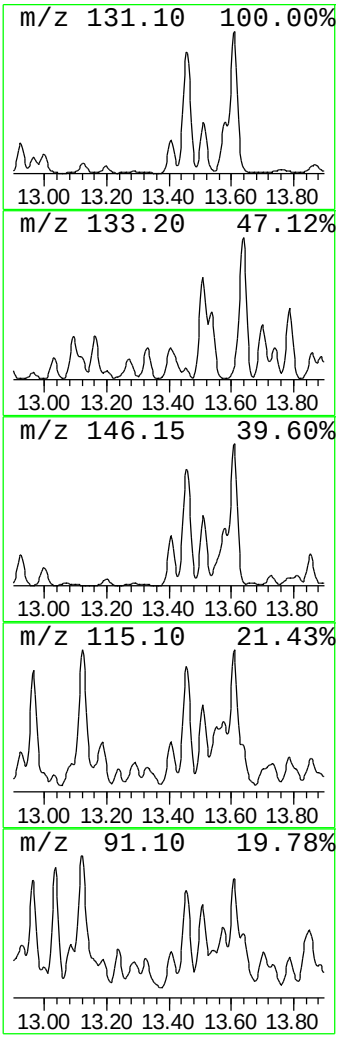
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 48 Benzene, (1-methyl-1-butenyl)- Concentration Rank 33

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.40	37.48 ug/L	720267	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (1-methyl-1-butenyl)-	146	C11H14	053172-84-2	95
2	Benzene, (2-methyl-1-butenyl)-	146	C11H14	056253-64-6	89
3	Benzene, 1-methyl-4-(1-methyl-2-...	146	C11H14	097664-18-1	89
4	2-Butene, 3-chloro-1-phenyl-, (Z)-	166	C10H11Cl	016608-68-7	78
5	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	001559-81-5	76





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Acq On : 24 Dec 2018 14:42
Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

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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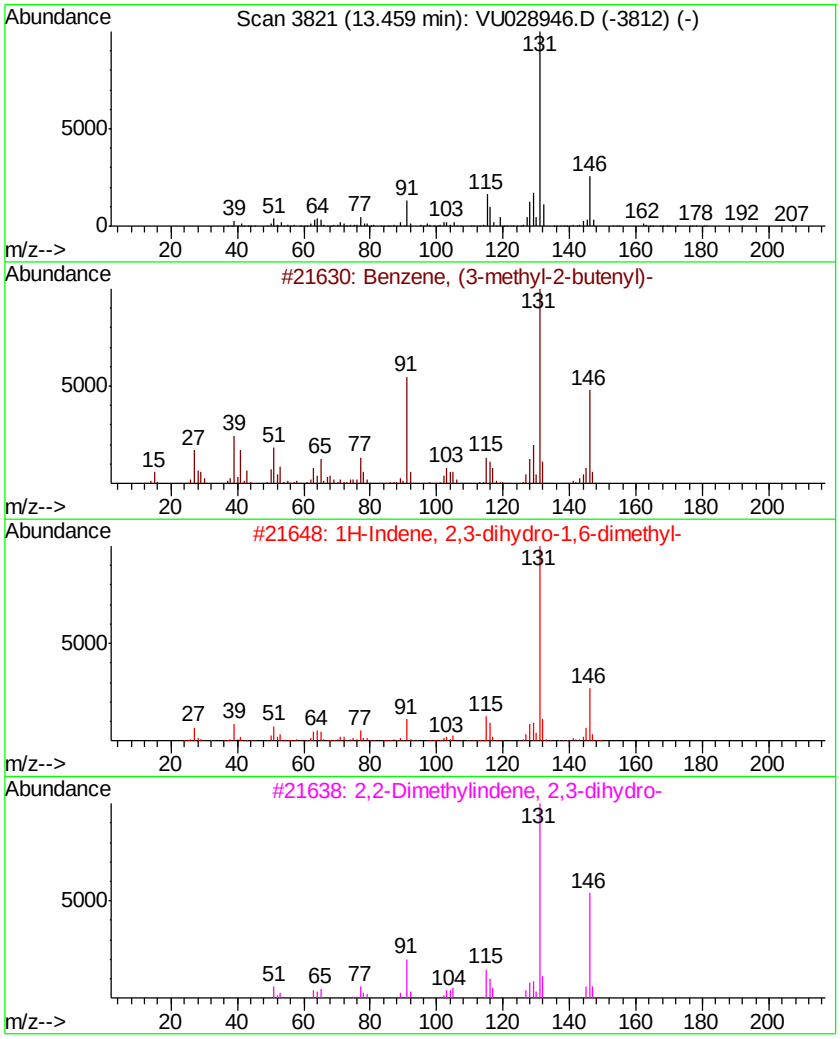
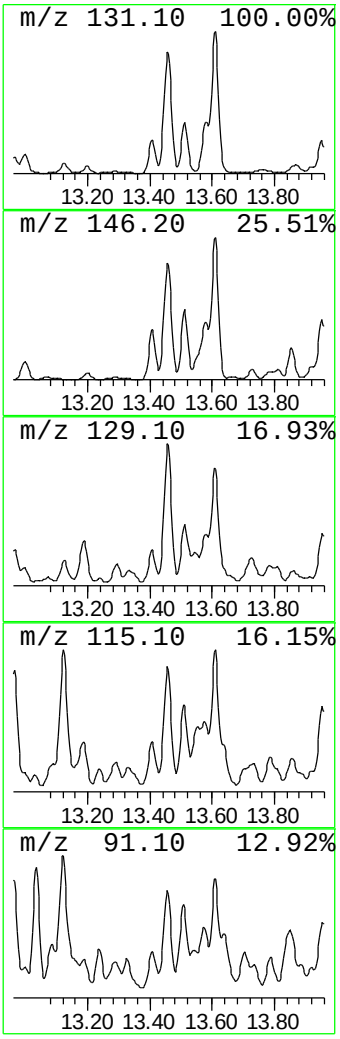
Peak Number 49 Benzene, (3-methyl-2-butenyl)- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.46	75.16 ug/L	1444390	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (3-methyl-2-butenyl)-	146	C11H14	004489-84-3	94
2	1H-Indene, 2,3-dihydro-1,6-dimet...	146	C11H14	017059-48-2	93
3	2,2-Dimethylindene, 2,3-dihydro-	146	C11H14	020836-11-7	91
4	1H-Indene, 2,3-dihydro-1,3-dimet...	146	C11H14	004175-53-5	90
5	1H-Indene, 2,3-dihydro-1,2-dimet...	146	C11H14	017057-82-8	90





Library Search Compound Report

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Data File : VU028946.D
Acq On : 24 Dec 2018 14:42
Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

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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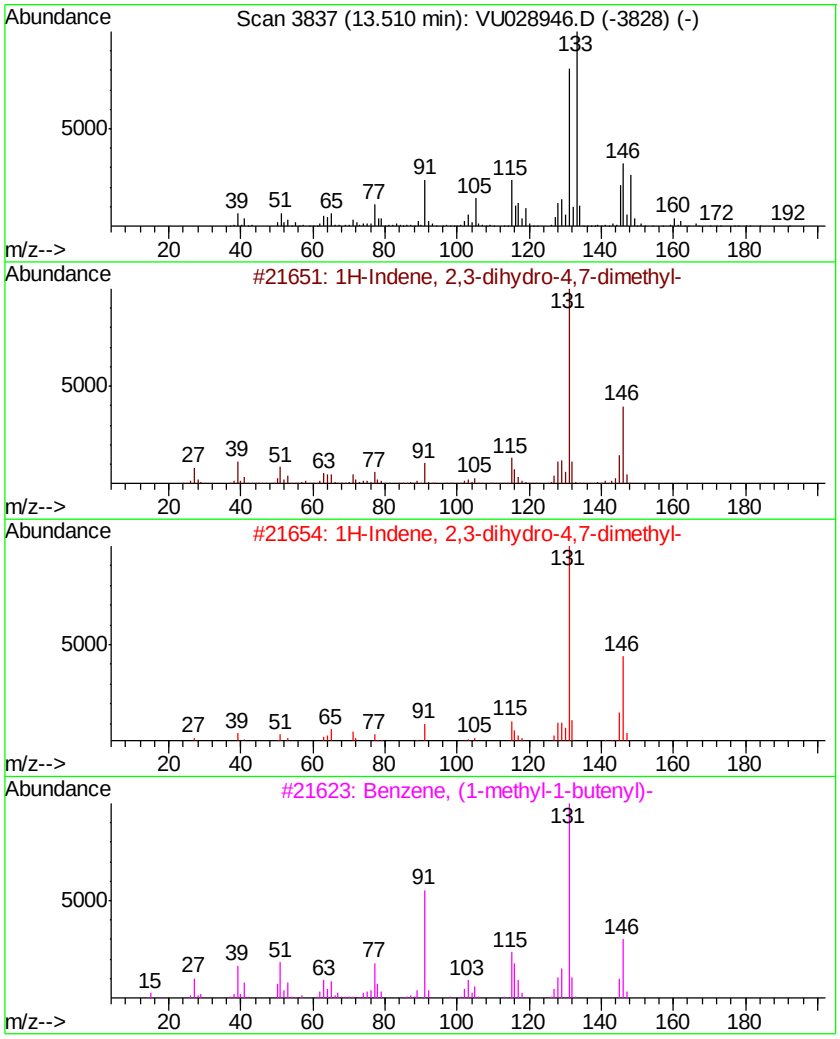
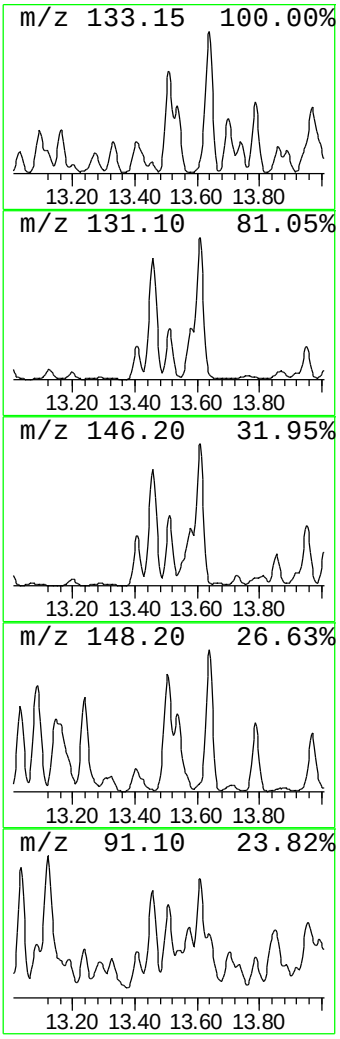
Peak Number 50 1H-Indene, 2,3-dihydro-4,7-... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.51	64.23 ug/L	1234370	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	50
2	1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	50
3	Benzene, (1-methyl-1-butenyl)-	146	C11H14	053172-84-2	46
4	Benzene, 1-ethyl-4-(1-methylethyl)-	148	C11H16	004218-48-8	46
5	4-Methyl-2H-benzopyrane	146	C10H10O	021776-94-3	46





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Data File : VU028946.D
Acq On : 24 Dec 2018 14:42
Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

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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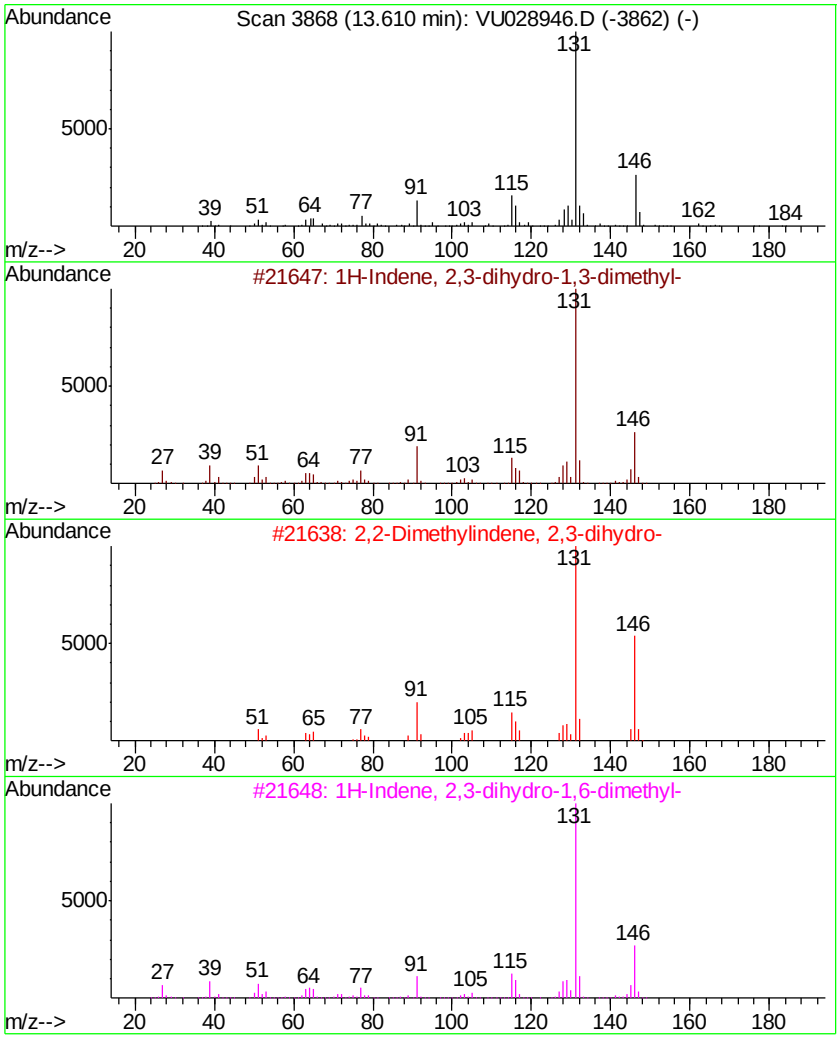
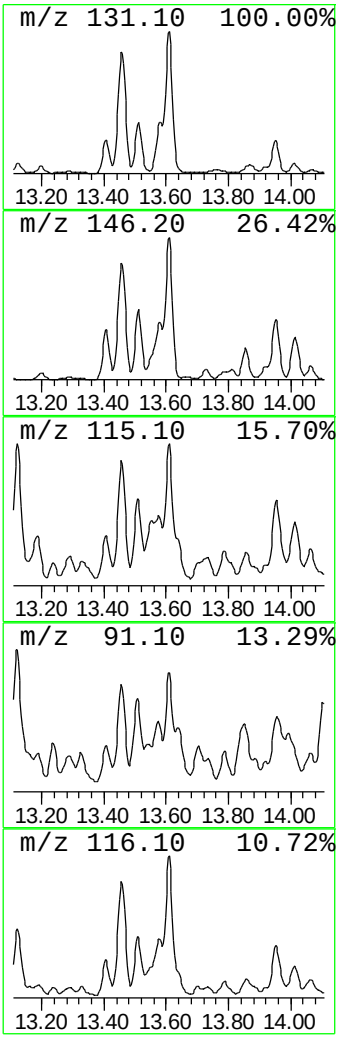
Peak Number 51 1H-Indene, 2,3-dihydro-1,3-... Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.61	46.22 ug/L	888341	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-1,3-dimet...	146	C11H14	004175-53-5	91
2	2,2-Dimethylindene, 2,3-dihydro-	146	C11H14	020836-11-7	91
3	1H-Indene, 2,3-dihydro-1,6-dimet...	146	C11H14	017059-48-2	91
4	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	001559-81-5	91
5	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	001559-81-5	91





Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU122418\
Data File : VU028946.D
Acq On : 24 Dec 2018 14:42
Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

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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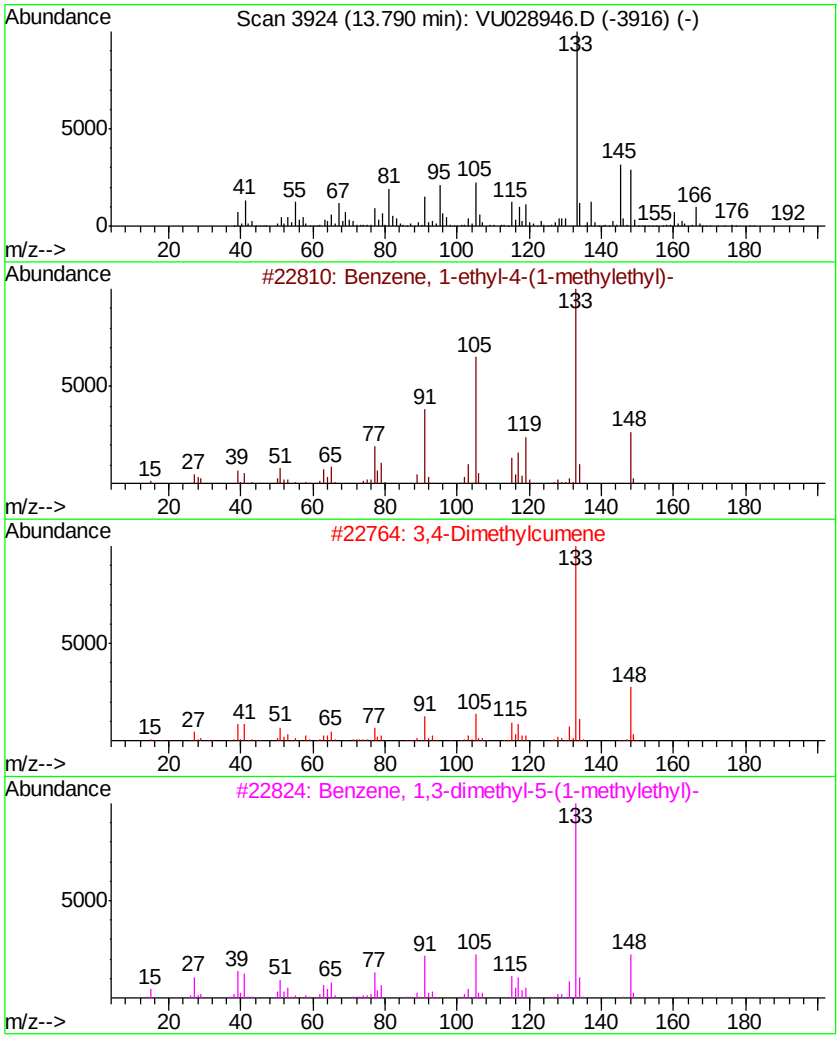
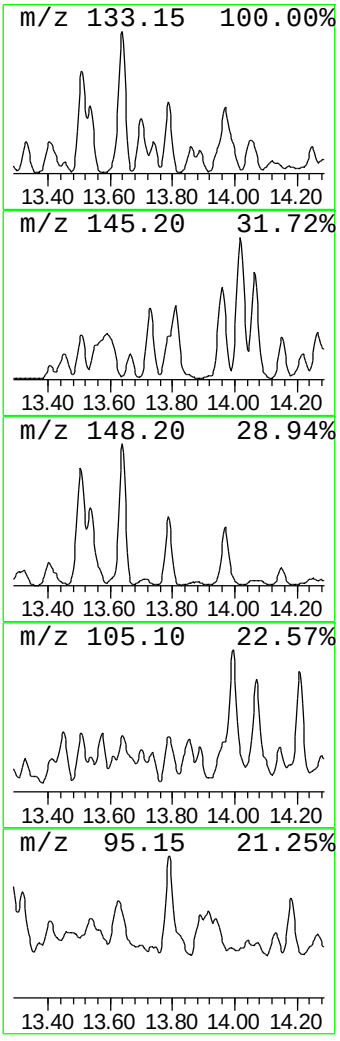
Peak Number 52 Benzene, 1-ethyl-4-(1-methy... Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.79	48.26 ug/L	927569	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-4-(1-methylethyl)-	148	C11H16	004218-48-8	70
2	3,4-Dimethylcumene	148	C11H16	1000370-34-1	64
3	Benzene, 1,3-dimethyl-5-(1-methy...	148	C11H16	004706-90-5	62
4	Benzene, 1,4-dimethyl-2-(1-methy...	148	C11H16	004132-72-3	58
5	4-tert-Butyltoluene	148	C11H16	000098-51-1	55





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Data File : VU028946.D
Acq On : 24 Dec 2018 14:42
Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

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

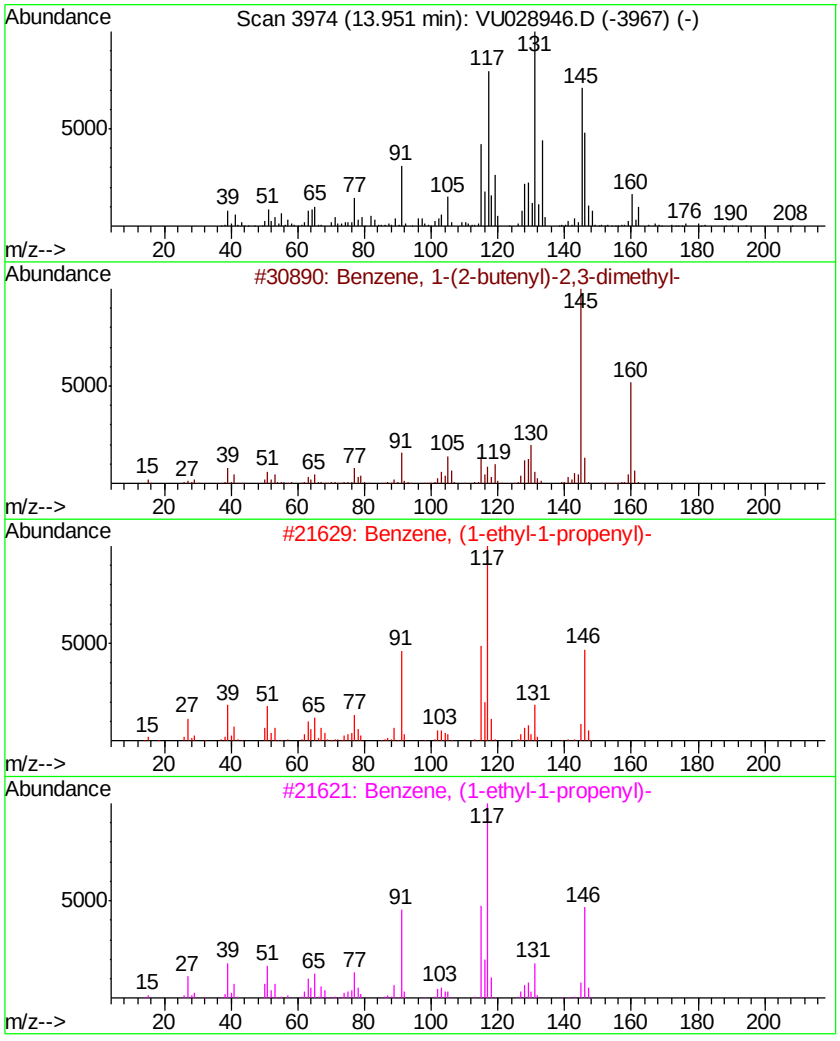
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

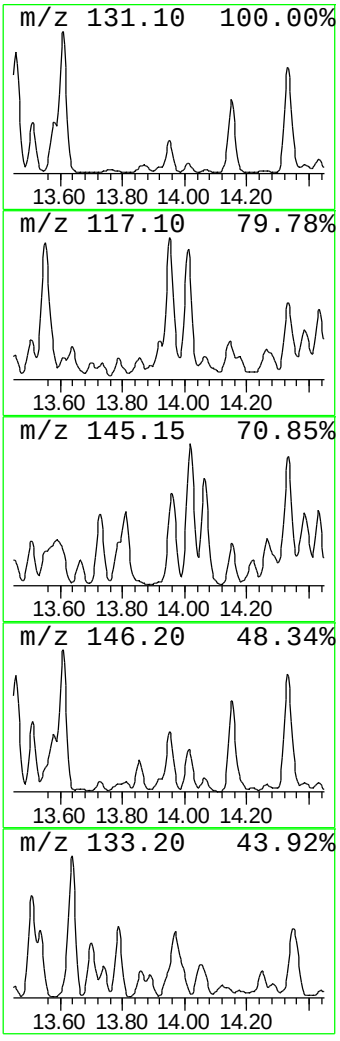
****

Peak Number 53 Benzene, 1-(2-butenyl)-2,3-... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.95	60.85 ug/L	1169390	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-(2-butenyl)-2,3-dimet...	160	C12H16	054340-85-1	59
2	Benzene, (1-ethyl-1-propenyl)-	146	C11H14	004701-36-4	42
3	Benzene, (1-ethyl-1-propenyl)-	146	C11H14	004701-36-4	42
4	2-Propenal, 2-methyl-3-phenyl-	146	C10H10O	000101-39-3	38
5	1H-Indene-4-carboxaldehyde, 2,3-...	146	C10H10O	051932-70-8	38





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU122418\
Data File : VU028946.D
Acq On : 24 Dec 2018 14:42
Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

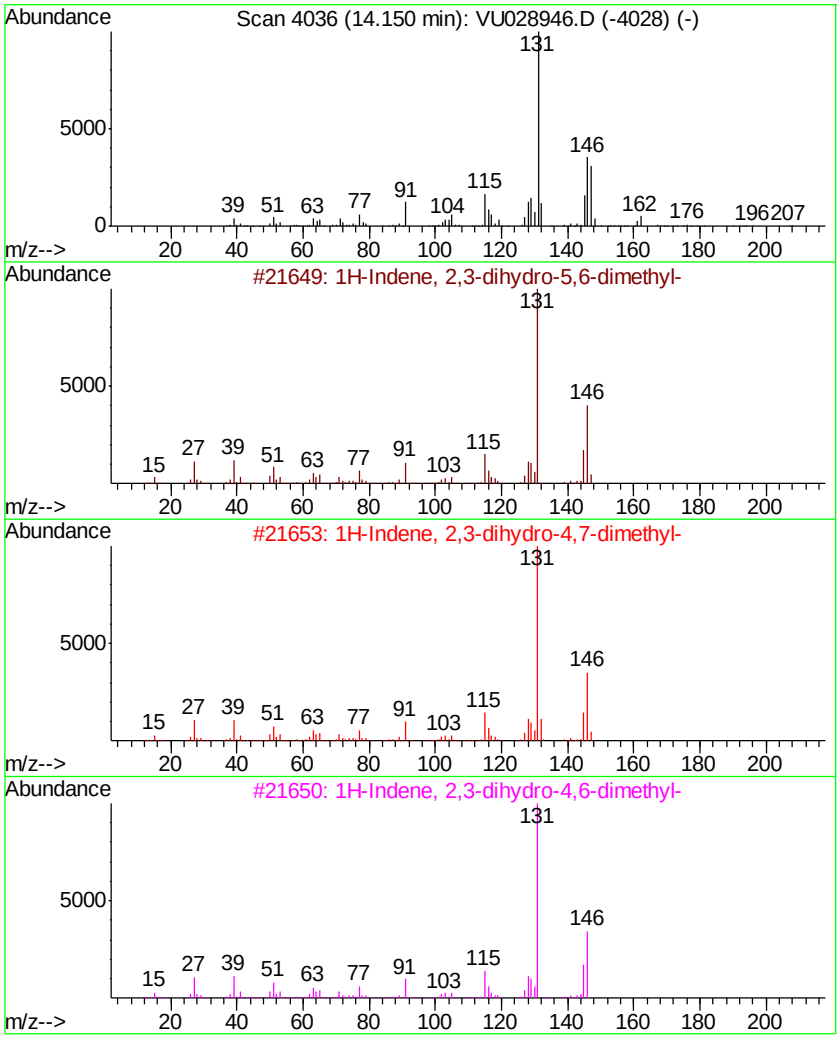
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis

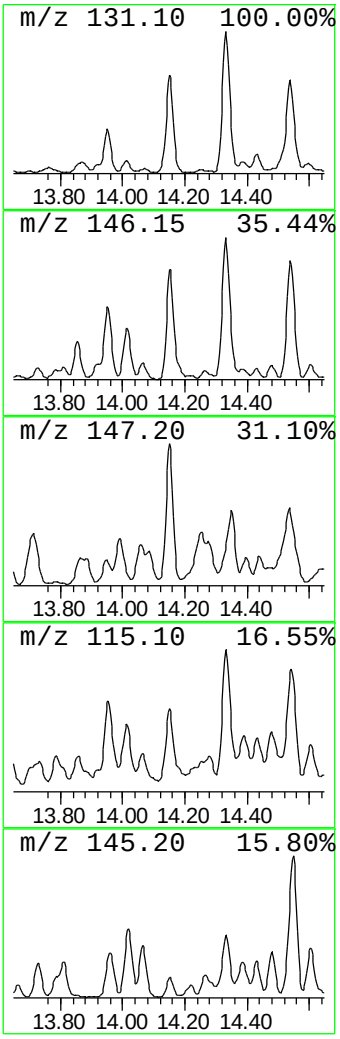
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 54 1H-Indene, 2,3-dihydro-5,6-... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.15	67.66 ug/L	1300390	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-5,6-dimet...	146	C11H14	001075-22-5	94
2	1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	94
3	1H-Indene, 2,3-dihydro-4,6-dimet...	146	C11H14	001685-82-1	93
4	Benzene, (1,2-dimethyl-1-propenyl)-	146	C11H14	000769-57-3	93
5	1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	91





Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU122418\
Data File : VU028946.D
Acq On : 24 Dec 2018 14:42
Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

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

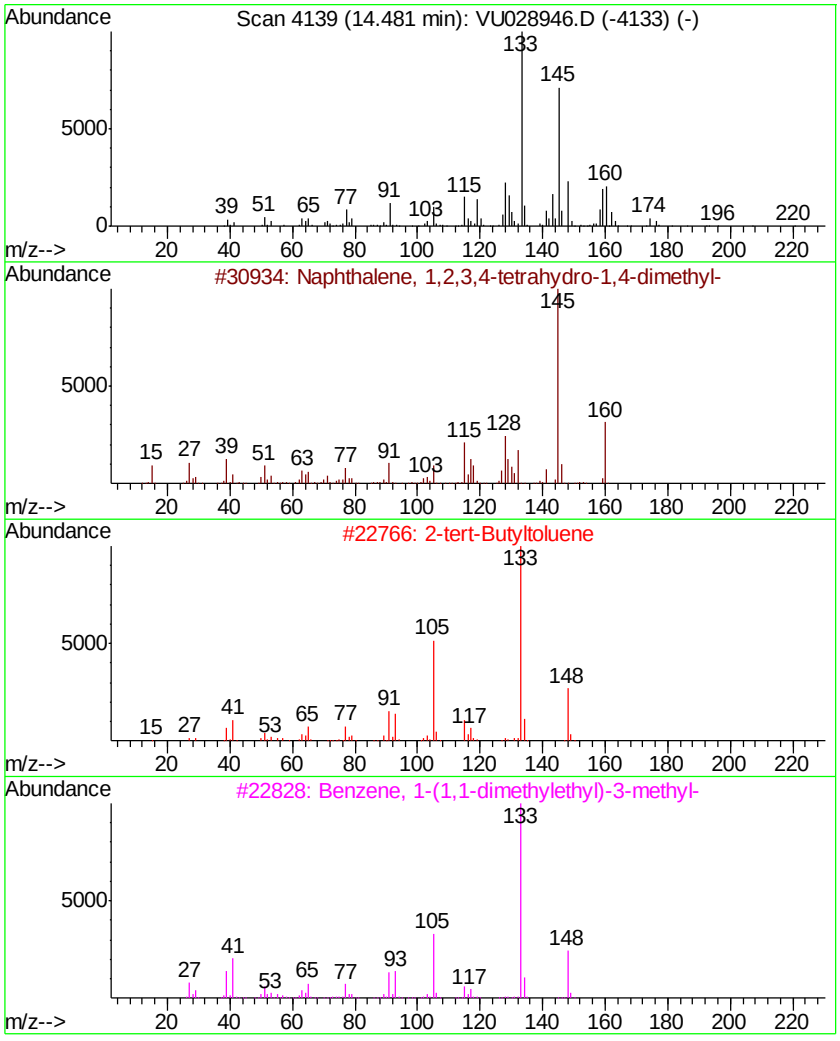
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

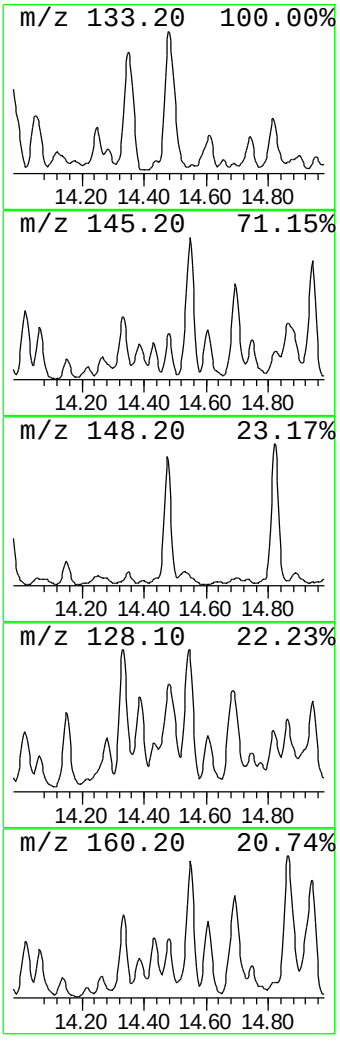
****

Peak Number 56 Naphthalene, 1,2,3,4-tetrah... Concentration Rank 54

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.48	28.49 ug/L	547479	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetrahydro-...	160	C12H16	004175-54-6	51
2	2-tert-Butyltoluene	148	C11H16	001074-92-6	46
3	Benzene, 1-(1,1-dimethylethyl)-3...	148	C11H16	001075-38-3	38
4	Benzene, 1-(1,1-dimethylethyl)-3...	148	C11H16	001075-38-3	38
5	4-tert-Butyltoluene	148	C11H16	000098-51-1	38





Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU122418\
Data File : VU028946.D
Acq On : 24 Dec 2018 14:42
Operator : MD/SY
Sample : J6489-08
Misc : 5.05g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 16 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9F76

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: Str...	5.20	22.5	ug/L	250850	1	5.88	557369	50.0
(DEL) Alkane: Cyc...	5.61	22.8	ug/L	253644	1	5.88	557369	50.0
(DEL) Alkane: Cyc...	6.63	23.0	ug/L	256256	1	5.88	557369	50.0
(DEL) Alkane: Cyc...	6.90	20.6	ug/L	229255	1	5.88	557369	50.0
(DEL) Alkane: Str...	7.17	22.2	ug/L	247800	1	5.88	557369	50.0
Cyclohexene, 1-me...	7.42	23.9	ug/L	266984	1	5.88	557369	50.0
(DEL) Alkane: Cyc...	7.91	37.2	ug/L	484830	2	9.09	651208	50.0
Decyl trifluoroac...	8.48	21.9	ug/L	284604	2	9.09	651208	50.0
(DEL) Alkane: Cyc...	8.54	33.8	ug/L	439548	2	9.09	651208	50.0
(DEL) Alkane: Cyc...	8.60	32.4	ug/L	422086	2	9.09	651208	50.0
(DEL) Alkane: Cyc...	8.75	32.5	ug/L	422575	2	9.09	651208	50.0
(DEL) Alkane: Cyc...	8.85	21.0	ug/L	273362	2	9.09	651208	50.0
(DEL) Alkane: Str...	8.91	25.2	ug/L	328372	2	9.09	651208	50.0
(DEL) Alkane: Str...	9.03	47.3	ug/L	616323	2	9.09	651208	50.0
(DEL) Alkane: Cyc...	9.45	29.5	ug/L	384517	2	9.09	651208	50.0
(DEL) Alkane: Cyc...	9.72	44.5	ug/L	578886	2	9.09	651208	50.0
(DEL) Alkane: Str...	9.95	94.9	ug/L	1235590	2	9.09	651208	50.0
Cyclohexanone, 2,...	10.04	54.6	ug/L	710550	2	9.09	651208	50.0
(DEL) Alkane: Str...	10.09	31.8	ug/L	413515	2	9.09	651208	50.0
(DEL) Alkane: Str...	10.32	28.4	ug/L	546140	3	11.48	960919	50.0
(DEL) Alkane: Cyc...	10.49	23.3	ug/L	447275	3	11.48	960919	50.0
Benzene, 1-ethyl-...	10.71	34.6	ug/L	665164	3	11.48	960919	50.0
(DEL) Alkane: Cyc...	10.75	30.3	ug/L	582030	3	11.48	960919	50.0
unknown-01	10.93	20.3	ug/L	389377	3	11.48	960919	50.0
Benzene, 1,2,4-tr...	10.97	17.2	ug/L	331091	3	11.48	960919	50.0
(DEL) Alkane: Str...	11.12	28.9	ug/L	554716	3	11.48	960919	50.0
Benzene, 1,2,3-tr...	11.15	20.6	ug/L	395175	3	11.48	960919	50.0
(DEL) Alkane: Str...	11.33	23.8	ug/L	457071	3	11.48	960919	50.0
(DEL) Alkane: Cyc...	11.40	31.6	ug/L	608030	3	11.48	960919	50.0
Benzene, 1,2-diet...	11.77	56.3	ug/L	1081290	3	11.48	960919	50.0
Benzene, 2-ethyl-...	12.15	32.6	ug/L	625977	3	11.48	960919	50.0
Benzene, 1-ethyl-...	12.25	57.7	ug/L	1109730	3	11.48	960919	50.0
unknown-02	12.29	27.6	ug/L	530782	3	11.48	960919	50.0
Indan, 1-methyl-	12.36	79.6	ug/L	1529660	3	11.48	960919	50.0
Naphthalene, deca...	12.50	50.9	ug/L	977363	3	11.48	960919	50.0
(DEL) Alkane: Cyc...	12.61	50.7	ug/L	974295	3	11.48	960919	50.0
Benzene, 1,2,4,5-...	12.65	41.8	ug/L	802340	3	11.48	960919	50.0
Benzene, 1,2,3,5-...	12.70	115.5	ug/L	2219430	3	11.48	960919	50.0
Benzene, 2-butenyl-	12.96	62.0	ug/L	1191110	3	11.48	960919	50.0
2-Methyl-7-endo-v...	13.03	21.6	ug/L	414723	3	11.48	960919	50.0
Benzene, 1-methyl...	13.08	25.4	ug/L	488354	3	11.48	960919	50.0
o-Cymene	13.12	130.3	ug/L	2504220	3	11.48	960919	50.0
Benzene, (1,1-dim...	13.24	17.5	ug/L	335874	3	11.48	960919	50.0
(DEL) Alkane: Str...	13.28	35.2	ug/L	676093	3	11.48	960919	50.0
Benzene, (1-methy...	13.40	37.5	ug/L	720267	3	11.48	960919	50.0
Benzene, (3-methy...	13.46	75.2	ug/L	1444390	3	11.48	960919	50.0
1H-Indene, 2,3-di...	13.51	64.2	ug/L	1234370	3	11.48	960919	50.0
1H-Indene, 2,3-di...	13.61	46.2	ug/L	888341	3	11.48	960919	50.0
Benzene, 1-ethyl-...	13.79	48.3	ug/L	927569	3	11.48	960919	50.0

Benzene, 1-(2-but...	13.95	60.9	ug/L	1169390	3	11.48	960919	50.0
1H-Indene, 2,3-di...	14.15	67.7	ug/L	1300390	3	11.48	960919	50.0
Naphthalene, 1,2,...	14.48	28.5	ug/L	547479	3	11.48	960919	50.0

Instrument :
MSVOA_U
ClientSampleId :
F9F76