LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU060619\
Data File : VU032492.D
Acq On : 06 Jun 2019 13:21
Operator : JC/SP
Sample : K3213-09
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J9

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\SOMULM060619WMA.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	1.180	23	28	35	rBV2	10918	10671	0.13%	0.036%
2	1.396	86	95	106	rBV	87654	102952	1.25%	0.351%
3	1.469	112	118	125	rBV	15816	16733	0.20%	0.057%
4	1.675	174	182	199	rVB	68692	89511	1.09%	0.305%
5	2.177	333	338	346	rBV6	2526	3961	0.05%	0.014%
6	2.267	349	366	378	rVB2	151290	293480	3.57%	1.000%
7	2.444	414	421	428	rBV4	1077	1915	0.02%	0.007%
8	2.820	525	538	561	rVB2	22076	49256	0.60%	0.168%
9	2.981	579	588	599	rVB5	5090	9053	0.11%	0.031%
10	3.177	635	649	670	rBV	46845	102677	1.25%	0.350%
11	3.437	722	730	743	rBV4	2017	4917	0.06%	0.017%
12	3.569	759	771	784	rVV7	3046	8186	0.10%	0.028%
13	3.977	878	898	927	rBV	343324	872861	10.62%	2.975%
14	4.170	946	958	989	rVB	82514	212049	2.58%	0.723%
15	4.640	1089	1104	1131	rVB	119136	282934	3.44%	0.964%
16	4.871	1172	1176	1179	rBV4	646	668	0.01%	0.002%
17	4.990	1204	1213	1214	rBV4	898	1057	0.01%	0.004%
18	5.334	1297	1320	1332	rBV2	248428	742924	9.04%	2.532%
19	5.591	1394	1400	1402	rBV2	556	560	0.01%	0.002%
20	5.746	1443	1448	1451	rBV2	309	380	0.00%	0.001%
21	5.836	1472	1476	1477	rVV2	1003	656	0.01%	0.002%
22	5.881	1477	1490	1521	rVV	255918	505381	6.15%	1.723%
23	6.173	1574	1581	1586	rBV3	1991	2902	0.04%	0.010%
24	6.235	1596	1600	1612	rVB3	4110	7239	0.09%	0.025%
25	6.325	1615	1628	1644	rBV2	164164	326998	3.98%	1.115%
26	6.537	1687	1694	1695	rBV2	677	766	0.01%	0.003%
27	6.579	1705	1707	1714	rVB4	932	736	0.01%	0.003%
28	6.624	1715	1721	1732	rVB5	1095	2025	0.02%	0.007%
29	6.878	1796	1800	1804	rBV3	460	433	0.01%	0.001%
30	7.222	1895	1907	1929	rBV	95710	175903	2.14%	0.600%
31	7.366	1943	1952	1968	rBV2	7237	13691	0.17%	0.047%
32	7.559	1992	2012	2045	rBV	352200	634468	7.72%	2.163%
33	7.845	2091	2101	2124	rVB	66150	116557	1.42%	0.397%
34	8.016	2148	2154	2155	rBV4	767	619	0.01%	0.002%

LSC Area Percent Report

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Acq On : 06 Jun 2019 13:21
Operator : JC/SP
Sample : K3213-09
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J9

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\SOMULM060619WMA.M
Title : VOC Analysis

35	8.096	2173	2179	2184	rBV2	1392	1677	0.02%	0.006%
36	8.157	2192	2198	2199	rBV2	1083	975	0.01%	0.003%
37	8.193	2207	2209	2213	rVB2	767	447	0.01%	0.002%
38	8.225	2213	2219	2224	rBV6	891	1019	0.01%	0.003%
39	8.305	2230	2244	2287	rBV	430900	751401	9.14%	2.561%
40	8.572	2319	2327	2340	rVB	12787	21207	0.26%	0.072%
41	8.675	2350	2359	2364	rBV4	2470	3195	0.04%	0.011%
42	8.781	2379	2392	2402	rBV4	3863	7347	0.09%	0.025%
43	8.948	2435	2444	2451	rBV3	2083	3051	0.04%	0.010%
44	9.083	2463	2486	2505	rBV	376814	696524	8.47%	2.374%
45	9.292	2538	2551	2559	rBV	19728	33268	0.40%	0.113%
46	9.373	2560	2576	2604	rVB2	482170	974867	11.86%	3.323%
47	9.559	2625	2634	2645	rBV3	9271	15480	0.19%	0.053%
48	9.633	2646	2657	2668	rVB2	10995	18329	0.22%	0.062%
49	9.797	2694	2708	2722	rVV2	8065	15954	0.19%	0.054%
50	9.894	2730	2738	2744	rBV6	1825	2916	0.04%	0.010%
51	9.961	2749	2759	2760	rBV6	1450	2196	0.03%	0.007%
52	10.035	2770	2782	2790	rBV8	6046	12532	0.15%	0.043%
53	10.157	2808	2820	2837	rVB3	13276	26018	0.32%	0.089%
54	10.305	2856	2866	2879	rBV6	15123	28733	0.35%	0.098%
55	10.392	2880	2893	2901	rBV	982026	1621647	19.73%	5.528%
56	10.543	2931	2940	2945	rBV2	10323	17072	0.21%	0.058%
57	10.643	2963	2971	2983	rVB2	32545	54456	0.66%	0.186%
58	10.736	2992	3000	3006	rBV	30820	46222	0.56%	0.158%
59	10.781	3006	3014	3024	rVB	160111	242491	2.95%	0.827%
60	10.897	3046	3050	3051	rBV3	814	601	0.01%	0.002%
61	11.096	3093	3112	3119	rBV3	7992	18404	0.22%	0.063%
62	11.212	3137	3148	3157	rBV4	16240	32037	0.39%	0.109%
63	11.402	3197	3207	3221	rBV	171388	294601	3.58%	1.004%
64	11.479	3222	3231	3237	rVV	446153	699403	8.51%	2.384%
65	11.530	3237	3247	3268	rVB	5457544	8218746	100.00%	28.015%
66	11.627	3269	3277	3297	rBV2	83383	148009	1.80%	0.505%
67	11.723	3297	3307	3315	rBV	317757	498288	6.06%	1.699%
68	11.855	3337	3348	3357	rBV	396263	640920	7.80%	2.185%
69	11.916	3358	3367	3380	rVB	714786	1134358	13.80%	3.867%
70	12.125	3423	3432	3446	rVB6	34358	75030	0.91%	0.256%
71	12.215	3455	3460	3463	rBV6	7901	9155	0.11%	0.031%

LSC Area Percent Report

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Sample : K3213-09
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J9

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\SOMULM060619WMA.M
Title : VOC Analysis

72	12.254	3464	3472	3482	rVB3	81995	127680	1.55%	0.435%
73	12.315	3484	3491	3497	rBV2	33799	52246	0.64%	0.178%
74	12.408	3512	3520	3537	rVB3	114051	300827	3.66%	1.025%
75	12.508	3538	3551	3573	rVB3	187839	473992	5.77%	1.616%
76	12.617	3574	3585	3593	rBV2	78998	143659	1.75%	0.490%
77	12.691	3599	3608	3621	rVB	566016	891938	10.85%	3.040%
78	12.781	3622	3636	3652	rBV	552756	890659	10.84%	3.036%
79	13.000	3696	3704	3713	rBV	89327	143273	1.74%	0.488%
80	13.119	3734	3741	3748	rBV3	100511	138370	1.68%	0.472%
81	13.167	3749	3756	3764	rVB	118388	161479	1.96%	0.550%
82	13.344	3800	3811	3821	rBV3	140136	243642	2.96%	0.831%
83	13.414	3823	3833	3845	rVB2	227698	436055	5.31%	1.486%
84	13.543	3868	3873	3886	rVB	31155	46373	0.56%	0.158%
85	13.646	3893	3905	3926	rBV	951228	1624700	19.77%	5.538%
86	13.974	3998	4007	4017	rBV	217764	345776	4.21%	1.179%
87	14.032	4017	4025	4031	rBV	175665	290486	3.53%	0.990%
88	14.112	4044	4050	4067	rVB	54946	91739	1.12%	0.313%
89	14.254	4086	4094	4103	rBV	195050	283558	3.45%	0.967%
90	14.430	4139	4149	4166	rVB3	221619	392356	4.77%	1.337%
91	14.835	4267	4275	4286	rVB	362741	535946	6.52%	1.827%
92	15.019	4322	4332	4339	rBV6	127320	243733	2.97%	0.831%
93	15.305	4416	4421	4442	rVB	72062	147516	1.79%	0.503%
94	15.405	4443	4452	4460	rBV	15482	28321	0.34%	0.097%
95	15.459	4462	4469	4481	rVB5	20052	39573	0.48%	0.135%
96	15.852	4583	4591	4615	rVB8	30040	75679	0.92%	0.258%
97	16.038	4640	4649	4662	rBV6	28374	57642	0.70%	0.196%
98	16.488	4782	4789	4804	rVB3	25961	43013	0.52%	0.147%
99	16.671	4837	4846	4861	rBV2	51440	90567	1.10%	0.309%
100	16.903	4912	4918	4931	rVB2	18907	32247	0.39%	0.110%

Sum of corrected areas: 29336740

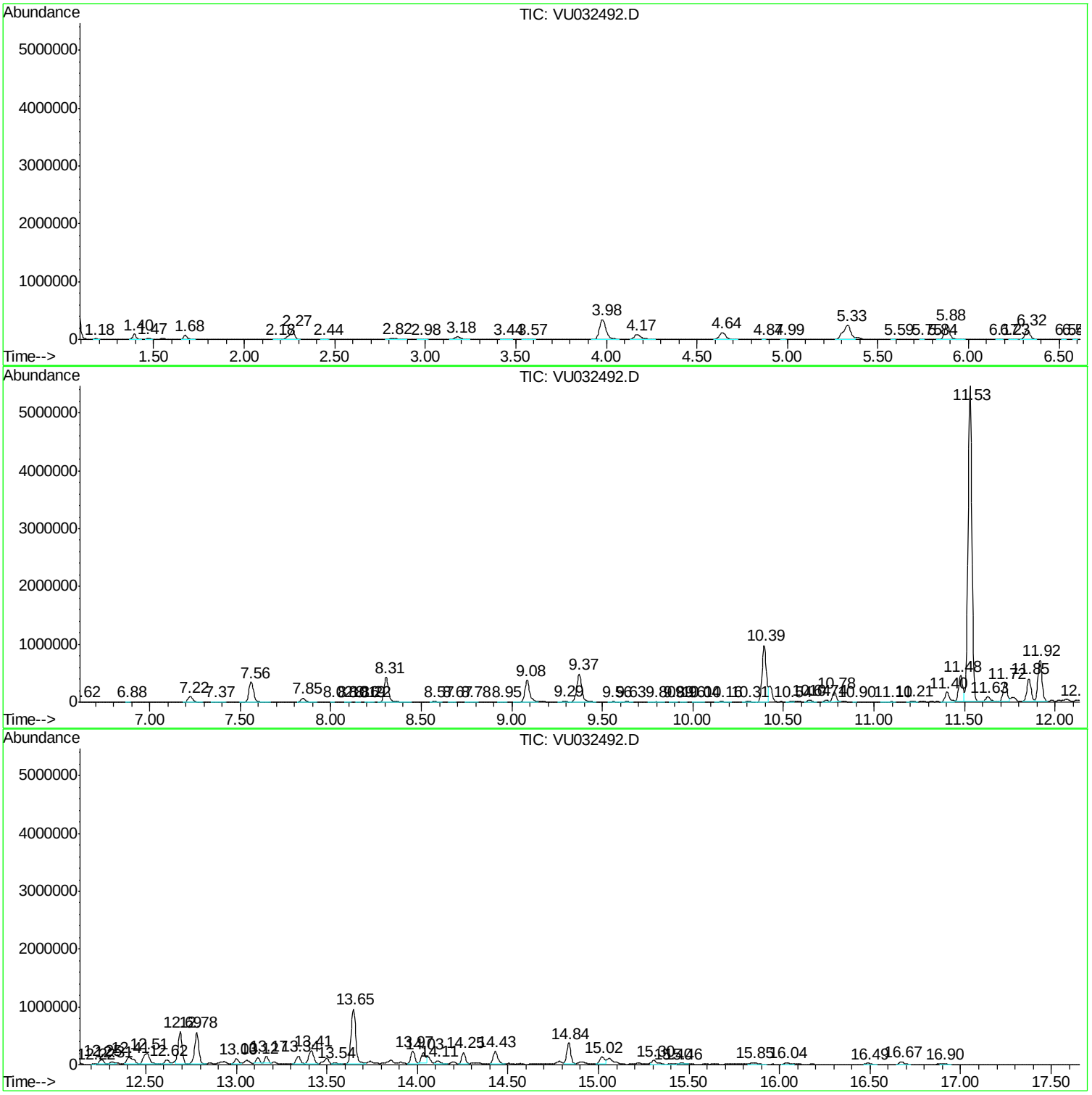
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032492.D
Acq On : 06 Jun 2019 13:21
Operator : JC/SP
Sample : K3213-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.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\VU060619\
Data File : VU032492.D
Acq On : 06 Jun 2019 13:21
Operator : JC/SP
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Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

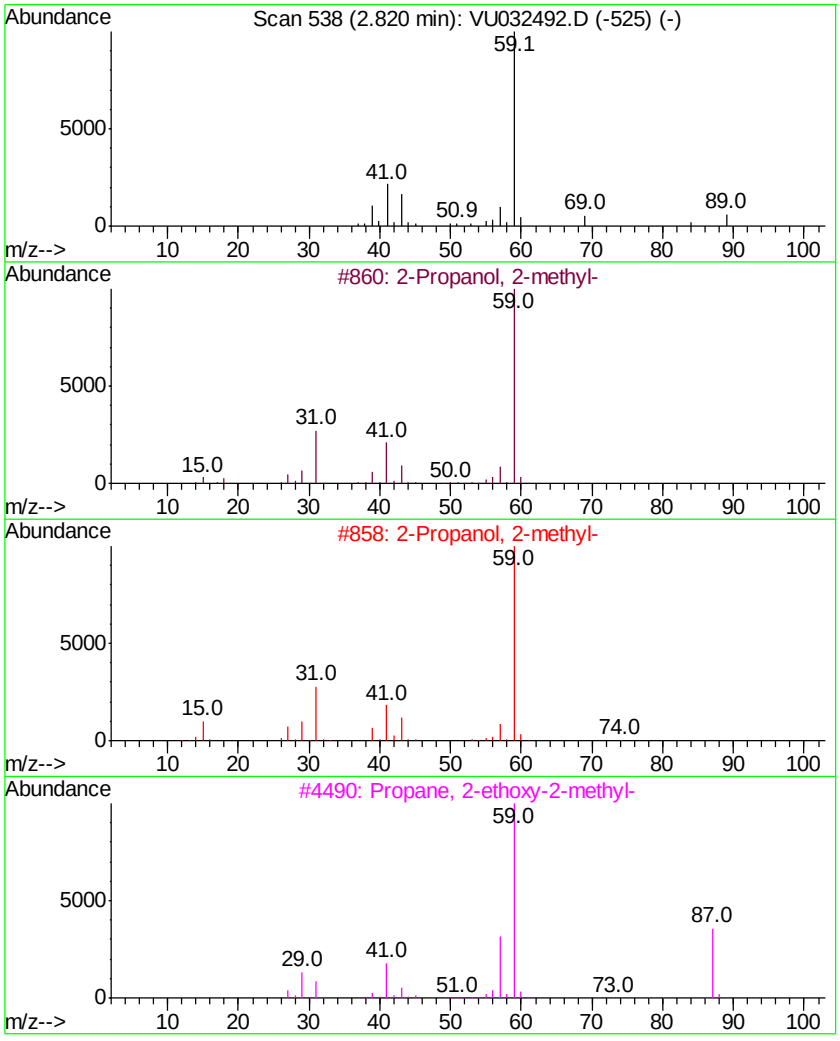
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

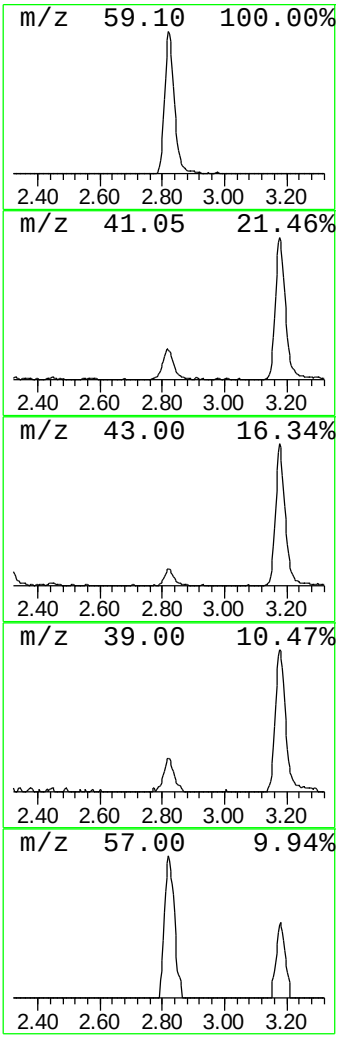
****

Peak Number 1 2-Propanol, 2-methyl- Concentration Rank 34

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.82	4.87 ug/L	49256	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanol, 2-methyl-	74	C4H10O	000075-65-0	56
2	2-Propanol, 2-methyl-	74	C4H10O	000075-65-0	56
3	Propane, 2-ethoxy-2-methyl-	102	C6H14O	000637-92-3	50
4	2-Propanol, 2-methyl-	74	C4H10O	000075-65-0	50
5	2-Propanol, 2-methyl-	74	C4H10O	000075-65-0	45





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032492.D
Acq On : 06 Jun 2019 13:21
Operator : JC/SP
Sample : K3213-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

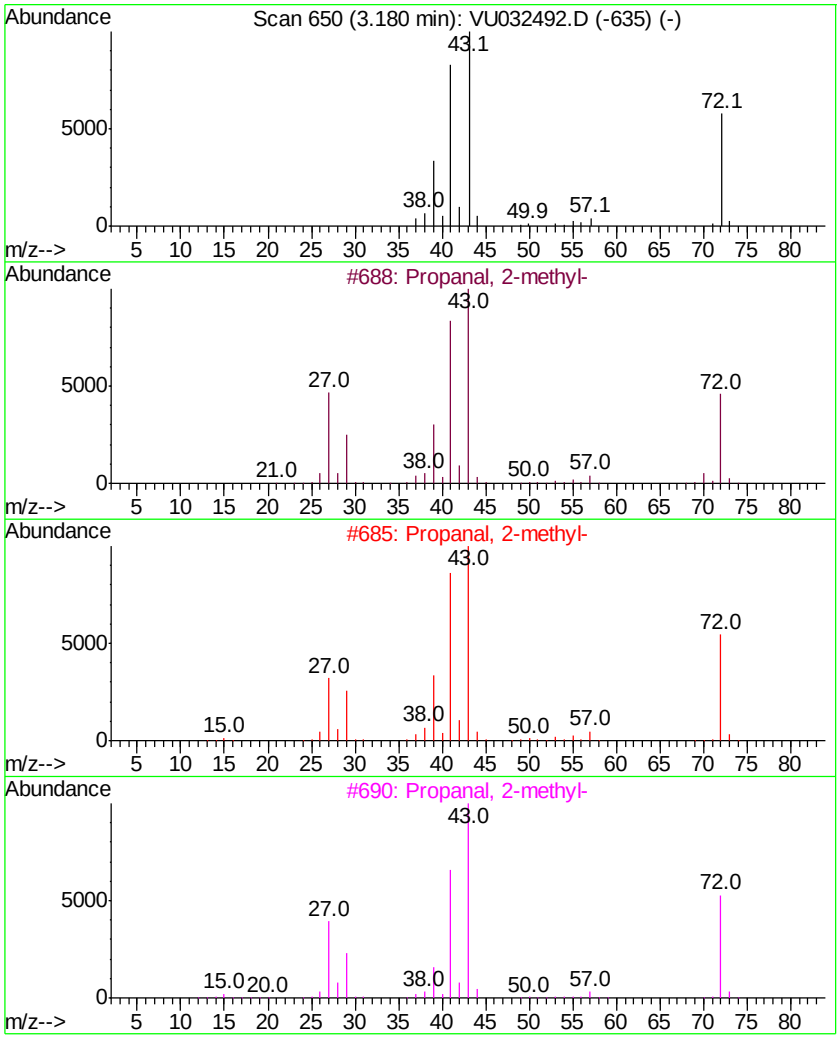
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

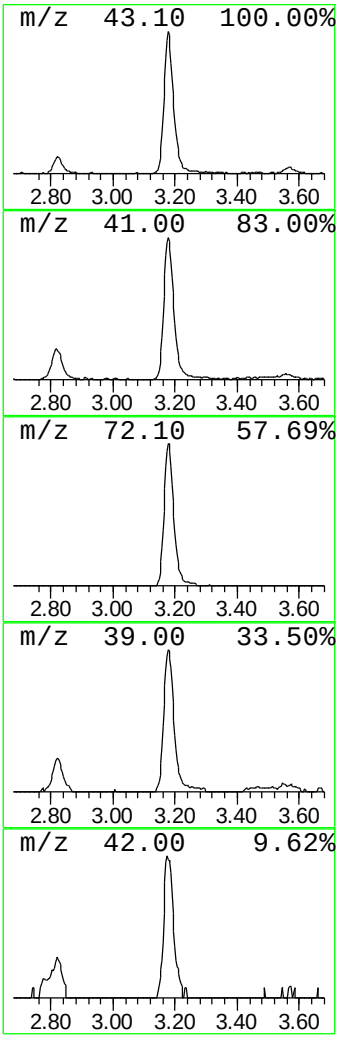
****

Peak Number 2 Propanal, 2-methyl- Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.18	10.16 ug/L	102677	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propanal, 2-methyl-	72	C4H8O	000078-84-2	91
2	Propanal, 2-methyl-	72	C4H8O	000078-84-2	91
3	Propanal, 2-methyl-	72	C4H8O	000078-84-2	78
4	Isobutylene epoxide	72	C4H8O	000558-30-5	53
5	Isobutylene epoxide	72	C4H8O	000558-30-5	53





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU060619\
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Acq On : 06 Jun 2019 13:21
Operator : JC/SP
Sample : K3213-09
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

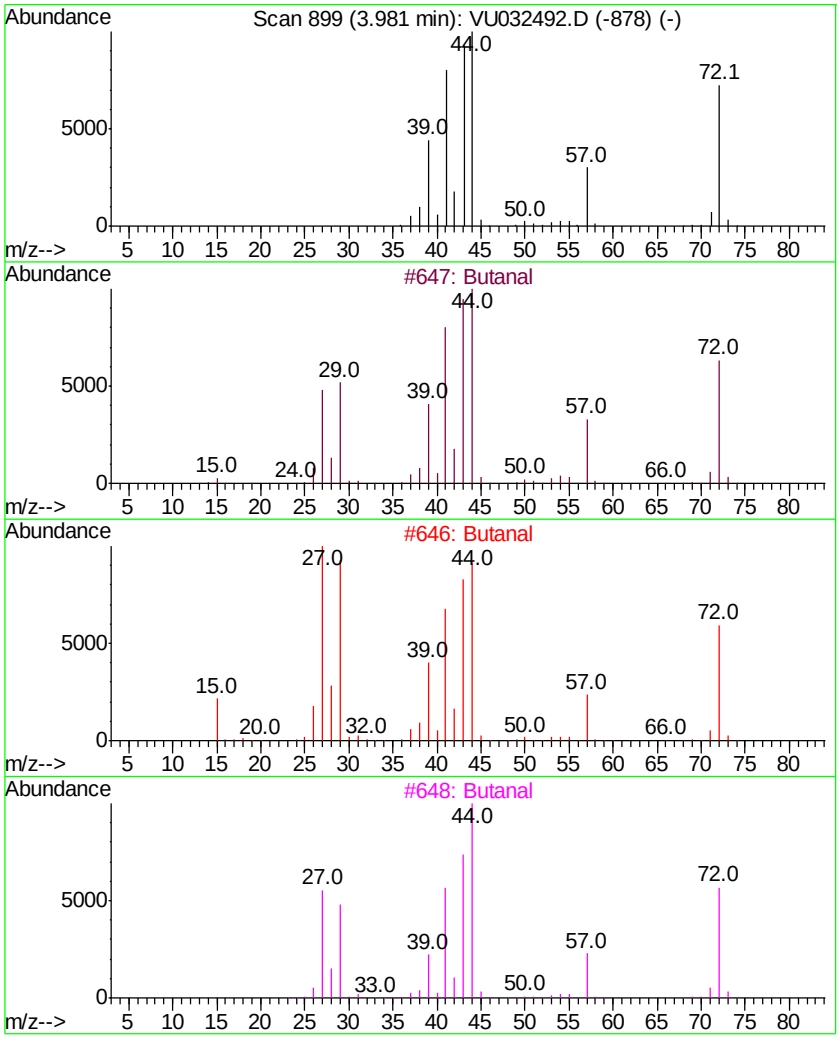
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

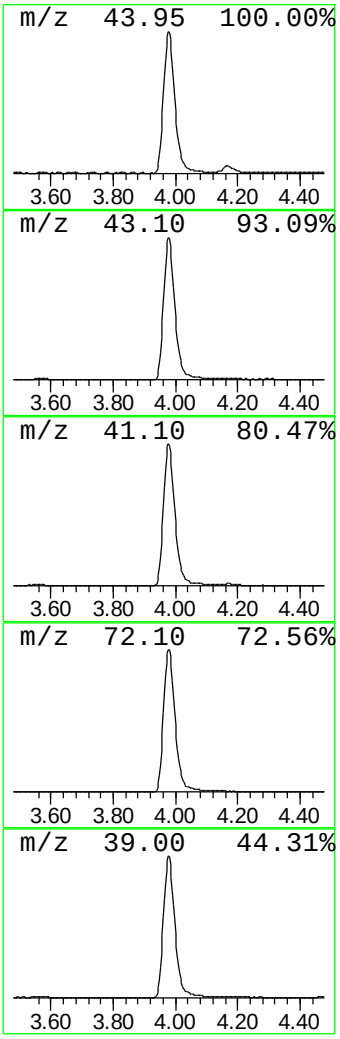
****

Peak Number 3 Butanal Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.98	86.36 ug/L	872861	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butanal	72	C4H8O	000123-72-8	94
2	Butanal	72	C4H8O	000123-72-8	91
3	Butanal	72	C4H8O	000123-72-8	74
4	Butanal	72	C4H8O	000123-72-8	72
5	Propanal, 2-methyl-	72	C4H8O	000078-84-2	52





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032492.D
Acq On : 06 Jun 2019 13:21
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Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

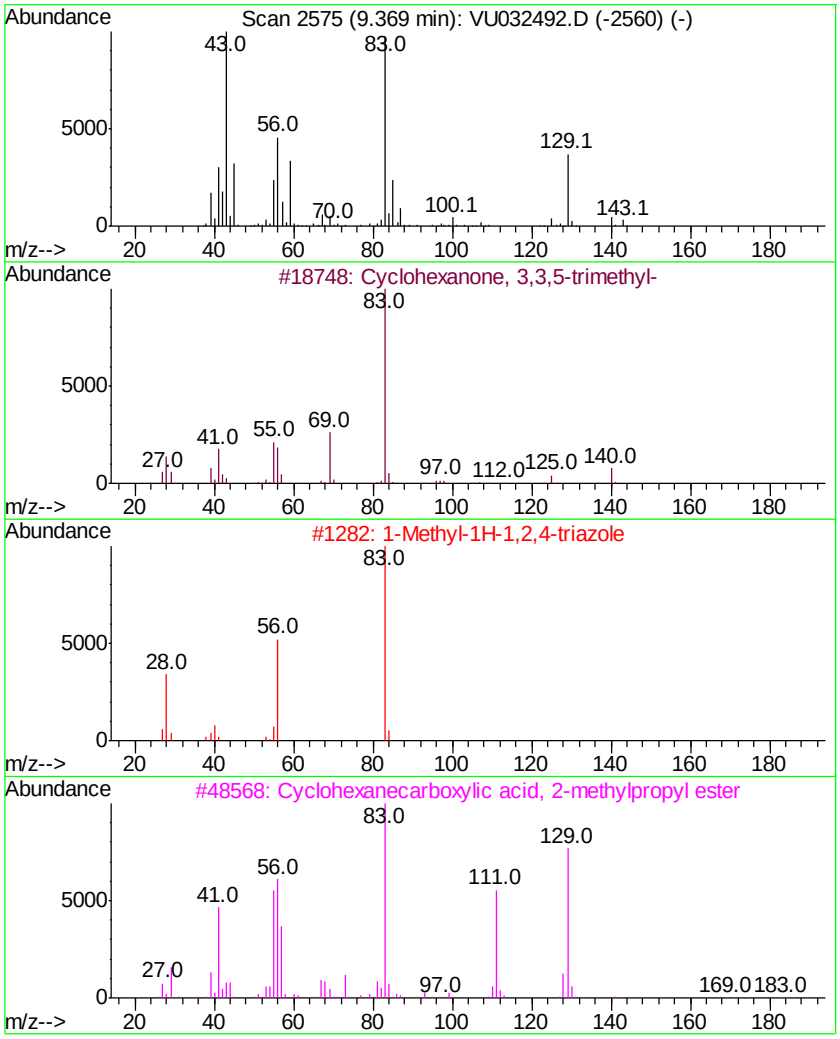
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

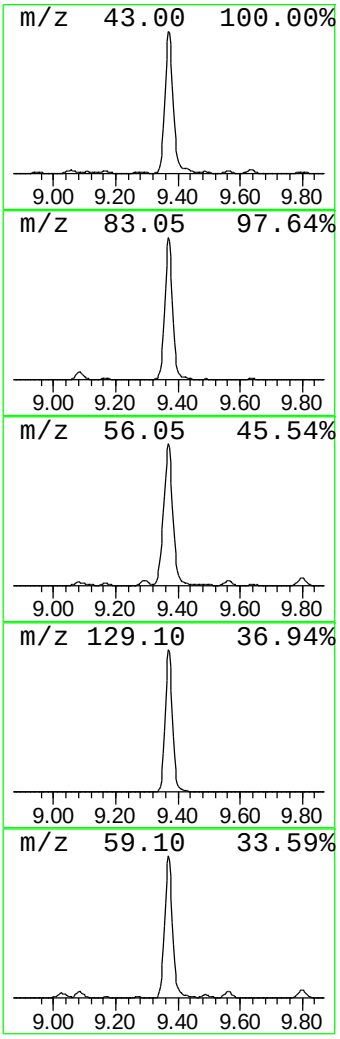
****

Peak Number 5 unknown-01 Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.37	69.98 ug/L	974867	Chlorobenzene-d5	9.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexanone, 3,3,5-trimethyl-	140	C9H16O	000873-94-9	35
2	1-Methyl-1H-1,2,4-triazole	83	C3H5N3	006086-21-1	32
3	Cyclohexanecarboxylic acid, 2-me...	184	C11H20O2	037139-85-8	28
4	1-Methyl-1H-1,2,4-triazole	83	C3H5N3	006086-21-1	25
5	1H-1,2,4-Triazole, 3-methyl-	83	C3H5N3	007170-01-6	23





Library Search Compound Report

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Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

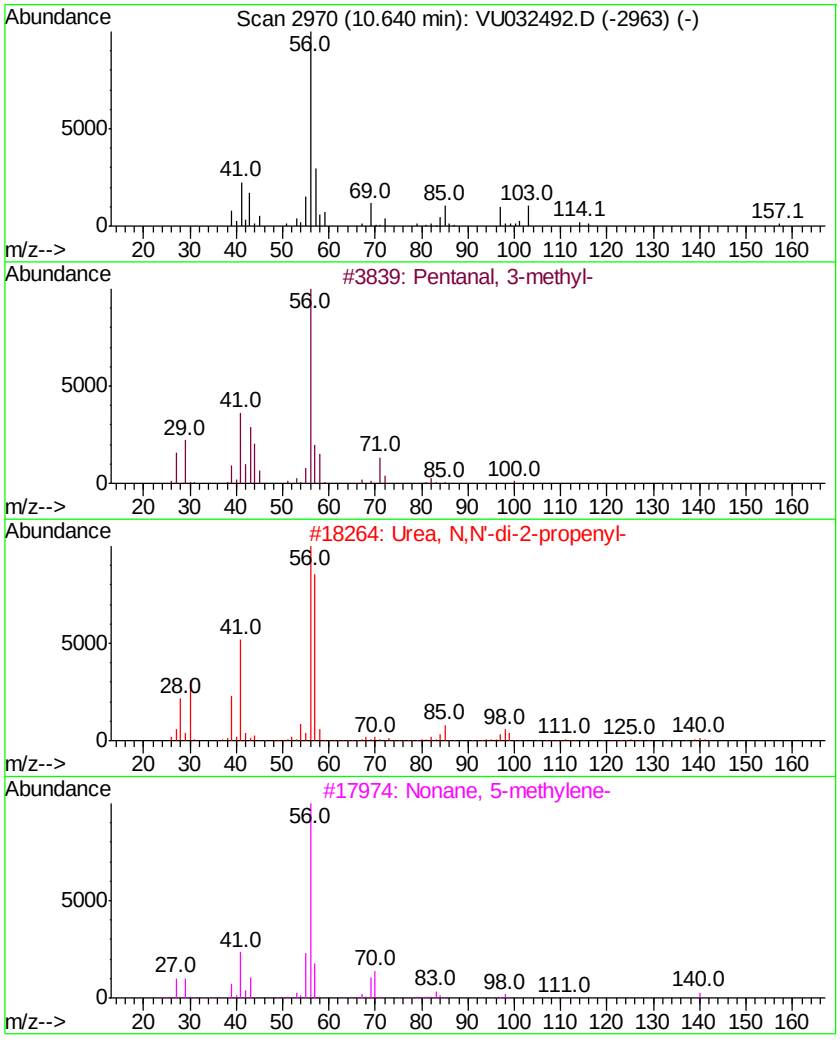
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

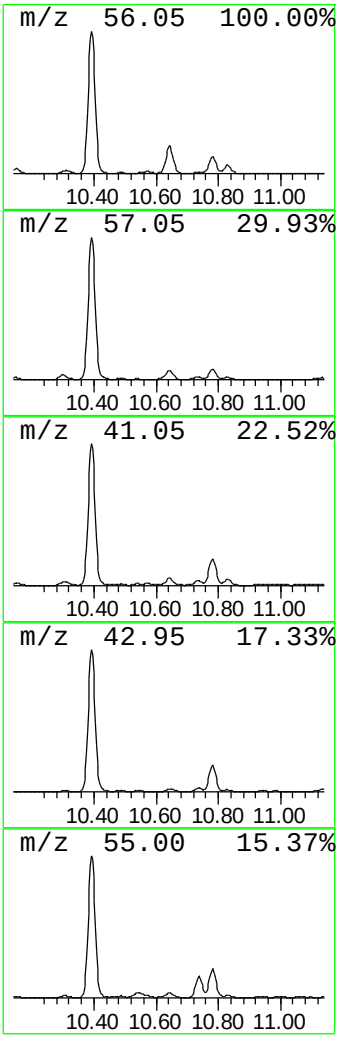
****

Peak Number 6 unknown-02 Concentration Rank 36

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.64	3.89 ug/L	54456	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentanal, 3-methyl-	100	C6H12O	015877-57-3	47
2	Urea, N,N'-di-2-propenyl-	140	C7H12N2O	001801-72-5	42
3	Nonane, 5-methylene-	140	C10H20	006795-79-5	40
4	1-Hexene, 2-methyl-	98	C7H14	006094-02-6	40
5	2,2-Dimethyl-1,3-butanediol	118	C6H14O2	000076-35-7	38





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Acq On : 06 Jun 2019 13:21
Operator : JC/SP
Sample : K3213-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

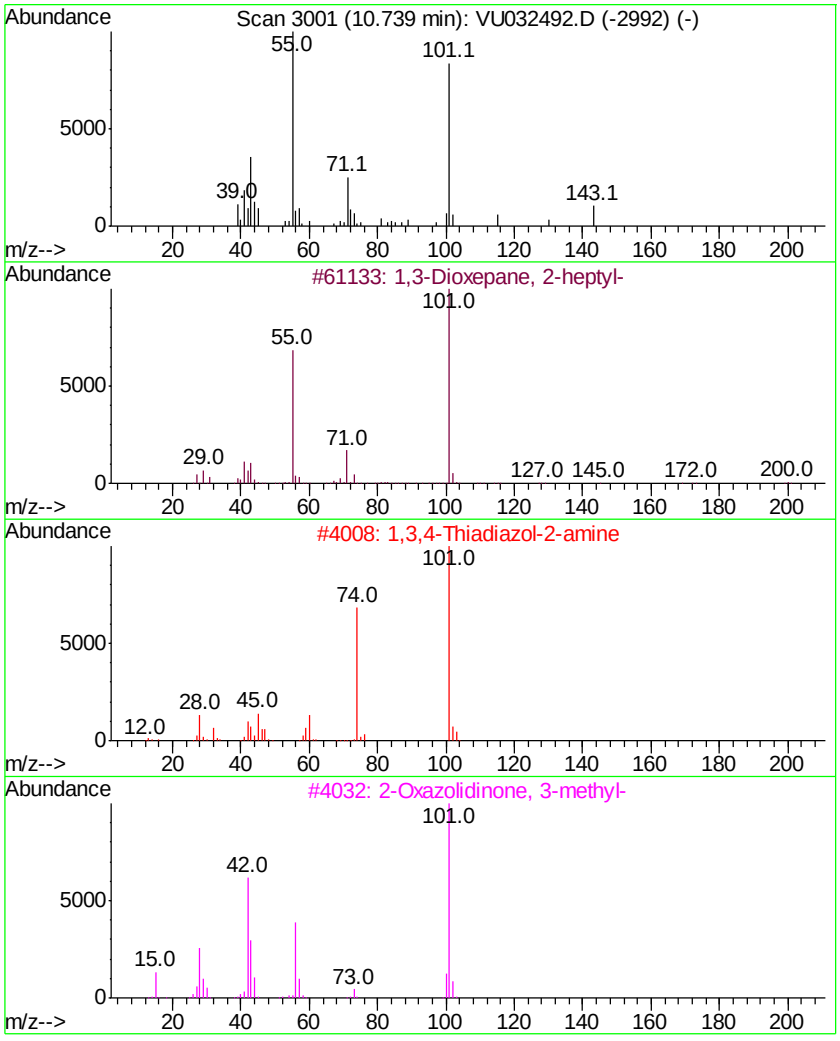
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

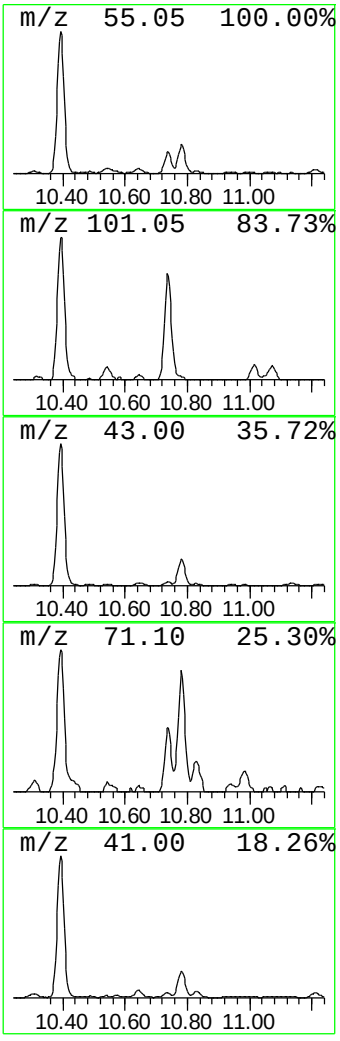
****

Peak Number 7 1,3-Dioxepane, 2-heptyl- Concentration Rank 39

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.74	3.30 ug/L	46222	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3-Dioxepane, 2-heptyl-	200	C12H24O2	061732-92-1	59
2	1,3,4-Thiadiazol-2-amine	101	C2H3N3S	004005-51-0	43
3	2-Oxazolidinone, 3-methyl-	101	C4H7NO2	019836-78-3	43
4	1,3-Dioxane, 2,4-dimethyl-	116	C6H12O2	000766-20-1	42
5	1,3-Dioxepane, 2-pentadecyl-	312	C20H40O2	041563-29-5	38





Library Search Compound Report

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Data File : VU032492.D
Acq On : 06 Jun 2019 13:21
Operator : JC/SP
Sample : K3213-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

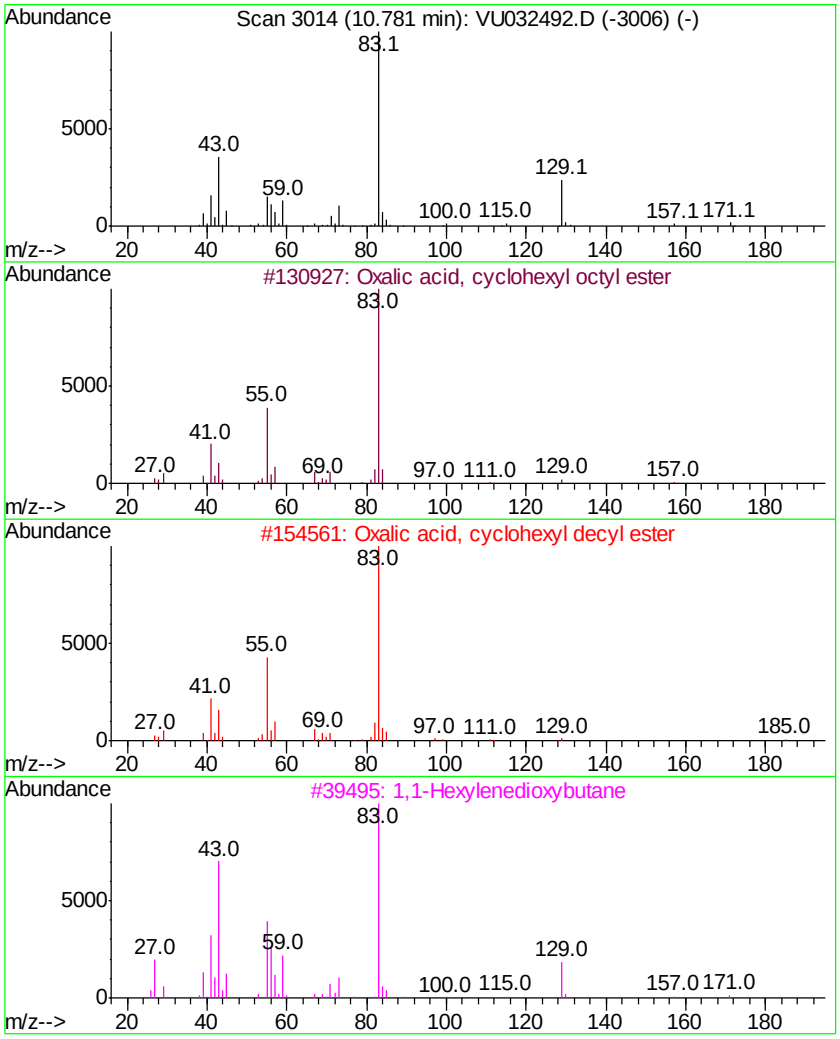
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

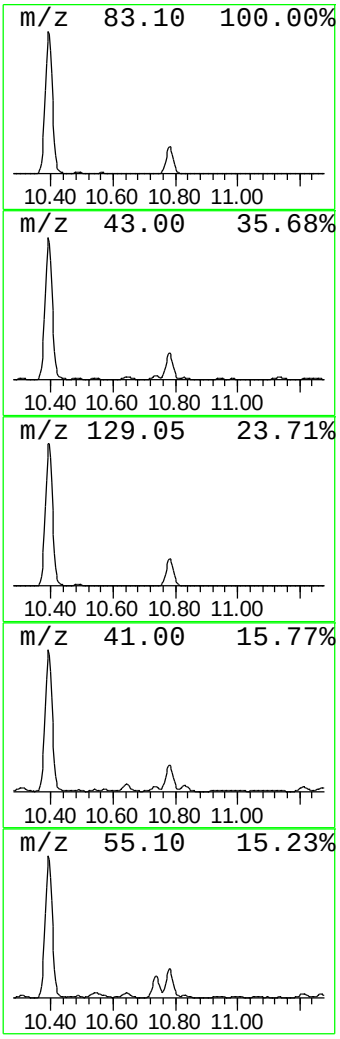
****

Peak Number 8 unknown-03 Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.78	17.34 ug/L	242491	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxalic acid, cyclohexyl octyl ester	284	C16H28O4	1000309-31-0	40
2	Oxalic acid, cyclohexyl decyl ester	312	C18H32O4	1000309-31-2	40
3	1,1-Hexylenedioxybutane	172	C10H20O2	1000249-77-4	40
4	Pentanoic acid, 2,4-dimethyl-4-n...	189	C8H15NO4	005762-40-3	38
5	Bis(2-ethylhexyl) hydrogen phosp...	306	C16H35O3P	003658-48-8	33





Library Search Compound Report

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Acq On : 06 Jun 2019 13:21
Operator : JC/SP
Sample : K3213-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

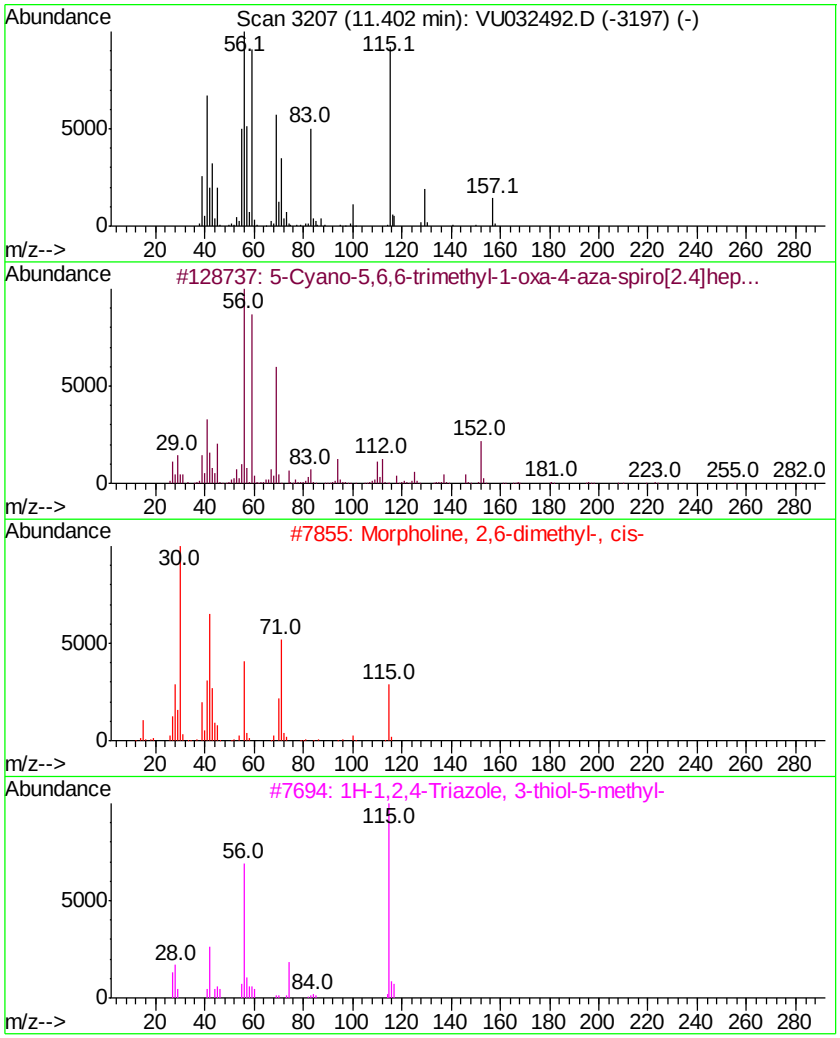
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

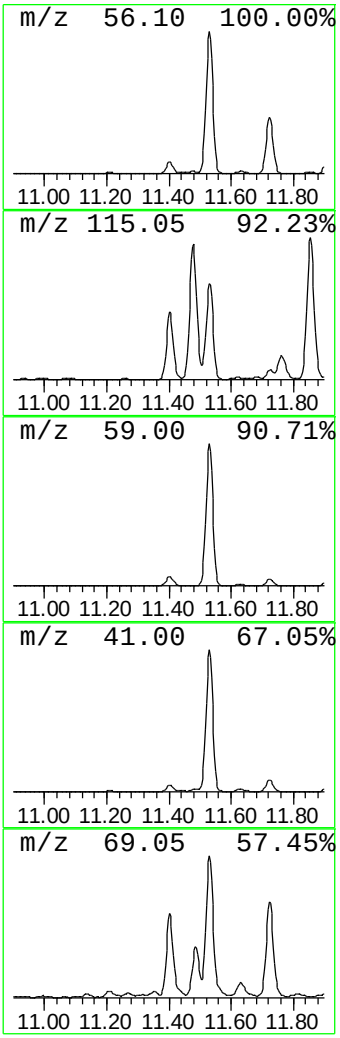
****

Peak Number 9 unknown-04 Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.40	21.06 ug/L	294601	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5-Cyano-5,6,6-trimethyl-1-oxa-4-...	282	C13H18N2O5	1000193-01-2	43
2	Morpholine, 2,6-dimethyl-, cis-	115	C6H13NO	006485-55-8	38
3	1H-1,2,4-Triazole, 3-thiol-5-met...	115	C3H5N3S	007271-44-5	27
4	3-Octanol	130	C8H18O	000589-98-0	22
5	3-Heptanol, 4-methyl-	130	C8H18O	014979-39-6	16





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Data File : VU032492.D
Acq On : 06 Jun 2019 13:21
Operator : JC/SP
Sample : K3213-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

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

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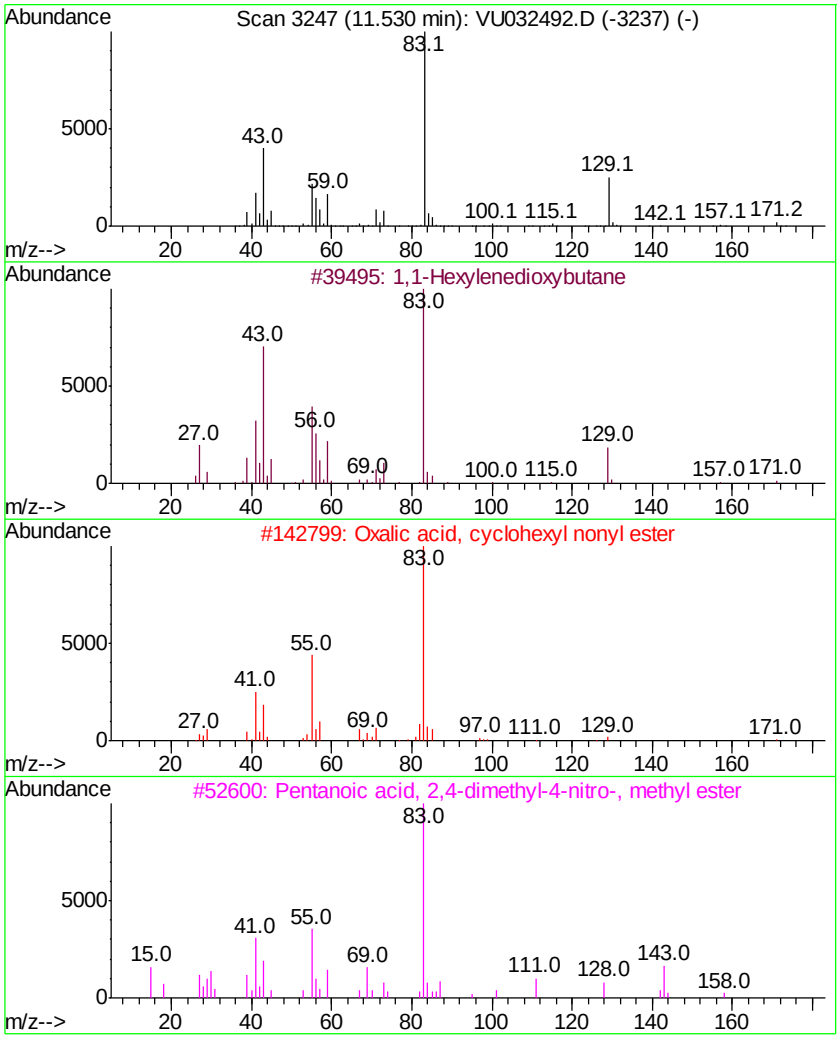
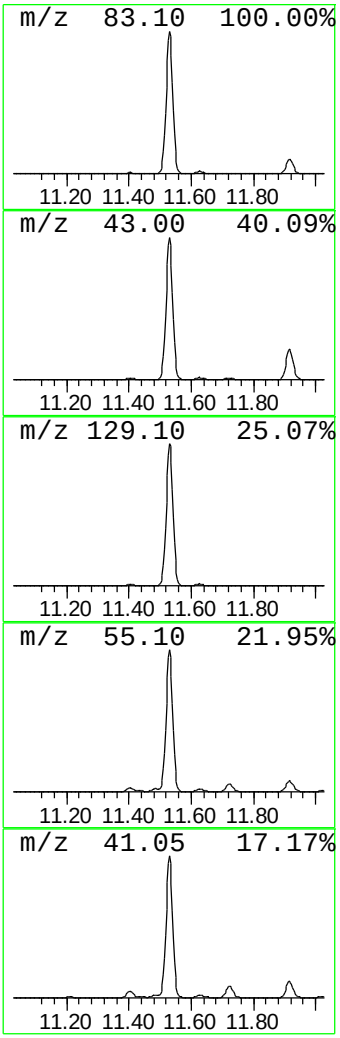
Peak Number 10 1,1-Hexylenedioxybutane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.53	587.55 ug/L	8218750	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1-Hexylenedioxybutane	172	C10H20O2	1000249-77-4	83
2	Oxalic acid, cyclohexyl nonyl ester	298	C17H30O4	1000309-31-1	40
3	Pentanoic acid, 2,4-dimethyl-4-n...	189	C8H15NO4	005762-40-3	38
4	5-Cyano-1,2,3-thiadiazole	111	C3HN3S	057352-02-0	36
5	Oxalic acid, cyclohexyl decyl ester	312	C18H32O4	1000309-31-2	33





Library Search Compound Report

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Data File : VU032492.D
Acq On : 06 Jun 2019 13:21
Operator : JC/SP
Sample : K3213-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

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

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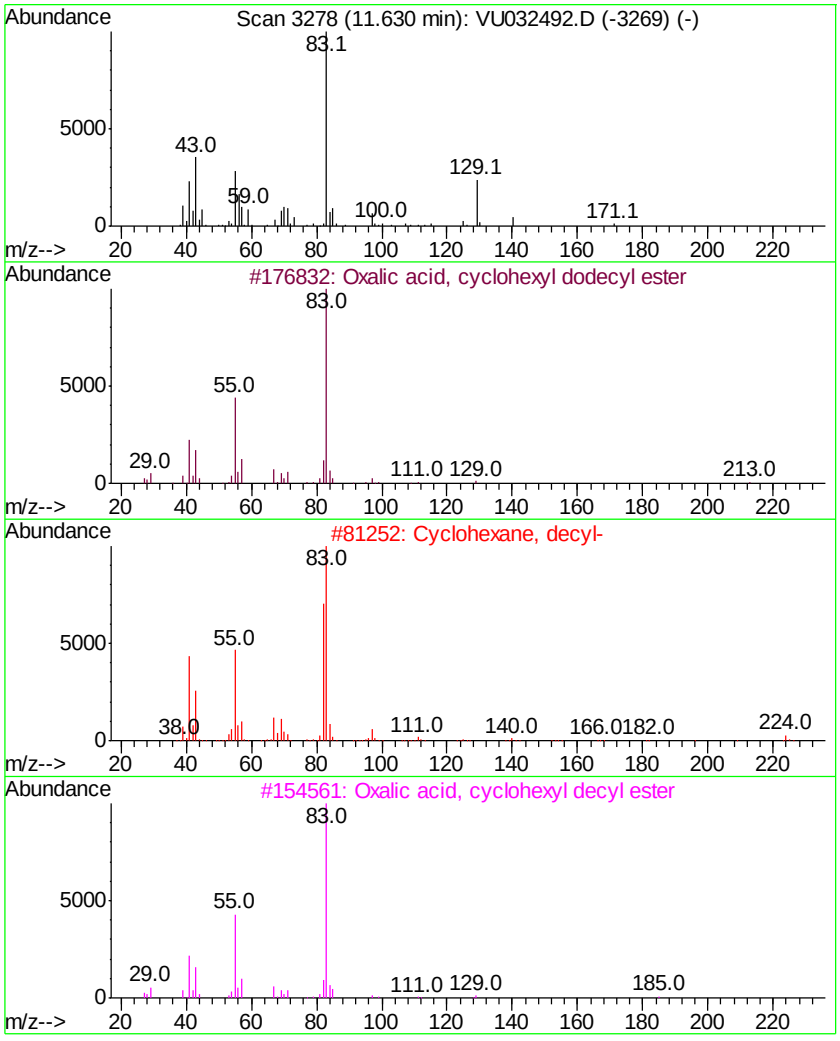
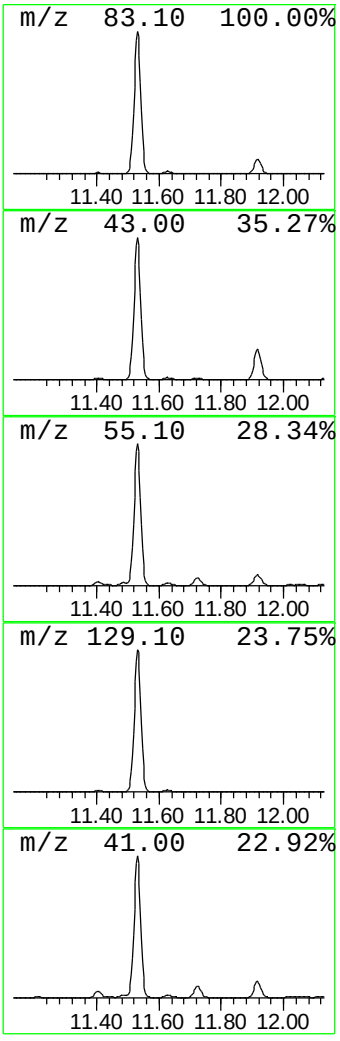
Peak Number 11 Oxalic acid, cyclohexyl dod... Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.63	10.58 ug/L	148009	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxalic acid, cyclohexyl dodecyl ...	340	C20H36O4	1000309-31-4	53
2	Cyclohexane, decyl-	224	C16H32	001795-16-0	53
3	Oxalic acid, cyclohexyl decyl ester	312	C18H32O4	1000309-31-2	53
4	Oxalic acid, cyclohexyl isohexyl...	256	C14H24O4	1000309-30-7	50
5	1,1-Hexylenedioxybutane	172	C10H20O2	1000249-77-4	50





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Data File : VU032492.D
Acq On : 06 Jun 2019 13:21
Operator : JC/SP
Sample : K3213-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

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

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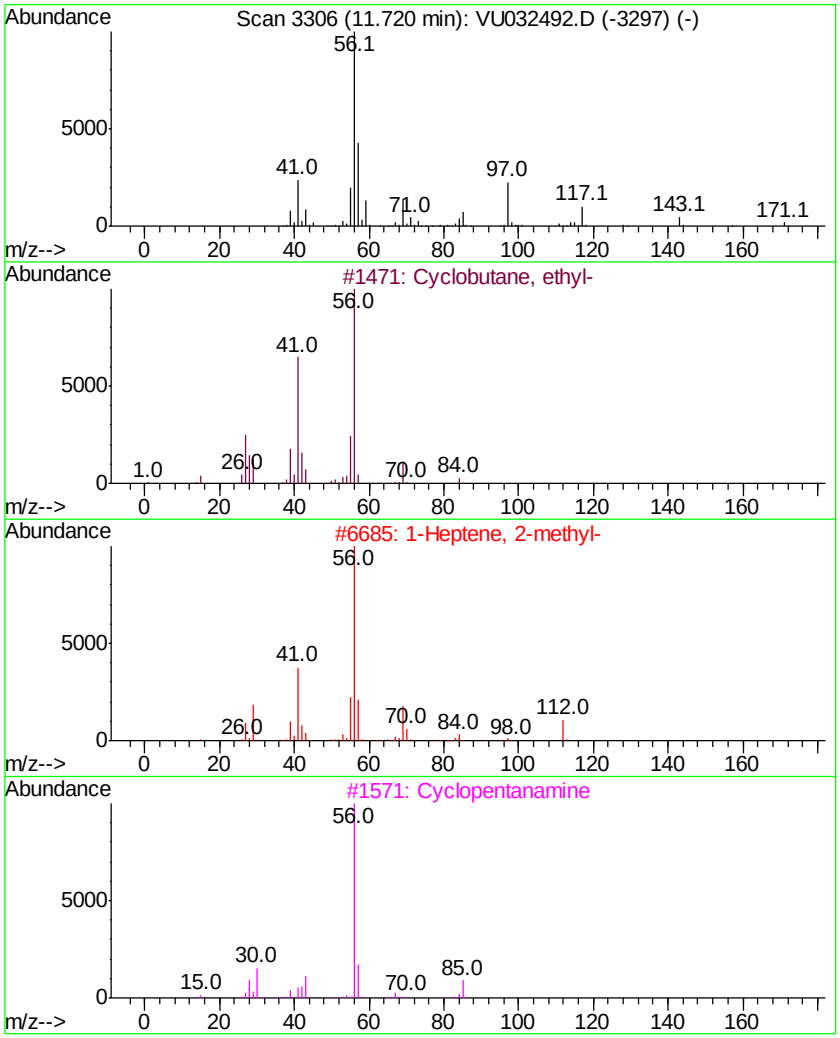
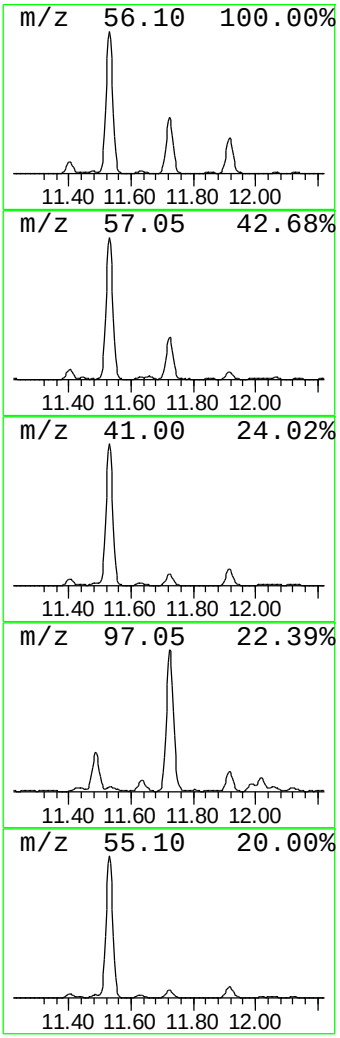
Peak Number 12 (DEL) Alkane: Cyclic11.72 Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.72	35.62 ug/L	498288	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclobutane, ethyl-	84	C6H12	004806-61-5	47
2	1-Heptene, 2-methyl-	112	C8H16	015870-10-7	40
3	Cyclopentanamine	85	C5H11N	001003-03-8	38
4	1-Hexene, 2,5-dimethyl-	112	C8H16	006975-92-4	38
5	2,2-Dimethyl-1,3-butanediol	118	C6H14O2	000076-35-7	33





Library Search Compound Report

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Data File : VU032492.D
Acq On : 06 Jun 2019 13:21
Operator : JC/SP
Sample : K3213-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

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

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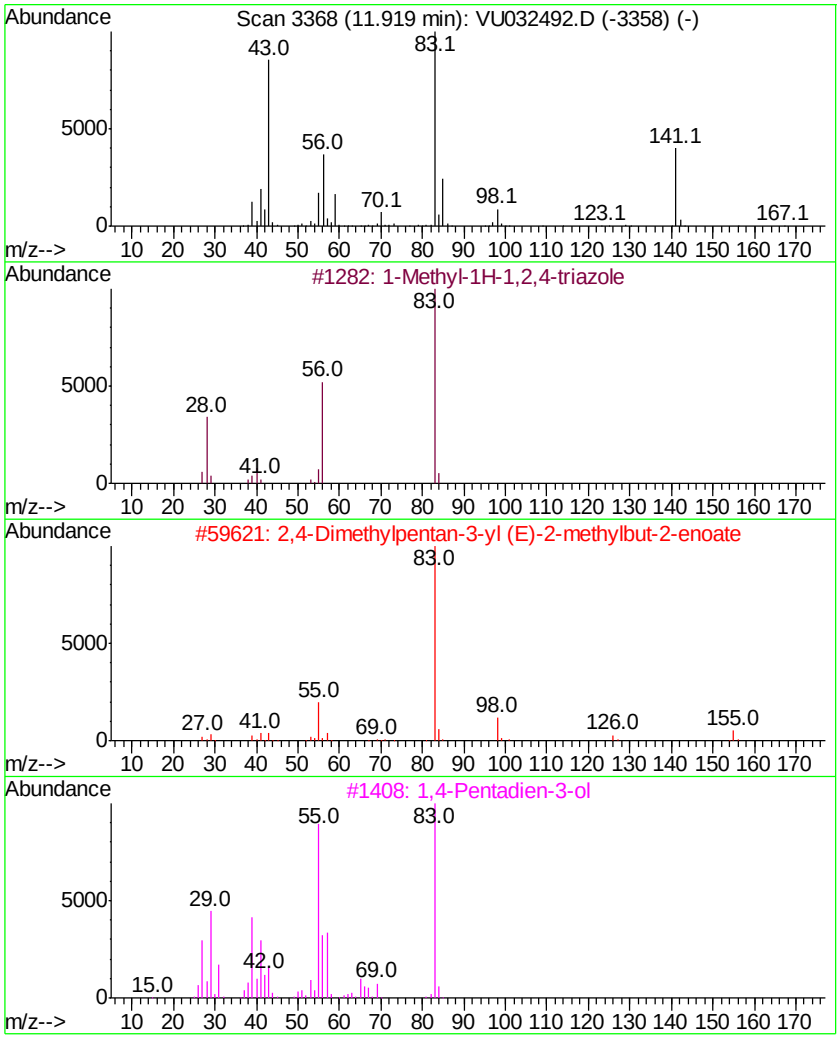
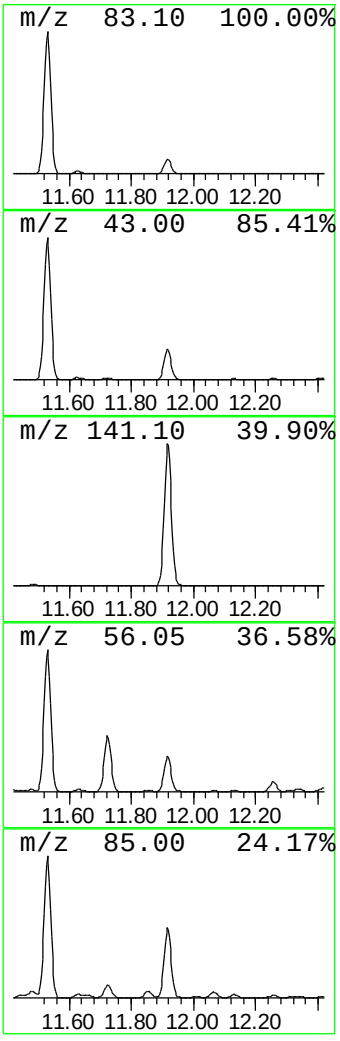
Peak Number 13 unknown-05 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.92	81.09 ug/L	1134360	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Methyl-1H-1,2,4-triazole	83	C3H5N3	006086-21-1	32
2	2,4-Dimethylpentan-3-yl (E)-2-me...	198	C12H22O2	1000373-75-5	25
3	1,4-Pentadien-3-ol	84	C5H8O	000922-65-6	23
4	3-Hexen-1-ol, 2,5-dimethyl-, for...	156	C9H16O2	1000132-12-3	14
5	3-Methylbut-2-enoic acid, 4-nitr...	221	C11H11NO4	1000307-59-8	12





Library Search Compound Report

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Acq On : 06 Jun 2019 13:21
Operator : JC/SP
Sample : K3213-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

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

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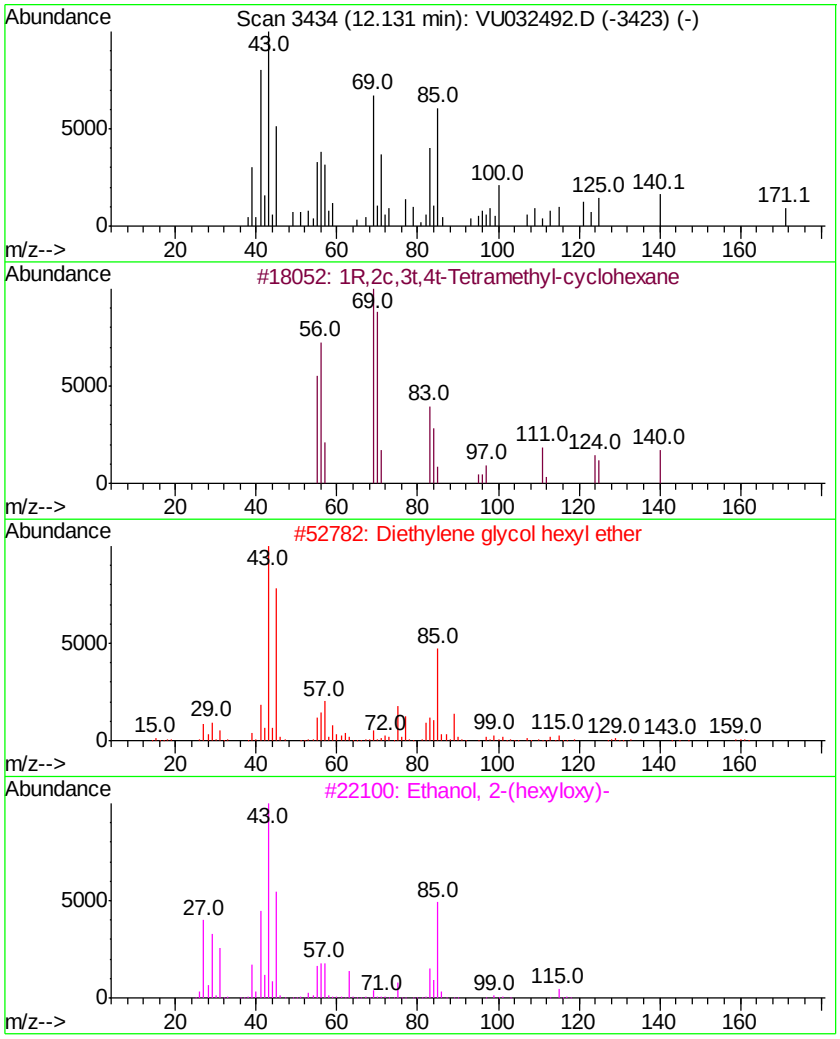
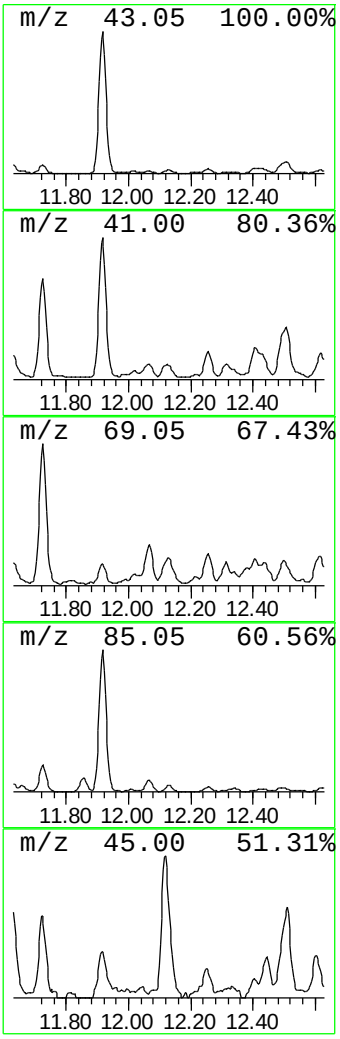
Peak Number 14 unknown-06 Concentration Rank 33

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.13	5.36 ug/L	75030	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1R,2c,3t,4t-Tetramethyl-cyclohexane	140	C10H20	1000144-07-3	43
2	Diethylene glycol hexyl ether	190	C10H22O3	000112-59-4	38
3	Ethanol, 2-(hexyloxy)-	146	C8H18O2	000112-25-4	38
4	2H-Pyran, tetrahydro-2-methyl-	100	C6H12O	010141-72-7	27
5	Furan, tetrahydro-2,4-dimethyl-,...	100	C6H12O	039168-01-9	22





Library Search Compound Report

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Data File : VU032492.D
Acq On : 06 Jun 2019 13:21
Operator : JC/SP
Sample : K3213-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

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

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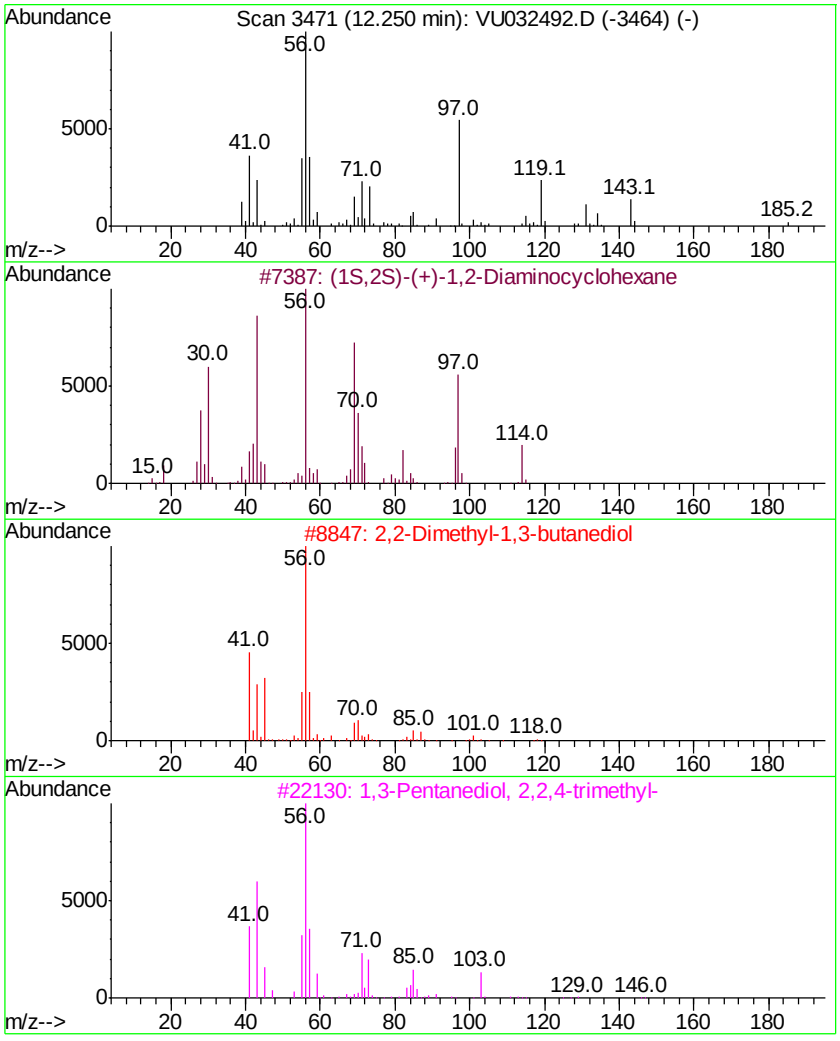
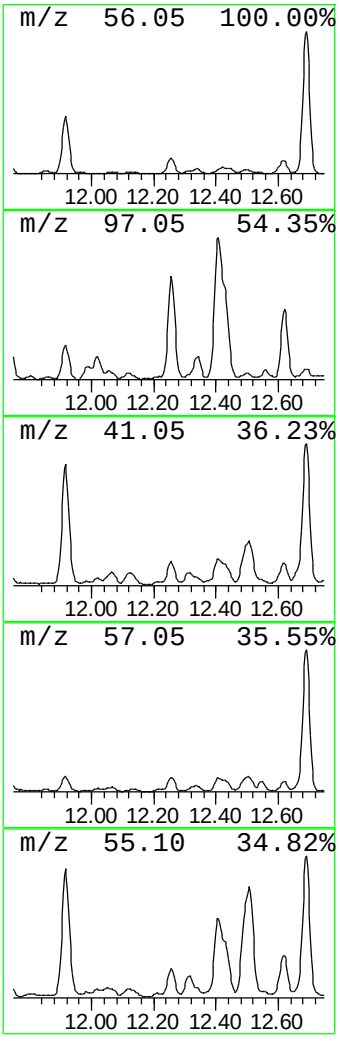
Peak Number 15 unknown-07 Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.25	9.13 ug/L	127680	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(1S,2S)-(+)-1,2-Diaminocyclohexane	114	C6H14N2	021436-03-3	36
2	2,2-Dimethyl-1,3-butanediol	118	C6H14O2	000076-35-7	35
3	1,3-Pentanediol, 2,2,4-trimethyl-	146	C8H18O2	000144-19-4	28
4	1-Hexene, 5-methyl-	98	C7H14	003524-73-0	27
5	1-Hexene, 2,5-dimethyl-	112	C8H16	006975-92-4	27





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Data File : VU032492.D
Acq On : 06 Jun 2019 13:21
Operator : JC/SP
Sample : K3213-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

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

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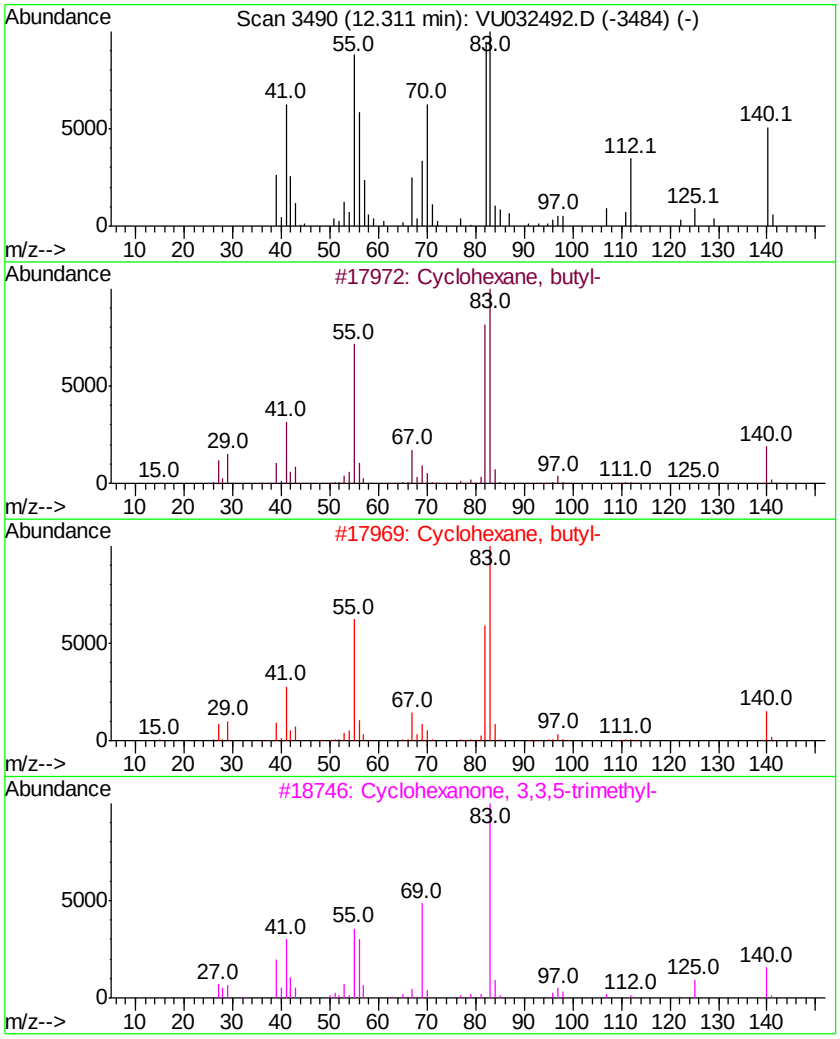
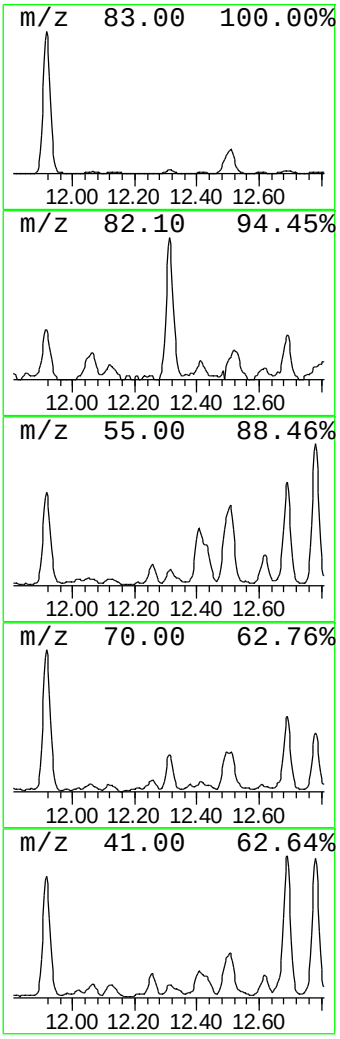
Peak Number 16 (DEL) Alkane: Cyclic12.31 Concentration Rank 37

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.31	3.74 ug/L	52246	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, butyl-	140	C10H20	001678-93-9	52
2	Cyclohexane, butyl-	140	C10H20	001678-93-9	46
3	Cyclohexanone, 3,3,5-trimethyl-	140	C9H16O	000873-94-9	45
4	3-Ethylcyclopentanone	112	C7H12O	010264-55-8	41
5	2-Octene, (Z)-	112	C8H16	007642-04-8	38





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Operator : JC/SP
Sample : K3213-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

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

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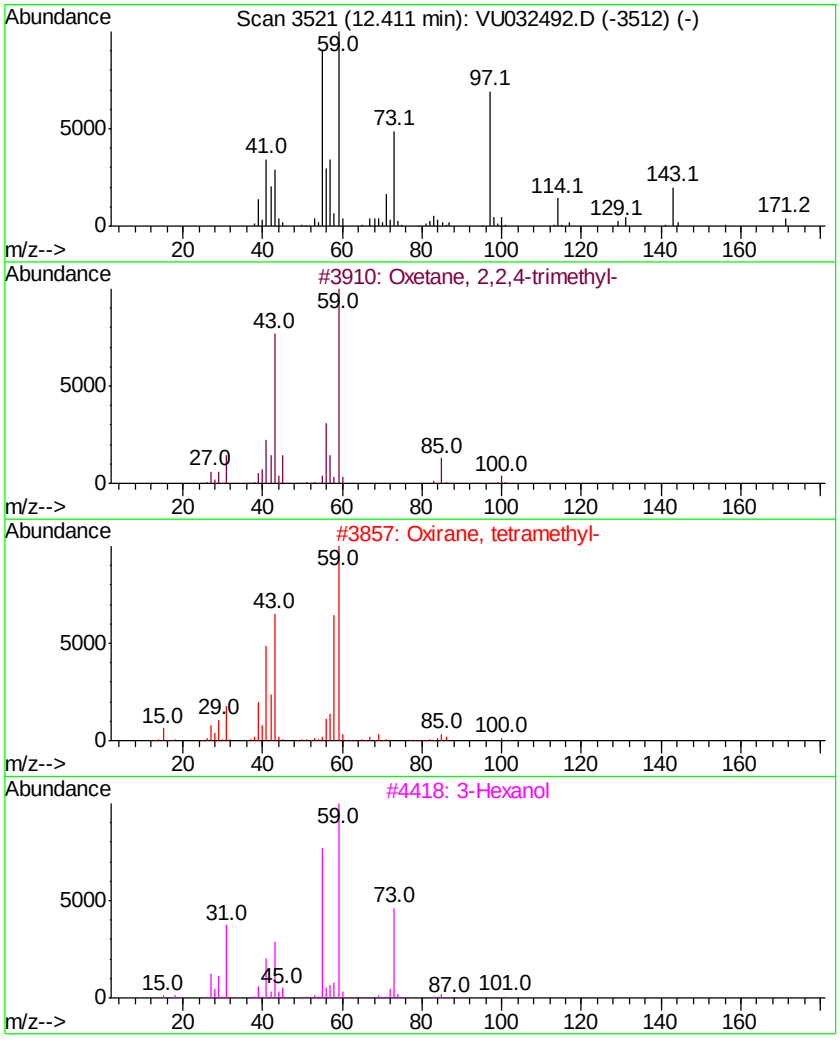
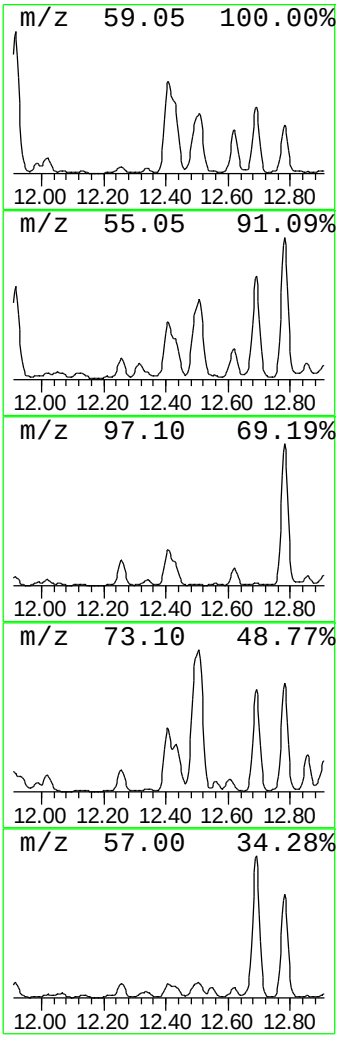
Peak Number 17 unknown-08 Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.41	21.51 ug/L	300827	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxetane, 2,2,4-trimethyl-	100	C6H12O	023120-44-7	35
2	Oxirane, tetramethyl-	100	C6H12O	005076-20-0	35
3	3-Hexanol	102	C6H14O	000623-37-0	32
4	3-Hexanol	102	C6H14O	000623-37-0	32
5	Butanamide, 3,3-dimethyl-	115	C6H13NO	000926-04-5	27





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032492.D
Acq On : 06 Jun 2019 13:21
Operator : JC/SP
Sample : K3213-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

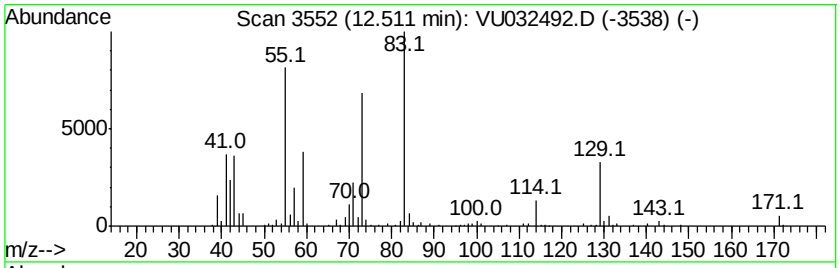
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

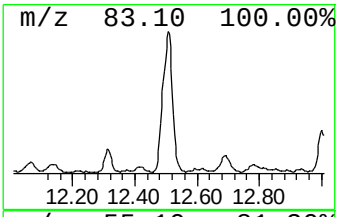
****

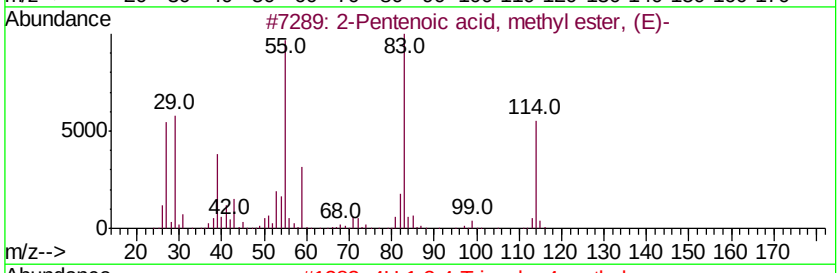
Peak Number 18 unknown-09 Concentration Rank 10

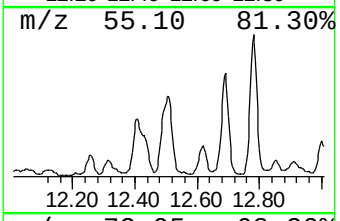
R.T.	EstConc	Area	Relative to ISTD	R.T.
12.51	33.89 ug/L	473992	1,4-Dichlorobenzene-d4	11.48

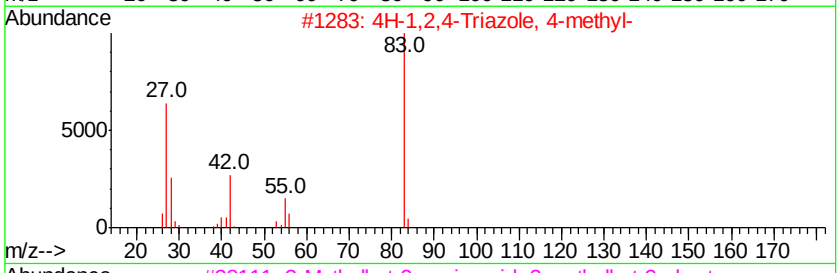
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentenoic acid, methyl ester, ...	114	C6H10O2	015790-88-2	43
2	4H-1,2,4-Triazole, 4-methyl-	83	C3H5N3	010570-40-8	35
3	3-Methylbut-2-enoic acid, 3-meth...	170	C10H18O2	1000355-12-7	32
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	32
5	Cyclohexane, azido-	125	C6H11N3	019573-22-9	32

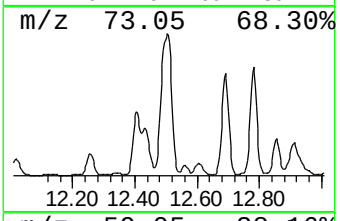


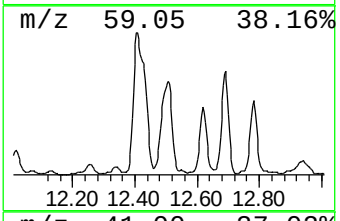


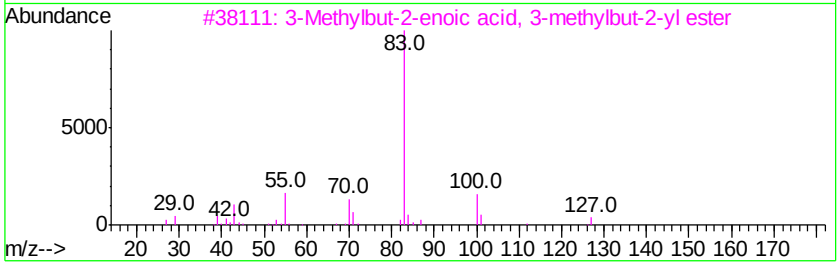


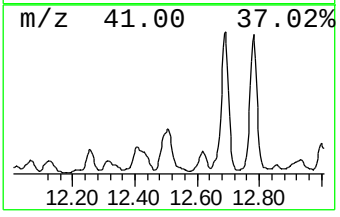












Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032492.D
Acq On : 06 Jun 2019 13:21
Operator : JC/SP
Sample : K3213-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

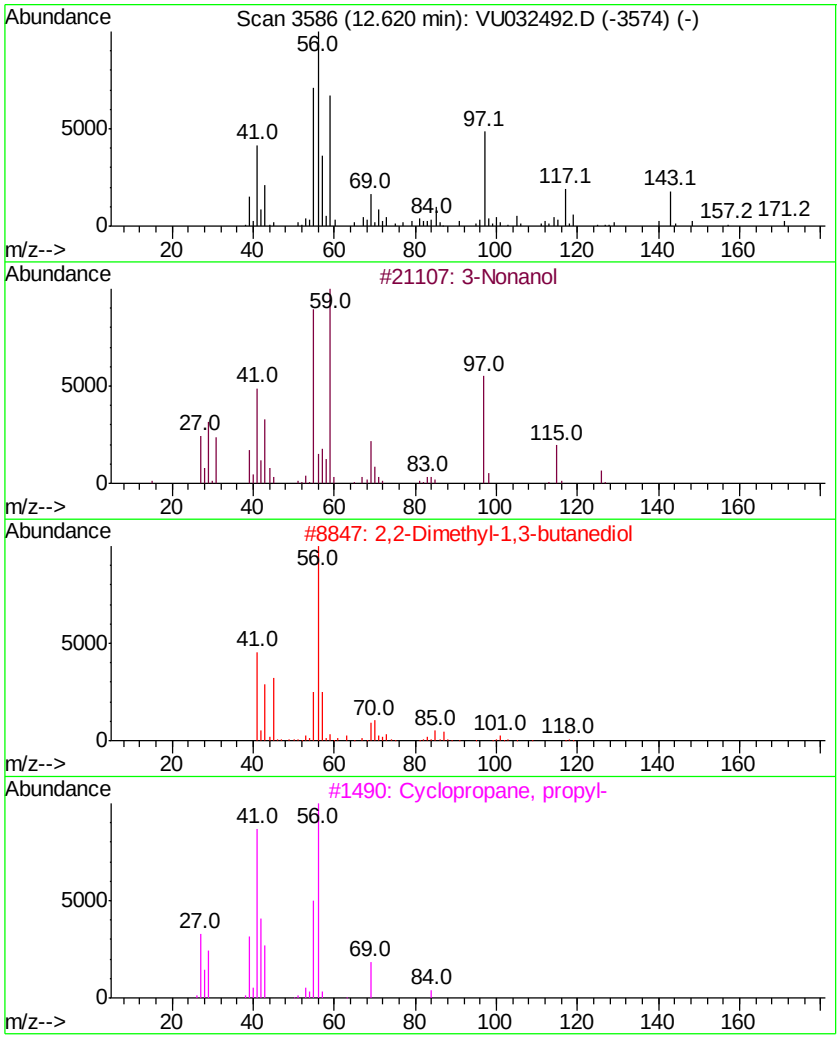
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

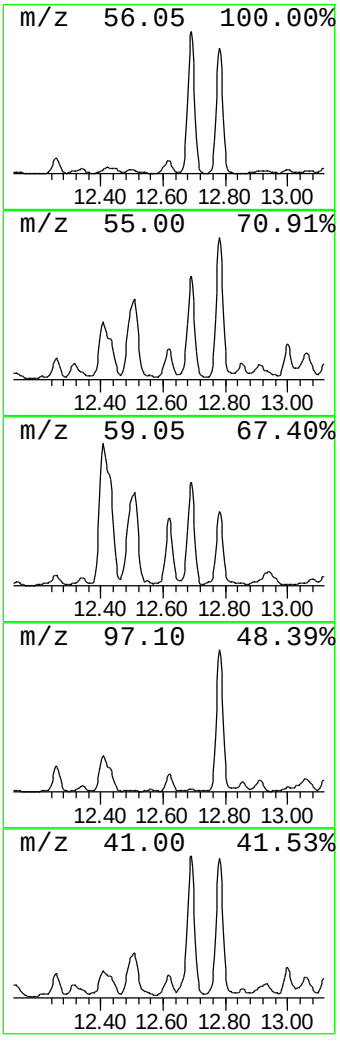
****

Peak Number 19 unknown-10 Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.62	10.27 ug/L	143659	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Nonanol	144	C9H20O	000624-51-1	35
2	2,2-Dimethyl-1,3-butanediol	118	C6H14O2	000076-35-7	35
3	Cyclopropane, propyl-	84	C6H12	002415-72-7	27
4	Cyclobutane, ethyl-	84	C6H12	004806-61-5	27
5	1-Decene, 2-methyl-	154	C11H22	013151-27-4	27





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032492.D
Acq On : 06 Jun 2019 13:21
Operator : JC/SP
Sample : K3213-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

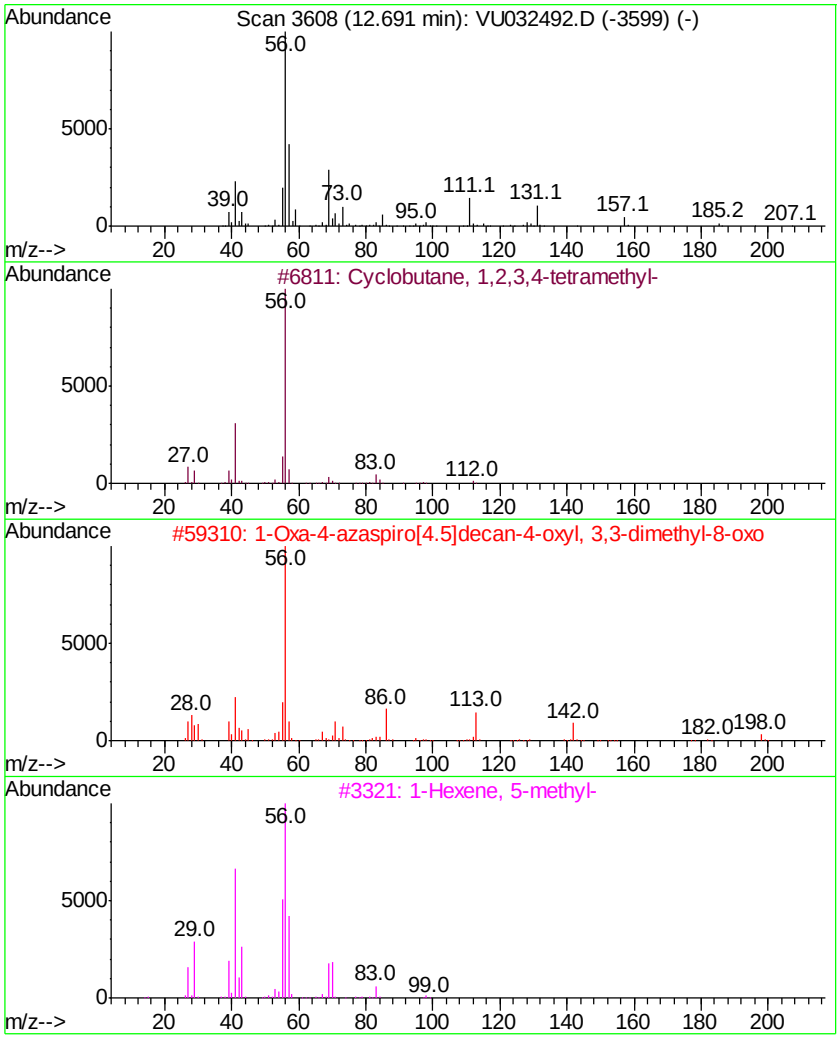
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

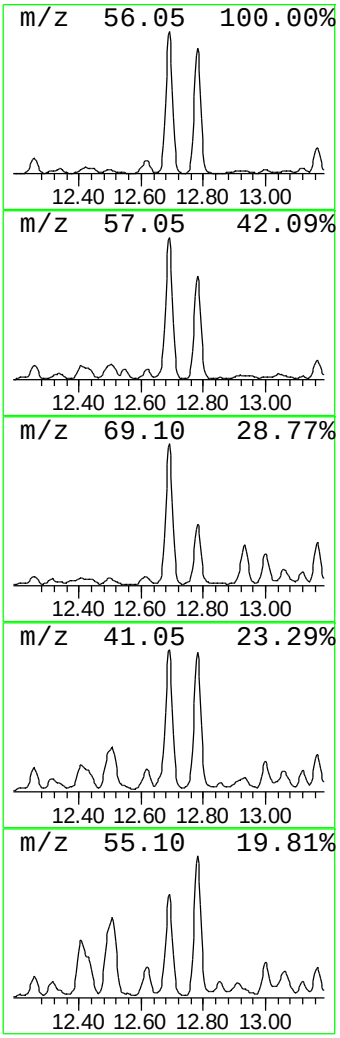
****

Peak Number 20 (DEL) Alkane: Cyclic12.69 Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.69	63.76 ug/L	891938	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclobutane, 1,2,3,4-tetramethyl-	112	C8H16	069531-57-3	47
2	1-Oxa-4-azaspiro[4.5]decan-4-oxy...	198	C10H16NO3	1000115-84-0	40
3	1-Hexene, 5-methyl-	98	C7H14	003524-73-0	40
4	Cyclopentane, (1,1-dimethylethyl)-	126	C9H18	003875-52-3	40
5	Tridecane, 7-methylene-	196	C14H28	019780-80-4	38





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032492.D
Acq On : 06 Jun 2019 13:21
Operator : JC/SP
Sample : K3213-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

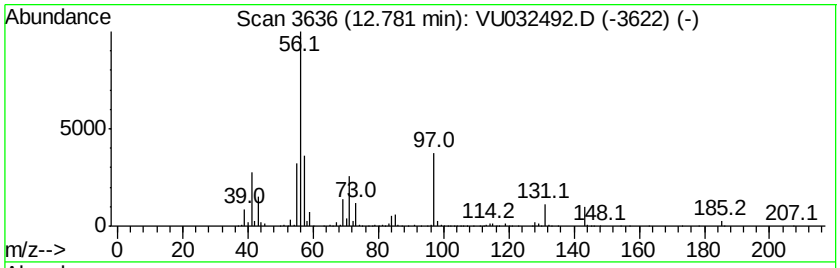
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

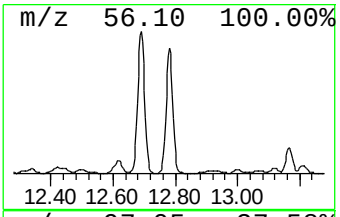
****

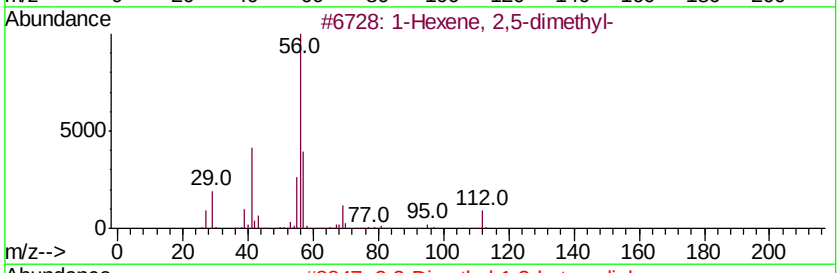
Peak Number 21 unknown-11 Concentration Rank 7

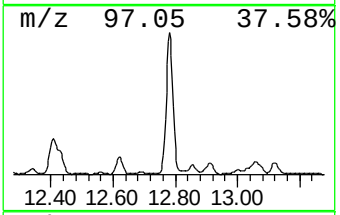
R.T.	EstConc	Area	Relative to ISTD	R.T.
12.78	63.67 ug/L	890659	1,4-Dichlorobenzene-d4	11.48

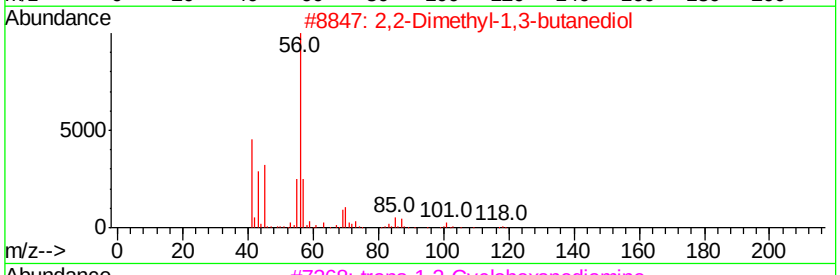
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hexene, 2,5-dimethyl-	112	C8H16	006975-92-4	38
2	2,2-Dimethyl-1,3-butanediol	118	C6H14O2	000076-35-7	37
3	trans-1,2-Cyclohexanediamine	114	C6H14N2	001121-22-8	33
4	1,2-Cyclohexanediamine	114	C6H14N2	000694-83-7	33
5	1-Hexene, 2,5-dimethyl-	112	C8H16	006975-92-4	32

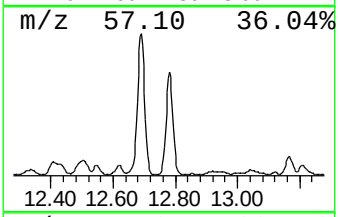


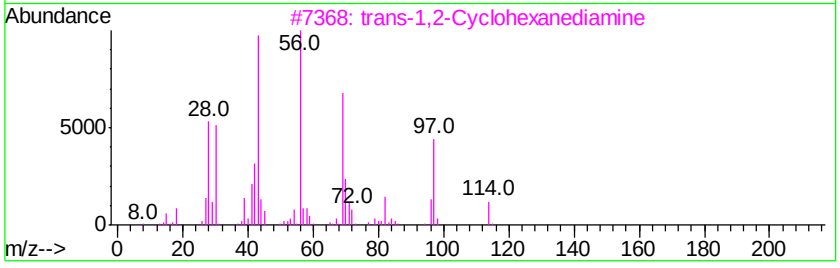


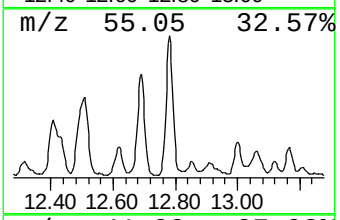


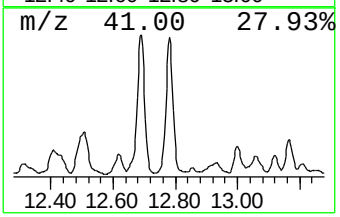












Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU060619\
Data File : VU032492.D
Acq On : 06 Jun 2019 13:21
Operator : JC/SP
Sample : K3213-09
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

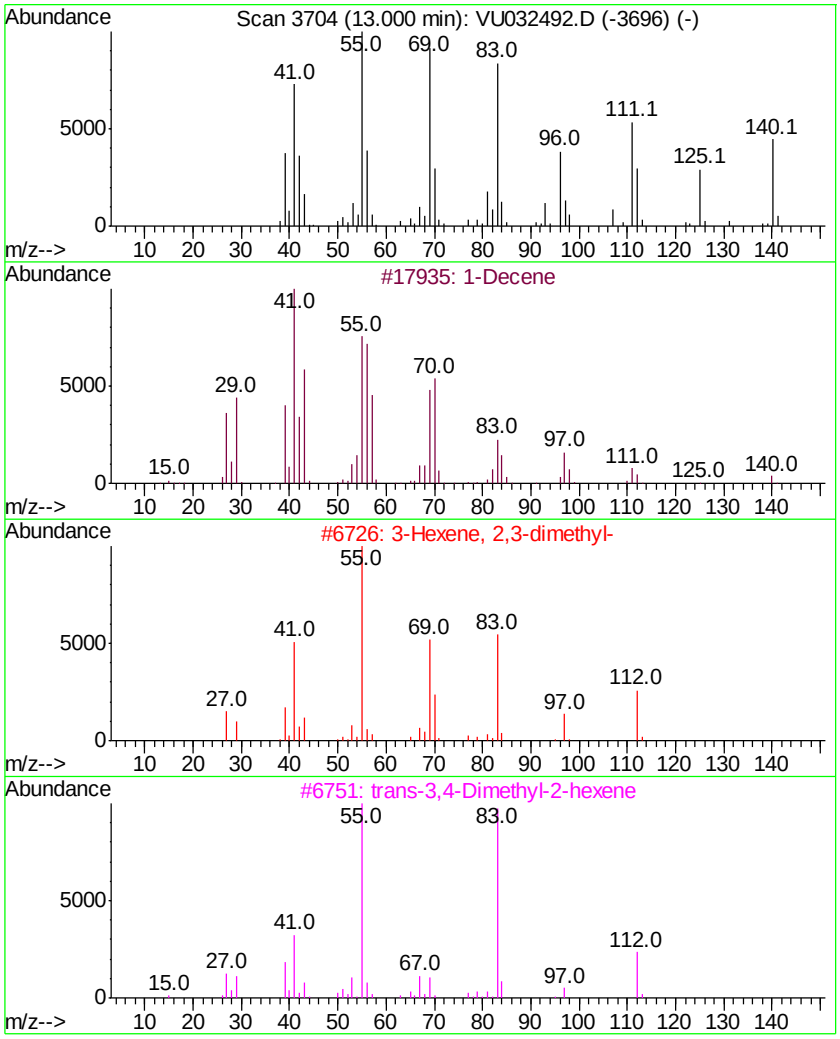
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

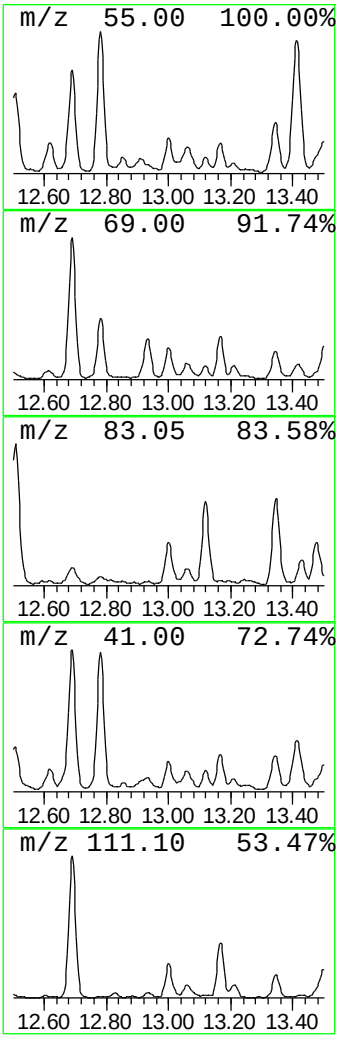
****

Peak Number 22 (DEL) Alkane: Cyclic13.00 Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.00	10.24 ug/L	143273	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Decene	140	C10H20	000872-05-9	52
2	3-Hexene, 2,3-dimethyl-	112	C8H16	007145-23-5	45
3	trans-3,4-Dimethyl-2-hexene	112	C8H16	019550-82-4	38
4	Cyclopentane, propyl-	112	C8H16	002040-96-2	38
5	3-Heptene, 4-methyl-	112	C8H16	004485-16-9	35





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032492.D
Acq On : 06 Jun 2019 13:21
Operator : JC/SP
Sample : K3213-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

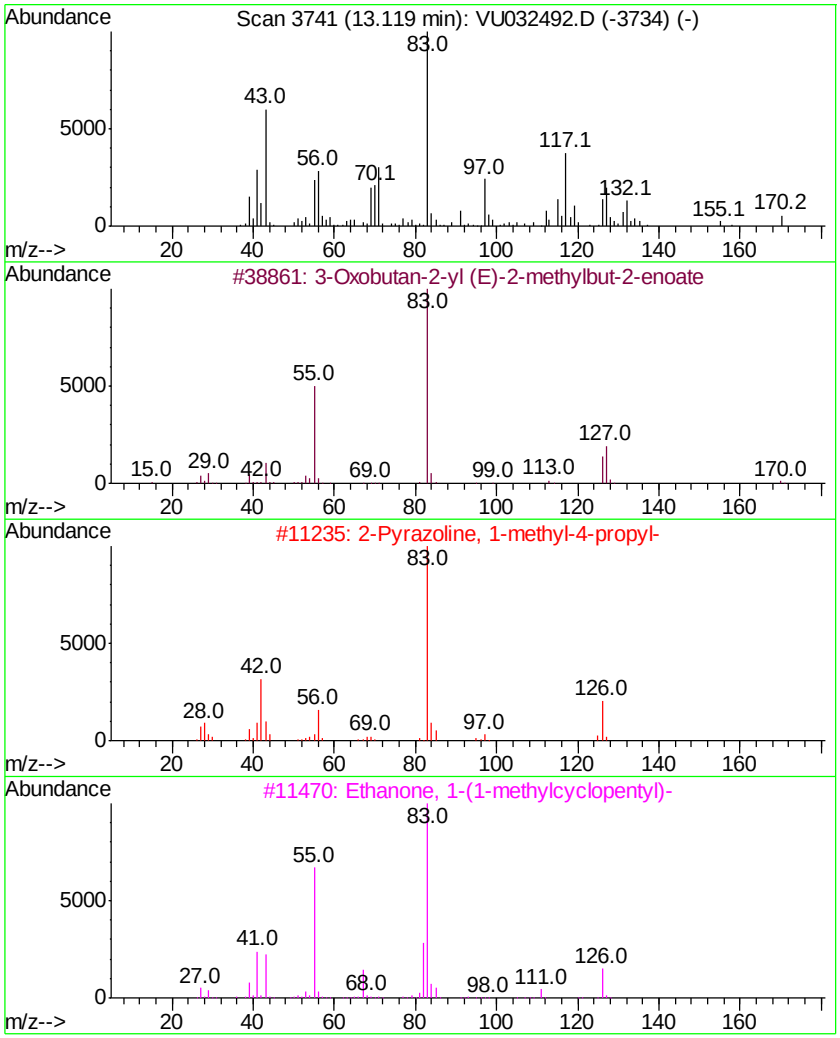
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

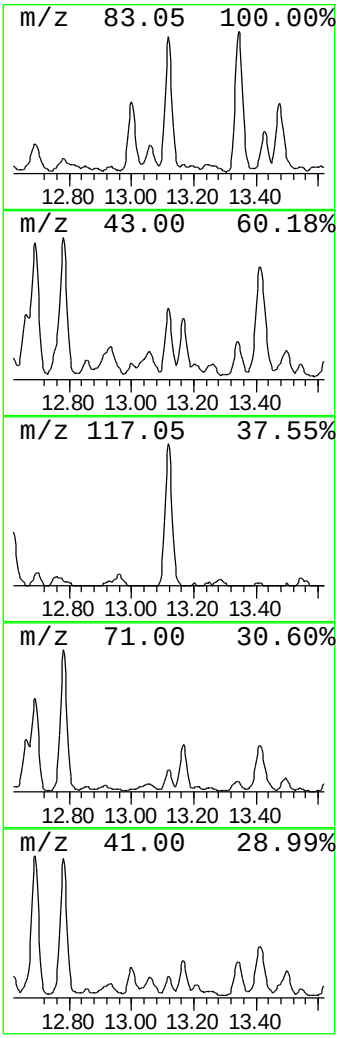
****

Peak Number 23 unknown-12 Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.12	9.89 ug/L	138370	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Oxobutan-2-yl (E)-2-methylbut-...	170	C9H14O3	1000373-71-9	32
2	2-Pyrazoline, 1-methyl-4-propyl-	126	C7H14N2	033063-77-3	27
3	Ethanone, 1-(1-methylcyclopentyl)-	126	C8H14O	013388-93-7	27
4	Neopentyl (E)-2-methylbut-2-enoate	170	C10H18O2	1000373-71-0	25
5	2-Butenoic acid, 3-methyl-, 2-et...	212	C13H24O2	085567-31-3	25





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032492.D
Acq On : 06 Jun 2019 13:21
Operator : JC/SP
Sample : K3213-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

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

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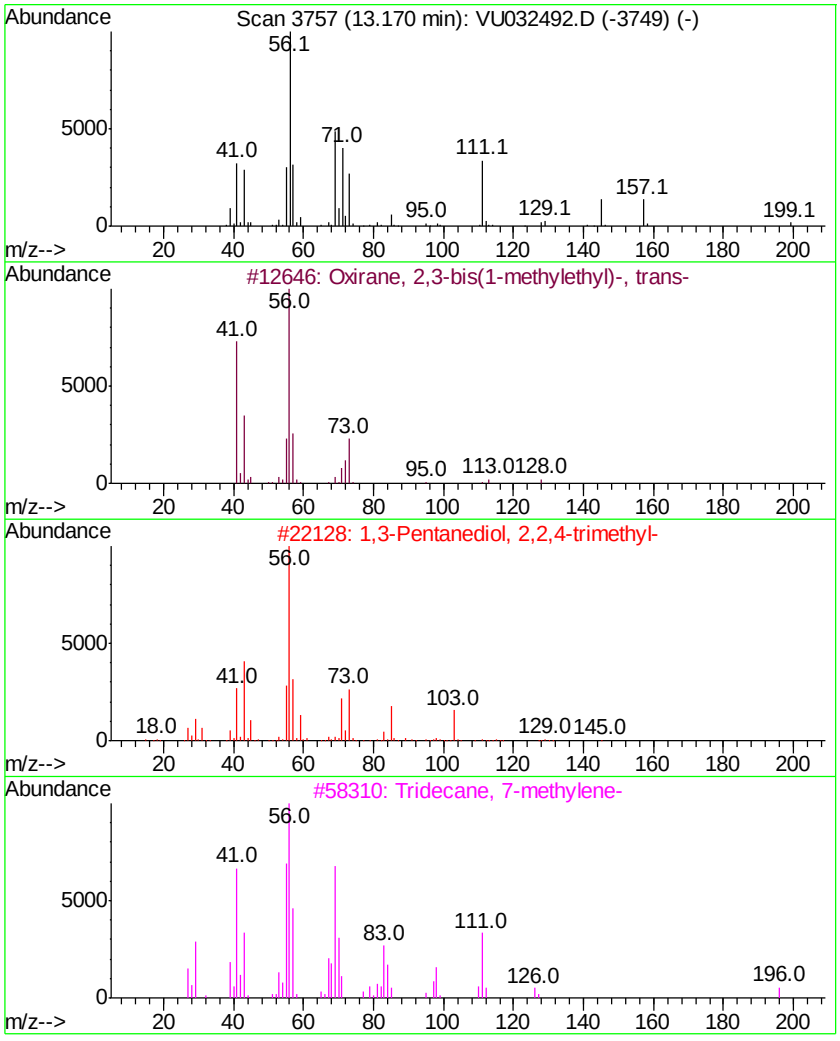
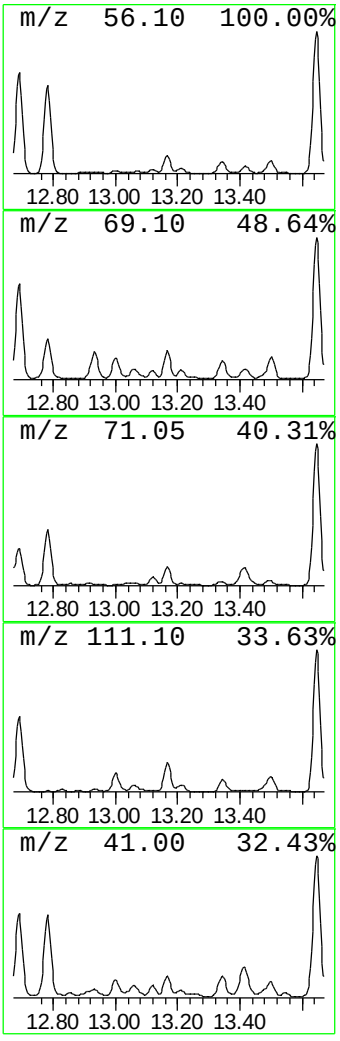
Peak Number 24 unknown-13 Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.17	11.54 ug/L	161479	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, 2,3-bis(1-methylethyl)-...	128	C8H16O	054644-32-5	38
2	1,3-Pentanediol, 2,2,4-trimethyl-	146	C8H18O2	000144-19-4	28
3	Tridecane, 7-methylene-	196	C14H28	019780-80-4	25
4	2-Methyl-1-nonene	140	C10H20	002980-71-4	25
5	2,4-Dipropyl-5-ethyl-1,3-dioxane	200	C12H24O2	006413-83-8	25





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032492.D
Acq On : 06 Jun 2019 13:21
Operator : JC/SP
Sample : K3213-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

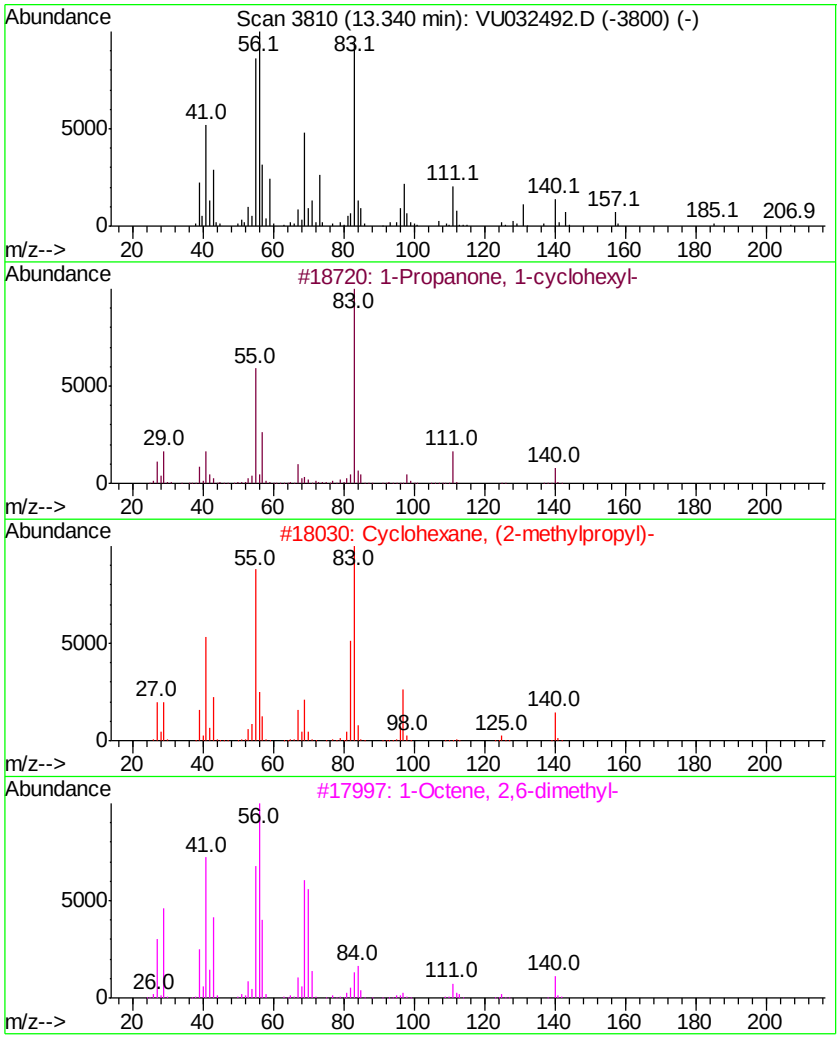
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

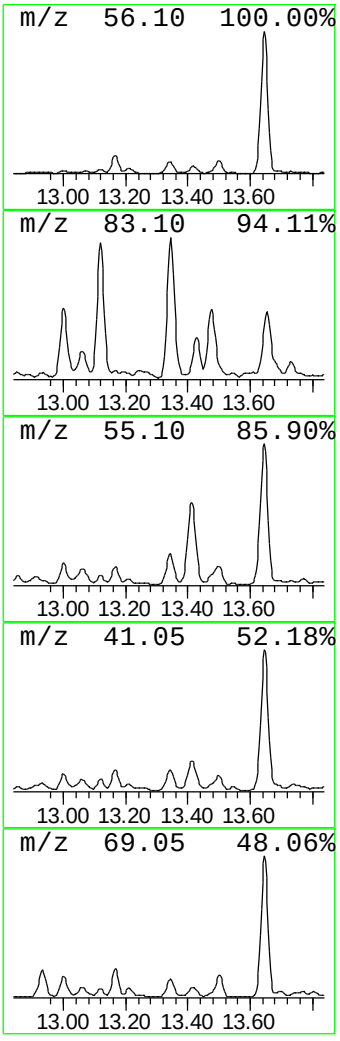
****

Peak Number 25 unknown-14 Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.34	17.42 ug/L	243642	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propanone, 1-cyclohexyl-	140	C9H16O	001123-86-0	46
2	Cyclohexane, (2-methylpropyl)-	140	C10H20	001678-98-4	43
3	1-Octene, 2,6-dimethyl-	140	C10H20	006874-29-9	41
4	4-Nonene, 2-methyl-, (Z)-	140	C10H20	051090-05-2	41
5	Cyclohexanone, 3,3,5-trimethyl-	140	C9H16O	000873-94-9	38





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032492.D
Acq On : 06 Jun 2019 13:21
Operator : JC/SP
Sample : K3213-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

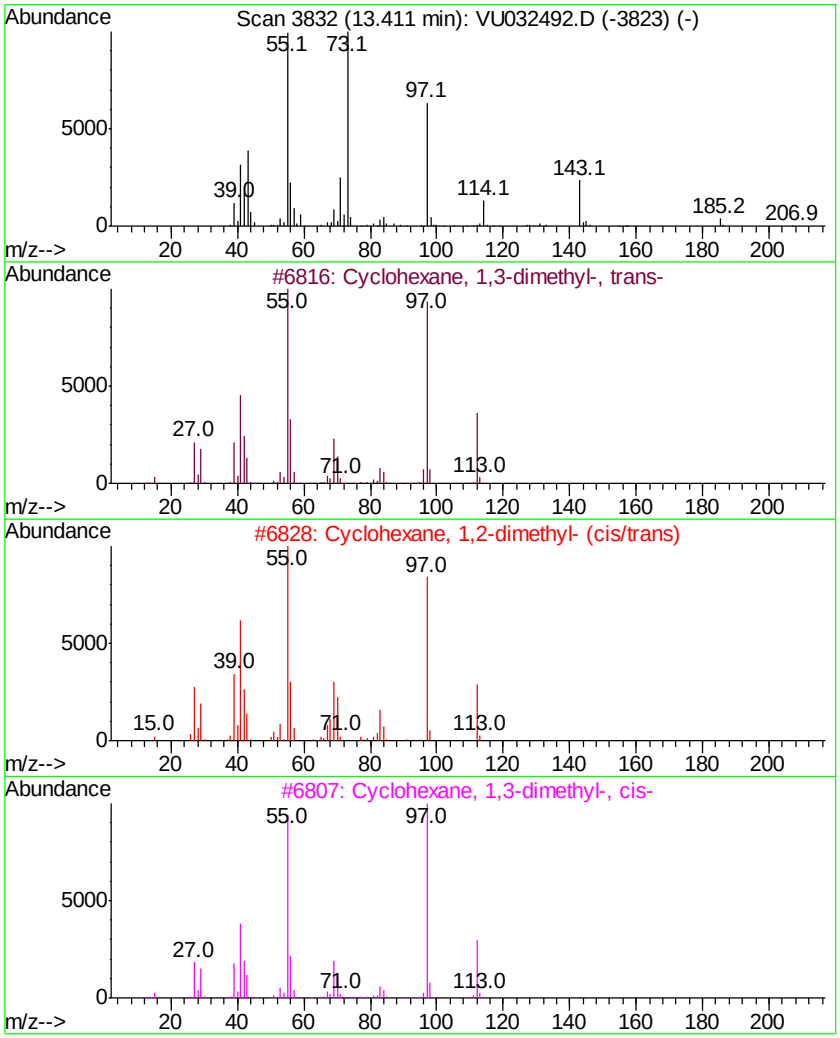
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

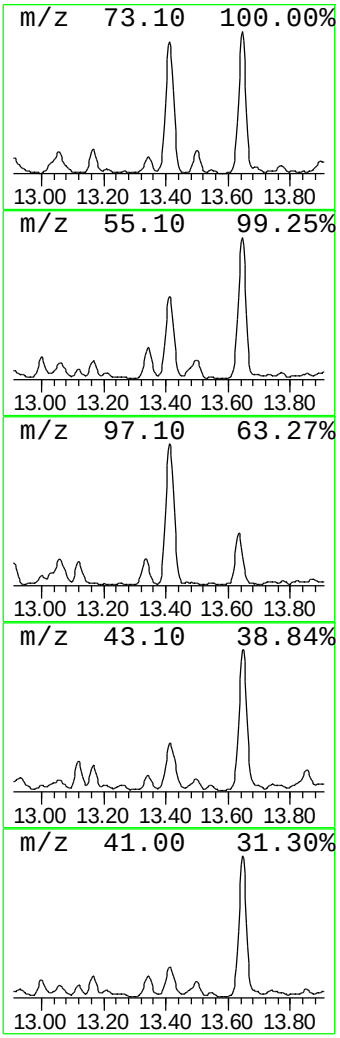
****

Peak Number 26 (DEL) Alkane: Cyclic13.41 Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.41	31.17 ug/L	436055	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	43
2	Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	43
3	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	43
4	Cyclopentane, 1,2-dimethyl-3-(1-...	140	C10H20	000489-20-3	37
5	Cyclohexane, 1,1-dimethyl-	112	C8H16	000590-66-9	35





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032492.D
Acq On : 06 Jun 2019 13:21
Operator : JC/SP
Sample : K3213-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J9

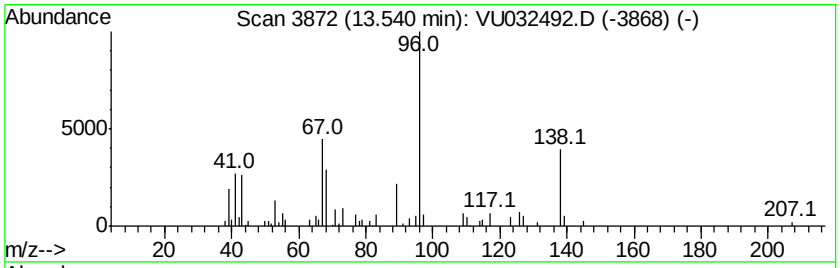
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

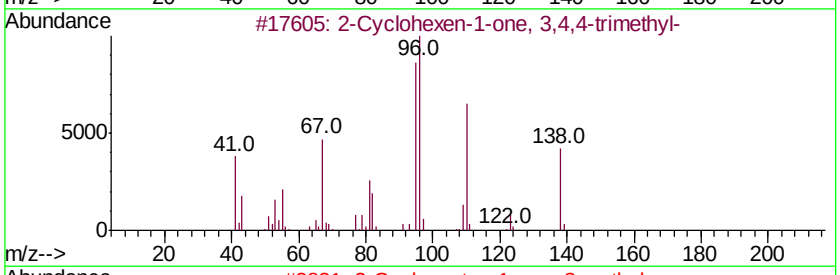
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

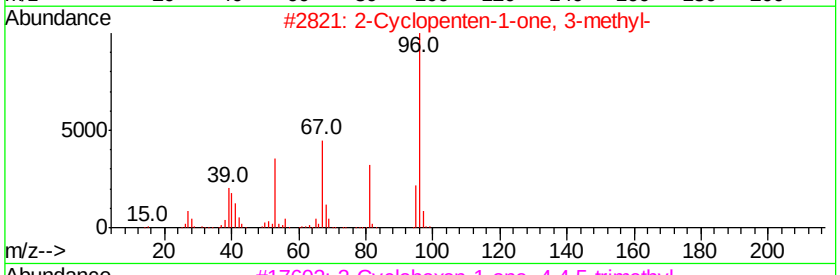
****
Peak Number 27 2-Cyclohexen-1-one, 3,4,4-t... Concentration Rank 38

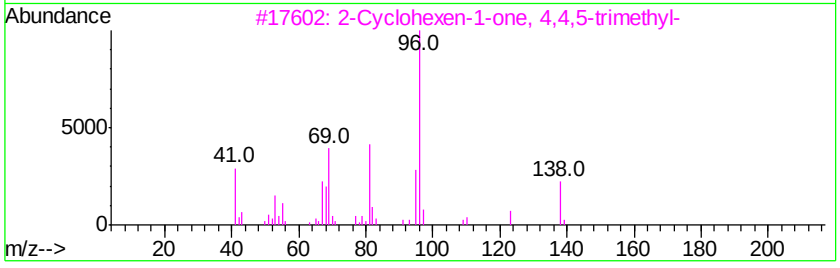
R.T.	EstConc	Area	Relative to ISTD	R.T.
13.54	3.32 ug/L	46373	1,4-Dichlorobenzene-d4	11.48

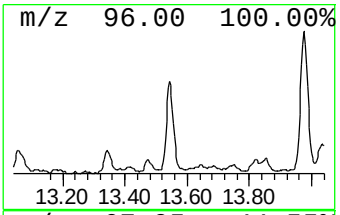
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Cyclohexen-1-one, 3,4,4-trimet...	138	C9H14O	017299-41-1	53
2	2-Cyclopenten-1-one, 3-methyl-	96	C6H8O	002758-18-1	43
3	2-Cyclohexen-1-one, 4,4,5-trimet...	138	C9H14O	017429-29-7	38
4	1H-Pyrazole-1-carboximidamide, 3...	138	C6H10N4	022906-75-8	37
5	1H-Imidazole, 1,5-dimethyl-	96	C5H8N2	010447-93-5	35

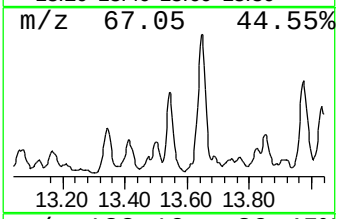


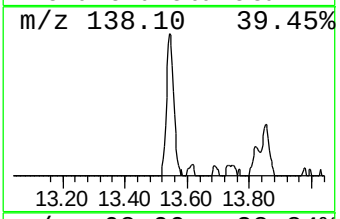


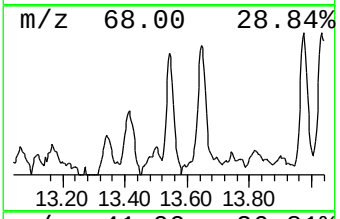


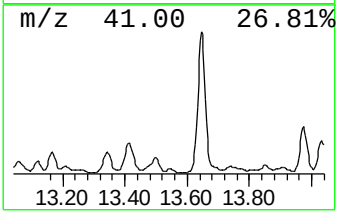












Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032492.D
Acq On : 06 Jun 2019 13:21
Operator : JC/SP
Sample : K3213-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

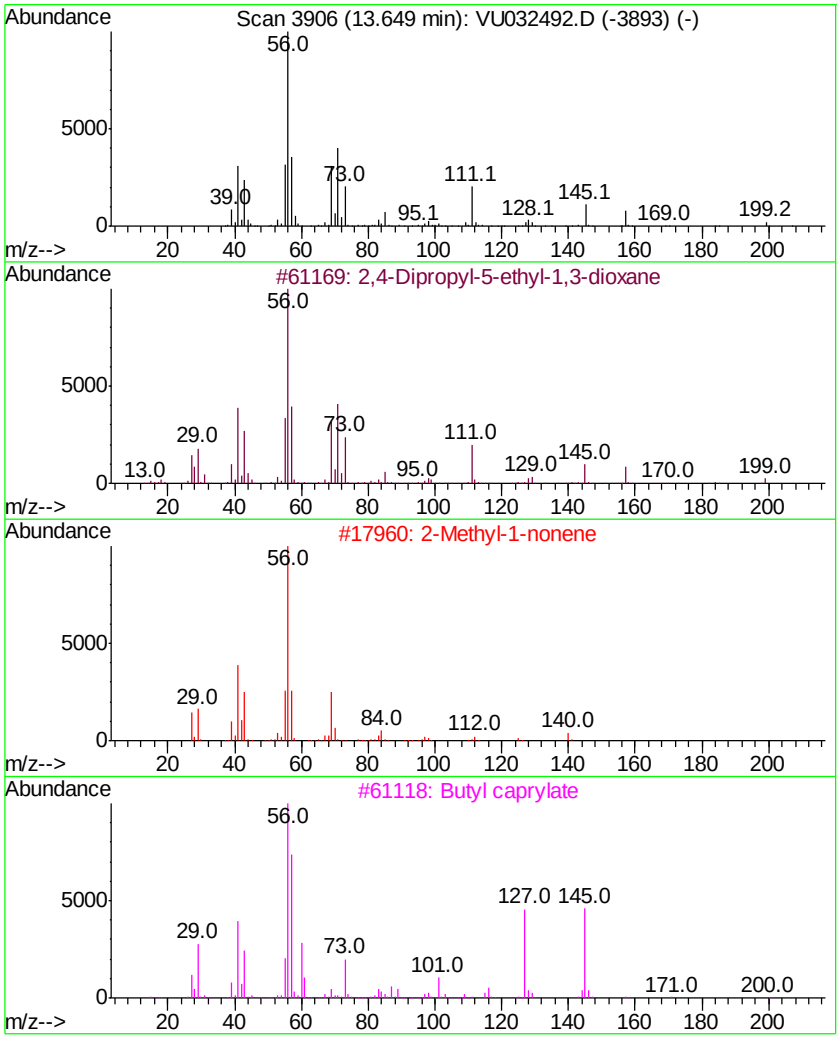
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

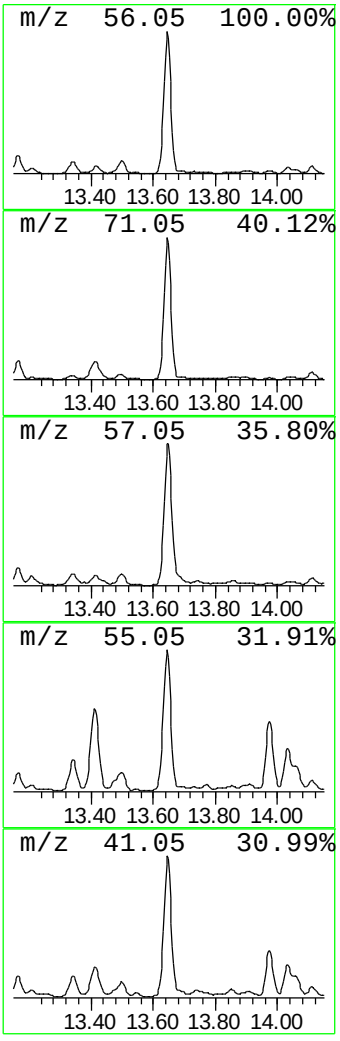
****

Peak Number 28 unknown-15 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.65	116.15 ug/L	1624700	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,4-Dipropyl-5-ethyl-1,3-dioxane	200	C12H24O2	006413-83-8	47
2	2-Methyl-1-nonene	140	C10H20	002980-71-4	27
3	Butyl caprylate	200	C12H24O2	000589-75-3	23
4	Tridecane, 7-methylene-	196	C14H28	019780-80-4	17
5	Decane, 5-methyl-6-methylene-	168	C12H24	075029-95-7	17





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032492.D
Acq On : 06 Jun 2019 13:21
Operator : JC/SP
Sample : K3213-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

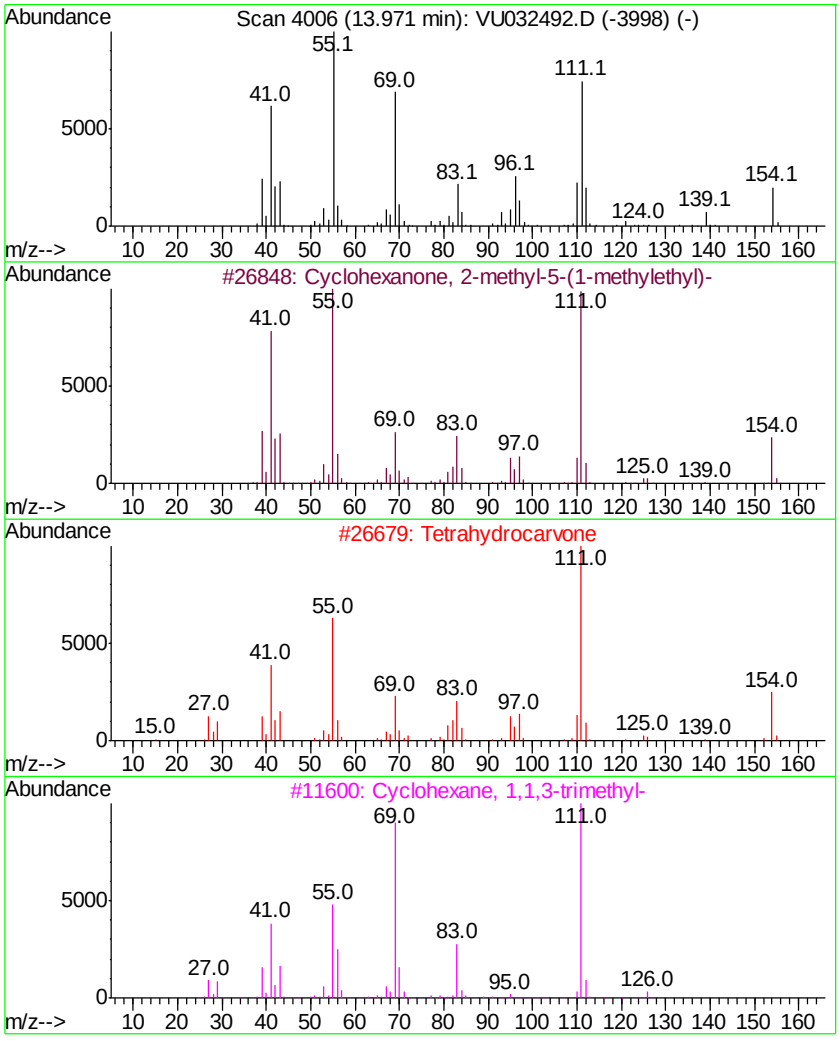
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

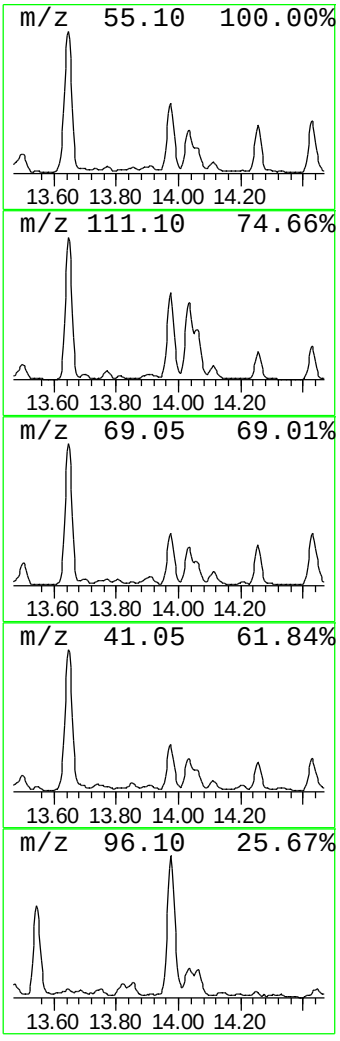
****

Peak Number 29 Cyclohexanone, 2-methyl-5-(... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.97	24.72 ug/L	345776	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexanone, 2-methyl-5-(1-met...	154	C10H18O	059471-80-6	93
2	Tetrahydrocarvone	154	C10H18O	000499-70-7	52
3	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	38
4	4-Amino-6-hydroxypyrimidine	111	C4H5N3O	001193-22-2	35
5	Cyclohexane, 1,2-diethyl-, cis-	140	C10H20	000824-43-1	27





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Data File : VU032492.D
Acq On : 06 Jun 2019 13:21
Operator : JC/SP
Sample : K3213-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

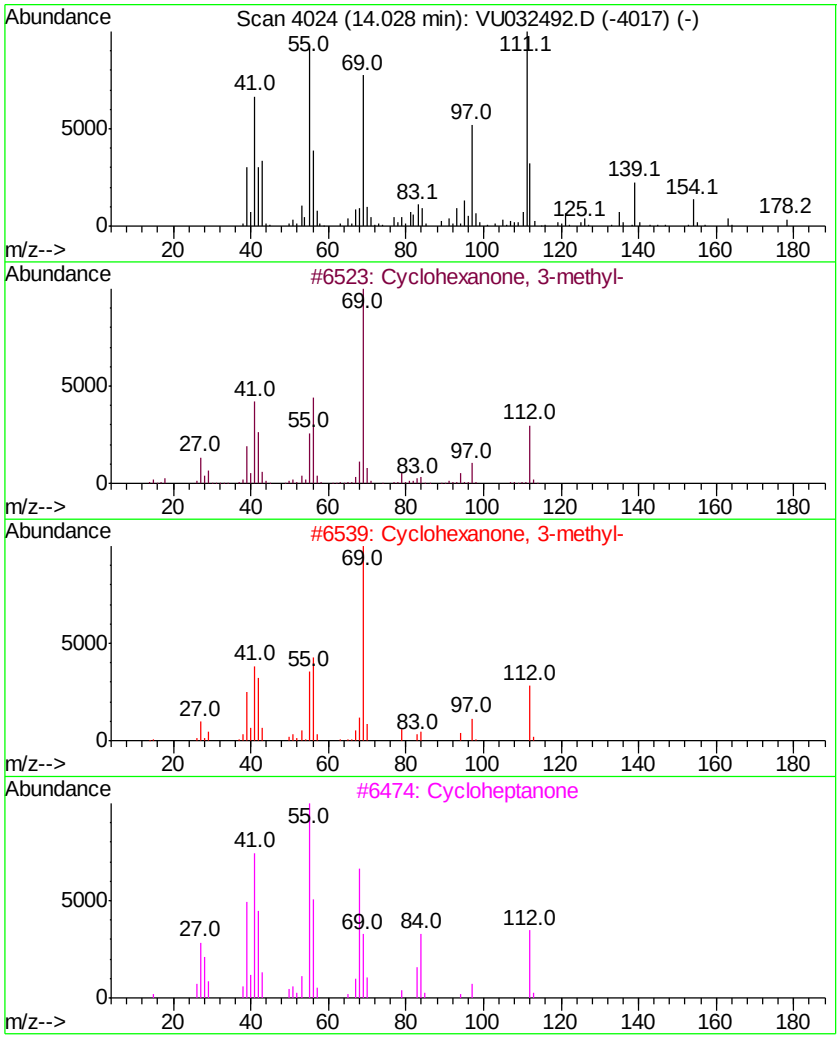
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

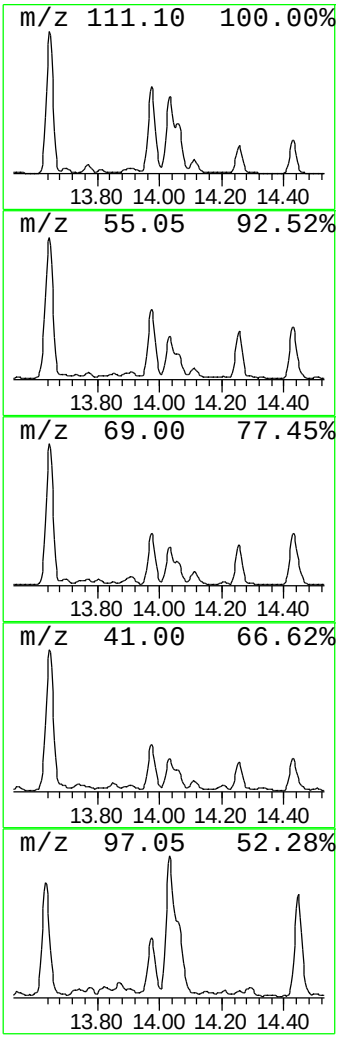
****

Peak Number 30 unknown-16 Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.03	20.77 ug/L	290486	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexanone, 3-methyl-	112	C7H12O	000591-24-2	43
2	Cyclohexanone, 3-methyl-	112	C7H12O	000591-24-2	43
3	Cycloheptanone	112	C7H12O	000502-42-1	35
4	3-Heptene, 4-methyl-	112	C8H16	004485-16-9	30
5	3-Heptene, 4-methyl-	112	C8H16	004485-16-9	30





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Data File : VU032492.D
Acq On : 06 Jun 2019 13:21
Operator : JC/SP
Sample : K3213-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

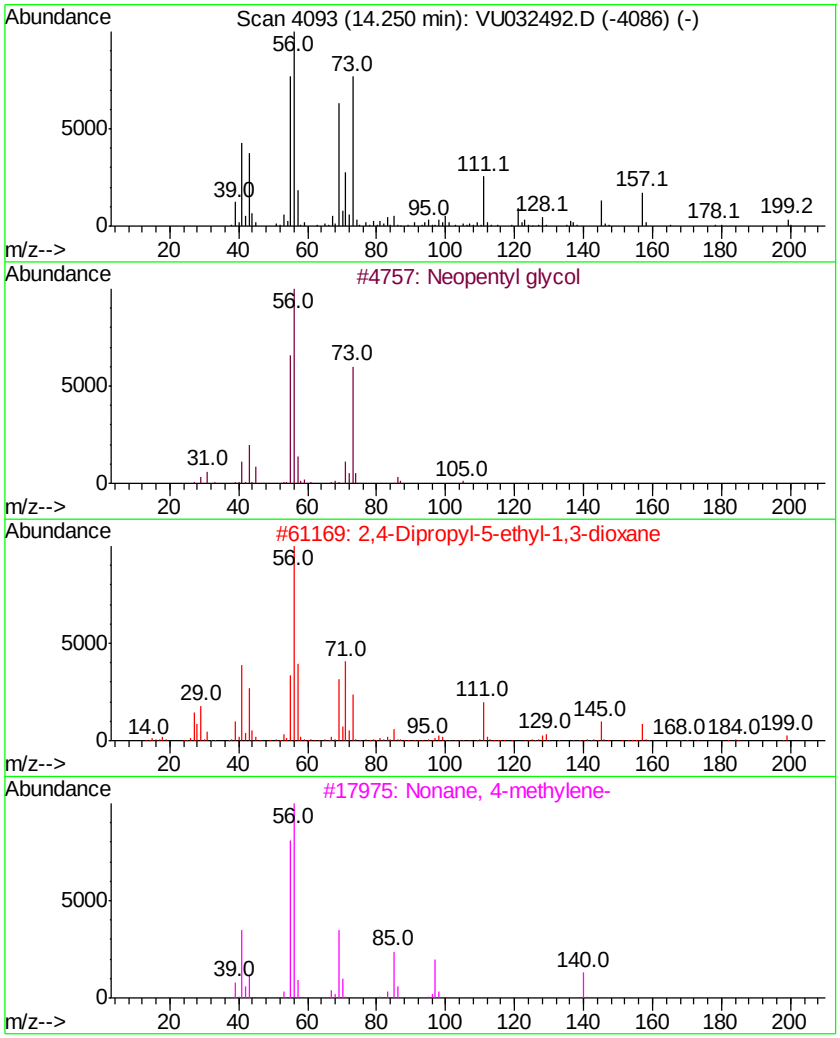
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

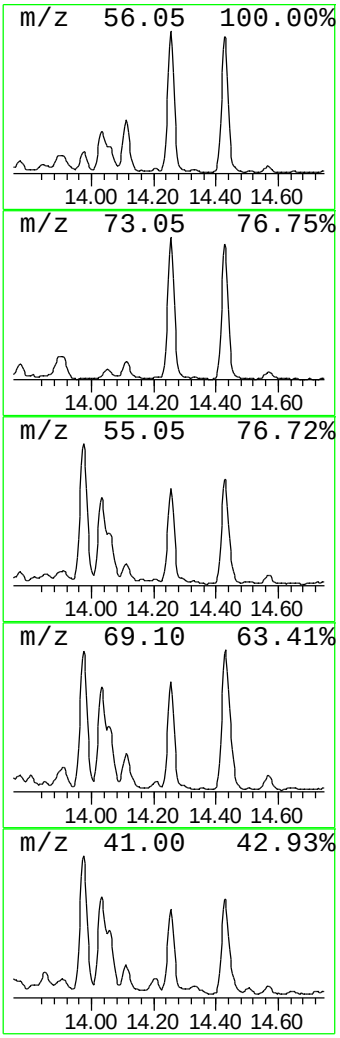
****

Peak Number 32 unknown-17 Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.25	20.27 ug/L	283558	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Neopentyl glycol	104	C5H12O2	000126-30-7	40
2	2,4-Dipropyl-5-ethyl-1,3-dioxane	200	C12H24O2	006413-83-8	40
3	Nonane, 4-methylene-	140	C10H20	033717-91-8	38
4	Oxirane, (1-methylbutyl)-	114	C7H14O	053229-39-3	37
5	Neopentyl glycol	104	C5H12O2	000126-30-7	33





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032492.D
Acq On : 06 Jun 2019 13:21
Operator : JC/SP
Sample : K3213-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J9

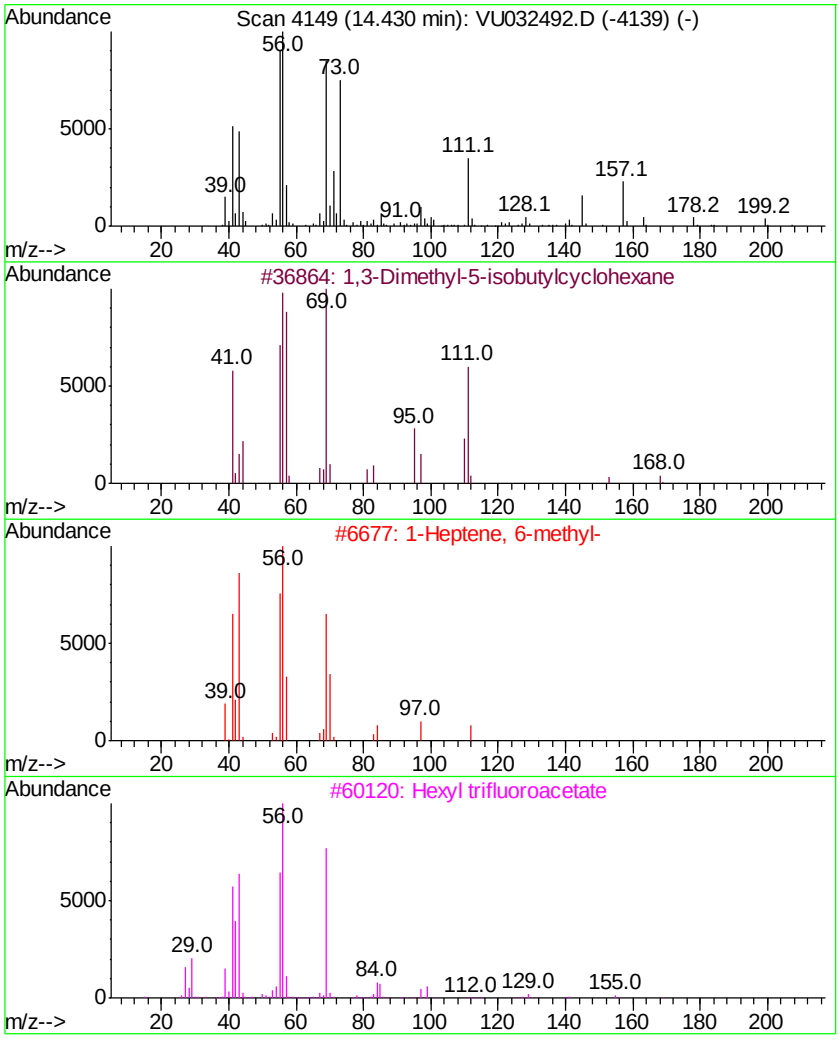
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

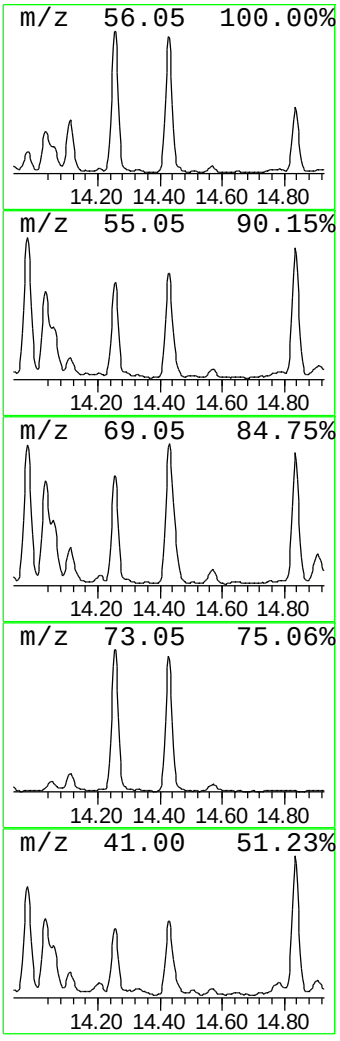
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 33 1,3-Dimethyl-5-isobutylcycl... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.43	28.05 ug/L	392356	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3-Dimethyl-5-isobutylcyclohexane	168	C12H24	013131-76-5	53
2	1-Heptene, 6-methyl-	112	C8H16	005026-76-6	50
3	Hexyl trifluoroacetate	198	C8H13F3O2	000400-61-3	50
4	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	47
5	Hexyl trifluoroacetate	198	C8H13F3O2	000400-61-3	40





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032492.D
Acq On : 06 Jun 2019 13:21
Operator : JC/SP
Sample : K3213-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

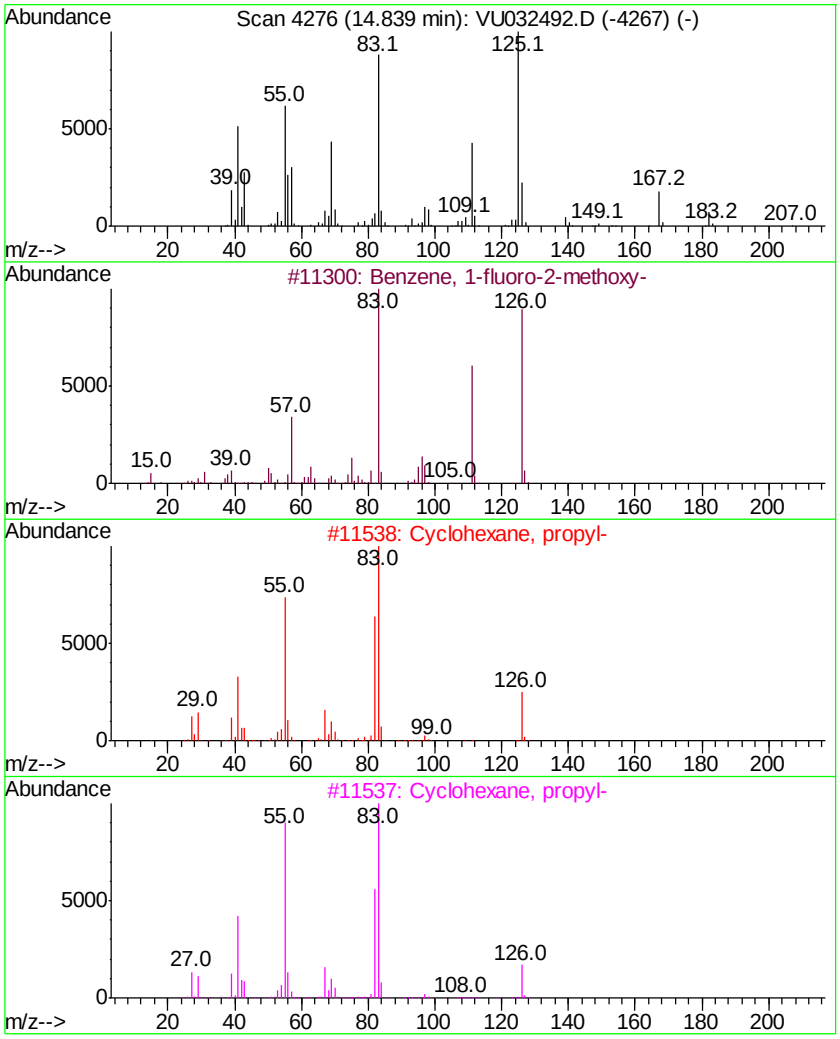
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

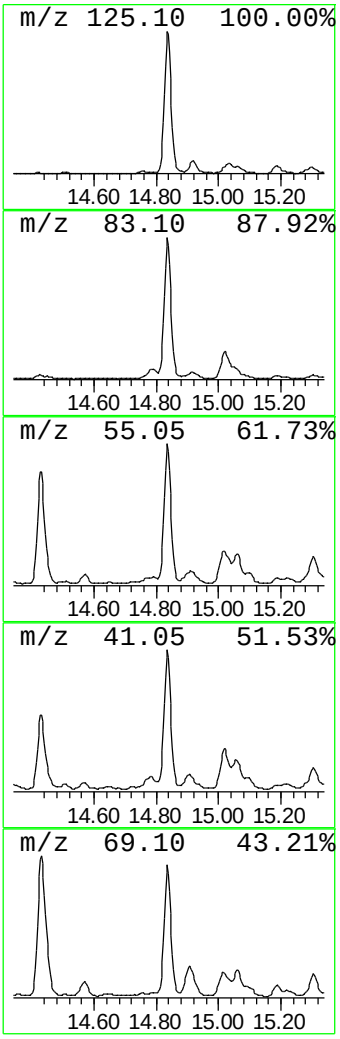
****

Peak Number 34 unknown-18 Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.84	38.31 ug/L	535946	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-fluoro-2-methoxy-	126	C7H7FO	000321-28-8	38
2	Cyclohexane, propyl-	126	C9H18	001678-92-8	30
3	Cyclohexane, propyl-	126	C9H18	001678-92-8	27
4	2-Pyrazoline, 1-methyl-4-propyl-	126	C7H14N2	033063-77-3	27
5	5-Amino-1-ethylpyrazole	111	C5H9N3	003528-58-3	27





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032492.D
Acq On : 06 Jun 2019 13:21
Operator : JC/SP
Sample : K3213-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

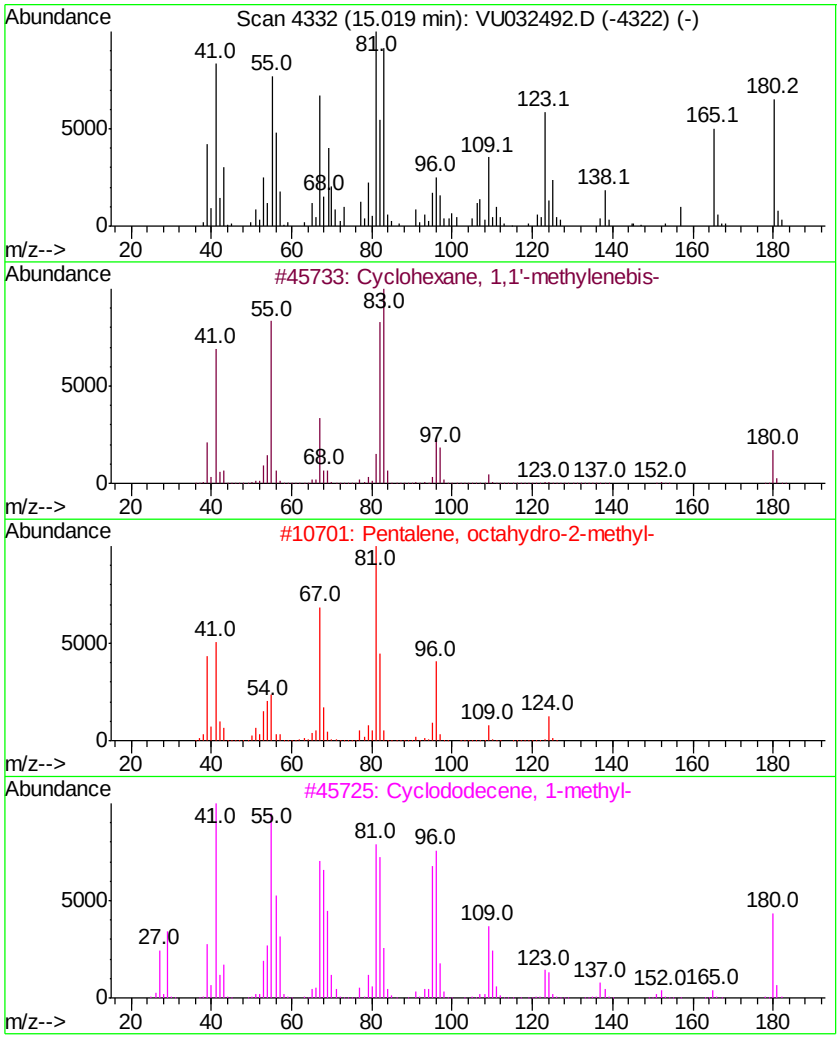
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

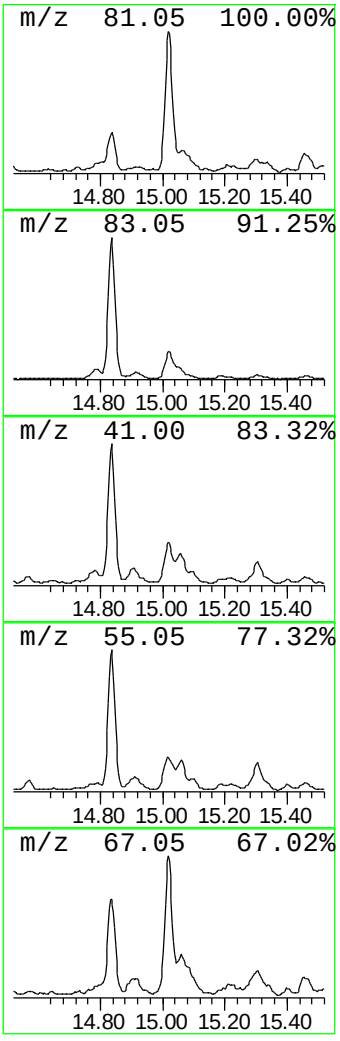
****

Peak Number 35 Cyclohexane, 1,1'-methylene... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.02	17.42 ug/L	243733	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,1'-methylenebis-	180	C13H24	003178-23-2	50
2	Pentalene, octahydro-2-methyl-	124	C9H16	003868-64-2	38
3	Cyclododecene, 1-methyl-	180	C13H24	023070-53-3	38
4	Cyclohexene, 3-(2-methylpropyl)-	138	C10H18	004104-56-7	30
5	1-Butyl-1H-1,2,4-triazole	125	C6H11N3	006086-22-2	30





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032492.D
Acq On : 06 Jun 2019 13:21
Operator : JC/SP
Sample : K3213-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

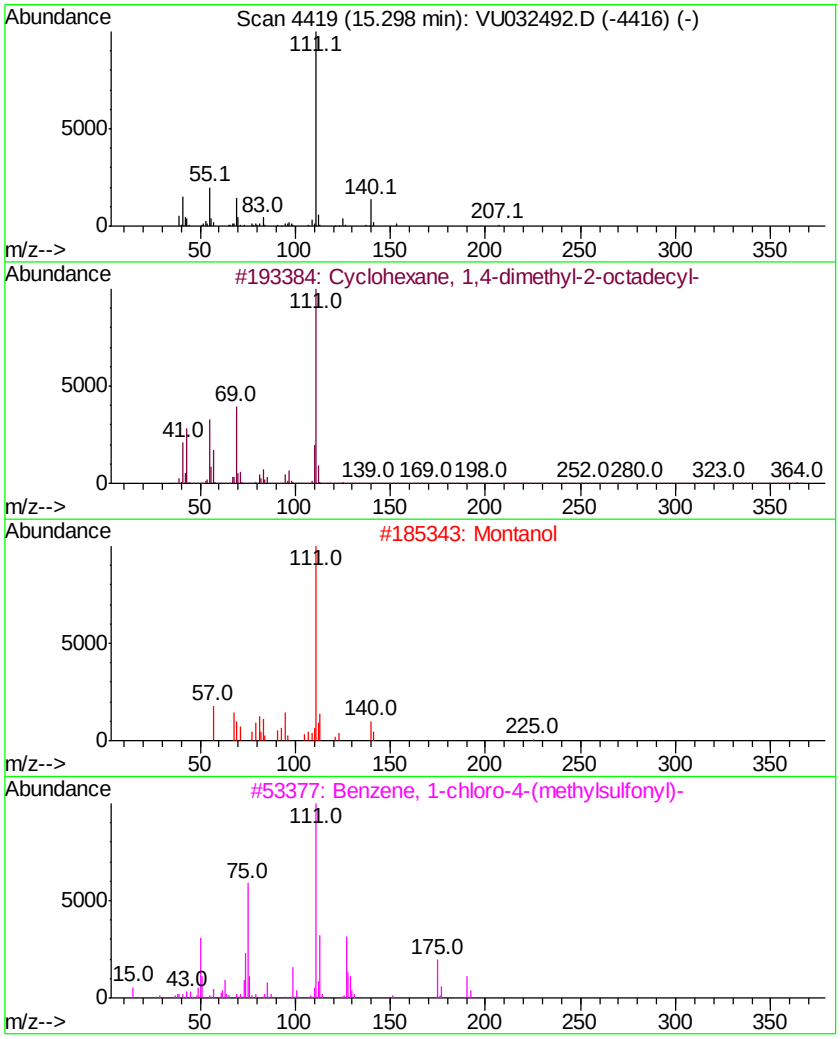
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

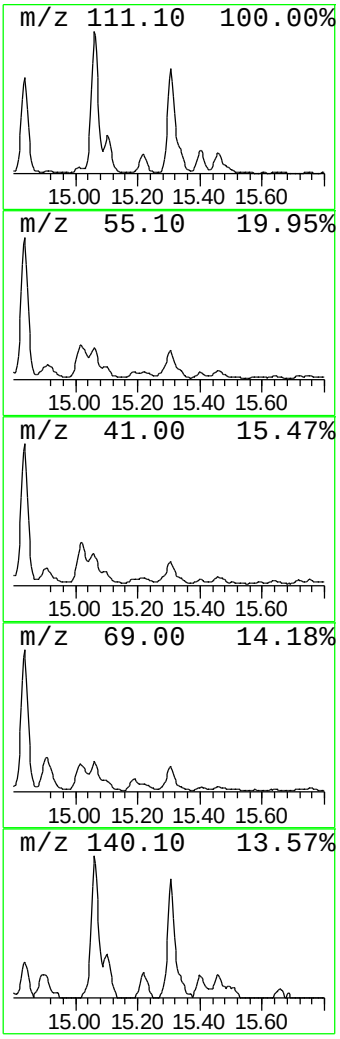
****

Peak Number 36 Cyclohexane, 1,4-dimethyl-2... Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.30	10.55 ug/L	147516	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,4-dimethyl-2-octa...	364	C26H52	055282-02-5	50
2	Montanol	352	C21H36O4	1000145-58-3	43
3	Benzene, 1-chloro-4-(methylsulfo...	190	C7H7ClO2S	000098-57-7	40
4	2-Thiophenecarboxylic acid, 3-tr...	310	C18H30O2S	1000280-66-0	39
5	Oxazole, 4-hexyl-2,5-dimethyl-	181	C11H19NO	020662-86-6	39





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032492.D
Acq On : 06 Jun 2019 13:21
Operator : JC/SP
Sample : K3213-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

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

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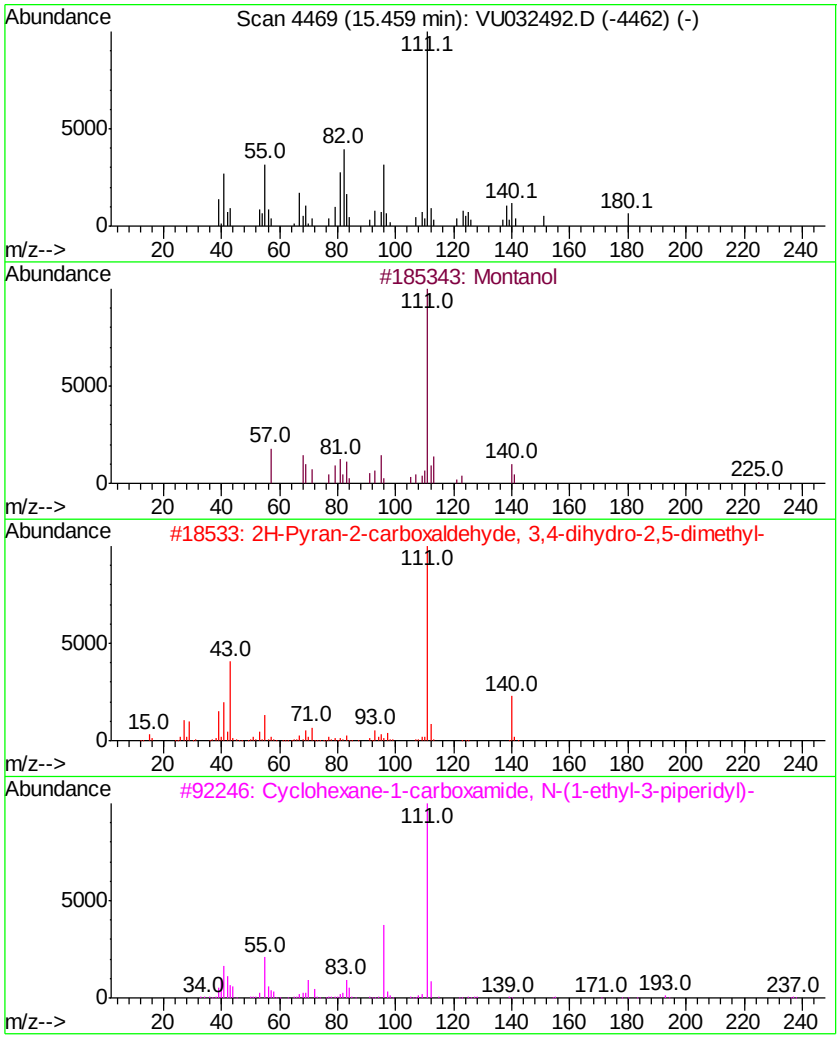
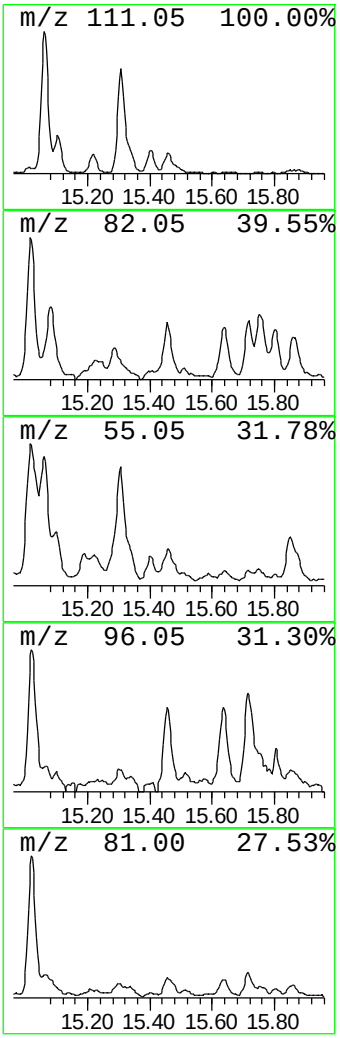
Peak Number 37 unknown-19 Concentration Rank 41

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.46	2.83 ug/L	39573	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Montanol	352	C21H36O4	1000145-58-3	43
2	2H-Pyran-2-carboxaldehyde, 3,4-d...	140	C8H12O2	001920-21-4	38
3	Cyclohexane-1-carboxamide, N-(1-...	238	C14H26N2O	1000269-92-1	37
4	2(1H)-Pyrimidinone, 4-amino-	111	C4H5N3O	000071-30-7	35
5	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	35





Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032492.D
Acq On : 06 Jun 2019 13:21
Operator : JC/SP
Sample : K3213-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.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
2-Propanol, 2-met...	2.82	4.9	ug/L	49256	1	5.88	505381	50.0
Propanal, 2-methyl-	3.18	10.2	ug/L	102677	1	5.88	505381	50.0
Butanal	3.98	86.4	ug/L	872861	1	5.88	505381	50.0
unknown-01	9.37	70.0	ug/L	974867	2	9.08	696524	50.0
unknown-02	10.64	3.9	ug/L	54456	3	11.48	699403	50.0
1,3-Dioxepane, 2-...	10.74	3.3	ug/L	46222	3	11.48	699403	50.0
unknown-03	10.78	17.3	ug/L	242491	3	11.48	699403	50.0
unknown-04	11.40	21.1	ug/L	294601	3	11.48	699403	50.0
1,1-Hexylenedioxy...	11.53	587.5	ug/L	8218750	3	11.48	699403	50.0
Oxalic acid, cycl...	11.63	10.6	ug/L	148009	3	11.48	699403	50.0
(DEL) Alkane: Cyc...	11.72	35.6	ug/L	498288	3	11.48	699403	50.0
unknown-05	11.92	81.1	ug/L	1134360	3	11.48	699403	50.0
unknown-06	12.13	5.4	ug/L	75030	3	11.48	699403	50.0
unknown-07	12.25	9.1	ug/L	127680	3	11.48	699403	50.0
(DEL) Alkane: Cyc...	12.31	3.7	ug/L	52246	3	11.48	699403	50.0
unknown-08	12.41	21.5	ug/L	300827	3	11.48	699403	50.0
unknown-09	12.51	33.9	ug/L	473992	3	11.48	699403	50.0
unknown-10	12.62	10.3	ug/L	143659	3	11.48	699403	50.0
(DEL) Alkane: Cyc...	12.69	63.8	ug/L	891938	3	11.48	699403	50.0
unknown-11	12.78	63.7	ug/L	890659	3	11.48	699403	50.0
(DEL) Alkane: Cyc...	13.00	10.2	ug/L	143273	3	11.48	699403	50.0
unknown-12	13.12	9.9	ug/L	138370	3	11.48	699403	50.0
unknown-13	13.17	11.5	ug/L	161479	3	11.48	699403	50.0
unknown-14	13.34	17.4	ug/L	243642	3	11.48	699403	50.0
(DEL) Alkane: Cyc...	13.41	31.2	ug/L	436055	3	11.48	699403	50.0
2-Cyclohexen-1-on...	13.54	3.3	ug/L	46373	3	11.48	699403	50.0
unknown-15	13.65	116.2	ug/L	1624700	3	11.48	699403	50.0
Cyclohexanone, 2-...	13.97	24.7	ug/L	345776	3	11.48	699403	50.0
unknown-16	14.03	20.8	ug/L	290486	3	11.48	699403	50.0
unknown-17	14.25	20.3	ug/L	283558	3	11.48	699403	50.0
1,3-Dimethyl-5-is...	14.43	28.1	ug/L	392356	3	11.48	699403	50.0
unknown-18	14.84	38.3	ug/L	535946	3	11.48	699403	50.0
Cyclohexane, 1,1'...	15.02	17.4	ug/L	243733	3	11.48	699403	50.0
Cyclohexane, 1,4-...	15.30	10.6	ug/L	147516	3	11.48	699403	50.0
unknown-19	15.46	2.8	ug/L	39573	3	11.48	699403	50.0