LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU060719\
Data File : VU032537.D
Acq On : 07 Jun 2019 12:41
Operator : JC/SP
Sample : K3215-05DL 50X
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8H9DL

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	24	28	35	rVB2	4216	3846	0.47%	0.035%
2	1.396	86	95	108	rVB	124733	131952	15.98%	1.199%
3	1.675	174	182	195	rBV	90550	111406	13.49%	1.013%
4	2.267	356	366	374	rBV	189675	287469	34.82%	2.613%
5	2.315	374	381	400	rVB	163967	255080	30.89%	2.319%
6	2.441	409	420	436	rBV	11580	21226	2.57%	0.193%
7	2.695	490	499	508	rVV2	3668	6367	0.77%	0.058%
8	2.820	531	538	540	rBV3	1157	1343	0.16%	0.012%
9	3.071	611	616	623	rBV2	381	647	0.08%	0.006%
10	3.180	637	650	670	rBV3	8100	19456	2.36%	0.177%
11	3.286	680	683	688	rVV2	419	291	0.04%	0.003%
12	3.318	688	693	696	rVV3	273	273	0.03%	0.002%
13	3.441	722	731	742	rVV3	1223	2627	0.32%	0.024%
14	3.984	887	900	931	rBV2	44386	119298	14.45%	1.084%
15	4.167	946	957	982	rBV	69415	181583	21.99%	1.650%
16	4.505	1060	1062	1071	rVB3	744	493	0.06%	0.004%
17	4.640	1088	1104	1129	rBV	128917	303864	36.80%	2.762%
18	4.871	1174	1176	1178	rBV2	495	320	0.04%	0.003%
19	4.900	1178	1185	1186	rBV2	943	1092	0.13%	0.010%
20	5.138	1253	1259	1261	rBV	354	270	0.03%	0.002%
21	5.334	1295	1320	1352	rBV2	275870	825677	100.00%	7.505%
22	5.881	1477	1490	1523	rVB	241187	473917	57.40%	4.308%
23	6.190	1573	1586	1600	rBV8	9771	23800	2.88%	0.216%
24	6.325	1614	1628	1648	rBV	171669	344460	41.72%	3.131%
25	6.424	1651	1659	1676	rVB3	8542	18681	2.26%	0.170%
26	6.595	1703	1712	1720	rBV5	1891	3337	0.40%	0.030%
27	6.791	1769	1773	1778	rBV2	385	281	0.03%	0.003%
28	7.222	1893	1907	1932	rBV	101843	185213	22.43%	1.683%
29	7.456	1968	1980	1997	rVV	69937	125304	15.18%	1.139%
30	7.559	2000	2012	2026	rVV	375066	652894	79.07%	5.934%
31	7.633	2027	2035	2052	rVB	48276	88240	10.69%	0.802%
32	7.846	2091	2101	2114	rBV	68446	119234	14.44%	1.084%
33	8.077	2169	2173	2174	rBV	588	376	0.05%	0.003%
34	8.087	2174	2176	2182	rVB2	716	566	0.07%	0.005%

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Sample : K3215-05DL 50X
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8H9DL

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	8.148	2190	2195	2199	rBV2	381	419	0.05%	0.004%
36	8.231	2213	2221	2231	rBV3	9020	15871	1.92%	0.144%
37	8.305	2232	2244	2257	rBV	436372	735741	89.11%	6.688%
38	8.479	2288	2298	2321	rBV	62506	113331	13.73%	1.030%
39	8.794	2388	2396	2400	rVV3	251	336	0.04%	0.003%
40	9.083	2463	2486	2507	rBV	351643	623991	75.57%	5.672%
41	9.251	2529	2538	2542	rBV	8094	12351	1.50%	0.112%
42	9.286	2542	2549	2565	rVV2	41469	78440	9.50%	0.713%
43	9.370	2566	2575	2589	rVB	59086	99994	12.11%	0.909%
44	9.456	2594	2602	2619	rVB2	15817	27364	3.31%	0.249%
45	9.543	2620	2629	2638	rBV	5938	10527	1.27%	0.096%
46	9.601	2639	2647	2665	rVB2	15866	26419	3.20%	0.240%
47	9.775	2691	2701	2708	rBV	30941	50824	6.16%	0.462%
48	9.813	2709	2713	2730	rVB	19171	28883	3.50%	0.263%
49	9.919	2730	2746	2757	rBV4	17975	44066	5.34%	0.401%
50	9.980	2758	2765	2771	rBV3	6121	9667	1.17%	0.088%
51	10.164	2809	2822	2833	rBV4	4084	7573	0.92%	0.069%
52	10.228	2833	2842	2858	rBV4	7216	12852	1.56%	0.117%
53	10.302	2858	2865	2866	rBV4	1216	1228	0.15%	0.011%
54	10.392	2875	2893	2897	rBV	89270	145514	17.62%	1.323%
55	10.427	2898	2904	2917	rVB	244194	376024	45.54%	3.418%
56	10.495	2917	2925	2932	rBV	31355	43184	5.23%	0.393%
57	10.543	2932	2940	2950	rBV3	40245	69350	8.40%	0.630%
58	10.678	2975	2982	2999	rVB	35284	70953	8.59%	0.645%
59	10.775	3002	3012	3025	rVB2	37193	71738	8.69%	0.652%
60	10.913	3043	3055	3065	rBV2	159429	242627	29.39%	2.205%
61	10.968	3065	3072	3086	rVB2	30031	49214	5.96%	0.447%
62	11.061	3093	3101	3116	rVB	34223	51765	6.27%	0.471%
63	11.144	3117	3127	3139	rBV	57296	88306	10.69%	0.803%
64	11.234	3144	3155	3174	rBV2	181734	324240	39.27%	2.947%
65	11.431	3198	3216	3220	rBV7	16574	43055	5.21%	0.391%
66	11.479	3221	3231	3239	rBV	384914	604595	73.22%	5.495%
67	11.530	3239	3247	3256	rVB	409875	604904	73.26%	5.498%
68	11.627	3270	3277	3283	rBV3	8518	12415	1.50%	0.113%
69	11.739	3299	3312	3337	rBV2	236359	461819	55.93%	4.198%
70	11.855	3337	3348	3360	rVV	390846	652853	79.07%	5.934%
71	11.916	3361	3367	3379	rVB	45446	72937	8.83%	0.663%

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ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8H9DL

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	12.045	3399	3407	3426	rVV2	33918	57126	6.92%	0.519%
73	12.141	3426	3437	3461	rVV	172677	293746	35.58%	2.670%
74	12.251	3465	3471	3484	rVB4	10691	17006	2.06%	0.155%
75	12.328	3489	3495	3498	rBV5	3195	4015	0.49%	0.036%
76	12.411	3512	3521	3525	rBV5	6974	11696	1.42%	0.106%
77	12.508	3540	3551	3560	rBV6	10838	23537	2.85%	0.214%
78	12.691	3598	3608	3623	rVB5	41265	73613	8.92%	0.669%
79	12.781	3626	3636	3647	rVB	28197	42273	5.12%	0.384%
80	13.003	3697	3705	3716	rBV3	15925	27033	3.27%	0.246%
81	13.119	3736	3741	3749	rVB5	7004	8792	1.06%	0.080%
82	13.344	3803	3811	3822	rVB6	5832	9471	1.15%	0.086%
83	13.414	3823	3833	3848	rVV4	12222	24496	2.97%	0.223%
84	13.501	3850	3860	3872	rVB6	6964	13000	1.57%	0.118%
85	13.607	3884	3893	3897	rBV2	11975	17272	2.09%	0.157%
86	13.646	3898	3905	3917	rVB	45208	73792	8.94%	0.671%
87	13.746	3929	3936	3952	rVB2	7983	15093	1.83%	0.137%
88	13.852	3964	3969	3978	rVB7	3735	4844	0.59%	0.044%
89	14.045	4020	4029	4045	rBV8	11580	25214	3.05%	0.229%
90	14.202	4071	4078	4084	rBV6	2084	3503	0.42%	0.032%
91	14.257	4087	4095	4105	rVV3	11066	16599	2.01%	0.151%
92	14.369	4127	4130	4139	rVB9	1922	2367	0.29%	0.022%
93	14.430	4139	4149	4165	rBV3	12679	21702	2.63%	0.197%
94	14.614	4202	4206	4213	rBV4	1092	1521	0.18%	0.014%
95	14.842	4269	4277	4285	rBV4	2807	4324	0.52%	0.039%
96	14.903	4288	4296	4307	rBV9	1474	3289	0.40%	0.030%
97	15.009	4323	4329	4338	rBV6	2294	3484	0.42%	0.032%
98	15.067	4342	4347	4362	rVB8	3108	5629	0.68%	0.051%
99	15.675	4531	4536	4539	rBV4	608	663	0.08%	0.006%
100	15.784	4566	4570	4571	rBV	511	376	0.05%	0.003%

Sum of corrected areas: 11001729

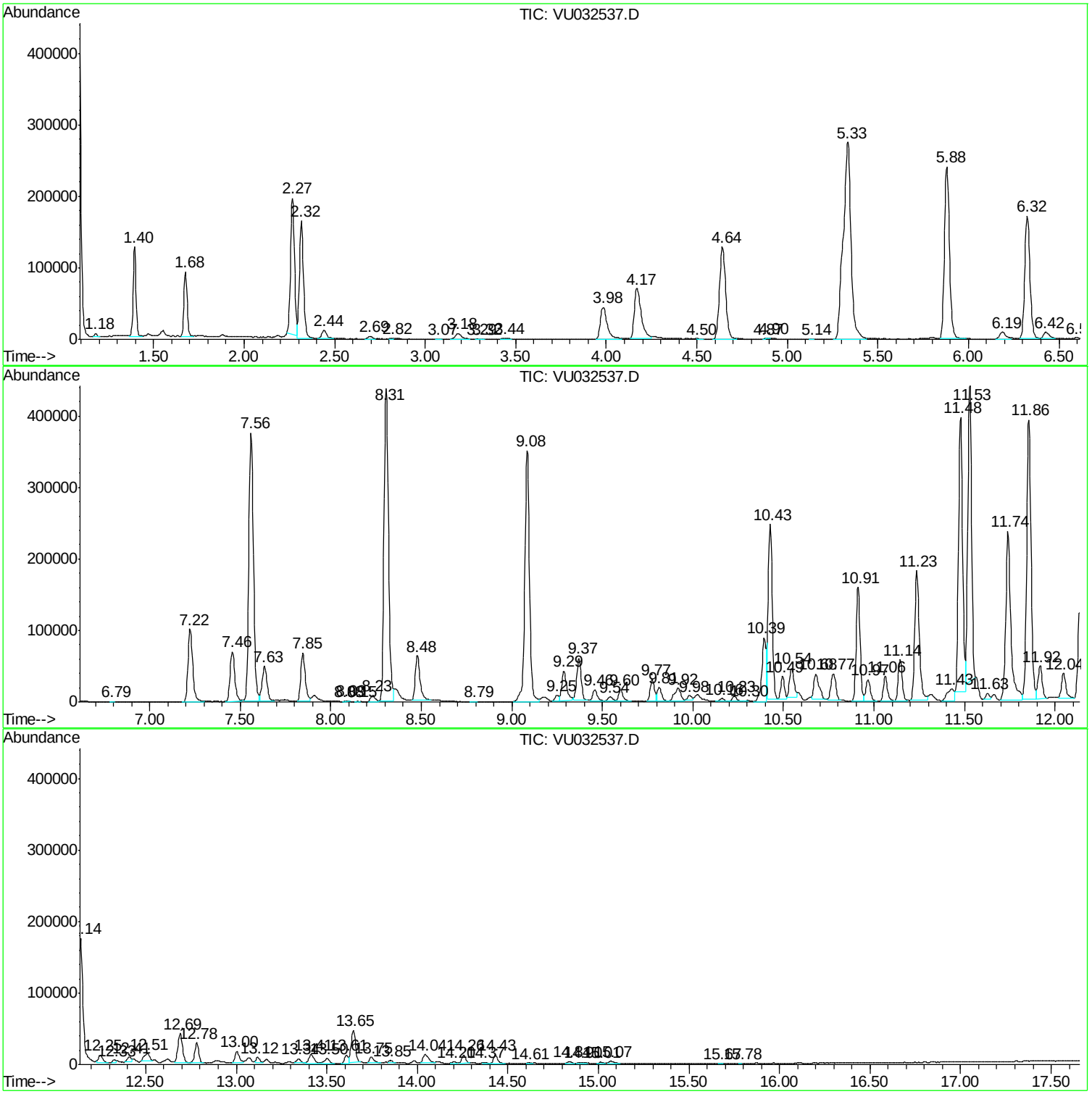
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060719\
Data File : VU032537.D
Acq On : 07 Jun 2019 12:41
Operator : JC/SP
Sample : K3215-05DL 50X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8H9DL

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



Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU060719\
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Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8H9DL

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

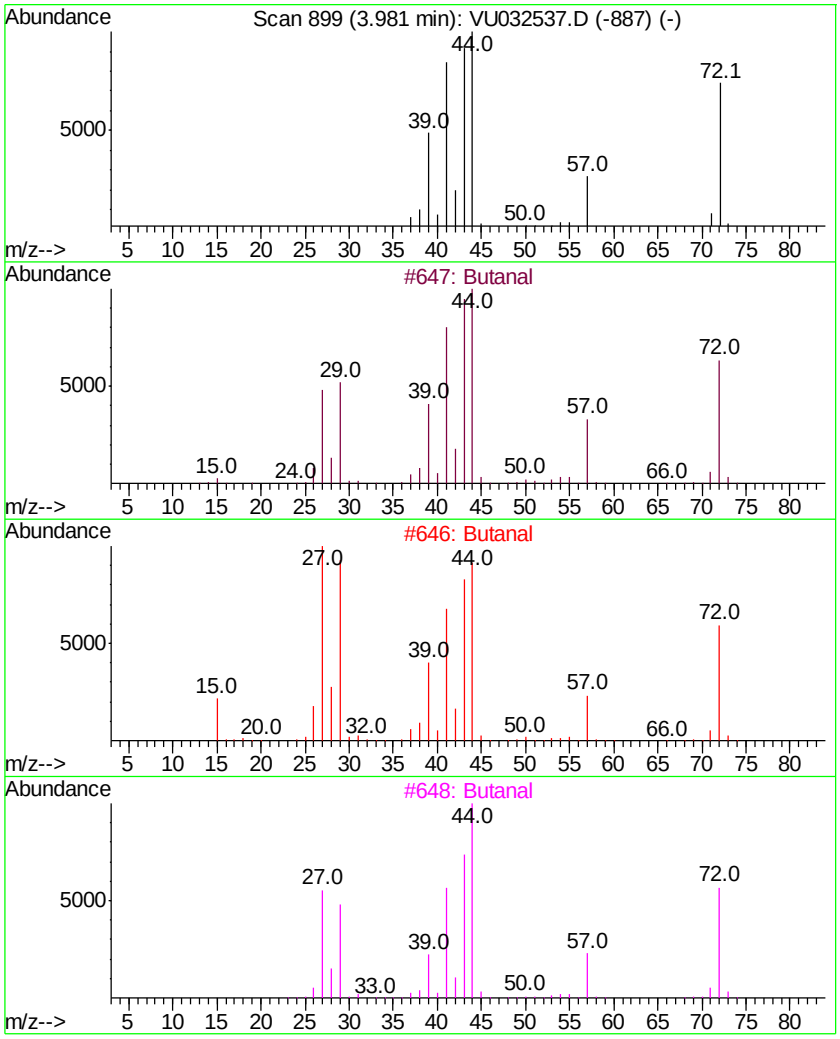
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

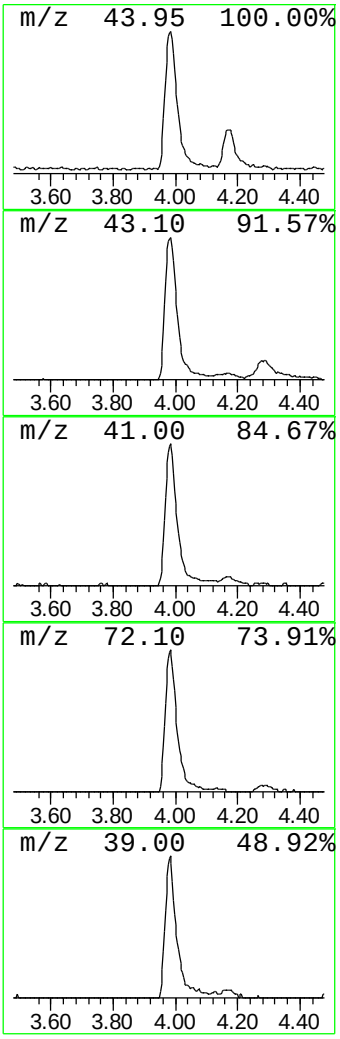
****

Peak Number 1 Butanal Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.98	12.59 ug/L	119298	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	64
4	Butanal	72	C4H8O	000123-72-8	59
5	Ethene, ethoxy-	72	C4H8O	000109-92-2	50





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060719\
Data File : VU032537.D
Acq On : 07 Jun 2019 12:41
Operator : JC/SP
Sample : K3215-05DL 50X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8H9DL

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

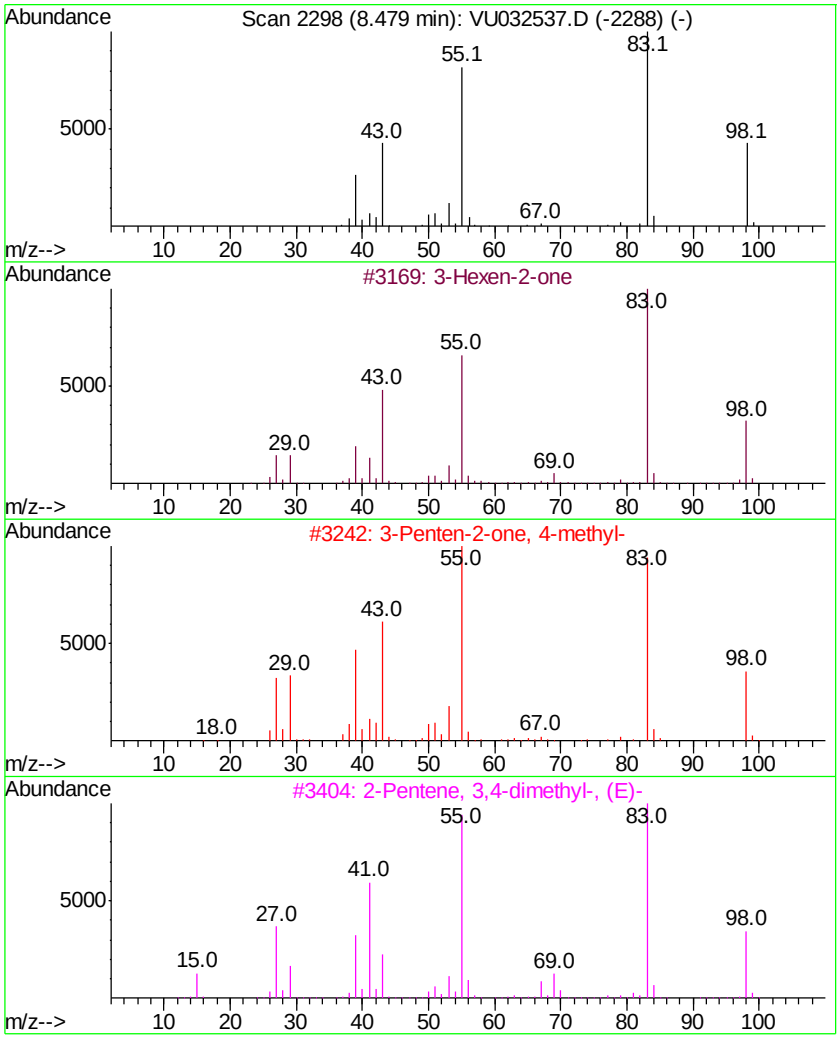
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

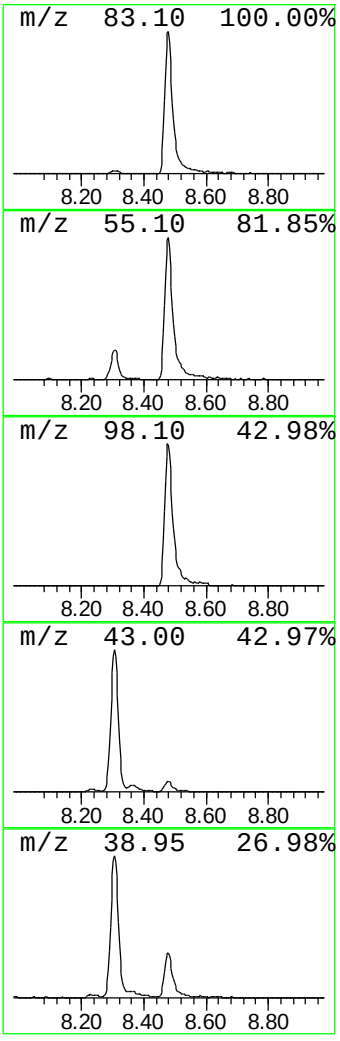
****

Peak Number 3 3-Hexen-2-one Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.48	9.08 ug/L	113331	Chlorobenzene-d5	9.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Hexen-2-one	98	C6H10O	000763-93-9	91
2	3-Penten-2-one, 4-methyl-	98	C6H10O	000141-79-7	91
3	2-Pentene, 3,4-dimethyl-, (E)-	98	C7H14	004914-92-5	90
4	3-Penten-2-one, 4-methyl-	98	C6H10O	000141-79-7	87
5	3-Penten-2-one, 4-methyl-	98	C6H10O	000141-79-7	87





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU060719\
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ClientSampleId : DB8H9DL

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

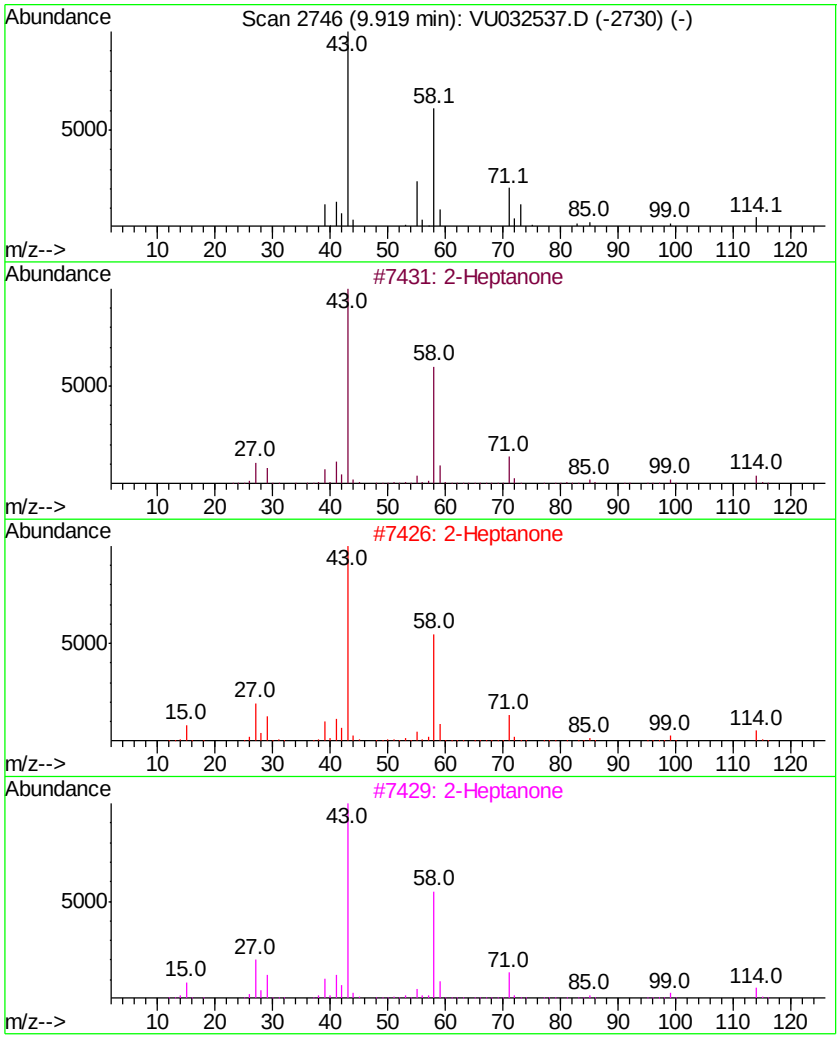
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

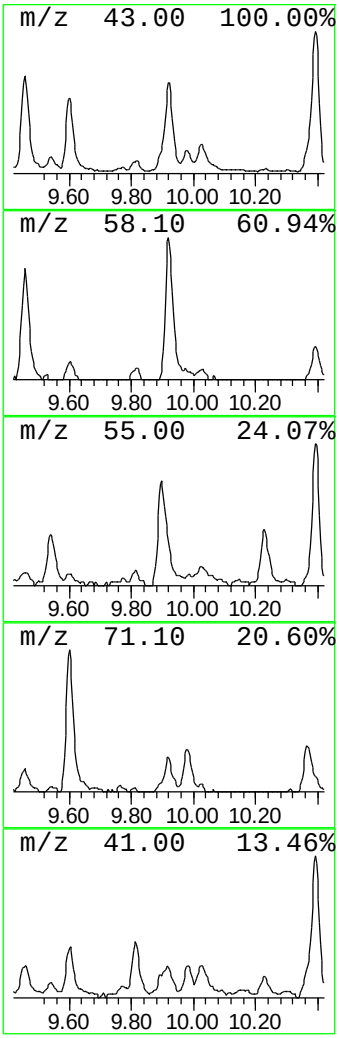
****

Peak Number 4 2-Heptanone Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.92	3.53 ug/L	44066	Chlorobenzene-d5	9.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Heptanone	114	C7H14O	000110-43-0	72
2	2-Heptanone	114	C7H14O	000110-43-0	64
3	2-Heptanone	114	C7H14O	000110-43-0	59
4	2-Heptanone	114	C7H14O	000110-43-0	50
5	2-Pentanone, 4,4-dimethyl-	114	C7H14O	000590-50-1	46





Library Search Compound Report

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ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8H9DL

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

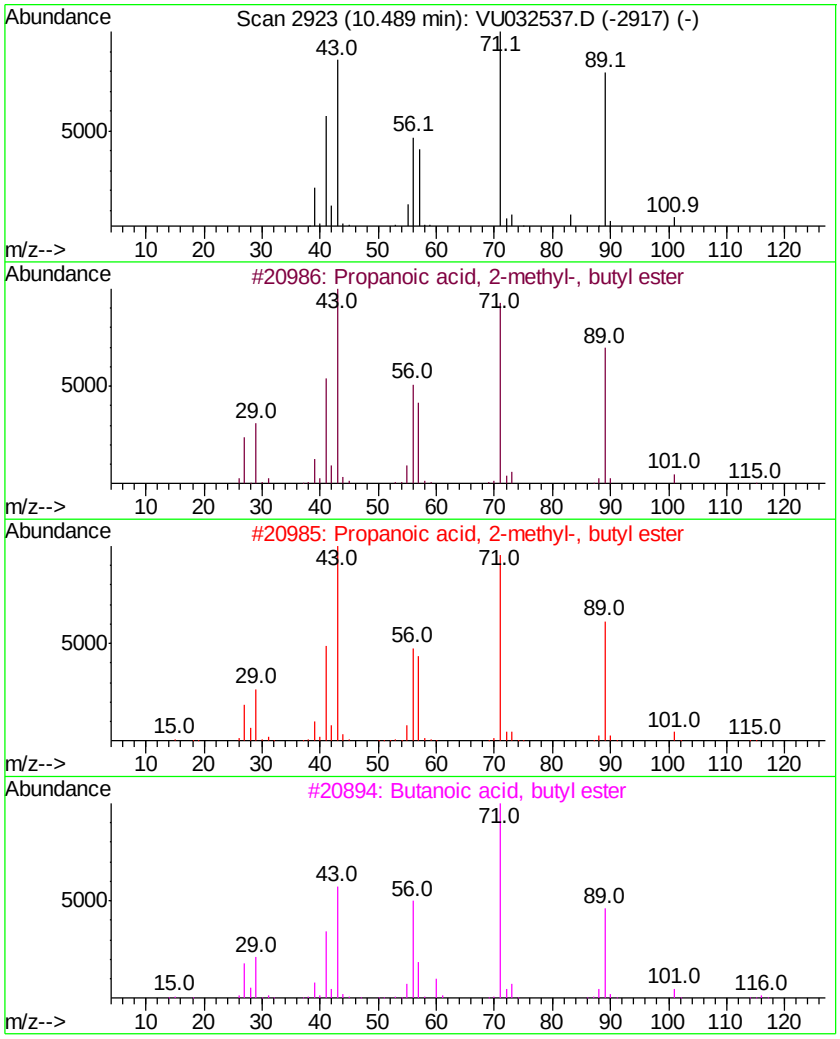
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

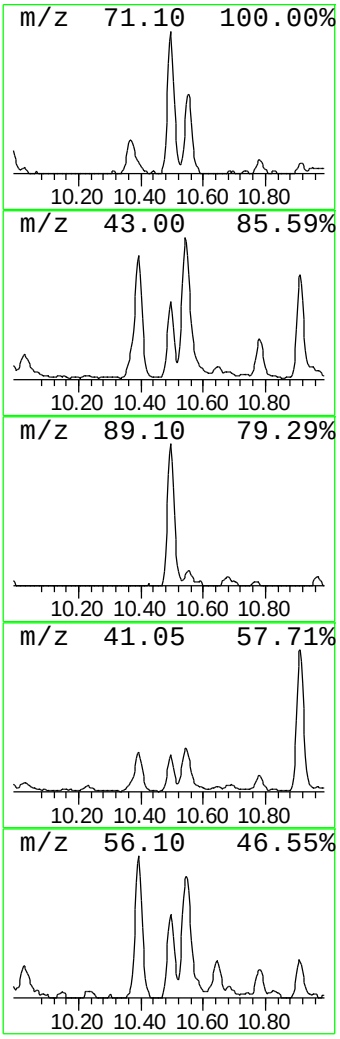
****

Peak Number 5 Propanoic acid, 2-methyl-, ... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.49	3.57 ug/L	43184	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propanoic acid, 2-methyl-, butyl...	144	C8H16O2	000097-87-0	90
2	Propanoic acid, 2-methyl-, butyl...	144	C8H16O2	000097-87-0	90
3	Butanoic acid, butyl ester	144	C8H16O2	000109-21-7	74
4	Butanoic acid, hexyl ester	172	C10H20O2	002639-63-6	74
5	Propanoic acid, 2-methyl-, butyl...	144	C8H16O2	000097-87-0	56





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060719\
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ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8H9DL

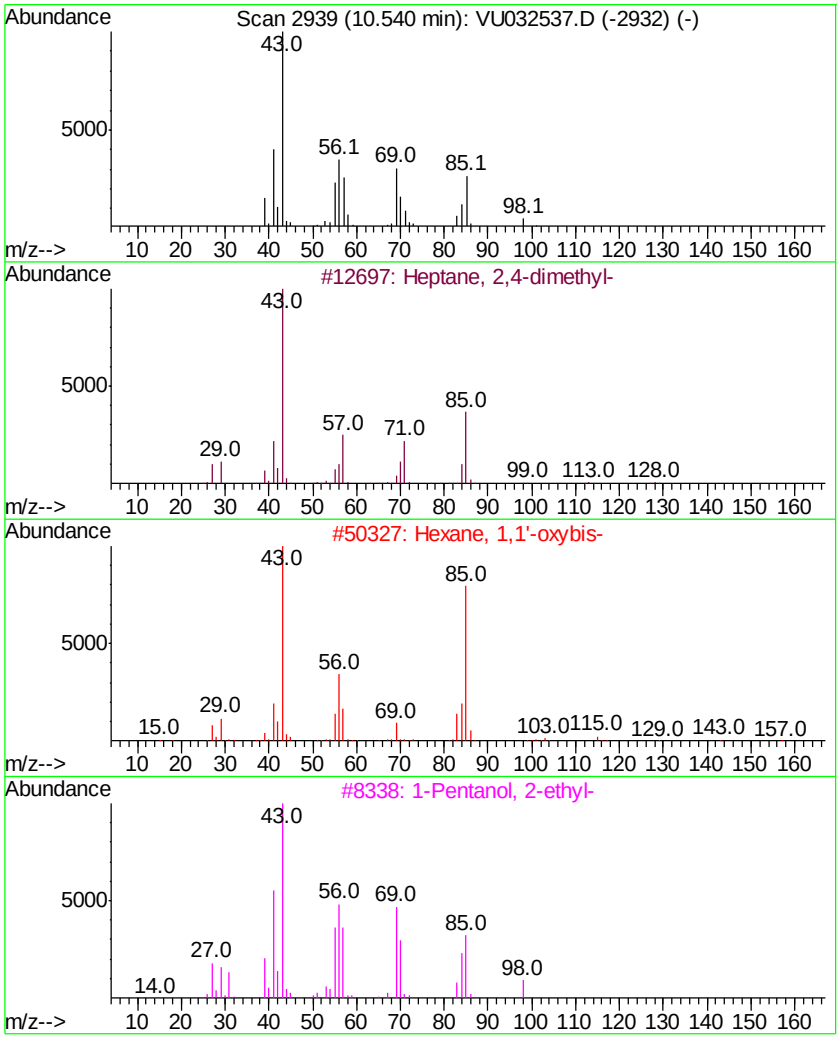
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

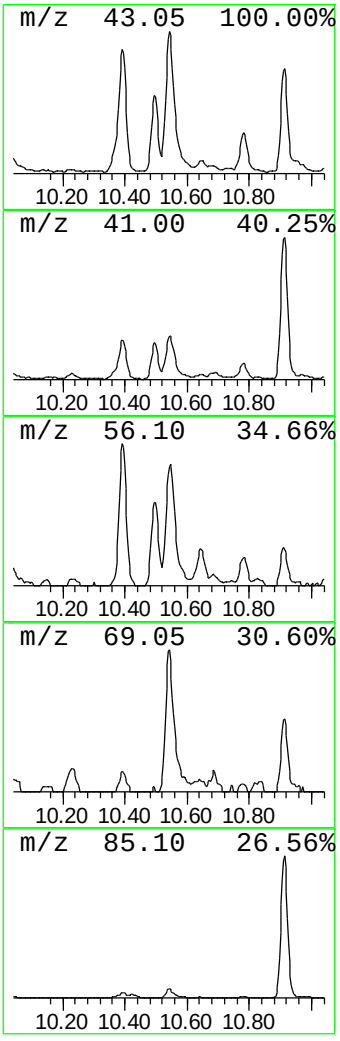
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 (DEL) Alkane: Straight-Chai... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.54	5.74 ug/L	69350	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	59
2	Hexane, 1,1'-oxybis-	186	C12H26O	000112-58-3	53
3	1-Pentanol, 2-ethyl-	116	C7H16O	027522-11-8	50
4	Hexane, 2,3,5-trimethyl-	128	C9H20	001069-53-0	45
5	Oxalic acid, isohexyl pentyl ester	244	C13H24O4	1000309-32-8	45





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060719\
Data File : VU032537.D
Acq On : 07 Jun 2019 12:41
Operator : JC/SP
Sample : K3215-05DL 50X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8H9DL

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

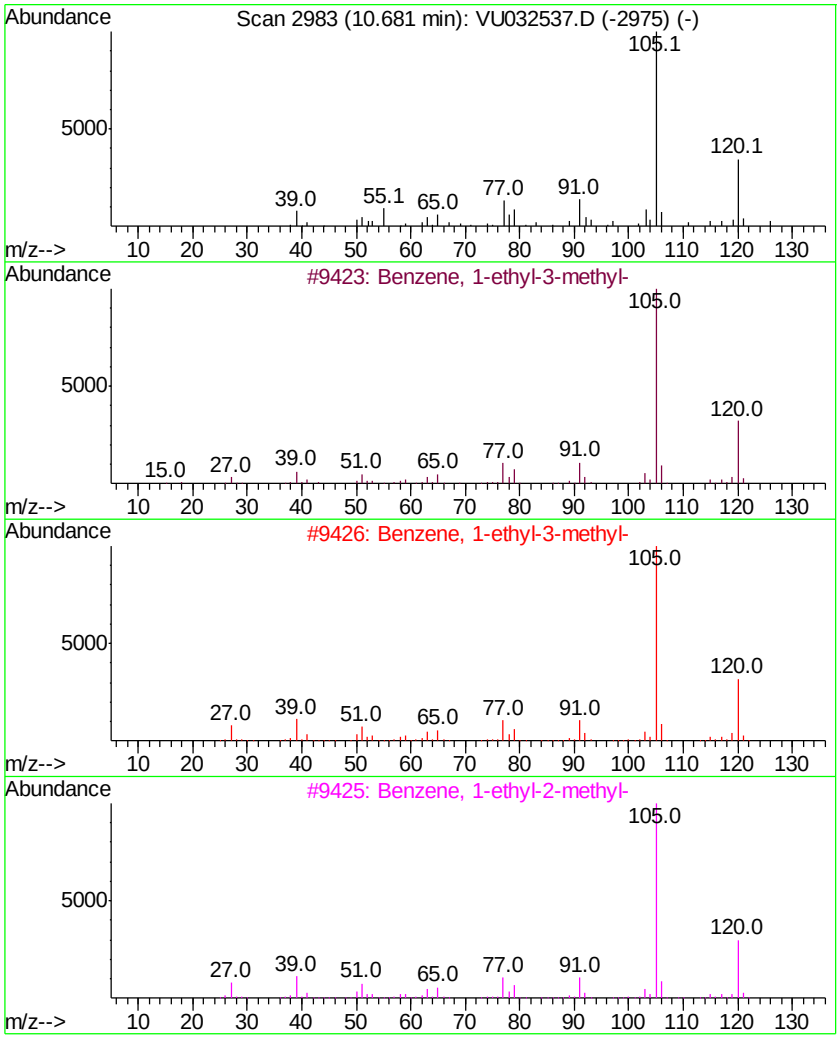
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

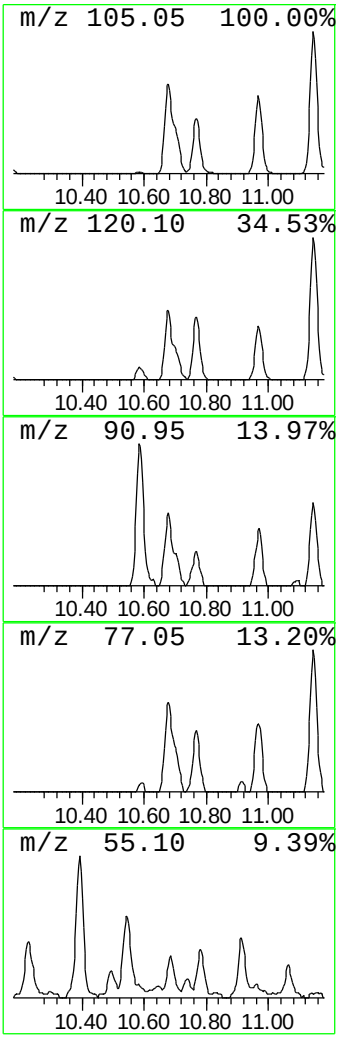
****

Peak Number 7 Benzene, 1-ethyl-3-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.68	5.87 ug/L	70953	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	97
2	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	95
3	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95
4	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	94
5	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	91





Library Search Compound Report

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Data File : VU032537.D
Acq On : 07 Jun 2019 12:41
Operator : JC/SP
Sample : K3215-05DL 50X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8H9DL

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

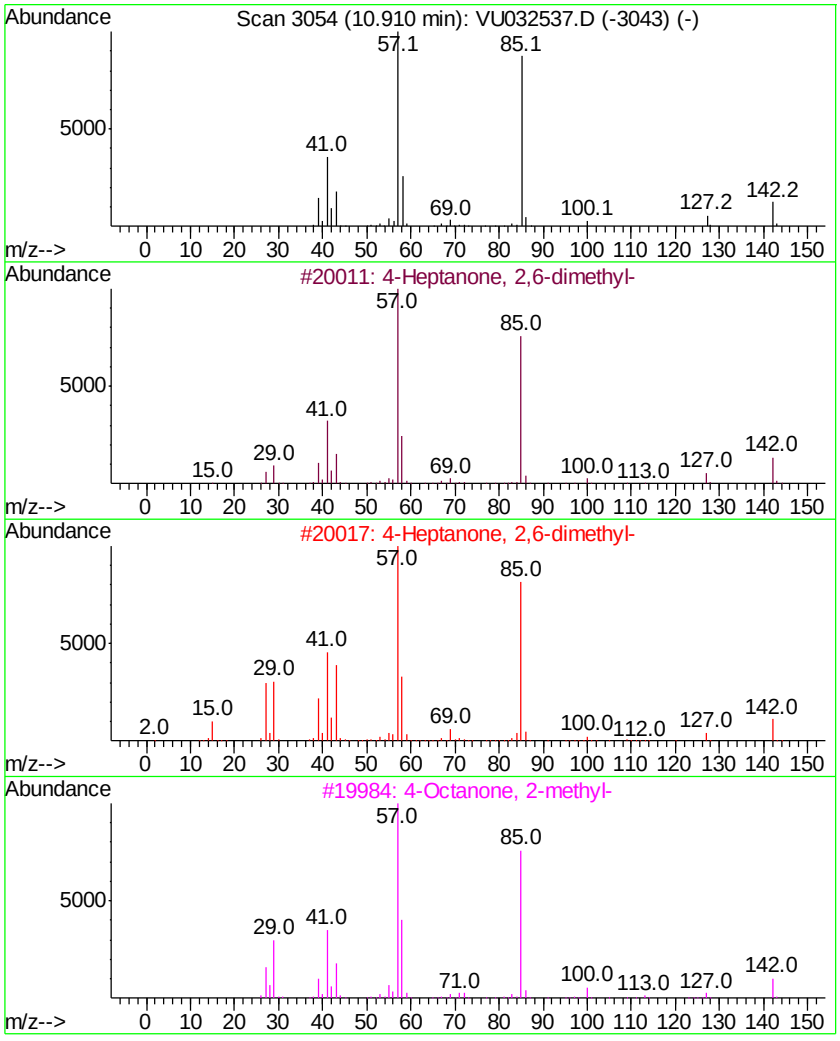
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

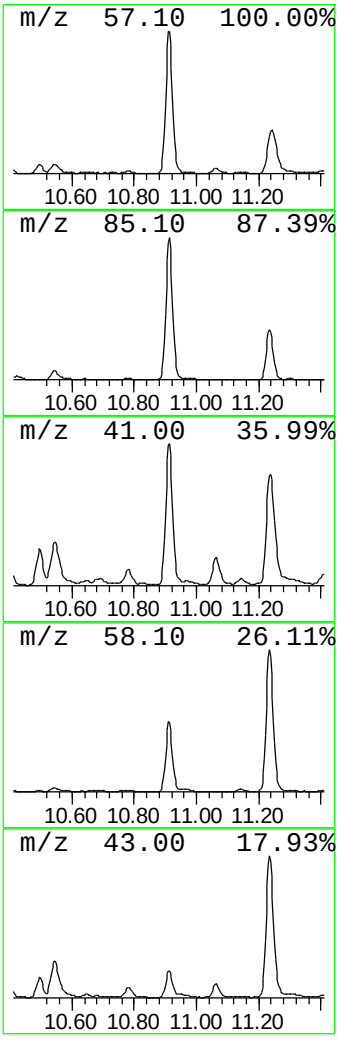
****

Peak Number 9 4-Heptanone, 2,6-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.91	20.07 ug/L	242627	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Heptanone, 2,6-dimethyl-	142	C9H18O	000108-83-8	94
2	4-Heptanone, 2,6-dimethyl-	142	C9H18O	000108-83-8	91
3	4-Octanone, 2-methyl-	142	C9H18O	007492-38-8	64
4	5-Nonanone	142	C9H18O	000502-56-7	64
5	5-Nonanone	142	C9H18O	000502-56-7	59





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Data File : VU032537.D
Acq On : 07 Jun 2019 12:41
Operator : JC/SP
Sample : K3215-05DL 50X
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8H9DL

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

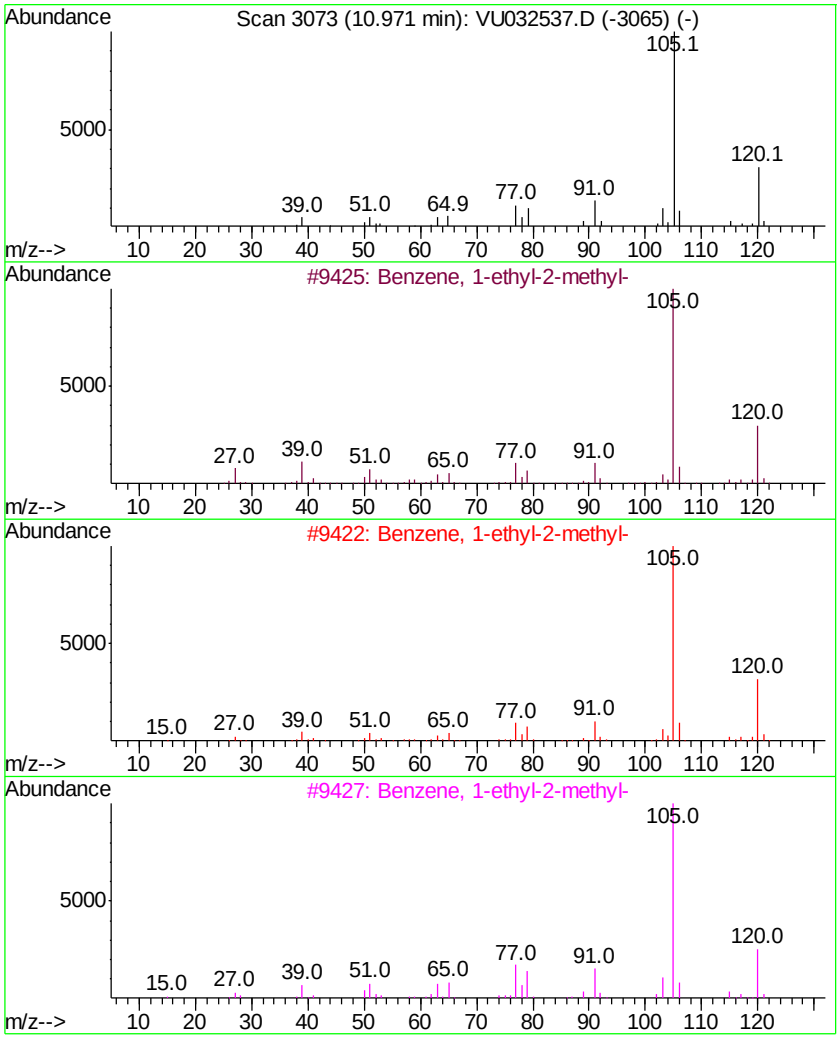
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

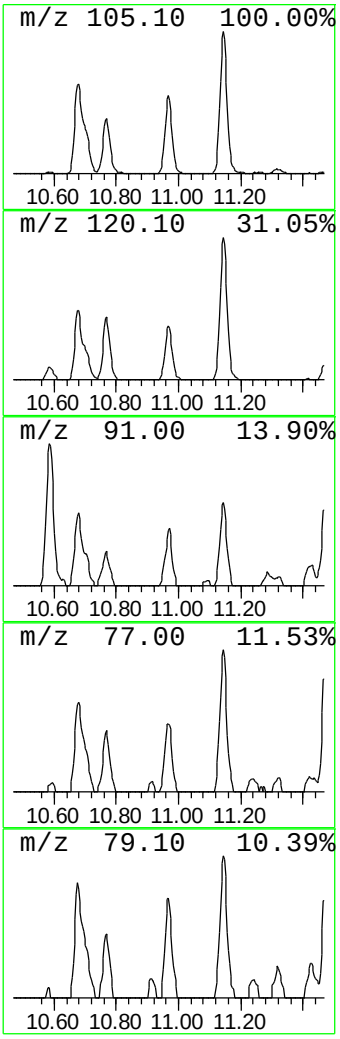
****

Peak Number 10 Benzene, 1-ethyl-2-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.97	4.07 ug/L	49214	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	95
2	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	94
3	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	94
4	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	91
5	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	91





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Data File : VU032537.D
Acq On : 07 Jun 2019 12:41
Operator : JC/SP
Sample : K3215-05DL 50X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8H9DL

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

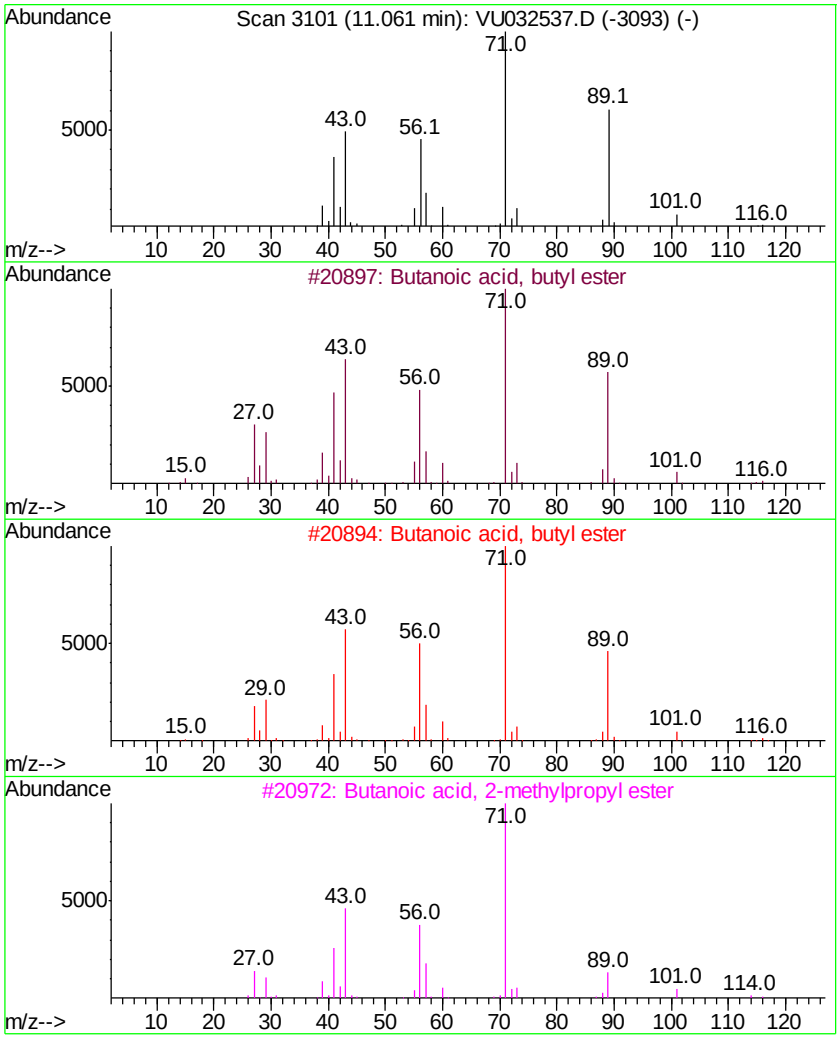
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

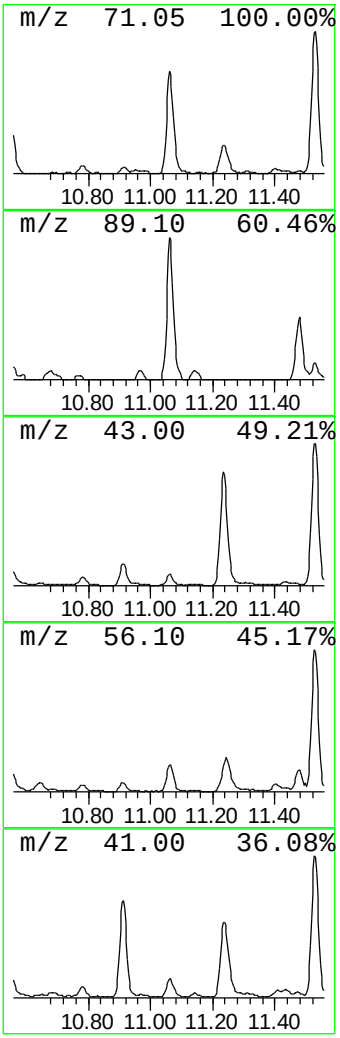
****

Peak Number 11 Butanoic acid, butyl ester Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.06	4.28 ug/L	51765	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butanoic acid, butyl ester	144	C8H16O2	000109-21-7	90
2	Butanoic acid, butyl ester	144	C8H16O2	000109-21-7	90
3	Butanoic acid, 2-methylpropyl ester	144	C8H16O2	000539-90-2	72
4	Butanoic acid, butyl ester	144	C8H16O2	000109-21-7	64
5	Butanoic acid, hexyl ester	172	C10H20O2	002639-63-6	64





Library Search Compound Report

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Data File : VU032537.D
Acq On : 07 Jun 2019 12:41
Operator : JC/SP
Sample : K3215-05DL 50X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8H9DL

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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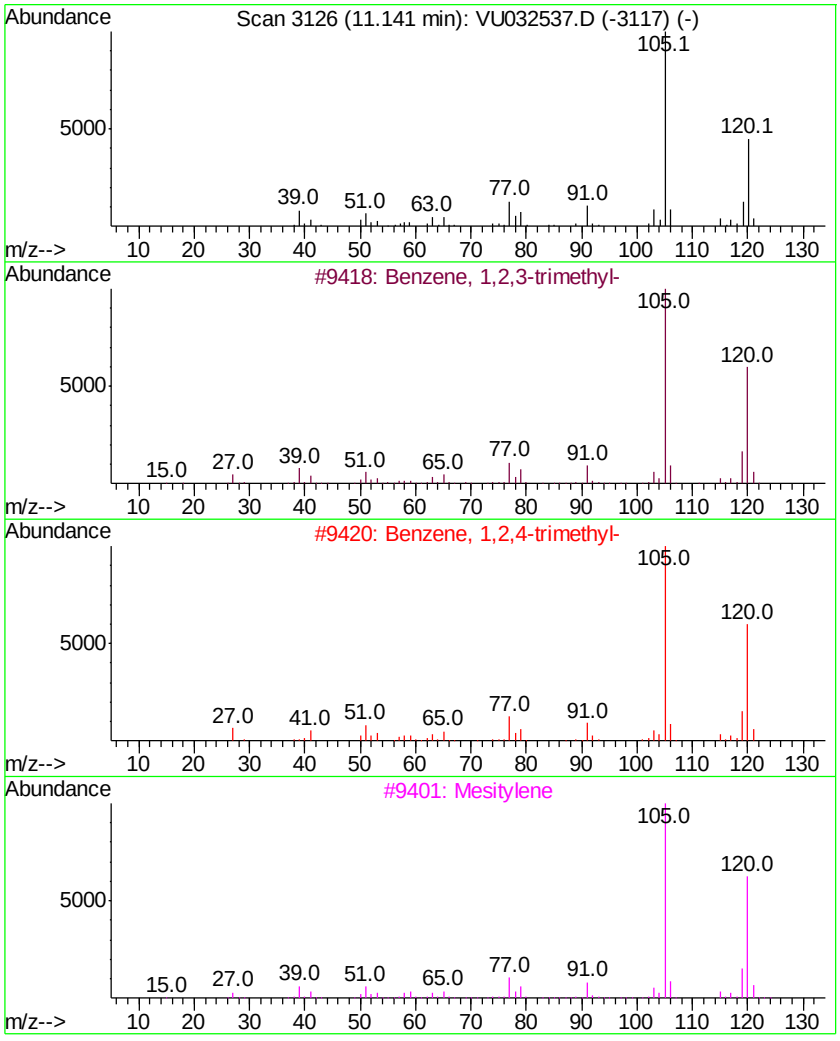
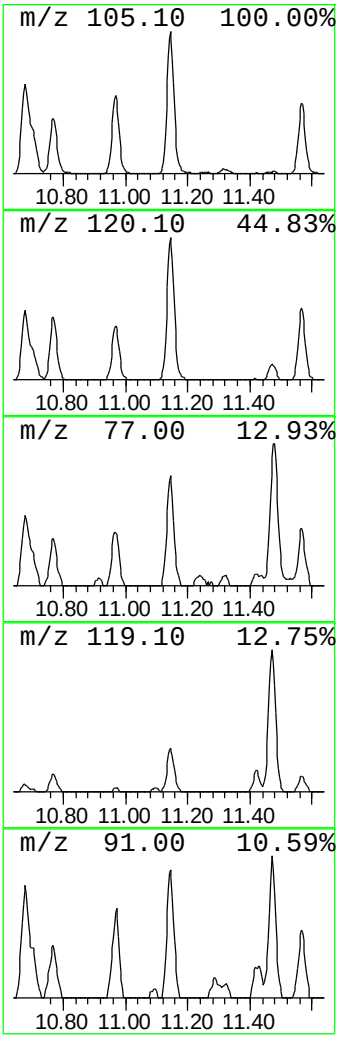
Peak Number 12 Benzene, 1,2,3-trimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.14	7.30 ug/L	88306	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	97
2	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	95
3	Mesitylene	120	C9H12	000108-67-8	94
4	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	94
5	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	91





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060719\
Data File : VU032537.D
Acq On : 07 Jun 2019 12:41
Operator : JC/SP
Sample : K3215-05DL 50X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8H9DL

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

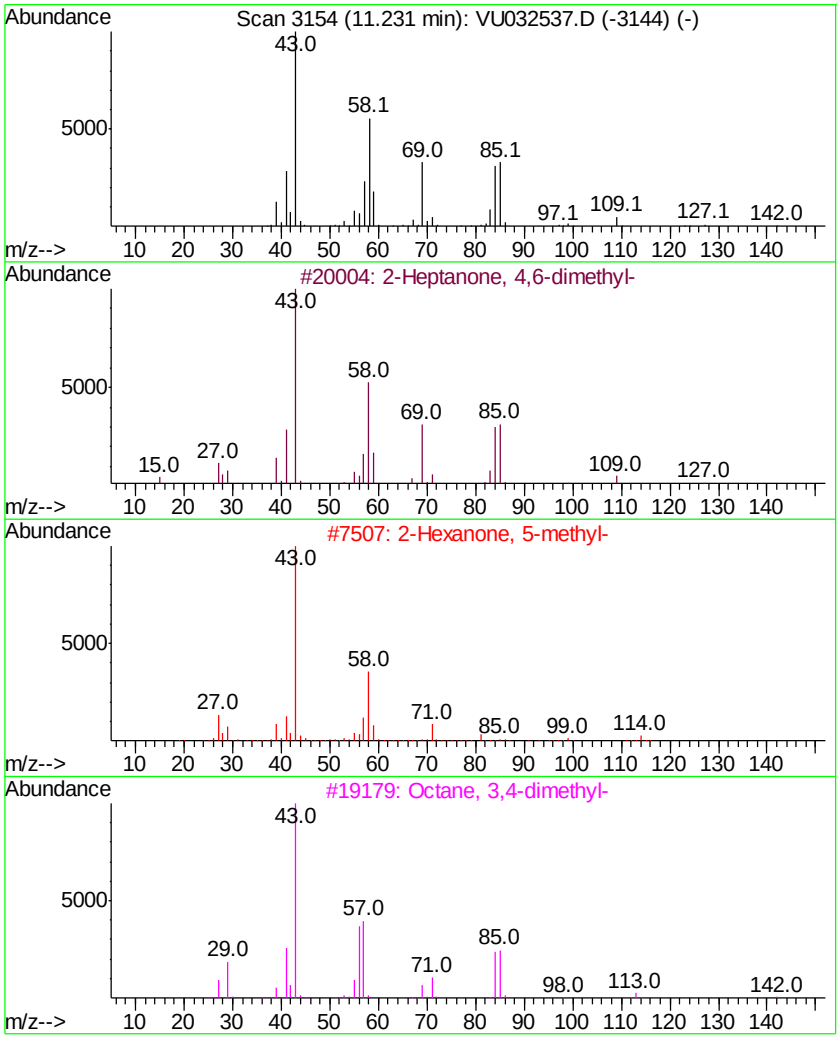
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

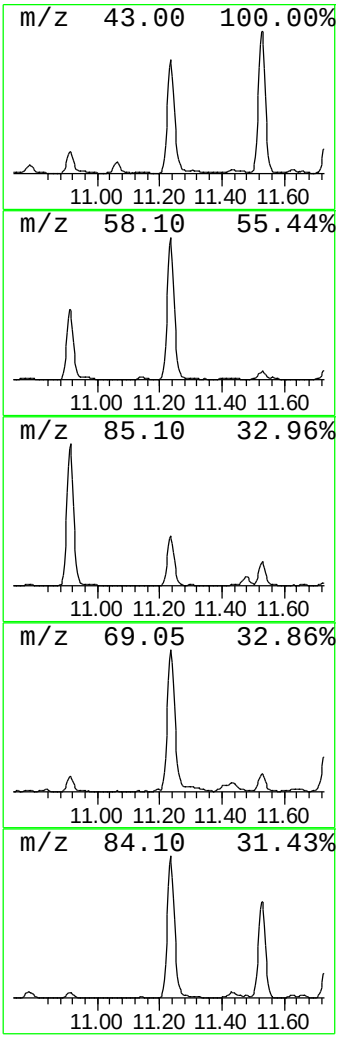
****

Peak Number 13 2-Heptanone, 4,6-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.23	26.81 ug/L	324240	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Heptanone, 4,6-dimethyl-	142	C9H18O	019549-80-5	83
2	2-Hexanone, 5-methyl-	114	C7H14O	000110-12-3	43
3	Octane, 3,4-dimethyl-	142	C10H22	015869-92-8	38
4	2-Heptanone, 4-methyl-	128	C8H16O	006137-06-0	38
5	Pentane, 3-ethyl-2,4-dimethyl-	128	C9H20	001068-87-7	35





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Data File : VU032537.D
Acq On : 07 Jun 2019 12:41
Operator : JC/SP
Sample : K3215-05DL 50X
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8H9DL

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

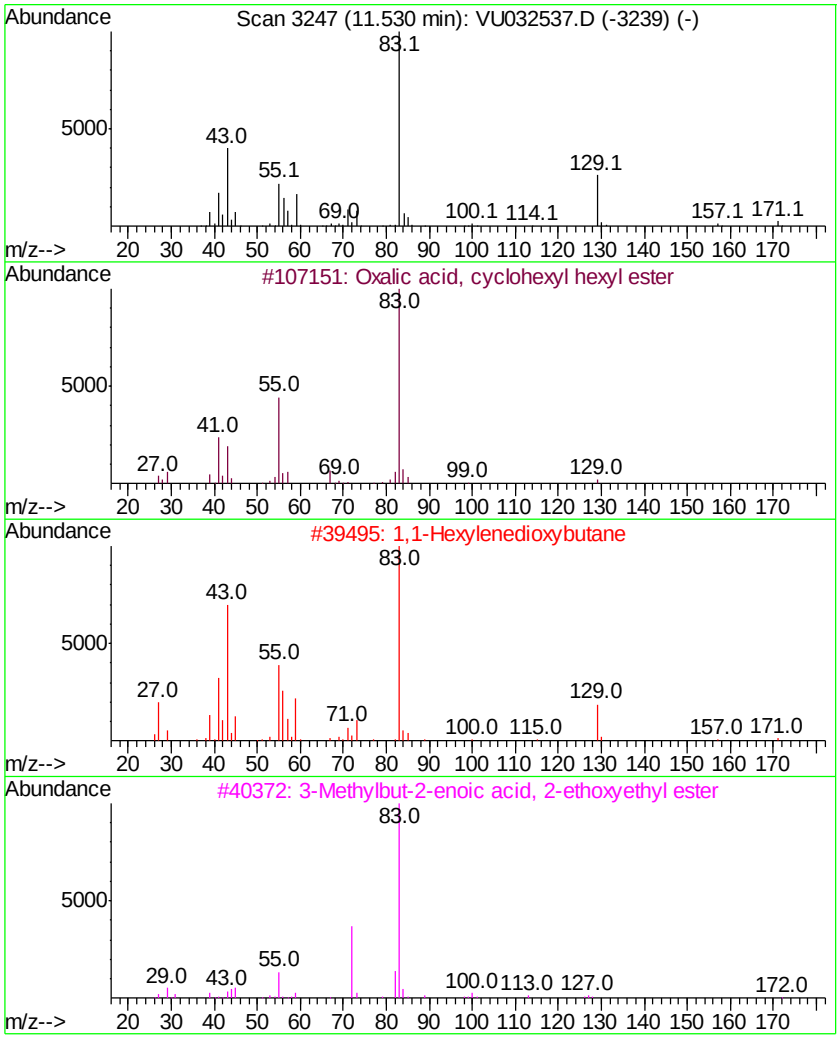
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

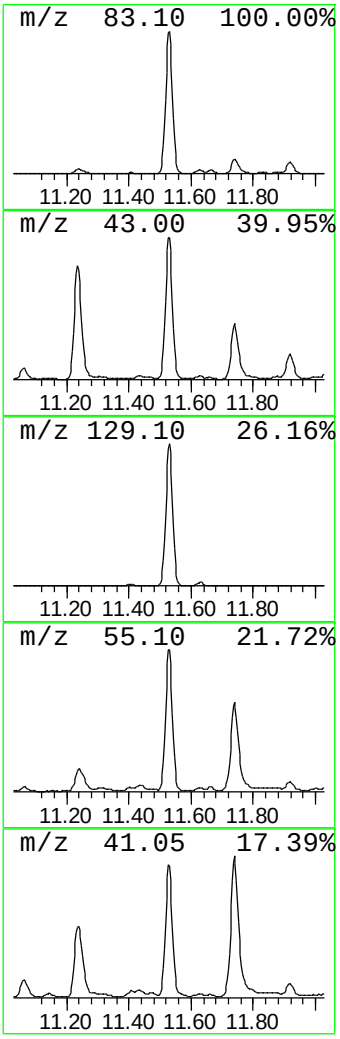
****

Peak Number 14 Oxalic acid, cyclohexyl hex... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.53	50.03 ug/L	604904	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxalic acid, cyclohexyl hexyl ester	256	C14H24O4	1000309-30-8	50
2	1,1-Hexylenedioxybutane	172	C10H20O2	1000249-77-4	43
3	3-Methylbut-2-enoic acid, 2-etho...	172	C9H16O3	1000331-14-8	40
4	Bis(2-ethylhexyl) hydrogen phosp...	306	C16H35O3P	003658-48-8	40
5	Pentanoic acid, 2,4-dimethyl-4-n...	189	C8H15NO4	005762-40-3	38





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Data File : VU032537.D
Acq On : 07 Jun 2019 12:41
Operator : JC/SP
Sample : K3215-05DL 50X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8H9DL

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

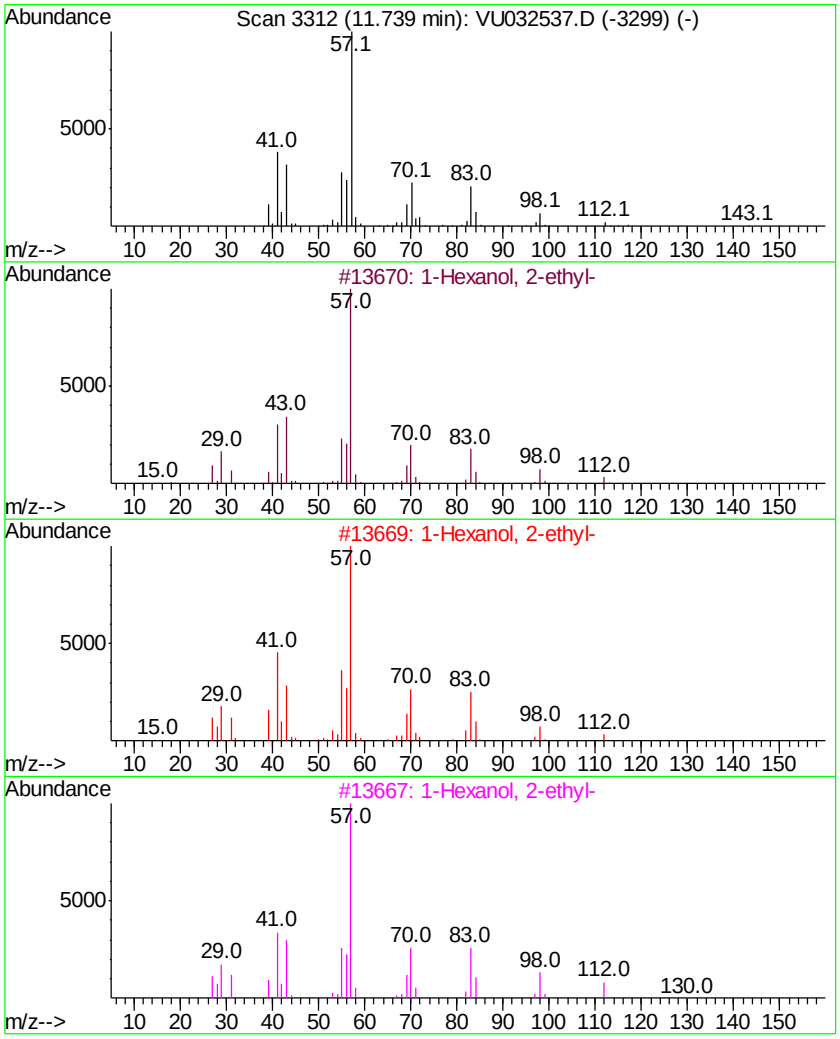
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

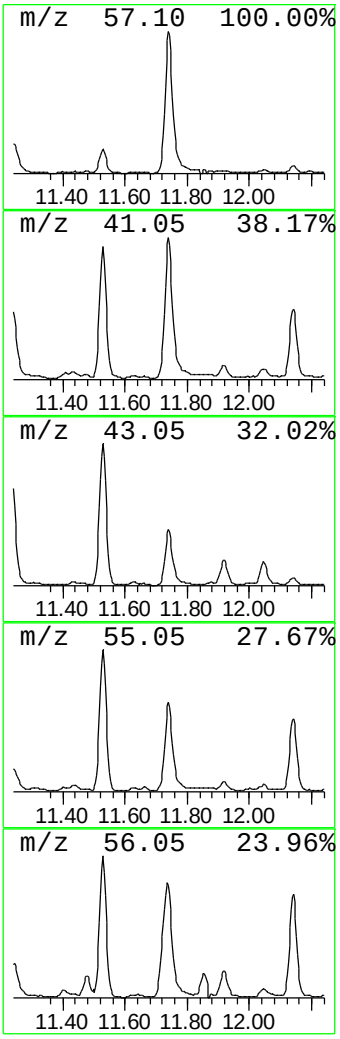
****

Peak Number 15 1-Hexanol, 2-ethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.74	38.19 ug/L	461819	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hexanol, 2-ethyl-	130	C8H18O	000104-76-7	78
2	1-Hexanol, 2-ethyl-	130	C8H18O	000104-76-7	64
3	1-Hexanol, 2-ethyl-	130	C8H18O	000104-76-7	56
4	1-Isobutoxy-2-ethylhexane	186	C12H26O	1000139-90-3	56
5	Octane, 3,5-dimethyl-	142	C10H22	015869-93-9	53





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Data File : VU032537.D
Acq On : 07 Jun 2019 12:41
Operator : JC/SP
Sample : K3215-05DL 50X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8H9DL

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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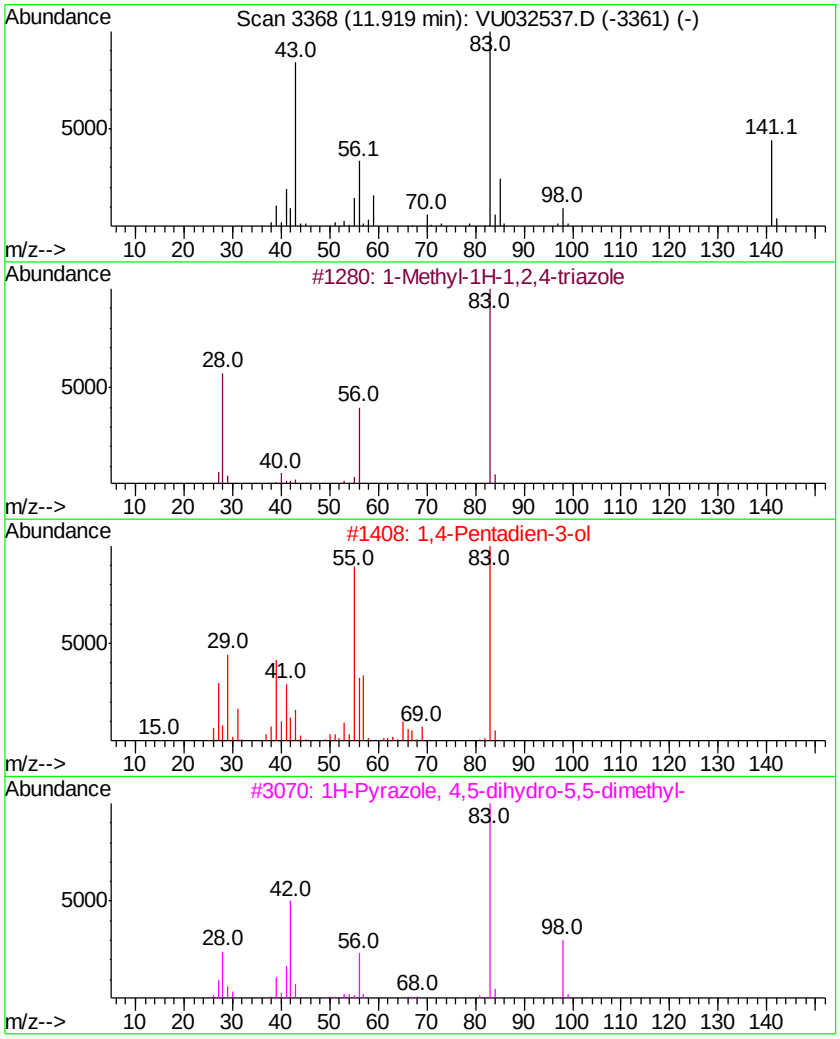
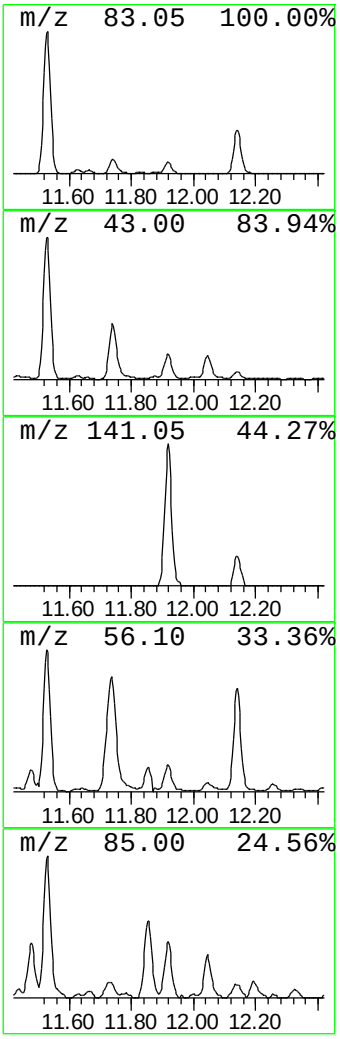
Peak Number 16 unknown-01 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.92	6.03 ug/L	72937	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	38
2	1,4-Pentadien-3-ol	84	C5H8O	000922-65-6	23
3	1H-Pyrazole, 4,5-dihydro-5,5-dim...	98	C5H10N2	004320-85-8	17
4	3-Methyl-2-butenoic acid, pent-2...	164	C10H12O2	1000299-31-0	12
5	Oxalic acid, dicyclohexyl ester	254	C14H22O4	1000309-30-9	12





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Data File : VU032537.D
Acq On : 07 Jun 2019 12:41
Operator : JC/SP
Sample : K3215-05DL 50X
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8H9DL

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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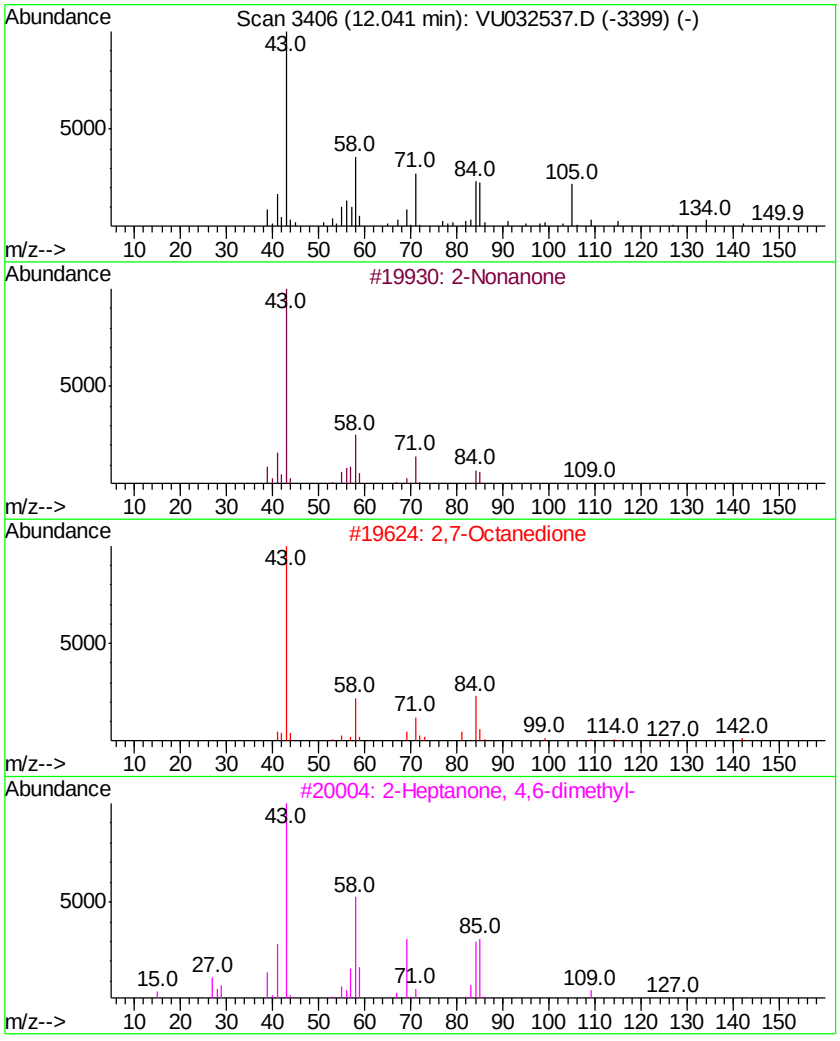
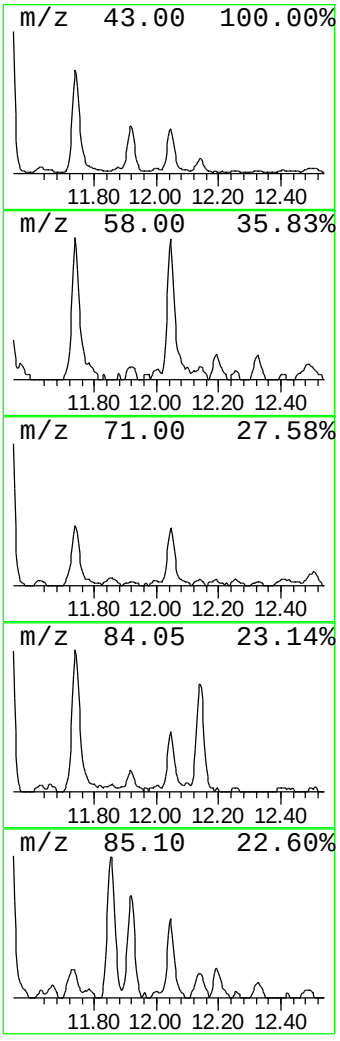
Peak Number 17 2-Nonanone Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.04	4.72 ug/L	57126	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Nonanone	142	C9H18O	000821-55-6	53
2	2,7-Octanedione	142	C8H14O2	001626-09-1	38
3	2-Heptanone, 4,6-dimethyl-	142	C9H18O	019549-80-5	38
4	Dichloroacetic acid, 4-methylpen...	212	C8H14Cl2O2	1000282-43-7	38
5	Heptane, 2,3-dimethyl-	128	C9H20	003074-71-3	35





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060719\
Data File : VU032537.D
Acq On : 07 Jun 2019 12:41
Operator : JC/SP
Sample : K3215-05DL 50X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8H9DL

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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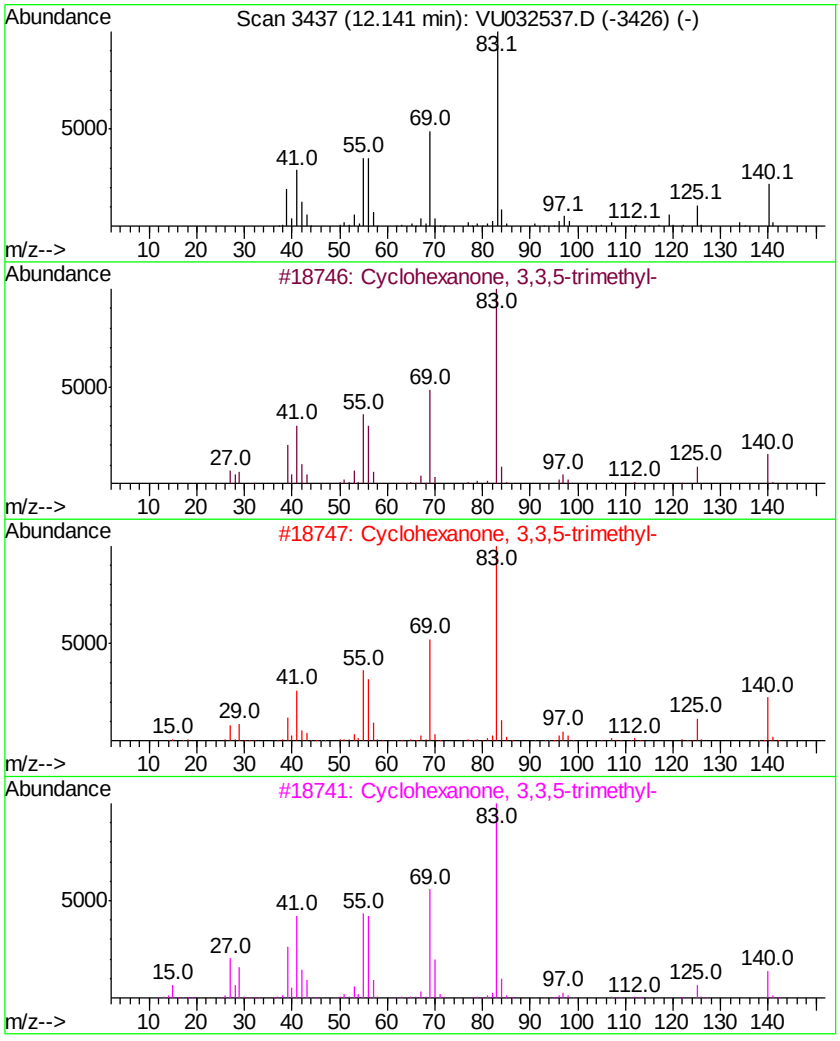
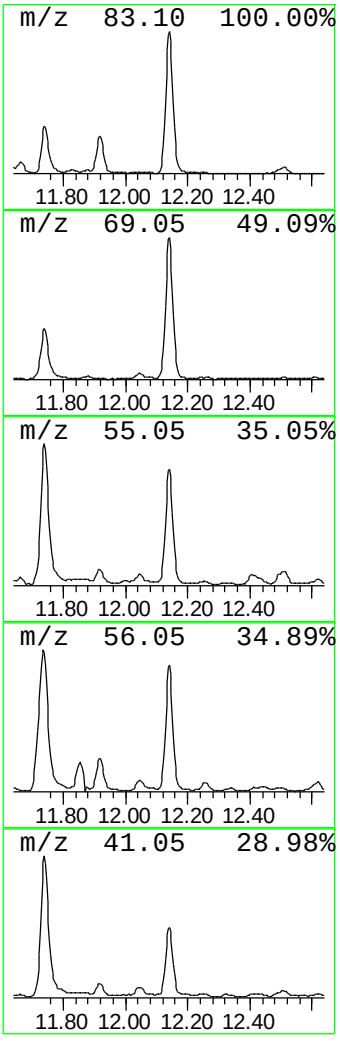
Peak Number 18 Cyclohexanone, 3,3,5-trimet... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.14	24.29 ug/L	293746	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexanone, 3,3,5-trimethyl-	140	C9H16O	000873-94-9	97
2	Cyclohexanone, 3,3,5-trimethyl-	140	C9H16O	000873-94-9	96
3	Cyclohexanone, 3,3,5-trimethyl-	140	C9H16O	000873-94-9	91
4	Cyclohexanone, 3,3,5-trimethyl-	140	C9H16O	000873-94-9	86
5	Cyclohexane, butyl-	140	C10H20	001678-93-9	64





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060719\
Data File : VU032537.D
Acq On : 07 Jun 2019 12:41
Operator : JC/SP
Sample : K3215-05DL 50X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8H9DL

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

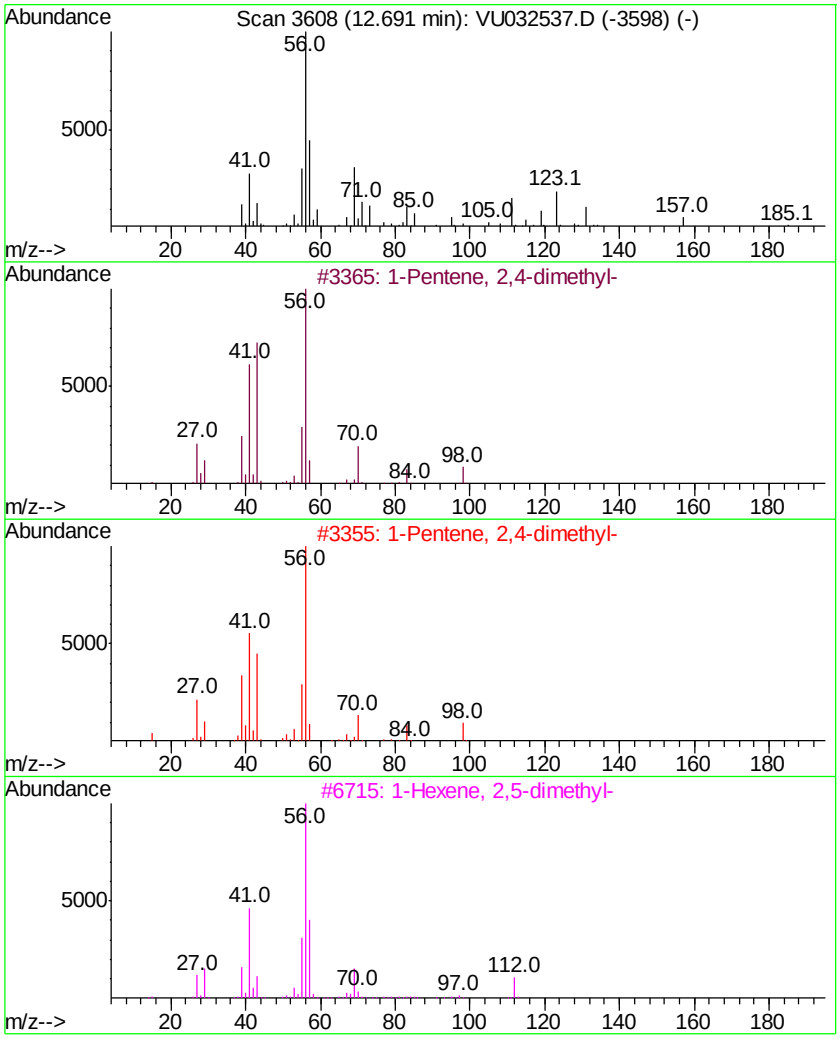
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

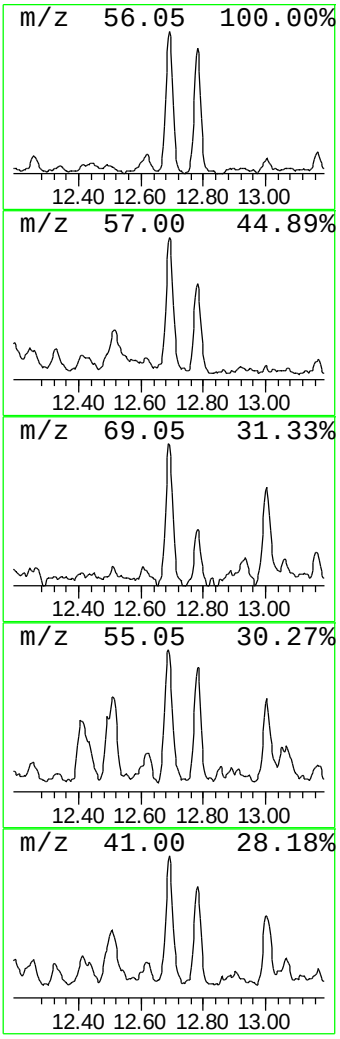
****

Peak Number 19 (DEL) Alkane: Cyclic12.69 Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.69	6.09 ug/L	73613	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Pentene, 2,4-dimethyl-	98	C7H14	002213-32-3	38
2	1-Pentene, 2,4-dimethyl-	98	C7H14	002213-32-3	38
3	1-Hexene, 2,5-dimethyl-	112	C8H16	006975-92-4	38
4	1-Oxa-4-azaspiro[4.5]decan-4-oxy...	198	C10H16NO3	1000115-84-0	38
5	2,4-Dipropyl-5-ethyl-1,3-dioxane	200	C12H24O2	006413-83-8	38





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060719\
Data File : VU032537.D
Acq On : 07 Jun 2019 12:41
Operator : JC/SP
Sample : K3215-05DL 50X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8H9DL

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

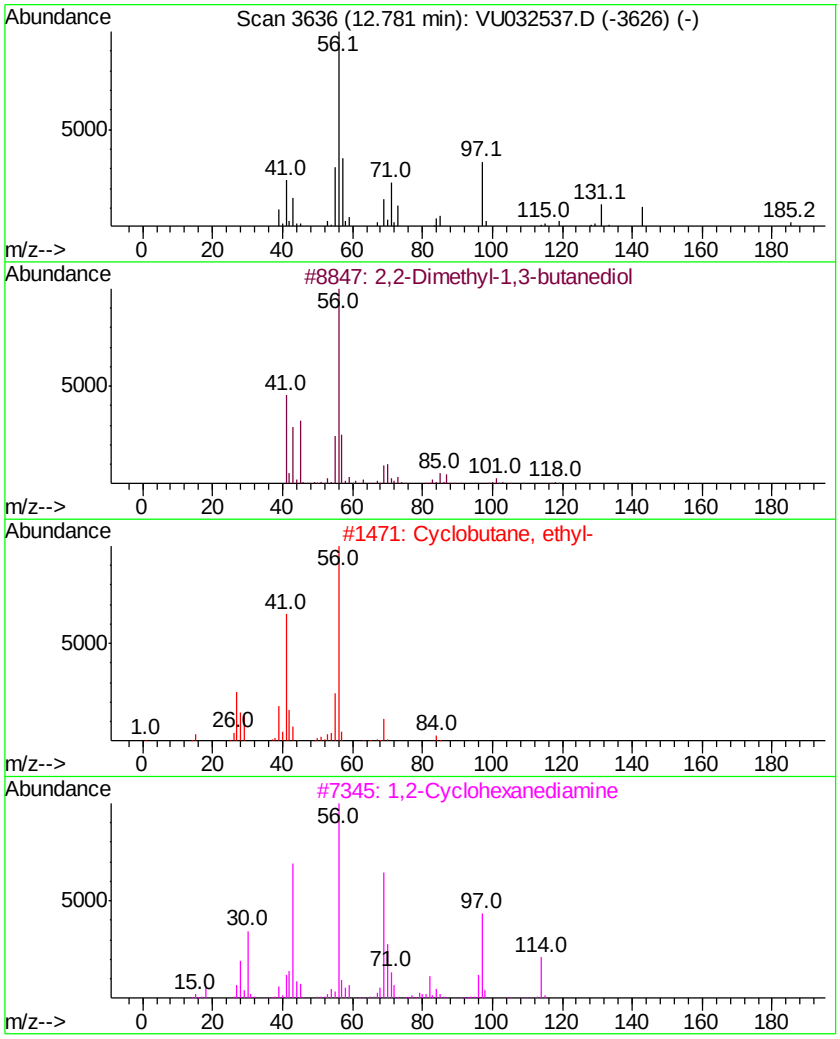
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

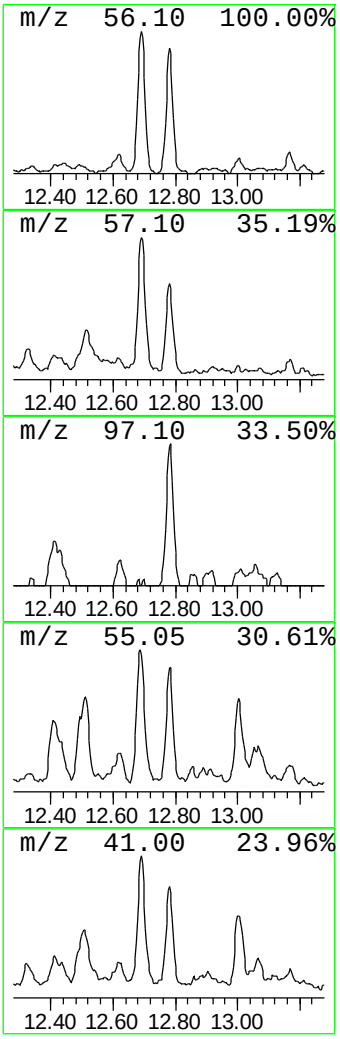
****

Peak Number 20 unknown-02 Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.78	3.50 ug/L	42273	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,2-Dimethyl-1,3-butanediol	118	C6H14O2	000076-35-7	43
2	Cyclobutane, ethyl-	84	C6H12	004806-61-5	43
3	1,2-Cyclohexanediamine	114	C6H14N2	000694-83-7	40
4	1-Hexene, 2,5-dimethyl-	112	C8H16	006975-92-4	38
5	Cyclohexane, 1-(1,1-dimethylethy...	154	C11H22	075736-66-2	33





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU060719\
Data File : VU032537.D
Acq On : 07 Jun 2019 12:41
Operator : JC/SP
Sample : K3215-05DL 50X
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8H9DL

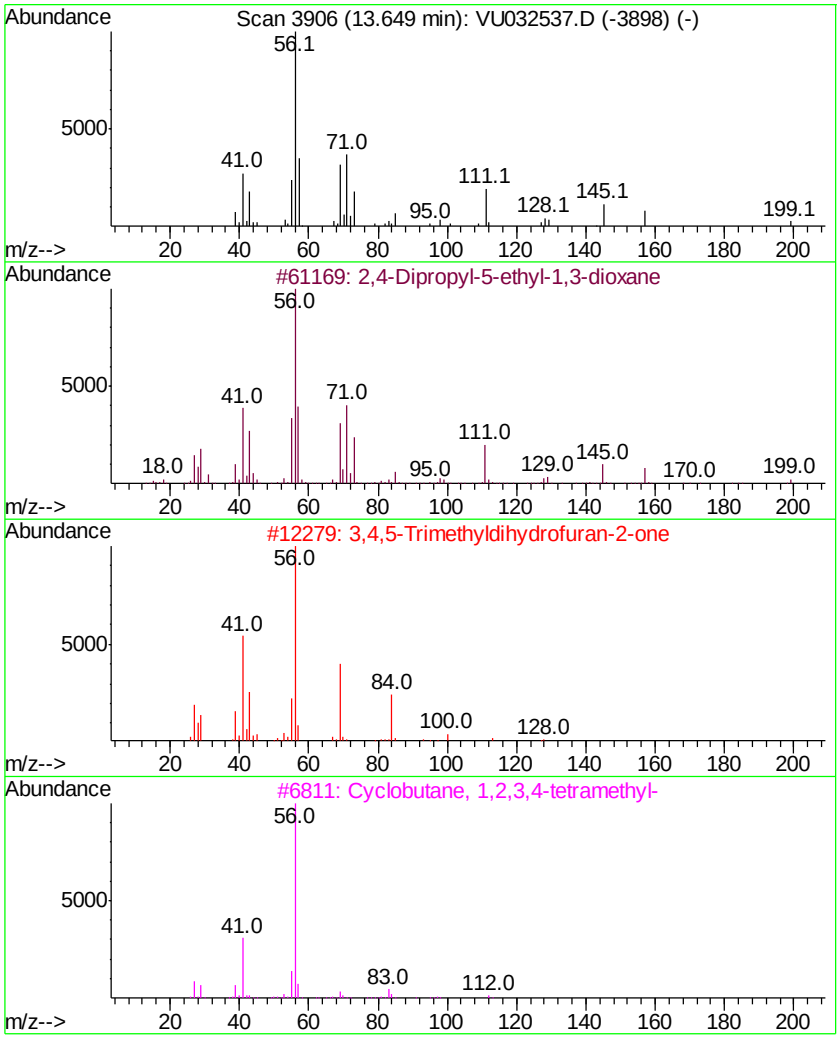
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

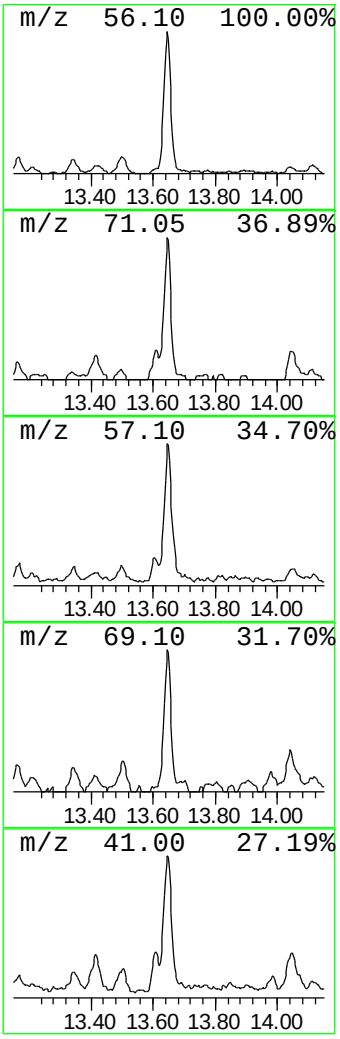
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 21 2,4-Dipropyl-5-ethyl-1,3-di... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.65	6.10 ug/L	73792	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	91
2	3,4,5-Trimethyldihydrofuran-2-one	128	C7H12O2	1000194-05-2	43
3	Cyclobutane, 1,2,3,4-tetramethyl-	112	C8H16	069531-57-3	38
4	1-Hexene, 2,5-dimethyl-	112	C8H16	006975-92-4	38
5	1-Heptene, 2-methyl-	112	C8H16	015870-10-7	32





Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060719\
Data File : VU032537.D
Acq On : 07 Jun 2019 12:41
Operator : JC/SP
Sample : K3215-05DL 50X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8H9DL

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
Butanal	3.98	12.6	ug/L	119298	1	5.88	473917	50.0
3-Hexen-2-one	8.48	9.1	ug/L	113331	2	9.08	623991	50.0
2-Heptanone	9.92	3.5	ug/L	44066	2	9.08	623991	50.0
Propanoic acid, 2...	10.49	3.6	ug/L	43184	3	11.48	604595	50.0
(DEL) Alkane: Str...	10.54	5.7	ug/L	69350	3	11.48	604595	50.0
Benzene, 1-ethyl-...	10.68	5.9	ug/L	70953	3	11.48	604595	50.0
4-Heptanone, 2,6-...	10.91	20.1	ug/L	242627	3	11.48	604595	50.0
Benzene, 1-ethyl-...	10.97	4.1	ug/L	49214	3	11.48	604595	50.0
Butanoic acid, bu...	11.06	4.3	ug/L	51765	3	11.48	604595	50.0
Benzene, 1,2,3-tr...	11.14	7.3	ug/L	88306	3	11.48	604595	50.0
2-Heptanone, 4,6-...	11.23	26.8	ug/L	324240	3	11.48	604595	50.0
Oxalic acid, cycl...	11.53	50.0	ug/L	604904	3	11.48	604595	50.0
1-Hexanol, 2-ethyl-	11.74	38.2	ug/L	461819	3	11.48	604595	50.0
unknown-01	11.92	6.0	ug/L	72937	3	11.48	604595	50.0
2-Nonanone	12.04	4.7	ug/L	57126	3	11.48	604595	50.0
Cyclohexanone, 3,...	12.14	24.3	ug/L	293746	3	11.48	604595	50.0
(DEL) Alkane: Cyc...	12.69	6.1	ug/L	73613	3	11.48	604595	50.0
unknown-02	12.78	3.5	ug/L	42273	3	11.48	604595	50.0
2,4-Dipropyl-5-et...	13.65	6.1	ug/L	73792	3	11.48	604595	50.0