LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU040719\
Data File : VU030841.D
Acq On : 07 Apr 2019 07:13
Operator : JC/SP
Sample : K2249-15
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 51 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : E3YE7

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\SOMULM040519WMA.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	22	28	38	rBV2	19635	22070	0.02%	0.007%
2	1.399	87	96	115	rBV2	2495167	2797086	2.44%	0.853%
3	1.473	115	119	127	rVB	25370	38167	0.03%	0.012%
4	1.695	174	188	203	rBV2	1037009	1607446	1.40%	0.490%
5	1.910	242	255	262	rBV2	34856	56678	0.05%	0.017%
6	2.190	335	342	351	rVB8	7402	11551	0.01%	0.004%
7	2.280	356	370	392	rBV4	1439916	2748492	2.40%	0.839%
8	2.373	395	399	411	rVB2	29820	42519	0.04%	0.013%
9	2.441	411	420	427	rBV2	17546	28758	0.03%	0.009%
10	2.698	488	500	514	rBV2	46226	87079	0.08%	0.027%
11	2.977	570	587	631	rBV	1089901	2289560	2.00%	0.699%
12	3.440	701	731	774	rBV	14775935	33574538	29.34%	10.245%
13	4.222	949	974	1021	rBV3	45191910	114431989	100.00%	34.917%
14	4.643	1093	1105	1130	rVB2	351210	939527	0.82%	0.287%
15	4.913	1167	1189	1213	rBV	25155433	59889063	52.34%	18.274%
16	5.334	1300	1320	1332	rBV2	691489	2014789	1.76%	0.615%
17	5.617	1404	1408	1419	rVB2	6644	10408	0.01%	0.003%
18	5.791	1447	1462	1468	rBV10	5238	12537	0.01%	0.004%
19	5.881	1477	1490	1515	rBV	603062	1222834	1.07%	0.373%
20	6.183	1568	1584	1608	rBV	699357	1388226	1.21%	0.424%
21	6.325	1615	1628	1645	rBV	471332	945728	0.83%	0.289%
22	6.411	1646	1655	1674	rVB4	36401	84032	0.07%	0.026%
23	6.630	1712	1723	1739	rVB10	6059	16090	0.01%	0.005%
24	7.225	1896	1908	1929	rBV2	231329	424005	0.37%	0.129%
25	7.563	1993	2013	2024	rBV	901165	1587565	1.39%	0.484%
26	7.633	2024	2035	2051	rVB	1119166	1936738	1.69%	0.591%
27	7.845	2089	2101	2116	rBV2	159366	282253	0.25%	0.086%
28	7.913	2117	2122	2135	rVB8	12598	21673	0.02%	0.007%
29	8.064	2154	2169	2191	rVV	134551	244672	0.21%	0.075%
30	8.225	2207	2219	2233	rVV	208614	358727	0.31%	0.109%
31	8.308	2233	2245	2286	rBV	650314	1226277	1.07%	0.374%
32	8.482	2292	2299	2308	rVB8	8561	12592	0.01%	0.004%
33	8.540	2309	2317	2326	rVV3	24683	38135	0.03%	0.012%
34	8.601	2329	2336	2344	rVB3	10641	15003	0.01%	0.005%

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Sample : K2249-15
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 51 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : E3YE7

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\SOMULM040519WMA.M
Title : VOC Analysis

35	9.087	2474	2487	2509	rBV	900705	1529659	1.34%	0.467%
36	9.183	2512	2517	2524	rVV2	22441	33439	0.03%	0.010%
37	9.244	2524	2536	2561	rVV	2886815	4607967	4.03%	1.406%
38	9.370	2562	2575	2611	rVB	6873223	11202297	9.79%	3.418%
39	9.566	2626	2636	2645	rVB5	12299	18646	0.02%	0.006%
40	9.714	2671	2682	2683	rBV7	11179	13812	0.01%	0.004%
41	9.775	2688	2701	2734	rVB	7404085	11546507	10.09%	3.523%
42	9.951	2747	2756	2767	rVV2	48553	81348	0.07%	0.025%
43	10.045	2773	2785	2801	rVB2	17402	39891	0.03%	0.012%
44	10.164	2810	2822	2840	rBV	487554	780544	0.68%	0.238%
45	10.292	2852	2862	2868	rBV7	9504	17297	0.02%	0.005%
46	10.373	2879	2887	2894	rBV6	24240	36960	0.03%	0.011%
47	10.427	2894	2904	2918	rBV	628931	1029197	0.90%	0.314%
48	10.582	2940	2952	2969	rBV	1339825	2088328	1.82%	0.637%
49	10.675	2969	2981	3000	rVV	4124389	8776787	7.67%	2.678%
50	10.768	3000	3010	3032	rVB	2338520	3527897	3.08%	1.076%
51	10.916	3045	3056	3060	rBV	56728	85462	0.07%	0.026%
52	10.968	3060	3072	3094	rVB	3055503	4780325	4.18%	1.459%
53	11.096	3103	3112	3113	rBV2	16634	18006	0.02%	0.005%
54	11.144	3115	3127	3147	rVB	10555126	15858422	13.86%	4.839%
55	11.286	3162	3171	3175	rBV2	119310	167703	0.15%	0.051%
56	11.318	3176	3181	3196	rVB2	232068	354984	0.31%	0.108%
57	11.424	3199	3214	3221	rBV	396491	614854	0.54%	0.188%
58	11.479	3221	3231	3246	rVV2	1106454	1805504	1.58%	0.551%
59	11.566	3246	3258	3282	rVB	4668198	7057667	6.17%	2.154%
60	11.685	3285	3295	3307	rVB2	51233	87652	0.08%	0.027%
61	11.762	3307	3319	3327	rBV	1707113	2969636	2.60%	0.906%
62	11.804	3327	3332	3340	rVV	799977	1183758	1.03%	0.361%
63	11.861	3340	3350	3371	rVB7	1677319	3864366	3.38%	1.179%
64	11.977	3376	3386	3398	rBV2	114698	182336	0.16%	0.056%
65	12.051	3399	3409	3424	rVB	383026	592575	0.52%	0.181%
66	12.141	3424	3437	3458	rBV2	2603564	4967987	4.34%	1.516%
67	12.247	3460	3470	3478	rBV	773299	1144796	1.00%	0.349%
68	12.350	3492	3502	3533	rVB4	231376	667784	0.58%	0.204%
69	12.488	3535	3545	3552	rBV2	39314	63005	0.06%	0.019%
70	12.546	3552	3563	3576	rVB2	244989	407344	0.36%	0.124%
71	12.646	3576	3594	3602	rBV	340595	549711	0.48%	0.168%

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Sample : K2249-15
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 51 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : E3YE7

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\SOMULM040519WMA.M
Title : VOC Analysis

72	12.697	3602	3610	3625	rVB	593466	899481	0.79%	0.274%
73	12.784	3628	3637	3643	rBV4	38541	63840	0.06%	0.019%
74	12.845	3652	3656	3661	rBV	10566	10395	0.01%	0.003%
75	12.874	3661	3665	3671	rVB	16650	20219	0.02%	0.006%
76	12.922	3672	3680	3684	rBV4	25644	37846	0.03%	0.012%
77	12.961	3684	3692	3705	rVB	135578	212221	0.19%	0.065%
78	13.025	3707	3712	3720	rVB5	16115	20899	0.02%	0.006%
79	13.115	3720	3740	3753	rBV2	659175	1137988	0.99%	0.347%
80	13.183	3757	3761	3771	rVV5	33265	52965	0.05%	0.016%
81	13.234	3771	3777	3783	rVV2	18551	26520	0.02%	0.008%
82	13.283	3783	3792	3810	rVB2	162860	270892	0.24%	0.083%
83	13.395	3816	3827	3836	rBV9	37261	71593	0.06%	0.022%
84	13.453	3838	3845	3852	rVB4	17199	23247	0.02%	0.007%
85	13.504	3852	3861	3868	rBV6	53545	88834	0.08%	0.027%
86	13.569	3878	3881	3887	rBV4	8009	10322	0.01%	0.003%
87	13.604	3887	3892	3898	rVV3	18902	25670	0.02%	0.008%
88	13.633	3898	3901	3911	rVB2	17762	21547	0.02%	0.007%
89	13.739	3921	3934	3960	rBV	613328	1058726	0.93%	0.323%
90	13.848	3965	3968	3981	rVB8	10294	15228	0.01%	0.005%
91	13.961	3992	4003	4012	rVB8	11416	27052	0.02%	0.008%
92	14.151	4054	4062	4076	rVB7	11871	24741	0.02%	0.008%
93	14.324	4109	4116	4117	rVV3	12957	11271	0.01%	0.003%
94	14.344	4118	4122	4134	rVB8	19259	34317	0.03%	0.010%
95	14.472	4153	4162	4171	rBV2	10534	17571	0.02%	0.005%
96	14.537	4176	4182	4191	rVB5	7525	11860	0.01%	0.004%
97	14.672	4216	4224	4239	rBV10	16215	29834	0.03%	0.009%
98	14.881	4277	4289	4319	rBV2	80203	189357	0.17%	0.058%
99	15.061	4336	4345	4364	rBV	72119	134845	0.12%	0.041%
100	16.430	4762	4771	4778	rBV	6997	12434	0.01%	0.004%

Sum of corrected areas: 327722975

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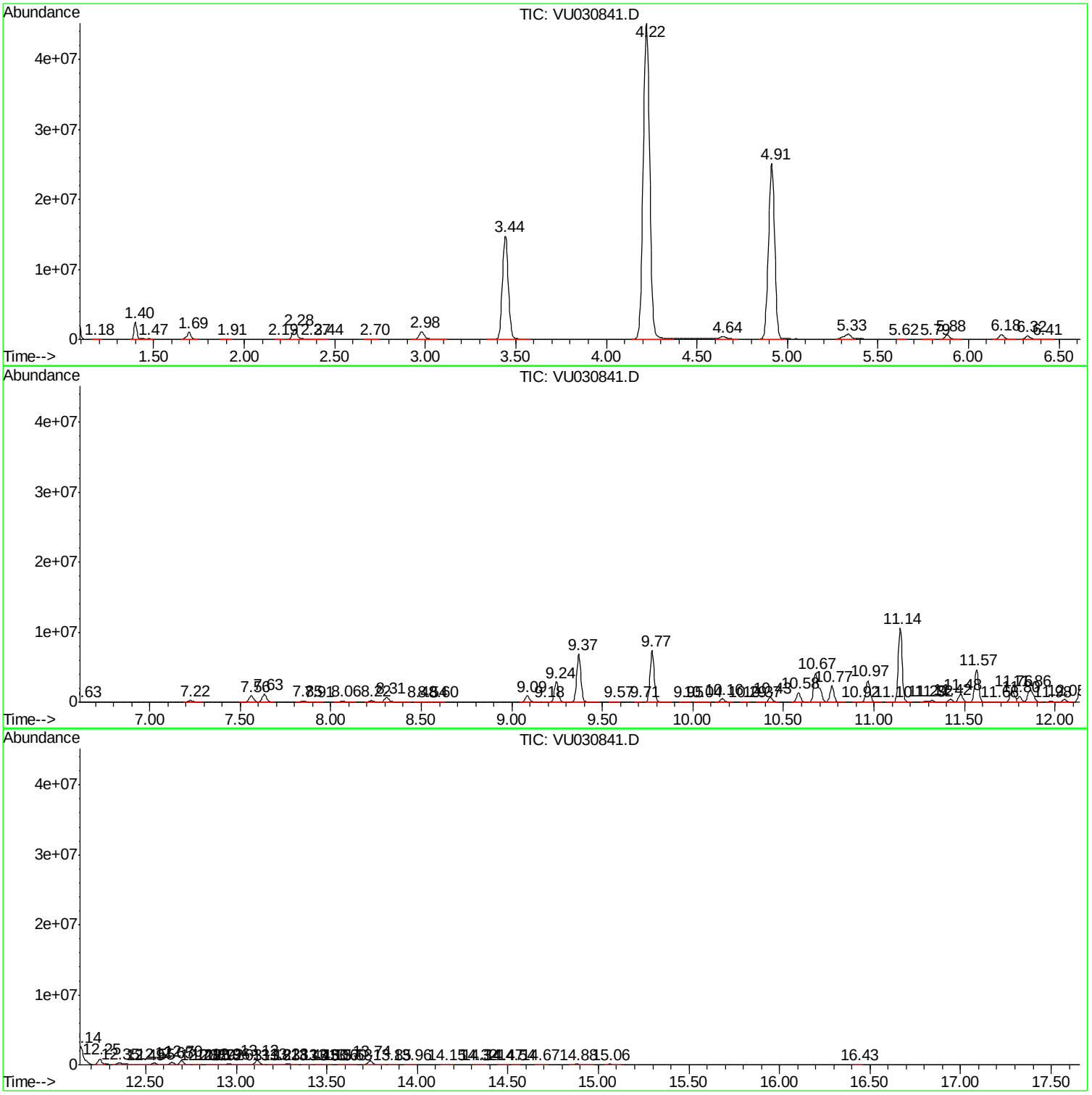
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 51 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
E3YE7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
Quant Title : VOC Analysis

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



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040719\
Data File : VU030841.D
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ALS Vial : 51 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : E3YE7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
Quant Title : VOC Analysis

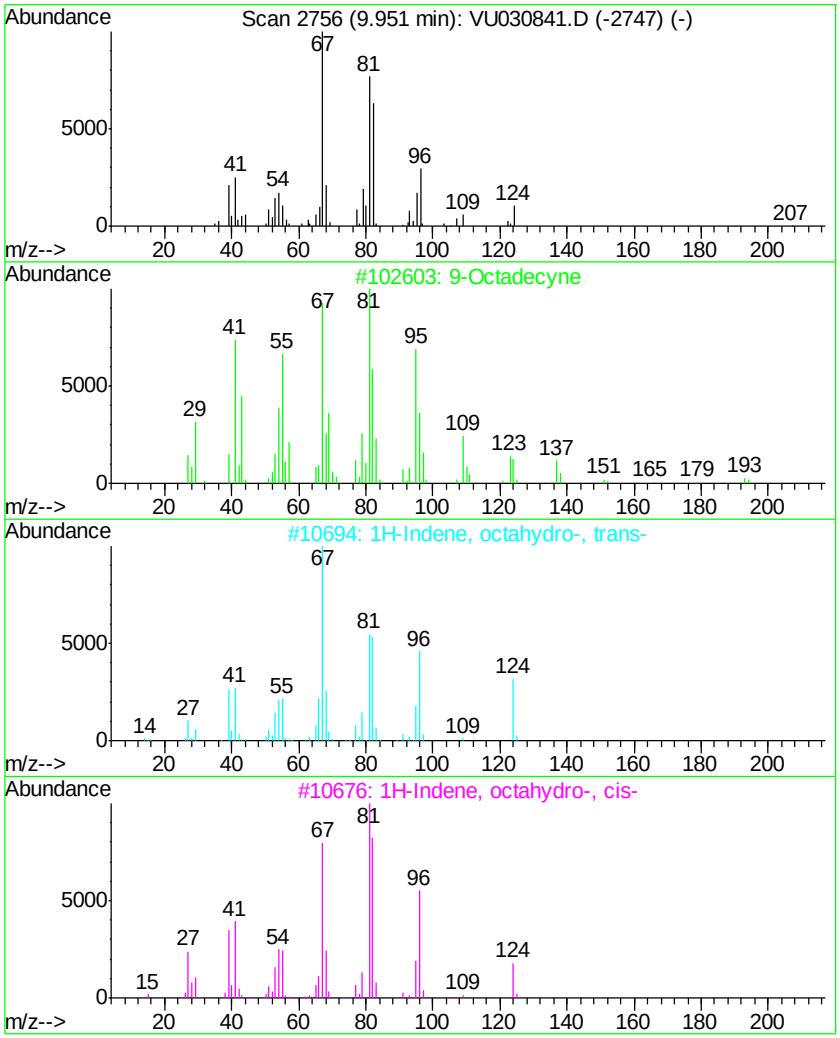
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

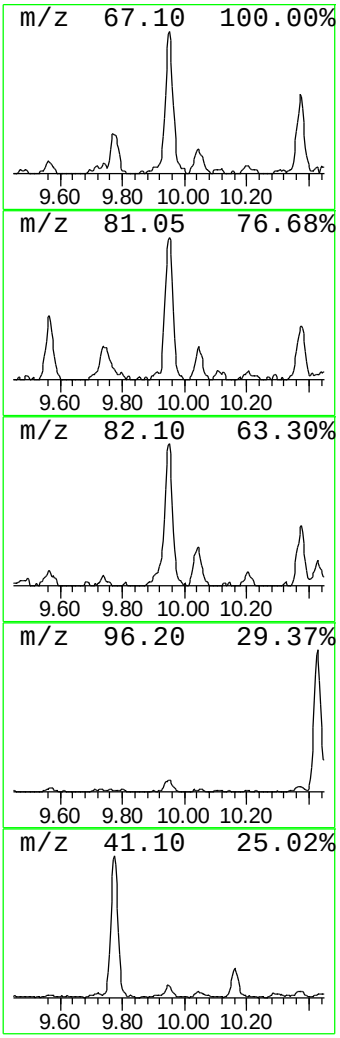
****

Peak Number 2 9-Octadecyne Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.95	2.66 ug/L	81348	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Octadecyne	250	C18H34	035365-59-4	83
2	1H-Indene, octahydro-, trans-	124	C9H16	003296-50-2	64
3	1H-Indene, octahydro-, cis-	124	C9H16	004551-51-3	64
4	Cyclohexane, ethylidene-	110	C8H14	001003-64-1	50
5	Cyclohexene,3-propyl-	124	C9H16	003983-06-0	49





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040719\
Data File : VU030841.D
Acq On : 07 Apr 2019 07:13
Operator : JC/SP
Sample : K2249-15
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 51 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : E3YE7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
Quant Title : VOC Analysis

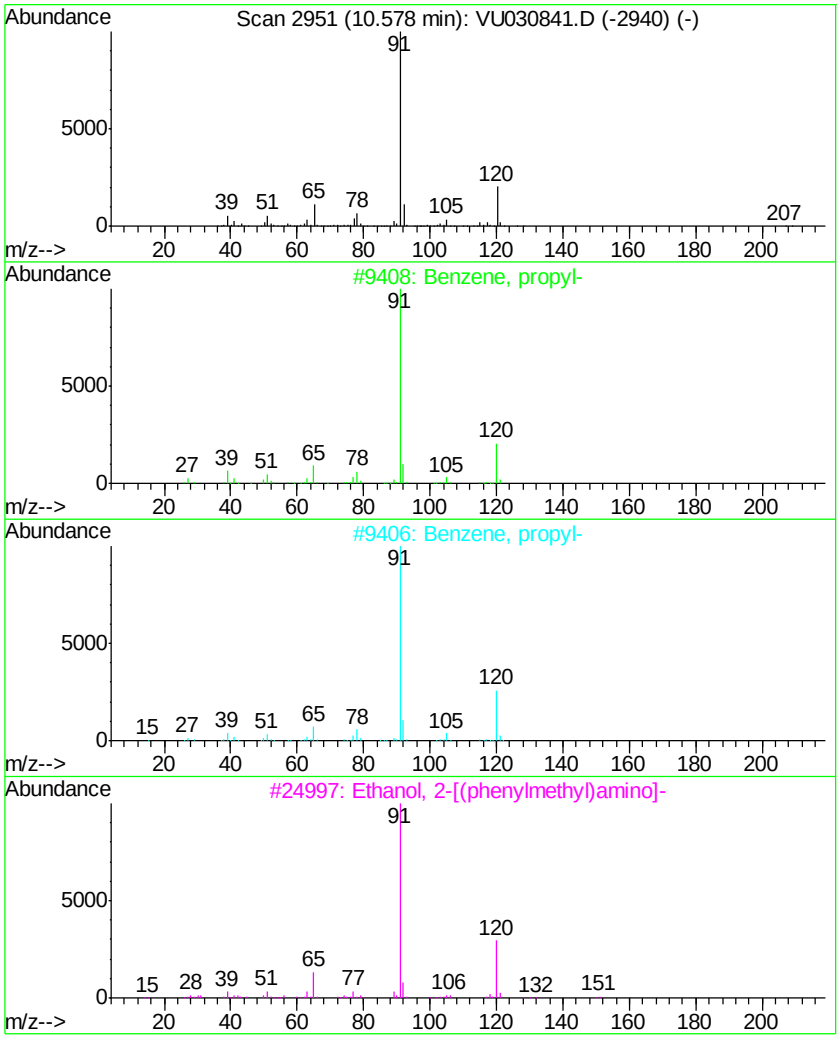
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

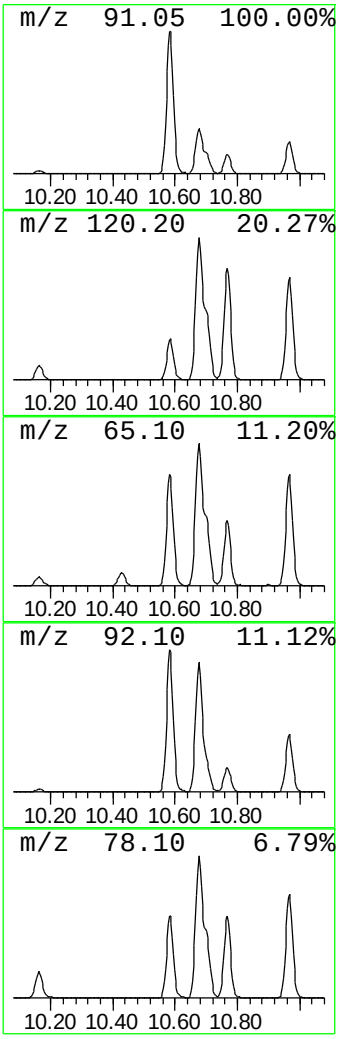
****

Peak Number 3 Benzene, propyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.58	57.83 ug/L	2088330	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, propyl-	120	C9H12	000103-65-1	90
2	Benzene, propyl-	120	C9H12	000103-65-1	86
3	Ethanol, 2-[(phenylmethyl)amino]-	151	C9H13NO	000104-63-2	72
4	Phenethylamine, N-benzyl-p-chloro-	245	C15H16ClN	013622-43-0	72
5	1,2-Ethanediamine, N,N'-bis(phen...	240	C16H20N2	000140-28-3	64





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ClientSampleId : E3YE7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
Quant Title : VOC Analysis

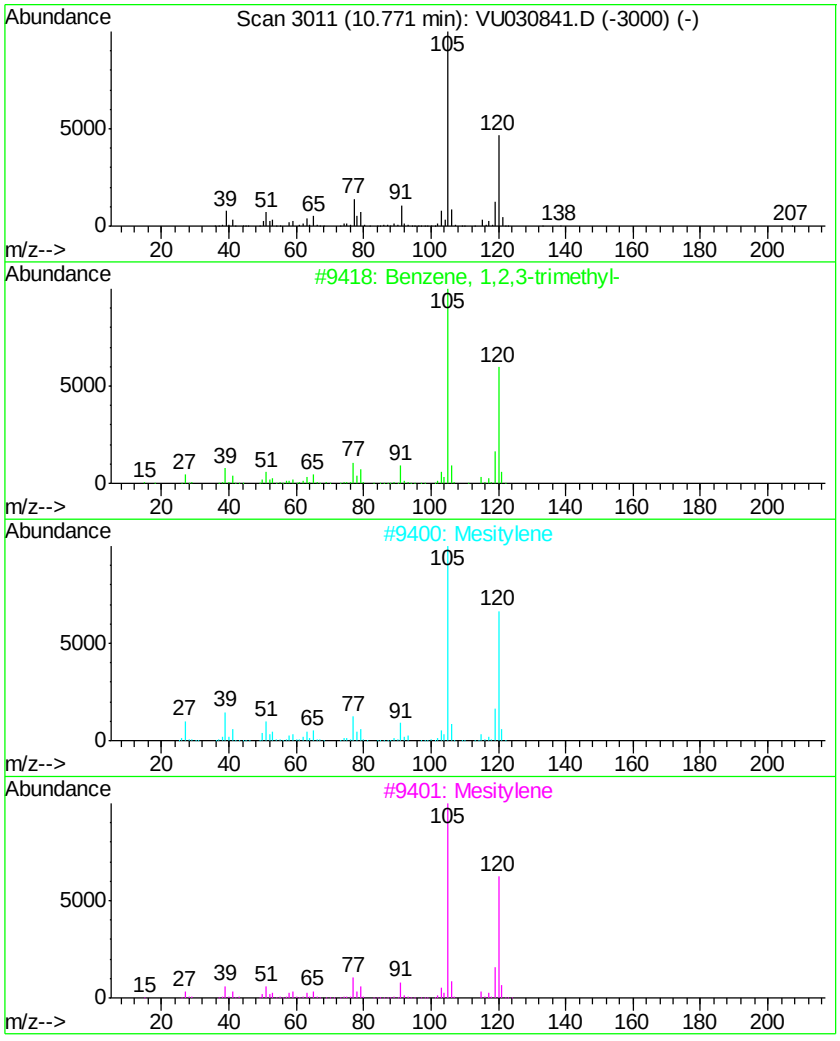
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

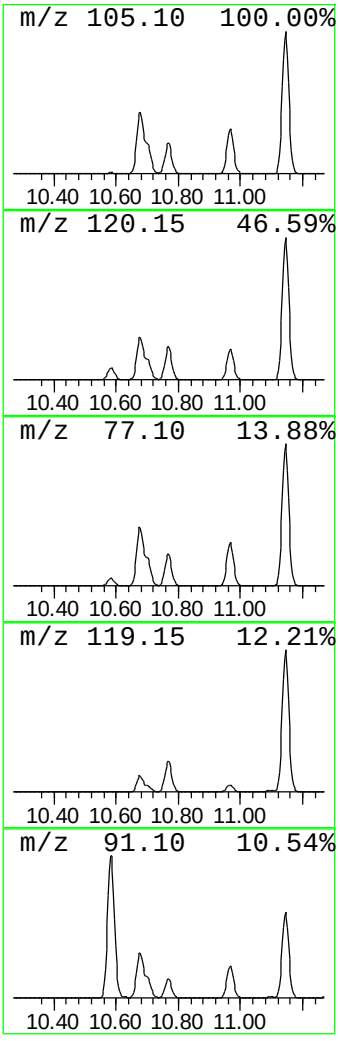
****

Peak Number 5 Benzene, 1,2,3-trimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.77	97.70 ug/L	3527900	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	Mesitylene	120	C9H12	000108-67-8	95
3	Mesitylene	120	C9H12	000108-67-8	95
4	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	95
5	Mesitylene	120	C9H12	000108-67-8	94





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Instrument : MSVOA_U
ClientSampleId : E3YE7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
Quant Title : VOC Analysis

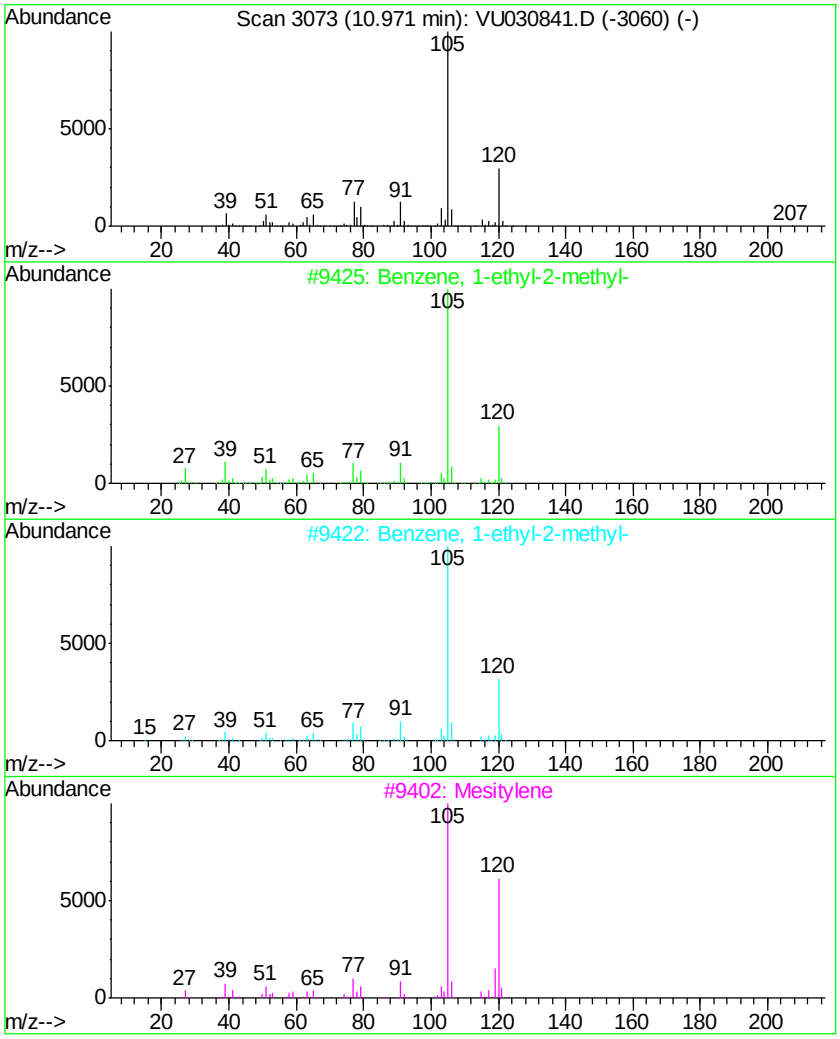
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

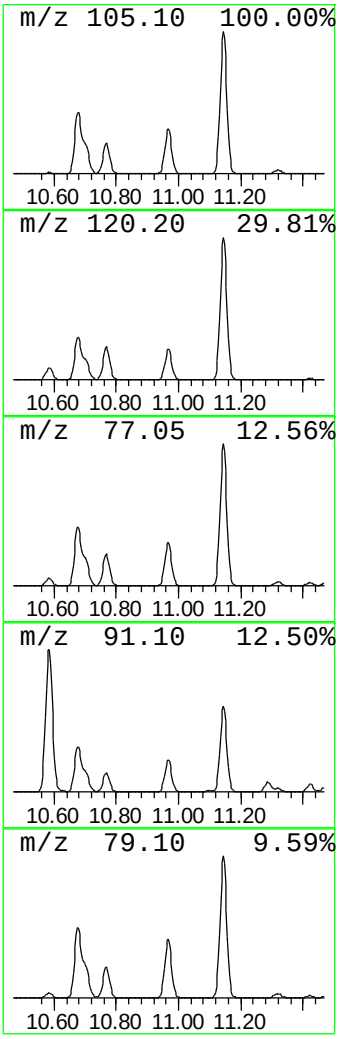
****

Peak Number 6 Benzene, 1-ethyl-2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.97	132.38 ug/L	4780330	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	94
2	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	94
3	Mesitylene	120	C9H12	000108-67-8	91
4	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	91
5	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	91





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040719\
Data File : VU030841.D
Acq On : 07 Apr 2019 07:13
Operator : JC/SP
Sample : K2249-15
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 51 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : E3YE7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
Quant Title : VOC Analysis

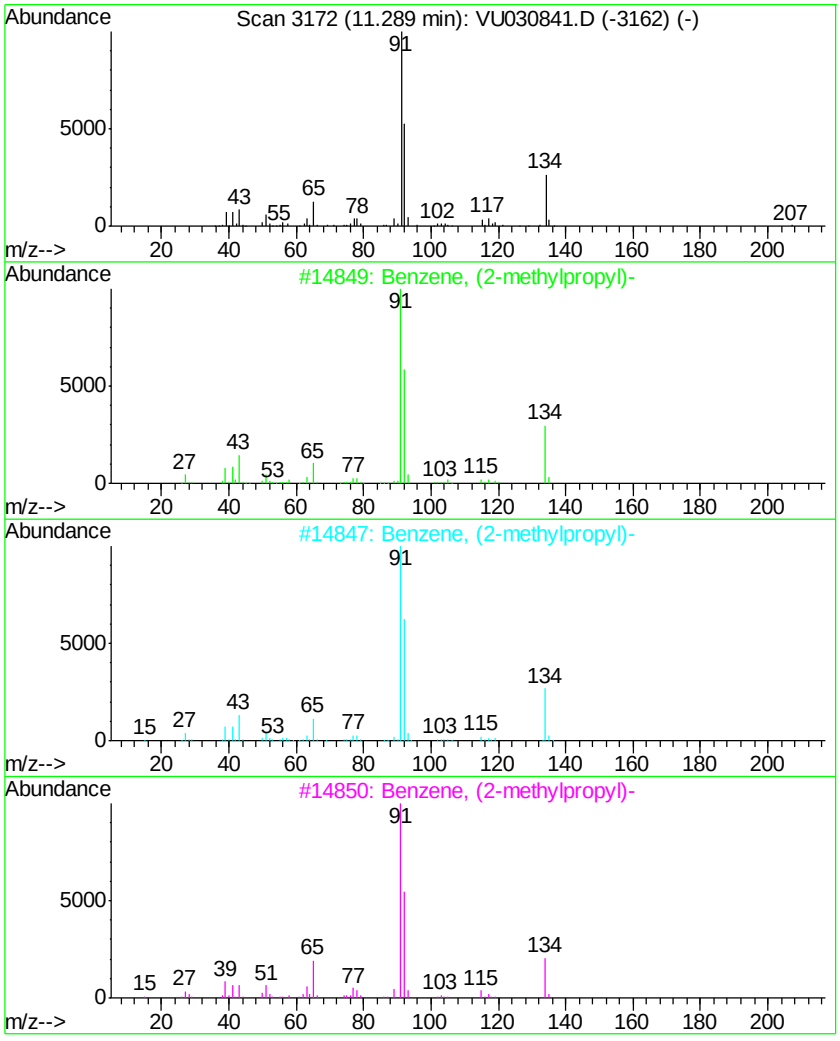
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

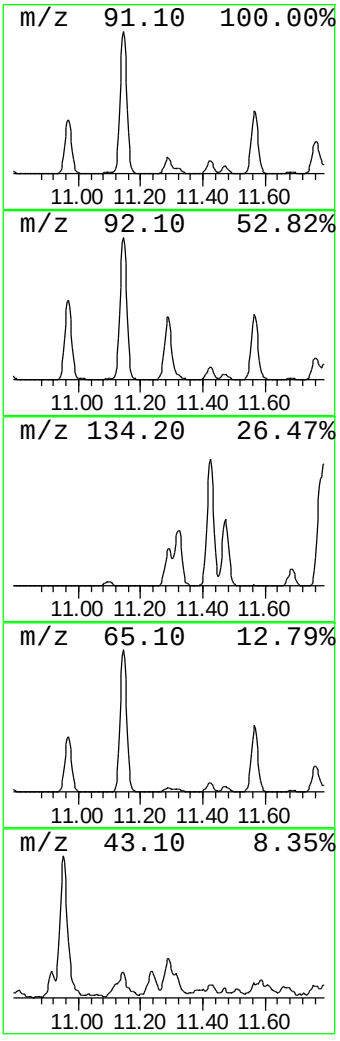
****

Peak Number 8 Benzene, (2-methylpropyl)- Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.29	4.64 ug/L	167703	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (2-methylpropyl)-	134	C10H14	000538-93-2	87
2	Benzene, (2-methylpropyl)-	134	C10H14	000538-93-2	87
3	Benzene, (2-methylpropyl)-	134	C10H14	000538-93-2	83
4	Benzene, butyl-	134	C10H14	000104-51-8	80
5	Benzene, butyl-	134	C10H14	000104-51-8	72





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU040719\
Data File : VU030841.D
Acq On : 07 Apr 2019 07:13
Operator : JC/SP
Sample : K2249-15
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 51 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : E3YE7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
Quant Title : VOC Analysis

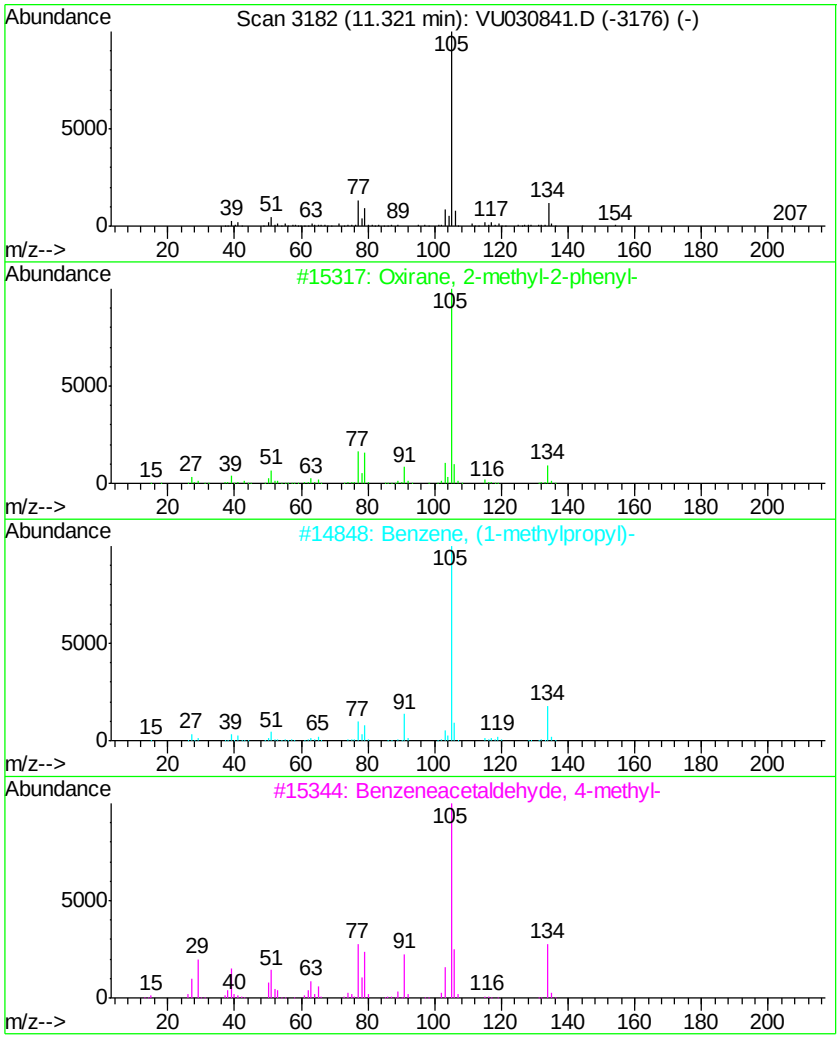
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

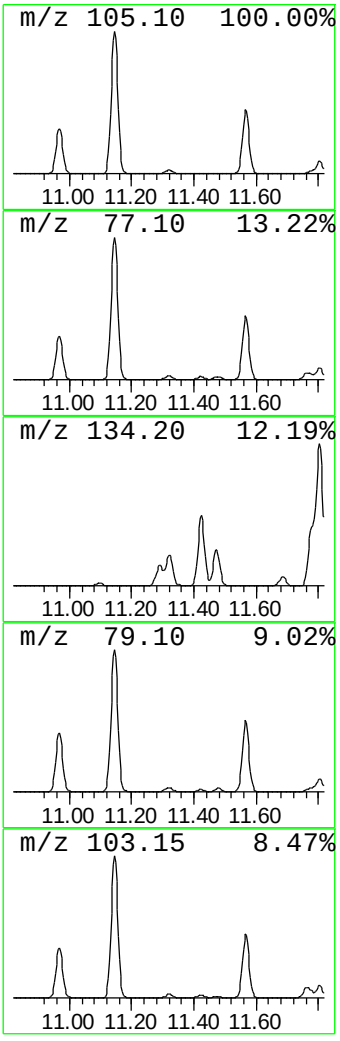
****

Peak Number 9 Oxirane, 2-methyl-2-phenyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.32	9.83 ug/L	354984	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxirane, 2-methyl-2-phenyl-	134	C9H10O	002085-88-3	90
2	Benzene, (1-methylpropyl)-	134	C10H14	000135-98-8	86
3	Benzeneacetaldehyde, 4-methyl-	134	C9H10O	000104-09-6	80
4	2-Tolyloxirane	134	C9H10O	002783-26-8	72
5	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	72





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Data File : VU030841.D
Acq On : 07 Apr 2019 07:13
Operator : JC/SP
Sample : K2249-15
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 51 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : E3YE7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
Quant Title : VOC Analysis

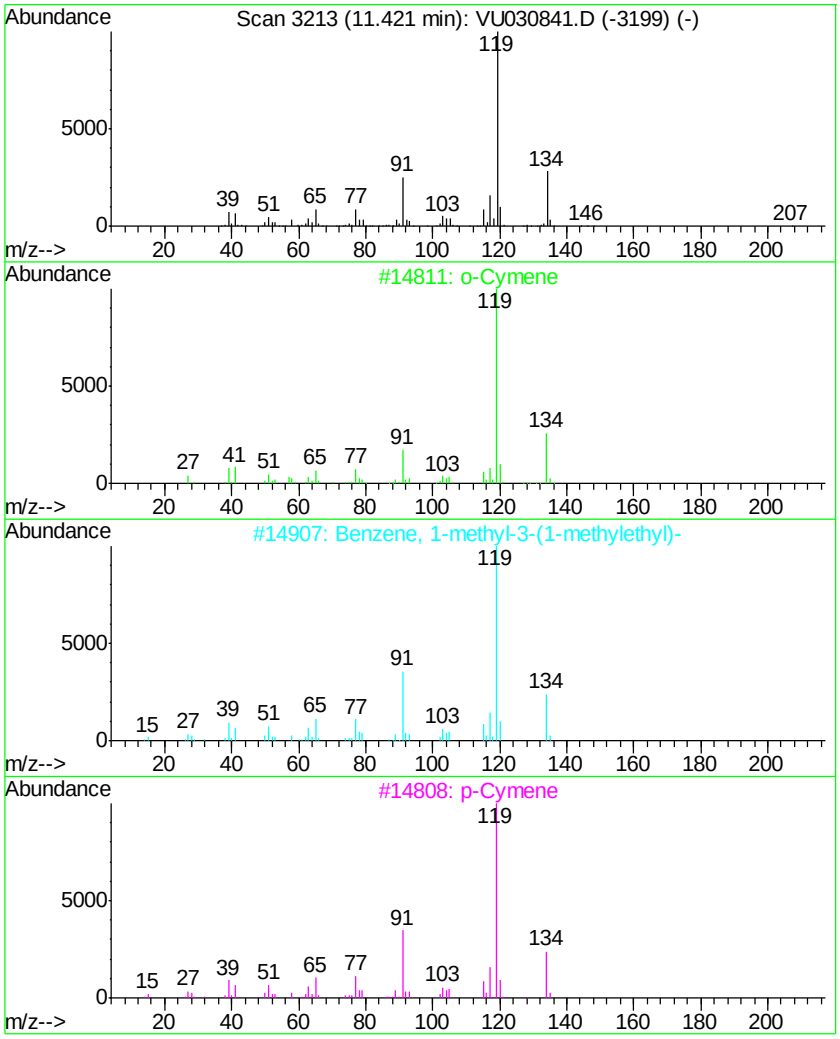
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

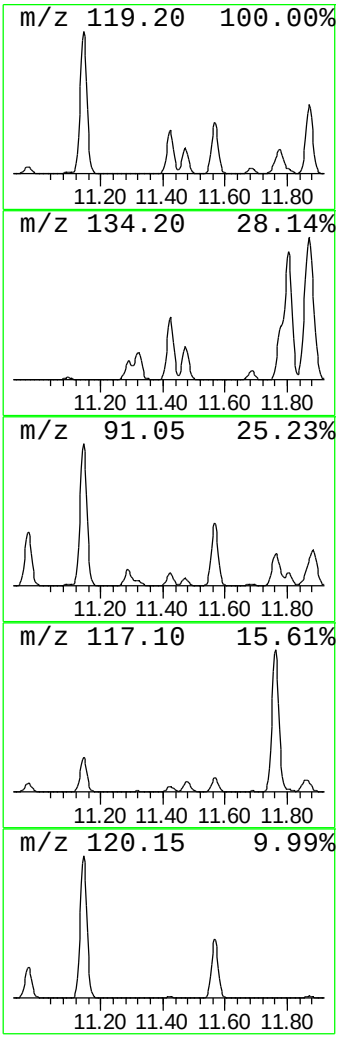
****

Peak Number 10 o-Cymene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.42	17.03 ug/L	614854	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	o-Cymene	134	C10H14	000527-84-4	97
2	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	95
3	p-Cymene	134	C10H14	000099-87-6	95
4	p-Cymene	134	C10H14	000099-87-6	94
5	o-Cymene	134	C10H14	000527-84-4	94





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Data File : VU030841.D
Acq On : 07 Apr 2019 07:13
Operator : JC/SP
Sample : K2249-15
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 51 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : E3YE7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
Quant Title : VOC Analysis

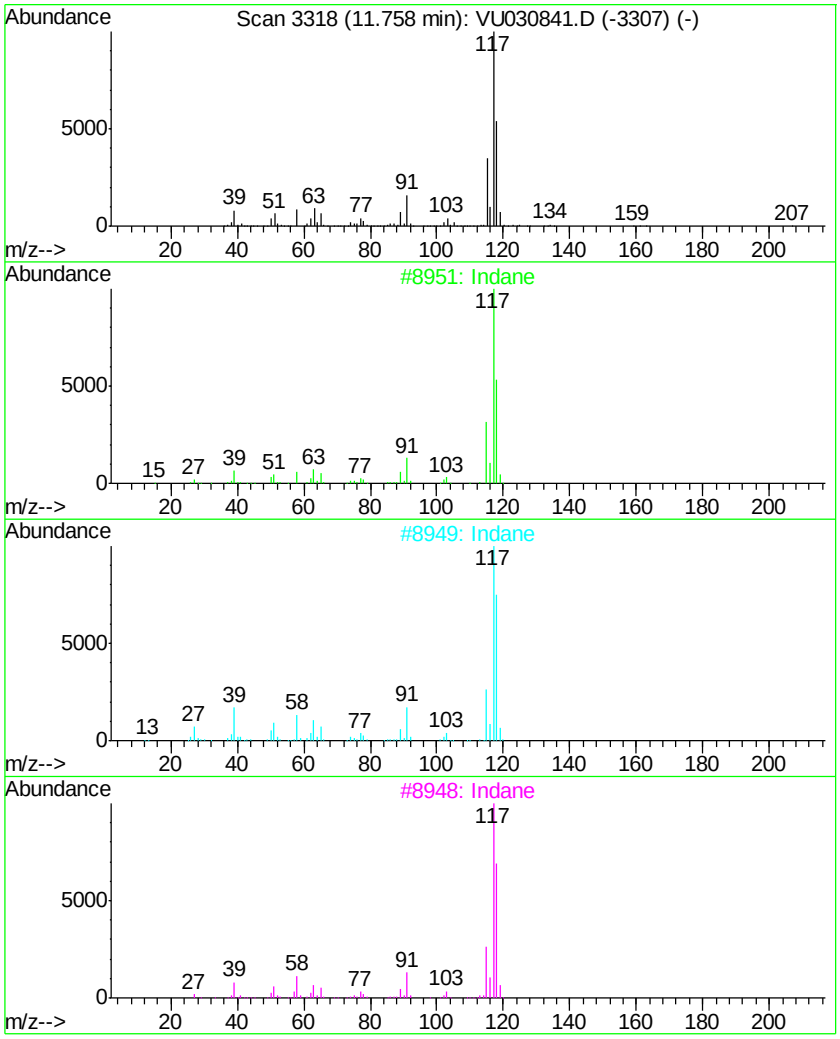
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

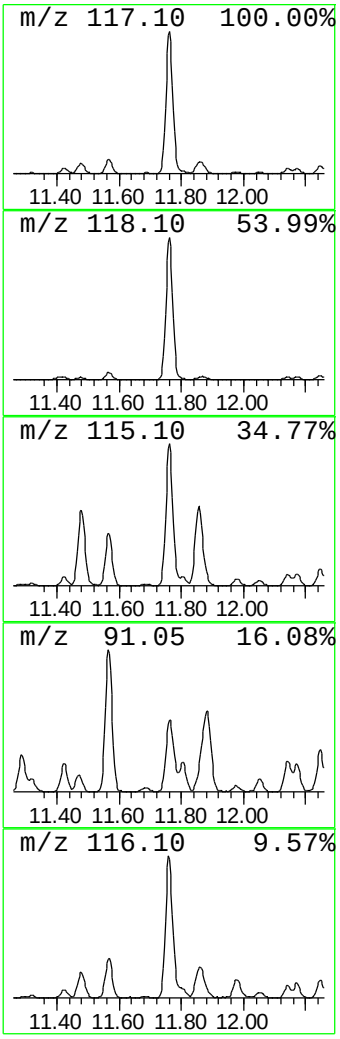
****

Peak Number 12 Indane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.76	82.24 ug/L	2969640	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	94
2	Indane	118	C9H10	000496-11-7	92
3	Indane	118	C9H10	000496-11-7	81
4	Benzene, cyclopropyl-	118	C9H10	000873-49-4	81
5	Benzene, 1-ethenyl-2-methyl-	118	C9H10	000611-15-4	76





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040719\
Data File : VU030841.D
Acq On : 07 Apr 2019 07:13
Operator : JC/SP
Sample : K2249-15
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 51 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : E3YE7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
Quant Title : VOC Analysis

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

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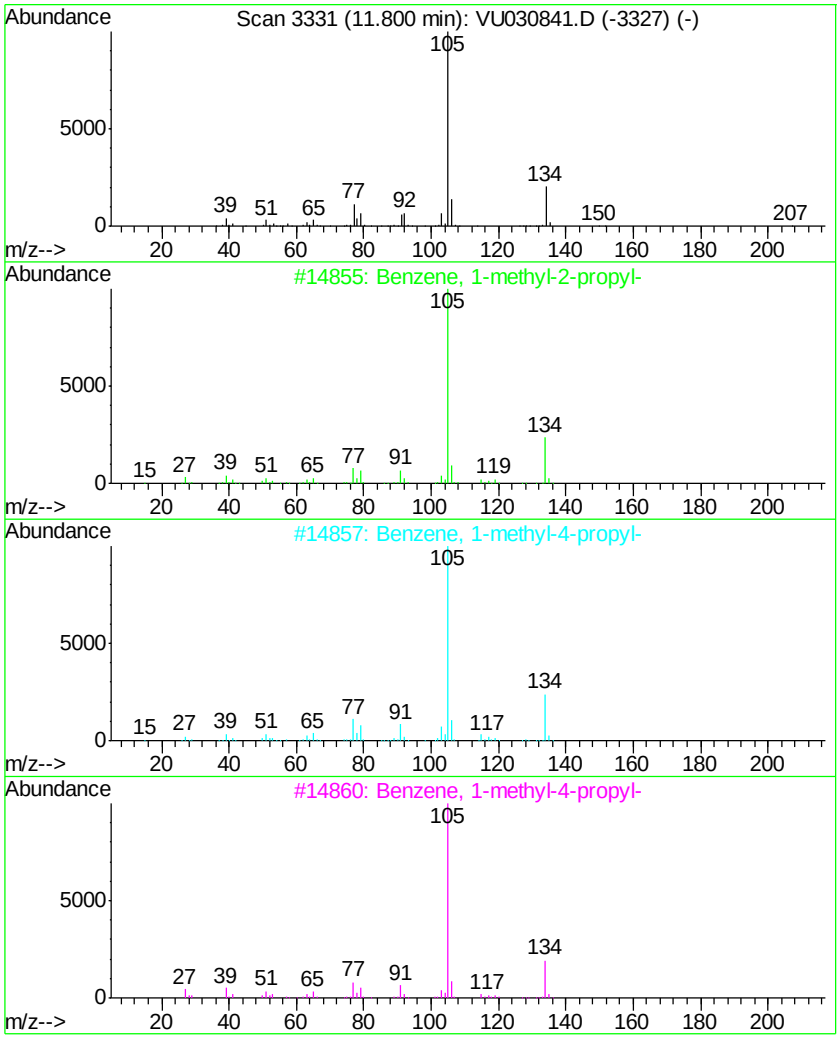
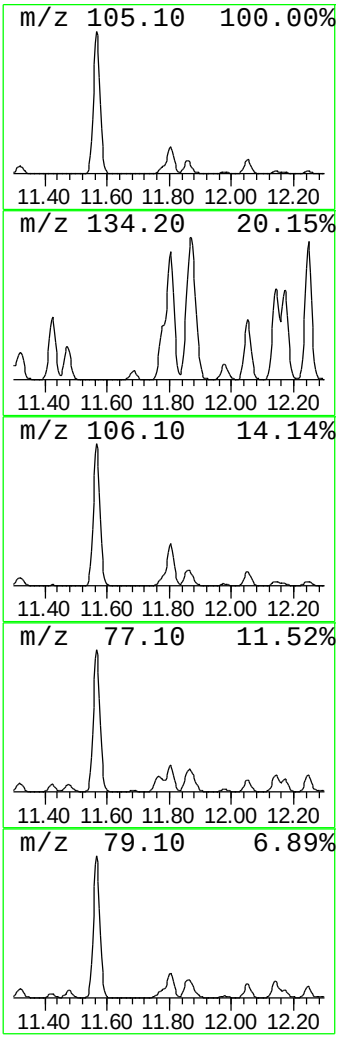
Peak Number 13 Benzene, 1-methyl-2-propyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.80	32.78 ug/L	1183760	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	91
2	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	91
3	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	83
4	Benzene, 1-methyl-3-propyl-	134	C10H14	001074-43-7	83
5	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	83





Library Search Compound Report

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Data File : VU030841.D
Acq On : 07 Apr 2019 07:13
Operator : JC/SP
Sample : K2249-15
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 51 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : E3YE7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
Quant Title : VOC Analysis

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

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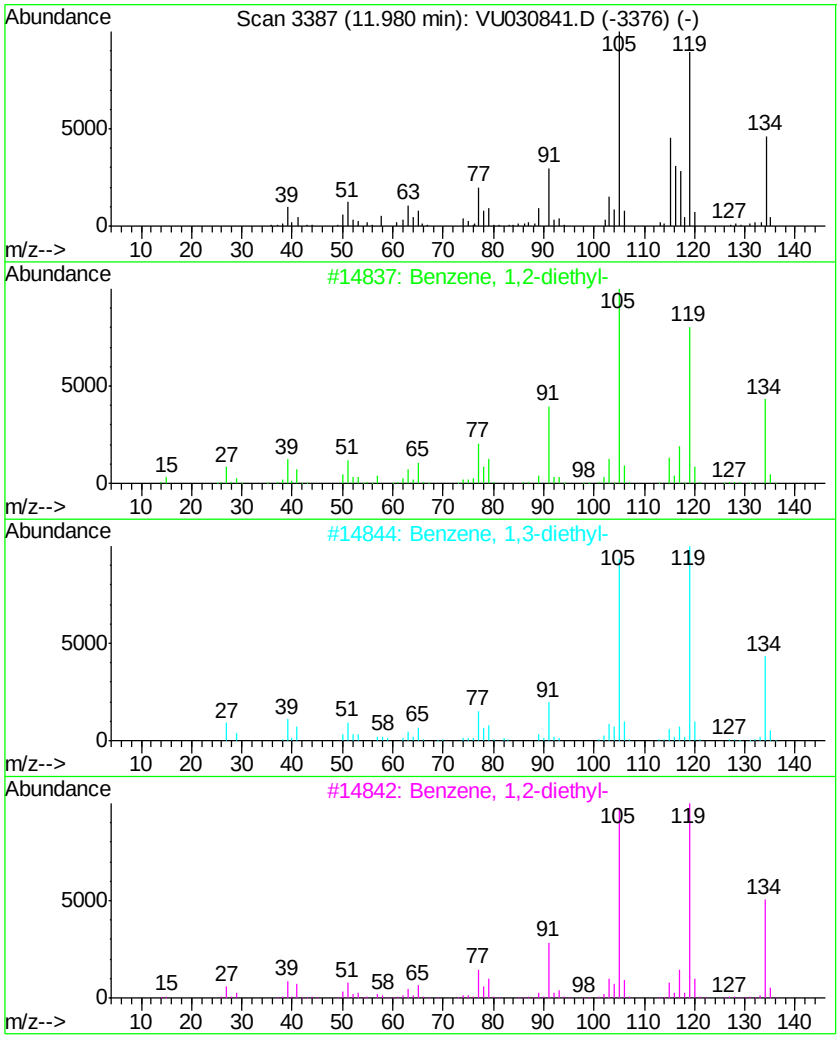
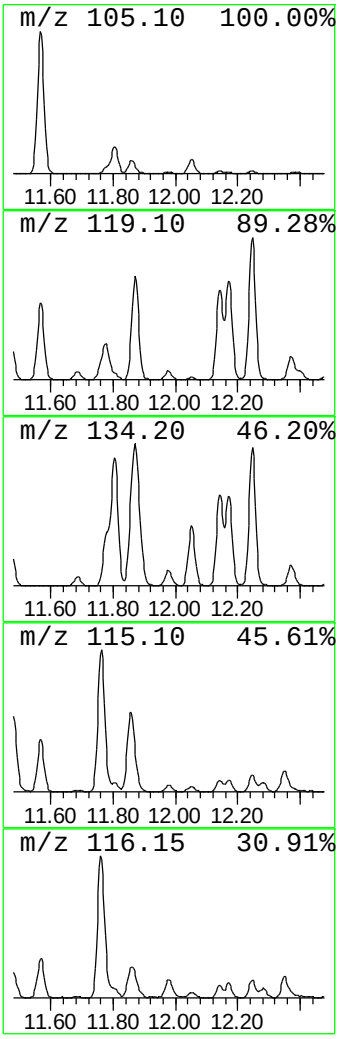
Peak Number 14 Benzene, 1,2-diethyl- Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.98	5.05 ug/L	182336	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2-diethyl-	134	C10H14	000135-01-3	76
2	Benzene, 1,3-diethyl-	134	C10H14	000141-93-5	70
3	Benzene, 1,2-diethyl-	134	C10H14	000135-01-3	70
4	Benzene, 1,4-diethyl-	134	C10H14	000105-05-5	70
5	Benzene, 1,3-diethyl-	134	C10H14	000141-93-5	68





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040719\
Data File : VU030841.D
Acq On : 07 Apr 2019 07:13
Operator : JC/SP
Sample : K2249-15
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 51 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : E3YE7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
Quant Title : VOC Analysis

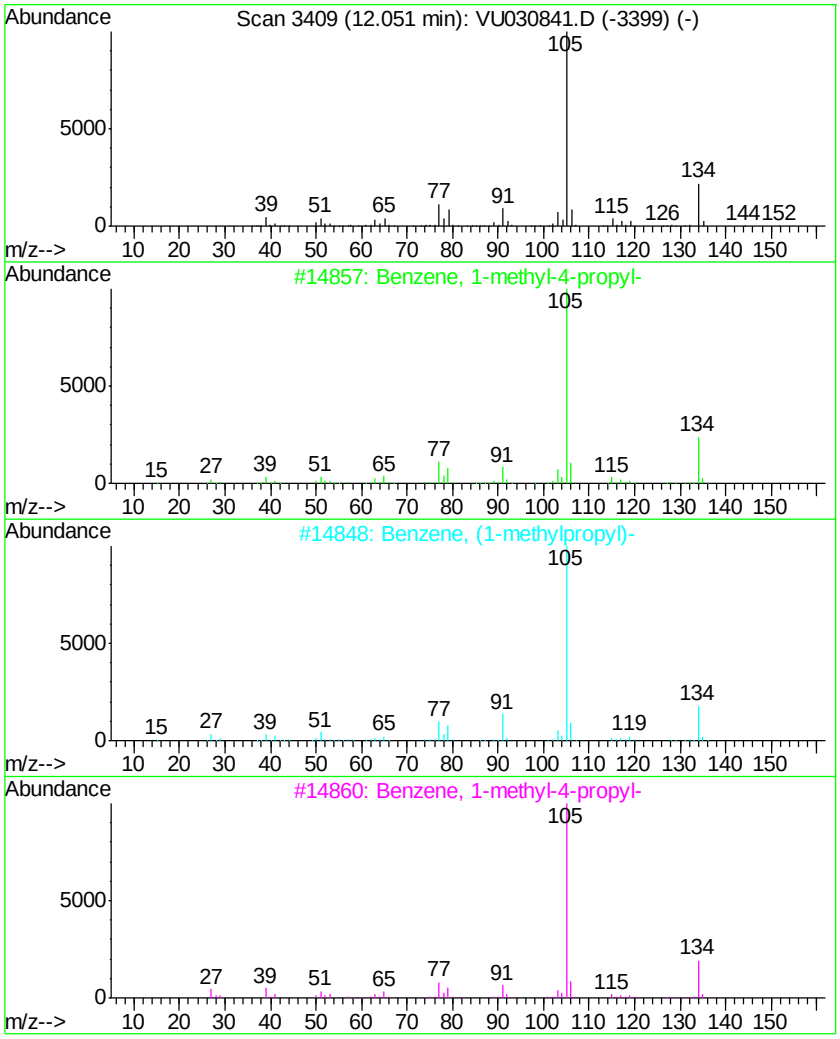
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

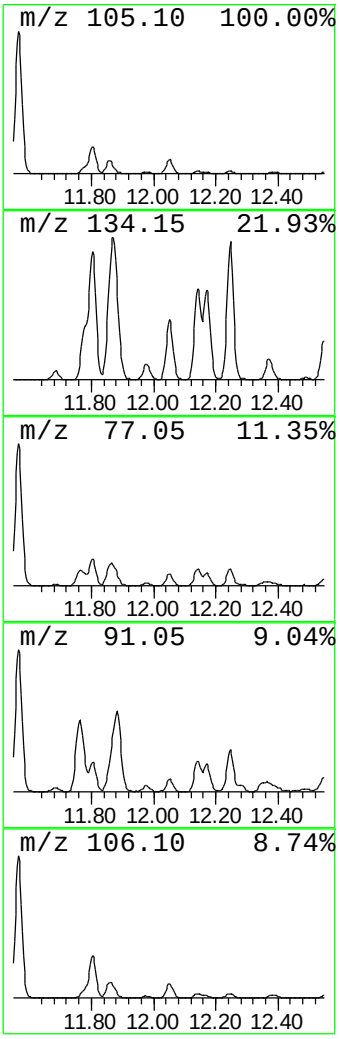
****

Peak Number 15 Benzene, 1-methyl-4-propyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.05	16.41 ug/L	592575	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	94
2	Benzene, (1-methylpropyl)-	134	C10H14	000135-98-8	91
3	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	91
4	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	91
5	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	91





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040719\
Data File : VU030841.D
Acq On : 07 Apr 2019 07:13
Operator : JC/SP
Sample : K2249-15
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 51 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : E3YE7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
Quant Title : VOC Analysis

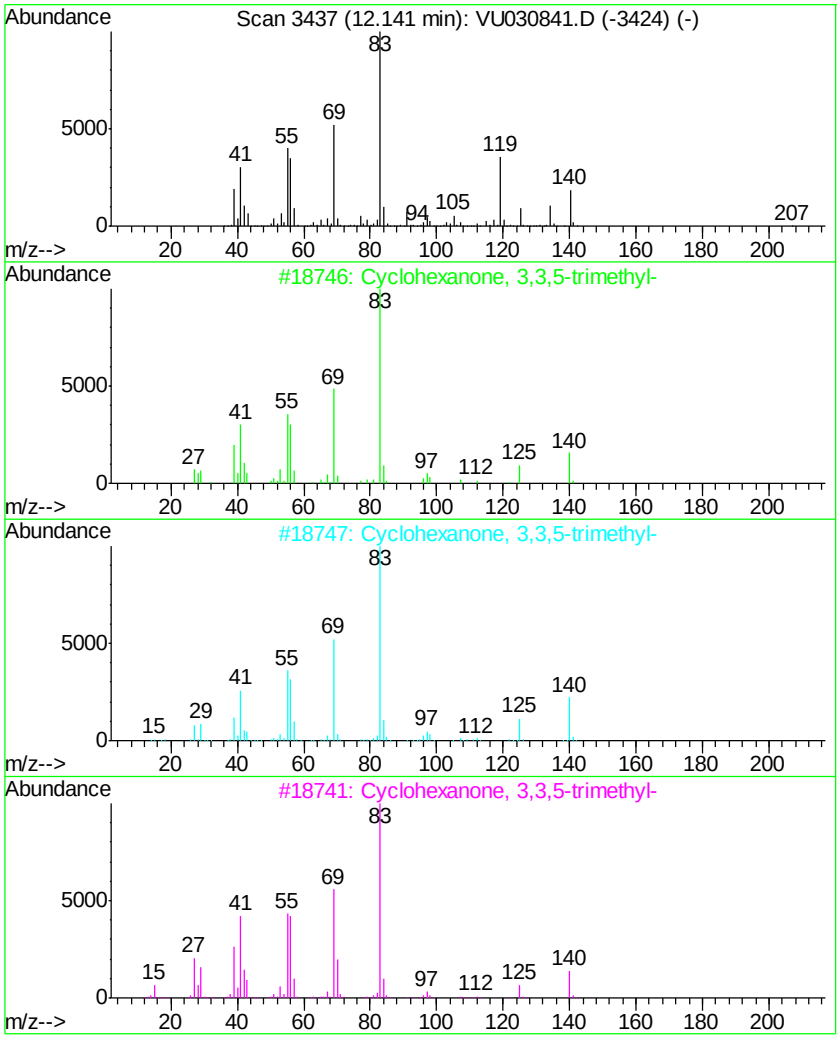
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

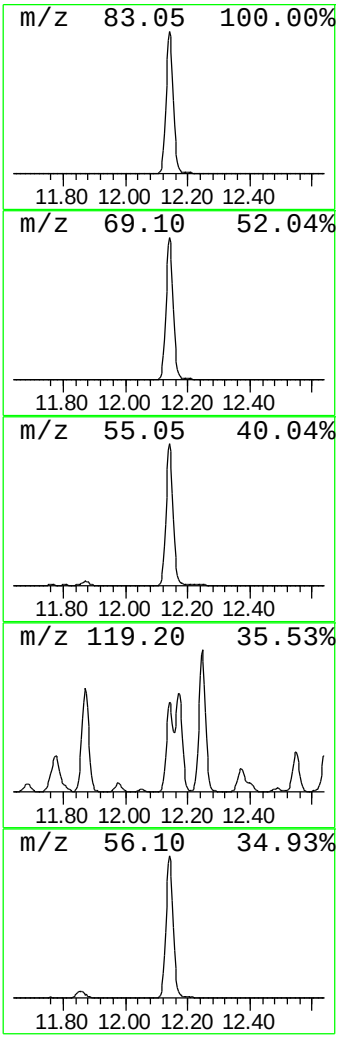
****

Peak Number 16 Cyclohexanone, 3,3,5-trimet... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.14	137.58 ug/L	4967990	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	95
2	Cyclohexanone, 3,3,5-trimethyl-	140	C9H16O	000873-94-9	93
3	Cyclohexanone, 3,3,5-trimethyl-	140	C9H16O	000873-94-9	70
4	1H-1,2,4-Triazole, 3-methyl-	83	C3H5N3	007170-01-6	47
5	Cyclohexanespiro-5'-(2',4',4'-tr...	181	C11H19NO	091875-85-3	43





Library Search Compound Report

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Data File : VU030841.D
Acq On : 07 Apr 2019 07:13
Operator : JC/SP
Sample : K2249-15
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 51 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : E3YE7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
Quant Title : VOC Analysis

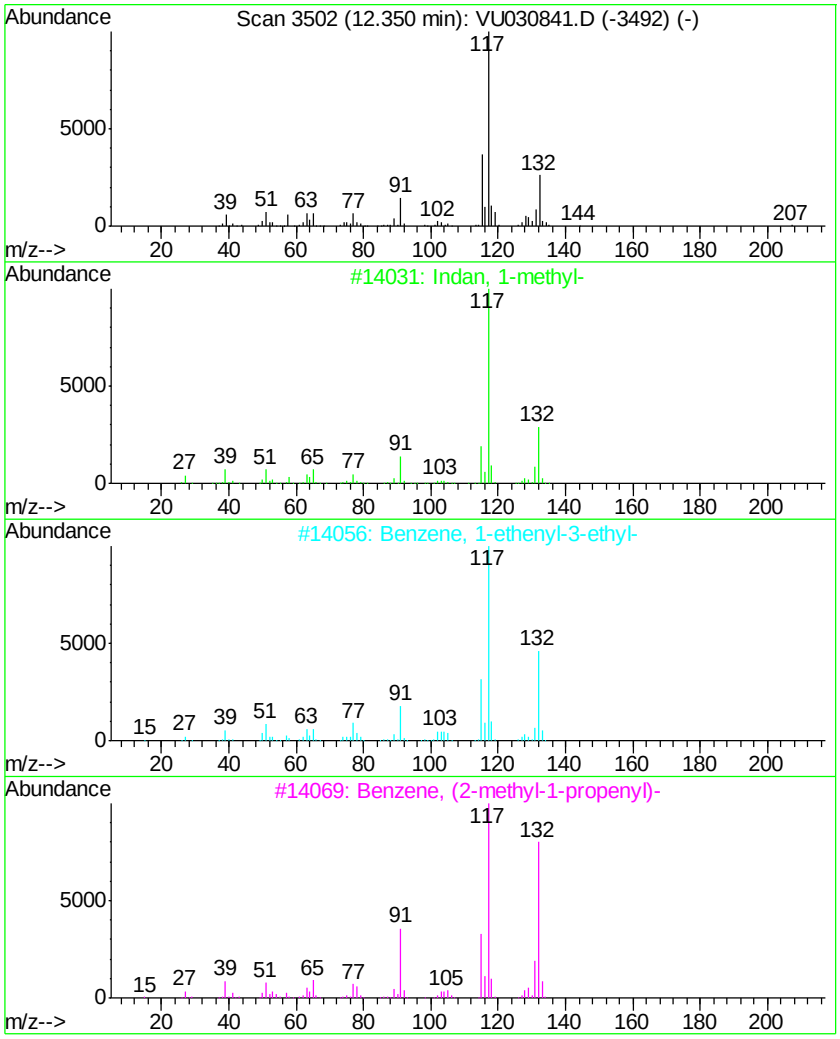
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

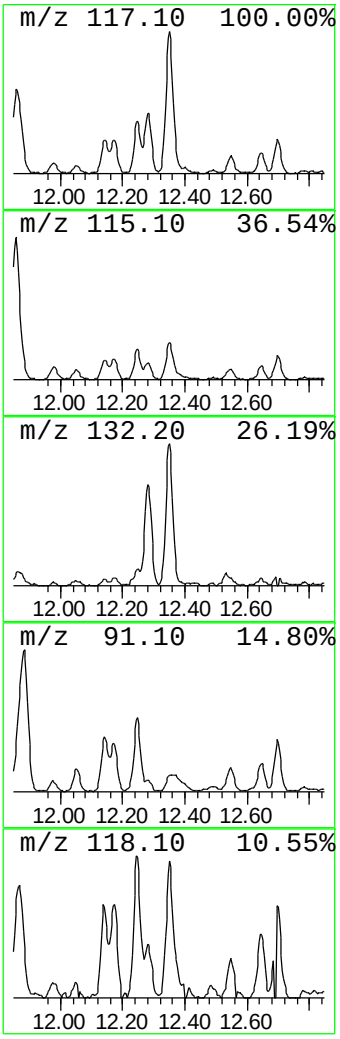
****

Peak Number 18 Indan, 1-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.35	18.49 ug/L	667784	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indan, 1-methyl-	132	C10H12	000767-58-8	91
2	Benzene, 1-ethenyl-3-ethyl-	132	C10H12	007525-62-4	86
3	Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	86
4	Benzene, 1-methyl-2-(2-propenyl)-	132	C10H12	001587-04-8	83
5	(E)-1-Phenyl-1-butene	132	C10H12	001005-64-7	83





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Acq On : 07 Apr 2019 07:13
Operator : JC/SP
Sample : K2249-15
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 51 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : E3YE7

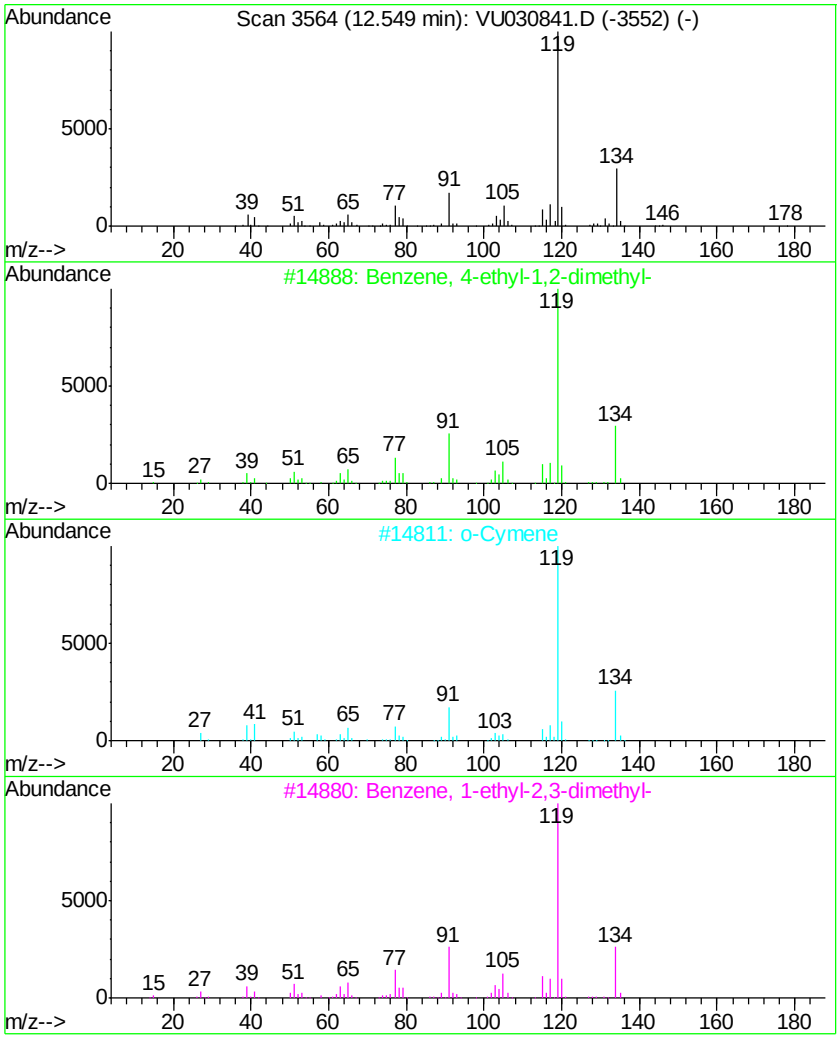
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
Quant Title : VOC Analysis

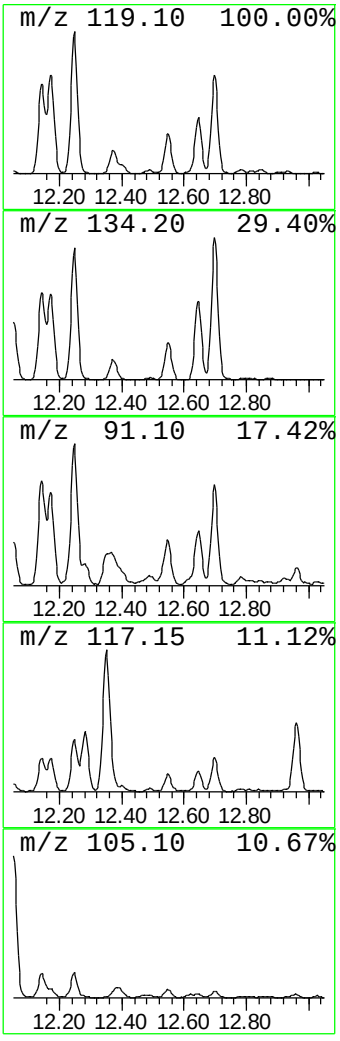
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 19 Benzene, 4-ethyl-1,2-dimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.55	11.28 ug/L	407344	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	96
2	o-Cymene	134	C10H14	000527-84-4	95
3	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	95
4	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	95
5	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	94





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Data File : VU030841.D
Acq On : 07 Apr 2019 07:13
Operator : JC/SP
Sample : K2249-15
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 51 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : E3YE7

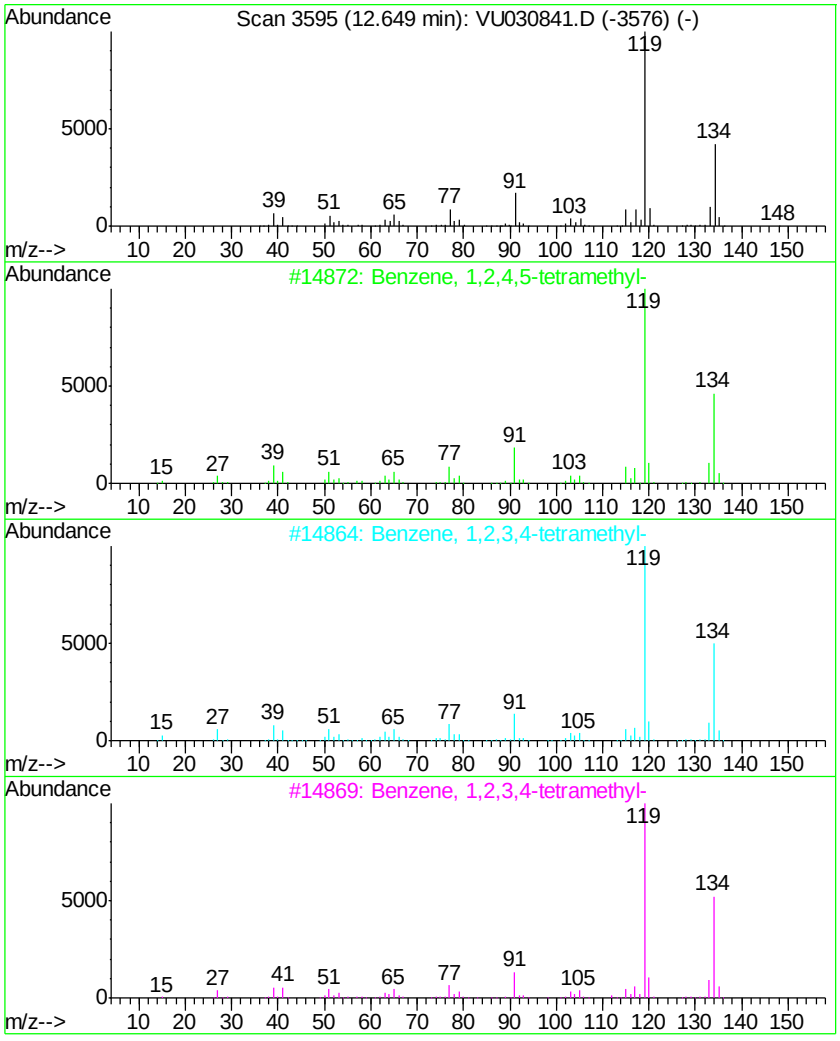
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
Quant Title : VOC Analysis

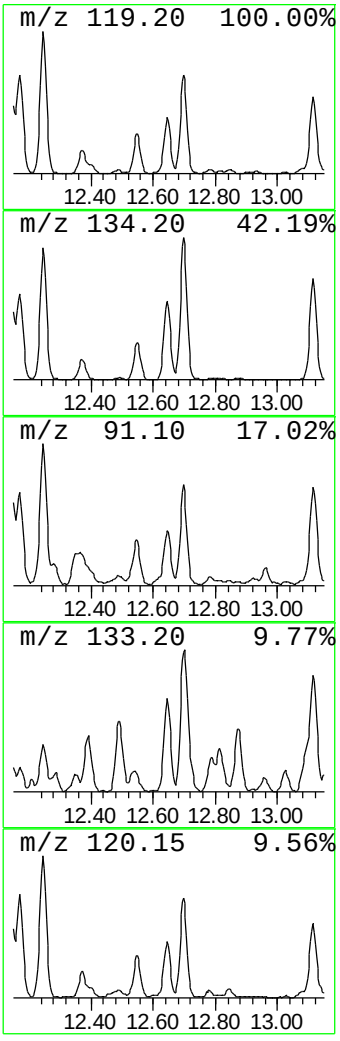
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 20 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.65	15.22 ug/L	549711	1,4-Dichlorobenzene-d4	11.48

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





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040719\
Data File : VU030841.D
Acq On : 07 Apr 2019 07:13
Operator : JC/SP
Sample : K2249-15
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 51 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : E3YE7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
Quant Title : VOC Analysis

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

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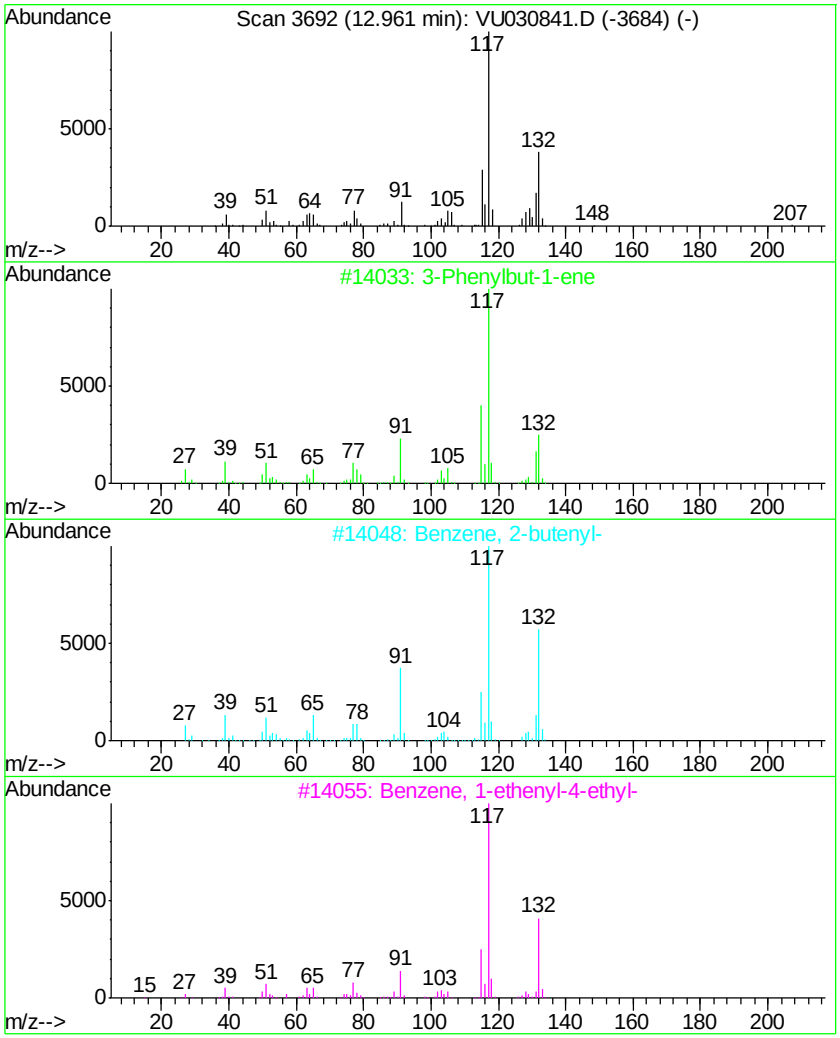
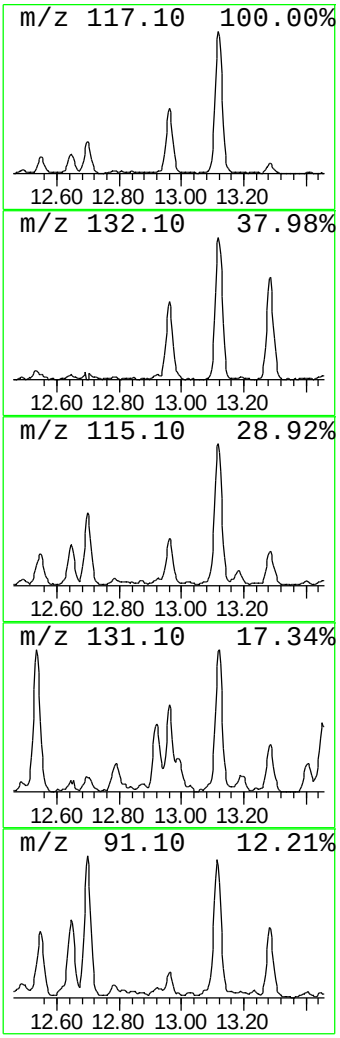
Peak Number 22 3-Phenylbut-1-ene Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.96	5.88 ug/L	212221	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Phenylbut-1-ene	132	C10H12	000934-10-1	90
2	Benzene, 2-butenyl-	132	C10H12	001560-06-1	87
3	Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	87
4	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000768-00-3	87
5	1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	87





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040719\
Data File : VU030841.D
Acq On : 07 Apr 2019 07:13
Operator : JC/SP
Sample : K2249-15
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 51 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : E3YE7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
Quant Title : VOC Analysis

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

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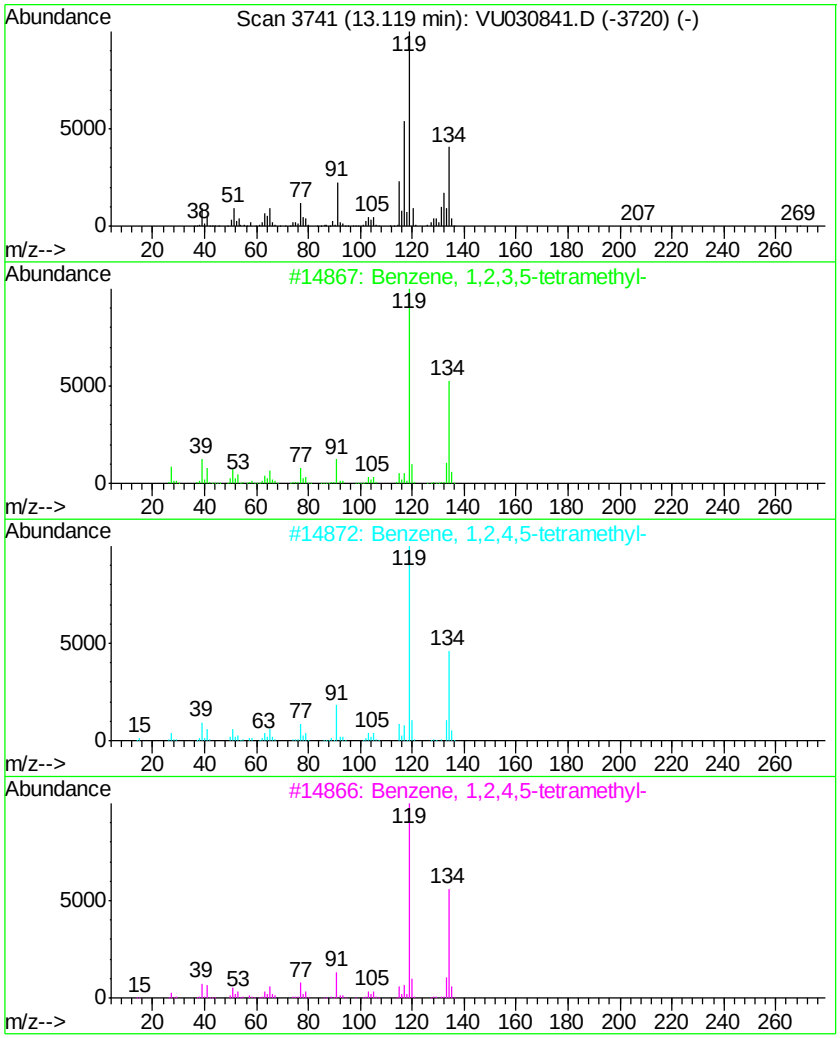
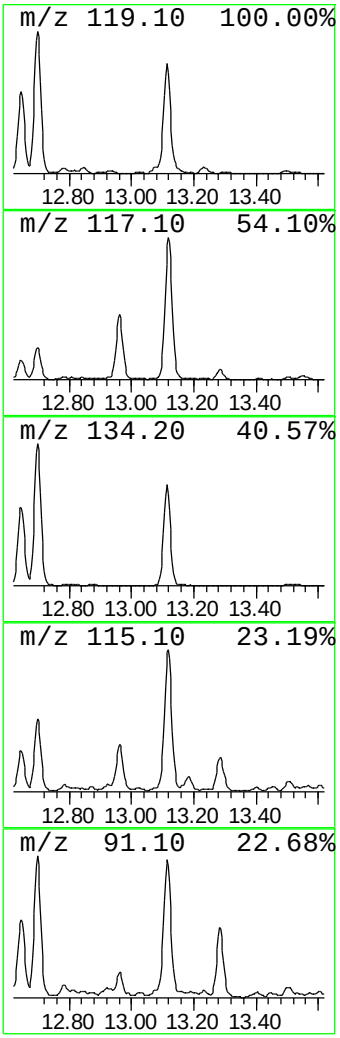
Peak Number 23 Benzene, 1,2,3,5-tetramethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.12	31.51 ug/L	1137990	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	64
2	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	64
3	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	64
4	o-Cymene	134	C10H14	000527-84-4	64
5	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	64





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040719\
Data File : VU030841.D
Acq On : 07 Apr 2019 07:13
Operator : JC/SP
Sample : K2249-15
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 51 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : E3YE7

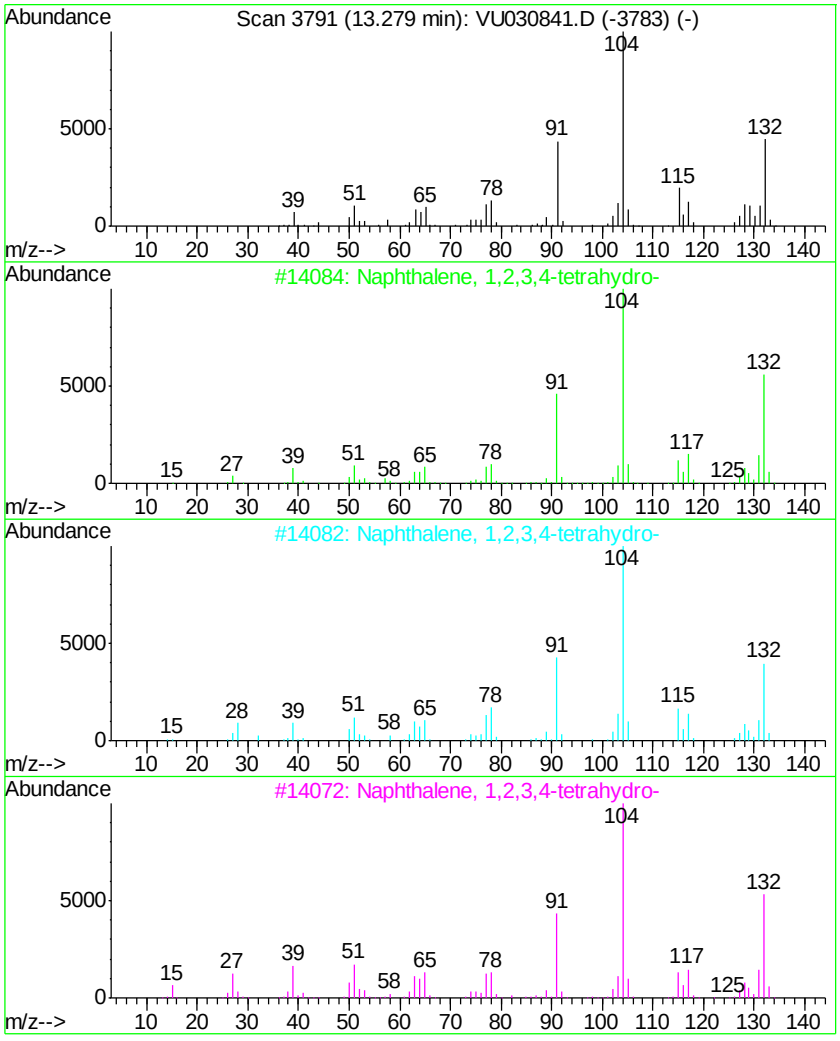
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
Quant Title : VOC Analysis

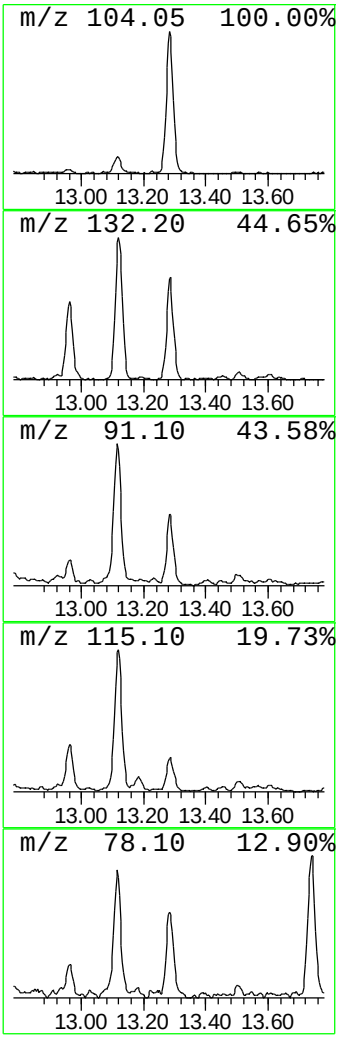
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 24 Naphthalene, 1,2,3,4-tetrah... Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.28	7.50 ug/L	270892	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	93
2	Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	90
3	Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	60
4	Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	60
5	Indan, epoxide	132	C9H8O	000768-22-9	53





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040719\
Data File : VU030841.D
Acq On : 07 Apr 2019 07:13
Operator : JC/SP
Sample : K2249-15
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 51 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : E3YE7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
Quant Title : VOC Analysis

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

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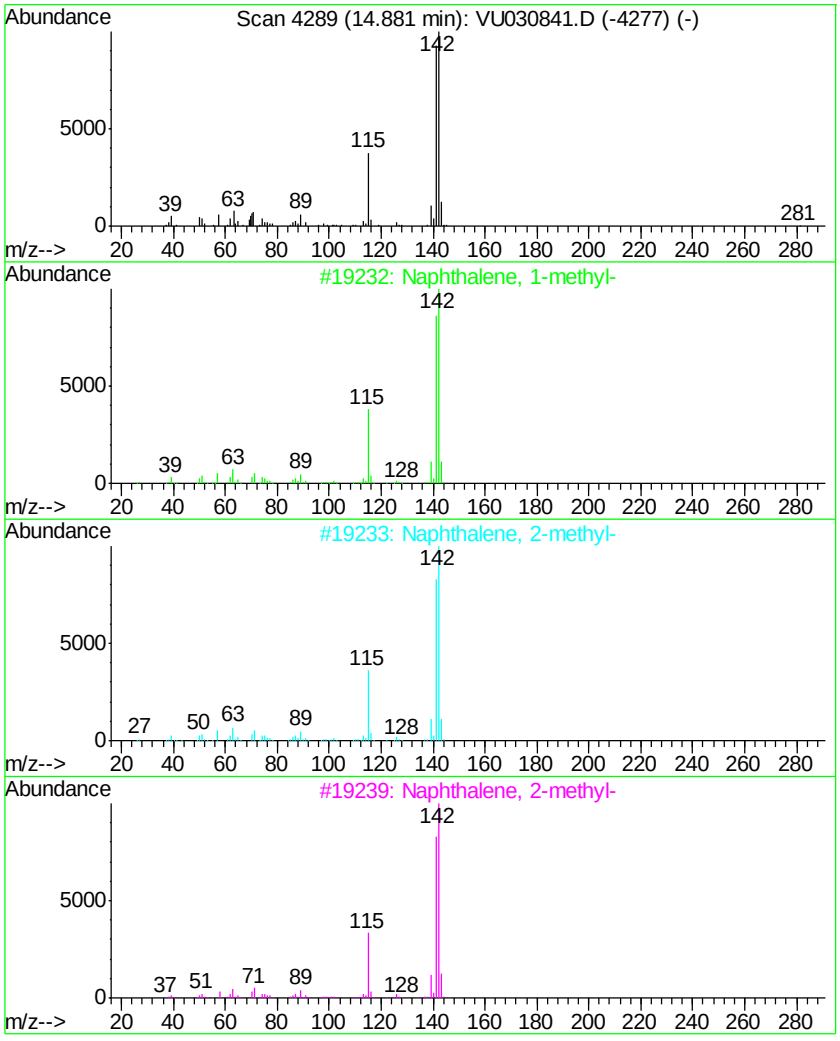
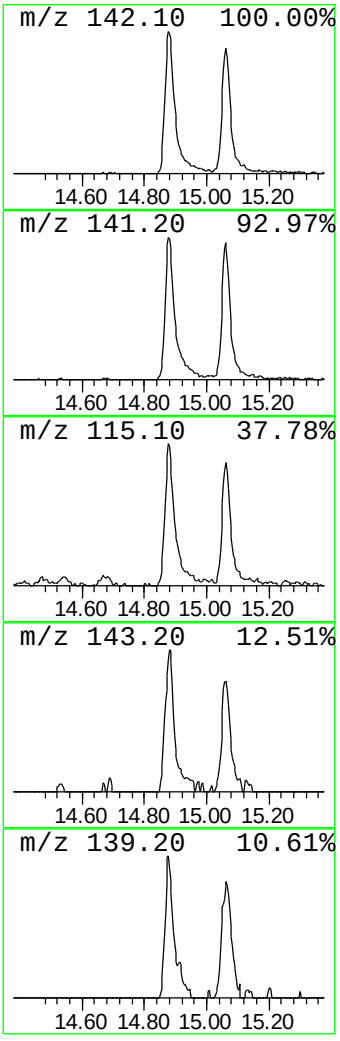
Peak Number 26 Naphthalene, 1-methyl- Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.88	5.24 ug/L	189357	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	97
2	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	96
3	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	96
4	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	91
5	Benzocycloheptatriene	142	C11H10	000264-09-5	91





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040719\
Data File : VU030841.D
Acq On : 07 Apr 2019 07:13
Operator : JC/SP
Sample : K2249-15
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 51 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : E3YE7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
Quant Title : VOC Analysis

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

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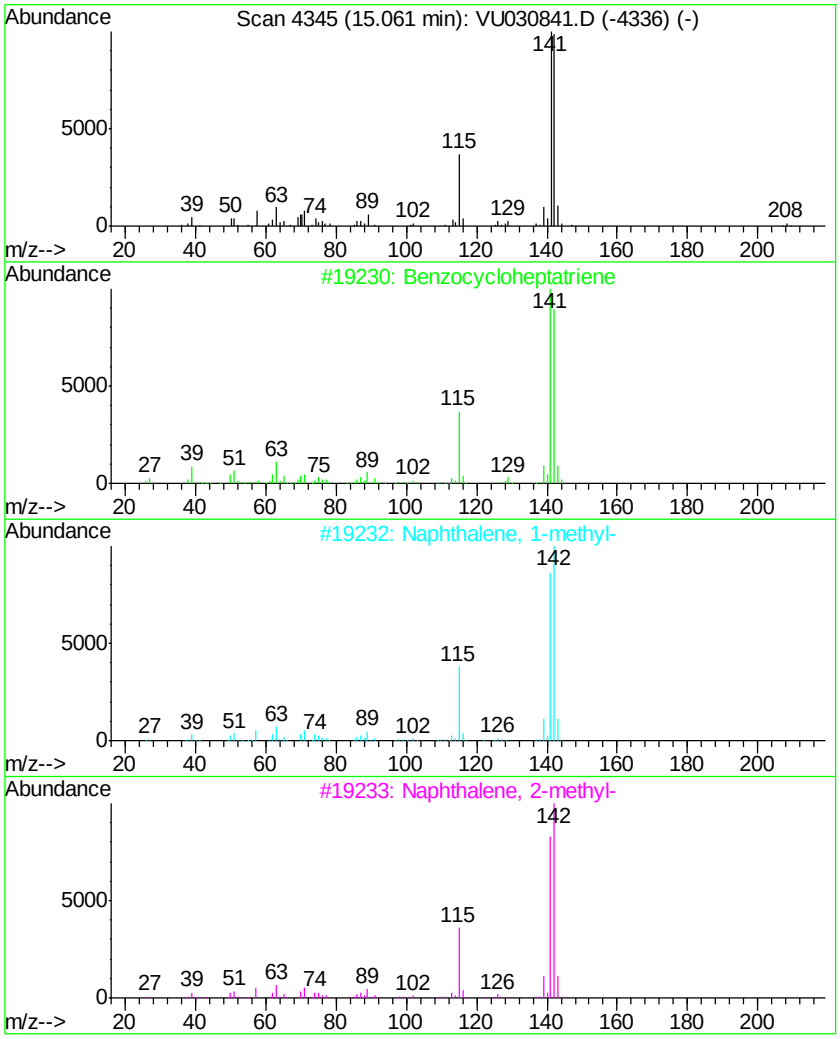
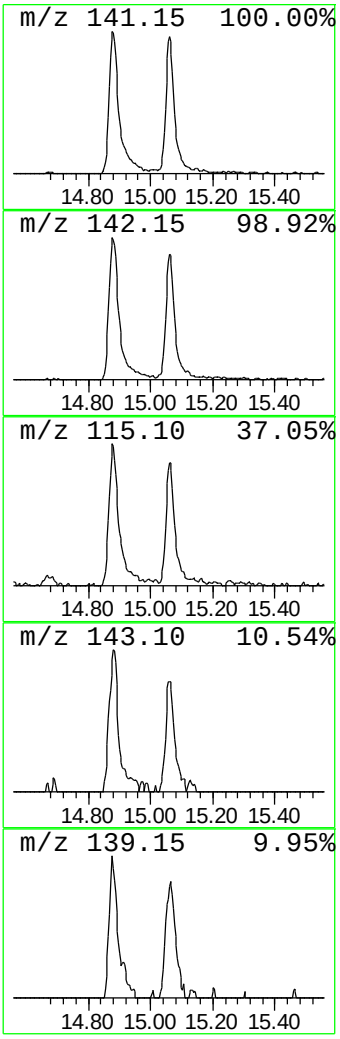
Peak Number 27 Benzocycloheptatriene Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.06	3.73 ug/L	134845	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzocycloheptatriene	142	C11H10	000264-09-5	96
2	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	96
3	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	96
4	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	95
5	1,4-Methanonaphthalene, 1,4-dihy...	142	C11H10	004453-90-1	93





Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040719\
Data File : VU030841.D
Acq On : 07 Apr 2019 07:13
Operator : JC/SP
Sample : K2249-15
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 51 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : E3YE7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.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
9-Octadecyne	9.95	2.7	ug/L	81348	2	9.09	1529660	50.0
Benzene, propyl-	10.58	57.8	ug/L	2088330	3	11.48	1805500	50.0
Benzene, 1,2,3-tr...	10.77	97.7	ug/L	3527900	3	11.48	1805500	50.0
Benzene, 1-ethyl-...	10.97	132.4	ug/L	4780330	3	11.48	1805500	50.0
Benzene, (2-methy...	11.29	4.6	ug/L	167703	3	11.48	1805500	50.0
Oxirane, 2-methyl...	11.32	9.8	ug/L	354984	3	11.48	1805500	50.0
o-Cymene	11.42	17.0	ug/L	614854	3	11.48	1805500	50.0
Indane	11.76	82.2	ug/L	2969640	3	11.48	1805500	50.0
Benzene, 1-methyl...	11.80	32.8	ug/L	1183760	3	11.48	1805500	50.0
Benzene, 1,2-diet...	11.98	5.0	ug/L	182336	3	11.48	1805500	50.0
Benzene, 1-methyl...	12.05	16.4	ug/L	592575	3	11.48	1805500	50.0
Cyclohexanone, 3,...	12.14	137.6	ug/L	4967990	3	11.48	1805500	50.0
Indan, 1-methyl-	12.35	18.5	ug/L	667784	3	11.48	1805500	50.0
Benzene, 4-ethyl-...	12.55	11.3	ug/L	407344	3	11.48	1805500	50.0
Benzene, 1,2,4,5-...	12.65	15.2	ug/L	549711	3	11.48	1805500	50.0
3-Phenylbut-1-ene	12.96	5.9	ug/L	212221	3	11.48	1805500	50.0
Benzene, 1,2,3,5-...	13.12	31.5	ug/L	1137990	3	11.48	1805500	50.0
Naphthalene, 1,2,...	13.28	7.5	ug/L	270892	3	11.48	1805500	50.0
Naphthalene, 1-me...	14.88	5.2	ug/L	189357	3	11.48	1805500	50.0
Benzocycloheptatr...	15.06	3.7	ug/L	134845	3	11.48	1805500	50.0