LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032358.D
Acq On : 29 May 2019 14:05
Operator : JC/SP
Sample : K3045-11 20X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C55

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.1 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\SOMUTR052219WMA.M
Title : TRACE VOA SOM01.0

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.302	57	66	70	rBV3	45670	57221	3.96%	0.245%
2	1.399	89	96	105	rBV2	297933	345644	23.94%	1.482%
3	1.675	176	182	196	rVB	164809	214930	14.89%	0.921%
4	1.753	197	206	223	rVB	342482	448131	31.04%	1.921%
5	1.945	257	266	276	rVB	85623	117180	8.12%	0.502%
6	2.270	357	367	396	rVB	368627	606020	41.98%	2.598%
7	2.701	491	501	505	rBV2	50396	88913	6.16%	0.381%
8	2.736	506	512	520	rVV2	84685	153775	10.65%	0.659%
9	2.781	520	526	535	rVV2	58709	110648	7.66%	0.474%
10	2.836	537	543	557	rVB2	34260	69856	4.84%	0.299%
11	2.987	576	590	602	rVB3	88088	187184	12.97%	0.802%
12	3.289	670	684	702	rVB5	17604	43566	3.02%	0.187%
13	3.842	842	856	867	rBV4	6992	18441	1.28%	0.079%
14	3.984	884	900	912	rBV5	17799	47684	3.30%	0.204%
15	4.084	912	931	950	rVB5	101262	276729	19.17%	1.186%
16	4.196	951	966	1009	rBV	206849	624940	43.29%	2.679%
17	4.643	1089	1105	1122	rBV	244169	577885	40.03%	2.477%
18	4.720	1123	1129	1142	rVB4	13145	29674	2.06%	0.127%
19	4.981	1193	1210	1224	rBV4	71075	177077	12.27%	0.759%
20	5.071	1224	1238	1259	rVB3	58817	146015	10.11%	0.626%
21	5.209	1267	1281	1300	rBV2	68011	170393	11.80%	0.730%
22	5.334	1300	1320	1329	rBV2	533741	1422154	98.52%	6.096%
23	5.383	1330	1335	1352	rVB	254776	473407	32.79%	2.029%
24	5.469	1353	1362	1363	rBV5	26682	29555	2.05%	0.127%
25	5.537	1372	1383	1396	rVB3	42385	118591	8.22%	0.508%
26	5.614	1396	1407	1418	rVB4	17377	37945	2.63%	0.163%
27	5.881	1476	1490	1527	rBV	462528	954909	66.15%	4.093%
28	6.328	1615	1629	1642	rBV	314507	633066	43.85%	2.713%
29	6.405	1645	1653	1664	rVV4	39559	92175	6.39%	0.395%
30	6.466	1664	1672	1680	rVV2	17582	29720	2.06%	0.127%
31	6.527	1681	1691	1701	rVB4	26526	49538	3.43%	0.212%
32	6.633	1715	1724	1736	rVB6	10119	20919	1.45%	0.090%
33	6.730	1736	1754	1767	rBV7	17200	41766	2.89%	0.179%
34	6.916	1797	1812	1832	rVB5	30143	76505	5.30%	0.328%

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032358.D
Acq On : 29 May 2019 14:05
Operator : JC/SP
Sample : K3045-11 20X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C55

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.1 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\SOMUTR052219WMA.M
Title : TRACE VOA SOM01.0

35	7.042	1832	1851	1862	rBV4	35880	83831	5.81%	0.359%
36	7.100	1862	1869	1879	rVB4	18646	32631	2.26%	0.140%
37	7.225	1897	1908	1923	rBV	163407	299972	20.78%	1.286%
38	7.559	1987	2012	2030	rBV	706748	1302639	90.24%	5.583%
39	7.633	2033	2035	2046	rVB3	12517	17555	1.22%	0.075%
40	7.849	2090	2102	2114	rBV	93458	168051	11.64%	0.720%
41	7.910	2118	2121	2134	rVB6	13643	19855	1.38%	0.085%
42	8.042	2154	2162	2171	rVB6	14314	23892	1.66%	0.102%
43	8.312	2233	2246	2277	rBV	759483	1443570	100.00%	6.187%
44	8.537	2308	2316	2326	rVB10	9766	17315	1.20%	0.074%
45	9.029	2455	2469	2474	rBV9	9608	19868	1.38%	0.085%
46	9.087	2475	2487	2508	rVV	651406	1107072	76.69%	4.745%
47	9.244	2525	2536	2553	rBV	341036	558602	38.70%	2.394%
48	9.373	2564	2576	2593	rBV	566044	962054	66.64%	4.124%
49	10.164	2811	2822	2836	rBV	109228	177236	12.28%	0.760%
50	10.427	2892	2904	2918	rBV	259275	420519	29.13%	1.802%
51	10.585	2942	2953	2965	rBV	153358	237886	16.48%	1.020%
52	10.678	2971	2982	2986	rBV	155881	236286	16.37%	1.013%
53	10.768	3000	3010	3026	rVB	108100	178239	12.35%	0.764%
54	10.968	3059	3072	3091	rBV	129983	220460	15.27%	0.945%
55	11.144	3115	3127	3153	rVB	795276	1214682	84.14%	5.206%
56	11.289	3164	3172	3176	rBV2	20531	31916	2.21%	0.137%
57	11.321	3176	3182	3196	rVB2	35259	58030	4.02%	0.249%
58	11.424	3205	3214	3220	rBV2	19497	27781	1.92%	0.119%
59	11.479	3220	3231	3249	rVV	705701	1125163	77.94%	4.823%
60	11.566	3249	3258	3272	rVB	154147	243346	16.86%	1.043%
61	11.762	3306	3319	3330	rBV2	409664	766601	53.10%	3.286%
62	11.855	3338	3348	3372	rVB	772812	1347536	93.35%	5.776%
63	11.977	3377	3386	3399	rVV4	27719	42040	2.91%	0.180%
64	12.051	3399	3409	3422	rVB	42205	70208	4.86%	0.301%
65	12.141	3428	3437	3442	rBV2	69984	104081	7.21%	0.446%
66	12.170	3443	3446	3459	rVB2	56171	75621	5.24%	0.324%
67	12.247	3459	3470	3477	rBV	111680	184219	12.76%	0.790%
68	12.283	3477	3481	3492	rVB	50287	70882	4.91%	0.304%
69	12.350	3492	3502	3510	rBV2	79959	142838	9.89%	0.612%
70	12.488	3534	3545	3554	rBV8	11848	23486	1.63%	0.101%
71	12.546	3554	3563	3575	rVB3	30007	51091	3.54%	0.219%

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032358.D
Acq On : 29 May 2019 14:05
Operator : JC/SP
Sample : K3045-11 20X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C55

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.1 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\SOMUTR052219WMA.M
Title : TRACE VOA SOM01.0

72	12.646	3575	3594	3602	rBV	69631	129760	8.99%	0.556%
73	12.697	3602	3610	3623	rVB	88409	144300	10.00%	0.619%
74	12.784	3628	3637	3644	rBV2	30512	52672	3.65%	0.226%
75	12.919	3669	3679	3684	rBV6	13514	27312	1.89%	0.117%
76	12.961	3685	3692	3706	rVB2	66752	109971	7.62%	0.471%
77	13.077	3720	3728	3729	rBV	22647	21974	1.52%	0.094%
78	13.119	3732	3741	3758	rVB2	186449	314955	21.82%	1.350%
79	13.234	3770	3777	3785	rBV2	20319	31816	2.20%	0.136%
80	13.286	3787	3793	3802	rVB5	19323	29014	2.01%	0.124%
81	13.405	3822	3830	3837	rBV8	21876	37705	2.61%	0.162%
82	13.453	3837	3845	3852	rBV3	20084	27654	1.92%	0.119%
83	13.504	3852	3861	3868	rBV5	48866	79771	5.53%	0.342%
84	13.604	3887	3892	3899	rVB3	19951	24885	1.72%	0.107%
85	13.742	3926	3935	3945	rBV2	68644	113028	7.83%	0.484%
86	13.855	3959	3970	3988	rVB10	19484	48267	3.34%	0.207%
87	13.955	3991	4001	4012	rBV8	26715	59375	4.11%	0.254%
88	14.012	4013	4019	4026	rVB6	15195	20377	1.41%	0.087%
89	14.148	4052	4061	4078	rBV3	28906	52126	3.61%	0.223%
90	14.331	4109	4118	4135	rBV5	30287	68788	4.77%	0.295%
91	14.476	4156	4163	4173	rBV4	17431	26917	1.86%	0.115%
92	14.540	4173	4183	4194	rVB5	27488	53756	3.72%	0.230%
93	14.681	4216	4227	4238	rBV10	20013	45136	3.13%	0.193%
94	14.861	4275	4283	4285	rBV7	16866	21615	1.50%	0.093%
95	15.006	4322	4328	4338	rBV9	10223	18753	1.30%	0.080%
96	15.064	4338	4346	4357	rVV4	34128	61250	4.24%	0.263%
97	15.588	4498	4509	4515	rBV6	13869	25207	1.75%	0.108%
98	16.061	4648	4656	4663	rBV3	23728	38465	2.66%	0.165%
99	16.437	4764	4773	4778	rBV9	12612	19741	1.37%	0.085%
100	17.167	4996	5000	5011	rVB7	17855	26684	1.85%	0.114%

Sum of corrected areas: 23330484

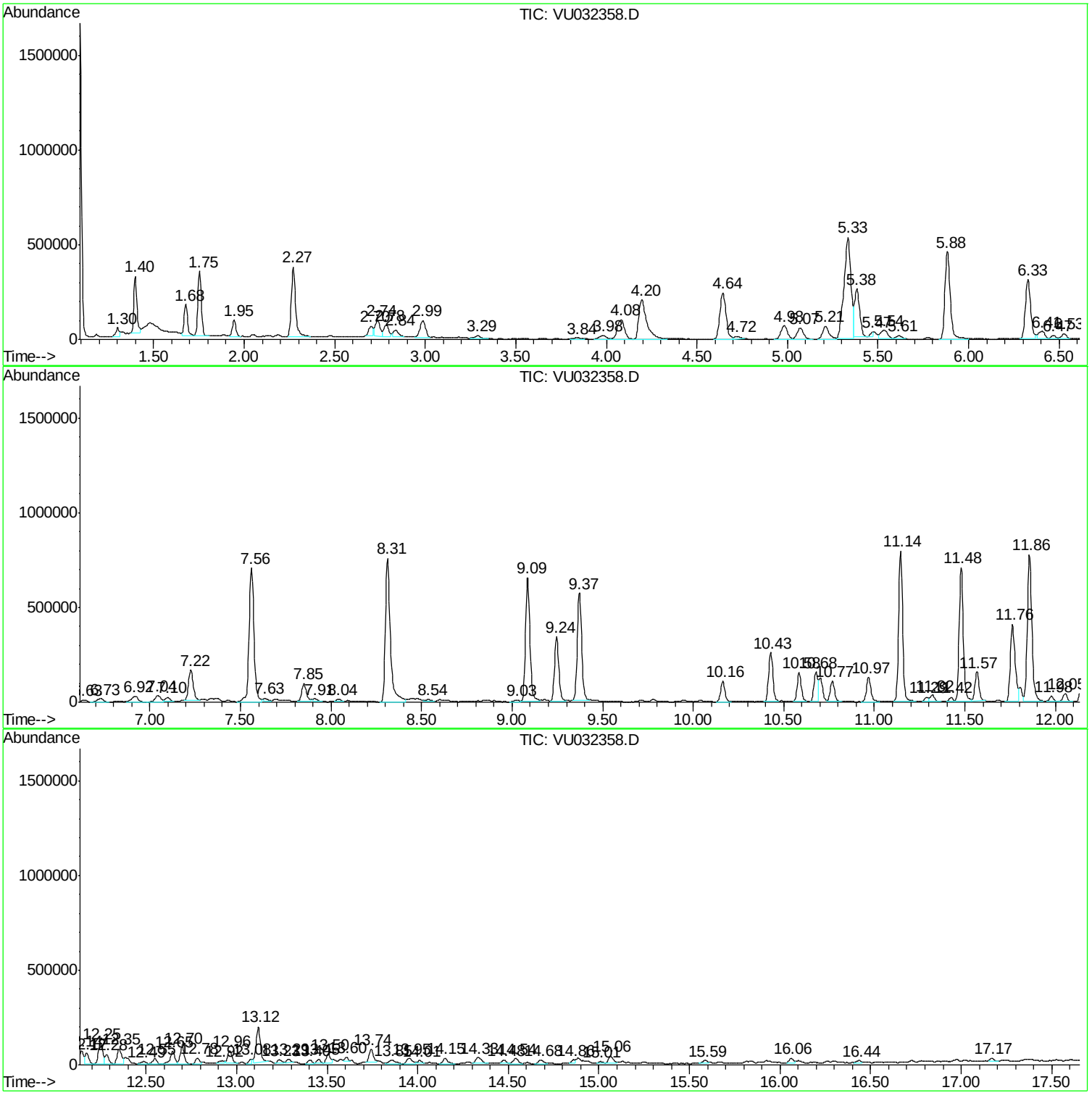
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032358.D
Acq On : 29 May 2019 14:05
Operator : JC/SP
Sample : K3045-11 20X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

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



Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032358.D
Acq On : 29 May 2019 14:05
Operator : JC/SP
Sample : K3045-11 20X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

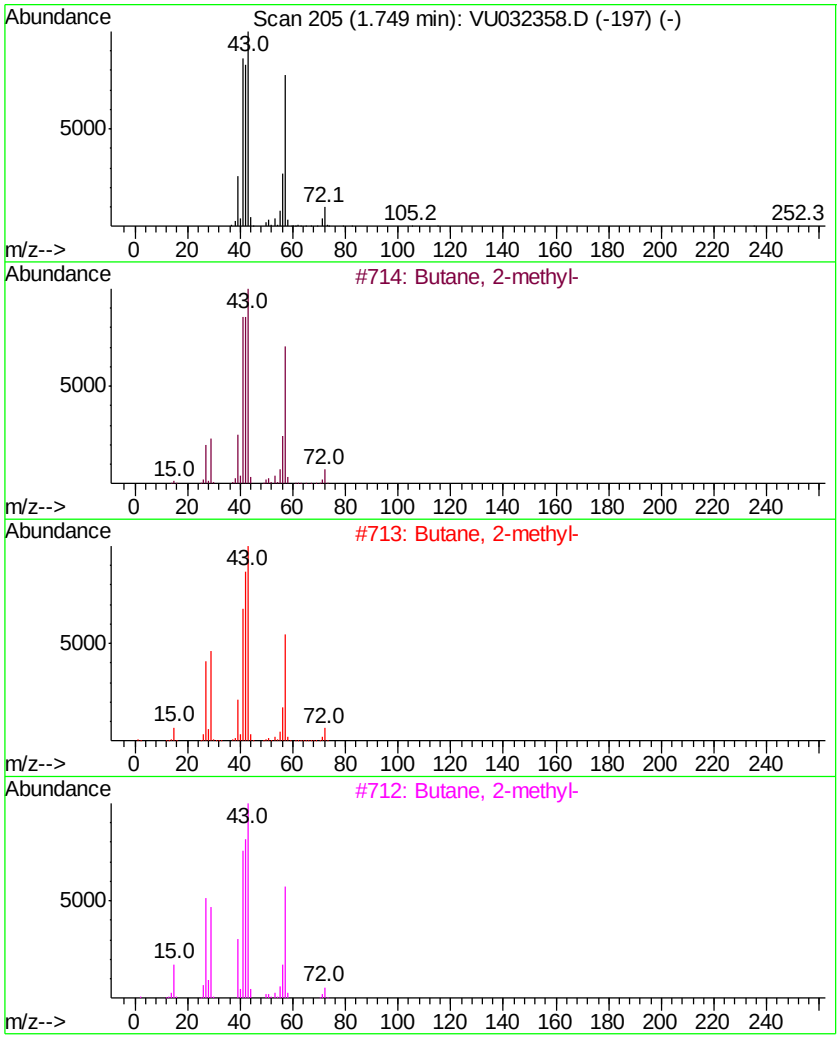
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

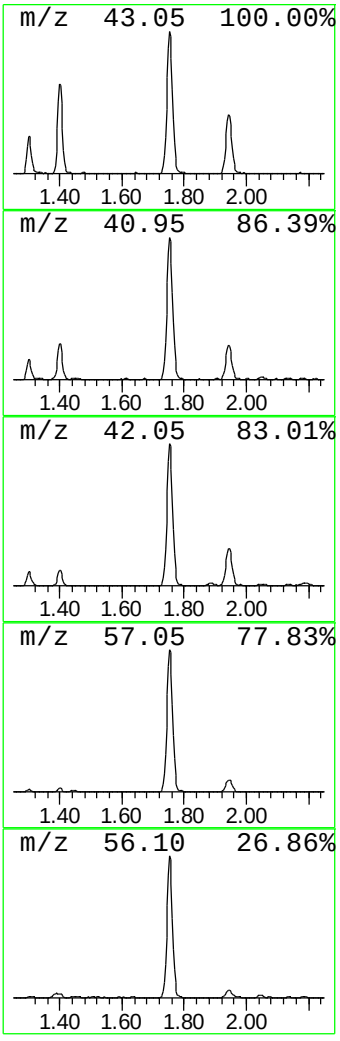
****

Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.75	2.35 ug/L	448131	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	94
2	Butane, 2-methyl-	72	C5H12	000078-78-4	91
3	Butane, 2-methyl-	72	C5H12	000078-78-4	86
4	Pentane	72	C5H12	000109-66-0	42
5	Pentane	72	C5H12	000109-66-0	38





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032358.D
Acq On : 29 May 2019 14:05
Operator : JC/SP
Sample : K3045-11 20X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

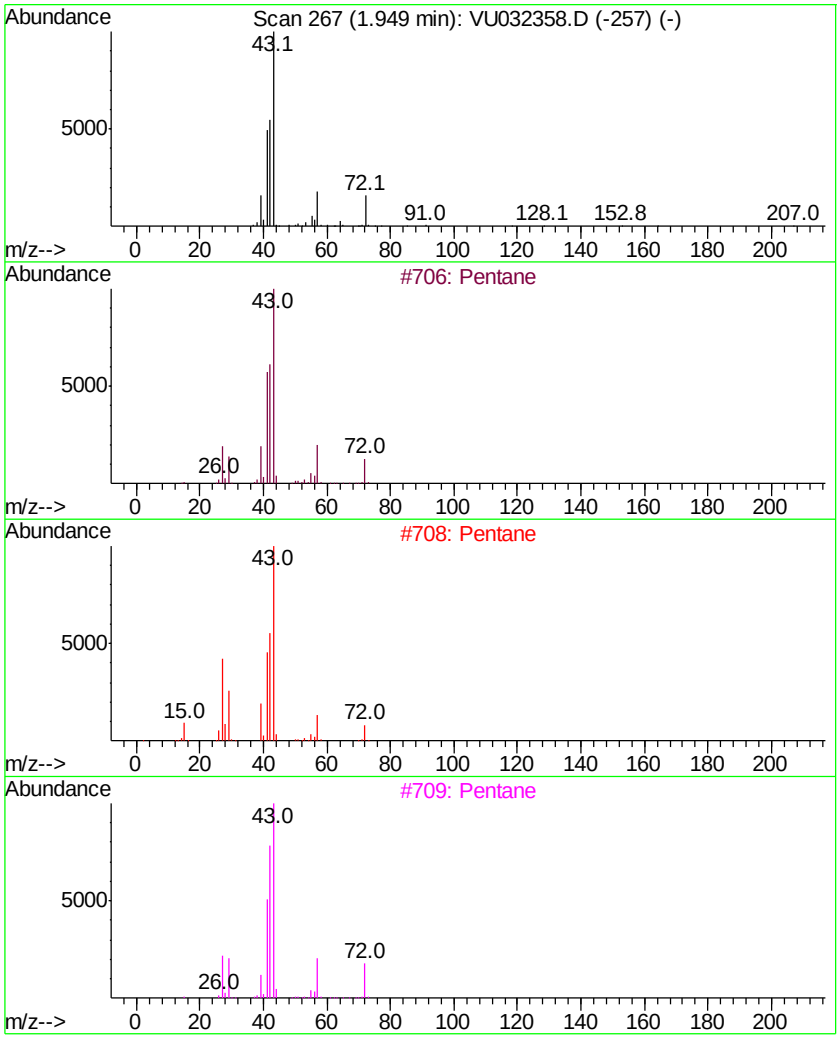
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

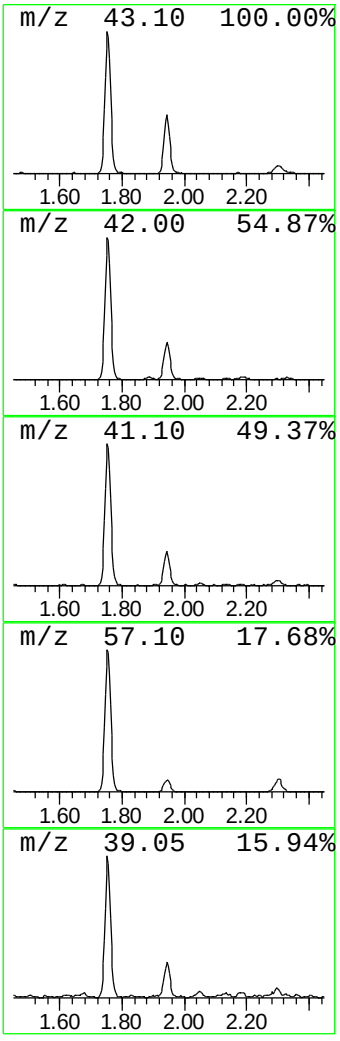
****

Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.95	0.61 ug/L	117180	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane	72	C5H12	000109-66-0	91
2	Pentane	72	C5H12	000109-66-0	86
3	Pentane	72	C5H12	000109-66-0	86
4	Pentane	72	C5H12	000109-66-0	80
5	Oxirane, ethyl-	72	C4H8O	000106-88-7	53





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032358.D
Acq On : 29 May 2019 14:05
Operator : JC/SP
Sample : K3045-11 20X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

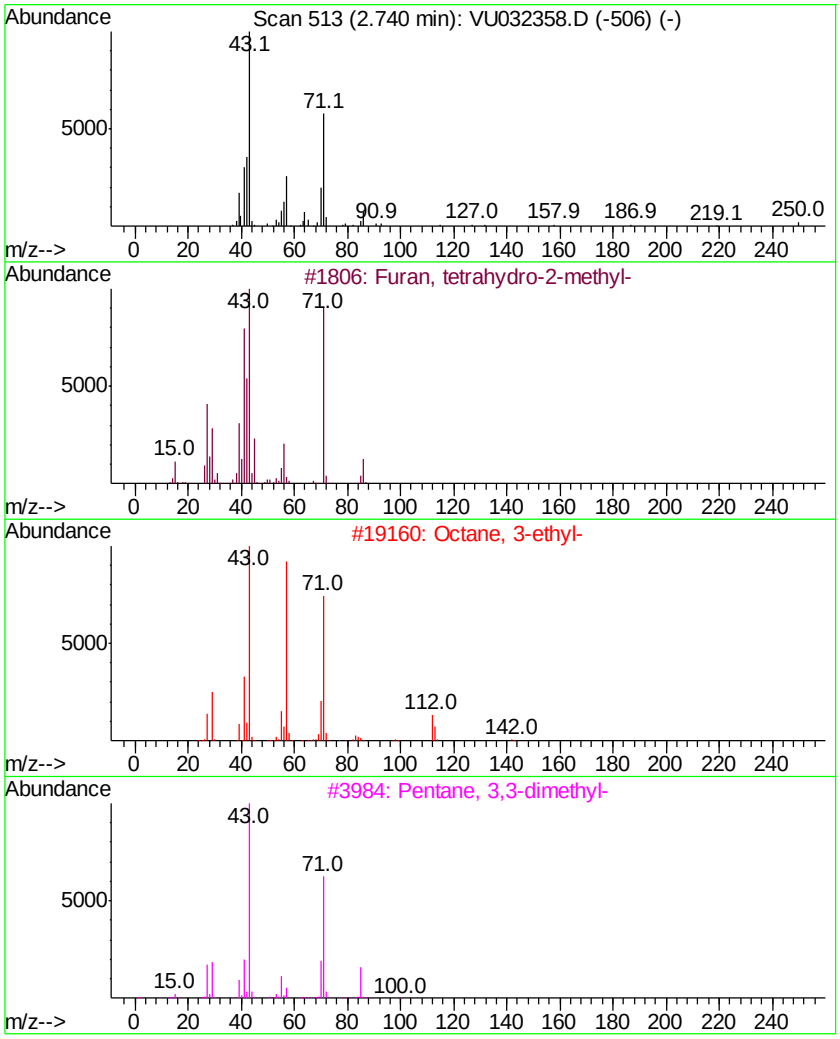
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

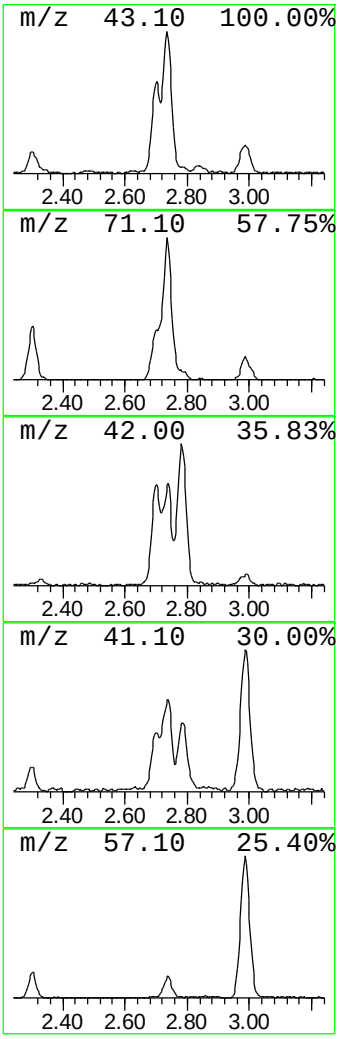
****

Peak Number 3 Furan, tetrahydro-2-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.74	0.81 ug/L	153775	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Furan, tetrahydro-2-methyl-	86	C5H10O	000096-47-9	58
2	Octane, 3-ethyl-	142	C10H22	005881-17-4	45
3	Pentane, 3,3-dimethyl-	100	C7H16	000562-49-2	42
4	Pentane, 3,3-dimethyl-	100	C7H16	000562-49-2	42
5	Sulfurous acid, isobutyl 2-penty...	208	C9H20O3S	1000309-15-2	40





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032358.D
Acq On : 29 May 2019 14:05
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Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

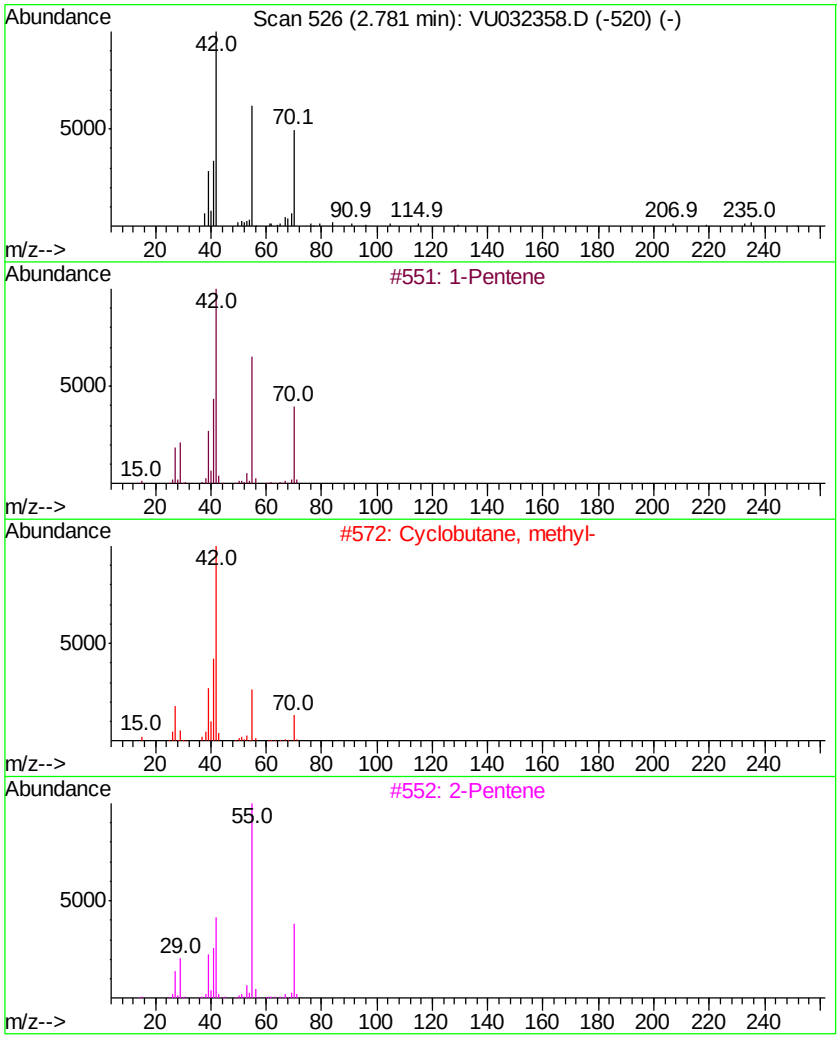
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

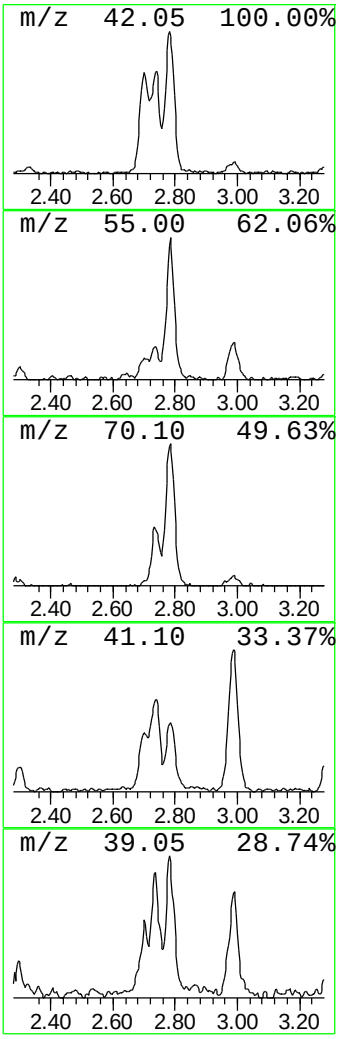
****

Peak Number 4 (DEL) Alkane: Cyclic2.78 Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.78	0.58 ug/L	110648	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Pentene	70	C5H10	000109-67-1	72
2	Cyclobutane, methyl-	70	C5H10	000598-61-8	56
3	2-Pentene	70	C5H10	000109-68-2	50
4	2-Pentene	70	C5H10	000109-68-2	38
5	2-Pentene, (Z)-	70	C5H10	000627-20-3	37





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032358.D
Acq On : 29 May 2019 14:05
Operator : JC/SP
Sample : K3045-11 20X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C55

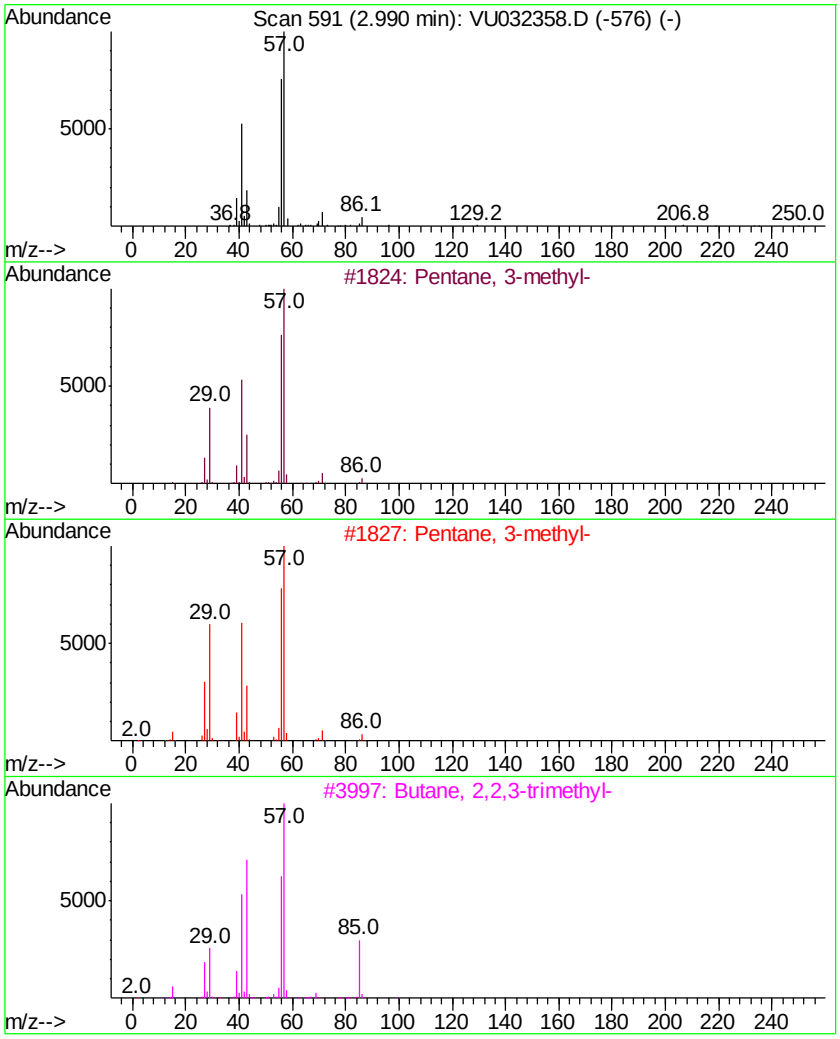
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

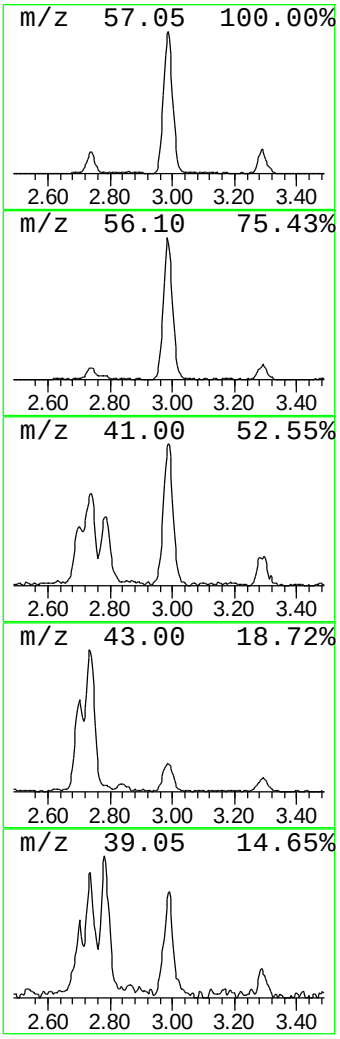
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.99	0.98 ug/L	187184	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	86
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	64
3	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64
4	Nonane, 2,2,3-trimethyl-	170	C12H26	055499-04-2	64
5	Pentane, 3-methyl-	86	C6H14	000096-14-0	50





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032358.D
Acq On : 29 May 2019 14:05
Operator : JC/SP
Sample : K3045-11 20X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

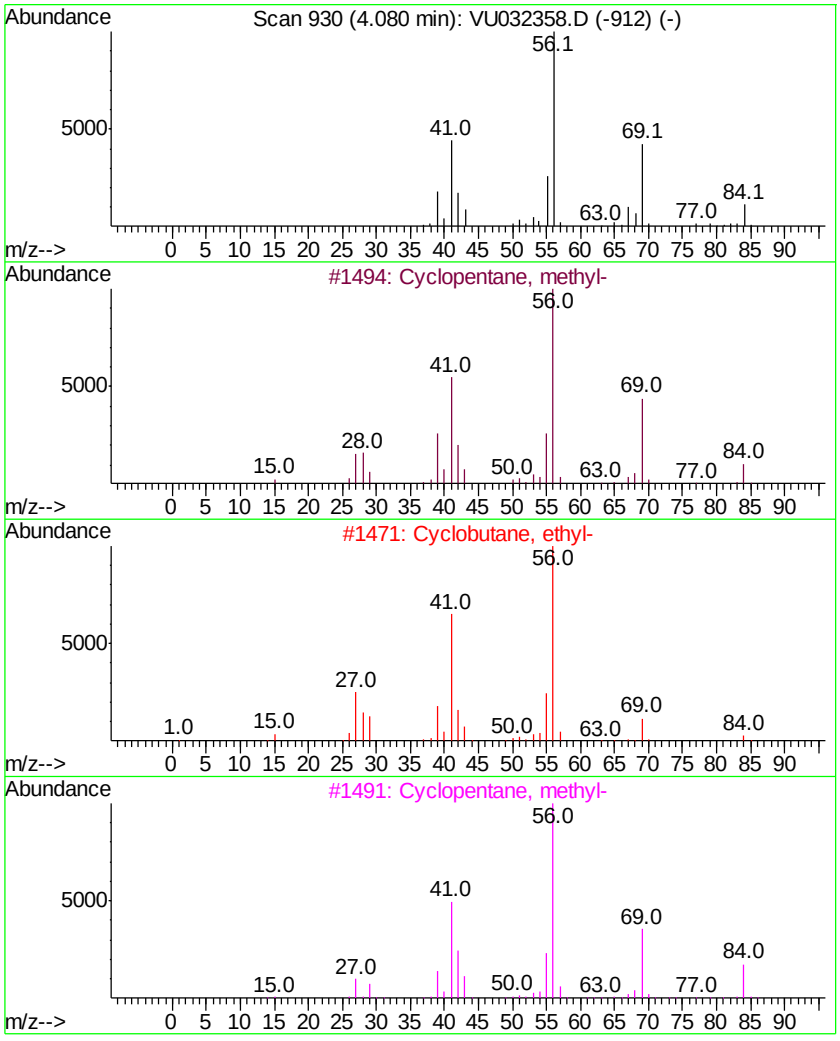
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

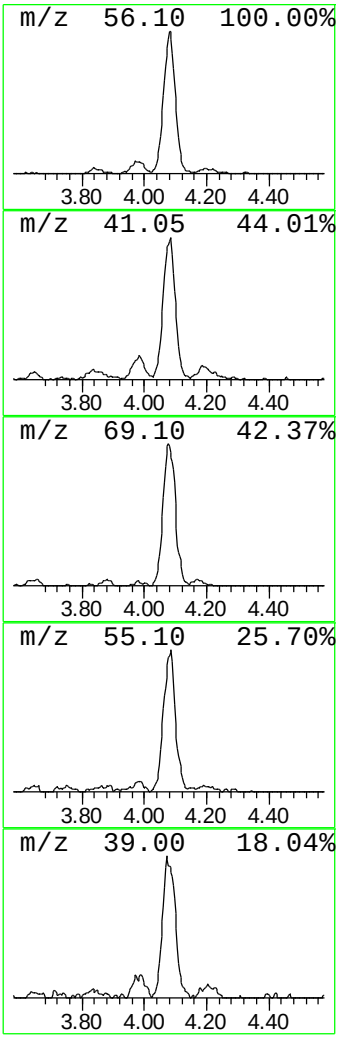
****

Peak Number 6 (DEL) Alkane: Cyclic4.08 Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.08	1.45 ug/L	276729	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	87
2	Cyclobutane, ethyl-	84	C6H12	004806-61-5	72
3	Cyclopentane, methyl-	84	C6H12	000096-37-7	72
4	Heptane, 4-methylene-	112	C8H16	015918-08-8	56
5	1H-Tetrazole, 5-methyl-	84	C2H4N4	004076-36-2	53





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Data File : VU032358.D
Acq On : 29 May 2019 14:05
Operator : JC/SP
Sample : K3045-11 20X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

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

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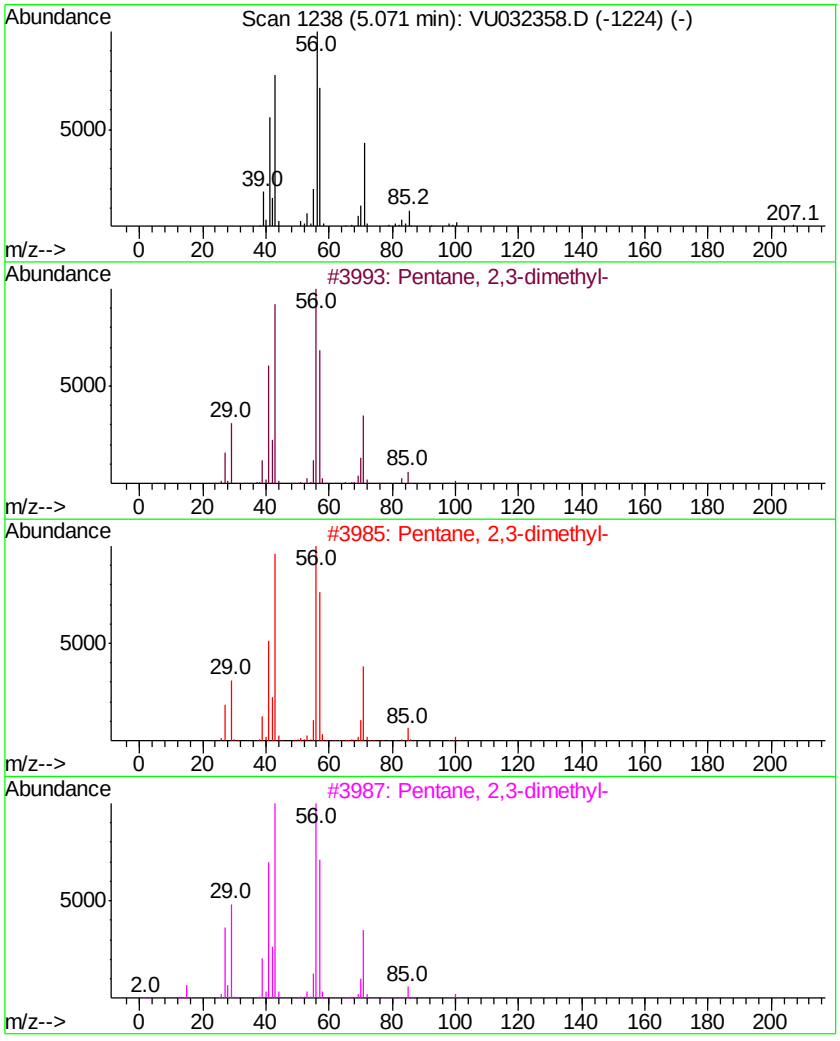
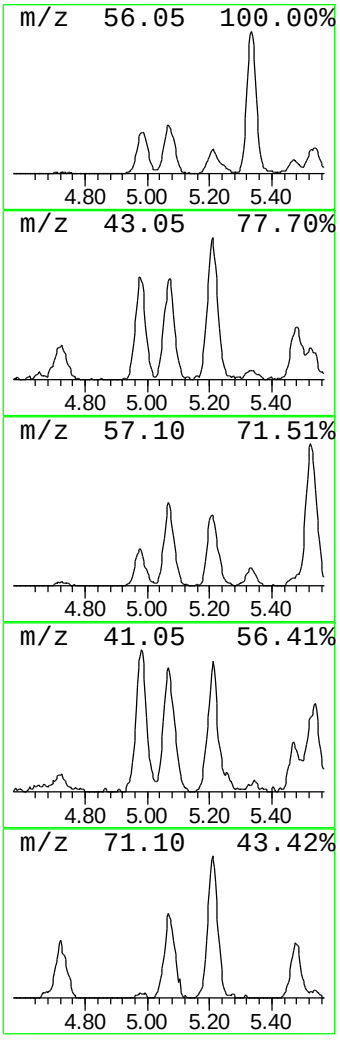
Peak Number 7 (DEL) Alkane: Straight-Chai... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.07	0.76 ug/L	146015	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	80
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	64
4	Ethane, isocyanato-	71	C3H5NO	000109-90-0	59
5	Heptane, 2,2-dimethyl-	128	C9H20	001071-26-7	53





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Data File : VU032358.D
Acq On : 29 May 2019 14:05
Operator : JC/SP
Sample : K3045-11 20X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

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

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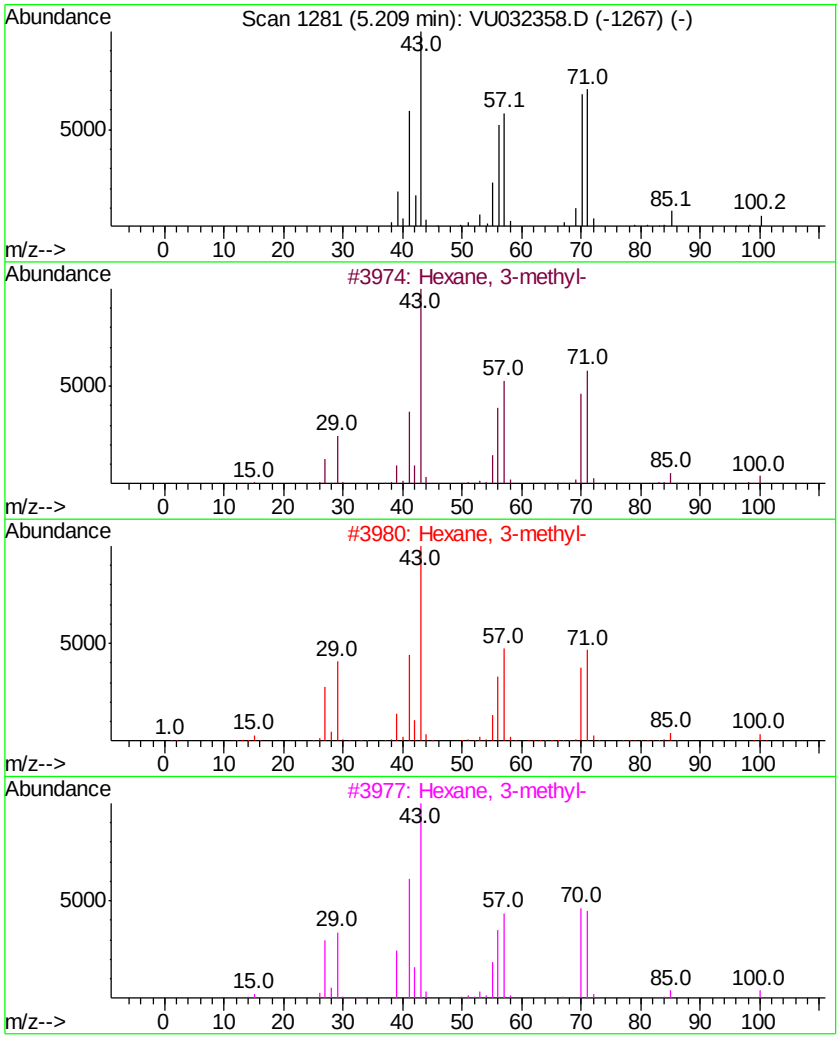
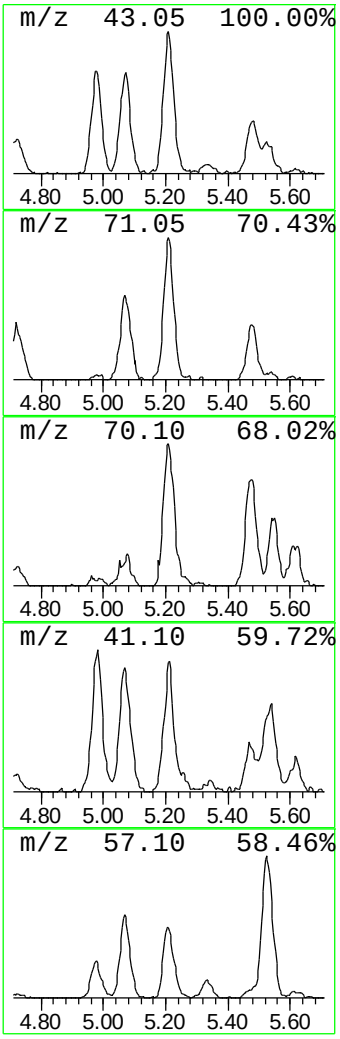
Peak Number 8 (DEL) Alkane: Straight-Chai... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.21	0.89 ug/L	170393	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 3-methyl-	100	C7H16	000589-34-4	91
2	Hexane, 3-methyl-	100	C7H16	000589-34-4	87
3	Hexane, 3-methyl-	100	C7H16	000589-34-4	68
4	Heptane	100	C7H16	000142-82-5	53
5	1-Pentanol, 3,4-dimethyl-	116	C7H16O	006570-87-2	53





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Data File : VU032358.D
Acq On : 29 May 2019 14:05
Operator : JC/SP
Sample : K3045-11 20X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

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

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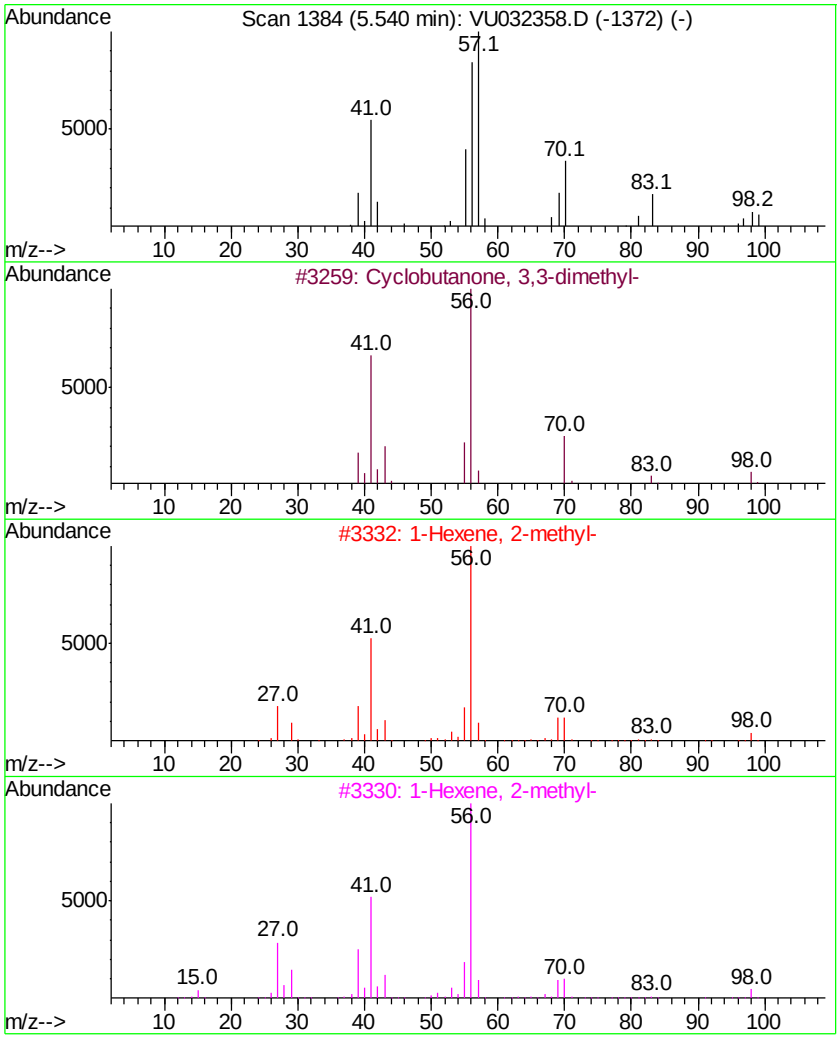
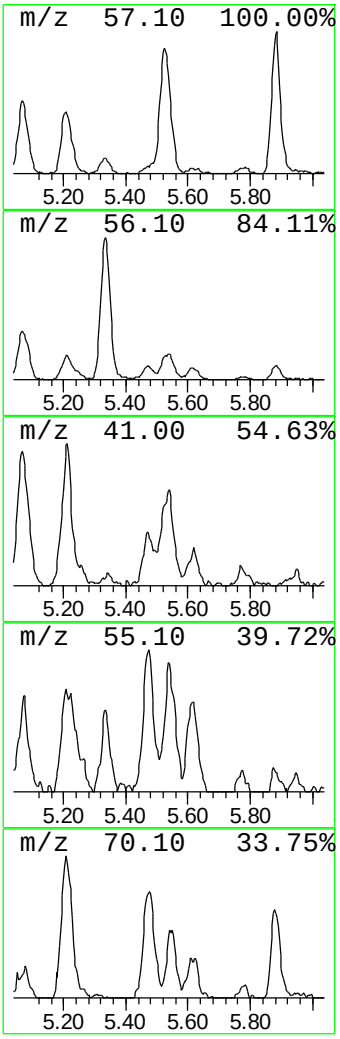
Peak Number 9 unknown-01 Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.54	0.62 ug/L	118591	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclobutanone, 3,3-dimethyl-	98	C6H10O	001192-33-2	47
2	1-Hexene, 2-methyl-	98	C7H14	006094-02-6	43
3	1-Hexene, 2-methyl-	98	C7H14	006094-02-6	43
4	1-Pentanol, 2-ethyl-4-methyl-	130	C8H18O	000106-67-2	40
5	Cyclobutane, 1,2-diethyl-	112	C8H16	061141-83-1	40





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032358.D
Acq On : 29 May 2019 14:05
Operator : JC/SP
Sample : K3045-11 20X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

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

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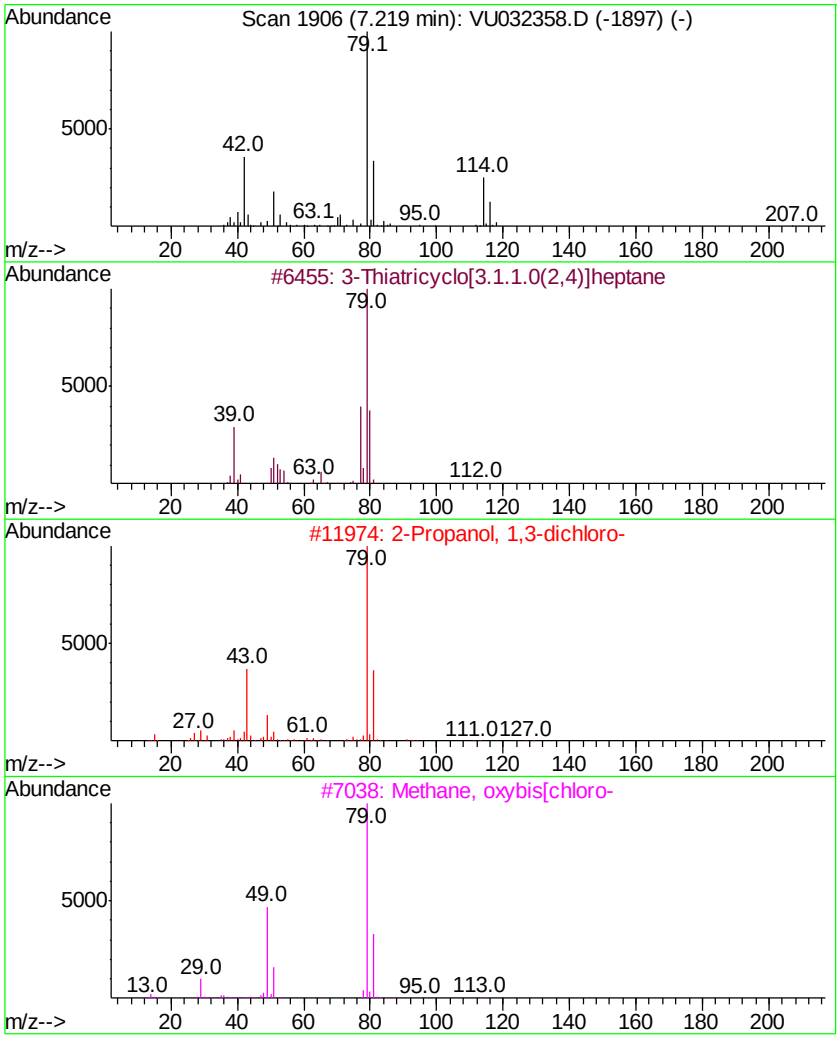
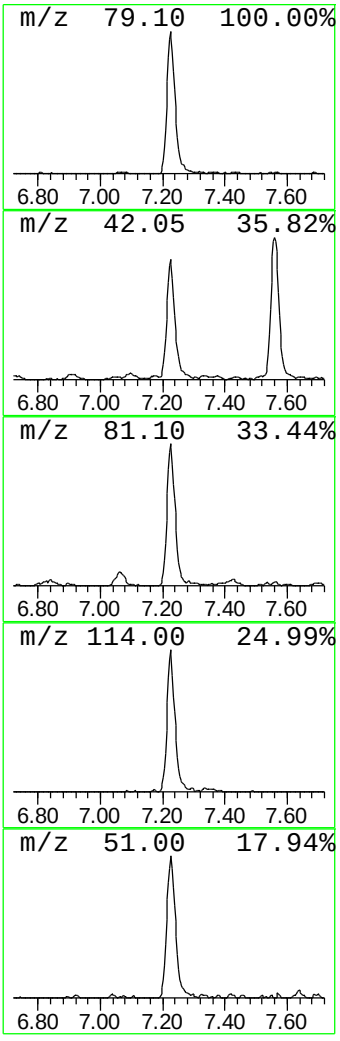
Peak Number 10 unknown-02 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.22	1.57 ug/L	299972	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Thiatricyclo[3.1.1.0(2,4)]heptane	112	C6H8S	1000221-37-0	38
2	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	28
3	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	28
4	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	28
5	Thiophosgene	114	CCl2S	000463-71-8	9





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032358.D
Acq On : 29 May 2019 14:05
Operator : JC/SP
Sample : K3045-11 20X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

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

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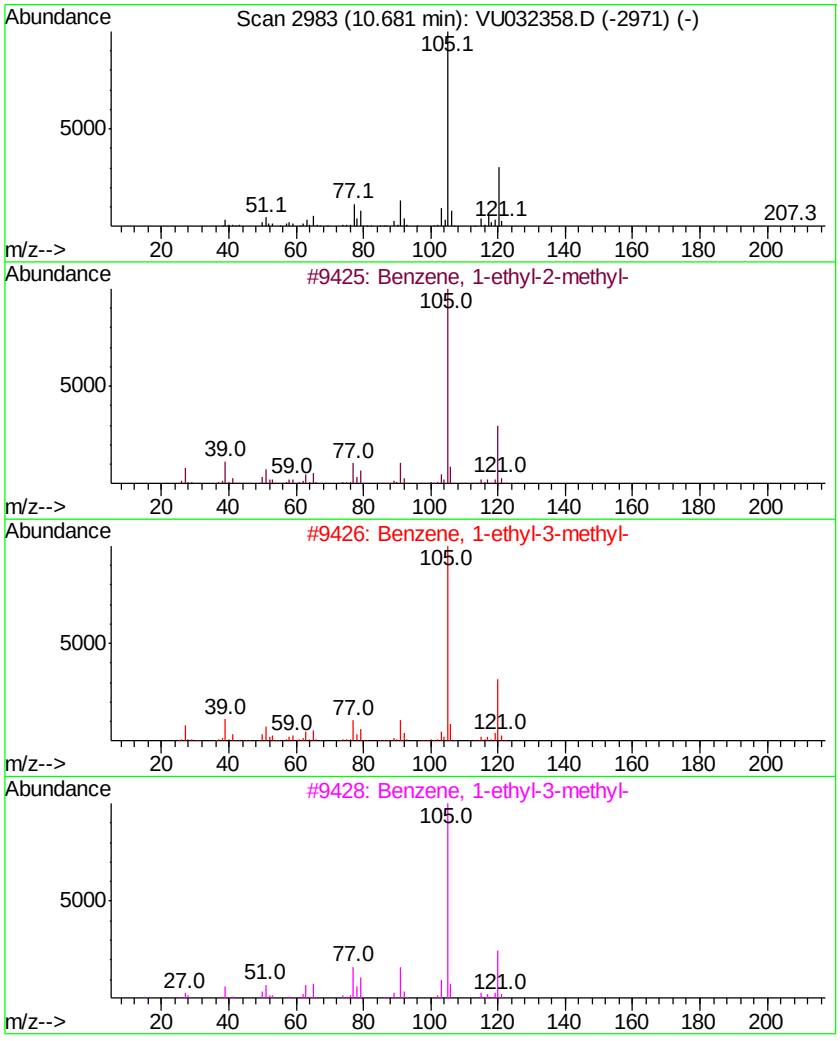
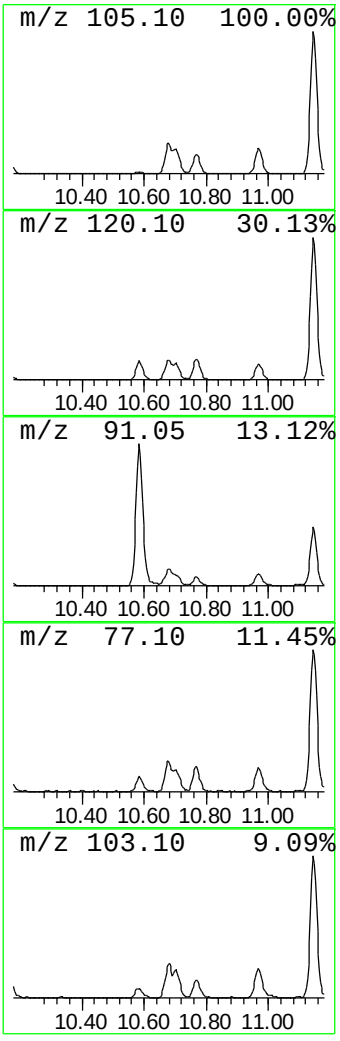
Peak Number 12 Benzene, 1-ethyl-2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.68	1.05 ug/L	236286	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-3-methyl-	120	C9H12	000620-14-4	94
3	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	94
4	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	91
5	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	91





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032358.D
Acq On : 29 May 2019 14:05
Operator : JC/SP
Sample : K3045-11 20X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

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

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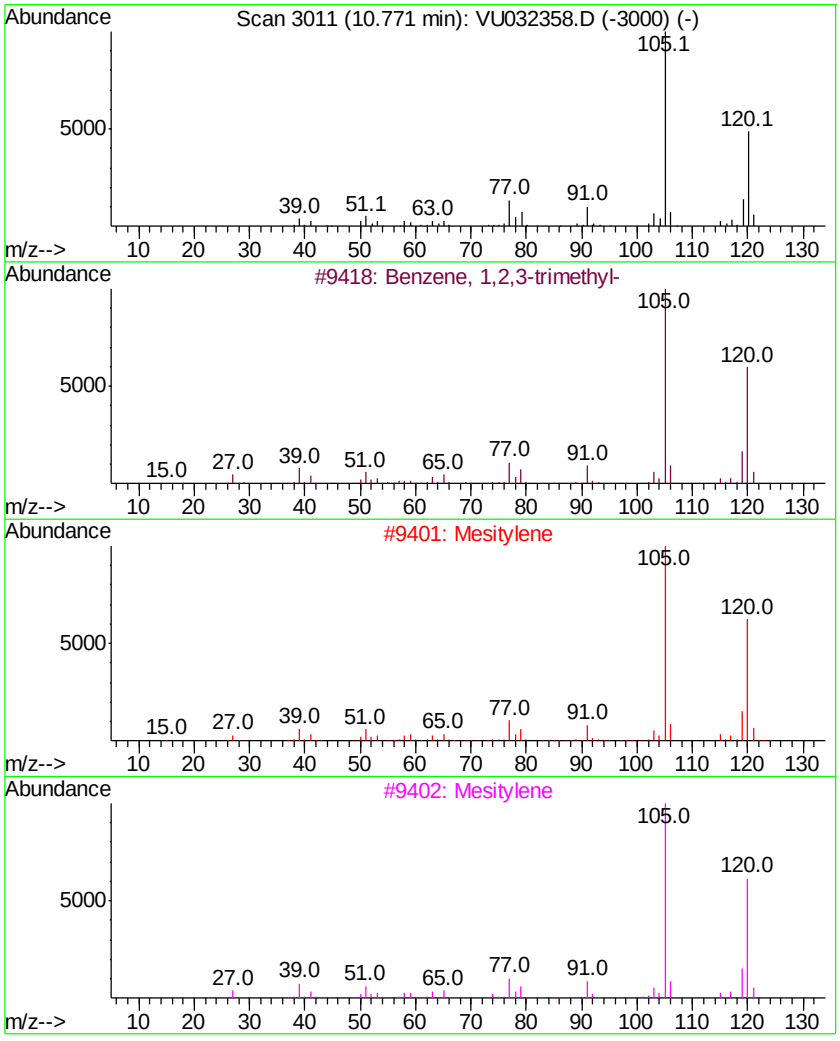
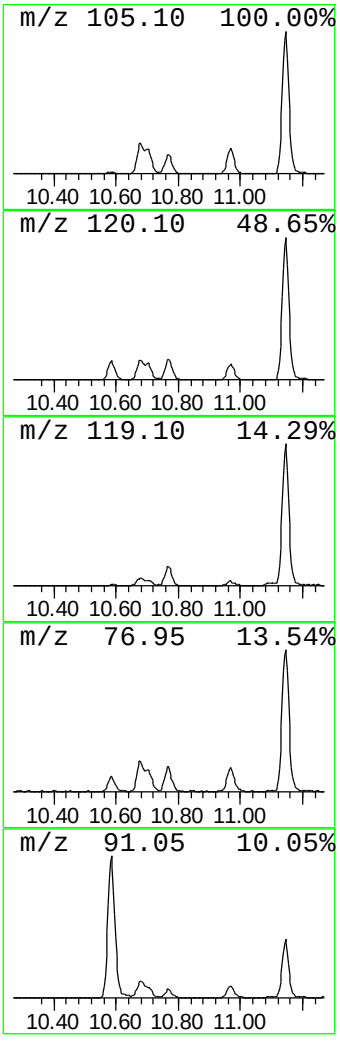
Peak Number 13 Benzene, 1,2,3-trimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.77	0.79 ug/L	178239	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	94
5	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	91





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Data File : VU032358.D
Acq On : 29 May 2019 14:05
Operator : JC/SP
Sample : K3045-11 20X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

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

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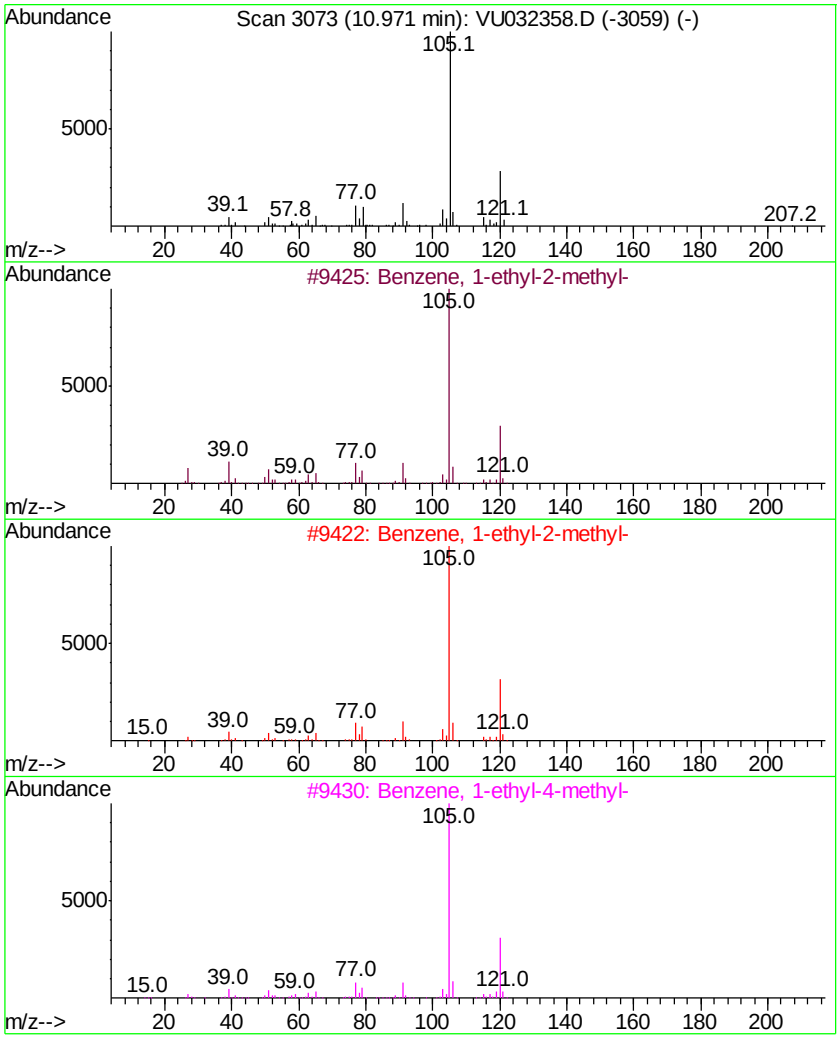
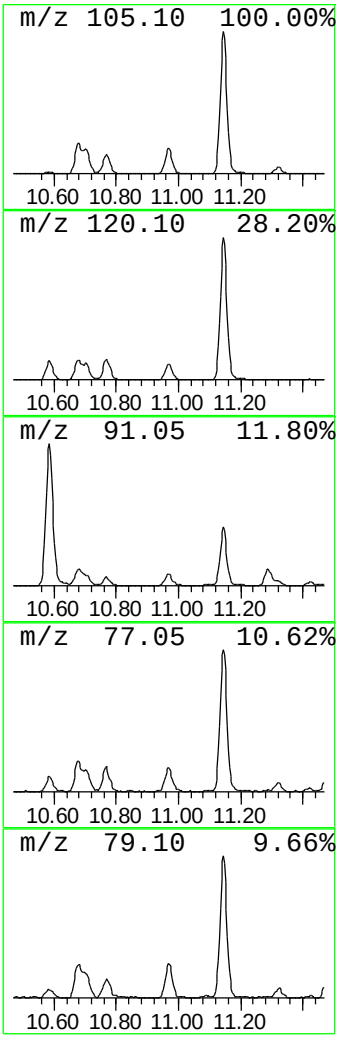
Peak Number 14 Benzene, 1-ethyl-4-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.97	0.98 ug/L	220460	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	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	91
4	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	91
5	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	91





Library Search Compound Report

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Data File : VU032358.D
Acq On : 29 May 2019 14:05
Operator : JC/SP
Sample : K3045-11 20X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

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

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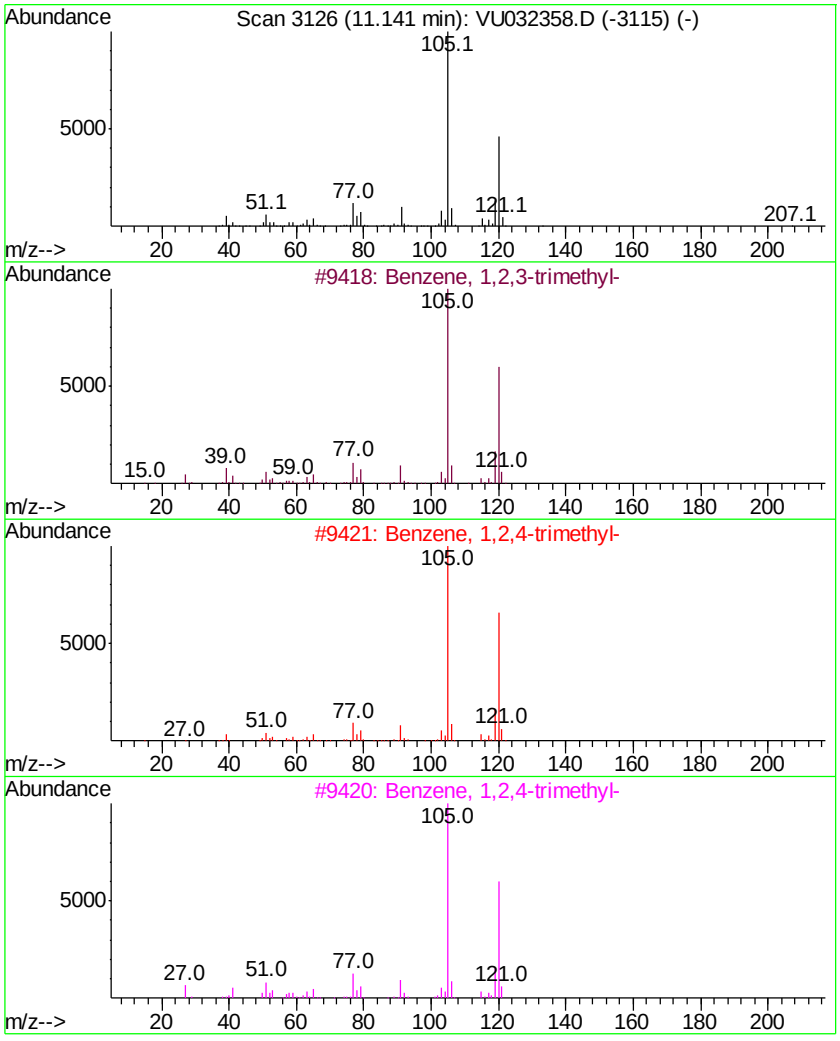
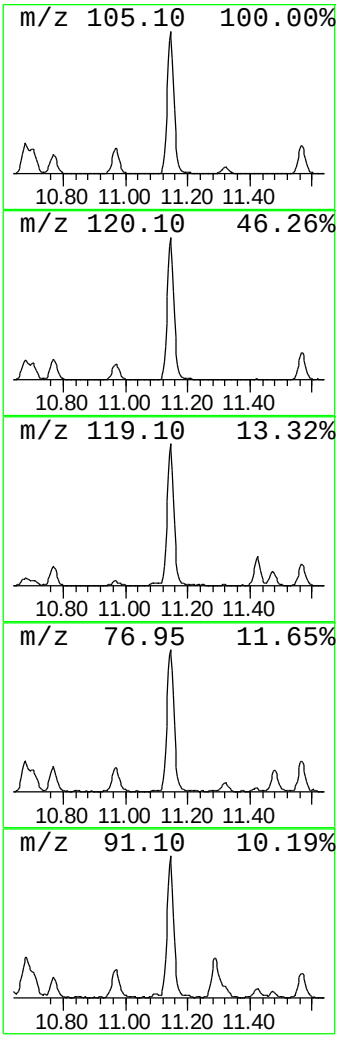
Peak Number 15 Benzene, 1,2,4-trimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.14	5.40 ug/L	1214680	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	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	95
4	Mesitylene	120	C9H12	000108-67-8	94
5	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	93





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Data File : VU032358.D
Acq On : 29 May 2019 14:05
Operator : JC/SP
Sample : K3045-11 20X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

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

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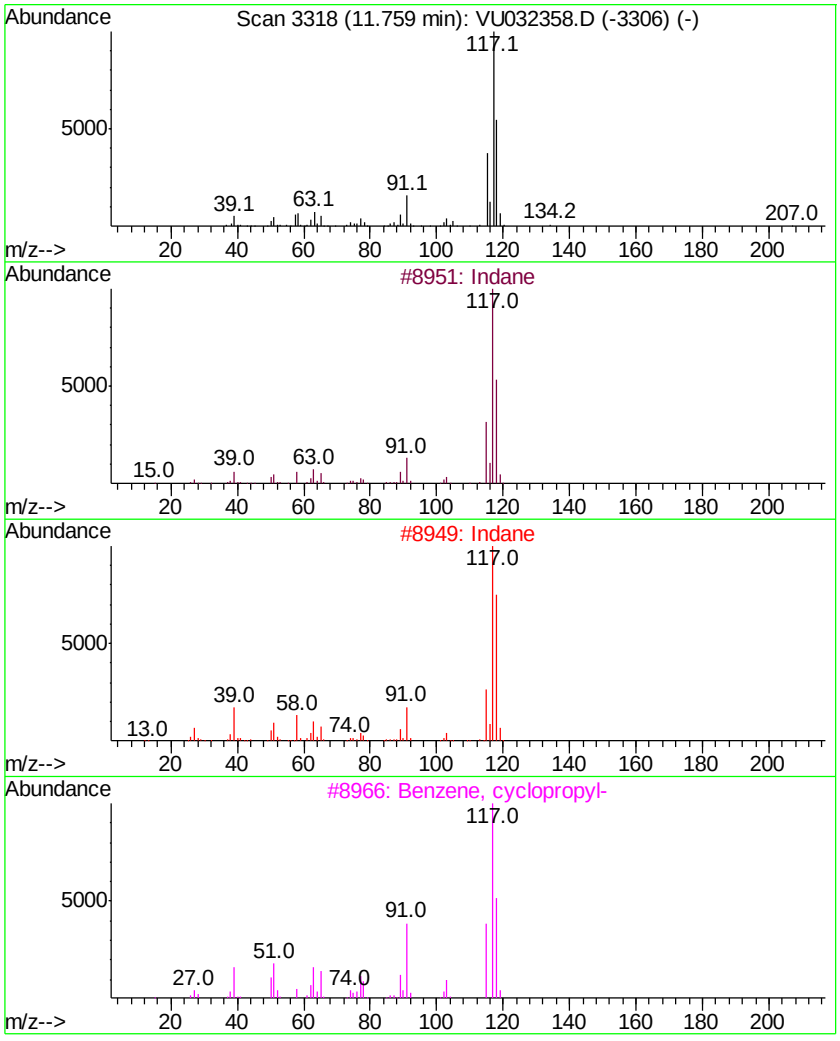
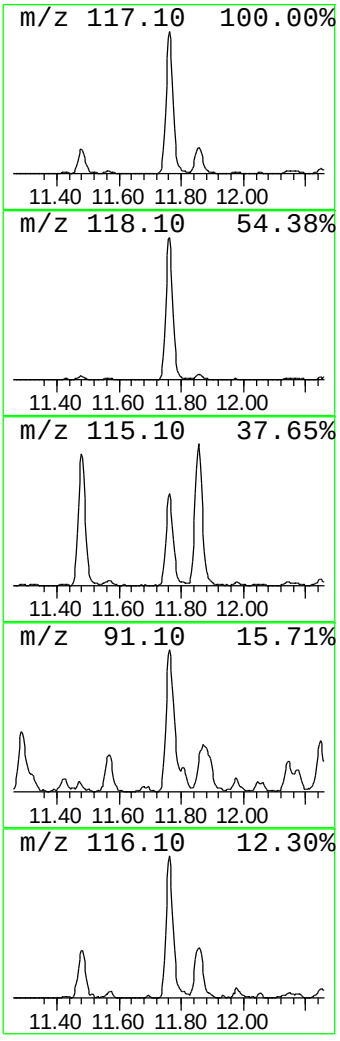
Peak Number 17 Indane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.76	3.41 ug/L	766601	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	91
3	Benzene, cyclopropyl-	118	C9H10	000873-49-4	81
4	Benzene, 2-propenyl-	118	C9H10	000300-57-2	74
5	7-Methylenecycloocta-1,3,5-triene	118	C9H10	002570-13-0	72





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Data File : VU032358.D
Acq On : 29 May 2019 14:05
Operator : JC/SP
Sample : K3045-11 20X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

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

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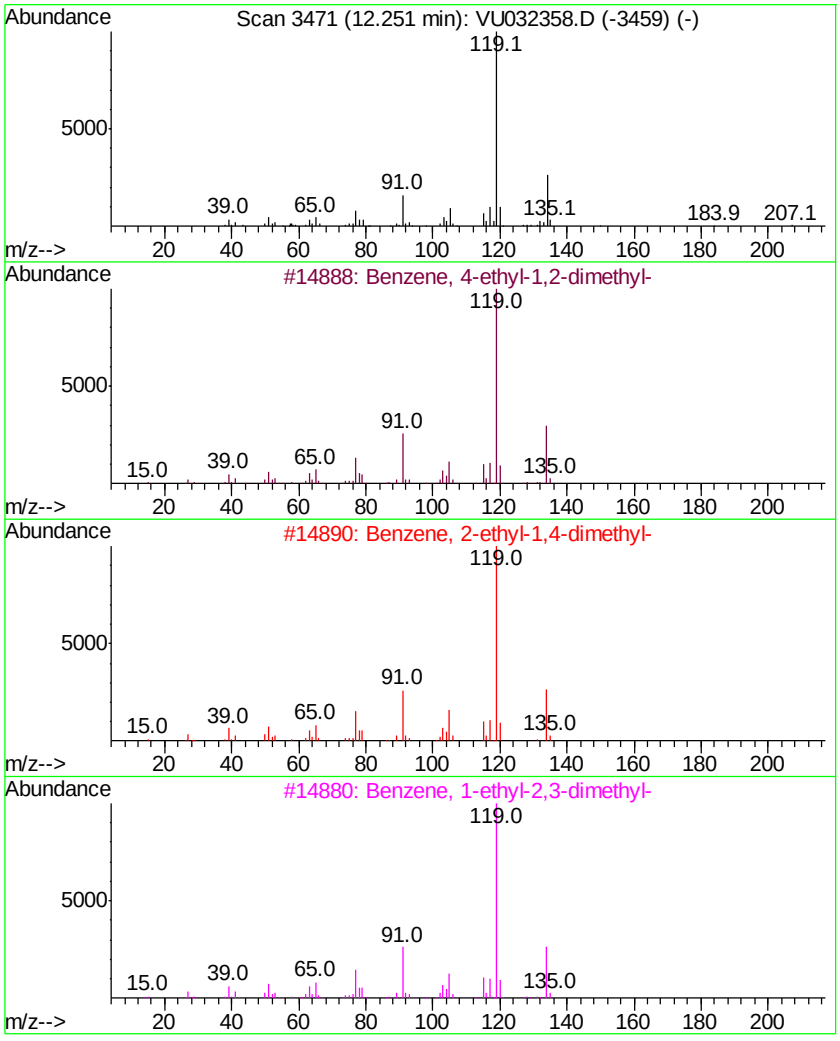
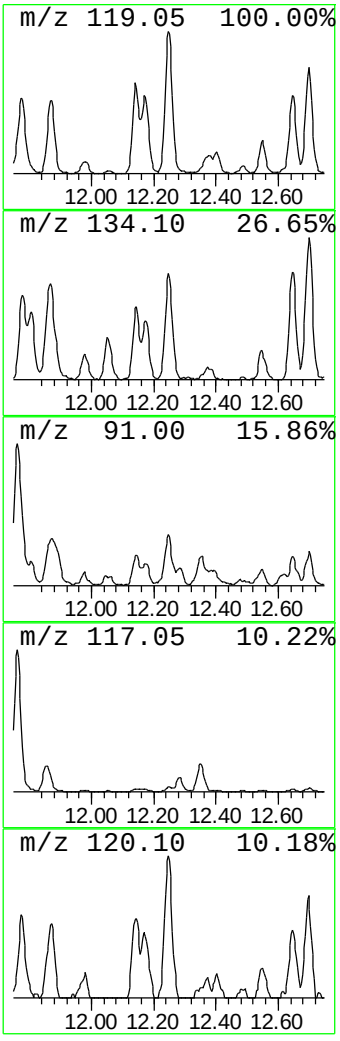
Peak Number 18 Benzene, 4-ethyl-1,2-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.25	0.82 ug/L	184219	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	95
2	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	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	94
5	p-Cymene	134	C10H14	000099-87-6	94





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Data File : VU032358.D
Acq On : 29 May 2019 14:05
Operator : JC/SP
Sample : K3045-11 20X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

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

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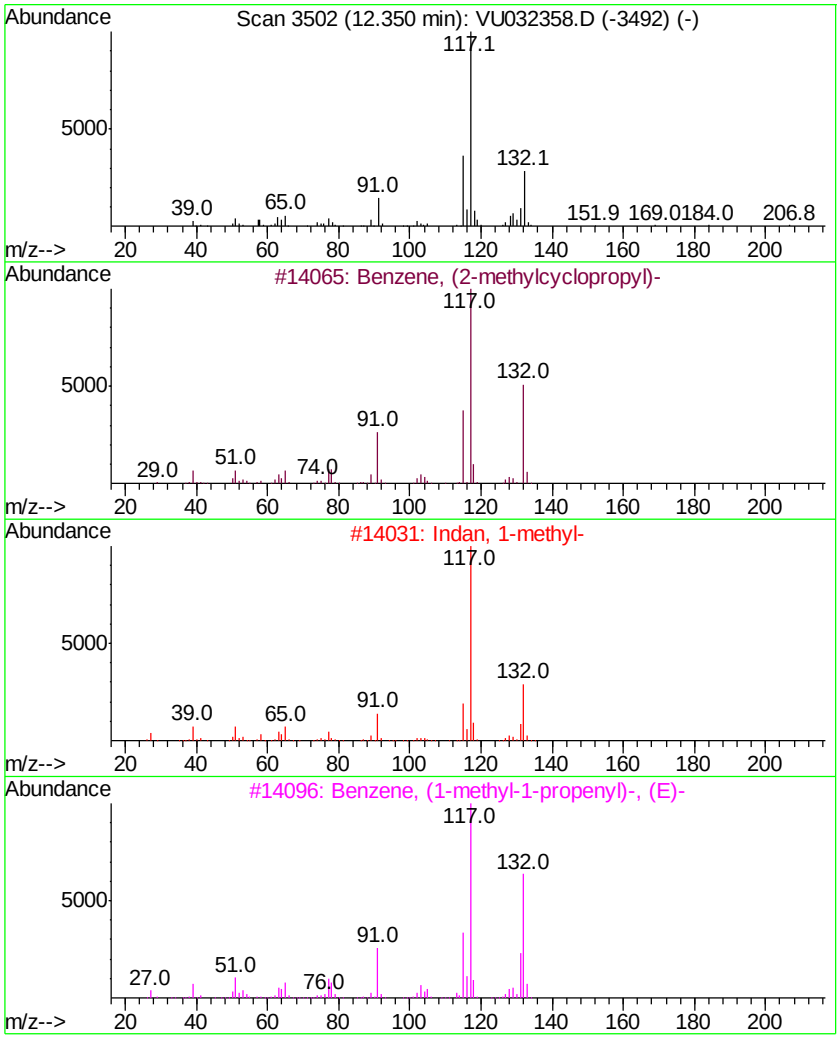
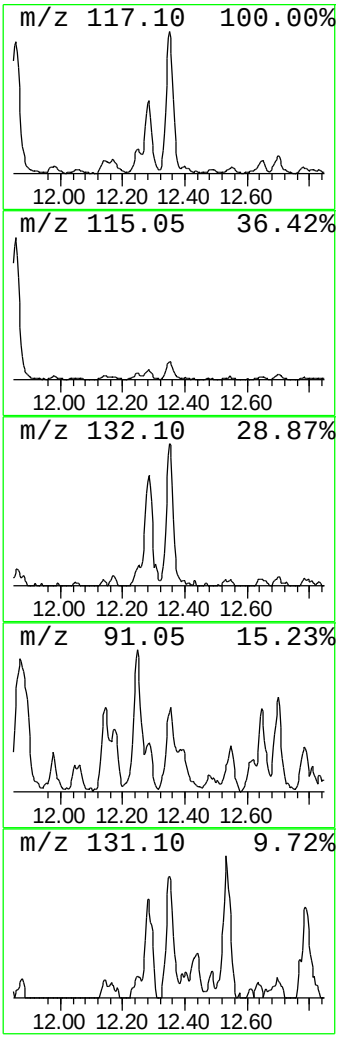
Peak Number 19 Benzene, (2-methylcycloprop... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.35	0.63 ug/L	142838	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (2-methylcyclopropyl)-	132	C10H12	1000327-39-0	81
2	Indan, 1-methyl-	132	C10H12	000767-58-8	81
3	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000768-00-3	80
4	1-Phenyl-1-butene	132	C10H12	000824-90-8	80
5	Indan, 1-methyl-	132	C10H12	000767-58-8	76





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032358.D
Acq On : 29 May 2019 14:05
Operator : JC/SP
Sample : K3045-11 20X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

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

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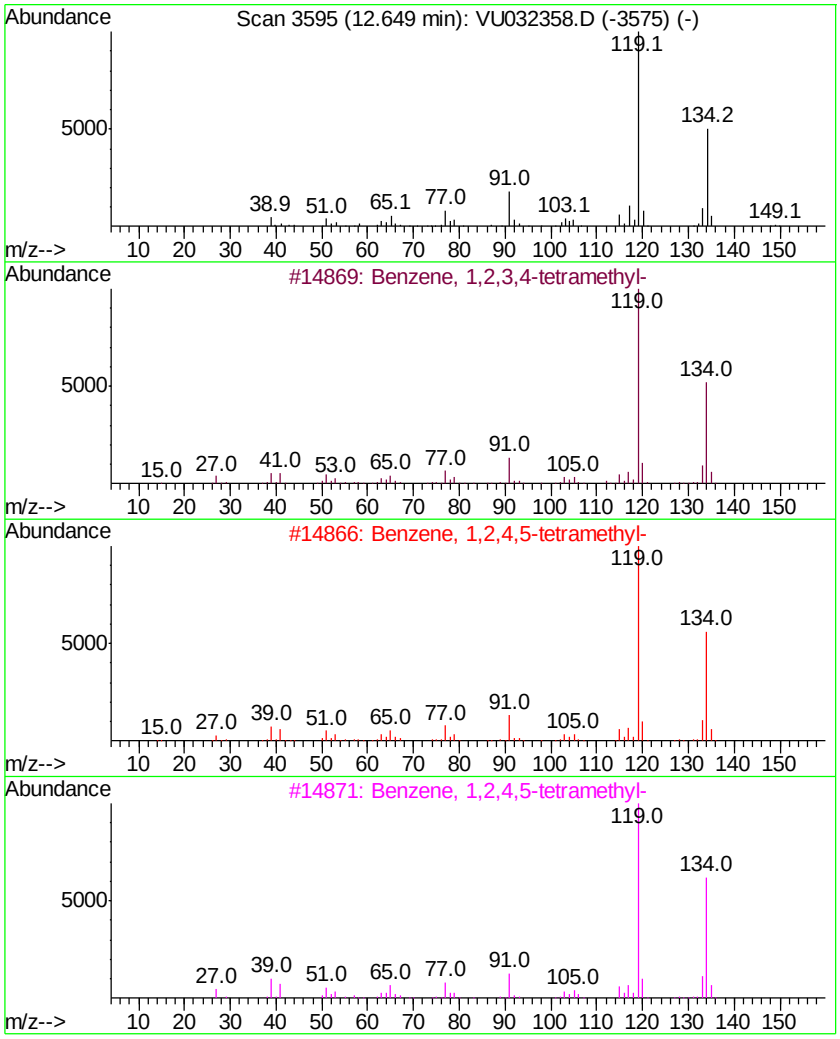
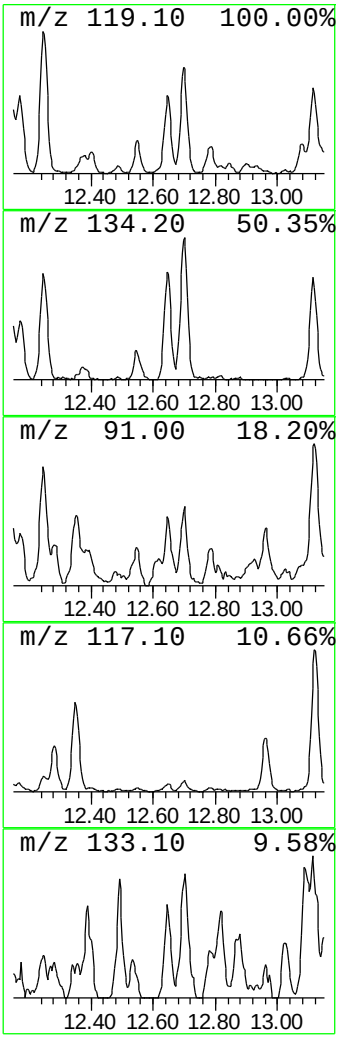
Peak Number 20 Benzene, 1,2,3,4-tetramethyl- Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.65	0.58 ug/L	129760	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	95
2	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	95
3	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	94
4	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	94
5	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	94





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032358.D
Acq On : 29 May 2019 14:05
Operator : JC/SP
Sample : K3045-11 20X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

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

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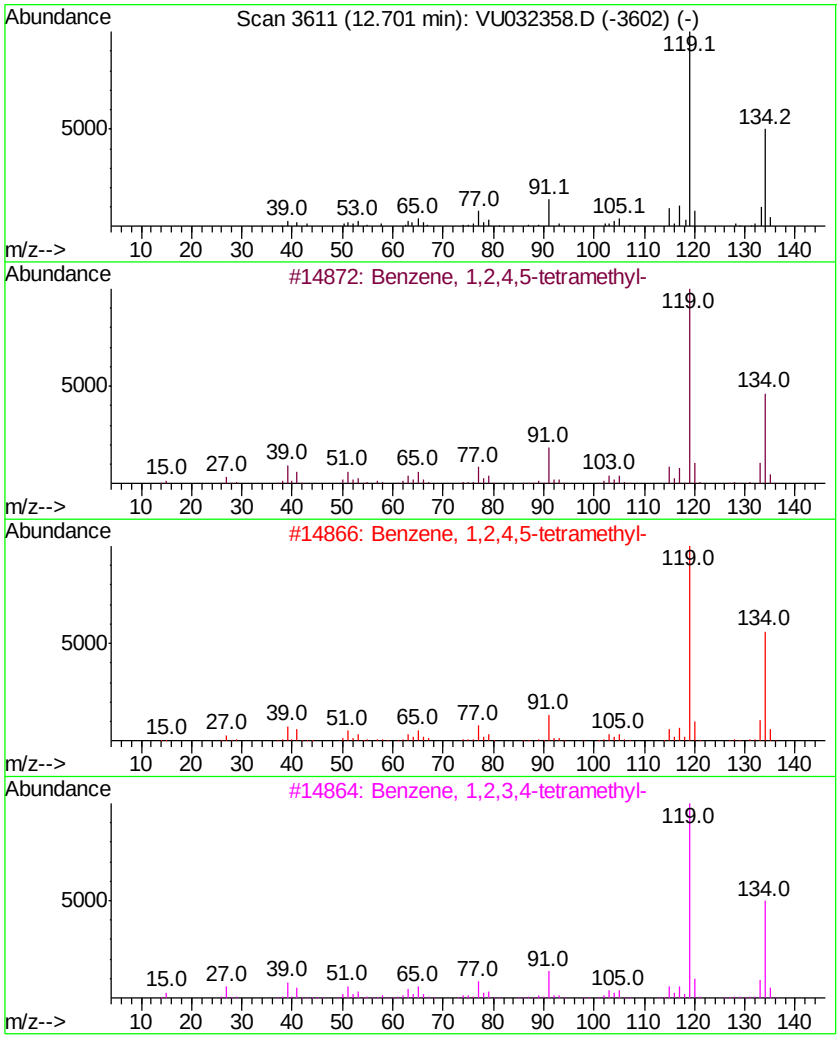
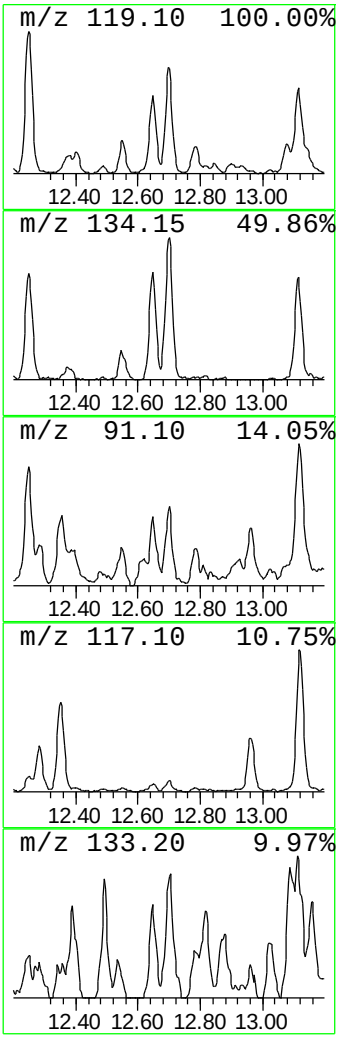
Peak Number 21 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.70	0.64 ug/L	144300	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	95
2	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	94
3	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	94
4	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	93
5	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	91





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032358.D
Acq On : 29 May 2019 14:05
Operator : JC/SP
Sample : K3045-11 20X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

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

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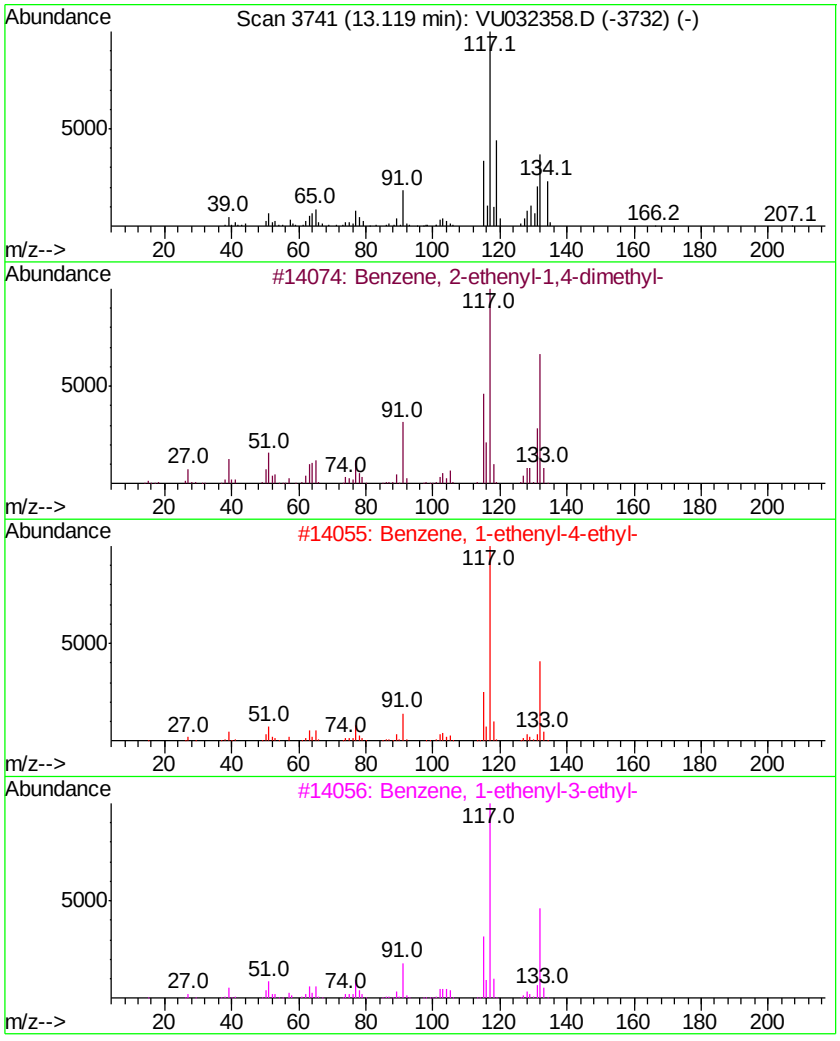
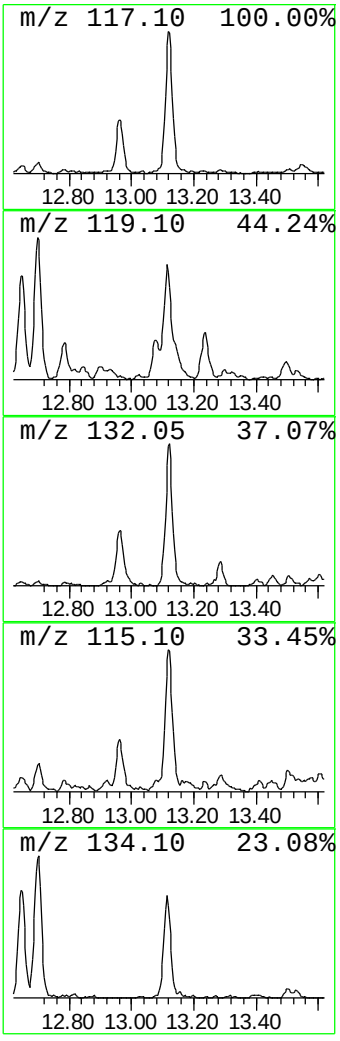
Peak Number 22 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.12	1.40 ug/L	314955	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	89
2	Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	60
3	Benzene, 1-ethenyl-3-ethyl-	132	C10H12	007525-62-4	60
4	1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	58
5	3-Phenylbut-1-ene	132	C10H12	000934-10-1	58





Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032358.D
Acq On : 29 May 2019 14:05
Operator : JC/SP
Sample : K3045-11 20X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C55

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
(DEL) Alkane: Str...	1.75	2.4	ug/L	448131	1	5.88	954909	5.0
(DEL) Alkane: Str...	1.95	0.6	ug/L	117180	1	5.88	954909	5.0
Furan, tetrahydro...	2.74	0.8	ug/L	153775	1	5.88	954909	5.0
(DEL) Alkane: Cyc...	2.78	0.6	ug/L	110648	1	5.88	954909	5.0
(DEL) Alkane: Str...	2.99	1.0	ug/L	187184	1	5.88	954909	5.0
(DEL) Alkane: Cyc...	4.08	1.5	ug/L	276729	1	5.88	954909	5.0
(DEL) Alkane: Str...	5.07	0.8	ug/L	146015	1	5.88	954909	5.0
(DEL) Alkane: Str...	5.21	0.9	ug/L	170393	1	5.88	954909	5.0
unknown-01	5.54	0.6	ug/L	118591	1	5.88	954909	5.0
unknown-02	7.22	1.6	ug/L	299972	1	5.88	954909	5.0
Benzene, 1-ethyl-...	10.68	1.1	ug/L	236286	3	11.48	1125160	5.0
Benzene, 1,2,3-tr...	10.77	0.8	ug/L	178239	3	11.48	1125160	5.0
Benzene, 1-ethyl-...	10.97	1.0	ug/L	220460	3	11.48	1125160	5.0
Benzene, 1,2,4-tr...	11.14	5.4	ug/L	1214680	3	11.48	1125160	5.0
Indane	11.76	3.4	ug/L	766601	3	11.48	1125160	5.0
Benzene, 4-ethyl-...	12.25	0.8	ug/L	184219	3	11.48	1125160	5.0
Benzene, (2-methy...	12.35	0.6	ug/L	142838	3	11.48	1125160	5.0
Benzene, 1,2,3,4-...	12.65	0.6	ug/L	129760	3	11.48	1125160	5.0
Benzene, 1,2,4,5-...	12.70	0.6	ug/L	144300	3	11.48	1125160	5.0
Benzene, 2-etheny...	13.12	1.4	ug/L	314955	3	11.48	1125160	5.0