LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU060620\
Data File : VU038625.D
Acq On : 06 Jun 2020 18:25
Operator : SY/MD
Sample : L2910-18
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9D53

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\SOMUTR053120WMA.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	1.369	3	9	22	rBV	230942	233010	10.37%	1.013%
2	1.533	45	60	62	rBV	83251	165290	7.36%	0.719%
3	1.613	80	85	97	rVB2	119549	133154	5.93%	0.579%
4	1.932	177	184	198	rVB	86356	110625	4.92%	0.481%
5	2.015	203	210	227	rVB	103740	151127	6.73%	0.657%
6	2.224	269	275	287	rVB3	30481	48006	2.14%	0.209%
7	2.497	348	360	377	rBV	67440	122898	5.47%	0.534%
8	2.594	378	390	405	rVV	180229	312971	13.93%	1.361%
9	2.713	407	427	446	rVB2	169410	330433	14.71%	1.437%
10	2.829	452	463	466	rBV2	13300	22555	1.00%	0.098%
11	2.899	469	485	490	rBV2	19423	57116	2.54%	0.248%
12	3.169	559	569	588	rVB3	52935	113761	5.06%	0.495%
13	3.263	591	598	615	rVB5	12836	27342	1.22%	0.119%
14	4.012	818	831	846	rVB5	11620	29608	1.32%	0.129%
15	4.214	881	894	907	rBV3	8996	22548	1.00%	0.098%
16	4.475	957	975	989	rBV4	17385	43498	1.94%	0.189%
17	4.604	989	1015	1026	rVV3	139278	531830	23.67%	2.313%
18	4.674	1026	1037	1079	rVV	200638	620690	27.63%	2.699%
19	4.851	1079	1092	1116	rVB3	21705	56744	2.53%	0.247%
20	5.102	1154	1170	1191	rBV	192390	416767	18.55%	1.812%
21	5.423	1249	1270	1287	rBV2	210087	475244	21.16%	2.067%
22	5.761	1353	1375	1381	rBV2	366794	961909	42.82%	4.183%
23	5.809	1381	1390	1414	rVV	1048232	2160781	96.19%	9.397%
24	5.925	1415	1426	1438	rVB2	57954	116443	5.18%	0.506%
25	5.999	1438	1449	1463	rBV3	65956	129008	5.74%	0.561%
26	6.279	1521	1536	1556	rBV	386681	759478	33.81%	3.303%
27	6.722	1657	1674	1688	rBV	236470	460069	20.48%	2.001%
28	6.883	1711	1724	1740	rBV4	41273	83185	3.70%	0.362%
29	7.031	1757	1770	1787	rVB2	17151	33835	1.51%	0.147%
30	7.420	1879	1891	1901	rBV4	16287	30149	1.34%	0.131%
31	7.591	1931	1944	1961	rBV	132516	243200	10.83%	1.058%
32	7.780	1994	2003	2010	rBV4	15637	27225	1.21%	0.118%
33	7.922	2032	2047	2061	rBV	433622	767463	34.16%	3.337%
34	7.989	2062	2068	2078	rVB	22782	38032	1.69%	0.165%

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU060620\
Data File : VU038625.D
Acq On : 06 Jun 2020 18:25
Operator : SY/MD
Sample : L2910-18
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9D53

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\SOMUTR053120WMA.M
Title : TRACE VOA SOM01.0

35	8.124	2100	2110	2122	rBV3	33694	59497	2.65%	0.259%
36	8.201	2122	2134	2150	rVB2	78716	133112	5.93%	0.579%
37	8.394	2184	2194	2201	rBV2	14638	24834	1.11%	0.108%
38	8.655	2259	2275	2305	rBV	829217	1489323	66.30%	6.477%
39	9.346	2480	2490	2505	rBV4	24583	50067	2.23%	0.218%
40	9.436	2505	2518	2547	rVB	561009	981154	43.68%	4.267%
41	9.587	2552	2565	2582	rVV	1389739	2246422	100.00%	9.769%
42	9.674	2582	2592	2596	rVV5	45986	99147	4.41%	0.431%
43	9.713	2597	2604	2623	rVB2	180845	309918	13.80%	1.348%
44	9.883	2640	2657	2670	rVB5	49381	113821	5.07%	0.495%
45	9.963	2670	2682	2692	rBV3	52096	88503	3.94%	0.385%
46	10.028	2692	2702	2709	rVV2	53343	91050	4.05%	0.396%
47	10.070	2710	2715	2721	rVV2	22715	33924	1.51%	0.148%
48	10.115	2721	2729	2748	rVB	92031	154599	6.88%	0.672%
49	10.288	2771	2783	2794	rBV5	62038	117299	5.22%	0.510%
50	10.381	2804	2812	2821	rVB4	31844	50508	2.25%	0.220%
51	10.439	2822	2830	2840	rVV2	34577	57451	2.56%	0.250%
52	10.497	2841	2848	2857	rVB	38066	58078	2.59%	0.253%
53	10.587	2868	2876	2881	rBV3	17511	26176	1.17%	0.114%
54	10.661	2891	2899	2911	rVB5	76115	132896	5.92%	0.578%
55	10.770	2914	2933	2952	rBV	225441	515906	22.97%	2.244%
56	10.861	2952	2961	2969	rBV2	53802	85797	3.82%	0.373%
57	10.915	2969	2978	2984	rBV2	34153	58773	2.62%	0.256%
58	10.986	2994	3000	3009	rVB2	35173	42306	1.88%	0.184%
59	11.079	3021	3029	3043	rVB2	75525	131094	5.84%	0.570%
60	11.211	3061	3070	3078	rBV2	13519	29087	1.29%	0.126%
61	11.304	3080	3099	3104	rBV	198306	356760	15.88%	1.551%
62	11.410	3121	3132	3144	rVB5	122470	257078	11.44%	1.118%
63	11.478	3144	3153	3162	rBV	93948	139707	6.22%	0.608%
64	11.536	3162	3171	3179	rBV3	45526	70904	3.16%	0.308%
65	11.590	3180	3188	3199	rVB6	33477	65324	2.91%	0.284%
66	11.674	3200	3214	3217	rBV8	48561	92010	4.10%	0.400%
67	11.822	3245	3260	3271	rBV	680982	1152374	51.30%	5.011%
68	11.905	3277	3286	3295	rVB	199406	317760	14.15%	1.382%
69	11.957	3296	3302	3314	rVB9	25297	38815	1.73%	0.169%
70	12.105	3316	3348	3359	rBV3	163660	400483	17.83%	1.742%
71	12.204	3360	3379	3388	rBV	507843	890569	39.64%	3.873%

LSC Area Percent Report

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Data File : VU038625.D
Acq On : 06 Jun 2020 18:25
Operator : SY/MD
Sample : L2910-18
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9D53

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\SOMUTR053120WMA.M
Title : TRACE VOA SOM01.0

72	12.323	3408	3416	3428	rBV6	34243	76004	3.38%	0.331%
73	12.385	3430	3435	3442	rVB5	25954	35131	1.56%	0.153%
74	12.430	3443	3449	3455	rBV7	16509	25682	1.14%	0.112%
75	12.471	3455	3462	3468	rBV8	21989	33131	1.47%	0.144%
76	12.542	3476	3484	3492	rBV2	59164	90069	4.01%	0.392%
77	12.587	3493	3498	3505	rVB4	25095	32489	1.45%	0.141%
78	12.664	3516	3522	3524	rVV5	23780	29360	1.31%	0.128%
79	12.693	3527	3531	3549	rVB3	46313	86881	3.87%	0.378%
80	12.899	3587	3595	3604	rVB6	26548	47228	2.10%	0.205%
81	13.002	3618	3627	3635	rBV9	32783	65663	2.92%	0.286%
82	13.423	3748	3758	3765	rBV8	33881	60976	2.71%	0.265%
83	13.475	3766	3774	3787	rVV3	93137	165410	7.36%	0.719%
84	13.542	3790	3795	3806	rVB4	23460	33409	1.49%	0.145%
85	13.648	3817	3828	3844	rBV9	53322	125674	5.59%	0.547%
86	13.815	3871	3880	3890	rBV3	57572	99841	4.44%	0.434%
87	14.114	3962	3973	3992	rVB	85604	156220	6.95%	0.679%
88	14.237	4001	4011	4021	rVB2	64544	102789	4.58%	0.447%
89	14.796	4178	4185	4194	rVB	27401	38820	1.73%	0.169%
90	14.912	4216	4221	4234	rVB8	18945	33825	1.51%	0.147%
91	15.060	4253	4267	4278	rBV8	22801	48288	2.15%	0.210%
92	15.195	4298	4309	4325	rBV3	78356	150109	6.68%	0.653%
93	15.317	4336	4347	4355	rVB9	16057	35244	1.57%	0.153%
94	15.452	4378	4389	4412	rVB5	91387	200384	8.92%	0.871%
95	15.606	4427	4437	4446	rBV5	18251	33277	1.48%	0.145%
96	15.738	4471	4478	4489	rBV5	12362	22585	1.01%	0.098%
97	15.851	4504	4513	4522	rVB6	15598	29196	1.30%	0.127%
98	17.384	4979	4990	5005	rBV2	181901	339237	15.10%	1.475%

Sum of corrected areas: 22995442

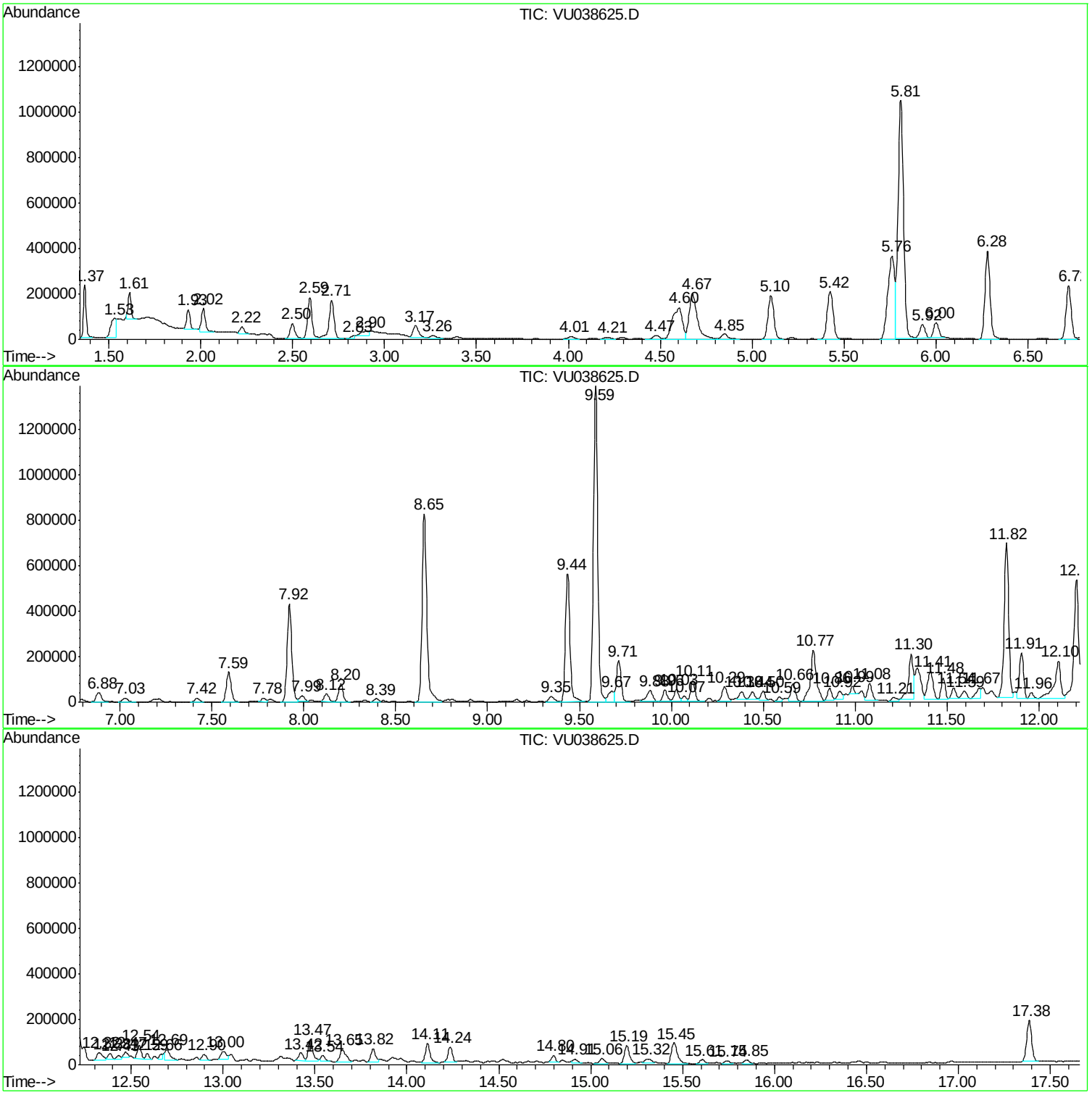
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU060620\
Data File : VU038625.D
Acq On : 06 Jun 2020 18:25
Operator : SY/MD
Sample : L2910-18
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9D53

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR053120WMA.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\VU060620\
Data File : VU038625.D
Acq On : 06 Jun 2020 18:25
Operator : SY/MD
Sample : L2910-18
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9D53

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR053120WMA.M
Quant Title : TRACE VOA SOM01.0

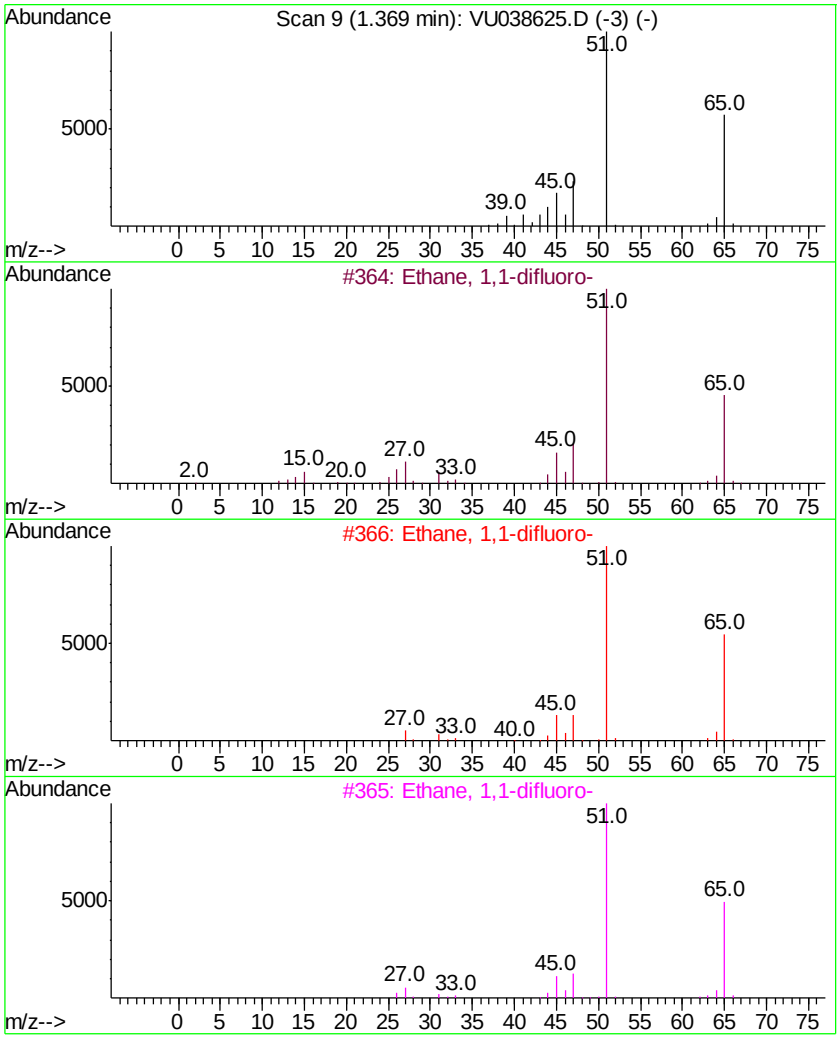
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

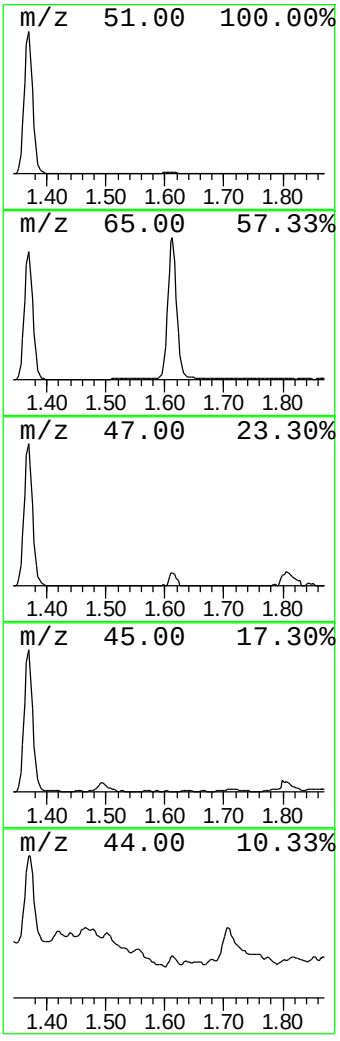
****

Peak Number 1 Ethane, 1,1-difluoro- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.37	1.53 ug/L	233010	1,4-Difluorobenzene	6.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethane, 1,1-difluoro-	66	C2H4F2	000075-37-6	91
2	Ethane, 1,1-difluoro-	66	C2H4F2	000075-37-6	90
3	Ethane, 1,1-difluoro-	66	C2H4F2	000075-37-6	90
4	Propane, 2,2-difluoro-	80	C3H6F2	000420-45-1	4
5	Propiolonitrile	51	C3HN	001070-71-9	3





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU060620\
Data File : VU038625.D
Acq On : 06 Jun 2020 18:25
Operator : SY/MD
Sample : L2910-18
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9D53

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR053120WMA.M
Quant Title : TRACE VOA SOM01.0

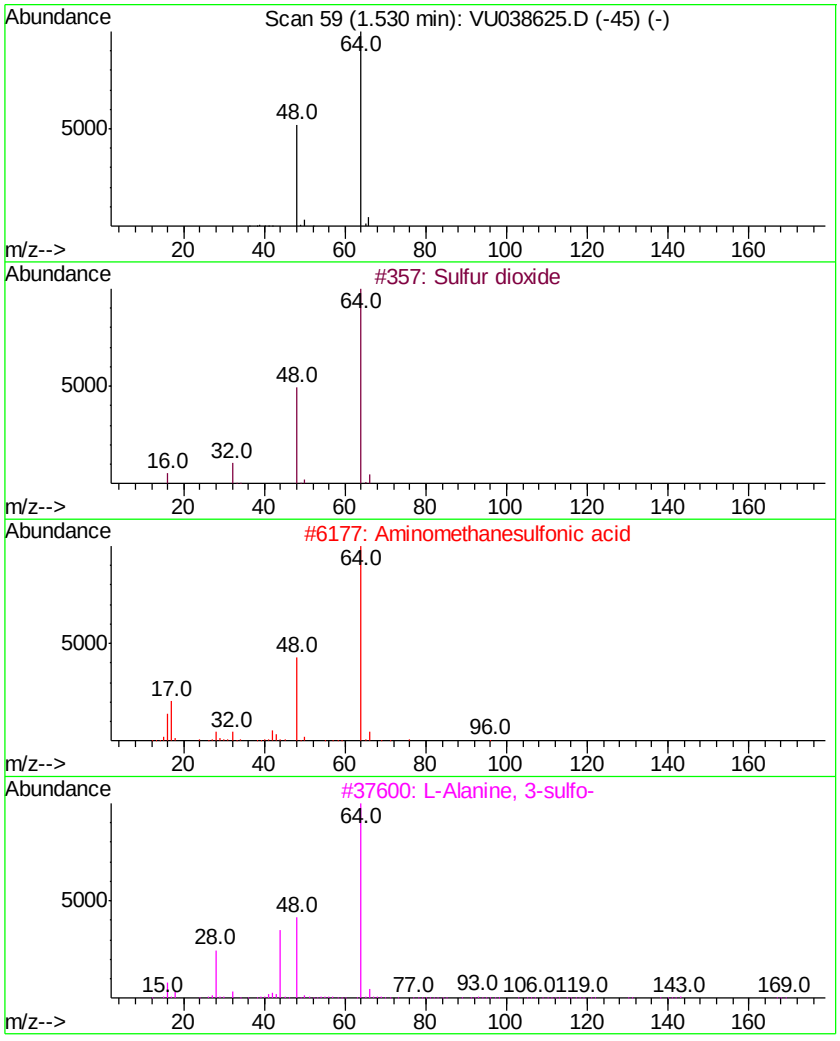
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

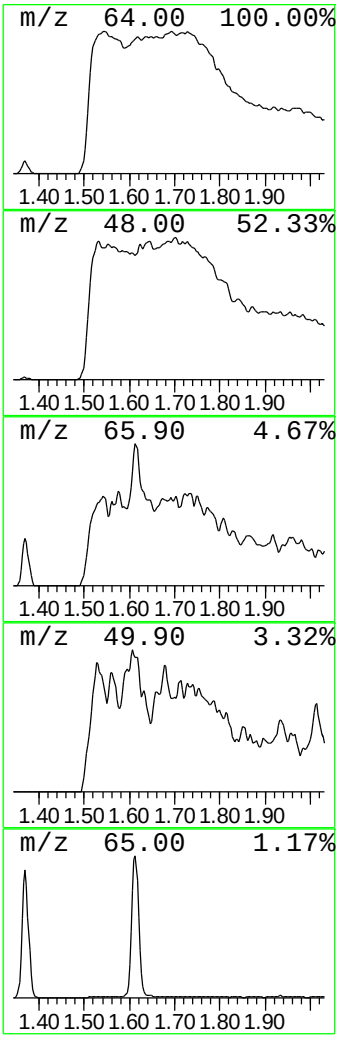
****

Peak Number 2 Sulfur dioxide Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.53	1.09 ug/L	165290	1,4-Difluorobenzene	6.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Sulfur dioxide	64	O2S	007446-09-5	83
2	Aminomethanesulfonic acid	111	CH5NO3S	013881-91-9	74
3	L-Alanine, 3-sulfo-	169	C3H7NO5S	000498-40-8	9
4	Aminomethanesulfonic acid	111	CH5NO3S	013881-91-9	9
5	Aminomethanesulfonic acid	111	CH5NO3S	013881-91-9	9





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU060620\
Data File : VU038625.D
Acq On : 06 Jun 2020 18:25
Operator : SY/MD
Sample : L2910-18
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9D53

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR053120WMA.M
Quant Title : TRACE VOA SOM01.0

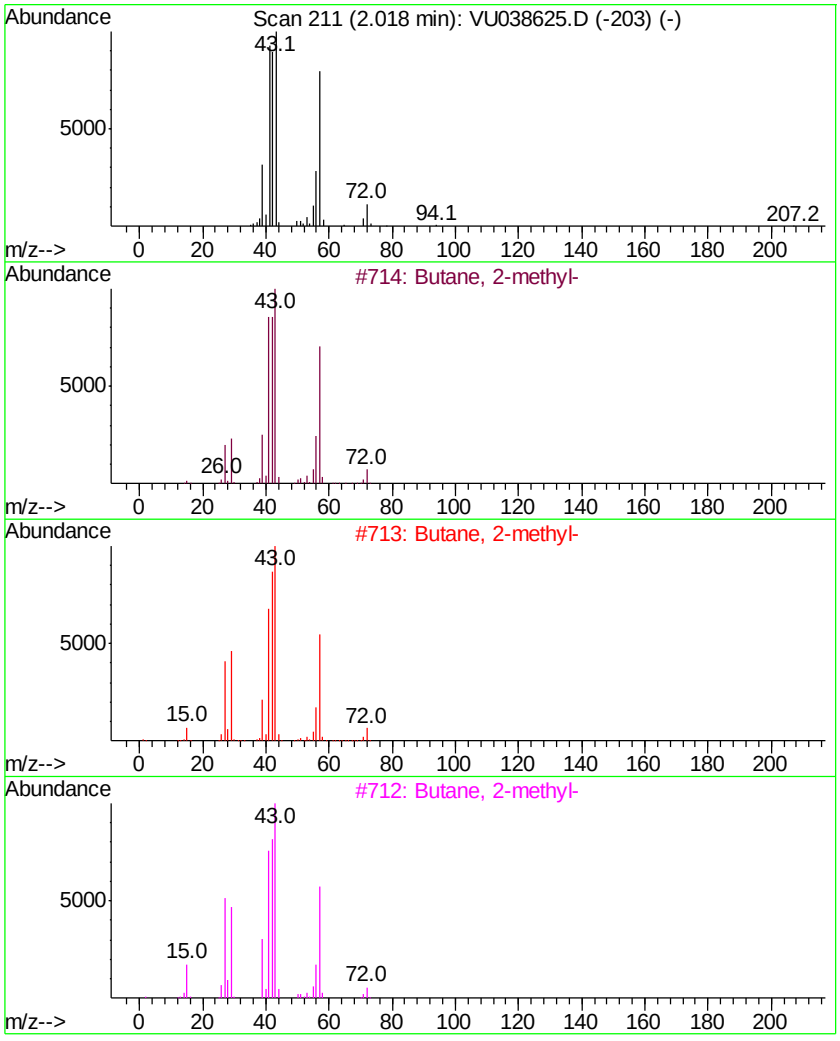
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

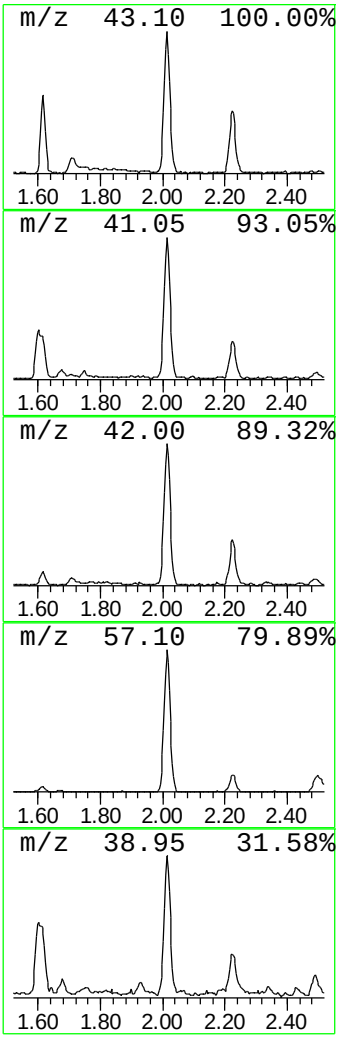
****

Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.02	0.99 ug/L	151127	1,4-Difluorobenzene	6.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	91
2	Butane, 2-methyl-	72	C5H12	000078-78-4	91
3	Butane, 2-methyl-	72	C5H12	000078-78-4	80
4	3-Buten-1-ol	72	C4H8O	000627-27-0	47
5	Pentane	72	C5H12	000109-66-0	33





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU060620\
Data File : VU038625.D
Acq On : 06 Jun 2020 18:25
Operator : SY/MD
Sample : L2910-18
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9D53

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR053120WMA.M
Quant Title : TRACE VOA SOM01.0

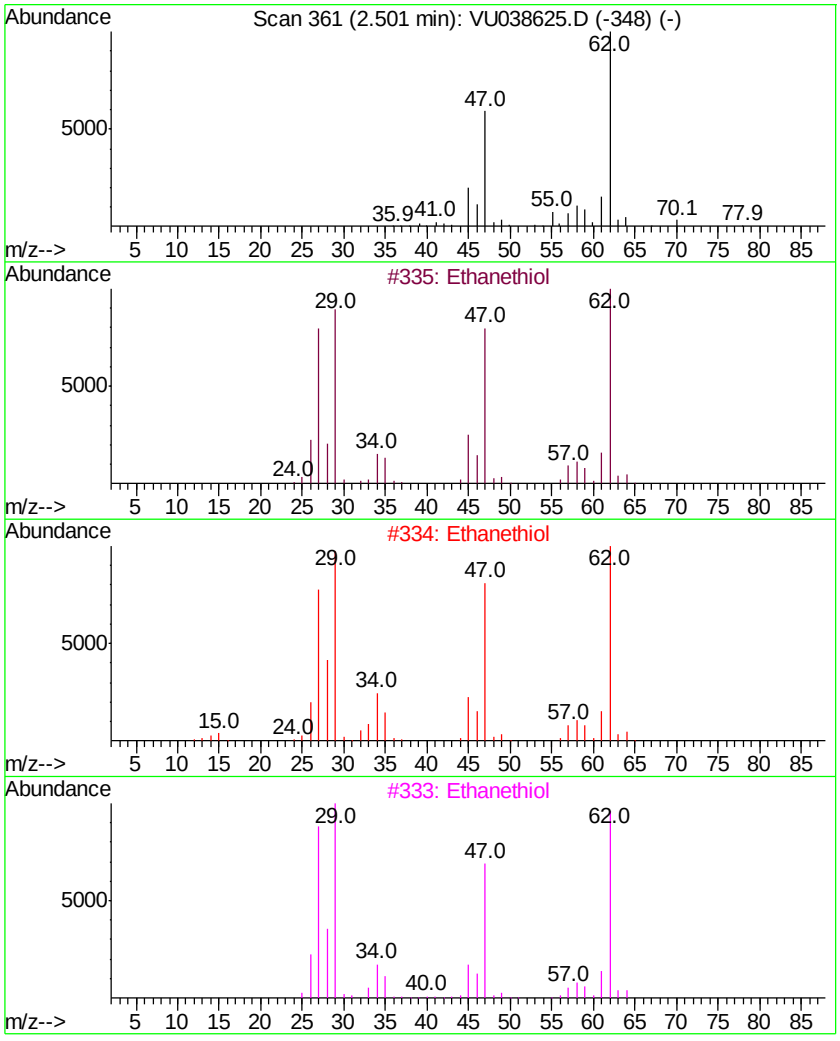
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

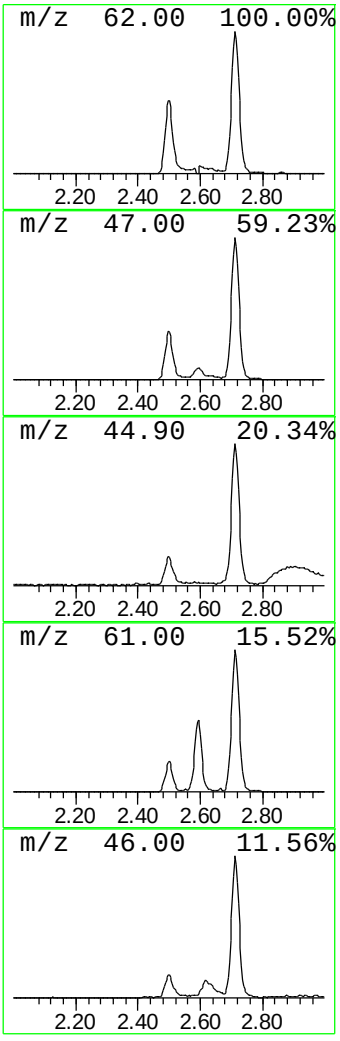
****

Peak Number 4 Ethanethiol Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.50	0.81 ug/L	122898	1,4-Difluorobenzene	6.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanethiol	62	C2H6S	000075-08-1	91
2	Ethanethiol	62	C2H6S	000075-08-1	91
3	Ethanethiol	62	C2H6S	000075-08-1	91
4	Ethanethiol	62	C2H6S	000075-08-1	91
5	Ethanethiol	62	C2H6S	000075-08-1	91





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU060620\
Data File : VU038625.D
Acq On : 06 Jun 2020 18:25
Operator : SY/MD
Sample : L2910-18
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9D53

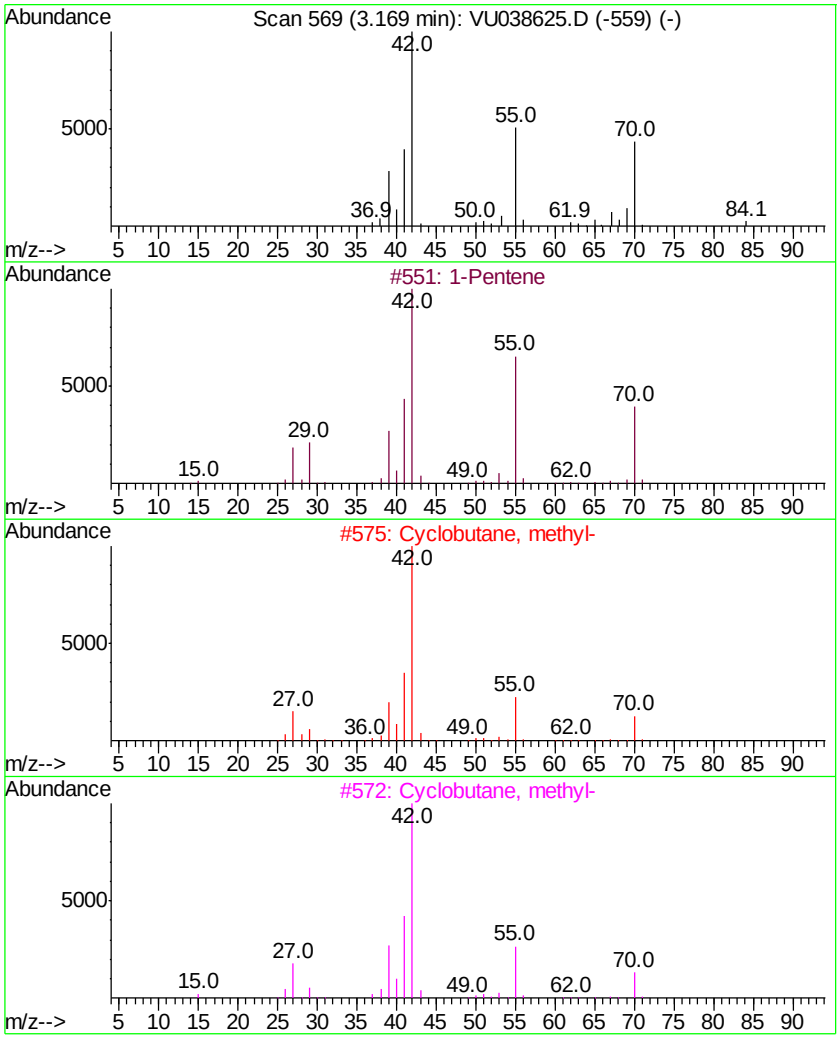
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR053120WMA.M
Quant Title : TRACE VOA SOM01.0

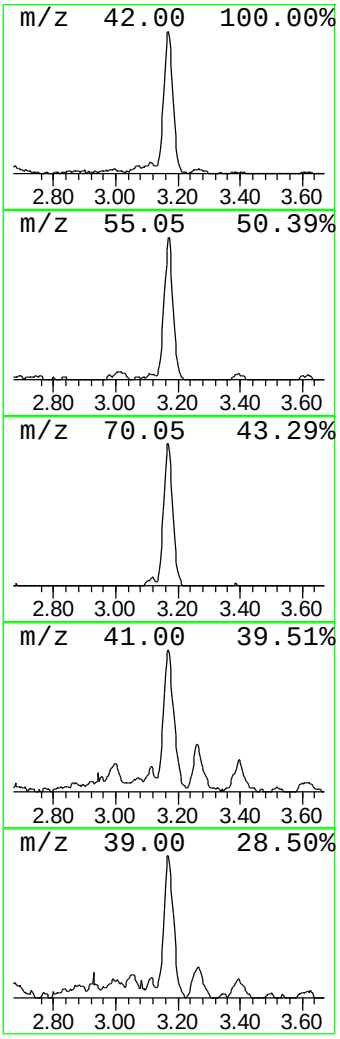
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.17	0.75 ug/L	113761	1,4-Difluorobenzene	6.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Pentene	70	C5H10	000109-67-1	86
2	Cyclobutane, methyl-	70	C5H10	000598-61-8	80
3	Cyclobutane, methyl-	70	C5H10	000598-61-8	80
4	Cyclopentane	70	C5H10	000287-92-3	78
5	1-Pentene	70	C5H10	000109-67-1	72





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060620\
Data File : VU038625.D
Acq On : 06 Jun 2020 18:25
Operator : SY/MD
Sample : L2910-18
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9D53

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR053120WMA.M
Quant Title : TRACE VOA SOM01.0

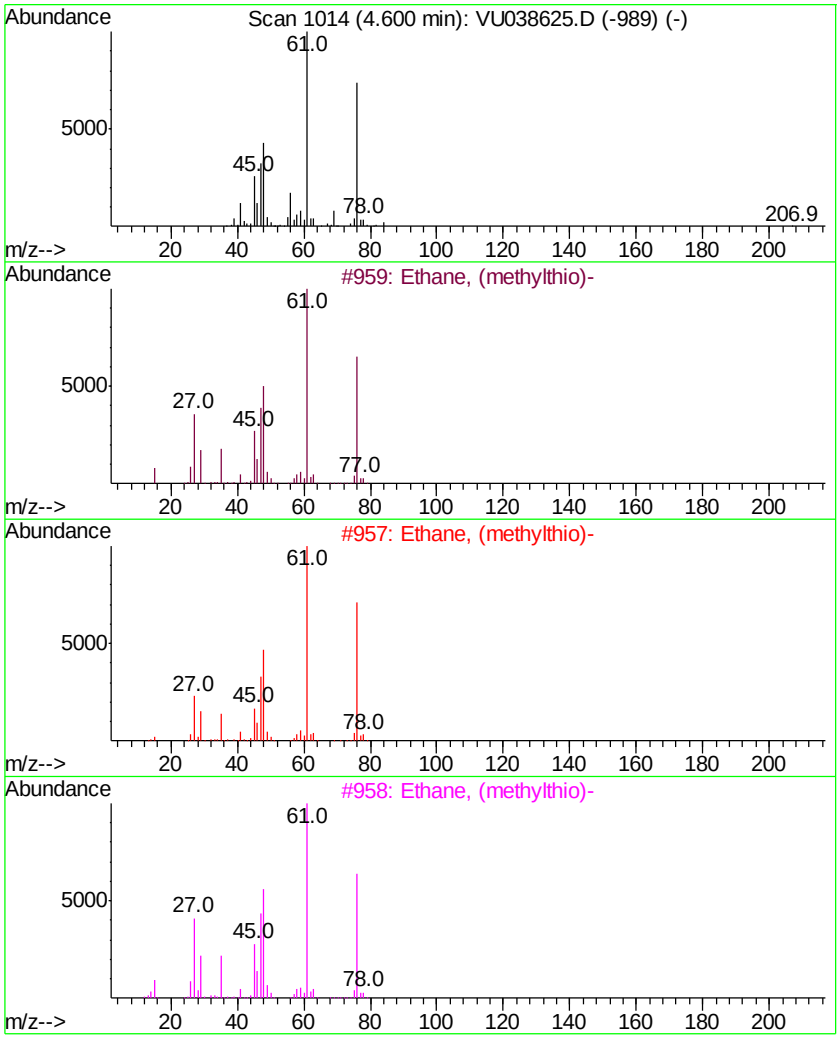
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

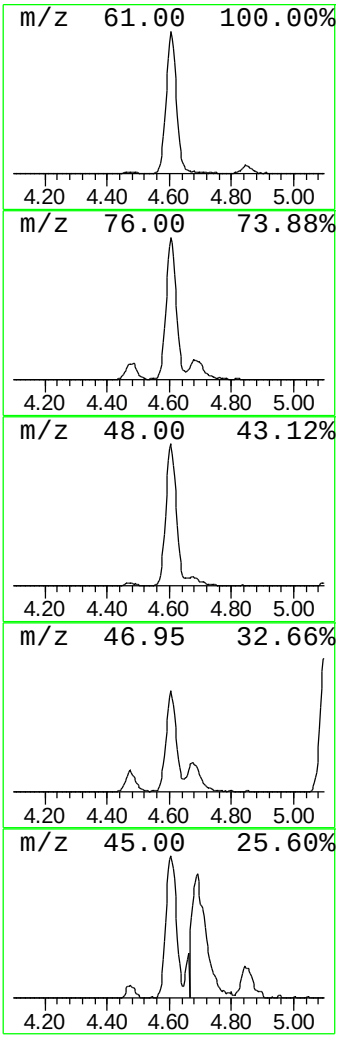
****

Peak Number 6 Ethane, (methylthio)- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.60	3.50 ug/L	531830	1,4-Difluorobenzene	6.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethane, (methylthio)-	76	C3H8S	000624-89-5	95
2	Ethane, (methylthio)-	76	C3H8S	000624-89-5	91
3	Ethane, (methylthio)-	76	C3H8S	000624-89-5	91
4	Trimethylphosphine	76	C3H9P	000594-09-2	64
5	p-Dithiane-2,5-diol	152	C4H8O2S2	040018-26-6	35





Library Search Compound Report

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Data File : VU038625.D
Acq On : 06 Jun 2020 18:25
Operator : SY/MD
Sample : L2910-18
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9D53

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR053120WMA.M
Quant Title : TRACE VOA SOM01.0

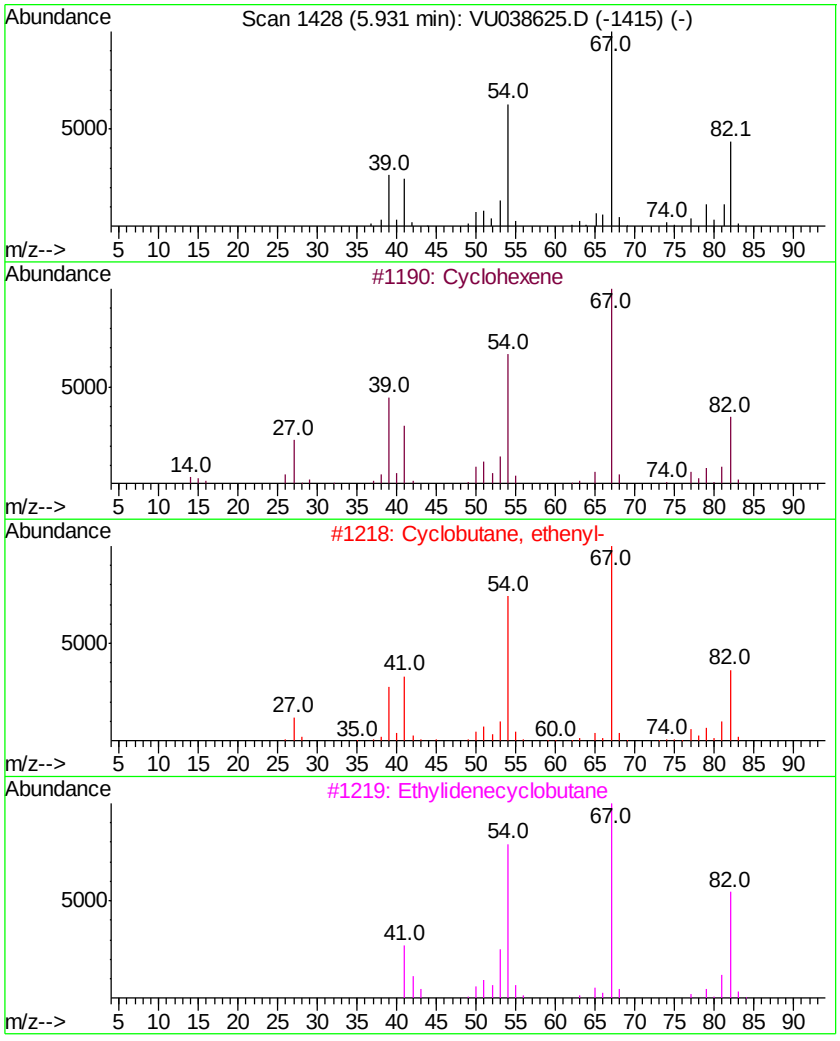
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

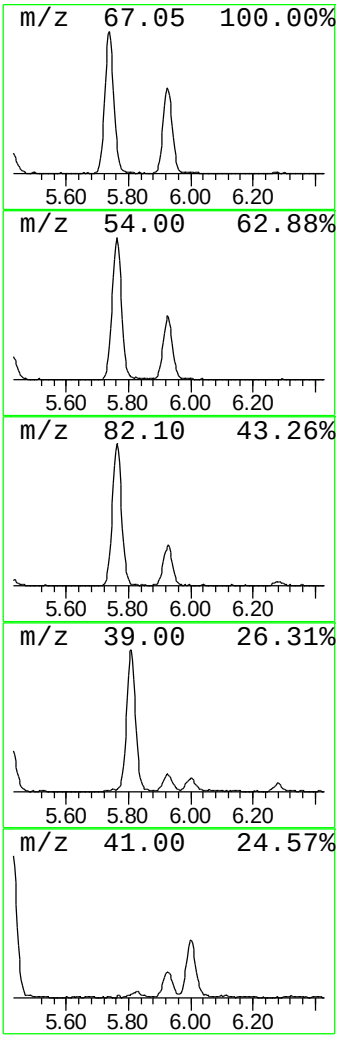
****

Peak Number 7 Cyclobutane, ethenyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.93	0.77 ug/L	116443	1,4-Difluorobenzene	6.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexene	82	C6H10	000110-83-8	90
2	Cyclobutane, ethenyl-	82	C6H10	002597-49-1	87
3	Ethylidenecyclobutane	82	C6H10	001528-21-8	83
4	Cyclohexene	82	C6H10	000110-83-8	83
5	Cyclohexene	82	C6H10	000110-83-8	80





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Acq On : 06 Jun 2020 18:25
Operator : SY/MD
Sample : L2910-18
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9D53

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR053120WMA.M
Quant Title : TRACE VOA SOM01.0

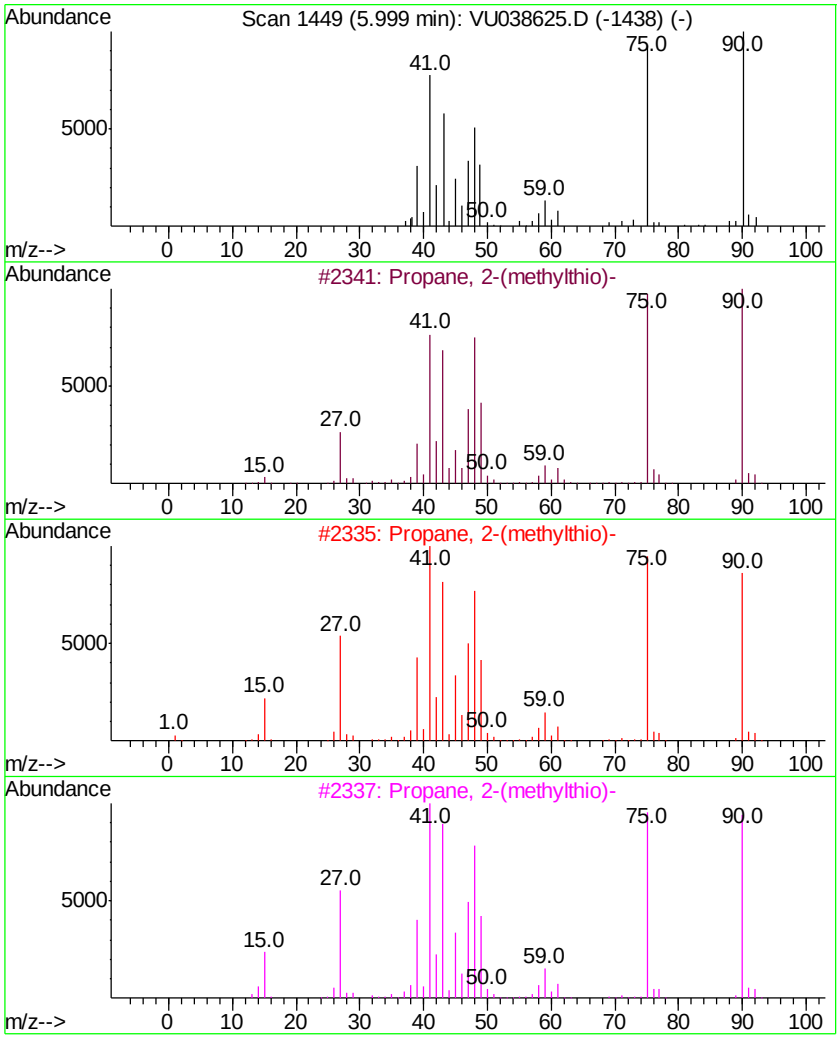
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

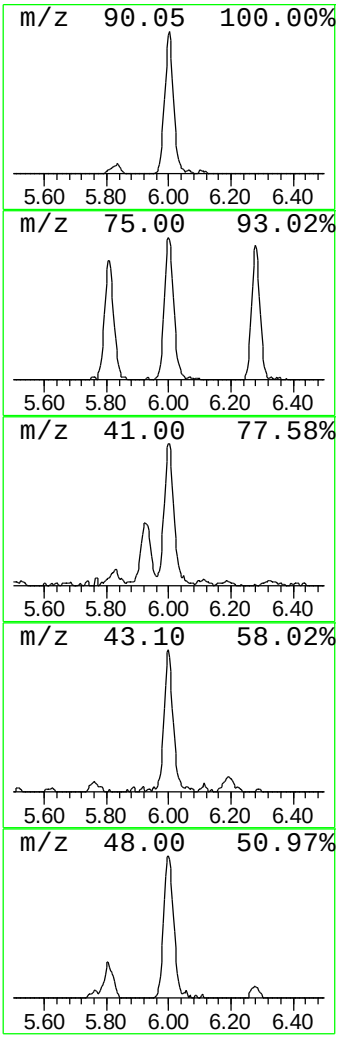
****

Peak Number 8 Propane, 2-(methylthio)- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.00	0.85 ug/L	129008	1,4-Difluorobenzene	6.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propane, 2-(methylthio)-	90	C4H10S	001551-21-9	94
2	Propane, 2-(methylthio)-	90	C4H10S	001551-21-9	94
3	Propane, 2-(methylthio)-	90	C4H10S	001551-21-9	91
4	1-Propanethiol, 2-methyl-	90	C4H10S	000513-44-0	52
5	3-Thietanol	90	C3H6OS	010304-16-2	47





Library Search Compound Report

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Data File : VU038625.D
Acq On : 06 Jun 2020 18:25
Operator : SY/MD
Sample : L2910-18
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9D53

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR053120WMA.M
Quant Title : TRACE VOA SOM01.0

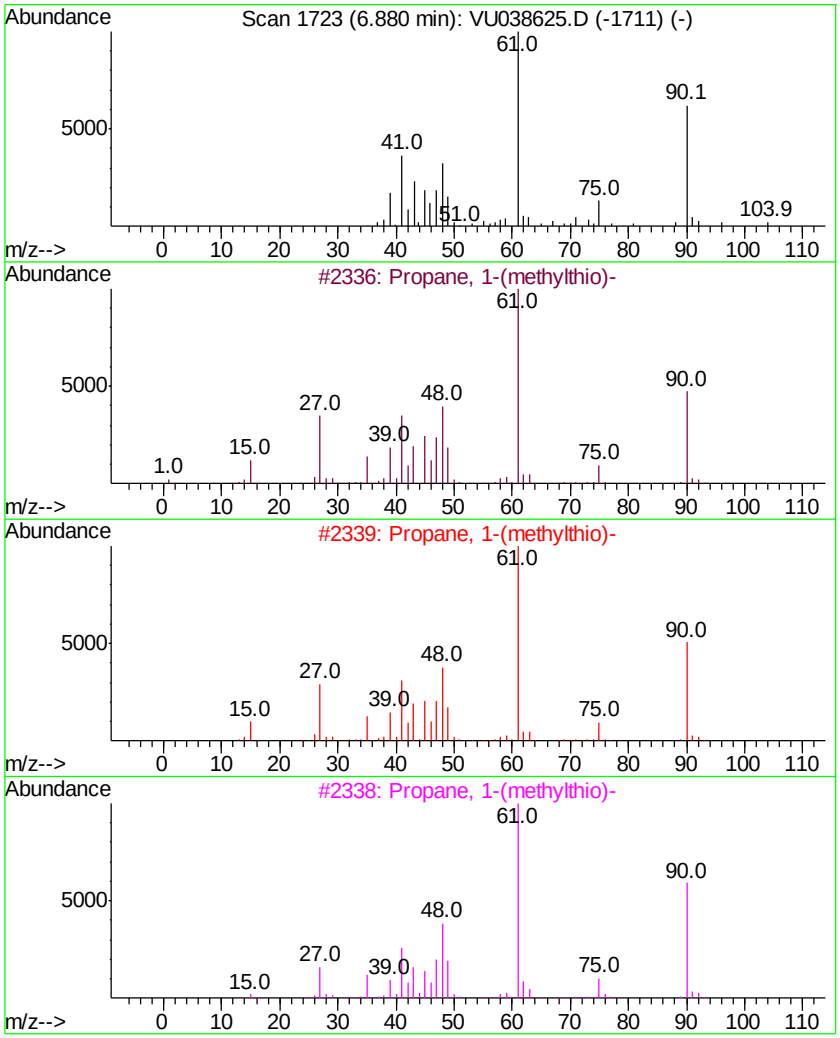
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

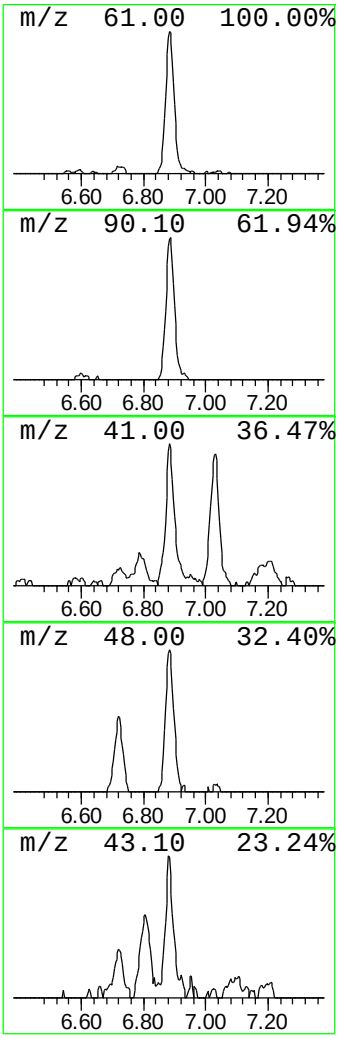
****

Peak Number 9 Propane, 1-(methylthio)- Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.88	0.55 ug/L	83185	1,4-Difluorobenzene	6.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propane, 1-(methylthio)-	90	C4H10S	003877-15-4	91
2	Propane, 1-(methylthio)-	90	C4H10S	003877-15-4	91
3	Propane, 1-(methylthio)-	90	C4H10S	003877-15-4	90
4	Propane, 1-(methylthio)-	90	C4H10S	003877-15-4	50
5	Propanenitrile, 3-(methylthio)-	101	C4H7NS	054974-63-9	50





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Data File : VU038625.D
Acq On : 06 Jun 2020 18:25
Operator : SY/MD
Sample : L2910-18
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9D53

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR053120WMA.M
Quant Title : TRACE VOA SOM01.0

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

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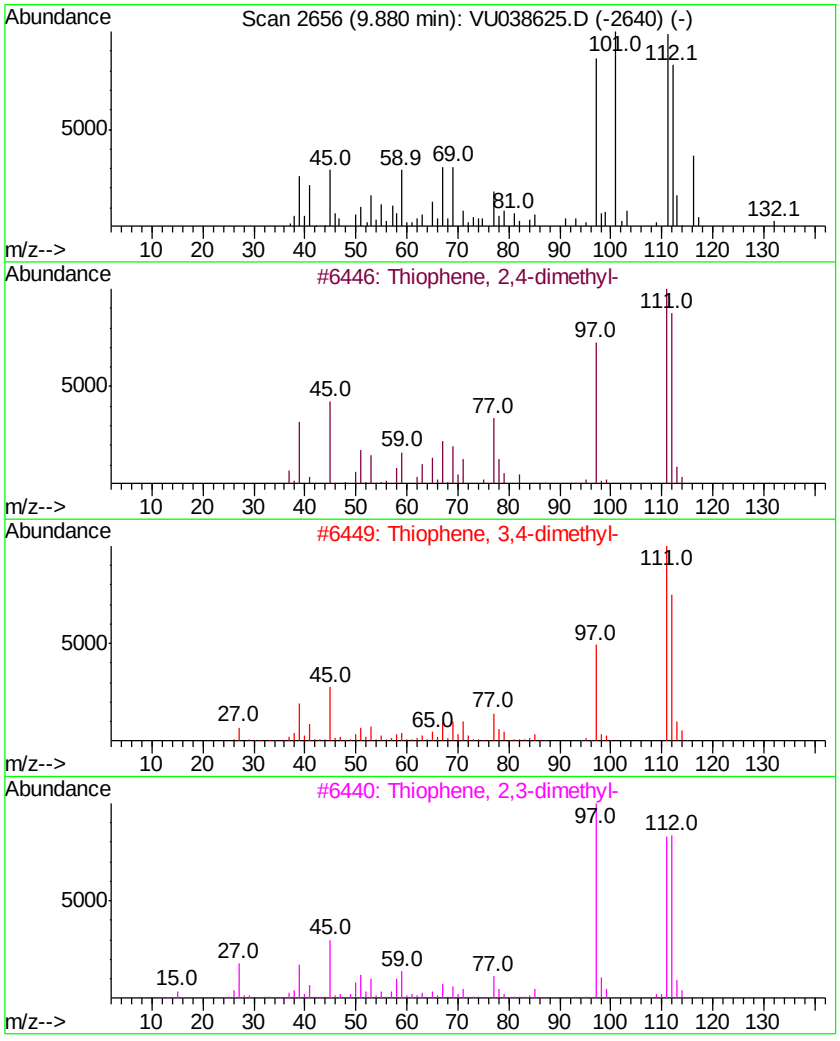
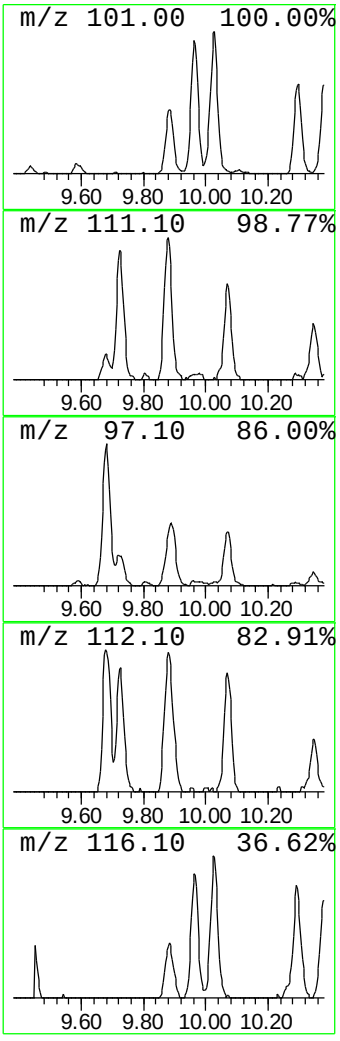
Peak Number 11 Thiophene, 2,4-dimethyl- Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.88	0.58 ug/L	113821	Chlorobenzene-d5	9.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Thiophene, 2,4-dimethyl-	112	C6H8S	000638-00-6	62
2	Thiophene, 3,4-dimethyl-	112	C6H8S	000632-15-5	53
3	Thiophene, 2,3-dimethyl-	112	C6H8S	000632-16-6	52
4	Thiophene, 2,4-dimethyl-	112	C6H8S	000638-00-6	50
5	Thiophene, 2,4-dimethyl-	112	C6H8S	000638-00-6	47





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Data File : VU038625.D
Acq On : 06 Jun 2020 18:25
Operator : SY/MD
Sample : L2910-18
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9D53

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR053120WMA.M
Quant Title : TRACE VOA SOM01.0

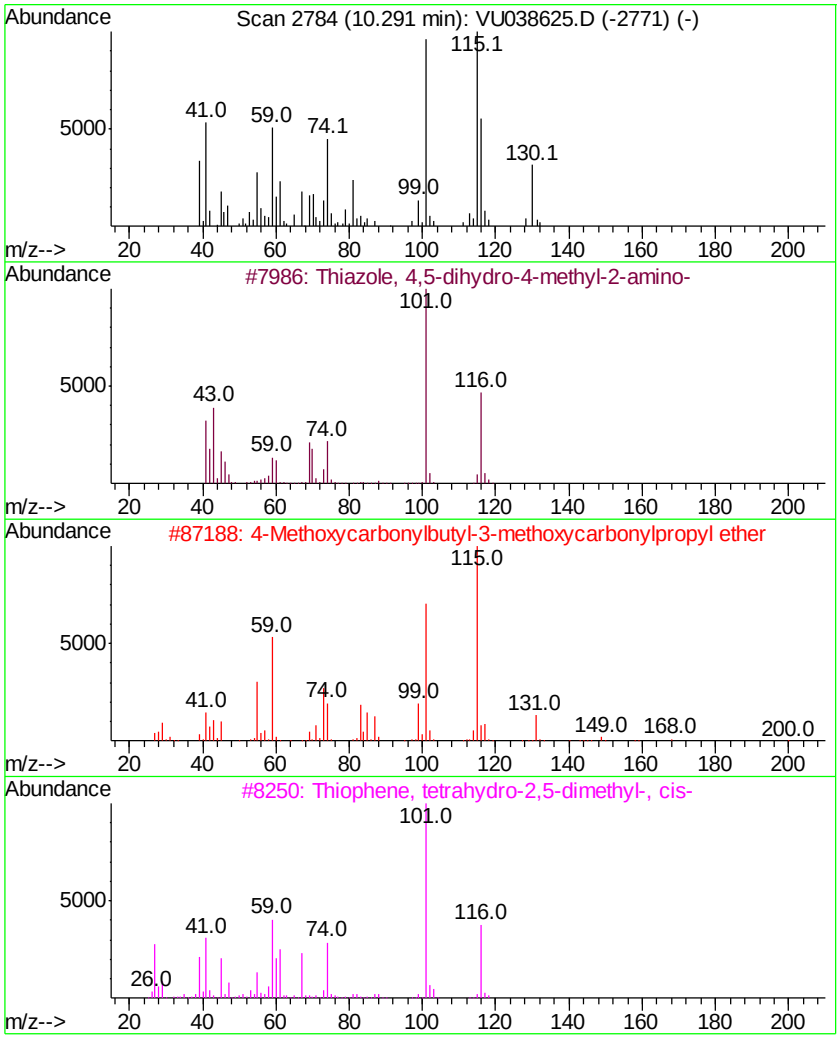
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

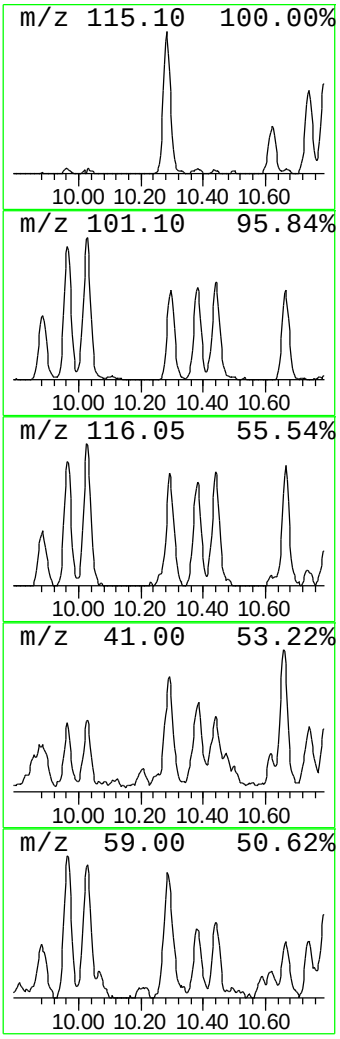
****

Peak Number 12 unknown-01 Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.29	0.60 ug/L	117299	Chlorobenzene-d5	9.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Thiazole, 4,5-dihydro-4-methyl-2...	116	C4H8N2S	010416-81-6	41
2	4-Methoxycarbonylbutyl-3-methoxy...	232	C11H20O5	017361-53-4	40
3	Thiophene, tetrahydro-2,5-dimeth...	116	C6H12S	005161-13-7	38
4	trans-2,3-Dimethylthiophane	116	C6H12S	005161-78-4	35
5	Thiophene, tetrahydro-2,5-dimeth...	116	C6H12S	005161-14-8	35





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Data File : VU038625.D
Acq On : 06 Jun 2020 18:25
Operator : SY/MD
Sample : L2910-18
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9D53

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR053120WMA.M
Quant Title : TRACE VOA SOM01.0

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

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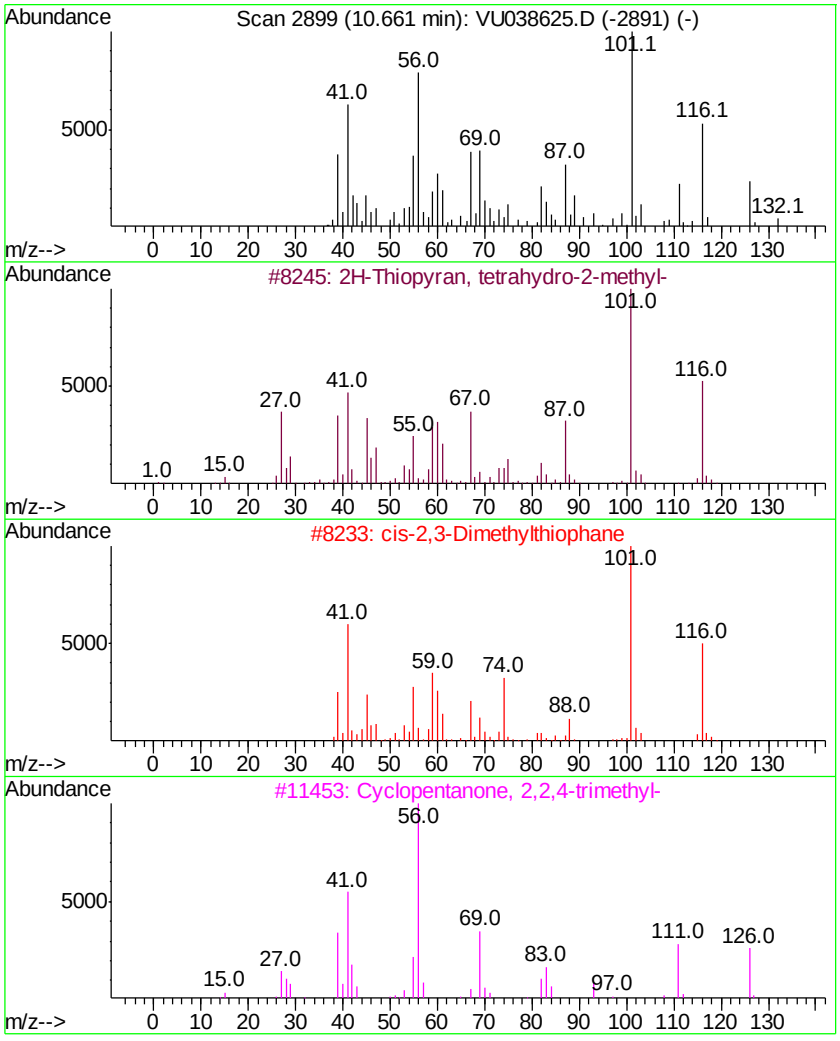
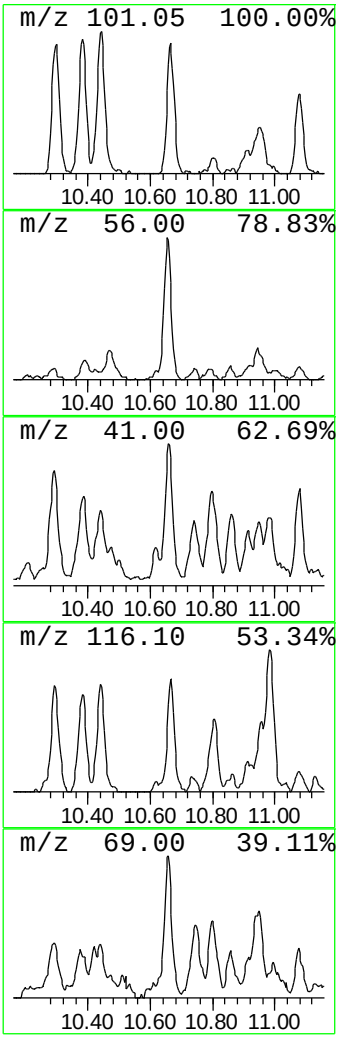
Peak Number 13 2H-Thiopyran, tetrahydro-2-... Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.66	0.58 ug/L	132896	1,4-Dichlorobenzene-d4	11.82

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2H-Thiopyran, tetrahydro-2-methyl-	116	C6H12S	005161-16-0	90
2	cis-2,3-Dimethylthiophane	116	C6H12S	005161-77-3	43
3	Cyclopentanone, 2,2,4-trimethyl-	126	C8H14O	028056-54-4	38
4	trans-2,3-Dimethylthiophane	116	C6H12S	005161-78-4	35
5	Thiazole, 4,5-dihydro-4-methyl-2...	116	C4H8N2S	010416-81-6	30





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Data File : VU038625.D
Acq On : 06 Jun 2020 18:25
Operator : SY/MD
Sample : L2910-18
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9D53

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR053120WMA.M
Quant Title : TRACE VOA SOM01.0

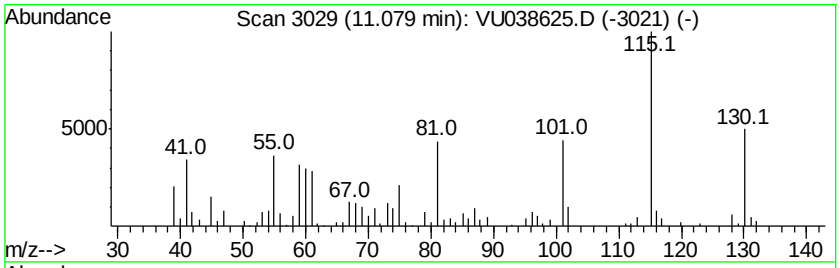
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

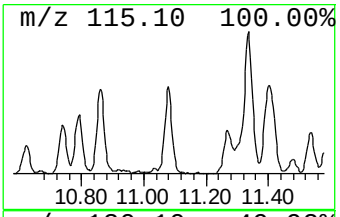
****

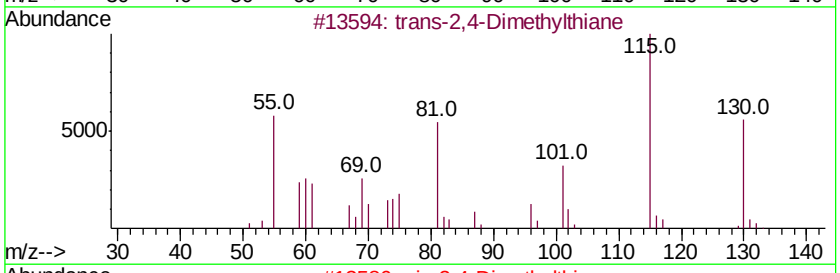
Peak Number 14 trans-2,4-Dimethylthiane Concentration Rank 23

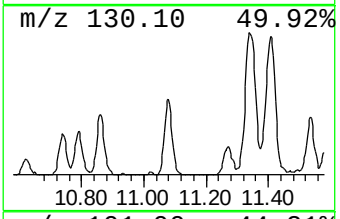
R.T.	EstConc	Area	Relative to ISTD	R.T.
11.08	0.57 ug/L	131094	1,4-Dichlorobenzene-d4	11.82

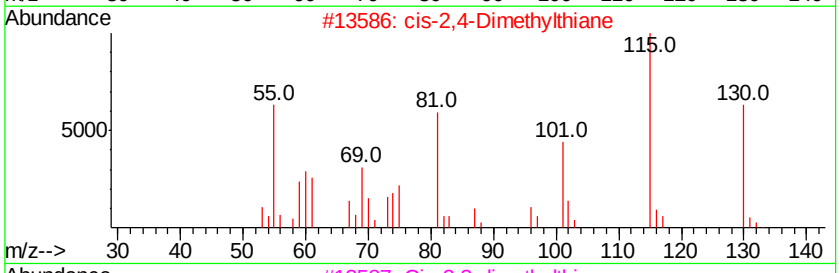
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	trans-2,4-Dimethylthiane	130	C7H14S	061568-42-1	93
2	cis-2,4-Dimethylthiane	130	C7H14S	061568-43-2	64
3	Cis-2,3-dimethylthiane	130	C7H14S	1000215-06-5	62
4	Allyloxytrimethylsilane	130	C6H14OSi	018146-00-4	49
5	Benzene, 1-butynyl-	130	C10H10	000622-76-4	45

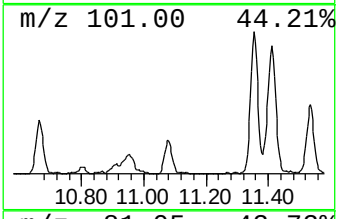


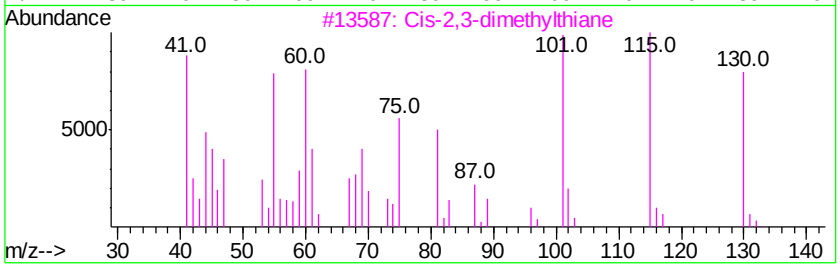


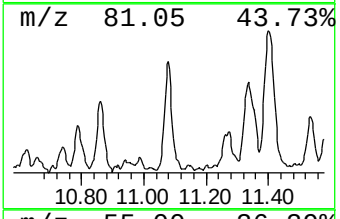


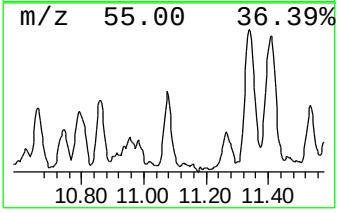












Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060620\
Data File : VU038625.D
Acq On : 06 Jun 2020 18:25
Operator : SY/MD
Sample : L2910-18
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9D53

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR053120WMA.M
Quant Title : TRACE VOA SOM01.0

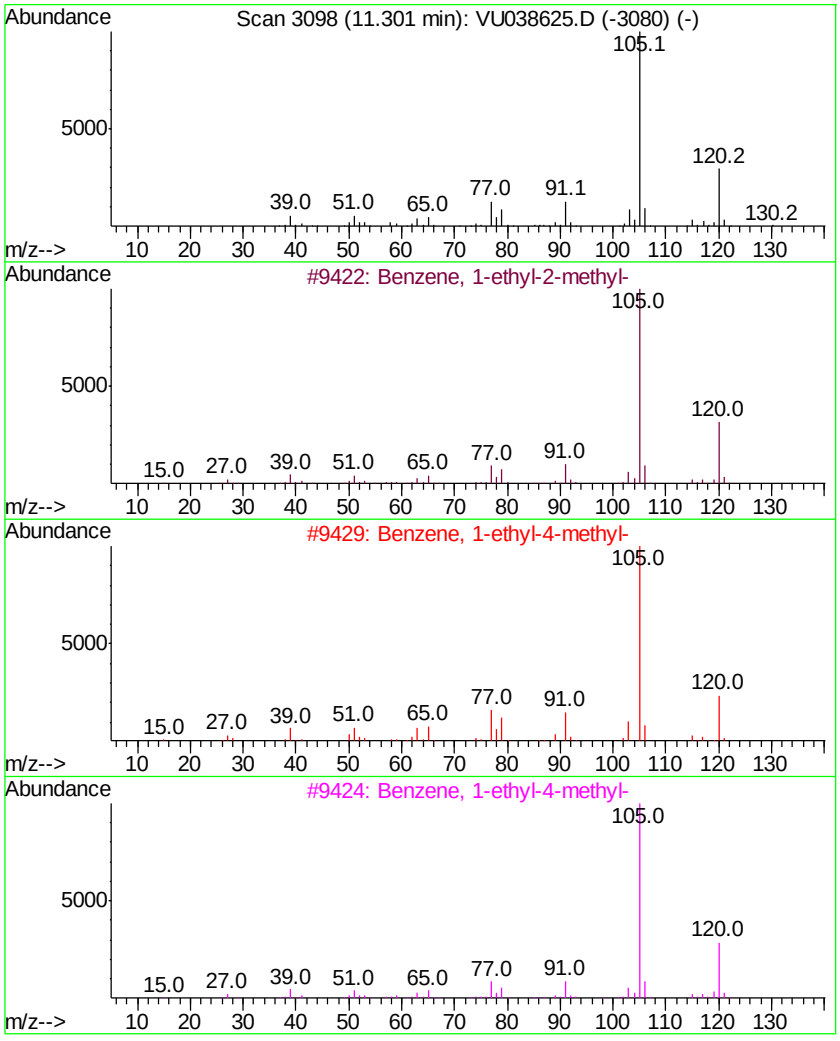
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

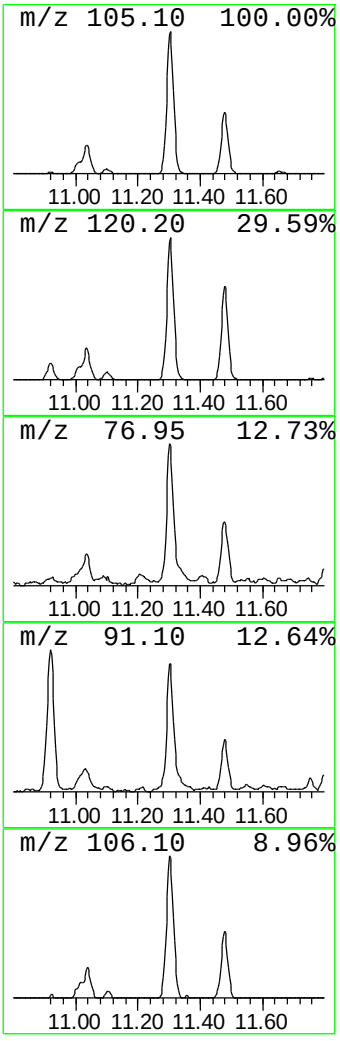
****

Peak Number 15 Benzene, 1-ethyl-2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.30	1.55 ug/L	356760	1,4-Dichlorobenzene-d4	11.82

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-4-methyl-	120	C9H12	000622-96-8	93
3	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	91
4	Mesitylene	120	C9H12	000108-67-8	91
5	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	91





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060620\
Data File : VU038625.D
Acq On : 06 Jun 2020 18:25
Operator : SY/MD
Sample : L2910-18
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9D53

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR053120WMA.M
Quant Title : TRACE VOA SOM01.0

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

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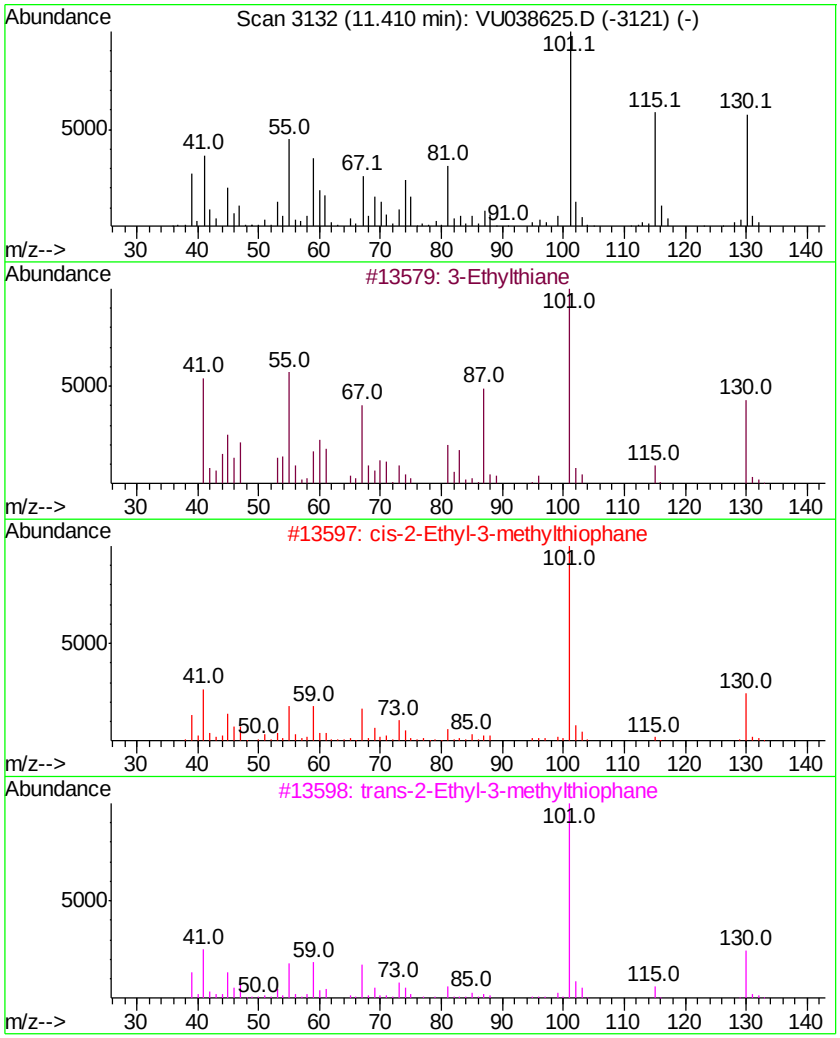
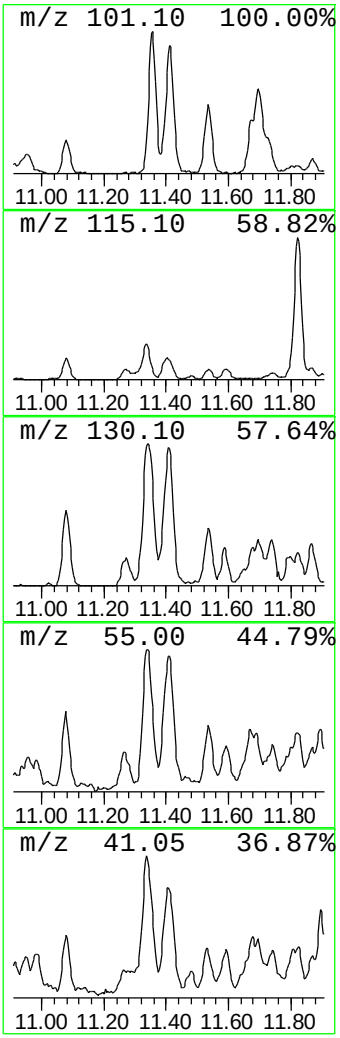
Peak Number 16 3-Ethylthiane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.41	1.12 ug/L	257078	1,4-Dichlorobenzene-d4	11.82

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Ethylthiane	130	C7H14S	061568-48-7	64
2	cis-2-Ethyl-3-methylthiophane	130	C7H14S	061568-37-4	50
3	trans-2-Ethyl-3-methylthiophane	130	C7H14S	061568-36-3	50
4	trans-2,3-Dimethylthiophane	116	C6H12S	005161-78-4	49
5	Thiophene, tetrahydro-2,5-dimeth...	116	C6H12S	005161-14-8	47





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060620\
Data File : VU038625.D
Acq On : 06 Jun 2020 18:25
Operator : SY/MD
Sample : L2910-18
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9D53

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR053120WMA.M
Quant Title : TRACE VOA SOM01.0

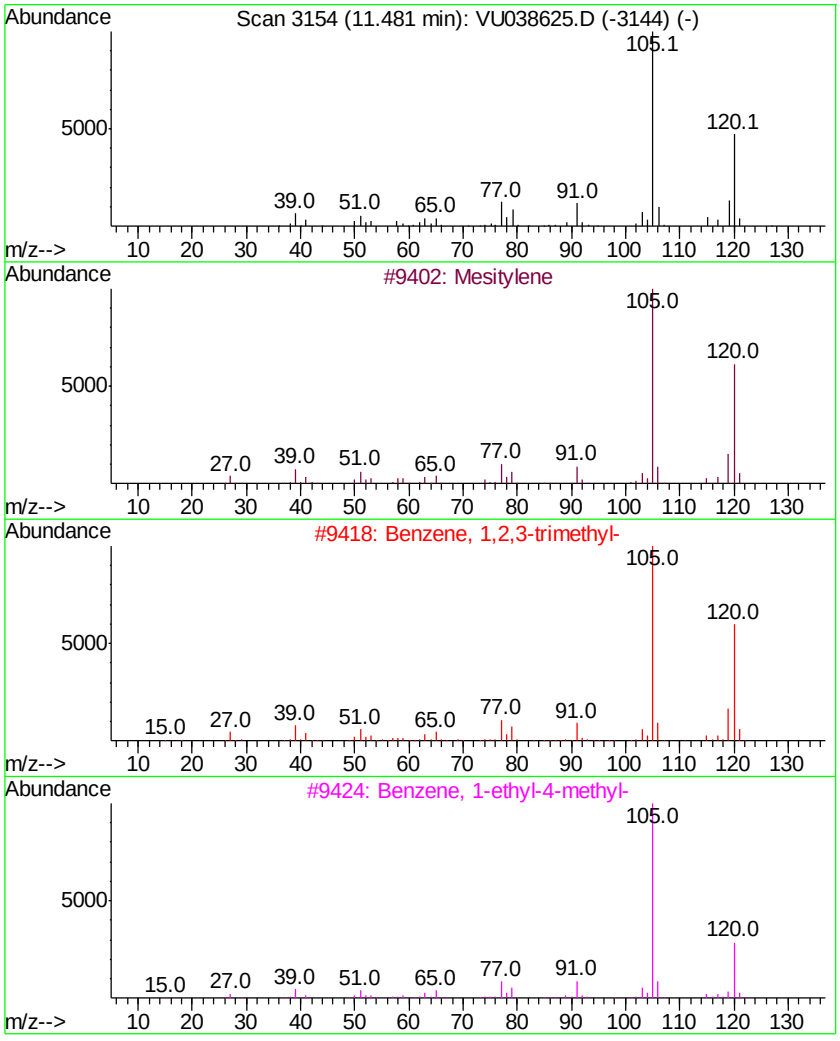
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

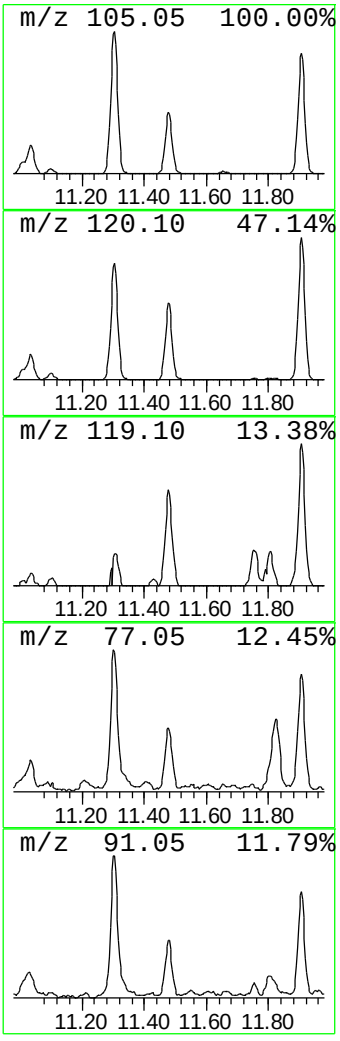
****

Peak Number 17 Mesitylene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.48	0.61 ug/L	139707	1,4-Dichlorobenzene-d4	11.82

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Mesitylene	120	C9H12	000108-67-8	97
2	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	97
3	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	91
4	Mesitylene	120	C9H12	000108-67-8	91
5	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	91





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060620\
Data File : VU038625.D
Acq On : 06 Jun 2020 18:25
Operator : SY/MD
Sample : L2910-18
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9D53

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR053120WMA.M
Quant Title : TRACE VOA SOM01.0

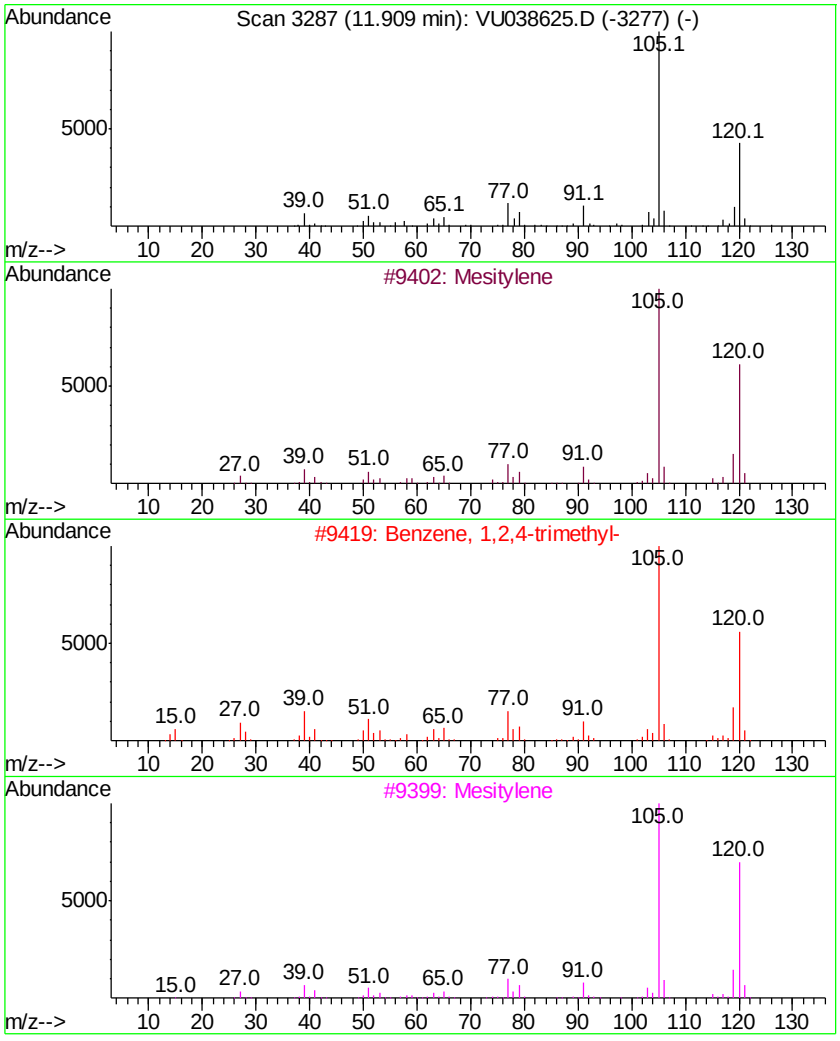
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

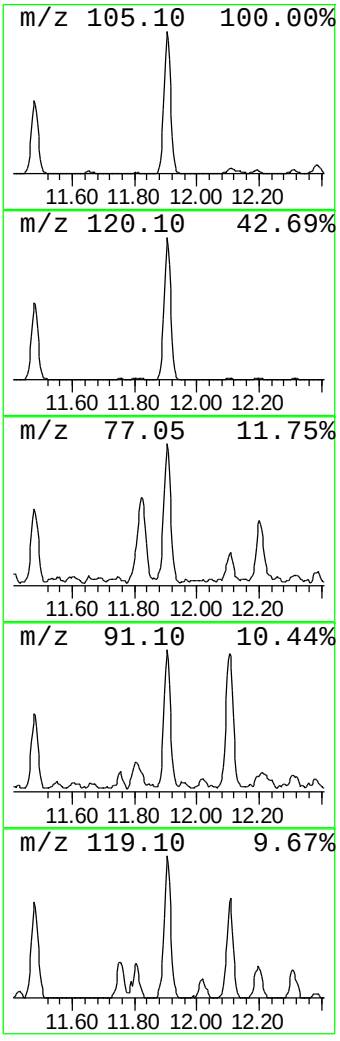
****

Peak Number 18 Benzene, 1,2,4-trimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.91	1.38 ug/L	317760	1,4-Dichlorobenzene-d4	11.82

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Mesitylene	120	C9H12	000108-67-8	93
2	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	91
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\VU060620\
Data File : VU038625.D
Acq On : 06 Jun 2020 18:25
Operator : SY/MD
Sample : L2910-18
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9D53

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR053120WMA.M
Quant Title : TRACE VOA SOM01.0

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

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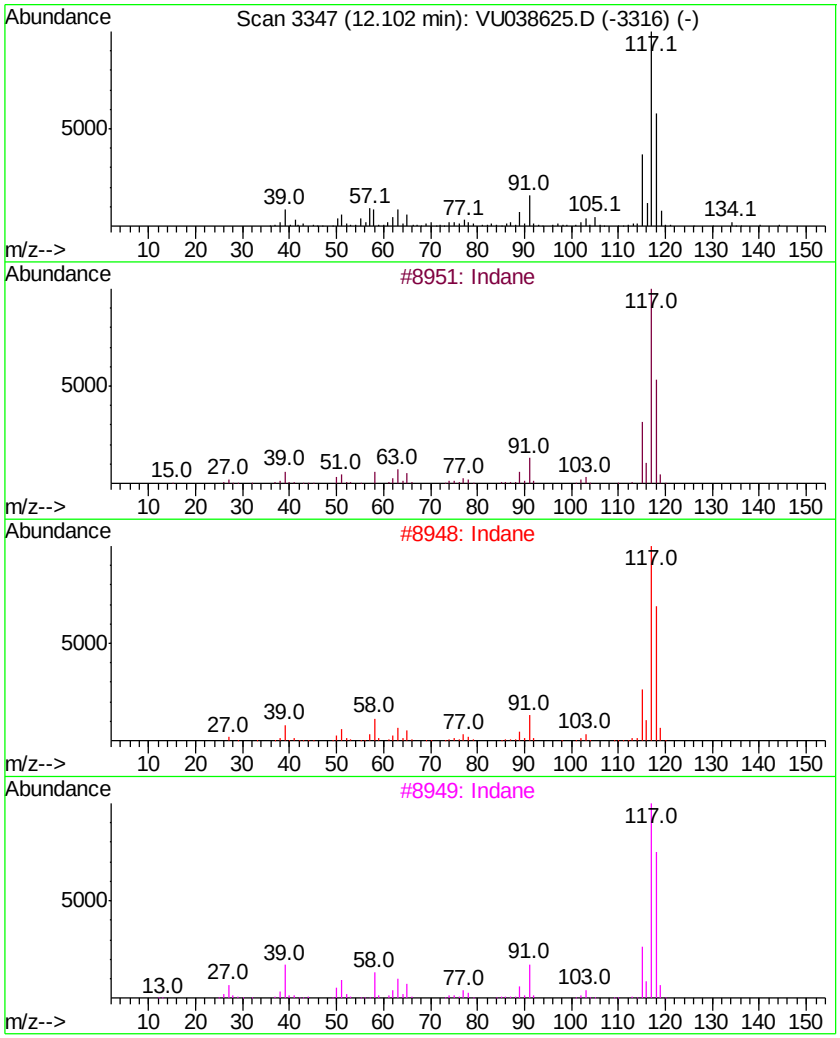
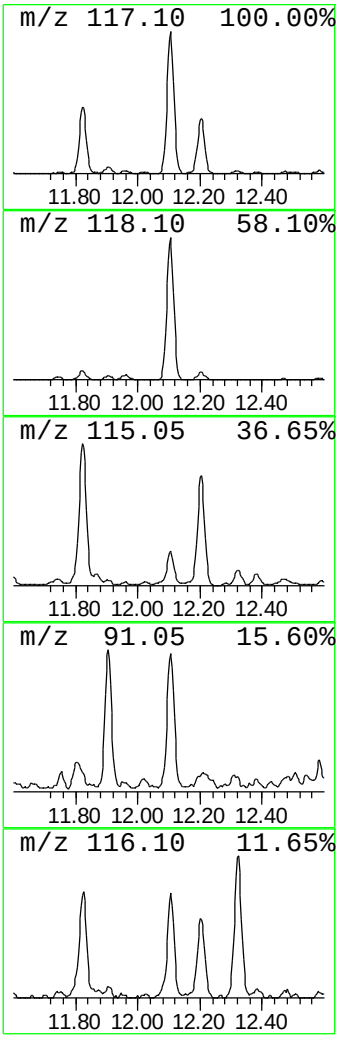
Peak Number 19 Indane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.10	1.74 ug/L	400483	1,4-Dichlorobenzene-d4	11.82

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	94
2	Indane	118	C9H10	000496-11-7	93
3	Indane	118	C9H10	000496-11-7	91
4	Benzene, 2-propenyl-	118	C9H10	000300-57-2	74
5	Benzene, 1-ethenyl-2-methyl-	118	C9H10	000611-15-4	74





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU060620\
Data File : VU038625.D
Acq On : 06 Jun 2020 18:25
Operator : SY/MD
Sample : L2910-18
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9D53

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR053120WMA.M
Quant Title : TRACE VOA SOM01.0

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

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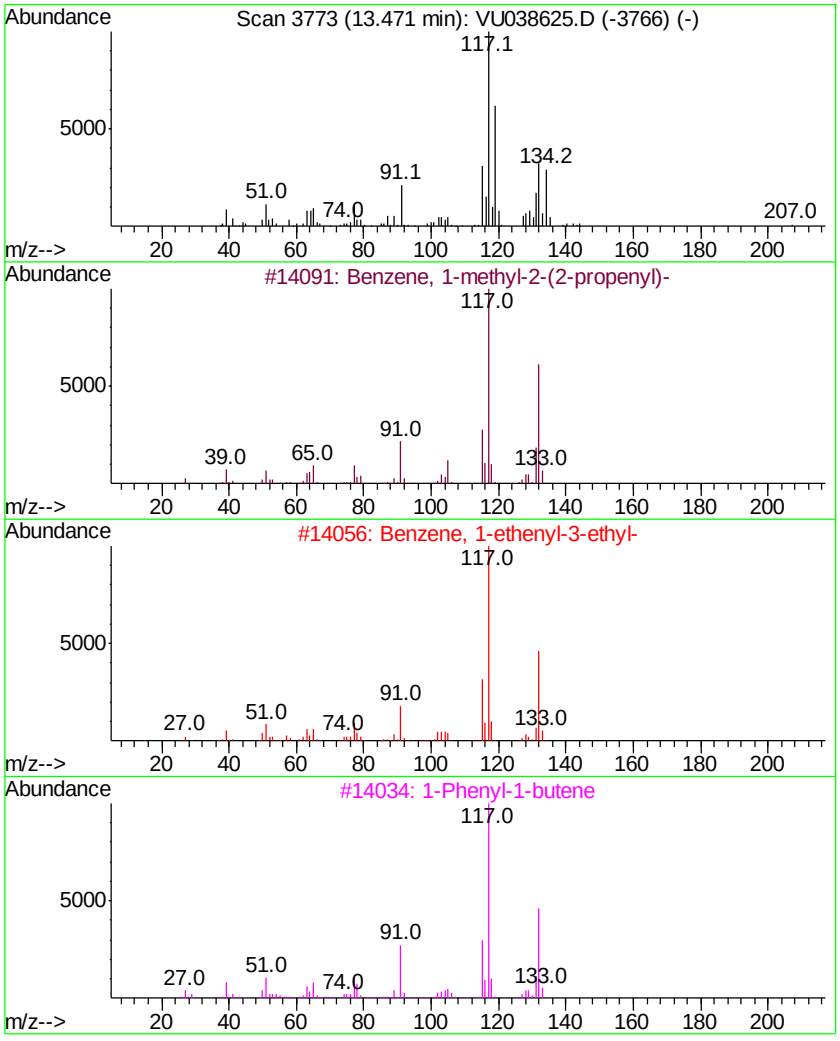
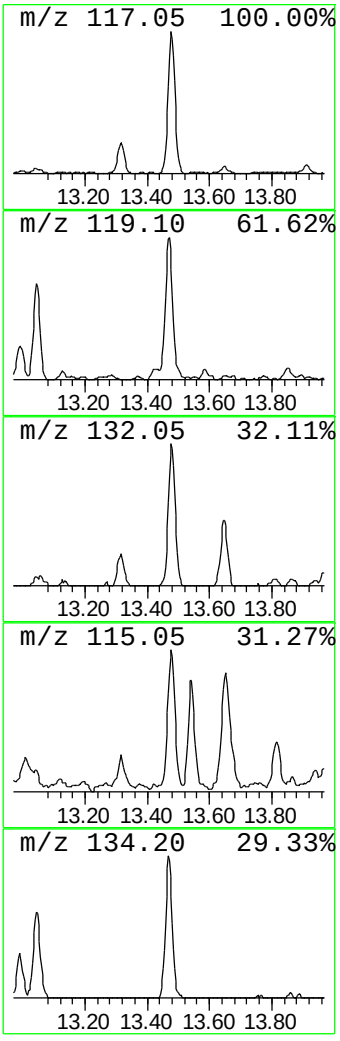
Peak Number 20 Benzene, 1-methyl-2-(2-prop... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.47	0.72 ug/L	165410	1,4-Dichlorobenzene-d4	11.82

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-2-(2-propenyl)-	132	C10H12	001587-04-8	70
2	Benzene, 1-ethenyl-3-ethyl-	132	C10H12	007525-62-4	64
3	1-Phenyl-1-butene	132	C10H12	000824-90-8	64
4	1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	64
5	Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	64





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060620\
Data File : VU038625.D
Acq On : 06 Jun 2020 18:25
Operator : SY/MD
Sample : L2910-18
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9D53

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR053120WMA.M
Quant Title : TRACE VOA SOM01.0

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

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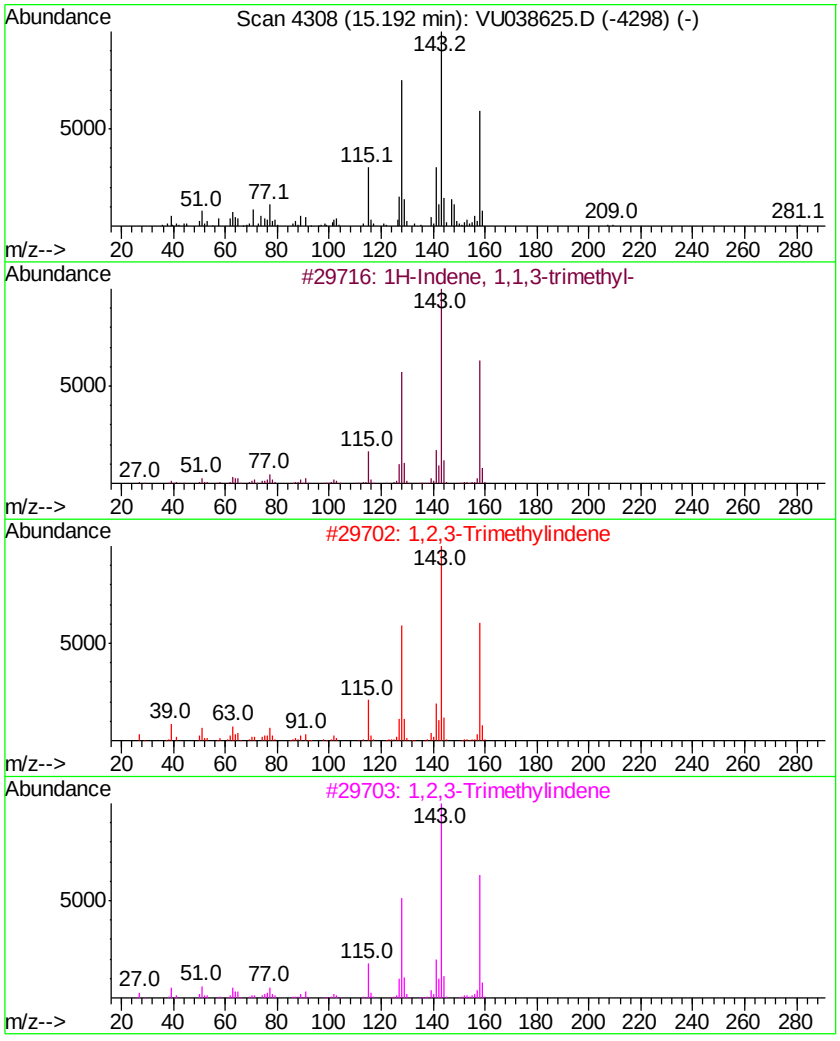
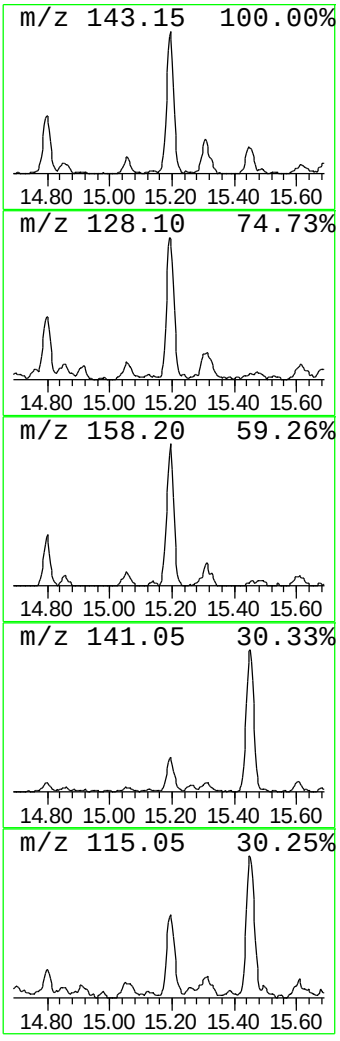
Peak Number 23 1H-Indene, 1,1,3-trimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.19	0.65 ug/L	150109	1,4-Dichlorobenzene-d4	11.82

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 1,1,3-trimethyl-	158	C12H14	002177-45-9	94
2	1,2,3-Trimethylindene	158	C12H14	004773-83-5	94
3	1,2,3-Trimethylindene	158	C12H14	004773-83-5	81
4	Benzene, 1,4-bis(1-methylethenyl)-	158	C12H14	001605-18-1	76
5	Benzene, 1,4-bis(1-methylethenyl)-	158	C12H14	001605-18-1	68





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060620\
Data File : VU038625.D
Acq On : 06 Jun 2020 18:25
Operator : SY/MD
Sample : L2910-18
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9D53

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR053120WMA.M
Quant Title : TRACE VOA SOM01.0

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

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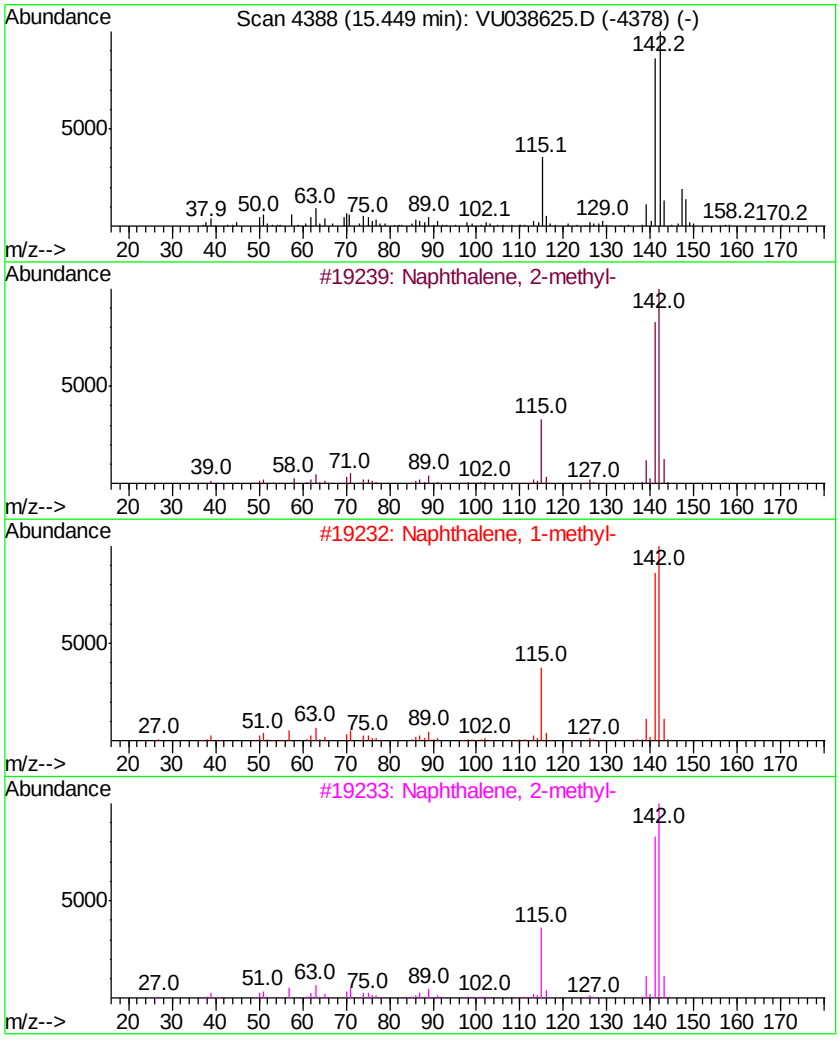
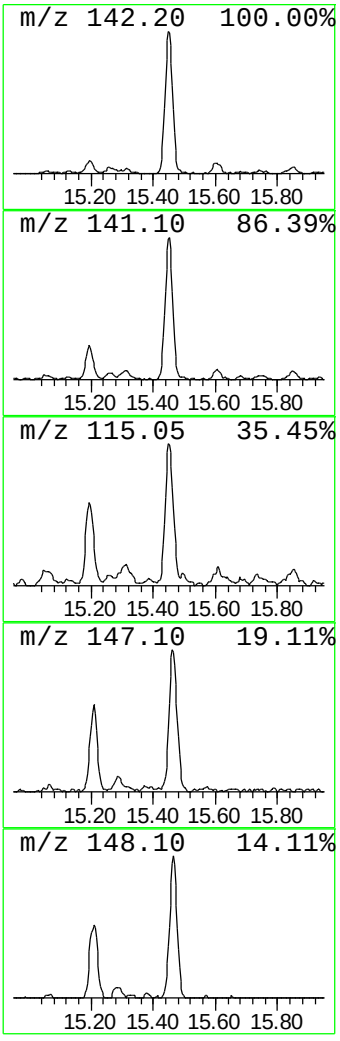
Peak Number 24 Naphthalene, 1-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.45	0.87 ug/L	200384	1,4-Dichlorobenzene-d4	11.82

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	96
2	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	95
3	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	95
4	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	94
5	Benzocycloheptatriene	142	C11H10	000264-09-5	93





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060620\
Data File : VU038625.D
Acq On : 06 Jun 2020 18:25
Operator : SY/MD
Sample : L2910-18
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9D53

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR053120WMA.M
Quant Title : TRACE VOA SOM01.0

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

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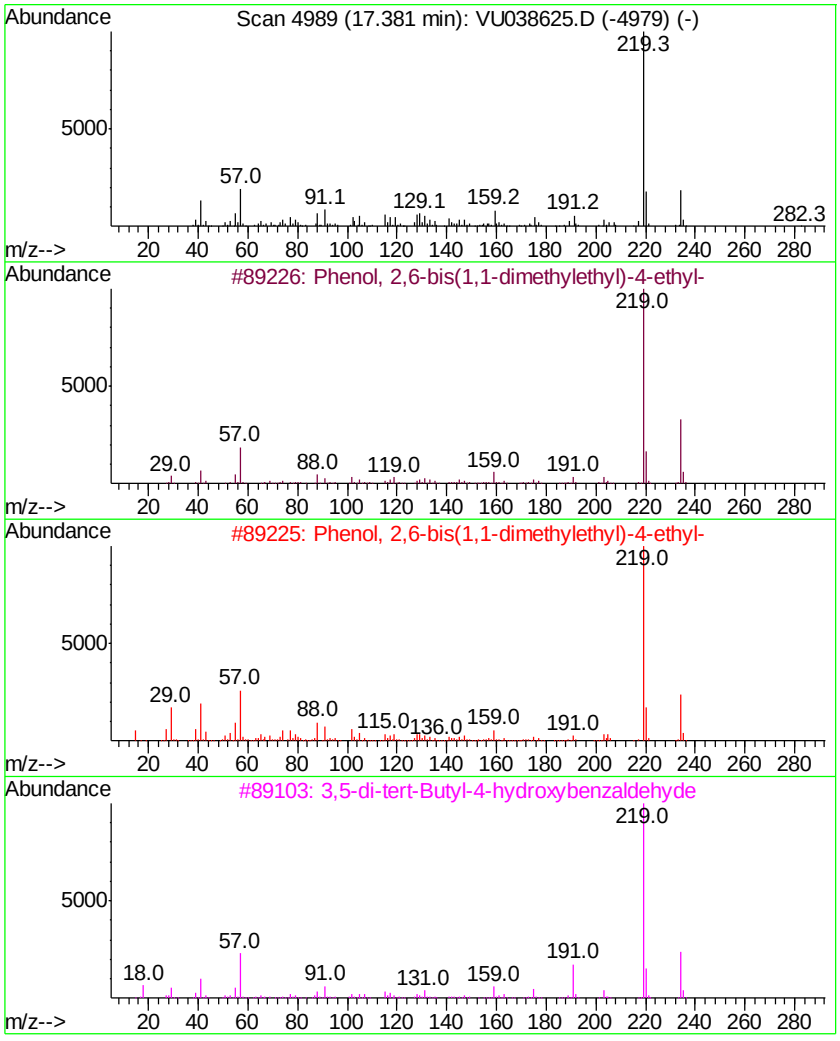
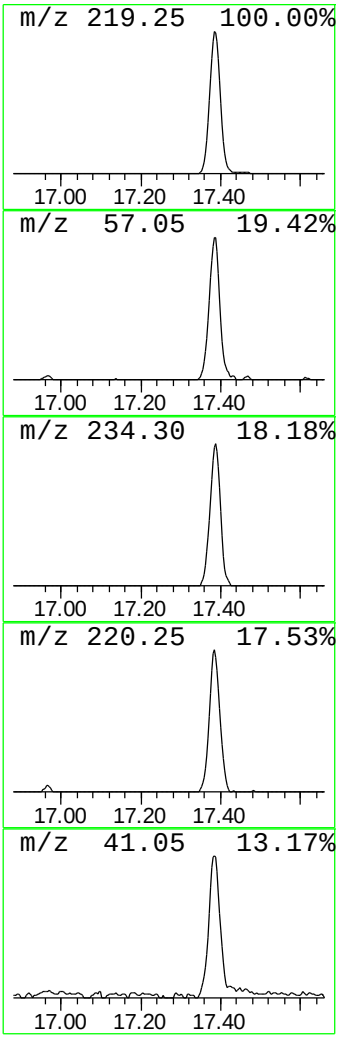
Peak Number 25 Phenol, 2,6-bis(1,1-dimethy... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.38	1.47 ug/L	339237	1,4-Dichlorobenzene-d4	11.82

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenol, 2,6-bis(1,1-dimethylethy...	234	C16H26O	004130-42-1	96
2	Phenol, 2,6-bis(1,1-dimethylethy...	234	C16H26O	004130-42-1	94
3	3,5-di-tert-Butyl-4-hydroxybenza...	234	C15H22O2	001620-98-0	93
4	Phenol, 2,6-bis(1,1-dimethylethy...	234	C16H26O	004130-42-1	91
5	4-tert-Butyl-2,6-diisopropylphenol	234	C16H26O	057354-65-1	83





Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060620\
Data File : VU038625.D
Acq On : 06 Jun 2020 18:25
Operator : SY/MD
Sample : L2910-18
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : F9D53

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR053120WMA.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
Ethane, 1,1-diflu...	1.37	1.5	ug/L	233010	1	6.28	759478	5.0
Sulfur dioxide	1.53	1.1	ug/L	165290	1	6.28	759478	5.0
(DEL) Alkane: Str...	2.02	1.0	ug/L	151127	1	6.28	759478	5.0
Ethanethiol	2.50	0.8	ug/L	122898	1	6.28	759478	5.0
(DEL) Alkane: Str...	3.17	0.8	ug/L	113761	1	6.28	759478	5.0
Ethane, (methylth...	4.60	3.5	ug/L	531830	1	6.28	759478	5.0
Cyclobutane, ethe...	5.93	0.8	ug/L	116443	1	6.28	759478	5.0
Propane, 2-(methy...	6.00	0.8	ug/L	129008	1	6.28	759478	5.0
Propane, 1-(methy...	6.88	0.6	ug/L	83185	1	6.28	759478	5.0
Thiophene, 2,4-di...	9.88	0.6	ug/L	113821	2	9.44	981154	5.0
unknown-01	10.29	0.6	ug/L	117299	2	9.44	981154	5.0
2H-Thiopyran, tet...	10.66	0.6	ug/L	132896	3	11.82	1152370	5.0
trans-2,4-Dimethy...	11.08	0.6	ug/L	131094	3	11.82	1152370	5.0
Benzene, 1-ethyl-...	11.30	1.6	ug/L	356760	3	11.82	1152370	5.0
3-Ethylthiane	11.41	1.1	ug/L	257078	3	11.82	1152370	5.0
Mesitylene	11.48	0.6	ug/L	139707	3	11.82	1152370	5.0
Benzene, 1,2,4-tr...	11.91	1.4	ug/L	317760	3	11.82	1152370	5.0
Indane	12.10	1.7	ug/L	400483	3	11.82	1152370	5.0
Benzene, 1-methyl...	13.47	0.7	ug/L	165410	3	11.82	1152370	5.0
1H-Indene, 1,1,3-...	15.19	0.7	ug/L	150109	3	11.82	1152370	5.0
Naphthalene, 1-me...	15.45	0.9	ug/L	200384	3	11.82	1152370	5.0
Phenol, 2,6-bis(1...	17.38	1.5	ug/L	339237	3	11.82	1152370	5.0