LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU060619\
Data File : VU032523.D
Acq On : 07 Jun 2019 02:07
Operator : JC/SP
Sample : K3215-12
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 44 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J7

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

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

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.180	24	28	33	rBV2	5582	4911	0.02%	0.008%
2	1.395	86	95	106	rBV2	79538	93785	0.39%	0.162%
3	1.675	175	182	196	rVB	54408	68807	0.29%	0.119%
4	2.267	349	366	376	rBV2	113199	243162	1.02%	0.419%
5	2.318	376	382	393	rVB	12719	20484	0.09%	0.035%
6	2.440	409	420	443	rVB	10813	21990	0.09%	0.038%
7	2.694	491	499	503	rBV4	943	1267	0.01%	0.002%
8	2.820	522	538	555	rBV5	9668	24917	0.10%	0.043%
9	2.981	577	588	603	rVV2	7458	13564	0.06%	0.023%
10	3.177	635	649	675	rBV	100021	217254	0.91%	0.375%
11	3.440	718	731	744	rBV2	7731	16812	0.07%	0.029%
12	3.547	756	764	766	rBV6	1315	1491	0.01%	0.003%
13	3.977	882	898	940	rBV	568535	1447768	6.09%	2.497%
14	4.167	946	957	1003	rVB	80502	226852	0.95%	0.391%
15	4.640	1089	1104	1126	rBV	103410	242633	1.02%	0.419%
16	4.874	1171	1177	1181	rBV2	527	577	0.00%	0.001%
17	4.977	1204	1209	1210	rBV3	914	749	0.00%	0.001%
18	5.071	1226	1238	1242	rBV3	1373	2170	0.01%	0.004%
19	5.334	1294	1320	1330	rBV2	208072	615932	2.59%	1.062%
20	5.601	1399	1403	1408	rBV3	719	792	0.00%	0.001%
21	5.784	1452	1460	1462	rBV3	2632	2910	0.01%	0.005%
22	5.881	1478	1490	1505	rBV	216009	421379	1.77%	0.727%
23	6.177	1574	1582	1584	rBV4	1716	1823	0.01%	0.003%
24	6.241	1592	1602	1609	rBV6	1502	2881	0.01%	0.005%
25	6.325	1613	1628	1645	rBV	140168	280972	1.18%	0.485%
26	6.505	1675	1684	1697	rVB7	2272	4720	0.02%	0.008%
27	6.624	1719	1721	1729	rVB5	679	593	0.00%	0.001%
28	7.225	1897	1908	1924	rBV	76691	139183	0.59%	0.240%
29	7.363	1943	1951	1962	rBV4	2216	4003	0.02%	0.007%
30	7.456	1969	1980	1995	rBV	69555	124351	0.52%	0.214%
31	7.559	2001	2012	2025	rBV	275147	485046	2.04%	0.837%
32	7.633	2027	2035	2049	rVB	99457	174175	0.73%	0.300%
33	7.765	2071	2076	2081	rBV5	1195	1688	0.01%	0.003%
34	7.845	2092	2101	2114	rBV	53196	91186	0.38%	0.157%

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU060619\
Data File : VU032523.D
Acq On : 07 Jun 2019 02:07
Operator : JC/SP
Sample : K3215-12
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 44 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J7

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

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

35	8.025	2153	2157	2161	rVB5	1063	1001	0.00%	0.002%
36	8.080	2169	2174	2175	rBV2	1918	1636	0.01%	0.003%
37	8.157	2191	2198	2212	rVB5	1495	3262	0.01%	0.006%
38	8.228	2212	2220	2231	rBV2	10267	18024	0.08%	0.031%
39	8.305	2232	2244	2287	rVV	622090	1068838	4.49%	1.844%
40	8.498	2297	2304	2313	rVB7	2502	4259	0.02%	0.007%
41	8.572	2320	2327	2340	rVB	9195	14624	0.06%	0.025%
42	8.665	2352	2356	2366	rVB6	1331	1788	0.01%	0.003%
43	8.771	2385	2389	2391	rBV2	615	556	0.00%	0.001%
44	8.948	2437	2444	2453	rVB5	2021	3186	0.01%	0.005%
45	9.083	2460	2486	2507	rBV3	331444	721143	3.03%	1.244%
46	9.244	2526	2536	2546	rBV	83870	136268	0.57%	0.235%
47	9.369	2562	2575	2590	rBV	263463	492061	2.07%	0.849%
48	9.540	2620	2628	2638	rBV5	16140	37503	0.16%	0.065%
49	9.598	2639	2646	2672	rVB	55434	102646	0.43%	0.177%
50	9.775	2689	2701	2709	rBV	104007	170759	0.72%	0.295%
51	9.894	2731	2738	2748	rBV2	12329	20481	0.09%	0.035%
52	10.160	2809	2821	2835	rBV	39487	66420	0.28%	0.115%
53	10.299	2856	2864	2875	rBV5	8738	16288	0.07%	0.028%
54	10.392	2875	2893	2897	rBV2	106344	194242	0.82%	0.335%
55	10.427	2898	2904	2919	rVB	241448	378160	1.59%	0.652%
56	10.582	2943	2952	2963	rVB	68204	101387	0.43%	0.175%
57	10.678	2963	2982	2999	rBV2	210081	531057	2.23%	0.916%
58	10.768	3001	3010	3023	rVV2	231288	422424	1.78%	0.729%
59	10.842	3024	3033	3044	rVV2	105848	165553	0.70%	0.286%
60	10.913	3044	3055	3064	rVV	820301	1246447	5.24%	2.150%
61	10.964	3064	3071	3092	rVB	194118	318035	1.34%	0.549%
62	11.061	3092	3101	3115	rBV3	39518	71303	0.30%	0.123%
63	11.141	3116	3126	3140	rVB	423309	642502	2.70%	1.108%
64	11.234	3142	3155	3166	rBV	299252	472185	1.99%	0.814%
65	11.318	3171	3181	3197	rVB	712716	1197332	5.03%	2.065%
66	11.402	3197	3207	3218	rBV8	122841	297973	1.25%	0.514%
67	11.472	3218	3229	3239	rBV	4215112	6333852	26.63%	10.925%
68	11.530	3239	3247	3254	rBV	841851	1172222	4.93%	2.022%
69	11.659	3282	3287	3297	rVB2	40299	55120	0.23%	0.095%
70	11.723	3298	3307	3314	rBV	189427	291553	1.23%	0.503%
71	11.855	3338	3348	3359	rBV2	364686	623789	2.62%	1.076%

LSC Area Percent Report

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Acq On : 07 Jun 2019 02:07
Operator : JC/SP
Sample : K3215-12
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 44 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J7

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

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

72	11.916	3360	3367	3378	rVB	144564	226670	0.95%	0.391%
73	11.977	3380	3386	3394	rBV4	21785	33662	0.14%	0.058%
74	12.141	3425	3437	3445	rBV	1144250	1880952	7.91%	3.244%
75	12.250	3464	3471	3486	rVB3	89595	163231	0.69%	0.282%
76	12.405	3513	3519	3538	rVB3	53813	113455	0.48%	0.196%
77	12.508	3539	3551	3559	rBV2	107061	218404	0.92%	0.377%
78	12.620	3577	3586	3595	rBV5	61453	124227	0.52%	0.214%
79	12.691	3599	3608	3621	rVB2	436570	717643	3.02%	1.238%
80	12.781	3622	3636	3653	rBV	344019	632073	2.66%	1.090%
81	13.000	3697	3704	3713	rBV2	86416	135921	0.57%	0.234%
82	13.080	3715	3729	3749	rVV	15385524	23780984	100.00%	41.018%
83	13.180	3749	3760	3785	rVV	2905736	4633297	19.48%	7.992%
84	13.292	3788	3795	3803	rVB2	97861	146367	0.62%	0.252%
85	13.607	3884	3893	3896	rBV3	85013	118446	0.50%	0.204%
86	13.646	3897	3905	3925	rVV	636864	1175859	4.94%	2.028%
87	13.739	3926	3934	3951	rVB	153406	279459	1.18%	0.482%
88	13.977	4002	4008	4017	rBV4	39536	61528	0.26%	0.106%
89	14.035	4018	4026	4031	rBV5	106933	192272	0.81%	0.332%
90	14.112	4045	4050	4065	rVB2	31811	48687	0.20%	0.084%
91	14.253	4086	4094	4103	rVB2	145725	213306	0.90%	0.368%
92	14.308	4105	4111	4117	rBV4	25664	34911	0.15%	0.060%
93	14.427	4139	4148	4165	rVB2	207010	320093	1.35%	0.552%
94	14.614	4200	4206	4214	rBV3	16883	23255	0.10%	0.040%
95	14.835	4268	4275	4282	rBV	71654	103745	0.44%	0.179%
96	15.012	4322	4330	4336	rBV4	37404	69468	0.29%	0.120%
97	15.308	4414	4422	4428	rBV	23810	38081	0.16%	0.066%
98	15.755	4554	4561	4573	rBV4	18091	30135	0.13%	0.052%
99	16.048	4643	4652	4663	rBV10	11567	28136	0.12%	0.049%
100	16.671	4839	4846	4858	rBV4	22108	35675	0.15%	0.062%

Sum of corrected areas: 57976648

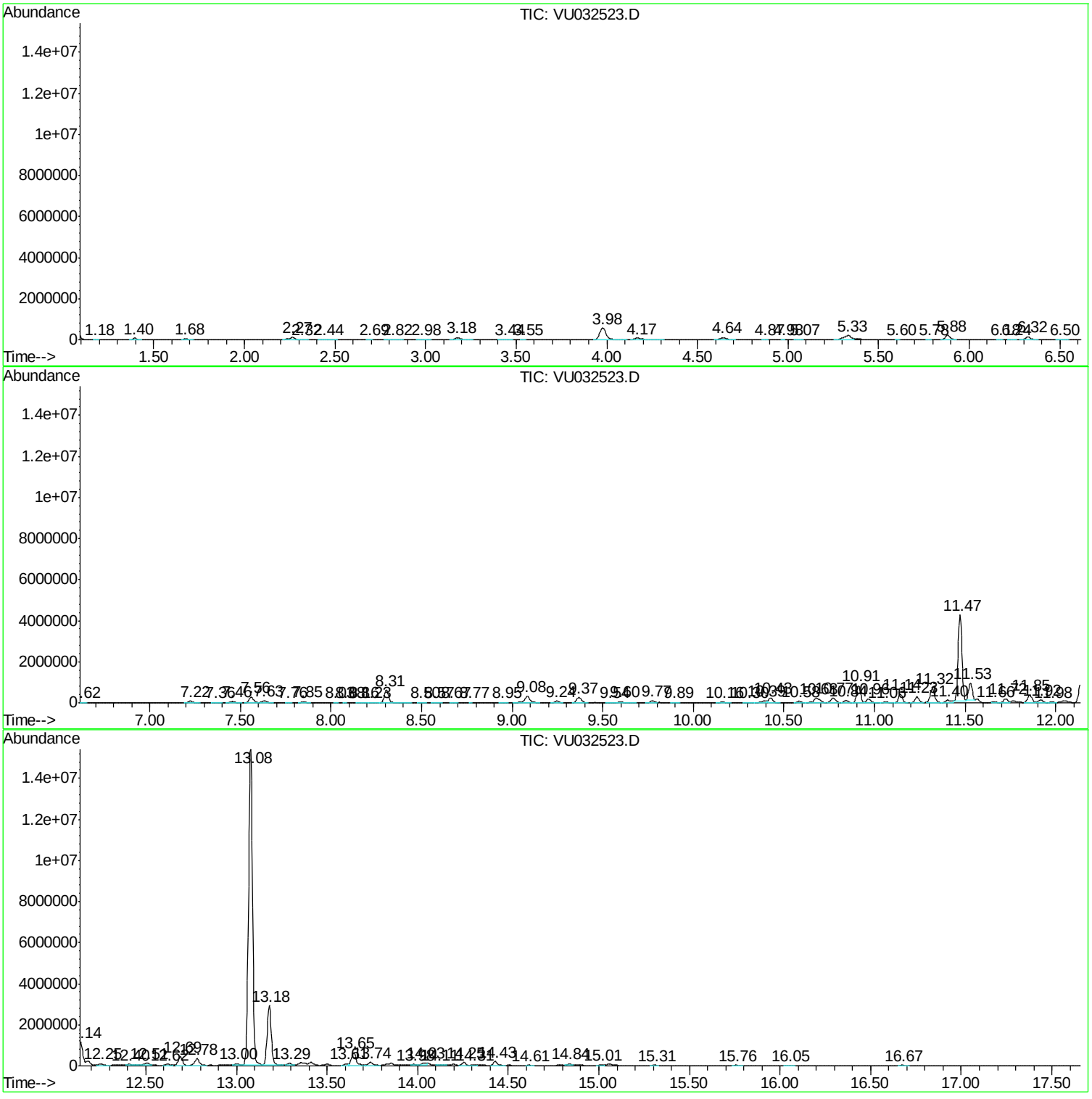
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032523.D
Acq On : 07 Jun 2019 02:07
Operator : JC/SP
Sample : K3215-12
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 44 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J7

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

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



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032523.D
Acq On : 07 Jun 2019 02:07
Operator : JC/SP
Sample : K3215-12
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 44 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J7

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

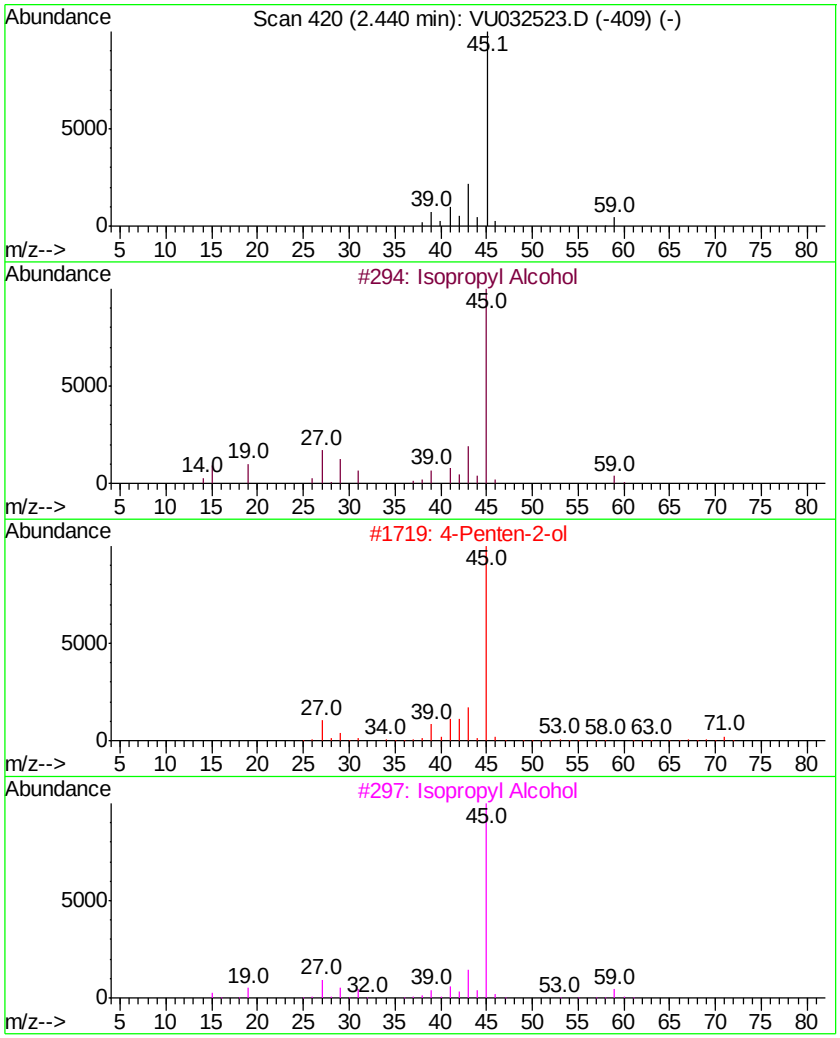
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

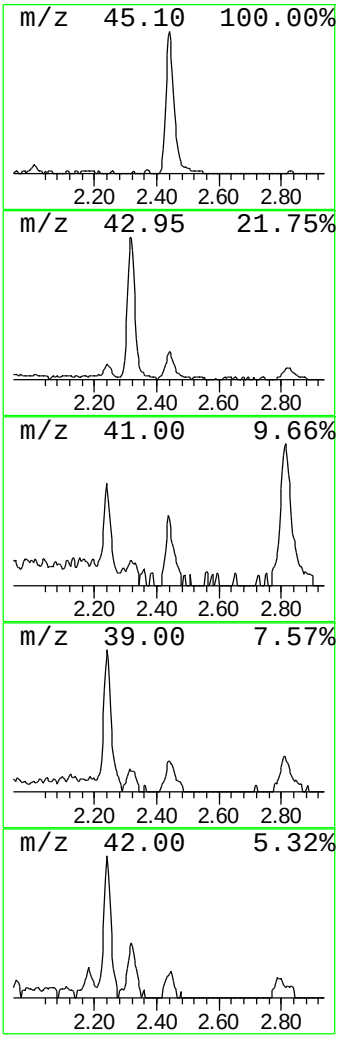
****

Peak Number 1 Isopropyl Alcohol Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.44	2.61 ug/L	21990	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Isopropyl Alcohol	60	C3H8O	000067-63-0	74
2	4-Penten-2-ol	86	C5H10O	000625-31-0	9
3	Isopropyl Alcohol	60	C3H8O	000067-63-0	9
4	Formamide	45	CH3NO	000075-12-7	5
5	Formamide	45	CH3NO	000075-12-7	4





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032523.D
Acq On : 07 Jun 2019 02:07
Operator : JC/SP
Sample : K3215-12
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 44 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J7

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

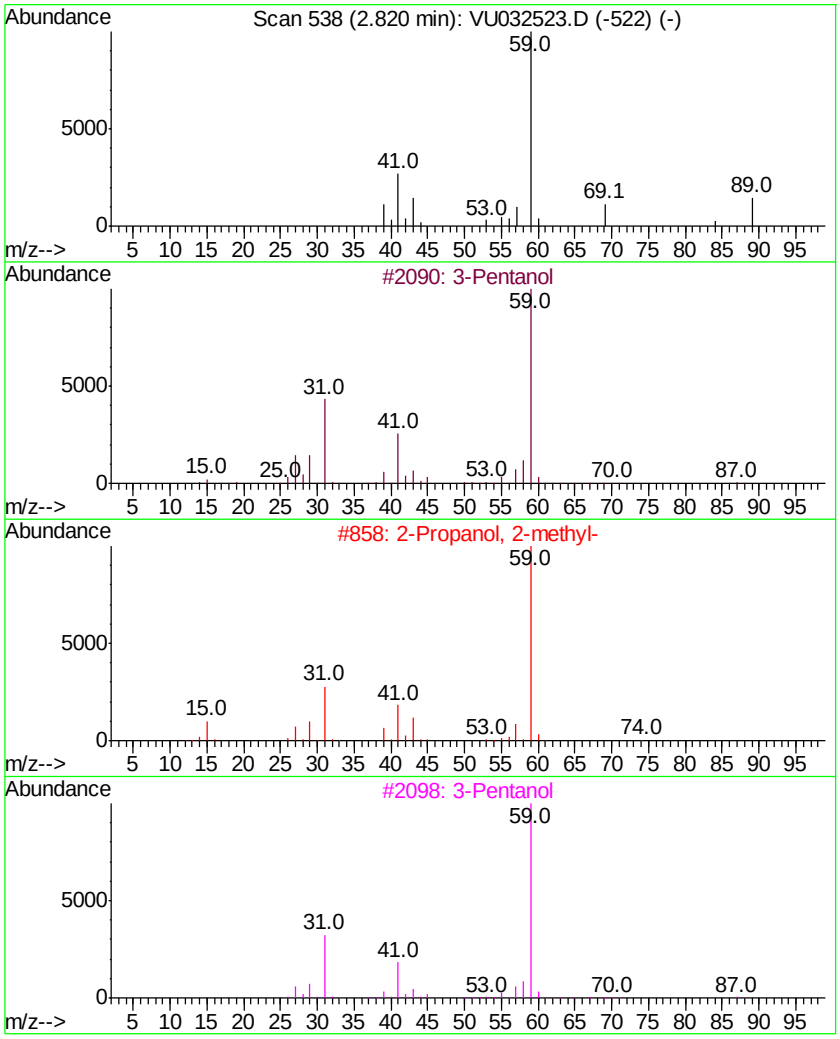
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

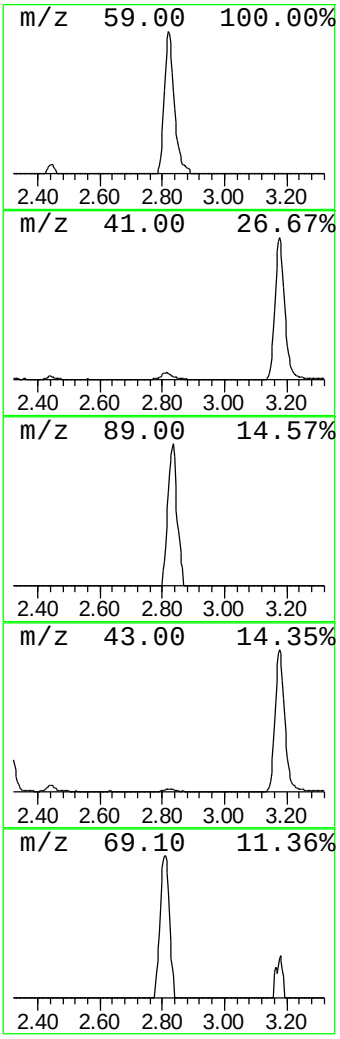
****

Peak Number 2 unknown-01 Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.82	2.96 ug/L	24917	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Pentanol	88	C5H12O	000584-02-1	45
2	2-Propanol, 2-methyl-	74	C4H10O	000075-65-0	39
3	3-Pentanol	88	C5H12O	000584-02-1	9
4	1,2-Butanediol	90	C4H10O2	000584-03-2	9
5	Propane, 2-ethoxy-2-methyl-	102	C6H14O	000637-92-3	9





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032523.D
Acq On : 07 Jun 2019 02:07
Operator : JC/SP
Sample : K3215-12
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 44 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J7

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

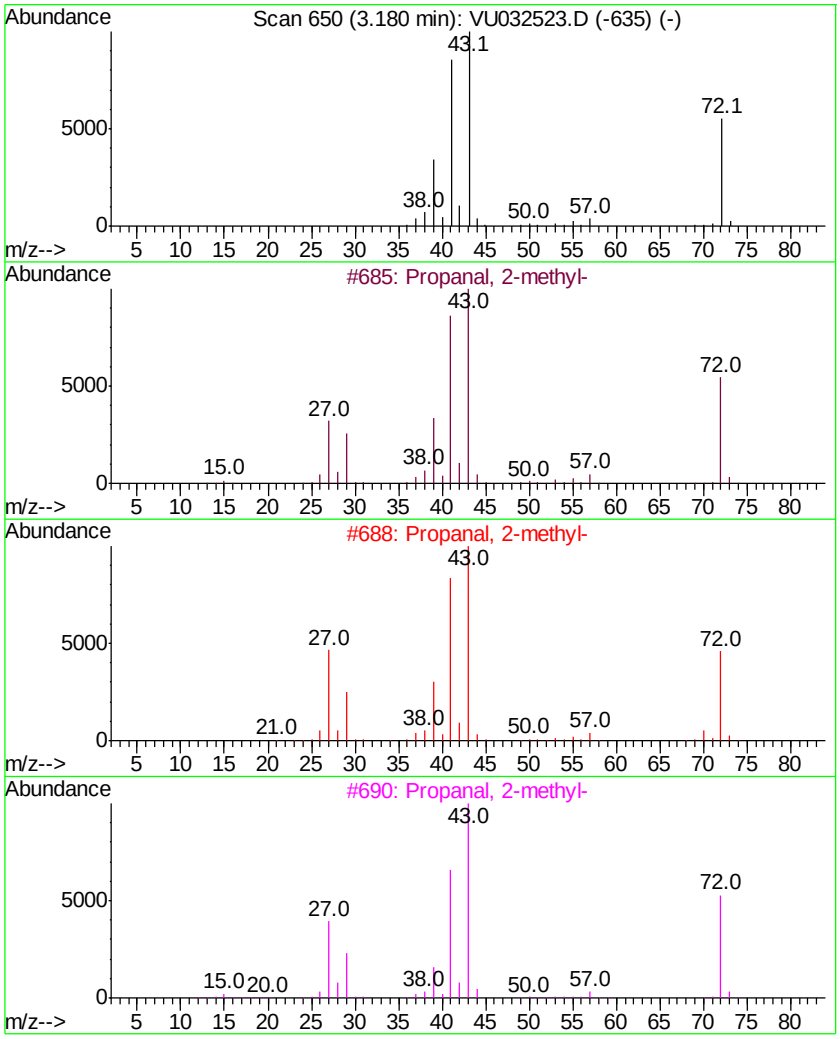
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

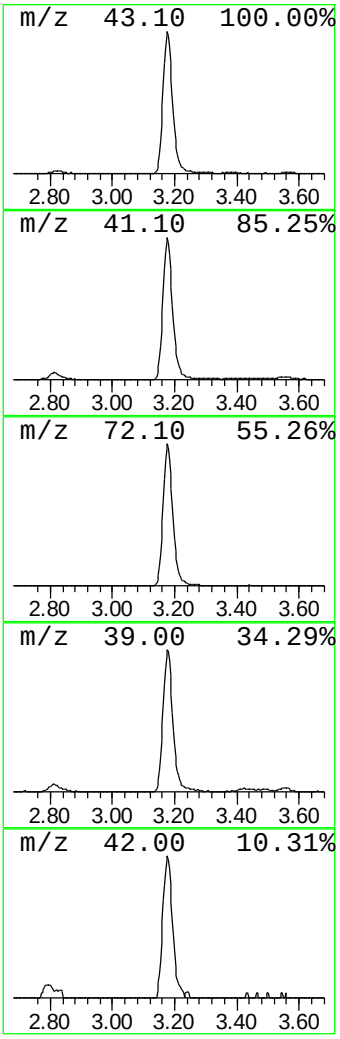
****

Peak Number 3 Propanal, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.18	25.78 ug/L	217254	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propanal, 2-methyl-	72	C4H8O	000078-84-2	91
2	Propanal, 2-methyl-	72	C4H8O	000078-84-2	91
3	Propanal, 2-methyl-	72	C4H8O	000078-84-2	78
4	1-Propene, 3-methoxy-	72	C4H8O	000627-40-7	53
5	Isobutylene epoxide	72	C4H8O	000558-30-5	53





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU060619\
Data File : VU032523.D
Acq On : 07 Jun 2019 02:07
Operator : JC/SP
Sample : K3215-12
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 44 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J7

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

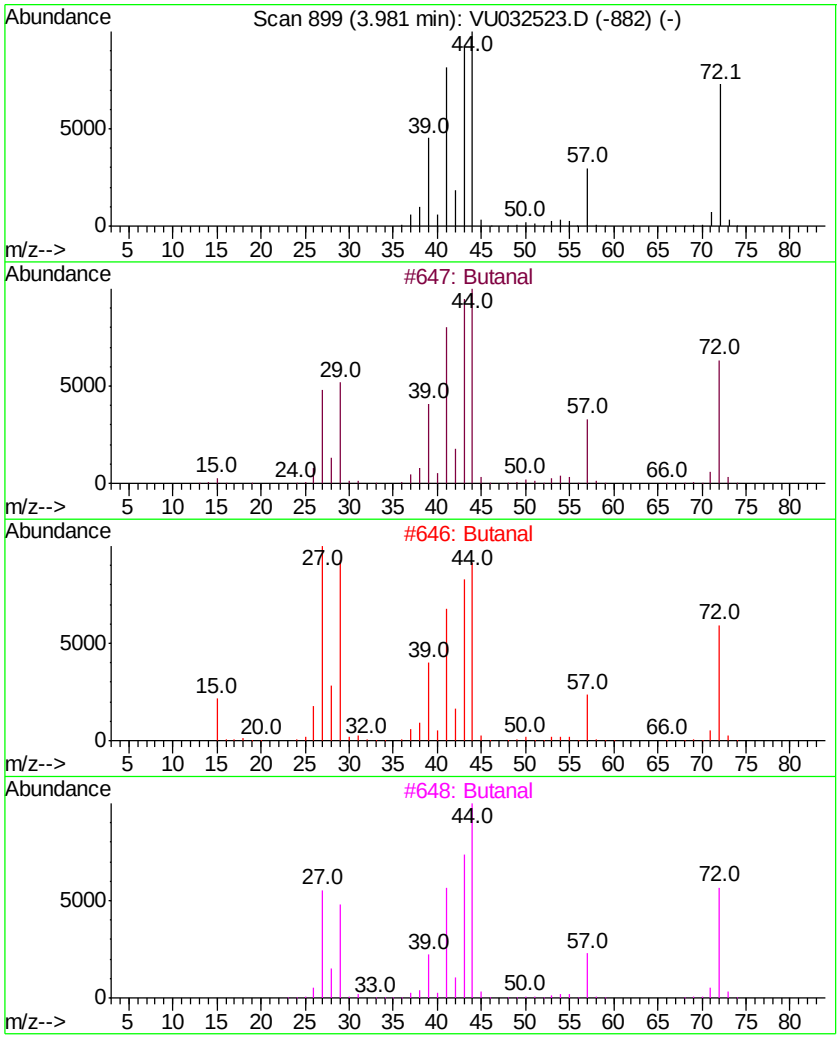
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

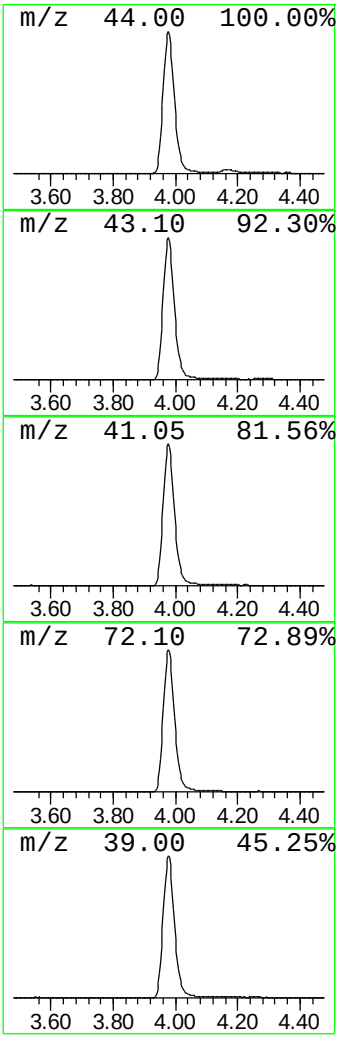
****

Peak Number 4 Butanal Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.98	171.79 ug/L	1447770	1,4-Difluorobenzene	5.88

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





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032523.D
Acq On : 07 Jun 2019 02:07
Operator : JC/SP
Sample : K3215-12
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 44 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J7

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

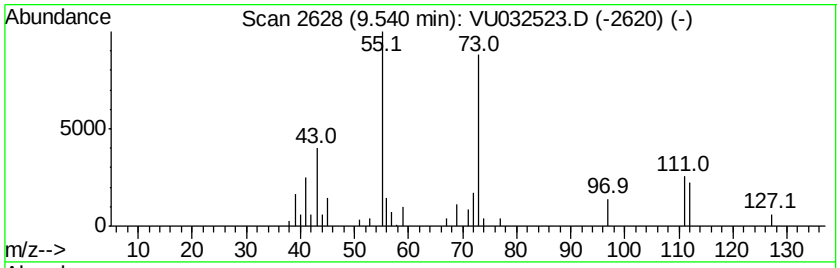
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

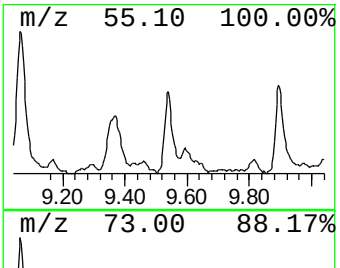
****

Peak Number 6 unknown-02 Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.54	2.60 ug/L	37503	Chlorobenzene-d5	9.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Hexanol, 2-methyl-	116	C7H16O	000617-29-8	35
2	3-Heptene, 3-methyl-	112	C8H16	007300-03-0	35
3	4-Heptanol	116	C7H16O	000589-55-9	32
4	3-Ethyl-3-hexene	112	C8H16	016789-51-8	25
5	3-Hexanol, 2-methyl-	116	C7H16O	000617-29-8	25





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032523.D
Acq On : 07 Jun 2019 02:07
Operator : JC/SP
Sample : K3215-12
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 44 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J7

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

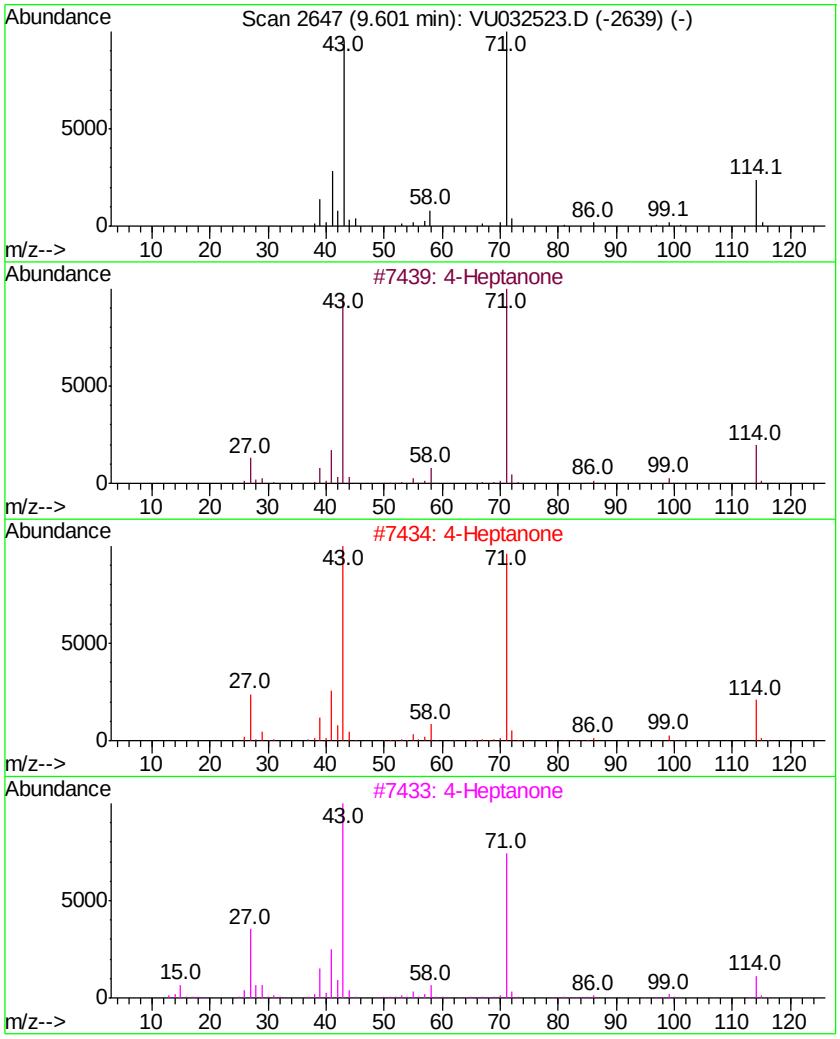
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

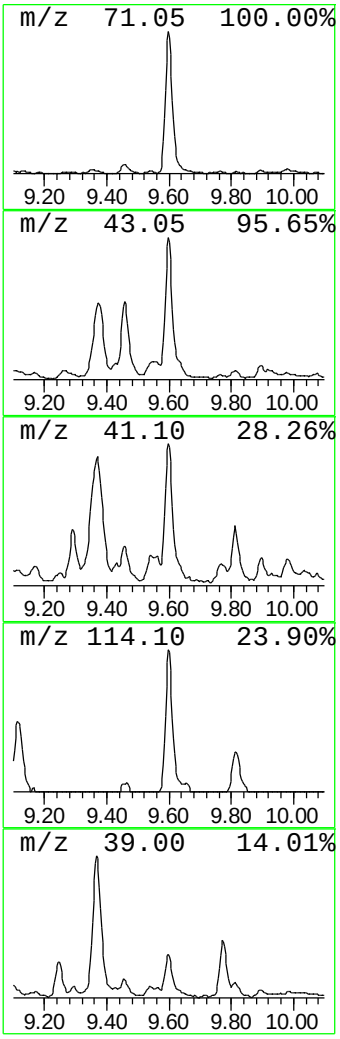
****

Peak Number 7 4-Heptanone Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.60	7.12 ug/L	102646	Chlorobenzene-d5	9.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Heptanone	114	C7H14O	000123-19-3	91
2	4-Heptanone	114	C7H14O	000123-19-3	87
3	4-Heptanone	114	C7H14O	000123-19-3	78
4	4-Heptanone	114	C7H14O	000123-19-3	74
5	4-Heptanone	114	C7H14O	000123-19-3	72





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Acq On : 07 Jun 2019 02:07
Operator : JC/SP
Sample : K3215-12
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 44 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J7

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

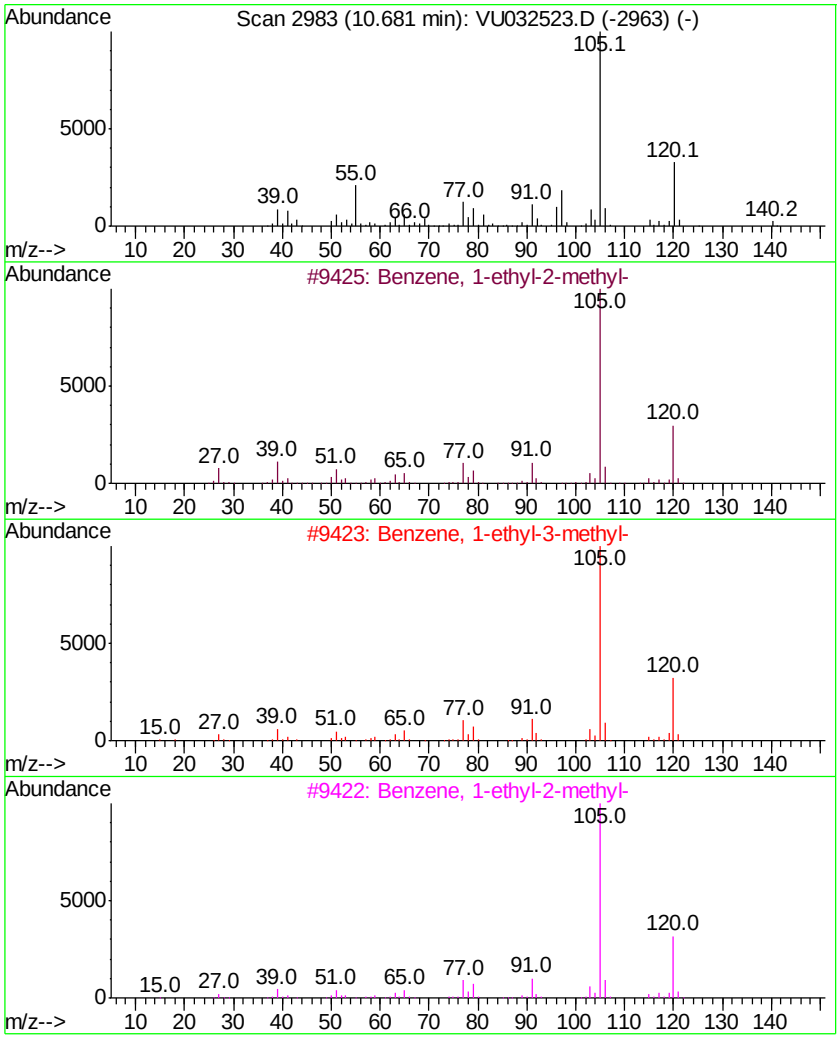
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

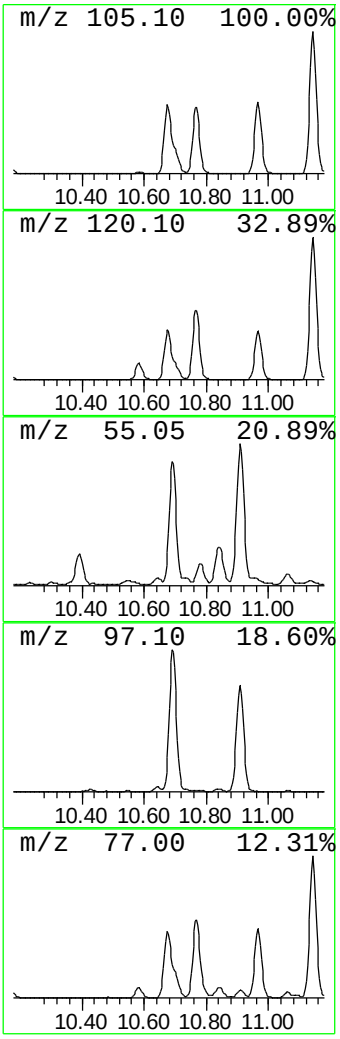
****

Peak Number 8 Benzene, 1-ethyl-2-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.68	4.19 ug/L	531057	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-2-methyl-	120	C9H12	000611-14-3	94
4	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	93
5	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	81





Library Search Compound Report

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Data File : VU032523.D
Acq On : 07 Jun 2019 02:07
Operator : JC/SP
Sample : K3215-12
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 44 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J7

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

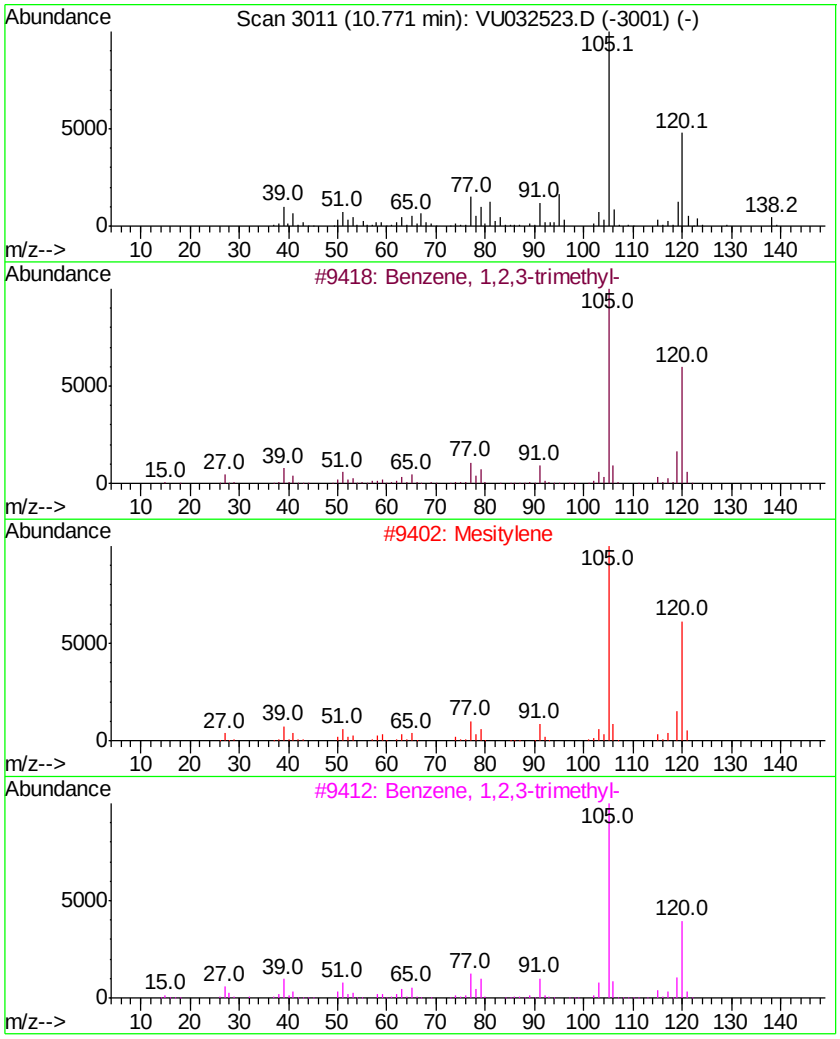
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

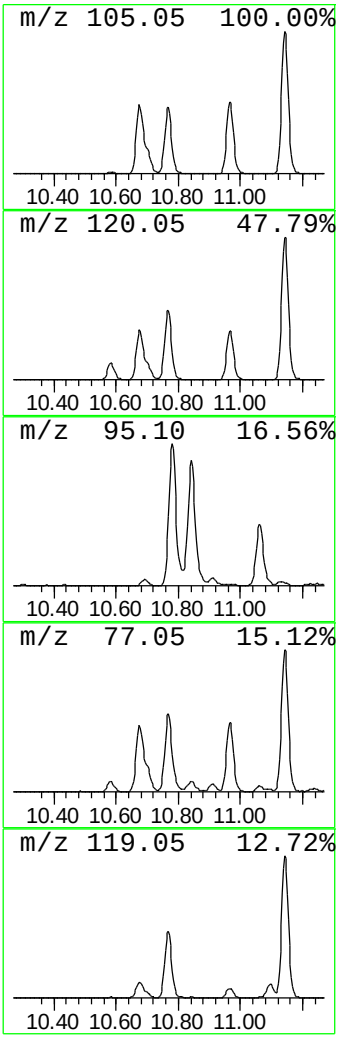
****

Peak Number 9 Benzene, 1,2,3-trimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.77	3.33 ug/L	422424	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	95
2	Mesitylene	120	C9H12	000108-67-8	95
3	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	94
4	Mesitylene	120	C9H12	000108-67-8	94
5	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	93





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Acq On : 07 Jun 2019 02:07
Operator : JC/SP
Sample : K3215-12
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 44 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J7

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

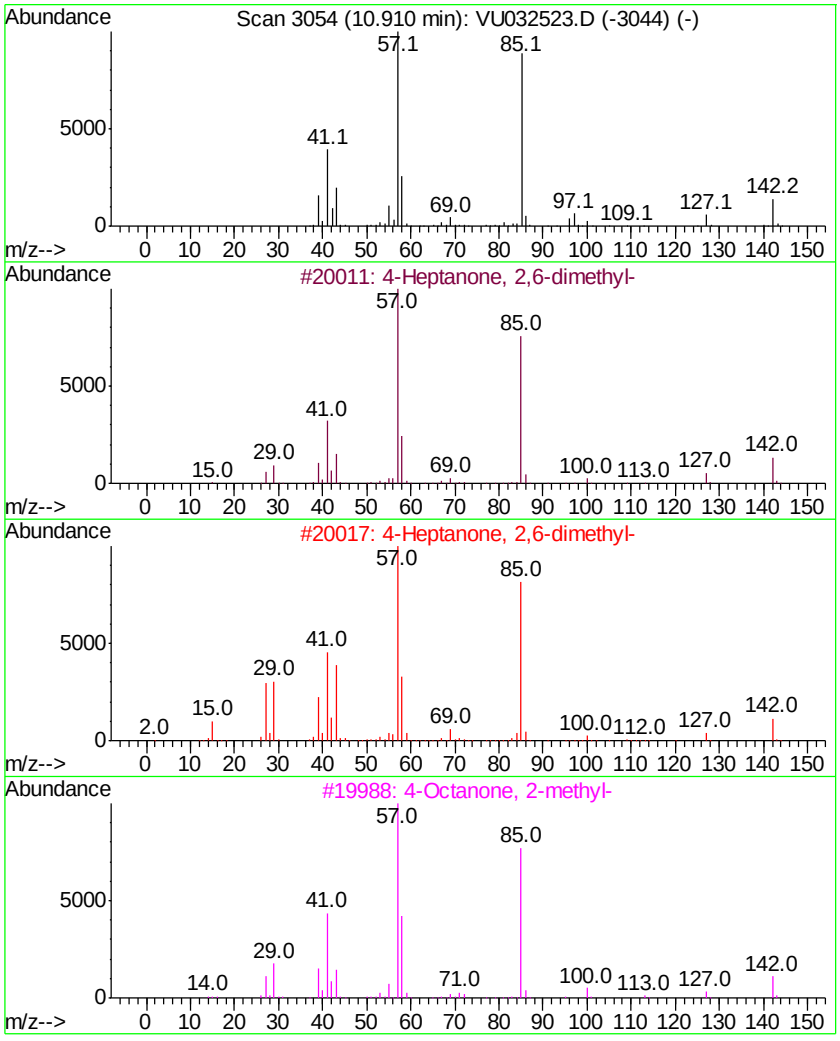
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

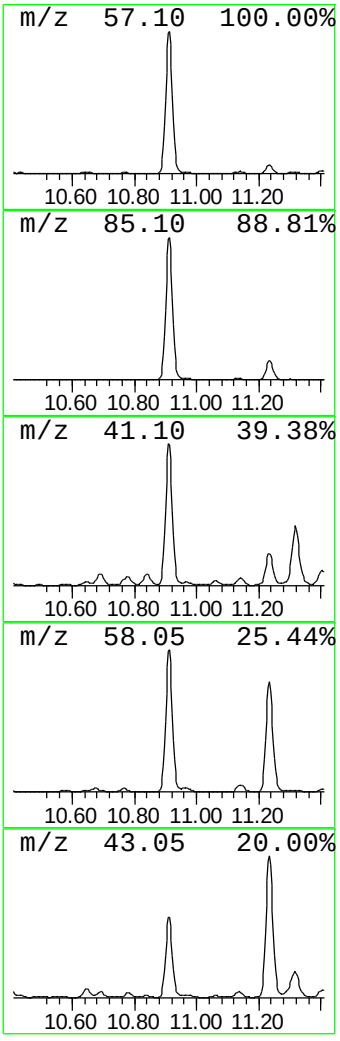
****

Peak Number 10 4-Heptanone, 2,6-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.91	9.84 ug/L	1246450	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Heptanone, 2,6-dimethyl-	142	C9H18O	000108-83-8	90
2	4-Heptanone, 2,6-dimethyl-	142	C9H18O	000108-83-8	80
3	4-Octanone, 2-methyl-	142	C9H18O	007492-38-8	72
4	5-Nonanone	142	C9H18O	000502-56-7	59
5	5-Nonanone	142	C9H18O	000502-56-7	59





Library Search Compound Report

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Data File : VU032523.D
Acq On : 07 Jun 2019 02:07
Operator : JC/SP
Sample : K3215-12
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 44 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J7

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

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

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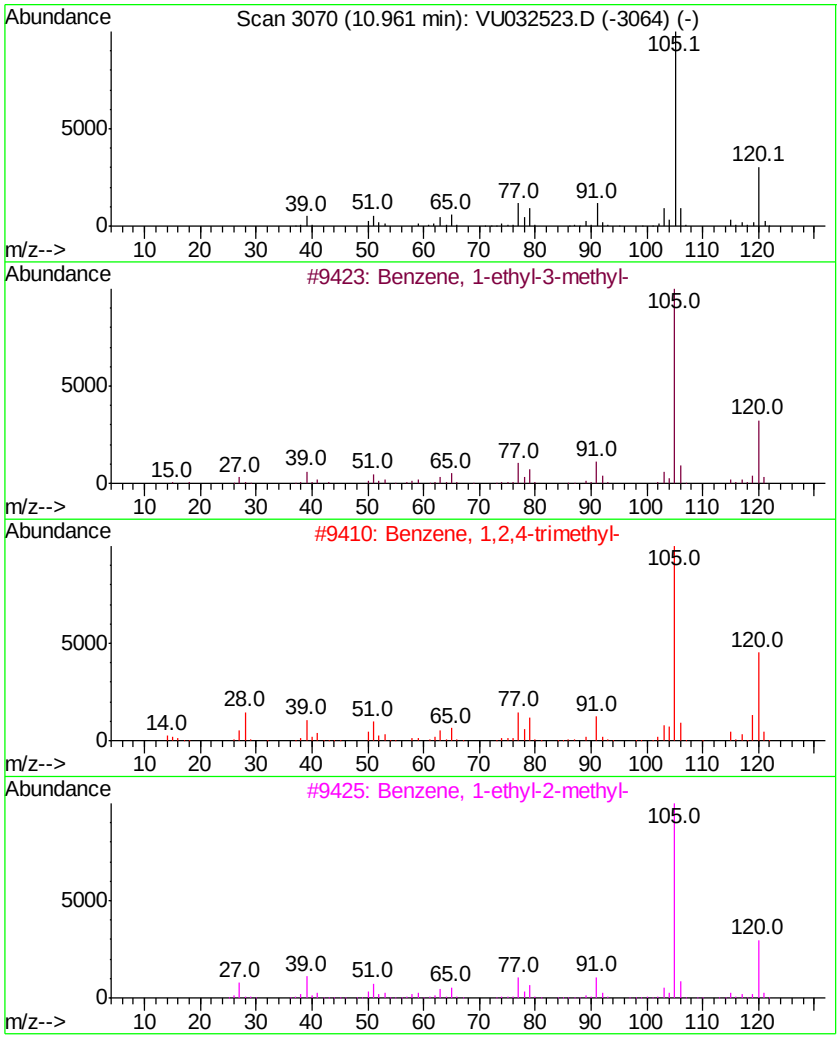
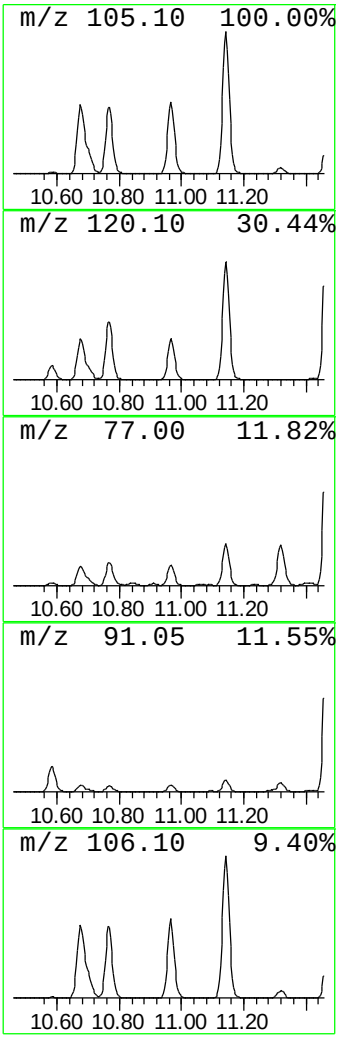
Peak Number 11 Benzene, 1-ethyl-3-methyl- Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.96	2.51 ug/L	318035	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	91
2	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	91
3	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	91
4	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	91
5	Mesitylene	120	C9H12	000108-67-8	91





Library Search Compound Report

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Data File : VU032523.D
Acq On : 07 Jun 2019 02:07
Operator : JC/SP
Sample : K3215-12
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 44 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J7

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

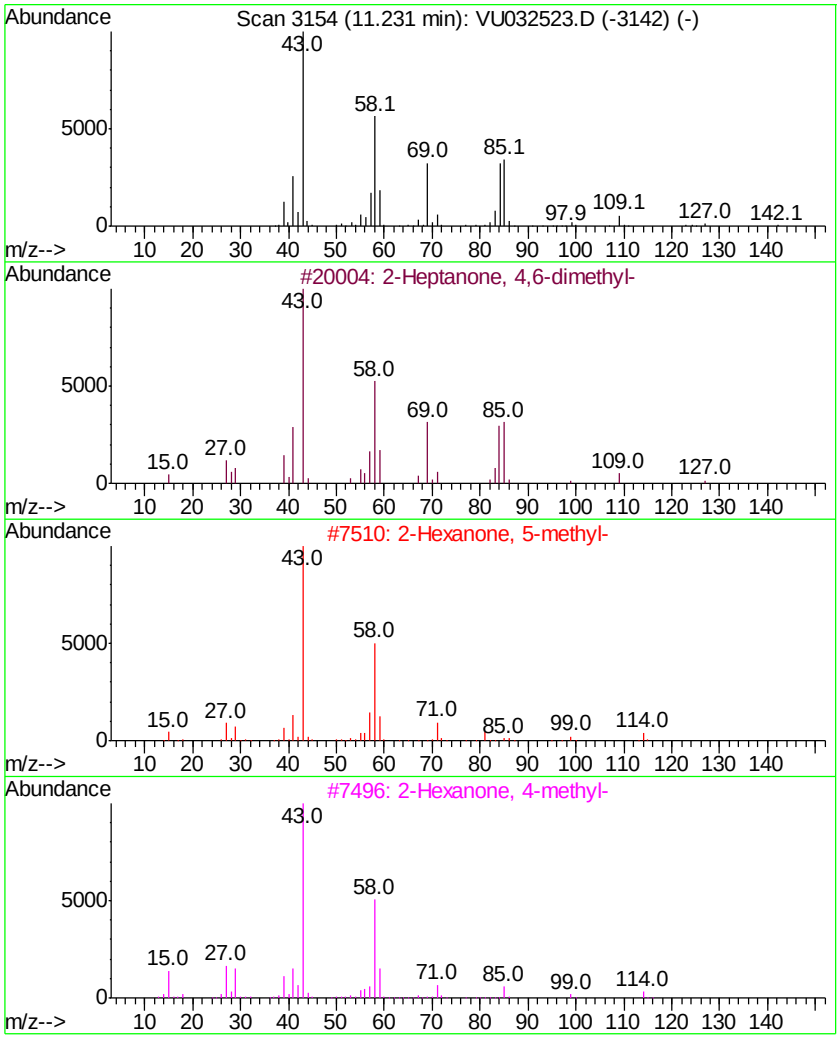
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

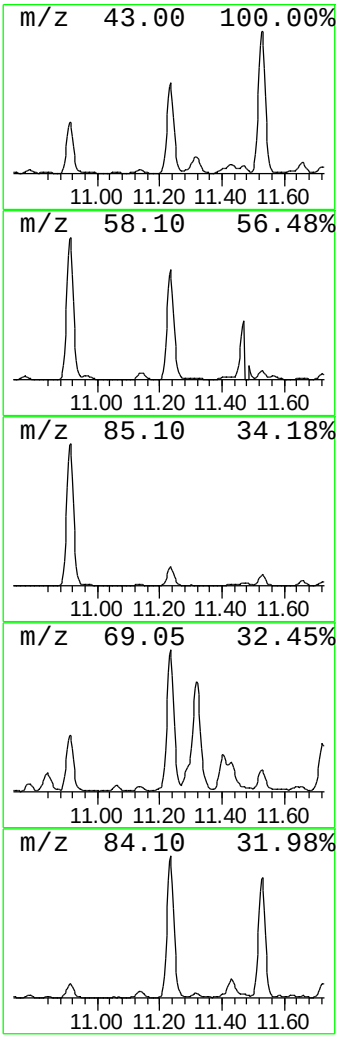
****

Peak Number 13 2-Heptanone, 4,6-dimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.23	3.73 ug/L	472185	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Heptanone, 4,6-dimethyl-	142	C9H18O	019549-80-5	90
2	2-Hexanone, 5-methyl-	114	C7H14O	000110-12-3	50
3	2-Hexanone, 4-methyl-	114	C7H14O	000105-42-0	47
4	Hexane, 3-ethyl-	114	C8H18	000619-99-8	43
5	Hexane, 3-ethyl-	114	C8H18	000619-99-8	43





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Data File : VU032523.D
Acq On : 07 Jun 2019 02:07
Operator : JC/SP
Sample : K3215-12
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 44 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J7

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

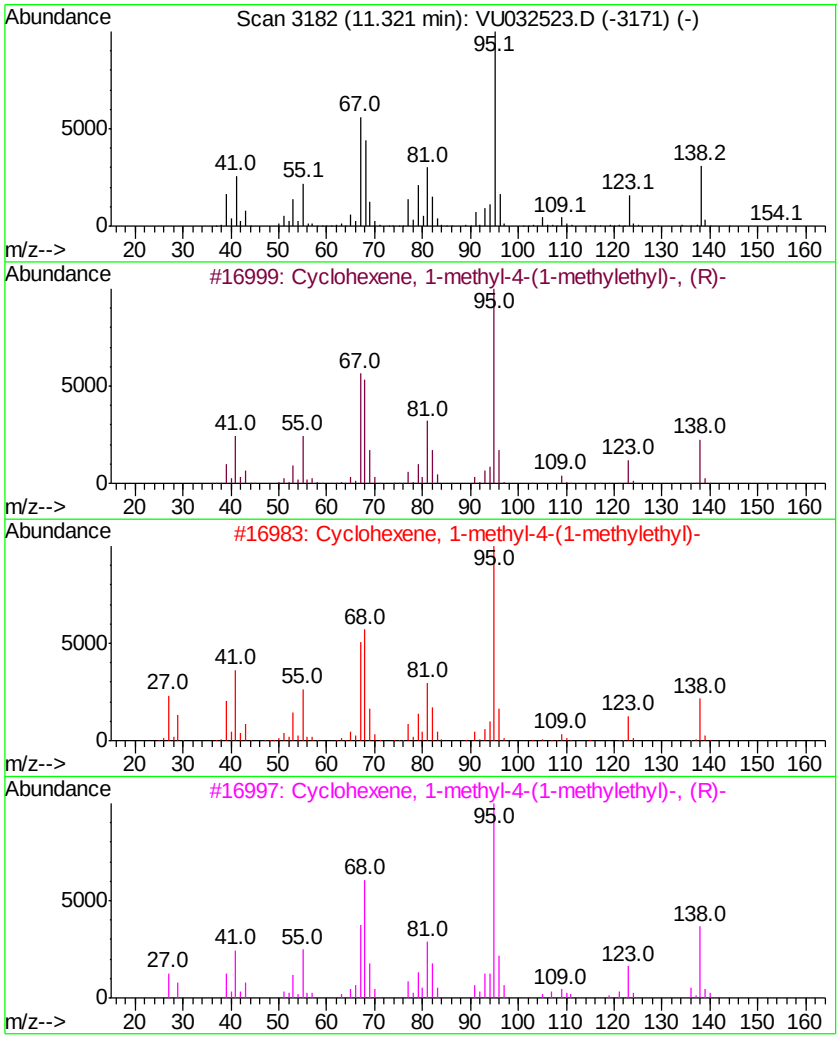
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

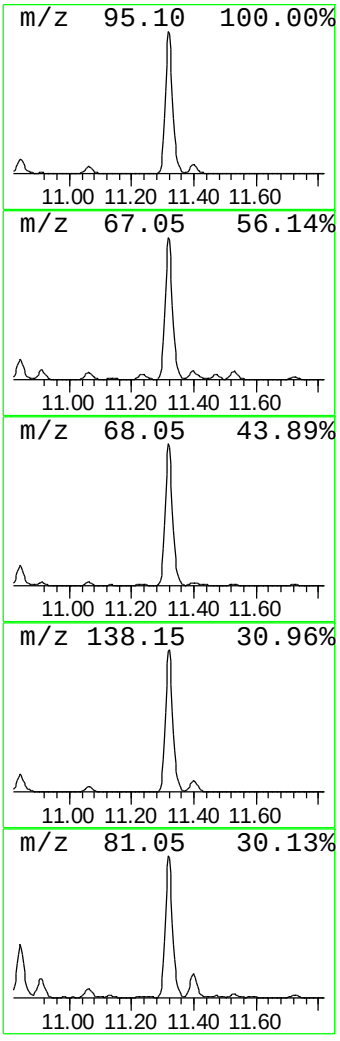
****

Peak Number 14 Cyclohexene, 1-methyl-4-(1-... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.32	9.45 ug/L	1197330	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexene, 1-methyl-4-(1-methy...	138	C10H18	001195-31-9	95
2	Cyclohexene, 1-methyl-4-(1-methy...	138	C10H18	005502-88-5	93
3	Cyclohexene, 1-methyl-4-(1-methy...	138	C10H18	001195-31-9	91
4	Cyclohexene, 1-methyl-4-(1-methy...	138	C10H18	005502-88-5	90
5	Cyclohexene, 1-methyl-4-(1-methy...	138	C10H18	005502-88-5	81





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Data File : VU032523.D
Acq On : 07 Jun 2019 02:07
Operator : JC/SP
Sample : K3215-12
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 44 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J7

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

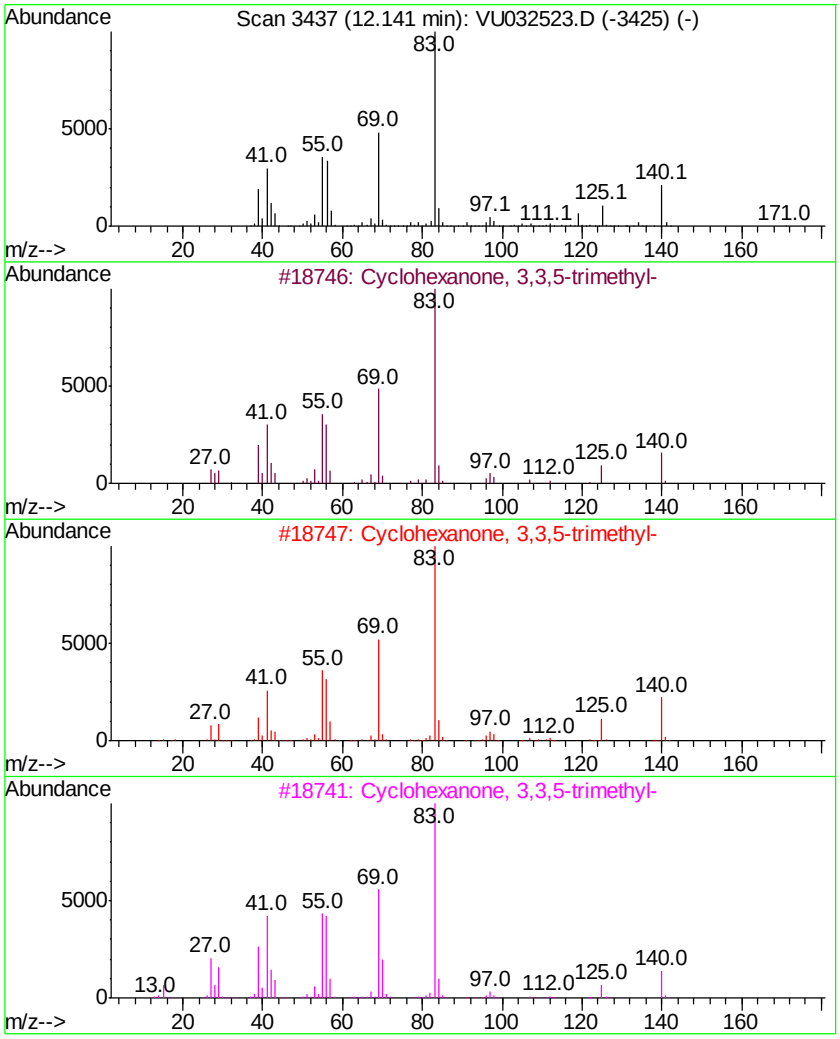
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

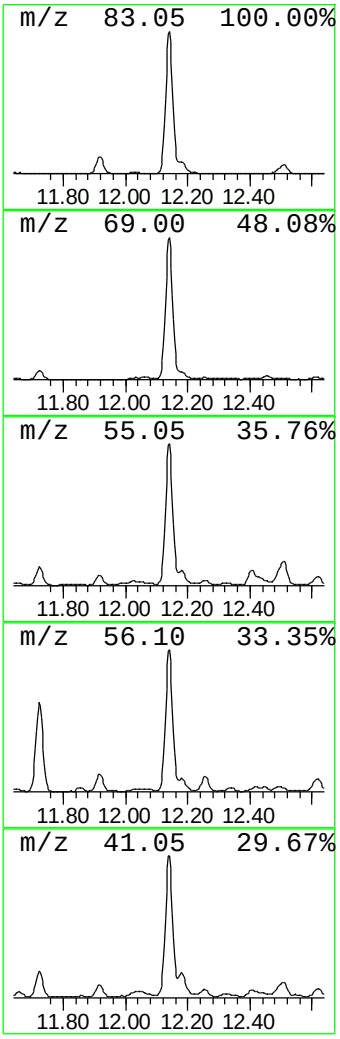
****

Peak Number 15 Cyclohexanone, 3,3,5-trimet... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.14	14.85 ug/L	1880950	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexanone, 3,3,5-trimethyl-	140	C9H16O	000873-94-9	97
2	Cyclohexanone, 3,3,5-trimethyl-	140	C9H16O	000873-94-9	96
3	Cyclohexanone, 3,3,5-trimethyl-	140	C9H16O	000873-94-9	91
4	Cyclohexanone, 3,3,5-trimethyl-	140	C9H16O	000873-94-9	86
5	1,3-Cyclohexanedione, 5,5-dimethyl-	140	C8H12O2	000126-81-8	47





Library Search Compound Report

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Operator : JC/SP
Sample : K3215-12
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 44 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J7

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

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

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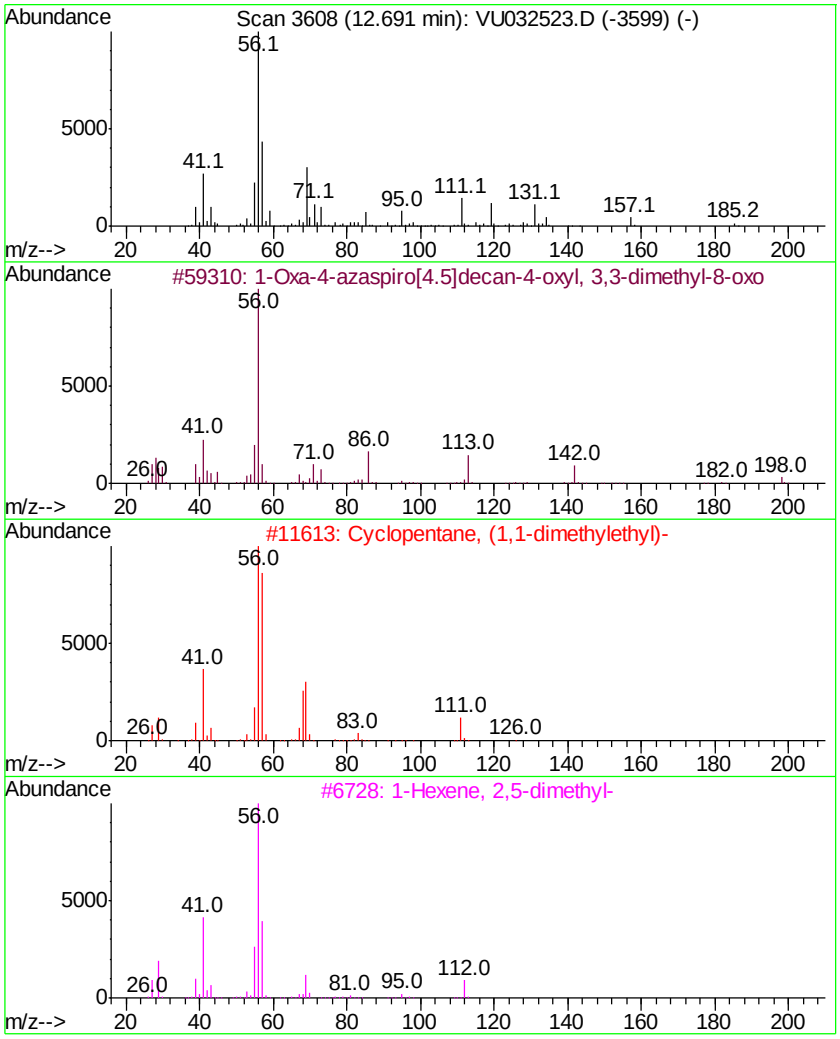
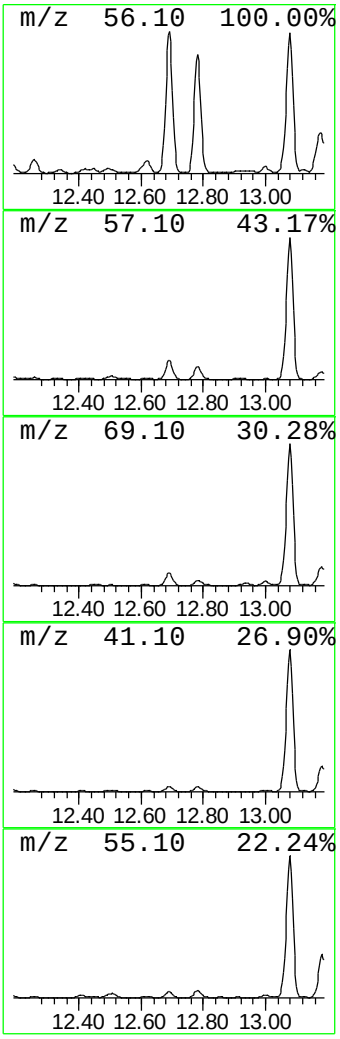
Peak Number 16 1-Oxa-4-azaspiro[4.5]decan-... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.69	5.67 ug/L	717643	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Oxa-4-azaspiro[4.5]decan-4-oxy...	198	C10H16NO3	1000115-84-0	50
2	Cyclopentane, (1,1-dimethylethyl)-	126	C9H18	003875-52-3	47
3	1-Hexene, 2,5-dimethyl-	112	C8H16	006975-92-4	43
4	1-Hexene, 5-methyl-	98	C7H14	003524-73-0	38
5	3,4,5-Trimethyldihydrofuran-2-one	128	C7H12O2	1000194-05-2	37





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Operator : JC/SP
Sample : K3215-12
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 44 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J7

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

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

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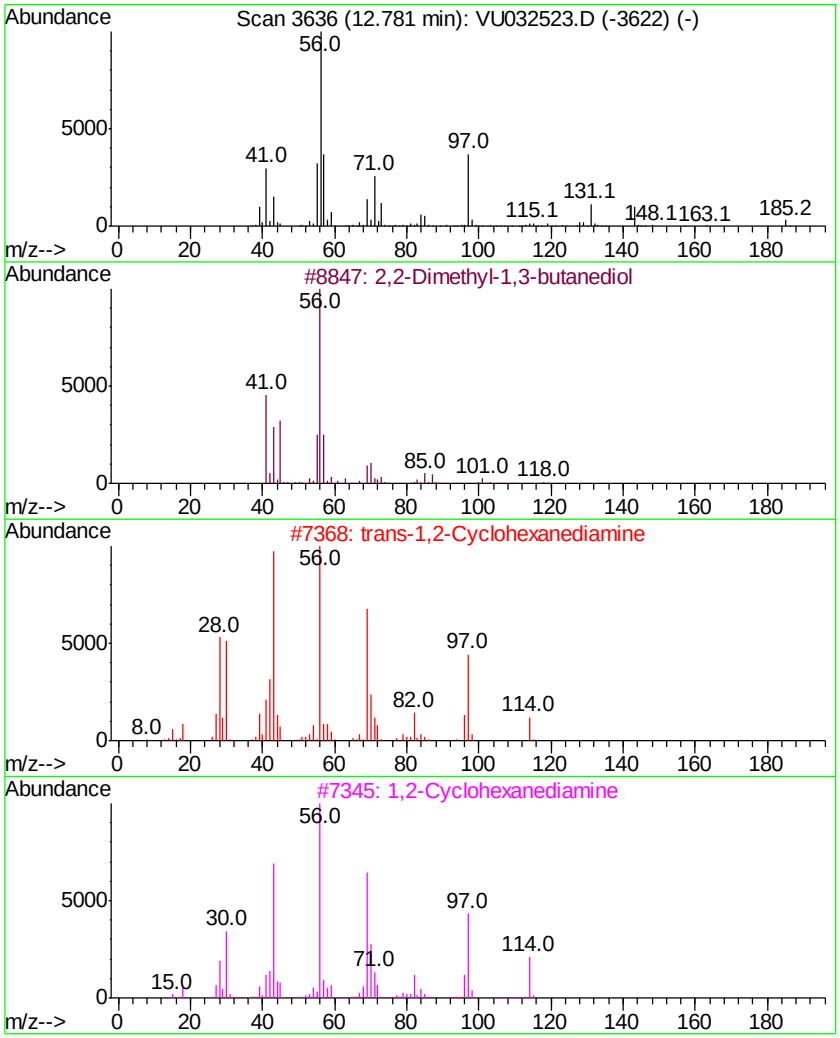
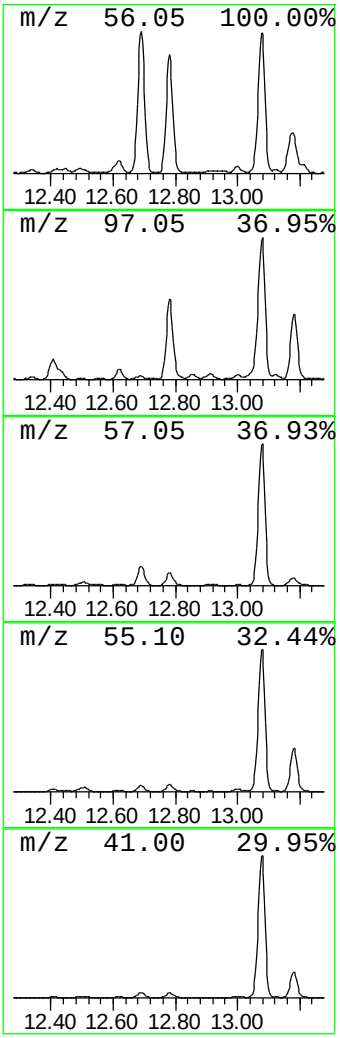
Peak Number 17 unknown-03 Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.78	4.99 ug/L	632073	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,2-Dimethyl-1,3-butanediol	118	C6H14O2	000076-35-7	37
2	trans-1,2-Cyclohexanediamine	114	C6H14N2	001121-22-8	33
3	1,2-Cyclohexanediamine	114	C6H14N2	000694-83-7	33
4	1-Hexene, 2,5-dimethyl-	112	C8H16	006975-92-4	32
5	Cyclopentanone, 2,2-dimethyl-	112	C7H12O	004541-32-6	25





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Operator : JC/SP
Sample : K3215-12
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 44 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J7

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

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

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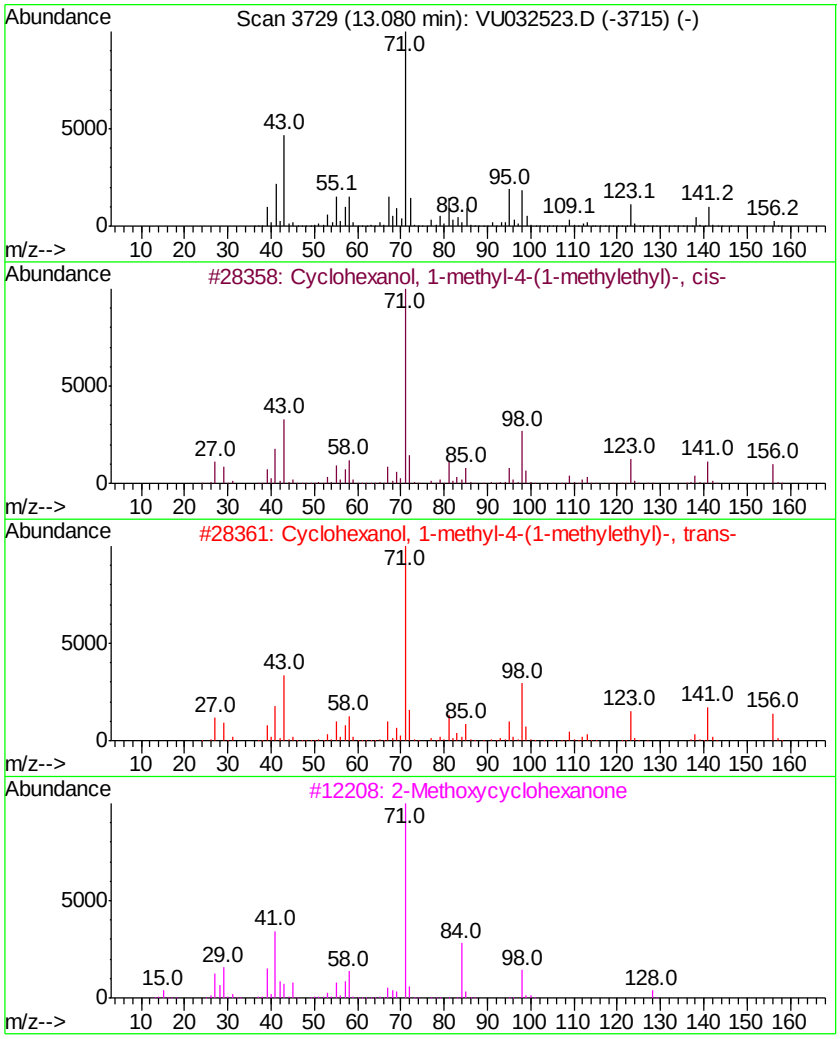
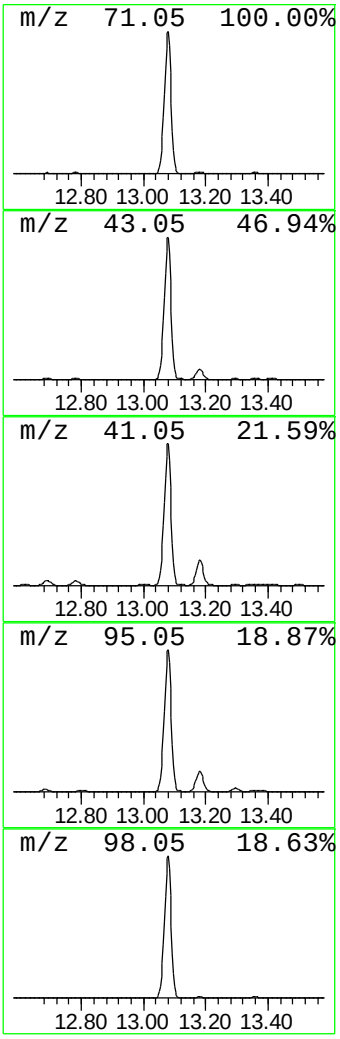
Peak Number 18 Cyclohexanol, 1-methyl-4-(1... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.08	187.73 ug/L	23781000	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexanol, 1-methyl-4-(1-meth...	156	C10H20O	003901-95-9	87
2	Cyclohexanol, 1-methyl-4-(1-meth...	156	C10H20O	003901-93-7	50
3	2-Methoxycyclohexanone	128	C7H12O2	007429-44-9	49
4	2,6-Octadiene-4,5-diol	142	C8H14O2	004486-59-3	47
5	2-Hexen-1-ol, 3-methyl-, (E)-	114	C7H14O	030801-96-8	47





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Data File : VU032523.D
Acq On : 07 Jun 2019 02:07
Operator : JC/SP
Sample : K3215-12
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 44 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J7

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

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

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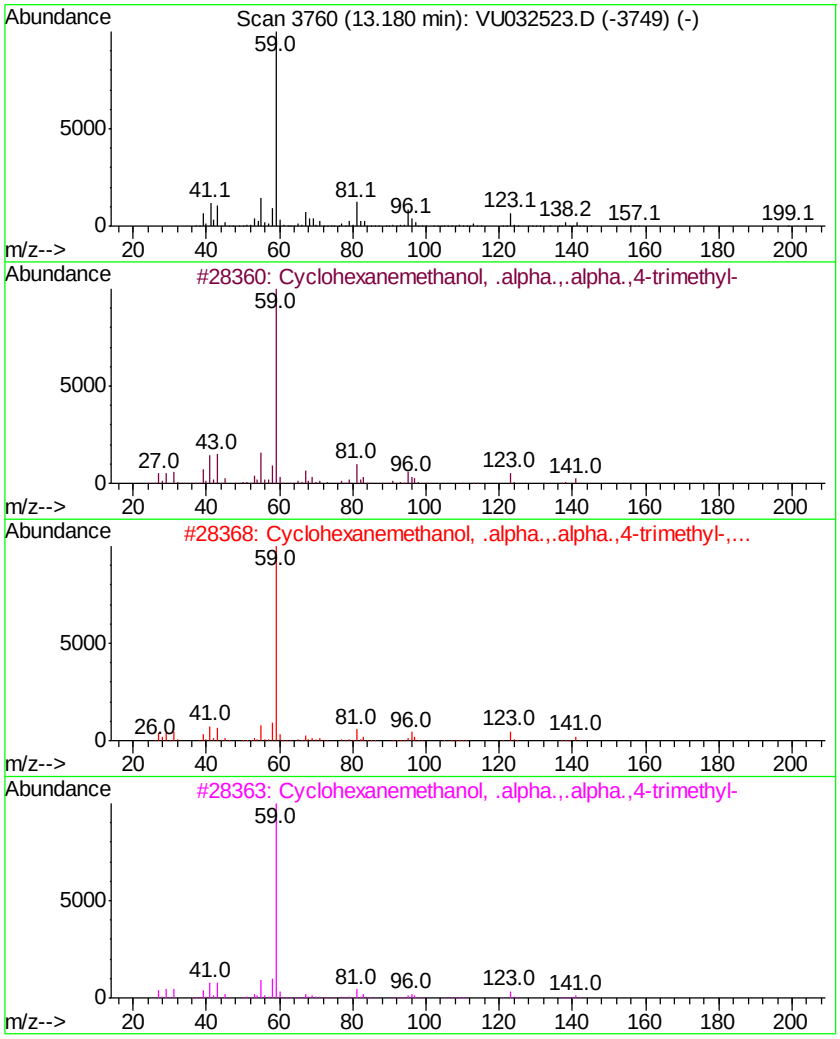
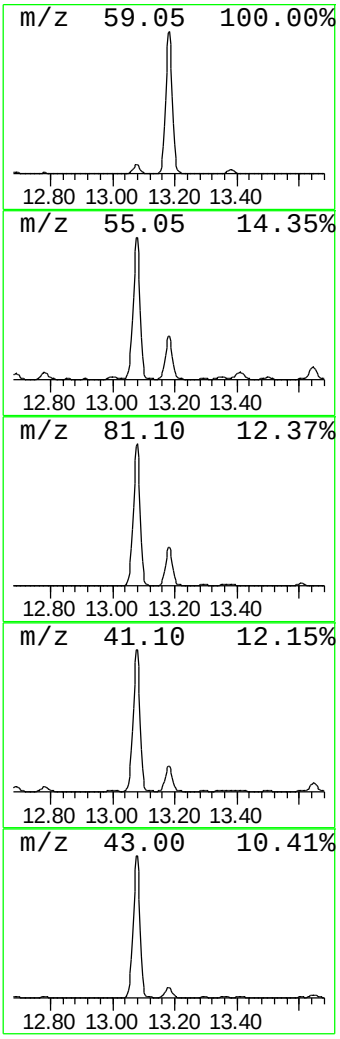
Peak Number 19 Cyclohexanemethanol, .alpha... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.18	36.58 ug/L	4633300	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexanemethanol, .alpha.,.al...	156	C10H20O	000498-81-7	83
2	Cyclohexanemethanol, .alpha.,.al...	156	C10H20O	007322-63-6	78
3	Cyclohexanemethanol, .alpha.,.al...	156	C10H20O	000498-81-7	78
4	Cyclohexanemethanol, .alpha.,.al...	156	C10H20O	005114-00-1	64
5	Butane, 2-methoxy-3-methyl-	102	C6H14O	062016-49-3	59





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032523.D
Acq On : 07 Jun 2019 02:07
Operator : JC/SP
Sample : K3215-12
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 44 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J7

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

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

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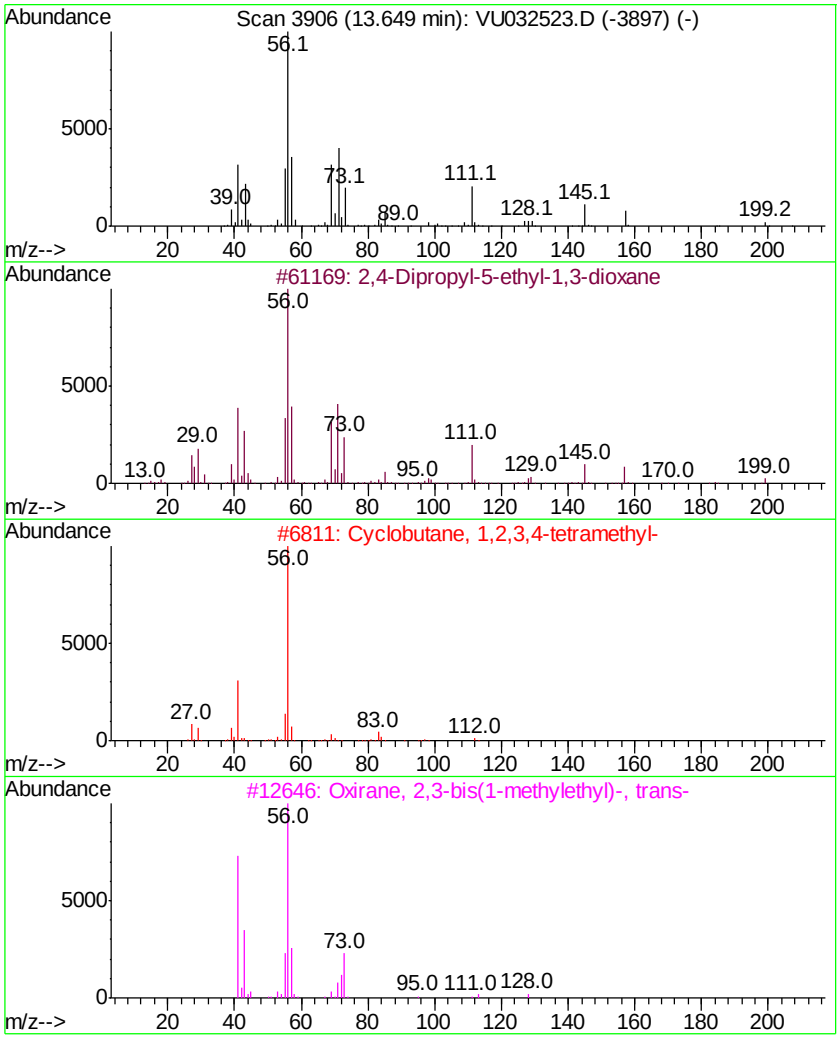
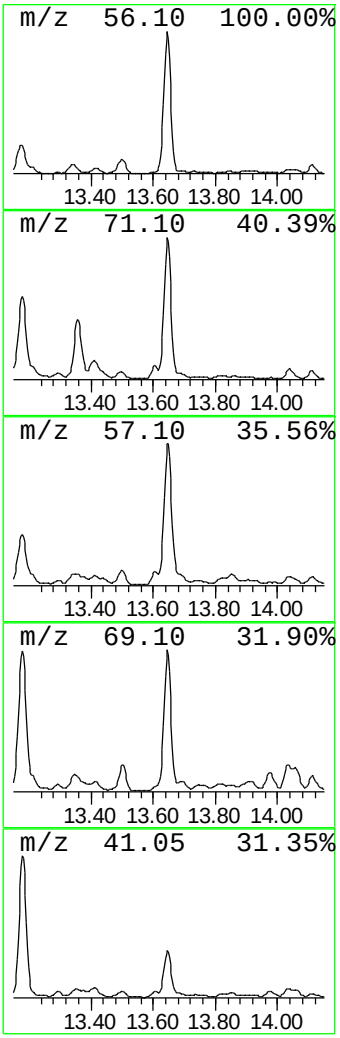
Peak Number 20 2,4-Dipropyl-5-ethyl-1,3-di... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.65	9.28 ug/L	1175860	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,4-Dipropyl-5-ethyl-1,3-dioxane	200	C12H24O2	006413-83-8	91
2	Cyclobutane, 1,2,3,4-tetramethyl-	112	C8H16	069531-57-3	27
3	Oxirane, 2,3-bis(1-methylethyl)-...	128	C8H16O	054644-32-5	17
4	Decane, 4-methylene-	154	C11H22	024949-41-5	17
5	Nonane, 5-methylene-	140	C10H20	006795-79-5	16





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032523.D
Acq On : 07 Jun 2019 02:07
Operator : JC/SP
Sample : K3215-12
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 44 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J7

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

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

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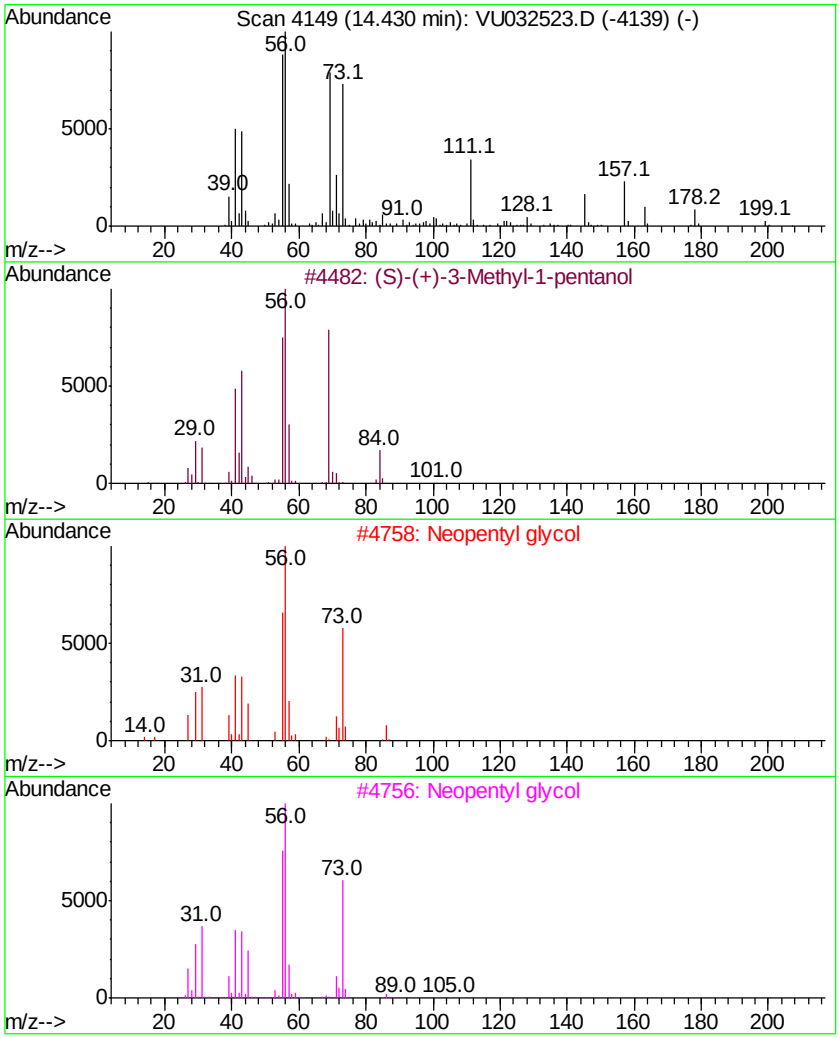
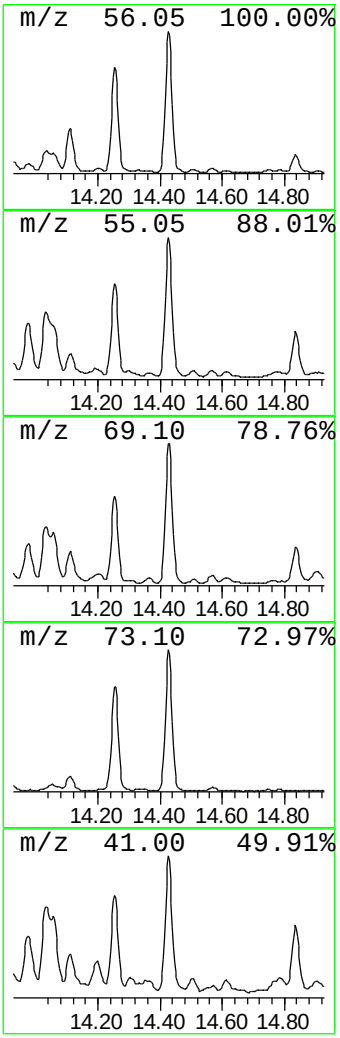
Peak Number 21 unknown-04 Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.43	2.53 ug/L	320093	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(S)-(+)-3-Methyl-1-pentanol	102	C6H14O	042072-39-9	38
2	Neopentyl glycol	104	C5H12O2	000126-30-7	35
3	Neopentyl glycol	104	C5H12O2	000126-30-7	25
4	Undecanol-4	172	C11H24O	004272-06-4	25
5	2-Pyrrolidinone, 1-ethenyl-	111	C6H9NO	000088-12-0	22





Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060619\
Data File : VU032523.D
Acq On : 07 Jun 2019 02:07
Operator : JC/SP
Sample : K3215-12
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 44 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J7

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

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Isopropyl Alcohol	2.44	2.6	ug/L	21990	1	5.88	421379	50.0
unknown-01	2.82	3.0	ug/L	24917	1	5.88	421379	50.0
Propanal, 2-methyl-	3.18	25.8	ug/L	217254	1	5.88	421379	50.0
Butanal	3.98	171.8	ug/L	1447770	1	5.88	421379	50.0
unknown-02	9.54	2.6	ug/L	37503	2	9.08	721143	50.0
4-Heptanone	9.60	7.1	ug/L	102646	2	9.08	721143	50.0
Benzene, 1-ethyl-...	10.68	4.2	ug/L	531057	3	11.48	6333850	50.0
Benzene, 1,2,3-tr...	10.77	3.3	ug/L	422424	3	11.48	6333850	50.0
4-Heptanone, 2,6-...	10.91	9.8	ug/L	1246450	3	11.48	6333850	50.0
Benzene, 1-ethyl-...	10.96	2.5	ug/L	318035	3	11.48	6333850	50.0
2-Heptanone, 4,6-...	11.23	3.7	ug/L	472185	3	11.48	6333850	50.0
Cyclohexene, 1-me...	11.32	9.4	ug/L	1197330	3	11.48	6333850	50.0
Cyclohexanone, 3,...	12.14	14.9	ug/L	1880950	3	11.48	6333850	50.0
1-Oxa-4-azaspiro[...	12.69	5.7	ug/L	717643	3	11.48	6333850	50.0
unknown-03	12.78	5.0	ug/L	632073	3	11.48	6333850	50.0
Cyclohexanol, 1-m...	13.08	187.7	ug/L	23781000	3	11.48	6333850	50.0
Cyclohexanemethan...	13.18	36.6	ug/L	4633300	3	11.48	6333850	50.0
2,4-Dipropyl-5-et...	13.65	9.3	ug/L	1175860	3	11.48	6333850	50.0
unknown-04	14.43	2.5	ug/L	320093	3	11.48	6333850	50.0