LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU060619\
Data File : VU032526.D
Acq On : 07 Jun 2019 03:16
Operator : JC/SP
Sample : K3215-10
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J4

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	1.395	86	95	109	rVV3	106923	146774	1.34%	0.116%
2	2.241	348	358	363	rBV	241627	380640	3.48%	0.302%
3	2.315	372	381	407	rVB	2086490	3217585	29.44%	2.553%
4	2.437	408	419	446	rVB	279238	483623	4.43%	0.384%
5	3.177	631	649	680	rBV	308842	669224	6.12%	0.531%
6	3.981	878	899	945	rBV	2137641	5419258	49.59%	4.300%
7	4.167	946	957	977	rBV	95518	257664	2.36%	0.204%
8	4.640	1090	1104	1125	rVB	128901	302296	2.77%	0.240%
9	5.334	1293	1320	1329	rBV3	391790	1058170	9.68%	0.840%
10	5.881	1476	1490	1526	rVV	270921	544039	4.98%	0.432%
11	6.164	1567	1578	1596	rBV2	148345	382175	3.50%	0.303%
12	6.324	1614	1628	1642	rBV	167226	330926	3.03%	0.263%
13	6.415	1643	1656	1674	rVV2	111214	248211	2.27%	0.197%
14	7.222	1891	1907	1922	rBV	95745	172468	1.58%	0.137%
15	7.453	1965	1979	2001	rBV	989056	1739552	15.92%	1.380%
16	7.559	2001	2012	2025	rVV	340356	677831	6.20%	0.538%
17	7.630	2025	2034	2047	rVV	540319	937044	8.57%	0.743%
18	7.900	2110	2118	2146	rVB	104833	201964	1.85%	0.160%
19	8.225	2209	2219	2230	rBV	92735	150401	1.38%	0.119%
20	8.305	2230	2244	2256	rBV	3815358	6351018	58.11%	5.039%
21	8.357	2257	2260	2278	rVB	104180	169312	1.55%	0.134%
22	8.472	2287	2296	2317	rBV	248583	424351	3.88%	0.337%
23	9.048	2454	2475	2480	rBV	378912	747649	6.84%	0.593%
24	9.083	2482	2486	2505	rVV	451056	775002	7.09%	0.615%
25	9.244	2526	2536	2542	rBV	169470	273894	2.51%	0.217%
26	9.286	2542	2549	2562	rVV2	379099	658742	6.03%	0.523%
27	9.369	2563	2575	2589	rVV3	825629	1619686	14.82%	1.285%
28	9.453	2593	2601	2618	rVV	246573	416799	3.81%	0.331%
29	9.537	2618	2627	2636	rVV	118061	200594	1.84%	0.159%
30	9.594	2636	2645	2667	rVV	295563	514530	4.71%	0.408%
31	9.775	2689	2701	2707	rBV	393841	655391	6.00%	0.520%
32	9.807	2708	2711	2726	rVB	191538	259125	2.37%	0.206%
33	9.893	2726	2738	2740	rBV	229678	316988	2.90%	0.252%
34	10.016	2770	2776	2807	rVB3	178417	441097	4.04%	0.350%

LSC Area Percent Report

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Sample : K3215-10
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J4

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	10.160	2809	2821	2831	rVB	82505	141166	1.29%	0.112%
36	10.392	2875	2893	2900	rBV2	841860	1575163	14.41%	1.250%
37	10.495	2915	2925	2931	rBV	301965	449310	4.11%	0.356%
38	10.537	2931	2938	2948	rVV	788074	1224073	11.20%	0.971%
39	10.675	2974	2981	2997	rVB	440033	954716	8.74%	0.757%
40	10.768	3002	3010	3024	rVB2	379797	672169	6.15%	0.533%
41	10.913	3041	3055	3065	rBV	4146615	6254118	57.23%	4.962%
42	10.964	3065	3071	3084	rVB	578498	922353	8.44%	0.732%
43	11.061	3092	3101	3116	rBV	199530	322223	2.95%	0.256%
44	11.144	3116	3127	3138	rBV	984022	1513092	13.85%	1.201%
45	11.237	3143	3156	3169	rBV3	3587115	5895311	53.94%	4.677%
46	11.315	3173	3180	3197	rVB4	316987	654161	5.99%	0.519%
47	11.405	3198	3208	3211	rBV	324095	470220	4.30%	0.373%
48	11.472	3221	3229	3238	rVB4	1013799	1492291	13.66%	1.184%
49	11.530	3238	3247	3269	rVB	5699835	9437702	86.36%	7.488%
50	11.659	3272	3287	3298	rBV2	188256	345321	3.16%	0.274%
51	11.739	3298	3312	3339	rBV2	5655421	9891959	90.52%	7.848%
52	11.858	3339	3349	3359	rBV4	548841	1090173	9.98%	0.865%
53	11.916	3359	3367	3379	rVB	1278967	2025669	18.54%	1.607%
54	12.045	3396	3407	3425	rVB3	826440	1681813	15.39%	1.334%
55	12.144	3425	3438	3447	rBV	6701047	10928403	100.00%	8.671%
56	12.250	3465	3471	3484	rVB3	321160	553277	5.06%	0.439%
57	12.318	3485	3492	3497	rBV5	106680	171897	1.57%	0.136%
58	12.408	3511	3520	3537	rVB3	284012	728102	6.66%	0.578%
59	12.504	3537	3550	3576	rBV3	1072515	2304527	21.09%	1.828%
60	12.620	3577	3586	3596	rBV5	212325	392736	3.59%	0.312%
61	12.691	3597	3608	3619	rVB	1415085	2402728	21.99%	1.906%
62	12.784	3626	3637	3653	rVB2	1152853	2054622	18.80%	1.630%
63	13.003	3696	3705	3716	rBV4	938859	1785030	16.33%	1.416%
64	13.070	3716	3726	3735	rVV	2800918	4523909	41.40%	3.589%
65	13.118	3736	3741	3749	rVB2	357807	501386	4.59%	0.398%
66	13.173	3749	3758	3765	rBV3	276463	480556	4.40%	0.381%
67	13.212	3766	3770	3784	rVB3	205622	270923	2.48%	0.215%
68	13.282	3785	3792	3800	rVB	155741	238491	2.18%	0.189%
69	13.344	3800	3811	3821	rBV4	314764	591832	5.42%	0.470%
70	13.414	3823	3833	3845	rVV4	550929	1090570	9.98%	0.865%
71	13.501	3846	3860	3869	rVB4	305188	597441	5.47%	0.474%

LSC Area Percent Report

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Sample : K3215-10
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J4

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	13.604	3884	3892	3896	rBV2	295031	416906	3.81%	0.331%
73	13.646	3896	3905	3916	rVB	1751105	2813053	25.74%	2.232%
74	13.736	3926	3933	3949	rVB	468602	822450	7.53%	0.653%
75	13.816	3950	3958	3964	rBV5	232530	414126	3.79%	0.329%
76	13.977	3999	4008	4017	rBV4	285680	668547	6.12%	0.530%
77	14.032	4018	4025	4043	rVV3	940035	1941728	17.77%	1.541%
78	14.112	4043	4050	4066	rVB	155365	297258	2.72%	0.236%
79	14.199	4068	4077	4085	rBV4	174713	287621	2.63%	0.228%
80	14.253	4085	4094	4103	rBV	528528	788242	7.21%	0.625%
81	14.305	4103	4110	4117	rVV5	90211	165030	1.51%	0.131%
82	14.366	4120	4129	4138	rVV	389938	658521	6.03%	0.522%
83	14.427	4139	4148	4165	rVV2	672545	1160364	10.62%	0.921%
84	14.614	4199	4206	4229	rVB4	76251	140087	1.28%	0.111%
85	14.784	4252	4259	4266	rBV6	149193	209876	1.92%	0.167%
86	14.835	4266	4275	4283	rBV	799887	1149933	10.52%	0.912%
87	15.015	4322	4331	4335	rBV5	165743	267172	2.44%	0.212%
88	15.057	4337	4344	4352	rVB3	266178	431317	3.95%	0.342%
89	15.305	4413	4421	4428	rBV	123886	193101	1.77%	0.153%
90	15.533	4481	4492	4504	rBV2	350406	658984	6.03%	0.523%
91	15.633	4518	4523	4540	rVB6	93305	173800	1.59%	0.138%
92	15.742	4542	4557	4569	rBV4	777721	1615501	14.78%	1.282%
93	15.941	4613	4619	4634	rVB4	92421	199575	1.83%	0.158%
94	16.035	4638	4648	4661	rVV2	236889	492966	4.51%	0.391%
95	16.141	4674	4681	4704	rVB4	190952	423861	3.88%	0.336%
96	16.488	4778	4789	4807	rVB3	161231	310770	2.84%	0.247%
97	16.668	4835	4845	4862	rVB	472556	748446	6.85%	0.594%
98	16.900	4912	4917	4933	rVB	140641	230687	2.11%	0.183%
99	17.083	4962	4974	4994	rVB6	149454	314807	2.88%	0.250%
100	17.334	5043	5052	5084	rVB3	113252	268150	2.45%	0.213%

Sum of corrected areas: 126036335

LSC Report - Integrated Chromatogram

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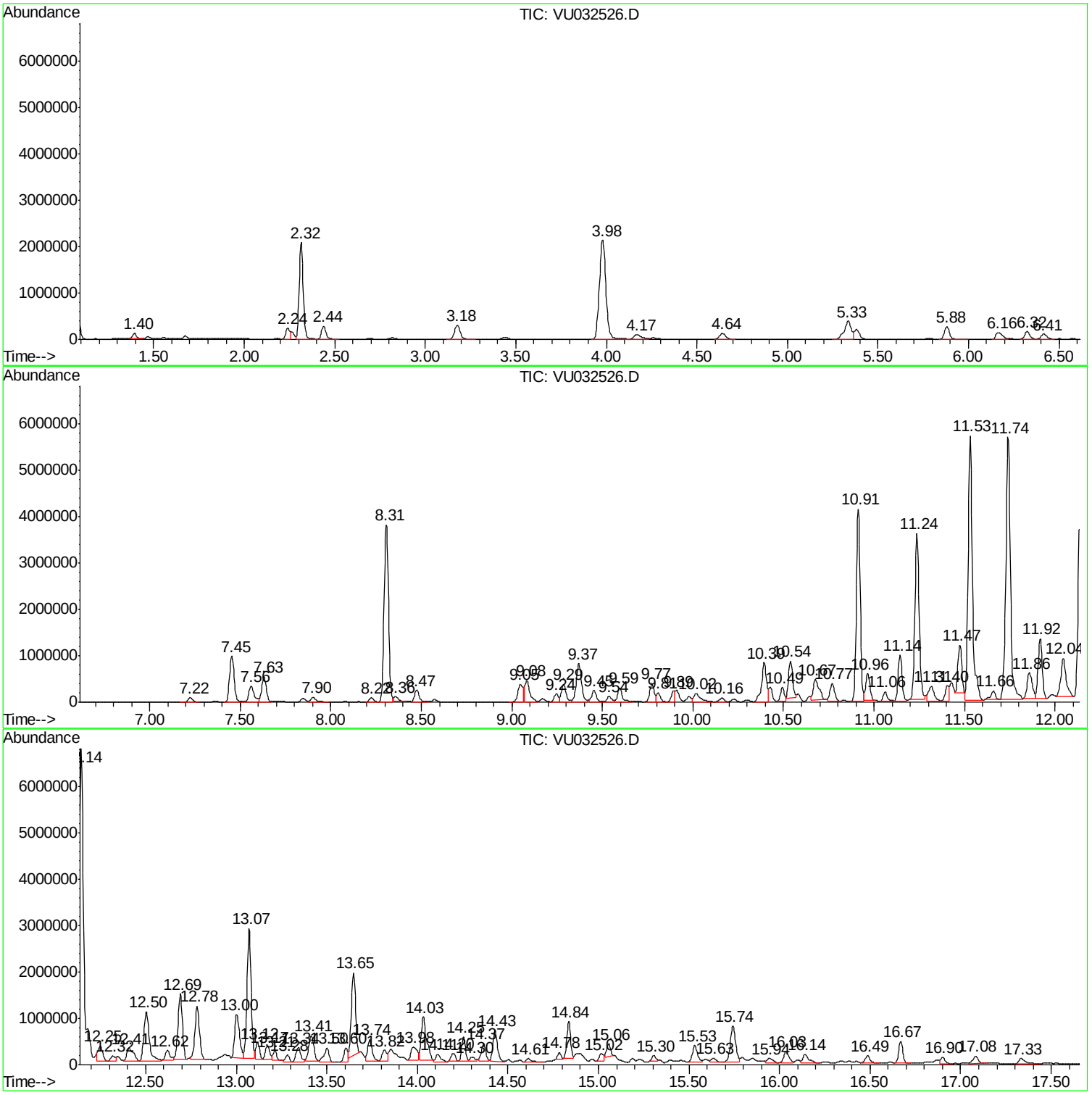
Acq On : 07 Jun 2019 03:16
Operator : JC/SP
Sample : K3215-10
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J4

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\
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ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J4

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

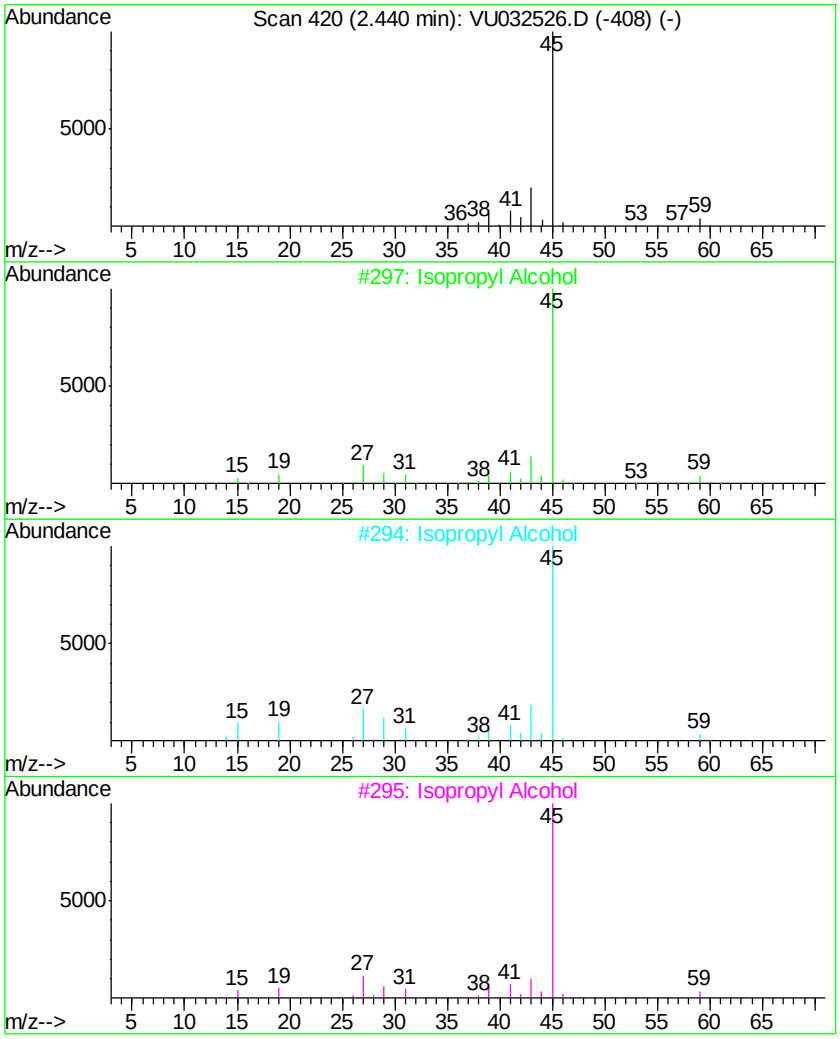
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

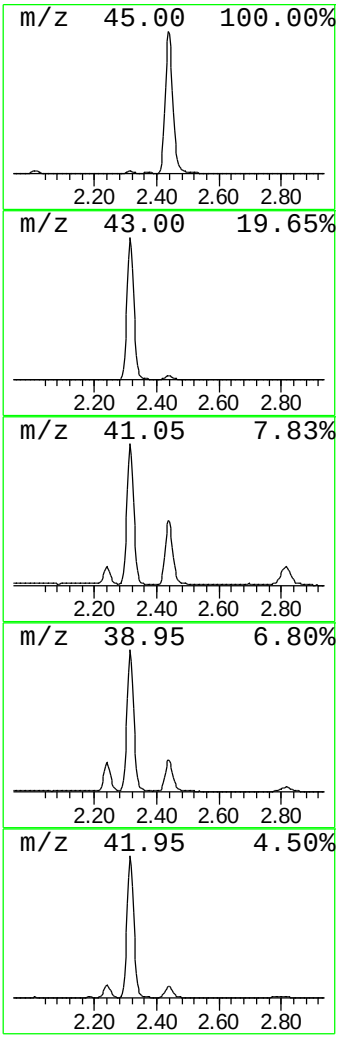
****

Peak Number 1 Isopropyl Alcohol Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.44	44.45 ug/L	483623	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Isopropyl Alcohol	60	C3H8O	000067-63-0	86
2	Isopropyl Alcohol	60	C3H8O	000067-63-0	78
3	Isopropyl Alcohol	60	C3H8O	000067-63-0	78
4	Isopropyl Alcohol	60	C3H8O	000067-63-0	56
5	Hydrazine, ethyl-	60	C2H8N2	000624-80-6	9





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU060619\
Data File : VU032526.D
Acq On : 07 Jun 2019 03:16
Operator : JC/SP
Sample : K3215-10
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J4

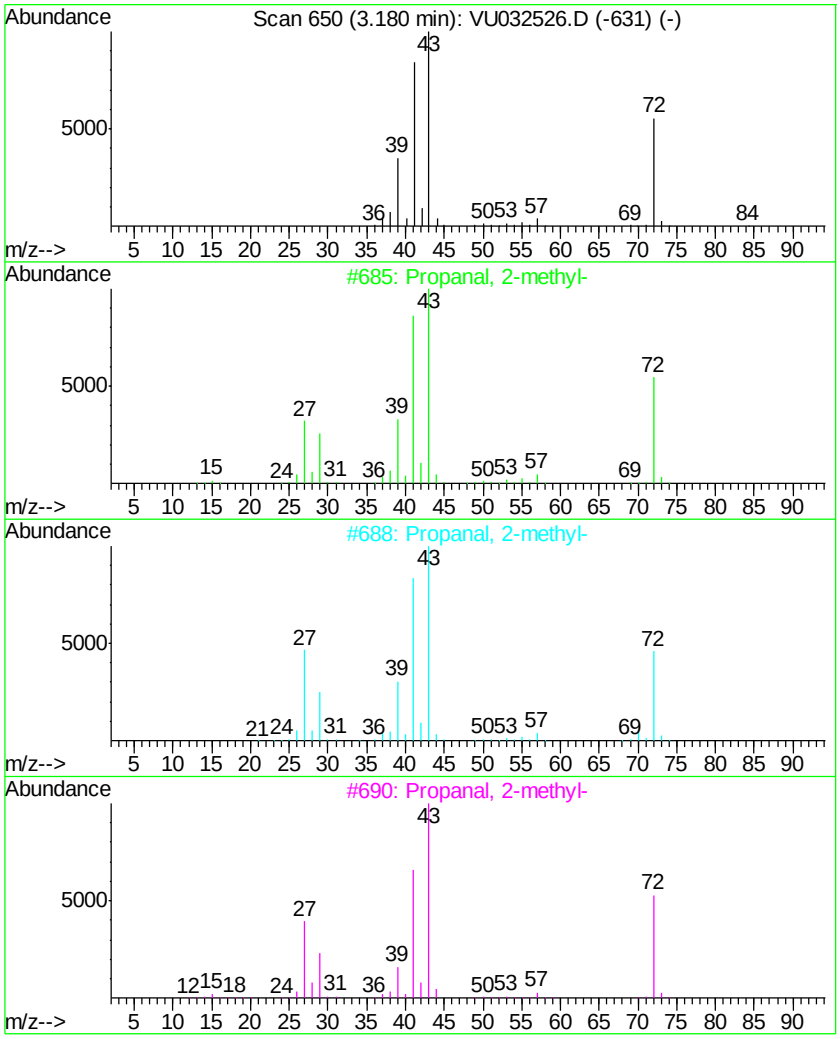
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

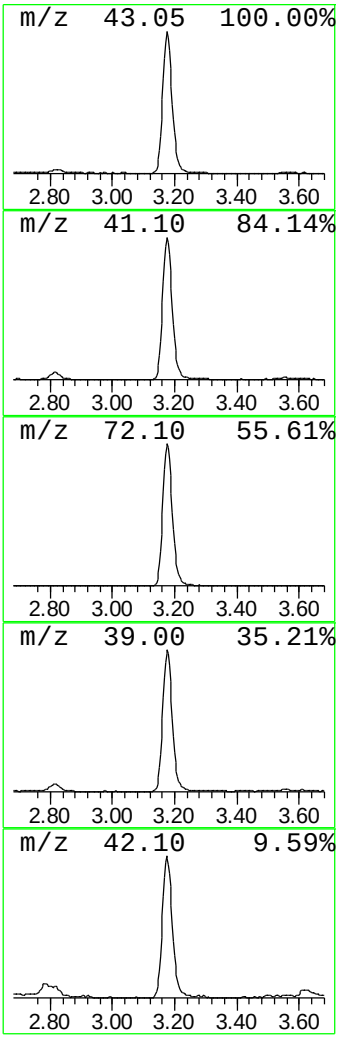
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 Propanal, 2-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.18	61.51 ug/L	669224	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	Propanal, 2-methyl-	72	C4H8O	000078-84-2	43





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ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J4

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

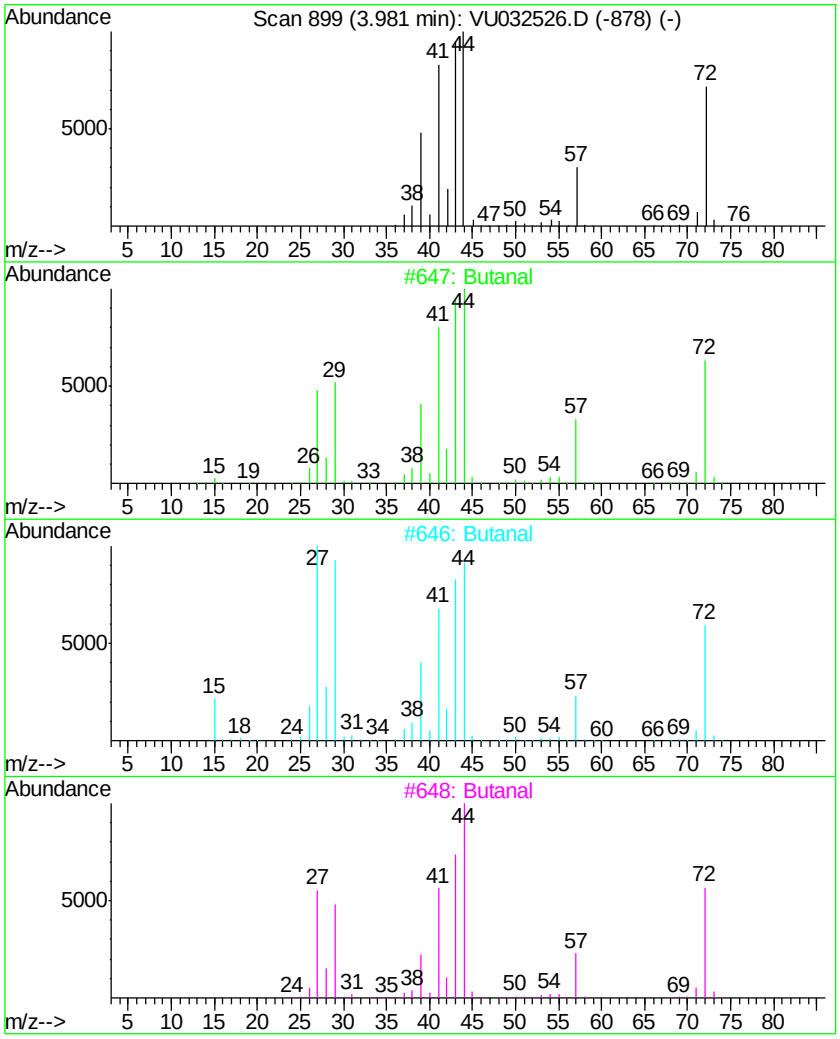
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

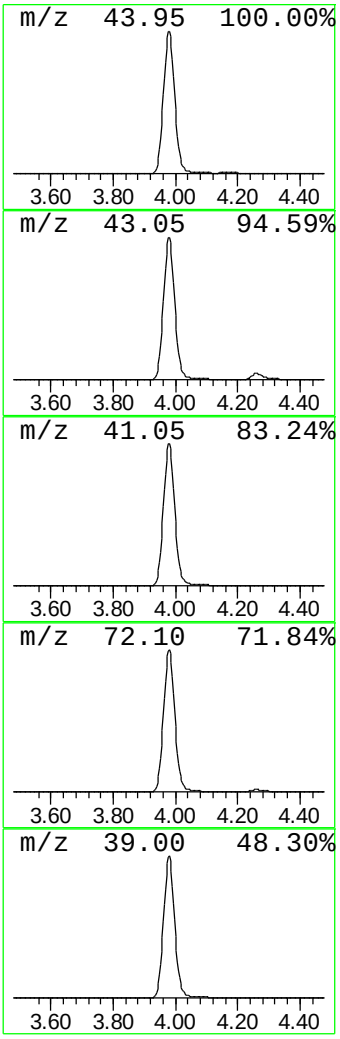
****

Peak Number 3 Butanal Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.98	498.06 ug/L	5419260	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butanal	72	C4H8O	000123-72-8	94
2	Butanal	72	C4H8O	000123-72-8	91
3	Butanal	72	C4H8O	000123-72-8	64
4	Butanal	72	C4H8O	000123-72-8	50
5	Ethene, ethoxy-	72	C4H8O	000109-92-2	49





Library Search Compound Report

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ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J4

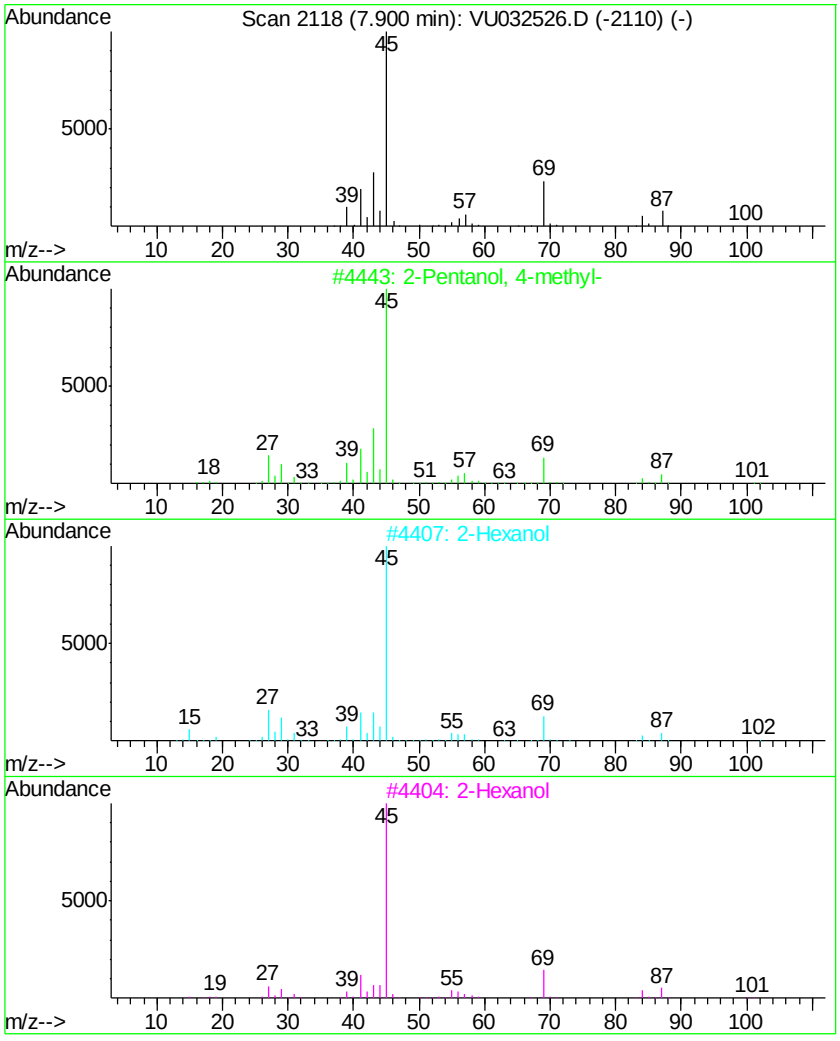
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

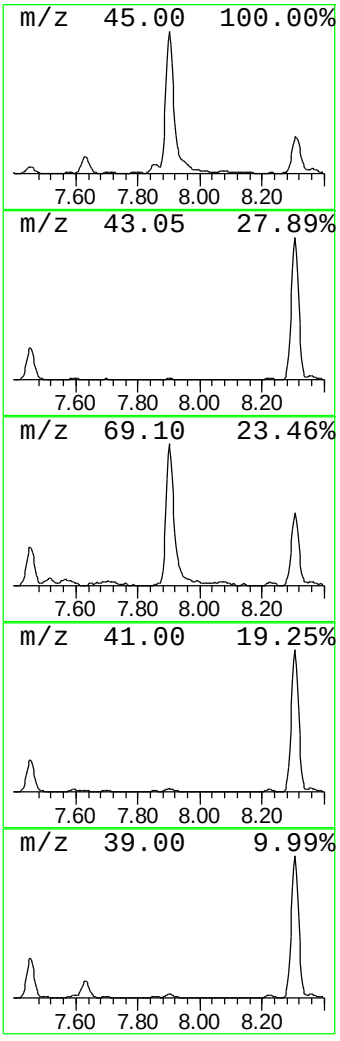
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 2-Pentanol, 4-methyl- Concentration Rank 53

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.90	13.03 ug/L	201964	Chlorobenzene-d5	9.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanol, 4-methyl-	102	C6H14O	000108-11-2	83
2	2-Hexanol	102	C6H14O	000626-93-7	83
3	2-Hexanol	102	C6H14O	000626-93-7	83
4	2-Octanol, (R)-	130	C8H18O	005978-70-1	78
5	2-Hexanol	102	C6H14O	000626-93-7	72





Library Search Compound Report

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Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J4

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

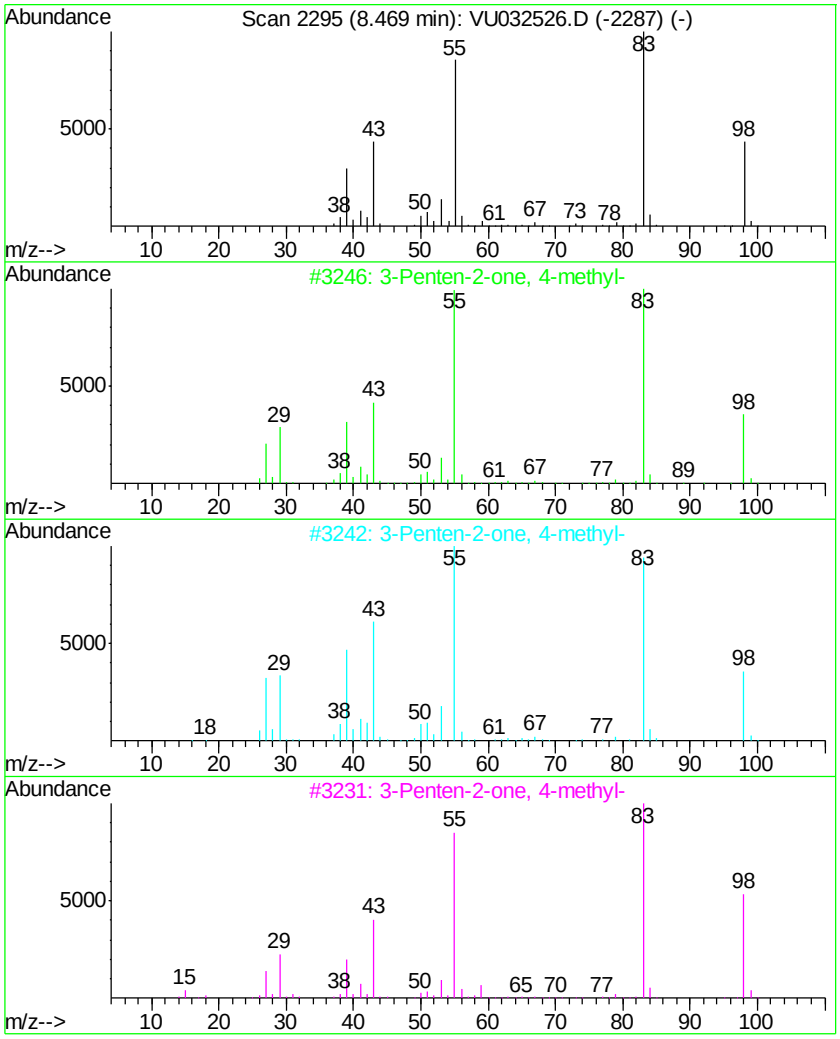
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

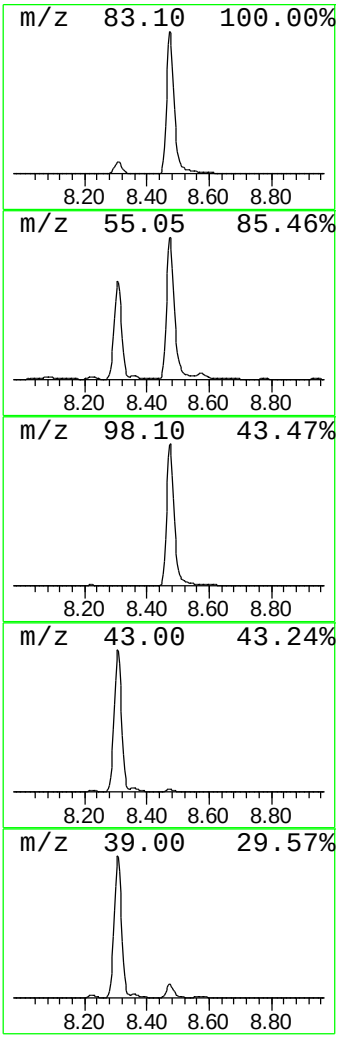
****

Peak Number 7 3-Penten-2-one, 4-methyl- Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.47	27.38 ug/L	424351	Chlorobenzene-d5	9.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Penten-2-one, 4-methyl-	98	C6H10O	000141-79-7	95
2	3-Penten-2-one, 4-methyl-	98	C6H10O	000141-79-7	91
3	3-Penten-2-one, 4-methyl-	98	C6H10O	000141-79-7	87
4	2-Pentene, 3,4-dimethyl-, (E)-	98	C7H14	004914-92-5	86
5	2-Pentene, 3,4-dimethyl-, (E)-	98	C7H14	004914-92-5	86





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Data File : VU032526.D
Acq On : 07 Jun 2019 03:16
Operator : JC/SP
Sample : K3215-10
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J4

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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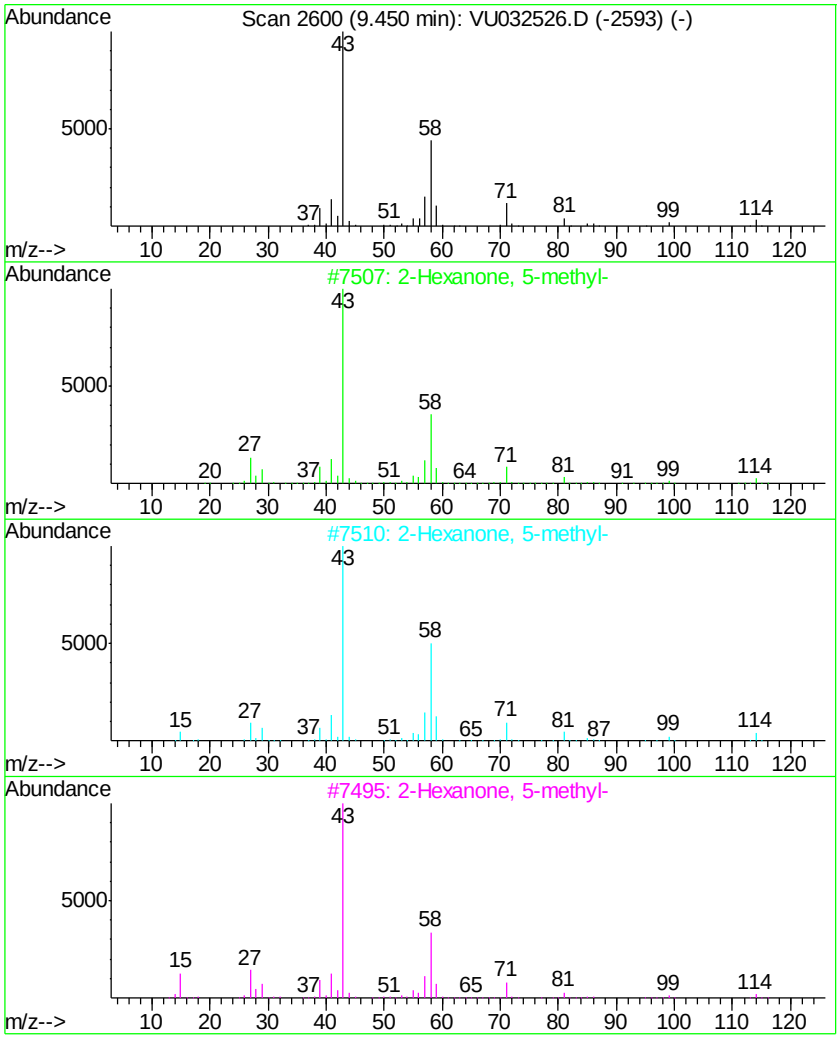
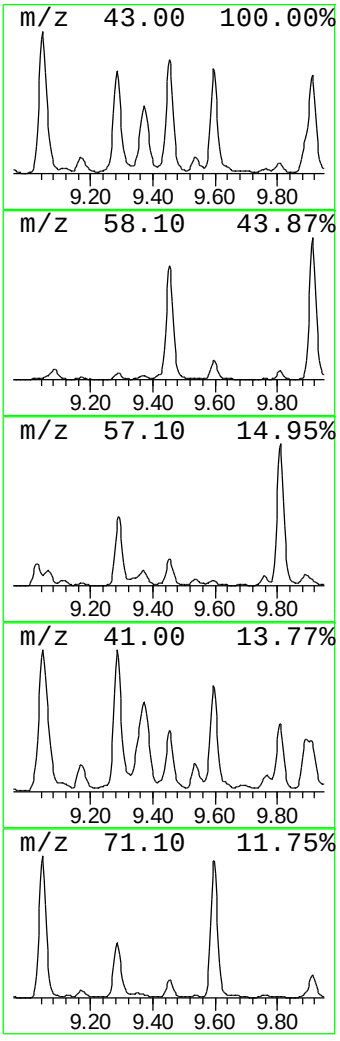
Peak Number 8 2-Hexanone, 5-methyl- Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.45	26.89 ug/L	416799	Chlorobenzene-d5	9.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Hexanone, 5-methyl-	114	C7H14O	000110-12-3	91
2	2-Hexanone, 5-methyl-	114	C7H14O	000110-12-3	91
3	2-Hexanone, 5-methyl-	114	C7H14O	000110-12-3	91
4	2-Hexanone, 5-methyl-	114	C7H14O	000110-12-3	90
5	2-Hexanone, 4-methyl-	114	C7H14O	000105-42-0	72





Library Search Compound Report

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Operator : JC/SP
Sample : K3215-10
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J4

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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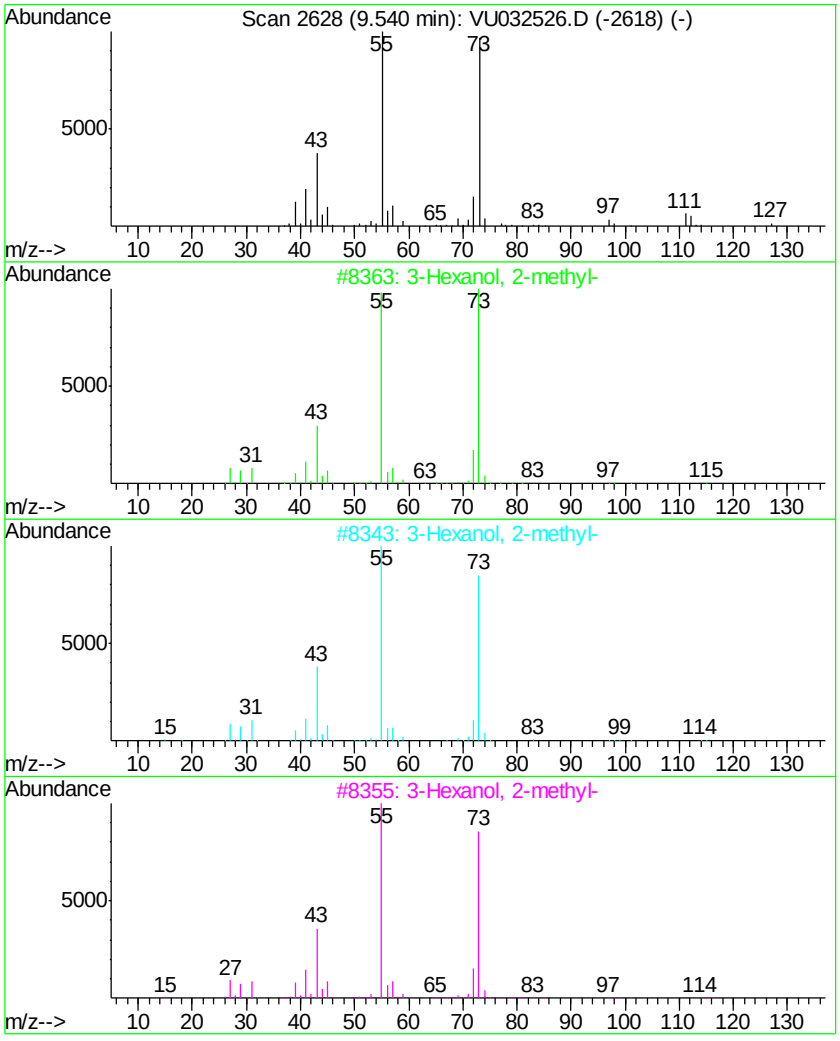
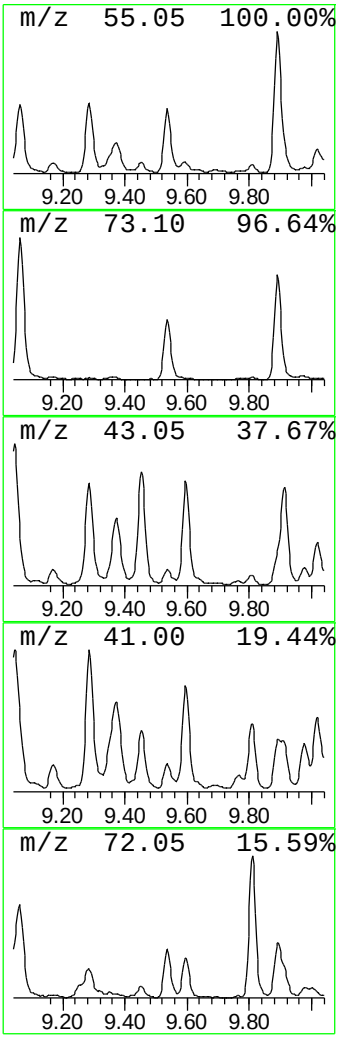
Peak Number 9 3-Hexanol, 2-methyl- Concentration Rank 54

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.54	12.94 ug/L	200594	Chlorobenzene-d5	9.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Hexanol, 2-methyl-	116	C7H16O	000617-29-8	64
2	3-Hexanol, 2-methyl-	116	C7H16O	000617-29-8	64
3	3-Hexanol, 2-methyl-	116	C7H16O	000617-29-8	64
4	4-Heptanol	116	C7H16O	000589-55-9	59
5	4-Heptanol	116	C7H16O	000589-55-9	59





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Acq On : 07 Jun 2019 03:16
Operator : JC/SP
Sample : K3215-10
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J4

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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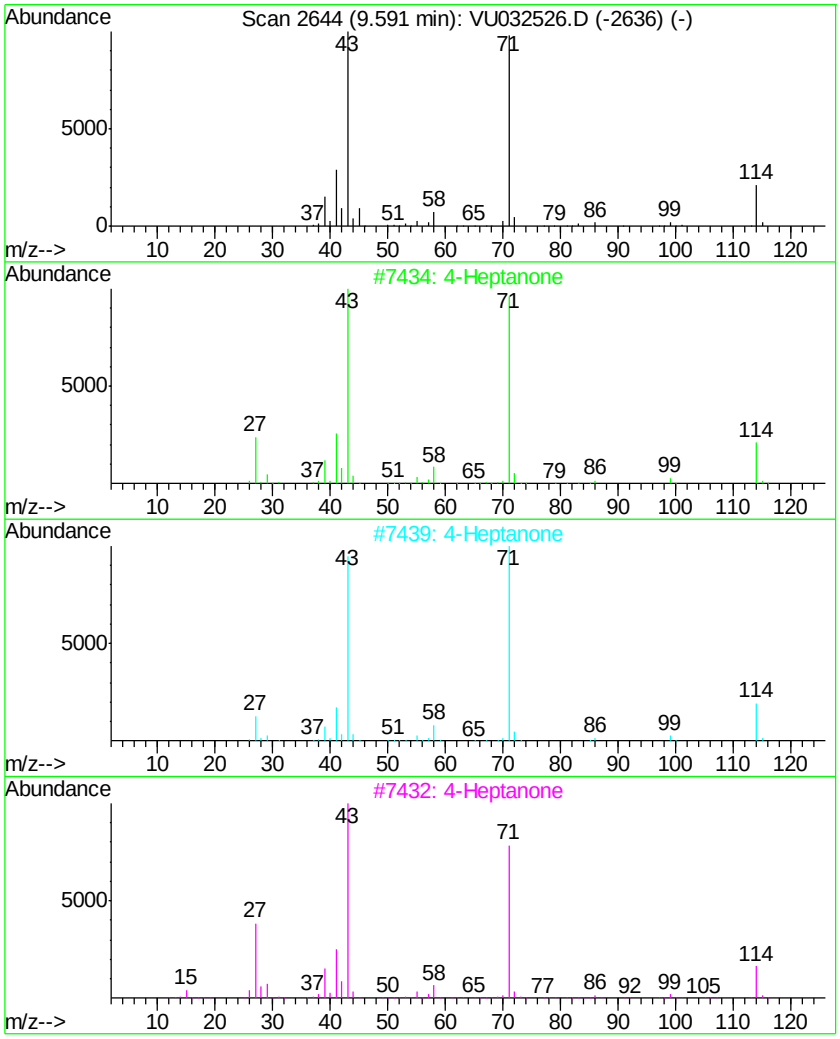
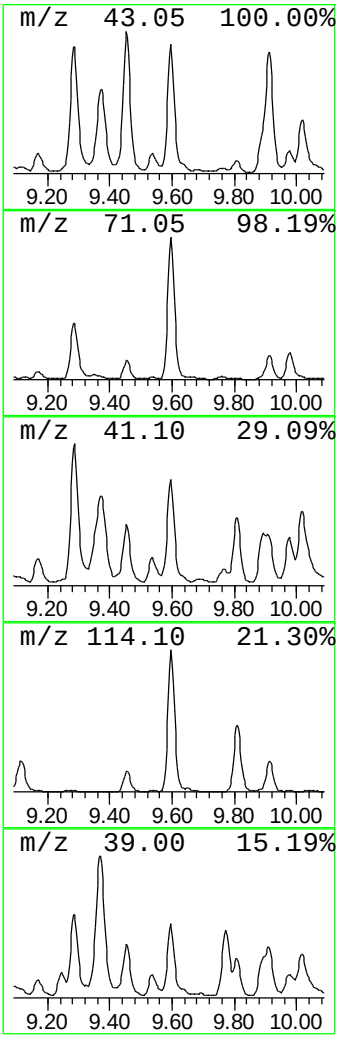
Peak Number 10 4-Heptanone Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.59	33.20 ug/L	514530	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	91
3	4-Heptanone	114	C7H14O	000123-19-3	91
4	4-Heptanone	114	C7H14O	000123-19-3	78
5	3-Hexanone, 2-methyl-	114	C7H14O	007379-12-6	72





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Acq On : 07 Jun 2019 03:16
Operator : JC/SP
Sample : K3215-10
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J4

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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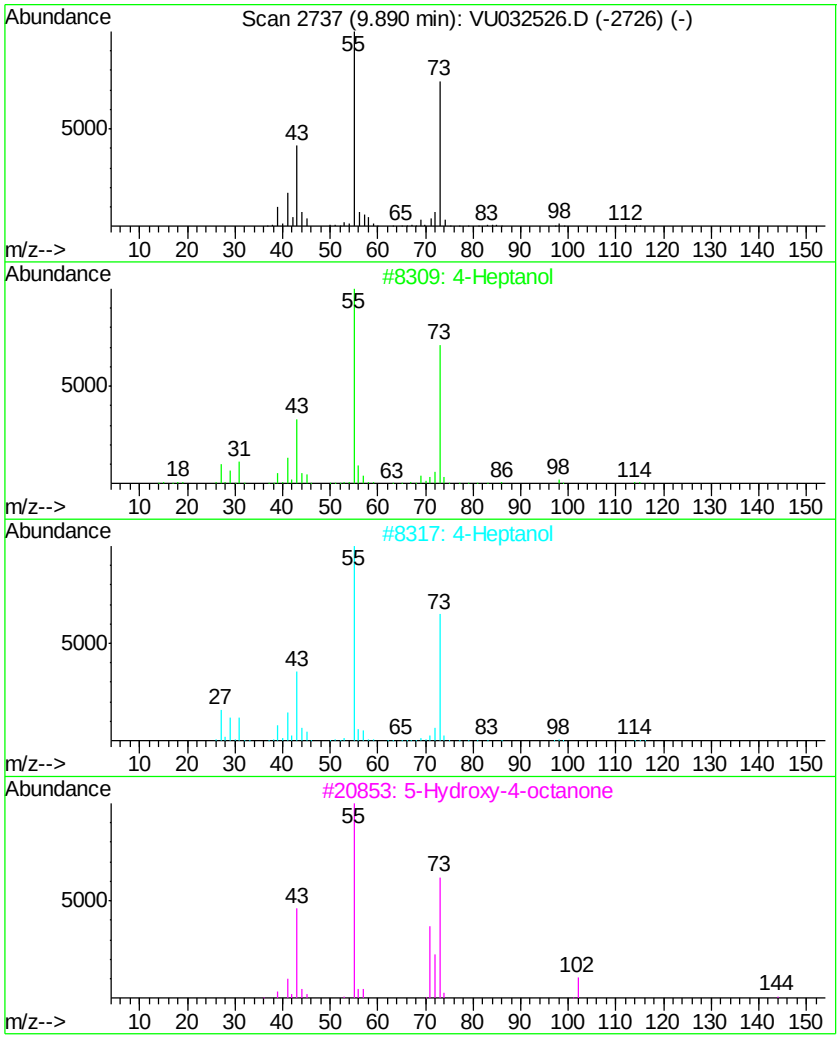
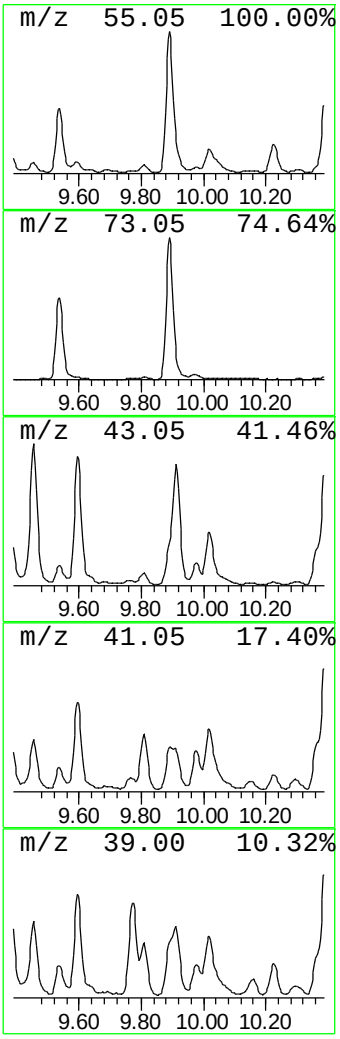
Peak Number 11 4-Heptanol Concentration Rank 38

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.89	20.45 ug/L	316988	Chlorobenzene-d5	9.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Heptanol	116	C7H16O	000589-55-9	64
2	4-Heptanol	116	C7H16O	000589-55-9	59
3	5-Hydroxy-4-octanone	144	C8H16O2	000496-77-5	40
4	3-Hexanol, 2-methyl-	116	C7H16O	000617-29-8	40
5	4-Heptanol	116	C7H16O	000589-55-9	40





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Operator : JC/SP
Sample : K3215-10
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J4

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

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

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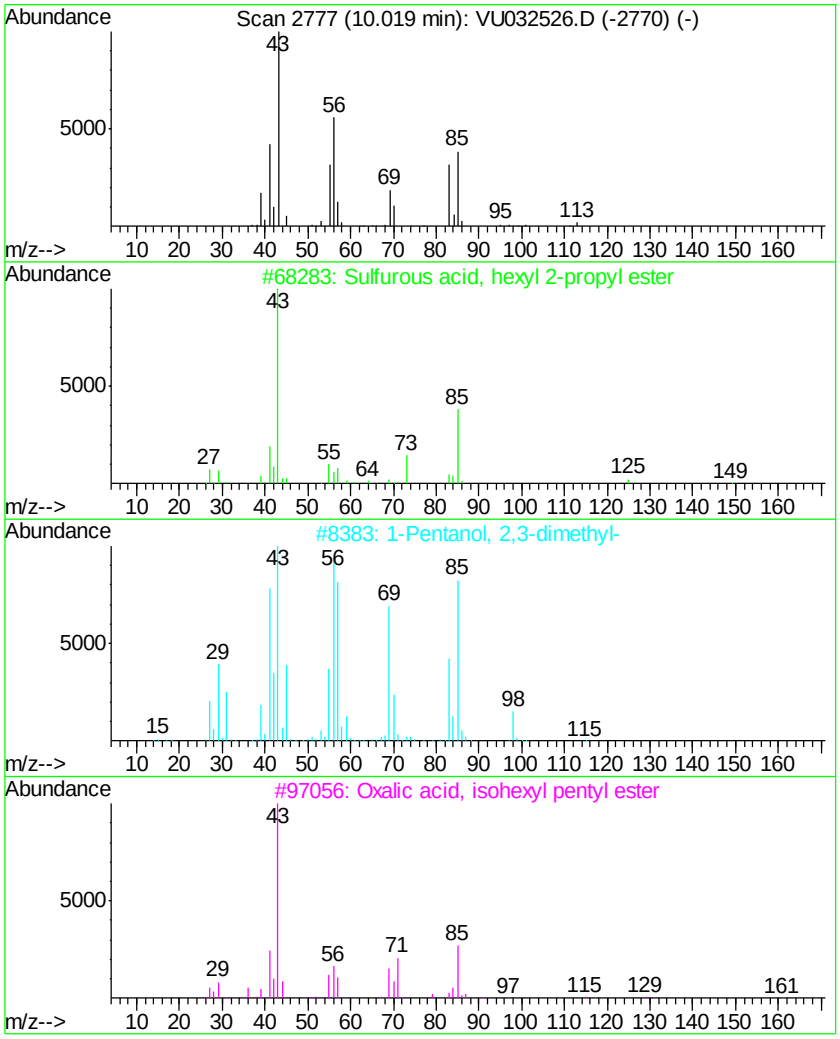
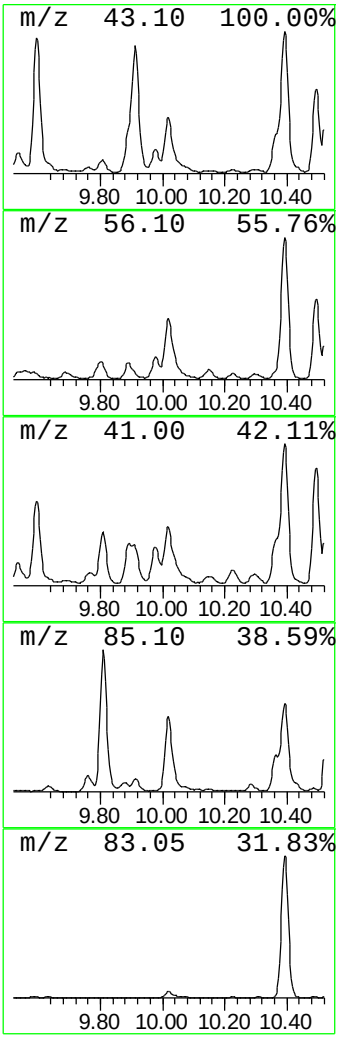
Peak Number 12 unknown-01 Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.02	28.46 ug/L	441097	Chlorobenzene-d5	9.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Sulfurous acid, hexyl 2-propyl e...	208	C9H20O3S	1000309-11-7	43
2	1-Pentanol, 2,3-dimethyl-	116	C7H16O	010143-23-4	42
3	Oxalic acid, isohexyl pentyl ester	244	C13H24O4	1000309-32-8	40
4	Hexane, 1-(hexyloxy)-2-methyl-	200	C13H28O	074421-17-3	40
5	Pentane, 2-bromo-2-methyl-	164	C6H13Br	004283-80-1	38





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Operator : JC/SP
Sample : K3215-10
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J4

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Quant Title : VOC Analysis

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

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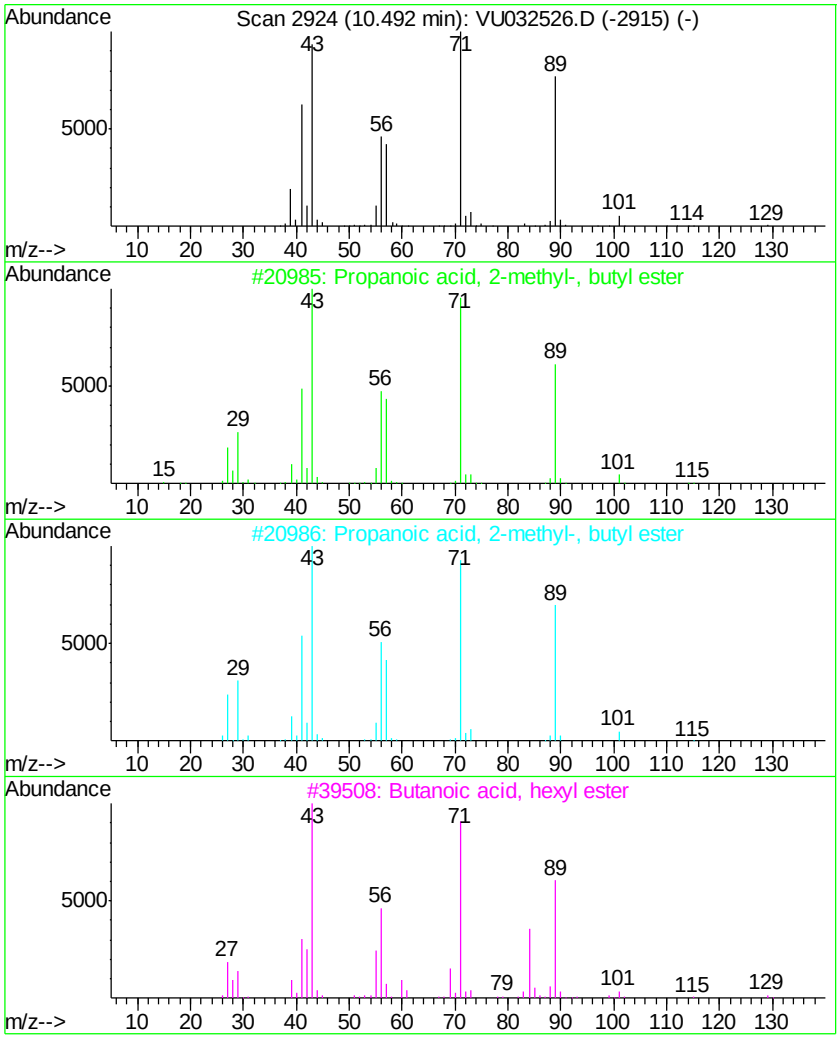
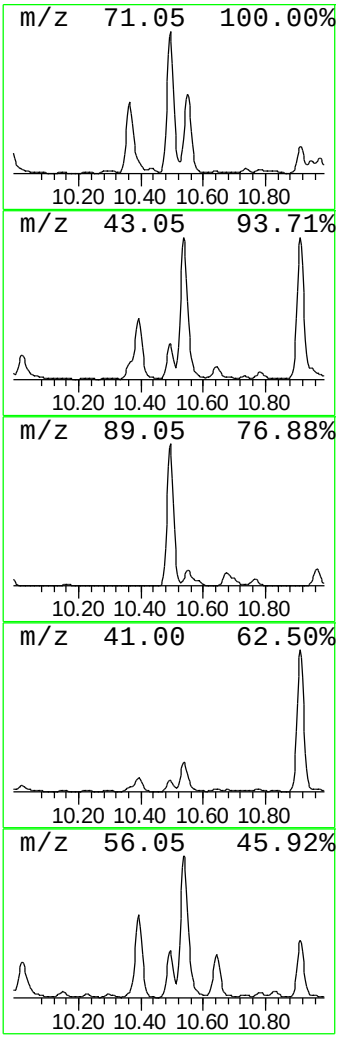
Peak Number 13 Propanoic acid, 2-methyl-, ... Concentration Rank 47

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.49	15.05 ug/L	449310	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propanoic acid, 2-methyl-, butyl...	144	C8H16O2	000097-87-0	90
2	Propanoic acid, 2-methyl-, butyl...	144	C8H16O2	000097-87-0	90
3	Butanoic acid, hexyl ester	172	C10H20O2	002639-63-6	74
4	Butanoic acid, octyl ester	200	C12H24O2	000110-39-4	74
5	Butanoic acid, hexyl ester	172	C10H20O2	002639-63-6	74





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Operator : JC/SP
Sample : K3215-10
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J4

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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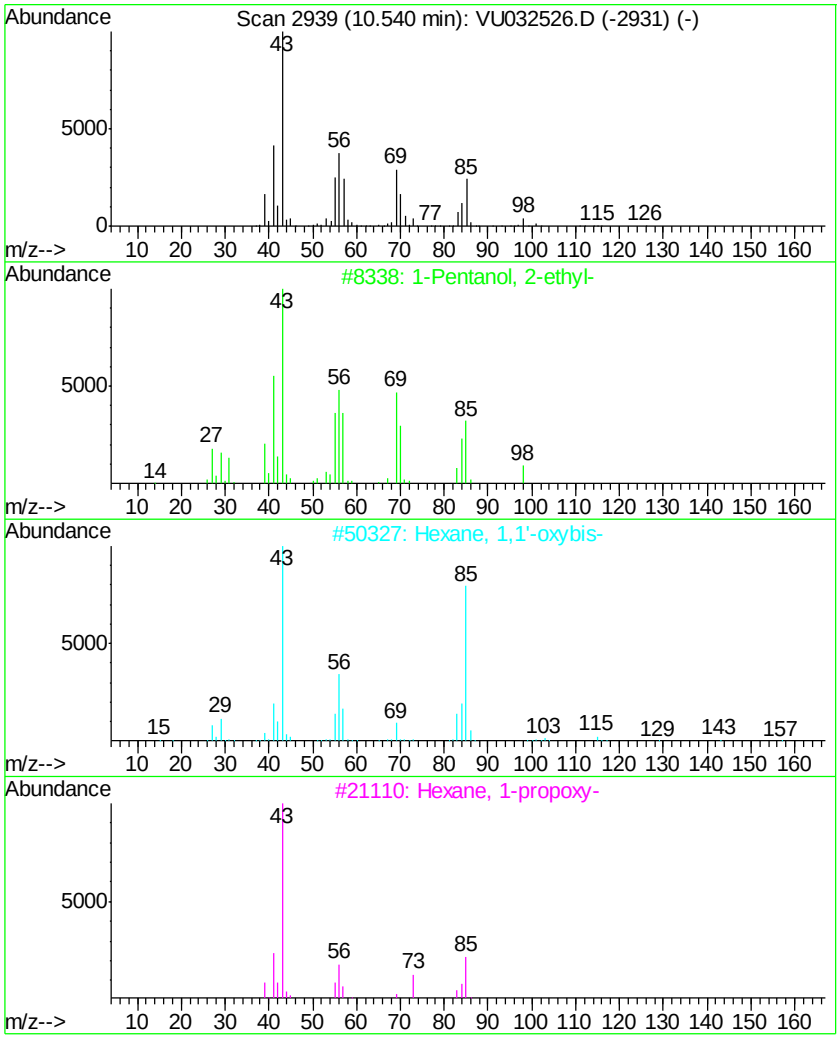
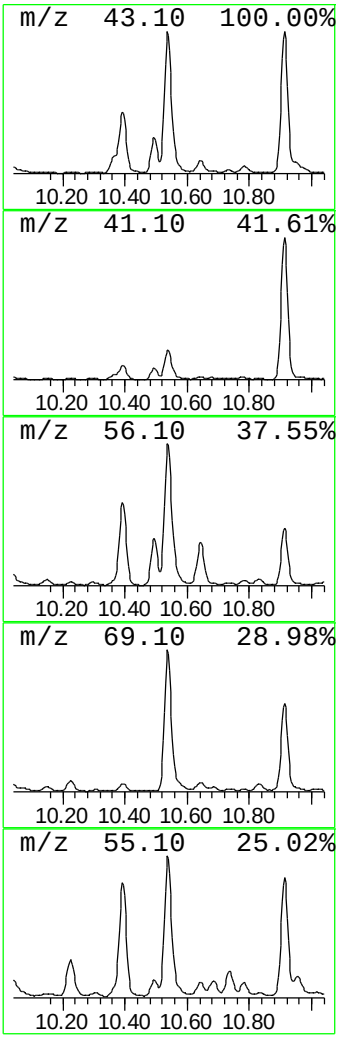
Peak Number 14 1-Pentanol, 2-ethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.54	41.01 ug/L	1224070	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Pentanol, 2-ethyl-	116	C7H16O	027522-11-8	64
2	Hexane, 1,1'-oxybis-	186	C12H26O	000112-58-3	59
3	Hexane, 1-propoxy-	144	C9H20O	053685-78-2	59
4	Pyrrolidine, 3-methyl-	85	C5H11N	034375-89-8	43
5	Hexane, 3-bromo-	164	C6H13Br	003377-87-5	43





Library Search Compound Report

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Operator : JC/SP
Sample : K3215-10
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J4

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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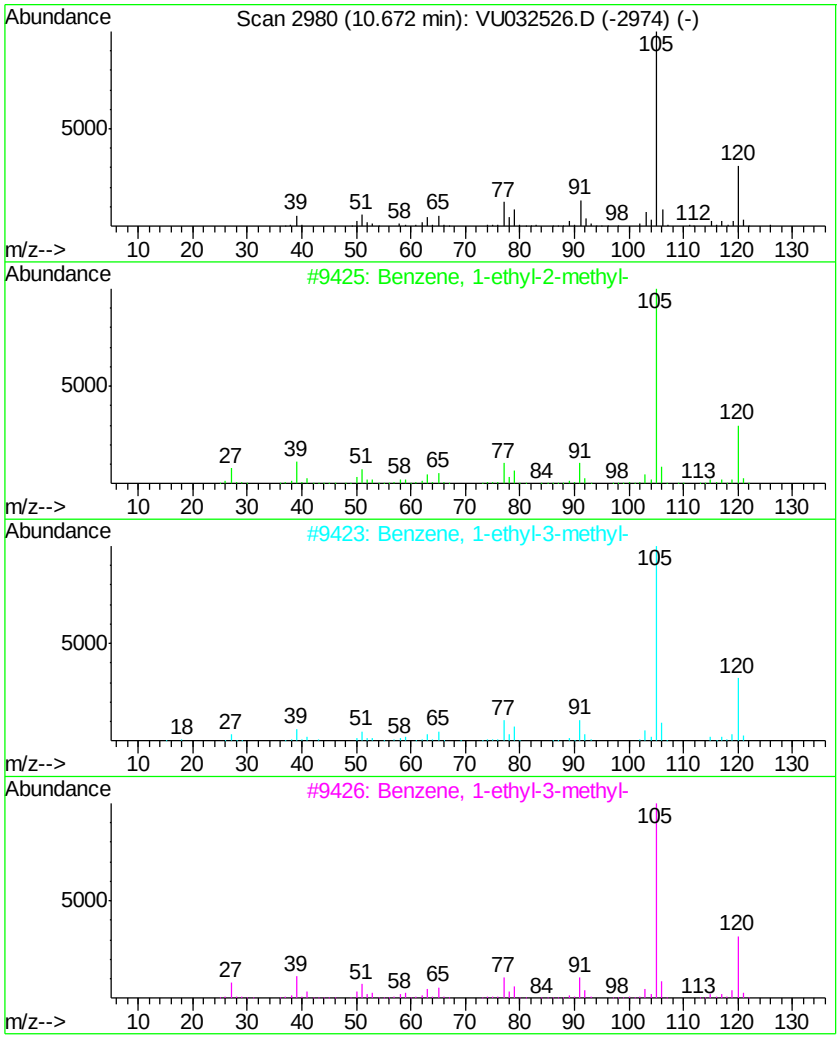
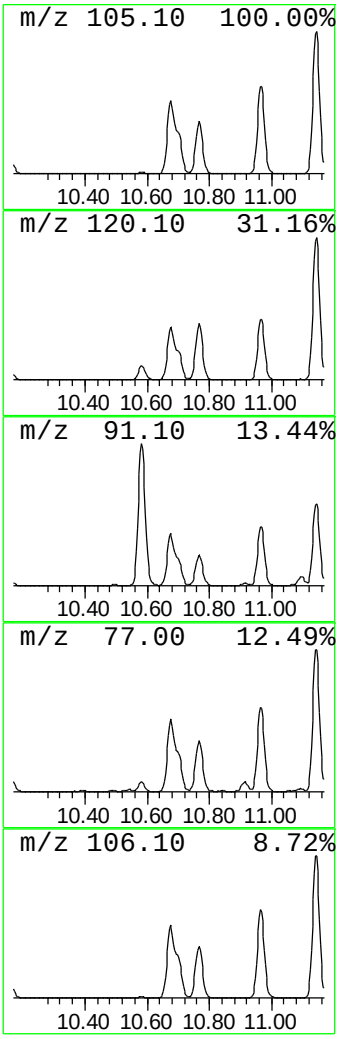
Peak Number 15 Benzene, 1-ethyl-2-methyl- Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.67	31.99 ug/L	954716	1,4-Dichlorobenzene-d4	11.48

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





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Sample : K3215-10
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J4

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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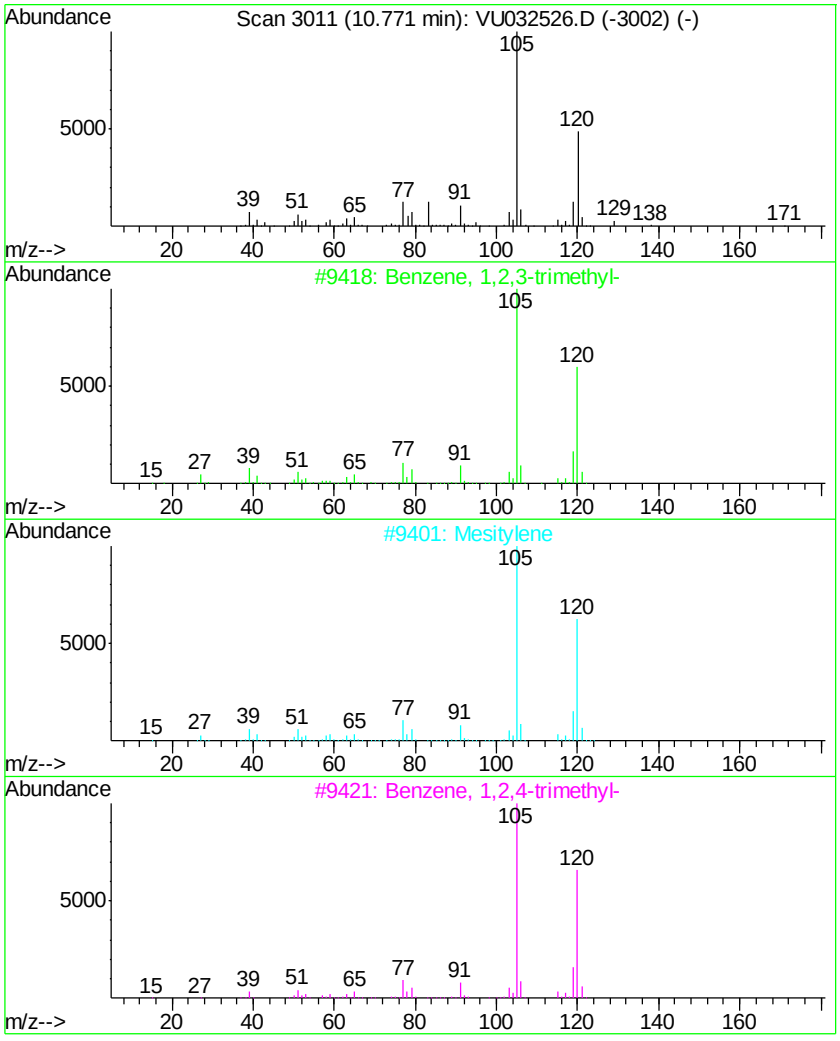
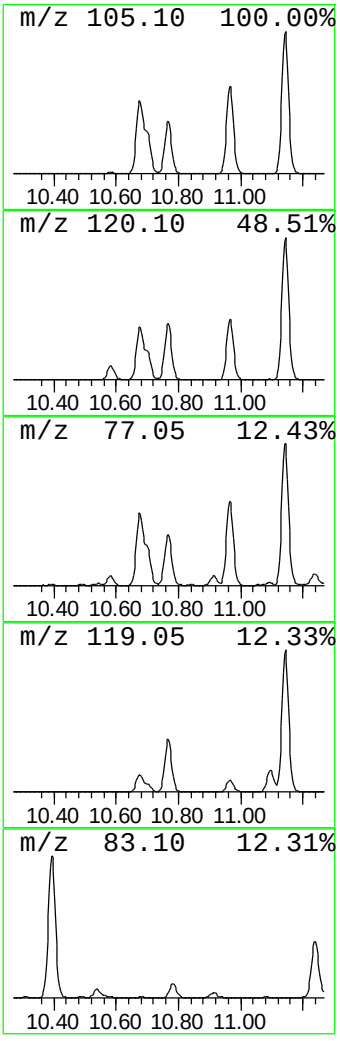
Peak Number 16 Benzene, 1,2,3-trimethyl- Concentration Rank 33

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.77	22.52 ug/L	672169	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	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	95
4	Mesitylene	120	C9H12	000108-67-8	94
5	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	94





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Sample : K3215-10
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J4

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Quant Title : VOC Analysis

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

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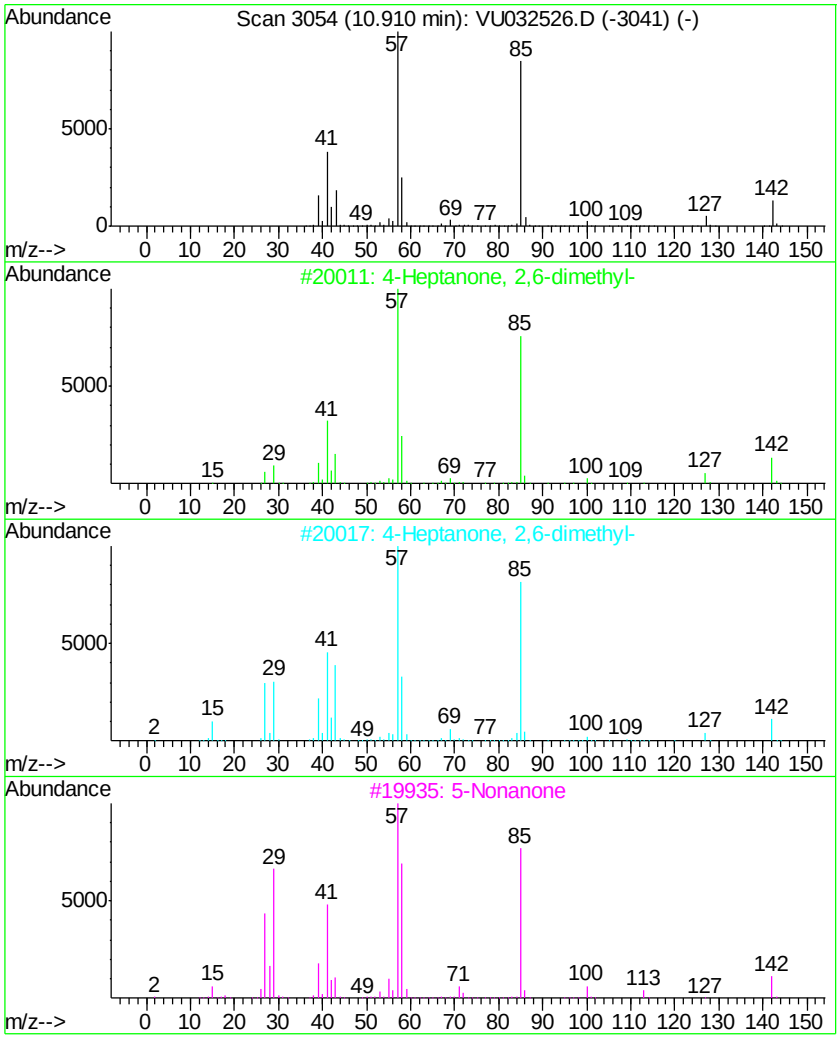
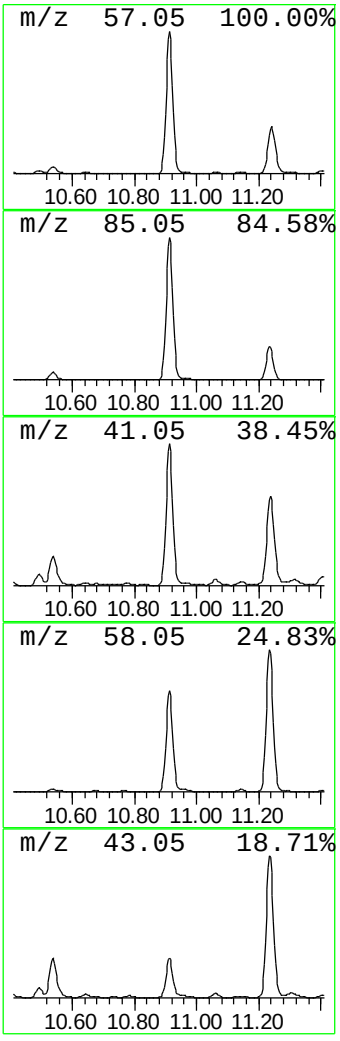
Peak Number 17 4-Heptanone, 2,6-dimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.91	209.55 ug/L	6254120	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Heptanone, 2,6-dimethyl-	142	C9H18O	000108-83-8	94
2	4-Heptanone, 2,6-dimethyl-	142	C9H18O	000108-83-8	91
3	5-Nonanone	142	C9H18O	000502-56-7	64
4	5-Nonanone	142	C9H18O	000502-56-7	64
5	t-Butyl isobutyl ketone	142	C9H18O	014705-50-1	59





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Sample : K3215-10
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J4

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Quant Title : VOC Analysis

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

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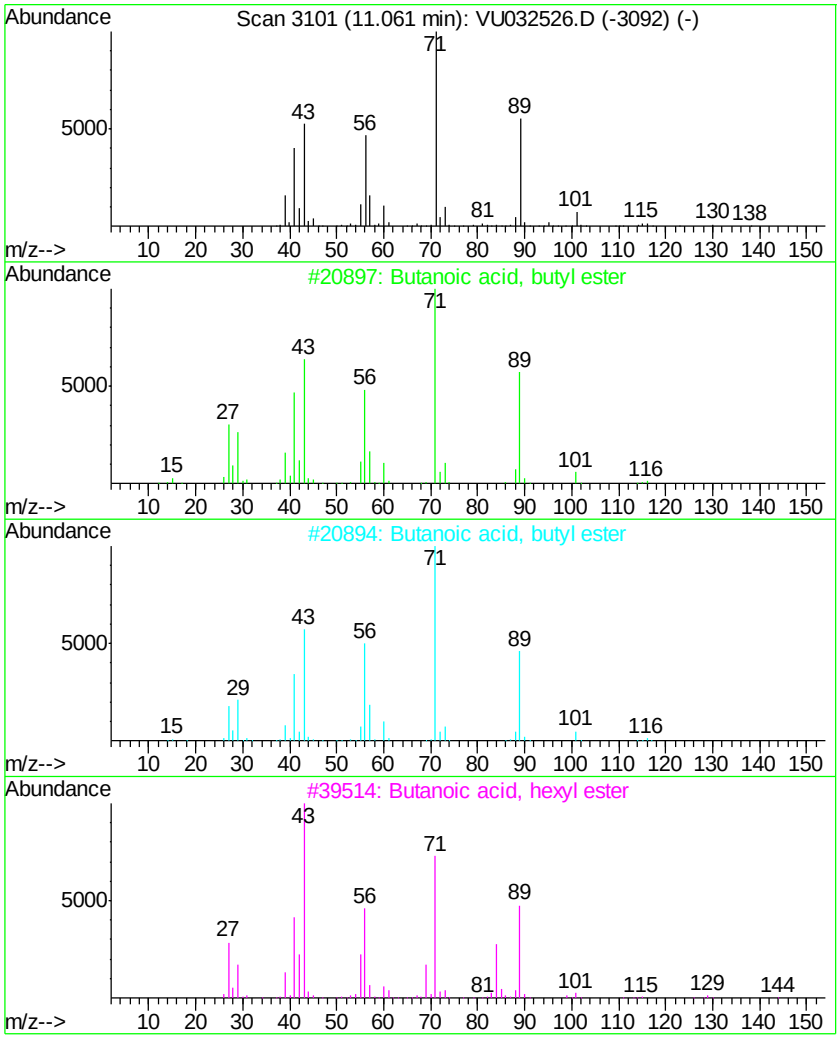
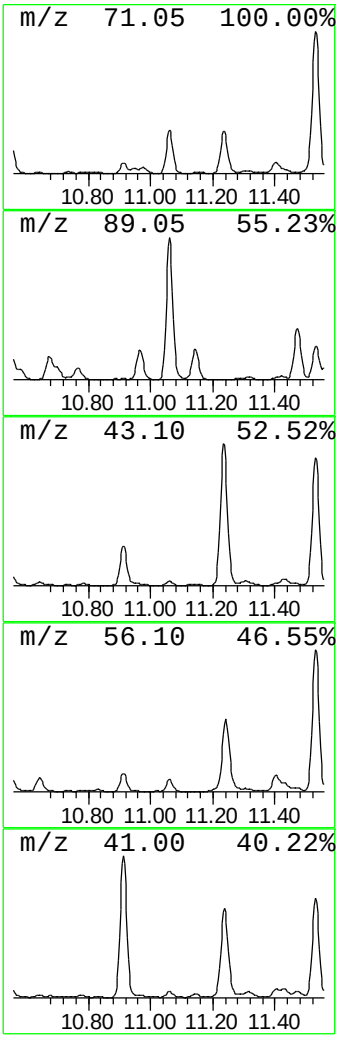
Peak Number 19 Butanoic acid, butyl ester Concentration Rank 57

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.06	10.80 ug/L	322223	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butanoic acid, butyl ester	144	C8H16O2	000109-21-7	90
2	Butanoic acid, butyl ester	144	C8H16O2	000109-21-7	90
3	Butanoic acid, hexyl ester	172	C10H20O2	002639-63-6	72
4	Propanoic acid, 2-methyl-, butyl...	144	C8H16O2	000097-87-0	72
5	Butanoic acid, 2-methylpropyl ester	144	C8H16O2	000539-90-2	72





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Operator : JC/SP
Sample : K3215-10
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J4

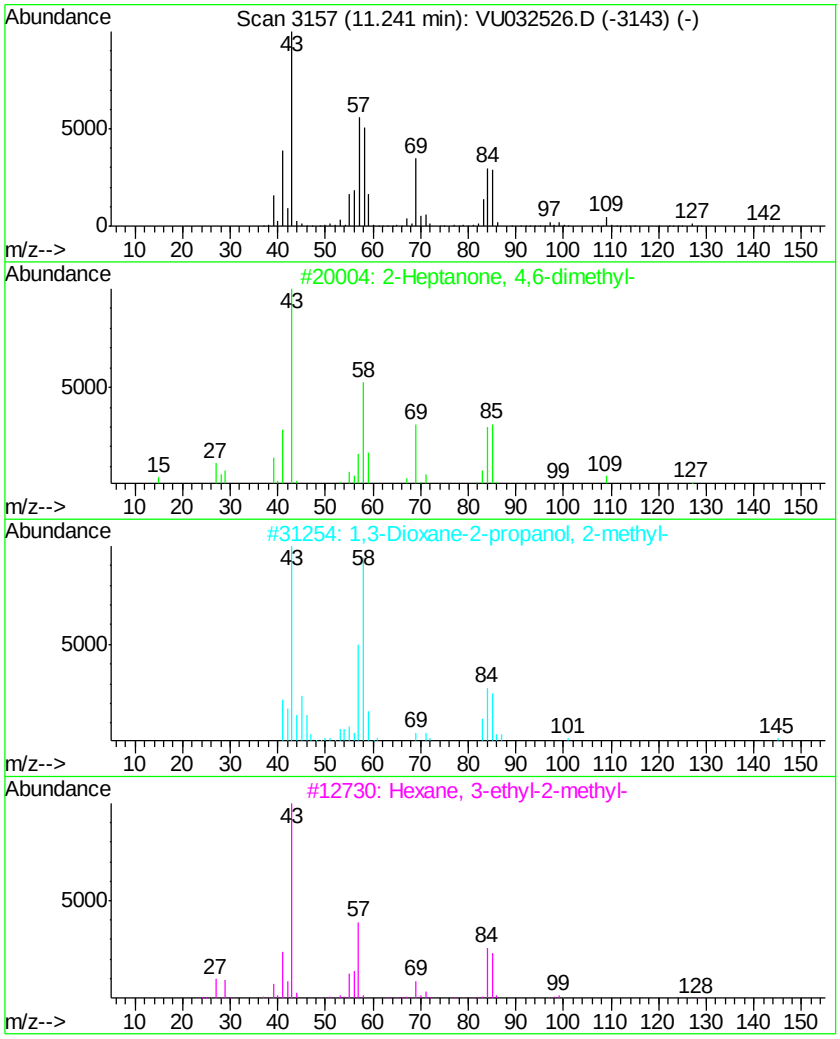
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

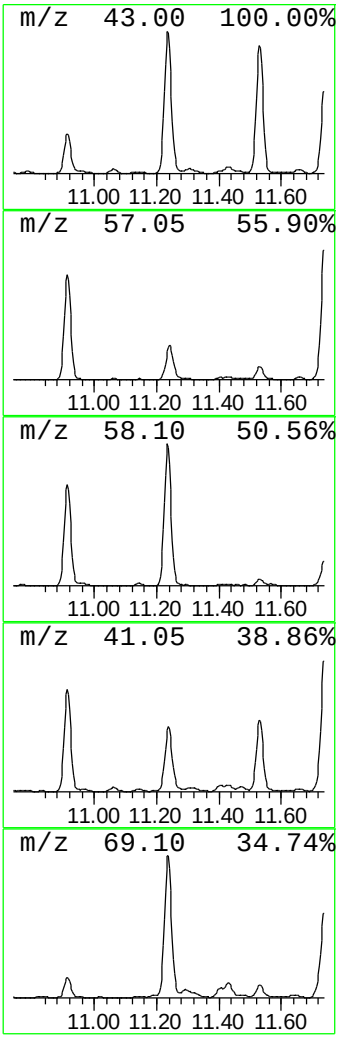
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 21 2-Heptanone, 4,6-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.24	197.53 ug/L	5895310	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	86
2	1,3-Dioxane-2-propanol, 2-methyl-	160	C8H16O3	036651-31-7	56
3	Hexane, 3-ethyl-2-methyl-	128	C9H20	016789-46-1	46
4	1-Octene, 4-methyl-	126	C9H18	013151-12-7	43
5	Pentane, 3-ethyl-2,4-dimethyl-	128	C9H20	001068-87-7	38





Library Search Compound Report

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Data File : VU032526.D
Acq On : 07 Jun 2019 03:16
Operator : JC/SP
Sample : K3215-10
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J4

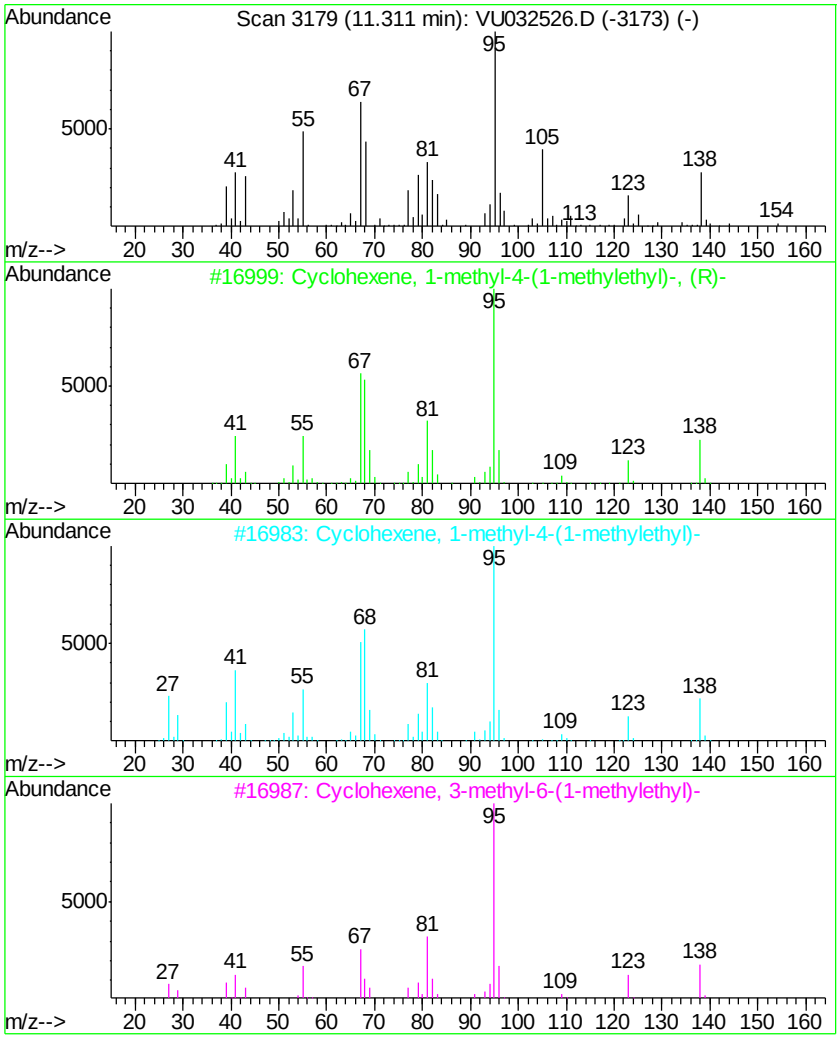
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

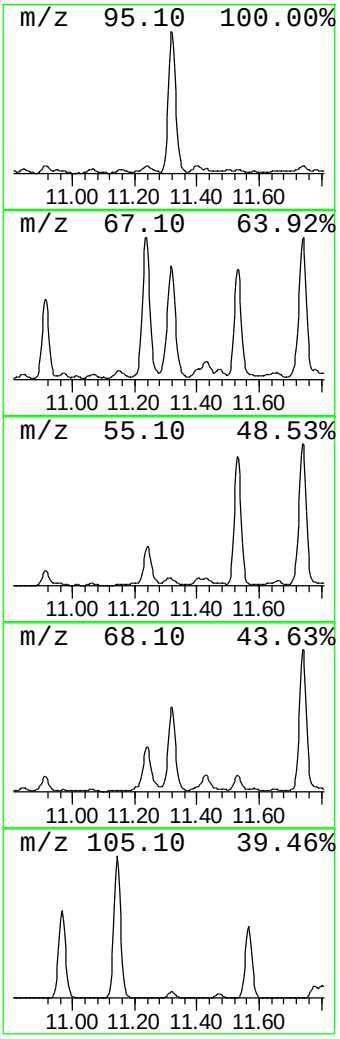
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 22 Cyclohexene, 1-methyl-4-(1-... Concentration Rank 37

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.31	21.92 ug/L	654161	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	94
2	Cyclohexene, 1-methyl-4-(1-methy...	138	C10H18	005502-88-5	90
3	Cyclohexene, 3-methyl-6-(1-methy...	138	C10H18	005256-65-5	87
4	Cyclohexene, 3-methyl-6-(1-methy...	138	C10H18	001124-26-1	87
5	Cyclohexene, 1-methyl-4-(1-methy...	138	C10H18	005502-88-5	81





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Operator : JC/SP
Sample : K3215-10
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J4

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

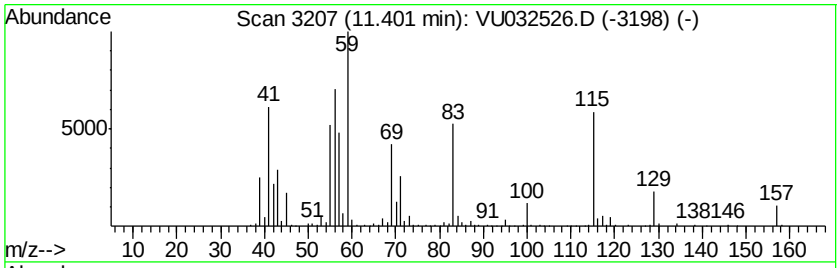
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

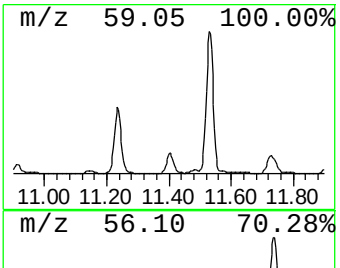
****

Peak Number 23 unknown-02 Concentration Rank 46

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.40	15.76 ug/L	470220	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Azidoacetic acid, methyl ester	115	C3H5N3O2	1000316-94-5	38
2	3-Octanol	130	C8H18O	000589-98-0	35
3	3-Heptanol, 4-methyl-	130	C8H18O	014979-39-6	32
4	3-Dodecanol	186	C12H26O	010203-30-2	32
5	Succinic acid, di(5-methoxy-3-me...	346	C18H34O6	1000330-16-4	27





Library Search Compound Report

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Operator : JC/SP
Sample : K3215-10
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J4

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

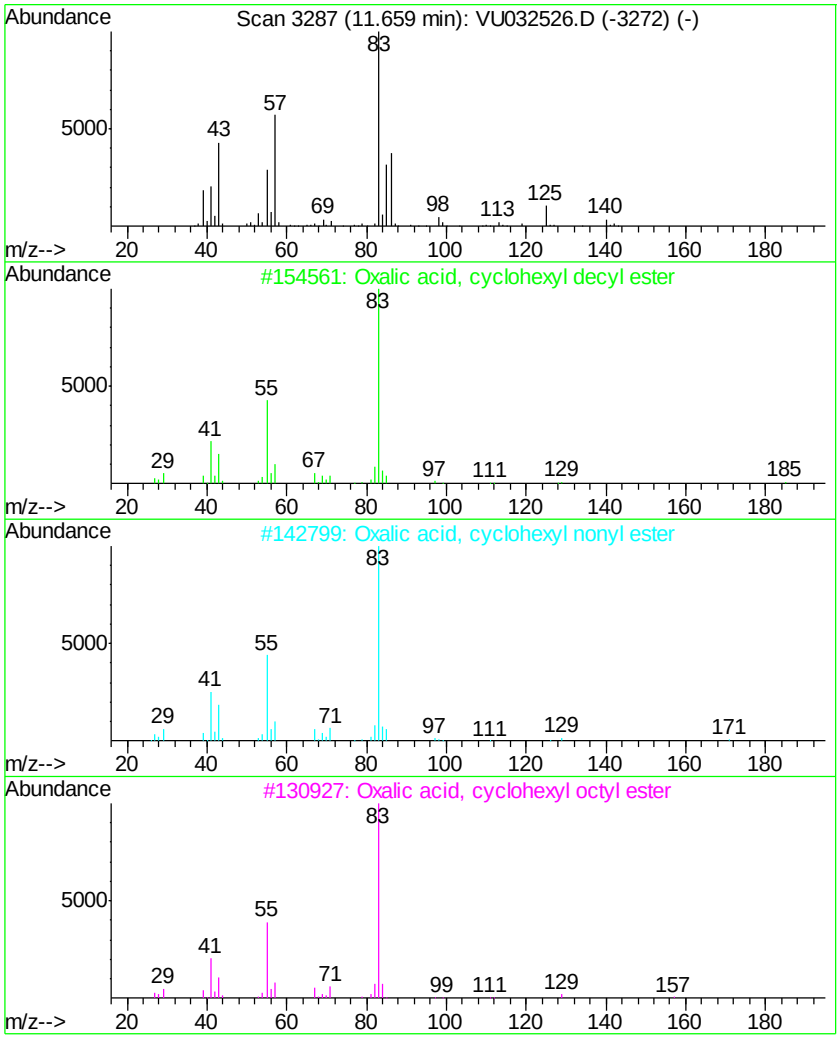
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

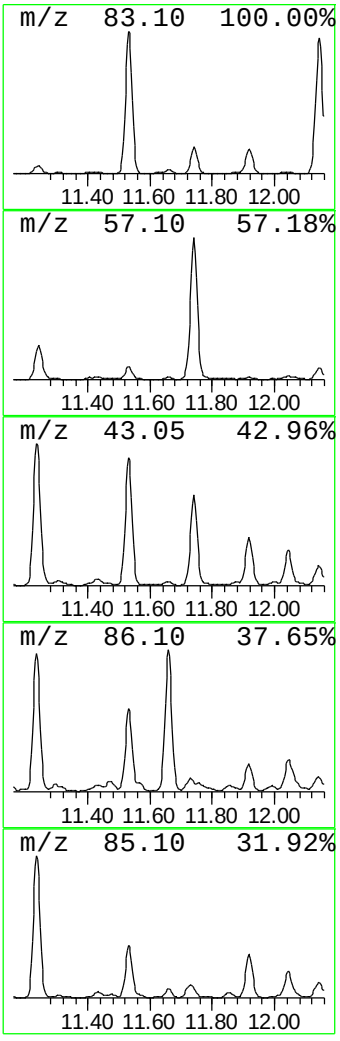
****

Peak Number 24 unknown-03 Concentration Rank 55

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.66	11.57 ug/L	345321	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxalic acid, cyclohexyl decyl ester	312	C18H32O4	1000309-31-2	43
2	Oxalic acid, cyclohexyl nonyl ester	298	C17H30O4	1000309-31-1	38
3	Oxalic acid, cyclohexyl octyl ester	284	C16H28O4	1000309-31-0	37
4	Oxalic acid, cyclohexyl isohexyl...	256	C14H24O4	1000309-30-7	37
5	2,6-Dimethyl-6-nitro-2-hepten-4-one	185	C9H15NO3	073583-56-9	32





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Acq On : 07 Jun 2019 03:16
Operator : JC/SP
Sample : K3215-10
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J4

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

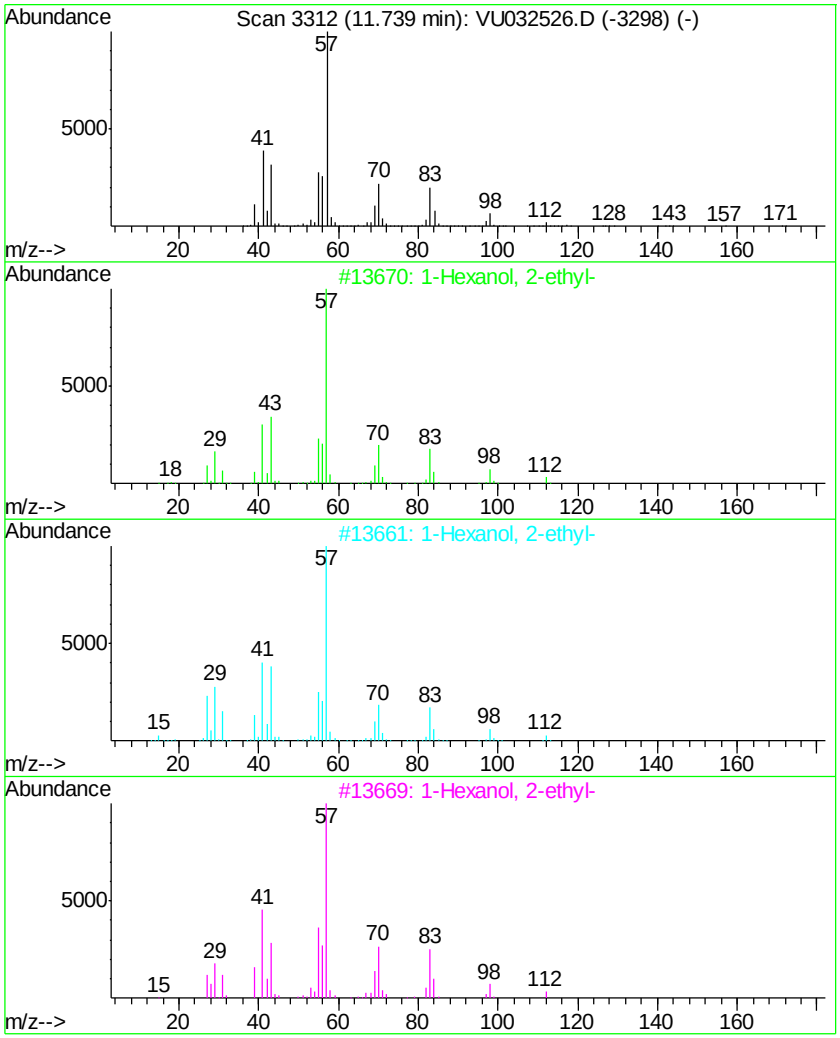
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

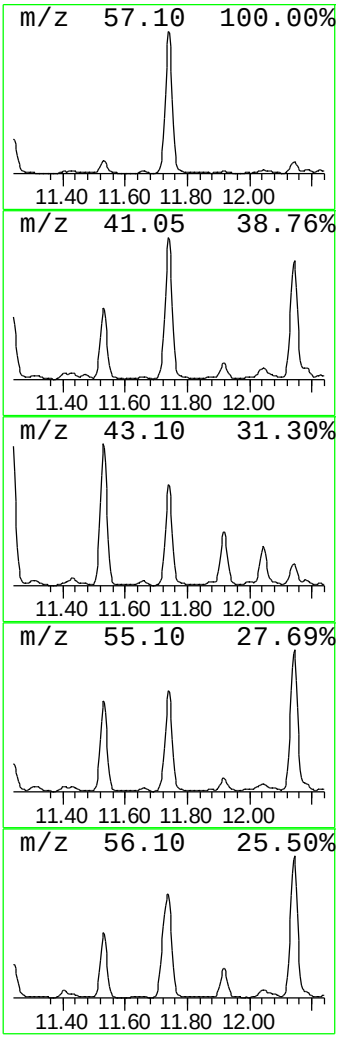
****

Peak Number 25 1-Hexanol, 2-ethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.74	331.44 ug/L	9891960	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hexanol, 2-ethyl-	130	C8H18O	000104-76-7	83
2	1-Hexanol, 2-ethyl-	130	C8H18O	000104-76-7	74
3	1-Hexanol, 2-ethyl-	130	C8H18O	000104-76-7	64
4	Heptyl isobutyl carbonate	216	C12H24O3	959068-08-7	59
5	1-Decene, 2,4-dimethyl-	168	C12H24	055170-80-4	53





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Acq On : 07 Jun 2019 03:16
Operator : JC/SP
Sample : K3215-10
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J4

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

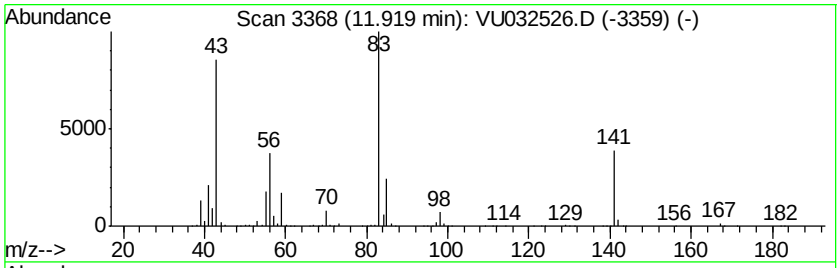
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

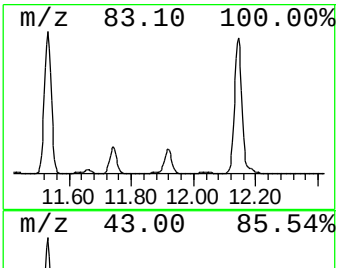
****

Peak Number 26 unknown-04 Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.92	67.87 ug/L	2025670	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Hexen-1-ol, 2,5-dimethyl-, for...	156	C9H16O2	1000132-12-3	43
2	1H-1,2,4-Triazole, 3-methyl-	83	C3H5N3	007170-01-6	32
3	1-Methyl-1H-1,2,4-triazole	83	C3H5N3	006086-21-1	32
4	Tetrahydropyrrolo[2,1-c][1,4]oxa...	141	C7H11NO2	101250-37-7	28
5	1,4-Pentadien-3-ol	84	C5H8O	000922-65-6	25





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Operator : JC/SP
Sample : K3215-10
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J4

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

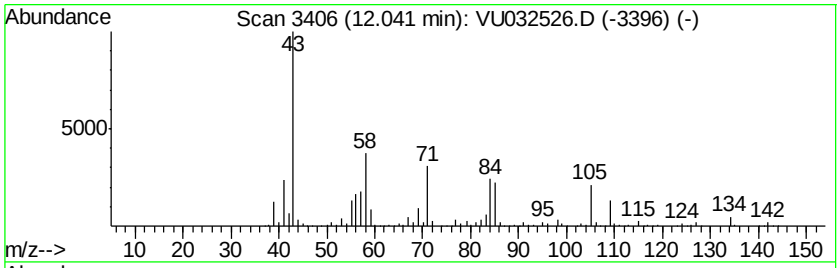
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

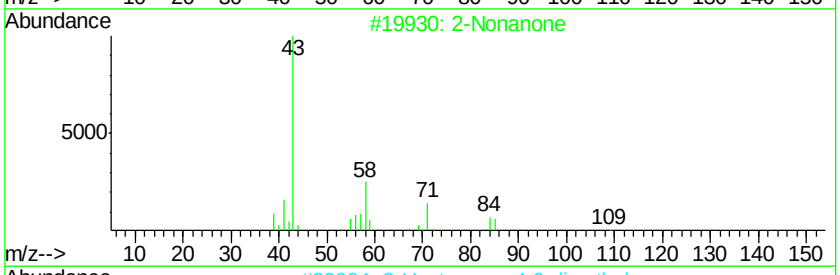
****

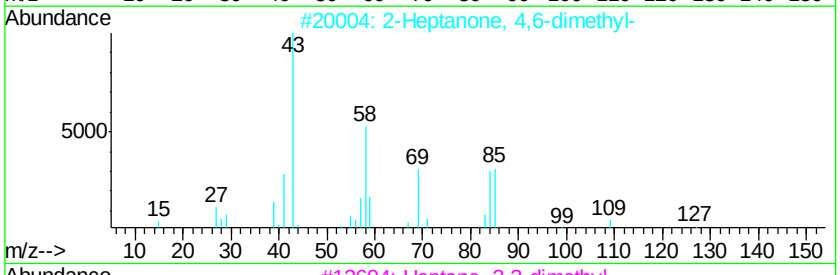
Peak Number 27 2-Nonanone Concentration Rank 15

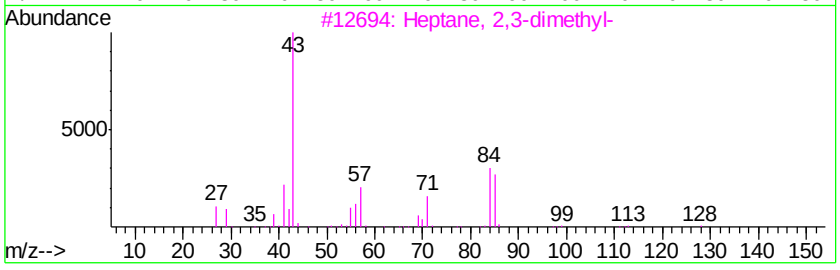
R.T.	EstConc	Area	Relative to ISTD	R.T.
12.04	56.35 ug/L	1681810	1,4-Dichlorobenzene-d4	11.48

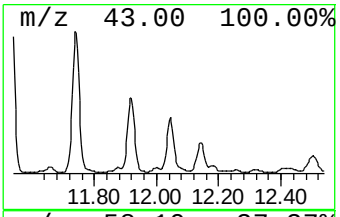
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Nonanone	142	C9H18O	000821-55-6	53
2	2-Heptanone, 4,6-dimethyl-	142	C9H18O	019549-80-5	38
3	Heptane, 2,3-dimethyl-	128	C9H20	003074-71-3	35
4	2,7-Octanedione	142	C8H14O2	001626-09-1	27
5	1-Octene, 4-methyl-	126	C9H18	013151-12-7	22

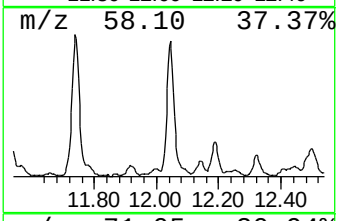


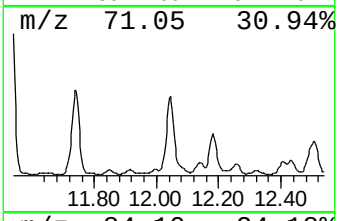


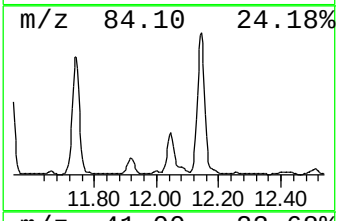


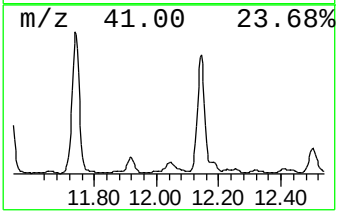












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Data File : VU032526.D
Acq On : 07 Jun 2019 03:16
Operator : JC/SP
Sample : K3215-10
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J4

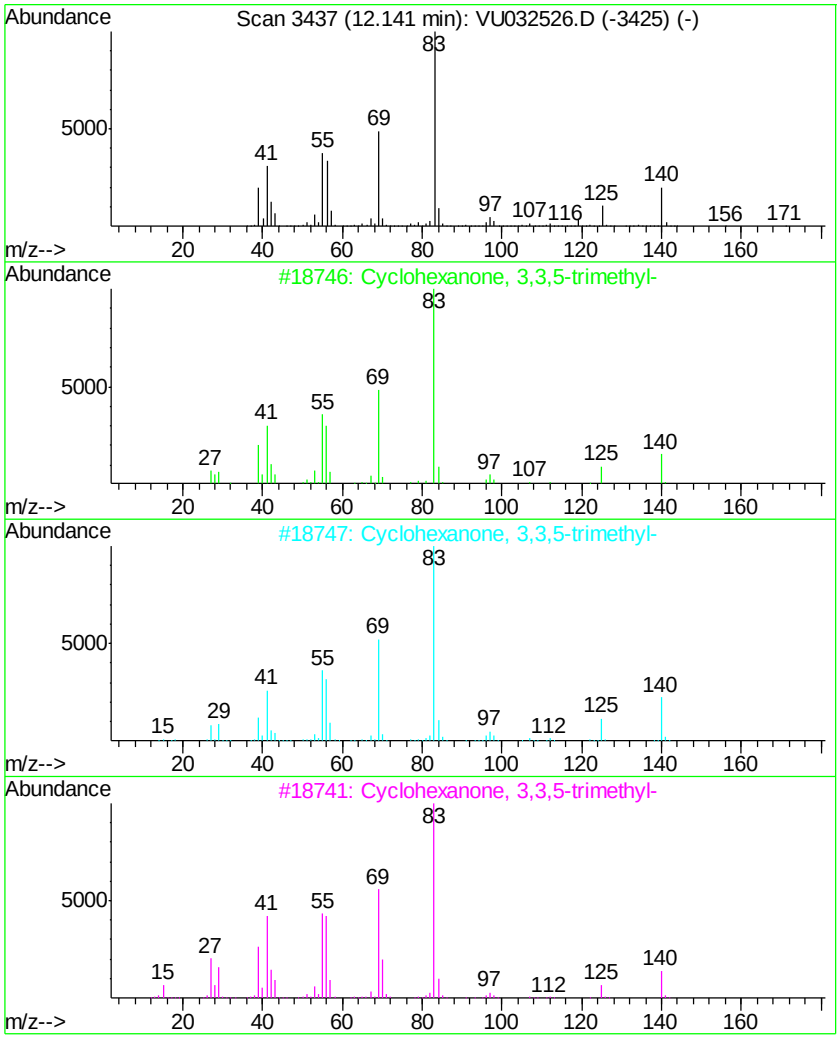
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

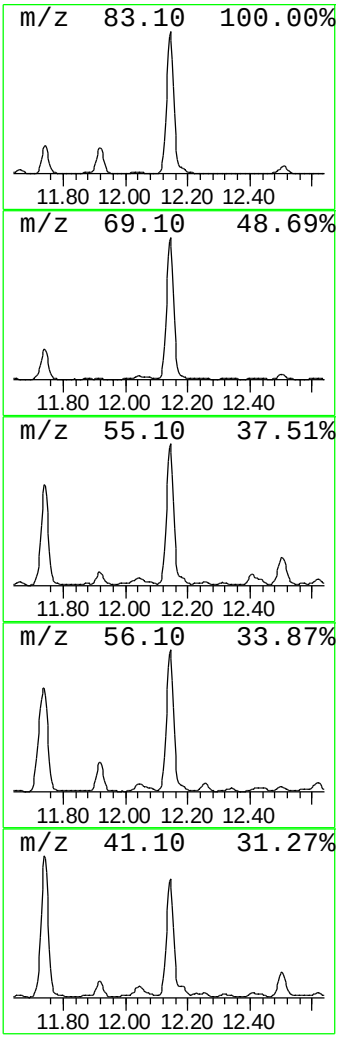
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 28 Cyclohexanone, 3,3,5-trimet... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.14	366.16 ug/L	10928400	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	Cyclohexane, butyl-	140	C10H20	001678-93-9	64
5	1,3-Cyclohexanedione, 5,5-dimethyl-	140	C8H12O2	000126-81-8	50





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Sample : K3215-10
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J4

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

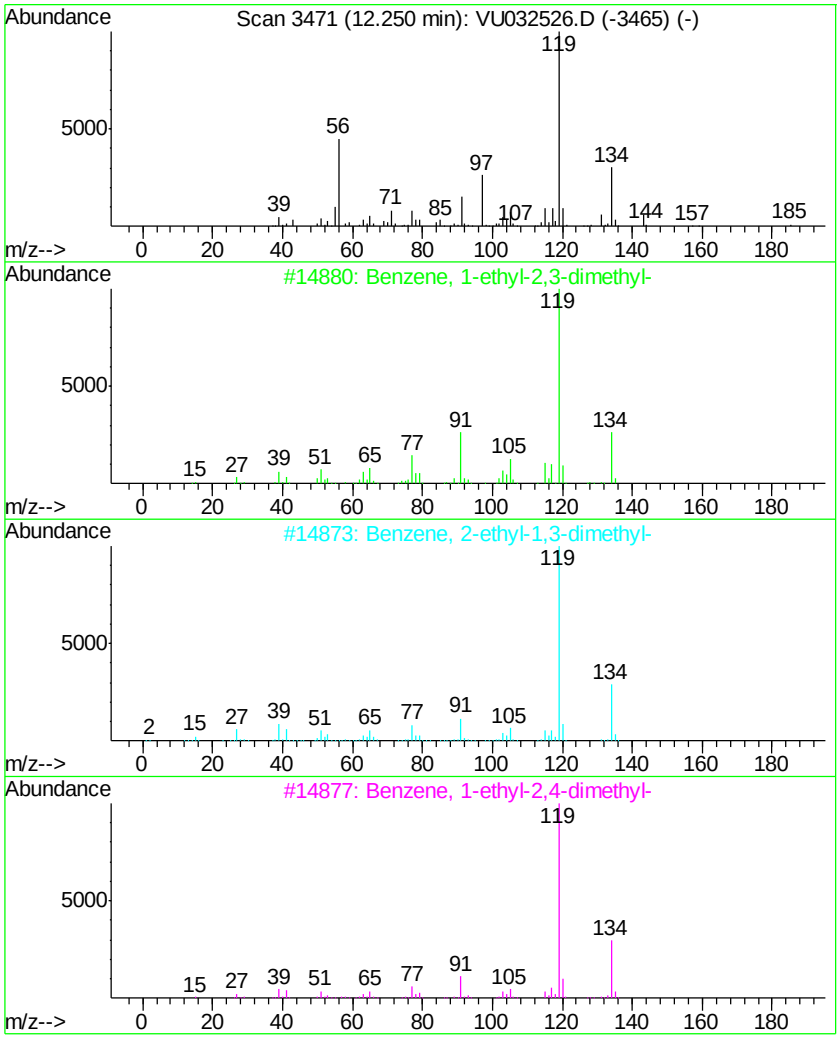
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

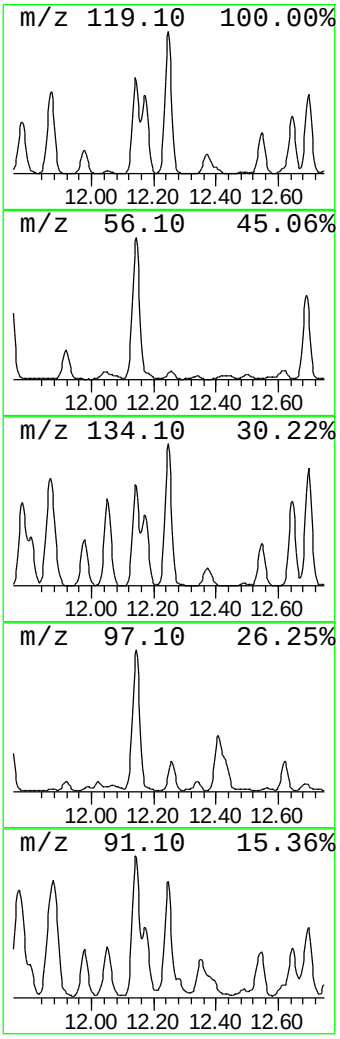
****

Peak Number 29 Benzene, 1-ethyl-2,3-dimethyl- Concentration Rank 41

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.25	18.54 ug/L	553277	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	92
2	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	91
3	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	91
4	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	90
5	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	90





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Data File : VU032526.D
Acq On : 07 Jun 2019 03:16
Operator : JC/SP
Sample : K3215-10
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J4

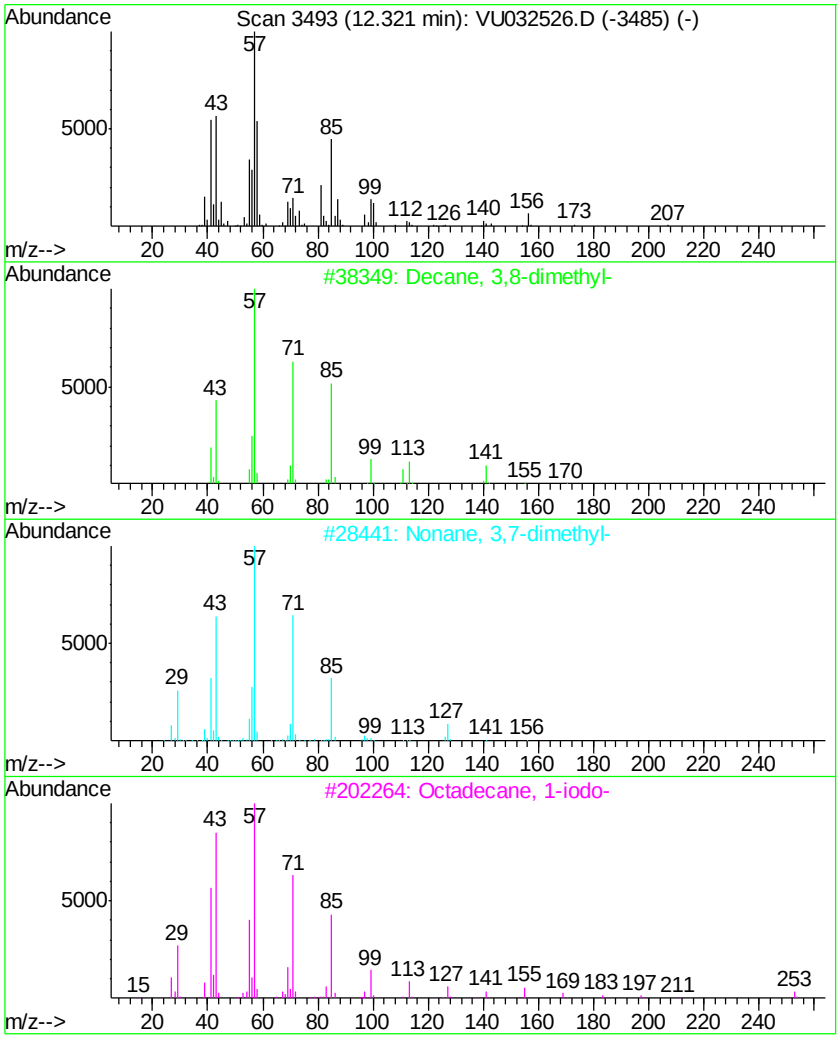
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

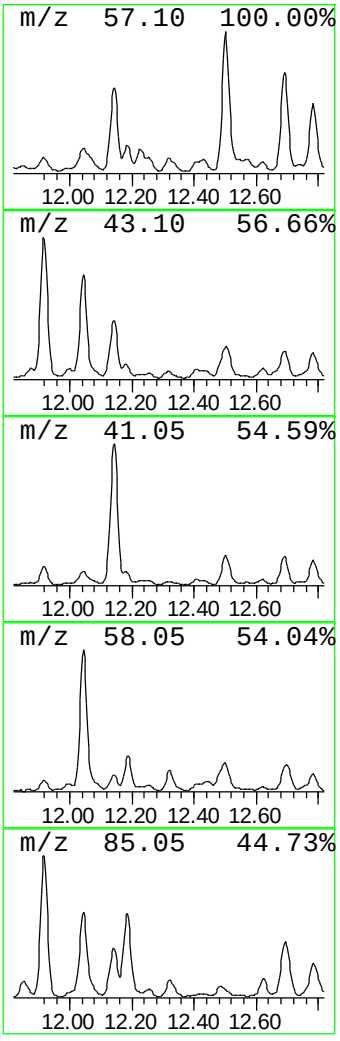
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 30 (DEL) Alkane: Straight-Chai... Concentration Rank 71

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.32	5.76 ug/L	171897	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane, 3,8-dimethyl-	170	C12H26	017312-55-9	43
2	Nonane, 3,7-dimethyl-	156	C11H24	017302-32-8	38
3	Octadecane, 1-iodo-	380	C18H37I	000629-93-6	35
4	1,2,4,3,5-Trioxadiborolane, 3,5-...	100	C2H6B2O3	031083-12-2	35
5	Dodecane, 2-methyl-	184	C13H28	001560-97-0	35





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Data File : VU032526.D
Acq On : 07 Jun 2019 03:16
Operator : JC/SP
Sample : K3215-10
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J4

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

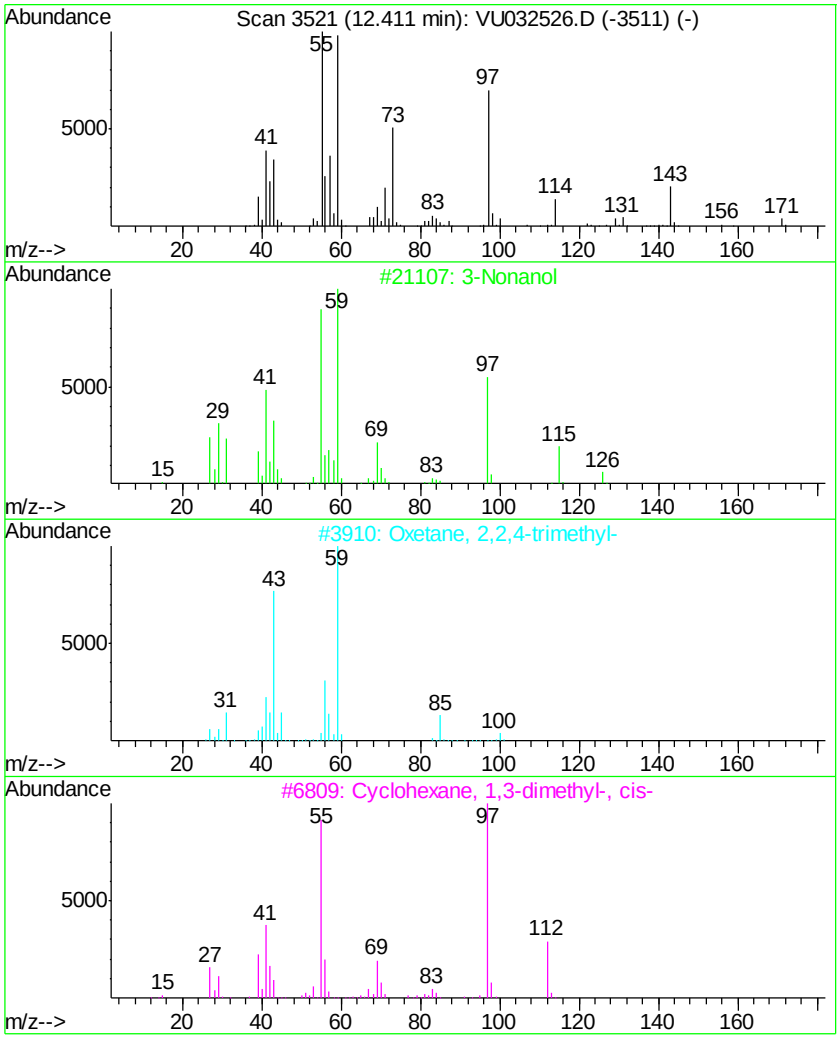
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

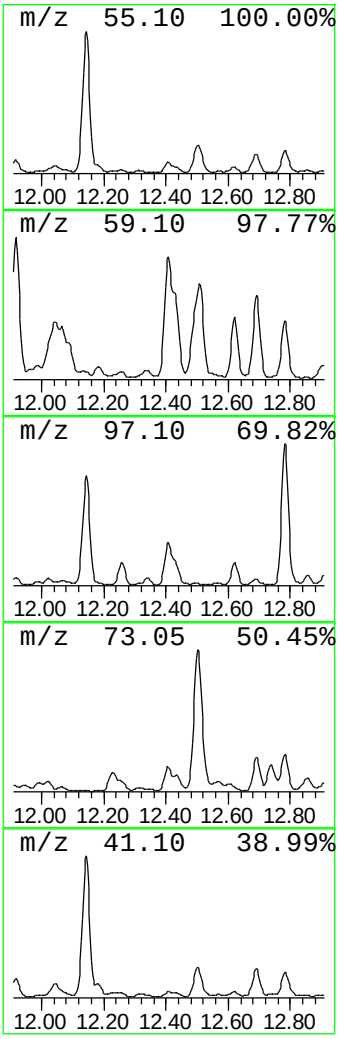
****

Peak Number 31 3-Nonanol Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.41	24.40 ug/L	728102	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Nonanol	144	C9H20O	000624-51-1	53
2	Oxetane, 2,2,4-trimethyl-	100	C6H12O	023120-44-7	35
3	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	22
4	1-Cyclohexylethanol, methyl ether	142	C9H18O	1000365-12-8	22
5	2-Hydroxy-2,4-dimethyl-3-pentanone	130	C7H14O2	003212-67-7	22





Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU060619\
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Acq On : 07 Jun 2019 03:16
Operator : JC/SP
Sample : K3215-10
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J4

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

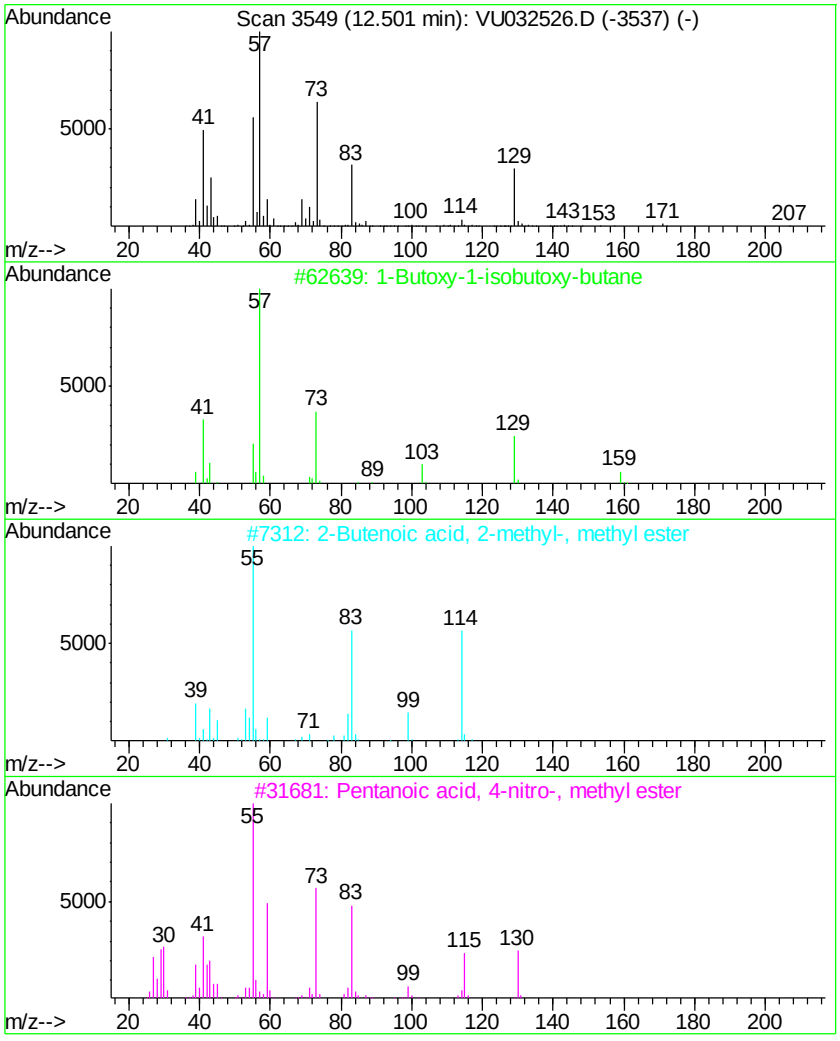
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

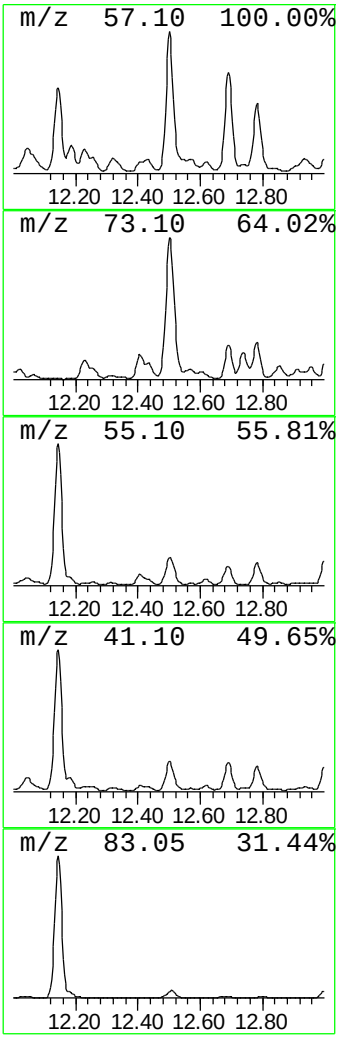
****

Peak Number 32 unknown-05 Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.50	77.21 ug/L	2304530	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Butoxy-1-isobutoxy-butane	202	C12H26O2	020266-12-0	37
2	2-Butenoic acid, 2-methyl-, meth...	114	C6H10O2	041725-90-0	27
3	Pentanoic acid, 4-nitro-, methyl...	161	C6H11NO4	010312-37-5	25
4	3-Trifluoroacetoxy-6-ethyldecane	282	C14H25F3O2	116436-59-0	23
5	Methyl tiglate	114	C6H10O2	006622-76-0	22





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Data File : VU032526.D
Acq On : 07 Jun 2019 03:16
Operator : JC/SP
Sample : K3215-10
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J4

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

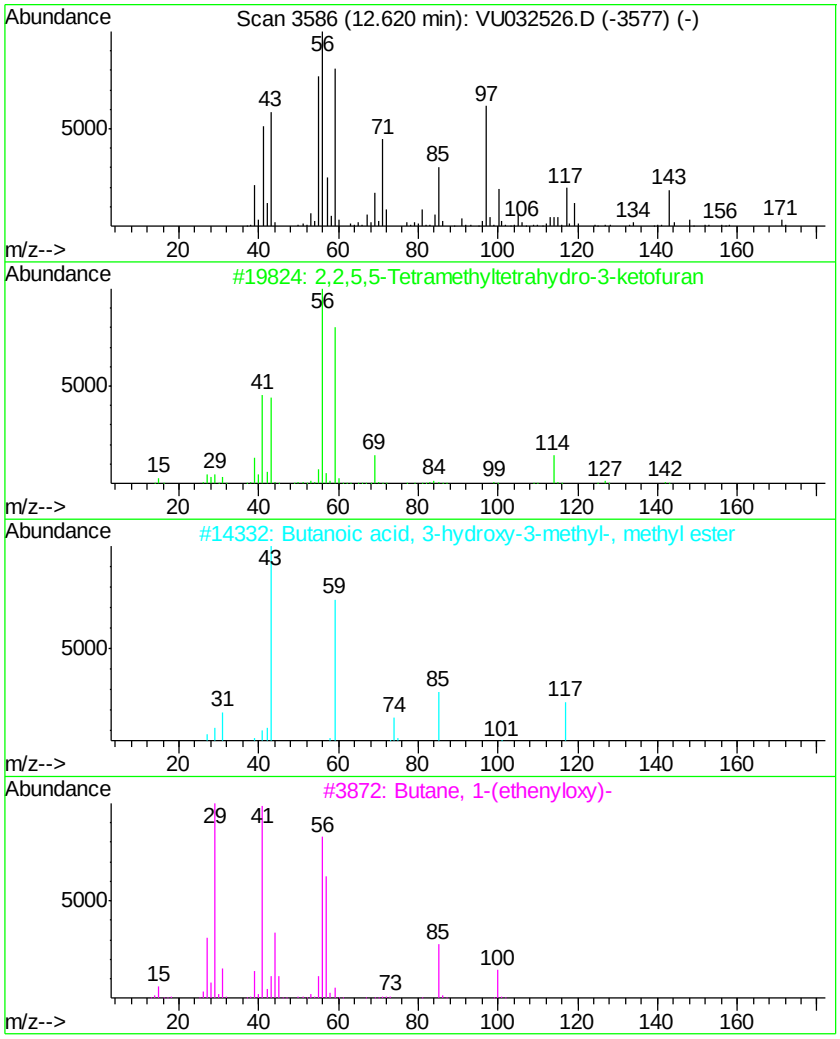
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

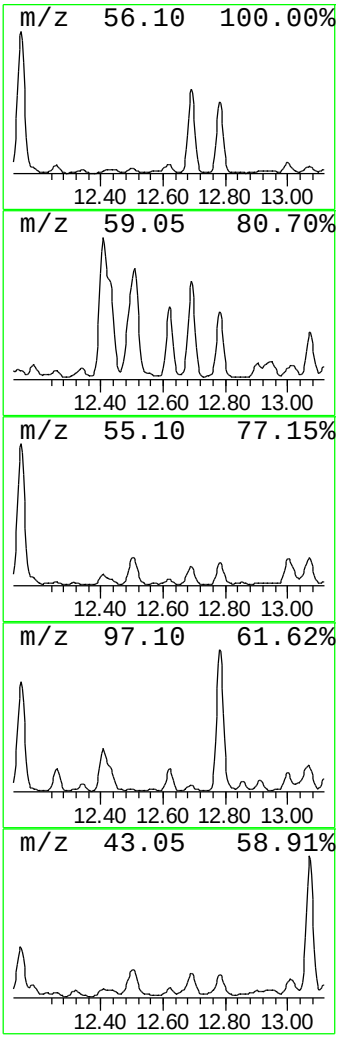
****

Peak Number 33 unknown-06 Concentration Rank 52

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.62	13.16 ug/L	392736	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,2,5,5-Tetramethyltetrahydro-3-...	142	C8H14O2	005455-94-7	38
2	Butanoic acid, 3-hydroxy-3-methy...	132	C6H12O3	006149-45-7	22
3	Butane, 1-(ethenyloxy)-	100	C6H12O	000111-34-2	22
4	Butane, 1-(ethenyloxy)-	100	C6H12O	000111-34-2	22
5	3-Azetidinol, 1-(1-methylethyl)-	115	C6H13NO	013156-06-4	18





Library Search Compound Report

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Data File : VU032526.D
Acq On : 07 Jun 2019 03:16
Operator : JC/SP
Sample : K3215-10
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J4

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

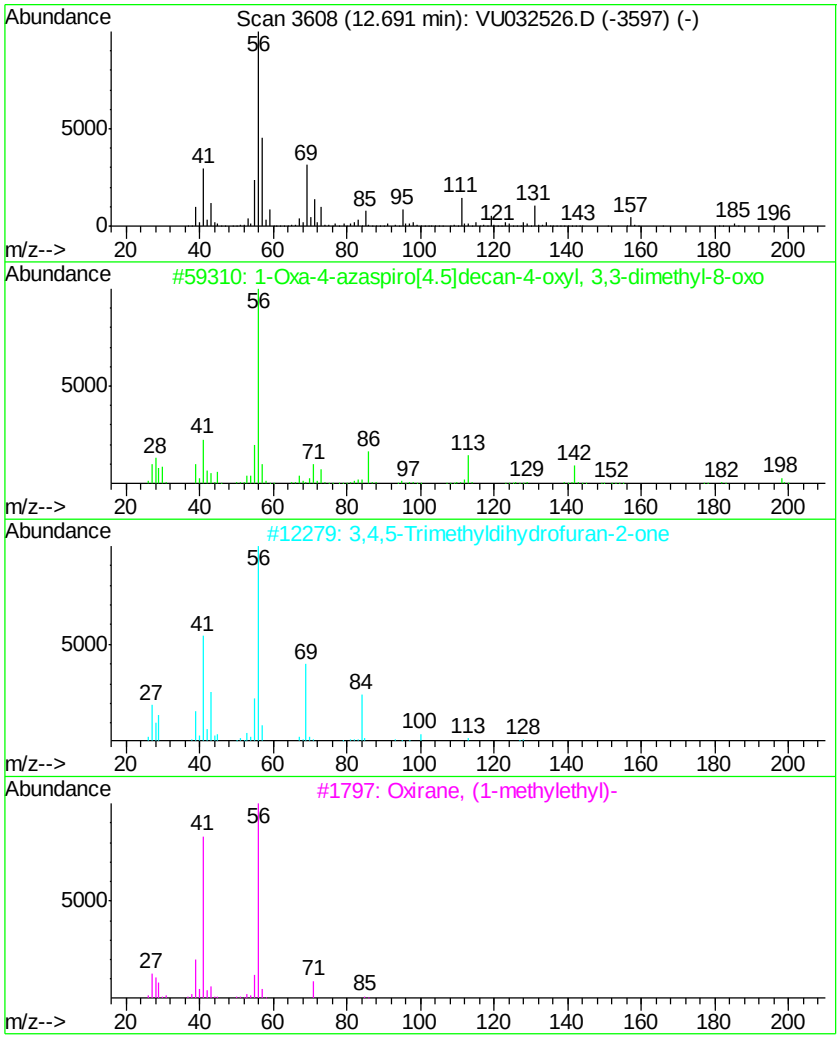
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

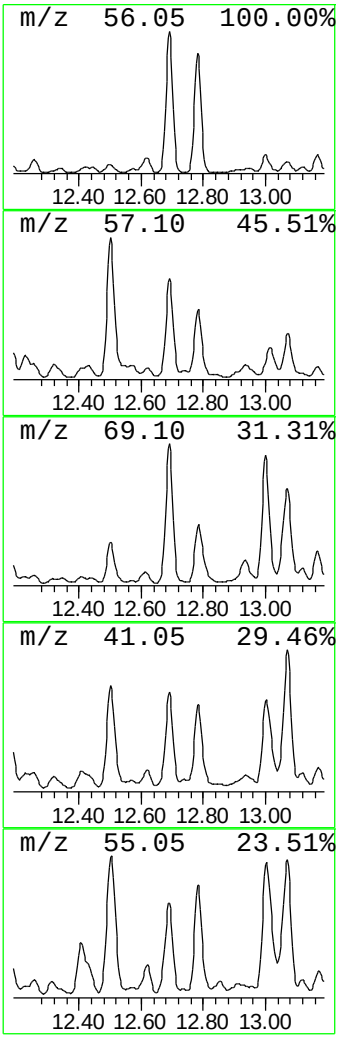
****

Peak Number 34 1-Oxa-4-azaspiro[4.5]decan-... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.69	80.50 ug/L	2402730	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	3,4,5-Trimethyldihydrofuran-2-one	128	C7H12O2	1000194-05-2	43
3	Oxirane, (1-methylethyl)-	86	C5H10O	001438-14-8	38
4	Cyclopentanamine	85	C5H11N	001003-03-8	37
5	1-Hexene, 2,5-dimethyl-	112	C8H16	006975-92-4	37





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Data File : VU032526.D
Acq On : 07 Jun 2019 03:16
Operator : JC/SP
Sample : K3215-10
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J4

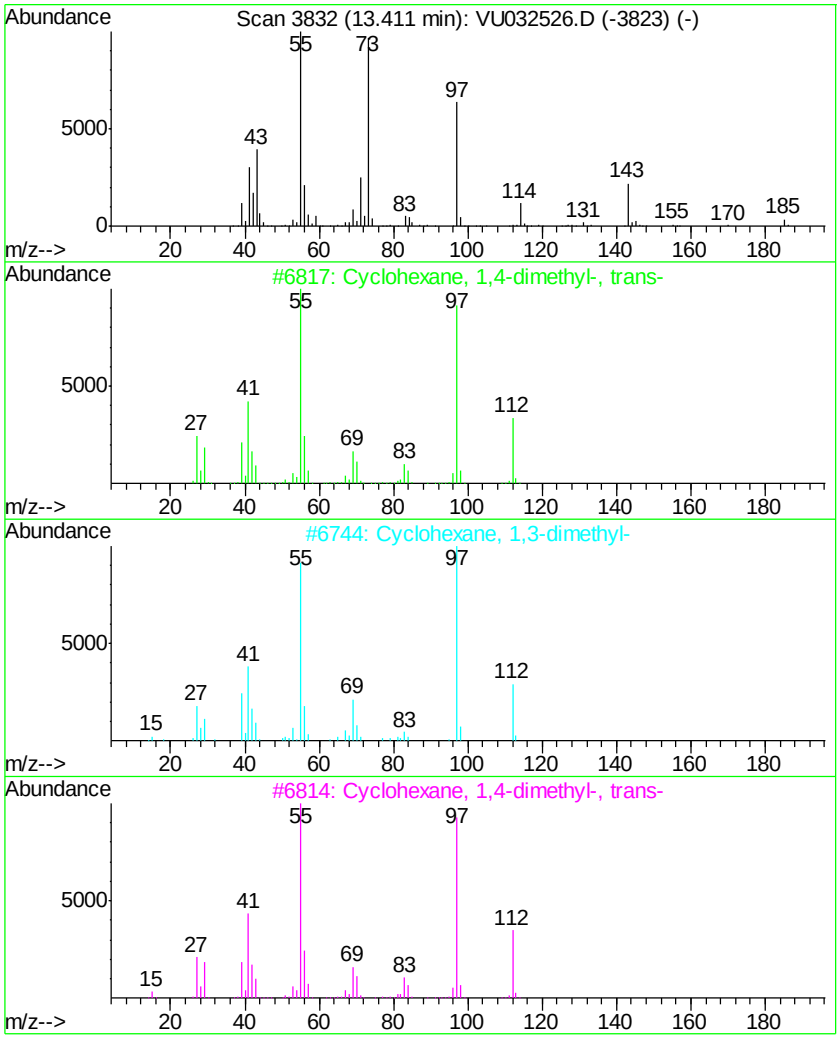
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

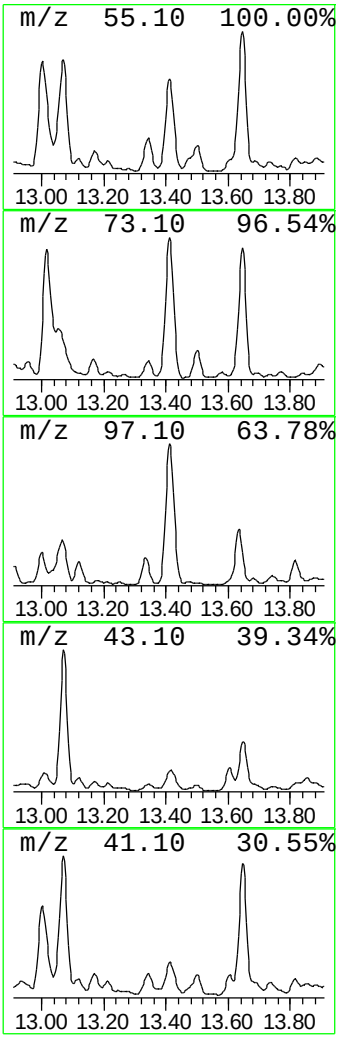
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 43 (DEL) Alkane: Cyclic13.41 Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.41	36.54 ug/L	1090570	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,4-dimethyl-, trans-	112	C8H16	002207-04-7	38
2	Cyclohexane, 1,3-dimethyl-	112	C8H16	000591-21-9	38
3	Cyclohexane, 1,4-dimethyl-, trans-	112	C8H16	002207-04-7	38
4	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	38
5	Sulfurous acid, cyclohexylmethyl...	402	C23H46O3S	1000309-22-4	38





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU060619\
Data File : VU032526.D
Acq On : 07 Jun 2019 03:16
Operator : JC/SP
Sample : K3215-10
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J4

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

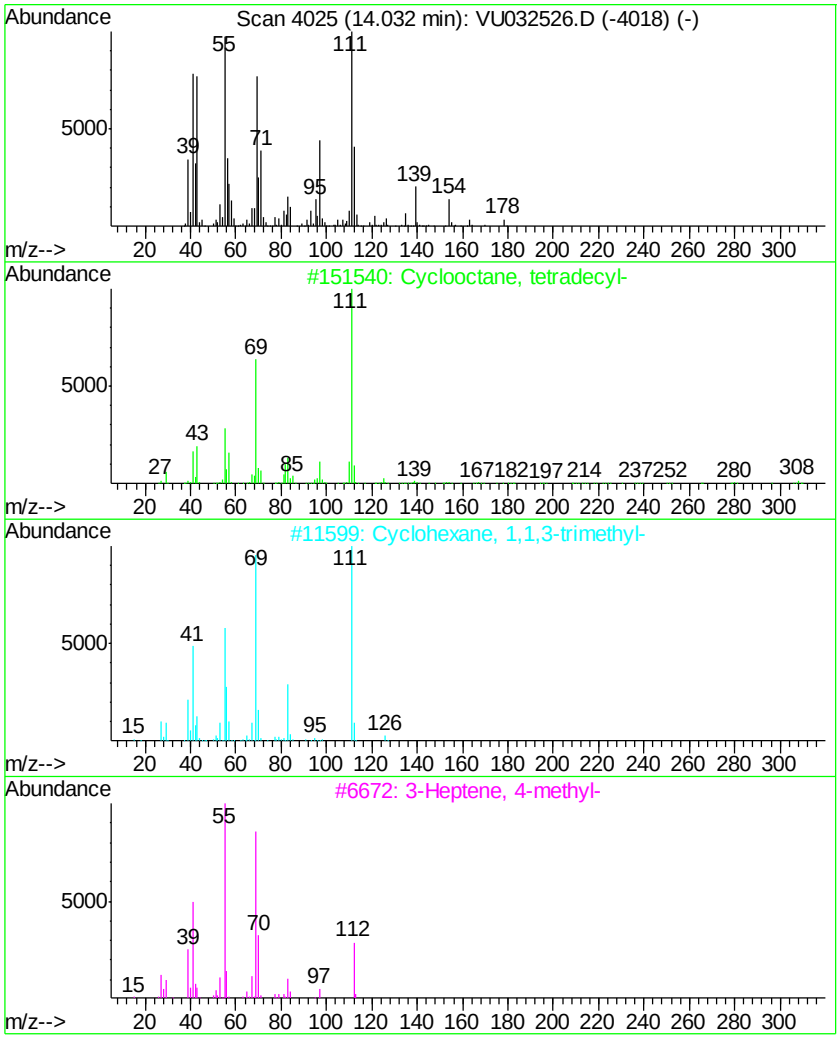
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

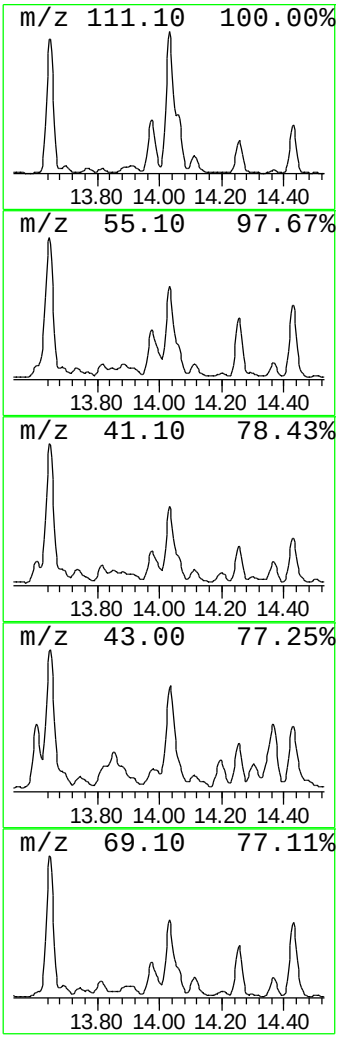
****

Peak Number 50 (DEL) Alkane: Cyclic14.03 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.03	65.06 ug/L	1941730	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclooctane, tetradecyl-	308	C22H44	149003-36-1	43
2	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	43
3	3-Heptene, 4-methyl-	112	C8H16	004485-16-9	42
4	3-Hexen-2-one, 3-methyl-	112	C7H12O	001187-80-0	38
5	3-Heptene, 4-methyl-	112	C8H16	004485-16-9	30





Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU060619\
Data File : VU032526.D
Acq On : 07 Jun 2019 03:16
Operator : JC/SP
Sample : K3215-10
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J4

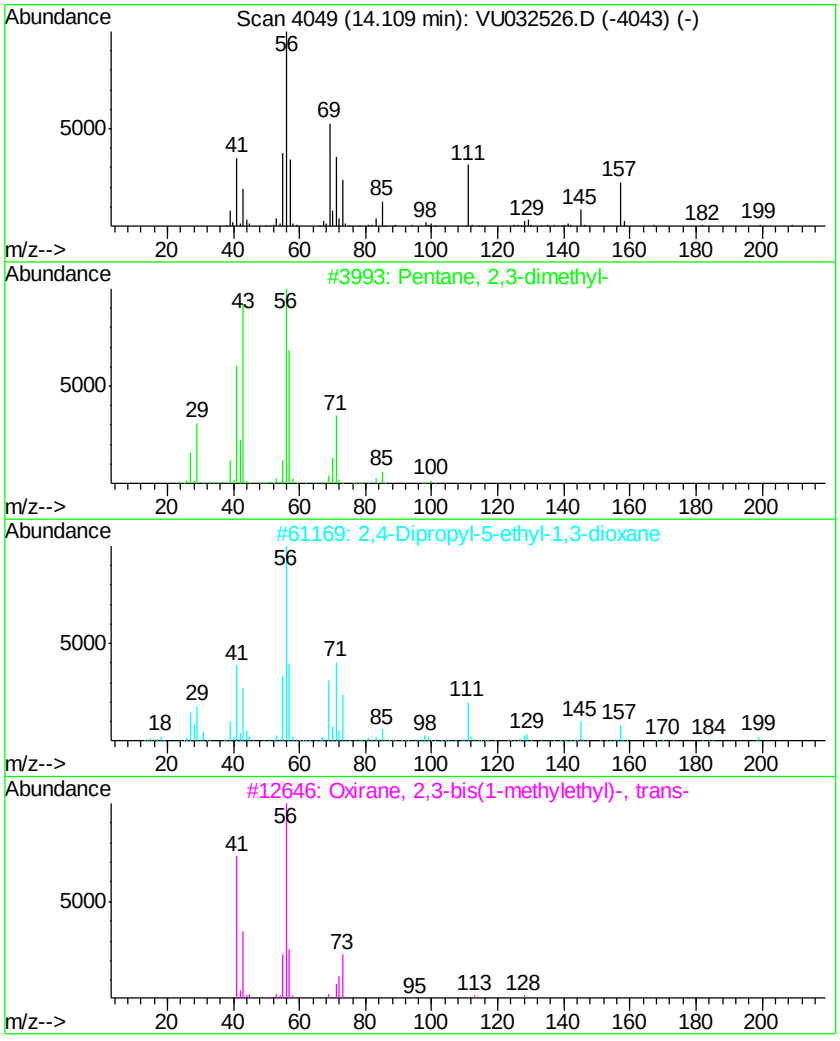
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

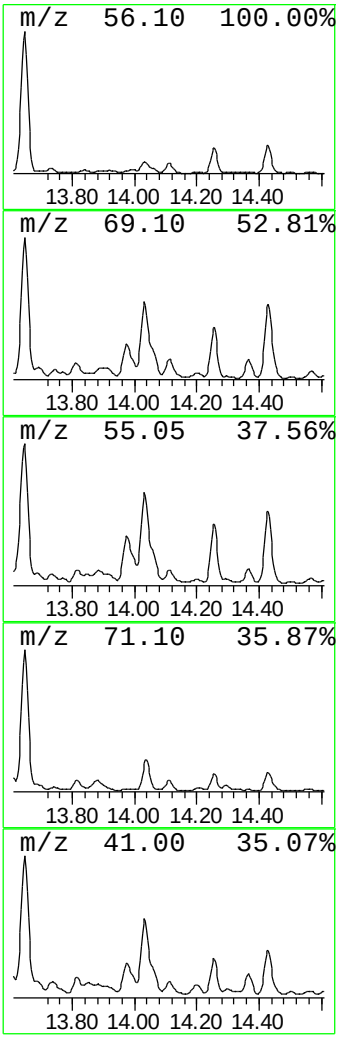
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 51 (DEL) Alkane: Straight-Chai... Concentration Rank 60

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.11	9.96 ug/L	297258	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	47
2	2,4-Dipropyl-5-ethyl-1,3-dioxane	200	C12H24O2	006413-83-8	45
3	Oxirane, 2,3-bis(1-methylethyl)-...	128	C8H16O	054644-32-5	43
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	43
5	1,3-Pentanediol, 2,2,4-trimethyl-	146	C8H18O2	000144-19-4	40





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Data File : VU032526.D
Acq On : 07 Jun 2019 03:16
Operator : JC/SP
Sample : K3215-10
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J4

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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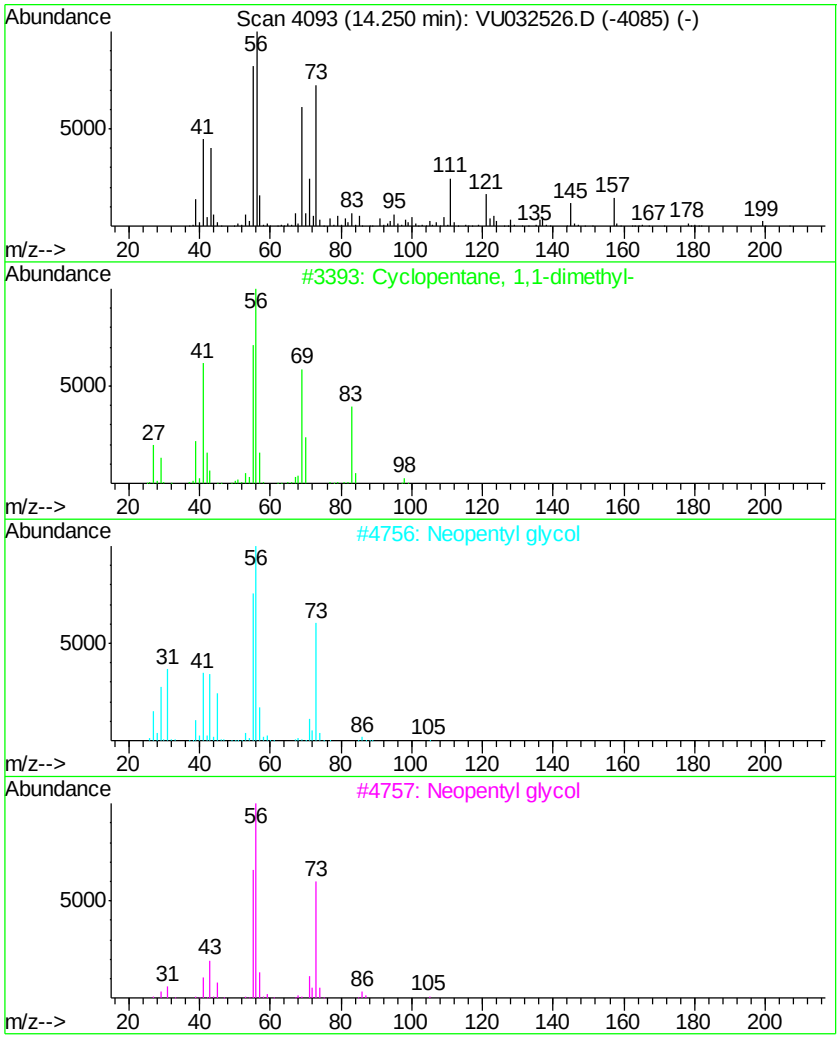
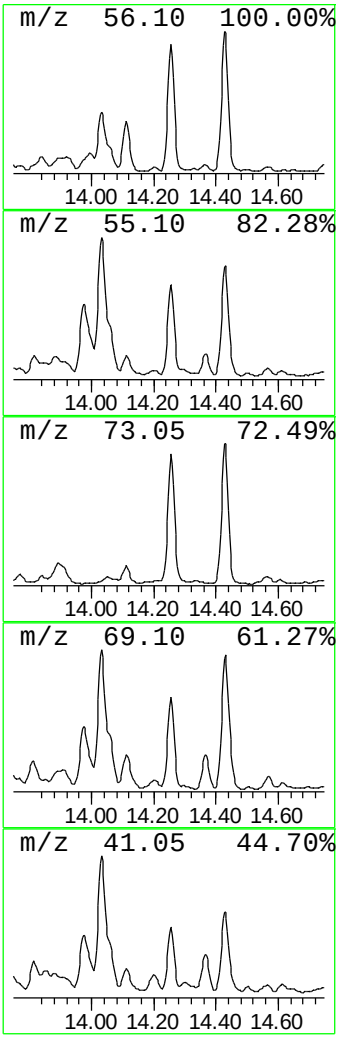
Peak Number 53 (DEL) Alkane: Cyclic14.25 Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.25	26.41 ug/L	788242	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	43
2	Neopentyl glycol	104	C5H12O2	000126-30-7	40
3	Neopentyl glycol	104	C5H12O2	000126-30-7	40
4	Pentanal, 3-methyl-	100	C6H12O	015877-57-3	38
5	Hexyl trifluoroacetate	198	C8H13F3O2	000400-61-3	32





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Data File : VU032526.D
Acq On : 07 Jun 2019 03:16
Operator : JC/SP
Sample : K3215-10
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J4

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

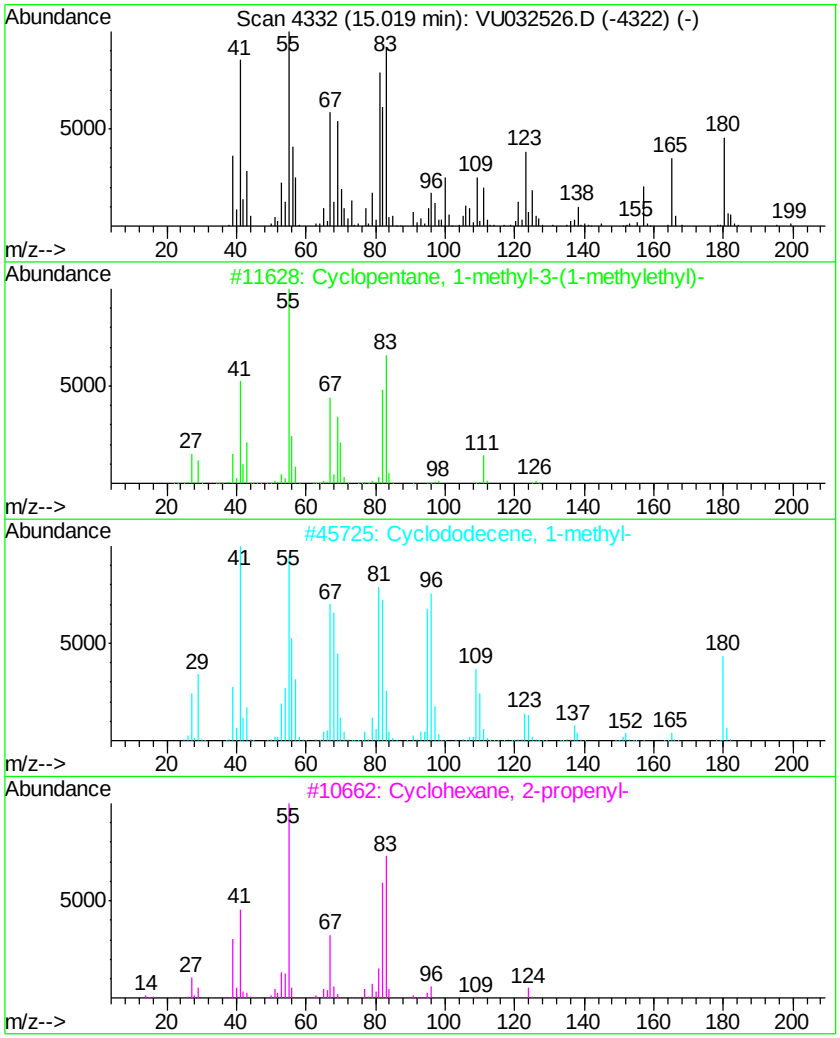
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

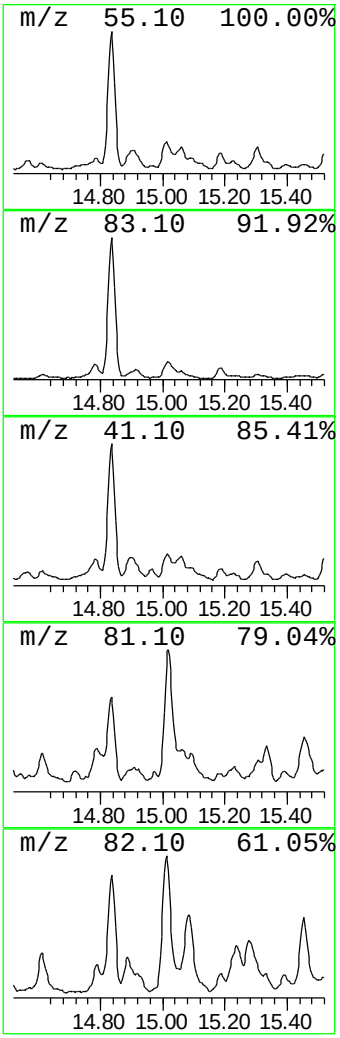
****

Peak Number 60 (DEL) Alkane: Cyclic15.02 Concentration Rank 64

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.02	8.95 ug/L	267172	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1-methyl-3-(1-meth...	126	C9H18	053771-88-3	43
2	Cyclododecene, 1-methyl-	180	C13H24	023070-53-3	35
3	Cyclohexane, 2-propenyl-	124	C9H16	002114-42-3	30
4	Bicyclo[3.1.1]heptan-2-one, 6,6-...	138	C9H14O	038651-65-9	27
5	Cyclohexanemethanol	114	C7H14O	000100-49-2	22





Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU060619\
Data File : VU032526.D
Acq On : 07 Jun 2019 03:16
Operator : JC/SP
Sample : K3215-10
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J4

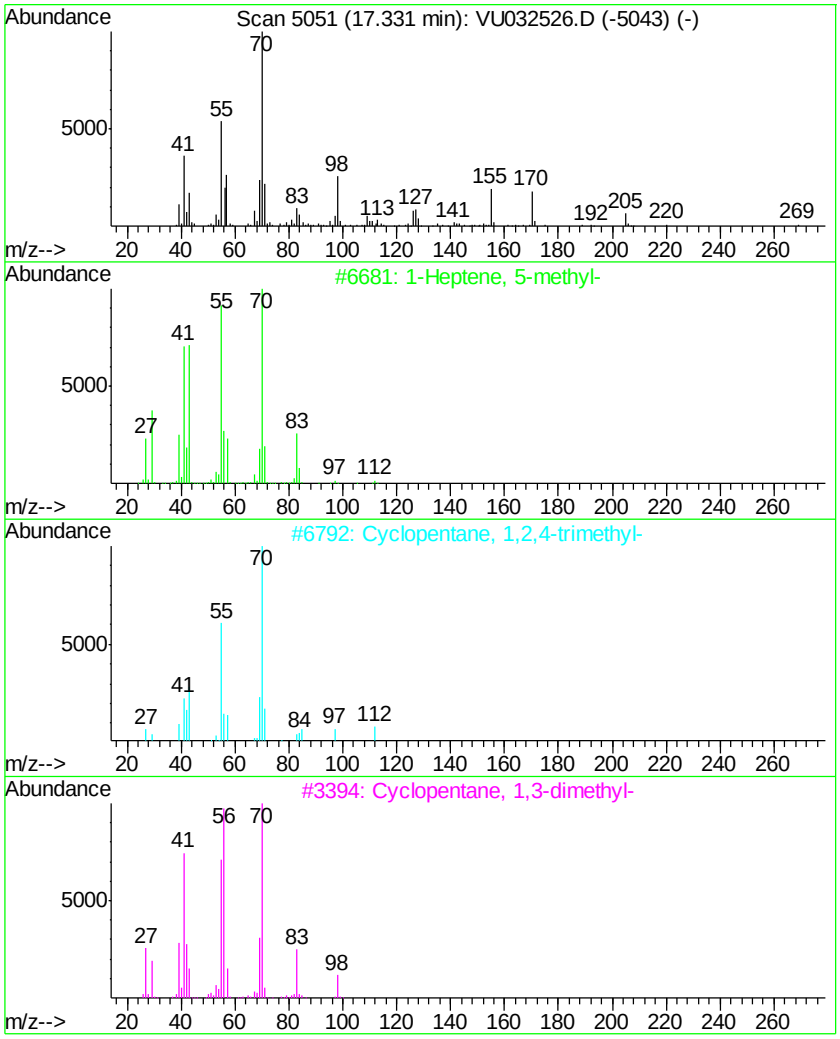
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060619WMA.M
Quant Title : VOC Analysis

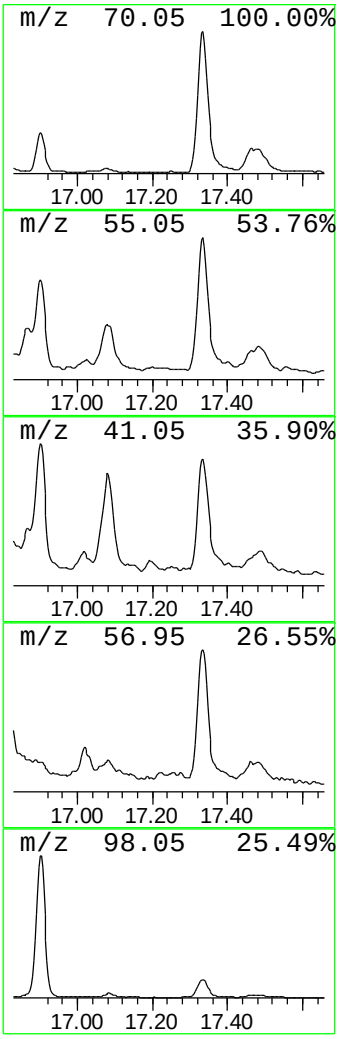
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 73 (DEL) Alkane: Cyclic17.33 Concentration Rank 63

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.33	8.98 ug/L	268150	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heptene, 5-methyl-	112	C8H16	013151-04-7	47
2	Cyclopentane, 1,2,4-trimethyl-	112	C8H16	002815-58-9	47
3	Cyclopentane, 1,3-dimethyl-	98	C7H14	002453-00-1	47
4	Cyclohexanamine, N-methyl-	113	C7H15N	000100-60-7	43
5	Cyclopentane, 1,2,4-trimethyl-	112	C8H16	002815-58-9	43





Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU060619\
Data File : VU032526.D
Acq On : 07 Jun 2019 03:16
Operator : JC/SP
Sample : K3215-10
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 47 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : DB8J4

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	44.5	ug/L	483623	1	5.88	544039	50.0
Propanal, 2-methyl-	3.18	61.5	ug/L	669224	1	5.88	544039	50.0
Butanal	3.98	498.1	ug/L	5419260	1	5.88	544039	50.0
2-Pentanol, 4-met...	7.90	13.0	ug/L	201964	2	9.08	775002	50.0
3-Penten-2-one, 4...	8.47	27.4	ug/L	424351	2	9.08	775002	50.0
2-Hexanone, 5-met...	9.45	26.9	ug/L	416799	2	9.08	775002	50.0
3-Hexanol, 2-methyl-	9.54	12.9	ug/L	200594	2	9.08	775002	50.0
4-Heptanone	9.59	33.2	ug/L	514530	2	9.08	775002	50.0
4-Heptanol	9.89	20.4	ug/L	316988	2	9.08	775002	50.0
unknown-01	10.02	28.5	ug/L	441097	2	9.08	775002	50.0
Propanoic acid, 2...	10.49	15.1	ug/L	449310	3	11.48	1492290	50.0
1-Pentanol, 2-ethyl-	10.54	41.0	ug/L	1224070	3	11.48	1492290	50.0
Benzene, 1-ethyl-...	10.67	32.0	ug/L	954716	3	11.48	1492290	50.0
Benzene, 1,2,3-tr...	10.77	22.5	ug/L	672169	3	11.48	1492290	50.0
4-Heptanone, 2,6-...	10.91	209.6	ug/L	6254120	3	11.48	1492290	50.0
Butanoic acid, bu...	11.06	10.8	ug/L	322223	3	11.48	1492290	50.0
2-Heptanone, 4,6-...	11.24	197.5	ug/L	5895310	3	11.48	1492290	50.0
Cyclohexene, 1-me...	11.31	21.9	ug/L	654161	3	11.48	1492290	50.0
unknown-02	11.40	15.8	ug/L	470220	3	11.48	1492290	50.0
unknown-03	11.66	11.6	ug/L	345321	3	11.48	1492290	50.0
1-Hexanol, 2-ethyl-	11.74	331.4	ug/L	9891960	3	11.48	1492290	50.0
unknown-04	11.92	67.9	ug/L	2025670	3	11.48	1492290	50.0
2-Nonanone	12.04	56.4	ug/L	1681810	3	11.48	1492290	50.0
Cyclohexanone, 3,...	12.14	366.2	ug/L	10928400	3	11.48	1492290	50.0
Benzene, 1-ethyl-...	12.25	18.5	ug/L	553277	3	11.48	1492290	50.0
(DEL) Alkane: Str...	12.32	5.8	ug/L	171897	3	11.48	1492290	50.0
3-Nonanol	12.41	24.4	ug/L	728102	3	11.48	1492290	50.0
unknown-05	12.50	77.2	ug/L	2304530	3	11.48	1492290	50.0
unknown-06	12.62	13.2	ug/L	392736	3	11.48	1492290	50.0
1-Oxa-4-azaspiro[...	12.69	80.5	ug/L	2402730	3	11.48	1492290	50.0
(DEL) Alkane: Cyc...	13.41	36.5	ug/L	1090570	3	11.48	1492290	50.0
(DEL) Alkane: Cyc...	14.03	65.1	ug/L	1941730	3	11.48	1492290	50.0
(DEL) Alkane: Str...	14.11	10.0	ug/L	297258	3	11.48	1492290	50.0
(DEL) Alkane: Cyc...	14.25	26.4	ug/L	788242	3	11.48	1492290	50.0
(DEL) Alkane: Cyc...	15.02	8.9	ug/L	267172	3	11.48	1492290	50.0
(DEL) Alkane: Cyc...	17.33	9.0	ug/L	268150	3	11.48	1492290	50.0