LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV052819\
Data File : VV011078.D
Acq On : 28 May 2019 22:12
Operator : SY/MD
Sample : K3016-06
Misc : 4.01G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51C5

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_V\METHOD\SOM2VLM052819S.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	1.312	64	69	78	rVB	271769	240753	13.46%	1.832%
2	1.563	142	147	156	rVB	179301	200826	11.23%	1.528%
3	2.119	312	320	332	rVB	420397	595448	33.30%	4.531%
4	3.151	639	641	642	rBV2	1129	424	0.02%	0.003%
5	3.373	707	710	712	rBV3	1576	1050	0.06%	0.008%
6	3.441	727	731	733	rBV5	1454	1155	0.06%	0.009%
7	3.486	743	745	748	rBV3	507	346	0.02%	0.003%
8	3.621	783	787	790	rBV6	1207	989	0.06%	0.008%
9	3.685	805	807	809	rBV3	914	290	0.02%	0.002%
10	3.749	818	827	843	rVB3	20760	45821	2.56%	0.349%
11	3.933	874	884	908	rBV	76323	194954	10.90%	1.483%
12	4.183	958	962	964	rBV6	1609	1667	0.09%	0.013%
13	4.396	1010	1028	1056	rBV	273604	703426	39.34%	5.353%
14	4.849	1168	1169	1171	rBV2	996	498	0.03%	0.004%
15	4.862	1171	1173	1178	rVV4	1324	884	0.05%	0.007%
16	4.904	1183	1186	1190	rVV5	1243	1007	0.06%	0.008%
17	4.955	1198	1202	1205	rBV4	2013	2105	0.12%	0.016%
18	4.987	1211	1212	1213	rBV	205	63	0.00%	0.000%
19	4.997	1213	1215	1216	rBV3	694	231	0.01%	0.002%
20	5.023	1220	1223	1225	rVB4	941	467	0.03%	0.004%
21	5.090	1225	1244	1279	rBV2	729342	1788122	100.00%	13.607%
22	5.659	1408	1421	1443	rBV	485579	974284	54.49%	7.414%
23	5.894	1491	1494	1495	rBV3	940	524	0.03%	0.004%
24	6.029	1534	1536	1538	rBV3	1021	540	0.03%	0.004%
25	6.116	1550	1563	1584	rBV	411282	823427	46.05%	6.266%
26	6.328	1619	1629	1651	rBV	87700	167398	9.36%	1.274%
27	6.563	1696	1702	1704	rBV6	1586	1616	0.09%	0.012%
28	6.637	1721	1725	1728	rBV6	1832	1632	0.09%	0.012%
29	6.772	1766	1767	1769	rVB2	362	130	0.01%	0.001%
30	6.785	1769	1771	1774	rVB4	1462	729	0.04%	0.006%
31	6.801	1774	1776	1779	rBV4	564	457	0.03%	0.003%
32	6.875	1794	1799	1802	rBV7	1040	1142	0.06%	0.009%
33	6.894	1802	1805	1807	rBV4	1220	660	0.04%	0.005%
34	7.026	1834	1846	1866	rBV	253178	435776	24.37%	3.316%

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV052819\
Data File : VV011078.D
Acq On : 28 May 2019 22:12
Operator : SY/MD
Sample : K3016-06
Misc : 4.01G/10ML/MSVOA V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51C5

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_V\METHOD\SOM2VLM052819S.M
Title : VOC Analysis

35	7.244	1913	1914	1919	rVB5	996	688	0.04%	0.005%
36	7.357	1930	1949	1981	rBV	808842	1457359	81.50%	11.090%
37	7.662	2033	2044	2058	rBV	162378	266938	14.93%	2.031%
38	7.891	2113	2115	2121	rVB7	1509	1174	0.07%	0.009%
39	7.929	2121	2127	2130	rBV7	1037	1488	0.08%	0.011%
40	8.064	2163	2169	2170	rBV6	2004	1808	0.10%	0.014%
41	8.132	2177	2190	2207	rBV	297731	510165	28.53%	3.882%
42	8.280	2225	2236	2262	rBV	646602	1053999	58.94%	8.020%
43	8.627	2340	2344	2347	rBV4	1278	1008	0.06%	0.008%
44	8.678	2357	2360	2361	rBV3	757	431	0.02%	0.003%
45	8.743	2377	2380	2383	rBV5	1125	933	0.05%	0.007%
46	8.759	2383	2385	2386	rVV2	975	344	0.02%	0.003%
47	8.823	2401	2405	2410	rBV8	1317	1431	0.08%	0.011%
48	8.894	2414	2427	2451	rBV	682621	1119723	62.62%	8.521%
49	9.495	2611	2614	2617	rBV5	854	602	0.03%	0.005%
50	9.640	2656	2659	2660	rBV3	1436	775	0.04%	0.006%
51	9.694	2674	2676	2678	rBV3	1309	605	0.03%	0.005%
52	9.743	2688	2691	2692	rBV3	1115	664	0.04%	0.005%
53	9.852	2716	2725	2743	rBV	62813	103550	5.79%	0.788%
54	10.051	2783	2787	2788	rBV3	912	601	0.03%	0.005%
55	10.161	2816	2821	2822	rBV5	1198	996	0.06%	0.008%
56	10.202	2831	2834	2837	rBV4	1005	658	0.04%	0.005%
57	10.215	2837	2838	2840	rBV2	786	315	0.02%	0.002%
58	10.260	2840	2852	2870	rVV	338763	543071	30.37%	4.132%
59	10.424	2895	2903	2912	rVB3	22612	36957	2.07%	0.281%
60	10.460	2912	2914	2920	rVB8	1743	1116	0.06%	0.008%
61	10.553	2934	2943	2944	rBV7	6551	6915	0.39%	0.053%
62	10.627	2956	2966	2977	rBV3	10154	18745	1.05%	0.143%
63	10.720	2992	2995	2996	rBV2	1148	627	0.04%	0.005%
64	11.077	3103	3106	3107	rBV3	3142	1886	0.11%	0.014%
65	11.196	3136	3143	3158	rVB2	38943	63819	3.57%	0.486%
66	11.296	3161	3174	3192	rVV	477077	773683	43.27%	5.887%
67	11.527	3244	3246	3250	rBV4	698	583	0.03%	0.004%
68	11.579	3251	3262	3273	rBV2	20105	36343	2.03%	0.277%
69	11.672	3279	3291	3305	rBV	497597	803625	44.94%	6.115%
70	11.958	3378	3380	3383	rBV3	939	491	0.03%	0.004%
71	11.997	3386	3392	3398	rVB8	3598	5505	0.31%	0.042%

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV052819\
Data File : VV011078.D
Acq On : 28 May 2019 22:12
Operator : SY/MD
Sample : K3016-06
Misc : 4.01G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51C5

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_V\METHOD\SOM2VLM052819S.M
Title : VOC Analysis

72	12.225	3461	3463	3467	rBV4	1281	902	0.05%	0.007%
73	12.392	3507	3515	3525	rBV3	34101	52309	2.93%	0.398%
74	13.080	3723	3729	3732	rBV7	2121	2508	0.14%	0.019%
75	13.103	3732	3736	3743	rVV9	2642	3916	0.22%	0.030%
76	13.485	3848	3855	3863	rBV9	7032	9827	0.55%	0.075%
77	13.797	3950	3952	3953	rBV2	1049	400	0.02%	0.003%
78	13.961	4001	4003	4004	rBV2	933	433	0.02%	0.003%
79	13.980	4006	4009	4012	rVV4	1183	862	0.05%	0.007%
80	14.090	4034	4043	4055	rBV	33849	59131	3.31%	0.450%
81	14.672	4217	4224	4225	rBV7	2923	2753	0.15%	0.021%

Sum of corrected areas: 13141503

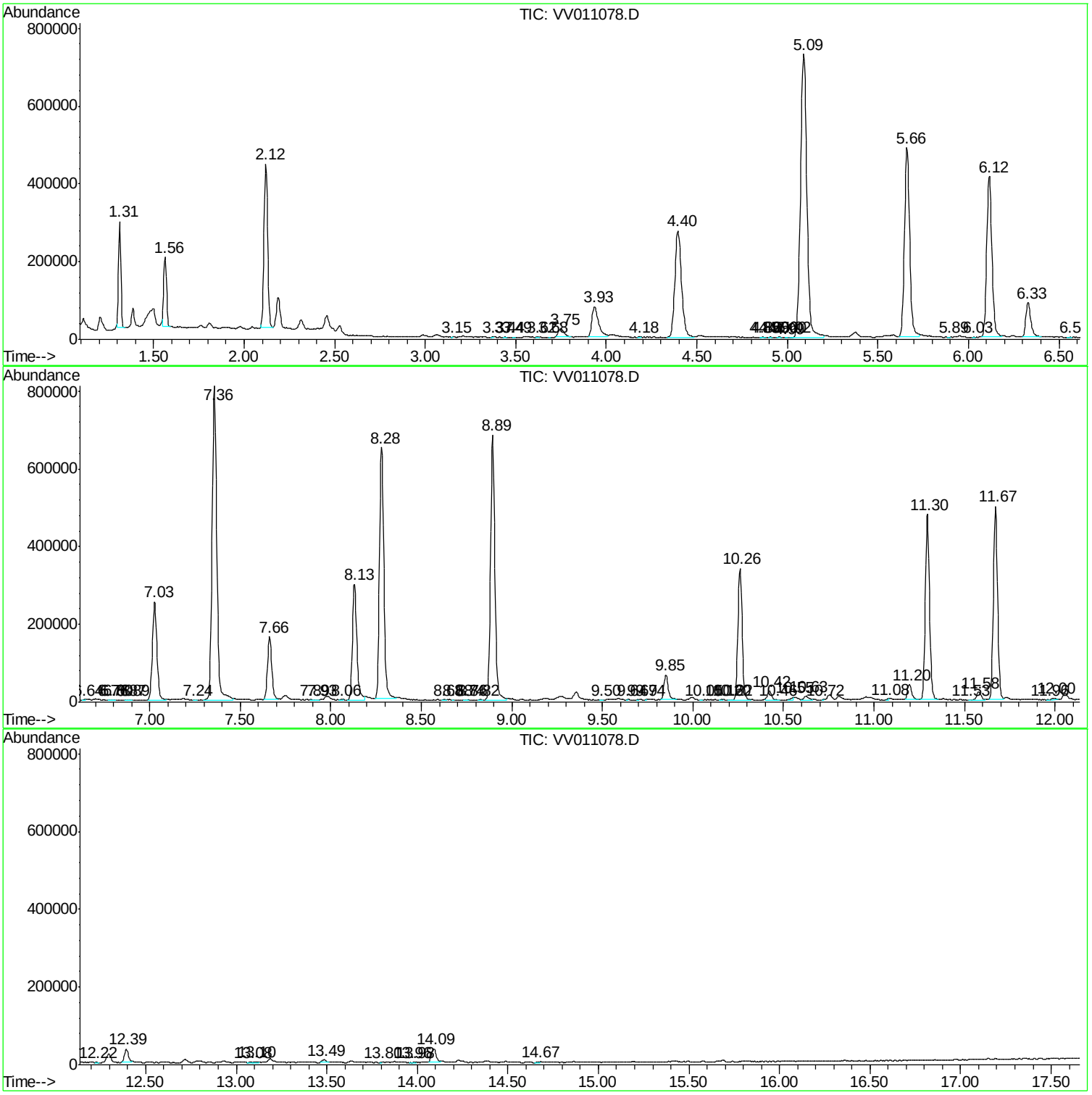
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV052819\
Data File : VV011078.D
Acq On : 28 May 2019 22:12
Operator : SY/MD
Sample : K3016-06
Misc : 4.01G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51C5

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM052819S.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_V\DATA\VV052819\
Data File : VV011078.D
Acq On : 28 May 2019 22:12
Operator : SY/MD
Sample : K3016-06
Misc : 4.01G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51C5

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM052819S.M
Quant Title : VOC Analysis

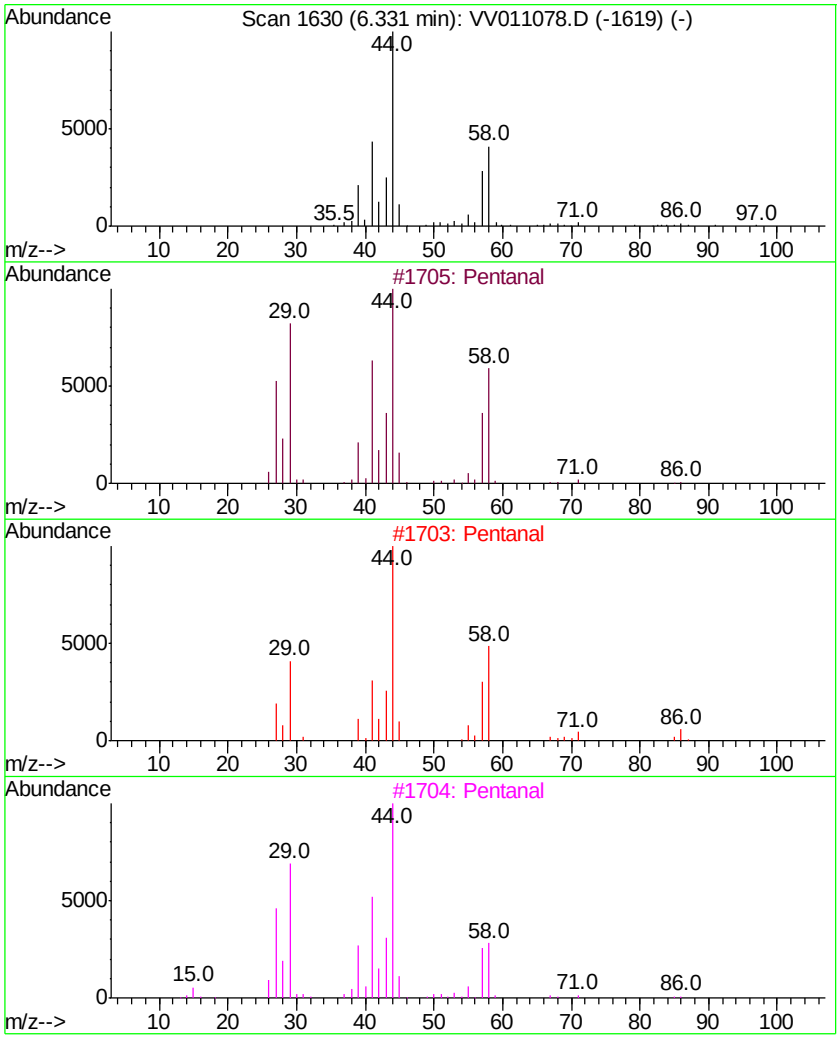
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

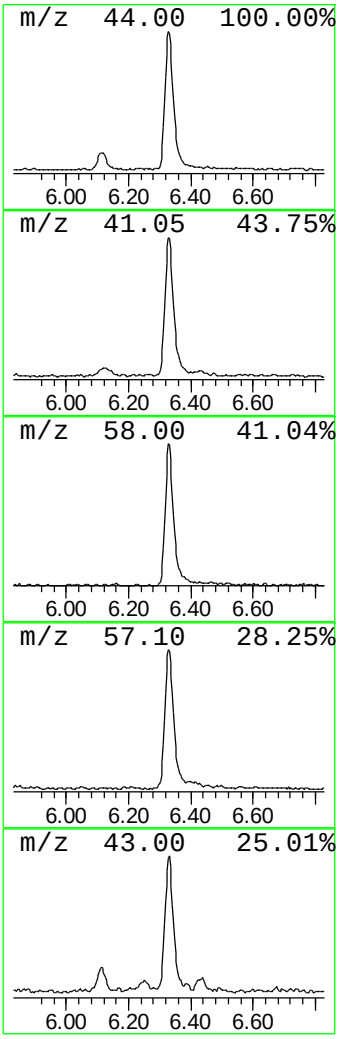
****

Peak Number 1 Pentanal Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.33	4.30 ug/L	167398	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentanal	86	C5H10O	000110-62-3	91
2	Pentanal	86	C5H10O	000110-62-3	64
3	Pentanal	86	C5H10O	000110-62-3	43
4	Butanal, 3-methyl-	86	C5H10O	000590-86-3	38
5	Cyclopropyl carbinol	72	C4H8O	002516-33-8	36





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV052819\
Data File : VV011078.D
Acq On : 28 May 2019 22:12
Operator : SY/MD
Sample : K3016-06
Misc : 4.01G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51C5

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM052819S.M
Quant Title : VOC Analysis

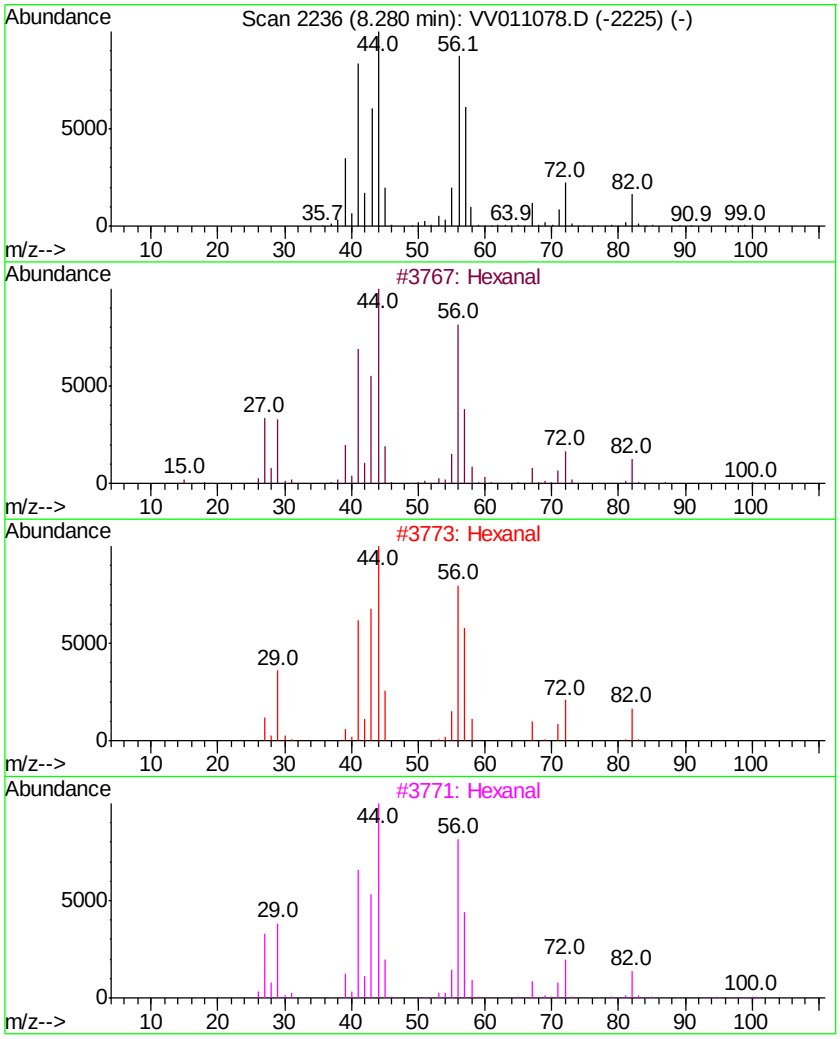
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

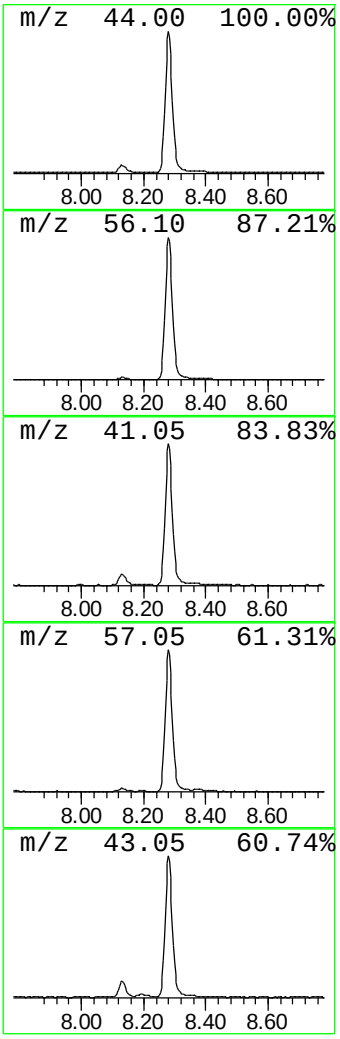
****

Peak Number 3 Hexanal Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.28	23.53 ug/L	1054000	Chlorobenzene-d5	8.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexanal	100	C6H12O	000066-25-1	90
2	Hexanal	100	C6H12O	000066-25-1	90
3	Hexanal	100	C6H12O	000066-25-1	90
4	Hexanal	100	C6H12O	000066-25-1	86
5	2,2-Dimethyl-3-hydroxypropionald...	102	C5H10O2	000597-31-9	37





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV052819\
Data File : VV011078.D
Acq On : 28 May 2019 22:12
Operator : SY/MD
Sample : K3016-06
Misc : 4.01G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51C5

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM052819S.M
Quant Title : VOC Analysis

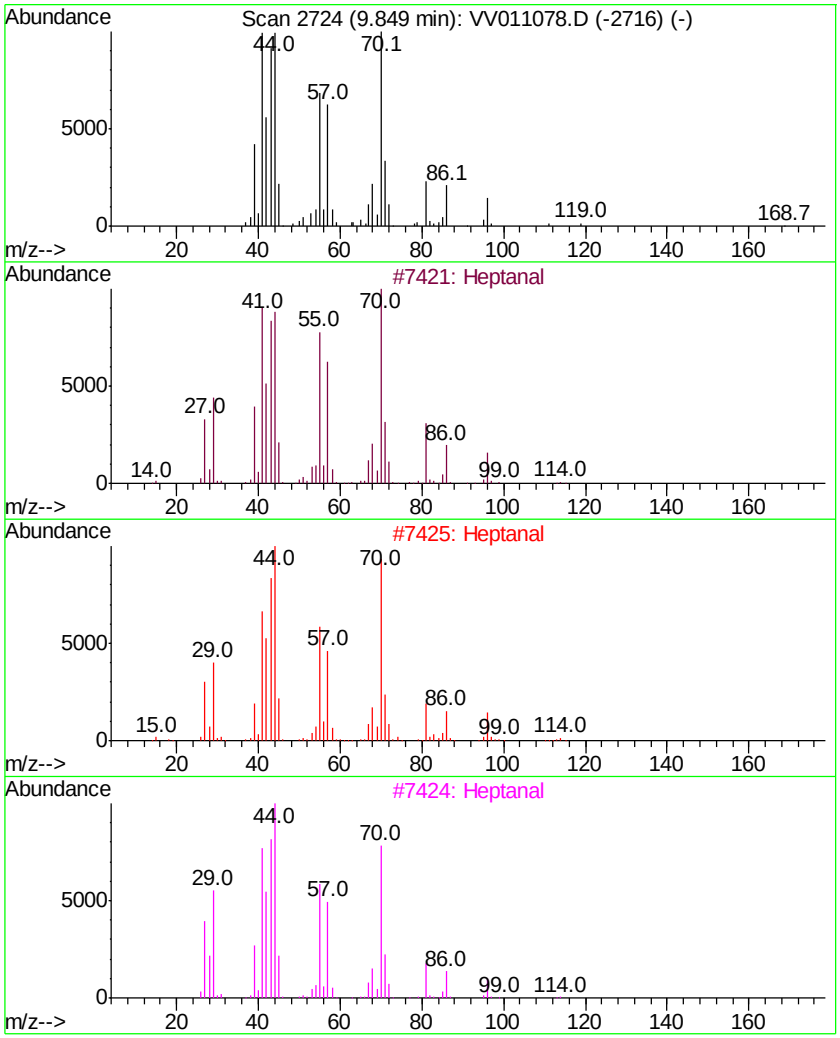
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

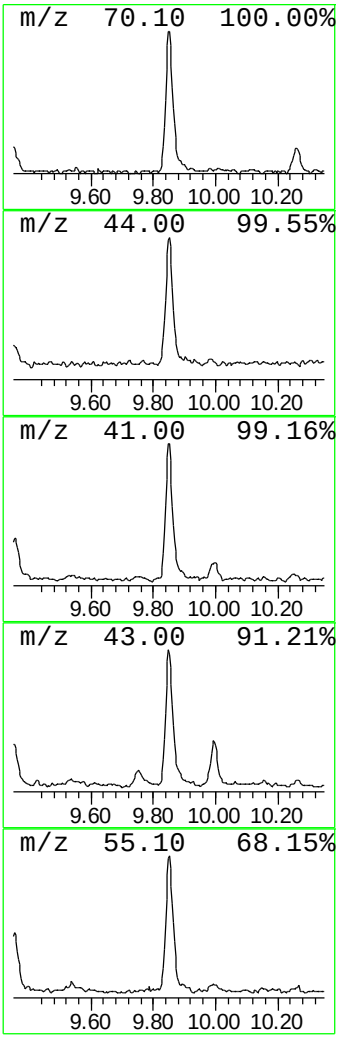
****

Peak Number 4 Heptanal Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.85	2.31 ug/L	103550	Chlorobenzene-d5	8.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptanal	114	C7H14O	000111-71-7	98
2	Heptanal	114	C7H14O	000111-71-7	93
3	Heptanal	114	C7H14O	000111-71-7	80
4	Heptanal	114	C7H14O	000111-71-7	72
5	2-Pentene, (Z)-	70	C5H10	000627-20-3	38





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV052819\
Data File : VV011078.D
Acq On : 28 May 2019 22:12
Operator : SY/MD
Sample : K3016-06
Misc : 4.01G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51C5

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM052819S.M
Quant Title : VOC Analysis

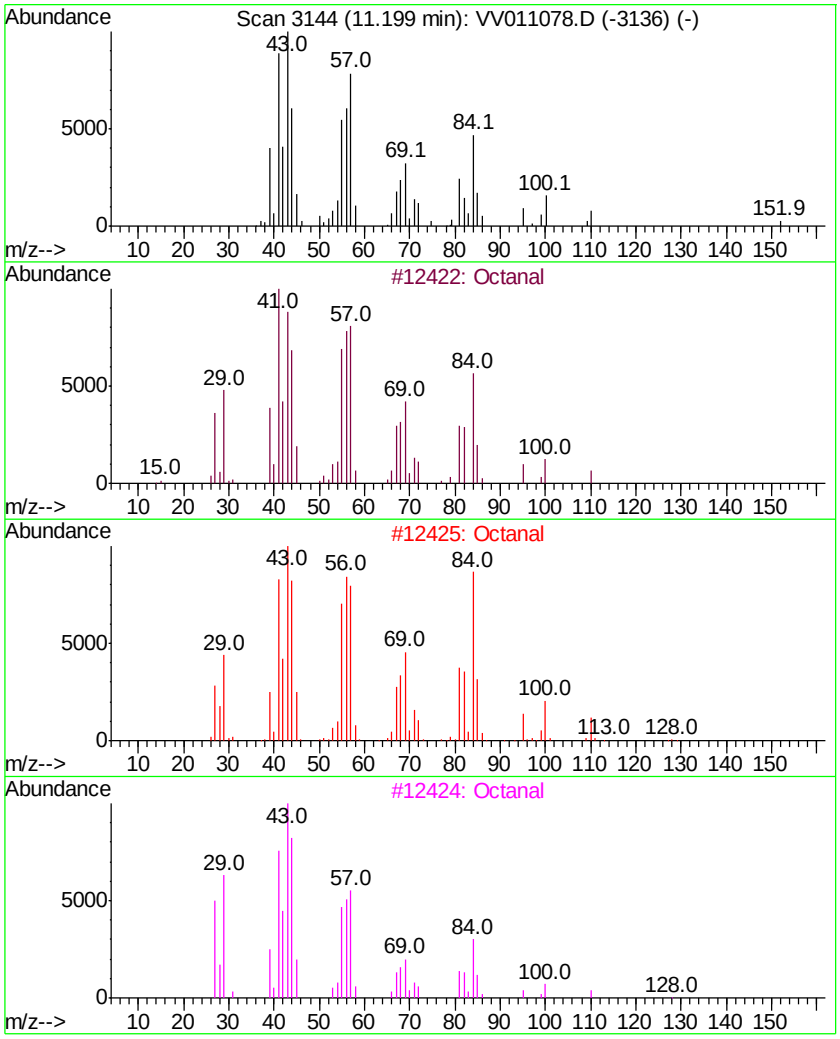
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

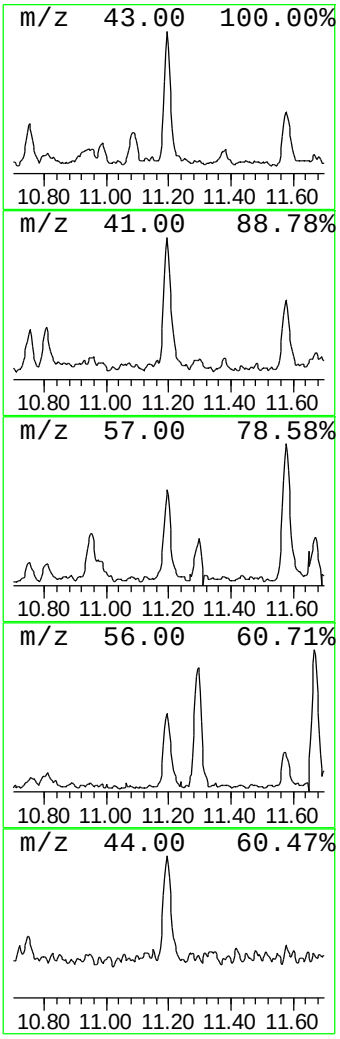
****

Peak Number 5 Octanal Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.20	2.06 ug/L	63819	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octanal	128	C8H16O	000124-13-0	90
2	Octanal	128	C8H16O	000124-13-0	83
3	Octanal	128	C8H16O	000124-13-0	40
4	1-Pentanol, 2-methyl-, acetate	144	C8H16O2	007789-99-3	38
5	Piperazine, 2-methyl-	100	C5H12N2	000109-07-9	38





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV052819\
Data File : VV011078.D
Acq On : 28 May 2019 22:12
Operator : SY/MD
Sample : K3016-06
Misc : 4.01G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51C5

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM052819S.M
Quant Title : VOC Analysis

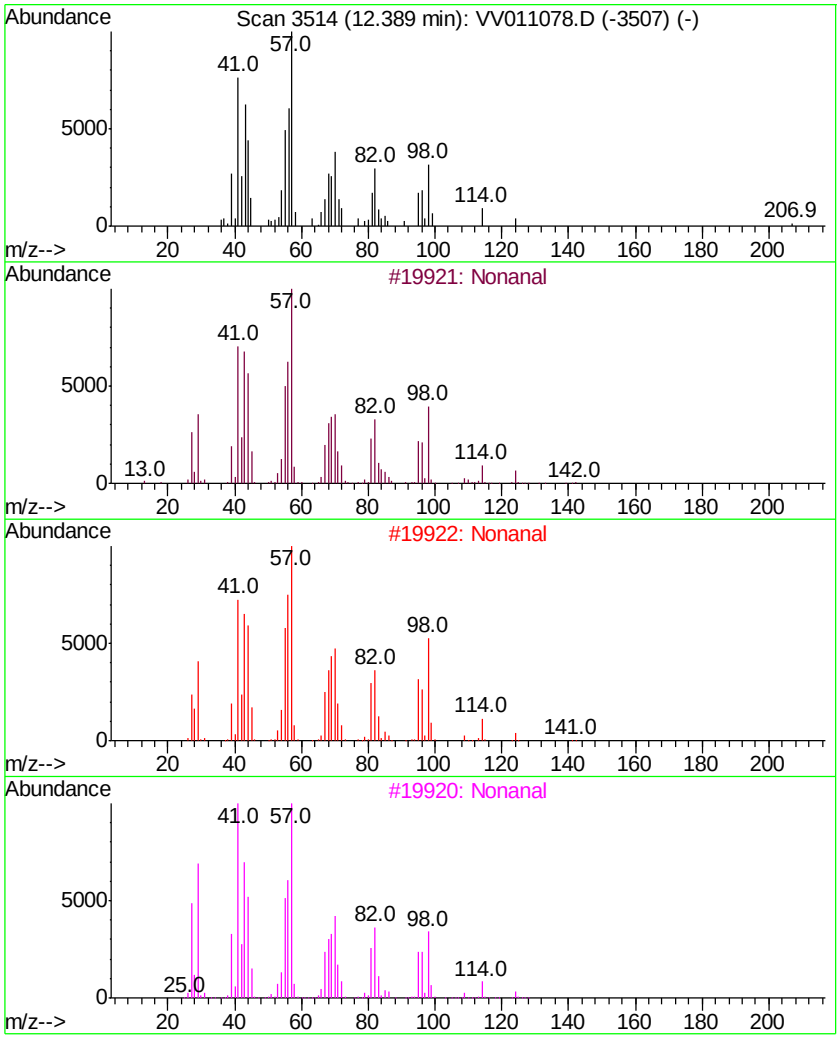
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

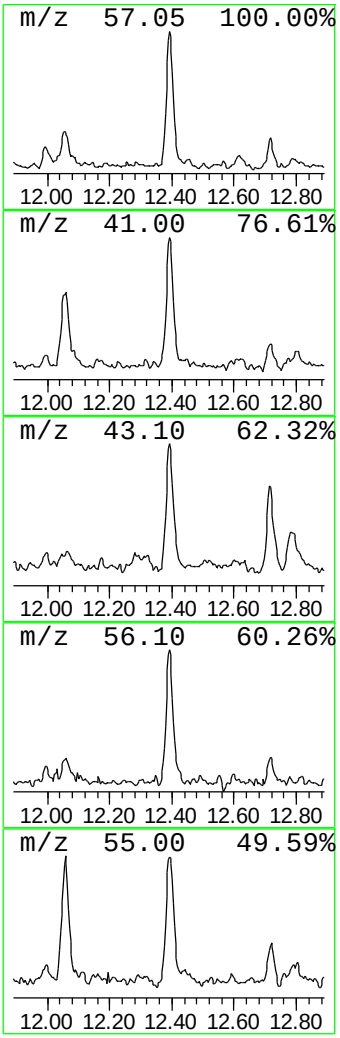
****

Peak Number 6 Nonanal Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	1.69 ug/L	52309	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonanal	142	C9H18O	000124-19-6	91
2	Nonanal	142	C9H18O	000124-19-6	90
3	Nonanal	142	C9H18O	000124-19-6	72
4	Nonanal	142	C9H18O	000124-19-6	64
5	Cyclohexanol, 2-methyl-	114	C7H14O	000583-59-5	43





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV052819\
Data File : VV011078.D
Acq On : 28 May 2019 22:12
Operator : SY/MD
Sample : K3016-06
Misc : 4.01G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51C5

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM052819S.M
Quant Title : VOC Analysis

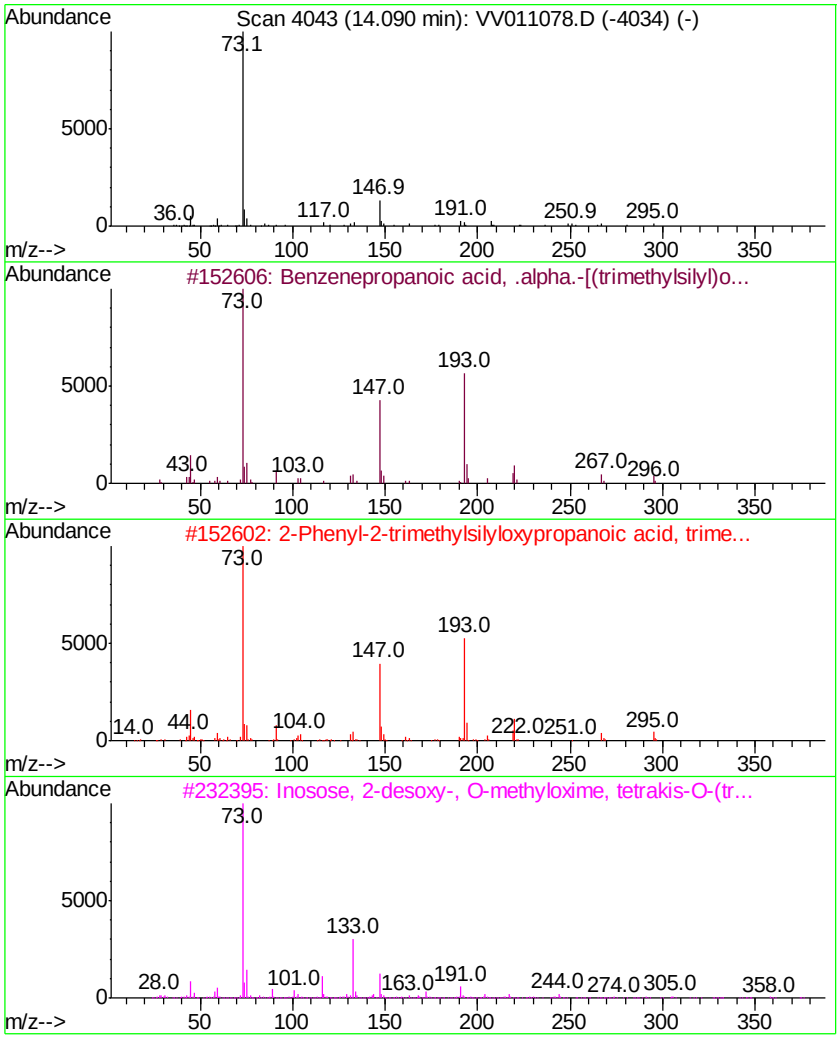
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

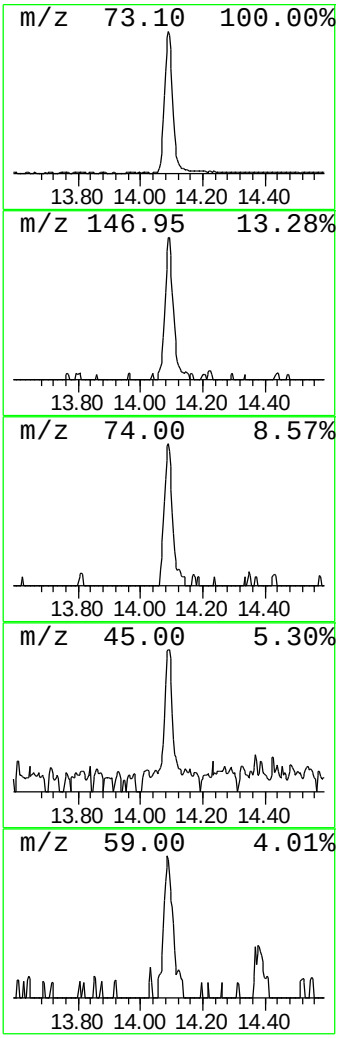
****

Peak Number 7 unknown-01 Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.09	1.91 ug/L	59131	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzenepropanoic acid, .alpha.-[...	310	C15H26O3Si2	027750-45-4	40
2	2-Phenyl-2-trimethylsilyloxyprop...	310	C15H26O3Si2	082326-12-3	33
3	Inosose, 2-desoxy-, O-methyloxim...	479	C19H45NO5Si4	1000149-50-8	33
4	Silane, trimethyl[1-phenyl-2-[2-...	304	C17H28OSi2	097778-19-3	33
5	Propanedioic acid, [(trimethylsi...	336	C12H28O5Si3	038165-93-4	28





Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV052819\
Data File : VV011078.D
Acq On : 28 May 2019 22:12
Operator : SY/MD
Sample : K3016-06
Misc : 4.01G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51C5

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM052819S.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
Pentanal	6.33	4.3	ug/L	167398	1	5.66	974284	25.0
Hexanal	8.28	23.5	ug/L	1054000	2	8.89	1119720	25.0
Heptanal	9.85	2.3	ug/L	103550	2	8.89	1119720	25.0
Octanal	11.20	2.1	ug/L	63819	3	11.30	773683	25.0
Nonanal	12.39	1.7	ug/L	52309	3	11.30	773683	25.0
unknown-01	14.09	1.9	ug/L	59131	3	11.30	773683	25.0