LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053119\
Data File : VV011182.D
Acq On : 31 May 2019 17:11
Operator : SY/MD
Sample : K3083-03RE
Misc : 3.07G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51F6RE

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\SOM2VLM053019S.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	1.116	5	8	22	rVB2	41682	42707	2.15%	0.357%
2	1.315	64	70	82	rVB	189627	191602	9.66%	1.600%
3	1.389	87	93	100	rVB	108244	106090	5.35%	0.886%
4	1.569	143	149	164	rVB	135534	162499	8.20%	1.357%
5	1.814	219	225	234	rVB	77023	93485	4.72%	0.780%
6	2.119	310	320	332	rBV2	380419	606933	30.61%	5.067%
7	2.190	334	342	354	rVB	159582	225702	11.38%	1.884%
8	2.457	420	425	436	rVB	28824	42953	2.17%	0.359%
9	2.846	539	546	550	rVV10	986	1280	0.06%	0.011%
10	2.991	579	591	602	rBV3	16075	34725	1.75%	0.290%
11	3.065	606	614	626	rVV6	7139	13652	0.69%	0.114%
12	3.161	641	644	648	rBV4	1660	1172	0.06%	0.010%
13	3.203	648	657	664	rBV10	4914	8977	0.45%	0.075%
14	3.521	754	756	759	rBV4	1473	1057	0.05%	0.009%
15	3.547	762	764	767	rVV4	1725	1417	0.07%	0.012%
16	3.749	813	827	845	rBV2	52190	125318	6.32%	1.046%
17	3.933	869	884	904	rBV3	55844	148241	7.48%	1.238%
18	4.396	1010	1028	1052	rBV	202086	493284	24.88%	4.118%
19	5.090	1226	1244	1272	rBV2	482245	1182021	59.62%	9.868%
20	5.370	1321	1331	1347	rVV3	22424	49059	2.47%	0.410%
21	5.508	1368	1374	1375	rBV5	1511	1318	0.07%	0.011%
22	5.576	1375	1395	1408	rVV3	24527	75584	3.81%	0.631%
23	5.663	1409	1422	1446	rVV	382564	757776	38.22%	6.326%
24	5.881	1486	1490	1494	rBV7	1568	1537	0.08%	0.013%
25	5.955	1503	1513	1521	rBV7	9596	19435	0.98%	0.162%
26	6.116	1549	1563	1582	rBV	273993	544458	27.46%	4.545%
27	6.328	1617	1629	1650	rBV	210896	417067	21.04%	3.482%
28	6.807	1774	1778	1780	rBV4	1472	1088	0.05%	0.009%
29	7.029	1829	1847	1864	rBV	150309	270967	13.67%	2.262%
30	7.129	1872	1878	1880	rBV7	1758	1927	0.10%	0.016%
31	7.273	1919	1923	1929	rBV7	2561	3185	0.16%	0.027%
32	7.357	1929	1949	1964	rBV	508667	953109	48.07%	7.957%
33	7.608	2021	2027	2033	rBV7	4560	5267	0.27%	0.044%
34	7.662	2034	2044	2056	rVV	89092	145564	7.34%	1.215%

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053119\
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Acq On : 31 May 2019 17:11
Operator : SY/MD
Sample : K3083-03RE
Misc : 3.07G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51F6RE

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\SOM2VLM053019S.M
Title : VOC Analysis

35	7.727	2058	2064	2079	rVB4	10977	25451	1.28%	0.212%
36	7.897	2112	2117	2118	rBV5	1787	1532	0.08%	0.013%
37	7.971	2130	2140	2151	rBV7	9671	24405	1.23%	0.204%
38	8.132	2179	2190	2206	rBV	160549	278484	14.05%	2.325%
39	8.280	2224	2236	2263	rBV	1204058	1982661	100.00%	16.551%
40	8.595	2328	2334	2336	rBV5	1781	1435	0.07%	0.012%
41	8.711	2363	2370	2371	rBV5	1571	1495	0.08%	0.012%
42	8.778	2389	2391	2398	rVB6	1856	1739	0.09%	0.015%
43	8.817	2398	2403	2406	rBV6	1655	1229	0.06%	0.010%
44	8.894	2410	2427	2448	rBV	462533	775421	39.11%	6.473%
45	9.055	2474	2477	2484	rBV8	2225	2041	0.10%	0.017%
46	9.103	2486	2492	2493	rBV6	2427	1754	0.09%	0.015%
47	9.174	2510	2514	2516	rBV4	3158	2729	0.14%	0.023%
48	9.241	2524	2535	2563	rBV	83563	292031	14.73%	2.438%
49	9.354	2564	2570	2584	rVB5	12493	21995	1.11%	0.184%
50	9.524	2615	2623	2639	rBV4	18004	42324	2.13%	0.353%
51	9.749	2683	2693	2700	rBV2	8025	13969	0.70%	0.117%
52	9.797	2706	2708	2714	rVB6	2650	1834	0.09%	0.015%
53	9.852	2715	2725	2737	rBV2	68541	113045	5.70%	0.944%
54	9.990	2760	2768	2778	rVB7	6094	11233	0.57%	0.094%
55	10.100	2799	2802	2808	rVB8	1674	1801	0.09%	0.015%
56	10.260	2832	2852	2868	rVV	173609	289579	14.61%	2.417%
57	10.386	2887	2891	2893	rVV3	2243	1905	0.10%	0.016%
58	10.428	2895	2904	2913	rVB4	8718	16031	0.81%	0.134%
59	10.559	2935	2945	2957	rBV4	9113	20909	1.05%	0.175%
60	10.627	2957	2966	2987	rVB4	25753	49604	2.50%	0.414%
61	10.762	2999	3008	3013	rBV2	10684	15327	0.77%	0.128%
62	10.804	3014	3021	3035	rVB4	15664	29526	1.49%	0.246%
63	10.968	3060	3072	3089	rVB9	20869	59709	3.01%	0.498%
64	11.087	3105	3109	3118	rVB8	4344	5164	0.26%	0.043%
65	11.125	3118	3121	3130	rVB8	2319	3119	0.16%	0.026%
66	11.196	3131	3143	3161	rBV2	59330	104642	5.28%	0.874%
67	11.296	3162	3174	3189	rVB	264556	440661	22.23%	3.679%
68	11.383	3194	3201	3207	rVB	4123	6654	0.34%	0.056%
69	11.582	3255	3263	3272	rBV5	8316	16756	0.85%	0.140%
70	11.672	3279	3291	3302	rBV	218811	356740	17.99%	2.978%
71	11.865	3346	3351	3354	rBV5	1818	2079	0.10%	0.017%

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053119\
Data File : VV011182.D
Acq On : 31 May 2019 17:11
Operator : SY/MD
Sample : K3083-03RE
Misc : 3.07G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51F6RE

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\SOM2VLM053019S.M
Title : VOC Analysis

72	12.055	3402	3410	3424	rVB2	28033	49441	2.49%	0.413%
73	12.186	3447	3451	3457	rBV9	2089	2570	0.13%	0.021%
74	12.296	3473	3485	3497	rBV5	7331	14865	0.75%	0.124%
75	12.392	3506	3515	3527	rBV4	38603	61867	3.12%	0.516%
76	12.540	3556	3561	3565	rBV7	1755	1323	0.07%	0.011%
77	12.595	3569	3578	3586	rBV7	3544	6697	0.34%	0.056%
78	12.698	3606	3610	3611	rBV4	2423	1556	0.08%	0.013%
79	12.717	3611	3616	3626	rVB9	8763	12877	0.65%	0.107%
80	12.788	3631	3638	3651	rVB8	7358	11637	0.59%	0.097%
81	12.891	3667	3670	3676	rBV7	1662	1776	0.09%	0.015%
82	12.926	3677	3681	3683	rBV5	2565	2156	0.11%	0.018%
83	13.003	3699	3705	3711	rBV9	2337	3239	0.16%	0.027%
84	13.186	3755	3762	3772	rVV9	5403	10724	0.54%	0.090%
85	13.315	3797	3802	3805	rBV6	2621	2820	0.14%	0.024%
86	13.482	3847	3854	3859	rBV8	4006	6377	0.32%	0.053%
87	13.530	3865	3869	3872	rBV5	2208	2166	0.11%	0.018%
88	13.636	3892	3902	3908	rBV8	5165	8973	0.45%	0.075%
89	14.080	4033	4040	4041	rBV7	1797	1670	0.08%	0.014%
90	14.199	4072	4077	4079	rBV6	1691	1321	0.07%	0.011%
91	14.228	4079	4086	4092	rBV6	5290	8455	0.43%	0.071%
92	14.382	4126	4134	4140	rBV10	4763	7642	0.39%	0.064%
93	14.575	4190	4194	4199	rBV4	957	1234	0.06%	0.010%
94	14.868	4282	4285	4289	rVV5	1449	1277	0.06%	0.011%
95	15.064	4344	4346	4350	rBV4	1456	1271	0.06%	0.011%
96	15.135	4365	4368	4373	rVB5	1358	1208	0.06%	0.010%
97	15.196	4381	4387	4389	rBV6	2244	1902	0.10%	0.016%
98	15.675	4533	4536	4541	rBV6	1481	1505	0.08%	0.013%
99	15.749	4556	4559	4566	rVB8	1556	1320	0.07%	0.011%
100	16.054	4650	4654	4657	rBV5	1687	1475	0.07%	0.012%

Sum of corrected areas: 11978813

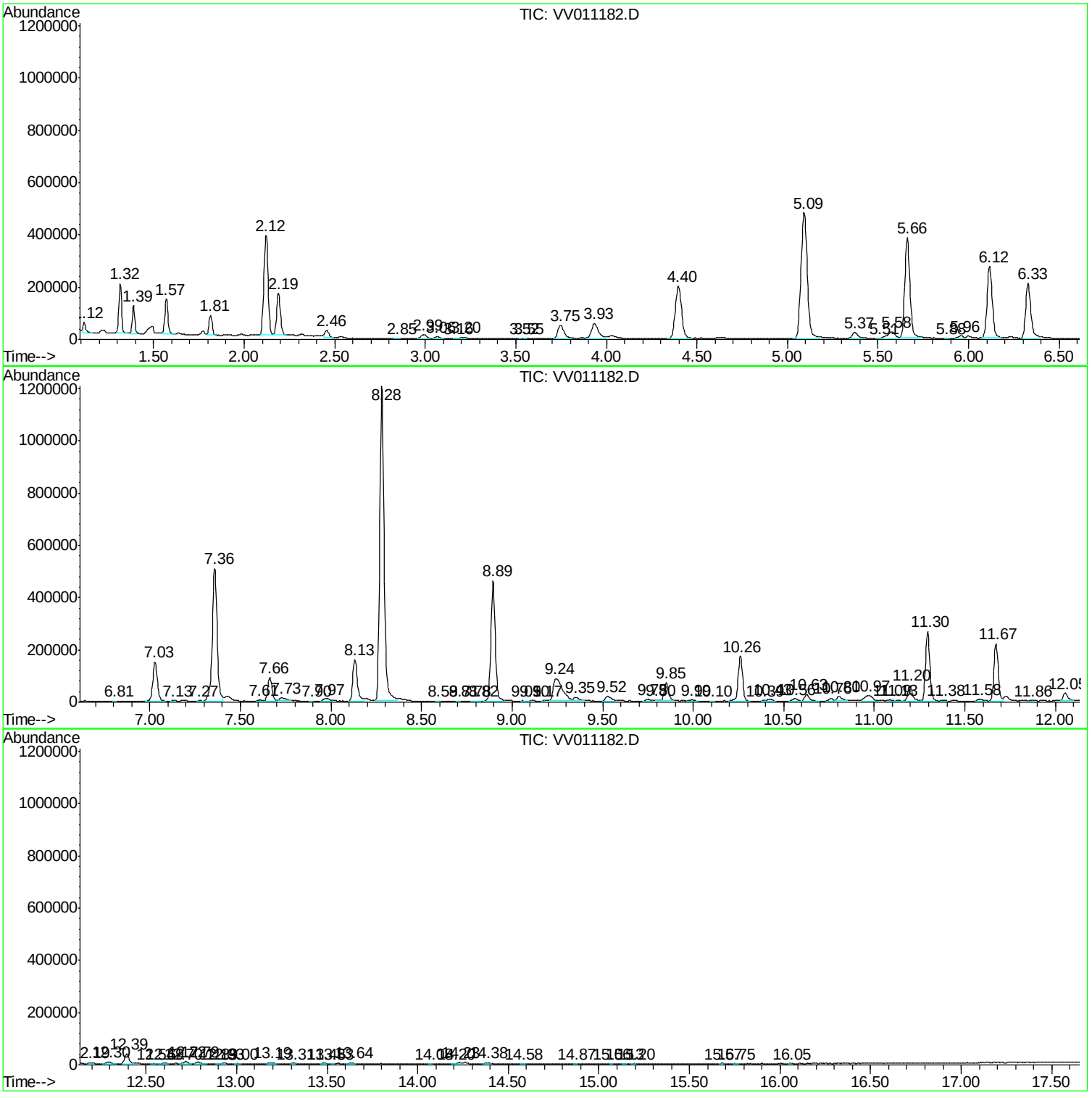
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053119\
Data File : VV011182.D
Acq On : 31 May 2019 17:11
Operator : SY/MD
Sample : K3083-03RE
Misc : 3.07G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
A51F6RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.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\VV053119\
Data File : VV011182.D
Acq On : 31 May 2019 17:11
Operator : SY/MD
Sample : K3083-03RE
Misc : 3.07G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51F6RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

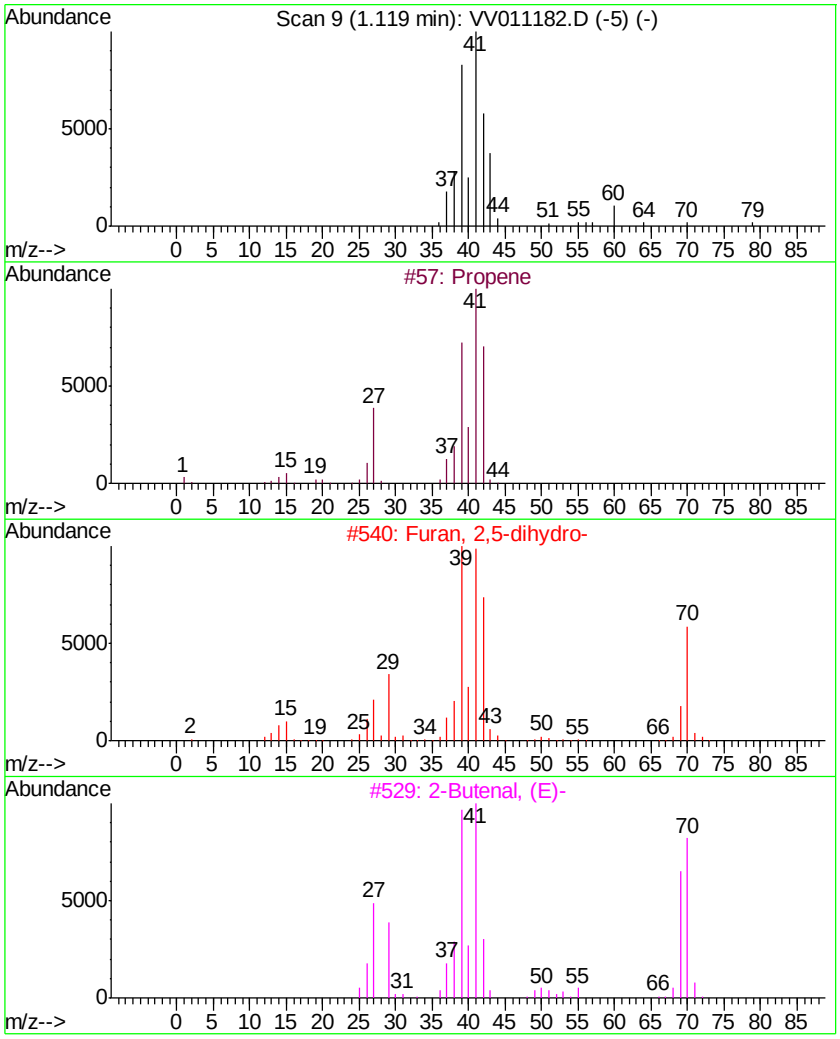
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

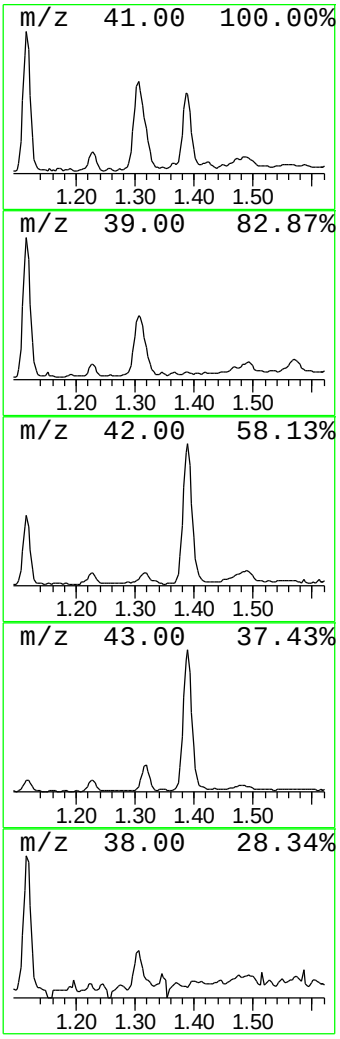
****

Peak Number 1 (DEL) Alkane: Cyclic1.12 Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.12	1.41 ug/L	42707	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propene	42	C3H6	000115-07-1	90
2	Furan, 2,5-dihydro-	70	C4H6O	001708-29-8	64
3	2-Butenal, (E)-	70	C4H6O	000123-73-9	64
4	Cyclopropanecarboxylic acid	86	C4H6O2	001759-53-1	56
5	2-Butenal	70	C4H6O	004170-30-3	43





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053119\
Data File : VV011182.D
Acq On : 31 May 2019 17:11
Operator : SY/MD
Sample : K3083-03RE
Misc : 3.07G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51F6RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

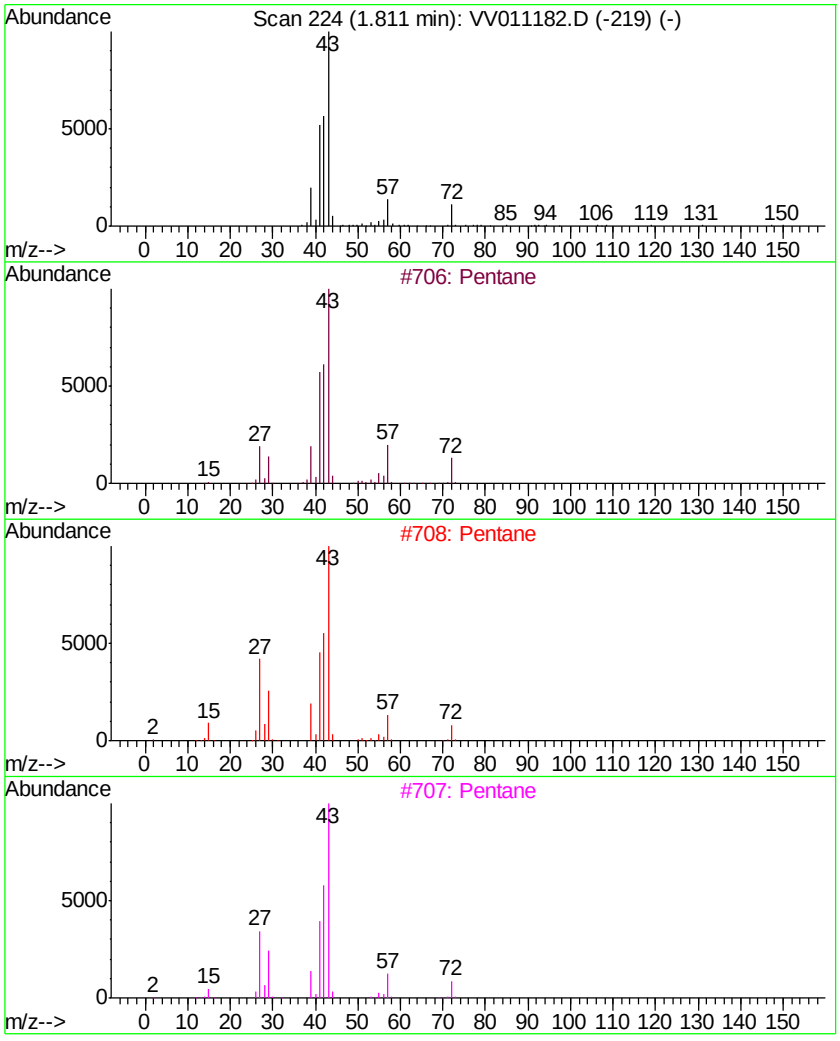
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

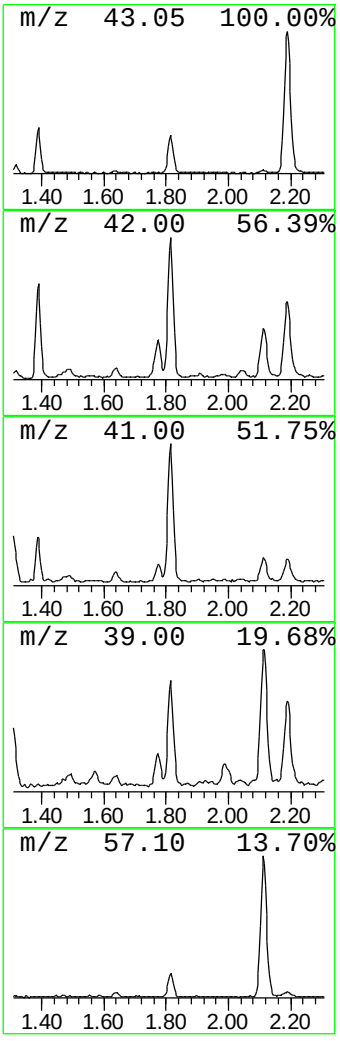
****

Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.81	3.08 ug/L	93485	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane	72	C5H12	000109-66-0	90
2	Pentane	72	C5H12	000109-66-0	86
3	Pentane	72	C5H12	000109-66-0	80
4	Pentane	72	C5H12	000109-66-0	59
5	Oxirane, ethyl-	72	C4H8O	000106-88-7	50





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053119\
Data File : VV011182.D
Acq On : 31 May 2019 17:11
Operator : SY/MD
Sample : K3083-03RE
Misc : 3.07G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51F6RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

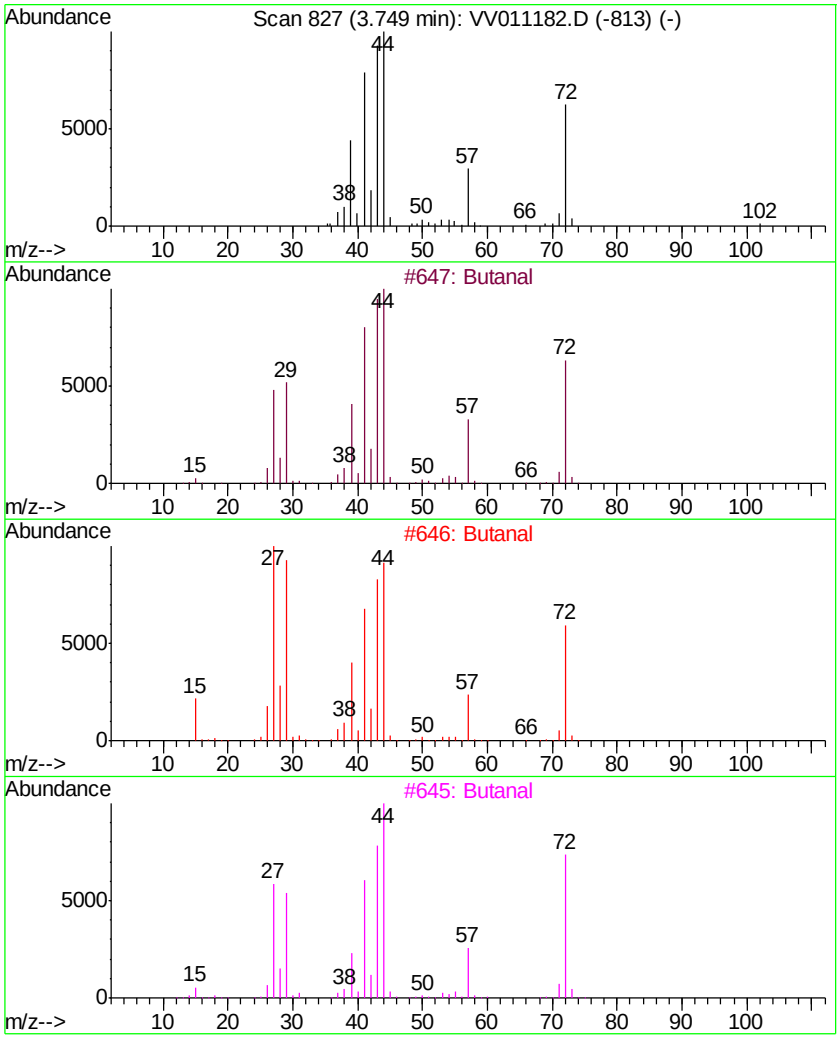
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

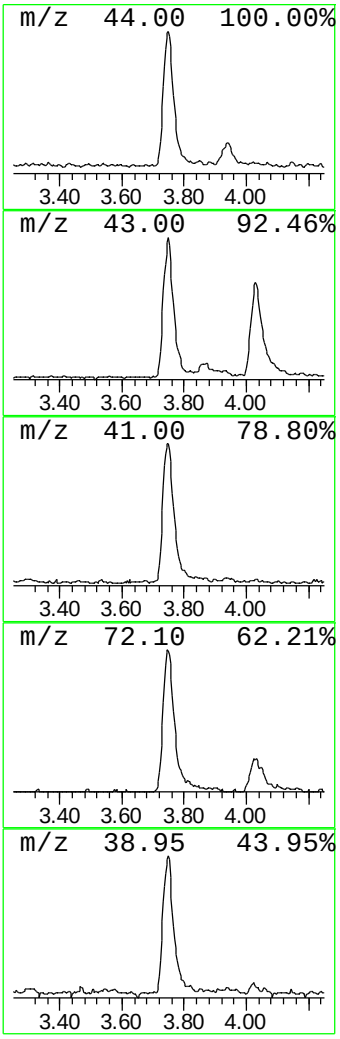
****

Peak Number 4 Butanal Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.75	4.13 ug/L	125318	1,4-Difluorobenzene	5.66

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	64
5	Ethene, ethoxy-	72	C4H8O	000109-92-2	53





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053119\
Data File : VV011182.D
Acq On : 31 May 2019 17:11
Operator : SY/MD
Sample : K3083-03RE
Misc : 3.07G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51F6RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

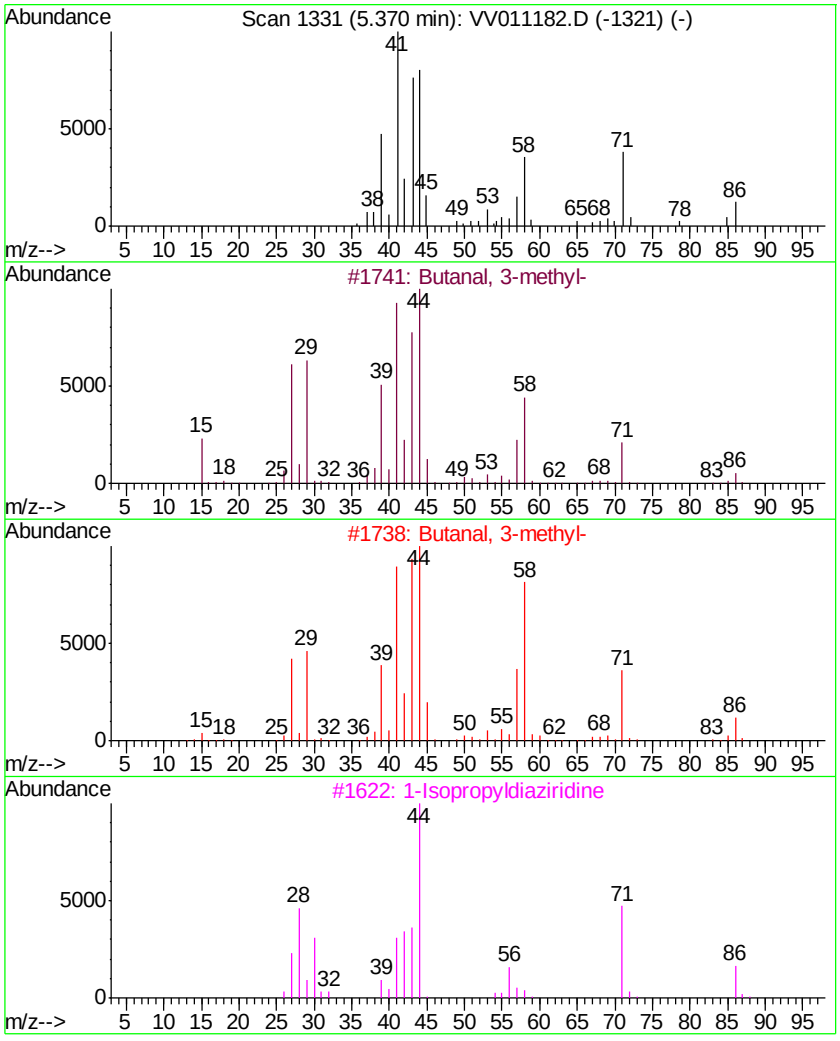
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

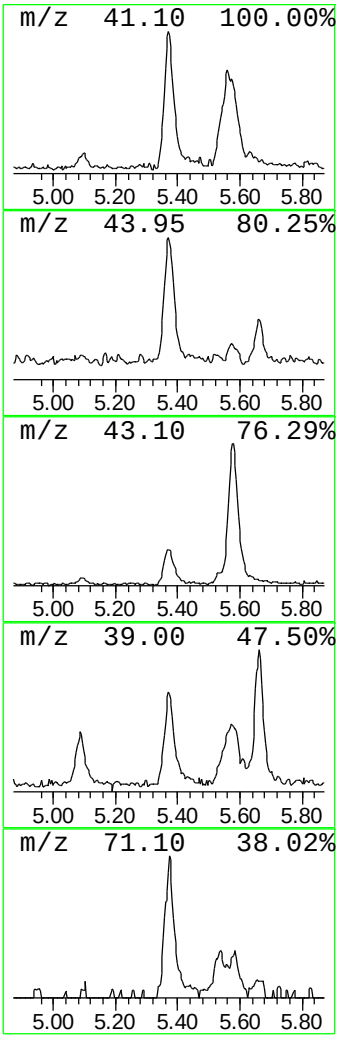
****

Peak Number 5 Butanal, 3-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.37	1.62 ug/L	49059	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butanal, 3-methyl-	86	C5H10O	000590-86-3	64
2	Butanal, 3-methyl-	86	C5H10O	000590-86-3	58
3	1-Isopropyldiaziridine	86	C4H10N2	033657-26-0	50
4	Butanal	72	C4H8O	000123-72-8	38
5	Cyclopropanecarboxamide	85	C4H7NO	006228-73-5	32





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053119\
Data File : VV011182.D
Acq On : 31 May 2019 17:11
Operator : SY/MD
Sample : K3083-03RE
Misc : 3.07G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51F6RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

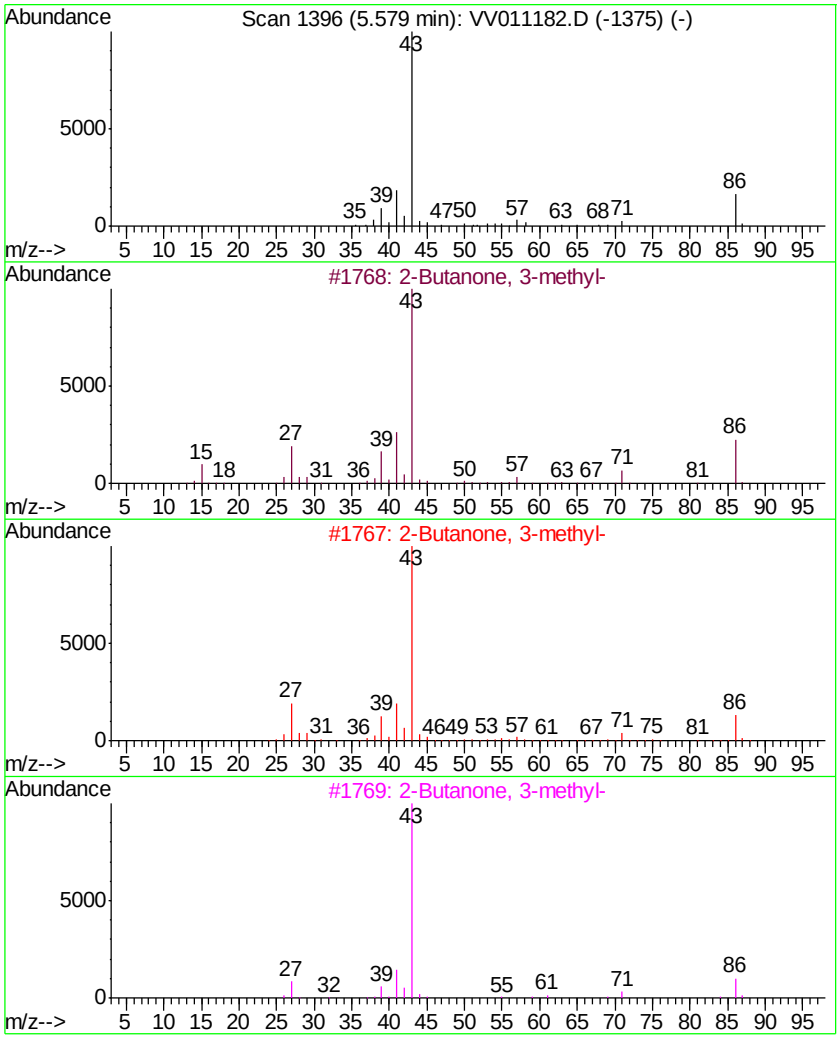
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

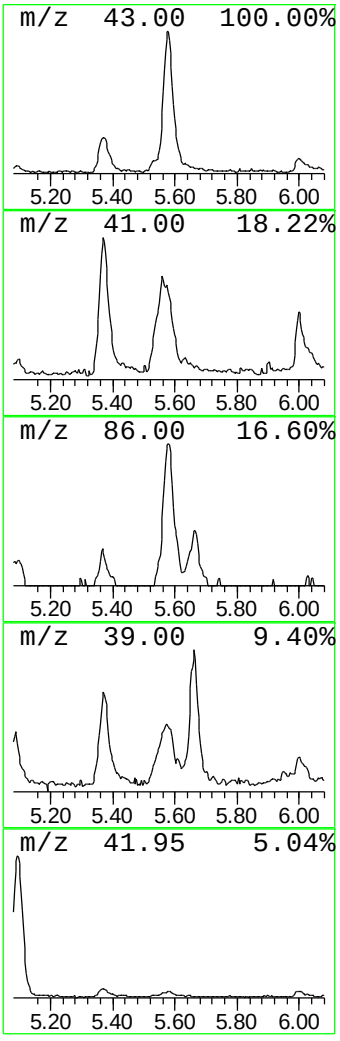
****

Peak Number 6 2-Butanone, 3-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.58	2.49 ug/L	75584	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Butanone, 3-methyl-	86	C5H10O	000563-80-4	64
2	2-Butanone, 3-methyl-	86	C5H10O	000563-80-4	59
3	2-Butanone, 3-methyl-	86	C5H10O	000563-80-4	53
4	2,3-Butanedione	86	C4H6O2	000431-03-8	40
5	2-Pentanone	86	C5H10O	000107-87-9	38





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053119\
Data File : VV011182.D
Acq On : 31 May 2019 17:11
Operator : SY/MD
Sample : K3083-03RE
Misc : 3.07G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51F6RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

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

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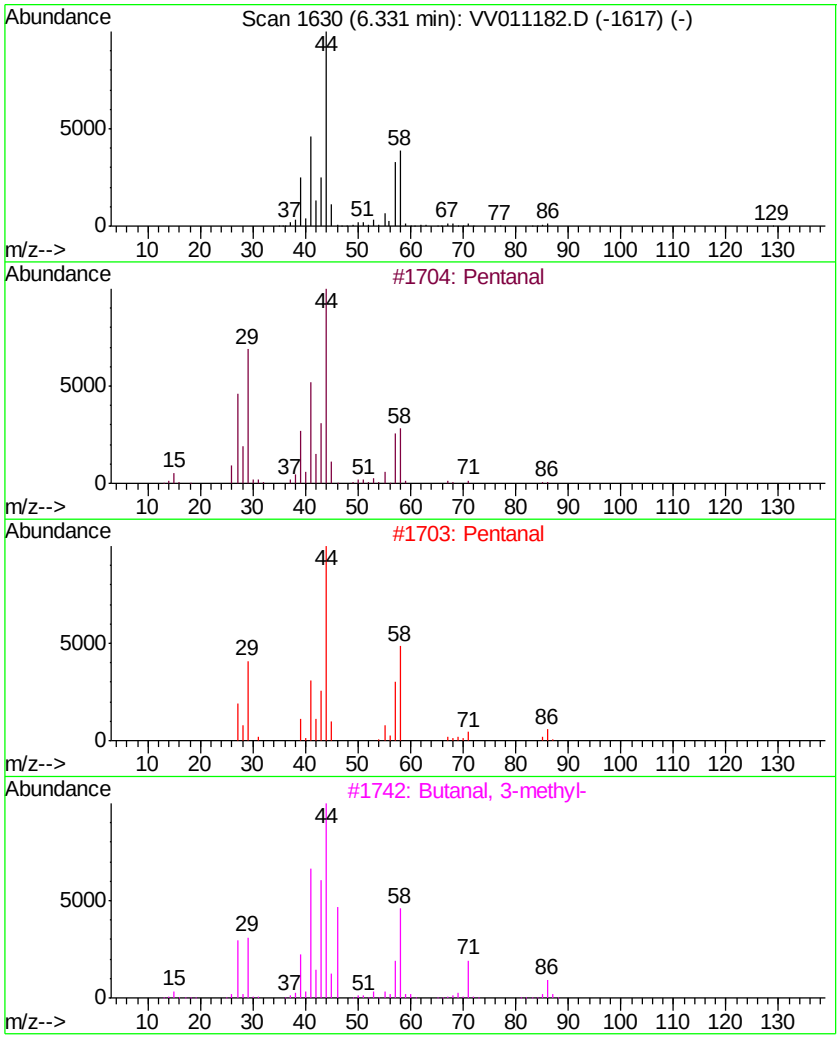
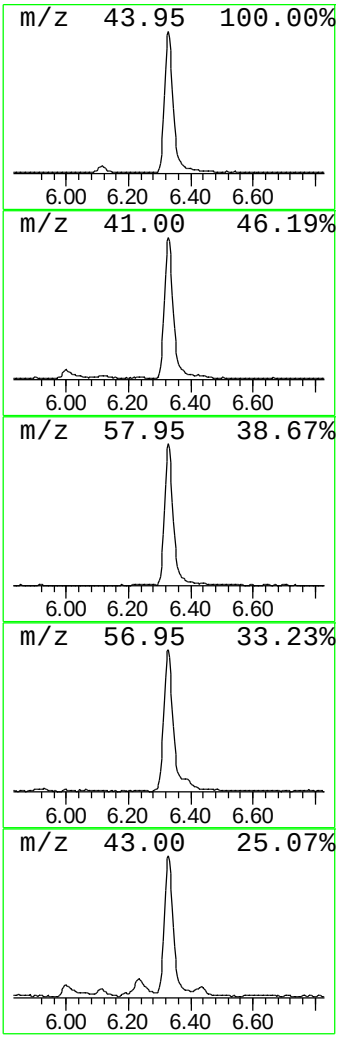
Peak Number 7 Pentanal Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.33	13.76 ug/L	417067	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentanal	86	C5H10O	000110-62-3	90
2	Pentanal	86	C5H10O	000110-62-3	64
3	Butanal, 3-methyl-	86	C5H10O	000590-86-3	64
4	Pentanal	86	C5H10O	000110-62-3	58
5	Butanal, 3-methyl-	86	C5H10O	000590-86-3	40





Library Search Compound Report

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Data File : VV011182.D
Acq On : 31 May 2019 17:11
Operator : SY/MD
Sample : K3083-03RE
Misc : 3.07G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51F6RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

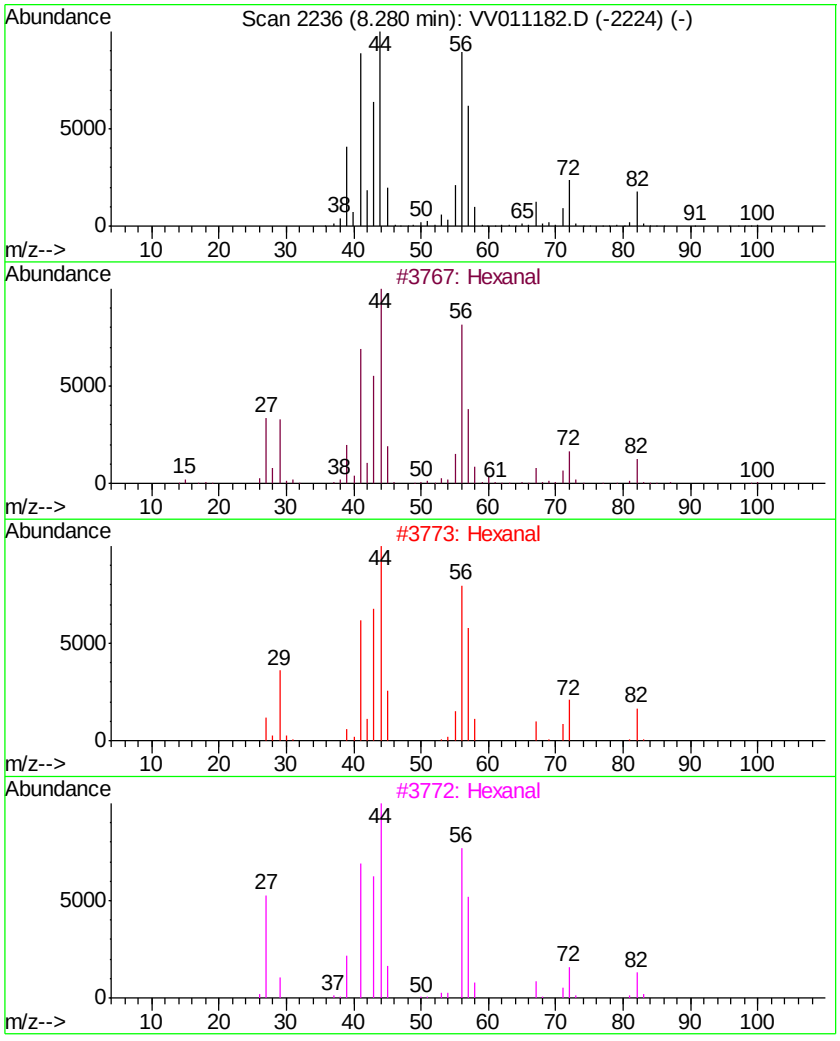
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

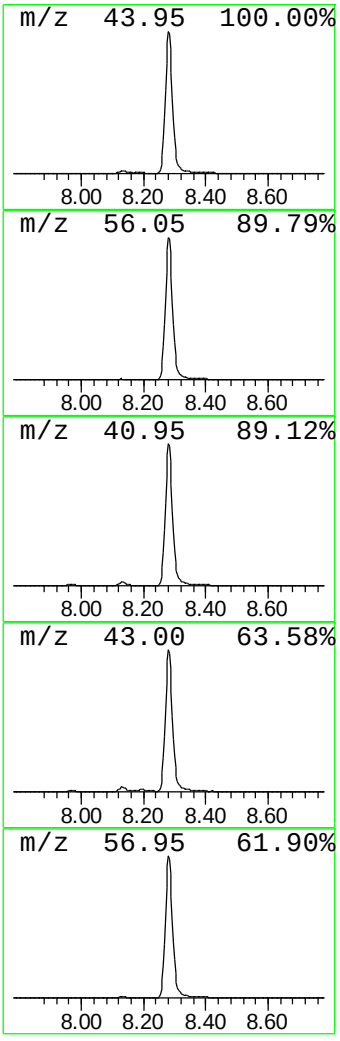
****

Peak Number 9 Hexanal Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.28	63.92 ug/L	1982660	Chlorobenzene-d5	8.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexanal	100	C6H12O	000066-25-1	87
2	Hexanal	100	C6H12O	000066-25-1	80
3	Hexanal	100	C6H12O	000066-25-1	80
4	Hexanal	100	C6H12O	000066-25-1	80
5	Glutaraldehyde	100	C5H8O2	000111-30-8	30





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Data File : VV011182.D
Acq On : 31 May 2019 17:11
Operator : SY/MD
Sample : K3083-03RE
Misc : 3.07G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51F6RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

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

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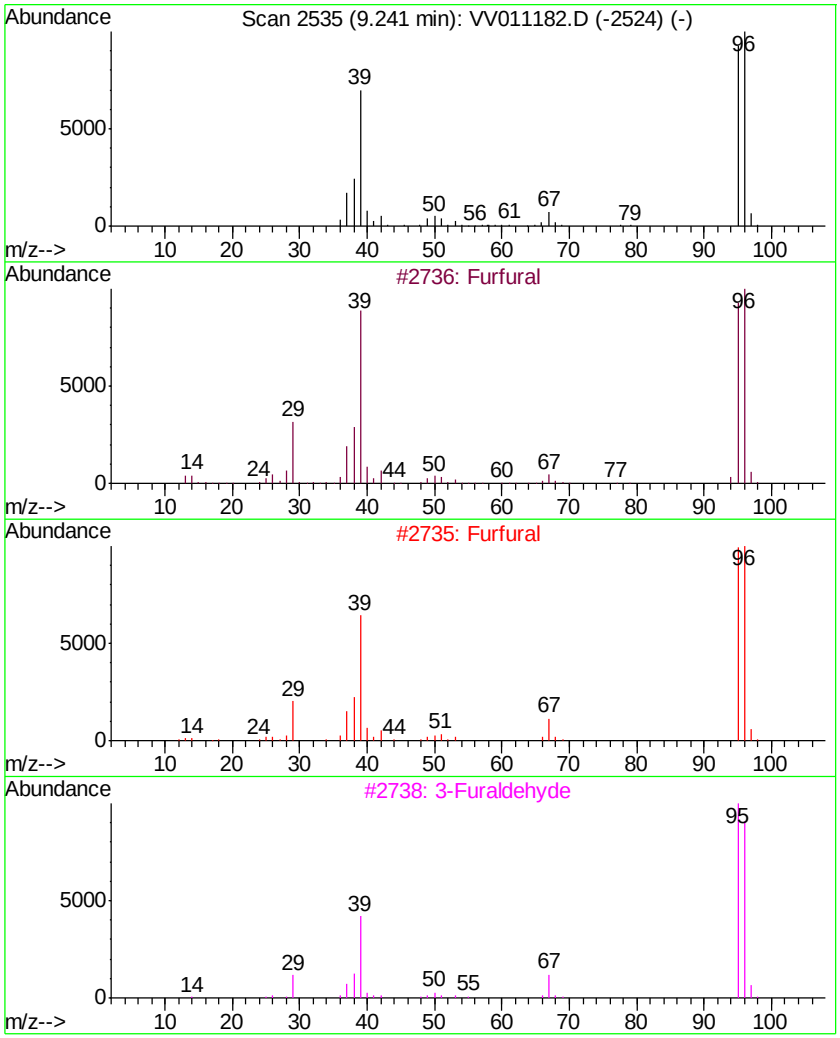
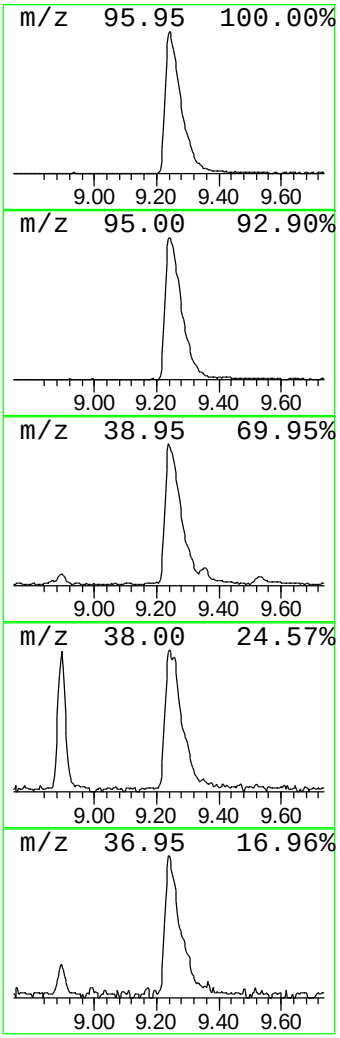
Peak Number 10 Furfural Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.24	9.42 ug/L	292031	Chlorobenzene-d5	8.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Furfural	96	C5H4O2	000098-01-1	96
2	Furfural	96	C5H4O2	000098-01-1	94
3	3-Furaldehyde	96	C5H4O2	000498-60-2	91
4	1H-Imidazole, 1,5-dimethyl-	96	C5H8N2	010447-93-5	78
5	Furfural	96	C5H4O2	000098-01-1	68





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Data File : VV011182.D
Acq On : 31 May 2019 17:11
Operator : SY/MD
Sample : K3083-03RE
Misc : 3.07G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51F6RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

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

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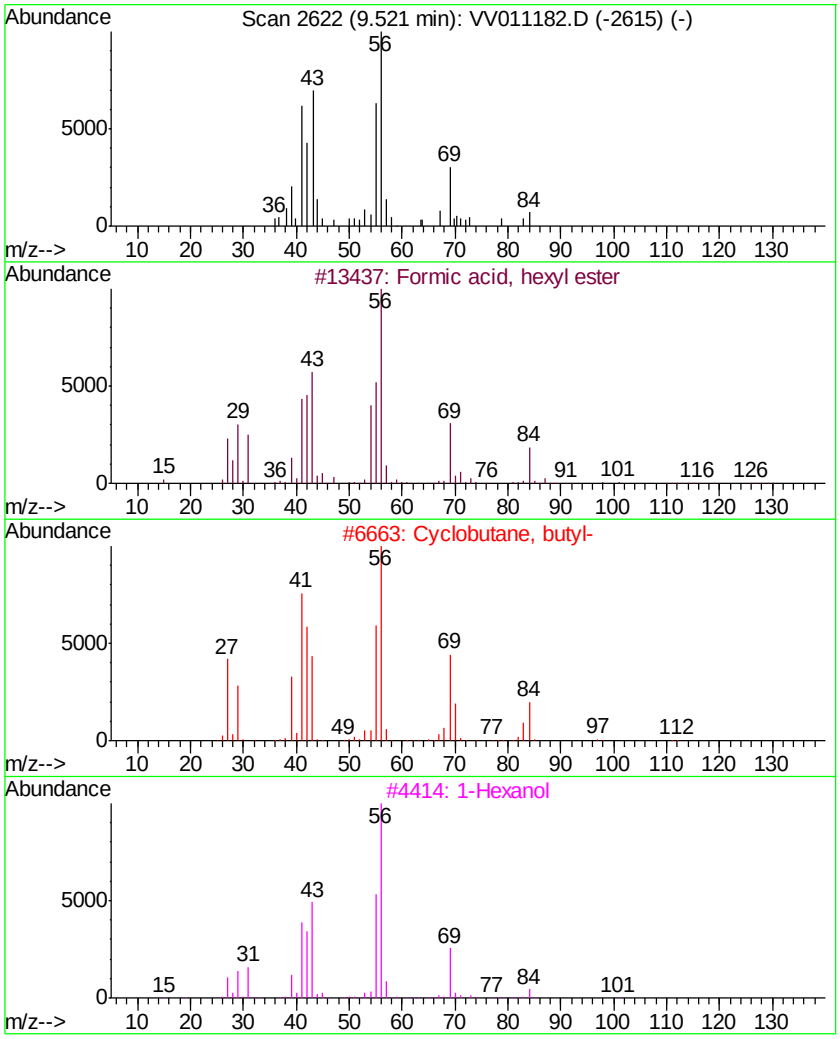
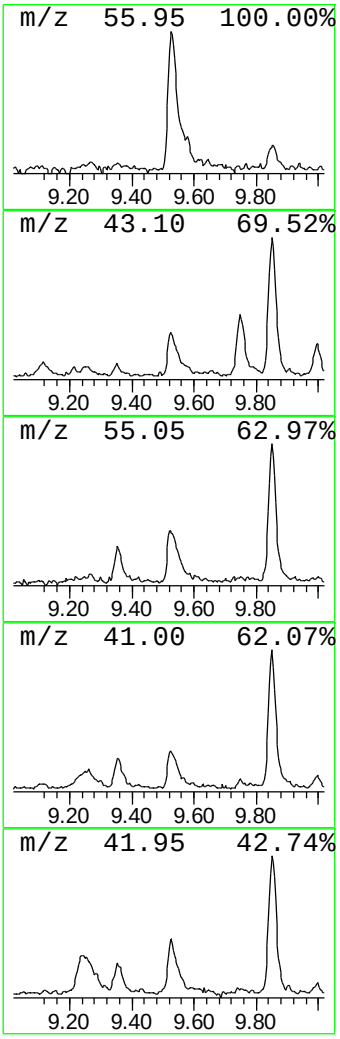
Peak Number 11 Formic acid, hexyl ester Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.52	1.36 ug/L	42324	Chlorobenzene-d5	8.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Formic acid, hexyl ester	130	C7H14O2	000629-33-4	78
2	Cyclobutane, butyl-	112	C8H16	013152-44-8	72
3	1-Hexanol	102	C6H14O	000111-27-3	72
4	Cyclopropane, propyl-	84	C6H12	002415-72-7	64
5	Formic acid, hexyl ester	130	C7H14O2	000629-33-4	64





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053119\
Data File : VV011182.D
Acq On : 31 May 2019 17:11
Operator : SY/MD
Sample : K3083-03RE
Misc : 3.07G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51F6RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

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

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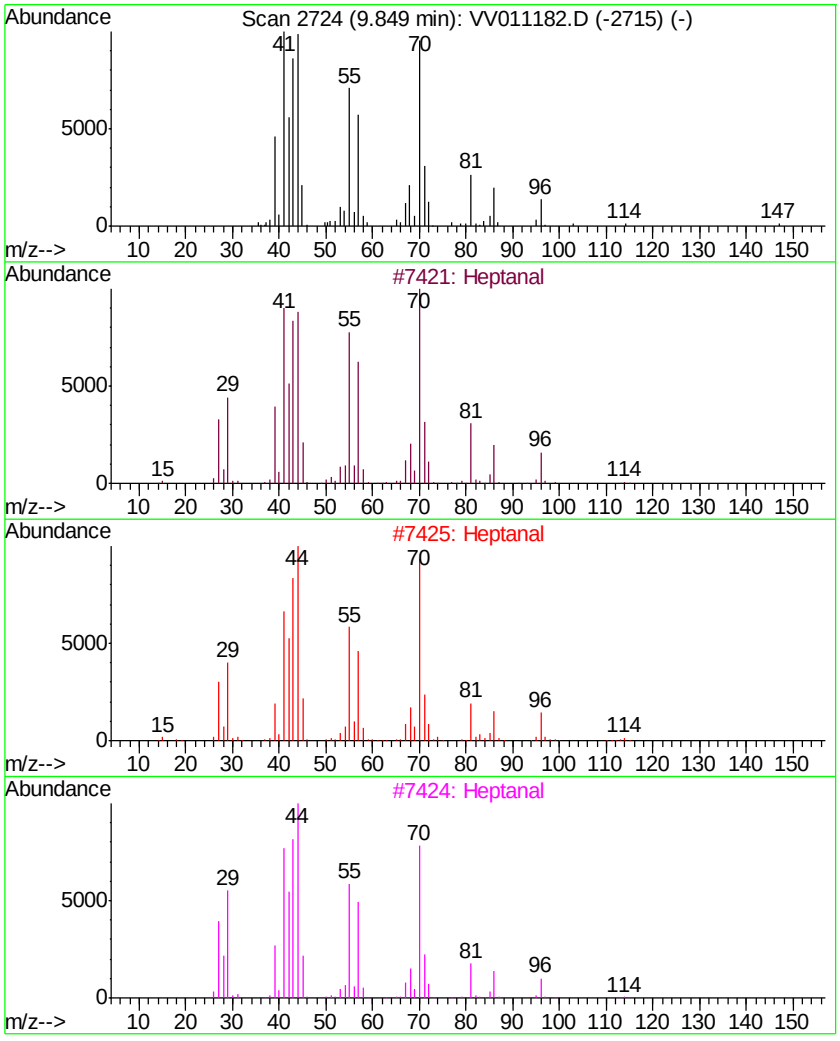
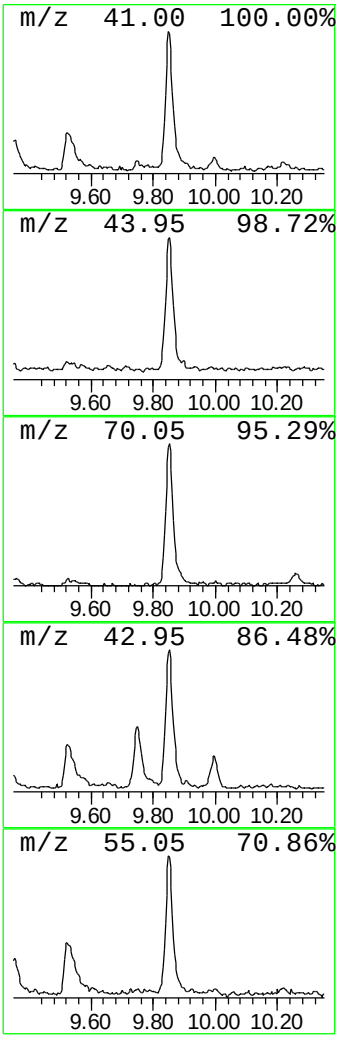
Peak Number 12 Heptanal Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.85	3.64 ug/L	113045	Chlorobenzene-d5	8.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptanal	114	C7H14O	000111-71-7	91
2	Heptanal	114	C7H14O	000111-71-7	80
3	Heptanal	114	C7H14O	000111-71-7	80
4	Heptanal	114	C7H14O	000111-71-7	80
5	Heptanal	114	C7H14O	000111-71-7	72





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Data File : VV011182.D
Acq On : 31 May 2019 17:11
Operator : SY/MD
Sample : K3083-03RE
Misc : 3.07G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51F6RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

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

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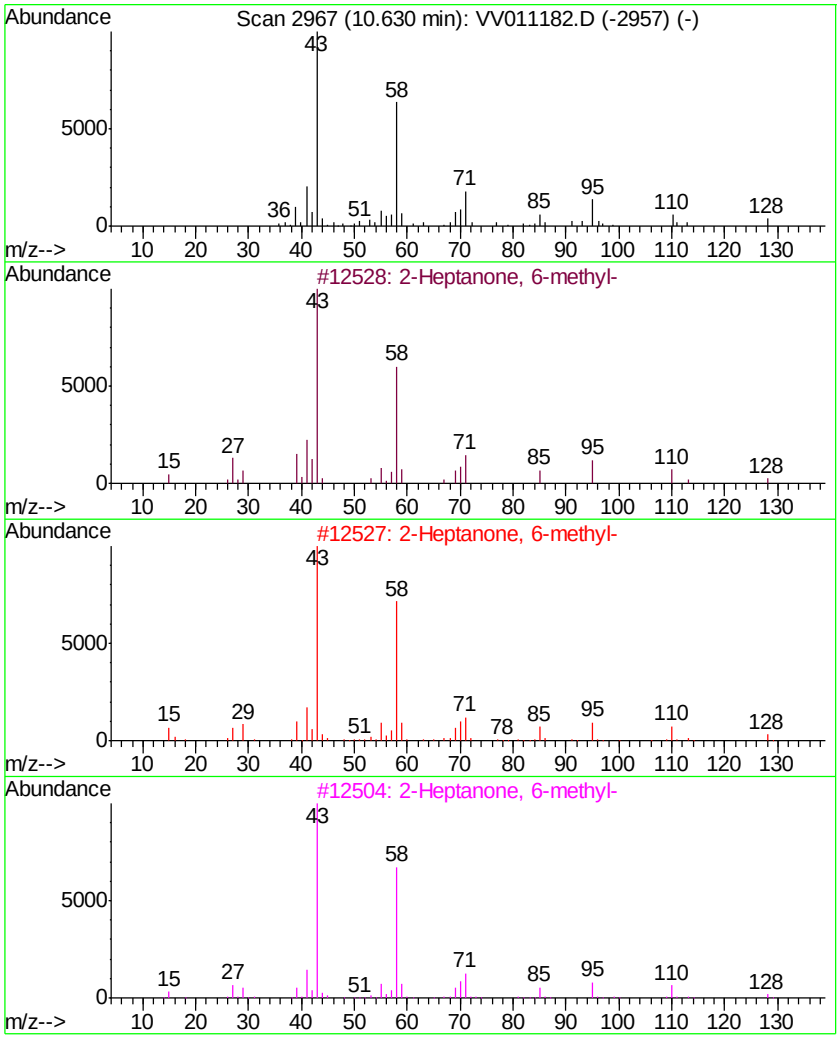
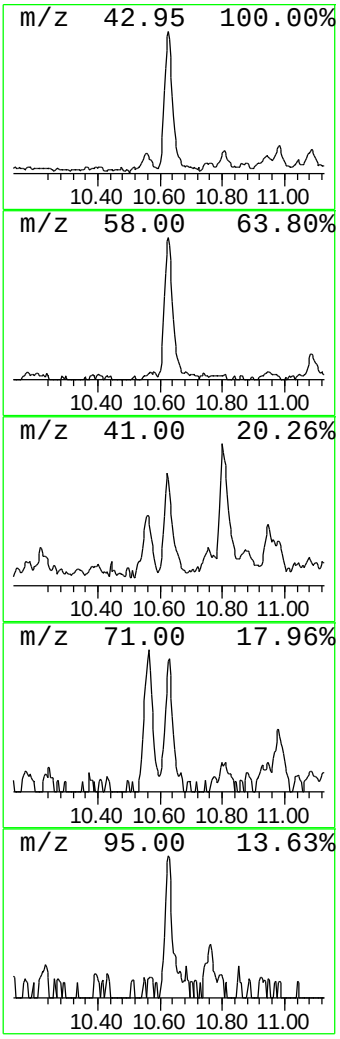
Peak Number 13 2-Heptanone, 6-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.63	2.81 ug/L	49604	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Heptanone, 6-methyl-	128	C8H16O	000928-68-7	90
2	2-Heptanone, 6-methyl-	128	C8H16O	000928-68-7	90
3	2-Heptanone, 6-methyl-	128	C8H16O	000928-68-7	83
4	2-Isopropyl-5-oxohexanal	156	C9H16O2	015303-46-5	64
5	2-Octanone	128	C8H16O	000111-13-7	52





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053119\
Data File : VV011182.D
Acq On : 31 May 2019 17:11
Operator : SY/MD
Sample : K3083-03RE
Misc : 3.07G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51F6RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

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

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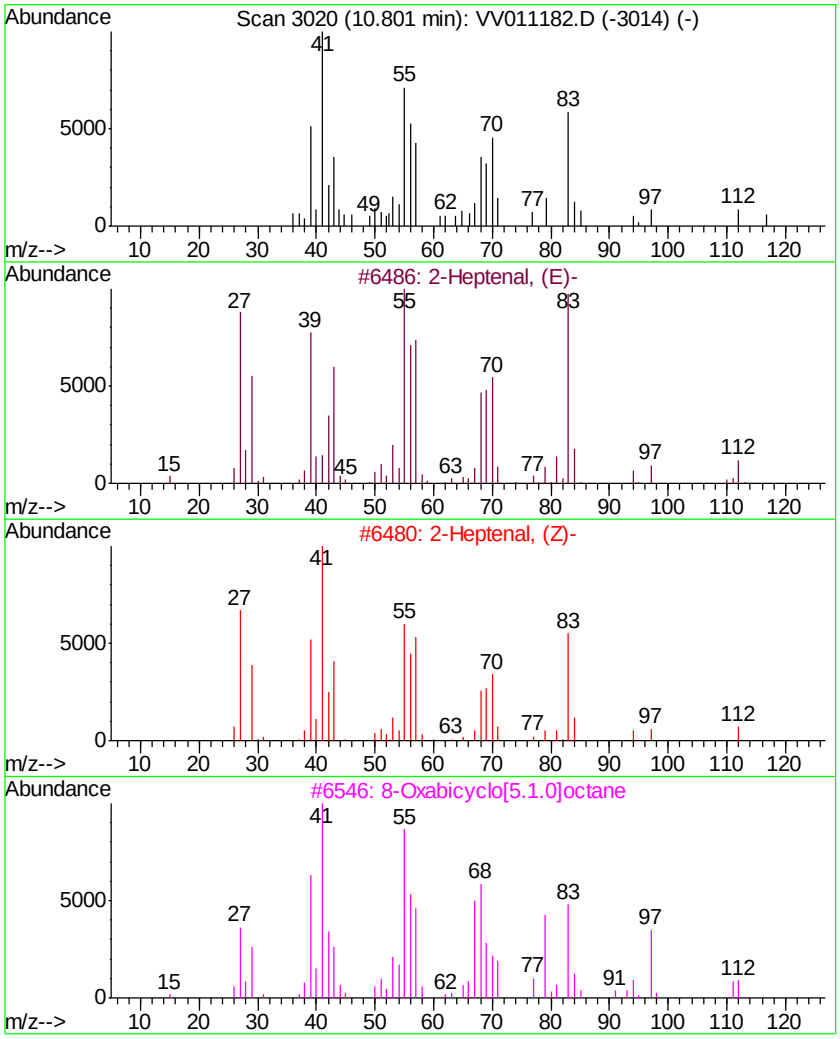
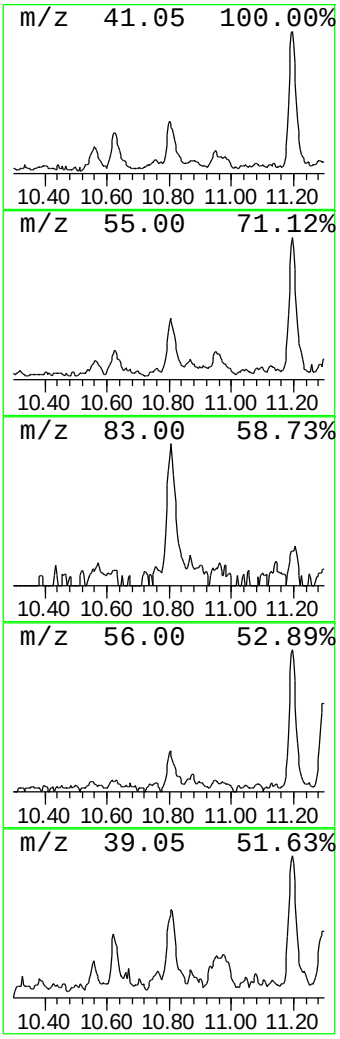
Peak Number 14 2-Heptenal, (E)- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.80	1.68 ug/L	29526	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Heptenal, (E)-	112	C7H12O	018829-55-5	96
2	2-Heptenal, (Z)-	112	C7H12O	057266-86-1	94
3	8-Oxabicyclo[5.1.0]octane	112	C7H12O	000286-45-3	62
4	Diphosphoric acid, diisooctyl ester	402	C16H36O7P2	072101-07-6	53
5	Cyclopentane, 1-ethyl-2-methyl-,...	112	C8H16	000930-89-2	52





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Data File : VV011182.D
Acq On : 31 May 2019 17:11
Operator : SY/MD
Sample : K3083-03RE
Misc : 3.07G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51F6RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

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

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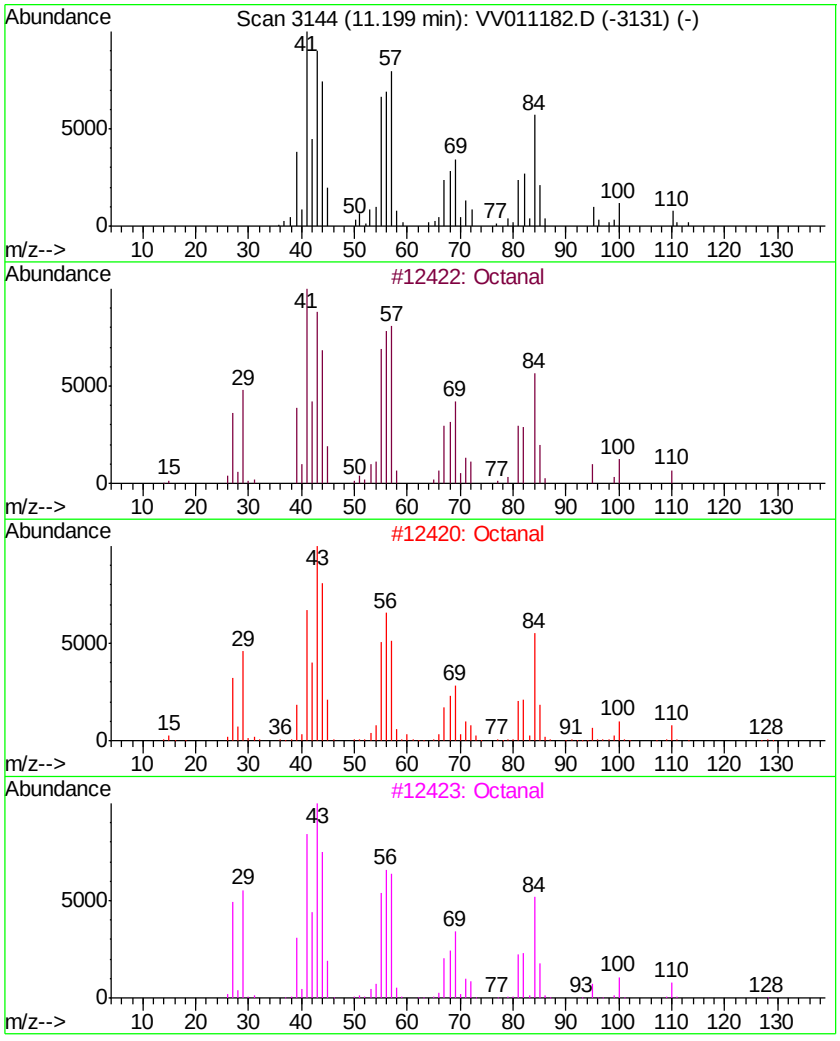
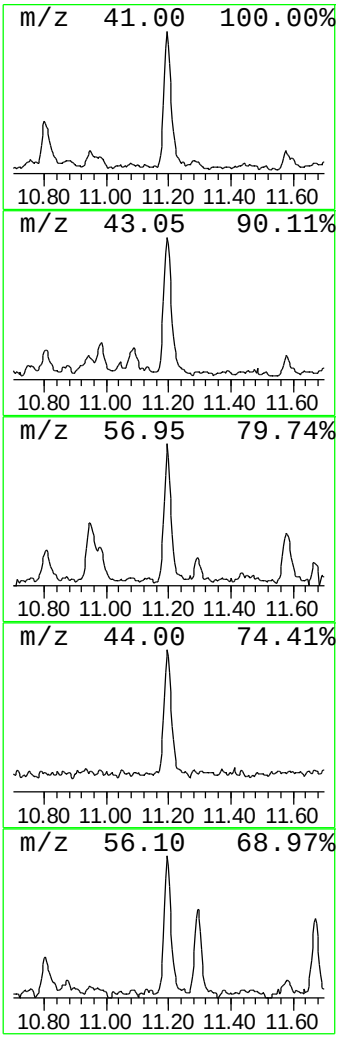
Peak Number 16 Octanal Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.20	5.94 ug/L	104642	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octanal	128	C8H16O	000124-13-0	91
2	Octanal	128	C8H16O	000124-13-0	91
3	Octanal	128	C8H16O	000124-13-0	91
4	Octanal	128	C8H16O	000124-13-0	87
5	Octanal	128	C8H16O	000124-13-0	78





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Operator : SY/MD
Sample : K3083-03RE
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ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51F6RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

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

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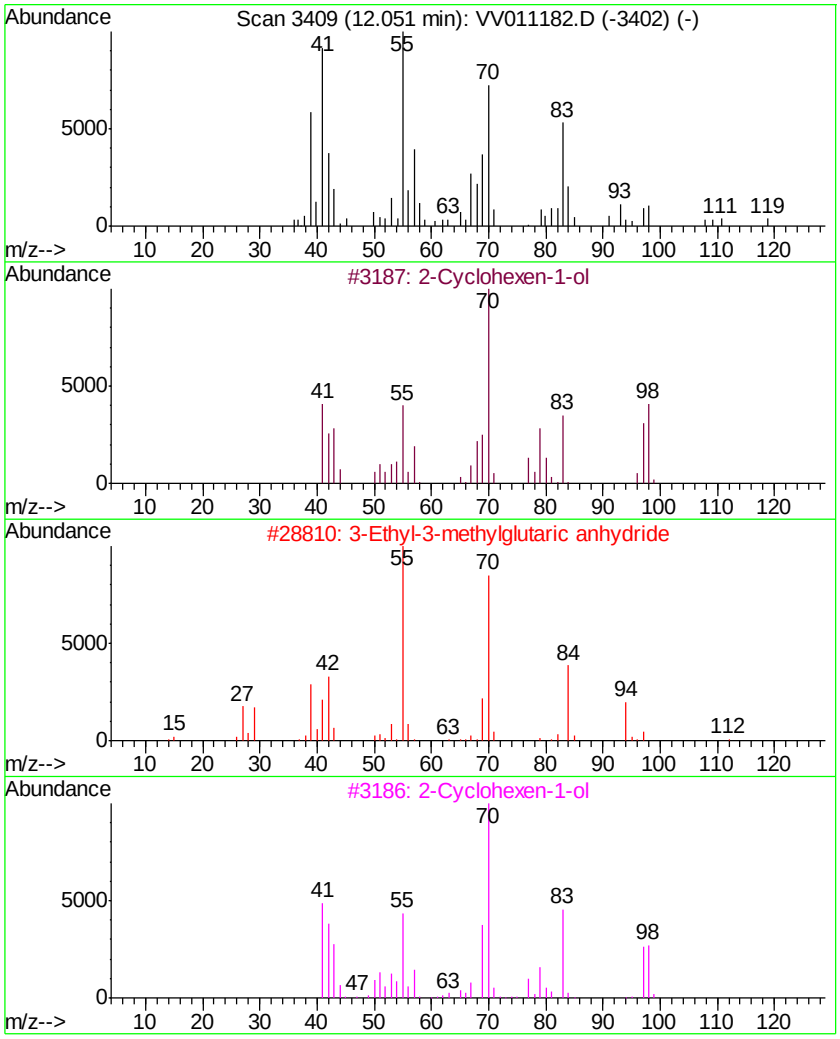
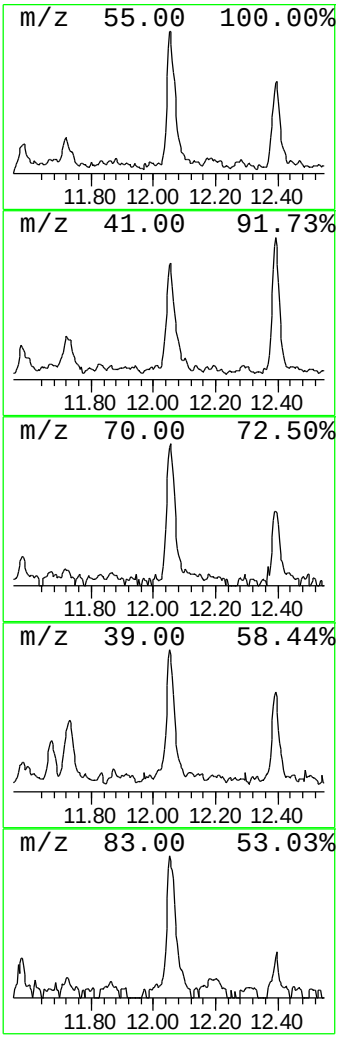
Peak Number 17 unknown-01 Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.05	2.80 ug/L	49441	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Cyclohexen-1-ol	98	C6H10O	000822-67-3	43
2	3-Ethyl-3-methylglutaric anhydride	156	C8H12O3	006970-57-6	43
3	2-Cyclohexen-1-ol	98	C6H10O	000822-67-3	43
4	1H-Imidazole, 4,5-dihydro-2,4-di...	98	C5H10N2	000930-61-0	38
5	Cyclopropane, 1,1-dimethyl-	70	C5H10	001630-94-0	35





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053119\
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Operator : SY/MD
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Misc : 3.07G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51F6RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

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

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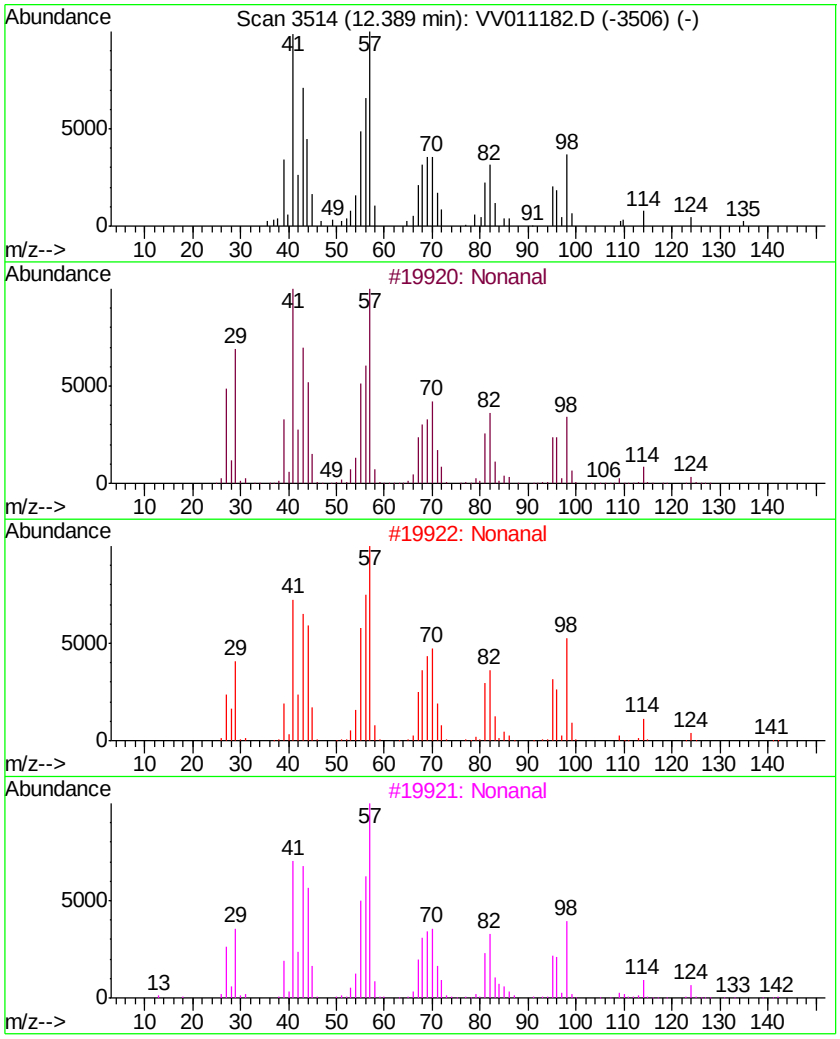
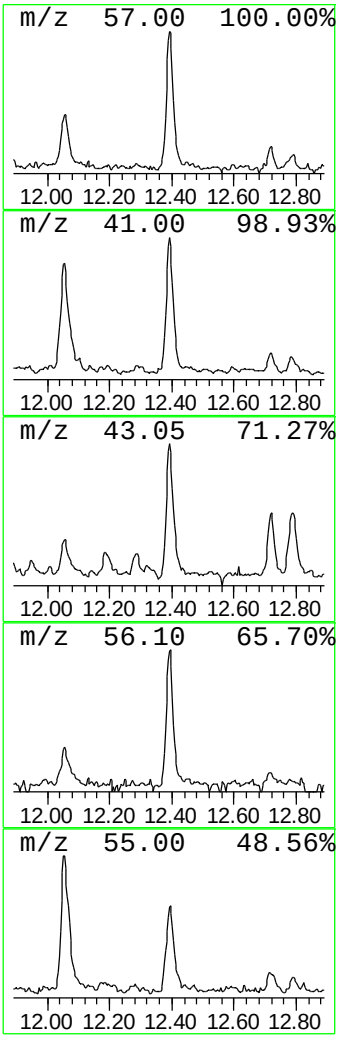
Peak Number 18 Nonanal Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	3.51 ug/L	61867	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	91
3	Nonanal	142	C9H18O	000124-19-6	91
4	Nonanal	142	C9H18O	000124-19-6	86
5	(Z)-Hex-2-ene, 5-methyl-	98	C7H14	013151-17-2	27





Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053119\
Data File : VV011182.D
Acq On : 31 May 2019 17:11
Operator : SY/MD
Sample : K3083-03RE
Misc : 3.07G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51F6RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.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
(DEL) Alkane: Cyc...	1.12	1.4	ug/L	42707	1	5.66	757776	25.0
(DEL) Alkane: Str...	1.81	3.1	ug/L	93485	1	5.66	757776	25.0
Butanal	3.75	4.1	ug/L	125318	1	5.66	757776	25.0
Butanal, 3-methyl-	5.37	1.6	ug/L	49059	1	5.66	757776	25.0
2-Butanone, 3-met...	5.58	2.5	ug/L	75584	1	5.66	757776	25.0
Pentanal	6.33	13.8	ug/L	417067	1	5.66	757776	25.0
Hexanal	8.28	63.9	ug/L	1982660	2	8.89	775421	25.0
Furfural	9.24	9.4	ug/L	292031	2	8.89	775421	25.0
Formic acid, hexy...	9.52	1.4	ug/L	42324	2	8.89	775421	25.0
Heptanal	9.85	3.6	ug/L	113045	2	8.89	775421	25.0
2-Heptanone, 6-me...	10.63	2.8	ug/L	49604	3	11.30	440661	25.0
2-Heptenal, (E)-	10.80	1.7	ug/L	29526	3	11.30	440661	25.0
Octanal	11.20	5.9	ug/L	104642	3	11.30	440661	25.0
unknown-01	12.05	2.8	ug/L	49441	3	11.30	440661	25.0
Nonanal	12.39	3.5	ug/L	61867	3	11.30	440661	25.0