LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092419\
Data File : VU034780.D
Acq On : 24 Sep 2019 18:46
Operator : JC/SP
Sample : K4932-09
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : VHBLK01

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\SOMULM091919WMA.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	1.174	22	26	35	rBV4	7265	7543	0.27%	0.029%
2	1.392	84	94	108	rBV	355175	396033	14.43%	1.547%
3	1.540	133	140	146	rBV2	28258	40405	1.47%	0.158%
4	1.669	172	180	193	rBV	307560	395234	14.40%	1.544%
5	2.257	353	363	387	rVB	576863	899884	32.80%	3.516%
6	2.679	485	494	502	rBV8	7758	13301	0.48%	0.052%
7	2.820	527	538	551	rVB3	11797	26619	0.97%	0.104%
8	4.148	937	951	986	rBV	272132	766648	27.94%	2.996%
9	4.621	1080	1098	1121	rBV	437634	1047521	38.18%	4.093%
10	4.961	1195	1204	1210	rBV10	2715	4225	0.15%	0.017%
11	5.116	1247	1252	1255	rBV5	3273	3166	0.12%	0.012%
12	5.315	1288	1314	1341	rBV2	938040	2743739	100.00%	10.721%
13	5.756	1442	1451	1454	rBV8	2775	3665	0.13%	0.014%
14	5.862	1469	1484	1512	rBV	731606	1539248	56.10%	6.014%
15	6.154	1565	1575	1589	rVB9	27126	64107	2.34%	0.250%
16	6.309	1609	1623	1646	rVV	629554	1280751	46.68%	5.004%
17	6.392	1647	1649	1654	rVB6	3486	2614	0.10%	0.010%
18	6.797	1772	1775	1779	rBV5	2060	1937	0.07%	0.008%
19	6.875	1792	1799	1807	rVV10	2112	3487	0.13%	0.014%
20	7.157	1879	1887	1891	rBV3	16446	23154	0.84%	0.090%
21	7.206	1892	1902	1924	rVB2	370131	665909	24.27%	2.602%
22	7.321	1931	1938	1946	rVB5	11570	18336	0.67%	0.072%
23	7.447	1972	1977	1987	rVB5	5996	8370	0.31%	0.033%
24	7.543	1987	2007	2027	rBV	1249768	2228841	81.23%	8.709%
25	7.746	2068	2070	2078	rVB7	4146	4698	0.17%	0.018%
26	7.829	2078	2096	2110	rBV2	247489	492630	17.95%	1.925%
27	8.019	2152	2155	2166	rVB10	4939	7921	0.29%	0.031%
28	8.209	2206	2214	2225	rVB8	9896	19045	0.69%	0.074%
29	8.289	2228	2239	2275	rBV	896709	1710083	62.33%	6.682%
30	8.431	2278	2283	2289	rBV3	8907	11335	0.41%	0.044%
31	8.524	2306	2312	2320	rVB3	18382	25268	0.92%	0.099%
32	8.585	2322	2331	2342	rBV4	26896	51706	1.88%	0.202%
33	8.727	2370	2375	2377	rBV5	6307	5720	0.21%	0.022%
34	8.794	2388	2396	2401	rBV5	18043	29495	1.07%	0.115%

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092419\
Data File : VU034780.D
Acq On : 24 Sep 2019 18:46
Operator : JC/SP
Sample : K4932-09
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : VHBLK01

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\SOMULM091919WMA.M
Title : VOC Analysis

35	8.833	2403	2408	2416	rVV7	18110	35889	1.31%	0.140%
36	8.887	2417	2425	2440	rVB4	52056	94872	3.46%	0.371%
37	9.009	2453	2463	2470	rBV2	52403	87903	3.20%	0.343%
38	9.067	2470	2481	2501	rVV	1025158	1694961	61.78%	6.623%
39	9.225	2522	2530	2543	rVB	10639	21292	0.78%	0.083%
40	9.325	2550	2561	2570	rVV8	20671	51302	1.87%	0.200%
41	9.382	2573	2579	2584	rVV3	32107	49269	1.80%	0.193%
42	9.421	2584	2591	2617	rVB2	116814	206533	7.53%	0.807%
43	9.543	2624	2629	2638	rVB9	7162	11202	0.41%	0.044%
44	9.698	2663	2677	2687	rBV5	36774	74261	2.71%	0.290%
45	9.739	2687	2690	2693	rVB4	4415	3218	0.12%	0.013%
46	9.797	2701	2708	2718	rVB4	15799	20947	0.76%	0.082%
47	9.929	2732	2749	2761	rBV7	52573	104169	3.80%	0.407%
48	10.022	2761	2778	2786	rBV5	56176	118649	4.32%	0.464%
49	10.067	2788	2792	2804	rVB3	28966	41322	1.51%	0.161%
50	10.135	2804	2813	2824	rVB10	10035	20010	0.73%	0.078%
51	10.206	2824	2835	2837	rBV6	13626	21530	0.78%	0.084%
52	10.299	2852	2864	2869	rBV4	32477	56218	2.05%	0.220%
53	10.408	2887	2898	2912	rBV	798336	1363438	49.69%	5.328%
54	10.566	2944	2947	2950	rBV5	2634	2248	0.08%	0.009%
55	10.611	2953	2961	2969	rVV8	14258	28348	1.03%	0.111%
56	10.675	2973	2981	2989	rVV8	19314	39459	1.44%	0.154%
57	10.730	2990	2998	3008	rVV5	44764	83040	3.03%	0.324%
58	10.791	3009	3017	3030	rVB2	116964	183531	6.69%	0.717%
59	10.897	3046	3050	3051	rBV3	5592	3524	0.13%	0.014%
60	10.942	3059	3064	3065	rBV3	11295	8591	0.31%	0.034%
61	11.051	3090	3098	3103	rBV8	12088	18709	0.68%	0.073%
62	11.090	3103	3110	3117	rBV3	46292	69661	2.54%	0.272%
63	11.244	3148	3158	3159	rBV9	12276	14062	0.51%	0.055%
64	11.373	3190	3198	3207	rBV3	47393	77821	2.84%	0.304%
65	11.460	3215	3225	3247	rBV	1004658	1643394	59.90%	6.421%
66	11.546	3248	3252	3258	rVV4	22614	27066	0.99%	0.106%
67	11.585	3259	3264	3274	rVB5	26126	36571	1.33%	0.143%
68	11.678	3287	3293	3305	rVB7	28072	46200	1.68%	0.181%
69	11.752	3312	3316	3318	rBV4	6033	5371	0.20%	0.021%
70	11.836	3331	3342	3366	rVB	1198884	1973591	71.93%	7.712%
71	12.003	3386	3394	3401	rBV3	80707	115009	4.19%	0.449%

LSC Area Percent Report

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Data File : VU034780.D
Acq On : 24 Sep 2019 18:46
Operator : JC/SP
Sample : K4932-09
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : VHBLK01

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\SOMULM091919WMA.M
Title : VOC Analysis

72	12.341	3492	3499	3503	rBV6	19638	28495	1.04%	0.111%
73	12.485	3531	3544	3554	rBV6	47720	106796	3.89%	0.417%
74	12.591	3567	3577	3583	rBV4	48764	86559	3.15%	0.338%
75	12.704	3598	3612	3624	rVB4	44254	114536	4.17%	0.448%
76	12.768	3625	3632	3638	rBV4	33482	51580	1.88%	0.202%
77	13.016	3702	3709	3717	rBV8	30664	55873	2.04%	0.218%
78	13.106	3730	3737	3750	rBV5	74062	149955	5.47%	0.586%
79	13.260	3778	3785	3792	rBV6	45527	71177	2.59%	0.278%
80	13.382	3820	3823	3831	rVB9	16645	20692	0.75%	0.081%
81	13.431	3833	3838	3846	rVB8	29407	44455	1.62%	0.174%
82	13.488	3848	3856	3862	rBV3	40156	65735	2.40%	0.257%
83	13.768	3937	3943	3952	rVB10	36302	52696	1.92%	0.206%
84	13.839	3958	3965	3969	rBV8	36596	56790	2.07%	0.222%
85	13.932	3986	3994	4002	rBV8	45595	89689	3.27%	0.350%
86	14.122	4046	4053	4060	rBV7	60132	96688	3.52%	0.378%
87	14.328	4106	4117	4128	rVB8	84083	170638	6.22%	0.667%
88	14.582	4193	4196	4210	rVB8	23280	43407	1.58%	0.170%
89	14.842	4270	4277	4292	rBV4	123347	237373	8.65%	0.928%
90	14.990	4318	4323	4334	rBV6	29847	48808	1.78%	0.191%
91	15.565	4497	4502	4509	rBV2	49203	63774	2.32%	0.249%
92	15.646	4520	4527	4534	rBV6	47329	79960	2.91%	0.312%
93	15.787	4563	4571	4579	rBV9	56416	109371	3.99%	0.427%
94	15.900	4597	4606	4617	rVB3	102331	190779	6.95%	0.745%
95	16.041	4642	4650	4657	rBV4	127619	203712	7.42%	0.796%
96	16.517	4792	4798	4811	rVB6	47206	81827	2.98%	0.320%
97	16.752	4865	4871	4882	rVB3	36119	57040	2.08%	0.223%
98	16.951	4928	4933	4940	rVB2	49294	63862	2.33%	0.250%
99	17.000	4943	4948	4956	rVB4	52622	72861	2.66%	0.285%
100	17.147	4989	4994	5004	rVB2	55019	81339	2.96%	0.318%

Sum of corrected areas: 25592286

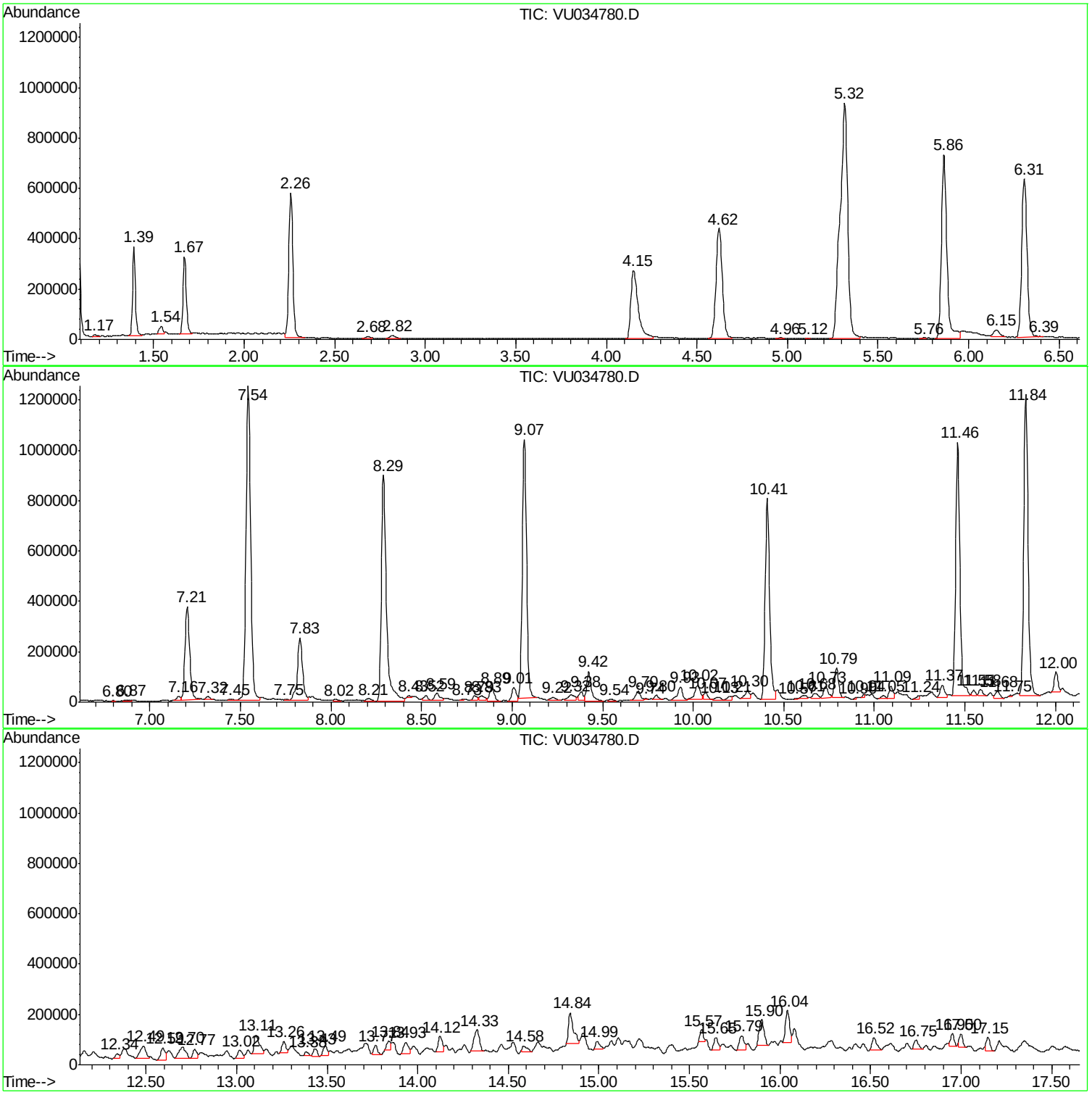
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034780.D
Acq On : 24 Sep 2019 18:46
Operator : JC/SP
Sample : K4932-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : VHBLK01

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.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\VU092419\
Data File : VU034780.D
Acq On : 24 Sep 2019 18:46
Operator : JC/SP
Sample : K4932-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : VHBLK01

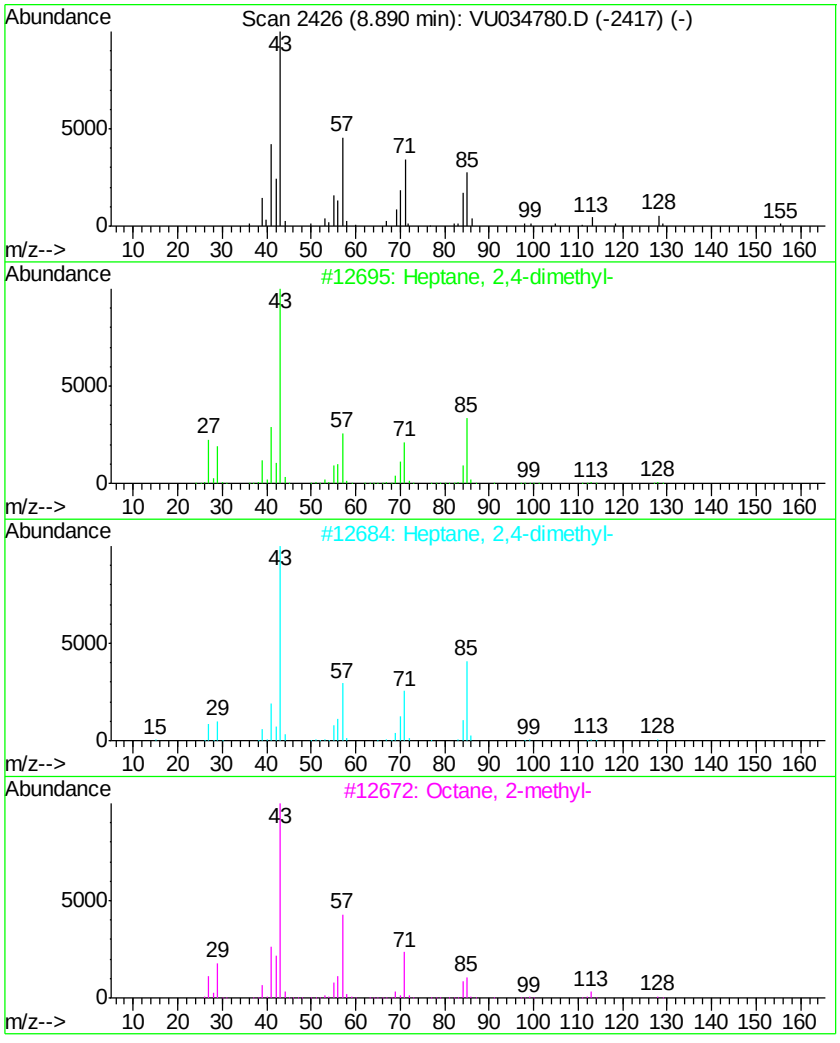
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

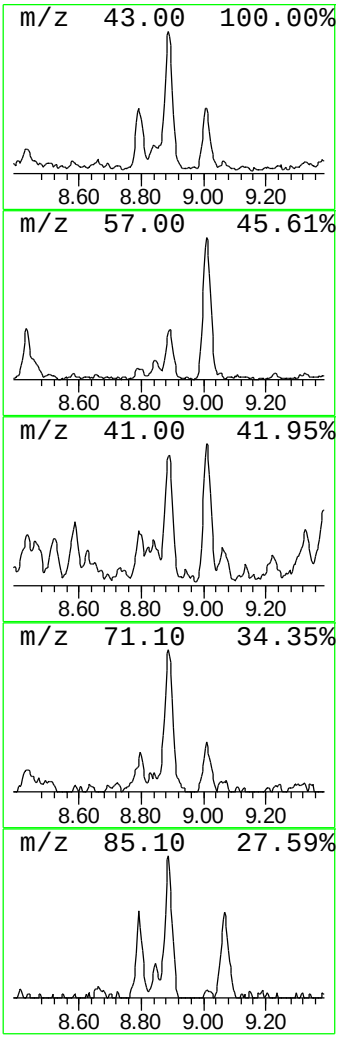
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.89	2.80 ug/L	94872	Chlorobenzene-d5	9.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	72
2	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	64
3	Octane, 2-methyl-	128	C9H20	003221-61-2	64
4	Ether, hexyl pentyl	172	C11H24O	032357-83-8	59
5	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	59





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034780.D
Acq On : 24 Sep 2019 18:46
Operator : JC/SP
Sample : K4932-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : VHBLK01

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

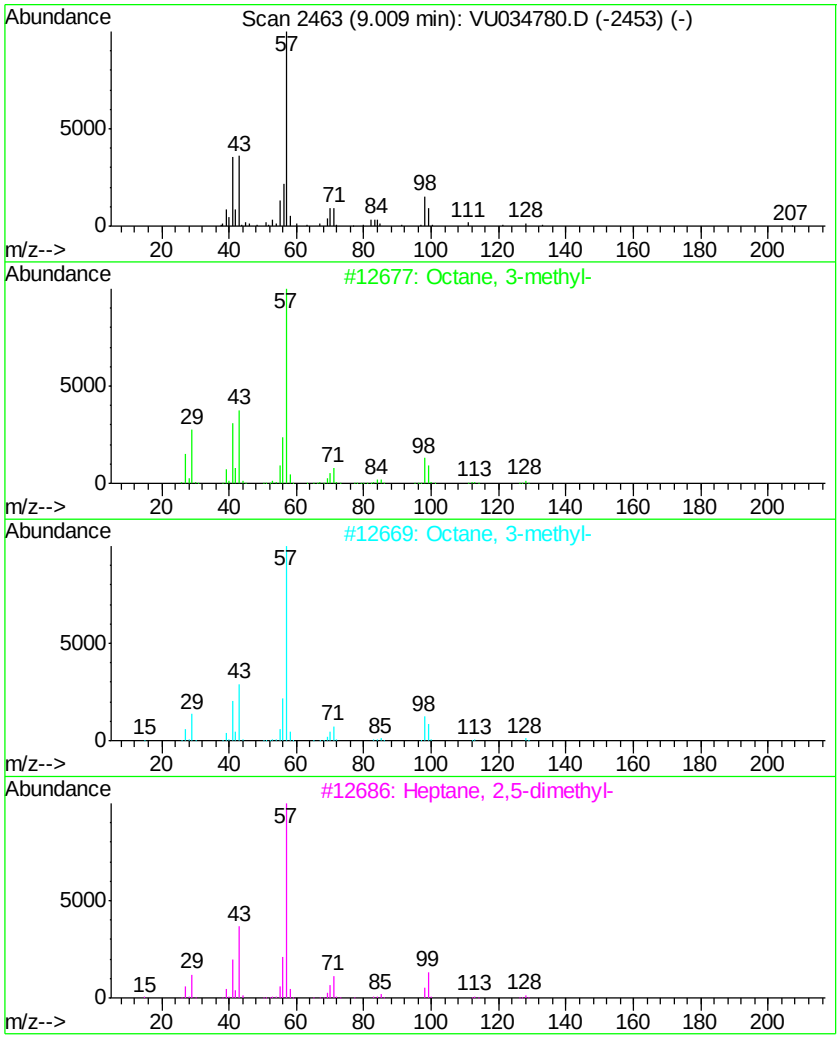
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

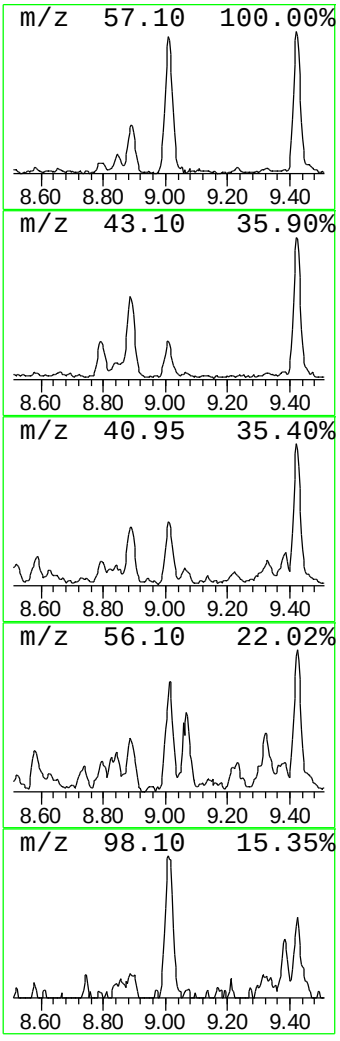
****

Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.01	2.59 ug/L	87903	Chlorobenzene-d5	9.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 3-methyl-	128	C9H20	002216-33-3	91
2	Octane, 3-methyl-	128	C9H20	002216-33-3	90
3	Heptane, 2,5-dimethyl-	128	C9H20	002216-30-0	72
4	Octane, 3-methyl-	128	C9H20	002216-33-3	72
5	Heptane, 2,5-dimethyl-	128	C9H20	002216-30-0	62





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092419\
Data File : VU034780.D
Acq On : 24 Sep 2019 18:46
Operator : JC/SP
Sample : K4932-09
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : VHBLK01

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

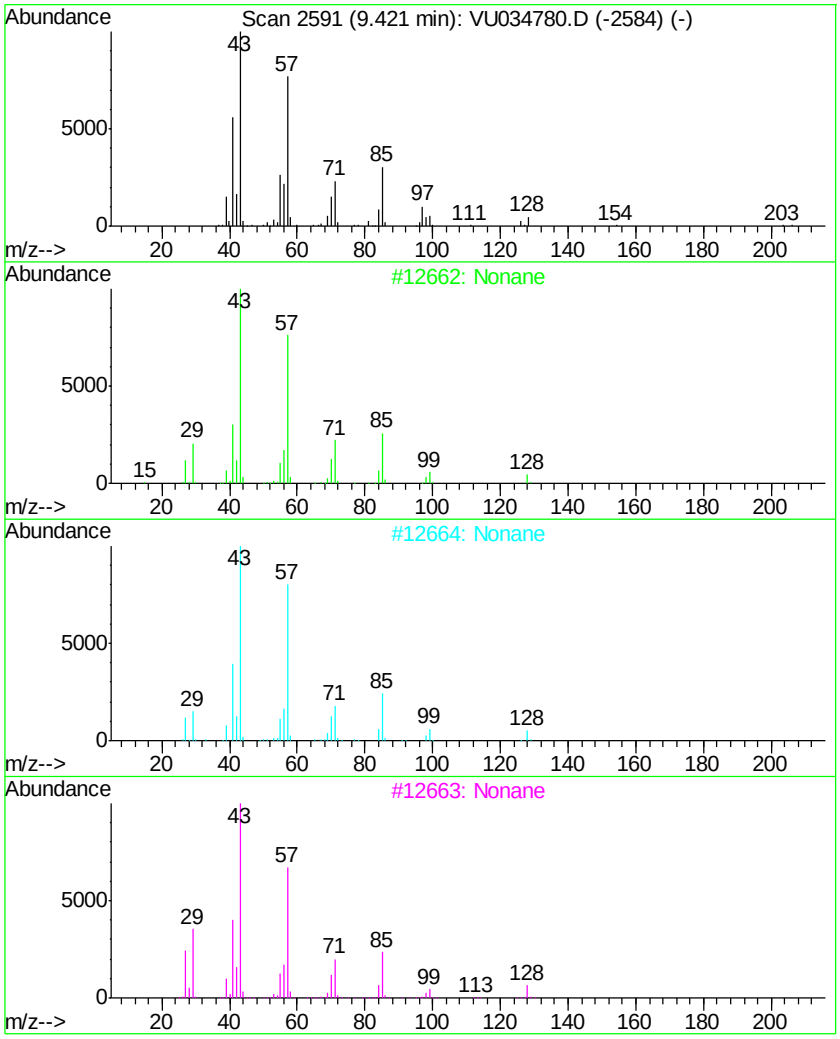
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

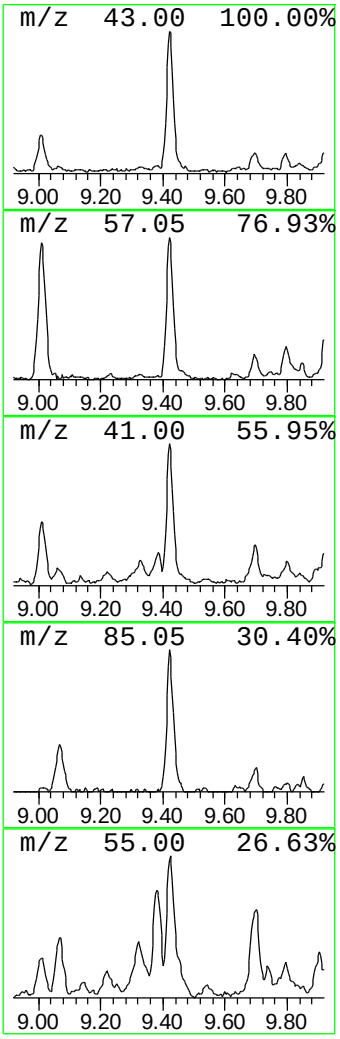
****

Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.42	6.09 ug/L	206533	Chlorobenzene-d5	9.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonane	128	C9H20	000111-84-2	95
2	Nonane	128	C9H20	000111-84-2	93
3	Nonane	128	C9H20	000111-84-2	80
4	1-Octanol, 2-butyl-	186	C12H26O	003913-02-8	72
5	Decane	142	C10H22	000124-18-5	64





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034780.D
Acq On : 24 Sep 2019 18:46
Operator : JC/SP
Sample : K4932-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : VHBLK01

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

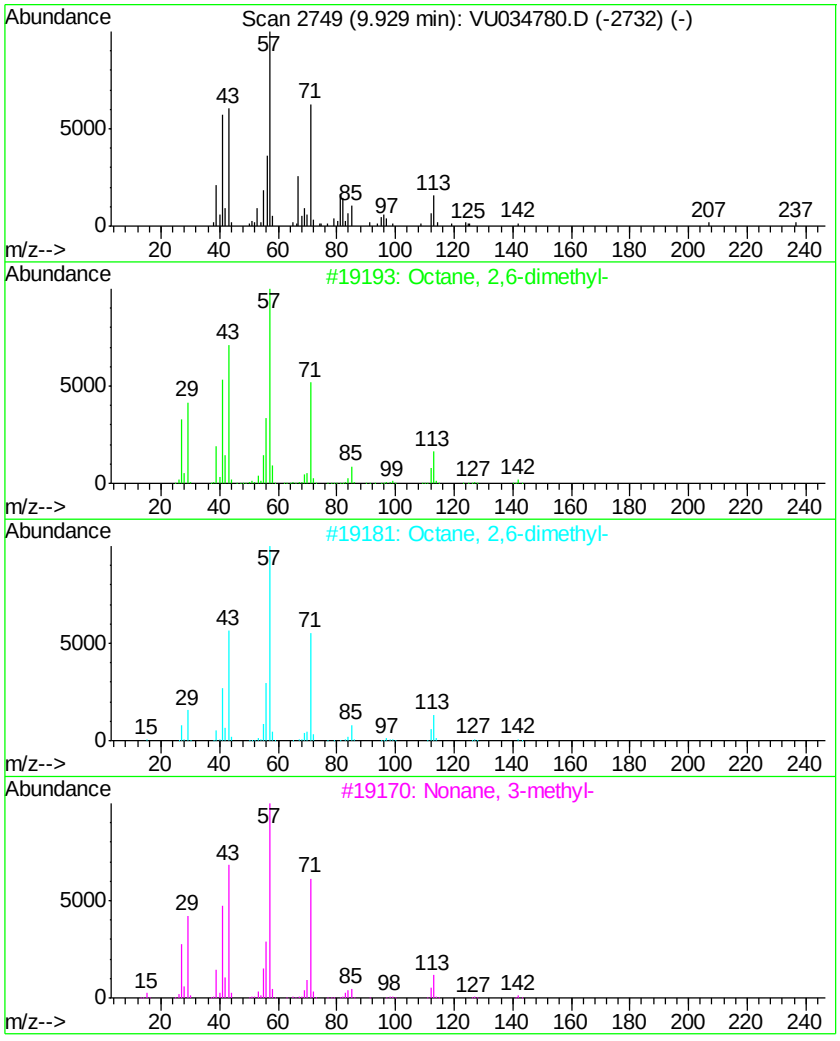
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

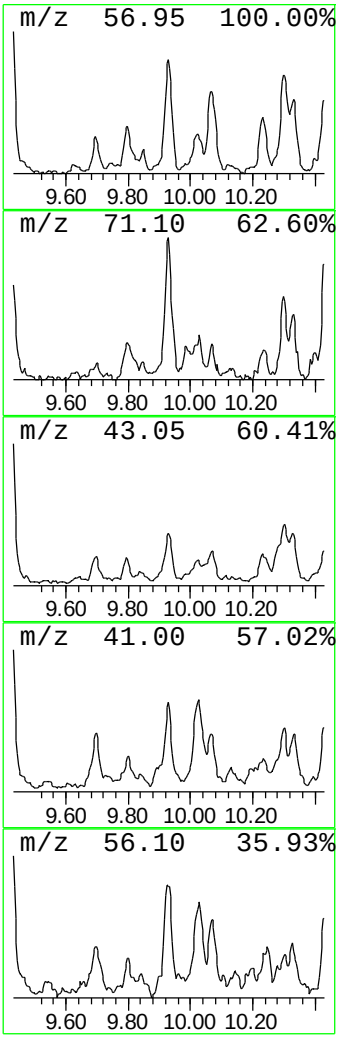
****

Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.93	3.07 ug/L	104169	Chlorobenzene-d5	9.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	81
2	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	81
3	Nonane, 3-methyl-	142	C10H22	005911-04-6	76
4	Nonane, 3-methyl-	142	C10H22	005911-04-6	76
5	Octane, 3,6-dimethyl-	142	C10H22	015869-94-0	72





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034780.D
Acq On : 24 Sep 2019 18:46
Operator : JC/SP
Sample : K4932-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : VHBLK01

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

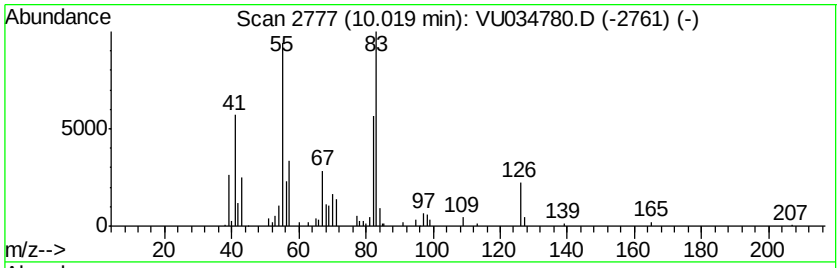
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

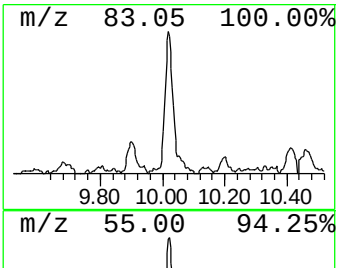
****

Peak Number 6 (DEL) Alkane: Cyclic10.02 Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.02	3.50 ug/L	118649	Chlorobenzene-d5	9.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, propyl-	126	C9H18	001678-92-8	83
2	Cyclohexane, propyl-	126	C9H18	001678-92-8	80
3	Cyclohexane, propyl-	126	C9H18	001678-92-8	80
4	Cyclohexane, propyl-	126	C9H18	001678-92-8	80
5	Cyclohexane, hexyl-	168	C12H24	004292-75-5	64





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Data File : VU034780.D
Acq On : 24 Sep 2019 18:46
Operator : JC/SP
Sample : K4932-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : VHBLK01

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

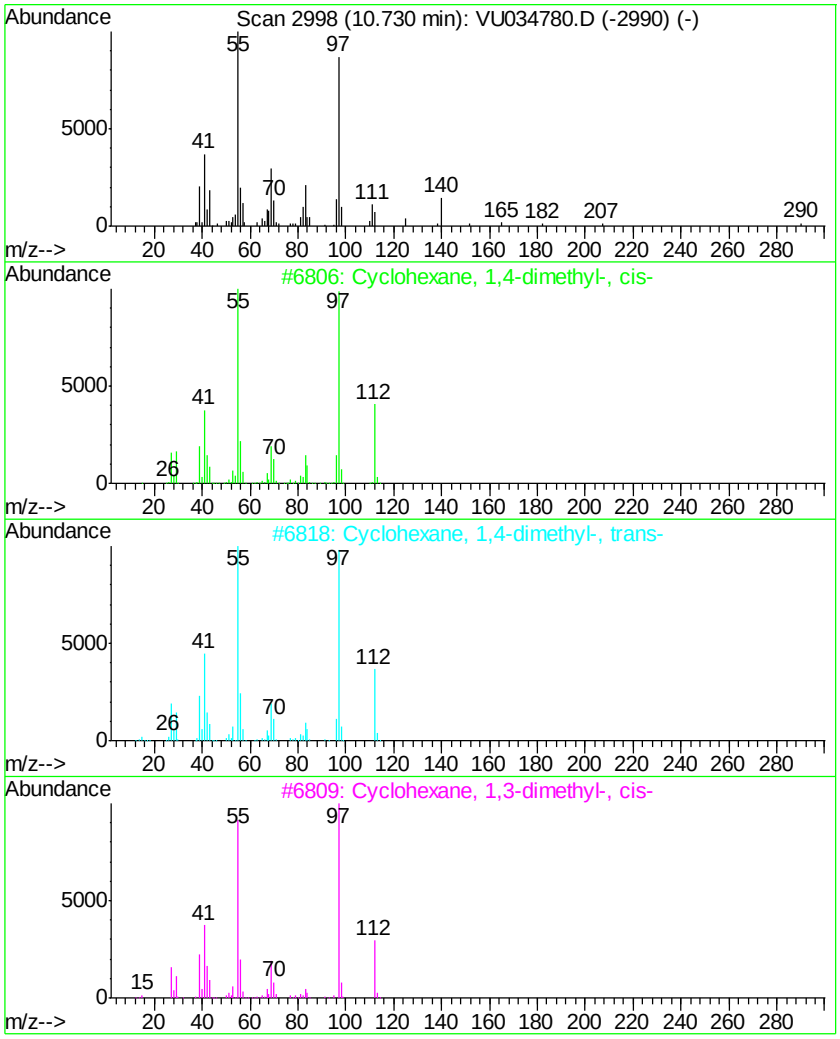
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

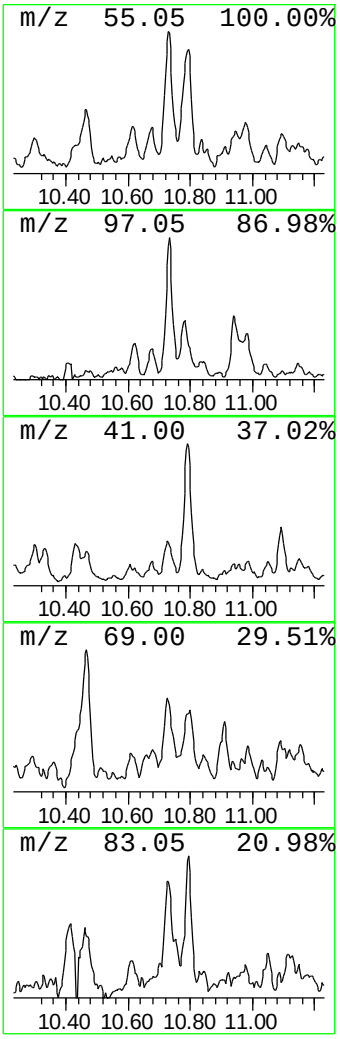
****

Peak Number 7 (DEL) Alkane: Cyclic10.73 Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.73	2.53 ug/L	83040	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,4-dimethyl-, cis-	112	C8H16	000624-29-3	74
2	Cyclohexane, 1,4-dimethyl-, trans-	112	C8H16	002207-04-7	68
3	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	58
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	58
5	Cyclohexane, 1,3-dimethyl-	112	C8H16	000591-21-9	58





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Acq On : 24 Sep 2019 18:46
Operator : JC/SP
Sample : K4932-09
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : VHBLK01

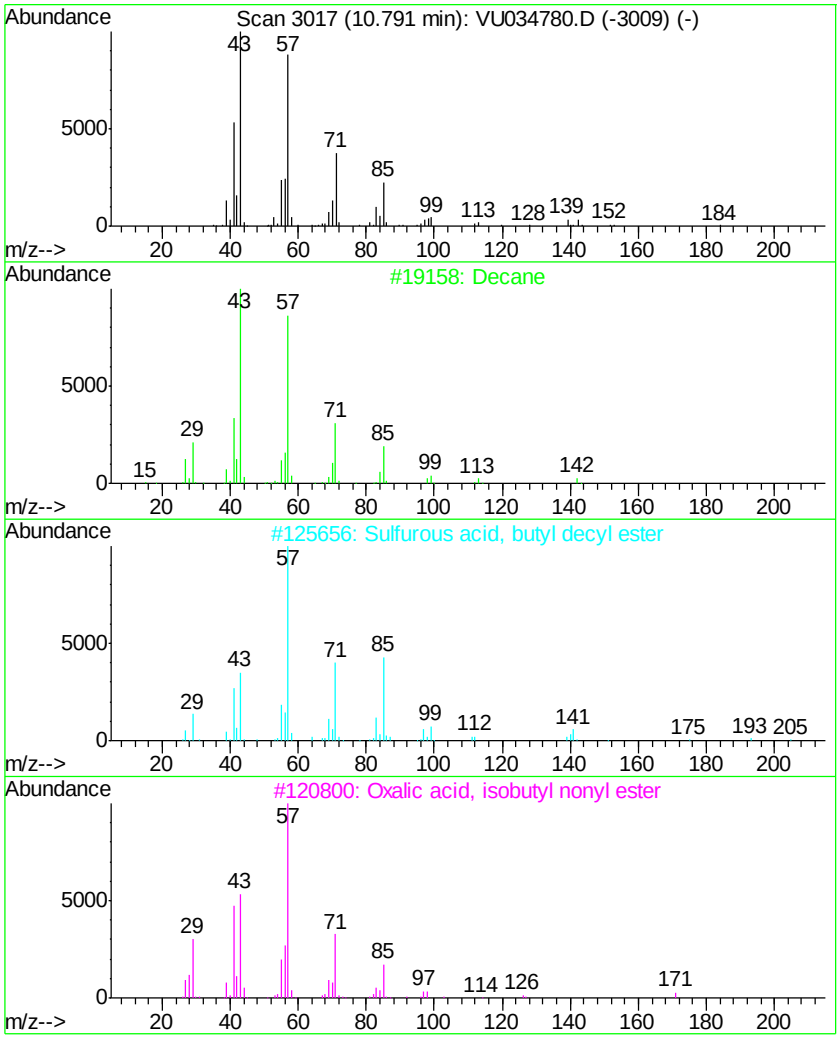
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

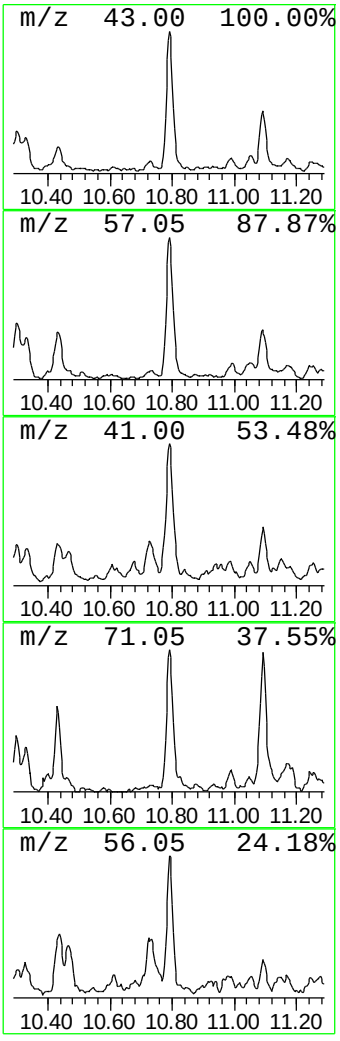
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 8 (DEL) Alkane: Straight-Chai... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.79	5.58 ug/L	183531	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane	142	C10H22	000124-18-5	70
2	Sulfurous acid, butyl decyl ester	278	C14H30O3S	1000309-17-7	64
3	Oxalic acid, isobutyl nonyl ester	272	C15H28O4	1000309-37-4	59
4	Octane, 4-ethyl-	142	C10H22	015869-86-0	58
5	Undecane, 2,3-dimethyl-	184	C13H28	017312-77-5	53





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Acq On : 24 Sep 2019 18:46
Operator : JC/SP
Sample : K4932-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : VHBLK01

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

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

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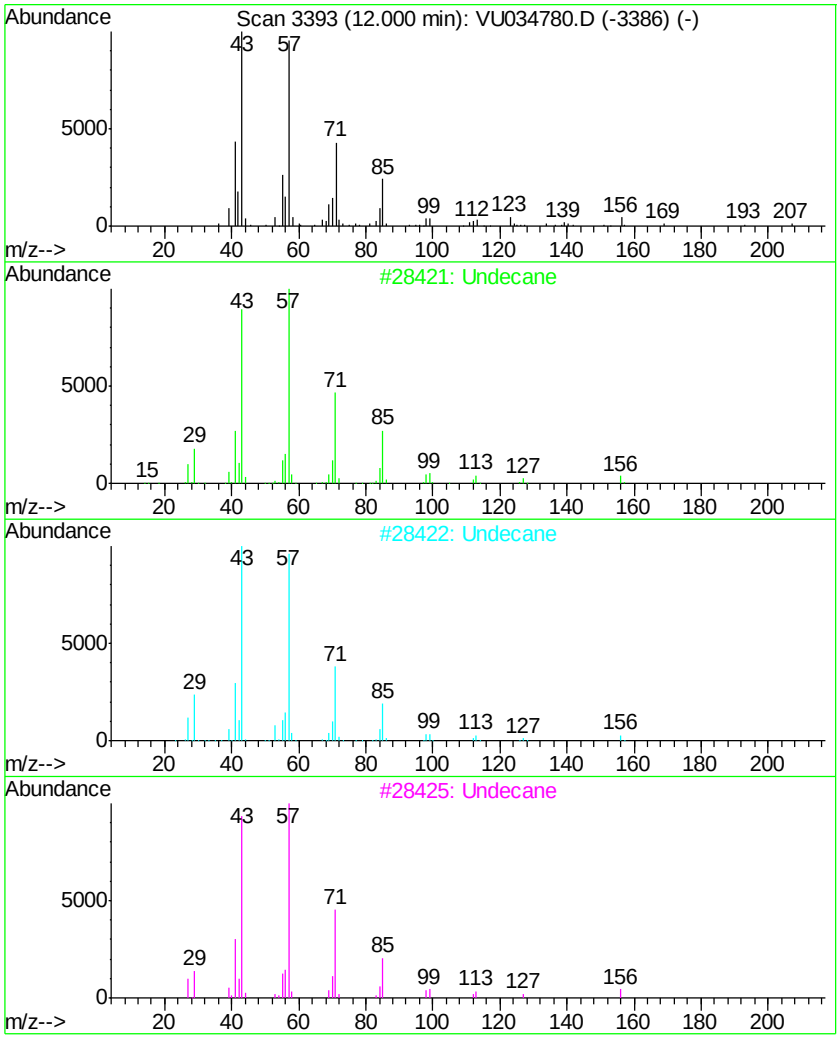
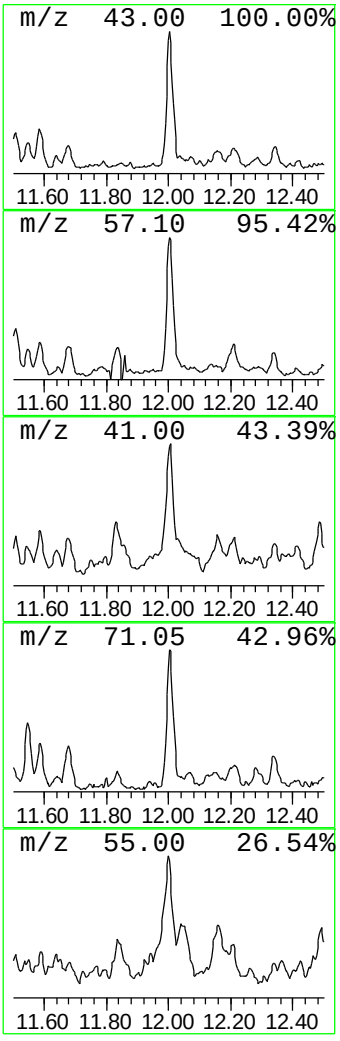
Peak Number 9 (DEL) Alkane: Straight-Chai... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.00	3.50 ug/L	115009	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane	156	C11H24	001120-21-4	93
2	Undecane	156	C11H24	001120-21-4	87
3	Undecane	156	C11H24	001120-21-4	81
4	Dodecane	170	C12H26	000112-40-3	80
5	Decane	142	C10H22	000124-18-5	80





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034780.D
Acq On : 24 Sep 2019 18:46
Operator : JC/SP
Sample : K4932-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : VHBLK01

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

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

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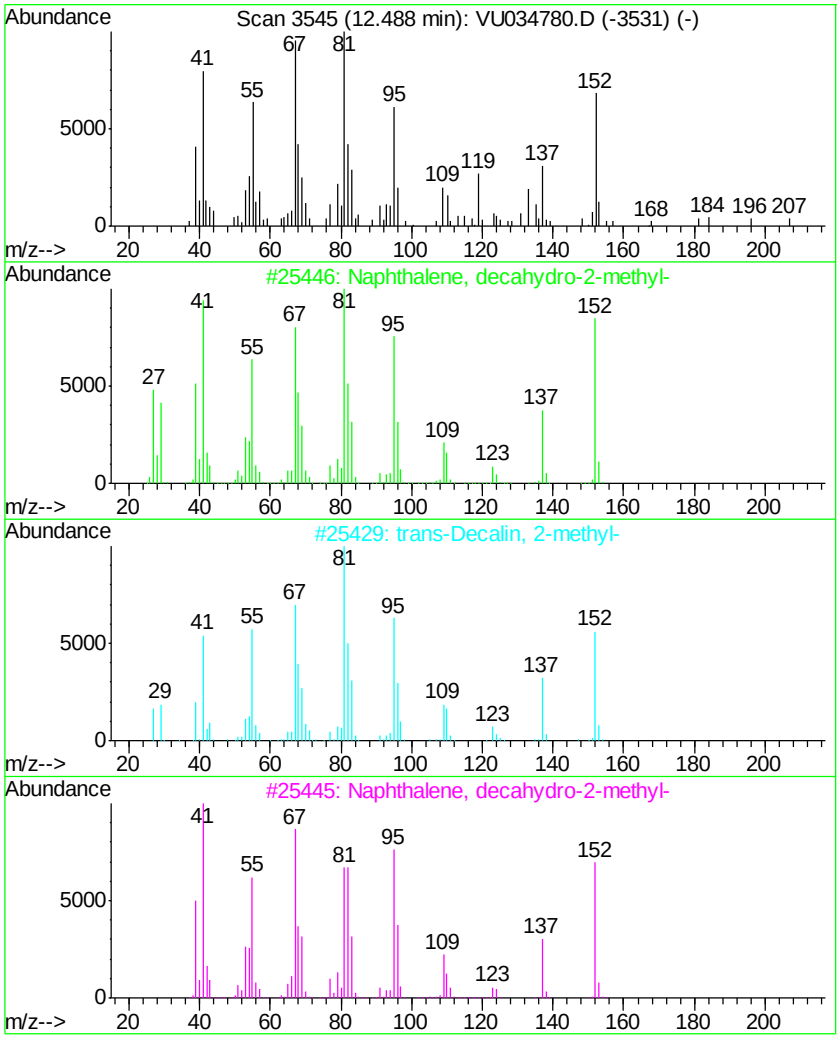
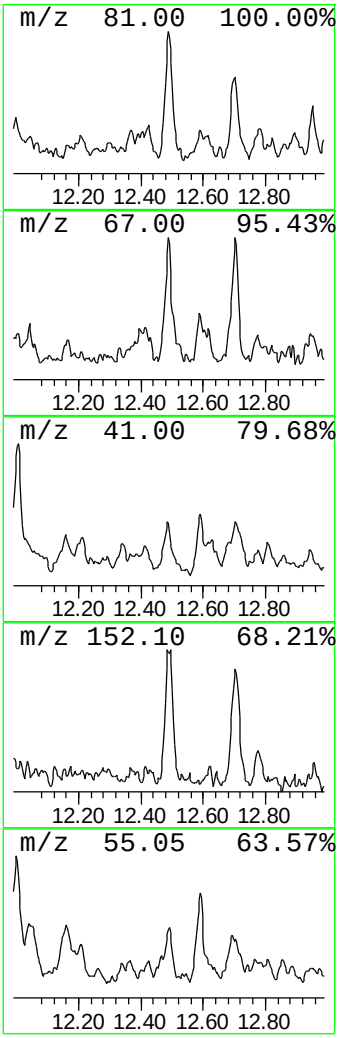
Peak Number 10 Naphthalene, decahydro-2-me... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.49	3.25 ug/L	106796	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, decahydro-2-methyl-	152	C11H20	002958-76-1	99
2	trans-Decalin, 2-methyl-	152	C11H20	1000152-47-3	95
3	Naphthalene, decahydro-2-methyl-	152	C11H20	002958-76-1	90
4	1-Methyldecahydronaphthalene	152	C11H20	002958-75-0	90
5	Cyclohexanone, 5-methyl-2-(1-met...	152	C10H16O	015932-80-6	78





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Data File : VU034780.D
Acq On : 24 Sep 2019 18:46
Operator : JC/SP
Sample : K4932-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : VHBLK01

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

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

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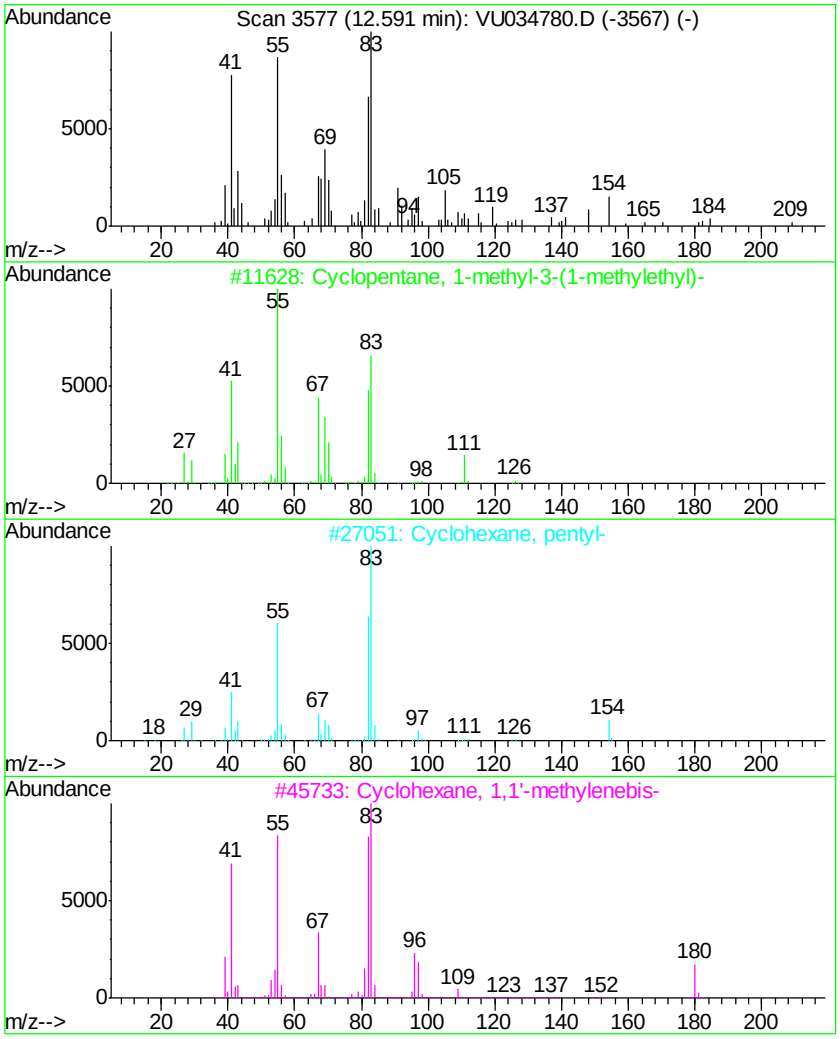
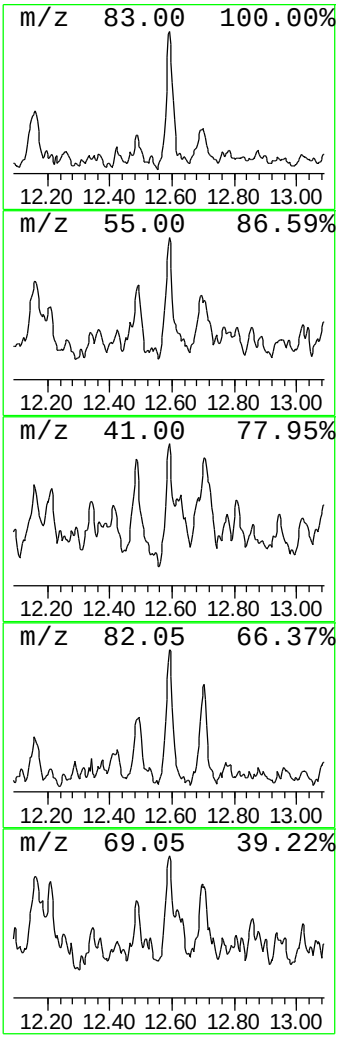
Peak Number 11 (DEL) Alkane: Cyclic12.59 Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.59	2.63 ug/L	86559	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1-methyl-3-(1-meth...	126	C9H18	053771-88-3	58
2	Cyclohexane, pentyl-	154	C11H22	004292-92-6	52
3	Cyclohexane, 1,1'-methylenebis-	180	C13H24	003178-23-2	52
4	Cyclohexane, pentyl-	154	C11H22	004292-92-6	52
5	Cyclohexane, pentyl-	154	C11H22	004292-92-6	52





Library Search Compound Report

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Acq On : 24 Sep 2019 18:46
Operator : JC/SP
Sample : K4932-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : VHBLK01

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

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

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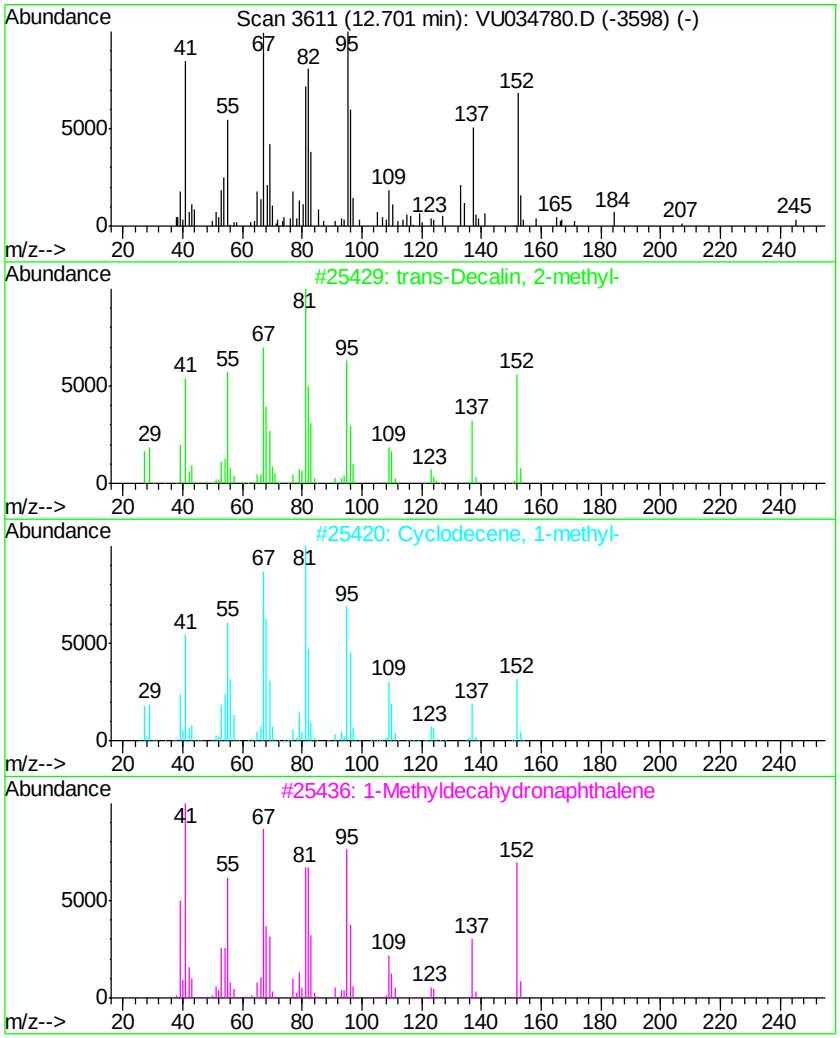
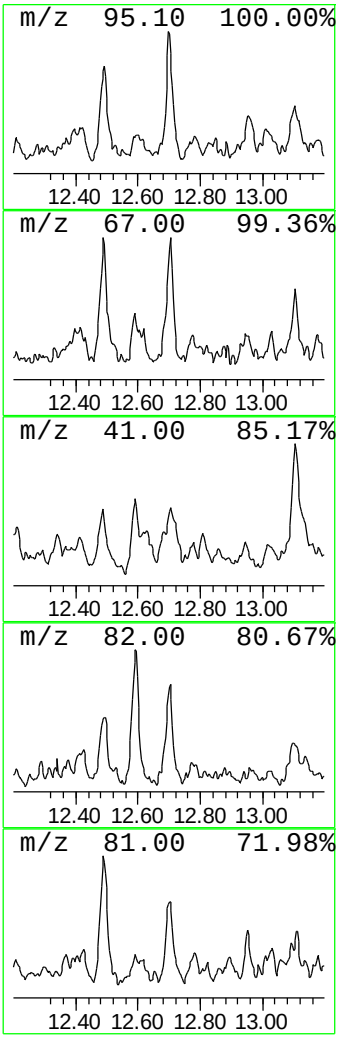
Peak Number 12 trans-Decalin, 2-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.70	3.48 ug/L	114536	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	trans-Decalin, 2-methyl-	152	C11H20	1000152-47-3	86
2	Cyclodecene, 1-methyl-	152	C11H20	066633-38-3	80
3	1-Methyldecahydronaphthalene	152	C11H20	002958-75-0	74
4	trans-4a-Methyl-decahydronaphtha...	152	C11H20	002547-27-5	64
5	Decalin, syn-1-methyl-, cis-	152	C11H20	1000158-89-1	58





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Data File : VU034780.D
Acq On : 24 Sep 2019 18:46
Operator : JC/SP
Sample : K4932-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : VHBLK01

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

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

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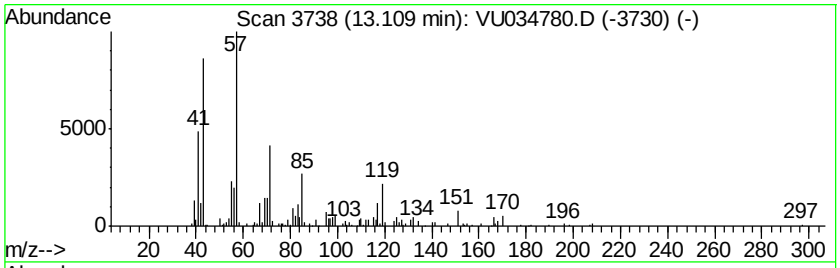
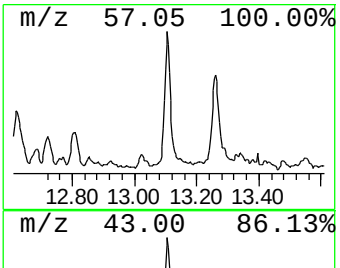
Peak Number 13 (DEL) Alkane: Straight-Chai... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.11	4.56 ug/L	149955	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane	170	C12H26	000112-40-3	91
2	Tetradecane	198	C14H30	000629-59-4	70
3	Dodecane	170	C12H26	000112-40-3	70
4	Dodecane, 2,5-dimethyl-	198	C14H30	056292-65-0	64
5	Tetradecane	198	C14H30	000629-59-4	64





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Acq On : 24 Sep 2019 18:46
Operator : JC/SP
Sample : K4932-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : VHBLK01

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

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

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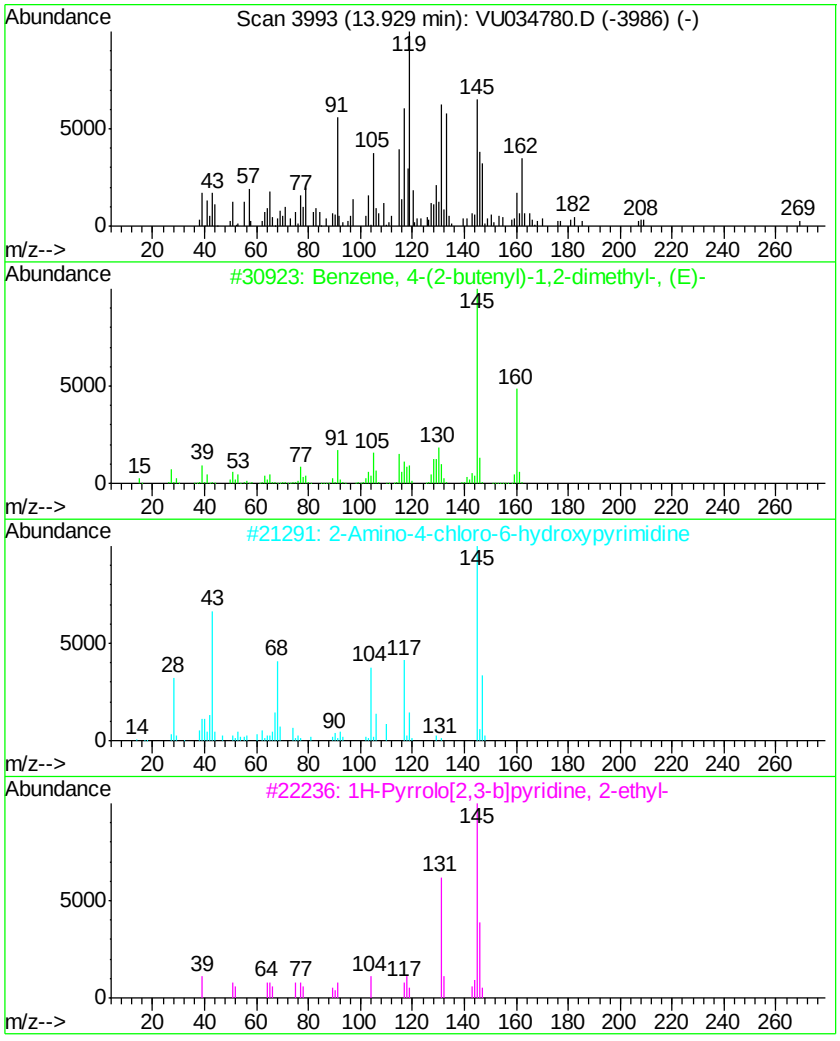
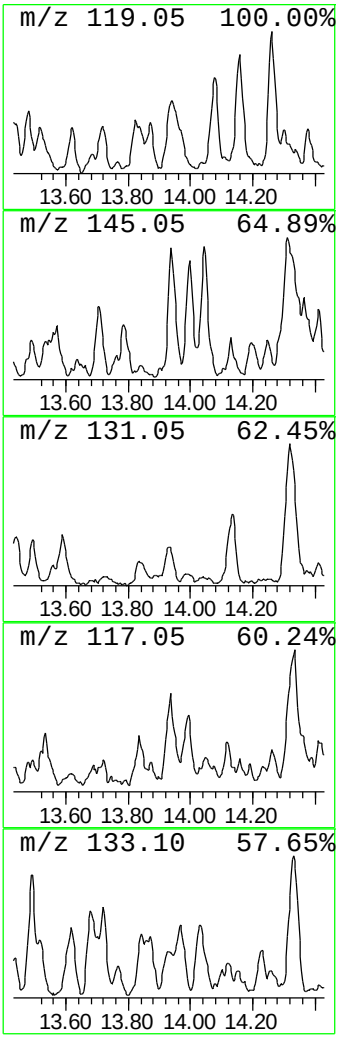
Peak Number 14 unknown-01 Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.93	2.73 ug/L	89689	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 4-(2-butenyl)-1,2-dimet...	160	C12H16	054340-86-2	30
2	2-Amino-4-chloro-6-hydroxypyrimi...	145	C4H4ClN3O	001194-21-4	25
3	1H-Pyrrolo[2,3-b]pyridine, 2-ethyl-	146	C9H10N2	023612-49-9	25
4	Benzene, 1-(1,1-dimethylethyl)-4...	160	C12H16	001746-23-2	25
5	2-Naphthalenamine, 5,6,7,8-tetra...	147	C10H13N	002217-43-8	22





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Acq On : 24 Sep 2019 18:46
Operator : JC/SP
Sample : K4932-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : VHBLK01

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

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

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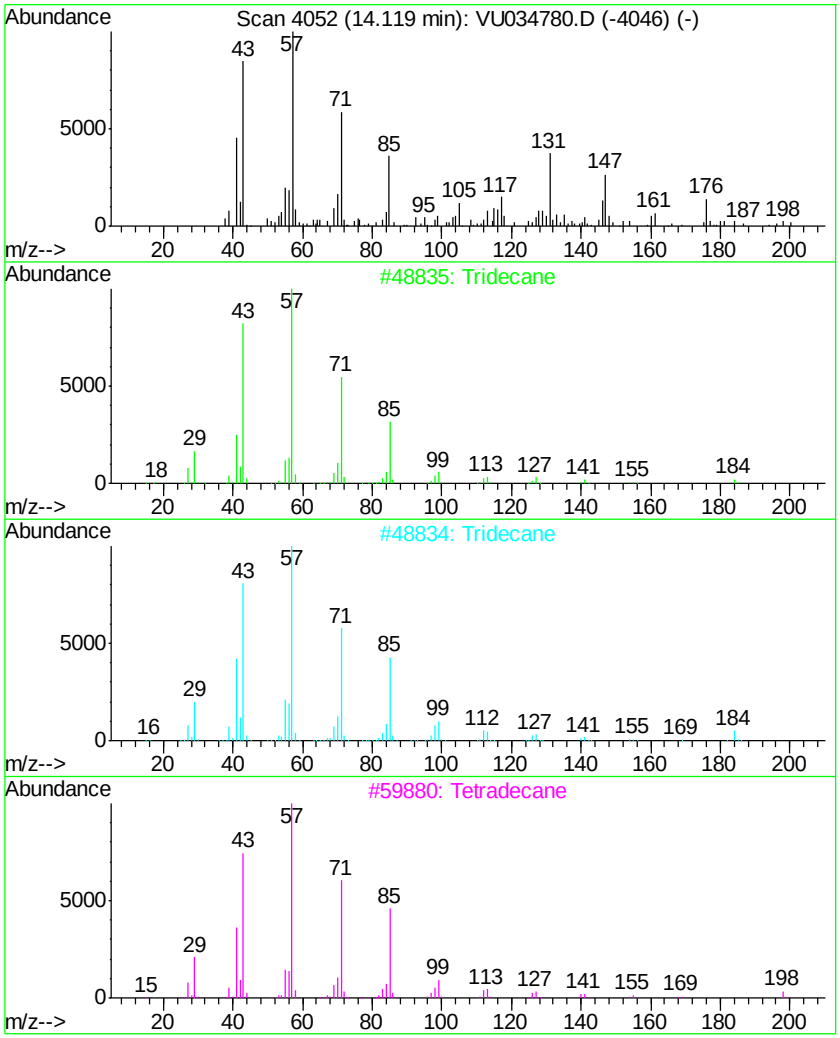
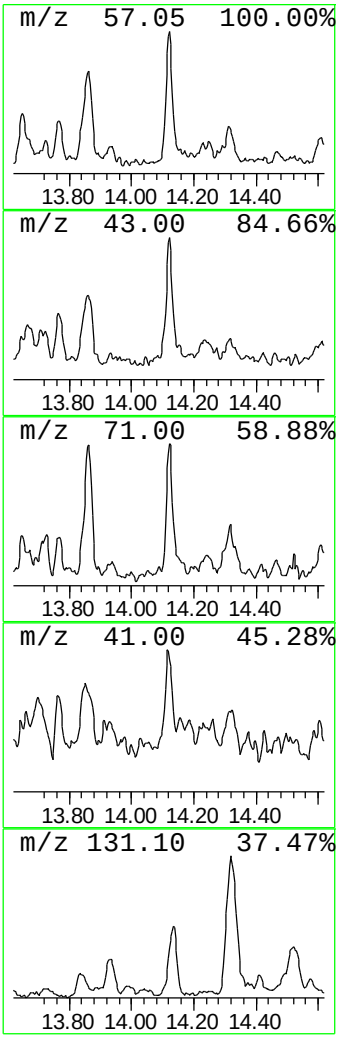
Peak Number 15 (DEL) Alkane: Straight-Chai... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.12	2.94 ug/L	96688	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tridecane	184	C13H28	000629-50-5	38
2	Tridecane	184	C13H28	000629-50-5	30
3	Tetradecane	198	C14H30	000629-59-4	30
4	Tridecane	184	C13H28	000629-50-5	30
5	Octane, 2-methyl-	128	C9H20	003221-61-2	25





Library Search Compound Report

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Data File : VU034780.D
Acq On : 24 Sep 2019 18:46
Operator : JC/SP
Sample : K4932-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : VHBLK01

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

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

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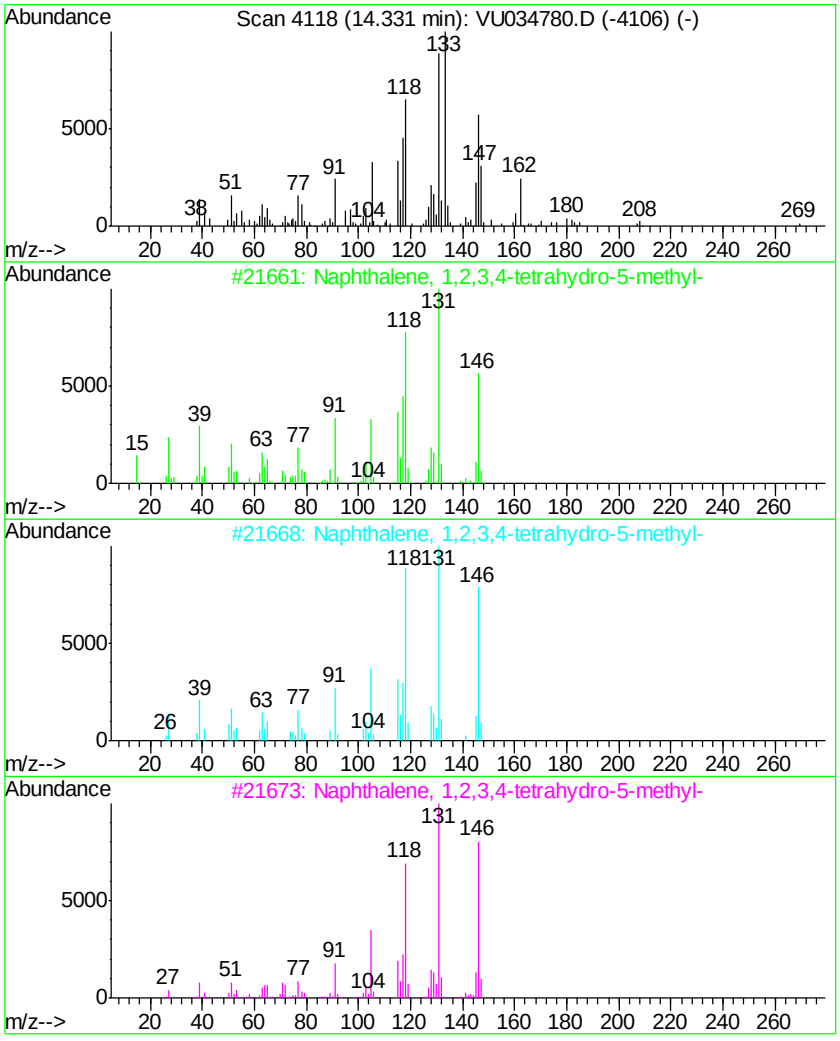
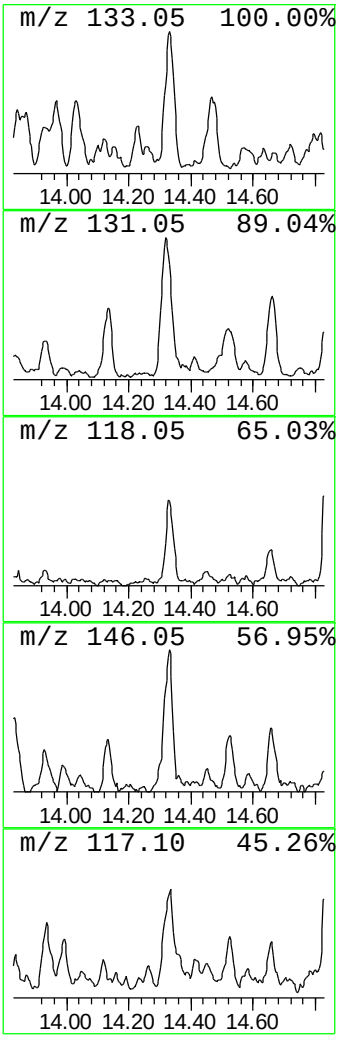
Peak Number 16 Naphthalene, 1,2,3,4-tetrah... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.33	5.19 ug/L	170638	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	002809-64-5	91
2	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	002809-64-5	55
3	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	002809-64-5	49
4	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	001680-51-9	46
5	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	001680-51-9	45





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Operator : JC/SP
Sample : K4932-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : VHBLK01

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

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

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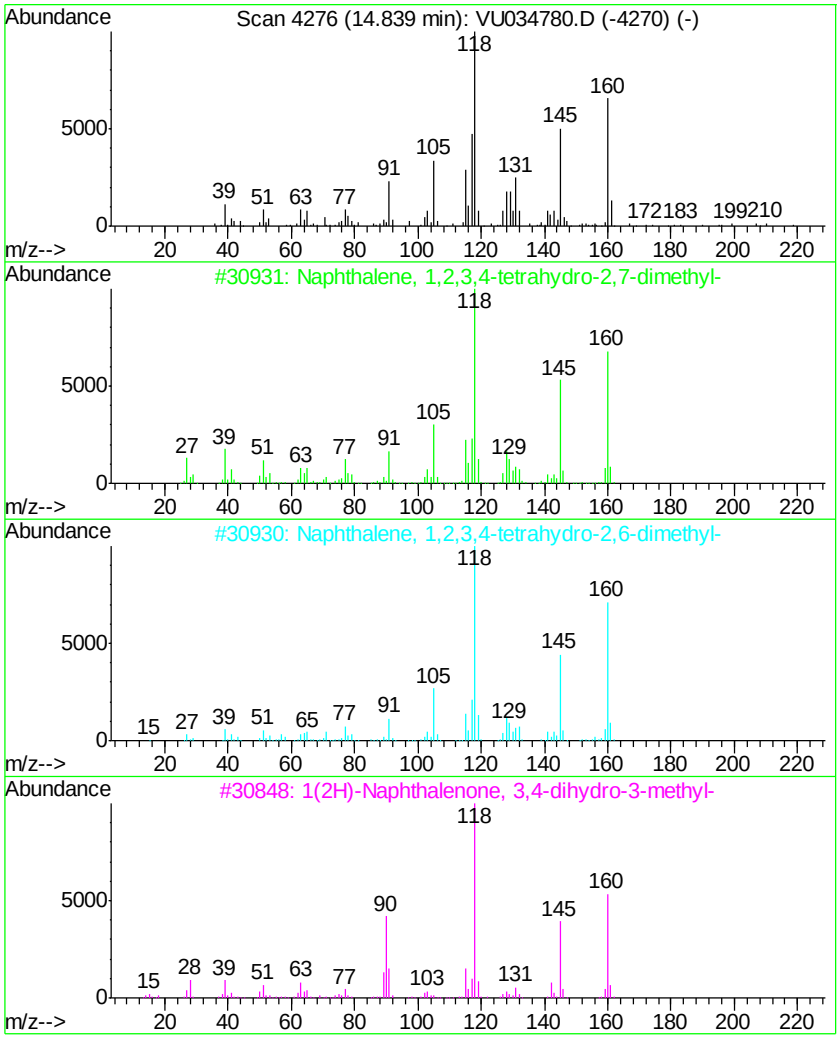
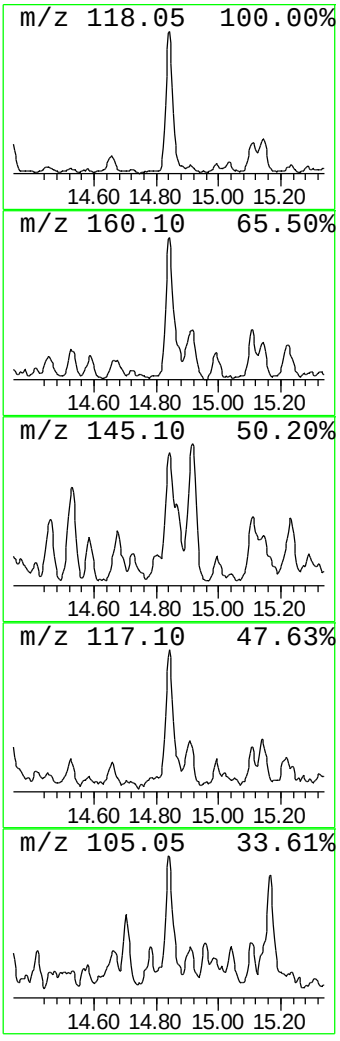
Peak Number 17 Naphthalene, 1,2,3,4-tetrah... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.84	7.22 ug/L	237373	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetrahydro-...	160	C12H16	013065-07-1	90
2	Naphthalene, 1,2,3,4-tetrahydro-...	160	C12H16	007524-63-2	68
3	1(2H)-Naphthalenone, 3,4-dihydro...	160	C11H12O	014944-23-1	58
4	1(2H)-Naphthalenone, 3,4-dihydro...	160	C11H12O	001590-08-5	52
5	Naphthalene, 1,2,3,4-tetrahydro-...	160	C12H16	007524-63-2	52





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034780.D
Acq On : 24 Sep 2019 18:46
Operator : JC/SP
Sample : K4932-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : VHBLK01

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

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

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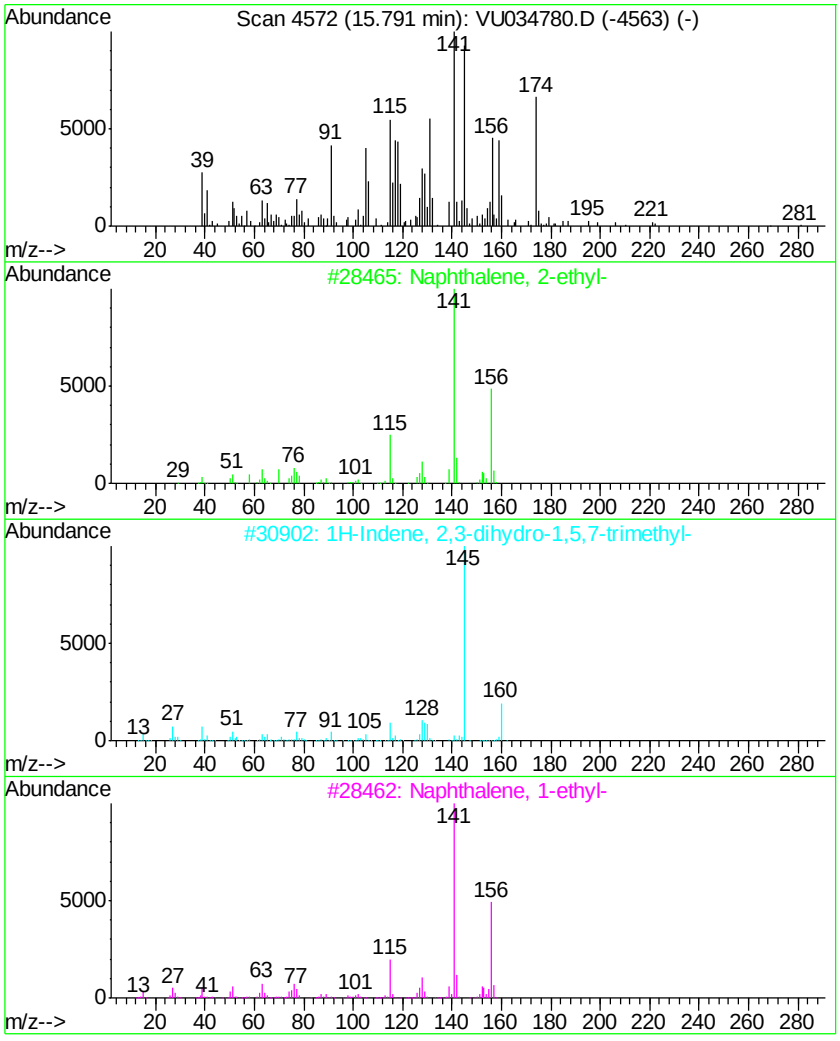
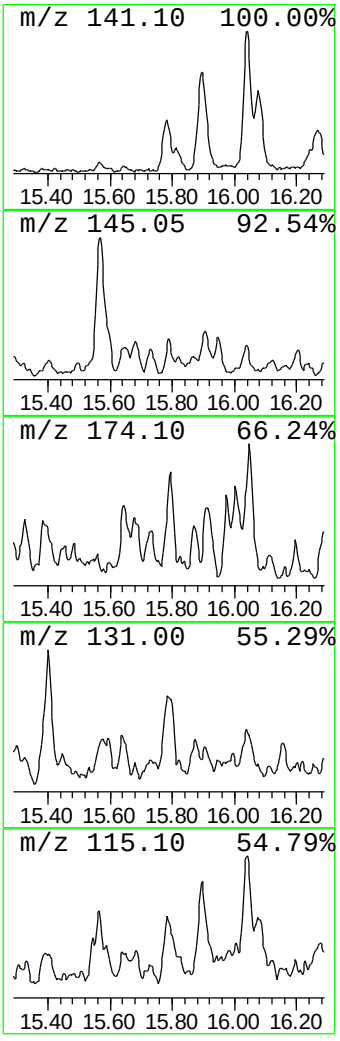
Peak Number 18 unknown-02 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.79	3.33 ug/L	109371	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-ethyl-	156	C12H12	000939-27-5	38
2	1H-Indene, 2,3-dihydro-1,5,7-tri...	160	C12H16	054340-88-4	30
3	Naphthalene, 1-ethyl-	156	C12H12	001127-76-0	25
4	Naphthalene, 1-ethyl-	156	C12H12	001127-76-0	22
5	Naphthalene, 2-ethyl-	156	C12H12	000939-27-5	18





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034780.D
Acq On : 24 Sep 2019 18:46
Operator : JC/SP
Sample : K4932-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : VHBLK01

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

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

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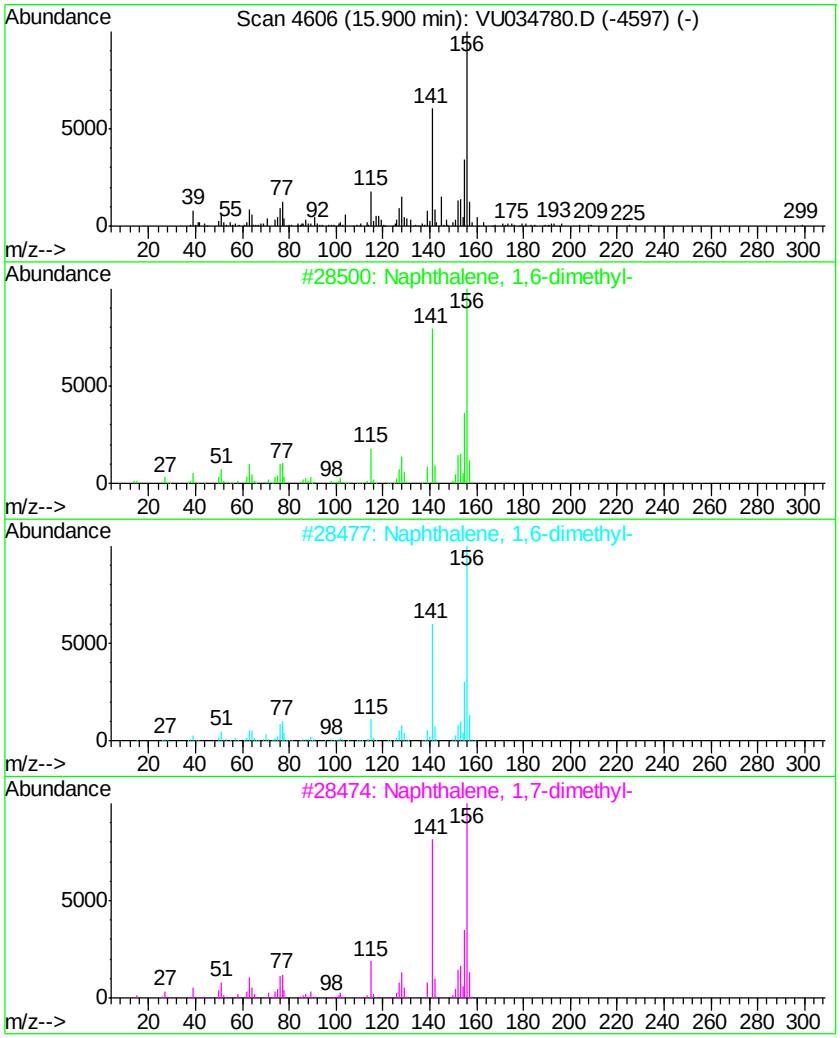
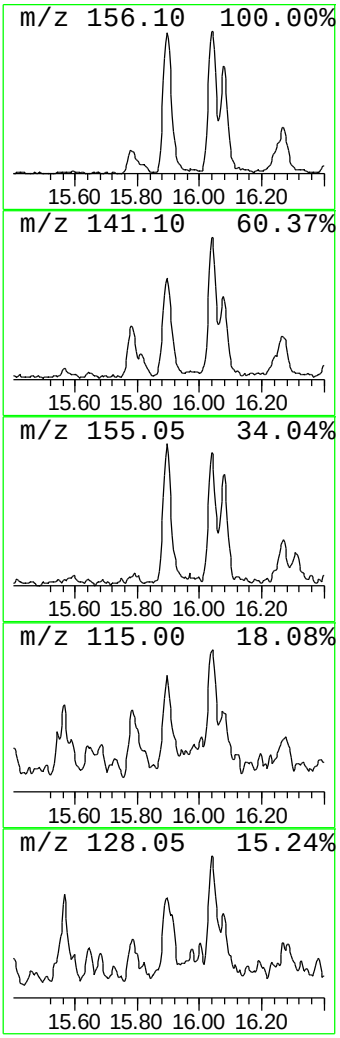
Peak Number 19 Naphthalene, 1,6-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.90	5.80 ug/L	190779	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
2	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96
3	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	96
4	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	96
5	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	96





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034780.D
Acq On : 24 Sep 2019 18:46
Operator : JC/SP
Sample : K4932-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : VHBLK01

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

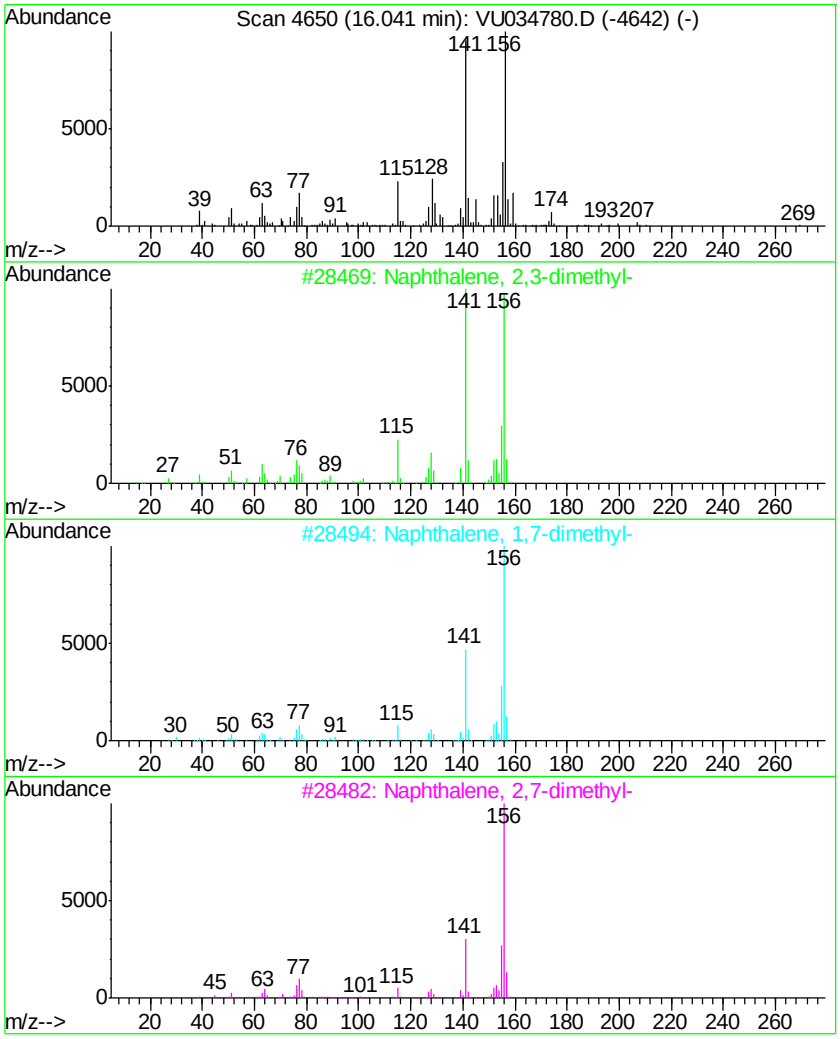
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

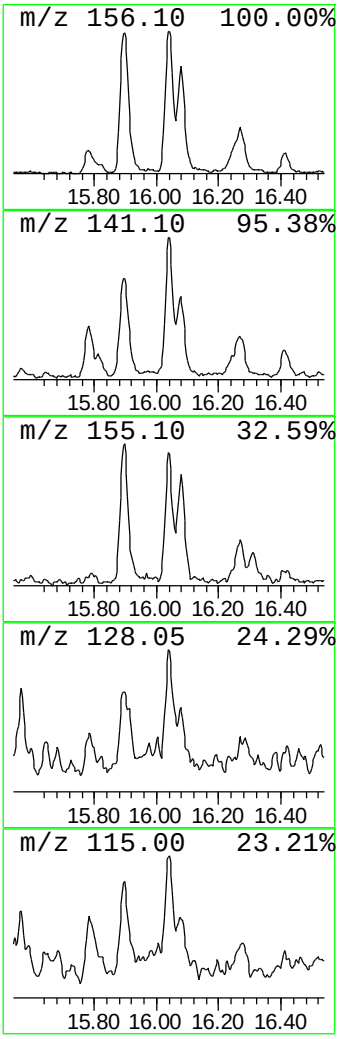
****

Peak Number 20 Naphthalene, 2,3-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.04	6.20 ug/L	203712	1,4-Dichlorobenzene-d4	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	96
2	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	96
3	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	95
4	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	95
5	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	95





Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034780.D
Acq On : 24 Sep 2019 18:46
Operator : JC/SP
Sample : K4932-09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : VHBLK01

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.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: Str...	8.89	2.8	ug/L	94872	2	9.07	1694960	50.0
(DEL) Alkane: Str...	9.01	2.6	ug/L	87903	2	9.07	1694960	50.0
(DEL) Alkane: Str...	9.42	6.1	ug/L	206533	2	9.07	1694960	50.0
(DEL) Alkane: Str...	9.93	3.1	ug/L	104169	2	9.07	1694960	50.0
(DEL) Alkane: Cyc...	10.02	3.5	ug/L	118649	2	9.07	1694960	50.0
(DEL) Alkane: Cyc...	10.73	2.5	ug/L	83040	3	11.46	1643390	50.0
(DEL) Alkane: Str...	10.79	5.6	ug/L	183531	3	11.46	1643390	50.0
(DEL) Alkane: Str...	12.00	3.5	ug/L	115009	3	11.46	1643390	50.0
Naphthalene, deca...	12.49	3.3	ug/L	106796	3	11.46	1643390	50.0
(DEL) Alkane: Cyc...	12.59	2.6	ug/L	86559	3	11.46	1643390	50.0
trans-Decalin, 2-...	12.70	3.5	ug/L	114536	3	11.46	1643390	50.0
(DEL) Alkane: Str...	13.11	4.6	ug/L	149955	3	11.46	1643390	50.0
unknown-01	13.93	2.7	ug/L	89689	3	11.46	1643390	50.0
(DEL) Alkane: Str...	14.12	2.9	ug/L	96688	3	11.46	1643390	50.0
Naphthalene, 1,2,...	14.33	5.2	ug/L	170638	3	11.46	1643390	50.0
Naphthalene, 1,2,...	14.84	7.2	ug/L	237373	3	11.46	1643390	50.0
unknown-02	15.79	3.3	ug/L	109371	3	11.46	1643390	50.0
Naphthalene, 1,6-...	15.90	5.8	ug/L	190779	3	11.46	1643390	50.0
Naphthalene, 2,3-...	16.04	6.2	ug/L	203712	3	11.46	1643390	50.0