LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD080119\
Data File : VD063294.D
Acq On : 1 Aug 2019 16:01
Operator : VA/AP
Sample : K4120-04
Misc : 5.08g/5ml/MSVOA D/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : T2-1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % 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_D\METHOD\82D072919S.M
Title : SW846 8260

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.473	3	5	26	rVB	2476295	6529094	100.00%	8.484%
2	1.837	37	42	46	rBV	489913	730780	11.19%	0.950%
3	2.349	89	94	107	rBV	1212643	2518056	38.57%	3.272%
4	2.625	118	122	129	rBV2	395098	894001	13.69%	1.162%
5	2.782	134	138	144	rVB3	28875	66893	1.02%	0.087%
6	2.979	153	158	168	rBV	548646	1354529	20.75%	1.760%
7	3.156	172	176	189	rVB4	60554	241354	3.70%	0.314%
8	3.688	223	230	233	rBV2	48796	134491	2.06%	0.175%
9	3.826	233	244	261	rVB3	773357	4156636	63.66%	5.401%
10	4.210	275	283	294	rBV	605901	1984350	30.39%	2.579%
11	4.495	306	312	321	rVB2	28751	100268	1.54%	0.130%
12	4.682	324	331	344	rVB3	58851	205324	3.14%	0.267%
13	5.056	362	369	376	rBV	200742	648336	9.93%	0.842%
14	5.204	379	384	390	rBV3	98051	327671	5.02%	0.426%
15	5.529	409	417	424	rBV	147194	538676	8.25%	0.700%
16	5.696	427	434	436	rVV2	49195	172294	2.64%	0.224%
17	5.785	436	443	450	rVV	1175235	3903866	59.79%	5.073%
18	5.893	450	454	461	rVV2	178555	639317	9.79%	0.831%
19	5.991	461	464	472	rVV3	43290	155904	2.39%	0.203%
20	6.149	475	480	492	rVB2	83279	264982	4.06%	0.344%
21	6.641	519	530	543	rBV3	233967	866028	13.26%	1.125%
22	6.946	547	561	566	rVV2	1272743	5057045	77.45%	6.571%
23	7.035	566	570	588	rVV	1095171	3546891	54.32%	4.609%
24	7.301	588	597	605	rVV4	155866	619913	9.49%	0.806%
25	7.439	605	611	622	rVV	1458402	4179534	64.01%	5.431%
26	7.606	622	628	633	rVV2	540276	1594060	24.41%	2.071%
27	7.694	633	637	642	rVV	337093	1075443	16.47%	1.397%
28	7.793	642	647	661	rVV2	303869	1008509	15.45%	1.310%
29	8.206	682	689	699	rBV	1483481	4311985	66.04%	5.603%
30	8.334	699	702	709	rVV5	30938	97376	1.49%	0.127%
31	8.561	717	725	734	rVV4	121456	503809	7.72%	0.655%
32	8.856	744	755	767	rBV	1340741	4281323	65.57%	5.563%
33	9.142	779	784	794	rVB2	90670	247949	3.80%	0.322%
34	9.299	794	800	804	rBV2	64690	175060	2.68%	0.227%

LSC Area Percent Report

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Operator : VA/AP
Sample : K4120-04
Misc : 5.08g/5ml/MSVOA D/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : T2-1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % 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_D\METHOD\82D072919S.M
Title : SW846 8260

35	9.378	804	808	810	rVV2	78630	182802	2.80%	0.238%
36	9.417	810	812	818	rVB3	111409	247602	3.79%	0.322%
37	9.516	818	822	832	rVB5	70635	251608	3.85%	0.327%
38	9.693	832	840	845	rBV	182900	503239	7.71%	0.654%
39	9.939	857	865	868	rBV4	36536	101858	1.56%	0.132%
40	10.008	868	872	880	rVB6	39636	122488	1.88%	0.159%
41	10.205	884	892	903	rBV	394154	1019105	15.61%	1.324%
42	10.402	903	912	918	rBV	1210045	2844029	43.56%	3.696%
43	10.500	918	922	929	rVB	218132	489946	7.50%	0.637%
44	10.628	929	935	938	rBV3	61392	167326	2.56%	0.217%
45	10.766	945	949	953	rVB3	31956	66331	1.02%	0.086%
46	10.923	959	965	971	rBV	153102	396316	6.07%	0.515%
47	11.110	974	984	988	rVV2	156555	508255	7.78%	0.660%
48	11.219	991	995	1004	rVB2	86404	258534	3.96%	0.336%
49	11.534	1023	1027	1030	rVV	83533	181895	2.79%	0.236%
50	11.583	1030	1032	1035	rVV2	57243	106011	1.62%	0.138%
51	11.642	1035	1038	1040	rVV2	45806	99975	1.53%	0.130%
52	11.672	1040	1041	1045	rVV	50717	87678	1.34%	0.114%
53	11.740	1045	1048	1053	rVB4	33298	78876	1.21%	0.102%
54	11.878	1059	1062	1067	rVB2	34256	78380	1.20%	0.102%
55	11.977	1069	1072	1077	rVB3	55075	98829	1.51%	0.128%
56	12.361	1107	1111	1118	rVV	1946499	3182773	48.75%	4.136%
57	12.459	1118	1121	1124	rVV	156009	282281	4.32%	0.367%
58	12.518	1124	1127	1132	rVV	499022	837488	12.83%	1.088%
59	12.656	1136	1141	1147	rVV	699614	1454239	22.27%	1.890%
60	13.040	1175	1180	1184	rBV	268387	410387	6.29%	0.533%
61	13.394	1211	1216	1220	rVV	659834	945260	14.48%	1.228%
62	13.552	1228	1232	1235	rVV	1005937	1416702	21.70%	1.841%
63	13.601	1235	1237	1242	rVV4	37771	71571	1.10%	0.093%
64	13.709	1245	1248	1251	rVV2	108415	173897	2.66%	0.226%
65	13.768	1251	1254	1257	rVV	240426	303027	4.64%	0.394%
66	13.837	1259	1261	1263	rVV	68131	98582	1.51%	0.128%
67	14.074	1281	1285	1293	rVV	389011	560320	8.58%	0.728%
68	14.349	1308	1313	1317	rBV2	38932	87427	1.34%	0.114%
69	14.507	1326	1329	1332	rVV	1352456	1935371	29.64%	2.515%
70	14.546	1332	1333	1336	rVV	136590	187510	2.87%	0.244%
71	14.704	1346	1349	1353	rVV	1715426	2138877	32.76%	2.779%

LSC Area Percent Report

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ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : T2-1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % 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_D\METHOD\82D072919S.M
Title : SW846 8260

72	15.048	1381	1384	1386	rBV	236757	269614	4.13%	0.350%
73	15.088	1386	1388	1390	rVV	171060	211190	3.23%	0.274%
74	15.137	1390	1393	1396	rVB	526214	791786	12.13%	1.029%
75	15.255	1402	1405	1411	rVV	113695	162258	2.49%	0.211%
76	15.334	1411	1413	1420	rVB	74673	102611	1.57%	0.133%
77	15.668	1444	1447	1450	rBV	269356	310522	4.76%	0.404%

Sum of corrected areas: 76956523

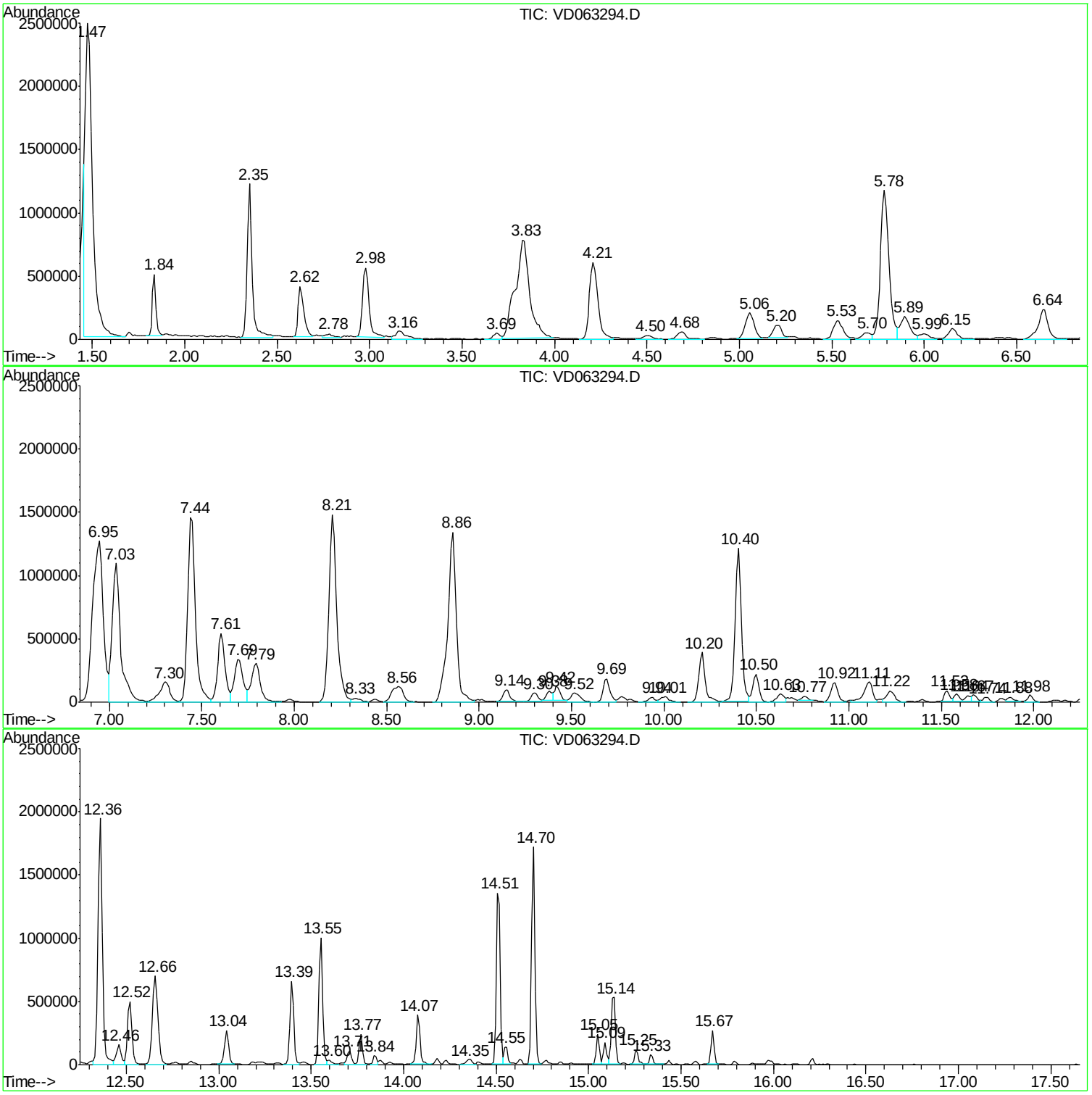
LSC Report - Integrated Chromatogram

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD080119\
Data File : VD063294.D
Acq On : 1 Aug 2019 16:01
Operator : VA/AP
Sample : K4120-04
Misc : 5.08g/5ml/MSVOA D/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : T2-1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
Quant Title : SW846 8260

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



Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD080119\
Data File : VD063294.D
Acq On : 1 Aug 2019 16:01
Operator : VA/AP
Sample : K4120-04
Misc : 5.08g/5ml/MSVOA D/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : T2-1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
Quant Title : SW846 8260

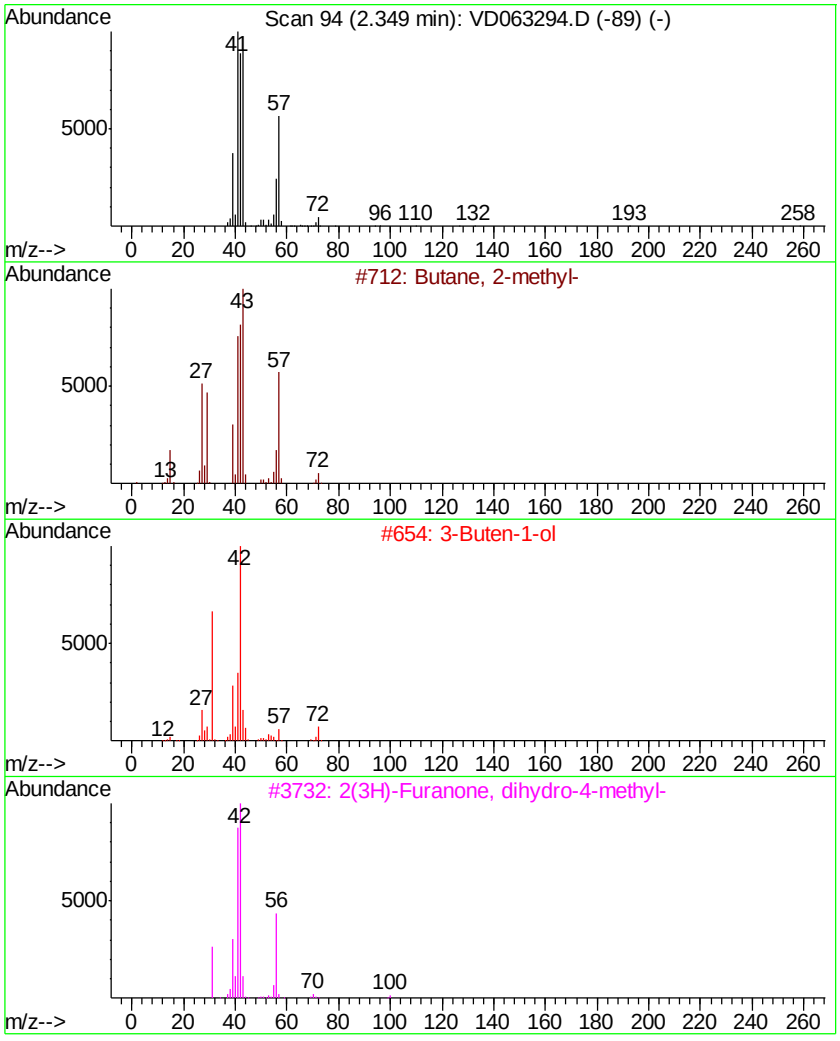
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

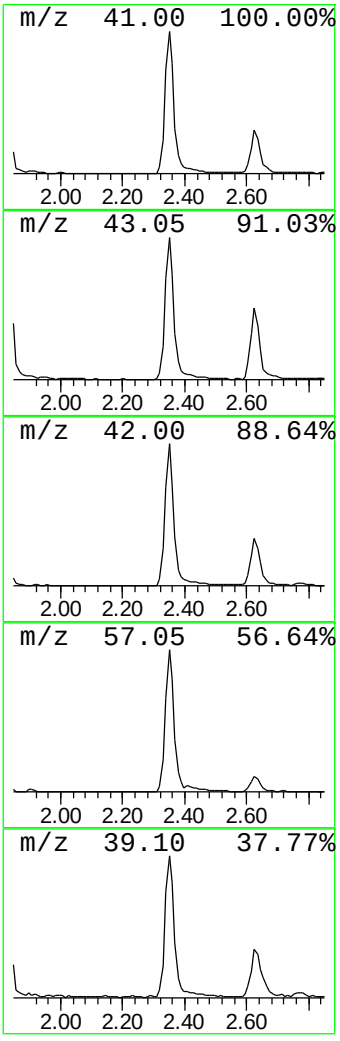
****

Peak Number 2 Butane, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.35	35.50 ug/l	2518060	Pentafluorobenzene	7.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	80
2	3-Buten-1-ol	72	C4H8O	000627-27-0	43
3	2(3H)-Furanone, dihydro-4-methyl-	100	C5H8O2	001679-49-8	33
4	Butane, 1-chloro-2-methyl-	106	C5H11Cl	000616-13-7	16
5	1-Propene, 2-methyl-	56	C4H8	000115-11-7	10





Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD080119\
Data File : VD063294.D
Acq On : 1 Aug 2019 16:01
Operator : VA/AP
Sample : K4120-04
Misc : 5.08g/5ml/MSVOA D/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : T2-1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
Quant Title : SW846 8260

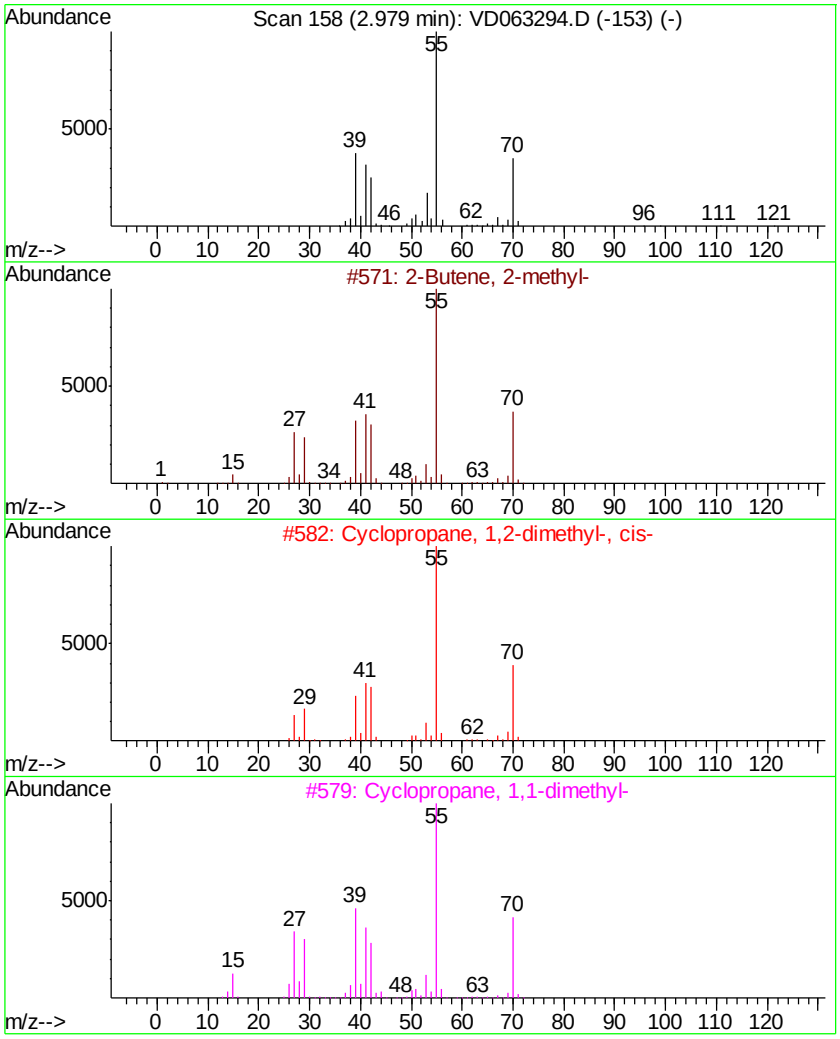
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

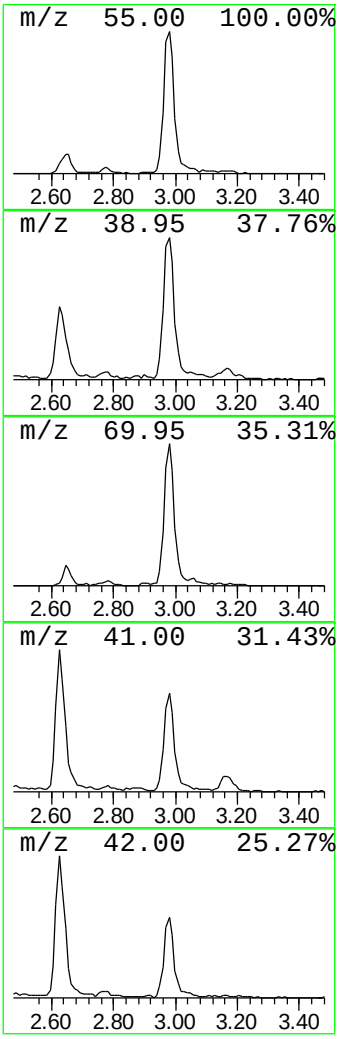
****

Peak Number 3 2-Butene, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.98	19.09 ug/l	1354530	Pentafluorobenzene	7.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Butene, 2-methyl-	70	C5H10	000513-35-9	87
2	Cyclopropane, 1,2-dimethyl-, cis-	70	C5H10	000930-18-7	86
3	Cyclopropane, 1,1-dimethyl-	70	C5H10	001630-94-0	74
4	1-Butene, 3-methyl-	70	C5H10	000563-45-1	72
5	2-Pentene, (E)-	70	C5H10	000646-04-8	64





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD080119\
Data File : VD063294.D
Acq On : 1 Aug 2019 16:01
Operator : VA/AP
Sample : K4120-04
Misc : 5.08g/5ml/MSVOA D/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : T2-1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
Quant Title : SW846 8260

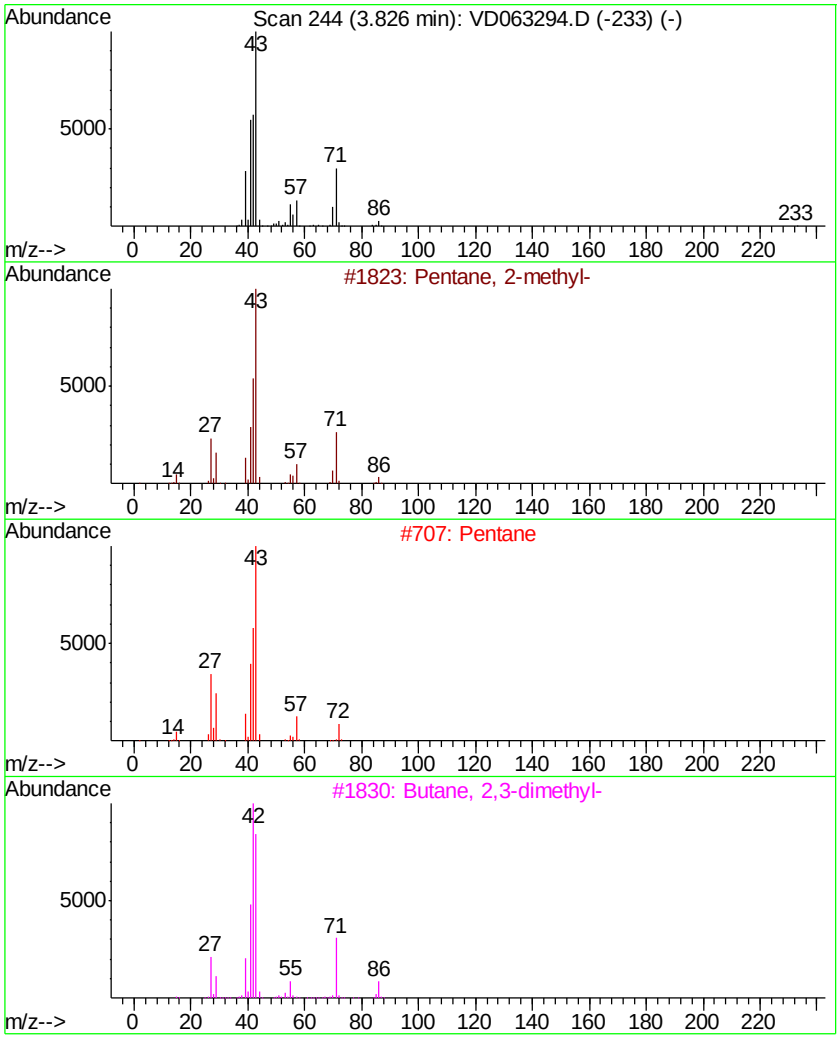
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

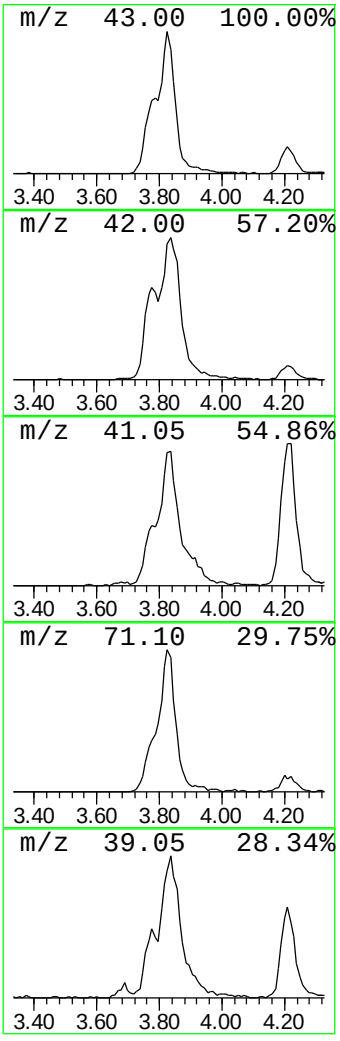
****

Peak Number 4 Pentane, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.83	58.60 ug/l	4156640	Pentafluorobenzene	7.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	90
2	Pentane	72	C5H12	000109-66-0	50
3	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	50
4	Pentane, 2-bromo-	150	C5H11Br	000107-81-3	45
5	1-Propanol, 2-methyl-	74	C4H10O	000078-83-1	28





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD080119\
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Acq On : 1 Aug 2019 16:01
Operator : VA/AP
Sample : K4120-04
Misc : 5.08g/5ml/MSVOA D/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : T2-1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
Quant Title : SW846 8260

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

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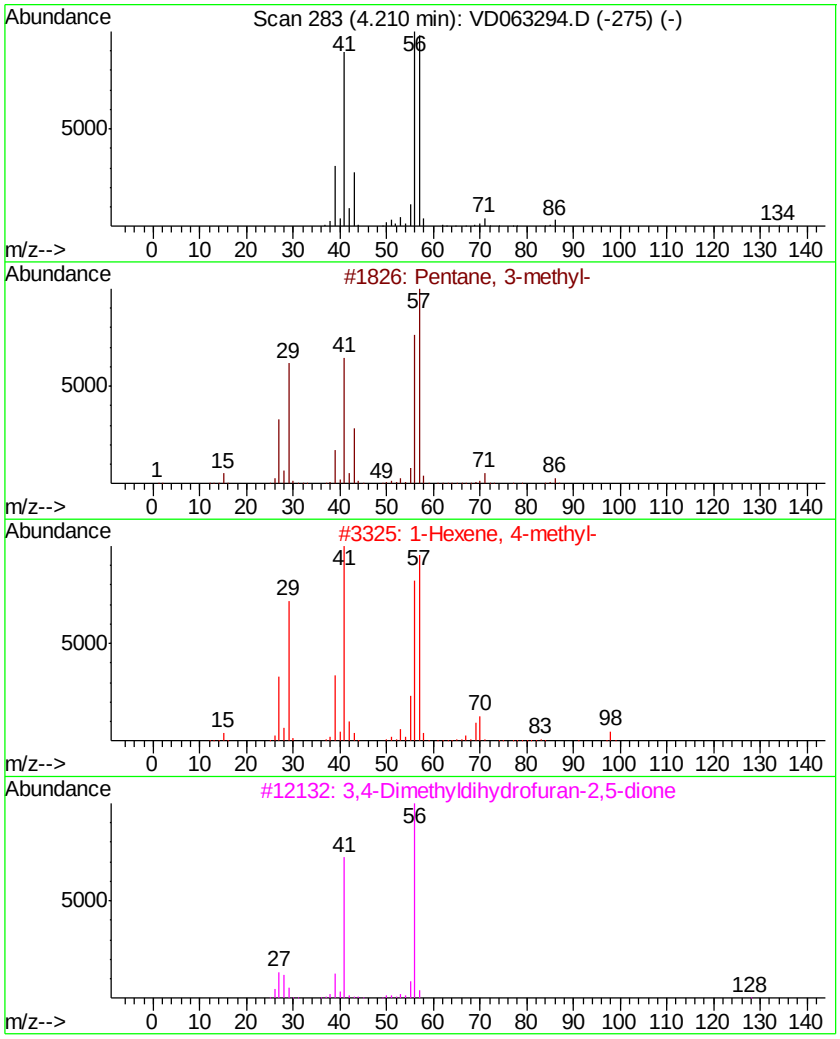
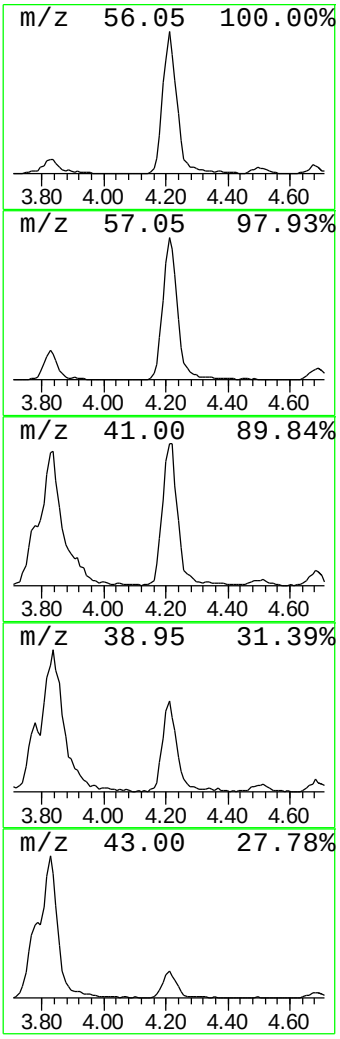
Peak Number 5 Pentane, 3-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.21	27.97 ug/l	1984350	Pentafluorobenzene	7.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	86
2	1-Hexene, 4-methyl-	98	C7H14	003769-23-1	64
3	3,4-Dimethyldihydrofuran-2,5-dione	128	C6H8O3	007475-92-5	59
4	Oxetane, 2,3,4-trimethyl-, (2.al...	100	C6H12O	032347-12-9	38
5	Butane, 2-nitro-	103	C4H9NO2	000600-24-8	25





Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD080119\
Data File : VD063294.D
Acq On : 1 Aug 2019 16:01
Operator : VA/AP
Sample : K4120-04
Misc : 5.08g/5ml/MSVOA D/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : T2-1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
Quant Title : SW846 8260

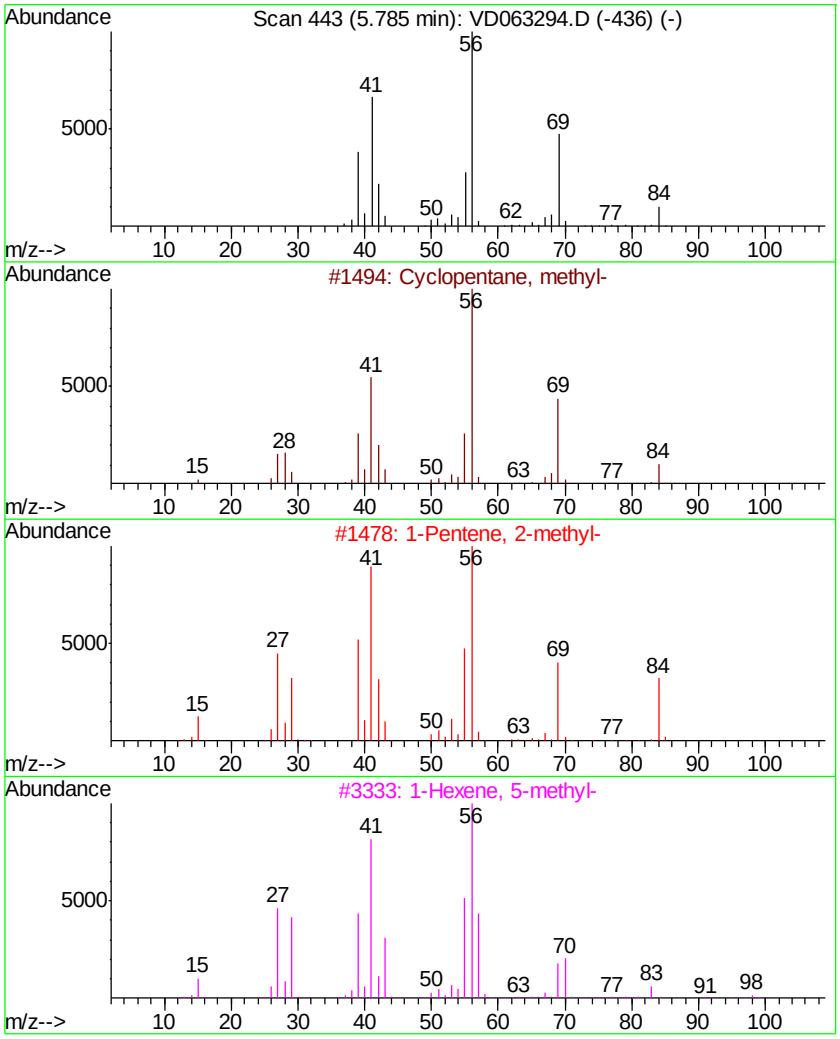
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

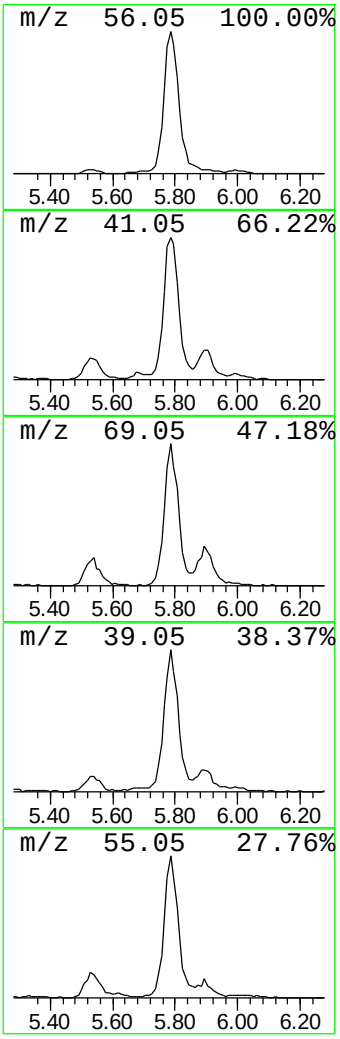
****

Peak Number 6 Cyclopentane, methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.78	55.03 ug/l	3903870	Pentafluorobenzene	7.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	76
2	1-Pentene, 2-methyl-	84	C6H12	000763-29-1	56
3	1-Hexene, 5-methyl-	98	C7H14	003524-73-0	50
4	1H-Tetrazole, 5-methyl-	84	C2H4N4	004076-36-2	50
5	Cyclobutane	56	C4H8	000287-23-0	43





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD080119\
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Sample : K4120-04
Misc : 5.08g/5ml/MSVOA D/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : T2-1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
Quant Title : SW846 8260

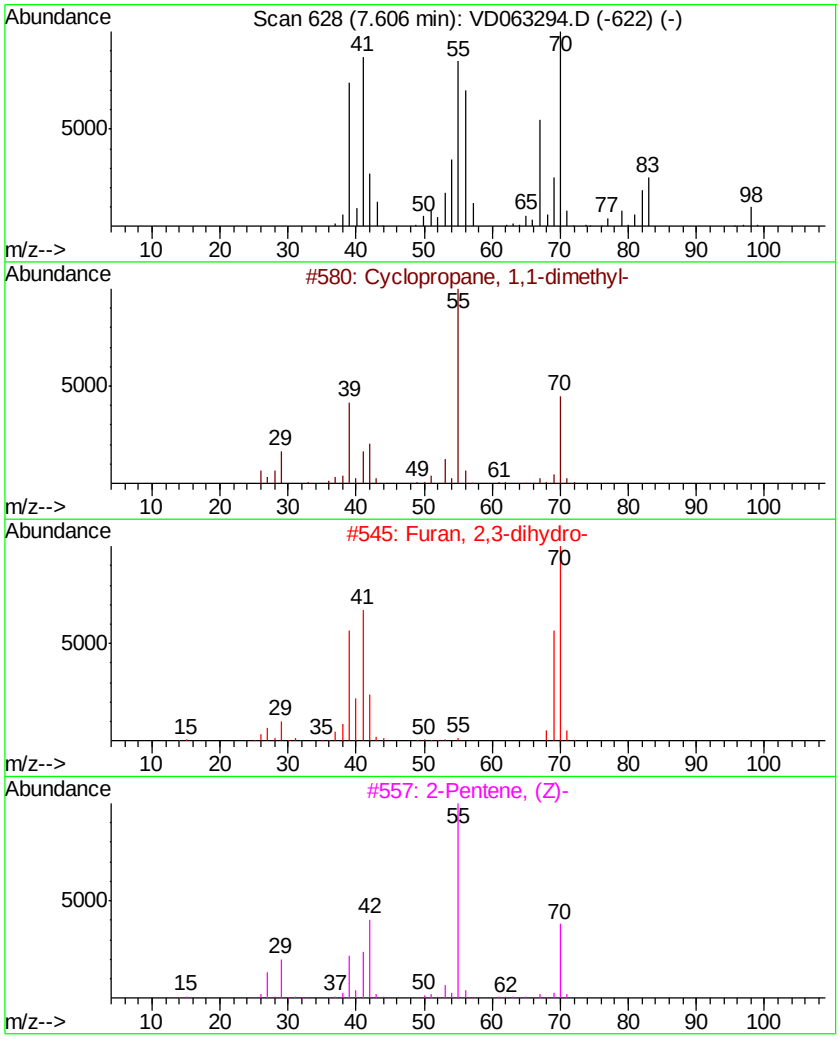
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

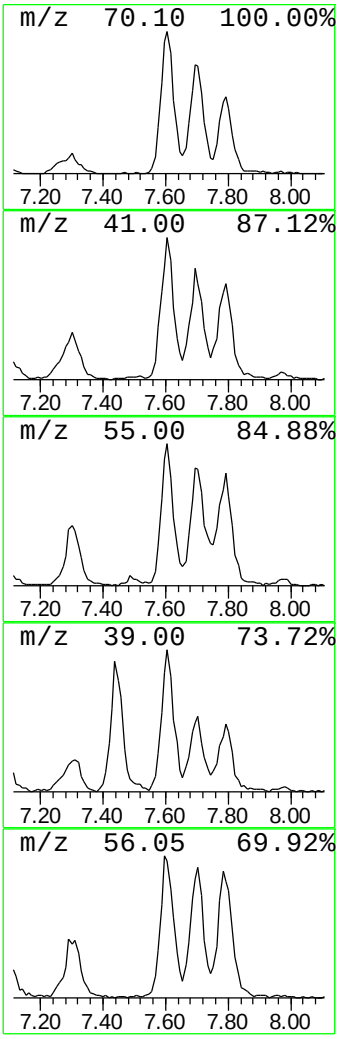
****

Peak Number 7 Cyclopropane, 1,1-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.61	22.47 ug/l	1594060	Pentafluorobenzene	7.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopropane, 1,1-dimethyl-	70	C5H10	001630-94-0	59
2	Furan, 2,3-dihydro-	70	C4H6O	001191-99-7	58
3	2-Pentene, (Z)-	70	C5H10	000627-20-3	53
4	1,3-Butadiene, 2,3-dimethyl-	82	C6H10	000513-81-5	53
5	2-Pentene	70	C5H10	000109-68-2	53





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Data File : VD063294.D
Acq On : 1 Aug 2019 16:01
Operator : VA/AP
Sample : K4120-04
Misc : 5.08g/5ml/MSVOA D/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : T2-1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
Quant Title : SW846 8260

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

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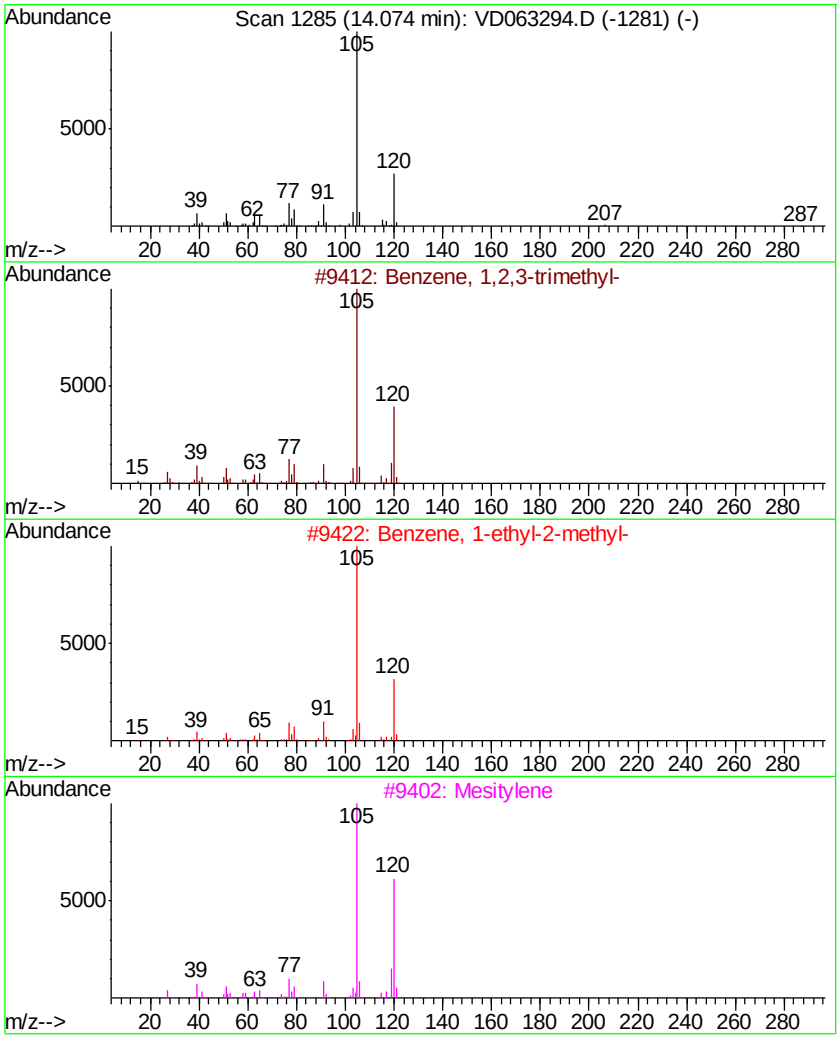
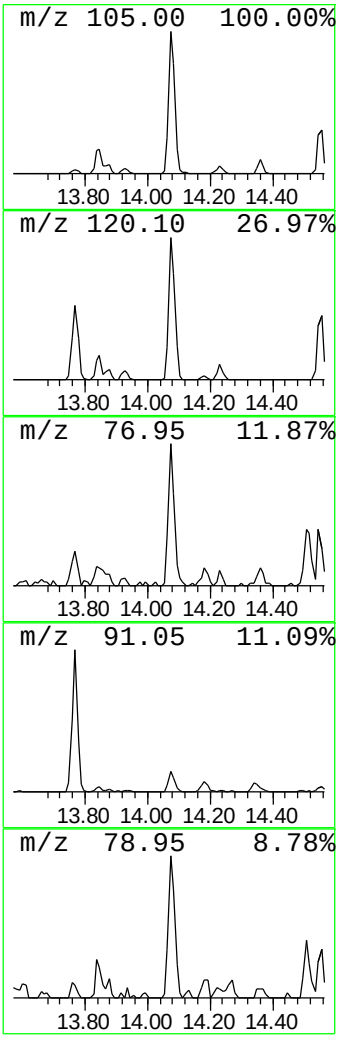
Peak Number 8 Benzene, 1,2,3-trimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.07	14.48 ug/l	560320	1,4-Dichlorobenzene-d4	14.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	90
2	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	90
3	Mesitylene	120	C9H12	000108-67-8	87
4	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	87
5	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	87





Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD080119\
Data File : VD063294.D
Acq On : 1 Aug 2019 16:01
Operator : VA/AP
Sample : K4120-04
Misc : 5.08g/5ml/MSVOA D/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : T2-1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
Quant Title : SW846 8260

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

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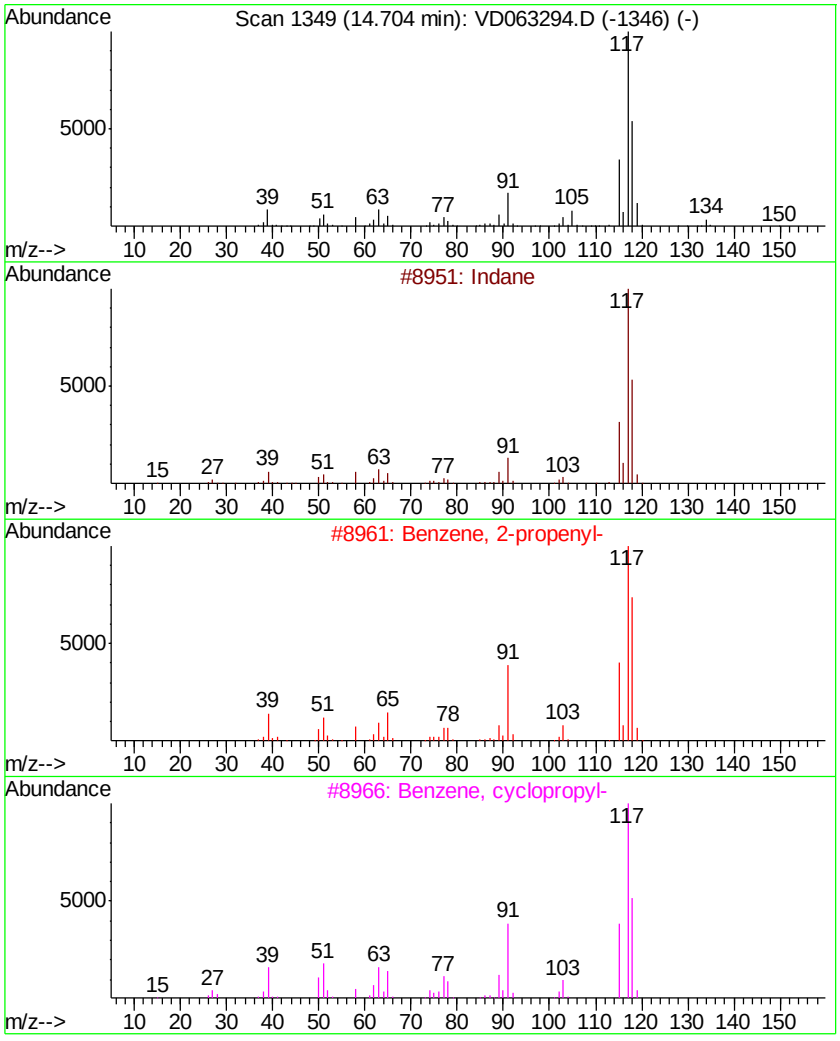
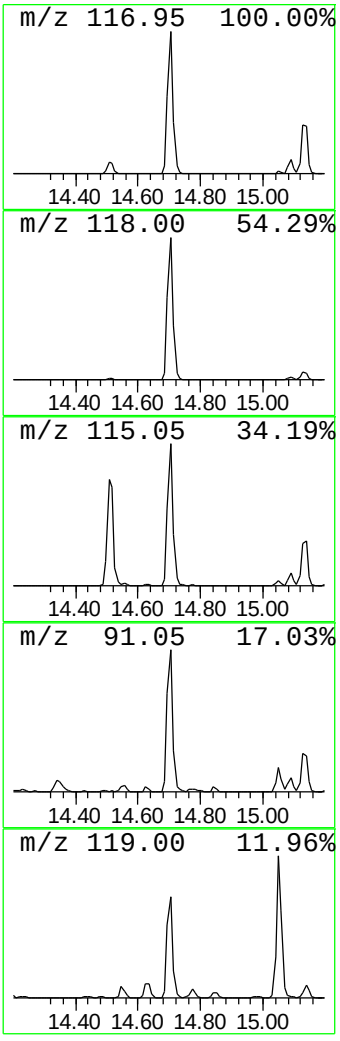
Peak Number 9 Indane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.70	55.26 ug/l	2138880	1,4-Dichlorobenzene-d4	14.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	81
2	Benzene, 2-propenyl-	118	C9H10	000300-57-2	81
3	Benzene, cyclopropyl-	118	C9H10	000873-49-4	76
4	Deltacyclene	118	C9H10	007785-10-6	68
5	1,4:5,8-Dimethanobiphenylene, 1,...	184	C14H16	001624-13-1	64





Library Search Compound Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD080119\
Data File : VD063294.D
Acq On : 1 Aug 2019 16:01
Operator : VA/AP
Sample : K4120-04
Misc : 5.08g/5ml/MSVOA D/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : T2-1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
Quant Title : SW846 8260

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

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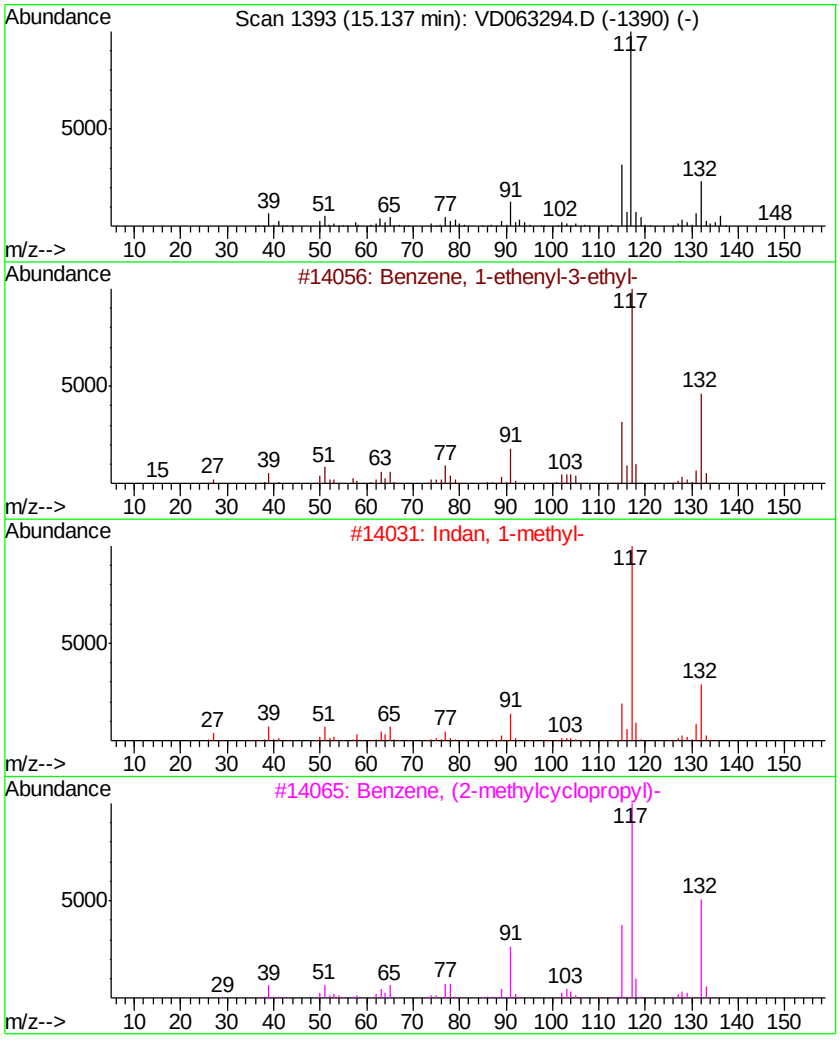
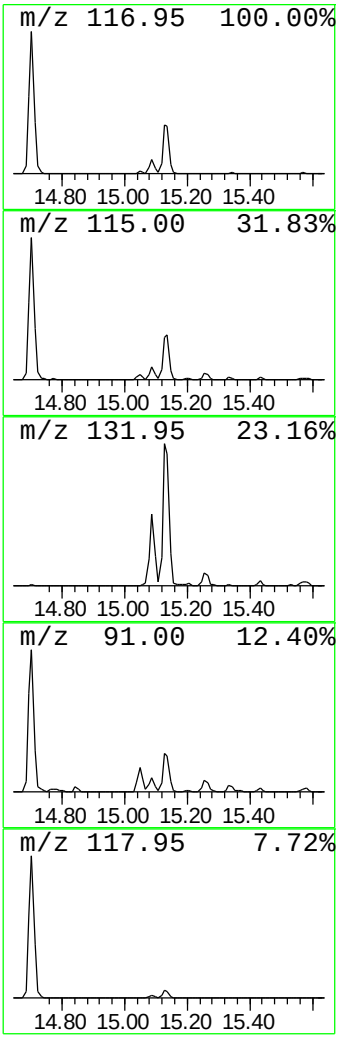
Peak Number 10 Benzene, 1-ethenyl-3-ethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.14	20.46 ug/l	791786	1,4-Dichlorobenzene-d4	14.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethenyl-3-ethyl-	132	C10H12	007525-62-4	90
2	Indan, 1-methyl-	132	C10H12	000767-58-8	87
3	Benzene, (2-methylcyclopropyl)-	132	C10H12	1000327-39-0	80
4	Benzene, 1-methyl-2-(2-propenyl)-	132	C10H12	001587-04-8	80
5	Benzene, (2-methyl-2-propenyl)-	132	C10H12	003290-53-7	72





Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD080119\
Data File : VD063294.D
Acq On : 1 Aug 2019 16:01
Operator : VA/AP
Sample : K4120-04
Misc : 5.08g/5ml/MSVOA_D/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : T2-1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
Quant Title : SW846 8260

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Butane, 2-methyl-	2.35	35.5	ug/l	2518060	1	7.03	3546890	50.0
2-Butene, 2-methyl-	2.98	19.1	ug/l	1354530	1	7.03	3546890	50.0
Pentane, 2-methyl-	3.83	58.6	ug/l	4156640	1	7.03	3546890	50.0
Pentane, 3-methyl-	4.21	28.0	ug/l	1984350	1	7.03	3546890	50.0
Cyclopentane, met...	5.78	55.0	ug/l	3903870	1	7.03	3546890	50.0
Cyclopropane, 1,1...	7.61	22.5	ug/l	1594060	1	7.03	3546890	50.0
Benzene, 1,2,3-tr...	14.07	14.5	ug/l	560320	4	14.52	1935370	50.0
Indane	14.70	55.3	ug/l	2138880	4	14.52	1935370	50.0
Benzene, 1-etheny...	15.14	20.5	ug/l	791786	4	14.52	1935370	50.0