

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF092818\
 Data File : VF060379.D
 Acq On : 28 Sep 2018 20:49
 Operator : VA/AP
 Sample : J5170-01
 Misc : 6.04/5mL/MSVOA F/SOIL
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 HC-SOIL-1

Quant Time: Sep 29 00:19:54 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F091918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 20 02:58:42 2018
 Response via : Initial Calibration

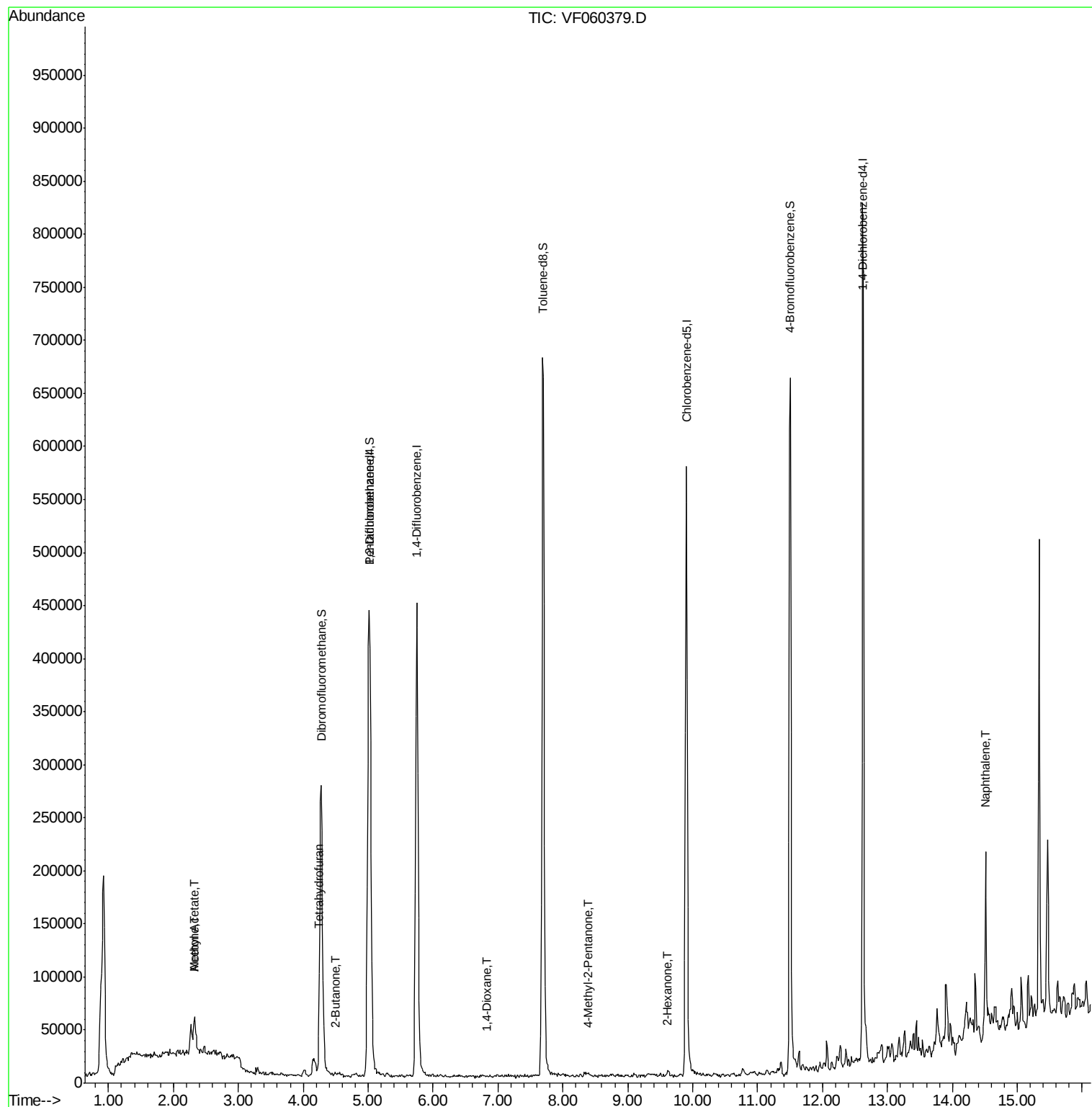
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.03	168	294151	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.75	114	496153	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	420169	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	215086	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.01	65	228463	57.68	ug/l	0.00
Spiked Amount 50.000			Recovery	=	115.36%	
35) Dibromofluoromethane	4.28	113	258145	58.37	ug/l	0.00
Spiked Amount 50.000			Recovery	=	116.74%	
50) Toluene-d8	7.69	98	597497	51.87	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	103.74%	
62) 4-Bromofluorobenzene	11.50	95	253551	50.93	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.86%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.99	85	795	Below Cal		97
5) Bromomethane	1.35	94	604	Below Cal	#	74
11) Tert butyl alcohol	2.66	59	303	Below Cal	#	1
13) Acrolein	2.13	56	826	Below Cal		88
16) Acetone	2.34	43	38142	34.194	ug/l #	84
17) Carbon Disulfide	1.90	76	7717	Below Cal	#	92
18) Methyl Acetate	2.34	43	38142	20.526	ug/l #	64
20) Methylene Chloride	2.27	84	15920	Below Cal		91
25) 2-Butanone	4.49	43	4945	3.294	ug/l	95
29) Tetrahydrofuran	4.24	42	980	1.782	ug/l #	47
49) 1,4-Dioxane	6.84	88	126	6.373	ug/l #	21
51) 4-Methyl-2-Pentanone	8.40	43	4463	1.837	ug/l #	86
59) 2-Hexanone	9.62	43	6284	3.632	ug/l	89
78) n-propylbenzene	11.68	91	1621	Below Cal		88
85) sec-Butylbenzene	12.38	105	1389	Below Cal		87
86) p-Isopropyltoluene	12.53	119	1517	Below Cal		90
89) n-Butylbenzene	12.91	91	3388	Below Cal		67
95) Naphthalene	14.51	128	82796	8.759	ug/l	95

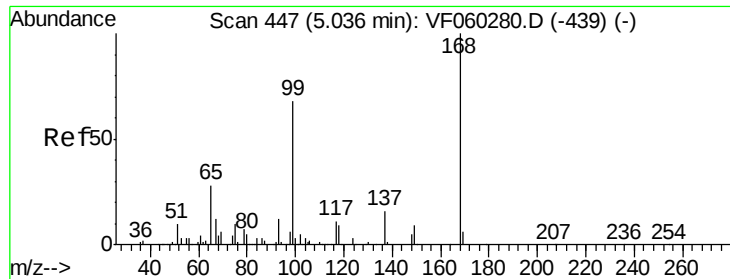
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F091918S.M
Quant Title : SW846 8260
QLast Update : Thu Sep 20 02:58:42 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 446

Delta R.T. -0.01 min

Lab File: VF060379.D

Acq: 28 Sep 2018 20:49

Instrument :

MSVOA_F

ClientSampled :

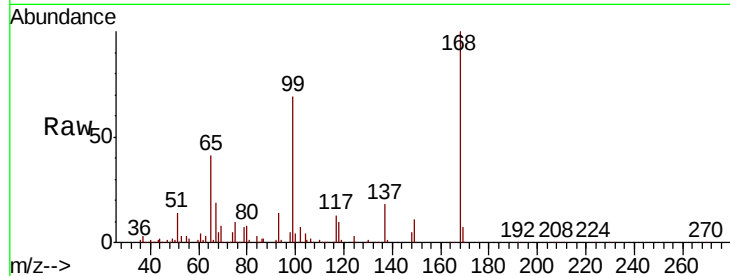
HC-SOIL-1

Tot Ion:168 Resp: 294151

Ion Ratio Lower Upper

168 100

99 69.2 54.8 82.2



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.03

100000

80000

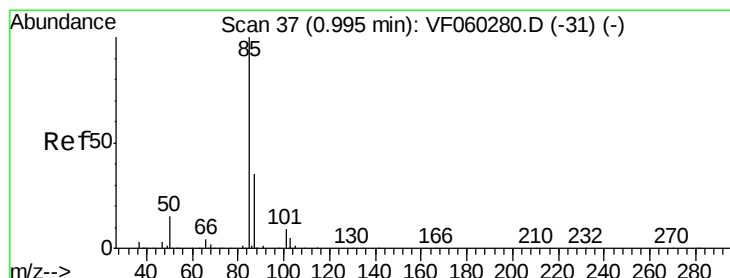
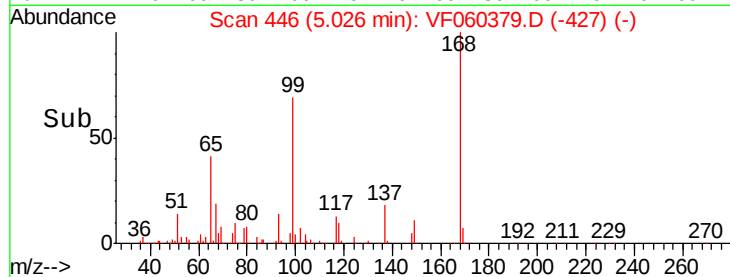
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.99 min Scan# 37

Delta R.T. 0.00 min

Lab File: VF060379.D

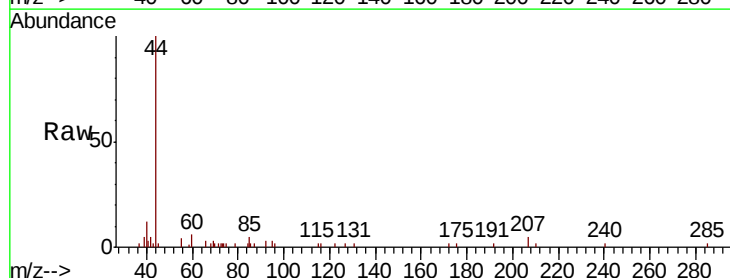
Acq: 28 Sep 2018 20:49

Tgt Ion: 85 Resp: 795

Ion Ratio Lower Upper

85 100

87 33.0 17.3 52.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

500

400

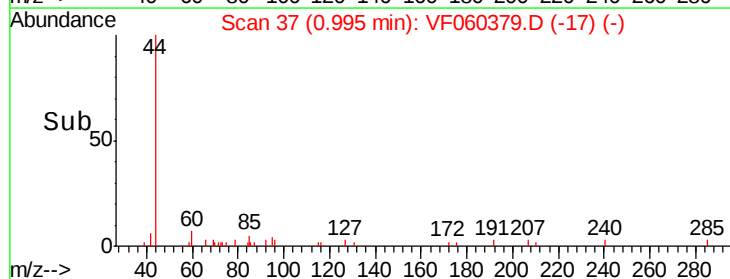
300

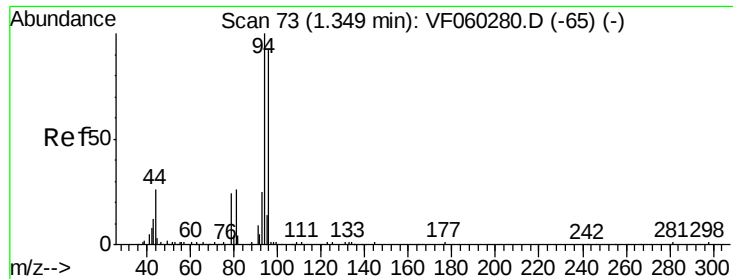
200

100

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.35 min Scan# 73

Delta R.T. 0.00 min

Lab File: VF060379.D

Acq: 28 Sep 2018 20:49

Instrument :

MSVOA_F

ClientSampleId :

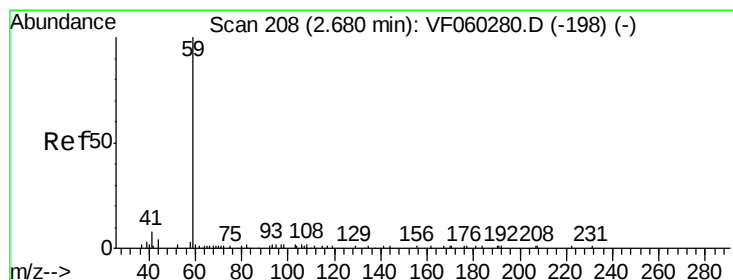
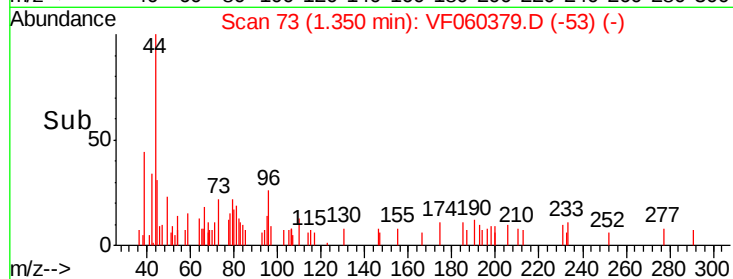
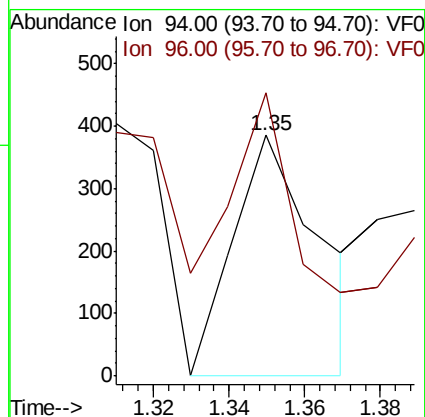
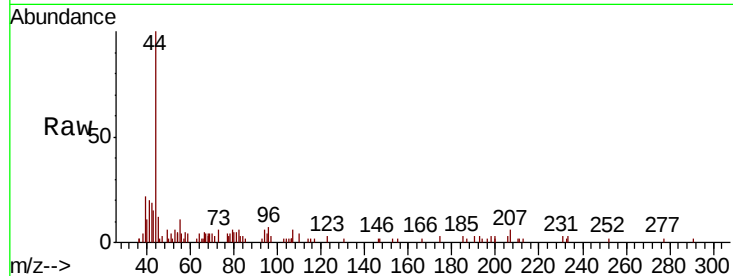
HC-SOIL-1

Tot Ion: 94 Resp: 604

Ion Ratio Lower Upper

94 100

96 117.4 73.9 110.9#



#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.66 min Scan# 206

Delta R.T. -0.02 min

Lab File: VF060379.D

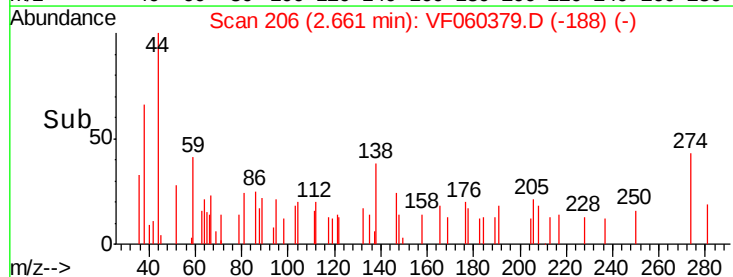
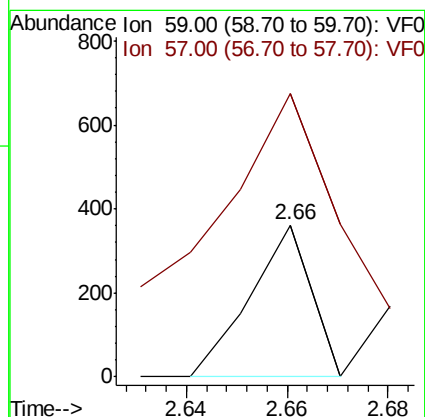
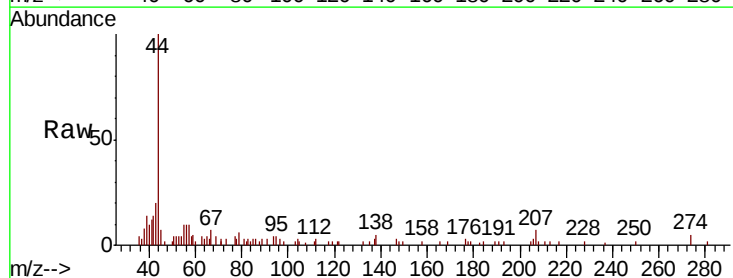
Acq: 28 Sep 2018 20:49

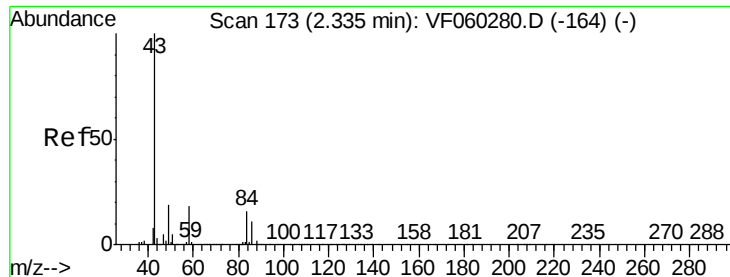
Tgt Ion: 59 Resp: 303

Ion Ratio Lower Upper

59 100

57 186.7 12.4 18.6#





#16

Acetone

Concen: 34.194 ug/l

RT: 2.34 min Scan# 173

Delta R.T. 0.00 min

Lab File: VF060379.D

Acq: 28 Sep 2018 20:49

Instrument :

MSVOA_F

ClientSampleId :

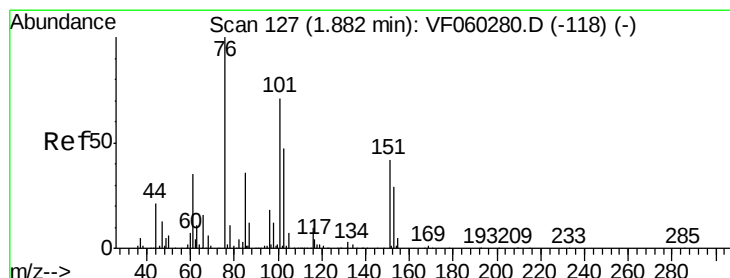
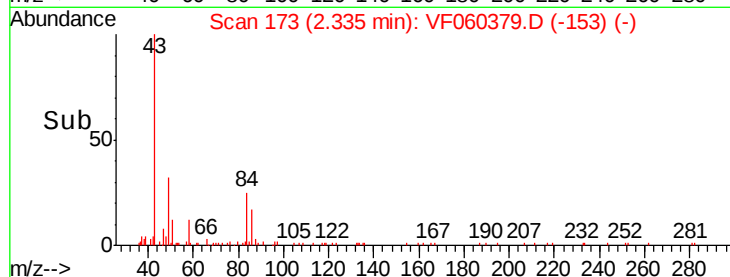
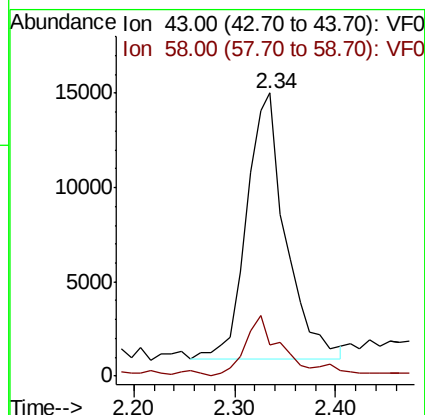
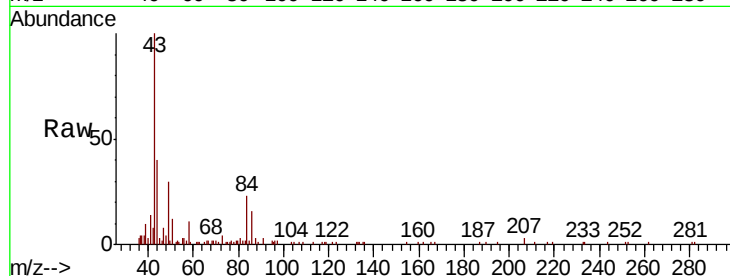
HC-SOIL-1

Tot Ion: 43 Resp: 38142

Ion Ratio Lower Upper

43 100

58 11.0 14.5 21.7#



#17

Carbon Disulfide

Concen: Below Cal

RT: 1.90 min Scan# 129

Delta R.T. 0.02 min

Lab File: VF060379.D

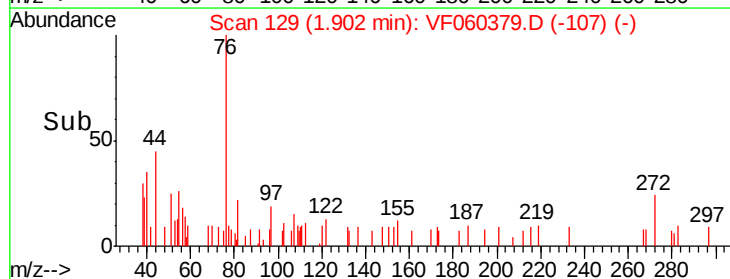
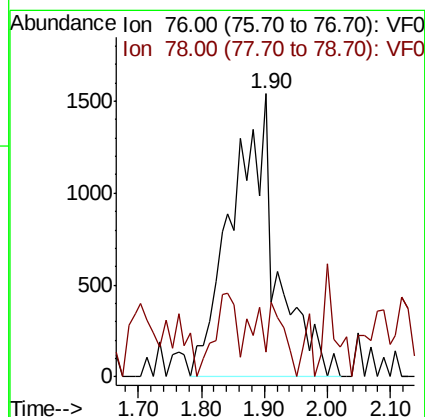
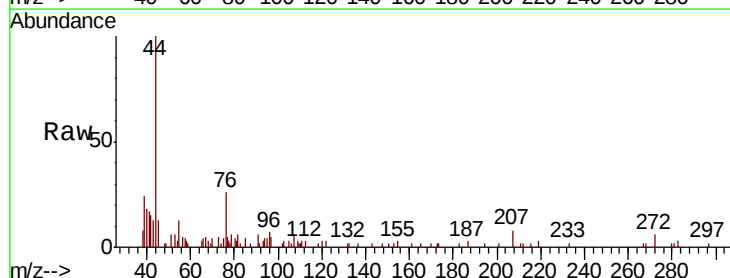
Acq: 28 Sep 2018 20:49

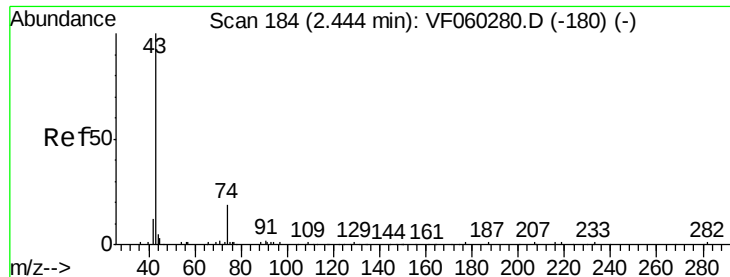
Tgt Ion: 76 Resp: 7717

Ion Ratio Lower Upper

76 100

78 8.6 9.4 14.0#

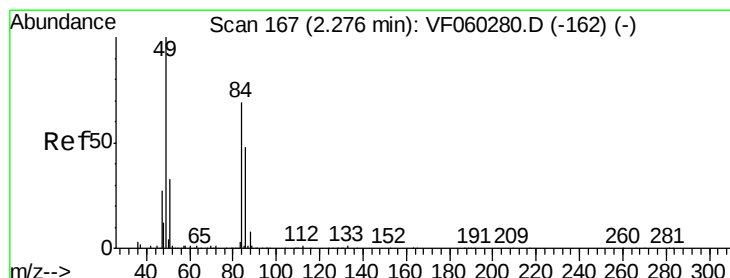
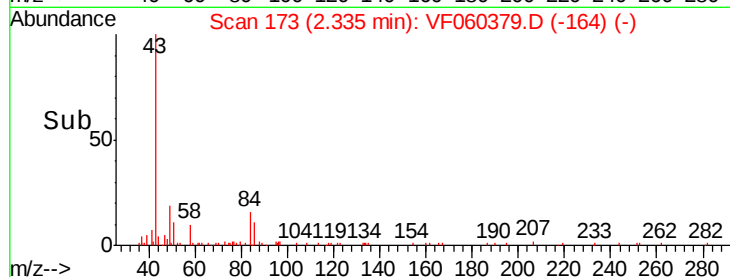
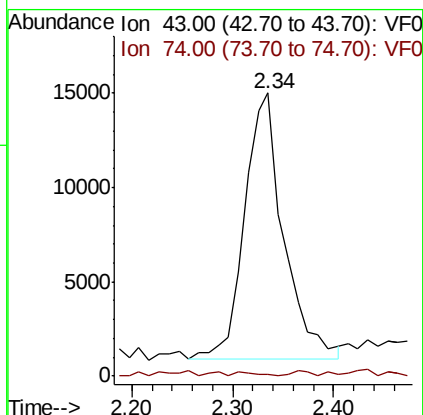
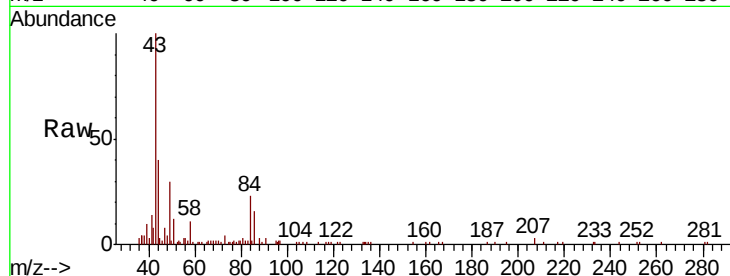




#18
Methvl Acetate
Concen: 20.526 ug/l
RT: 2.34 min Scan# 173
Delta R.T. -0.11 min
Lab File: VF060379.D
Acq: 28 Sep 2018 20:49

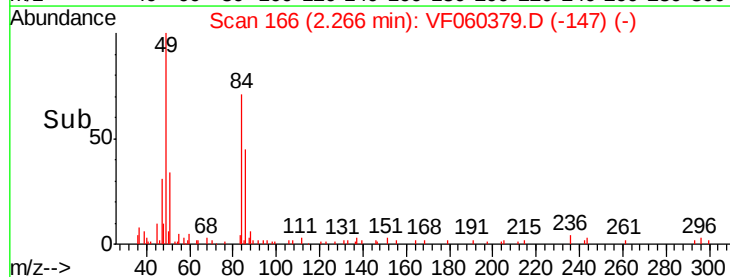
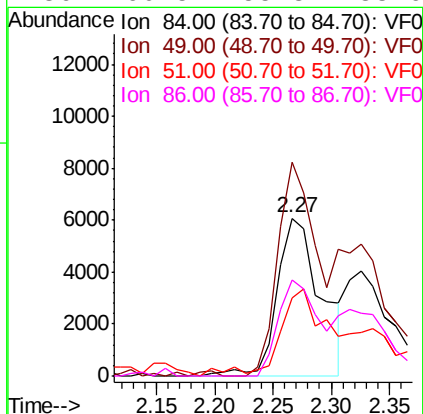
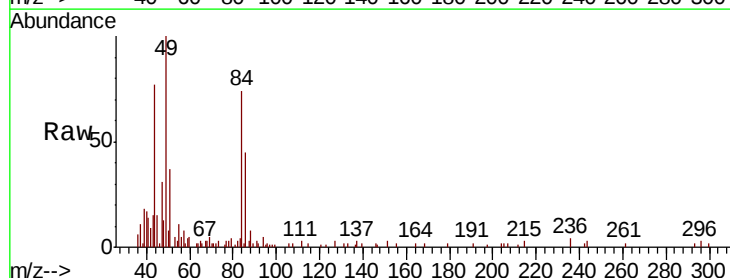
Instrument :
MSVOA_F
ClientSampleId :
HC-SOIL-1

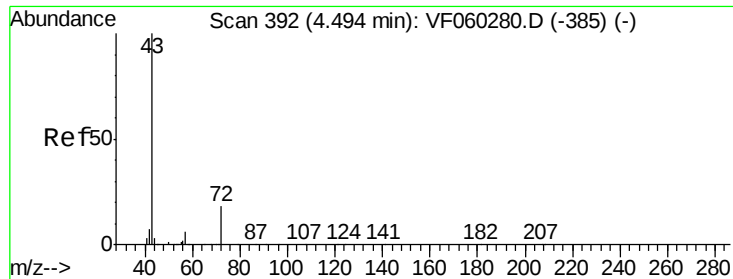
Tot Ion: 43 Resp: 38142
Ion Ratio Lower Upper
43 100
74 0.8 12.7 19.1#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.27 min Scan# 166
Delta R.T. -0.01 min
Lab File: VF060379.D
Acq: 28 Sep 2018 20:49

Tgt Ion: 84 Resp: 15920
Ion Ratio Lower Upper
84 100
49 135.2 118.3 177.5
51 49.4 38.7 58.1
86 60.5 55.8 83.6





#25

2-Butanone

Concen: 3.294 ug/l

RT: 4.49 min Scan# 392

Delta R.T. 0.00 min

Lab File: VF060379.D

Acq: 28 Sep 2018 20:49

Instrument :

MSVOA_F

ClientSampled :

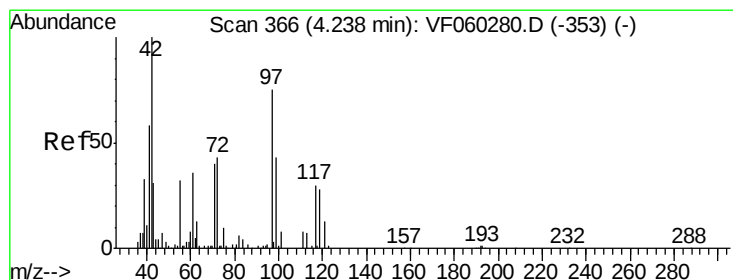
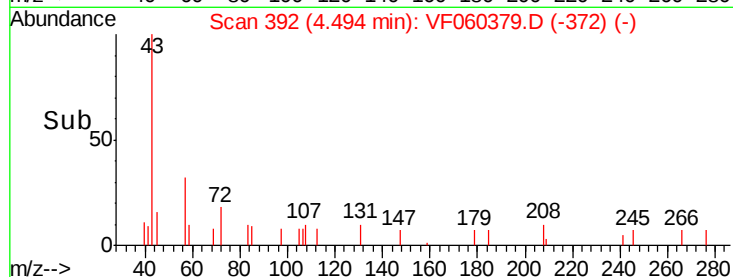
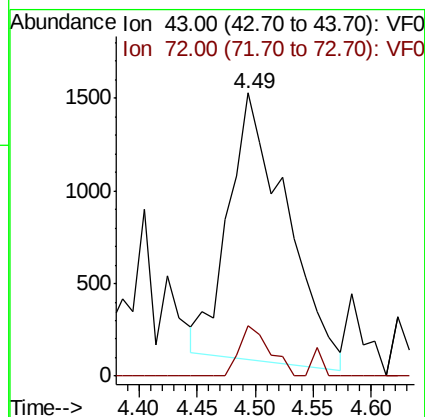
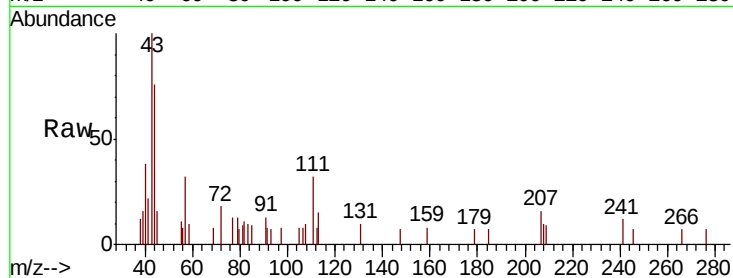
HC-SOIL-1

Tot Ion: 43 Resp: 4945

Ion Ratio Lower Upper

43 100

72 17.9 16.2 24.2



#29

Tetrahydrofuran

Concen: 1.782 ug/l

RT: 4.24 min Scan# 366

Delta R.T. 0.00 min

Lab File: VF060379.D

Acq: 28 Sep 2018 20:49

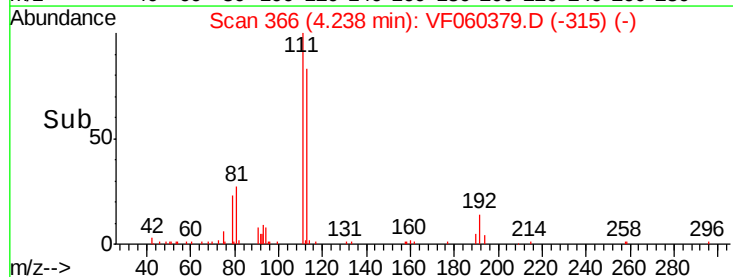
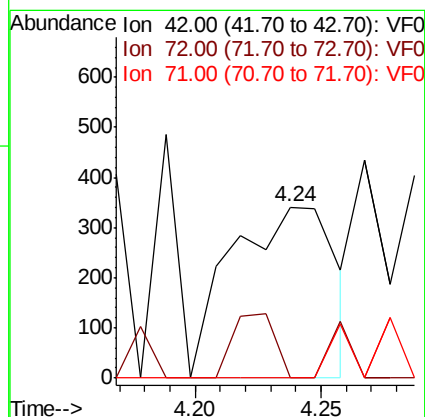
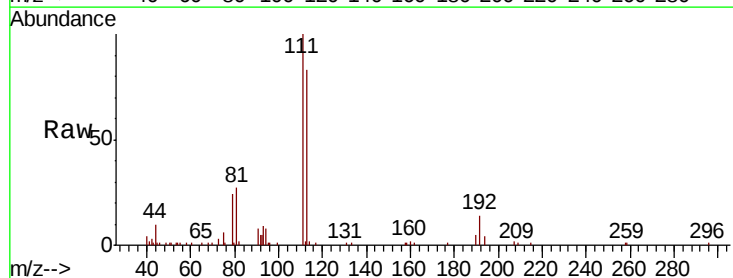
Tgt Ion: 42 Resp: 980

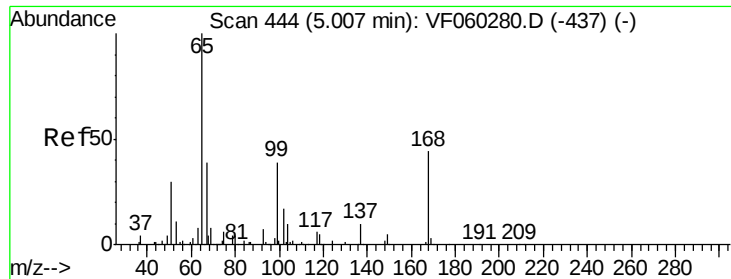
Ion Ratio Lower Upper

42 100

72 15.1 32.6 49.0#

71 0.0 32.7 49.1#

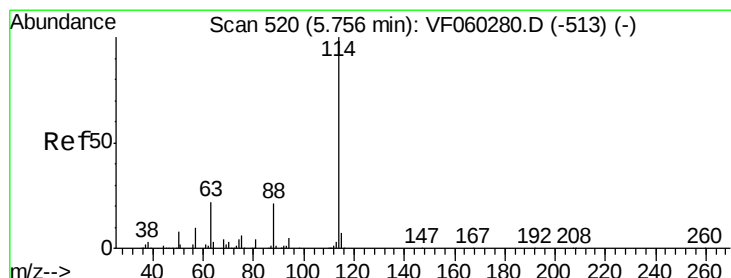
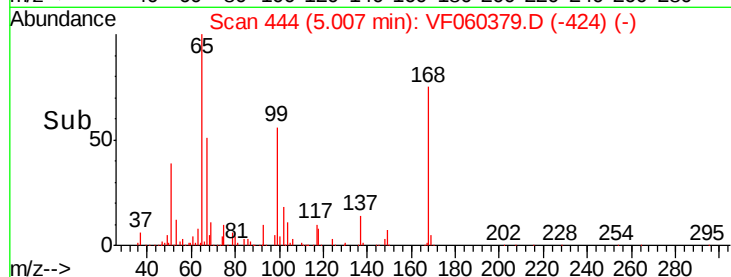
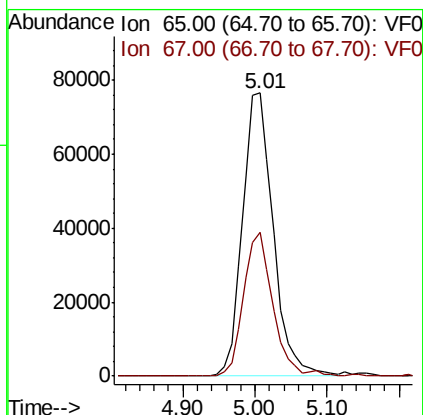
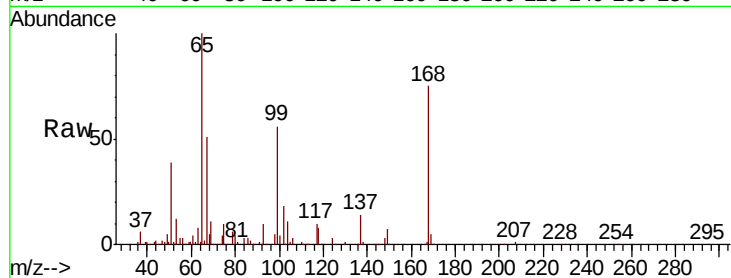




#33
 1,2-Dichloroethane-d4
 Concen: 57.681 ug/l
 RT: 5.01 min Scan# 444
 Delta R.T. 0.00 min
 Lab File: VF060379.D
 Acq: 28 Sep 2018 20:49

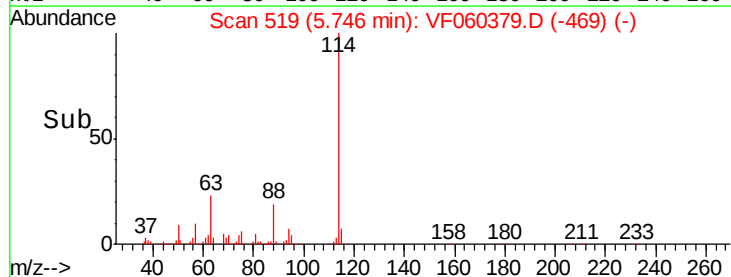
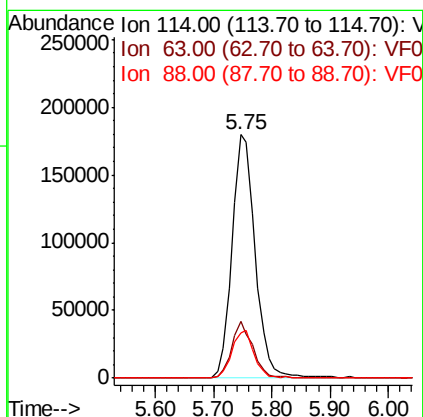
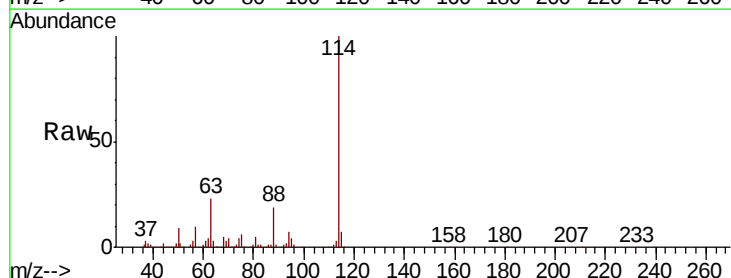
Instrument :
 MSVOA_F
 ClientSampled :
 HC-SOIL-1

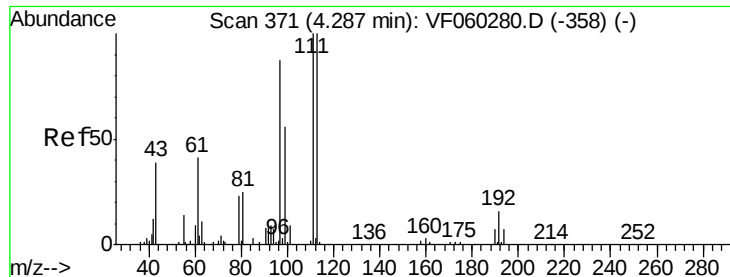
Tot Ion: 65 Resp: 228463
 Ion Ratio Lower Upper
 65 100
 67 50.7 0.0 94.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.75 min Scan# 519
 Delta R.T. -0.01 min
 Lab File: VF060379.D
 Acq: 28 Sep 2018 20:49

Tgt Ion: 114 Resp: 496153
 Ion Ratio Lower Upper
 114 100
 63 23.3 0.0 43.8
 88 18.7 0.0 41.2





#35

Dibromofluoromethane

Concen: 58.366 ug/l

RT: 4.28 min Scan# 370

Delta R.T. -0.01 min

Lab File: VF060379.D

Acq: 28 Sep 2018 20:49

Instrument :

MSVOA_F

ClientSampled :

HC-SOIL-1

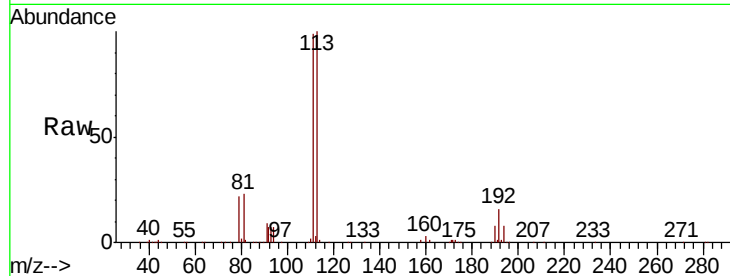
Tot Ion:113 Resp: 258145

Ion Ratio Lower Upper

113 100

111 99.0 79.6 119.4

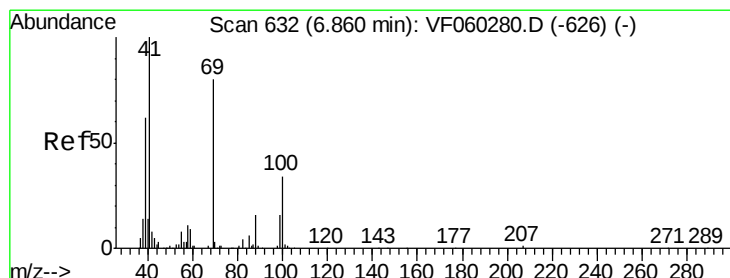
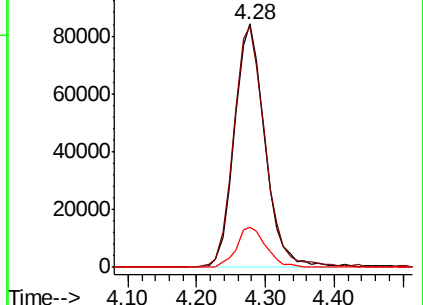
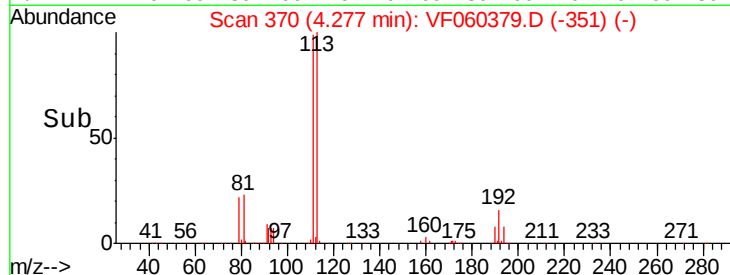
192 16.4 13.0 19.6



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#49

1,4-Dioxane

Concen: 6.373 ug/l

RT: 6.84 min Scan# 630

Delta R.T. -0.02 min

Lab File: VF060379.D

Acq: 28 Sep 2018 20:49

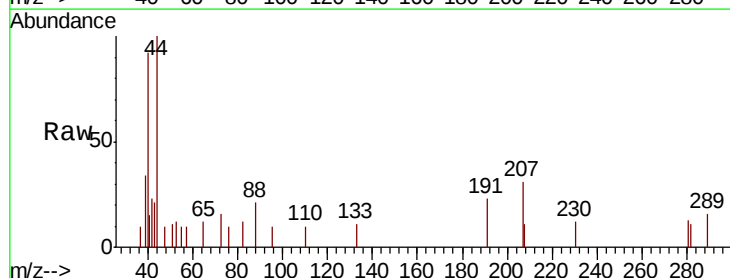
Tgt Ion: 88 Resp: 126

Ion Ratio Lower Upper

88 100

43 98.6 40.2 60.4#

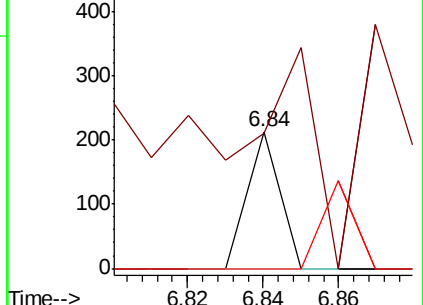
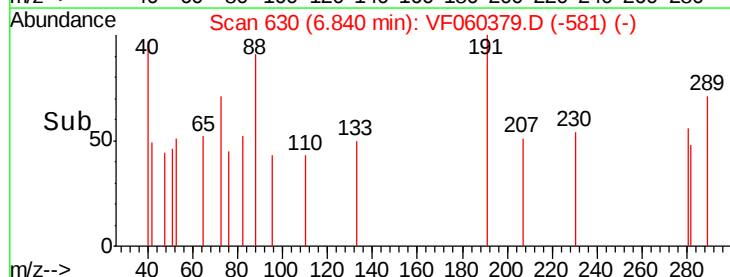
58 0.0 56.7 85.1#

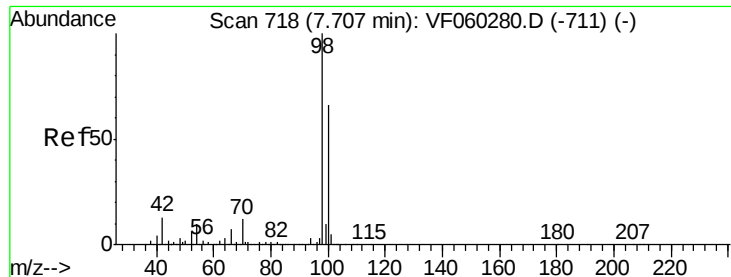


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 51.875 ug/l

RT: 7.69 min Scan# 716

Delta R.T. -0.02 min

Lab File: VF060379.D

Acq: 28 Sep 2018 20:49

Instrument :

MSVOA_F

ClientSampleId :

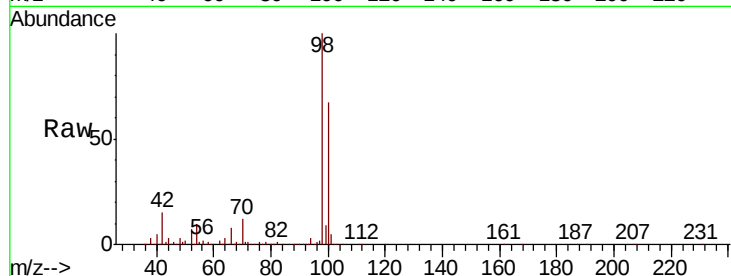
HC-SOIL-1

Tot Ion: 98 Resp: 597497

Ion Ratio Lower Upper

98 100

100 67.0 53.0 79.6



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

250000

200000

150000

100000

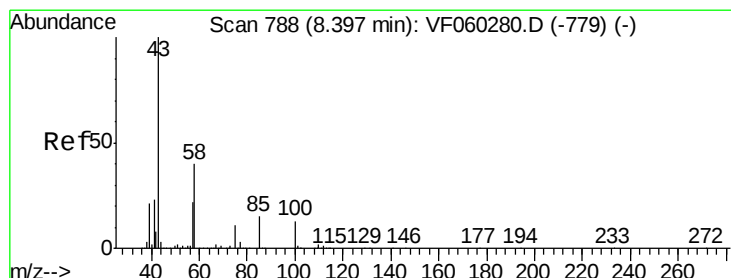
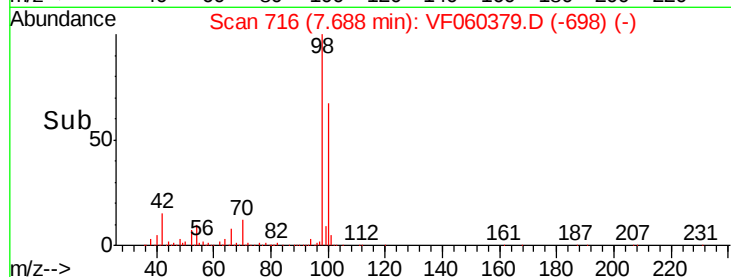
50000

0

7.69

7.60 7.70 7.80 7.90

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.837 ug/l

RT: 8.40 min Scan# 788

Delta R.T. 0.00 min

Lab File: VF060379.D

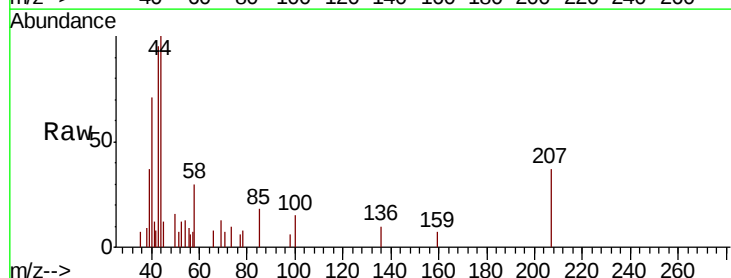
Acq: 28 Sep 2018 20:49

Tgt Ion: 43 Resp: 4463

Ion Ratio Lower Upper

43 100

58 31.4 31.8 47.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

1500

1000

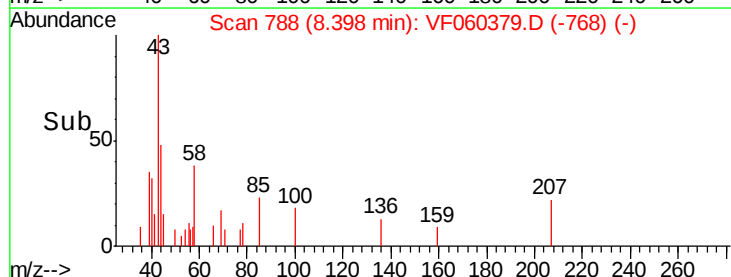
500

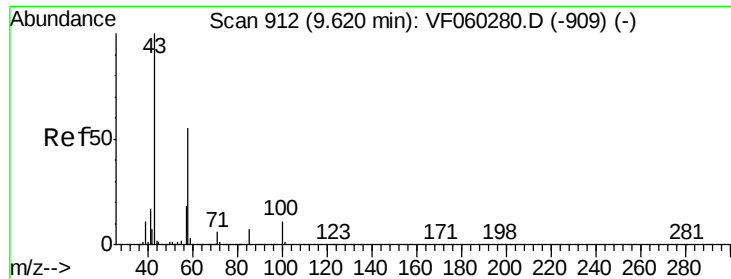
0

8.40

8.30 8.35 8.40 8.45 8.50

Time-->

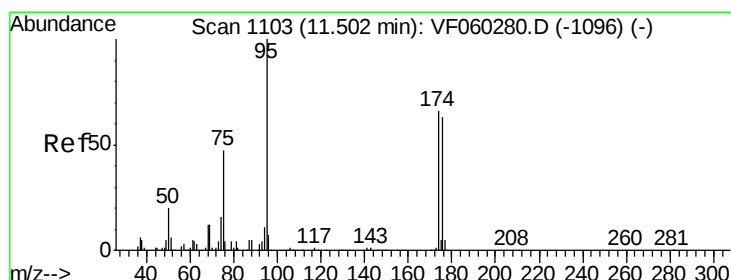
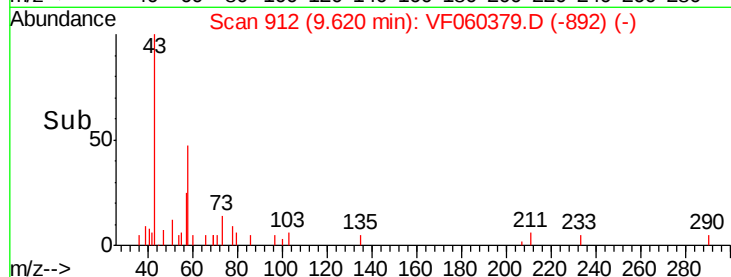
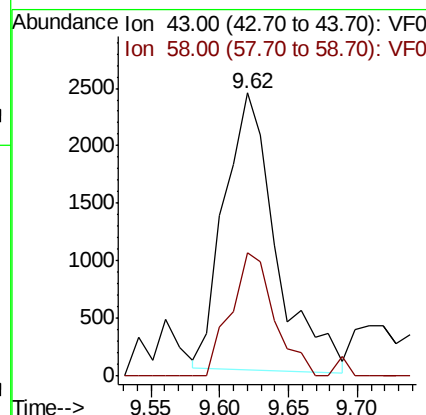
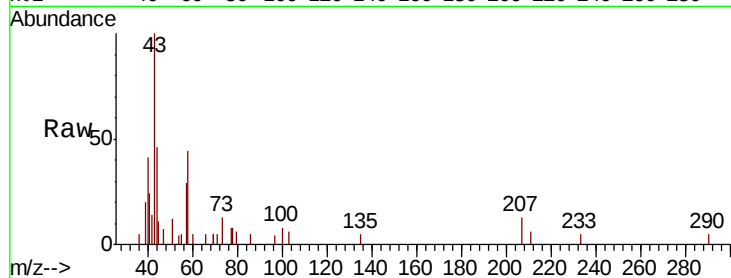




#59
2-Hexanone
Concen: 3.632 ug/l
RT: 9.62 min Scan# 912
Delta R.T. 0.00 min
Lab File: VF060379.D
Acq: 28 Sep 2018 20:49

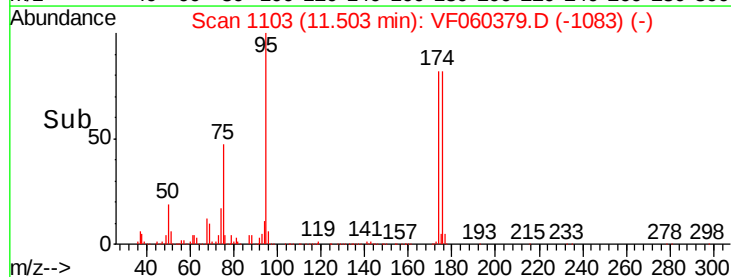
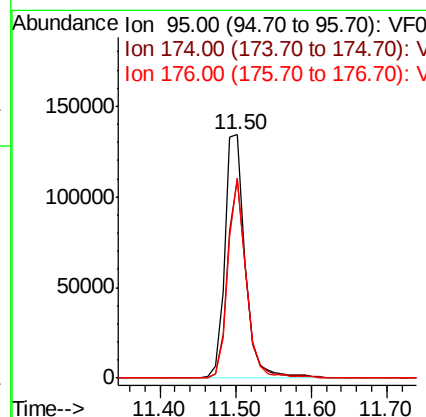
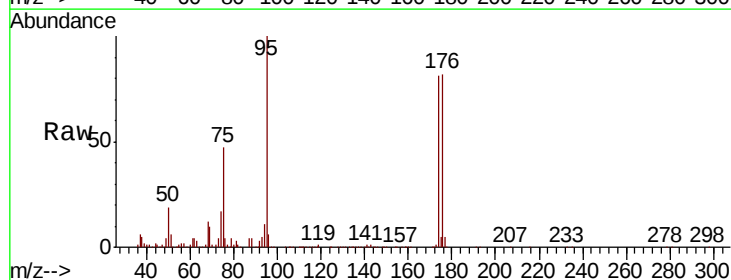
Instrument :
MSVOA_F
ClientSampled :
HC-SOIL-1

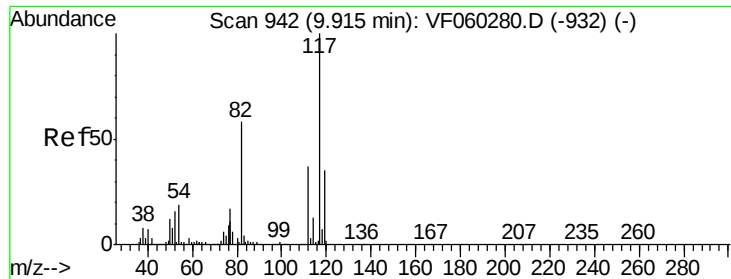
Tot Ion: 43 Resp: 6284
Ion Ratio Lower Upper
43 100
58 43.7 25.9 77.6



#62
4-Bromofluorobenzene
Concen: 50.925 ug/l
RT: 11.50 min Scan# 1103
Delta R.T. 0.00 min
Lab File: VF060379.D
Acq: 28 Sep 2018 20:49

Tgt Ion: 95 Resp: 253551
Ion Ratio Lower Upper
95 100
174 81.5 0.0 131.2
176 82.3 0.0 126.6

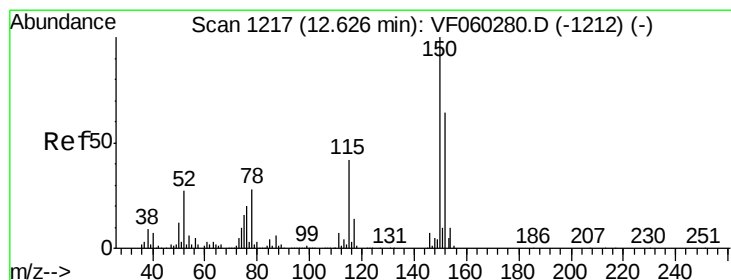
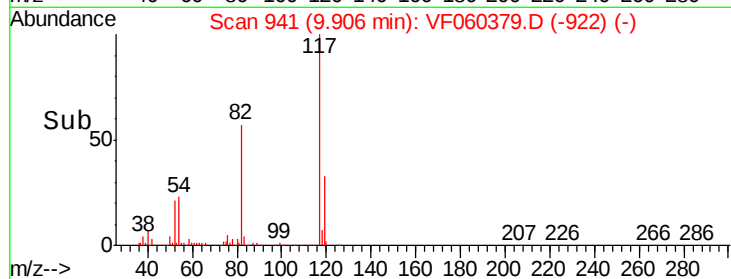
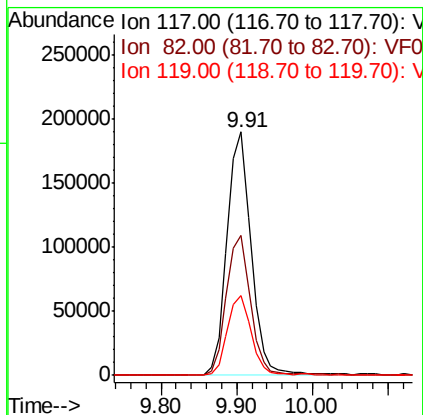
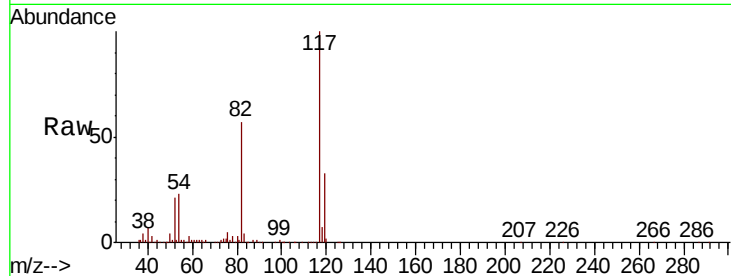




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 941
Delta R.T. -0.01 min
Lab File: VF060379.D
Acq: 28 Sep 2018 20:49

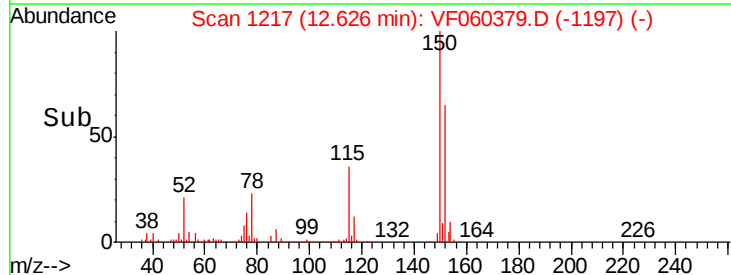
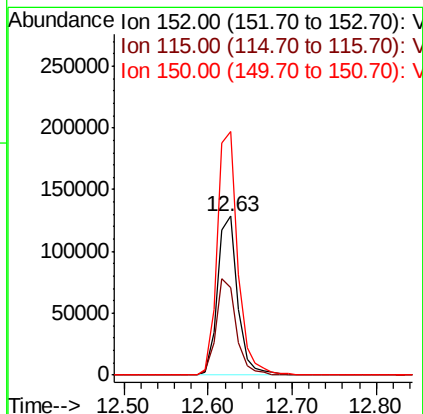
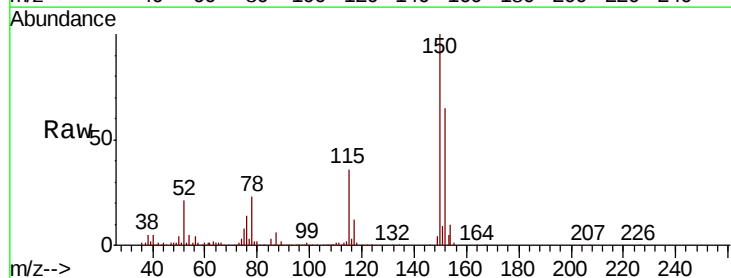
Instrument :
MSVOA_F
ClientSampleId :
HC-SOIL-1

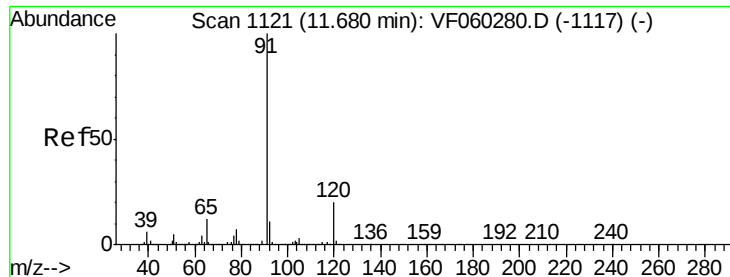
Tot Ion	Ratio	Lower	Upper
117	100		
82	57.4	46.2	69.2
119	32.6	27.8	41.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.63 min Scan# 1217
Delta R.T. 0.00 min
Lab File: VF060379.D
Acq: 28 Sep 2018 20:49

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.3	32.6	97.8
150	153.4	0.0	314.2





#78

n-propylbenzene

Concen: Below Cal

RT: 11.68 min Scan# 1121

Delta R.T. 0.00 min

Lab File: VF060379.D

Acq: 28 Sep 2018 20:49

Instrument :

MSVOA_F

ClientSampled :

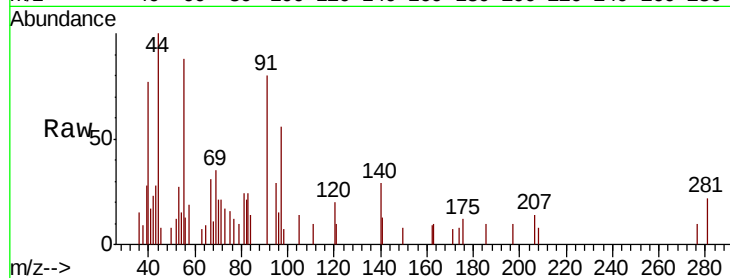
HC-SOIL-1

Tot Ion: 91 Resp: 1621

Ion Ratio Lower Upper

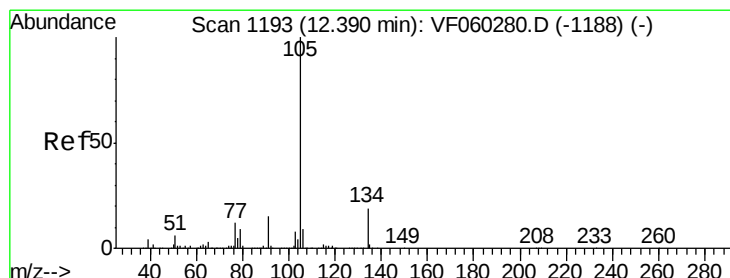
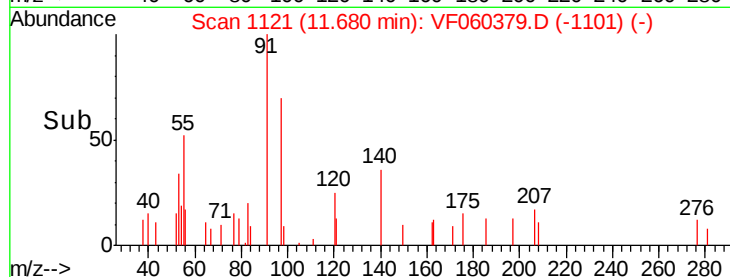
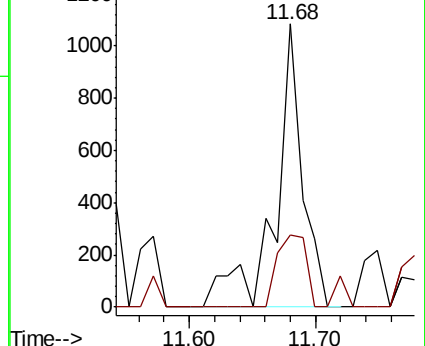
91 100

120 25.5 10.0 29.8



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V



#85

sec-Butylbenzene

Concen: Below Cal

RT: 12.38 min Scan# 1192

Delta R.T. -0.01 min

Lab File: VF060379.D

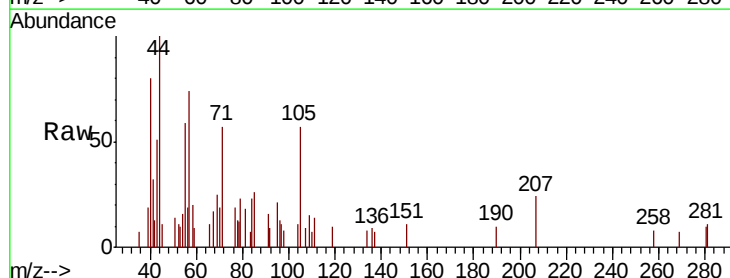
Acq: 28 Sep 2018 20:49

Tgt Ion: 105 Resp: 1389

Ion Ratio Lower Upper

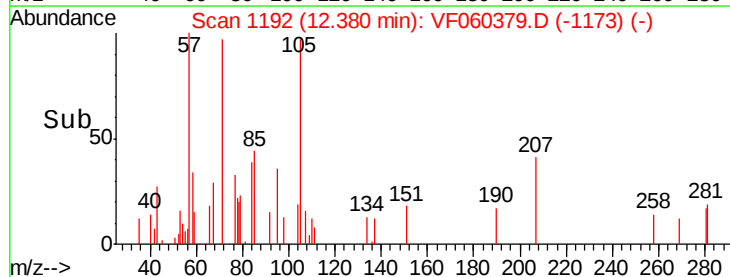
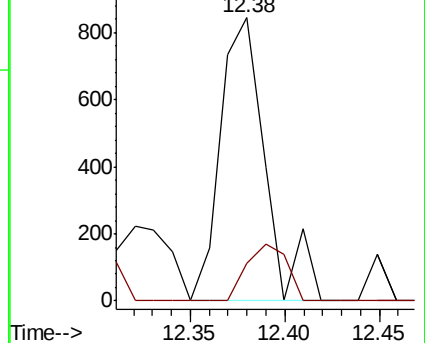
105 100

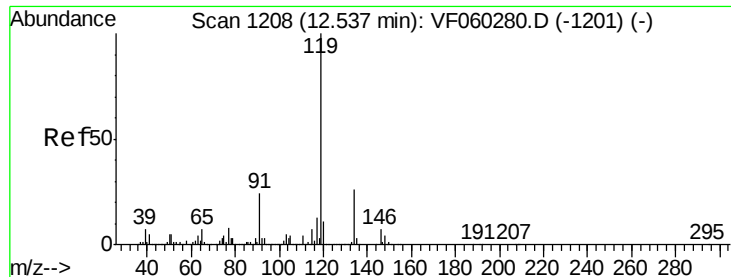
134 13.4 9.6 28.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



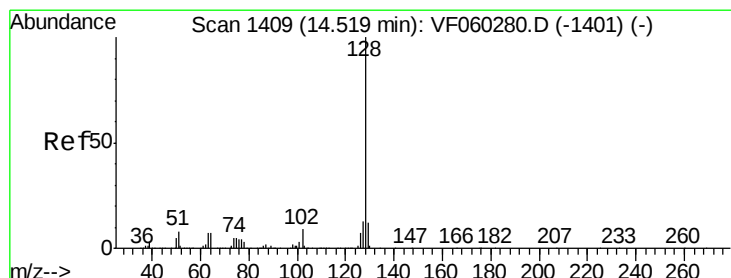
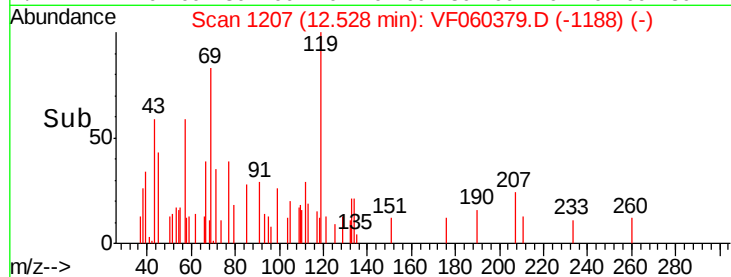
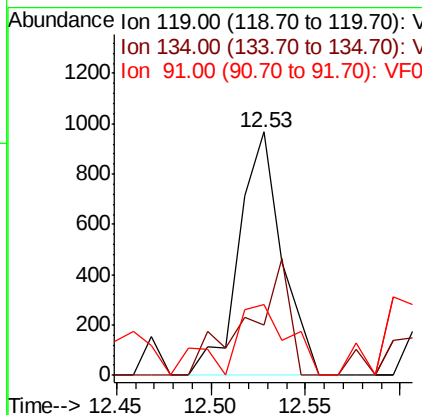
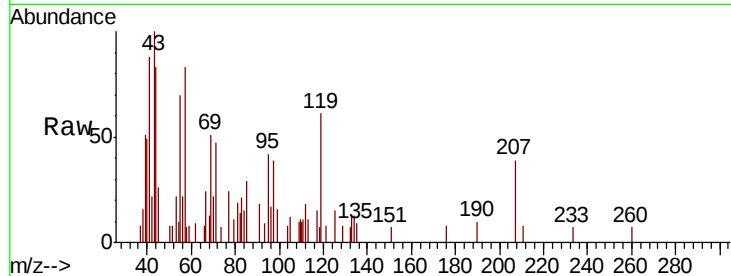


#86

p-Isopropyltoluene
 Concen: Below Cal
 RT: 12.53 min Scan# 1207
 Delta R.T. -0.01 min
 Lab File: VF060379.D
 Acq: 28 Sep 2018 20:49

Instrument :
 MSVOA_F
 ClientSampleId :
 HC-SOIL-1

Tot Ion	Ratio	Lower	Upper
119	100		
134	20.7	12.9	38.7
91	28.9	11.9	35.7



#95

Naphthalene
 Concen: 8.759 ug/l
 RT: 14.51 min Scan# 1408
 Delta R.T. -0.01 min
 Lab File: VF060379.D
 Acq: 28 Sep 2018 20:49

Tgt Ion	Ratio	Lower	Upper
128	100		
127	15.0	10.1	15.1
129	13.5	9.8	14.8

