

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF100218\
 Data File : VF060407.D
 Acq On : 2 Oct 2018 17:32
 Operator : VA/AP
 Sample : J5170-13
 Misc : 5.22/5mL/MSVOA F/SOIL
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 HC-SOIL-3

Quant Time: Oct 03 02:34:30 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F100118S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 02 11:42:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.02	168	14867	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.74	114	16959	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.89	117	5730	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	0.00	152	0	0.00	ug/l	-12.62

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.99	65	2414	10.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	20.76%	
35) Dibromofluoromethane	4.26	113	4199	26.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	52.72%	
50) Toluene-d8	7.69	98	13555	34.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	69.10%	
62) 4-Bromofluorobenzene	11.50	95	619	3.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	6.92%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.98	85	77	Below Cal	# 43
8) Diethyl Ether	1.67	74	98	1.468	ug/l 75
11) Tert butyl alcohol	2.63	59	81	5.756	ug/l # 77
12) 1,1-Dichloroethene	1.84	96	400	2.218	ug/l # 1
13) Acrolein	1.93	56	148	13.078	ug/l 87
14) Allyl chloride	2.17	41	819	2.834	ug/l # 42
15) Acrylonitrile	3.03	53	169	7.009	ug/l # 14
16) Acetone	2.35	43	442	Below Cal	# 66
18) Methyl Acetate	2.47	43	1313	13.728	ug/l # 57
20) Methylene Chloride	2.26	84	784	Below Cal	# 31
21) trans-1,2-Dichloroethene	2.43	96	223	1.238	ug/l # 1
23) Vinyl Acetate	3.33	43	495	2.376	ug/l # 81
25) 2-Butanone	4.47	43	365	6.059	ug/l # 60
26) 2,2-Dichloropropane	3.74	77	235	1.170	ug/l # 1
27) cis-1,2-Dichloroethene	3.62	96	270	1.341	ug/l 7
29) Tetrahydrofuran	4.21	42	572	21.009	ug/l # 88
31) Cyclohexane	3.80	56	402	1.578	ug/l # 33
37) Ethyl Acetate	4.24	43	674	8.418	ug/l # 30
41) Methacrylonitrile	4.87	41	322	7.585	ug/l # 44
42) 1,2-Dichloroethane	5.00	62	378	1.909	ug/l 83
43) Isopropyl Acetate	7.07	43	276	2.852	ug/l # 44
45) 1,2-Dichloropropane	6.37	63	142	1.285	ug/l # 46
46) Dibromomethane	6.17	93	98	1.103	ug/l # 9
48) Methyl methacrylate	6.85	41	749	10.783	ug/l # 36
49) 1,4-Dioxane	6.74	88	87	145.269	ug/l # 1
51) 4-Methyl-2-Pentanone	8.37	43	166	2.410	ug/l # 39
54) cis-1,3-Dichloropropene	7.42	75	215	1.066	ug/l # 42
55) 1,1,2-Trichloroethane	8.58	97	239	2.674	ug/l # 30
56) Ethyl methacrylate	8.75	69	158	1.556	ug/l # 1
58) 2-Chloroethyl Vinyl ether	7.81	63	163	15.714	ug/l 100
59) 2-Hexanone	9.58	43	243	4.810	ug/l # 27
64) Tetrachloroethene	8.34	164	73	1.603	ug/l # 1
65) Chlorobenzene	10.03	112	140	1.189	ug/l # 40
66) 1,1,1,2-Tetrachloroethane	10.04	131	62	1.206	ug/l # 9

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Misc : 5.22/5mL/MSVOA F/SOIL
ALS Vial : 42 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
HC-SOIL-3

Quant Time: Oct 03 02:34:30 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F100118S.M
Quant Title : SW846 8260
QLast Update : Tue Oct 02 11:42:56 2018
Response via : Initial Calibration

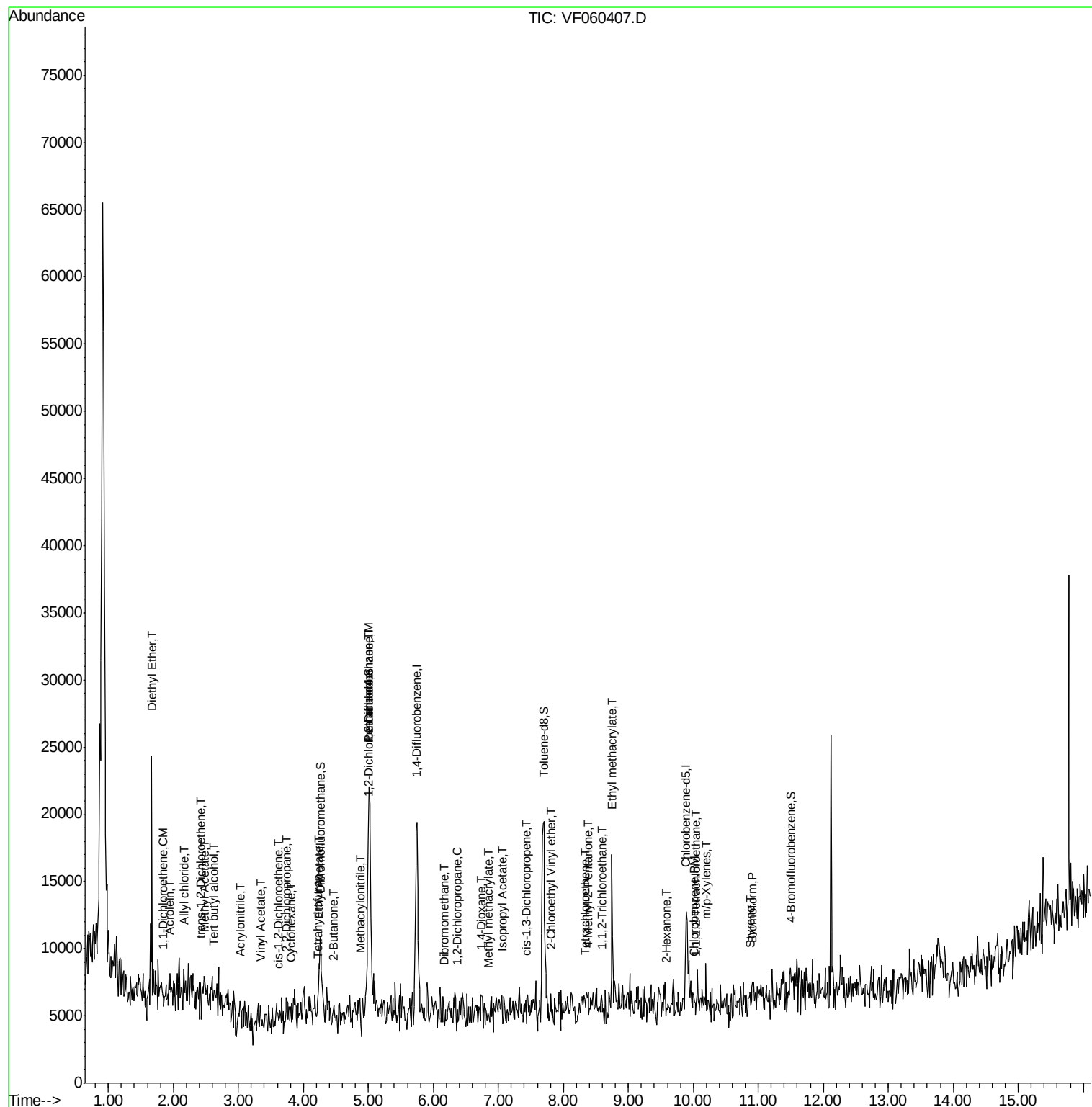
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) m/p-Xylenes	10.20	106	94	1.222	ug/l #	34
70) Styrene	10.88	104	190	1.593	ug/l #	29
71) Bromoform	10.89	173	70	2.558	ug/l #	32

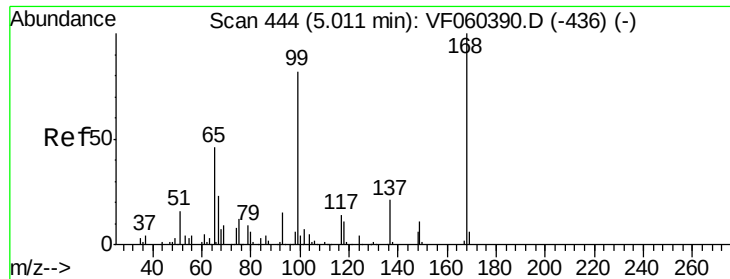
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF100218\
Data File : VF060407.D
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.02 min Scan# 445

Delta R.T. 0.01 min

Lab File: VF060407.D

Acq: 2 Oct 2018 17:32

Instrument :

MSVOA_F

ClientSampleId :

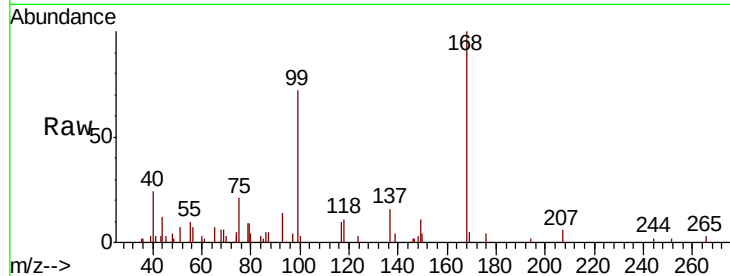
HC-SOIL-3

Tot Ion:168 Resp: 14867

Ion Ratio Lower Upper

168 100

99 72.2 65.3 97.9



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.02

4000

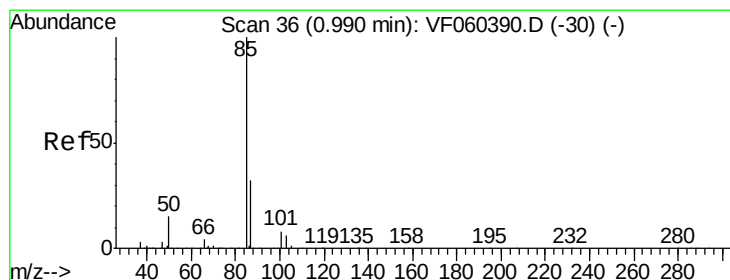
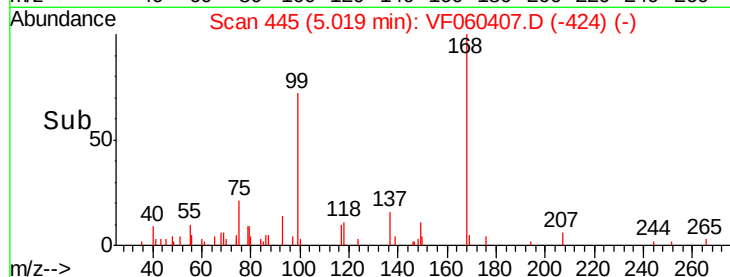
3000

2000

1000

0

Time--> 4.80 4.90 5.00 5.10 5.20



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.98 min Scan# 35

Delta R.T. -0.01 min

Lab File: VF060407.D

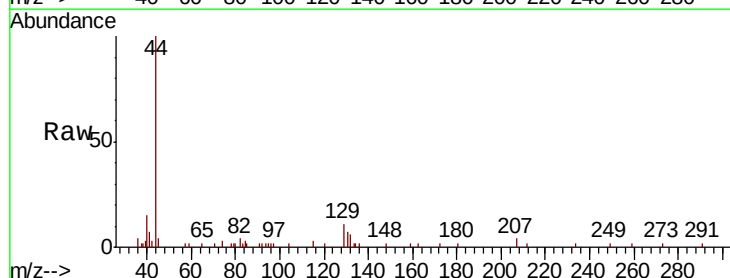
Acq: 2 Oct 2018 17:32

Tgt Ion: 85 Resp: 77

Ion Ratio Lower Upper

85 100

87 0.0 15.9 47.6#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

250

200

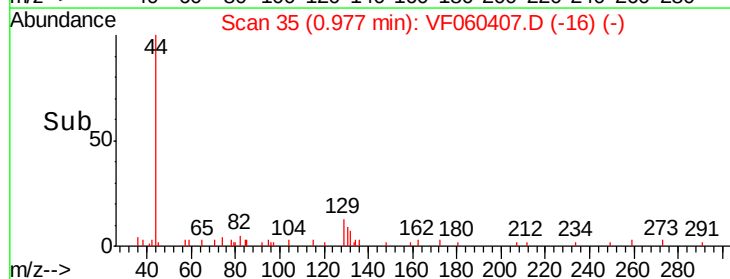
150

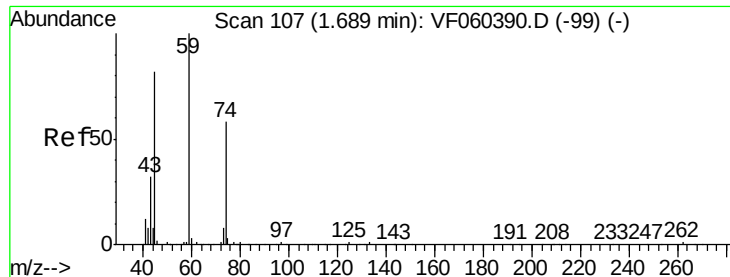
100

50

0

Time--> 0.96 0.98





#8

Diethyl Ether

Concen: 1.468 ug/l

RT: 1.67 min Scan# 105

Delta R.T. -0.02 min

Lab File: VF060407.D

Acq: 2 Oct 2018 17:32

Instrument :

MSVOA_F

ClientSampled :

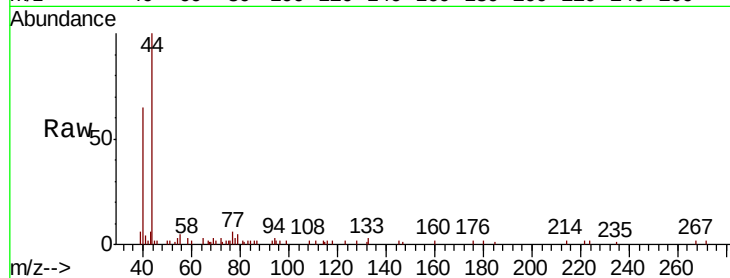
HC-SOIL-3

Tot Ion: 74 Resp: 98

Ion Ratio Lower Upper

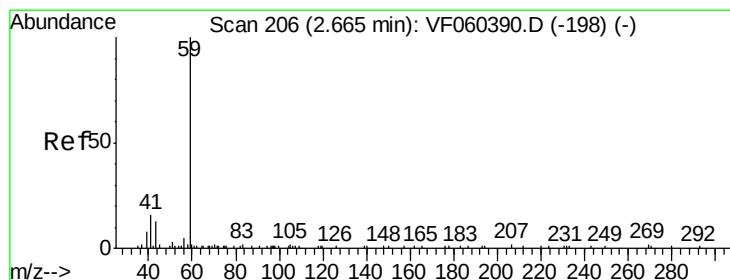
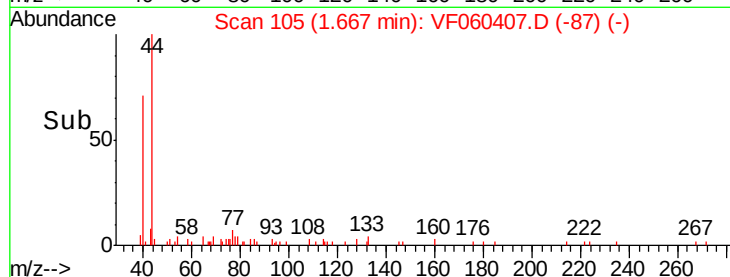
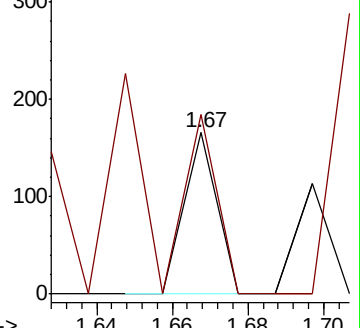
74 100

45 111.4 71.3 213.8



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0



#11

Tert butyl alcohol

Concen: 5.756 ug/l

RT: 2.63 min Scan# 203

Delta R.T. -0.03 min

Lab File: VF060407.D

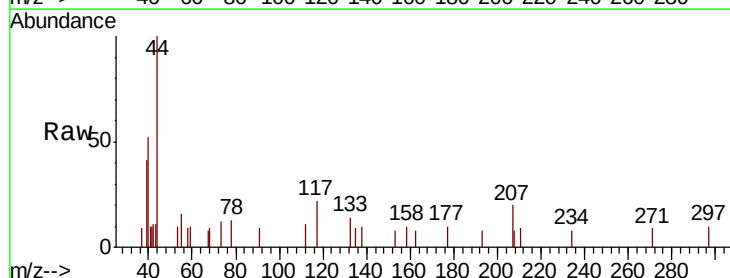
Acq: 2 Oct 2018 17:32

Tgt Ion: 59 Resp: 81

Ion Ratio Lower Upper

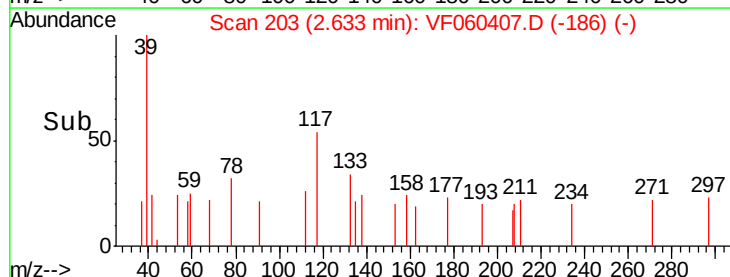
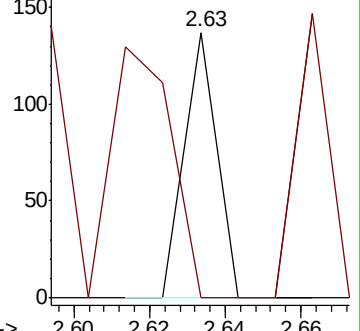
59 100

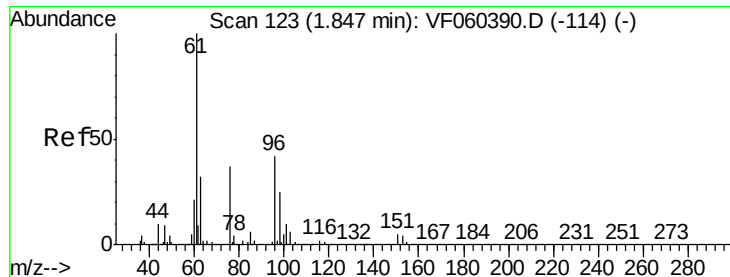
57 0.0 6.5 9.7#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0





#12

1,1-Dichloroethene

Concen: 2.218 ug/l

RT: 1.84 min Scan# 123

Delta R.T. -0.00 min

Lab File: VF060407.D

Acq: 2 Oct 2018 17:32

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-3

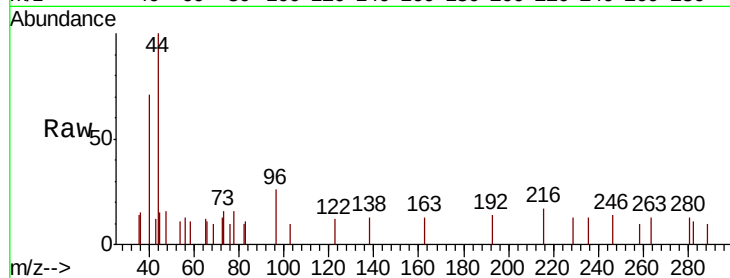
Tot Ion: 96 Resp: 400

Ion Ratio Lower Upper

96 100

61 0.0 189.4 284.0#

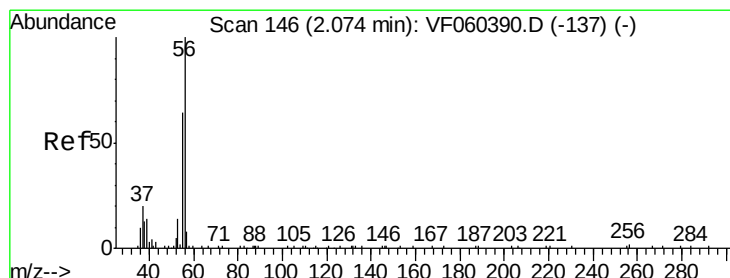
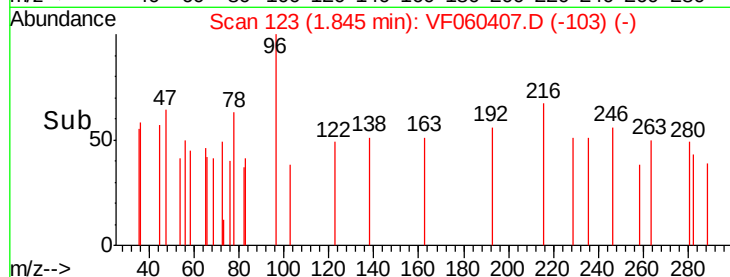
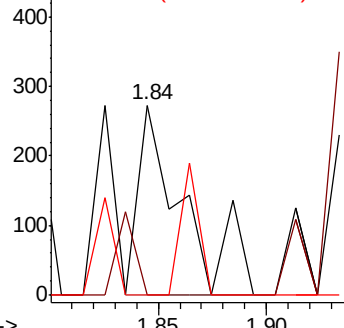
98 0.0 47.8 71.6#



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#13

Acrolein

Concen: 13.078 ug/l

RT: 1.93 min Scan# 132

Delta R.T. -0.14 min

Lab File: VF060407.D

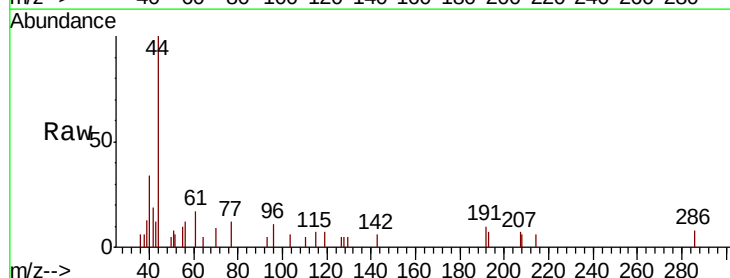
Acq: 2 Oct 2018 17:32

Tgt Ion: 56 Resp: 148

Ion Ratio Lower Upper

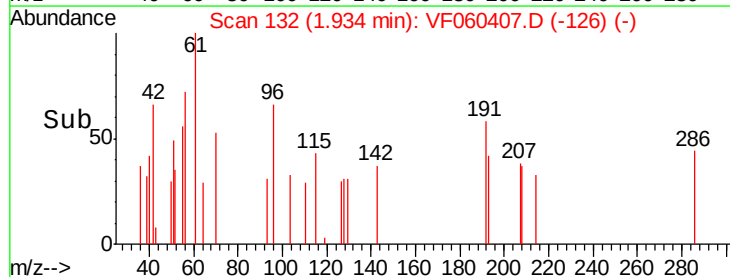
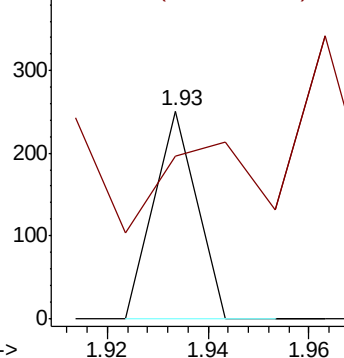
56 100

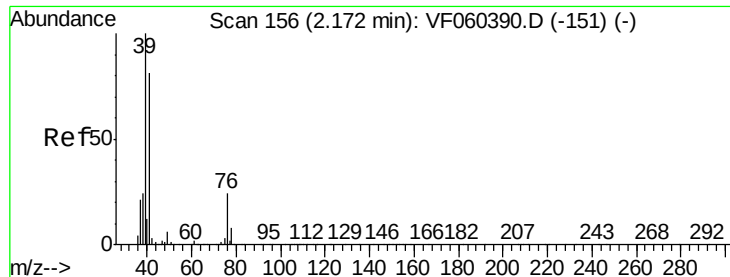
55 78.1 53.9 80.9



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0





#14

Allvl chloride

Concen: 2.834 ug/l

RT: 2.17 min Scan# 156

Delta R.T. -0.00 min

Lab File: VF060407.D

Acq: 2 Oct 2018 17:32

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-3

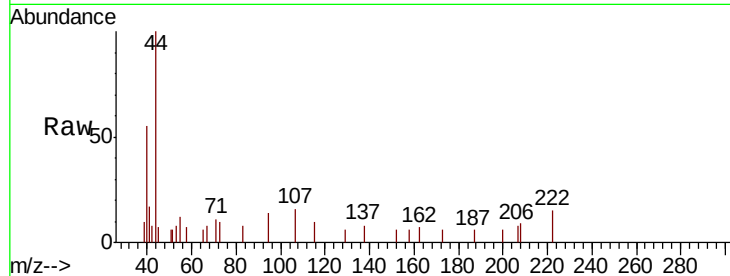
Tot Ion: 41 Resp: 819

Ion Ratio Lower Upper

41 100

39 56.9 98.3 147.5#

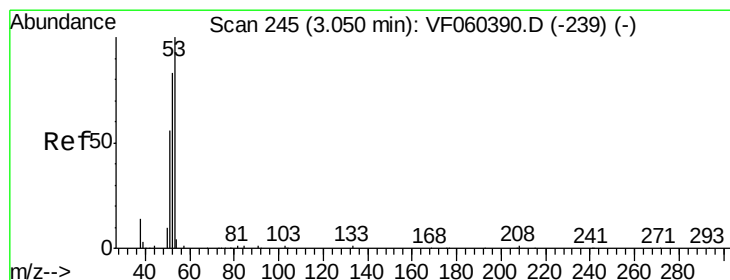
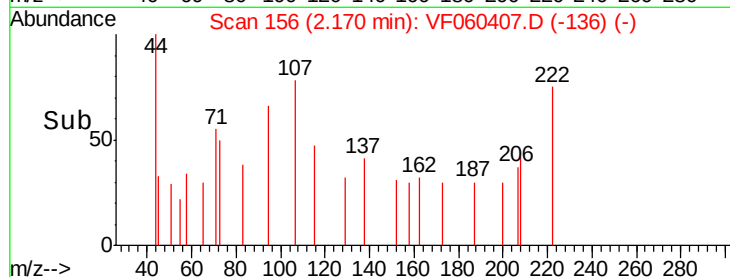
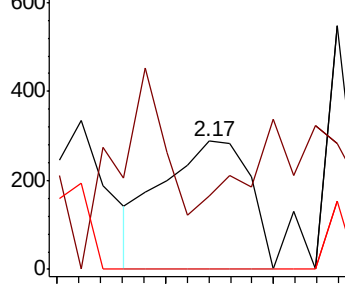
76 0.0 23.9 35.9#



Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0



#15

Acrylonitrile

Concen: 7.009 ug/l

RT: 3.03 min Scan# 243

Delta R.T. -0.02 min

Lab File: VF060407.D

Acq: 2 Oct 2018 17:32

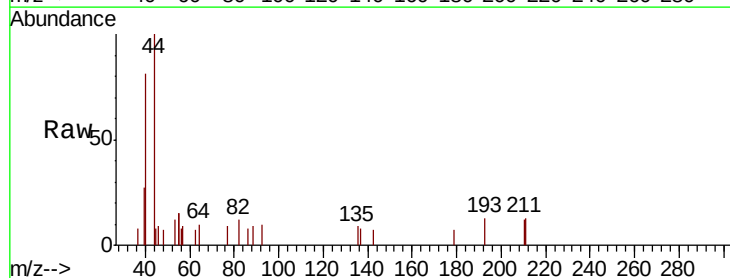
Tgt Ion: 53 Resp: 169

Ion Ratio Lower Upper

53 100

52 0.0 66.0 99.0#

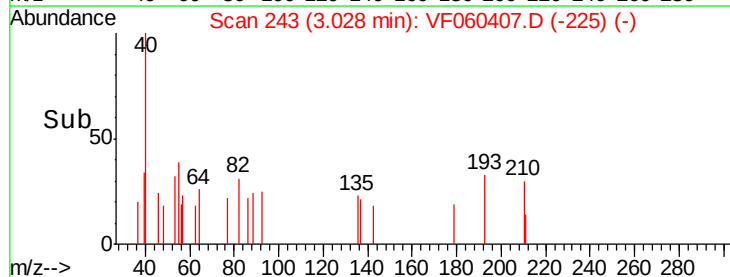
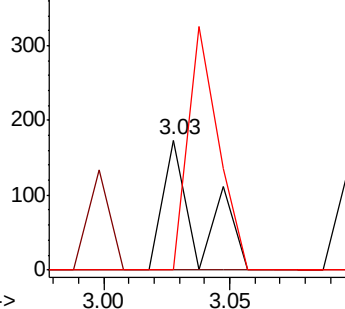
51 0.0 45.6 68.4#

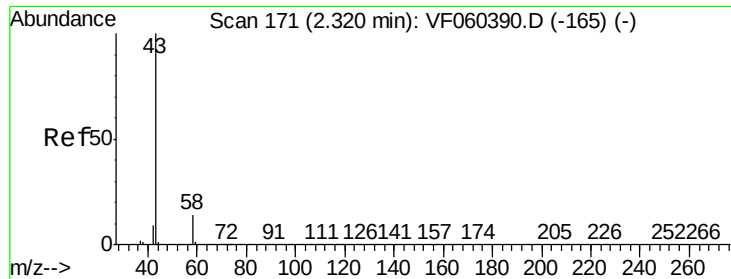


Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

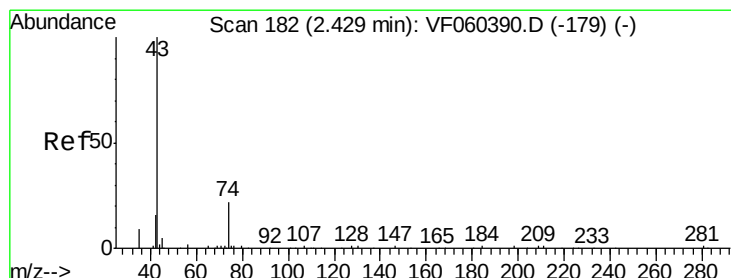
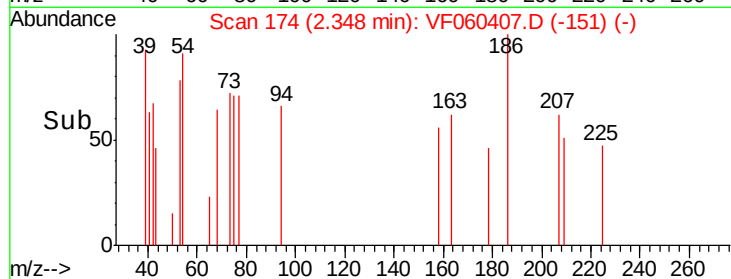
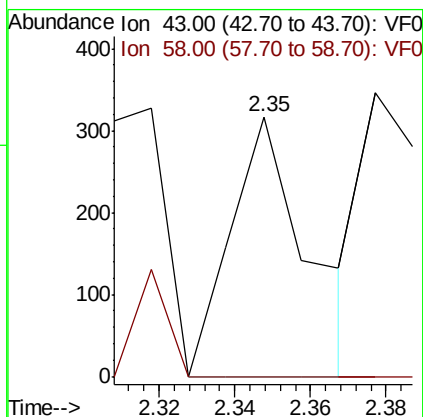
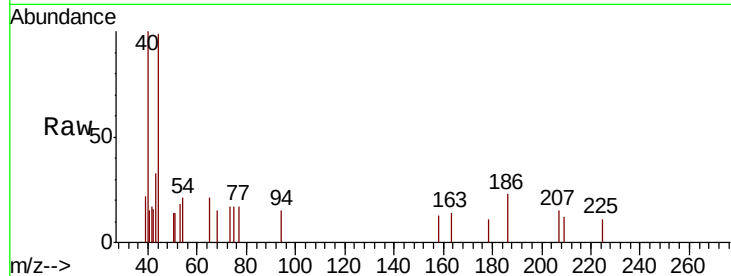




#16
Acetone
Concen: Below Cal
RT: 2.35 min Scan# 174
Delta R.T. 0.03 min
Lab File: VF060407.D
Acq: 2 Oct 2018 17:32

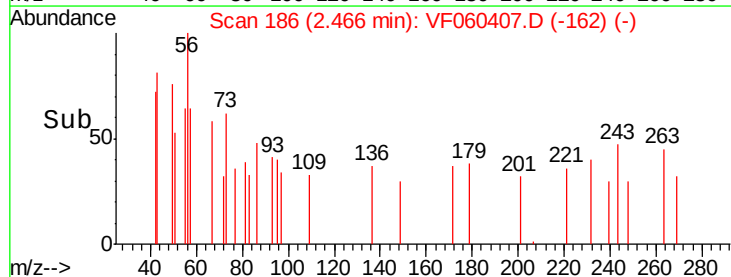
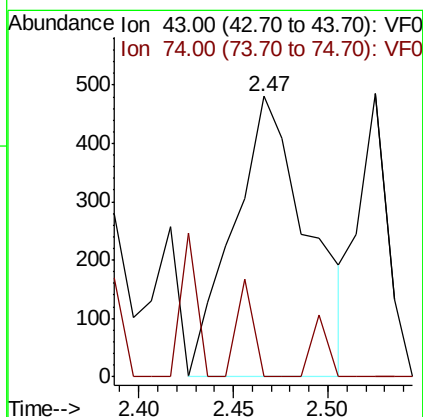
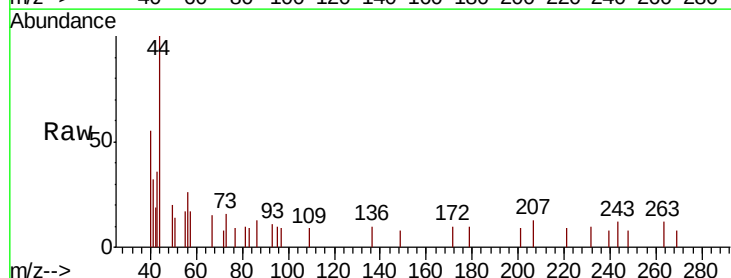
Instrument :
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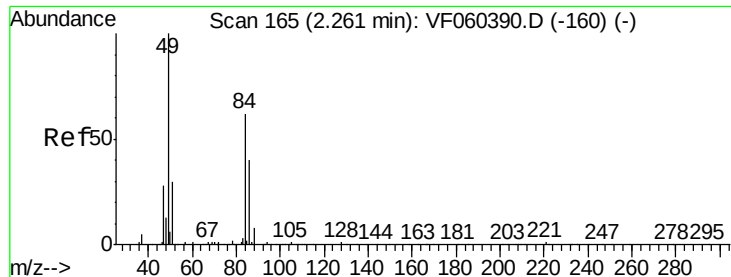
Tot Ion: 43 Resp: 442
Ion Ratio Lower Upper
43 100
58 0.0 11.2 16.8#



#18
Methyl Acetate
Concen: 13.728 ug/l
RT: 2.47 min Scan# 186
Delta R.T. 0.04 min
Lab File: VF060407.D
Acq: 2 Oct 2018 17:32

Tgt Ion: 43 Resp: 1313
Ion Ratio Lower Upper
43 100
74 0.0 15.8 23.8#

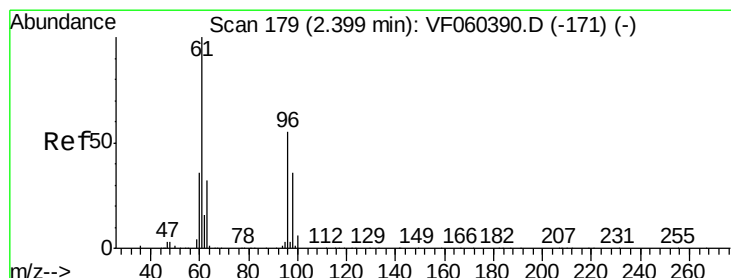
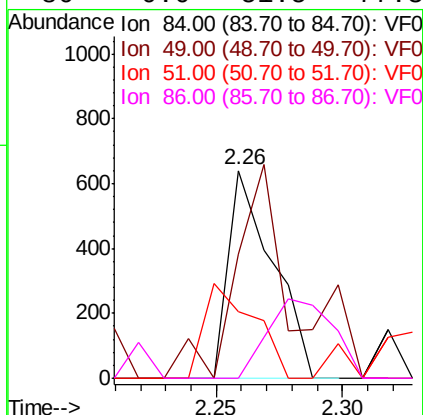
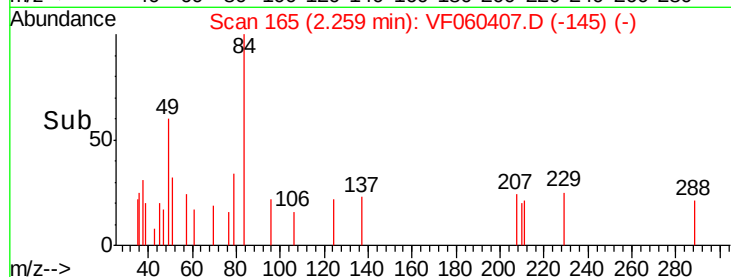
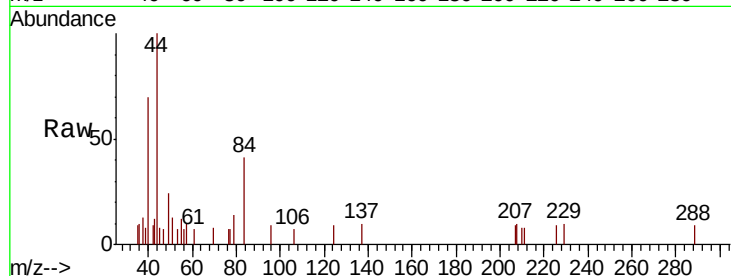




#20
Methylene Chloride
Concen: Below Cal
RT: 2.26 min Scan# 165
Delta R.T. -0.00 min
Lab File: VF060407.D
Acq: 2 Oct 2018 17:32

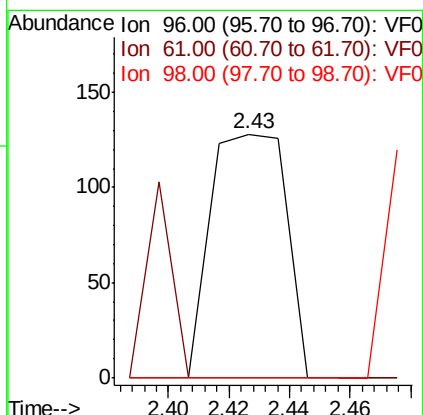
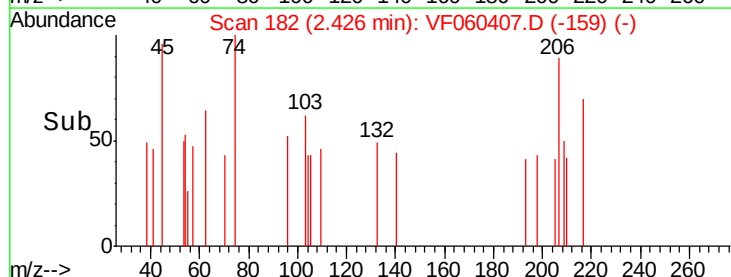
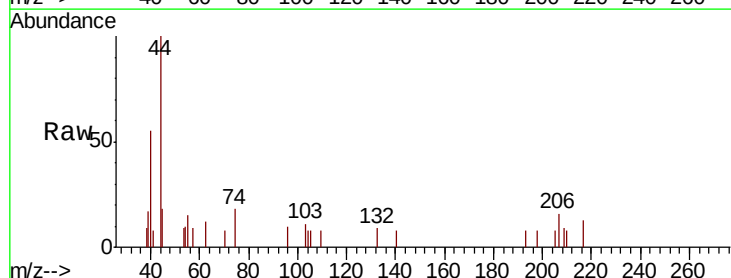
Instrument :
MSVOA_F
ClientSampleId :
HC-SOIL-3

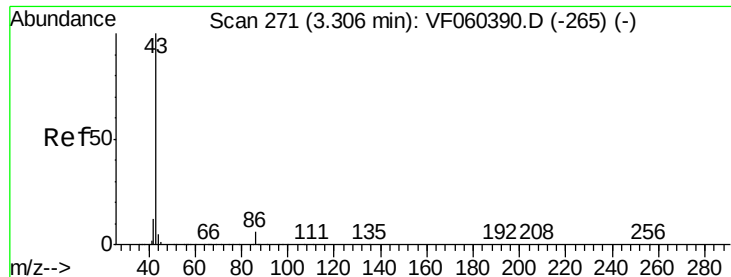
Tot Ion: 84 Resp: 784
Ion Ratio Lower Upper
84 100
49 59.8 130.2 195.2#
51 32.3 41.0 61.6#
86 0.0 51.5 77.3#



#21
trans-1,2-Dichloroethene
Concen: 1.238 ug/l
RT: 2.43 min Scan# 182
Delta R.T. 0.03 min
Lab File: VF060407.D
Acq: 2 Oct 2018 17:32

Tgt Ion: 96 Resp: 223
Ion Ratio Lower Upper
96 100
61 0.0 146.2 219.2#
98 0.0 52.6 78.8#





#23

Vinyl Acetate

Concen: 2.376 ug/l

RT: 3.33 min Scan# 274

Delta R.T. 0.03 min

Lab File: VF060407.D

Acq: 2 Oct 2018 17:32

Instrument :

MSVOA_F

ClientSampleId :

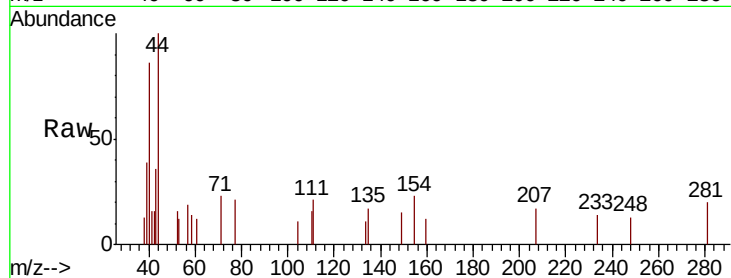
HC-SOIL-3

Tot Ion: 43 Resp: 495

Ion Ratio Lower Upper

43 100

86 0.0 5.1 7.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.33

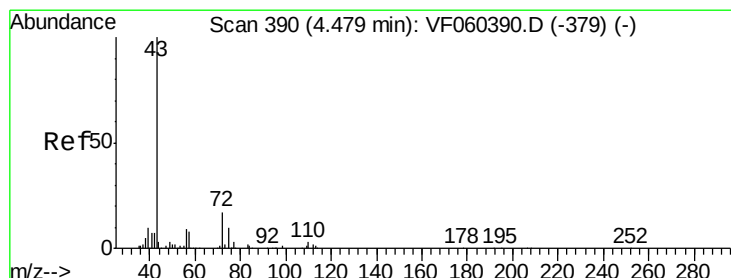
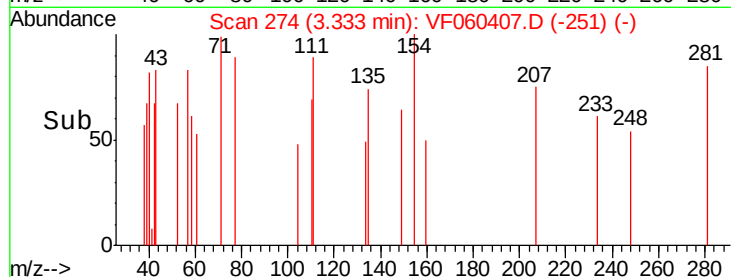
300

200

100

0

Time-->



#25

2-Butanone

Concen: 6.059 ug/l

RT: 4.47 min Scan# 389

Delta R.T. -0.01 min

Lab File: VF060407.D

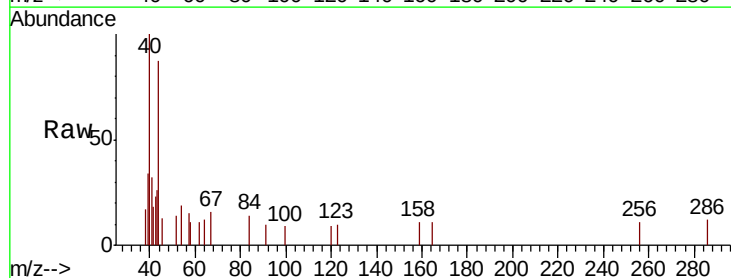
Acq: 2 Oct 2018 17:32

Tgt Ion: 43 Resp: 365

Ion Ratio Lower Upper

43 100

72 0.0 14.1 21.1#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

4.47

300

250

200

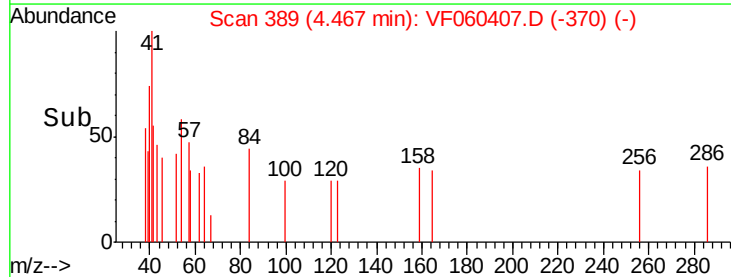
150

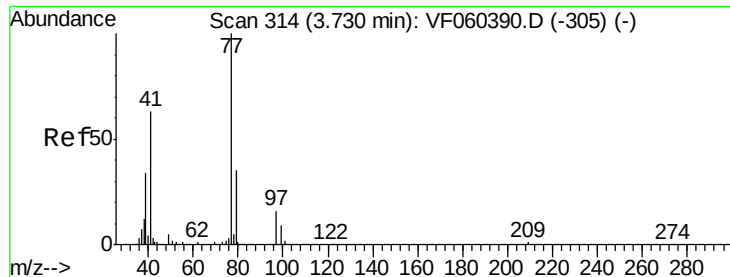
100

50

0

Time-->





#26

2,2-Dichloropropane

Concen: 1.170 ug/l

RT: 3.74 min Scan# 315

Delta R.T. 0.01 min

Lab File: VF060407.D

Acq: 2 Oct 2018 17:32

Instrument :

MSVOA_F

ClientSampleId :

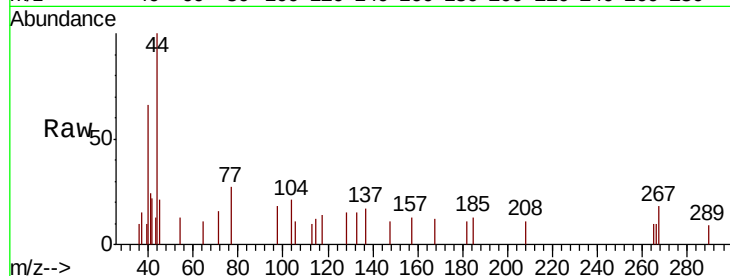
HC-SOIL-3

Tot Ion: 77 Resp: 235

Ion Ratio Lower Upper

77 100

97 65.9 8.3 25.1#



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0

3.74

300

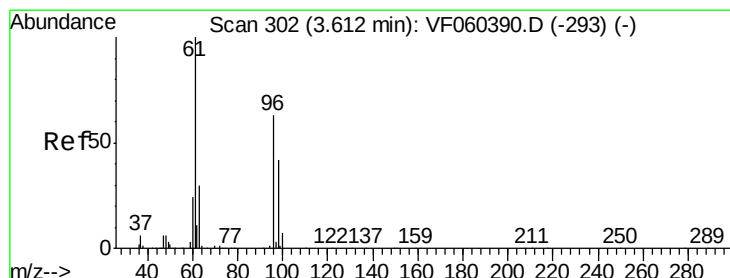
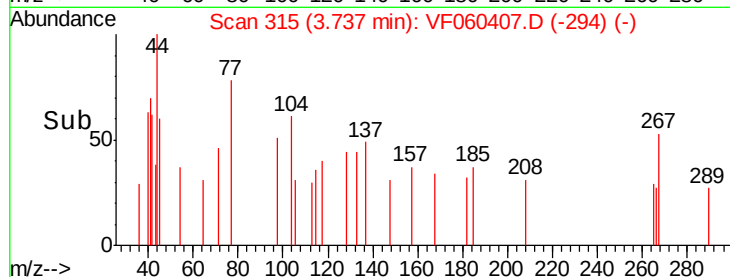
200

100

0

3.70 3.72 3.74 3.76

Time-->



#27

cis-1,2-Dichloroethene

Concen: 1.341 ug/l

RT: 3.62 min Scan# 303

Delta R.T. 0.01 min

Lab File: VF060407.D

Acq: 2 Oct 2018 17:32

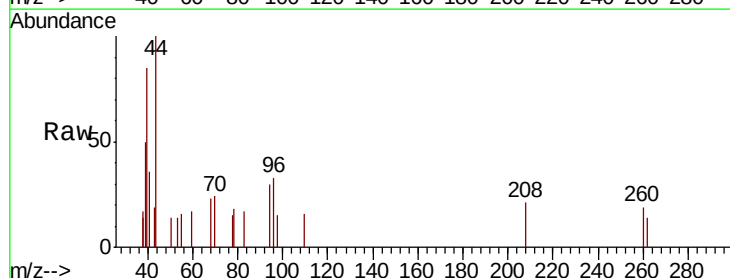
Tgt Ion: 96 Resp: 270

Ion Ratio Lower Upper

96 100

61 0.0 0.0 318.2

98 45.1 0.0 134.0



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

300

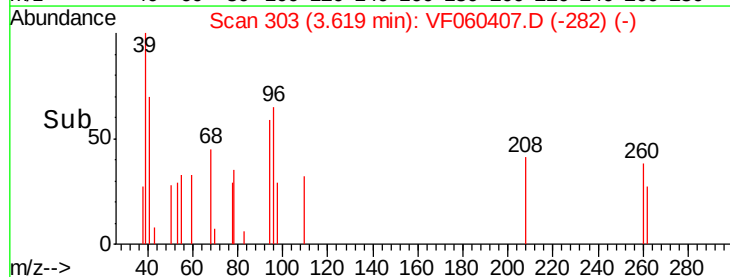
200

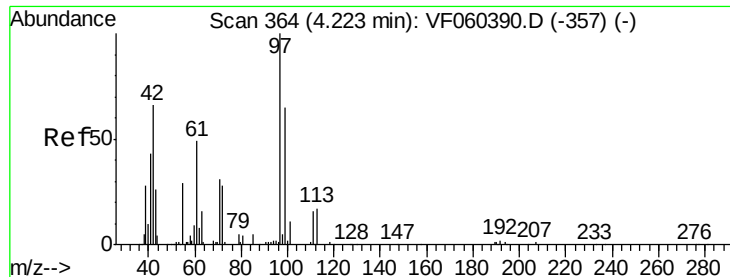
100

0

3.60 3.62 3.64 3.66

Time-->





#29

Tetrahydrofuran

Concen: 21.009 ug/l

RT: 4.21 min Scan# 363

Delta R.T. -0.01 min

Lab File: VF060407.D

Acq: 2 Oct 2018 17:32

Instrument :

MSVOA_F

ClientSampled :

HC-SOIL-3

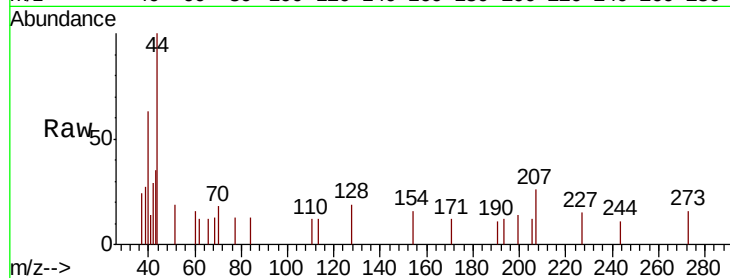
Tot Ion: 42 Resp: 572

Ion Ratio Lower Upper

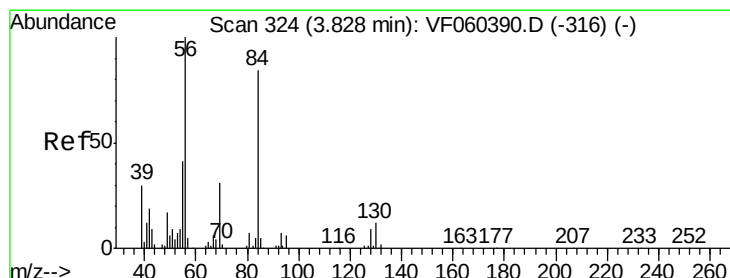
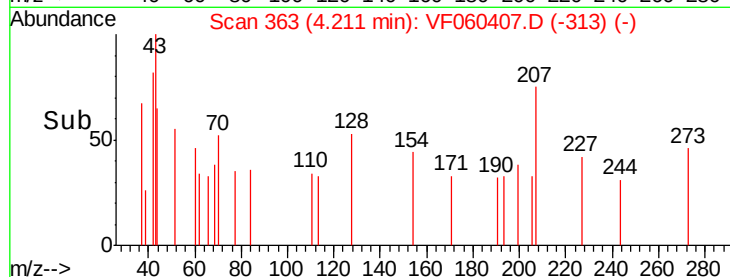
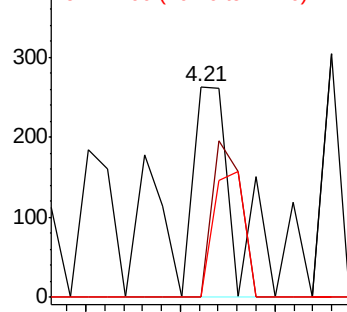
42 100

72 36.5 33.6 50.4

71 31.3 32.7 49.1#



Abundance Ion 42.00 (41.70 to 42.70): VF0
Ion 72.00 (71.70 to 72.70): VF0
Ion 71.00 (70.70 to 71.70): VF0



#31

Cyclohexane

Concen: 1.578 ug/l

RT: 3.80 min Scan# 321

Delta R.T. -0.03 min

Lab File: VF060407.D

Acq: 2 Oct 2018 17:32

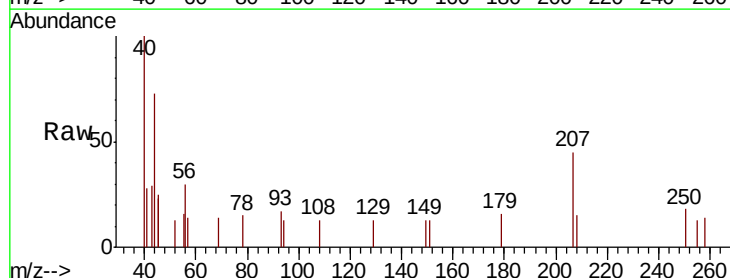
Tgt Ion: 56 Resp: 402

Ion Ratio Lower Upper

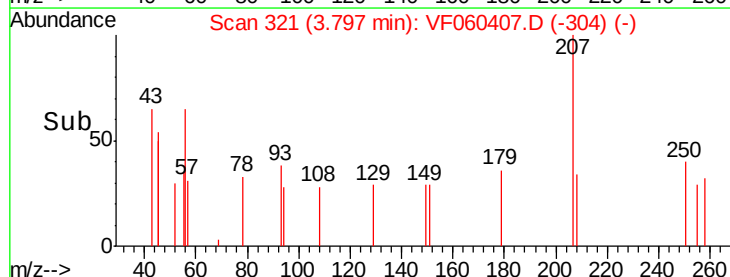
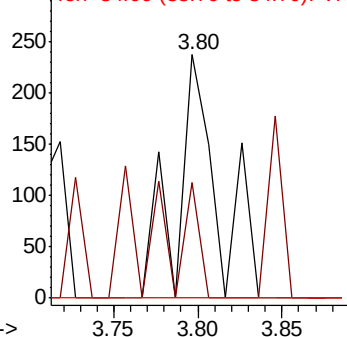
56 100

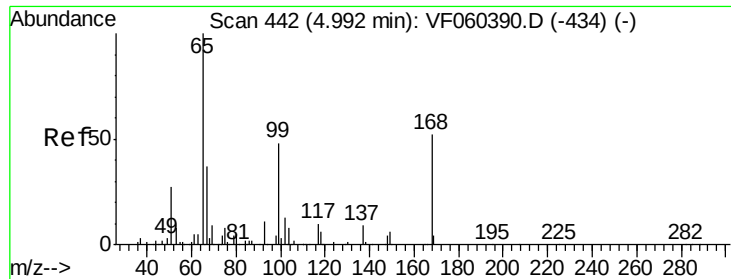
69 32.3 25.5 38.3

84 0.0 67.4 101.0#



Abundance Ion 56.00 (55.70 to 56.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 84.00 (83.70 to 84.70): VF0

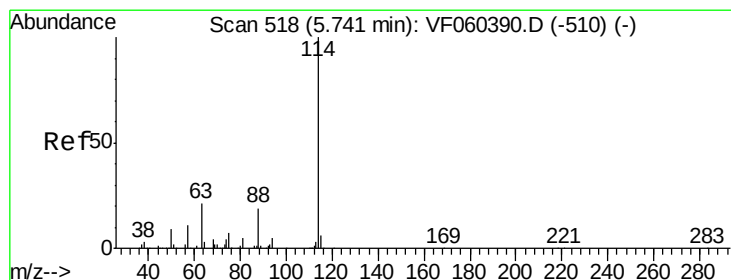
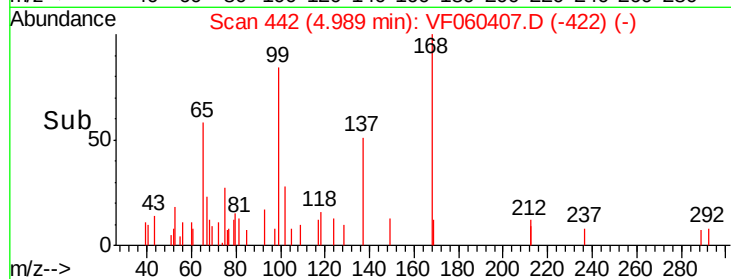
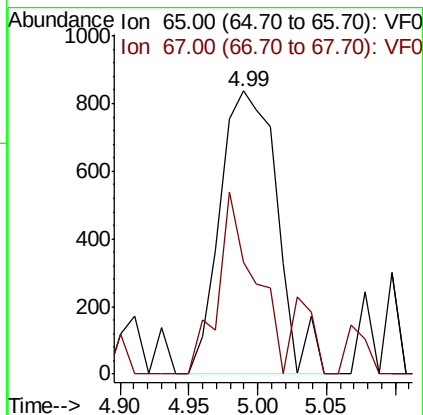
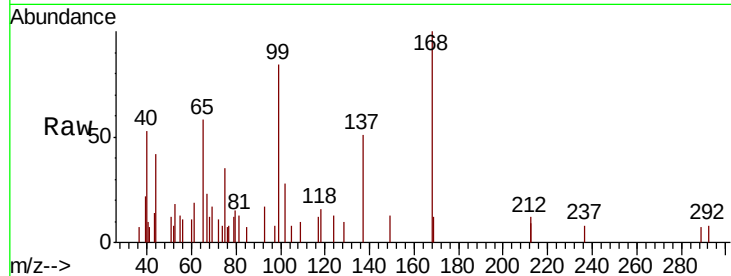




#33
 1,2-Dichloroethane-d4
 Concen: 10.377 ug/l
 RT: 4.99 min Scan# 442
 Delta R.T. -0.00 min
 Lab File: VF060407.D
 Acq: 2 Oct 2018 17:32

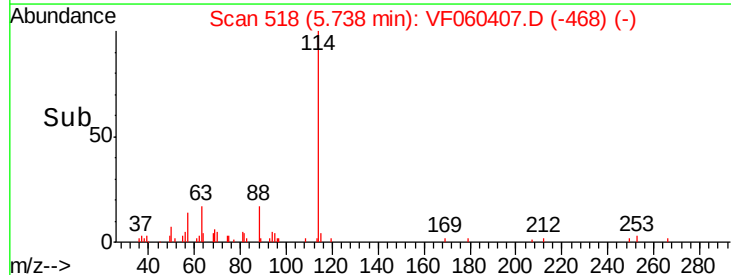
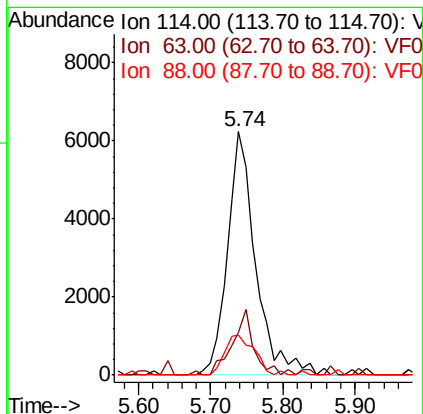
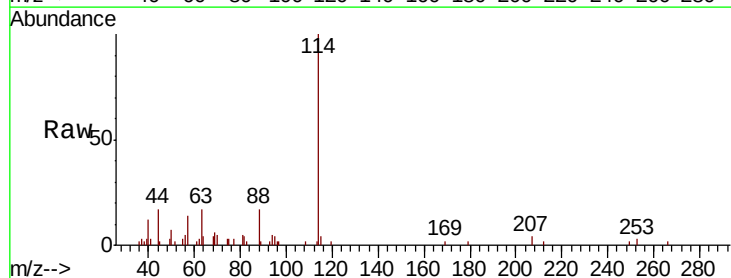
Instrument :
 MSVOA_F
 ClientSampleId :
 HC-SOIL-3

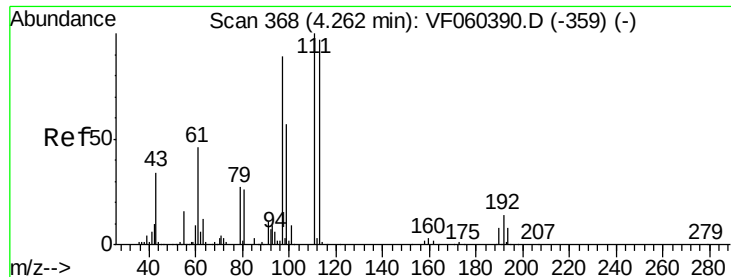
Tot Ion: 65 Resp: 2414
 Ion Ratio Lower Upper
 65 100
 67 39.5 0.0 89.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.74 min Scan# 518
 Delta R.T. -0.00 min
 Lab File: VF060407.D
 Acq: 2 Oct 2018 17:32

Tgt Ion: 114 Resp: 16959
 Ion Ratio Lower Upper
 114 100
 63 17.3 0.0 42.2
 88 16.6 0.0 38.8





#35

Dibromofluoromethane

Concen: 26.356 ug/l

RT: 4.26 min Scan# 368

Delta R.T. -0.00 min

Lab File: VF060407.D

Acq: 2 Oct 2018 17:32

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-3

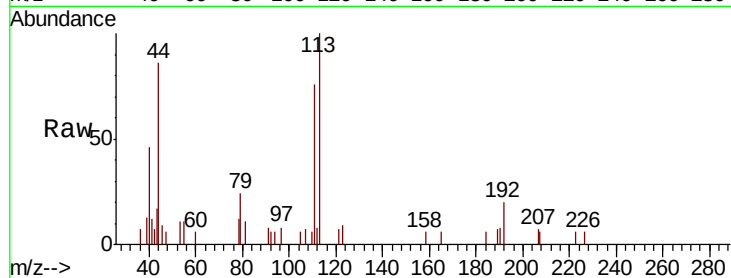
Tot Ion:113 Resp: 4199

Ion Ratio Lower Upper

113 100

111 75.9 82.3 123.5#

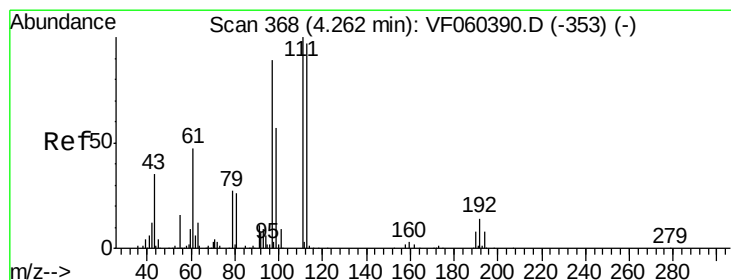
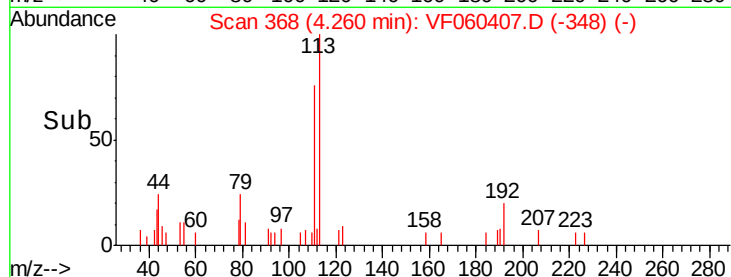
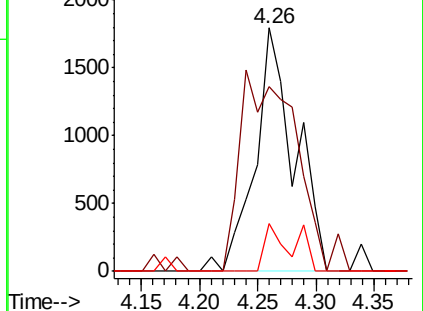
192 19.6 11.8 17.6#



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



#37

Ethyl Acetate

Concen: 8.418 ug/l

RT: 4.24 min Scan# 366

Delta R.T. -0.02 min

Lab File: VF060407.D

Acq: 2 Oct 2018 17:32

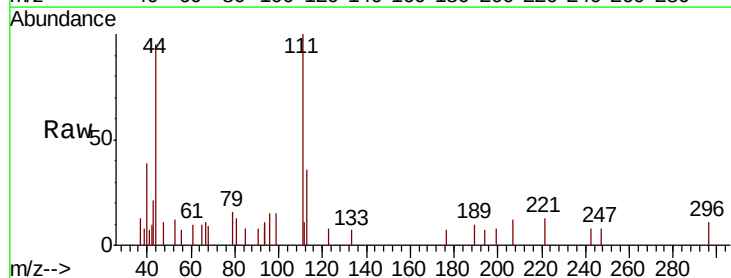
Tgt Ion: 43 Resp: 674

Ion Ratio Lower Upper

43 100

61 45.4 105.1 157.7#

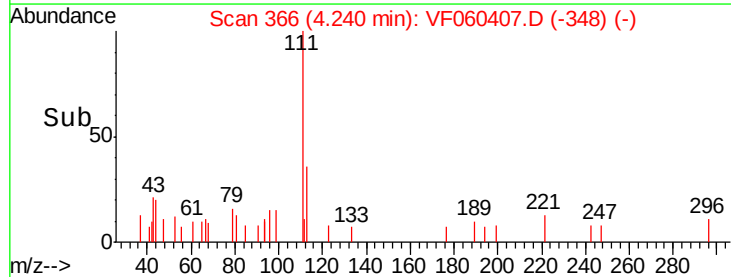
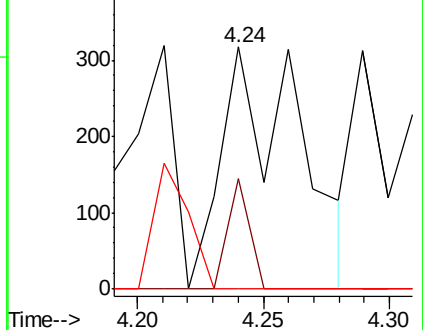
70 0.0 8.0 12.0#

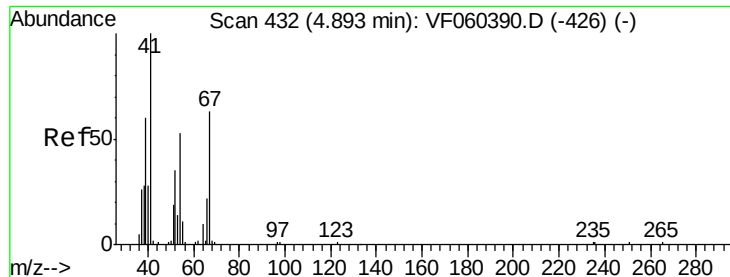


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0





#41

Methacrylonitrile

Concen: 7.585 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.02 min

Lab File: VF060407.D

Acq: 2 Oct 2018 17:32

Instrument :

MSVOA_F

ClientSampled :

HC-SOIL-3

Tot Ion: 41 Resp: 322

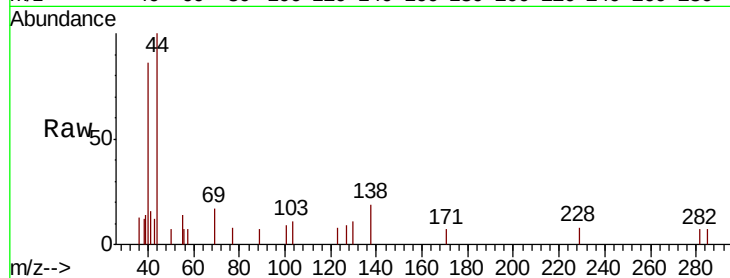
Ion Ratio Lower Upper

41 100

39 87.6 55.0 82.4#

67 0.0 49.6 74.4#

52 0.0 38.8 58.2#

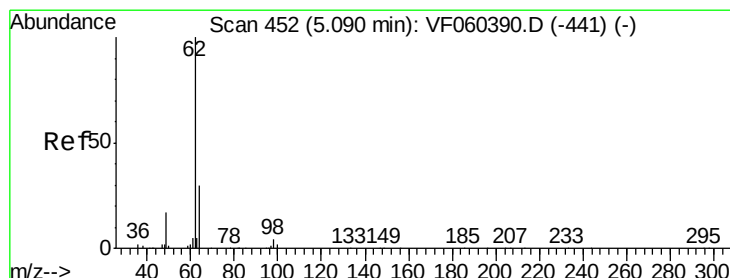
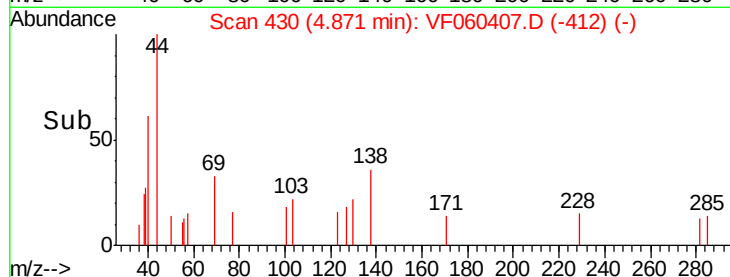
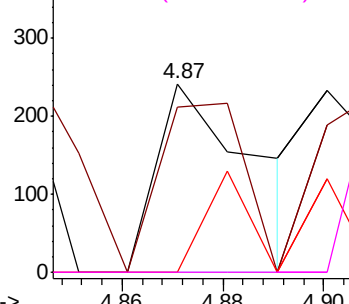


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#42

1,2-Dichloroethane

Concen: 1.909 ug/l

RT: 5.00 min Scan# 443

Delta R.T. -0.09 min

Lab File: VF060407.D

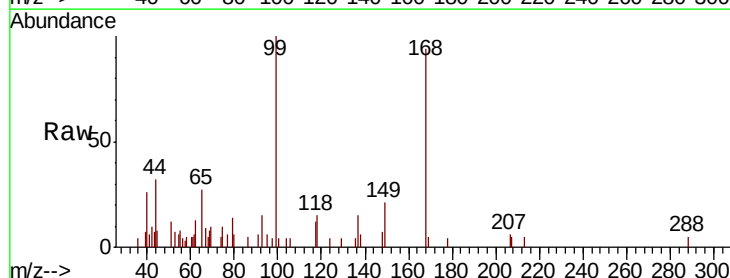
Acq: 2 Oct 2018 17:32

Tgt Ion: 62 Resp: 378

Ion Ratio Lower Upper

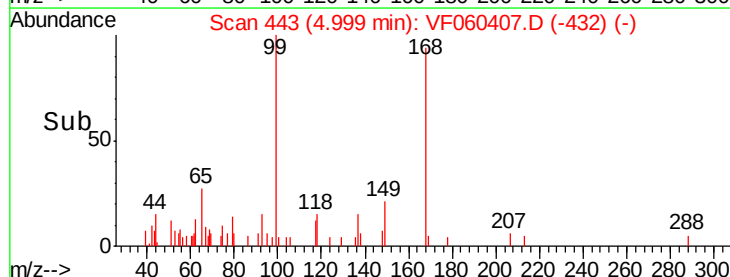
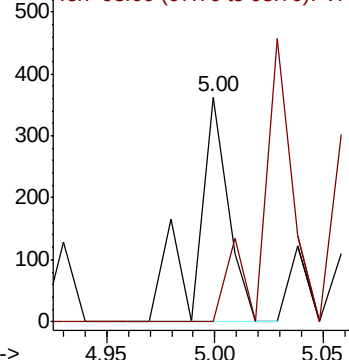
62 100

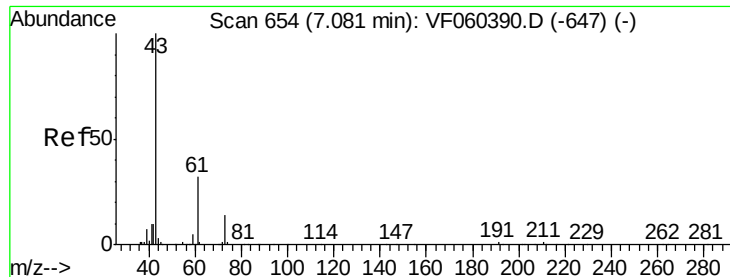
98 0.0 0.0 11.2



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#43

Isopropyl Acetate

Concen: 2.852 ug/l

RT: 7.07 min Scan# 653

Delta R.T. -0.01 min

Lab File: VF060407.D

Acq: 2 Oct 2018 17:32

Instrument :

MSVOA_F

ClientSampled :

HC-SOIL-3

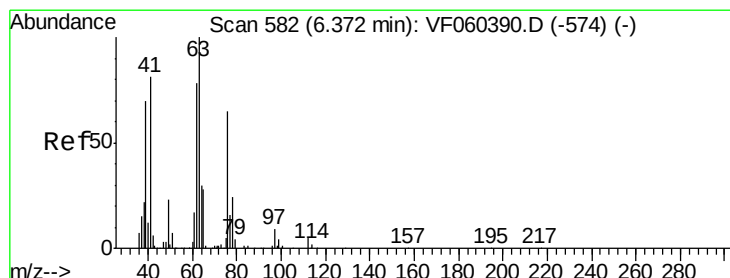
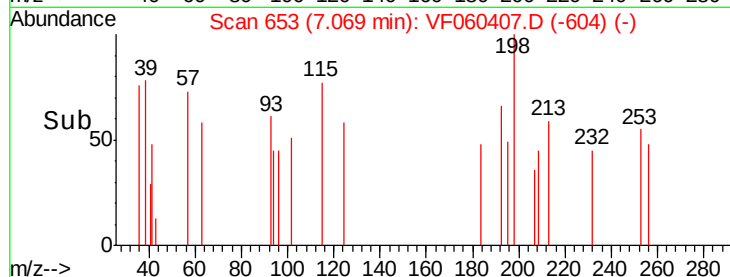
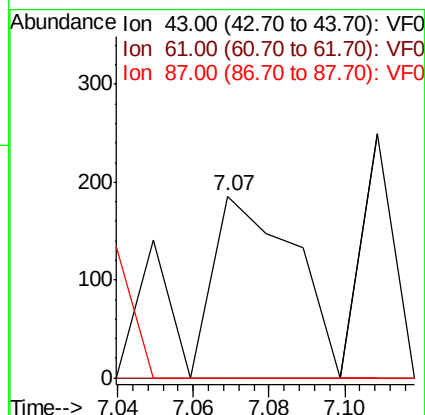
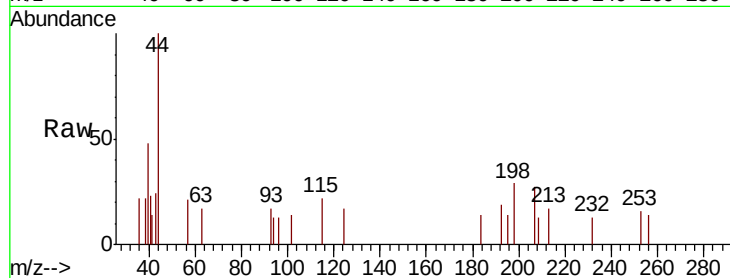
Tot Ion: 43 Resp: 276

Ion Ratio Lower Upper

43 100

61 0.0 25.4 38.2#

87 0.0 0.3 0.5#



#45

1,2-Dichloropropane

Concen: 1.285 ug/l

RT: 6.37 min Scan# 582

Delta R.T. -0.00 min

Lab File: VF060407.D

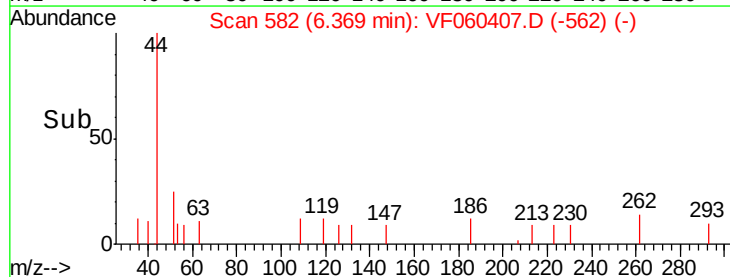
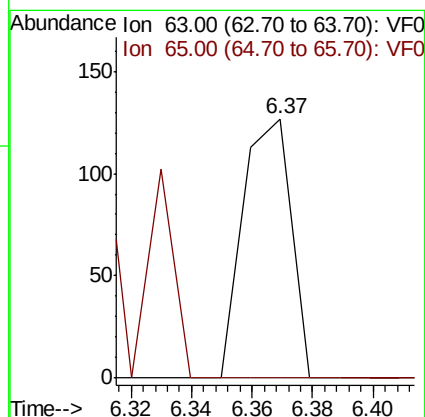
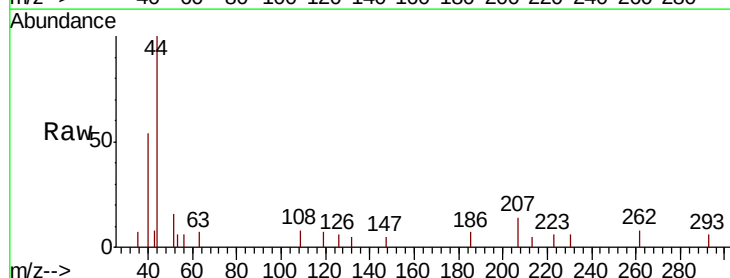
Acq: 2 Oct 2018 17:32

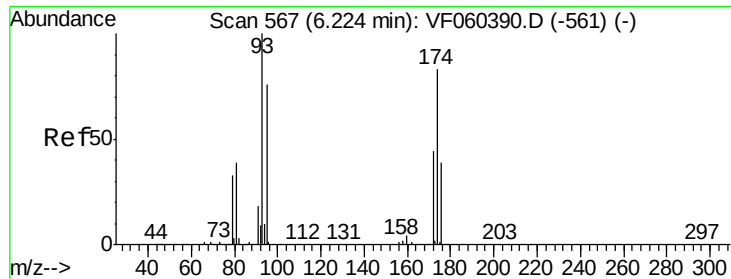
Tgt Ion: 63 Resp: 142

Ion Ratio Lower Upper

63 100

65 0.0 22.7 34.1#

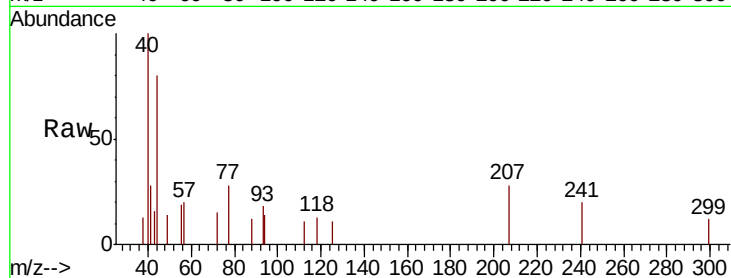




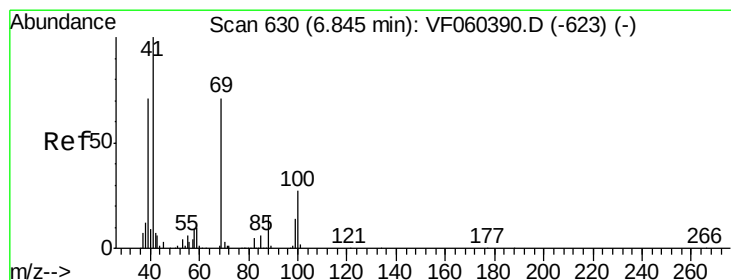
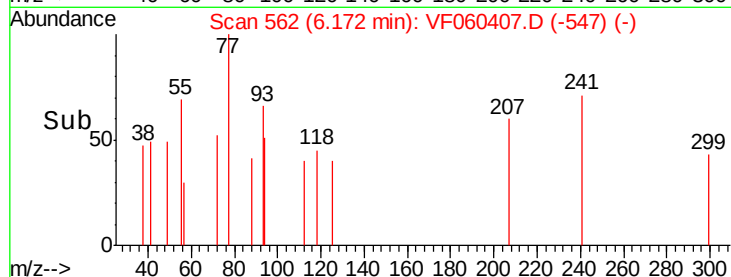
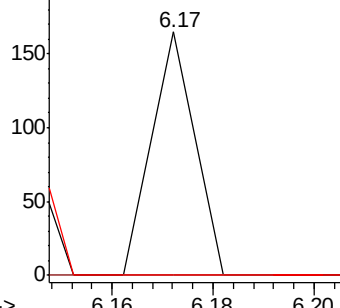
#46
Dibromomethane
Concen: 1.103 ug/l
RT: 6.17 min Scan# 562
Delta R.T. -0.05 min
Lab File: VF060407.D
Acq: 2 Oct 2018 17:32

Instrument :
MSVOA_F
ClientSampleId :
HC-SOIL-3

Tot Ion: 93 Resp: 98
Ion Ratio Lower Upper
93 100
95 0.0 61.1 91.7#
174 0.0 66.7 100.1#

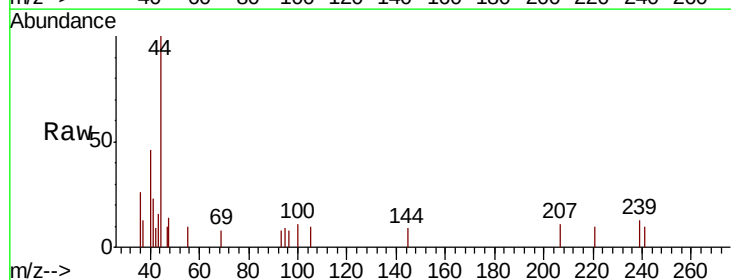


Abundance Ion 93.00 (92.70 to 93.70): VF0
Ion 95.00 (94.70 to 95.70): VF0
Ion 174.00 (173.70 to 174.70): V

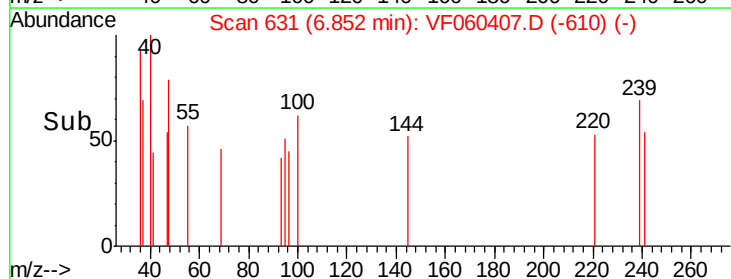
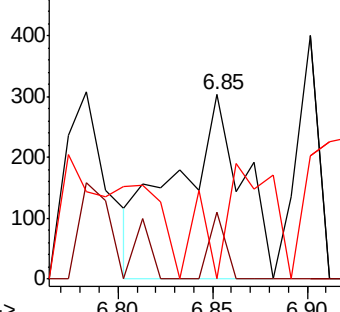


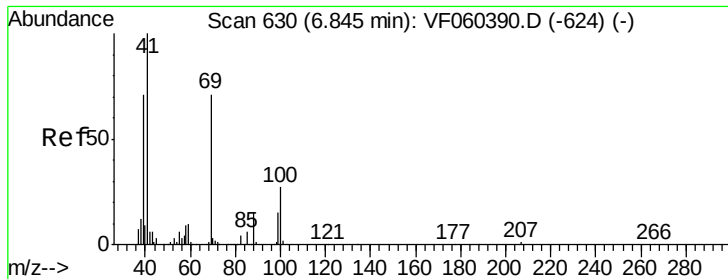
#48
Methyl methacrylate
Concen: 10.783 ug/l
RT: 6.85 min Scan# 631
Delta R.T. 0.01 min
Lab File: VF060407.D
Acq: 2 Oct 2018 17:32

Tgt Ion: 41 Resp: 749
Ion Ratio Lower Upper
41 100
69 36.6 56.3 84.5#
39 0.0 56.9 85.3#



Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 145.269 ug/l

RT: 6.74 min Scan# 620

Delta R.T. -0.10 min

Lab File: VF060407.D

Acq: 2 Oct 2018 17:32

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-3

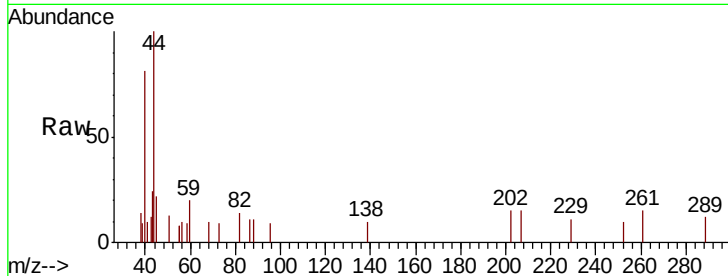
Tot Ion: 88 Resp: 87

Ion Ratio Lower Upper

88 100

43 220.4 38.3 57.5#

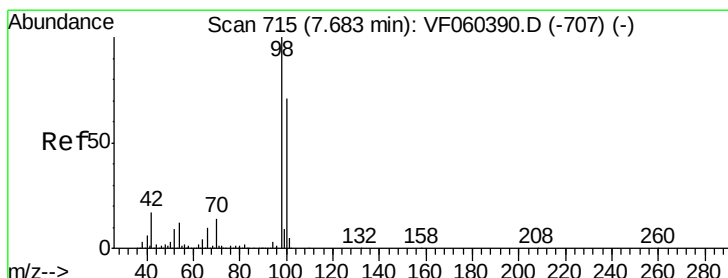
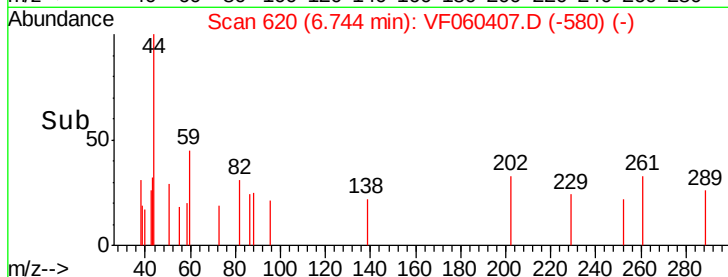
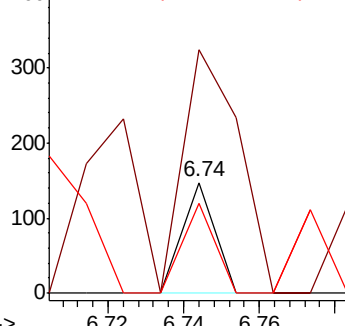
58 81.0 47.4 71.2#



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: 34.546 ug/l

RT: 7.69 min Scan# 716

Delta R.T. 0.01 min

Lab File: VF060407.D

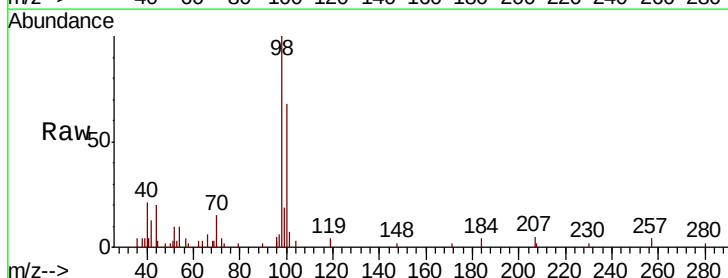
Acq: 2 Oct 2018 17:32

Tgt Ion: 98 Resp: 13555

Ion Ratio Lower Upper

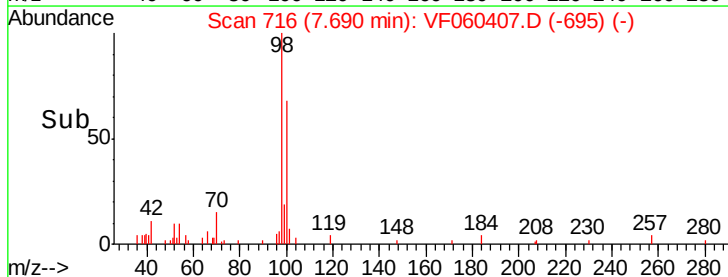
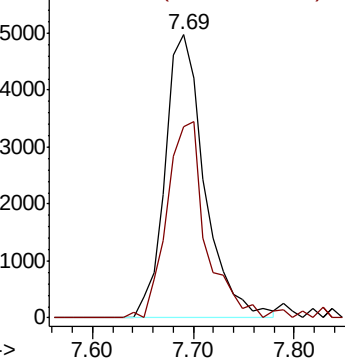
98 100

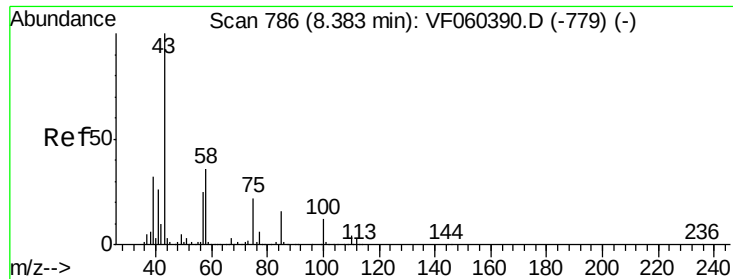
100 67.7 56.5 84.7



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 2.410 ug/l

RT: 8.37 min Scan# 785

Delta R.T. -0.01 min

Lab File: VF060407.D

Acq: 2 Oct 2018 17:32

Instrument :

MSVOA_F

ClientSampleId :

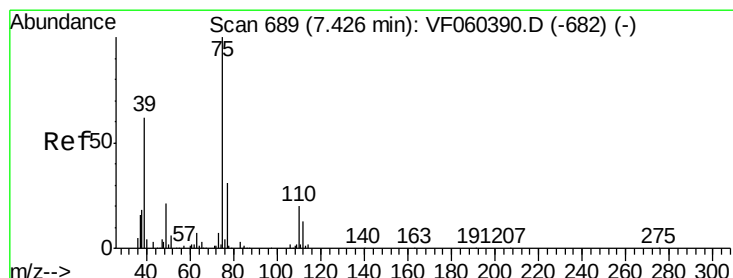
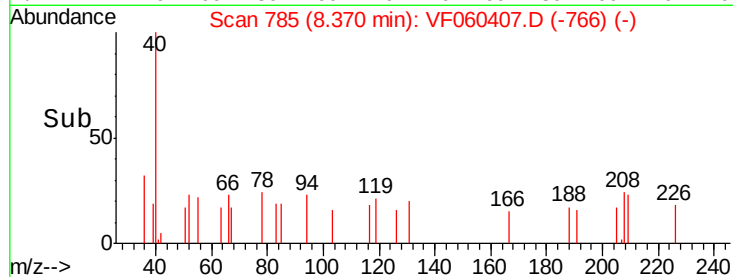
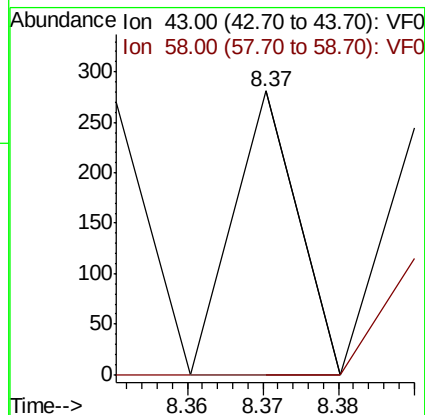
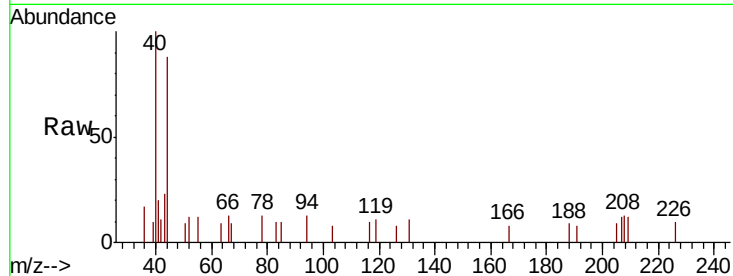
HC-SOIL-3

Tot Ion: 43 Resp: 166

Ion Ratio Lower Upper

43 100

58 0.0 28.5 42.7#



#54

cis-1,3-Dichloropropene

Concen: 1.066 ug/l

RT: 7.42 min Scan# 689

Delta R.T. -0.00 min

Lab File: VF060407.D

Acq: 2 Oct 2018 17:32

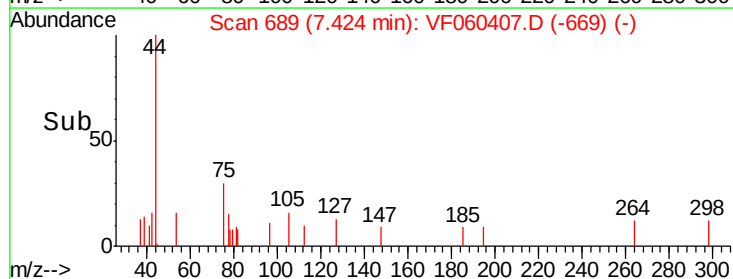
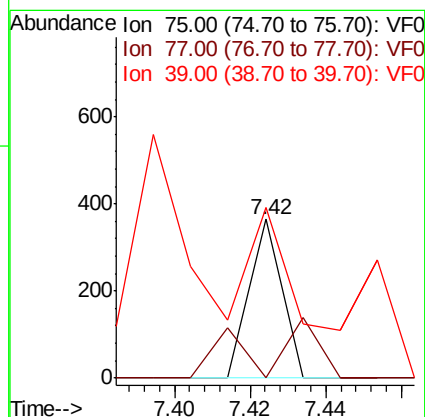
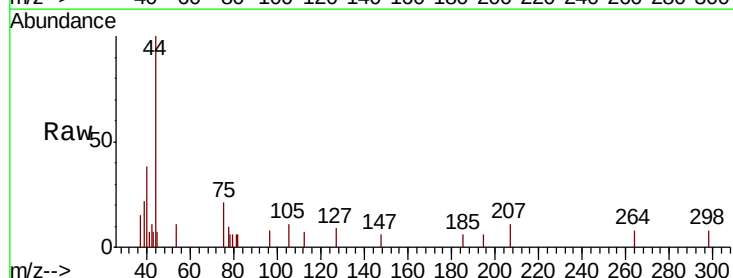
Tgt Ion: 75 Resp: 215

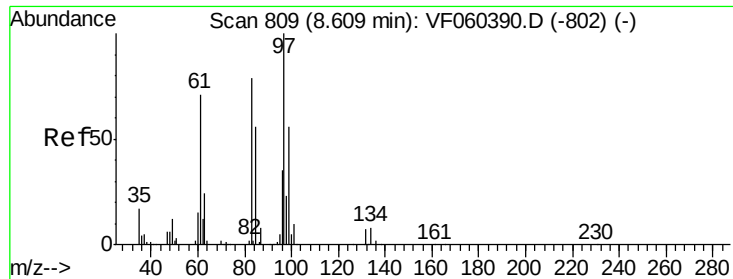
Ion Ratio Lower Upper

75 100

77 0.0 25.2 37.8#

39 107.7 49.7 74.5#





#55

1,1,2-Trichloroethane

Concen: 2.674 ug/l

RT: 8.58 min Scan# 806

Delta R.T. -0.03 min

Lab File: VF060407.D

Acq: 2 Oct 2018 17:32

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-3

Tot Ion: 97 Resp: 239

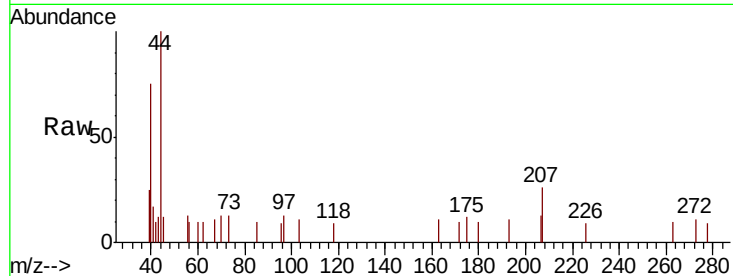
Ion Ratio Lower Upper

97 100

83 0.0 63.4 95.0#

85 81.0 44.5 66.7#

99 0.0 45.1 67.7#

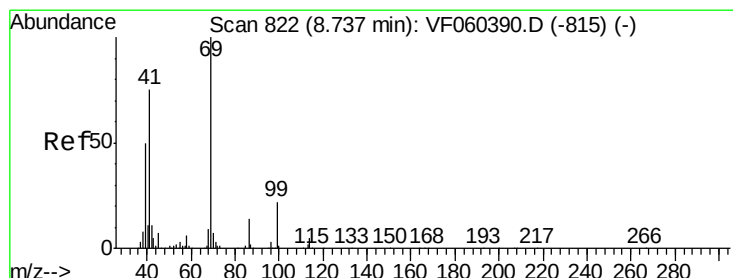
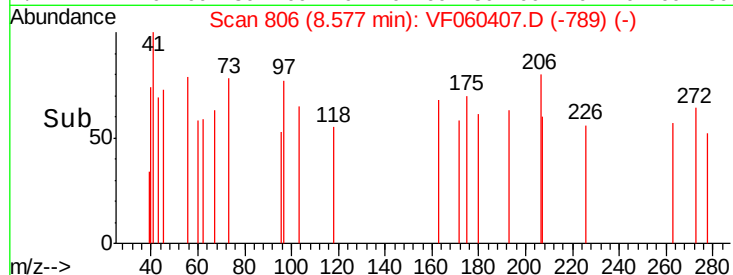
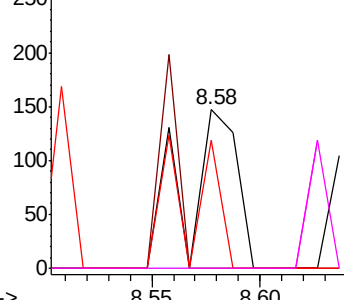


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 1.556 ug/l

RT: 8.75 min Scan# 824

Delta R.T. 0.02 min

Lab File: VF060407.D

Acq: 2 Oct 2018 17:32

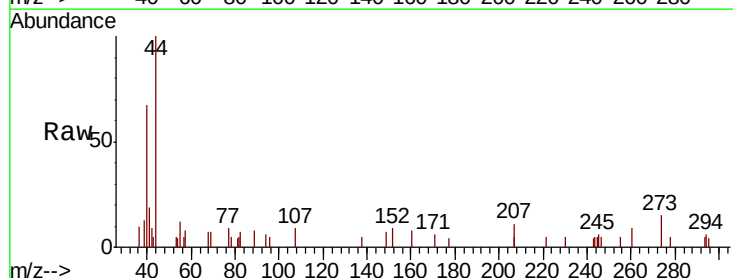
Tgt Ion: 69 Resp: 158

Ion Ratio Lower Upper

69 100

41 292.3 60.2 90.4#

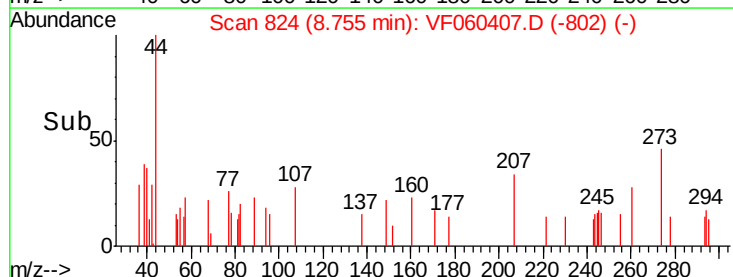
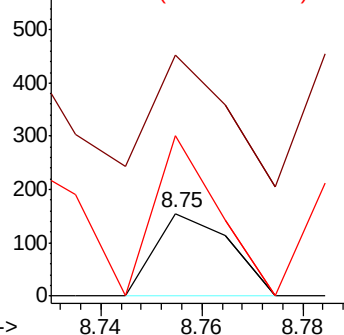
39 194.2 40.2 60.2#

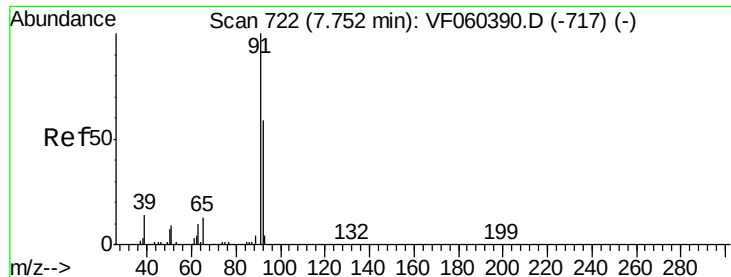


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#58

2-Chloroethyl Vinyl ether

Concen: 15.714 ug/l

RT: 7.81 min Scan# 728

Delta R.T. 0.06 min

Lab File: VF060407.D

Acq: 2 Oct 2018 17:32

Instrument :

MSVOA_F

ClientSampled :

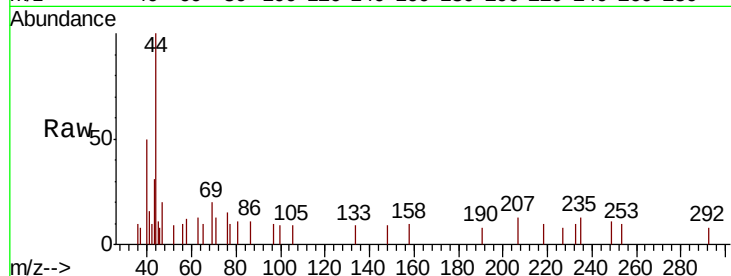
HC-SOIL-3

Tot Ion: 63 Resp: 163

Ion Ratio Lower Upper

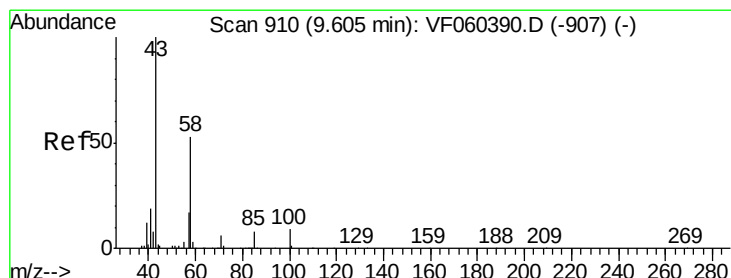
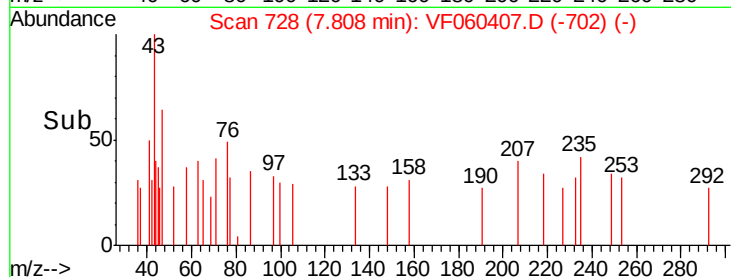
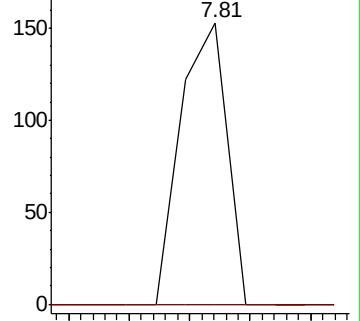
63 100

106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V



#59

2-Hexanone

Concen: 4.810 ug/l

RT: 9.58 min Scan# 908

Delta R.T. -0.02 min

Lab File: VF060407.D

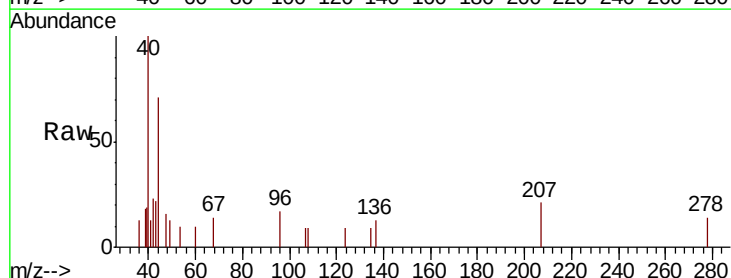
Acq: 2 Oct 2018 17:32

Tgt Ion: 43 Resp: 243

Ion Ratio Lower Upper

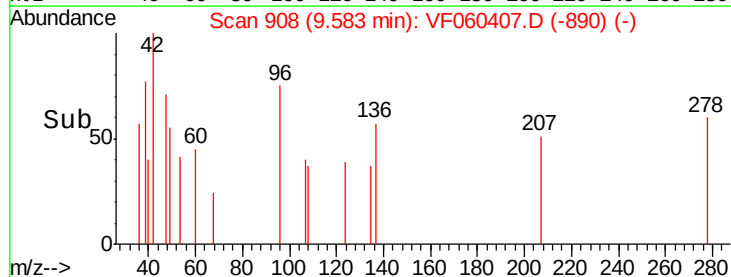
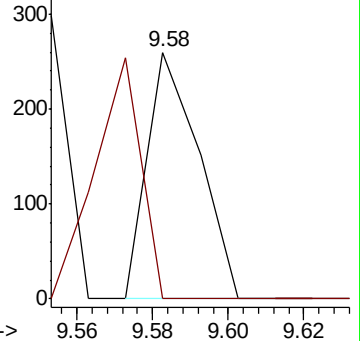
43 100

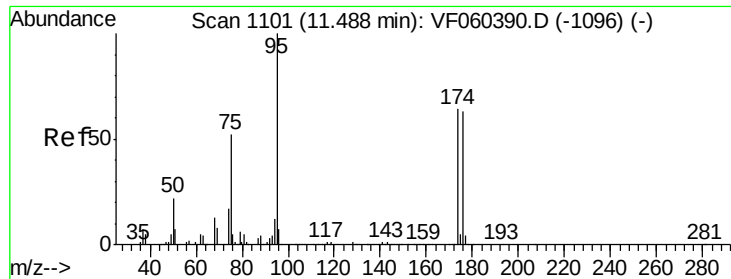
58 0.0 25.6 76.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 3.455 ug/l

RT: 11.50 min Scan# 1102

Delta R.T. 0.01 min

Lab File: VF060407.D

Acq: 2 Oct 2018 17:32

Instrument :

MSVOA_F

ClientSampled :

HC-SOIL-3

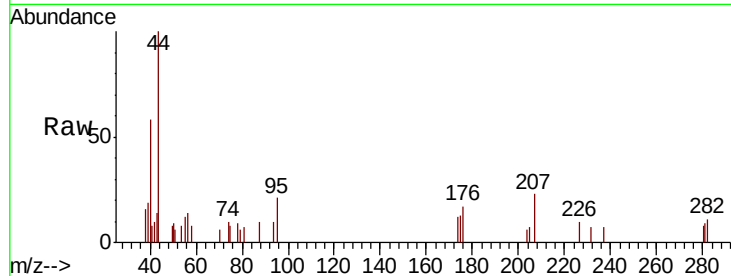
Tot Ion: 95 Resp: 619

Ion Ratio Lower Upper

95 100

174 57.4 0.0 129.0

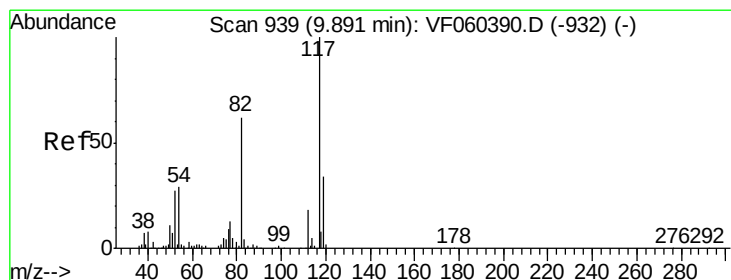
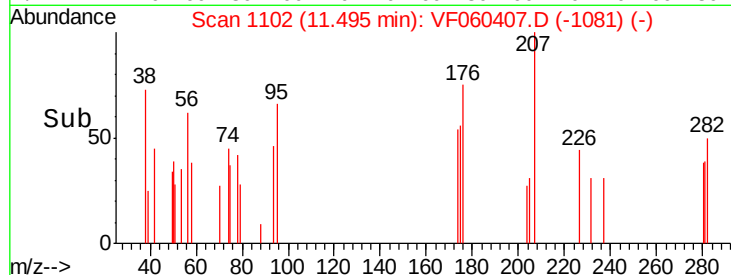
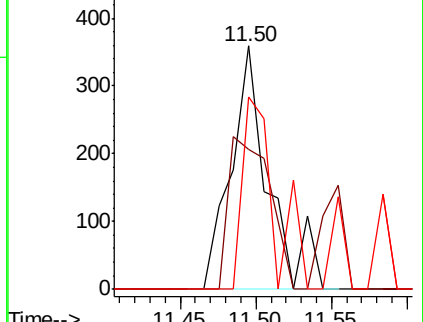
176 79.1 0.0 125.6



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.89 min Scan# 939

Delta R.T. -0.00 min

Lab File: VF060407.D

Acq: 2 Oct 2018 17:32

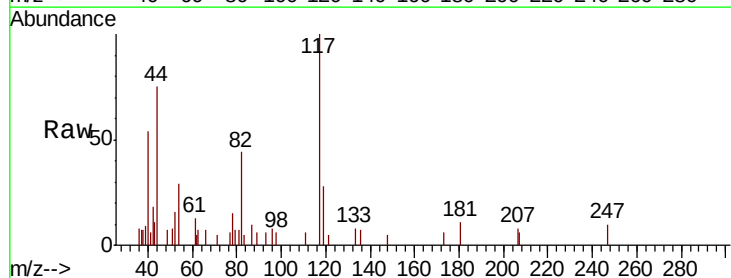
Tgt Ion: 117 Resp: 5730

Ion Ratio Lower Upper

117 100

82 44.0 49.5 74.3#

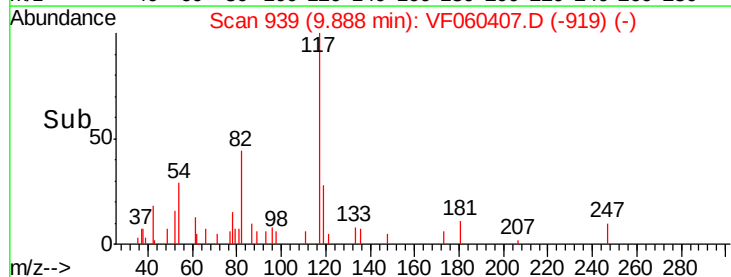
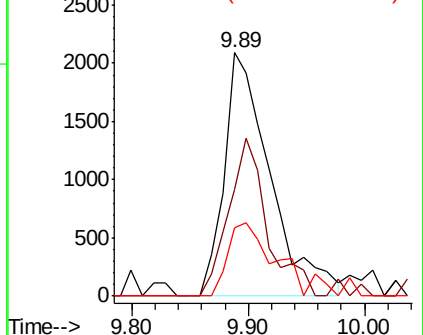
119 28.2 27.0 40.6

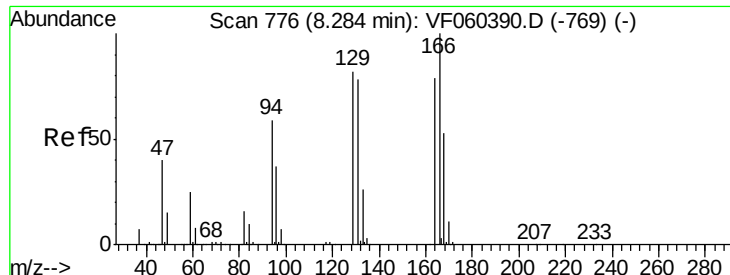


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V





#64

Tetrachloroethene

Concen: 1.603 ug/l

RT: 8.34 min Scan# 782

Delta R.T. 0.06 min

Lab File: VF060407.D

Acq: 2 Oct 2018 17:32

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-3

Tot Ion:164 Resp: 73

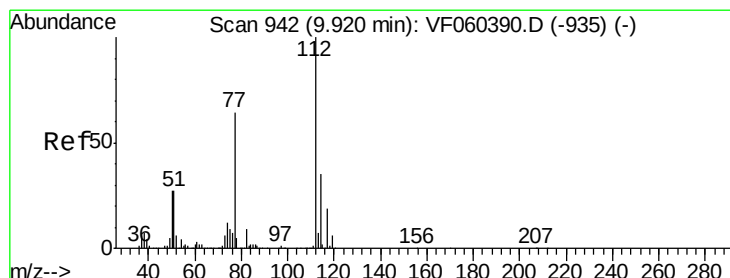
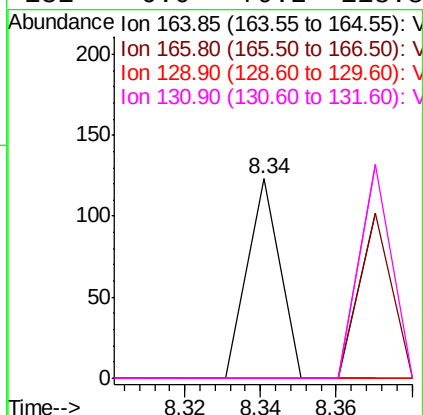
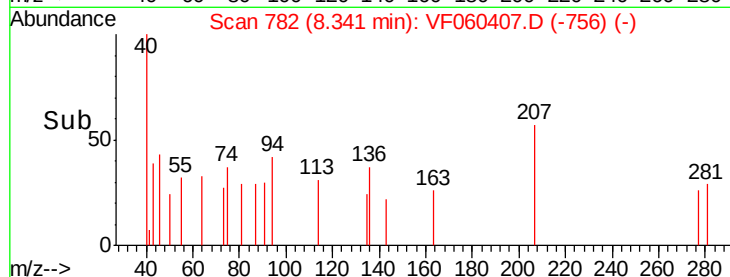
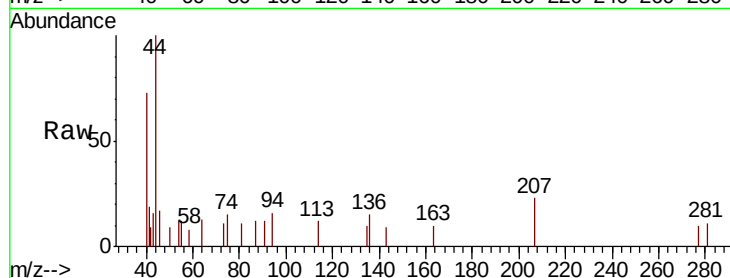
Ion Ratio Lower Upper

164 100

166 0.0 101.0 151.6#

129 0.0 82.5 123.7#

131 0.0 79.2 118.8#



#65

Chlorobenzene

Concen: 1.189 ug/l

RT: 10.03 min Scan# 953

Delta R.T. 0.11 min

Lab File: VF060407.D

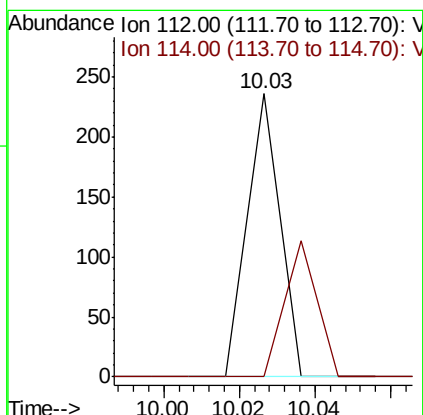
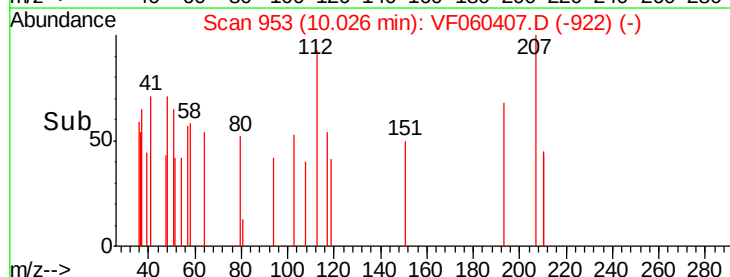
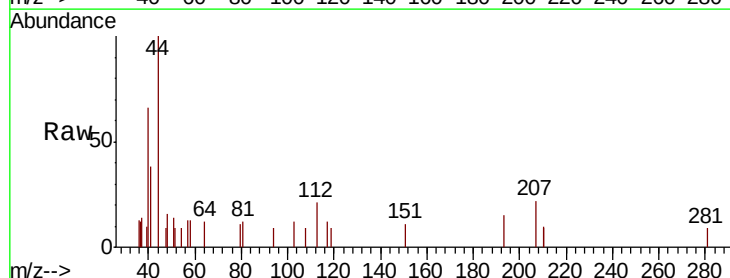
Acq: 2 Oct 2018 17:32

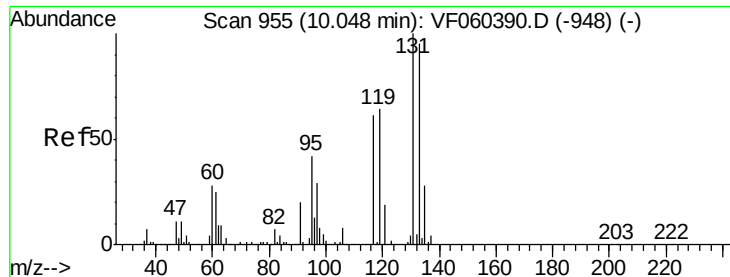
Tgt Ion:112 Resp: 140

Ion Ratio Lower Upper

112 100

114 0.0 27.7 41.5#





#66

1,1,1,2-Tetrachloroethane

Concen: 1.206 ug/l

RT: 10.04 min Scan# 954

Delta R.T. -0.01 min

Lab File: VF060407.D

Acq: 2 Oct 2018 17:32

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-3

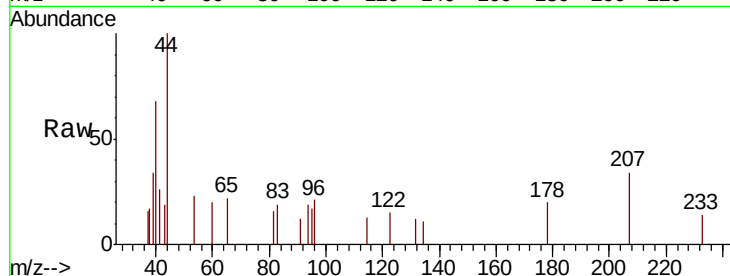
Tot Ion:131 Resp: 62

Ion Ratio Lower Upper

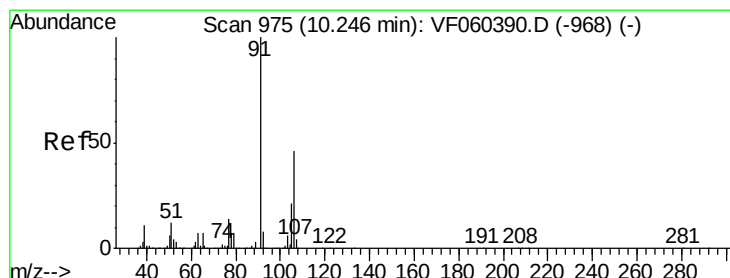
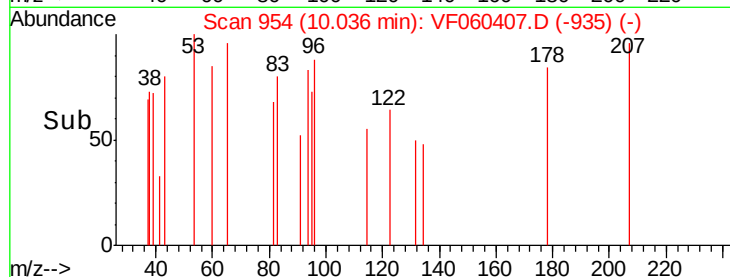
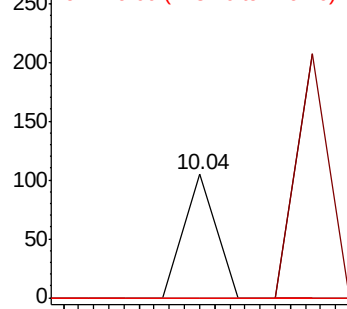
131 100

133 0.0 47.3 141.8#

119 0.0 32.3 96.9#



Abundance Ion 131.00 (130.70 to 131.70): V
Ion 133.00 (132.70 to 133.70): V
Ion 119.00 (118.70 to 119.70): V



#68

m/p-Xylenes

Concen: 1.222 ug/l

RT: 10.20 min Scan# 971

Delta R.T. -0.04 min

Lab File: VF060407.D

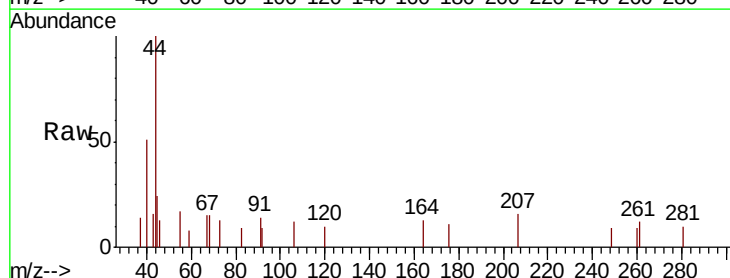
Acq: 2 Oct 2018 17:32

Tgt Ion:106 Resp: 94

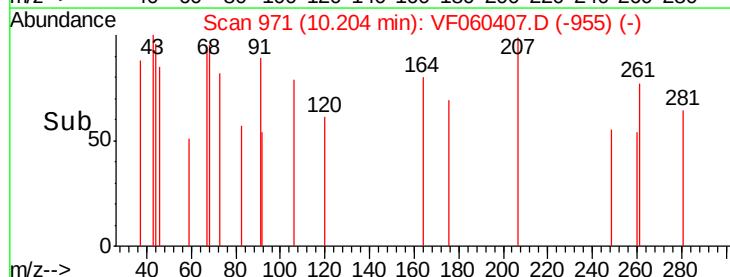
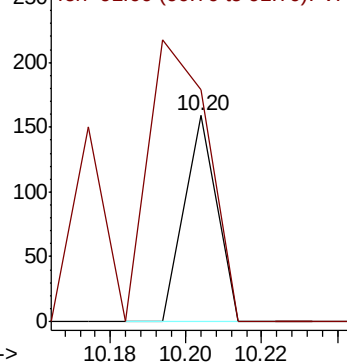
Ion Ratio Lower Upper

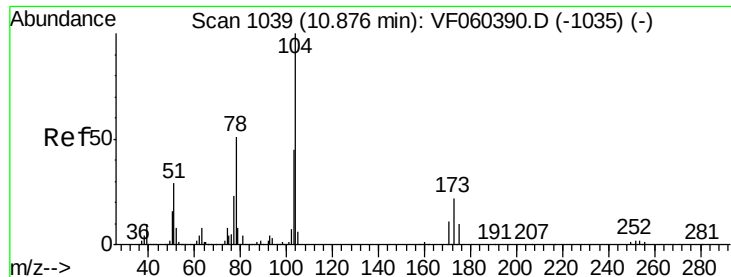
106 100

91 112.6 175.0 262.6#



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0

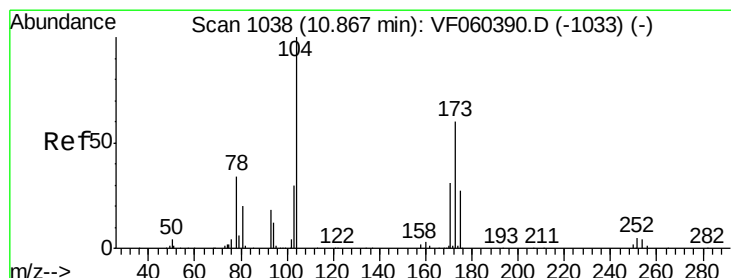
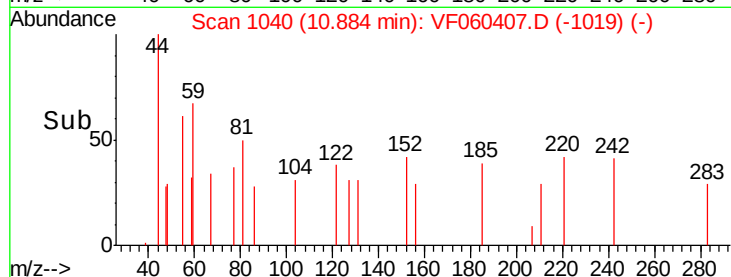
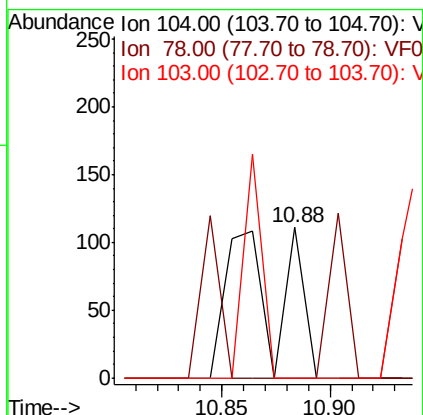
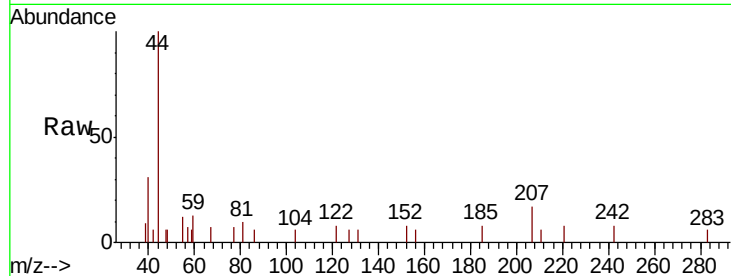




#70
Stvrene
Concen: 1.593 ug/l
RT: 10.88 min Scan# 1040
Delta R.T. 0.01 min
Lab File: VF060407.D
Acq: 2 Oct 2018 17:32

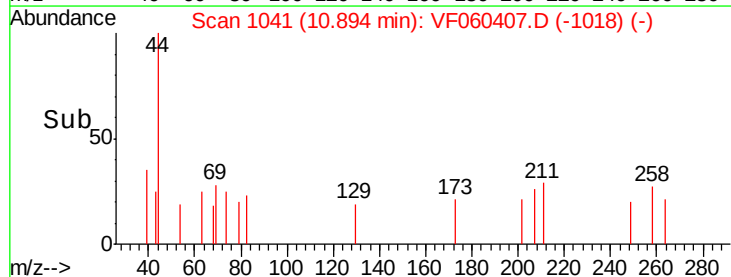
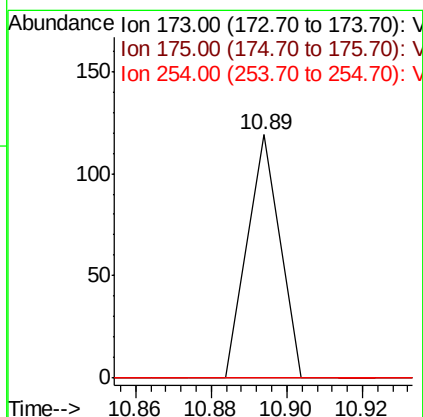
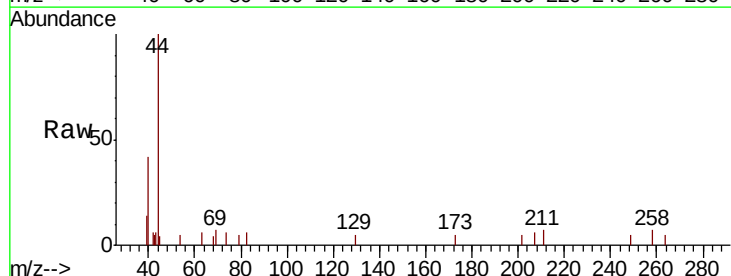
Instrument :
MSVOA_F
ClientSampled :
HC-SOIL-3

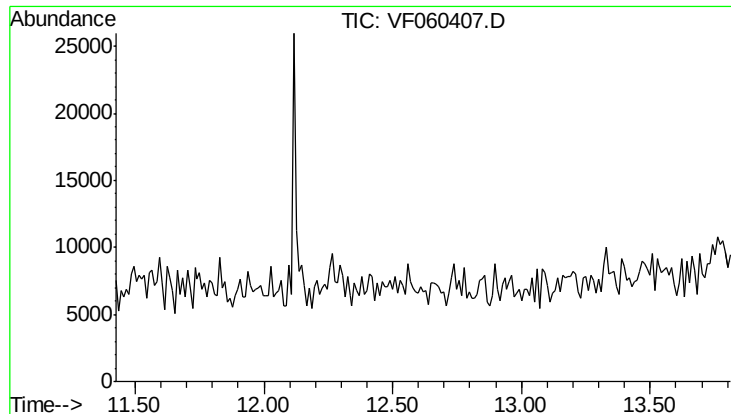
Tot Ion:104 Resp: 190
Ion Ratio Lower Upper
104 100
78 0.0 41.0 61.4#
103 0.0 36.4 54.6#



#71
Bromoform
Concen: 2.558 ug/l
RT: 10.89 min Scan# 1041
Delta R.T. 0.03 min
Lab File: VF060407.D
Acq: 2 Oct 2018 17:32

Tgt Ion:173 Resp: 70
Ion Ratio Lower Upper
173 100
175 0.0 22.1 66.1#
254 0.0 0.0 0.0





#72
 1,4-Dichlorobenzene-d4
 Concen: 0.000 ug/l
 Expected RT: 12.62 min
 Lab File: VF060407.D
 Acq: 2 Oct 2018 17:32

Instrument :
 MSVOA_F
 ClientSampleId :
 HC-SOIL-3

Tot Ion	152
Exp Ratio	100
115	57.2
150	162.3

