

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF070618\
 Data File : VF059455.D
 Acq On : 6 Jul 2018 17:51
 Operator : VA/AP
 Sample : J3852-21
 Misc : 5.01g/5mL/MSVOA-F/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 HC-CON

Quant Time: Jul 07 01:50:44 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 26 08:45:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.02	168	226002	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.74	114	347616	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.90	117	348643	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	233317	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.00	65	163302	55.93	ug/l	0.00
Spiked Amount			Recovery	=	111.86%	
35) Dibromofluoromethane	4.27	113	135059	53.17	ug/l	0.00
Spiked Amount			Recovery	=	106.34%	
50) Toluene-d8	7.69	98	314922	50.08	ug/l	0.00
Spiked Amount			Recovery	=	100.16%	
62) 4-Bromofluorobenzene	11.49	95	190195	53.62	ug/l	0.00
Spiked Amount			Recovery	=	107.24%	

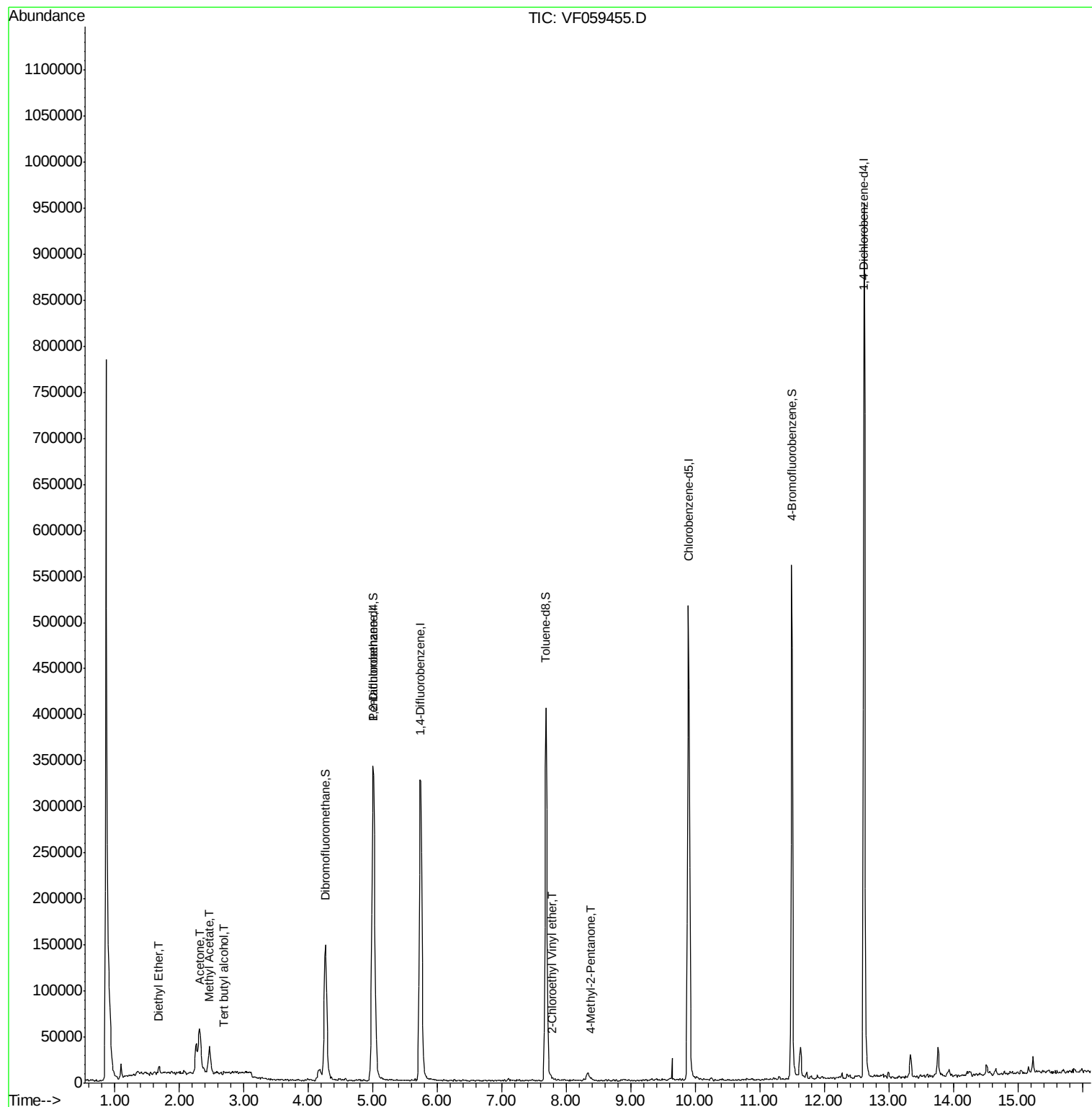
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.37	94	670	Below Cal	#	4
8) Diethyl Ether	1.69	74	2801	4.046	ug/l	94
11) Tert butyl alcohol	2.69	59	253	1.302	ug/l #	66
13) Acrolein	2.03	56	273	Below Cal		90
16) Acetone	2.33	43	52492	64.410	ug/l	94
18) Methyl Acetate	2.46	43	12286	8.353	ug/l #	61
20) Methylene Chloride	2.27	84	10938	Below Cal	#	81
25) 2-Butanone	4.47	43	994	Below Cal	#	59
28) Bromochloromethane	3.94	49	137	Below Cal	#	6
29) Tetrahydrofuran	4.25	42	683	Below Cal	#	73
37) Ethyl Acetate	4.27	43	577	Below Cal	#	26
49) 1,4-Dioxane	7.10	88	63	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.39	43	2253	1.202	ug/l #	39
58) 2-Chloroethyl Vinyl ether	7.79	63	183	1.007	ug/l	100
59) 2-Hexanone	9.61	43	2546	Below Cal		71
87) 1,3-Dichlorobenzene	12.54	146	493	Below Cal		82

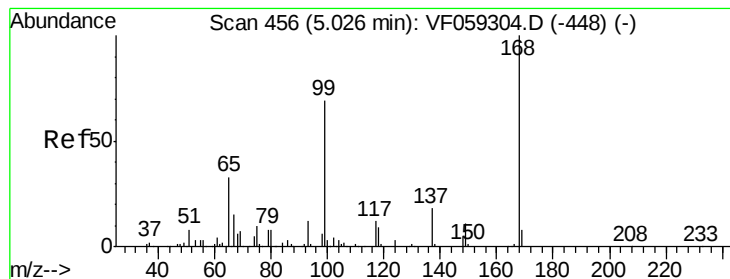
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.02 min Scan# 455

Delta R.T. -0.01 min

Lab File: VF059455.D

Acq: 6 Jul 2018 17:51

Instrument :

MSVOA_F

ClientSampleId :

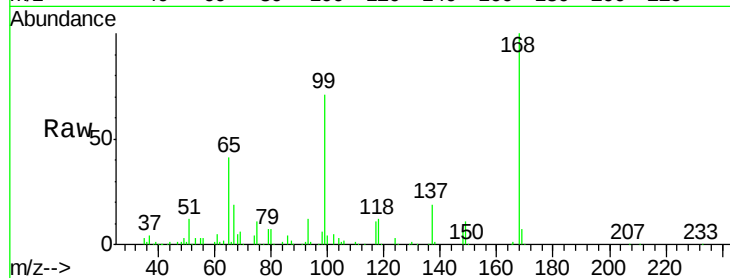
HC-CON

Tot Ion:168 Resp: 226002

Ion Ratio Lower Upper

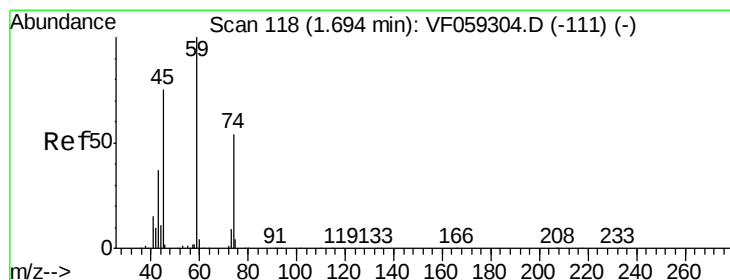
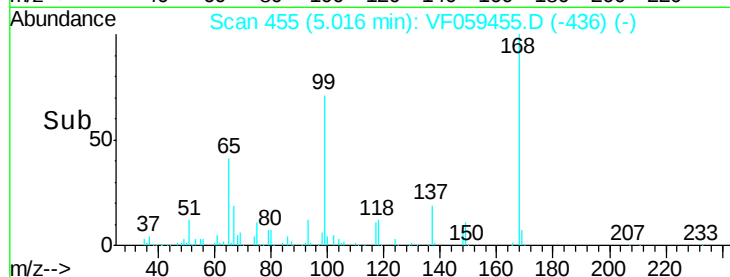
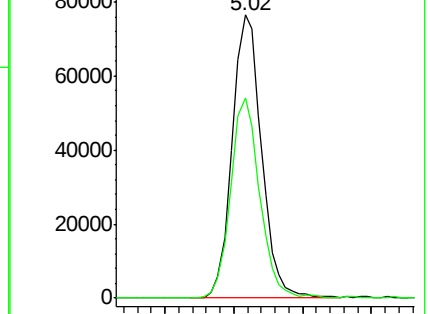
168 100

99 70.6 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#8

Diethyl Ether

Concen: 4.046 ug/l

RT: 1.69 min Scan# 118

Delta R.T. 0.00 min

Lab File: VF059455.D

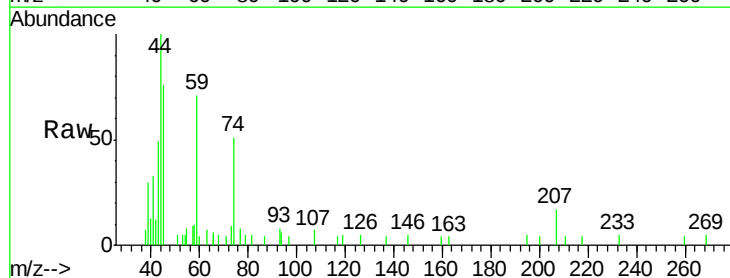
Acq: 6 Jul 2018 17:51

Tgt Ion: 74 Resp: 2801

Ion Ratio Lower Upper

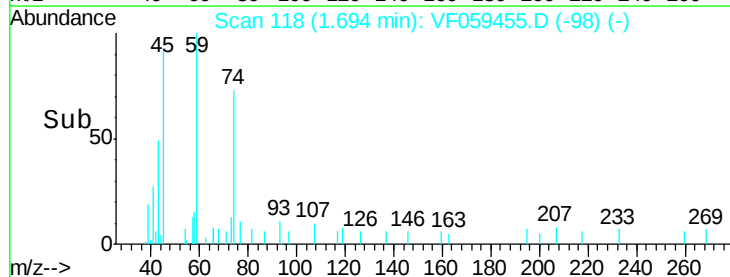
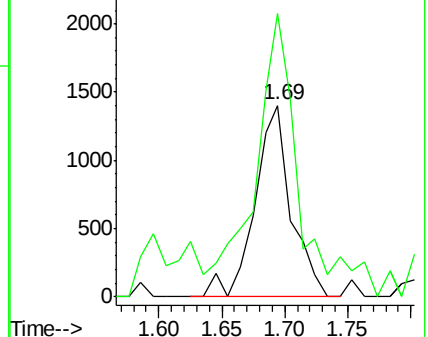
74 100

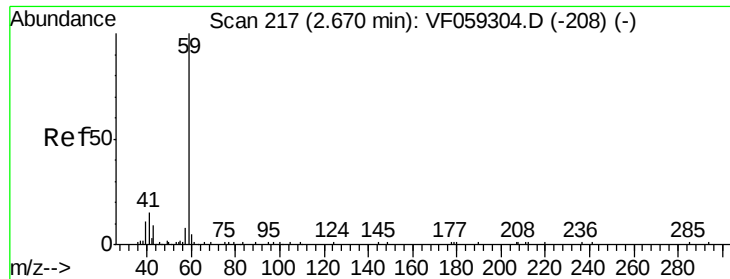
45 147.8 70.0 210.0



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0



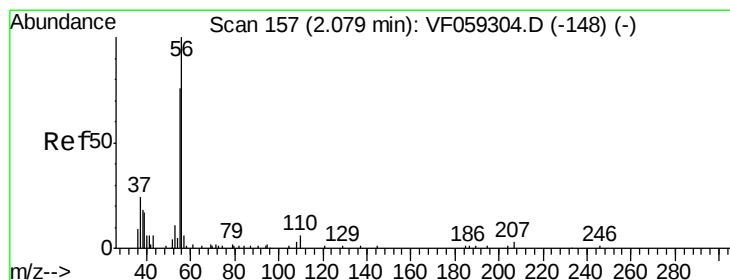
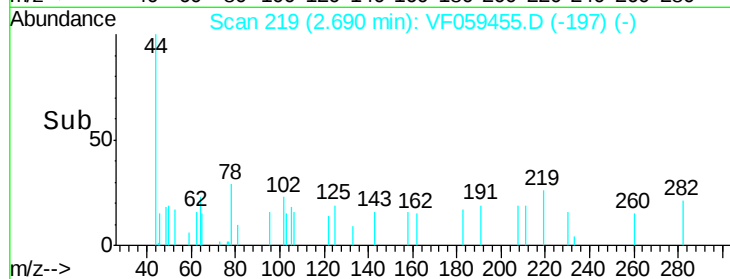
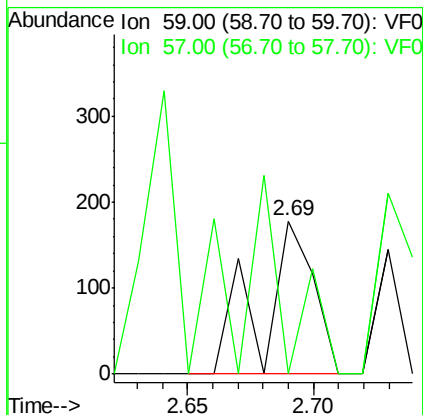
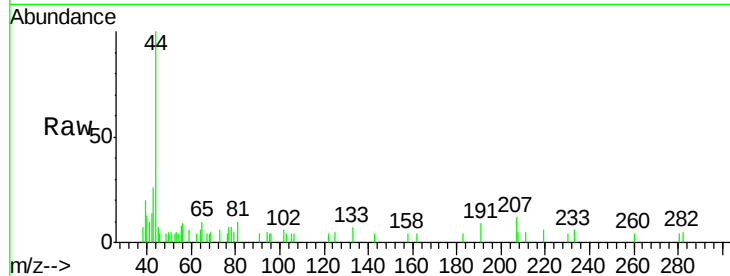


#11

Tert butyl alcohol
 Concen: 1.302 ug/l
 RT: 2.69 min Scan# 219
 Delta R.T. 0.02 min
 Lab File: VF059455.D
 Acq: 6 Jul 2018 17:51

Instrument :
 MSVOA_F
 ClientSampleId :
 HC-CON

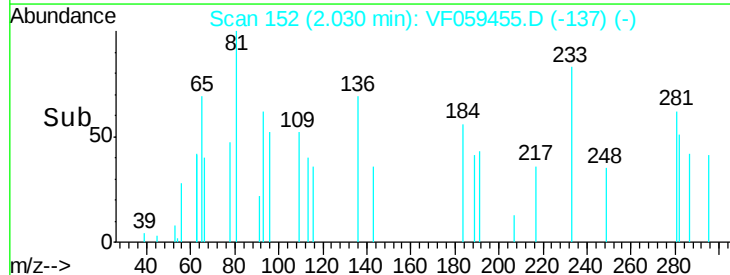
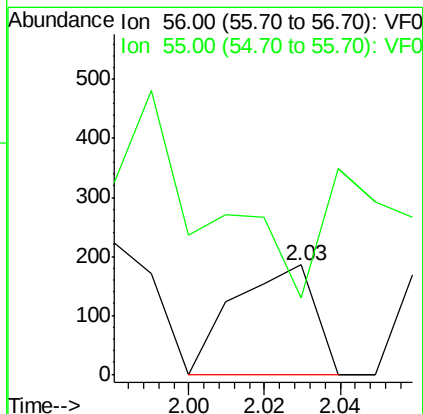
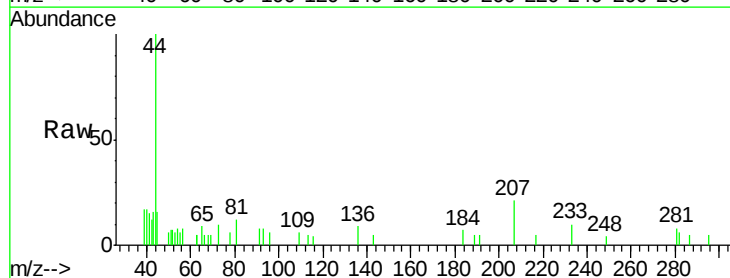
Tot Ion: 59 Resp: 253
 Ion Ratio Lower Upper
 59 100
 57 0.0 11.0 16.4#

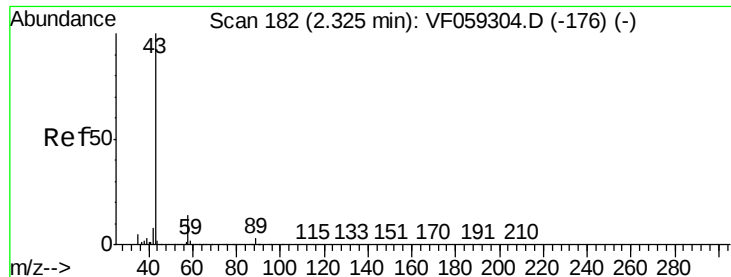


#13

Acrolein
 Concen: Below Cal
 RT: 2.03 min Scan# 152
 Delta R.T. -0.05 min
 Lab File: VF059455.D
 Acq: 6 Jul 2018 17:51

Tgt Ion: 56 Resp: 273
 Ion Ratio Lower Upper
 56 100
 55 69.7 62.4 93.6

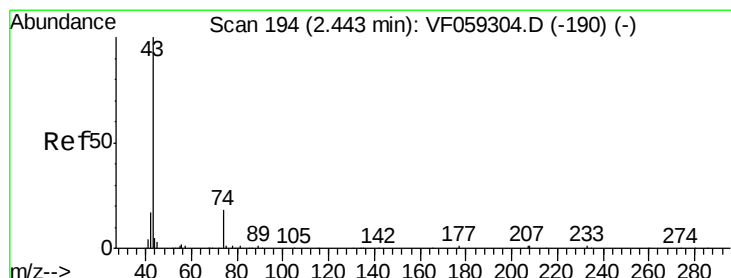
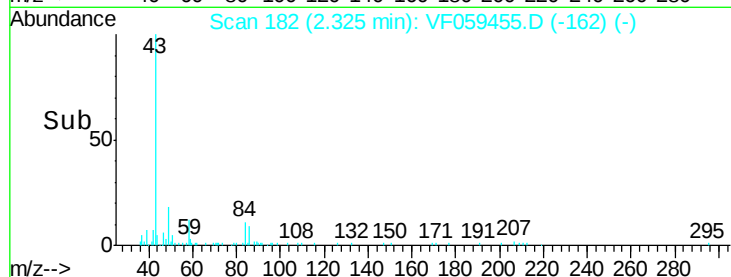
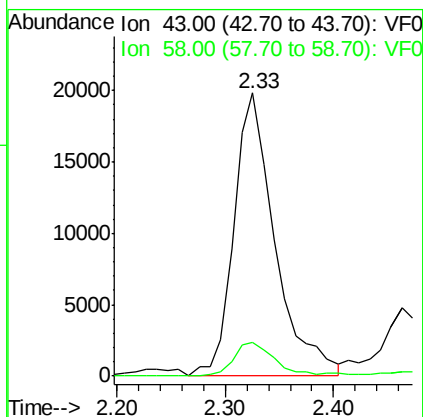
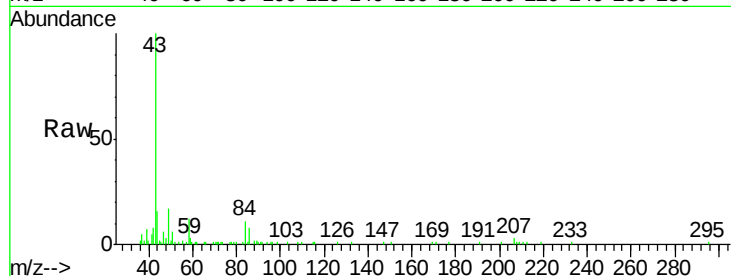




#16
Acetone
Concen: 64.410 ug/l
RT: 2.33 min Scan# 182
Delta R.T. 0.00 min
Lab File: VF059455.D
Acq: 6 Jul 2018 17:51

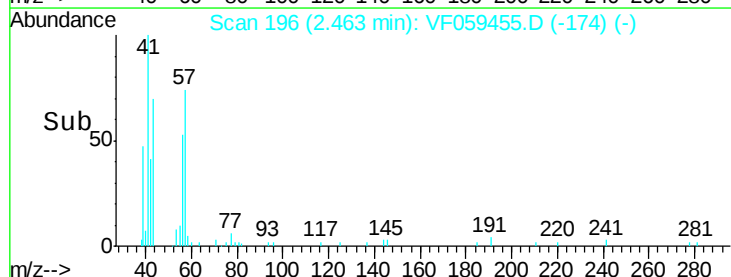
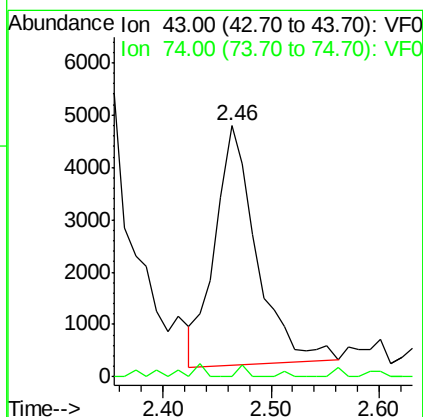
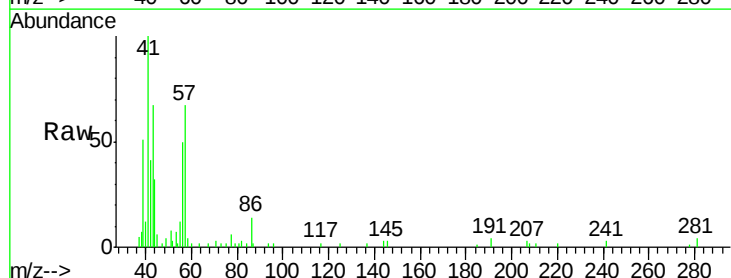
Instrument :
MSVOA_F
ClientSampleId :
HC-CON

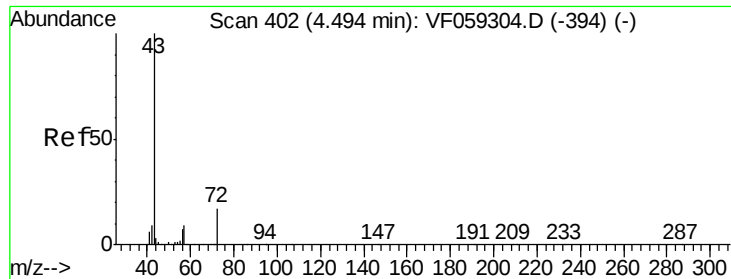
Tot Ion: 43 Resp: 52492
Ion Ratio Lower Upper
43 100
58 11.8 11.4 17.0



#18
Methyl Acetate
Concen: 8.353 ug/l
RT: 2.46 min Scan# 196
Delta R.T. 0.02 min
Lab File: VF059455.D
Acq: 6 Jul 2018 17:51

Tgt Ion: 43 Resp: 12286
Ion Ratio Lower Upper
43 100
74 0.0 13.3 19.9#





#25

2-Butanone

Concen: Below Cal

RT: 4.47 min Scan# 400

Delta R.T. -0.02 min

Lab File: VF059455.D

Acq: 6 Jul 2018 17:51

Instrument :

MSVOA_F

ClientSampleId :

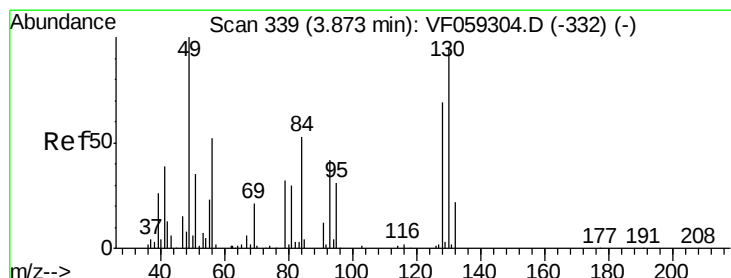
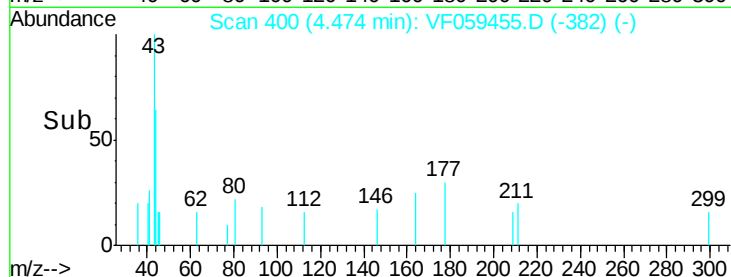
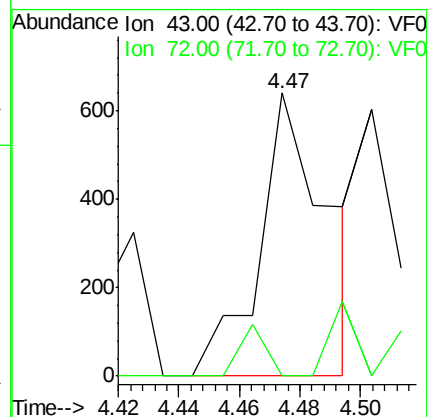
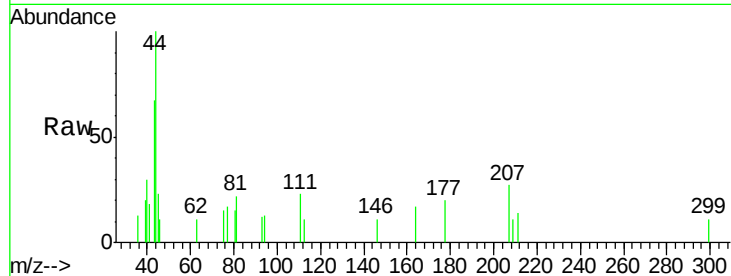
HC-CON

Tot Ion: 43 Resp: 994

Ion Ratio Lower Upper

43 100

72 0.0 14.4 21.6#



#28

Bromochloromethane

Concen: Below Cal

RT: 3.94 min Scan# 346

Delta R.T. 0.07 min

Lab File: VF059455.D

Acq: 6 Jul 2018 17:51

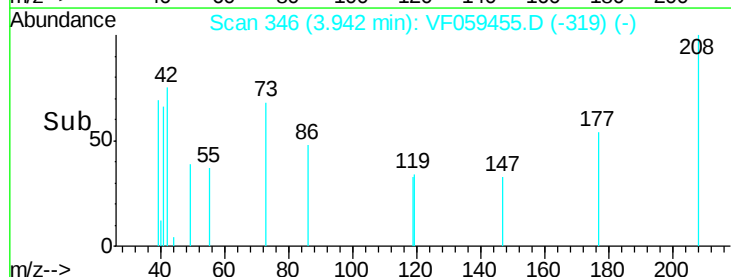
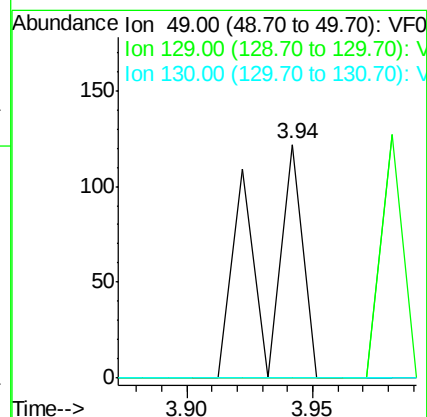
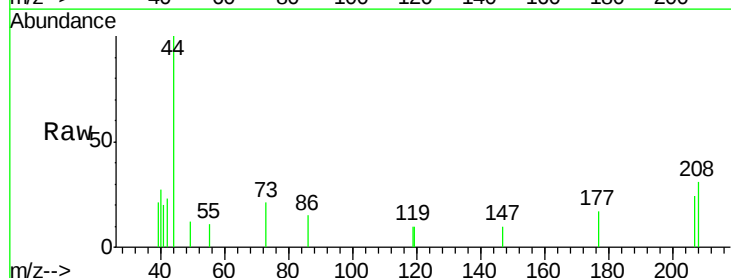
Tgt Ion: 49 Resp: 137

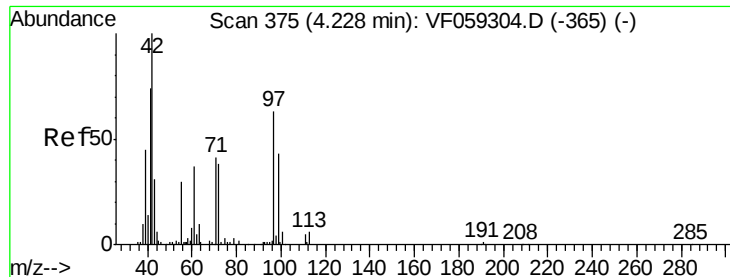
Ion Ratio Lower Upper

49 100

129 0.0 0.0 6.4

130 0.0 75.1 112.7#





#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.25 min Scan# 377

Delta R.T. 0.02 min

Lab File: VF059455.D

Acq: 6 Jul 2018 17:51

Instrument :

MSVOA_F

ClientSampleId :

HC-CON

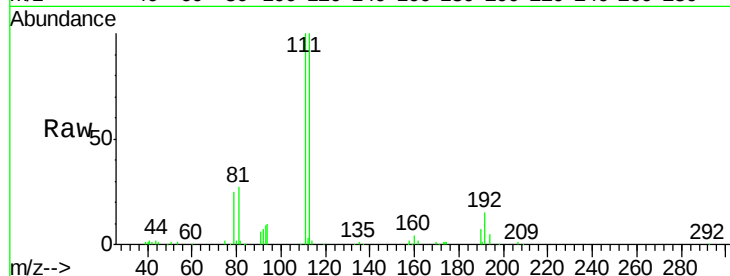
Tot Ion: 42 Resp: 683

Ion Ratio Lower Upper

42 100

72 10.7 30.5 45.7#

71 34.0 32.5 48.7



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

4.25

300

200

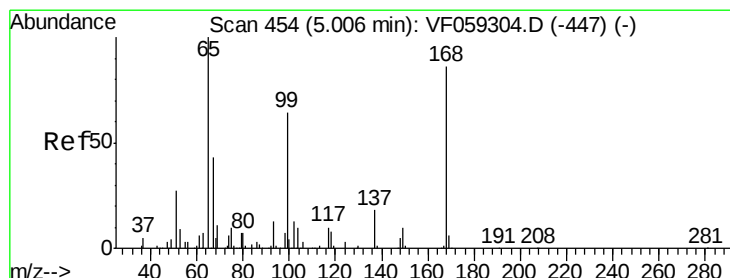
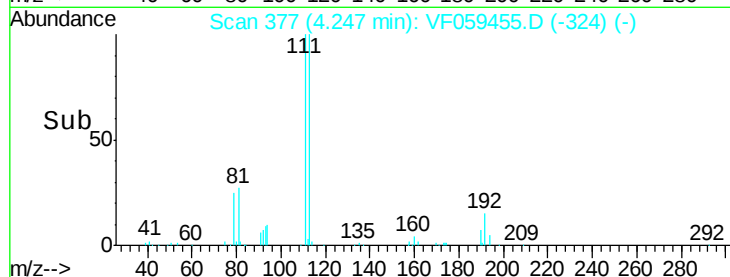
100

0

4.25

4.30

Time-->



#33

1,2-Dichloroethane-d4

Concen: 55.927 ug/l

RT: 5.00 min Scan# 453

Delta R.T. -0.01 min

Lab File: VF059455.D

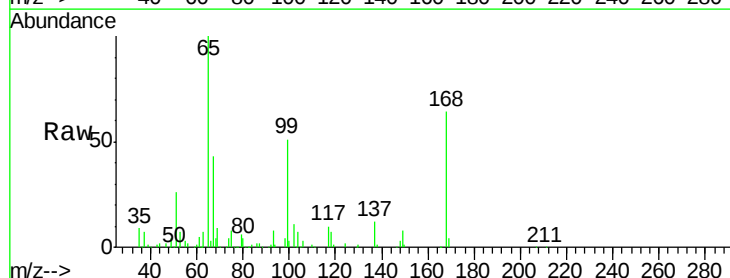
Acq: 6 Jul 2018 17:51

Tgt Ion: 65 Resp: 163302

Ion Ratio Lower Upper

65 100

67 43.1 0.0 96.8



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

60000

40000

20000

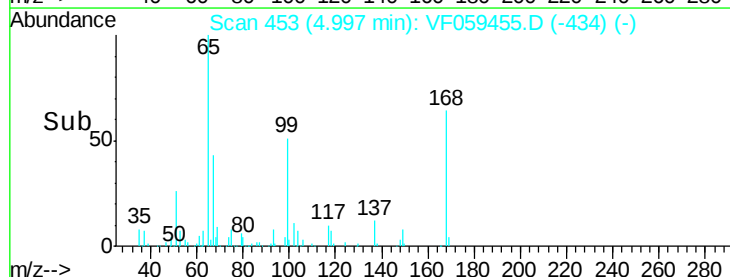
0

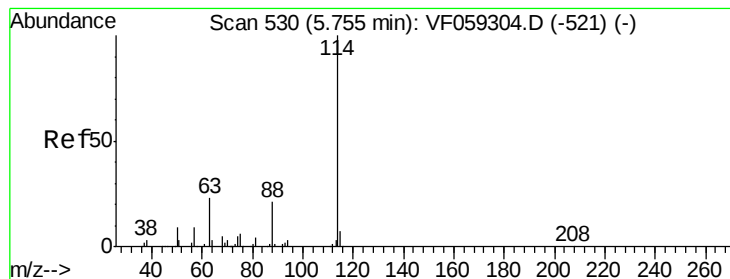
4.90

5.00

5.10

Time-->





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.74 min Scan# 528

Delta R.T. -0.02 min

Lab File: VF059455.D

Acq: 6 Jul 2018 17:51

Instrument :

MSVOA_F

ClientSampleId :

HC-CON

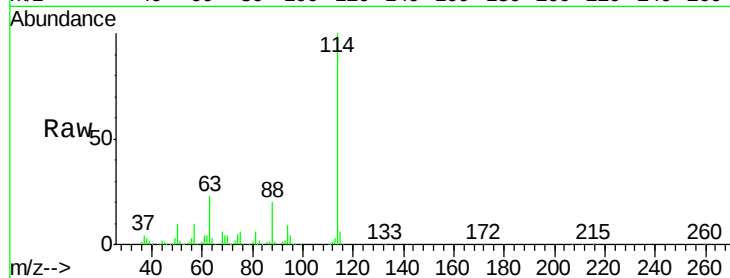
Tot Ion:114 Resp: 347616

Ion Ratio Lower Upper

114 100

63 23.5 0.0 45.8

88 19.8 0.0 41.2



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

150000

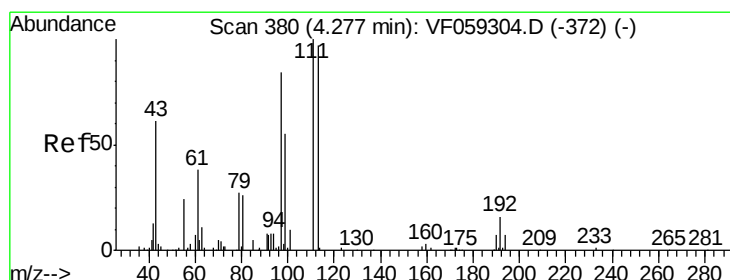
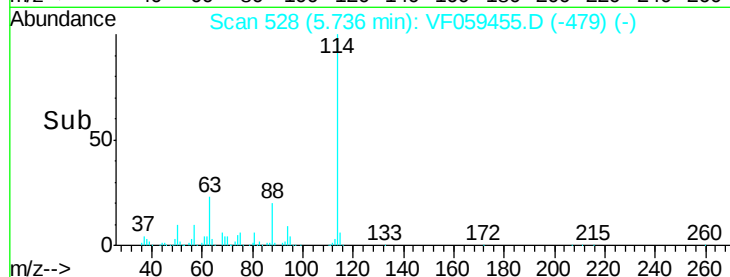
5.74

100000

50000

0

Time-->



#35

Dibromofluoromethane

Concen: 53.175 ug/l

RT: 4.27 min Scan# 379

Delta R.T. -0.01 min

Lab File: VF059455.D

Acq: 6 Jul 2018 17:51

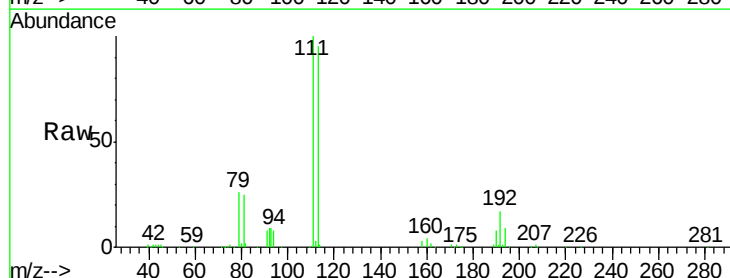
Tgt Ion:113 Resp: 135059

Ion Ratio Lower Upper

113 100

111 105.8 82.1 123.1

192 0.0 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

60000

4.27

50000

40000

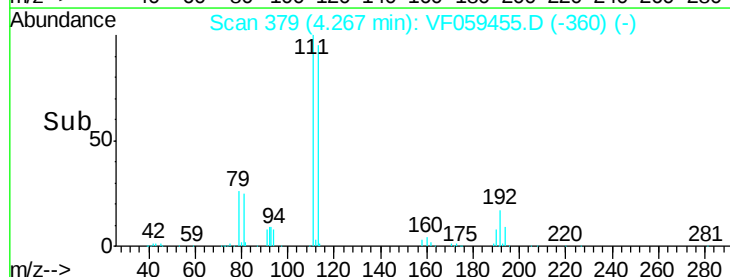
30000

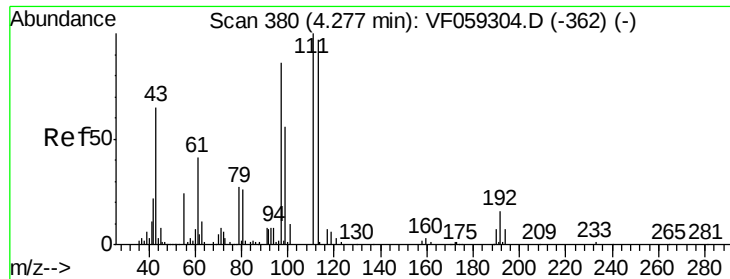
20000

10000

0

Time-->





#37

Ethyl Acetate

Concen: Below Cal

RT: 4.27 min Scan# 379

Delta R.T. -0.01 min

Lab File: VF059455.D

Acq: 6 Jul 2018 17:51

Instrument :

MSVOA_F

ClientSampled :

HC-CON

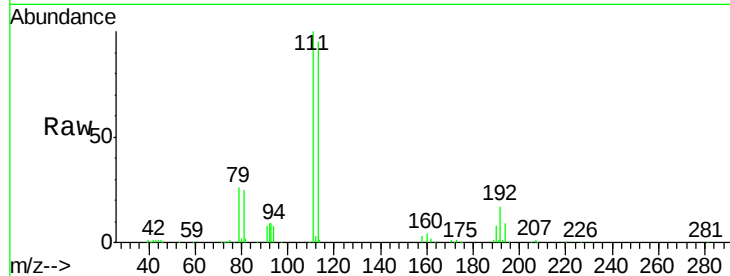
Tot Ion: 43 Resp: 577

Ion Ratio Lower Upper

43 100

61 0.0 50.1 75.1#

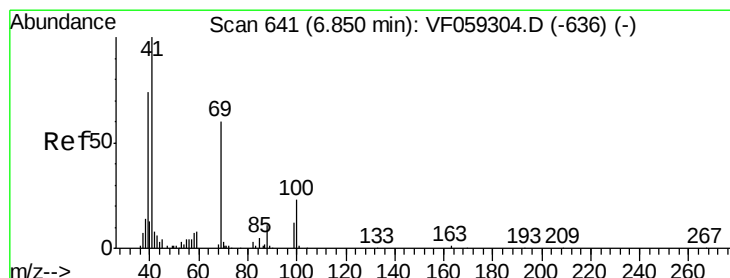
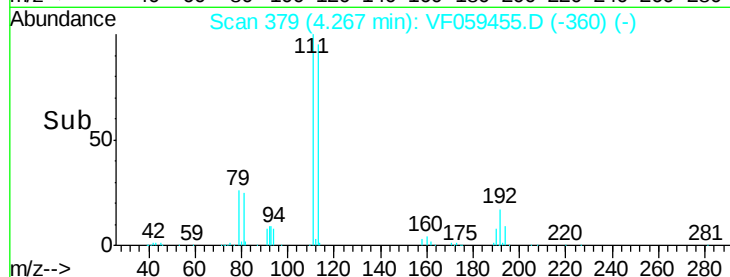
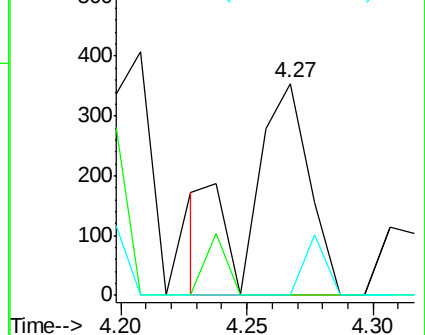
70 0.0 6.2 9.4#



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



#49

1,4-Dioxane

Concen: Below Cal

RT: 7.10 min Scan# 666

Delta R.T. 0.25 min

Lab File: VF059455.D

Acq: 6 Jul 2018 17:51

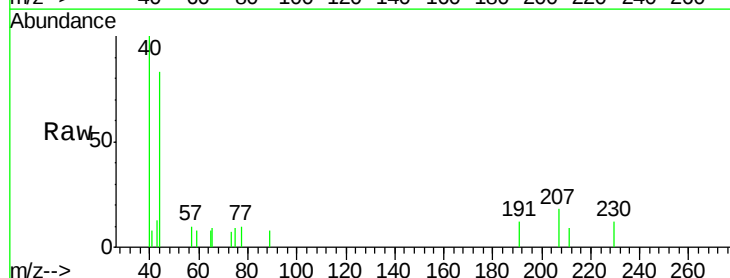
Tgt Ion: 88 Resp: 63

Ion Ratio Lower Upper

88 100

43 167.9 50.6 75.8#

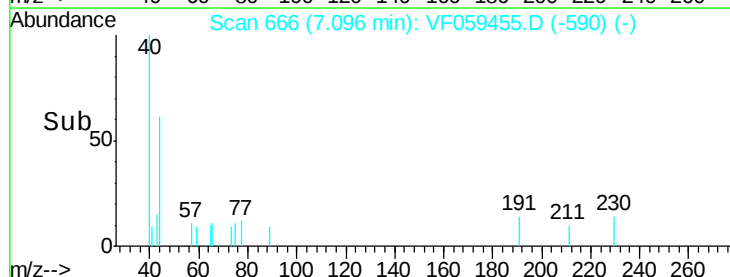
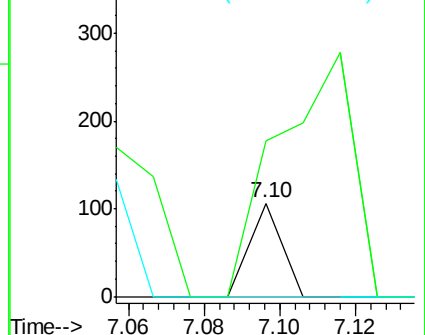
58 0.0 46.6 69.8#

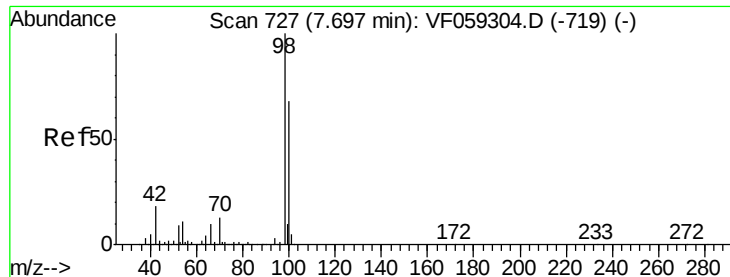


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 50.078 ug/l

RT: 7.69 min Scan# 726

Delta R.T. -0.01 min

Lab File: VF059455.D

Acq: 6 Jul 2018 17:51

Instrument :

MSVOA_F

ClientSampleId :

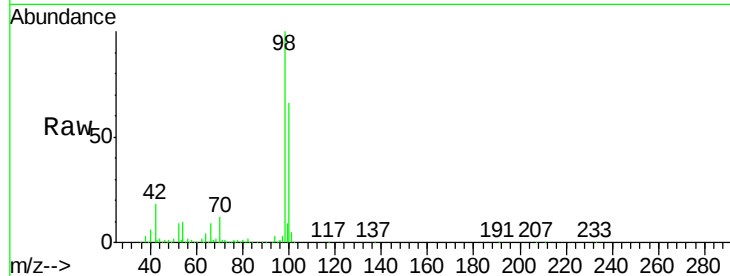
HC-CON

Tot Ion: 98 Resp: 314922

Ion Ratio Lower Upper

98 100

100 66.2 54.6 82.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.69

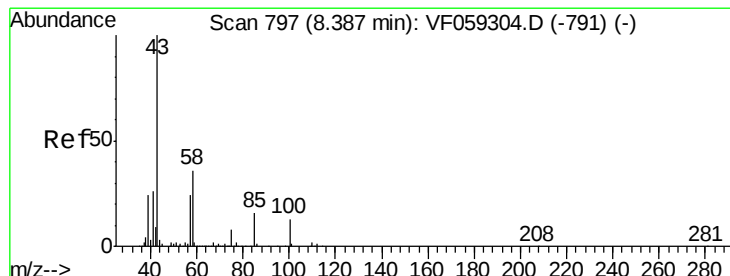
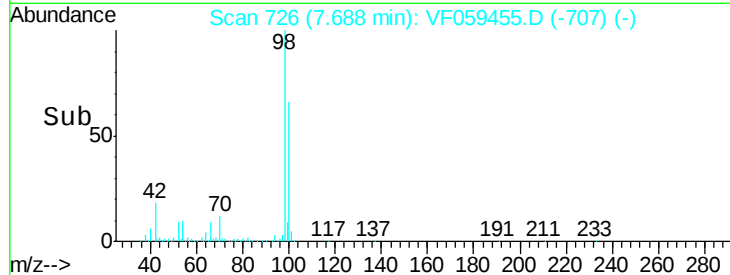
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.202 ug/l

RT: 8.39 min Scan# 797

Delta R.T. 0.00 min

Lab File: VF059455.D

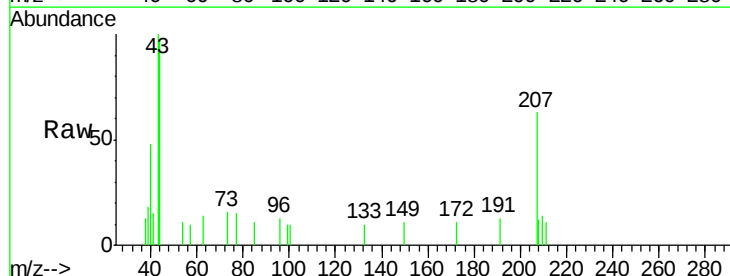
Acq: 6 Jul 2018 17:51

Tgt Ion: 43 Resp: 2253

Ion Ratio Lower Upper

43 100

58 0.0 28.4 42.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

1200

1000

800

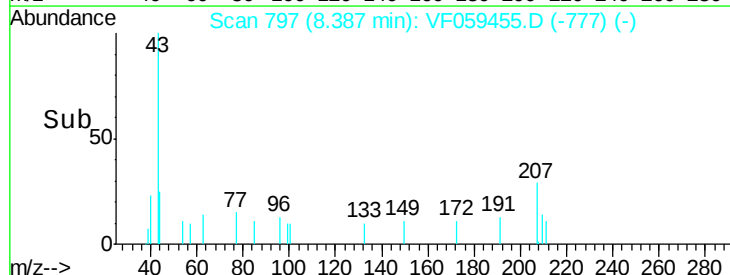
600

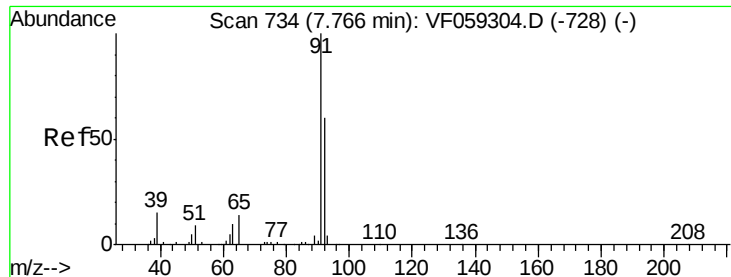
400

200

0

Time-->





#58

2-Chloroethyl Vinyl ether

Concen: 1.007 ug/l

RT: 7.79 min Scan# 736

Delta R.T. 0.02 min

Lab File: VF059455.D

Acq: 6 Jul 2018 17:51

Instrument :

MSVOA_F

ClientSampleId :

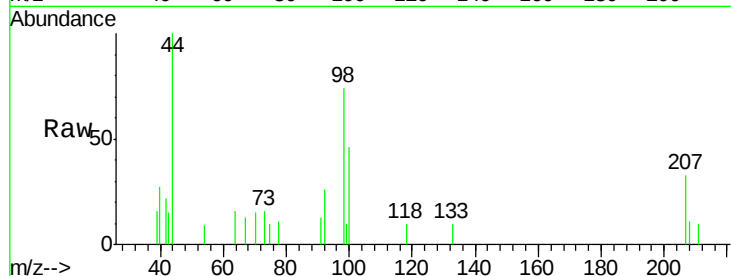
HC-CON

Tot Ion: 63 Resp: 183

Ion Ratio Lower Upper

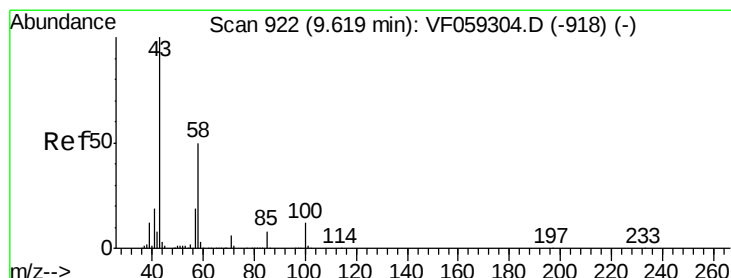
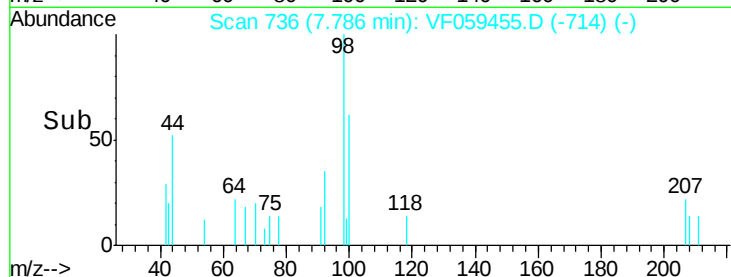
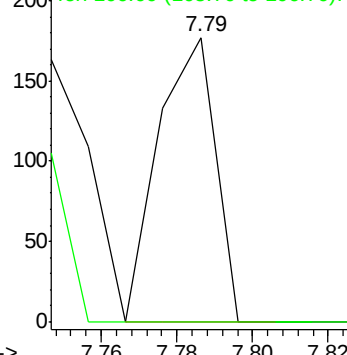
63 100

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: Below Cal

RT: 9.61 min Scan# 921

Delta R.T. -0.01 min

Lab File: VF059455.D

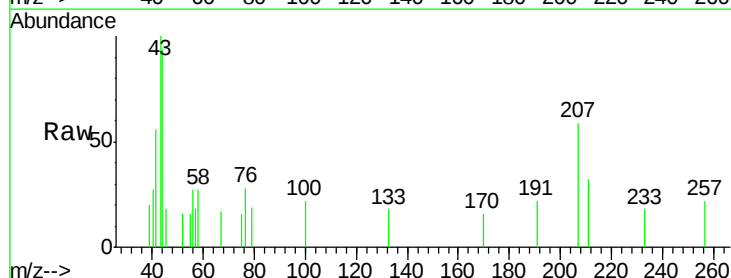
Acq: 6 Jul 2018 17:51

Tgt Ion: 43 Resp: 2546

Ion Ratio Lower Upper

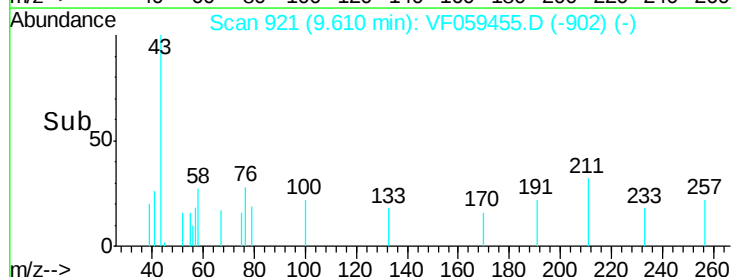
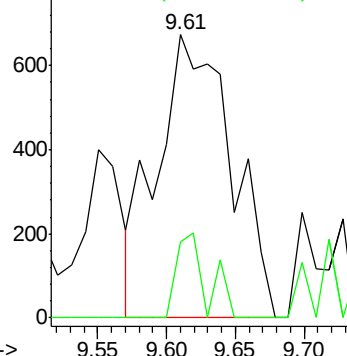
43 100

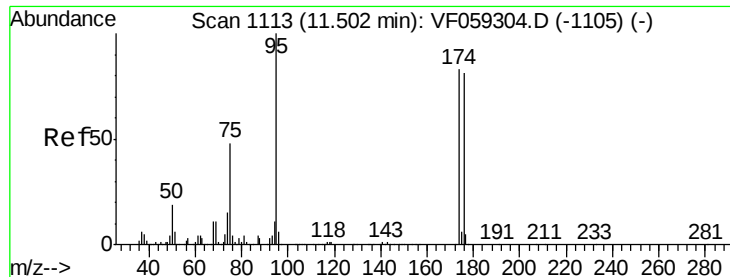
58 27.0 23.3 69.9



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

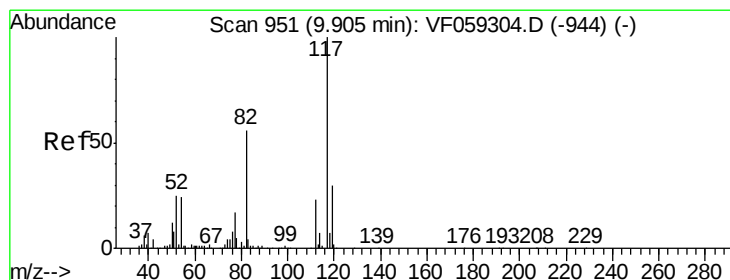
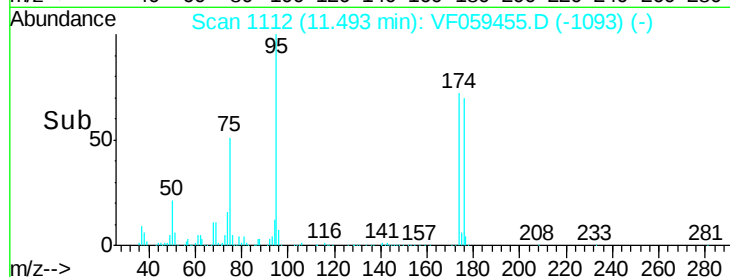
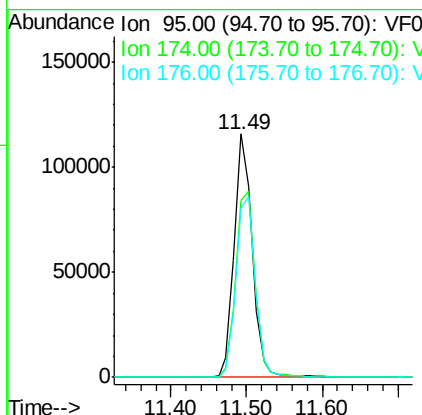
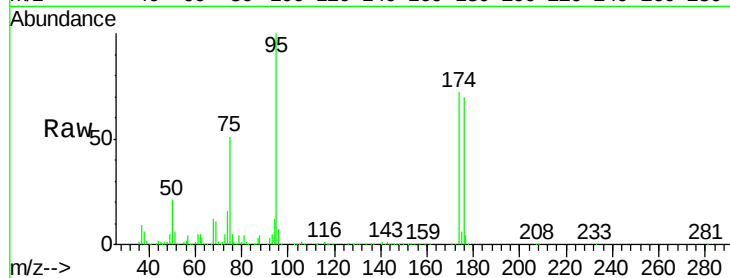




#62
4-Bromofluorobenzene
Concen: 53.616 ug/l
RT: 11.49 min Scan# 1112
Delta R.T. -0.01 min
Lab File: VF059455.D
Acq: 6 Jul 2018 17:51

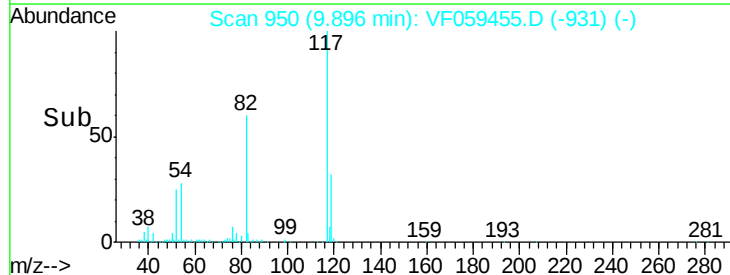
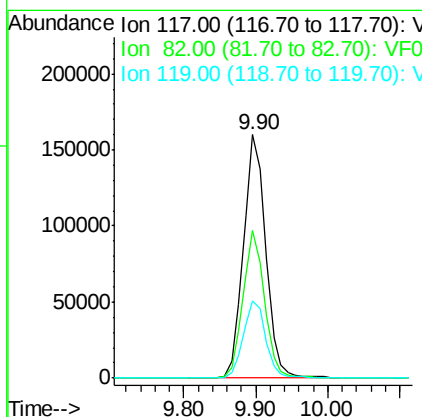
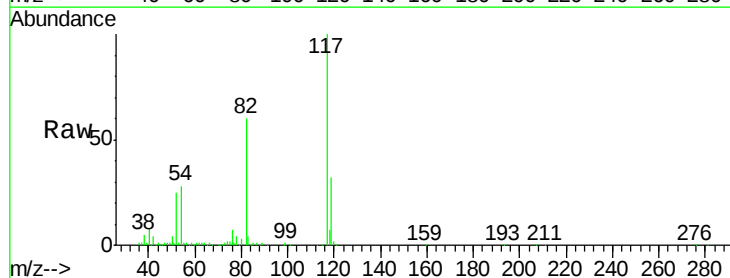
Instrument :
MSVOA_F
ClientSampleId :
HC-CON

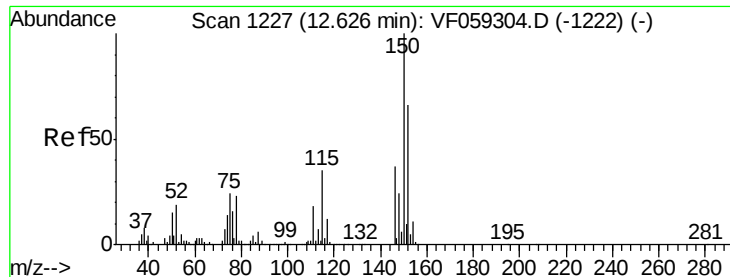
Tot Ion	Ratio	Lower	Upper
95	100		
174	72.5	0.0	165.2
176	69.7	0.0	161.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.90 min Scan# 950
Delta R.T. -0.01 min
Lab File: VF059455.D
Acq: 6 Jul 2018 17:51

Tgt Ion	Ratio	Lower	Upper
117	100		
82	60.4	44.6	66.8
119	31.6	24.1	36.1



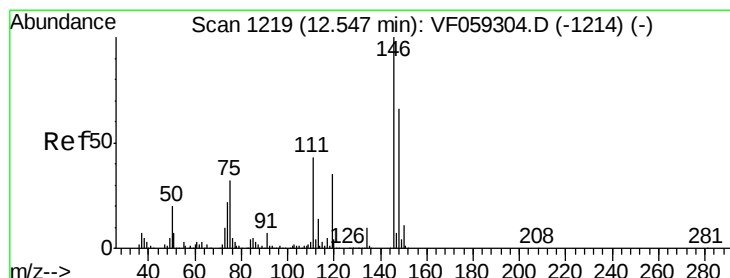
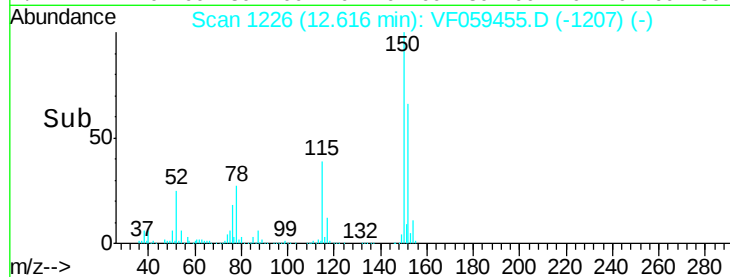
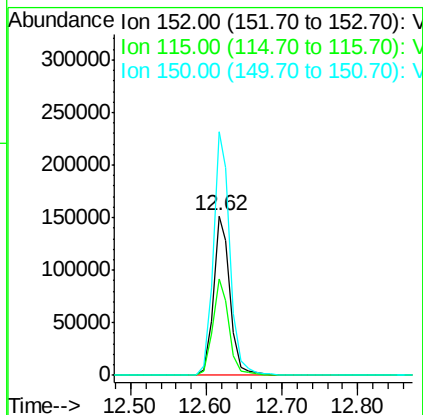
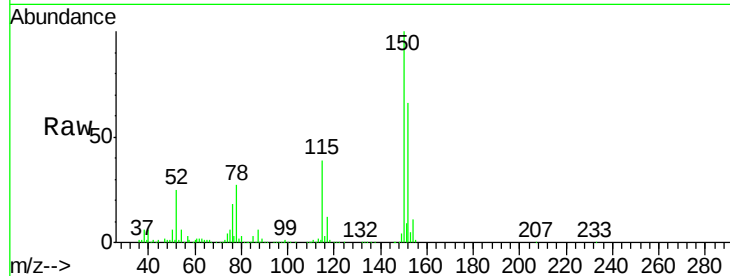


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1226
Delta R.T. -0.01 min
Lab File: VF059455.D
Acq: 6 Jul 2018 17:51

Instrument :
MSVOA_F
ClientSampleId :
HC-CON

Tot Ion	Ratio	Lower	Upper
152	100		
115	60.3	27.1	81.3
150	152.6	0.0	305.2



#87

1,3-Dichlorobenzene
Concen: Below Cal
RT: 12.54 min Scan# 1218
Delta R.T. -0.01 min
Lab File: VF059455.D
Acq: 6 Jul 2018 17:51

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.7	21.4	64.2
148	42.5	32.8	98.4

