

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF110718\
 Data File : VF060630.D
 Acq On : 7 Nov 2018 15:48
 Operator : VA/AP
 Sample : J5819-06
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Nov 07 15:19:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F110218S.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 03 05:29:31 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	265533	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.61	114	452007	50.00	ug/l	0.01
63) Chlorobenzene-d5	9.78	117	403192	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	208678	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.86	65	163947	61.11	ug/l	0.01
Spiked Amount 50.000			Recovery	=	122.22%	
35) Dibromofluoromethane	4.12	113	191195	54.75	ug/l	0.01
Spiked Amount 50.000			Recovery	=	109.50%	
50) Toluene-d8	7.56	98	482585	46.65	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.30%	
62) 4-Bromofluorobenzene	11.42	95	218853	48.37	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.74%	

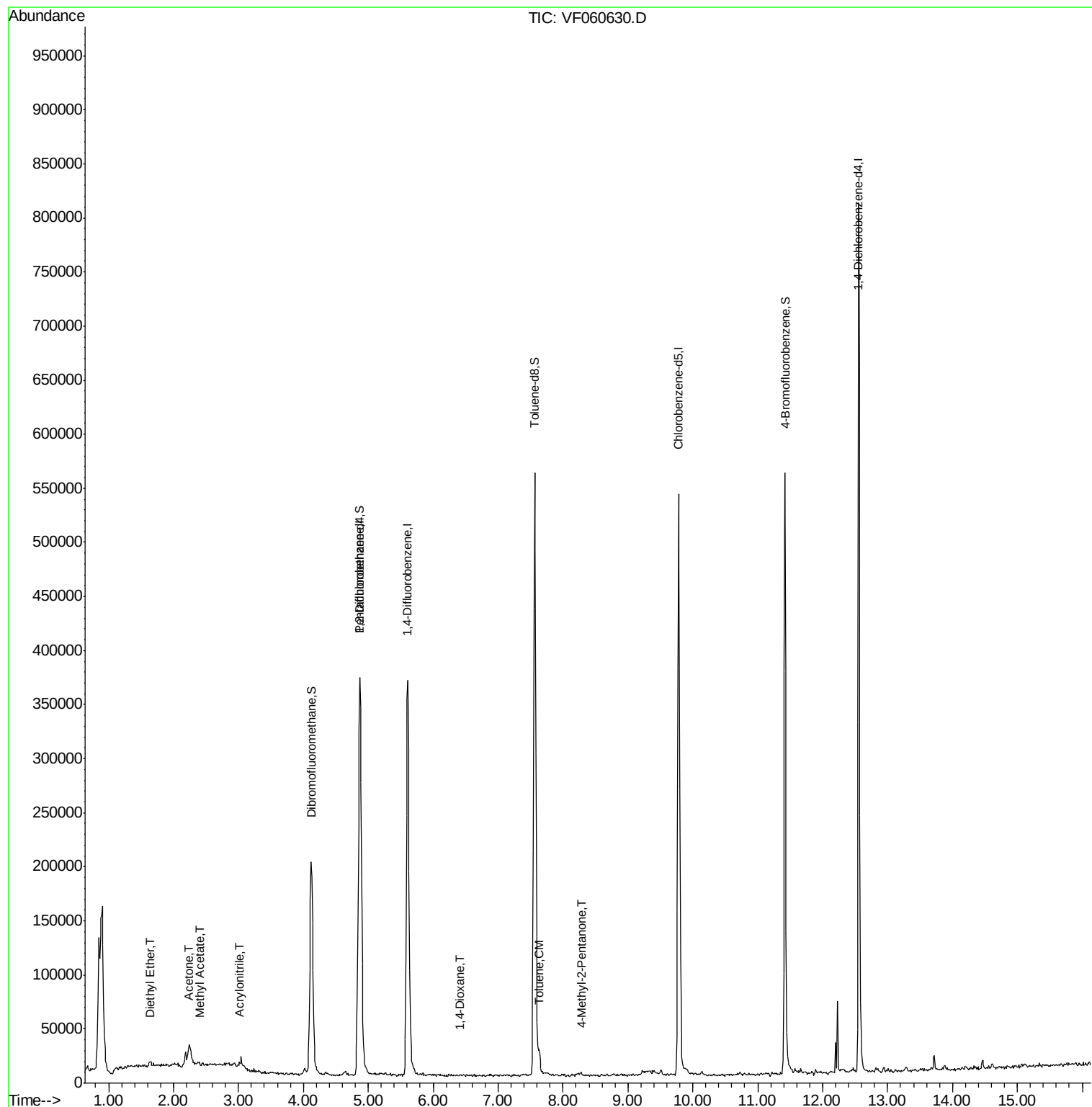
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.96	85	298	Below Cal	#	41
6) Chloroethane	1.42	64	59	Below Cal	#	1
8) Diethyl Ether	1.63	74	1563	2.104	ug/l	86
11) Tert butyl alcohol	2.58	59	373	Below Cal	#	1
13) Acrolein	1.99	56	589	Below Cal	#	1
15) Acrylonitrile	3.01	53	584	1.826	ug/l #	50
16) Acetone	2.25	43	20676	32.705	ug/l	94
18) Methyl Acetate	2.39	43	971	1.458	ug/l #	64
20) Methylene Chloride	2.27	84	6771	Below Cal	#	89
25) 2-Butanone	4.35	43	5005	Below Cal	#	78
29) Tetrahydrofuran	4.08	42	1200	Below Cal	#	60
49) 1,4-Dioxane	6.41	88	60	3.020	ug/l #	1
51) 4-Methyl-2-Pentanone	8.27	43	2442	1.202	ug/l #	87
52) Toluene	7.64	92	9532	1.211	ug/l	89
58) 2-Chloroethyl Vinyl ether	7.63	63	1624	Below Cal		100
59) 2-Hexanone	9.51	43	3693	Below Cal		99
74) N-amyl acetate	11.39	43	2024	Below Cal	#	83
89) n-Butylbenzene	12.85	91	1648	Below Cal		71

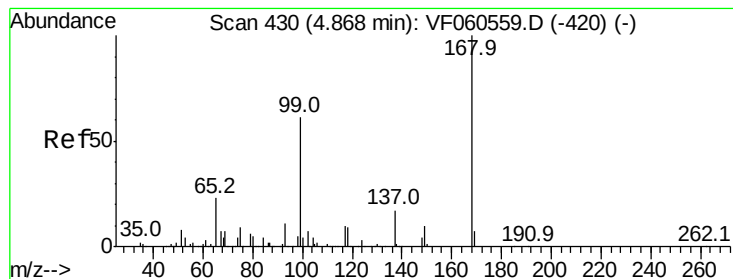
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. 0.01 min

Lab File: VF060630.D

Acq: 7 Nov 2018 15:48

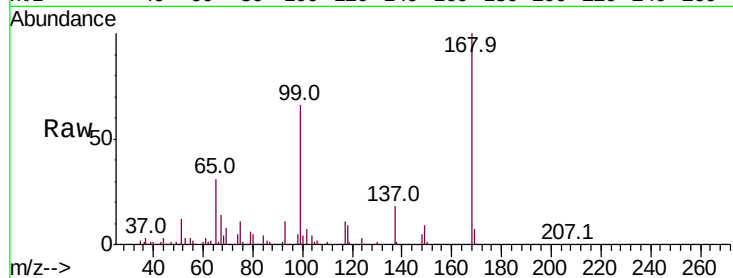
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 265533

Ion Ratio Lower Upper

168 100

99 65.5 48.6 72.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.88

80000

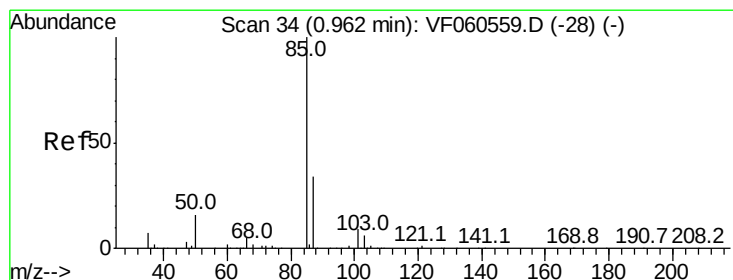
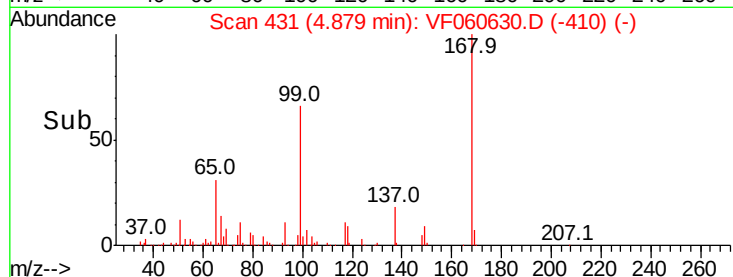
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.96 min Scan# 34

Delta R.T. 0.00 min

Lab File: VF060630.D

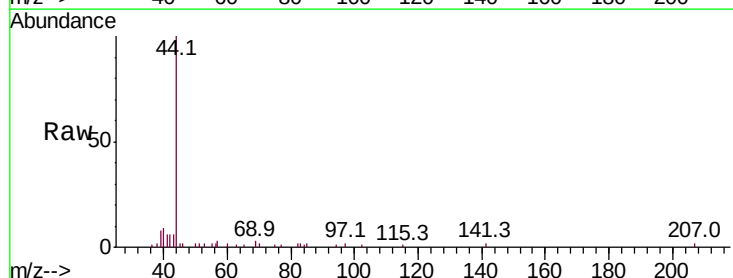
Acq: 7 Nov 2018 15:48

Tgt Ion: 85 Resp: 298

Ion Ratio Lower Upper

85 100

87 0.0 16.9 50.7#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

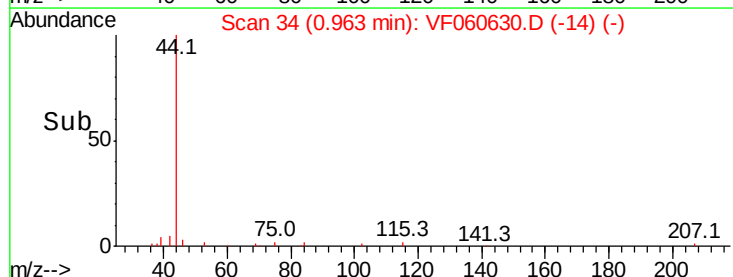
150

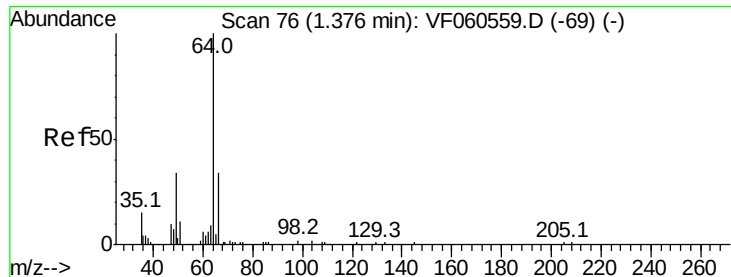
100

50

0

Time--> 0.92 0.94 0.96 0.98 1.00





#6

Chloroethane

Concen: Below Cal

RT: 1.42 min Scan# 80

Delta R.T. 0.04 min

Lab File: VF060630.D

Acq: 7 Nov 2018 15:48

Instrument :

MSVOA_F

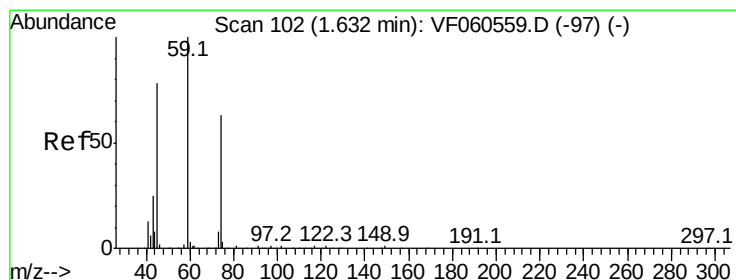
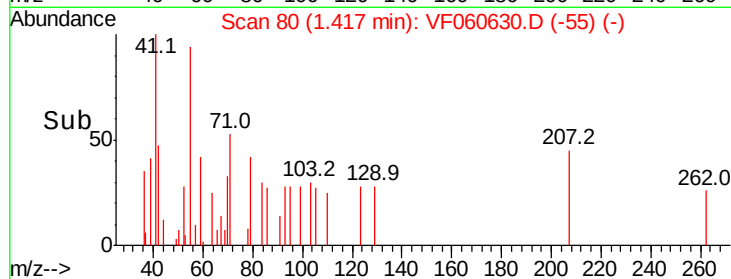
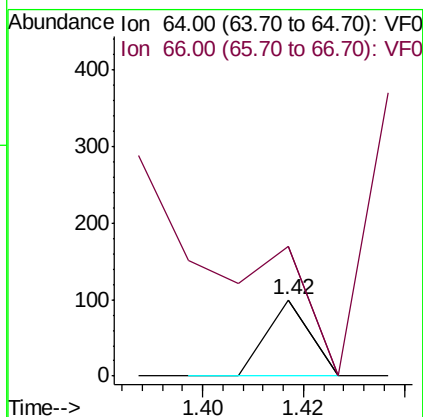
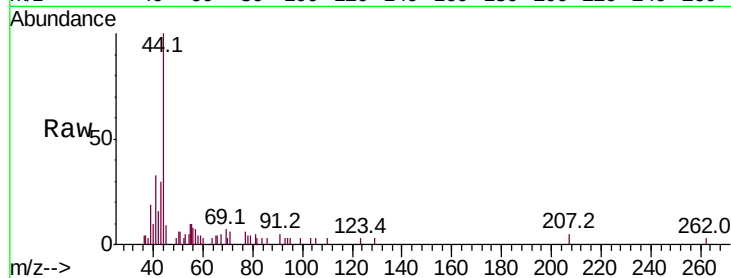
ClientSampleId :

Tot Ion: 64 Resp: 59

Ion Ratio Lower Upper

64 100

66 169.0 27.8 41.8#



#8

Diethyl Ether

Concen: 2.104 ug/l

RT: 1.63 min Scan# 102

Delta R.T. 0.00 min

Lab File: VF060630.D

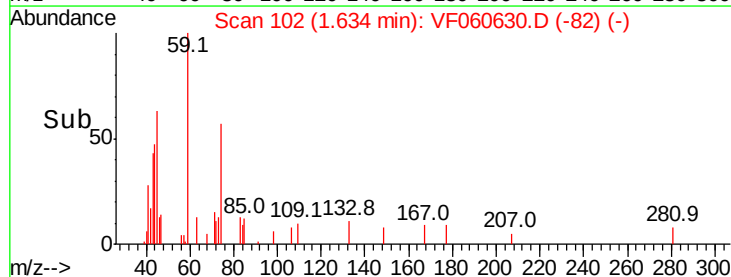
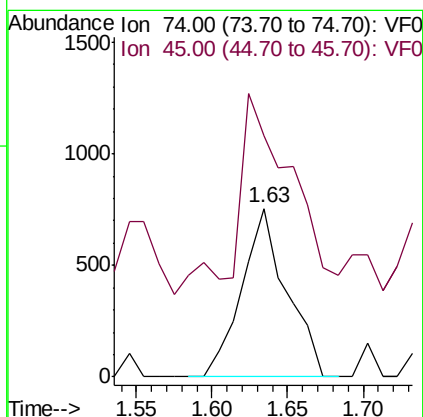
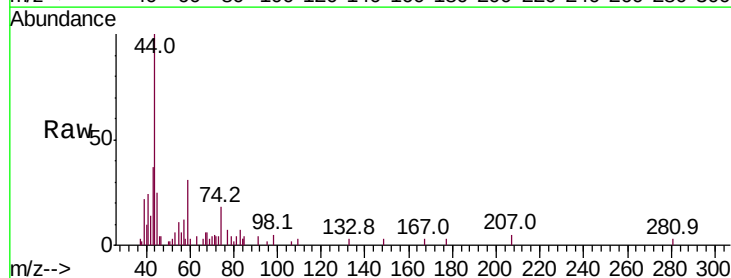
Acq: 7 Nov 2018 15:48

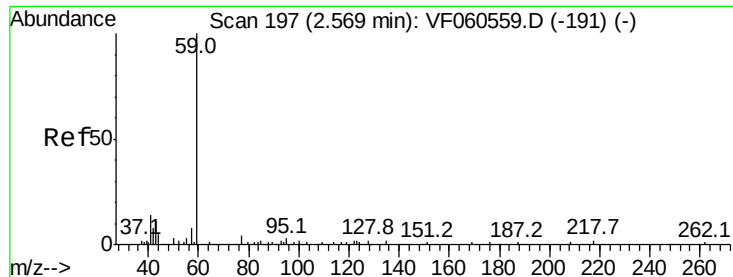
Tgt Ion: 74 Resp: 1563

Ion Ratio Lower Upper

74 100

45 143.4 63.8 191.5

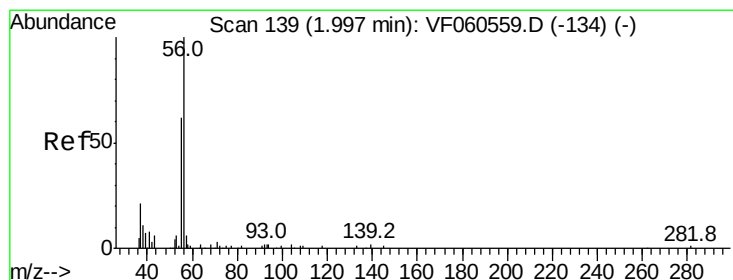
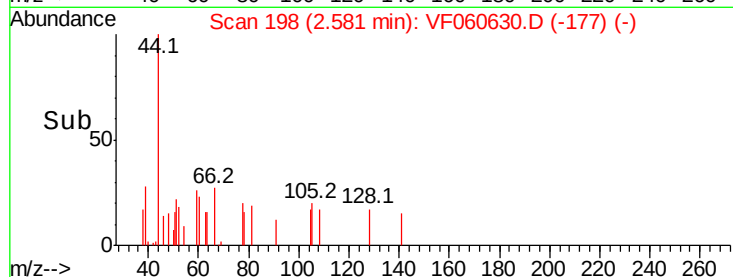
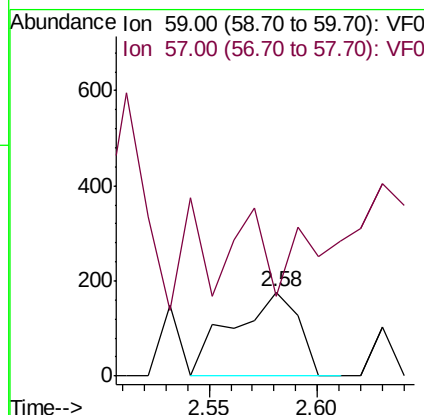
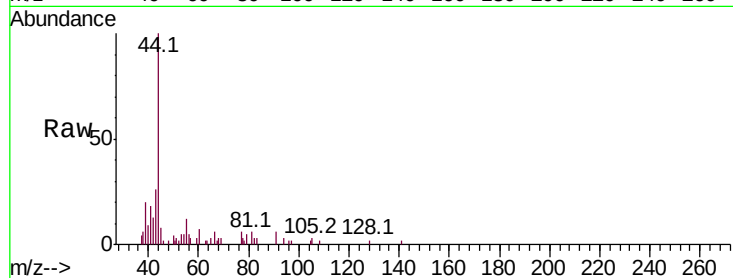




#11
Tert butyl alcohol
Concen: Below Cal
RT: 2.58 min Scan# 198
Delta R.T. 0.01 min
Lab File: VF060630.D
Acq: 7 Nov 2018 15:48

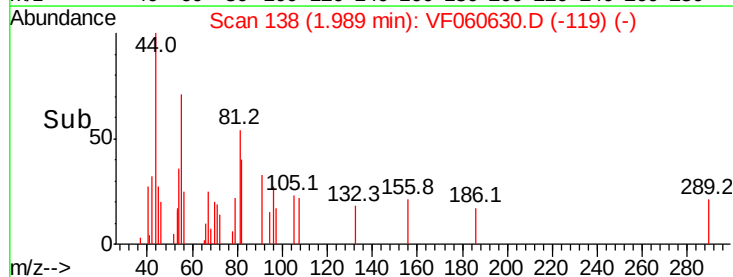
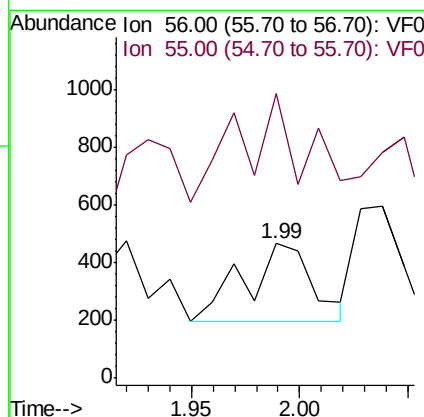
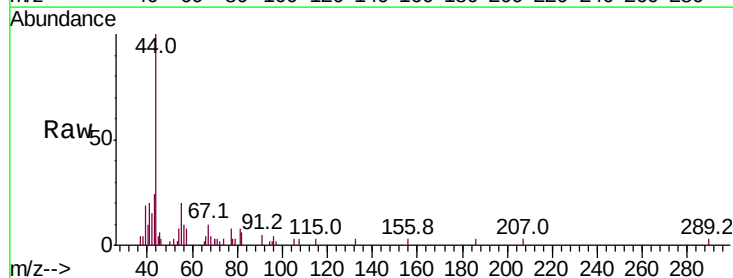
Instrument :
MSVOA_F
ClientSampleId :

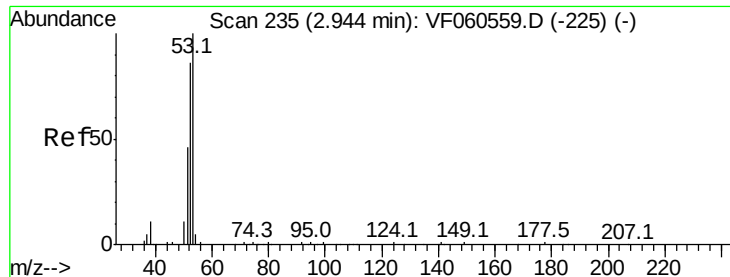
Tot Ion: 59 Resp: 373
Ion Ratio Lower Upper
59 100
57 95.5 19.0 28.4#



#13
Acrolein
Concen: Below Cal
RT: 1.99 min Scan# 138
Delta R.T. -0.01 min
Lab File: VF060630.D
Acq: 7 Nov 2018 15:48

Tgt Ion: 56 Resp: 589
Ion Ratio Lower Upper
56 100
55 212.3 61.8 92.6#





#15

Acrylonitrile

Concen: 1.826 ug/l

RT: 3.01 min Scan# 242

Delta R.T. 0.07 min

Lab File: VF060630.D

Acq: 7 Nov 2018 15:48

Instrument :
MSVOA_F
ClientSampleId :

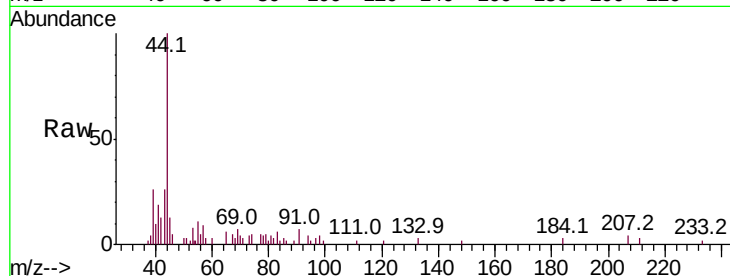
Tot Ion: 53 Resp: 584

Ion Ratio Lower Upper

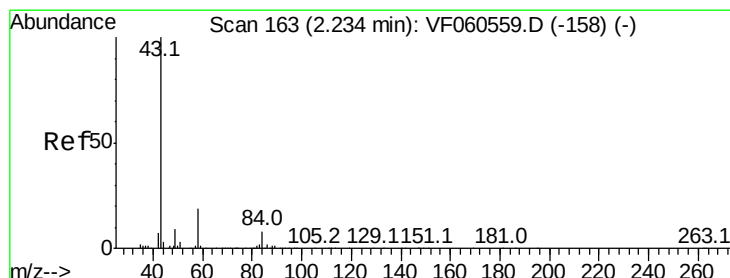
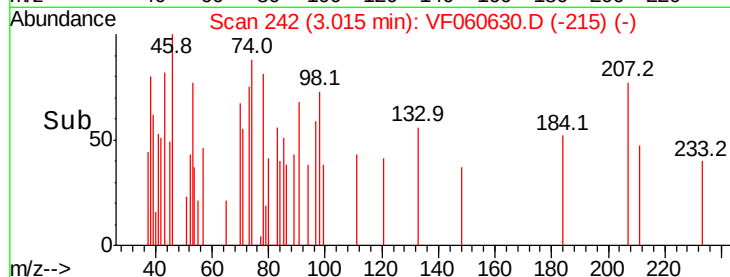
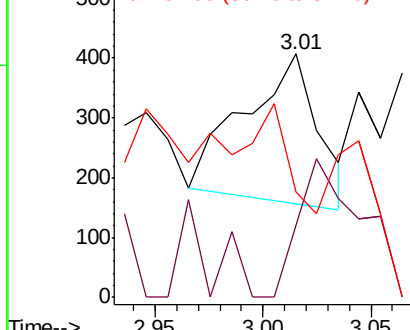
53 100

52 23.7 68.5 102.7#

51 34.4 38.2 57.2#



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: 32.705 ug/l

RT: 2.25 min Scan# 164

Delta R.T. 0.01 min

Lab File: VF060630.D

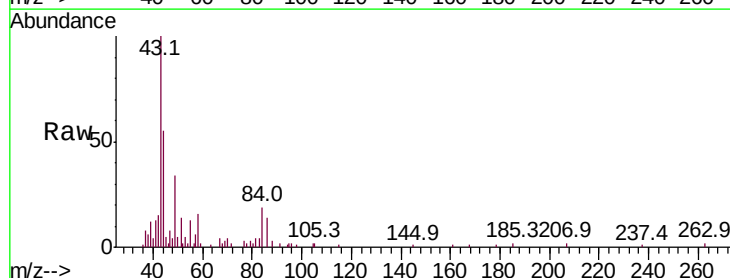
Acq: 7 Nov 2018 15:48

Tgt Ion: 43 Resp: 20676

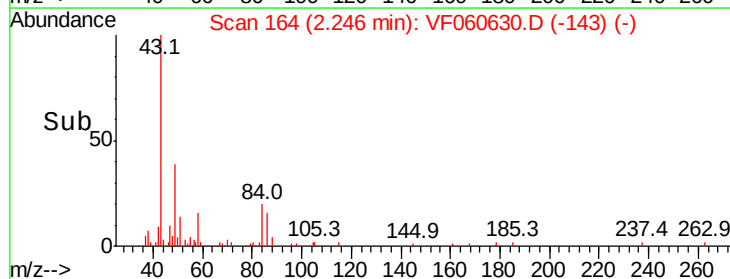
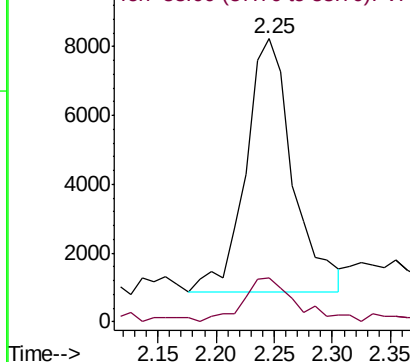
Ion Ratio Lower Upper

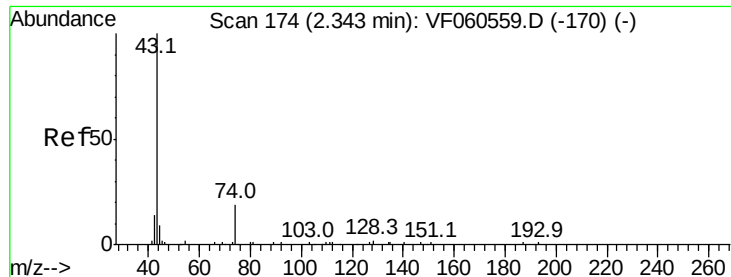
43 100

58 15.8 14.6 22.0



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0

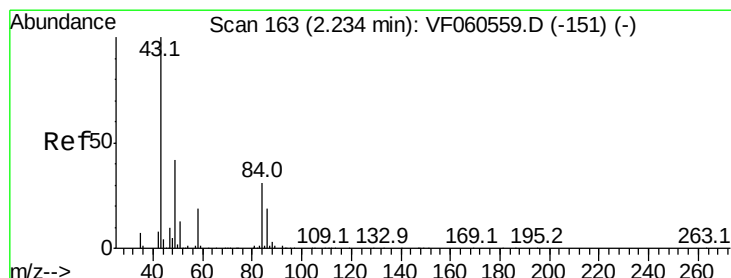
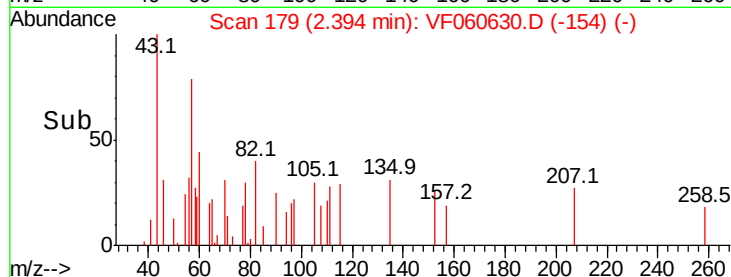
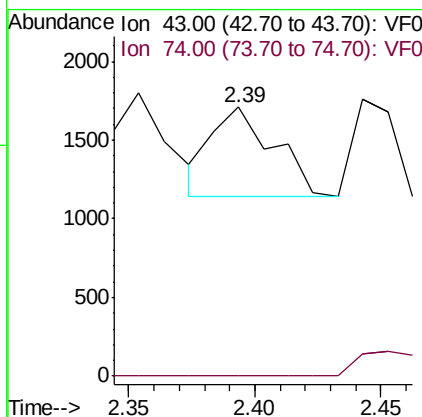
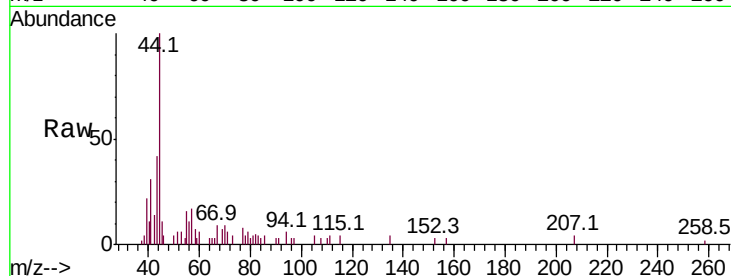




#18
Methyl Acetate
Concen: 1.458 ug/l
RT: 2.39 min Scan# 179
Delta R.T. 0.05 min
Lab File: VF060630.D
Acq: 7 Nov 2018 15:48

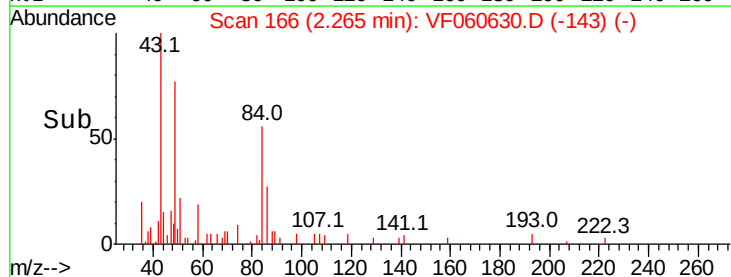
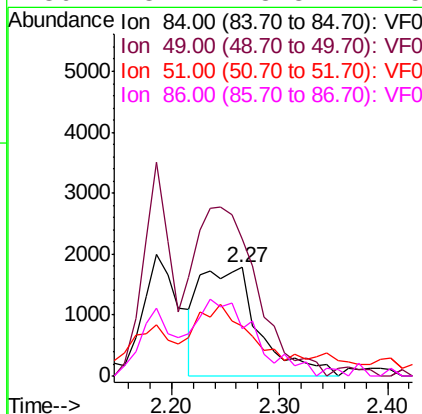
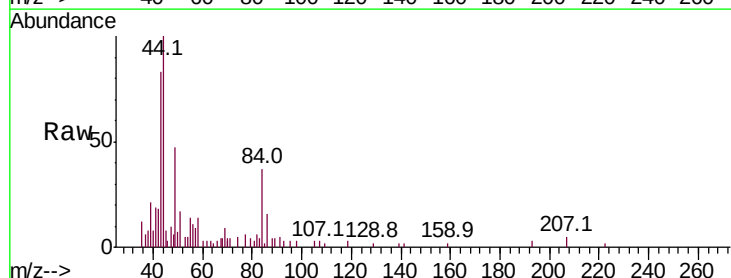
Instrument :
MSVOA_F
ClientSampled :

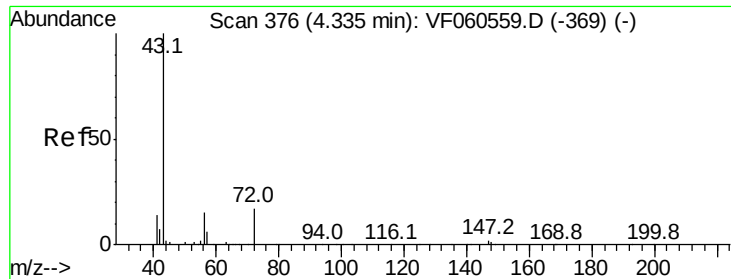
Tot Ion: 43 Resp: 971
Ion Ratio Lower Upper
43 100
74 0.0 12.1 18.1#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.27 min Scan# 166
Delta R.T. 0.03 min
Lab File: VF060630.D
Acq: 7 Nov 2018 15:48

Tgt Ion: 84 Resp: 6771
Ion Ratio Lower Upper
84 100
49 125.9 109.9 164.9
51 46.1 35.8 53.8
86 43.2 48.3 72.5#





#25

2-Butanone

Concen: Below Cal

RT: 4.35 min Scan# 377

Delta R.T. 0.01 min

Lab File: VF060630.D

Acq: 7 Nov 2018 15:48

Instrument :

MSVOA_F

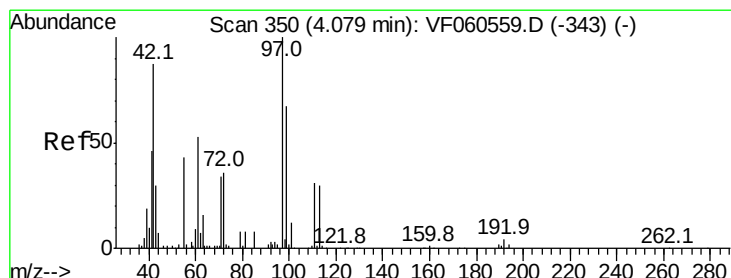
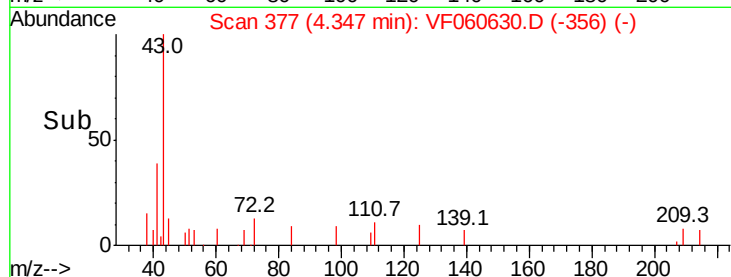
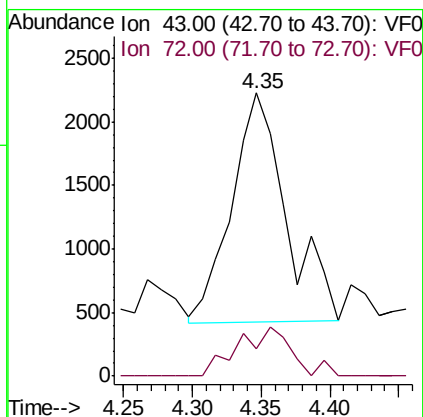
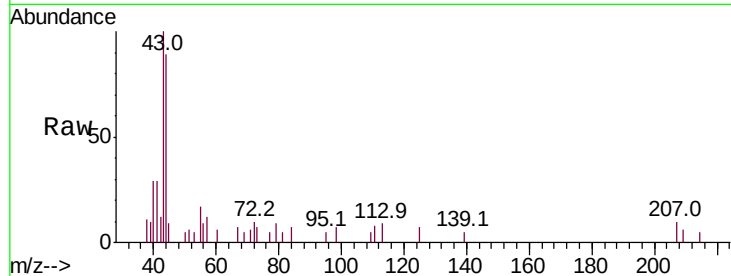
ClientSampled :

Tot Ion: 43 Resp: 5005

Ion Ratio Lower Upper

43 100

72 9.8 16.2 24.2#



#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.08 min Scan# 350

Delta R.T. 0.00 min

Lab File: VF060630.D

Acq: 7 Nov 2018 15:48

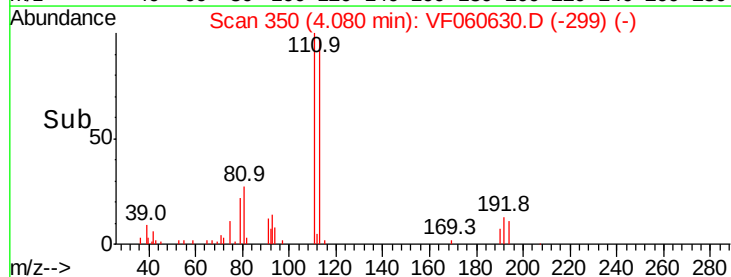
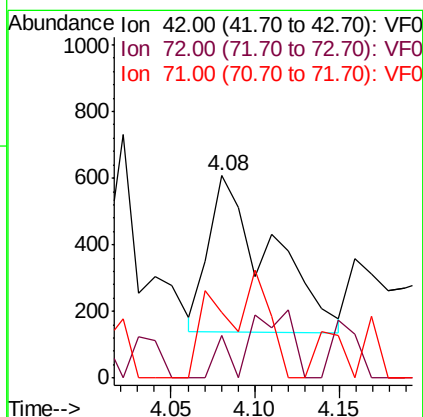
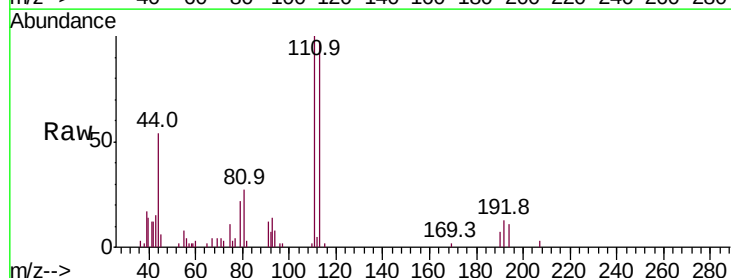
Tgt Ion: 42 Resp: 1200

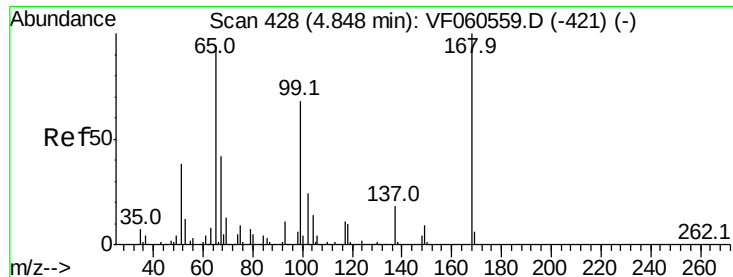
Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.0#

71 29.6 31.8 47.6#





#33

1,2-Dichloroethane-d4

Concen: 61.109 ug/l

RT: 4.86 min Scan# 429

Delta R.T. 0.01 min

Lab File: VF060630.D

Acq: 7 Nov 2018 15:48

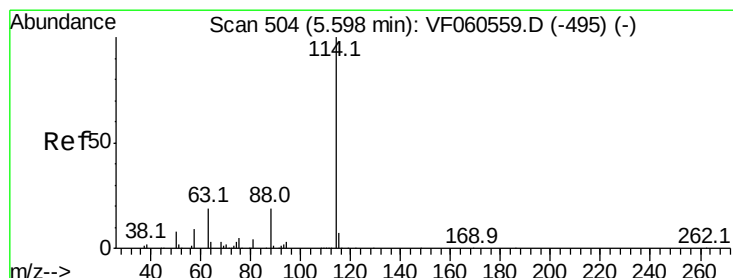
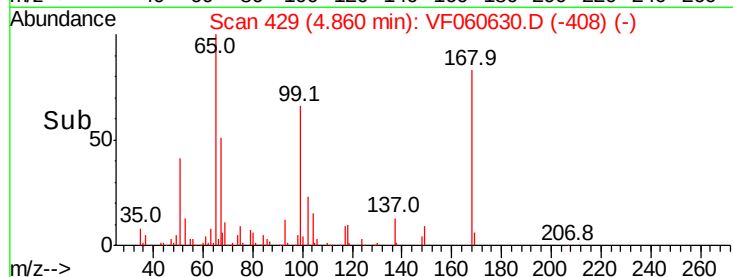
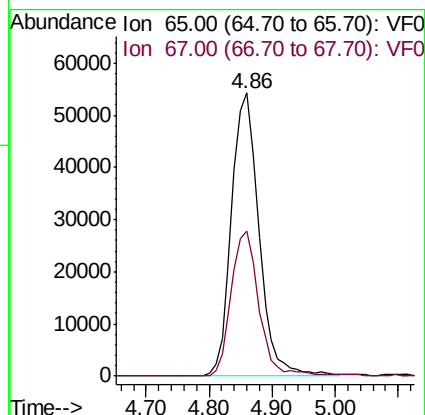
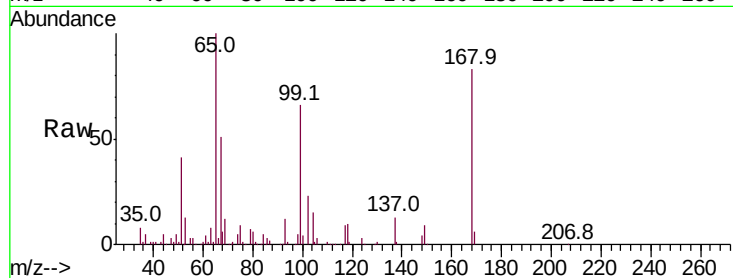
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 65 Resp: 163947

Ion Ratio Lower Upper

65 100

67 51.4 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.61 min Scan# 505

Delta R.T. 0.01 min

Lab File: VF060630.D

Acq: 7 Nov 2018 15:48

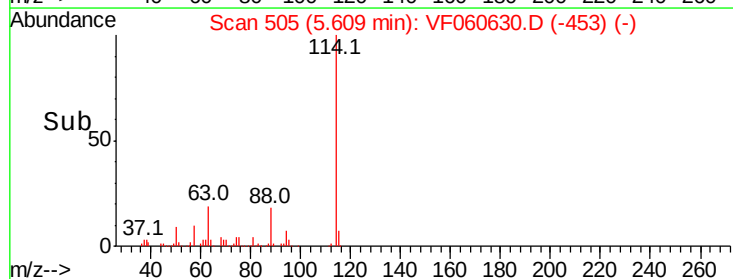
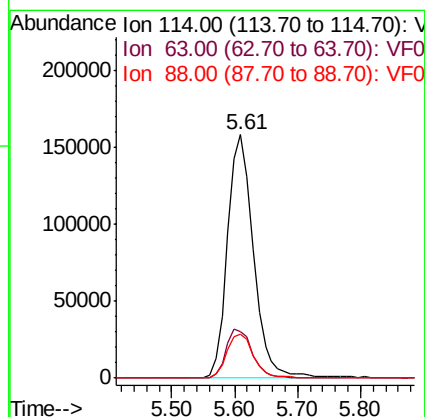
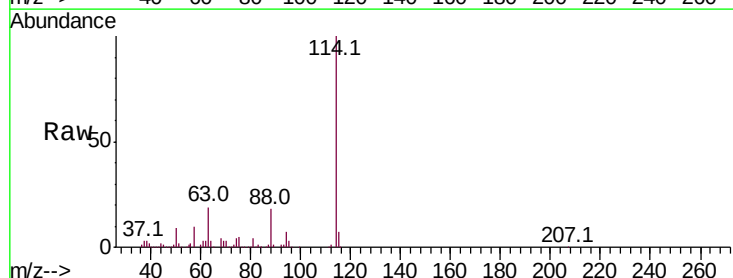
Tgt Ion: 114 Resp: 452007

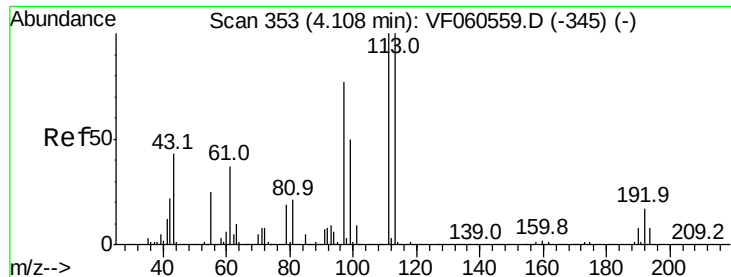
Ion Ratio Lower Upper

114 100

63 19.0 0.0 39.0

88 17.9 0.0 38.2

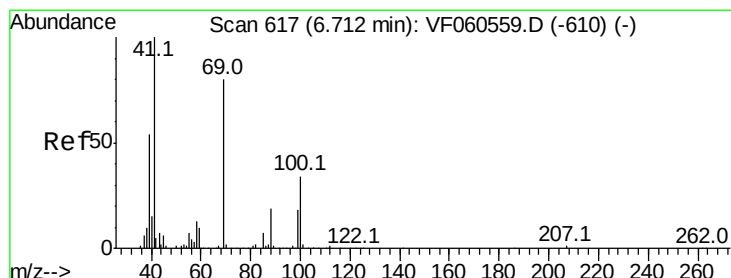
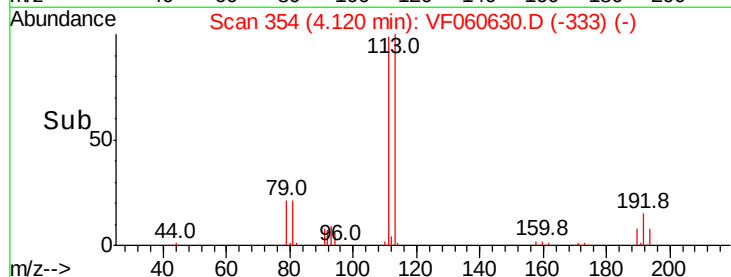
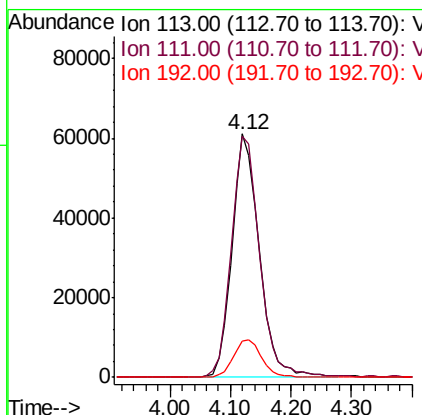
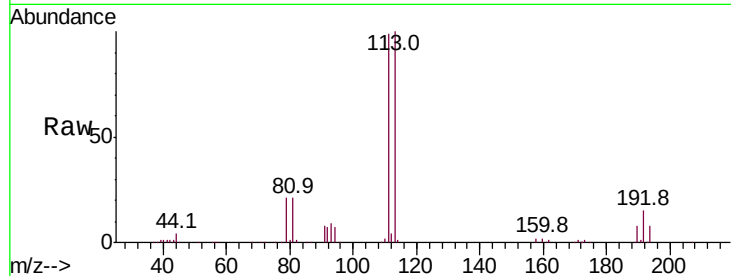




#35
 Dibromofluoromethane
 Concen: 54.749 ug/l
 RT: 4.12 min Scan# 354
 Delta R.T. 0.01 min
 Lab File: VF060630.D
 Acq: 7 Nov 2018 15:48

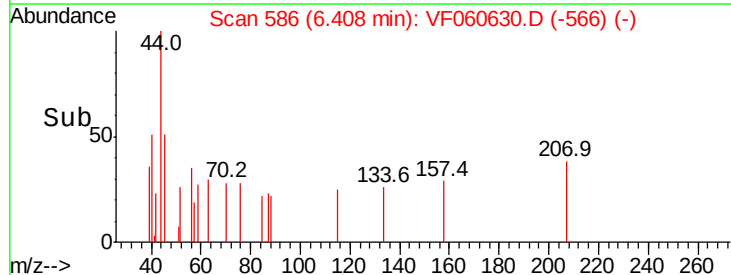
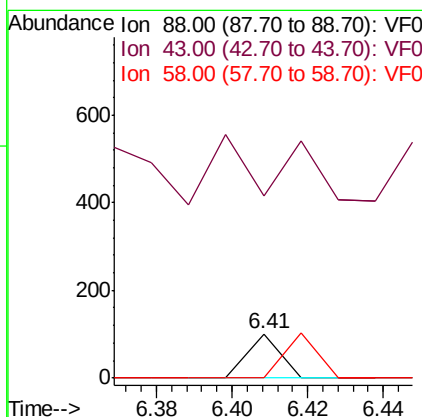
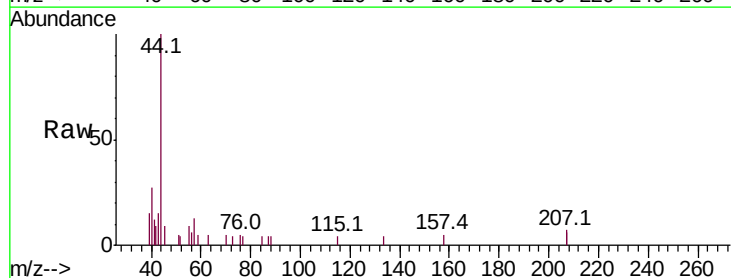
Instrument :
 MSVOA_F
 ClientSampled :

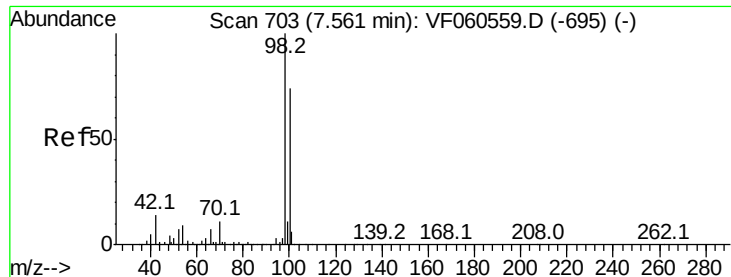
Tot Ion	Ratio	Lower	Upper
113	100		
111	99.1	79.9	119.9
192	15.1	13.3	19.9



#49
 1,4-Dioxane
 Concen: 3.020 ug/l
 RT: 6.41 min Scan# 586
 Delta R.T. -0.30 min
 Lab File: VF060630.D
 Acq: 7 Nov 2018 15:48

Tgt Ion	Ratio	Lower	Upper
88	100		
43	410.9	61.2	91.8#
58	0.0	56.9	85.3#





#50

Toluene-d8

Concen: 46.649 ug/l

RT: 7.56 min Scan# 703

Delta R.T. 0.00 min

Lab File: VF060630.D

Acq: 7 Nov 2018 15:48

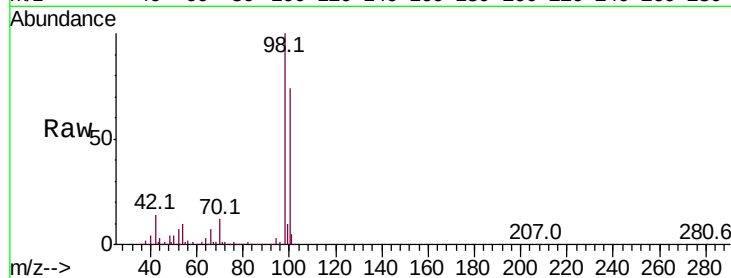
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 98 Resp: 482585

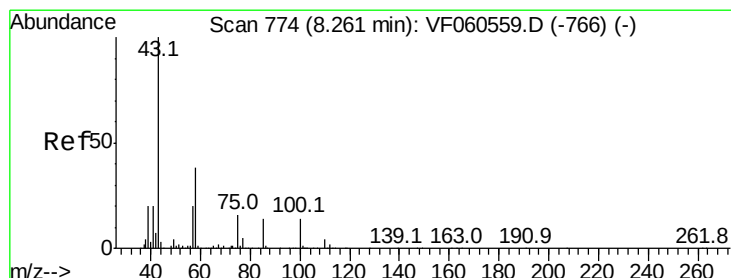
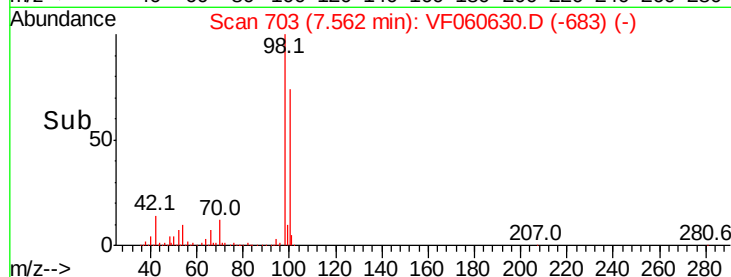
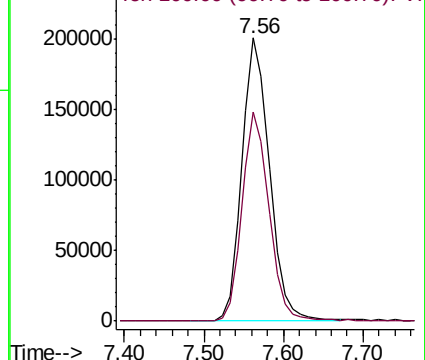
Ion Ratio Lower Upper

98 100

100 73.7 59.4 89.2



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: 1.202 ug/l

RT: 8.27 min Scan# 775

Delta R.T. 0.01 min

Lab File: VF060630.D

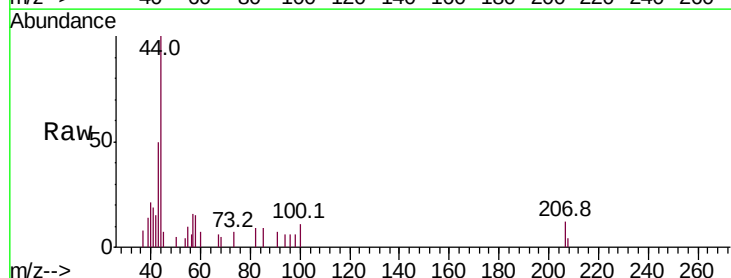
Acq: 7 Nov 2018 15:48

Tgt Ion: 43 Resp: 2442

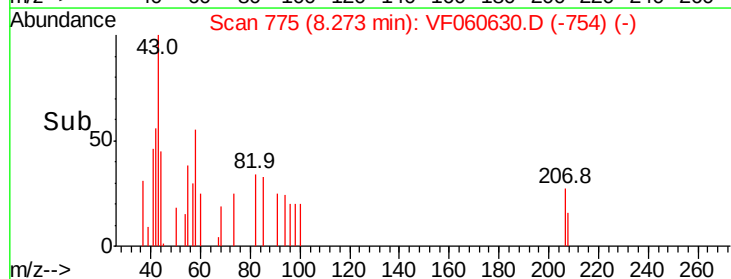
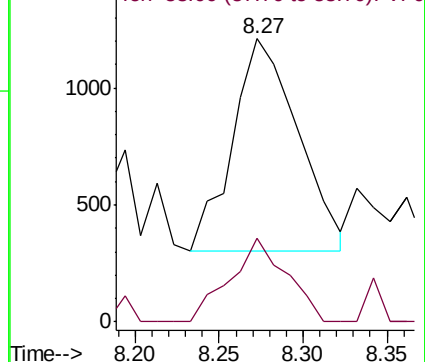
Ion Ratio Lower Upper

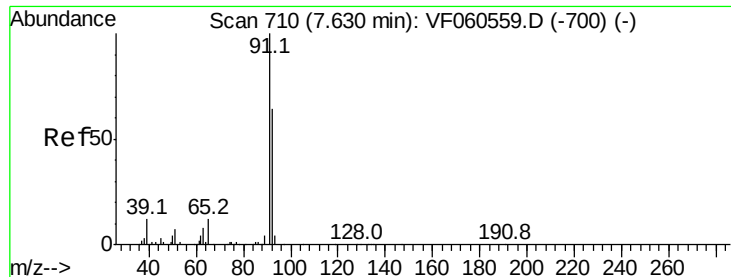
43 100

58 29.7 30.1 45.1#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0





#52

Toluene

Concen: 1.211 ug/l

RT: 7.64 min Scan# 711

Delta R.T. 0.01 min

Lab File: VF060630.D

Acq: 7 Nov 2018 15:48

Instrument :

MSVOA_F

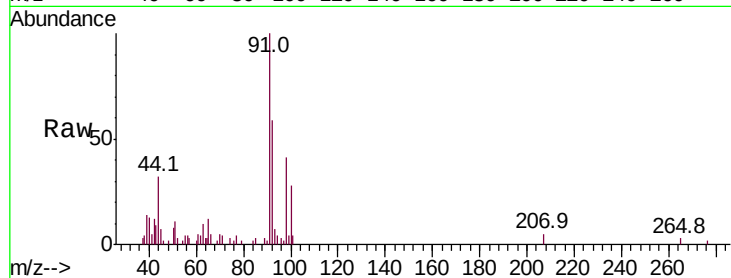
ClientSampleId :

Tot Ion: 92 Resp: 9532

Ion Ratio Lower Upper

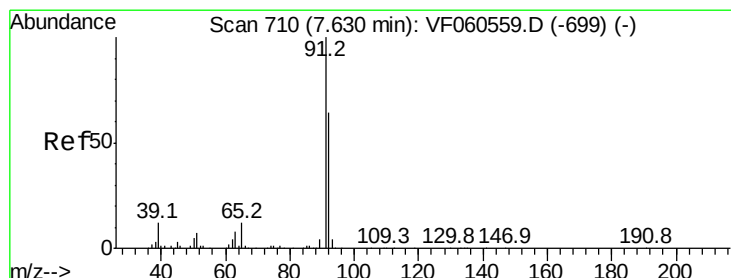
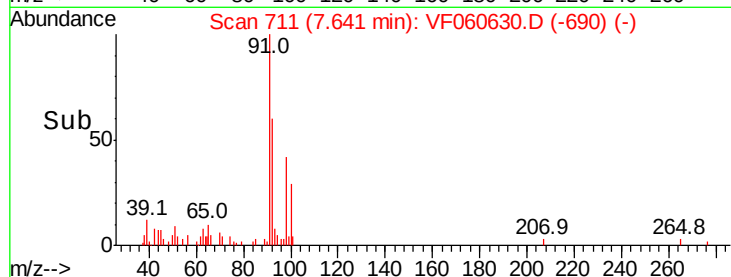
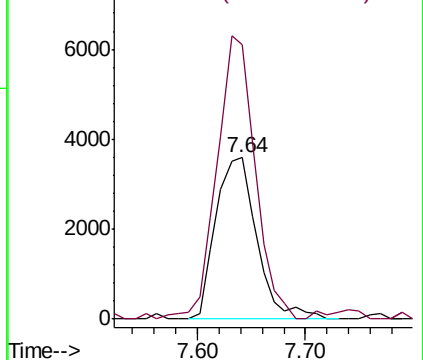
92 100

91 169.8 124.5 186.7



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: Below Cal

RT: 7.63 min Scan# 710

Delta R.T. 0.00 min

Lab File: VF060630.D

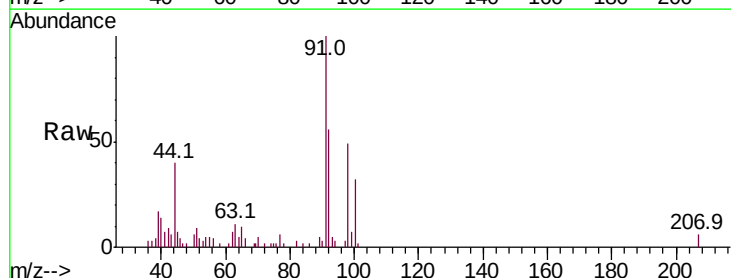
Acq: 7 Nov 2018 15:48

Tgt Ion: 63 Resp: 1624

Ion Ratio Lower Upper

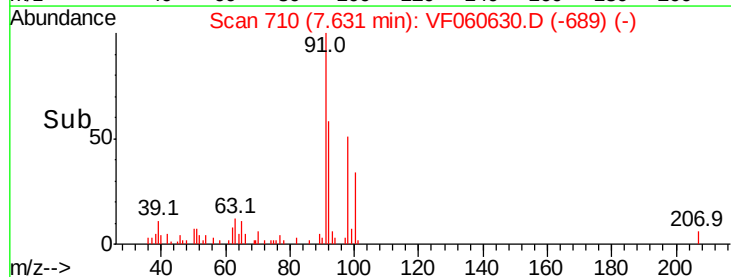
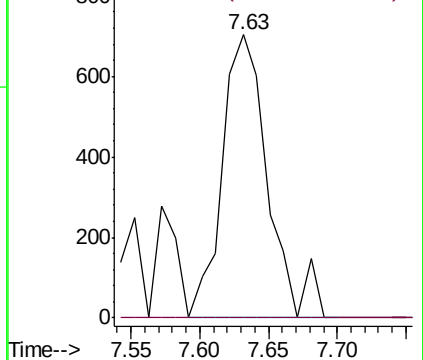
63 100

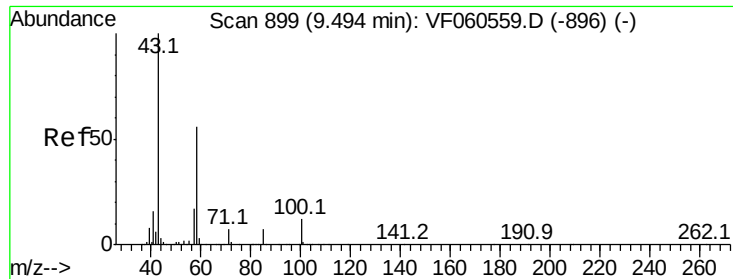
106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

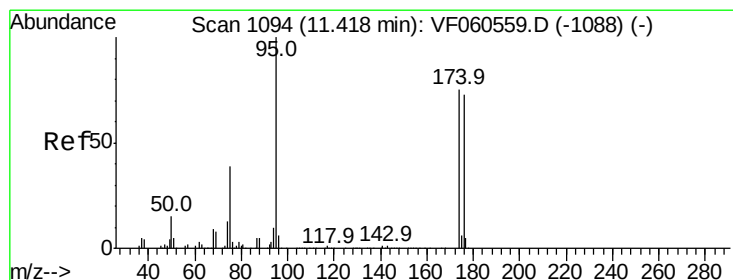
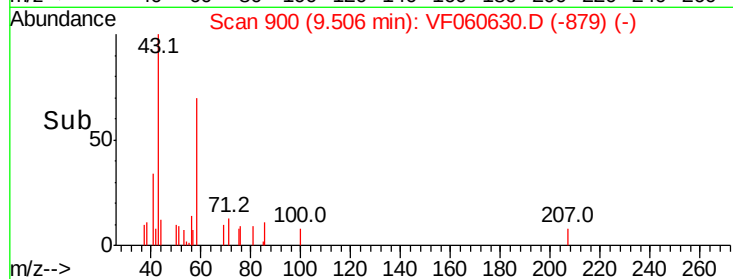
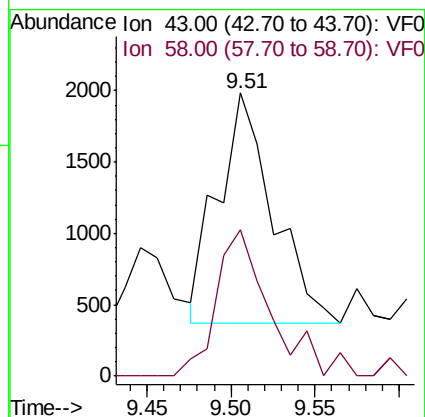
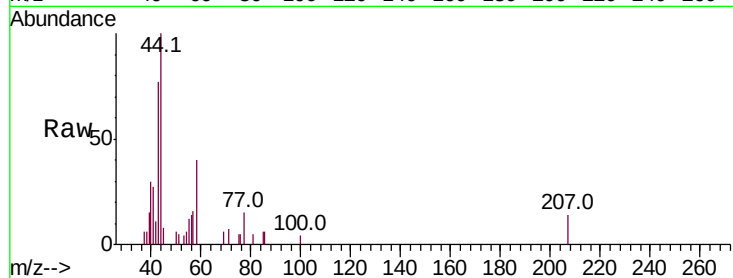




#59
2-Hexanone
Concen: Below Cal
RT: 9.51 min Scan# 900
Delta R.T. 0.01 min
Lab File: VF060630.D
Acq: 7 Nov 2018 15:48

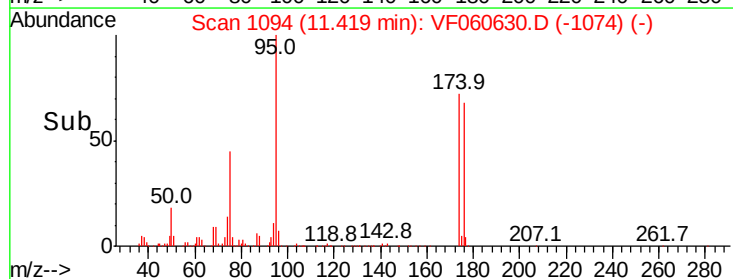
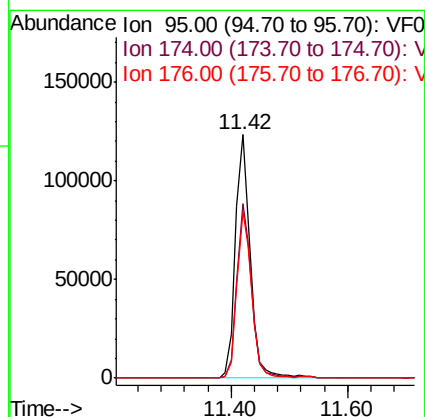
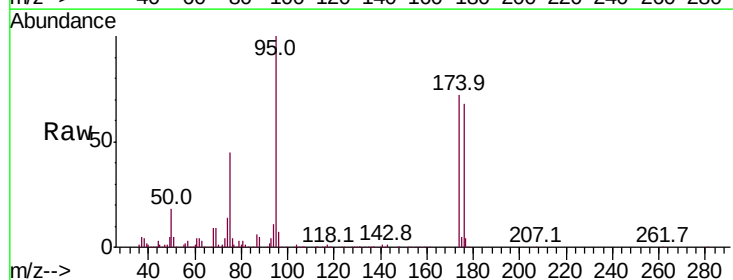
Instrument :
MSVOA_F
ClientSampled :

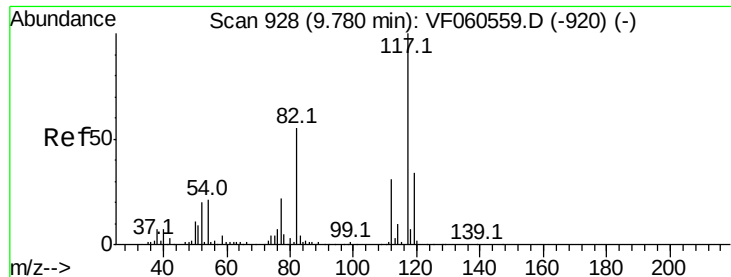
Tot Ion: 43 Resp: 3693
Ion Ratio Lower Upper
43 100
58 51.8 26.1 78.3



#62
4-Bromofluorobenzene
Concen: 48.365 ug/l
RT: 11.42 min Scan# 1094
Delta R.T. 0.00 min
Lab File: VF060630.D
Acq: 7 Nov 2018 15:48

Tgt Ion: 95 Resp: 218853
Ion Ratio Lower Upper
95 100
174 71.6 0.0 149.0
176 68.3 0.0 145.6

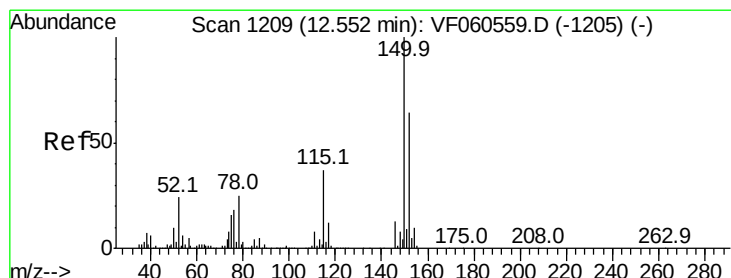
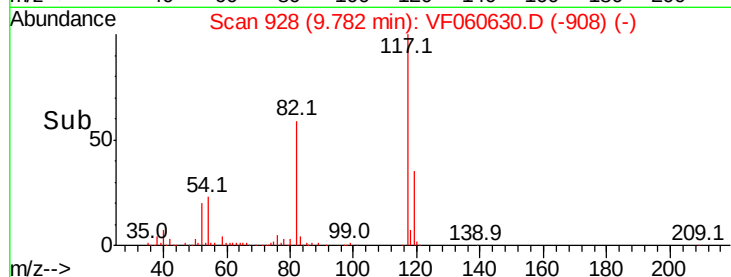
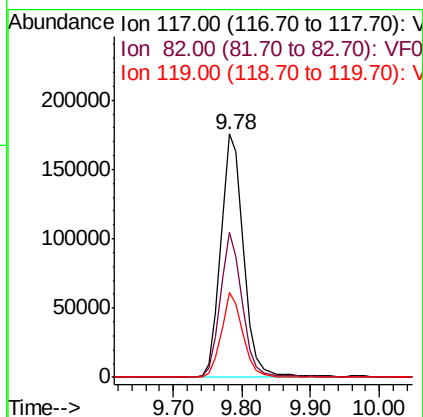
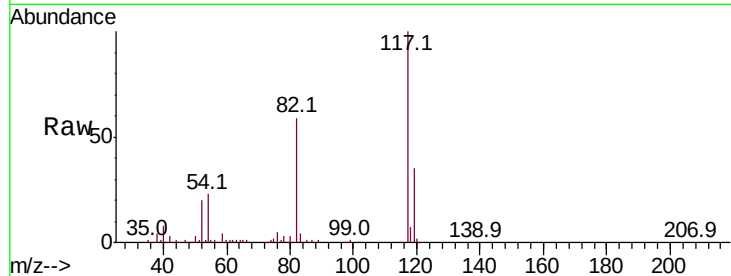




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. 0.00 min
Lab File: VF060630.D
Acq: 7 Nov 2018 15:48

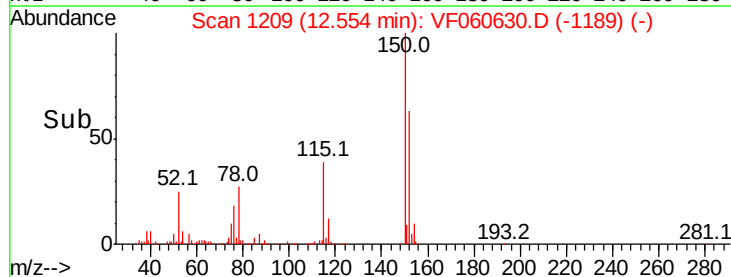
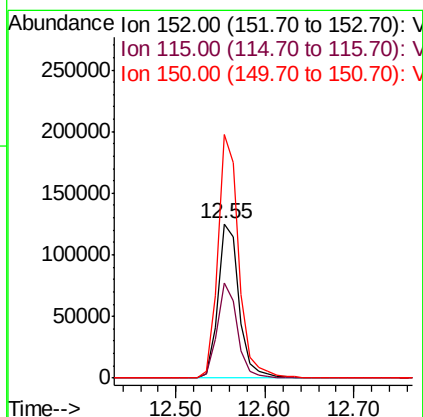
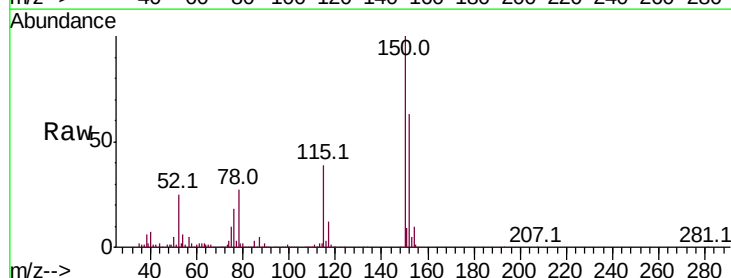
Instrument :
MSVOA_F
ClientSampleId :

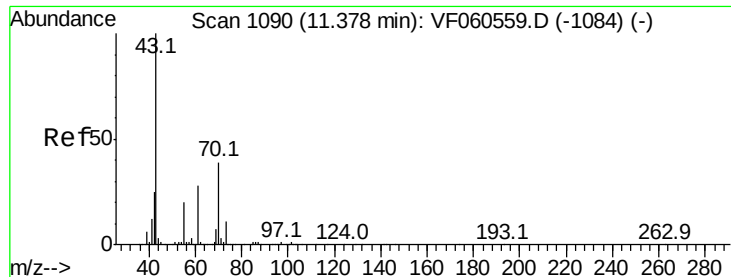
Tot Ion:117 Resp: 403192
Ion Ratio Lower Upper
117 100
82 59.3 43.9 65.9
119 34.8 27.4 41.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. 0.00 min
Lab File: VF060630.D
Acq: 7 Nov 2018 15:48

Tgt Ion:152 Resp: 208678
Ion Ratio Lower Upper
152 100
115 61.9 29.6 88.8
150 157.9 0.0 315.6





#74
 N-amvl acetate
 Concen: Below Cal
 RT: 11.39 min Scan# 1091
 Delta R.T. 0.01 min
 Lab File: VF060630.D
 Acq: 7 Nov 2018 15:48

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion: 43 Resp: 2024
 Ion Ratio Lower Upper
 43 100
 70 33.1 30.9 46.3
 55 34.4 16.6 24.8#
 61 37.1 22.0 33.0#

