

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF110618\
 Data File : VF060611.D
 Acq On : 6 Nov 2018 13:55
 Operator : VA/AP
 Sample : VF1106SBL01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Nov 06 14:16:45 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	4.89	168	247273	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	5.62	114	431263	50.00	ug/l	0.03
63) Chlorobenzene-d5	9.80	117	391910	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.57	152	232254	50.00	ug/l	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.86	65	137622	55.08	ug/l	0.02
Spiked Amount				50.000		
			Recovery	=	110.16%	
35) Dibromofluoromethane	4.13	113	180321	54.12	ug/l	0.03
Spiked Amount				50.000		
			Recovery	=	108.24%	
50) Toluene-d8	7.58	98	486653	49.31	ug/l	0.02
Spiked Amount				50.000		
			Recovery	=	98.62%	
62) 4-Bromofluorobenzene	11.42	95	234546	54.33	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	108.66%	

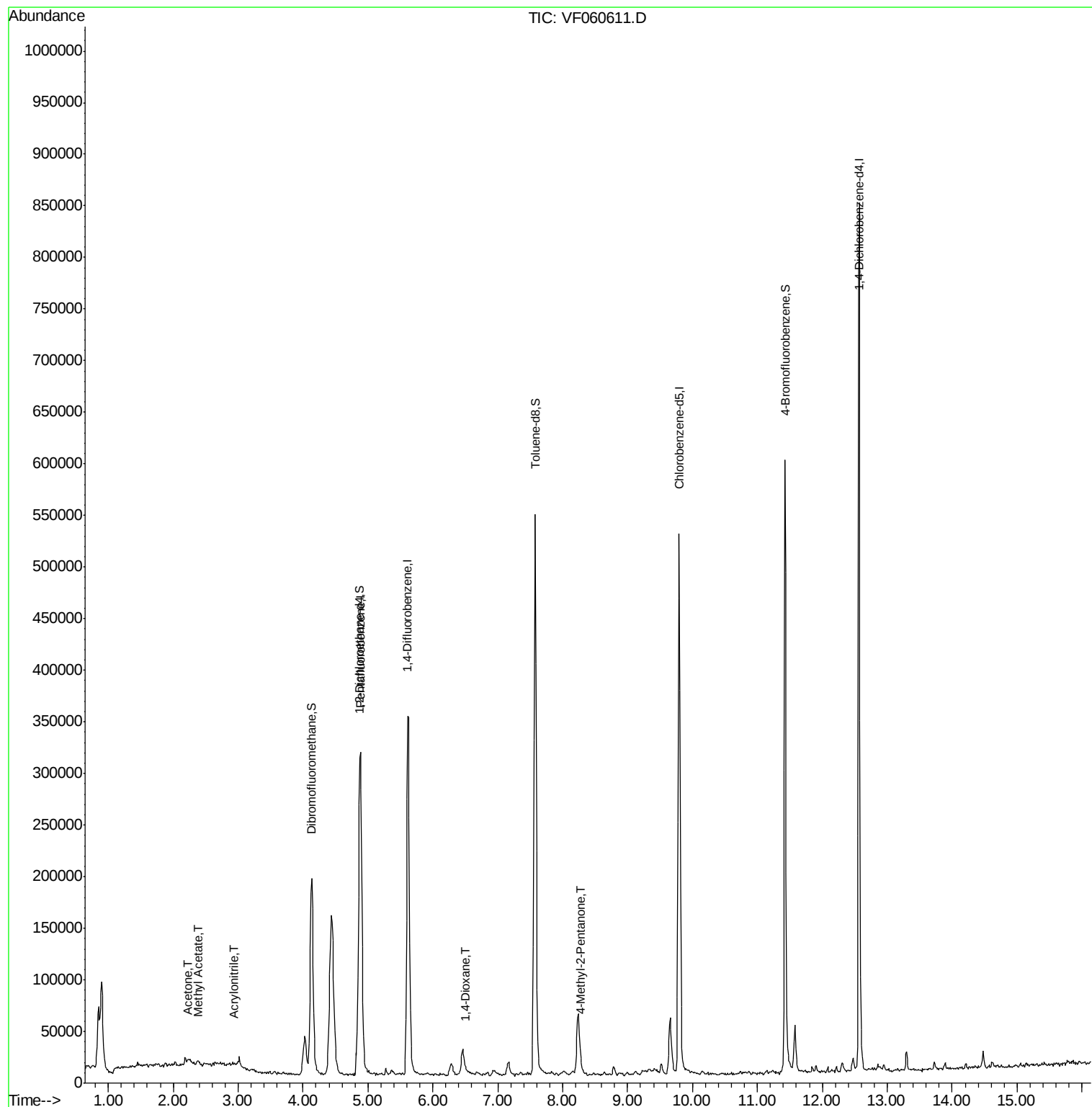
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.99	85	1387	Below Cal		99
6) Chloroethane	1.41	64	179	Below Cal	#	47
11) Tert butyl alcohol	2.60	59	311	Below Cal	#	1
13) Acrolein	2.02	56	659	Below Cal	#	35
15) Acrylonitrile	2.95	53	726	2.438	ug/l #	48
16) Acetone	2.24	43	3951	6.711	ug/l #	88
18) Methyl Acetate	2.39	43	2493	3.179	ug/l #	64
20) Methylene Chloride	2.19	84	3346	Below Cal	#	93
25) 2-Butanone	4.37	43	2505	Below Cal	#	80
29) Tetrahydrofuran	4.11	42	534	Below Cal	#	15
49) 1,4-Dioxane	6.51	88	65	3.429	ug/l #	1
51) 4-Methyl-2-Pentanone	8.29	43	6012	3.101	ug/l #	81
58) 2-Chloroethyl Vinyl ether	7.67	63	166	Below Cal		100
59) 2-Hexanone	9.53	43	7495	Below Cal		67
74) N-amyl acetate	11.38	43	3696	Below Cal	#	80
89) n-Butylbenzene	12.85	91	3051	Below Cal		79

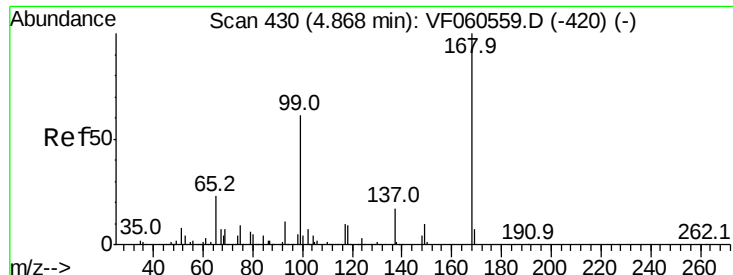
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Nov 03 05:29:31 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.89 min Scan# 432

Delta R.T. 0.03 min

Lab File: VF060611.D

Acq: 6 Nov 2018 13:55

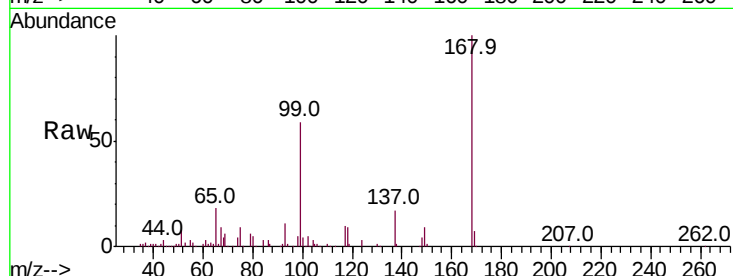
Instrument :
MSVOA_F
ClientSampled :

Tot Ion:168 Resp: 247273

Ion Ratio Lower Upper

168 100

99 59.2 48.6 72.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.89

80000

60000

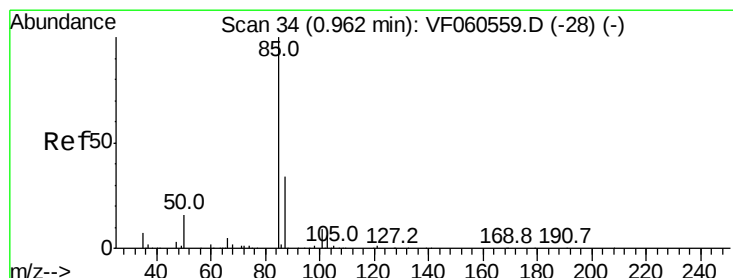
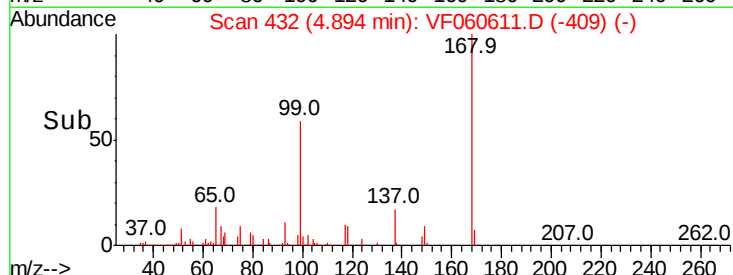
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.99 min Scan# 36

Delta R.T. 0.03 min

Lab File: VF060611.D

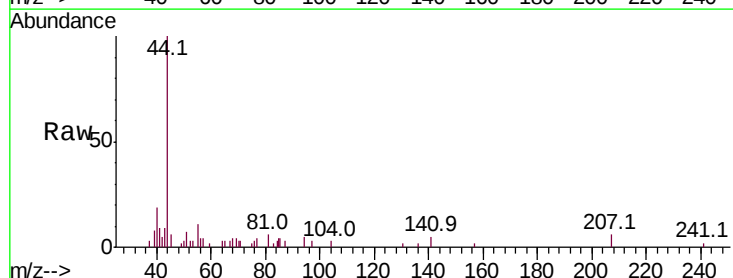
Acq: 6 Nov 2018 13:55

Tgt Ion: 85 Resp: 1387

Ion Ratio Lower Upper

85 100

87 33.4 16.9 50.7



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.99

400

300

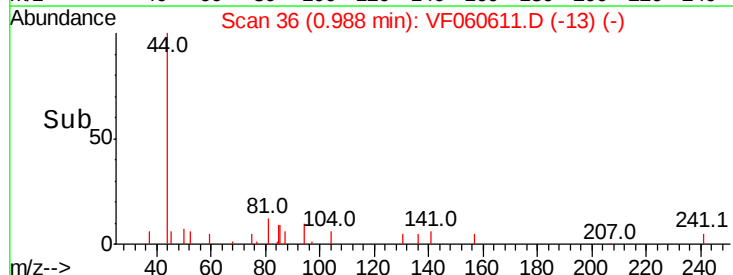
200

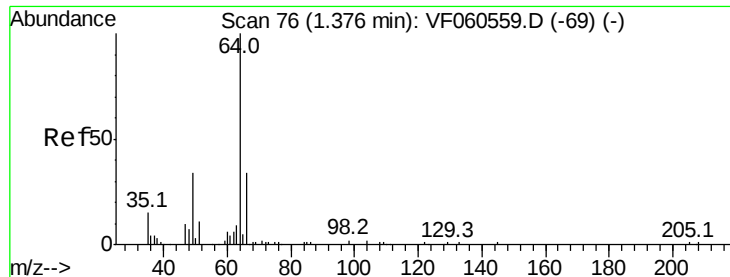
100

0

Time-->

0.90 1.00 1.10





#6

Chloroethane

Concen: Below Cal

RT: 1.41 min Scan# 79

Delta R.T. 0.04 min

Lab File: VF060611.D

Acq: 6 Nov 2018 13:55

Instrument :

MSVOA_F

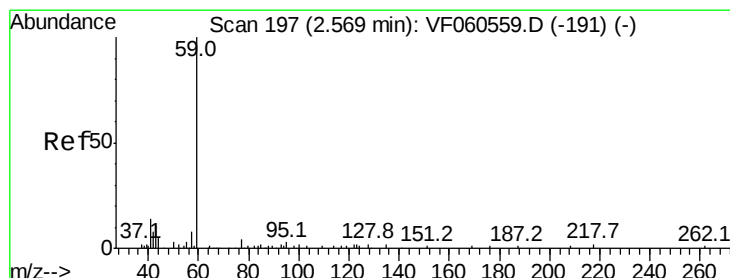
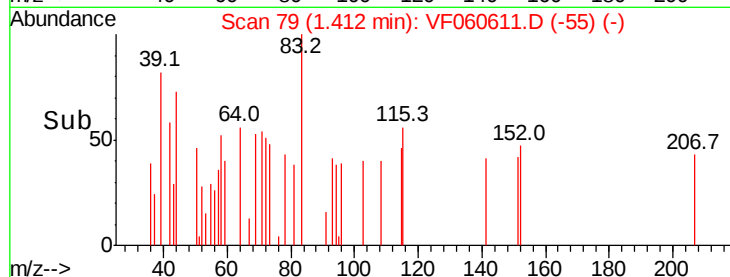
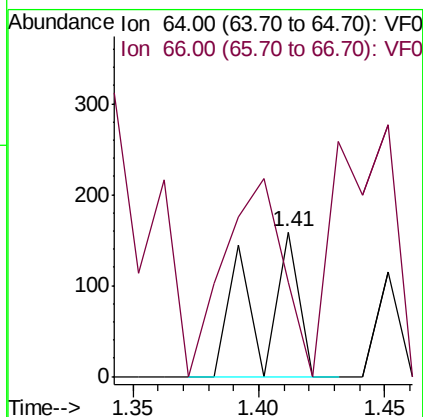
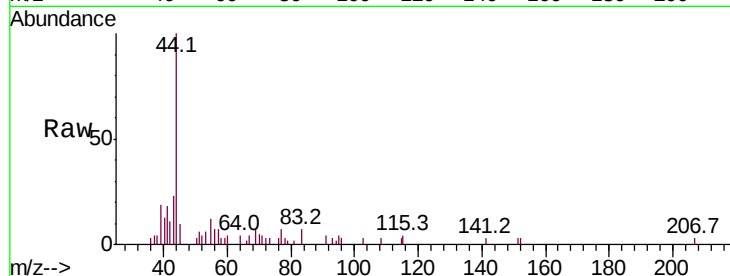
ClientSampled :

Tot Ion: 64 Resp: 179

Ion Ratio Lower Upper

64 100

66 65.4 27.8 41.8#



#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.60 min Scan# 199

Delta R.T. 0.03 min

Lab File: VF060611.D

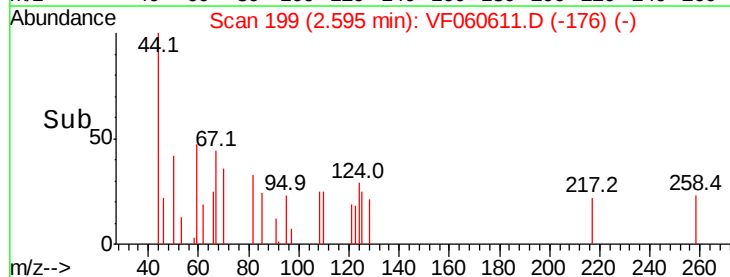
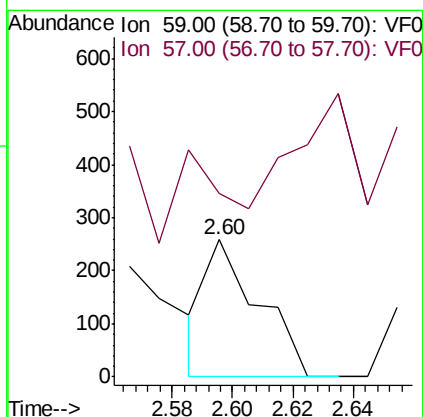
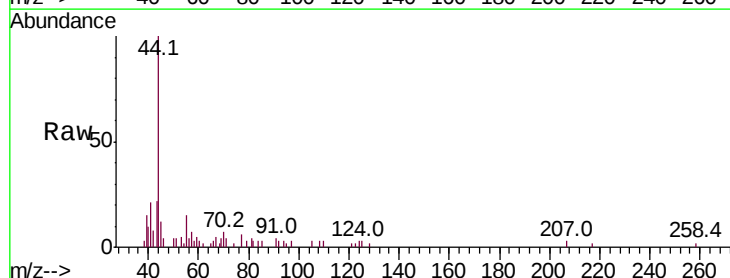
Acq: 6 Nov 2018 13:55

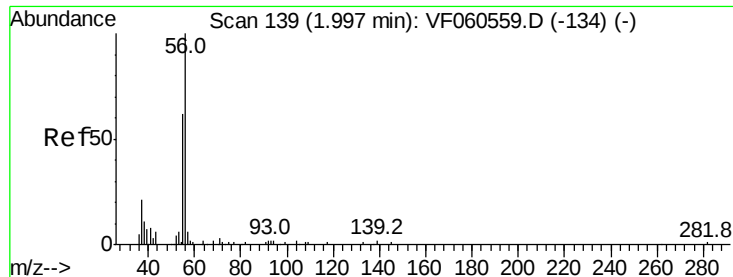
Tgt Ion: 59 Resp: 311

Ion Ratio Lower Upper

59 100

57 134.1 19.0 28.4#





#13

Acrolein

Concen: Below Cal

RT: 2.02 min Scan# 141

Delta R.T. 0.03 min

Lab File: VF060611.D

Acq: 6 Nov 2018 13:55

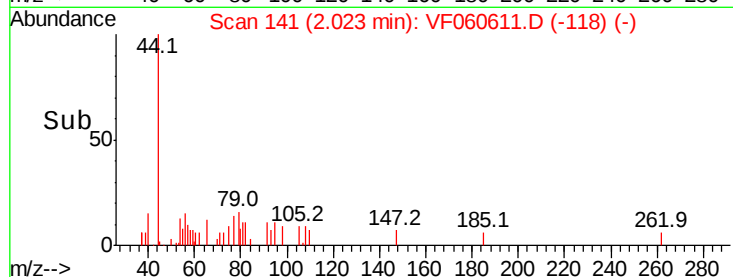
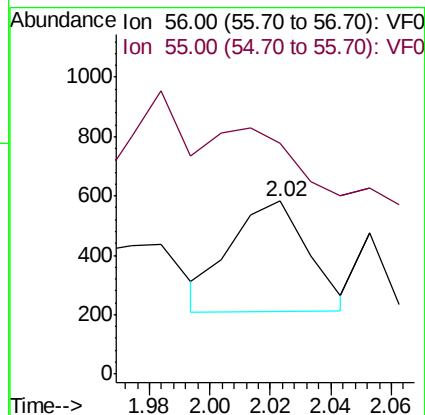
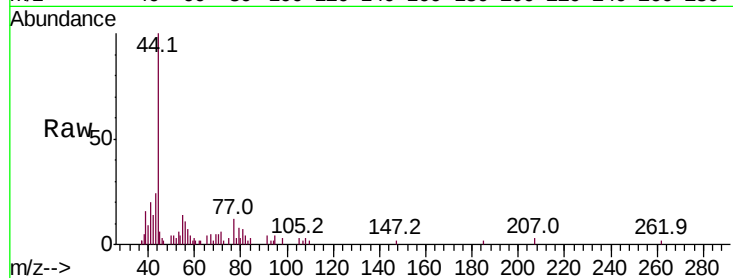
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 56 Resp: 659

Ion Ratio Lower Upper

56 100

55 133.3 61.8 92.6#



#15

Acrylonitrile

Concen: 2.438 ug/l

RT: 2.95 min Scan# 235

Delta R.T. 0.01 min

Lab File: VF060611.D

Acq: 6 Nov 2018 13:55

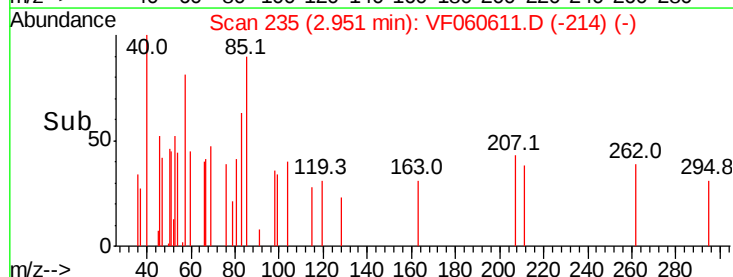
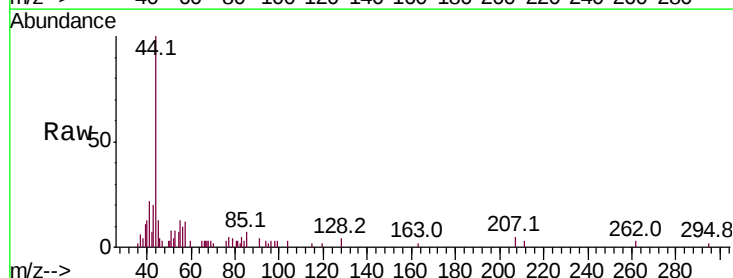
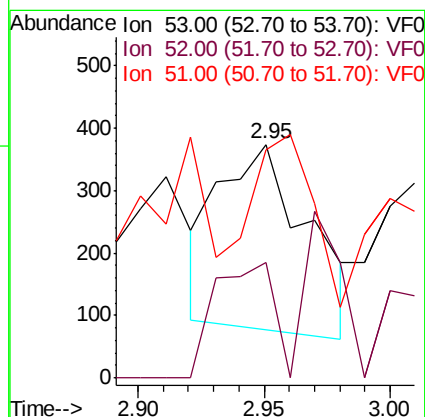
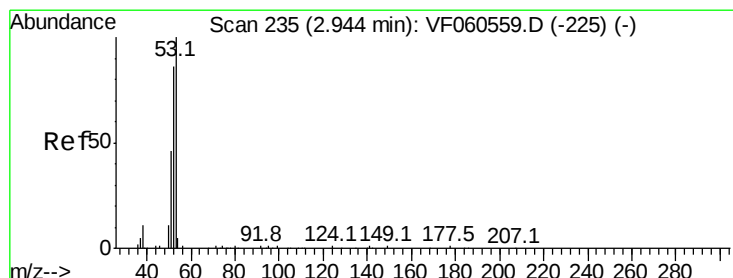
Tgt Ion: 53 Resp: 726

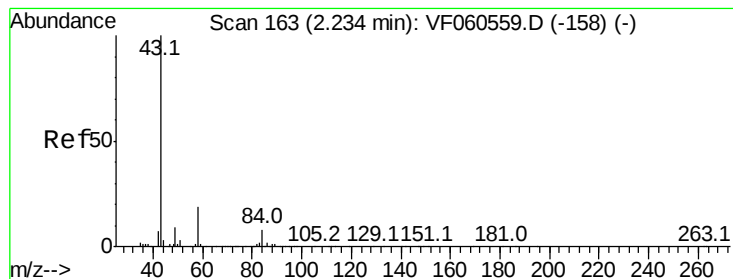
Ion Ratio Lower Upper

53 100

52 49.7 68.5 102.7#

51 97.9 38.2 57.2#





#16

Acetone

Concen: 6.711 ug/l

RT: 2.24 min Scan# 163

Delta R.T. 0.01 min

Lab File: VF060611.D

Acq: 6 Nov 2018 13:55

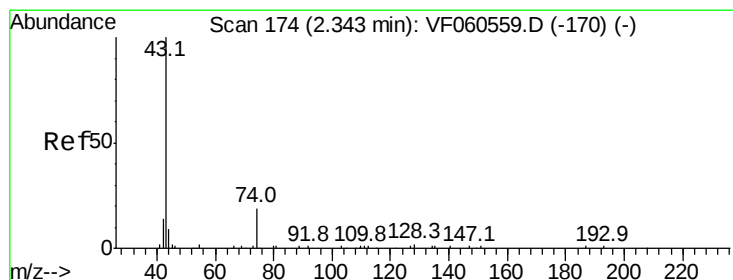
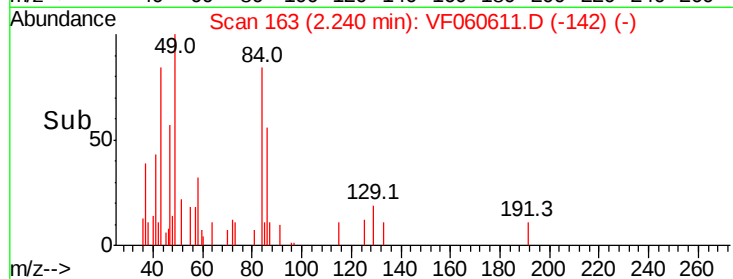
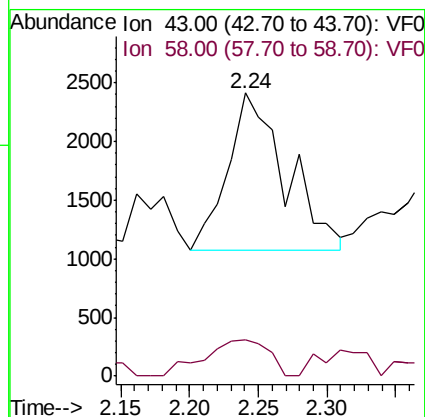
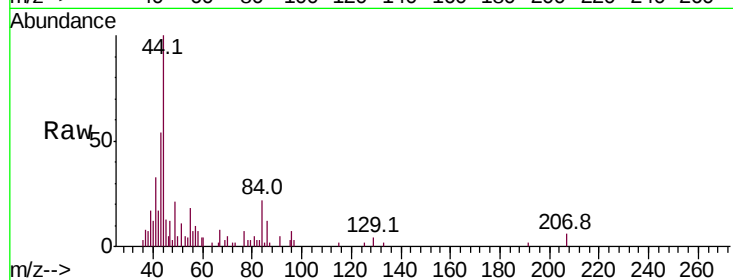
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 3951

Ion Ratio Lower Upper

43 100

58 12.8 14.6 22.0#



#18

Methyl Acetate

Concen: 3.179 ug/l

RT: 2.39 min Scan# 178

Delta R.T. 0.05 min

Lab File: VF060611.D

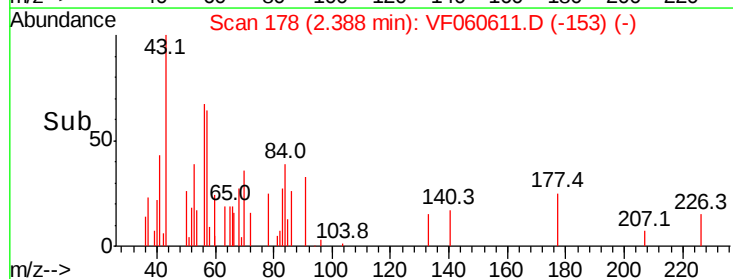
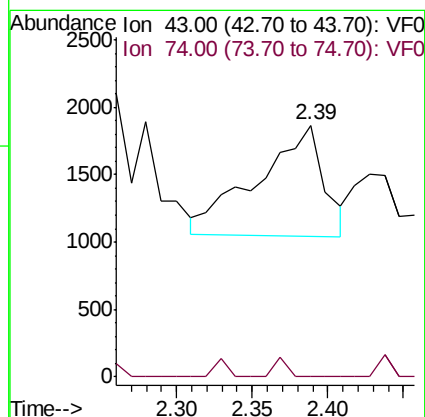
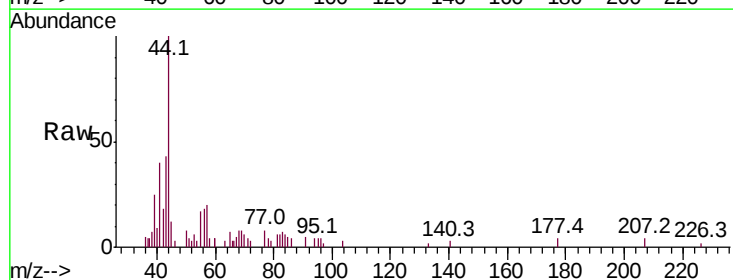
Acq: 6 Nov 2018 13:55

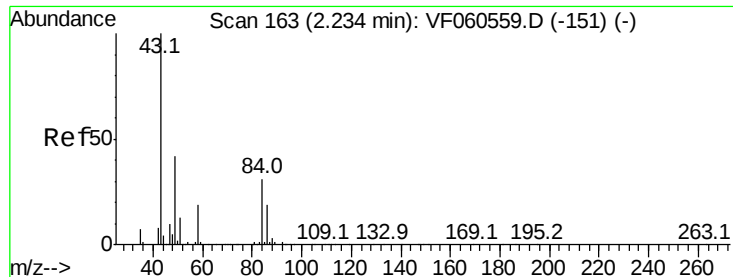
Tgt Ion: 43 Resp: 2493

Ion Ratio Lower Upper

43 100

74 0.0 12.1 18.1#



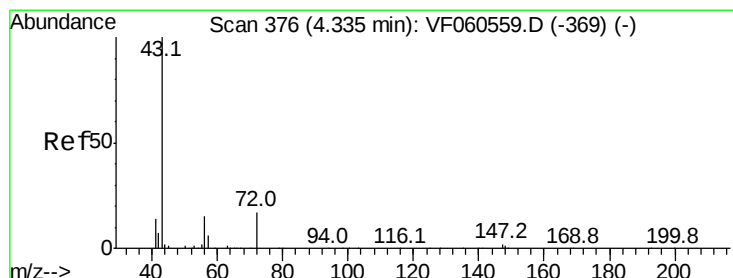
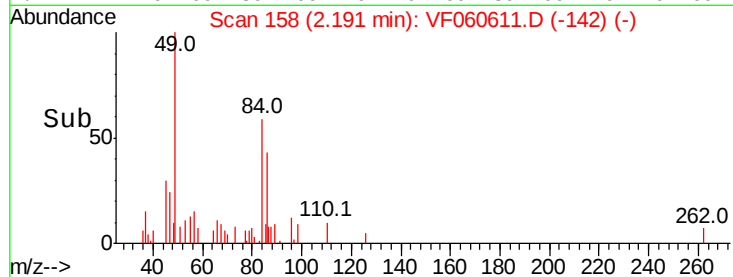
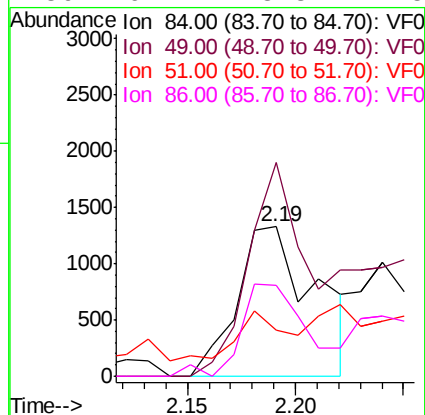
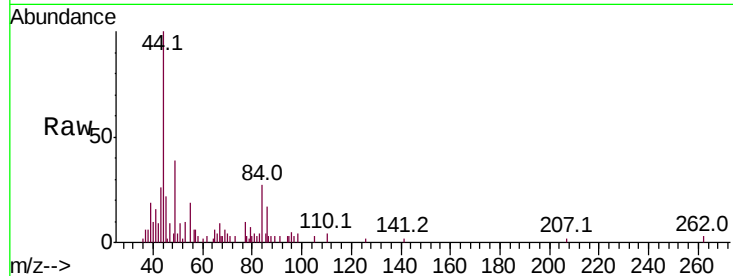


#20

Methvlene Chloride
 Concen: Below Cal
 RT: 2.19 min Scan# 158
 Delta R.T. -0.04 min
 Lab File: VF060611.D
 Acq: 6 Nov 2018 13:55

Instrument :
 MSVOA_F
 ClientSampleId :

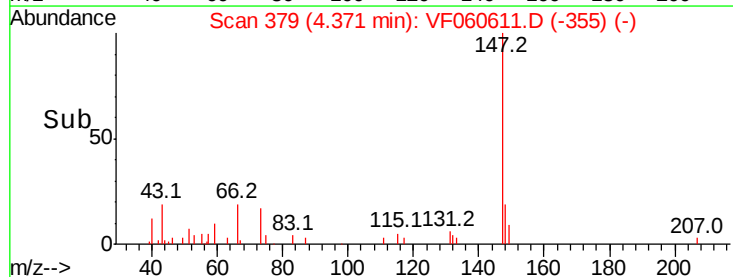
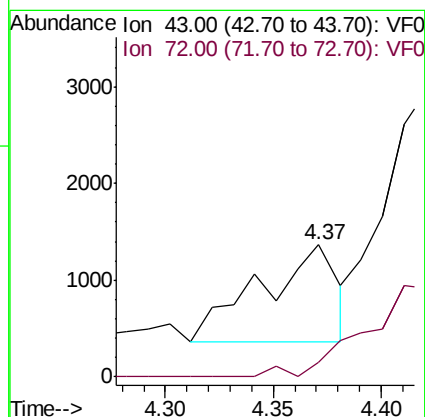
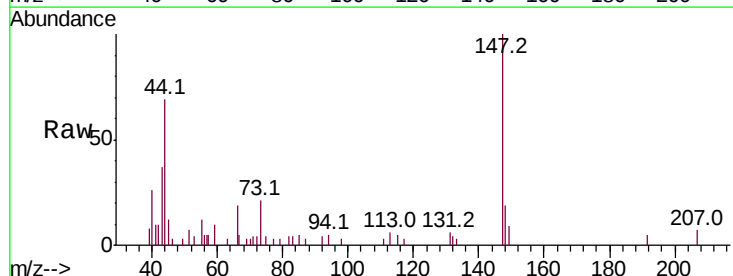
Tot Ion	84	Resp	3346
Ion Ratio	Lower	Upper	
84	100		
49	143.2	109.9	164.9
51	31.3	35.8	53.8#
86	61.2	48.3	72.5

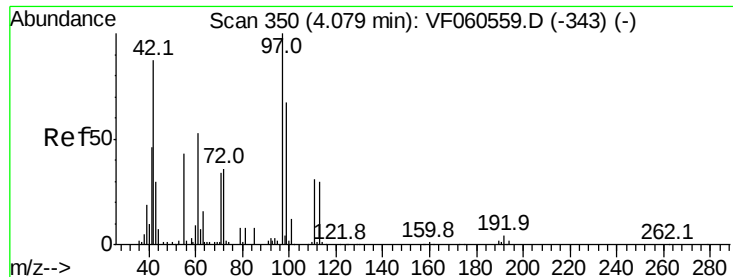


#25

2-Butanone
 Concen: Below Cal
 RT: 4.37 min Scan# 379
 Delta R.T. 0.04 min
 Lab File: VF060611.D
 Acq: 6 Nov 2018 13:55

Tgt Ion	43	Resp	2505
Ion Ratio	Lower	Upper	
43	100		
72	11.0	16.2	24.2#

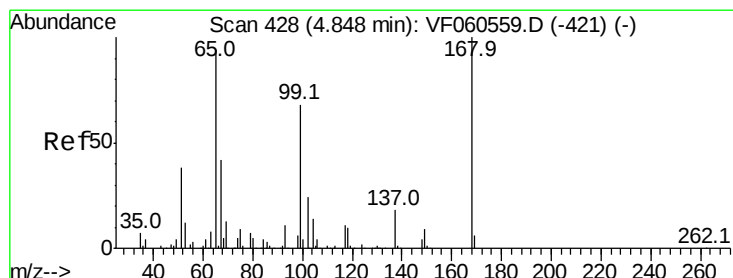
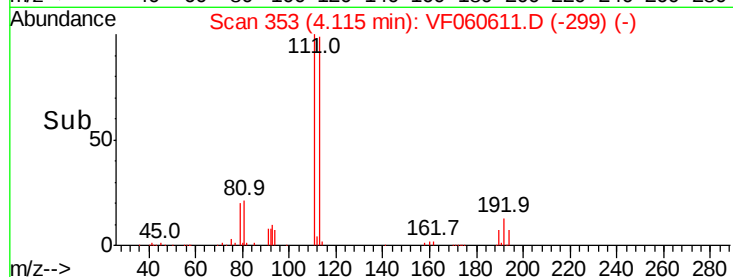
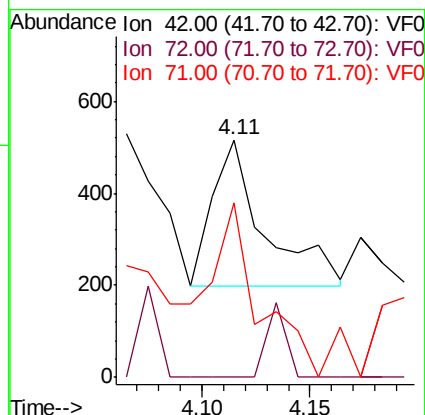
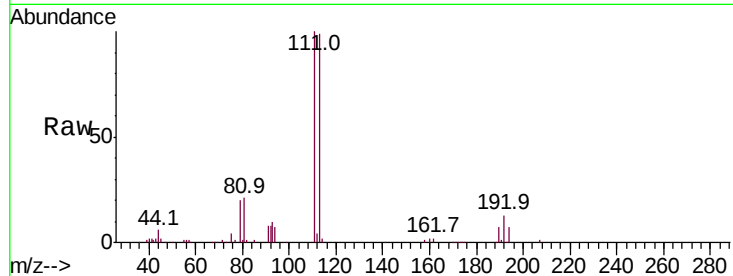




#29
Tetrahydrofuran
Concen: Below Cal
RT: 4.11 min Scan# 353
Delta R.T. 0.04 min
Lab File: VF060611.D
Acq: 6 Nov 2018 13:55

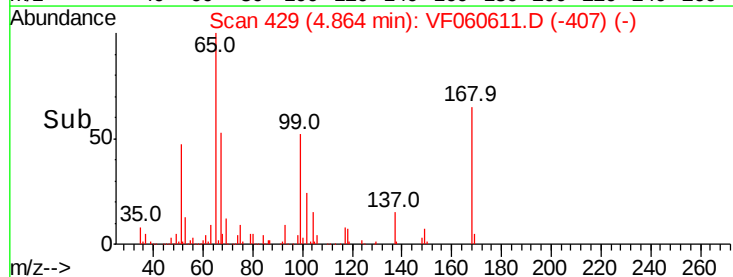
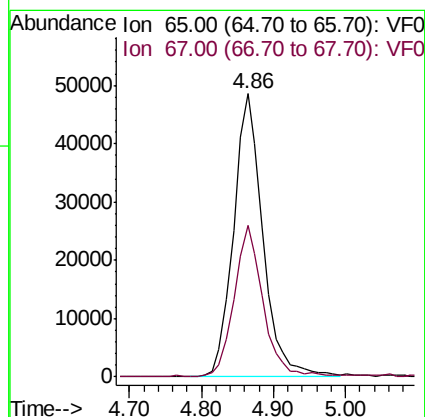
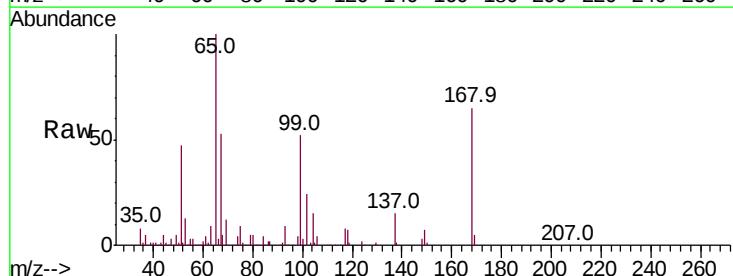
Instrument :
MSVOA_F
ClientSampleId :

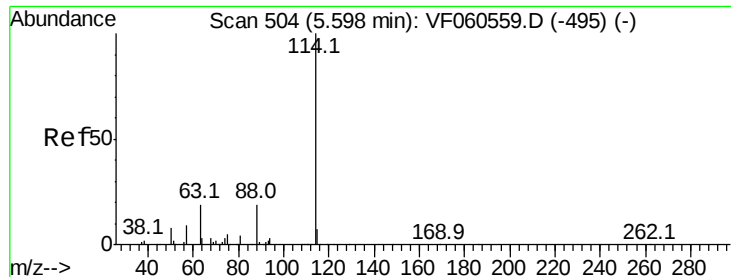
Tot Ion: 42 Resp: 534
Ion Ratio Lower Upper
42 100
72 0.0 31.4 47.0#
71 104.7 31.8 47.6#



#33
1,2-Dichloroethane-d4
Concen: 55.085 ug/l
RT: 4.86 min Scan# 429
Delta R.T. 0.02 min
Lab File: VF060611.D
Acq: 6 Nov 2018 13:55

Tgt Ion: 65 Resp: 137622
Ion Ratio Lower Upper
65 100
67 53.4 0.0 101.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.62 min Scan# 506

Delta R.T. 0.03 min

Lab File: VF060611.D

Acq: 6 Nov 2018 13:55

Instrument :

MSVOA_F

ClientSampleId :

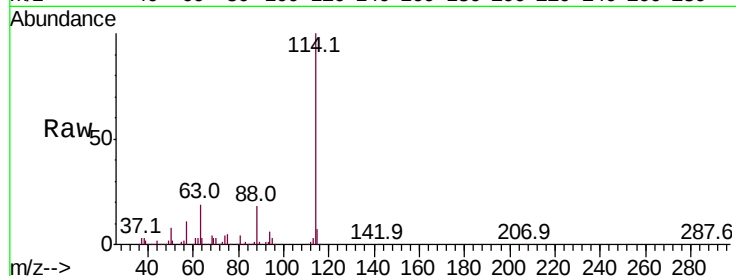
Tot Ion:114 Resp: 431263

Ion Ratio Lower Upper

114 100

63 19.1 0.0 39.0

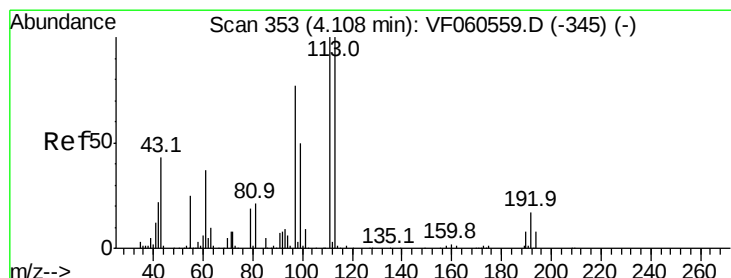
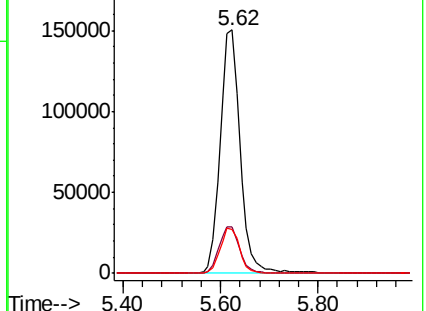
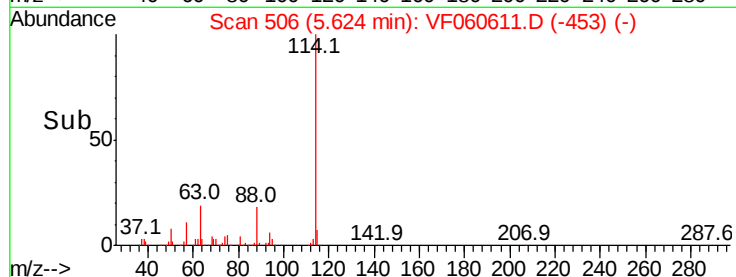
88 18.0 0.0 38.2



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



#35

Dibromofluoromethane

Concen: 54.119 ug/l

RT: 4.13 min Scan# 355

Delta R.T. 0.03 min

Lab File: VF060611.D

Acq: 6 Nov 2018 13:55

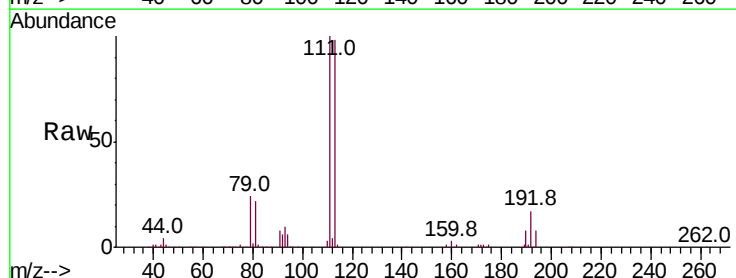
Tgt Ion:113 Resp: 180321

Ion Ratio Lower Upper

113 100

111 101.7 79.9 119.9

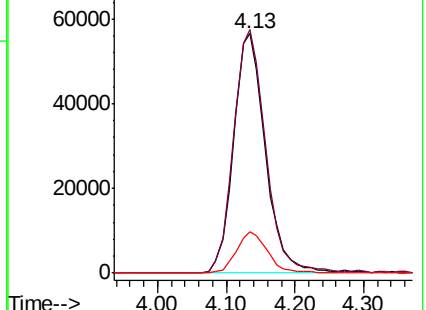
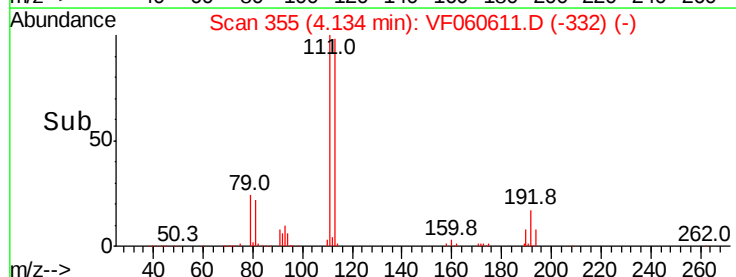
192 17.8 13.3 19.9

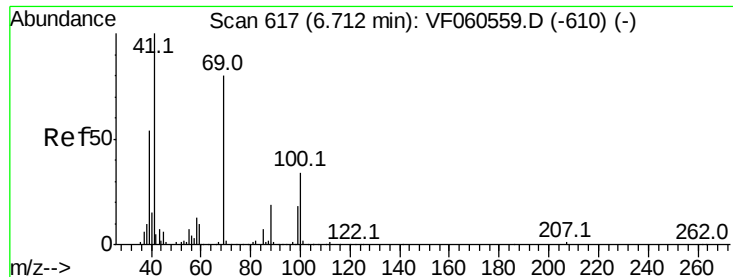


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

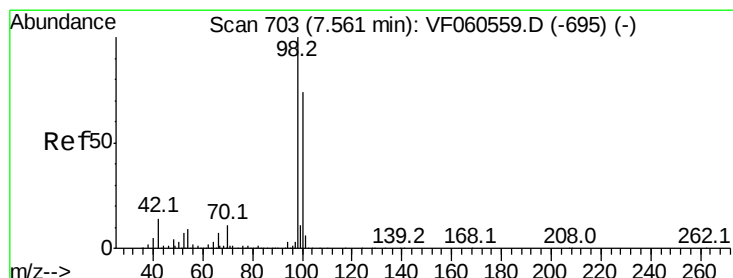
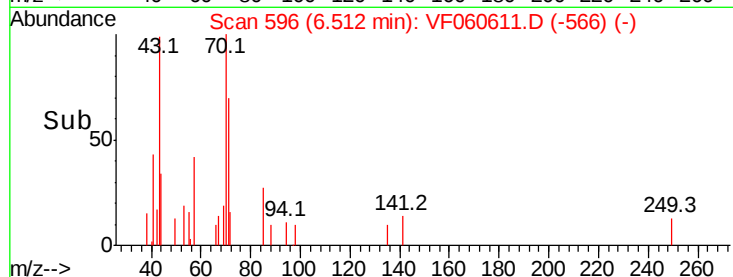
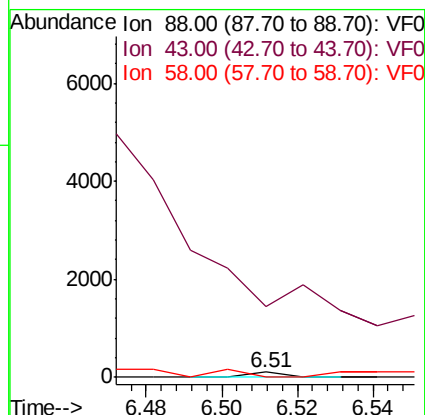
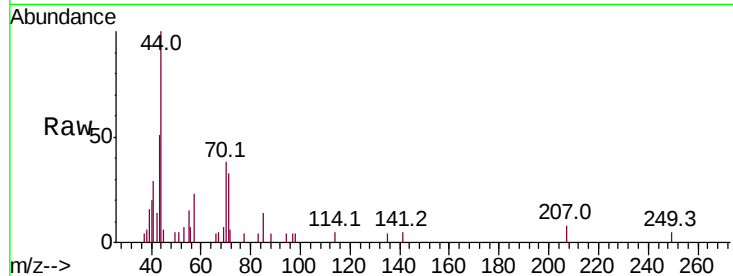




#49
1,4-Dioxane
Concen: 3.429 ug/l
RT: 6.51 min Scan# 596
Delta R.T. -0.20 min
Lab File: VF060611.D
Acq: 6 Nov 2018 13:55

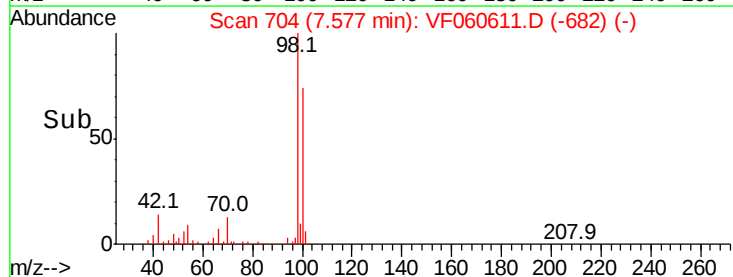
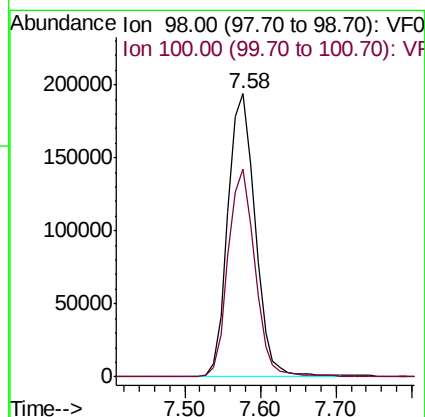
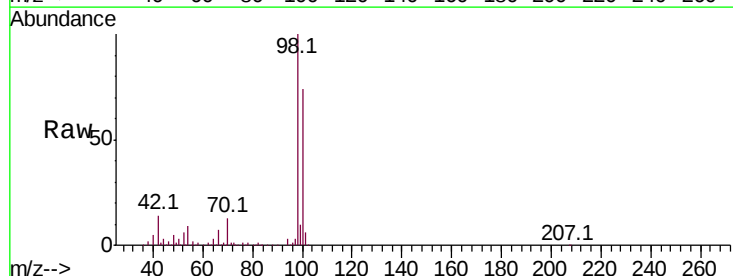
Instrument :
MSVOA_F
ClientSampleId :

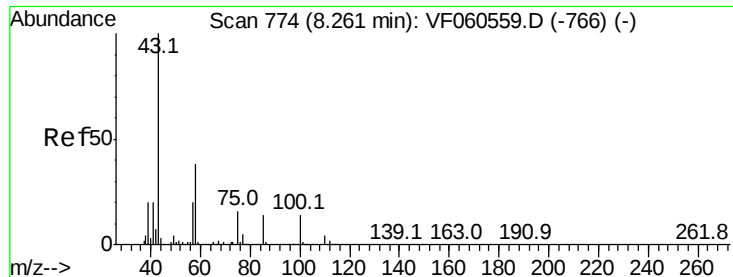
Tot Ion: 88 Resp: 65
Ion Ratio Lower Upper
88 100
43 1320.2 61.2 91.8#
58 0.0 56.9 85.3#



#50
Toluene-d8
Concen: 49.305 ug/l
RT: 7.58 min Scan# 704
Delta R.T. 0.02 min
Lab File: VF060611.D
Acq: 6 Nov 2018 13:55

Tgt Ion: 98 Resp: 486653
Ion Ratio Lower Upper
98 100
100 73.6 59.4 89.2





#51

4-Methyl-2-Pentanone

Concen: 3.101 ug/l

RT: 8.29 min Scan# 776

Delta R.T. 0.03 min

Lab File: VF060611.D

Acq: 6 Nov 2018 13:55

Instrument :

MSVOA_F

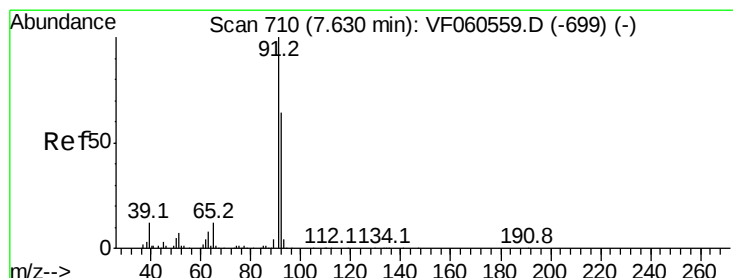
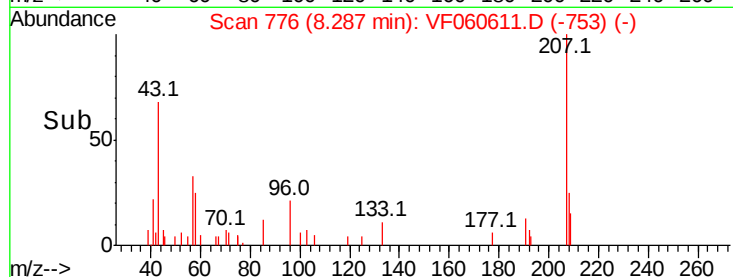
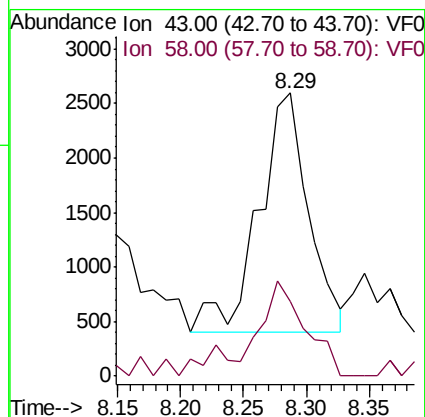
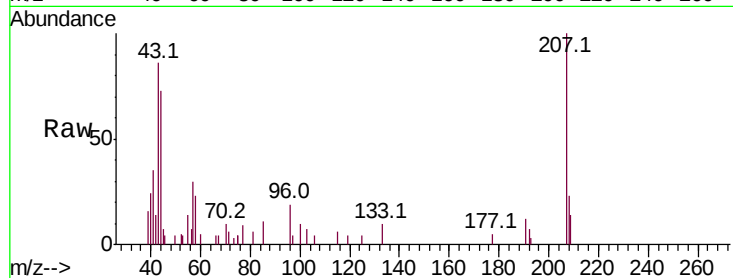
ClientSampled :

Tot Ion: 43 Resp: 6012

Ion Ratio Lower Upper

43 100

58 26.4 30.1 45.1#



#58

2-Chloroethyl Vinyl ether

Concen: Below Cal

RT: 7.67 min Scan# 713

Delta R.T. 0.04 min

Lab File: VF060611.D

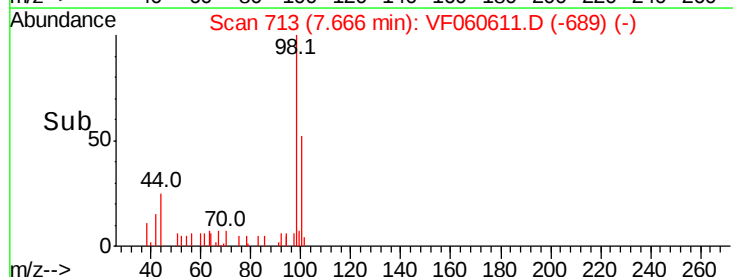
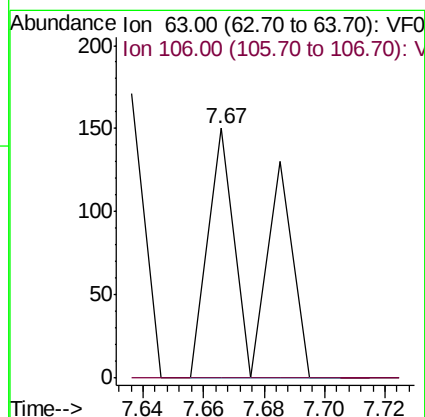
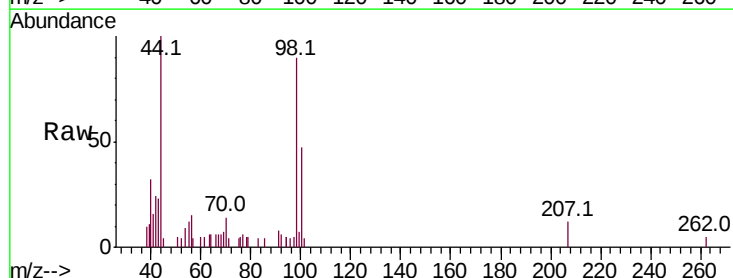
Acq: 6 Nov 2018 13:55

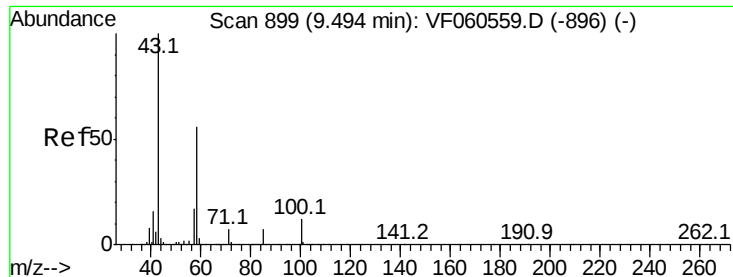
Tgt Ion: 63 Resp: 166

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0

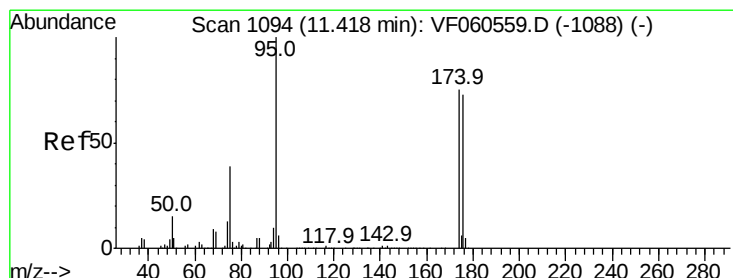
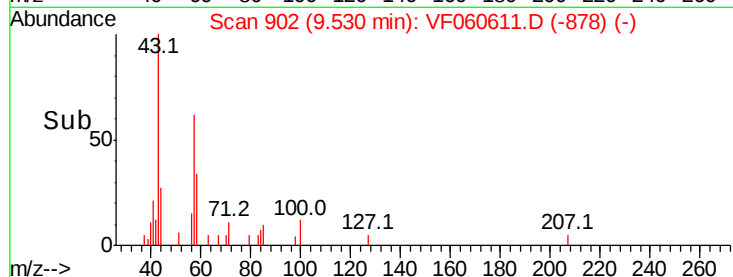
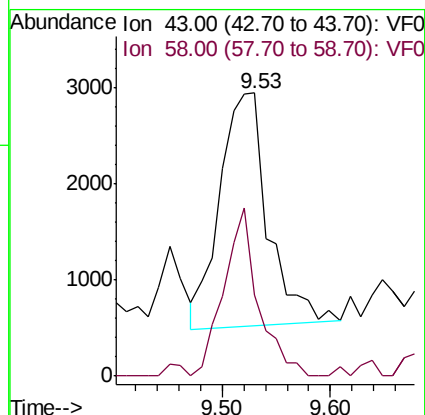
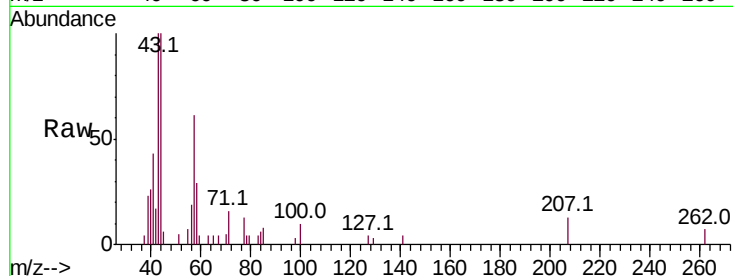




#59
2-Hexanone
Concen: Below Cal
RT: 9.53 min Scan# 902
Delta R.T. 0.04 min
Lab File: VF060611.D
Acq: 6 Nov 2018 13:55

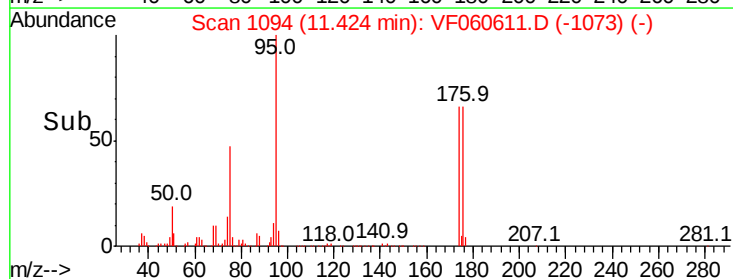
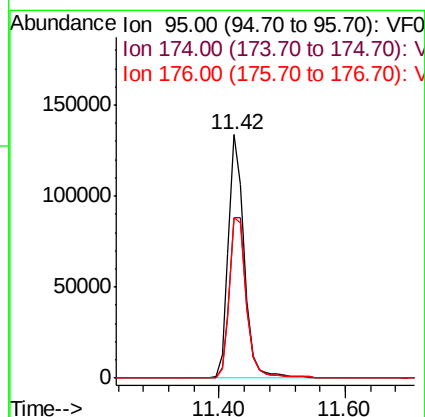
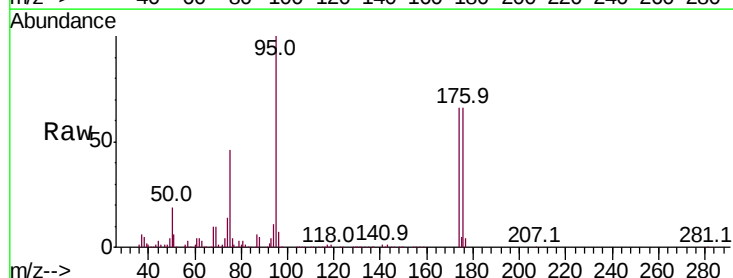
Instrument :
MSVOA_F
ClientSampleId :

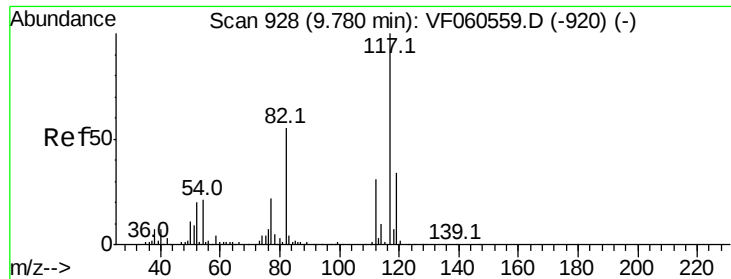
Tot Ion: 43 Resp: 7495
Ion Ratio Lower Upper
43 100
58 28.7 26.1 78.3



#62
4-Bromofluorobenzene
Concen: 54.326 ug/l
RT: 11.42 min Scan# 1094
Delta R.T. 0.01 min
Lab File: VF060611.D
Acq: 6 Nov 2018 13:55

Tgt Ion: 95 Resp: 234546
Ion Ratio Lower Upper
95 100
174 65.8 0.0 149.0
176 65.7 0.0 145.6

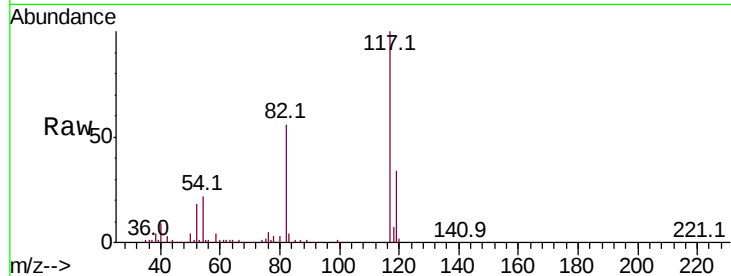




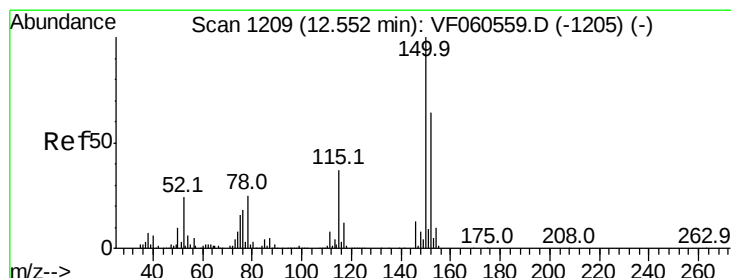
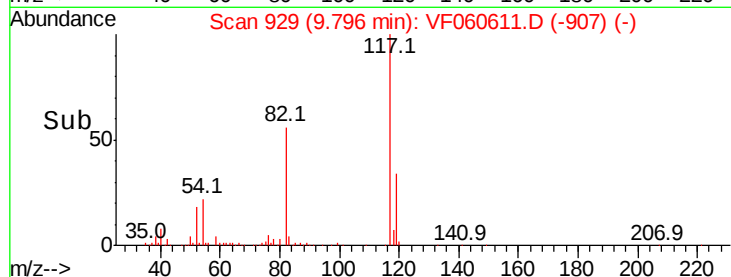
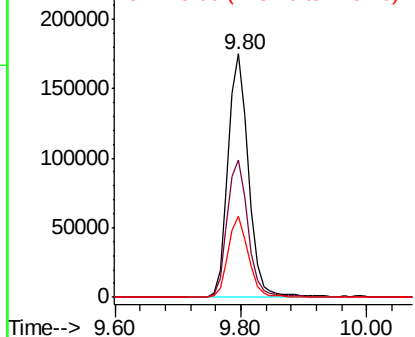
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.80 min Scan# 929
Delta R.T. 0.02 min
Lab File: VF060611.D
Acq: 6 Nov 2018 13:55

Instrument :
MSVOA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
117	100		
82	56.5	43.9	65.9
119	33.5	27.4	41.0

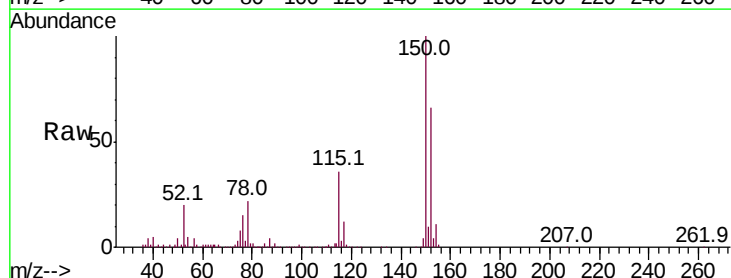


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

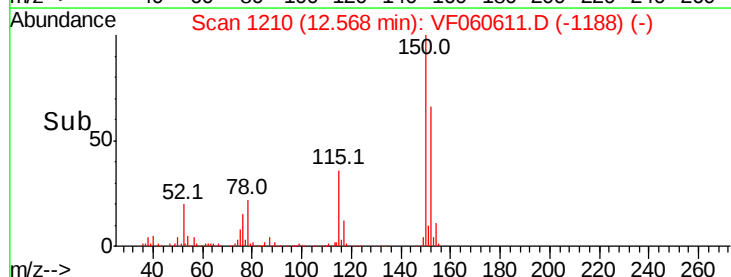
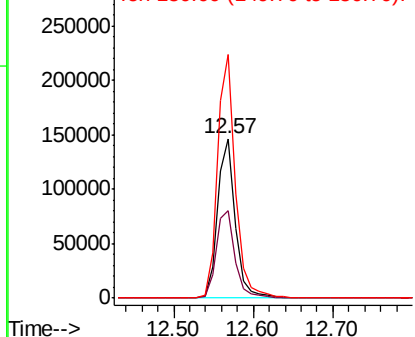


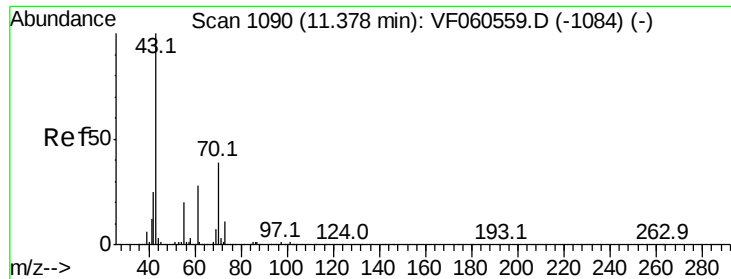
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.57 min Scan# 1210
Delta R.T. 0.02 min
Lab File: VF060611.D
Acq: 6 Nov 2018 13:55

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.9	29.6	88.8
150	152.4	0.0	315.6



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





#74
 N-amvl acetate
 Concen: Below Cal
 RT: 11.38 min Scan# 1090
 Delta R.T. 0.01 min
 Lab File: VF060611.D
 Acq: 6 Nov 2018 13:55

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion: 43 Resp: 3696
 Ion Ratio Lower Upper
 43 100
 70 23.1 30.9 46.3#
 55 30.4 16.6 24.8#
 61 20.8 22.0 33.0#

