

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF110918\
 Data File : VF060687.D
 Acq On : 9 Nov 2018 22:28
 Operator : VA/AP
 Sample : J5887-03
 Misc : 5.01g/5mL/MSVOA-F/SOIL
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 W-1-S

Quant Time: Nov 12 04:15:41 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	234419	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.60	114	408916	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.79	117	377376	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	209289	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.85	65	150896	63.71	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	127.42%	
35) Dibromofluoromethane	4.12	113	179604	56.85	ug/l	0.02
Spiked Amount				50.000		
			Recovery	=	113.70%	
50) Toluene-d8	7.57	98	456223	48.75	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	97.50%	
62) 4-Bromofluorobenzene	11.42	95	227542	55.58	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	111.16%	

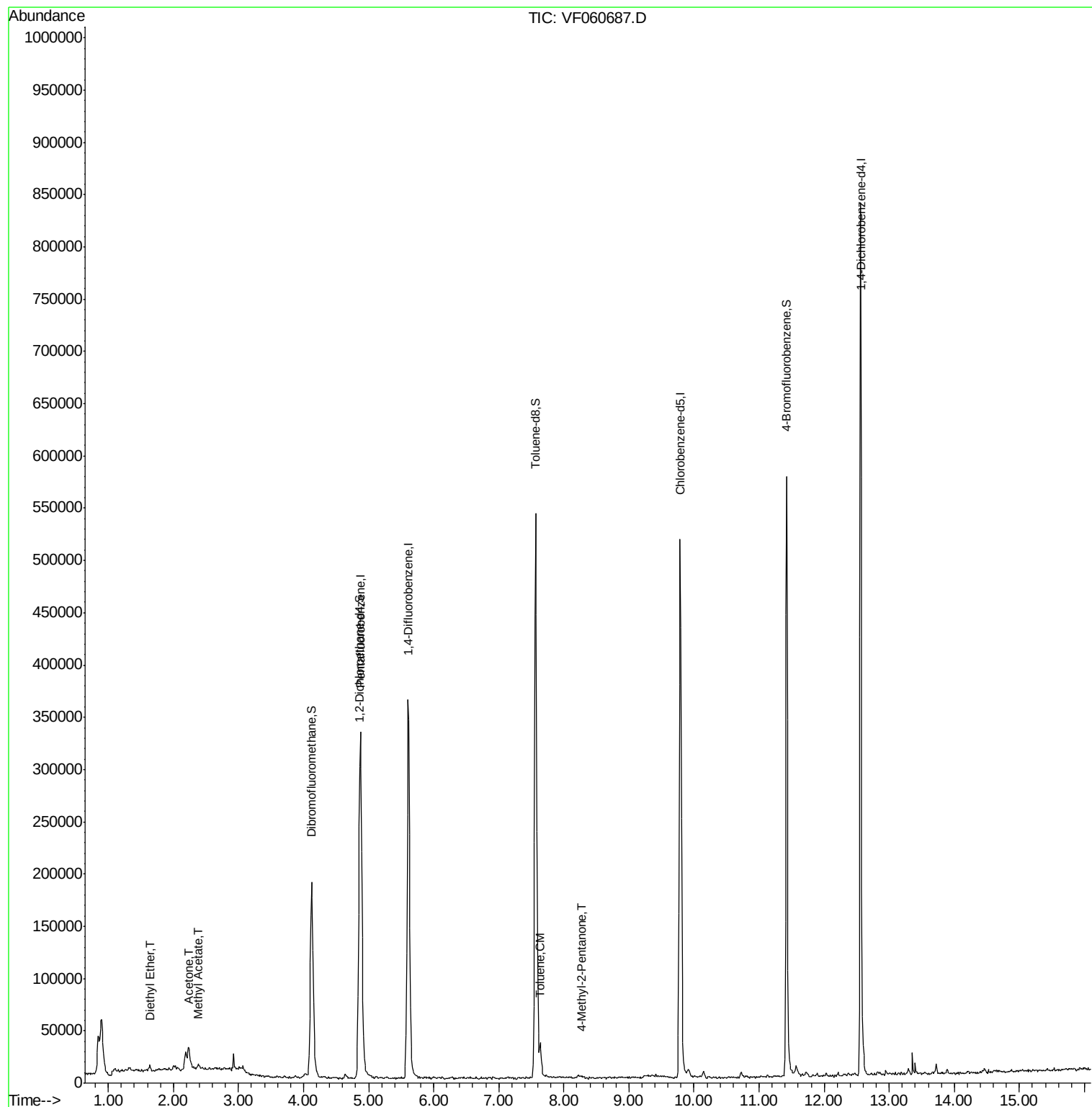
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.97	85	528	Below Cal	#	41
6) Chloroethane	1.39	64	89	Below Cal	#	1
8) Diethyl Ether	1.64	74	1346	2.052	ug/l	90
11) Tert butyl alcohol	2.57	59	823	Below Cal	#	1
13) Acrolein	2.01	56	237	Below Cal	#	1
16) Acetone	2.25	43	14164	25.378	ug/l	97
18) Methyl Acetate	2.38	43	1320	1.987	ug/l	98
20) Methylene Chloride	2.19	84	7393	Below Cal		93
25) 2-Butanone	4.36	43	897	Below Cal	#	89
29) Tetrahydrofuran	4.09	42	895	Below Cal	#	74
51) 4-Methyl-2-Pentanone	8.28	43	2542	1.383	ug/l #	37
52) Toluene	7.64	92	15015	2.109	ug/l	97
58) 2-Chloroethyl Vinyl ether	7.64	63	2098	Below Cal		100
59) 2-Hexanone	9.51	43	3545	Below Cal		70
74) N-amyl acetate	11.38	43	583	Below Cal	#	38
89) n-Butylbenzene	12.85	91	964	Below Cal		71

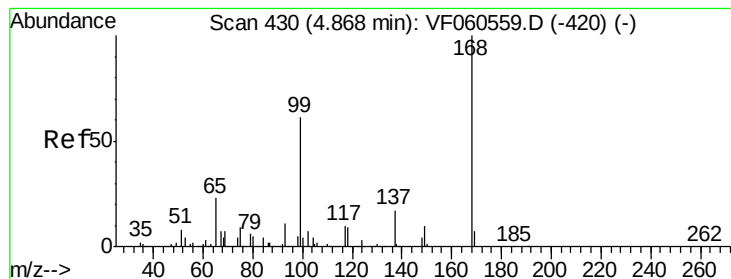
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. 0.02 min

Lab File: VF060687.D

Acq: 9 Nov 2018 22:28

Instrument :

MSVOA_F

ClientSampleId :

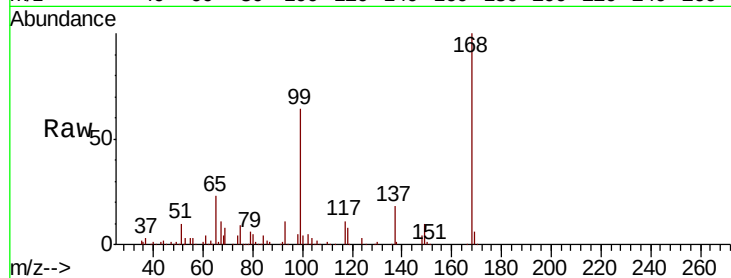
W-1-S

Tgt Ion:168 Resp: 234419

Ion Ratio Lower Upper

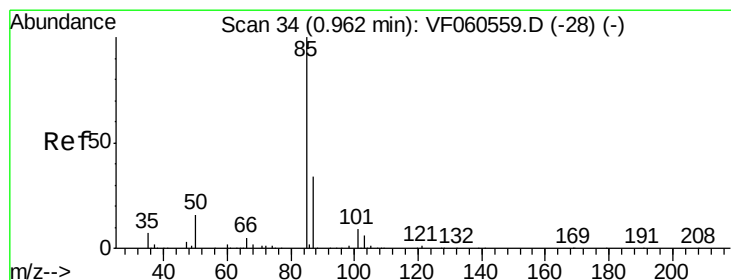
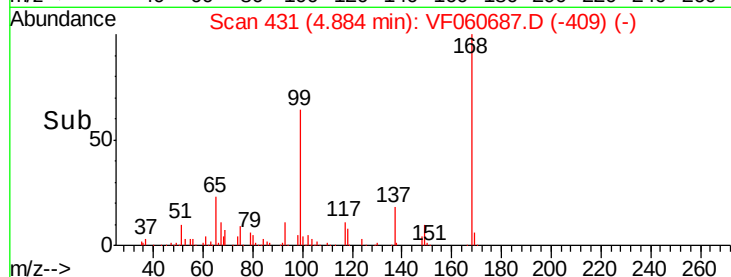
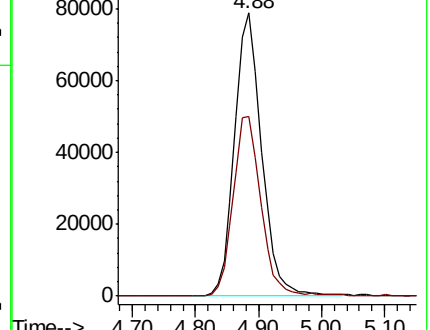
168 100

99 63.6 48.6 72.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.97 min Scan# 34

Delta R.T. 0.01 min

Lab File: VF060687.D

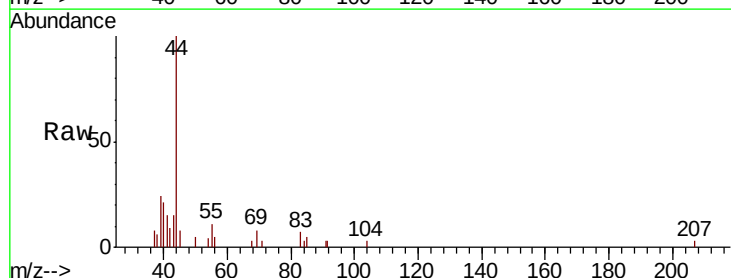
Acq: 9 Nov 2018 22:28

Tgt Ion: 85 Resp: 528

Ion Ratio Lower Upper

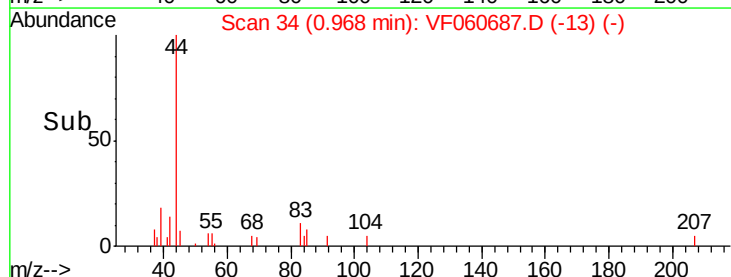
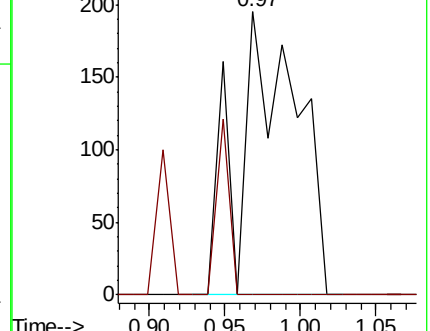
85 100

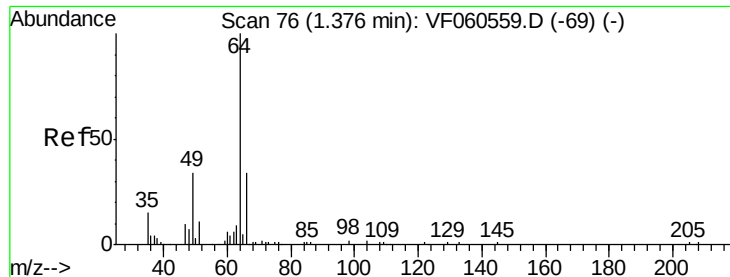
87 0.0 16.9 50.7#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#6

Chloroethane

Concen: Below Cal

RT: 1.39 min Scan# 77

Delta R.T. 0.02 min

Lab File: VF060687.D

Acq: 9 Nov 2018 22:28

Instrument :

MSVOA_F

ClientSampleId :

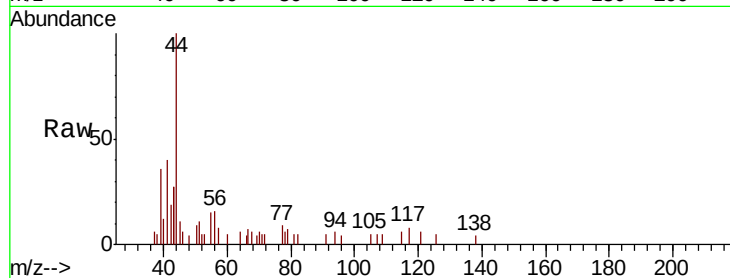
W-1-S

Tgt Ion: 64 Resp: 89

Ion Ratio Lower Upper

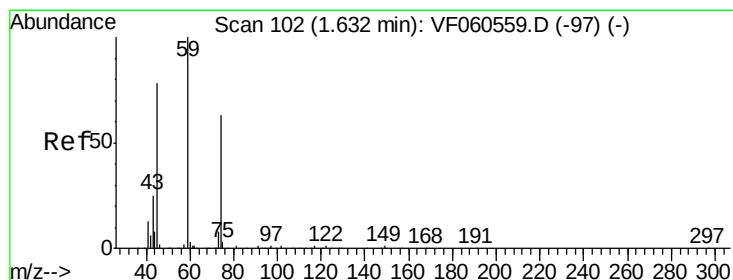
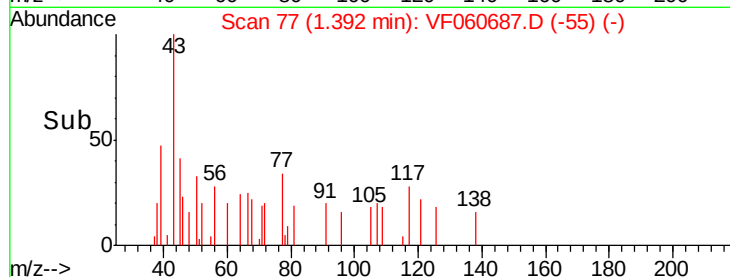
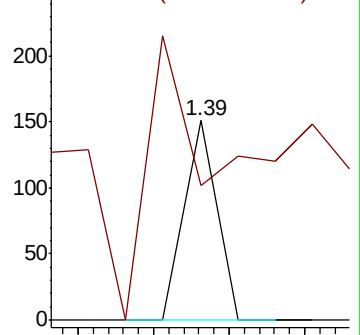
64 100

66 172.2 27.8 41.8#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0



#8

Diethyl Ether

Concen: 2.052 ug/l

RT: 1.64 min Scan# 102

Delta R.T. 0.01 min

Lab File: VF060687.D

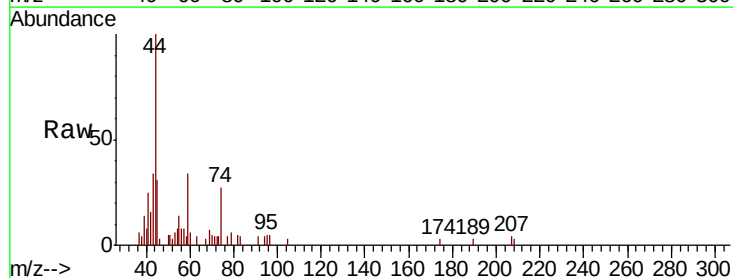
Acq: 9 Nov 2018 22:28

Tgt Ion: 74 Resp: 1346

Ion Ratio Lower Upper

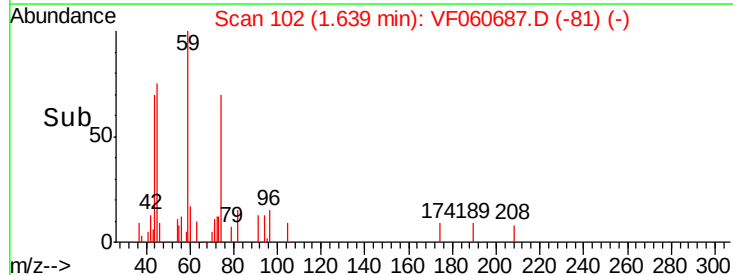
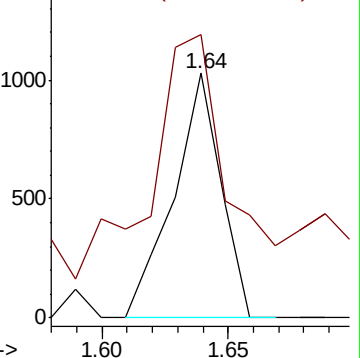
74 100

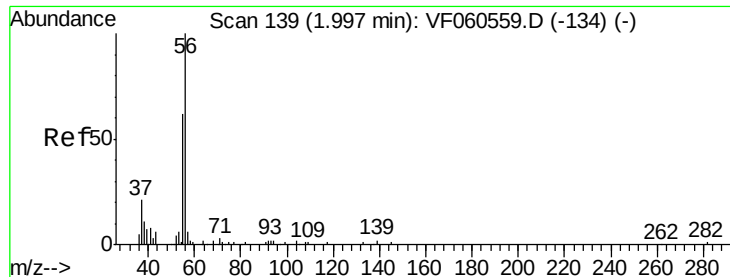
45 115.6 63.8 191.5



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#13

Acrolein

Concen: Below Cal

RT: 2.01 min Scan# 140

Delta R.T. 0.02 min

Lab File: VF060687.D

Acq: 9 Nov 2018 22:28

Instrument :

MSVOA_F

ClientSampled :

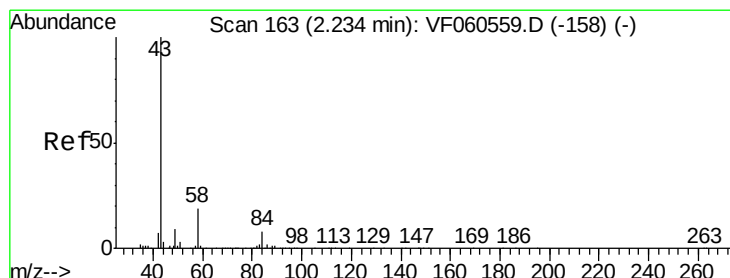
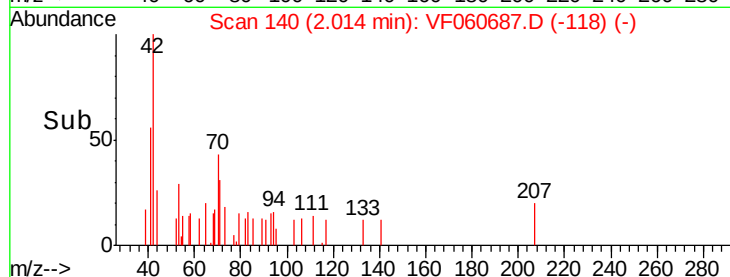
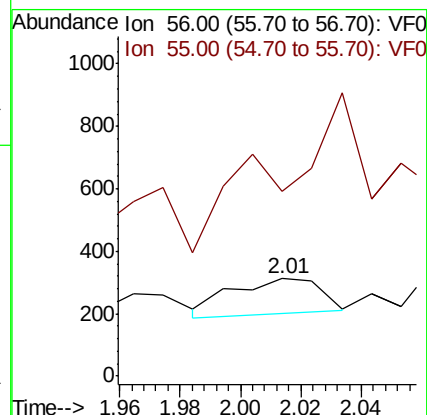
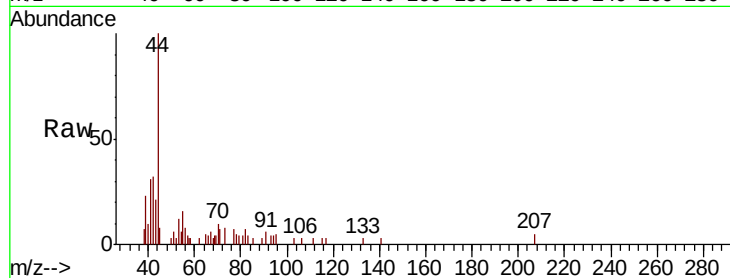
W-1-S

Tgt Ion: 56 Resp: 237

Ion Ratio Lower Upper

56 100

55 189.7 61.8 92.6#



#16

Acetone

Concen: 25.378 ug/l

RT: 2.25 min Scan# 164

Delta R.T. 0.02 min

Lab File: VF060687.D

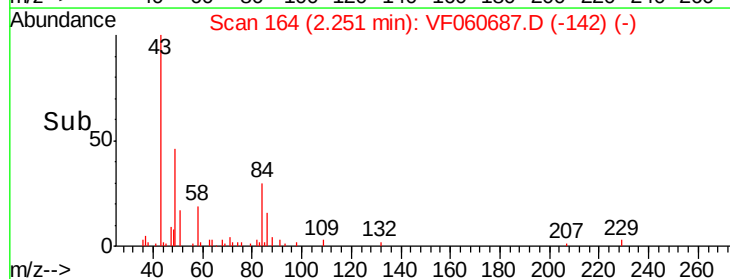
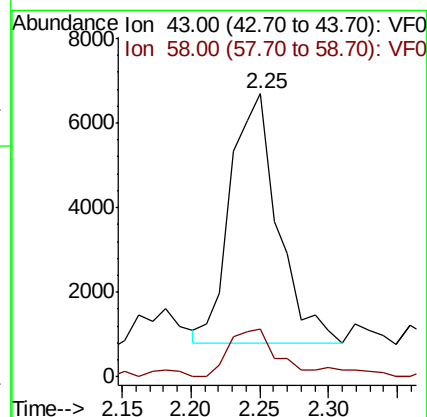
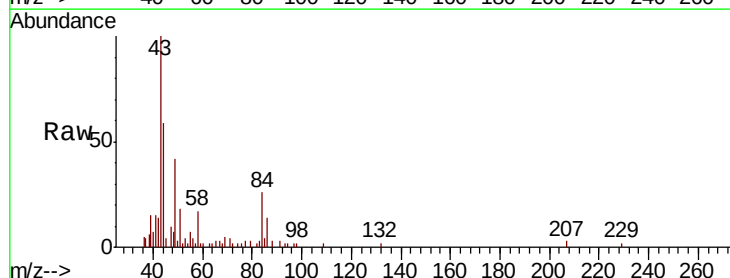
Acq: 9 Nov 2018 22:28

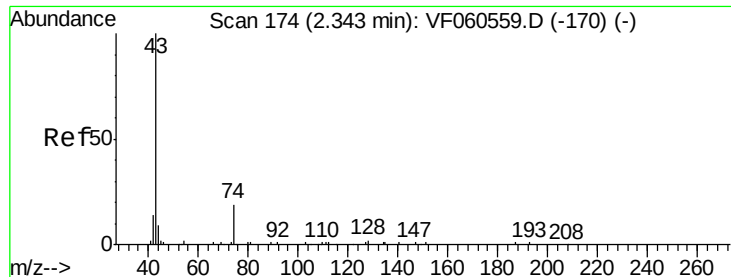
Tgt Ion: 43 Resp: 14164

Ion Ratio Lower Upper

43 100

58 17.0 14.6 22.0

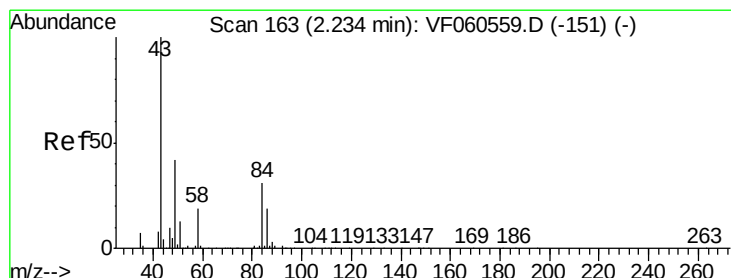
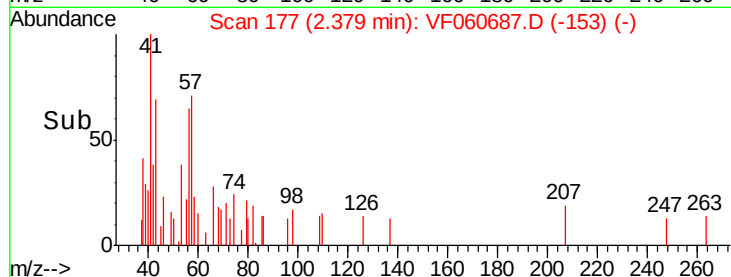
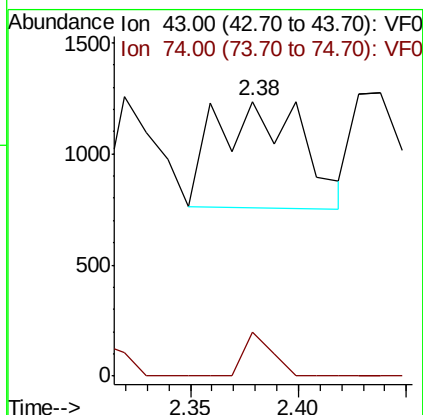
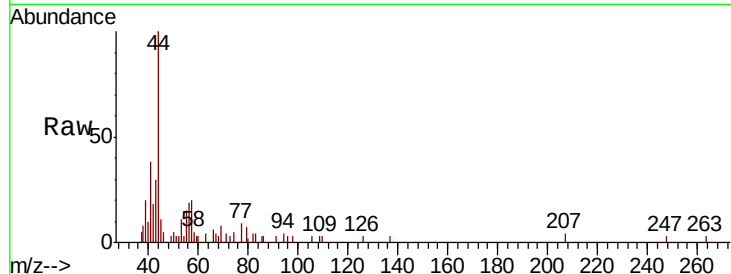




#18
Methyl Acetate
Concen: 1.987 ug/l
RT: 2.38 min Scan# 177
Delta R.T. 0.04 min
Lab File: VF060687.D
Acq: 9 Nov 2018 22:28

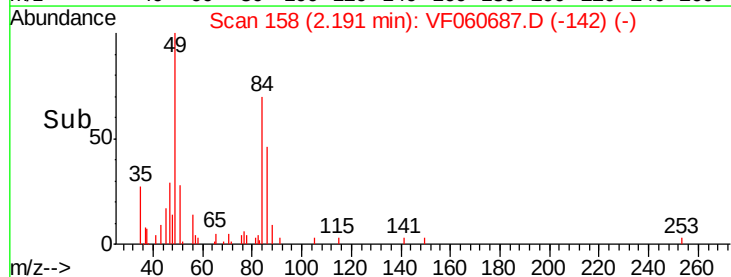
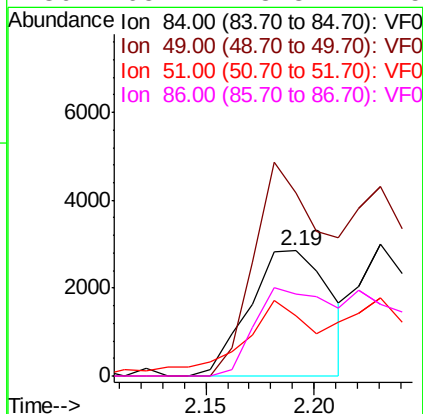
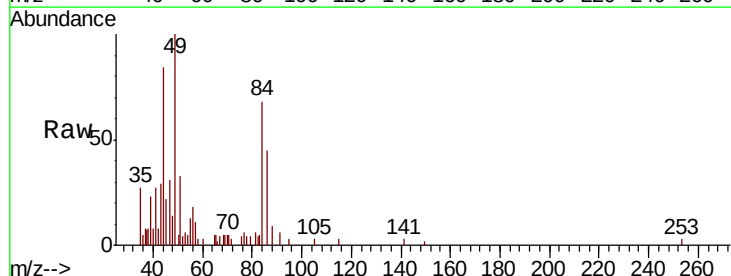
Instrument :
MSVOA_F
ClientSampled :
W-1-S

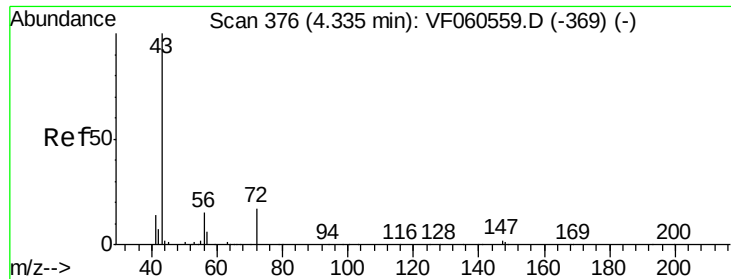
Tgt Ion: 43 Resp: 1320
Ion Ratio Lower Upper
43 100
74 16.1 12.1 18.1



#20
Methylene Chloride
Concen: Below Cal
RT: 2.19 min Scan# 158
Delta R.T. -0.04 min
Lab File: VF060687.D
Acq: 9 Nov 2018 22:28

Tgt Ion: 84 Resp: 7393
Ion Ratio Lower Upper
84 100
49 146.5 109.9 164.9
51 48.0 35.8 53.8
86 65.2 48.3 72.5





#25

2-Butanone

Concen: Below Cal

RT: 4.36 min Scan# 378

Delta R.T. 0.03 min

Lab File: VF060687.D

Acq: 9 Nov 2018 22:28

Instrument :

MSVOA_F

ClientSampleId :

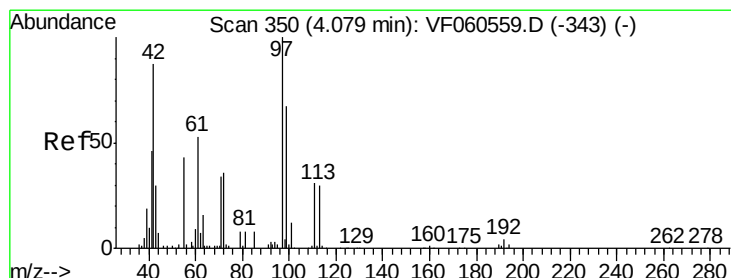
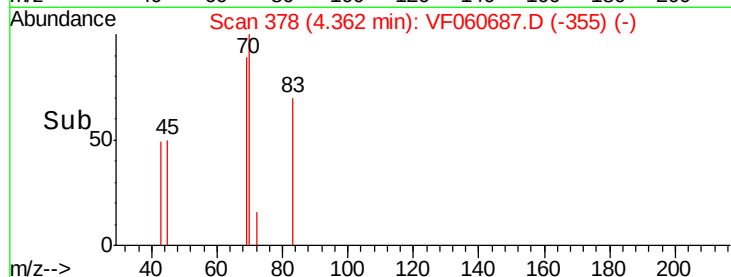
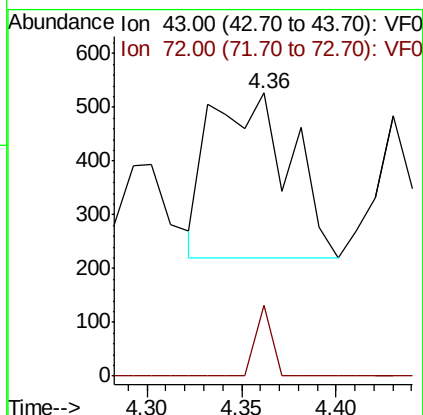
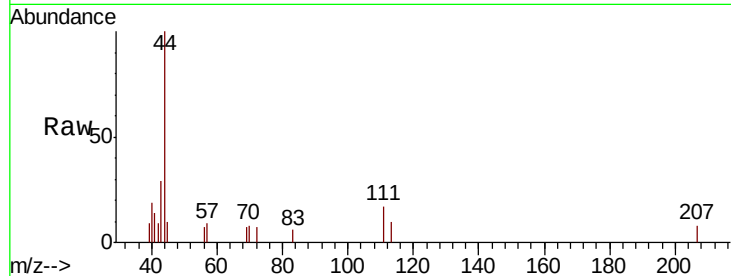
W-1-S

Tgt Ion: 43 Resp: 897

Ion Ratio Lower Upper

43 100

72 25.0 16.2 24.2#



#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.09 min Scan# 350

Delta R.T. 0.01 min

Lab File: VF060687.D

Acq: 9 Nov 2018 22:28

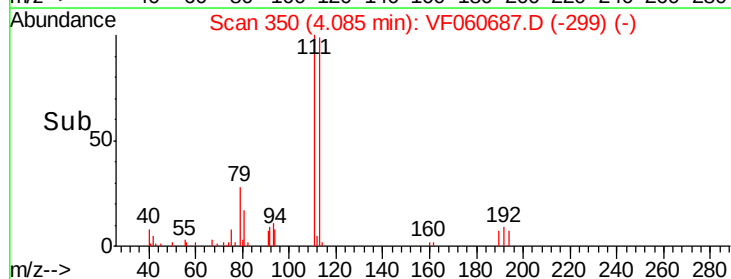
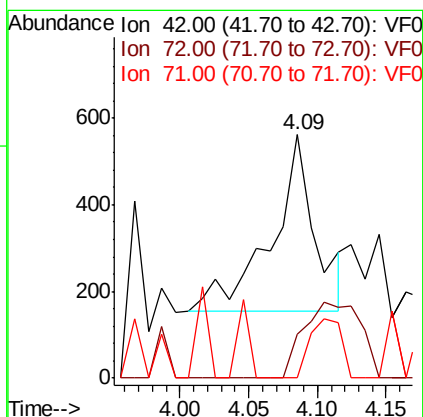
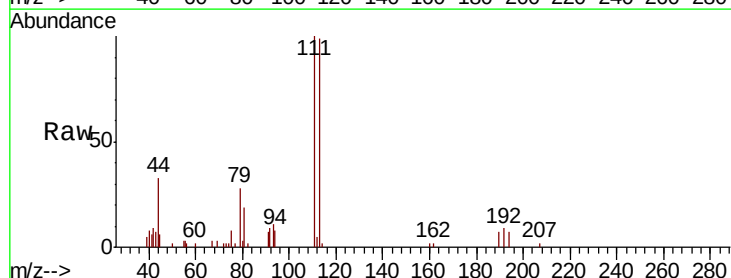
Tgt Ion: 42 Resp: 895

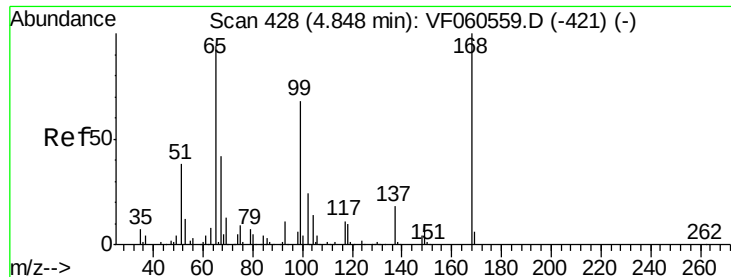
Ion Ratio Lower Upper

42 100

72 55.6 31.4 47.0#

71 24.5 31.8 47.6#





#33

1,2-Dichloroethane-d4

Concen: 63.710 ug/l

RT: 4.85 min Scan# 428

Delta R.T. 0.01 min

Lab File: VF060687.D

Acq: 9 Nov 2018 22:28

Instrument :

MSVOA_F

ClientSampled :

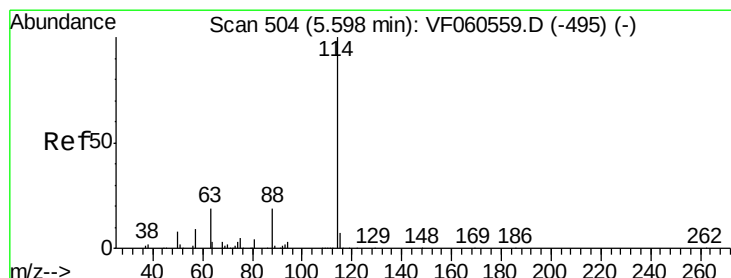
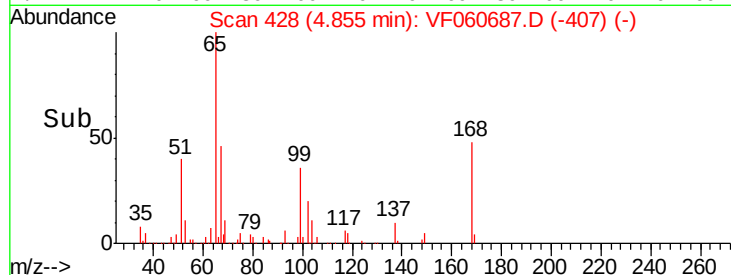
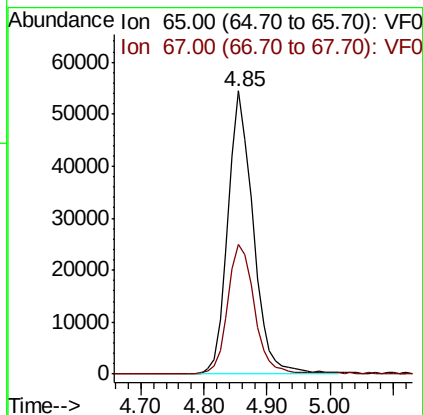
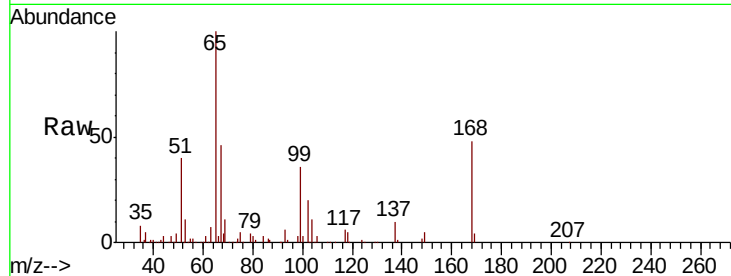
W-1-S

Tgt Ion: 65 Resp: 150896

Ion Ratio Lower Upper

65 100

67 45.9 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. 0.01 min

Lab File: VF060687.D

Acq: 9 Nov 2018 22:28

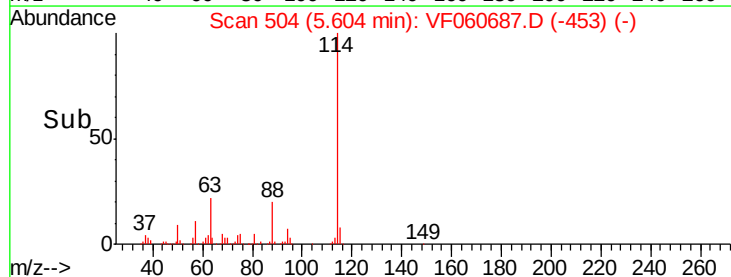
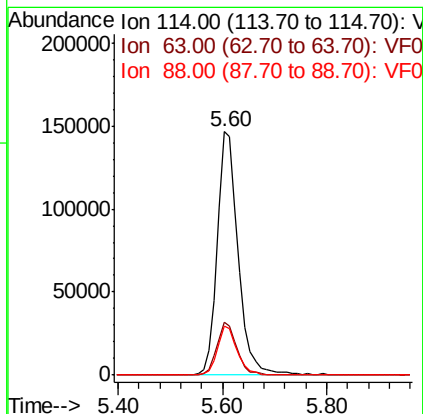
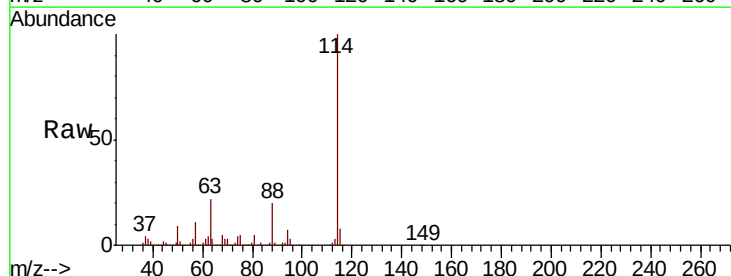
Tgt Ion: 114 Resp: 408916

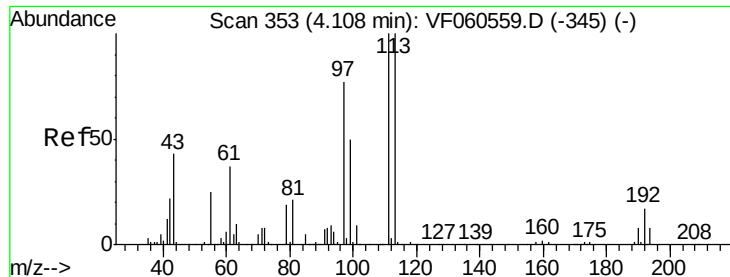
Ion Ratio Lower Upper

114 100

63 21.7 0.0 39.0

88 20.2 0.0 38.2





#35

Dibromofluoromethane

Concen: 56.850 ug/l

RT: 4.12 min Scan# 354

Delta R.T. 0.02 min

Lab File: VF060687.D

Acq: 9 Nov 2018 22:28

Instrument :

MSVOA_F

ClientSampleId :

W-1-S

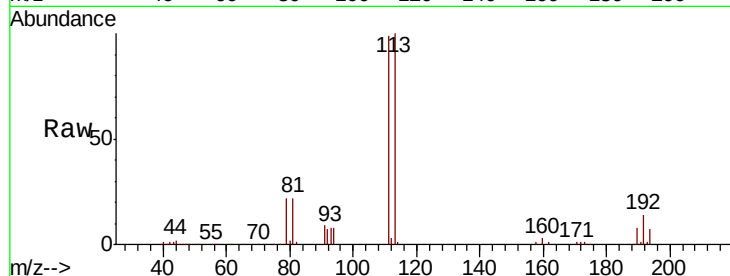
Tgt Ion:113 Resp: 179604

Ion Ratio Lower Upper

113 100

111 99.3 79.9 119.9

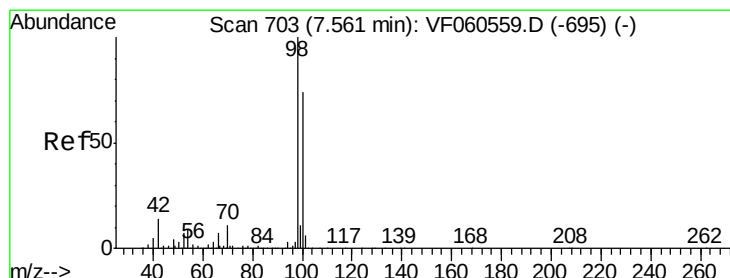
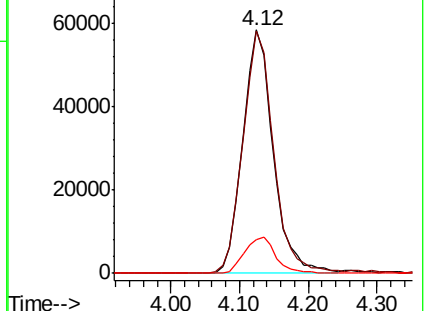
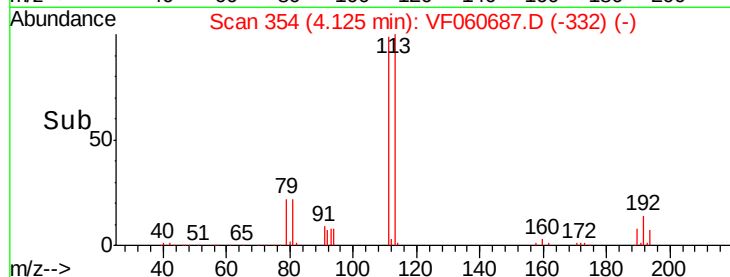
192 13.9 13.3 19.9



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



#50

Toluene-d8

Concen: 48.748 ug/l

RT: 7.57 min Scan# 703

Delta R.T. 0.01 min

Lab File: VF060687.D

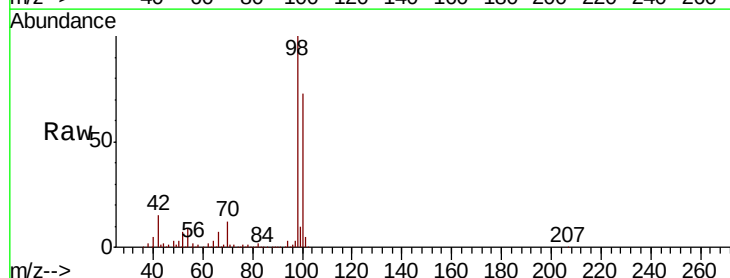
Acq: 9 Nov 2018 22:28

Tgt Ion: 98 Resp: 456223

Ion Ratio Lower Upper

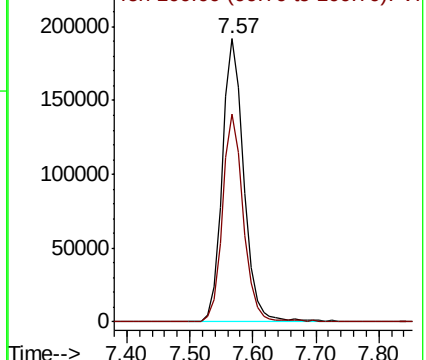
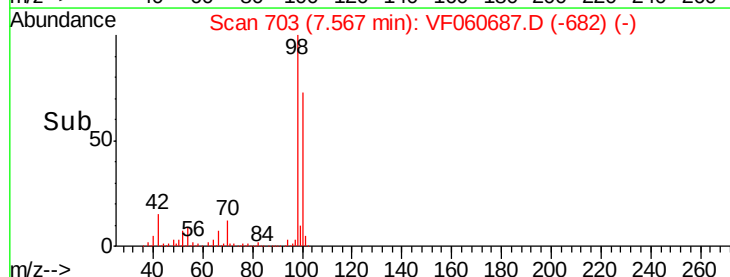
98 100

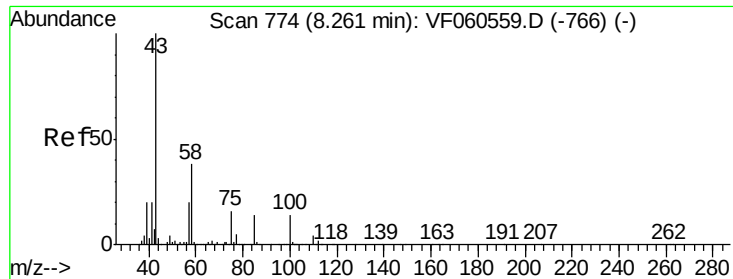
100 73.2 59.4 89.2



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF





#51

4-Methyl-2-Pentanone

Concen: 1.383 ug/l

RT: 8.28 min Scan# 775

Delta R.T. 0.02 min

Lab File: VF060687.D

Acq: 9 Nov 2018 22:28

Instrument :

MSVOA_F

ClientSampleId :

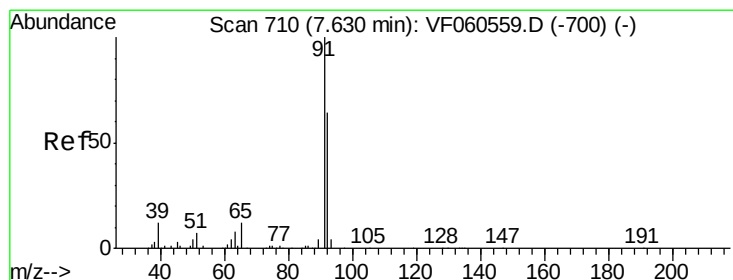
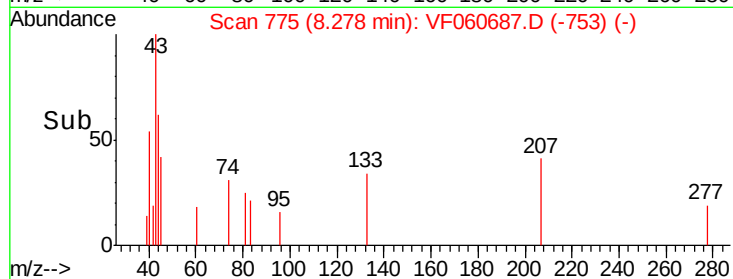
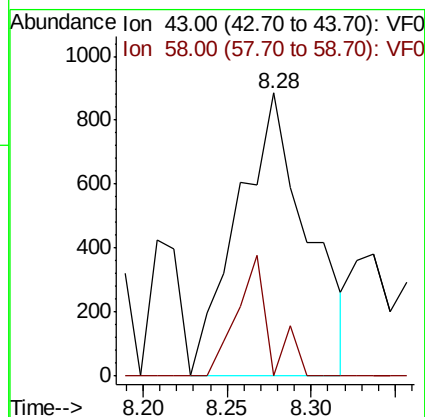
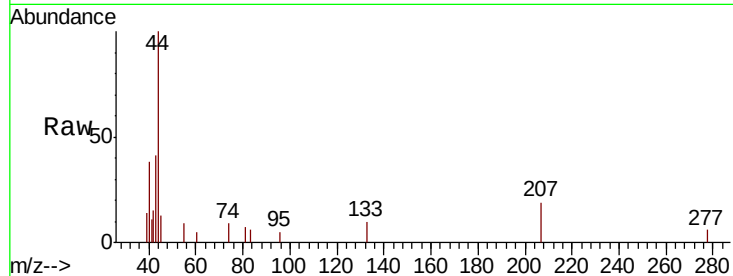
W-1-S

Tgt Ion: 43 Resp: 2542

Ion Ratio Lower Upper

43 100

58 0.0 30.1 45.1#



#52

Toluene

Concen: 2.109 ug/l

RT: 7.64 min Scan# 710

Delta R.T. 0.01 min

Lab File: VF060687.D

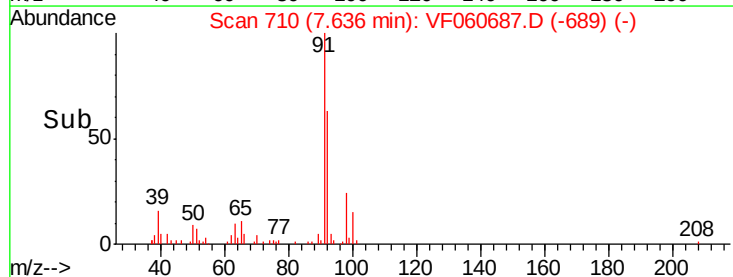
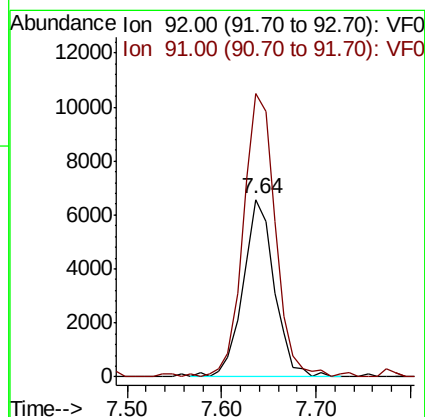
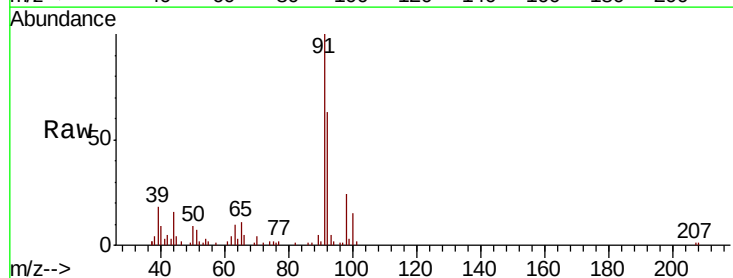
Acq: 9 Nov 2018 22:28

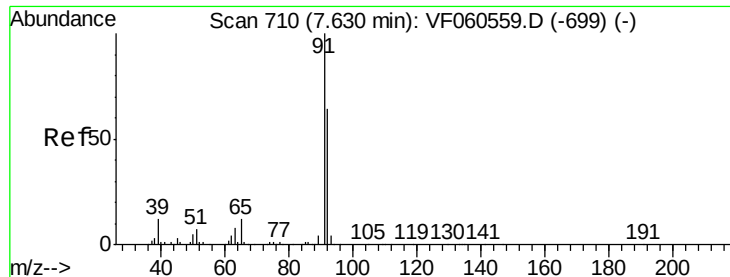
Tgt Ion: 92 Resp: 15015

Ion Ratio Lower Upper

92 100

91 159.3 124.5 186.7





#58

2-Chloroethyl Vinyl ether

Concen: Below Cal

RT: 7.64 min Scan# 710

Delta R.T. 0.01 min

Lab File: VF060687.D

Acq: 9 Nov 2018 22:28

Instrument :

MSVOA_F

ClientSampleId :

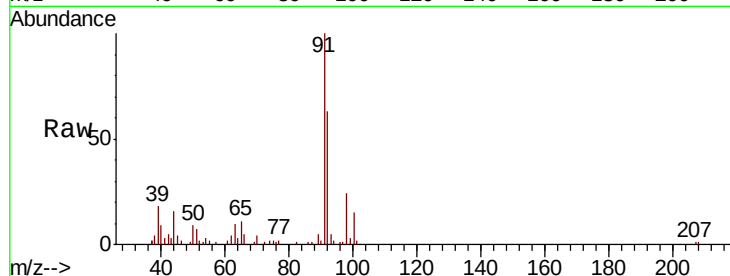
W-1-S

Tgt Ion: 63 Resp: 2098

Ion Ratio Lower Upper

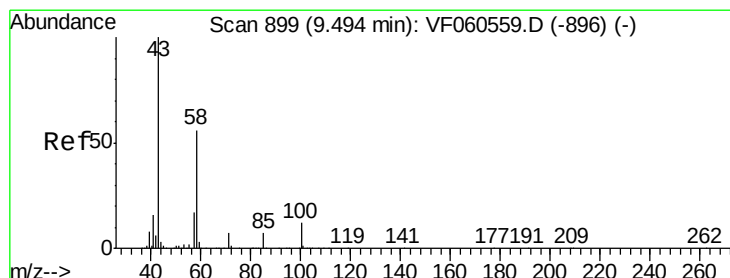
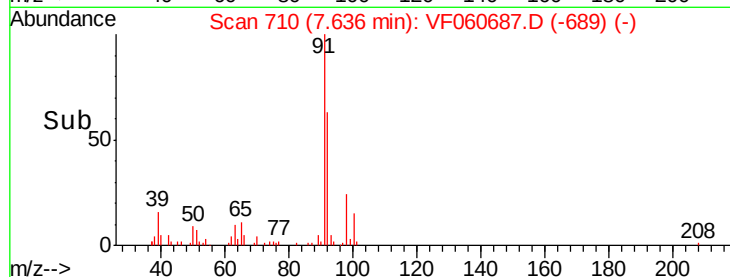
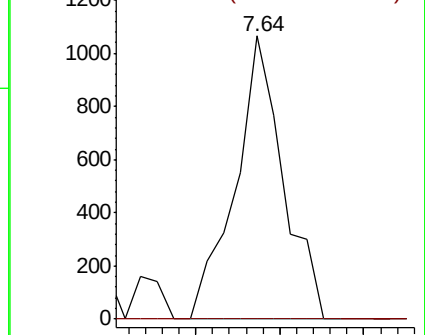
63 100

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. 0.02 min

Lab File: VF060687.D

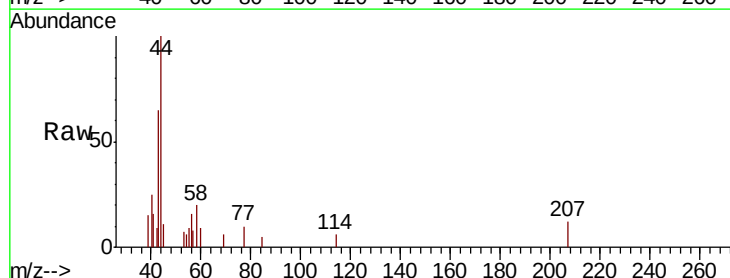
Acq: 9 Nov 2018 22:28

Tgt Ion: 43 Resp: 3545

Ion Ratio Lower Upper

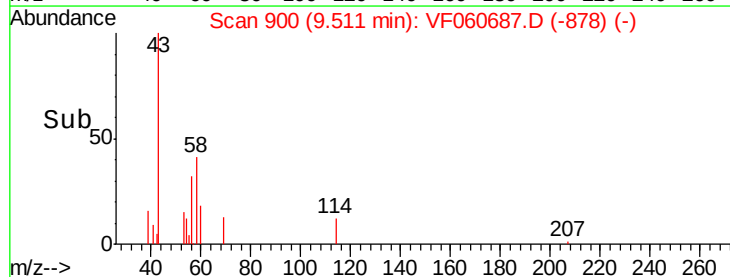
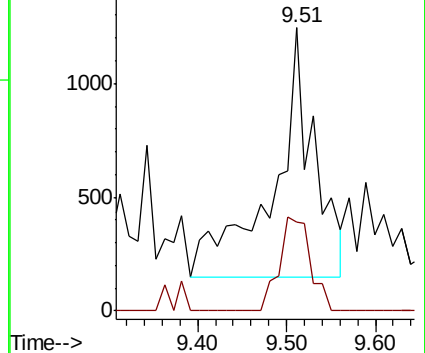
43 100

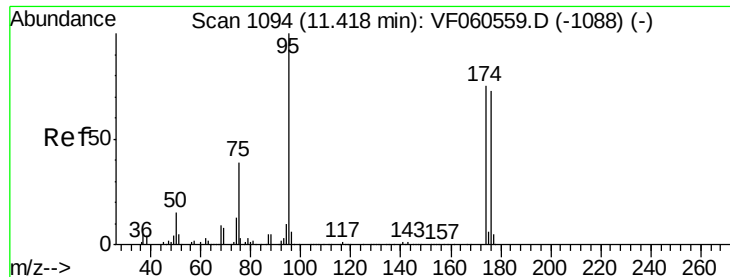
58 31.2 26.1 78.3



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 55.584 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.01 min

Lab File: VF060687.D

Acq: 9 Nov 2018 22:28

Instrument :

MSVOA_F

ClientSampleId :

W-1-S

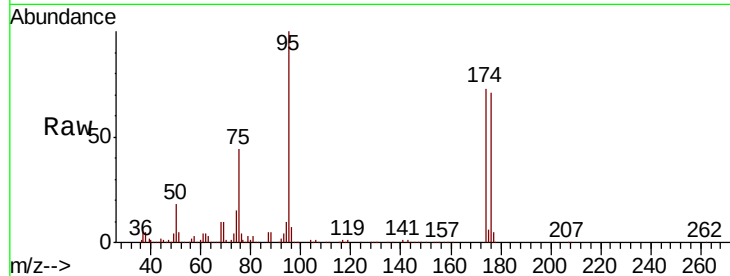
Tgt Ion: 95 Resp: 227542

Ion Ratio Lower Upper

95 100

174 72.6 0.0 149.0

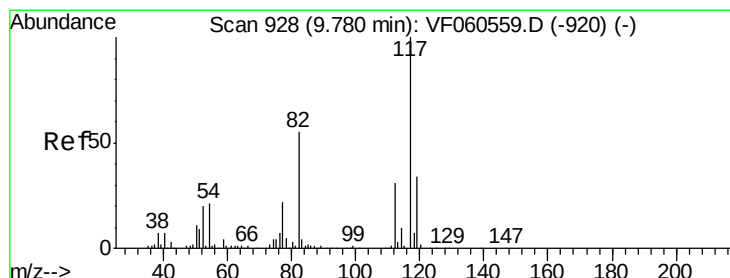
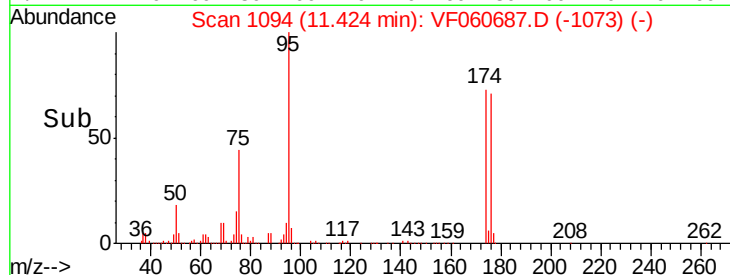
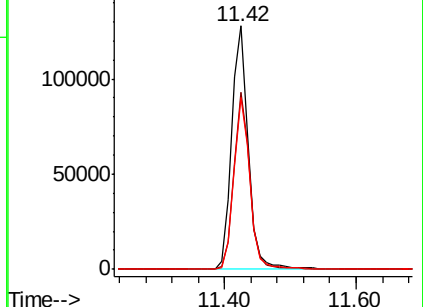
176 70.6 0.0 145.6



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: 9.79 min Scan# 928

Delta R.T. 0.01 min

Lab File: VF060687.D

Acq: 9 Nov 2018 22:28

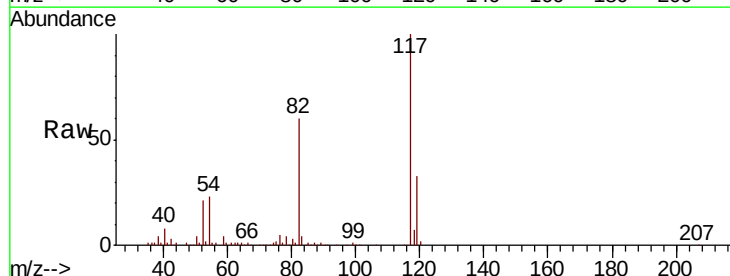
Tgt Ion: 117 Resp: 377376

Ion Ratio Lower Upper

117 100

82 60.0 43.9 65.9

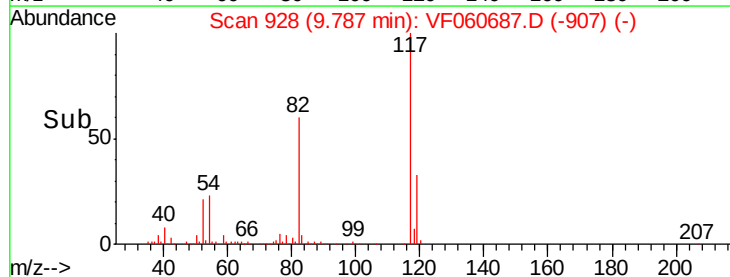
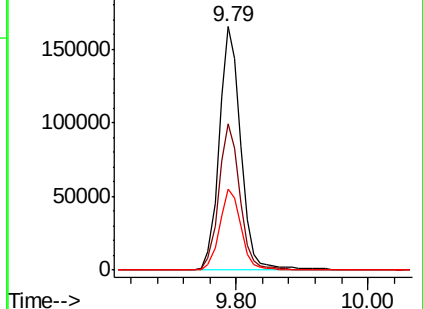
119 33.2 27.4 41.0

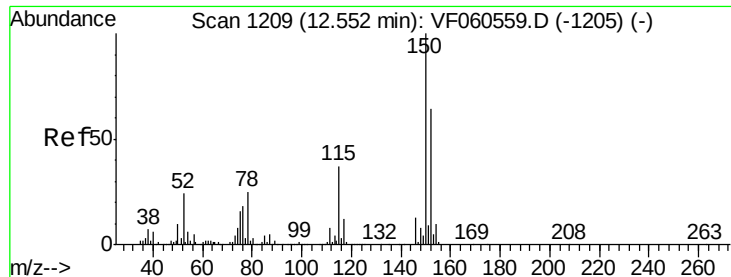


Abundance Ion 117.00 (116.70 to 117.70): V

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: 12.56 min Scan# 1209

Delta R.T. 0.01 min

Lab File: VF060687.D

Acq: 9 Nov 2018 22:28

Instrument :

MSVOA_F

ClientSampleId :

W-1-S

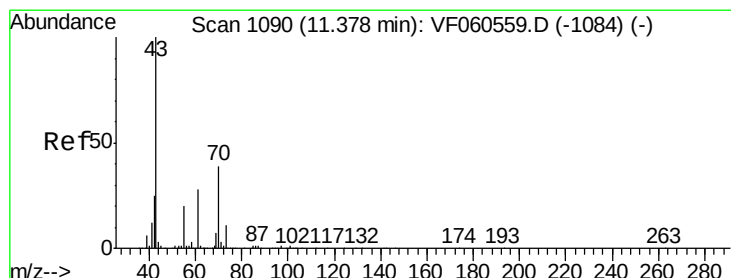
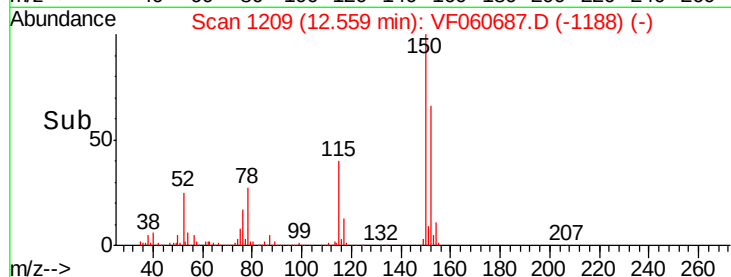
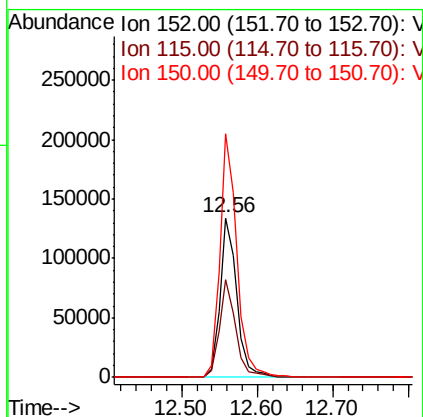
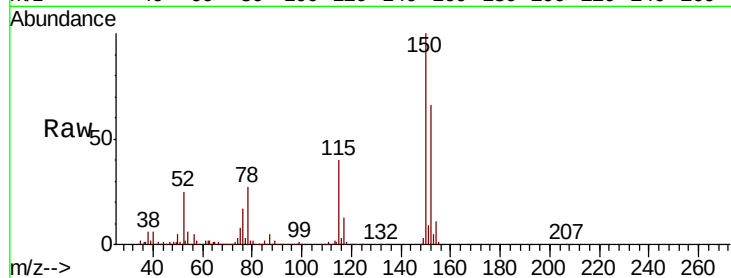
Tgt Ion:152 Resp: 209289

Ion Ratio Lower Upper

152 100

115 61.2 29.6 88.8

150 152.6 0.0 315.6



#74

N-amil acetate

Concen: Below Cal

RT: 11.38 min Scan# 1090

Delta R.T. 0.01 min

Lab File: VF060687.D

Acq: 9 Nov 2018 22:28

Tgt Ion: 43 Resp: 583

Ion Ratio Lower Upper

43 100

70 0.0 30.9 46.3#

55 54.8 16.6 24.8#

61 0.0 22.0 33.0#

