

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF110518\
 Data File : VF060577.D
 Acq On : 5 Nov 2018 17:20
 Operator : VA/AP
 Sample : J5724-03RE
 Misc : 5.04/5mL/MSVOA-F/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Nov 05 17:16:20 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	4.85	168	247764	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.58	114	432287	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.77	117	350103	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.55	152	180577	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.83	65	106682	42.62	ug/l	-0.01
Spiked Amount			Recovery	=	85.24%	
35) Dibromofluoromethane	4.09	113	132511	39.68	ug/l	-0.01
Spiked Amount			Recovery	=	79.36%	
50) Toluene-d8	7.54	98	340972	34.46	ug/l	-0.02
Spiked Amount			Recovery	=	68.92%	
62) 4-Bromofluorobenzene	11.40	95	158261	36.57	ug/l	-0.01
Spiked Amount			Recovery	=	73.14%	

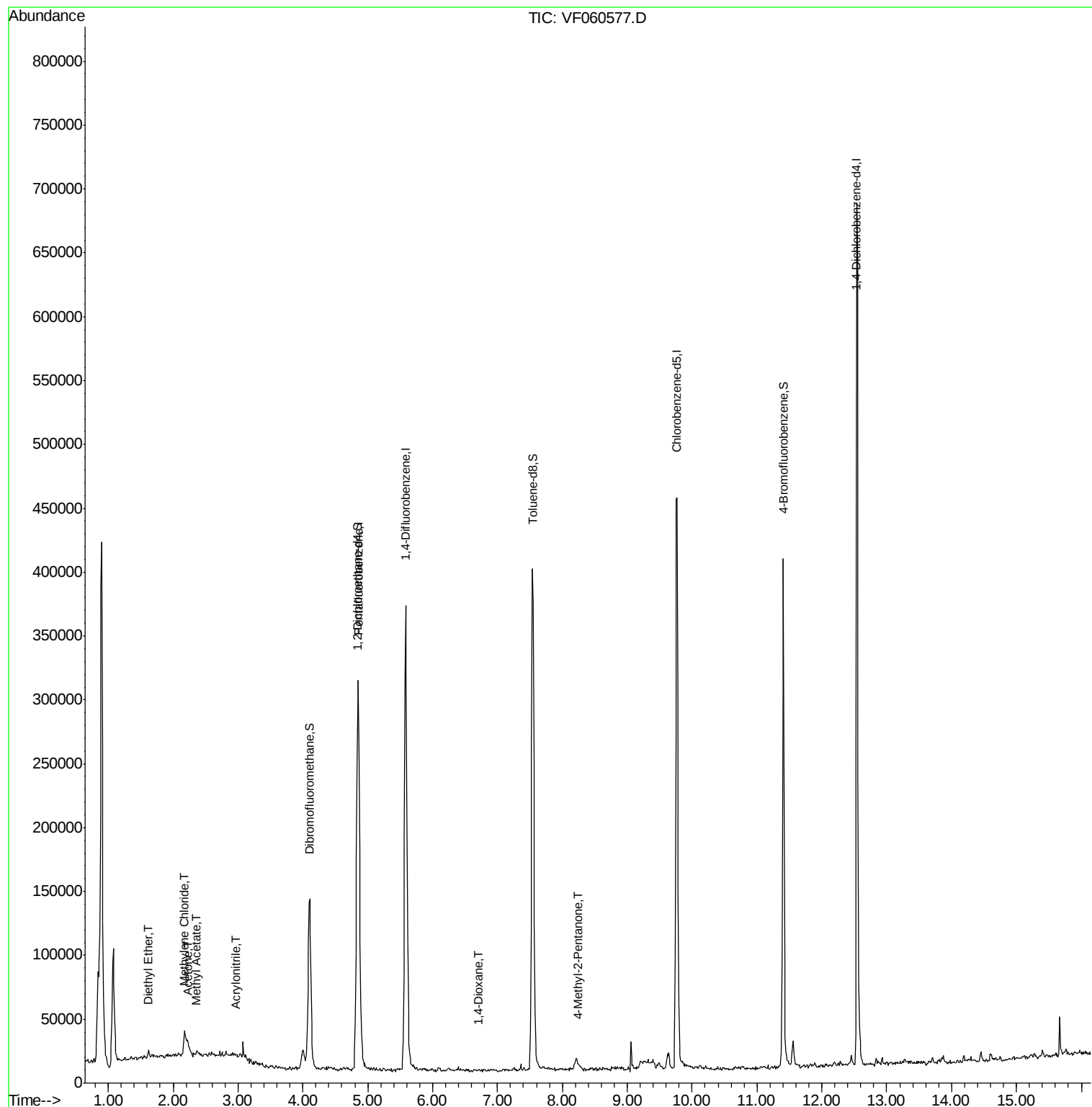
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.96	85	211	Below Cal	#	41
6) Chloroethane	1.35	64	347	Below Cal	#	1
8) Diethyl Ether	1.63	74	2003	2.890	ug/l	58
13) Acrolein	1.99	56	290	Below Cal	#	26
15) Acrylonitrile	2.98	53	410	1.374	ug/l #	30
16) Acetone	2.23	43	7473	12.669	ug/l	96
18) Methyl Acetate	2.36	43	3404	4.159	ug/l #	74
20) Methylene Chloride	2.18	84	15317	3.697	ug/l #	95
25) 2-Butanone	4.24	43	371	Below Cal		96
29) Tetrahydrofuran	4.36	42	540	Below Cal		91
49) 1,4-Dioxane	6.71	88	79	4.158	ug/l #	1
51) 4-Methyl-2-Pentanone	8.25	43	3943	2.029	ug/l	94
58) 2-Chloroethyl Vinyl ether	7.61	63	136	Below Cal		100
59) 2-Hexanone	9.49	43	5587	Below Cal		81
74) N-amyl acetate	11.37	43	1838	Below Cal	#	67
89) n-Butylbenzene	12.83	91	2180	Below Cal		91

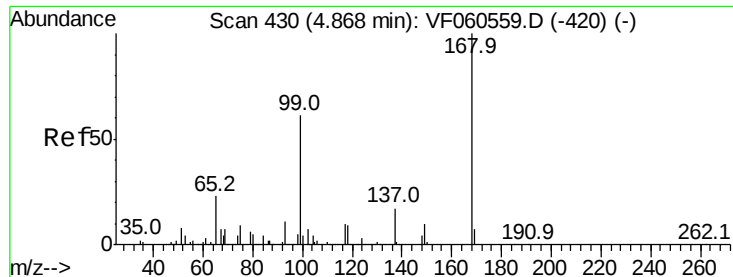
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.01 min

Lab File: VF060577.D

Acq: 5 Nov 2018 17:20

Instrument :

MSVOA_F

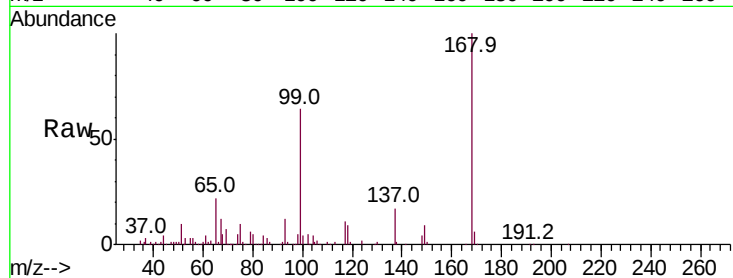
ClientSampleId :

Tot Ion:168 Resp: 247764

Ion Ratio Lower Upper

168 100

99 63.7 48.6 72.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.85

80000

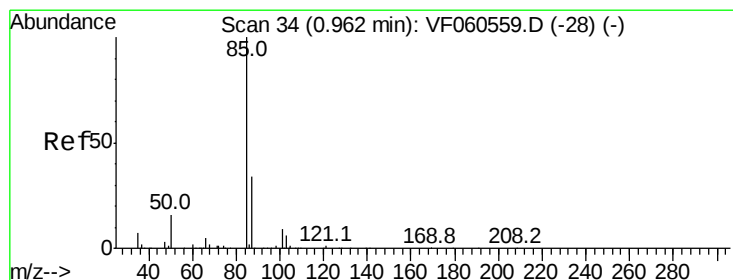
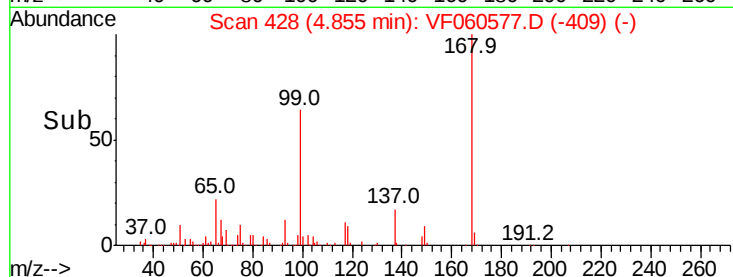
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.96 min Scan# 33

Delta R.T. -0.00 min

Lab File: VF060577.D

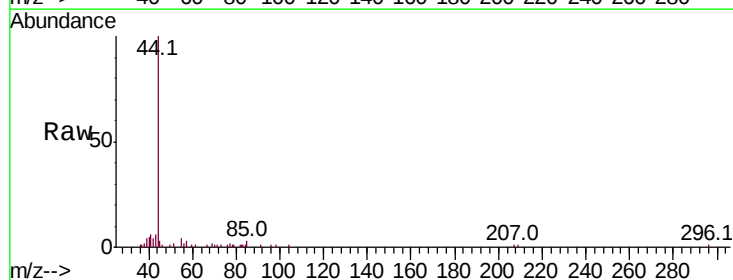
Acq: 5 Nov 2018 17:20

Tgt Ion: 85 Resp: 211

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

400

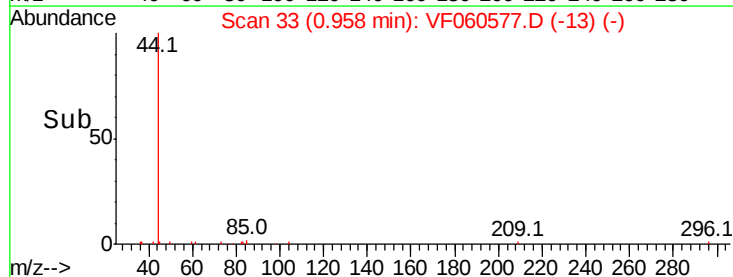
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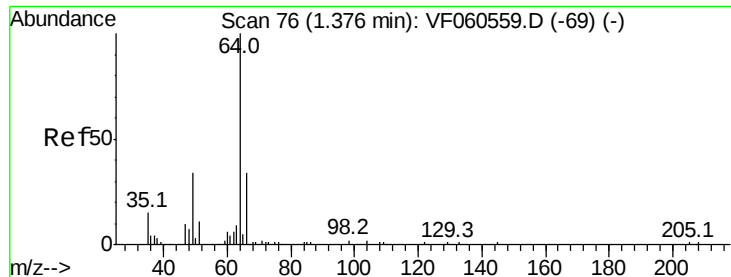
200

100

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.35 min Scan# 73

Delta R.T. -0.02 min

Lab File: VF060577.D

Acq: 5 Nov 2018 17:20

Instrument :

MSVOA_F

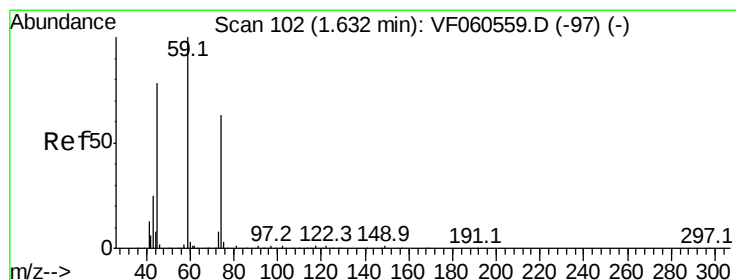
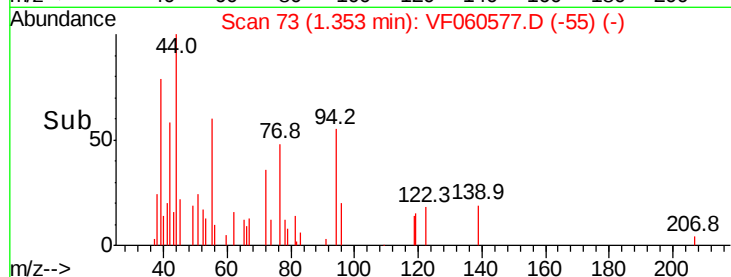
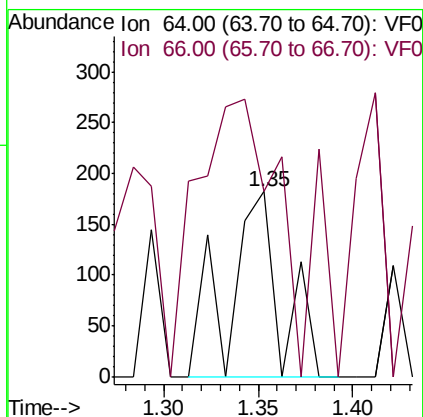
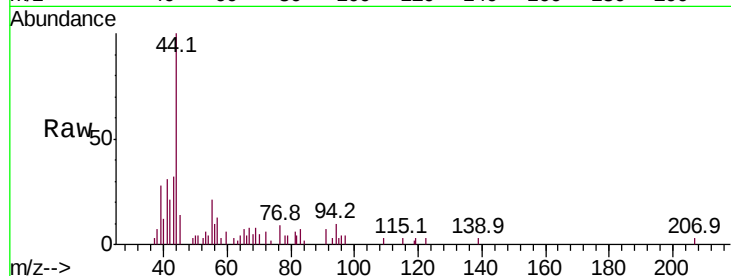
ClientSampleId :

Tot Ion: 64 Resp: 347

Ion Ratio Lower Upper

64 100

66 100.0 27.8 41.8#



#8

Diethyl Ether

Concen: 2.890 ug/l

RT: 1.63 min Scan# 101

Delta R.T. -0.00 min

Lab File: VF060577.D

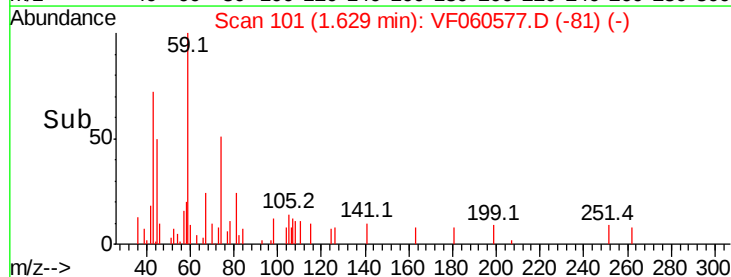
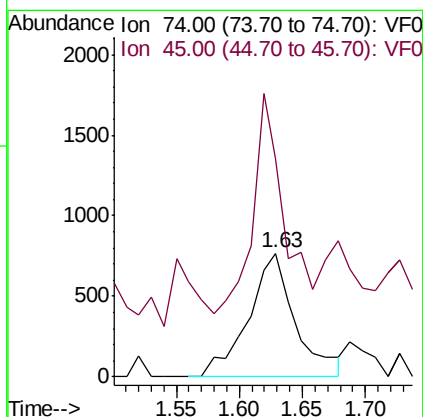
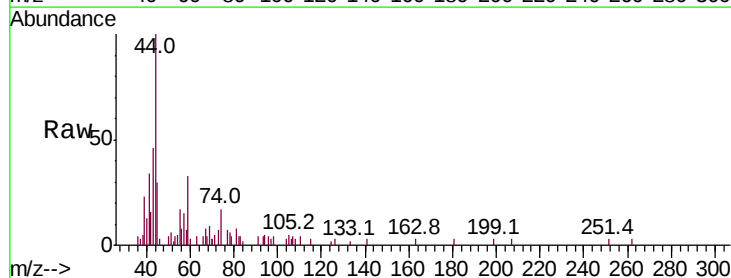
Acq: 5 Nov 2018 17:20

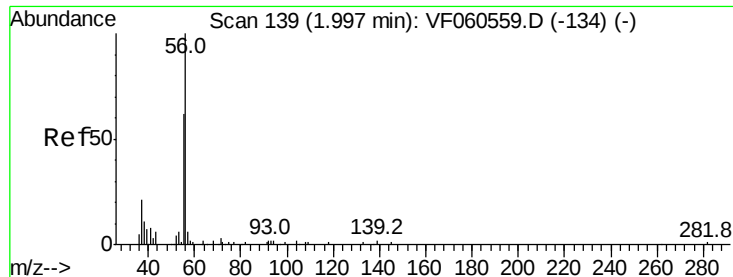
Tgt Ion: 74 Resp: 2003

Ion Ratio Lower Upper

74 100

45 176.2 63.8 191.5





#13

Acrolein

Concen: Below Cal

RT: 1.99 min Scan# 138

Delta R.T. -0.00 min

Lab File: VF060577.D

Acq: 5 Nov 2018 17:20

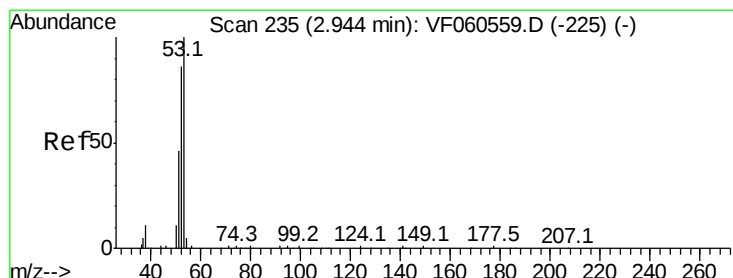
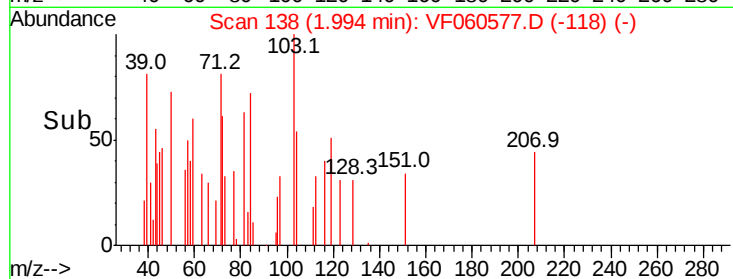
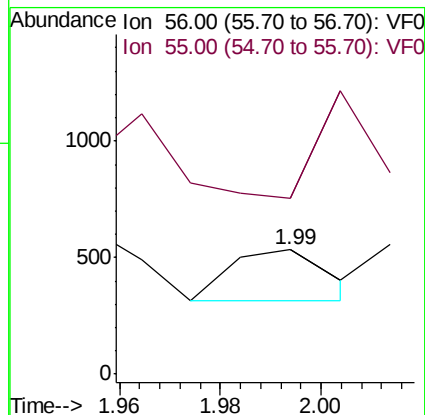
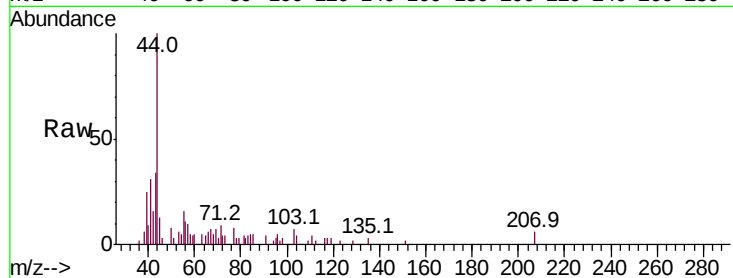
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 56 Resp: 290

Ion Ratio Lower Upper

56 100

55 141.7 61.8 92.6#



#15

Acrylonitrile

Concen: 1.374 ug/l

RT: 2.98 min Scan# 238

Delta R.T. 0.04 min

Lab File: VF060577.D

Acq: 5 Nov 2018 17:20

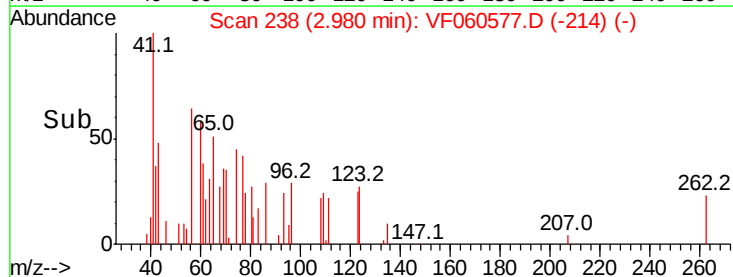
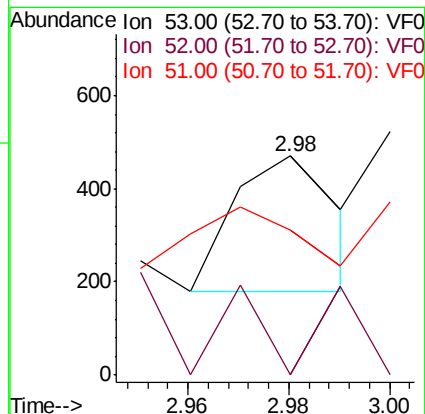
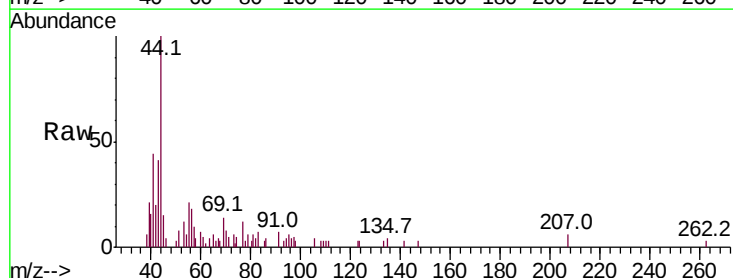
Tgt Ion: 53 Resp: 410

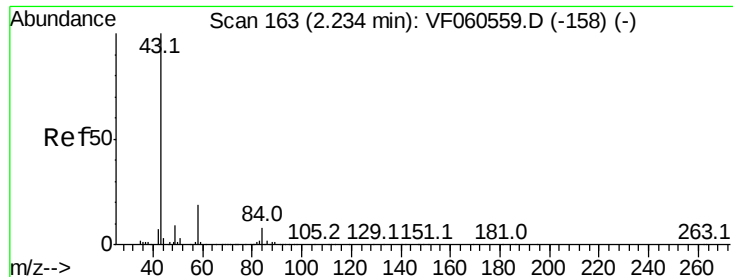
Ion Ratio Lower Upper

53 100

52 0.0 68.5 102.7#

51 66.2 38.2 57.2#

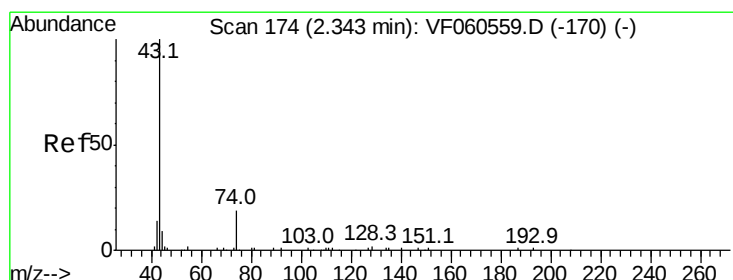
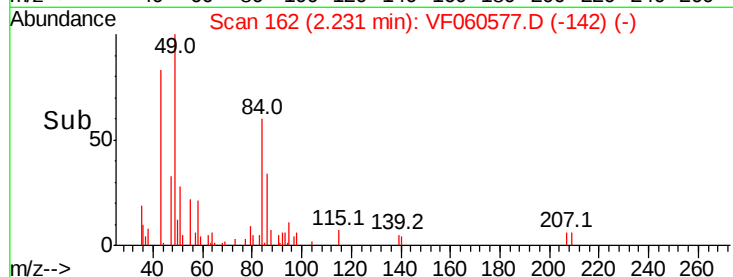
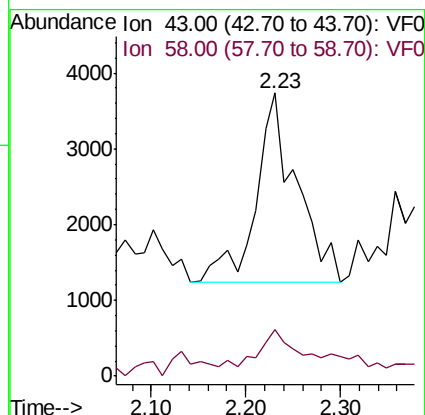
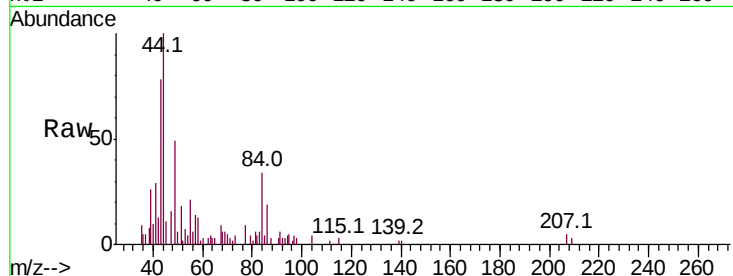




#16
Acetone
Concen: 12.669 ug/l
RT: 2.23 min Scan# 162
Delta R.T. -0.00 min
Lab File: VF060577.D
Acq: 5 Nov 2018 17:20

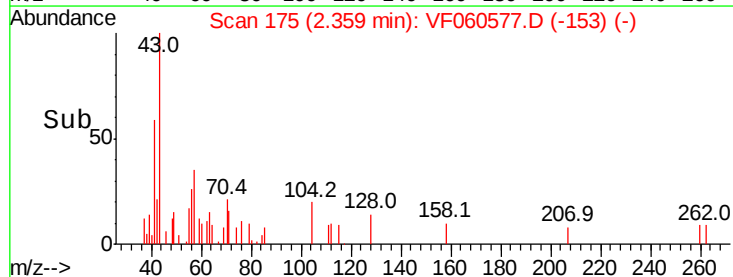
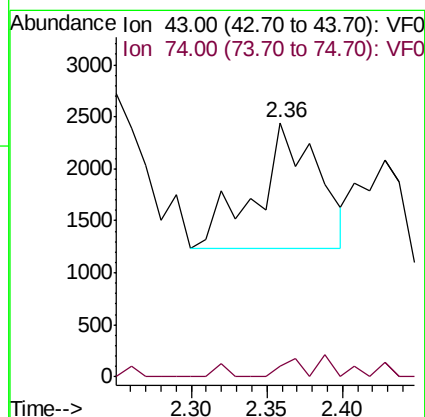
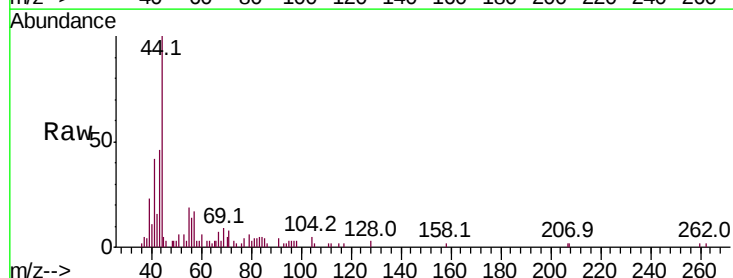
Instrument :
MSVOA_F
ClientSampleId :

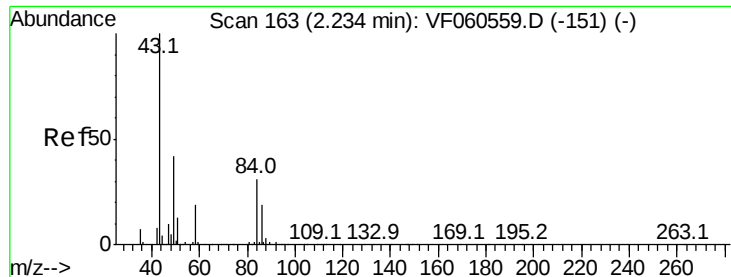
Tot Ion: 43 Resp: 7473
Ion Ratio Lower Upper
43 100
58 16.6 14.6 22.0



#18
Methyl Acetate
Concen: 4.159 ug/l
RT: 2.36 min Scan# 175
Delta R.T. 0.02 min
Lab File: VF060577.D
Acq: 5 Nov 2018 17:20

Tgt Ion: 43 Resp: 3404
Ion Ratio Lower Upper
43 100
74 4.2 12.1 18.1#

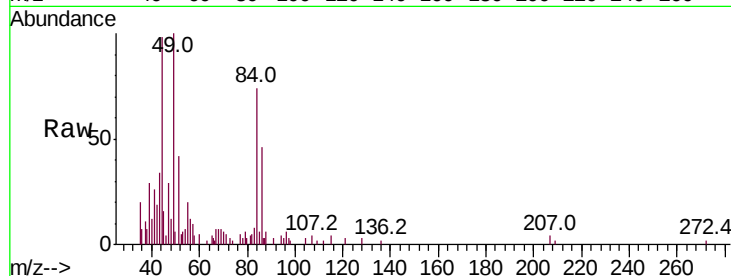




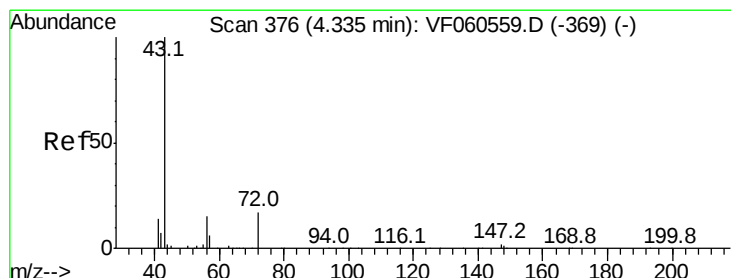
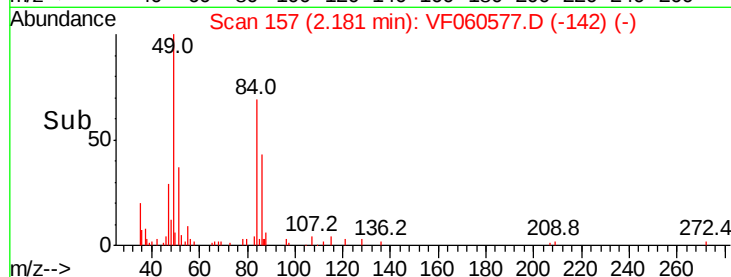
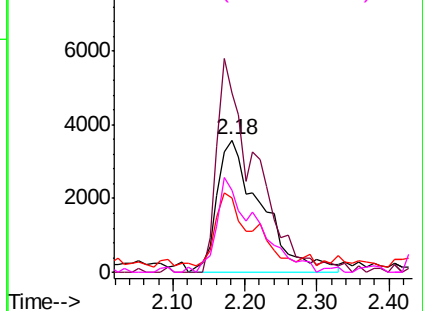
#20
Methvlene Chloride
Concen: 3.697 ug/l
RT: 2.18 min Scan# 157
Delta R.T. -0.05 min
Lab File: VF060577.D
Acq: 5 Nov 2018 17:20

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 84 Resp: 15317
Ion Ratio Lower Upper
84 100
49 135.1 109.9 164.9
51 56.3 35.8 53.8#
86 61.7 48.3 72.5

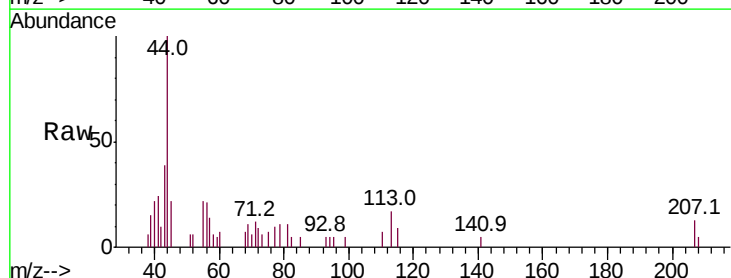


Abundance Ion 84.00 (83.70 to 84.70): VF0
Ion 49.00 (48.70 to 49.70): VF0
Ion 51.00 (50.70 to 51.70): VF0
Ion 86.00 (85.70 to 86.70): VF0

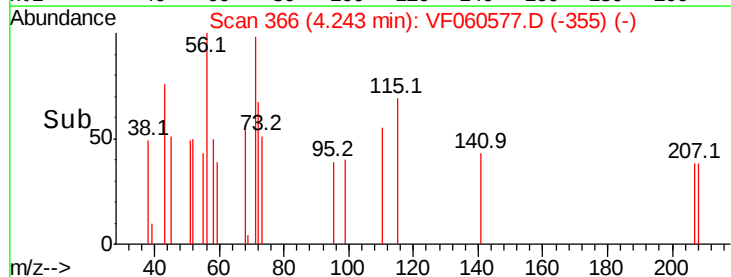
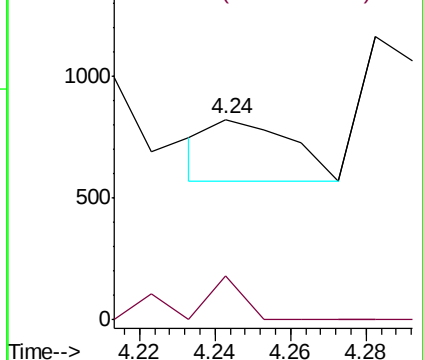


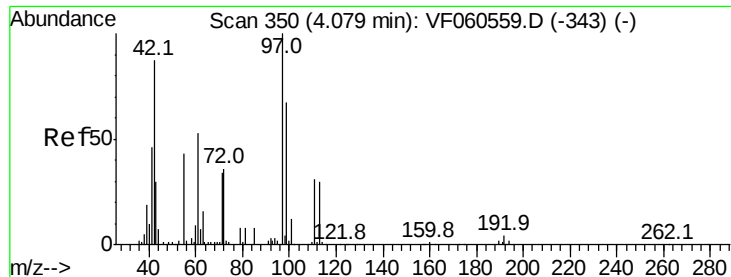
#25
2-Butanone
Concen: Below Cal
RT: 4.24 min Scan# 366
Delta R.T. -0.09 min
Lab File: VF060577.D
Acq: 5 Nov 2018 17:20

Tgt Ion: 43 Resp: 371
Ion Ratio Lower Upper
43 100
72 22.0 16.2 24.2



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 72.00 (71.70 to 72.70): VF0





#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.36 min Scan# 378

Delta R.T. 0.28 min

Lab File: VF060577.D

Acq: 5 Nov 2018 17:20

Instrument :
MSVOA_F
ClientSampled :

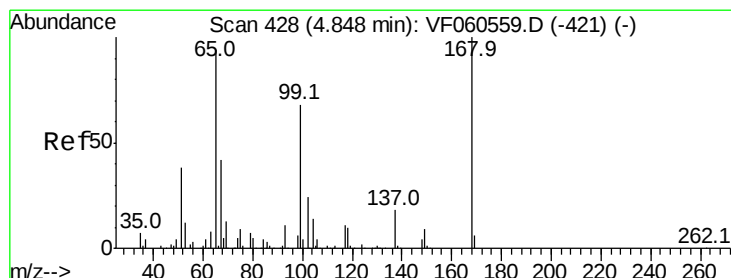
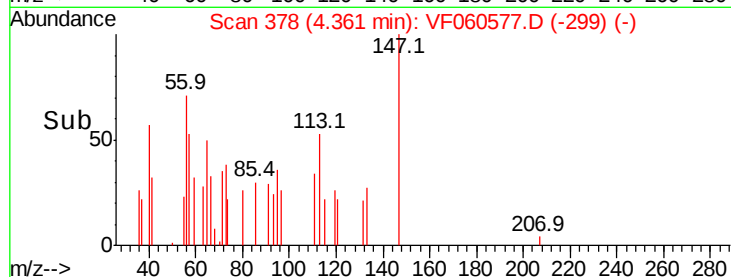
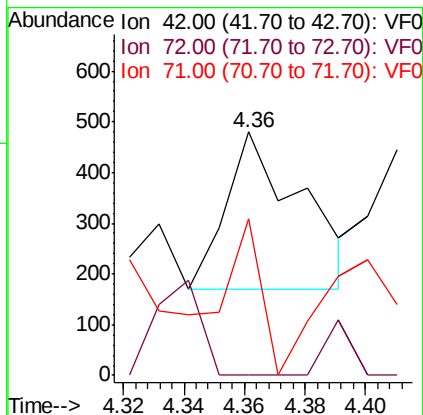
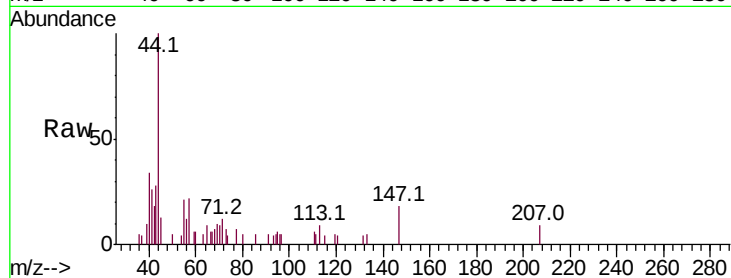
Tot Ion: 42 Resp: 540

Ion Ratio Lower Upper

42 100

72 35.9 31.4 47.0

71 47.6 31.8 47.6



#33

1,2-Dichloroethane-d4

Concen: 42.616 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.01 min

Lab File: VF060577.D

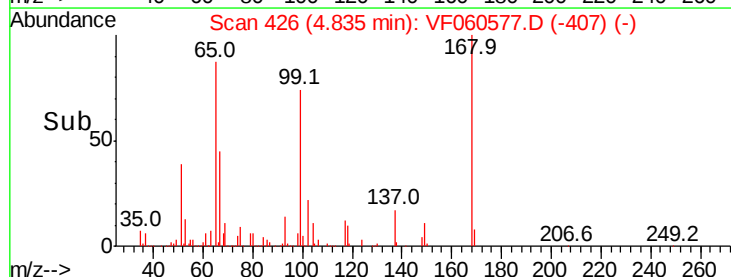
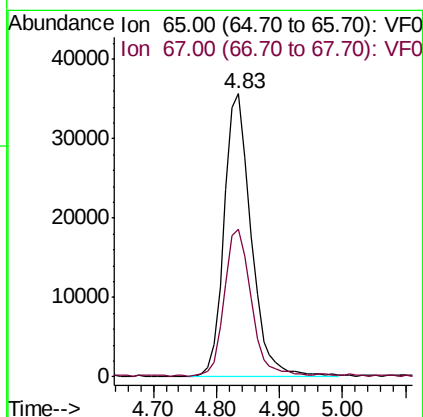
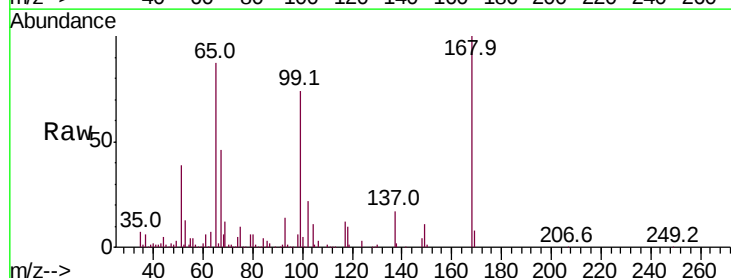
Acq: 5 Nov 2018 17:20

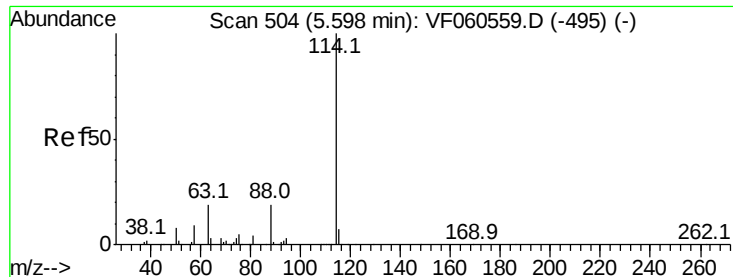
Tgt Ion: 65 Resp: 106682

Ion Ratio Lower Upper

65 100

67 52.4 0.0 101.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.58 min Scan# 502

Delta R.T. -0.01 min

Lab File: VF060577.D

Acq: 5 Nov 2018 17:20

Instrument :

MSVOA_F

ClientSampleId :

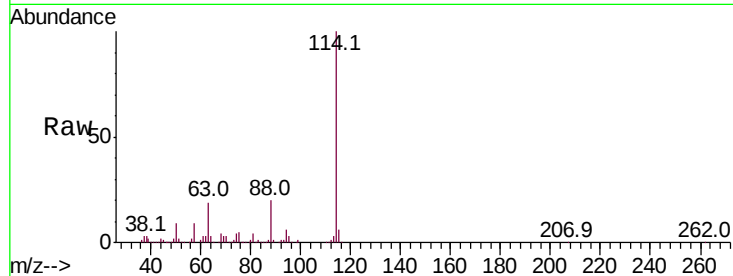
Tot Ion:114 Resp: 432287

Ion Ratio Lower Upper

114 100

63 19.1 0.0 39.0

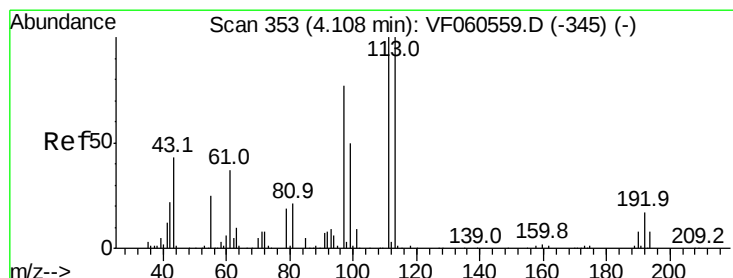
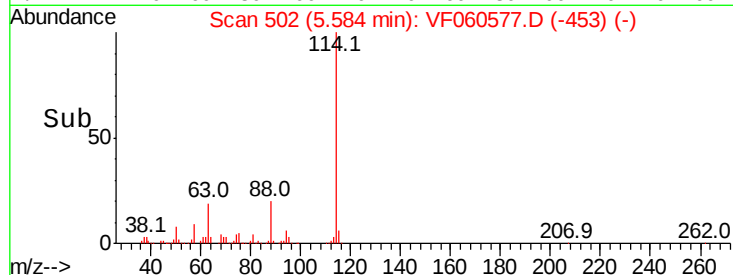
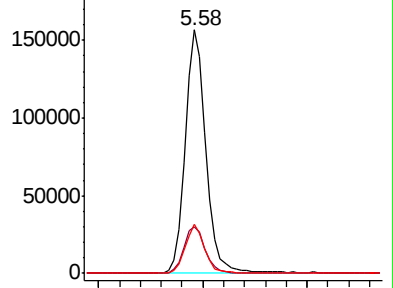
88 20.1 0.0 38.2



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: 39.676 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.01 min

Lab File: VF060577.D

Acq: 5 Nov 2018 17:20

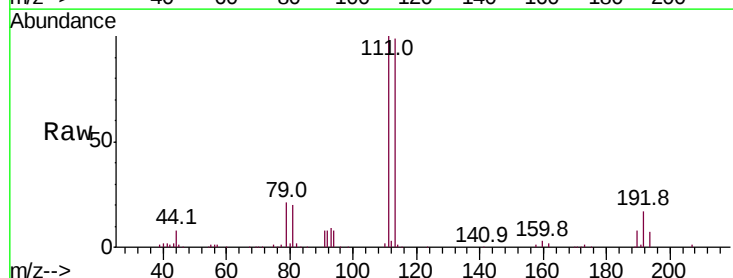
Tgt Ion:113 Resp: 132511

Ion Ratio Lower Upper

113 100

111 101.3 79.9 119.9

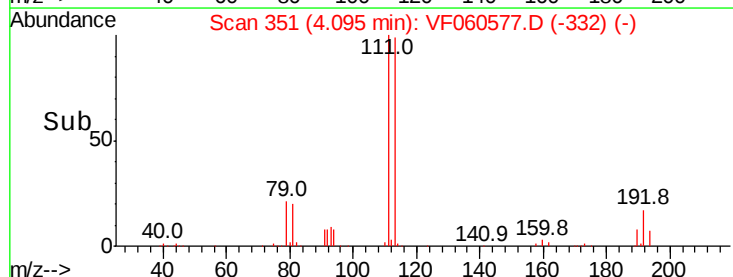
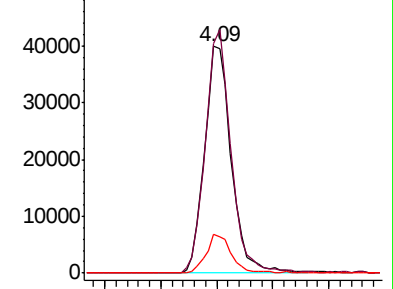
192 17.2 13.3 19.9

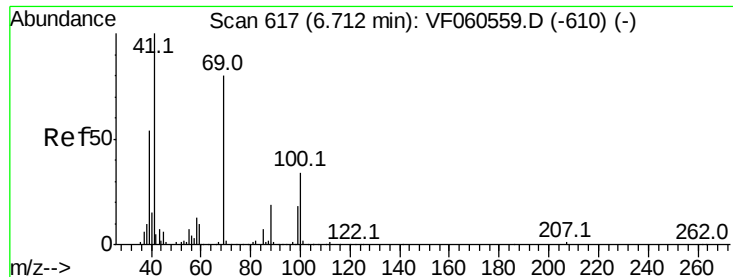


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

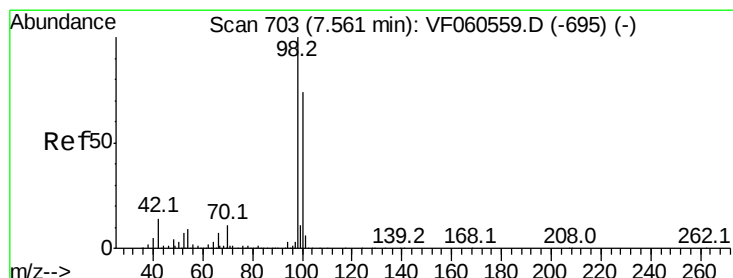
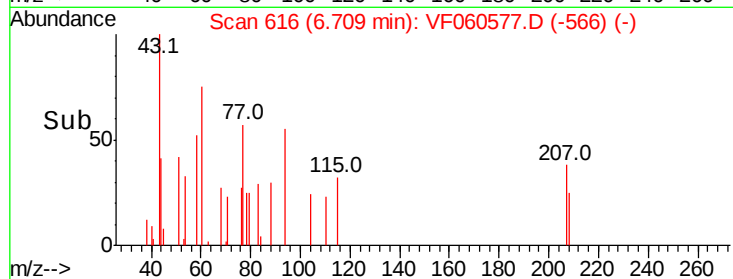
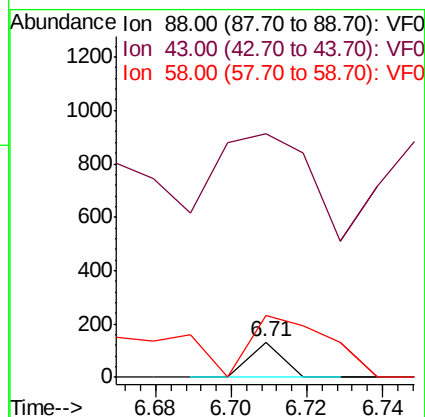
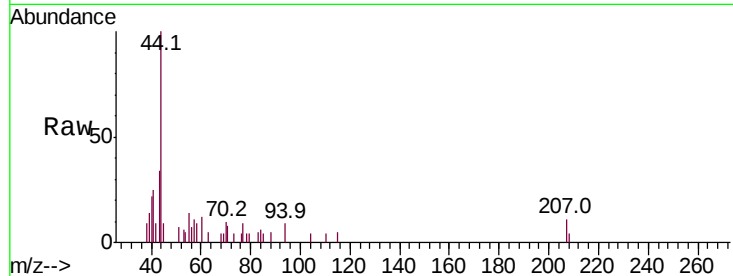




#49
1,4-Dioxane
Concen: 4.158 ug/l
RT: 6.71 min Scan# 616
Delta R.T. -0.00 min
Lab File: VF060577.D
Acq: 5 Nov 2018 17:20

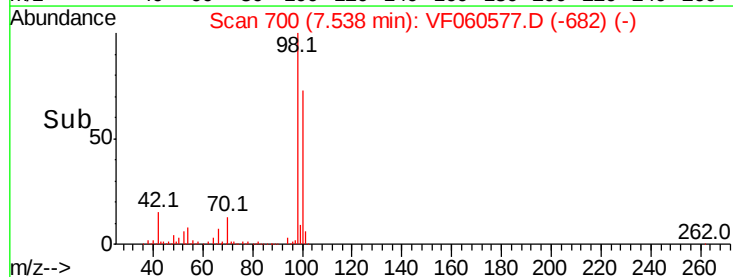
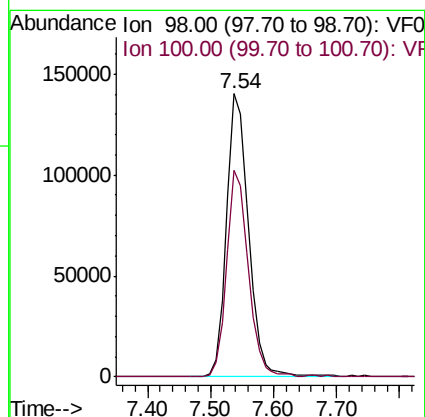
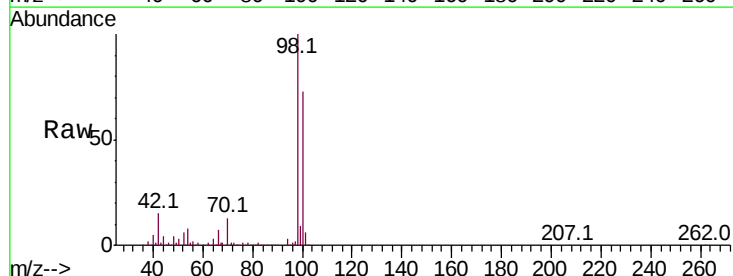
Instrument :
MSVOA_F
ClientSampleId :

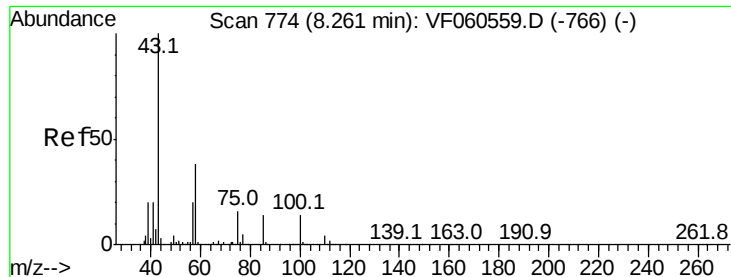
Tot Ion: 88 Resp: 79
Ion Ratio Lower Upper
88 100
43 685.7 61.2 91.8#
58 172.9 56.9 85.3#



#50
Toluene-d8
Concen: 34.464 ug/l
RT: 7.54 min Scan# 700
Delta R.T. -0.02 min
Lab File: VF060577.D
Acq: 5 Nov 2018 17:20

Tgt Ion: 98 Resp: 340972
Ion Ratio Lower Upper
98 100
100 73.1 59.4 89.2





#51

4-Methyl-2-Pentanone

Concen: 2.029 ug/l

RT: 8.25 min Scan# 772

Delta R.T. -0.01 min

Lab File: VF060577.D

Acq: 5 Nov 2018 17:20

Instrument :

MSVOA_F

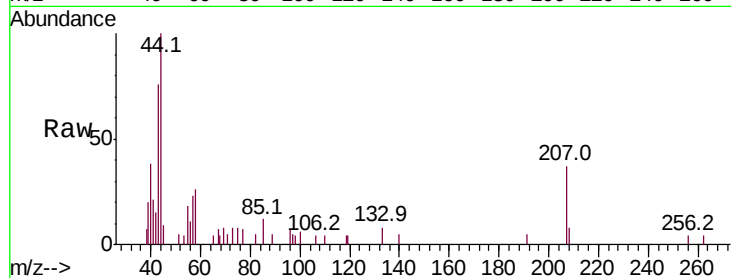
ClientSampleId :

Tot Ion: 43 Resp: 3943

Ion Ratio Lower Upper

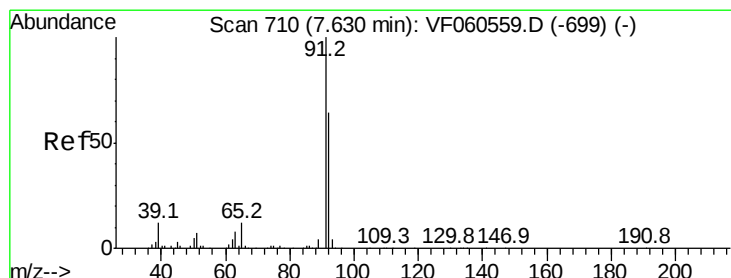
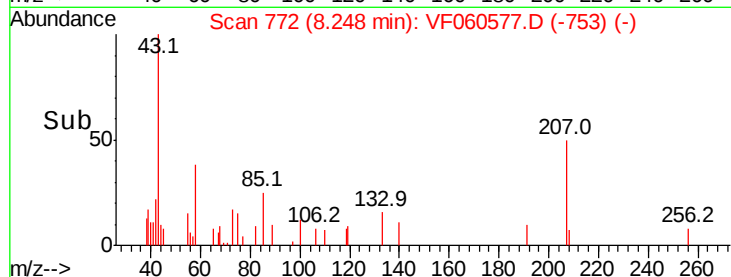
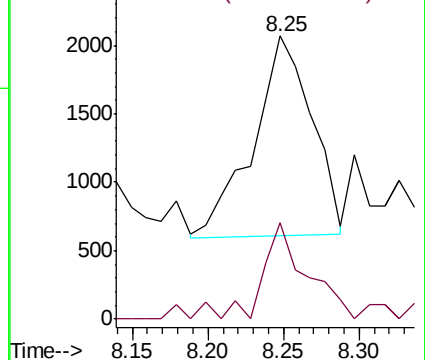
43 100

58 34.2 30.1 45.1



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: Below Cal

RT: 7.61 min Scan# 707

Delta R.T. -0.02 min

Lab File: VF060577.D

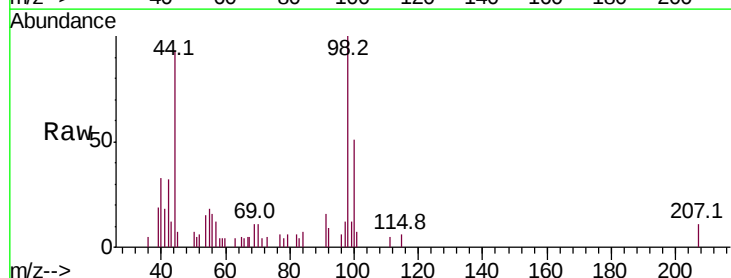
Acq: 5 Nov 2018 17:20

Tgt Ion: 63 Resp: 136

Ion Ratio Lower Upper

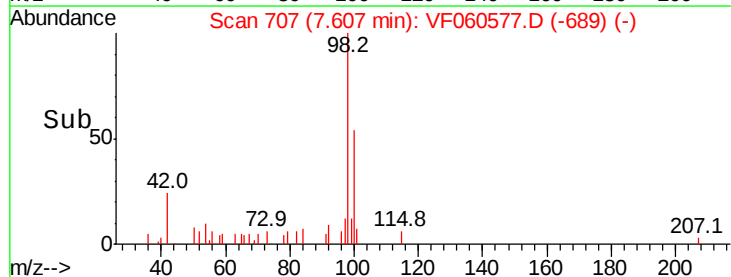
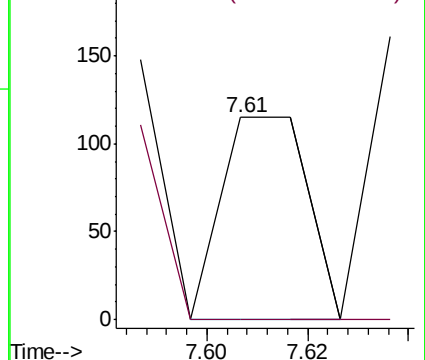
63 100

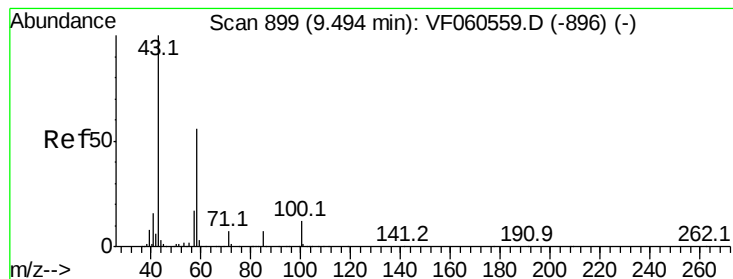
106 0.0 0.0 0.0



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: 9.49 min Scan# 898

Delta R.T. -0.00 min

Lab File: VF060577.D

Acq: 5 Nov 2018 17:20

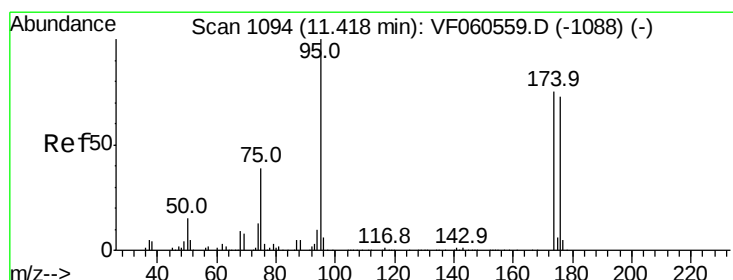
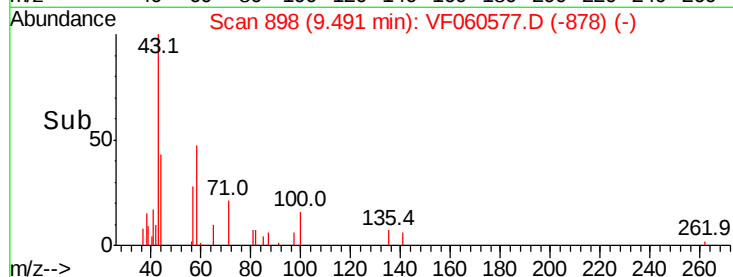
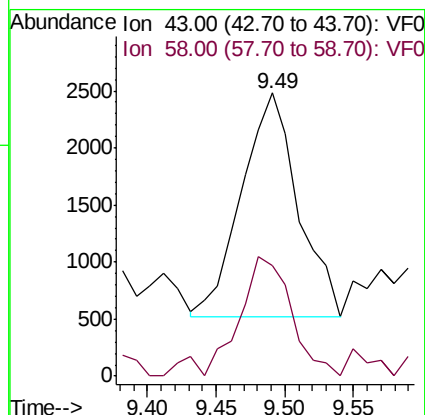
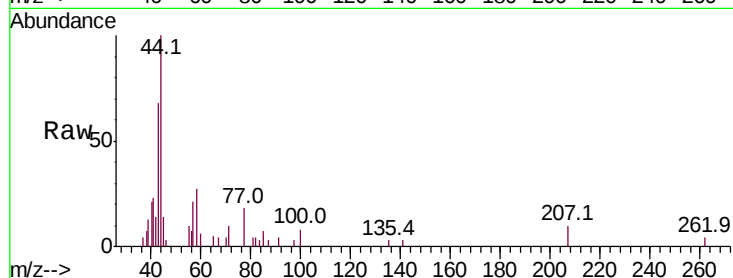
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 5587

Ion Ratio Lower Upper

43 100

58 39.1 26.1 78.3



#62

4-Bromofluorobenzene

Concen: 36.570 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.01 min

Lab File: VF060577.D

Acq: 5 Nov 2018 17:20

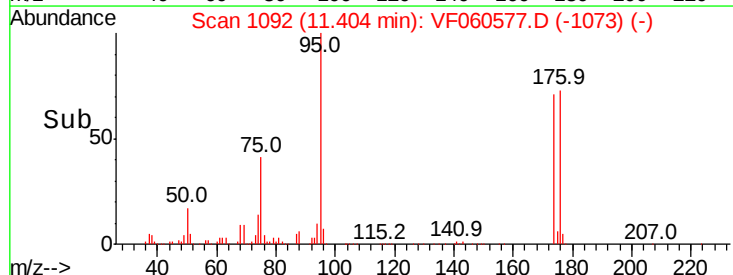
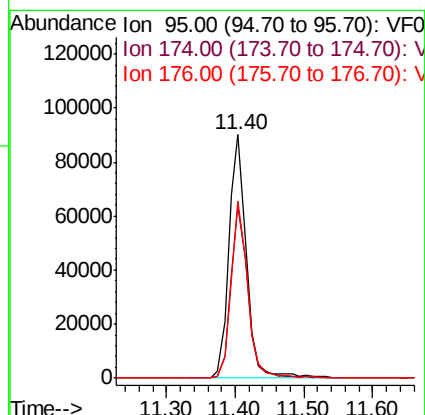
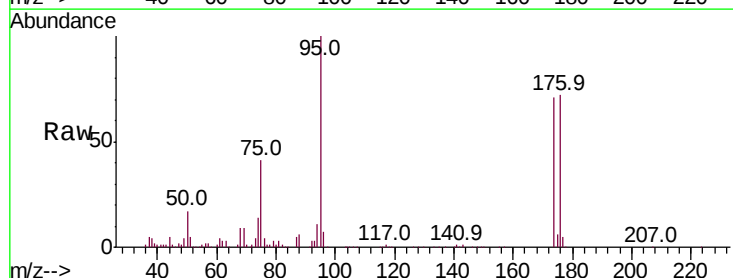
Tgt Ion: 95 Resp: 158261

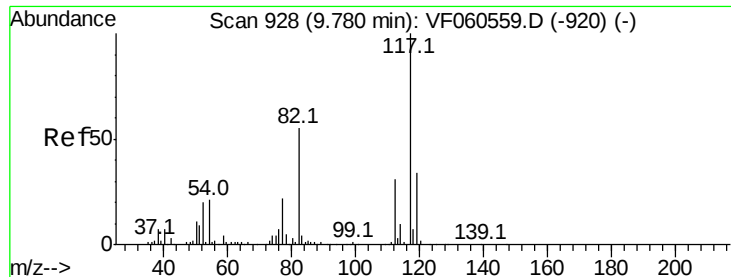
Ion Ratio Lower Upper

95 100

174 70.7 0.0 149.0

176 72.5 0.0 145.6

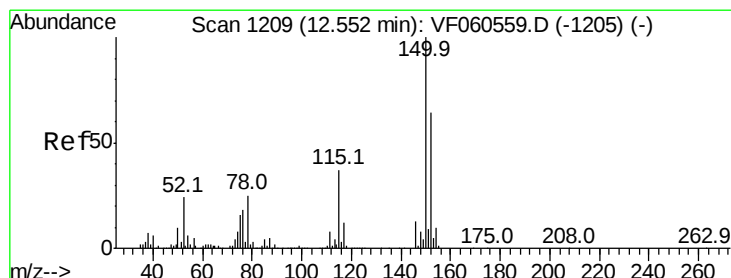
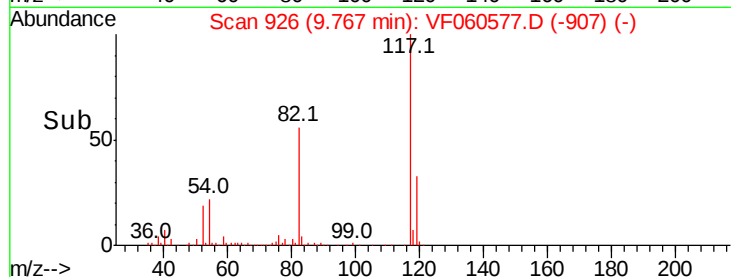
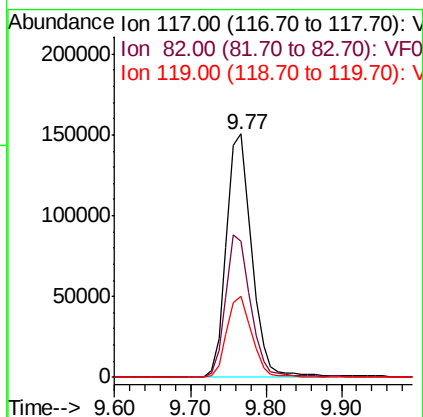
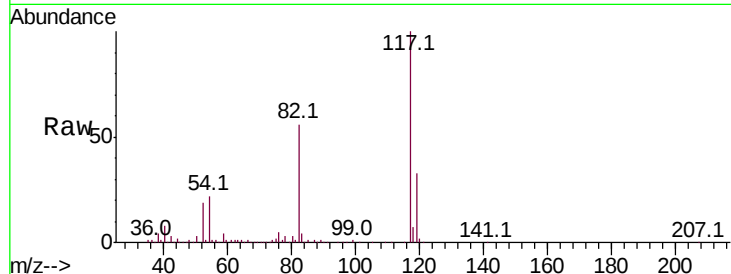




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 926
Delta R.T. -0.01 min
Lab File: VF060577.D
Acq: 5 Nov 2018 17:20

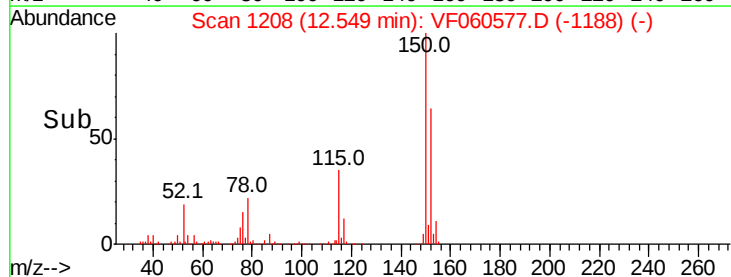
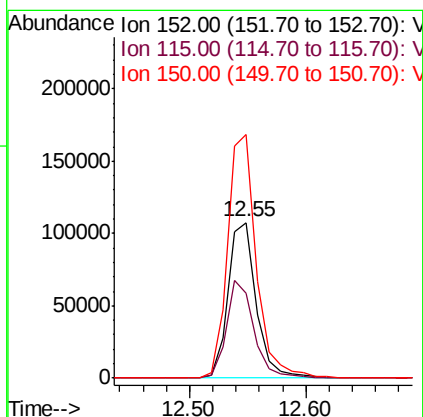
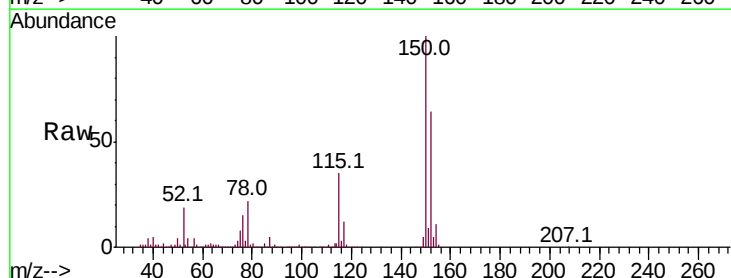
Instrument :
MSVOA_F
ClientSampleId :

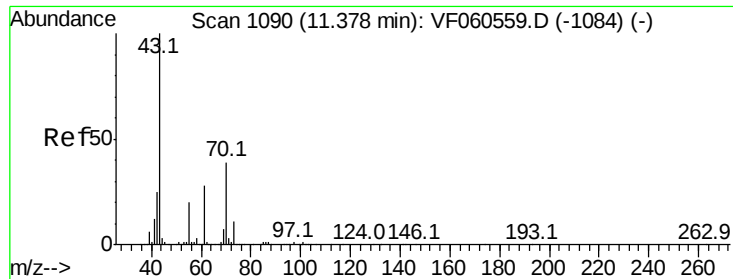
Tot Ion:117 Resp: 350103
Ion Ratio Lower Upper
117 100
82 56.1 43.9 65.9
119 33.3 27.4 41.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1208
Delta R.T. -0.00 min
Lab File: VF060577.D
Acq: 5 Nov 2018 17:20

Tgt Ion:152 Resp: 180577
Ion Ratio Lower Upper
152 100
115 54.7 29.6 88.8
150 156.3 0.0 315.6





#74
 N-amvl acetate
 Concen: Below Cal
 RT: 11.37 min Scan# 1089
 Delta R.T. -0.00 min
 Lab File: VF060577.D
 Acq: 5 Nov 2018 17:20

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion: 43 Resp: 1838
 Ion Ratio Lower Upper
 43 100
 70 17.7 30.9 46.3#
 55 47.0 16.6 24.8#
 61 20.5 22.0 33.0#

