

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF110518\
 Data File : VF060599.D
 Acq On : 6 Nov 2018 7:11
 Operator : VA/AP
 Sample : J5776-05
 Misc : 4.19/5mL/MSVOA-F/SOIL
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Nov 06 07:44:05 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	4.87	168	236600	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	511113	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.79	117	424868	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	227698	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.84	65	127609	53.38	ug/l	0.00
Spiked Amount			Recovery	=	106.76%	
35) Dibromofluoromethane	4.11	113	160567	40.66	ug/l	0.00
Spiked Amount			Recovery	=	81.32%	
50) Toluene-d8	7.57	98	290639	24.85	ug/l	0.00
Spiked Amount			Recovery	=	49.70%	
62) 4-Bromofluorobenzene	11.41	95	193092	37.74	ug/l	0.00
Spiked Amount			Recovery	=	75.48%	

Target Compounds

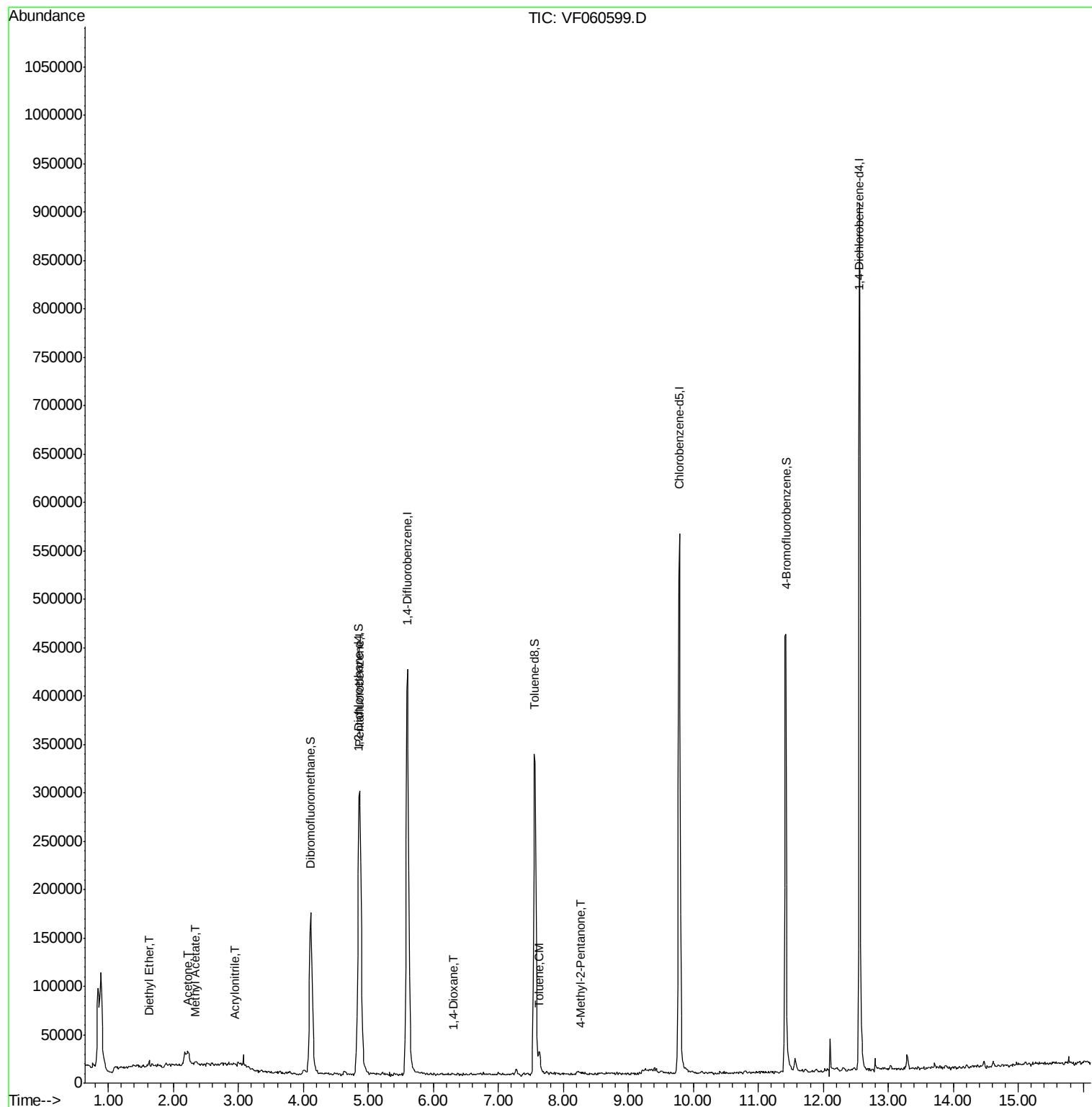
					Qvalue
2) Dichlorodifluoromethane	0.95	85	426	Below Cal	# 41
6) Chloroethane	1.34	64	72	Below Cal	# 1
8) Diethyl Ether	1.63	74	1589	2.401	ug/l 58
11) Tert butyl alcohol	2.56	59	153	Below Cal	# 1
13) Acrolein	2.00	56	554	Below Cal	# 1
15) Acrylonitrile	2.96	53	733	2.573	ug/l # 26
16) Acetone	2.23	43	3611	6.410	ug/l # 78
18) Methyl Acetate	2.34	43	5778	7.019	ug/l # 87
20) Methylene Chloride	2.22	84	7464	Below Cal	# 87
25) 2-Butanone	4.35	43	2124	Below Cal	# 56
29) Tetrahydrofuran	4.10	42	916	Below Cal	# 56
49) 1,4-Dioxane	6.31	88	71	3.160	ug/l # 1
51) 4-Methyl-2-Pentanone	8.27	43	3525	1.534	ug/l # 82
52) Toluene	7.64	92	10803	1.214	ug/l 82
58) 2-Chloroethyl Vinyl ether	7.64	63	1870	Below Cal	100
59) 2-Hexanone	9.50	43	4200	Below Cal	64
74) N-amyl acetate	11.37	43	1859	Below Cal	# 44
89) n-Butylbenzene	12.85	91	1190	Below Cal	# 63

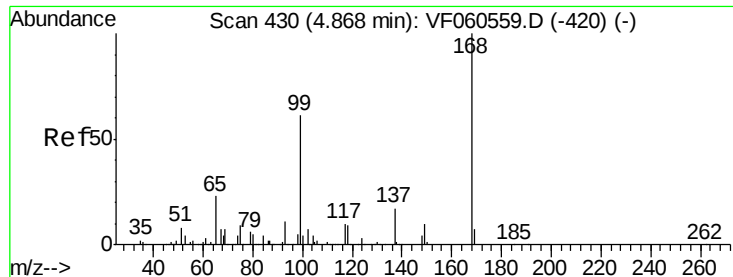
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VF060599.D
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Quant Title : SW846 8260
QLast Update : Sat Nov 03 05:29:31 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. 0.01 min

Lab File: VF060599.D

Acq: 6 Nov 2018 7:11

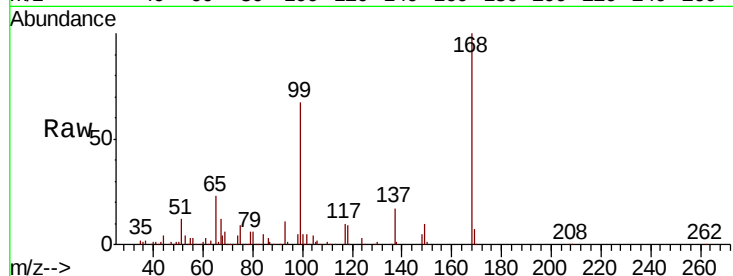
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 236600

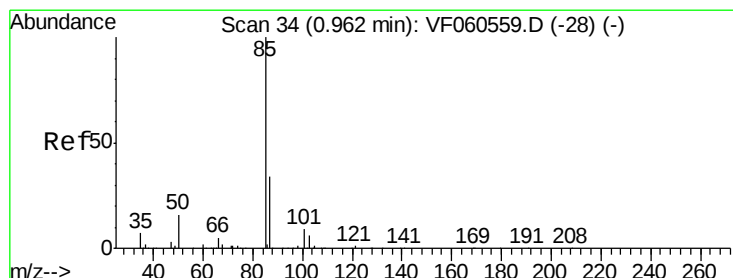
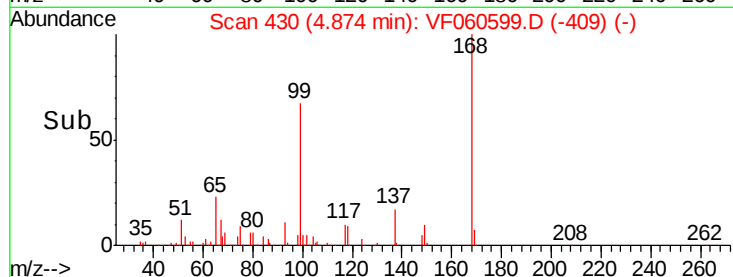
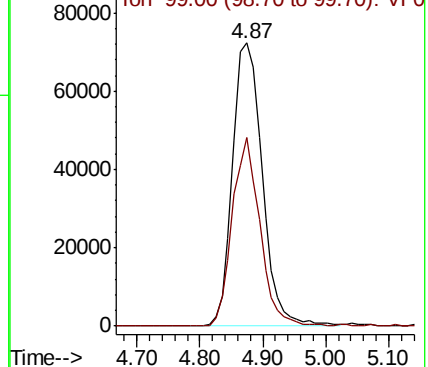
Ion Ratio Lower Upper

168 100

99 66.8 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: 0.95 min Scan# 32

Delta R.T. -0.01 min

Lab File: VF060599.D

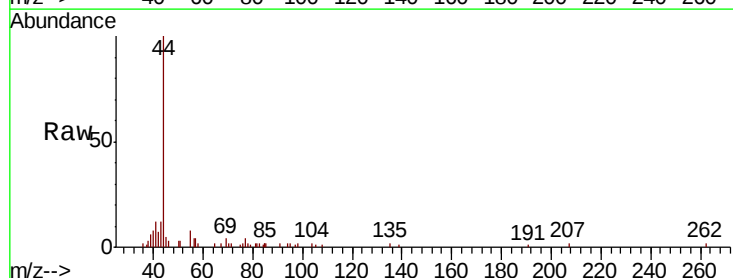
Acq: 6 Nov 2018 7:11

Tgt Ion: 85 Resp: 426

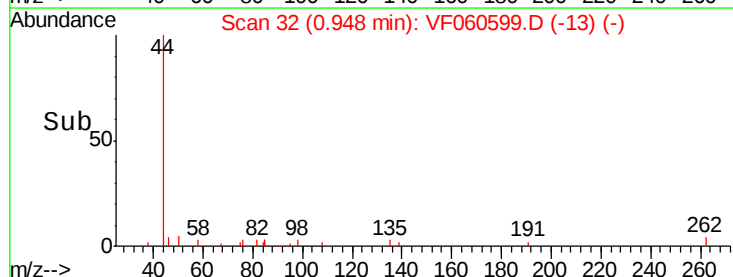
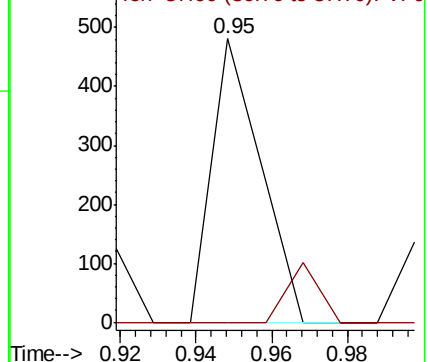
Ion Ratio Lower Upper

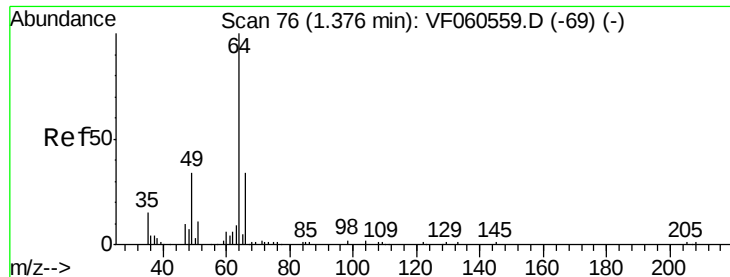
85 100

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: 1.34 min Scan# 72

Delta R.T. -0.03 min

Lab File: VF060599.D

Acq: 6 Nov 2018 7:11

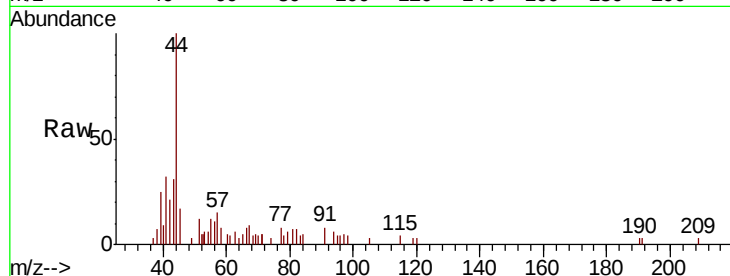
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 64 Resp: 72

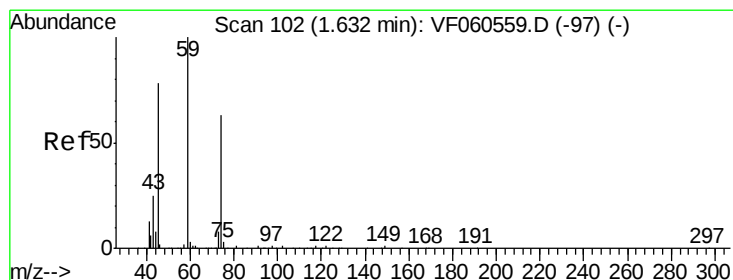
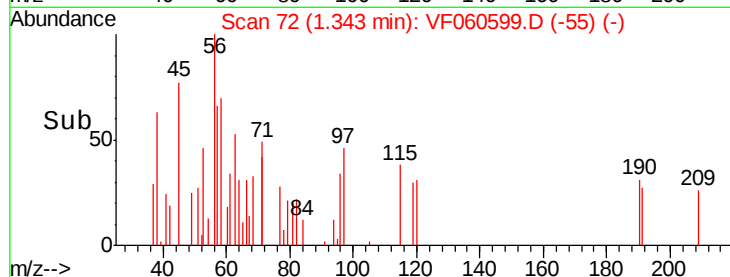
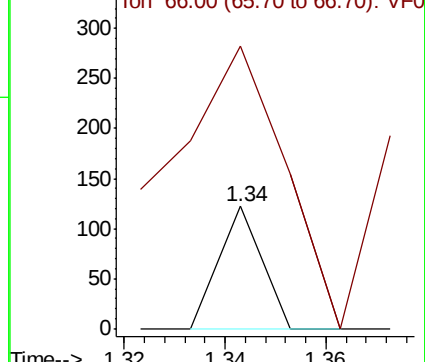
Ion Ratio Lower Upper

64 100

66 232.0 27.8 41.8#



Abundance Ion 64.00 (63.70 to 64.70): VF0



#8

Diethyl Ether

Concen: 2.401 ug/l

RT: 1.63 min Scan# 101

Delta R.T. -0.00 min

Lab File: VF060599.D

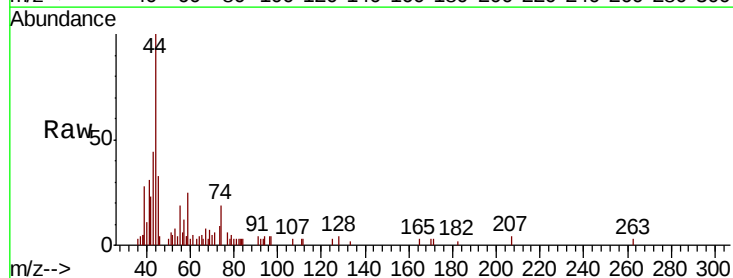
Acq: 6 Nov 2018 7:11

Tgt Ion: 74 Resp: 1589

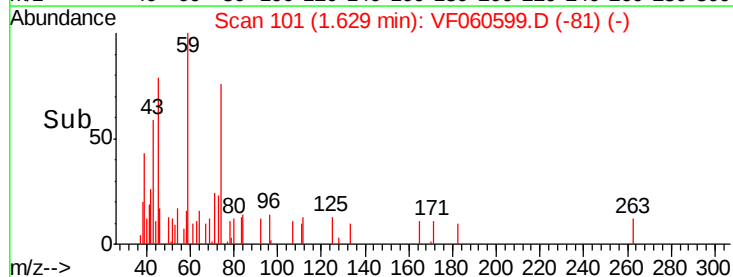
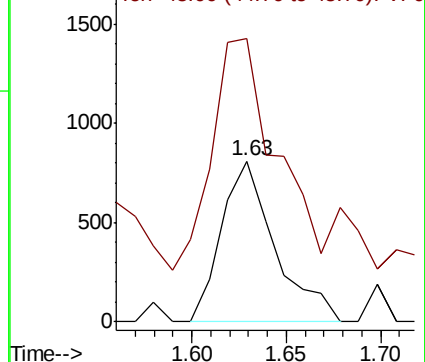
Ion Ratio Lower Upper

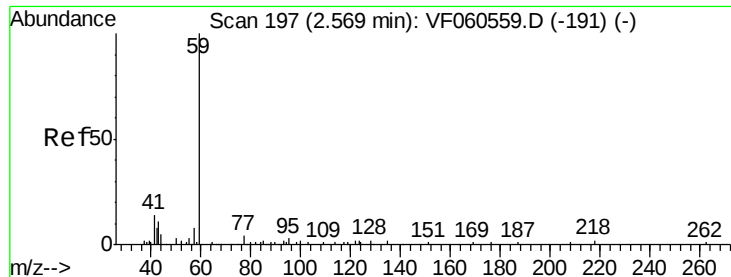
74 100

45 175.7 63.8 191.5



Abundance Ion 74.00 (73.70 to 74.70): VF0



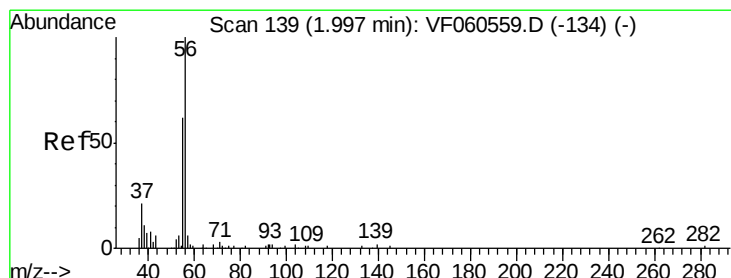
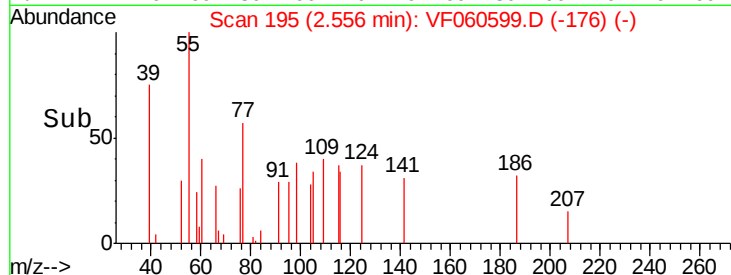
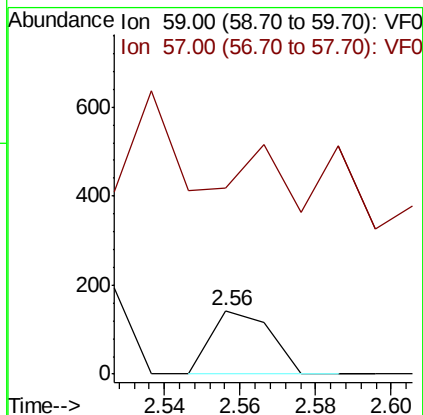
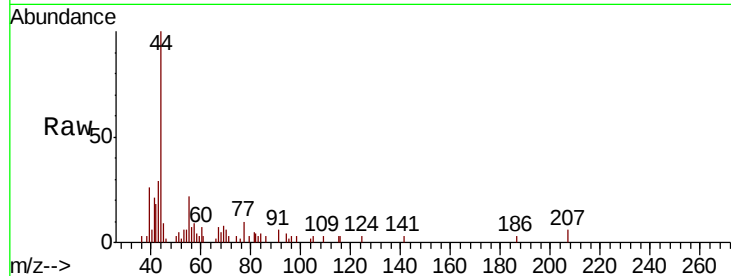


#11

Tert butyl alcohol
Concen: Below Cal
RT: 2.56 min Scan# 195
Delta R.T. -0.01 min
Lab File: VF060599.D
Acq: 6 Nov 2018 7:11

Instrument :
MSVOA_F
ClientSampled :

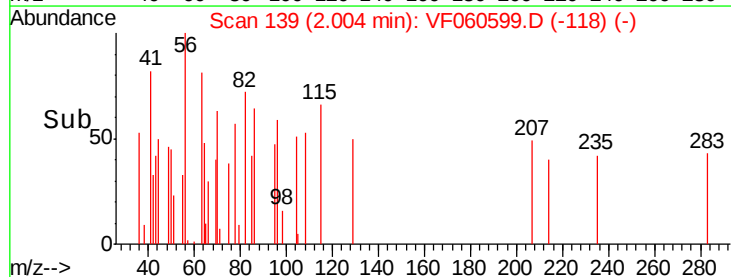
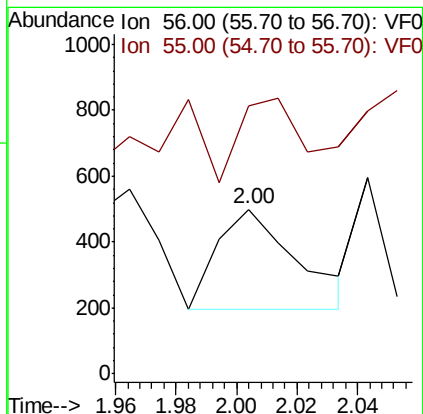
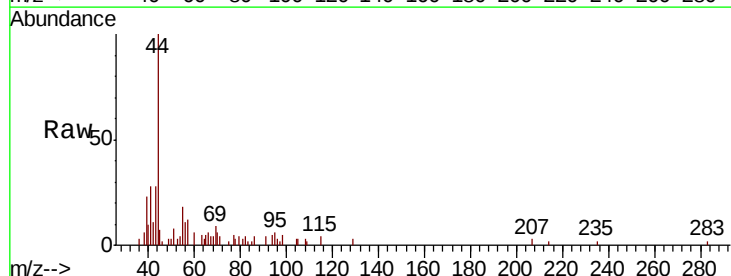
Tot Ion: 59 Resp: 153
Ion Ratio Lower Upper
59 100
57 292.3 19.0 28.4#

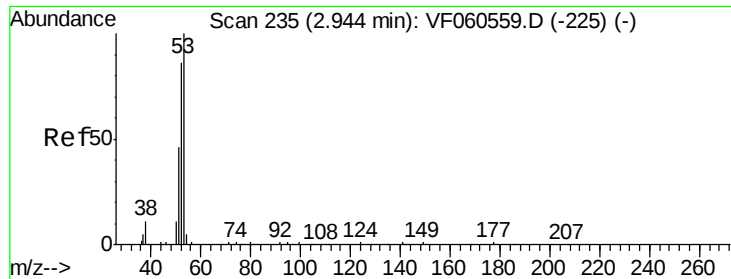


#13

Acrolein
Concen: Below Cal
RT: 2.00 min Scan# 139
Delta R.T. 0.01 min
Lab File: VF060599.D
Acq: 6 Nov 2018 7:11

Tgt Ion: 56 Resp: 554
Ion Ratio Lower Upper
56 100
55 163.0 61.8 92.6#





#15

Acrylonitrile

Concen: 2.573 ug/l

RT: 2.96 min Scan# 236

Delta R.T. 0.02 min

Lab File: VF060599.D

Acq: 6 Nov 2018 7:11

Instrument :

MSVOA_F

ClientSampled :

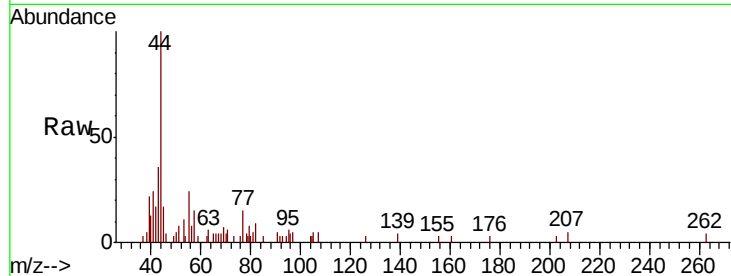
Tot Ion: 53 Resp: 733

Ion Ratio Lower Upper

53 100

52 0.0 68.5 102.7#

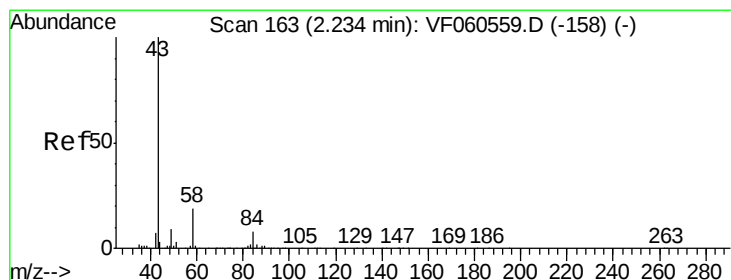
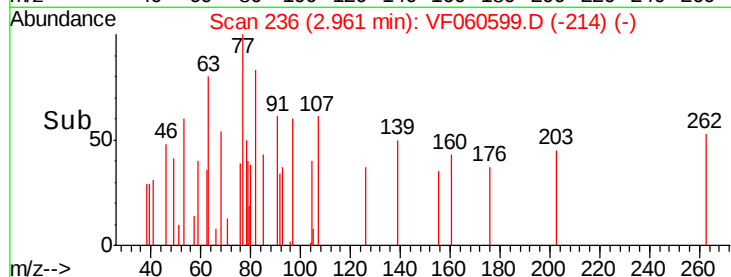
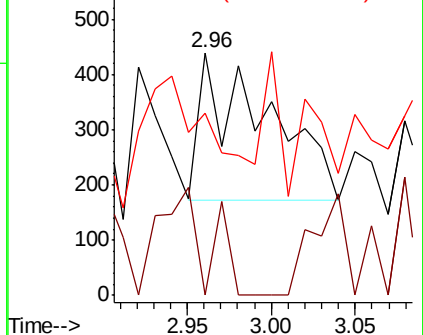
51 74.9 38.2 57.2#



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: 6.410 ug/l

RT: 2.23 min Scan# 162

Delta R.T. -0.00 min

Lab File: VF060599.D

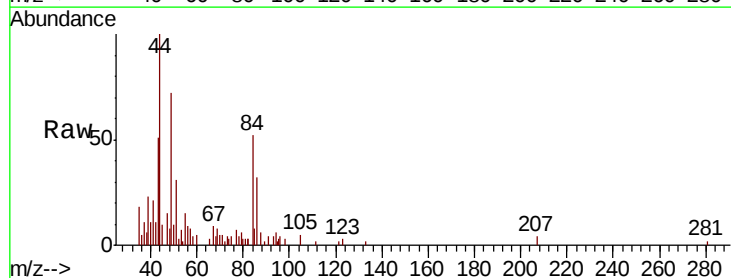
Acq: 6 Nov 2018 7:11

Tgt Ion: 43 Resp: 3611

Ion Ratio Lower Upper

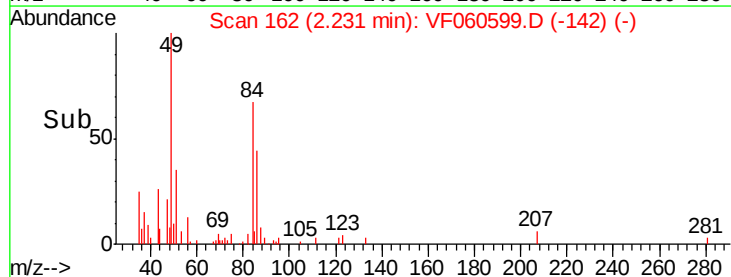
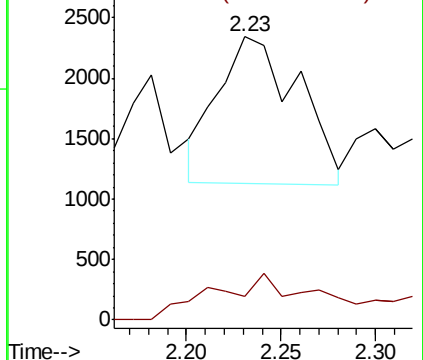
43 100

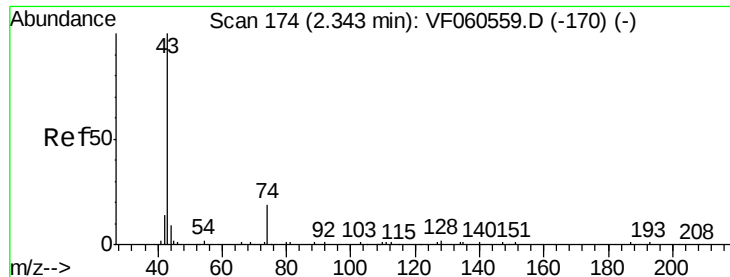
58 8.4 14.6 22.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

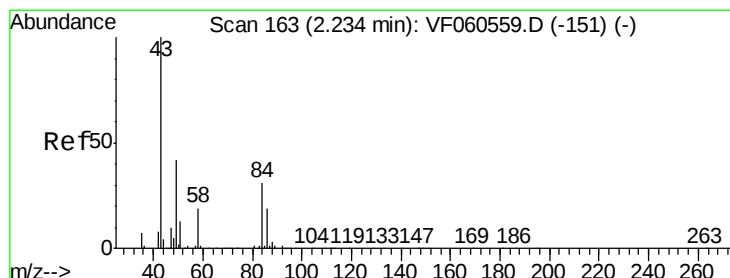
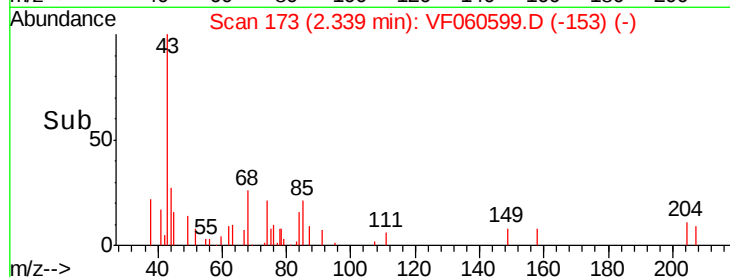
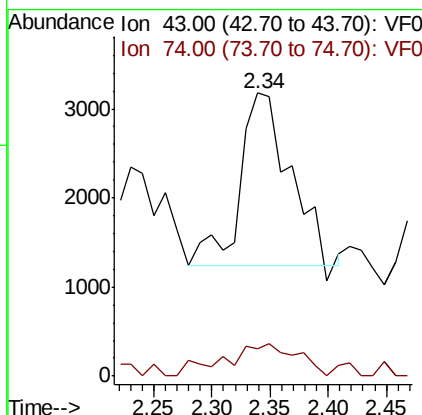
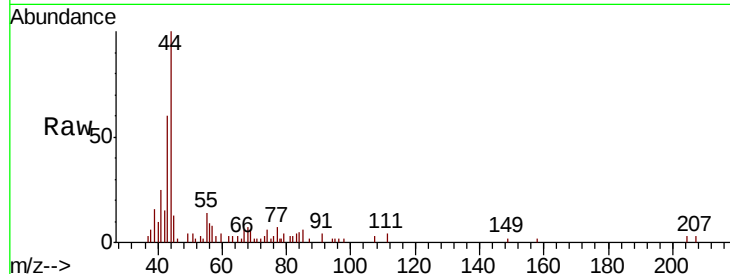




#18
Methyl Acetate
Concen: 7.019 ug/l
RT: 2.34 min Scan# 173
Delta R.T. -0.00 min
Lab File: VF060599.D
Acq: 6 Nov 2018 7:11

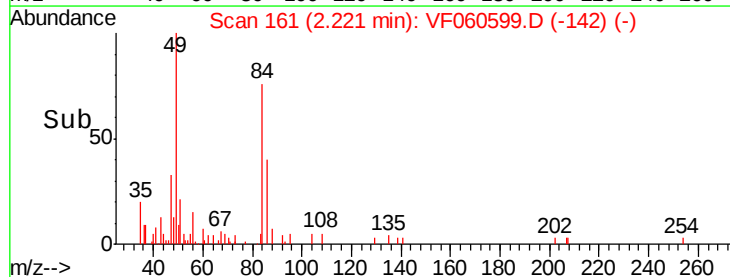
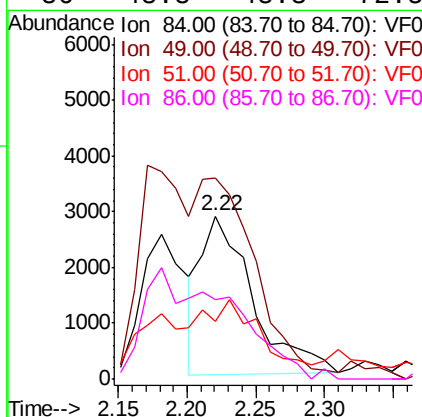
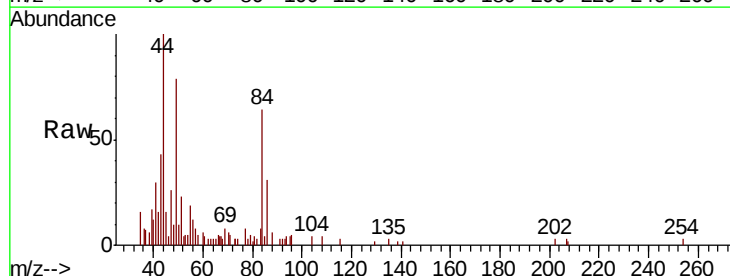
Instrument :
MSVOA_F
ClientSampleId :

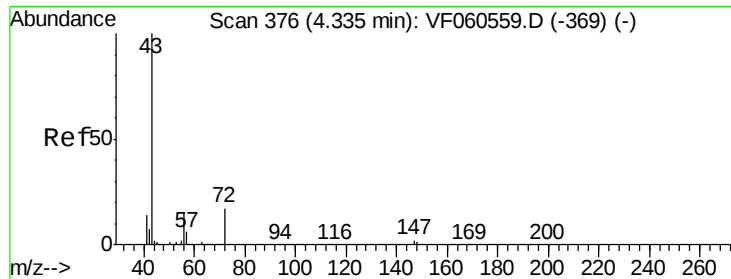
Tot Ion: 43 Resp: 5778
Ion Ratio Lower Upper
43 100
74 9.8 12.1 18.1#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.22 min Scan# 161
Delta R.T. -0.01 min
Lab File: VF060599.D
Acq: 6 Nov 2018 7:11

Tgt Ion: 84 Resp: 7464
Ion Ratio Lower Upper
84 100
49 123.3 109.9 164.9
51 35.6 35.8 53.8#
86 48.8 48.3 72.5





#25

2-Butanone

Concen: Below Cal

RT: 4.35 min Scan# 377

Delta R.T. 0.02 min

Lab File: VF060559.D

Acq: 6 Nov 2018 7:11

Instrument :

MSVOA_F

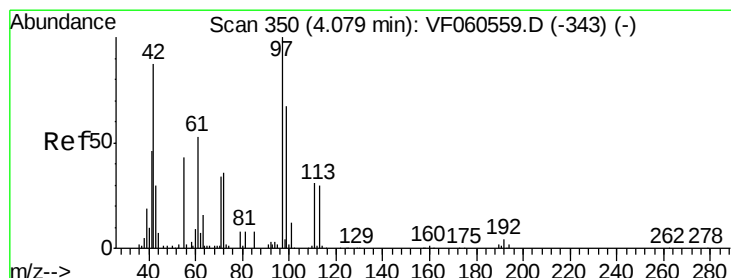
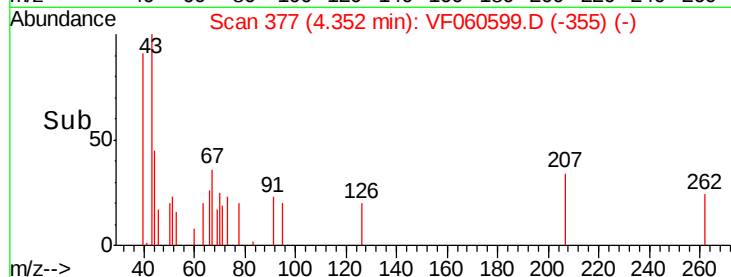
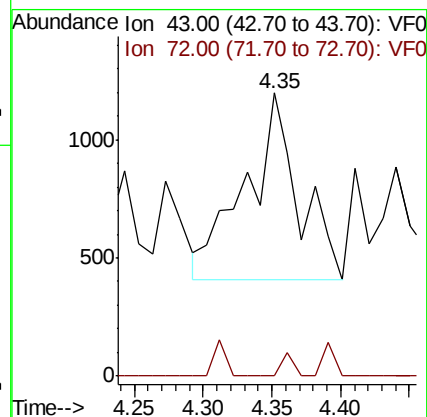
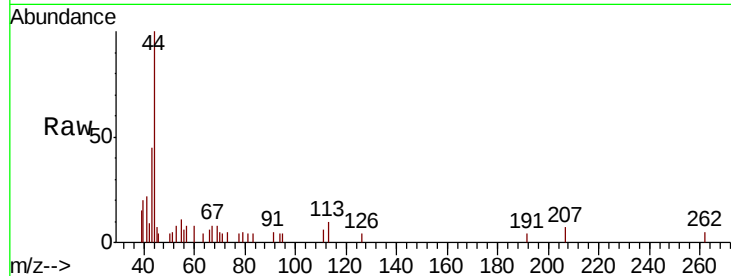
ClientSampled :

Tot Ion: 43 Resp: 2124

Ion Ratio Lower Upper

43 100

72 0.0 16.2 24.2#



#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.10 min Scan# 351

Delta R.T. 0.02 min

Lab File: VF060559.D

Acq: 6 Nov 2018 7:11

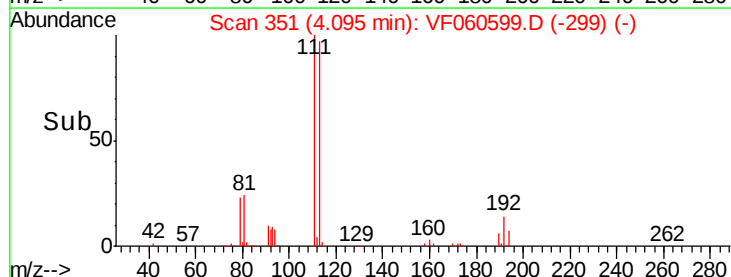
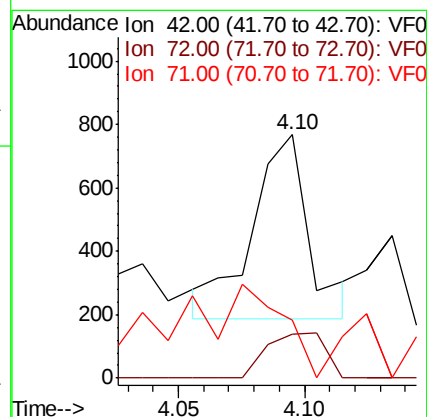
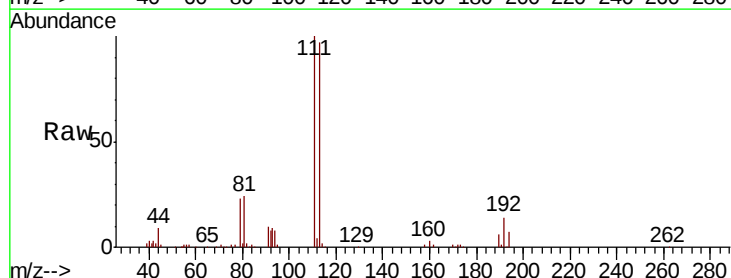
Tgt Ion: 42 Resp: 916

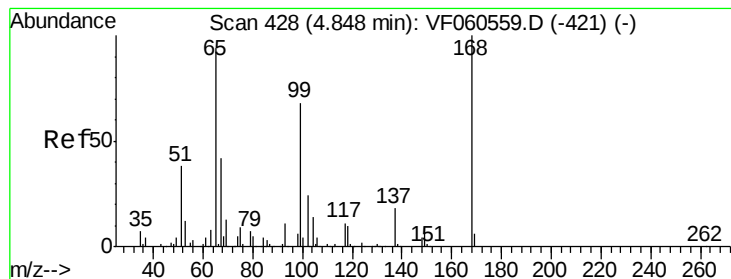
Ion Ratio Lower Upper

42 100

72 24.9 31.4 47.0#

71 0.0 31.8 47.6#





#33

1,2-Dichloroethane-d4

Concen: 53.381 ug/l

RT: 4.84 min Scan# 427

Delta R.T. -0.00 min

Lab File: VF060599.D

Acq: 6 Nov 2018 7:11

Instrument :

MSVOA_F

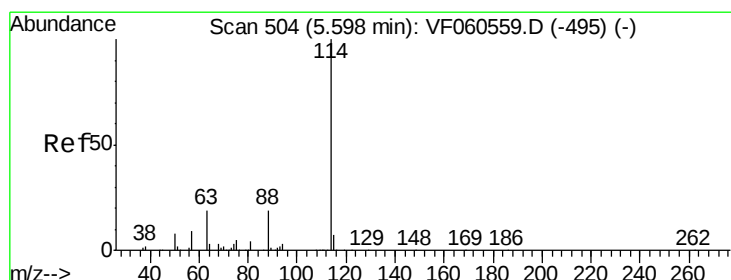
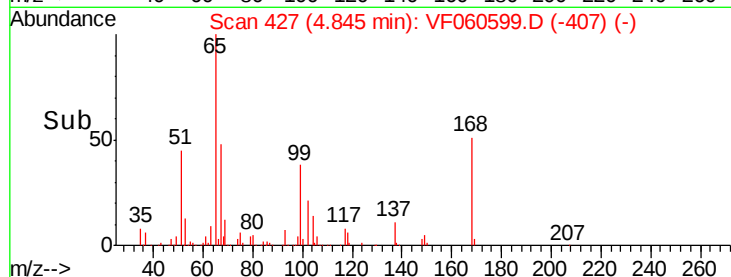
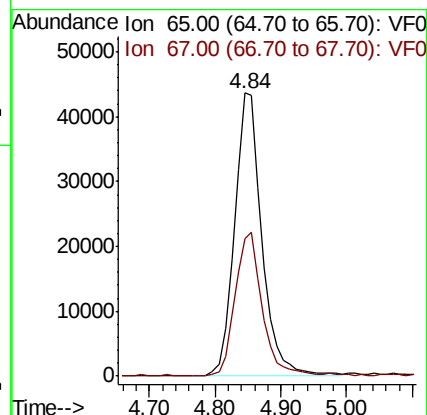
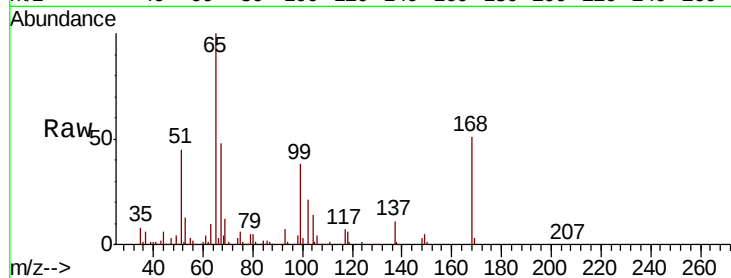
ClientSampleId :

Tot Ion: 65 Resp: 127609

Ion Ratio Lower Upper

65 100

67 48.5 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: VF060599.D

Acq: 6 Nov 2018 7:11

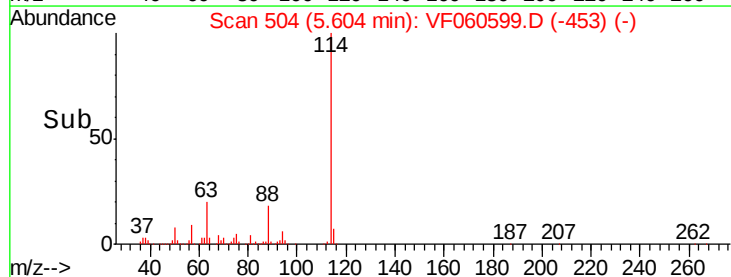
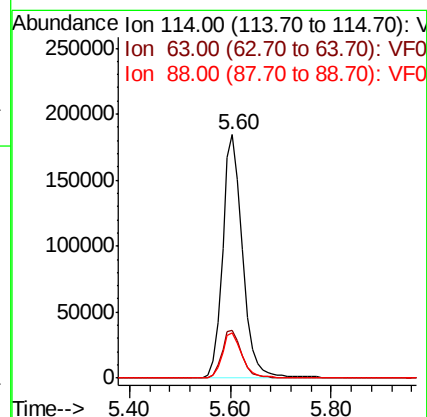
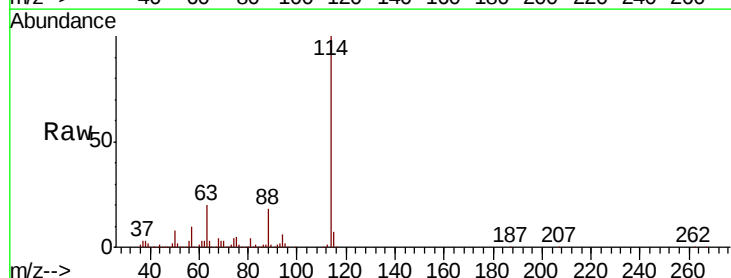
Tgt Ion: 114 Resp: 511113

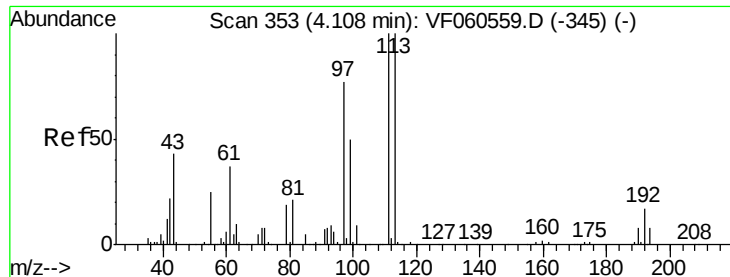
Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.0

88 18.3 0.0 38.2





#35

Dibromofluoromethane

Concen: 40.662 ug/l

RT: 4.11 min Scan# 353

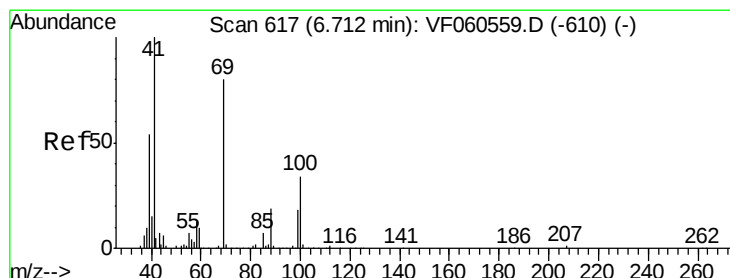
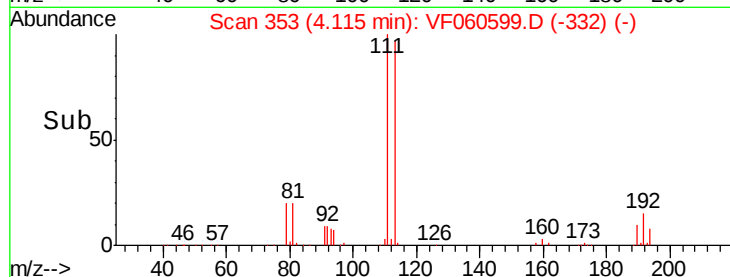
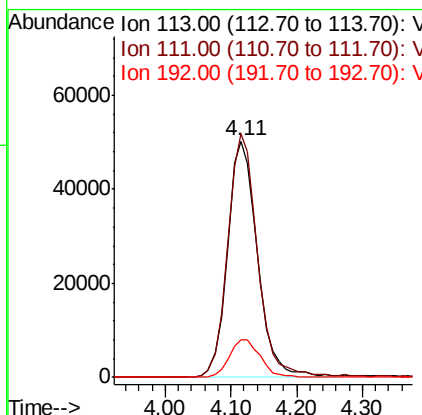
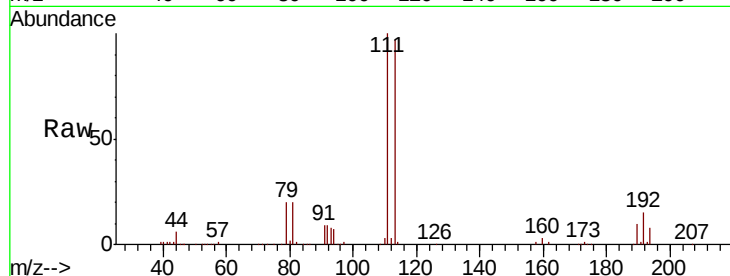
Delta R.T. 0.01 min

Lab File: VF060599.D

Acq: 6 Nov 2018 7:11

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.1	79.9	119.9
192	16.4	13.3	19.9



#49

1,4-Dioxane

Concen: 3.160 ug/l

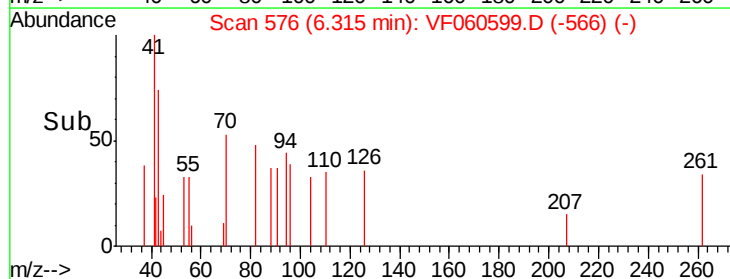
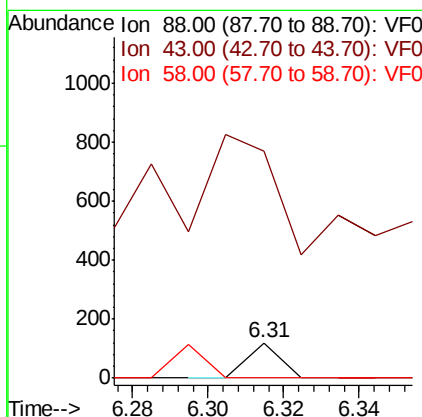
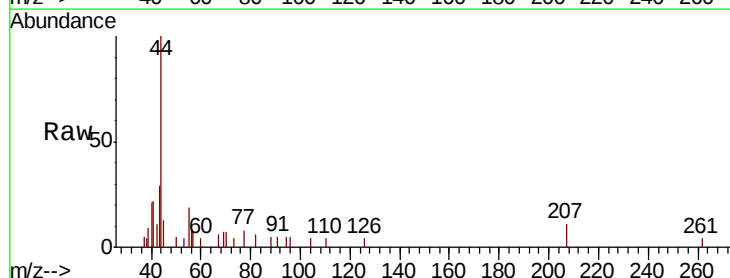
RT: 6.31 min Scan# 576

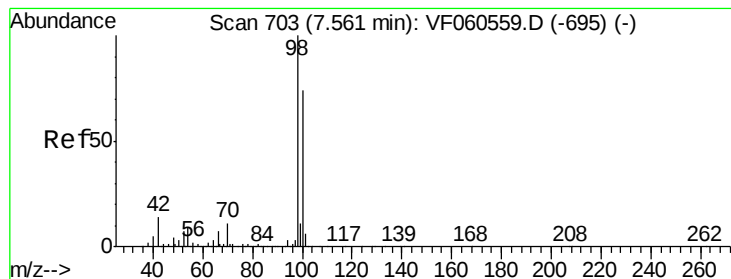
Delta R.T. -0.40 min

Lab File: VF060599.D

Acq: 6 Nov 2018 7:11

Tgt Ion	Ratio	Lower	Upper
88	100		
43	641.7	61.2	91.8#
58	0.0	56.9	85.3#





#50

Toluene-d8

Concen: 24.846 ug/l

RT: 7.57 min Scan# 703

Delta R.T. 0.01 min

Lab File: VF060599.D

Acq: 6 Nov 2018 7:11

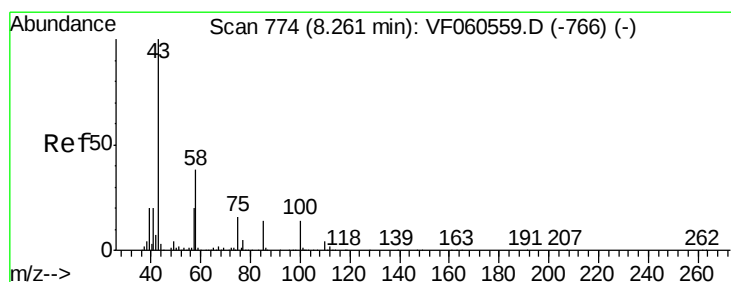
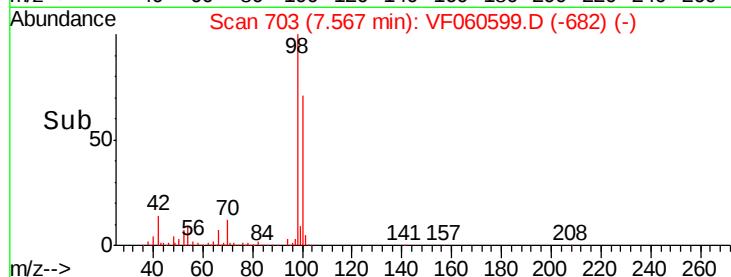
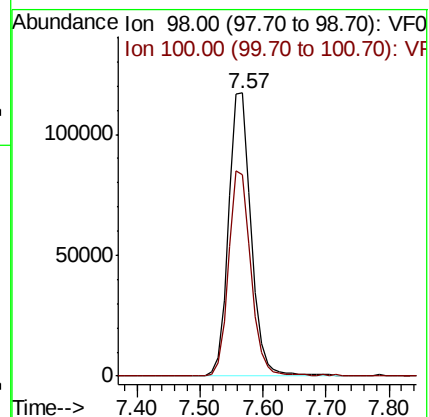
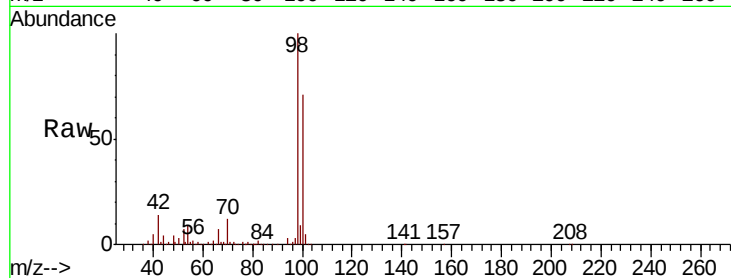
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 98 Resp: 290639

Ion Ratio Lower Upper

98 100

100 71.0 59.4 89.2



#51

4-Methyl-2-Pentanone

Concen: 1.534 ug/l

RT: 8.27 min Scan# 774

Delta R.T. 0.01 min

Lab File: VF060599.D

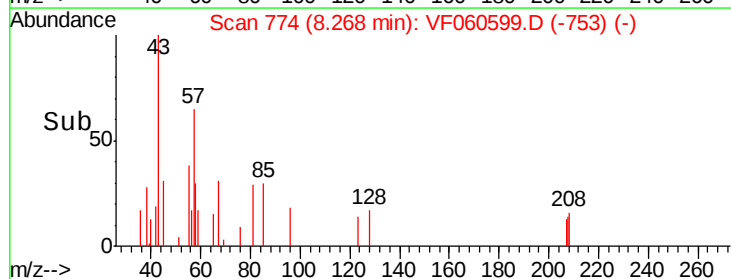
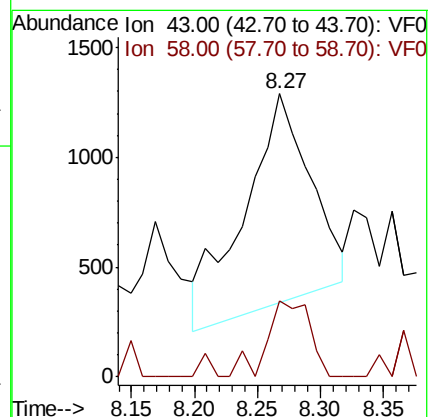
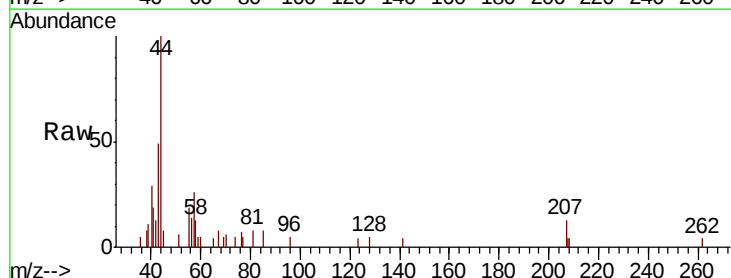
Acq: 6 Nov 2018 7:11

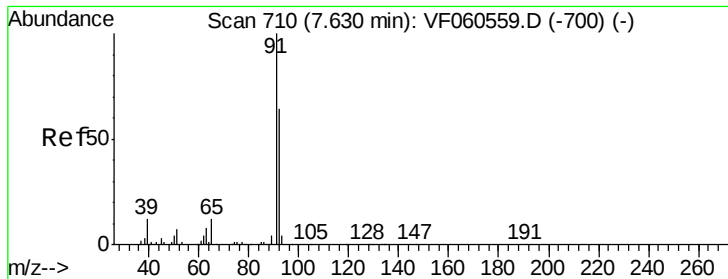
Tgt Ion: 43 Resp: 3525

Ion Ratio Lower Upper

43 100

58 26.8 30.1 45.1#





#52

Toluene

Concen: 1.214 ug/l

RT: 7.64 min Scan# 710

Delta R.T. 0.01 min

Lab File: VF060599.D

Acq: 6 Nov 2018 7:11

Instrument :

MSVOA_F

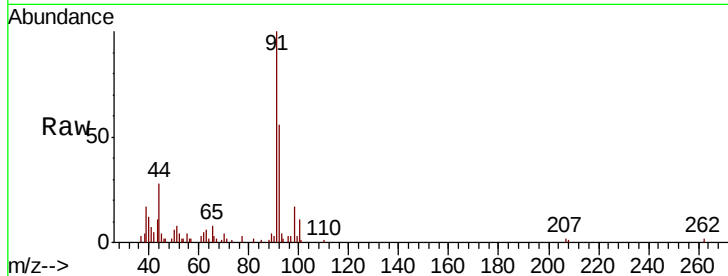
ClientSampleId :

Tot Ion: 92 Resp: 10803

Ion Ratio Lower Upper

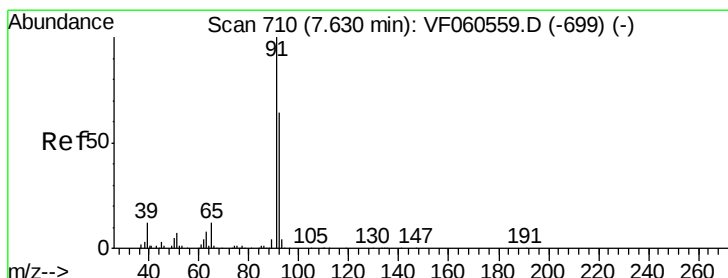
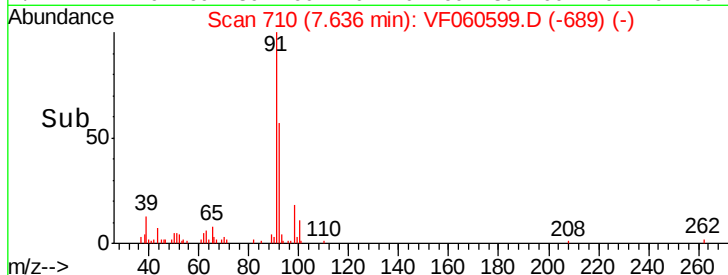
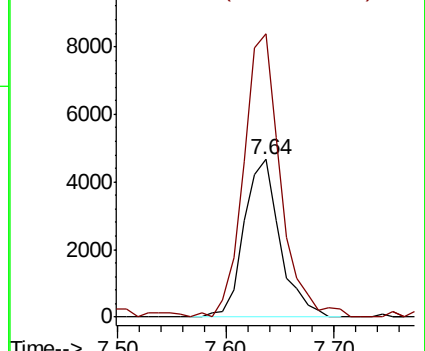
92 100

91 179.6 124.5 186.7



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: 7.64 min Scan# 710

Delta R.T. 0.01 min

Lab File: VF060599.D

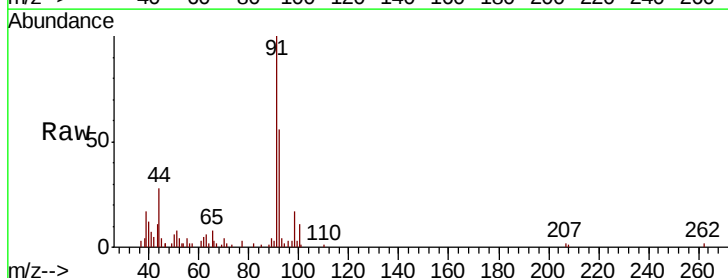
Acq: 6 Nov 2018 7:11

Tgt Ion: 63 Resp: 1870

Ion Ratio Lower Upper

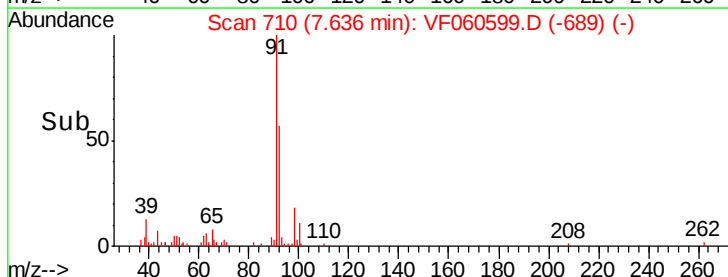
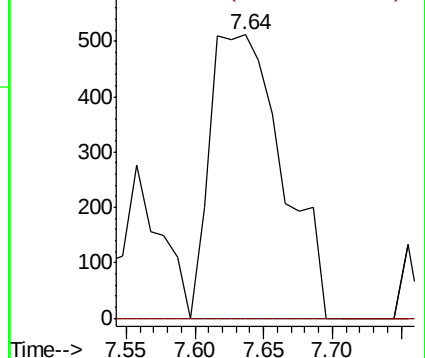
63 100

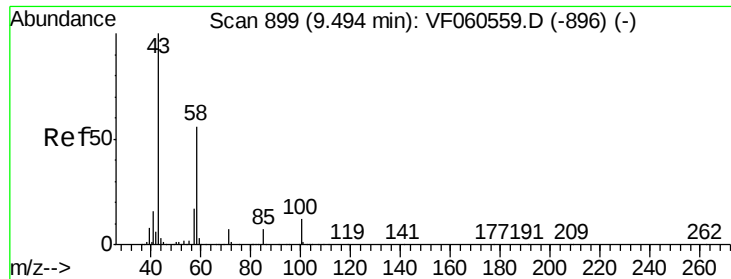
106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

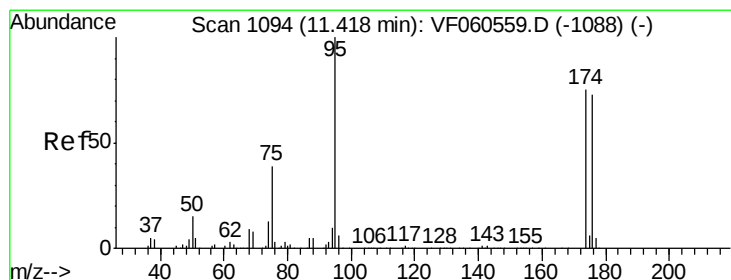
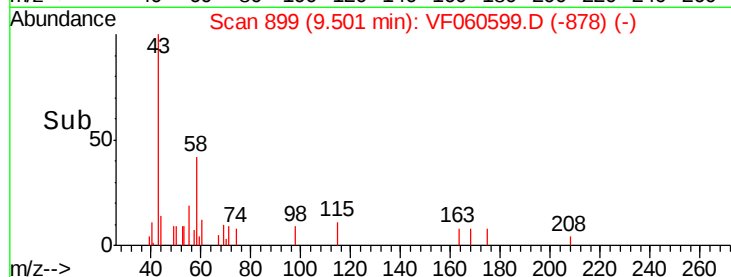
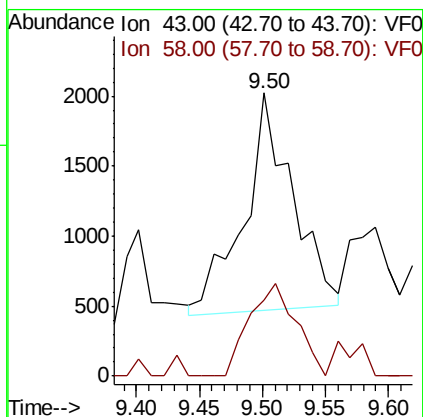
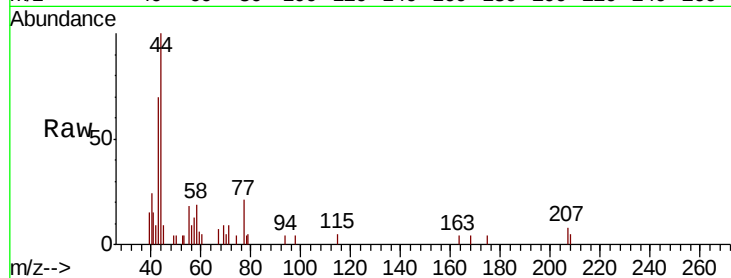




#59
2-Hexanone
Concen: Below Cal
RT: 9.50 min Scan# 899
Delta R.T. 0.01 min
Lab File: VF060599.D
Acq: 6 Nov 2018 7:11

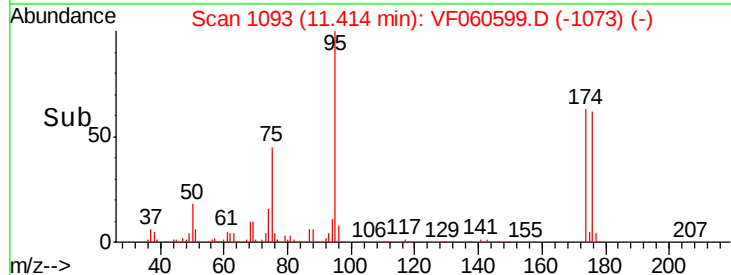
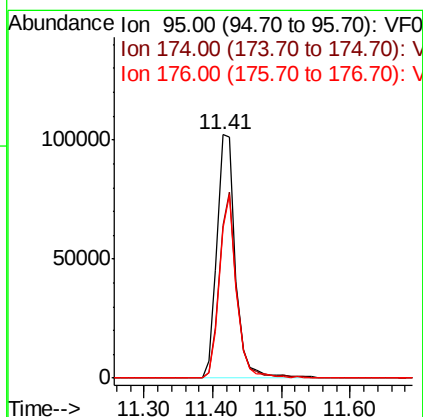
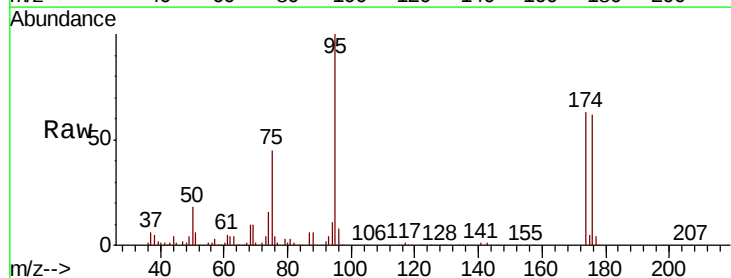
Instrument :
MSVOA_F
ClientSampleId :

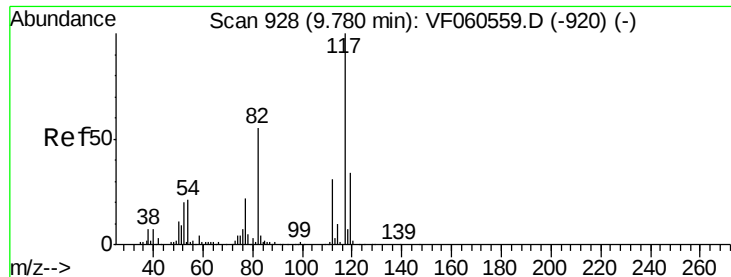
Tot Ion: 43 Resp: 4200
Ion Ratio Lower Upper
43 100
58 26.8 26.1 78.3



#62
4-Bromofluorobenzene
Concen: 37.737 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. -0.00 min
Lab File: VF060599.D
Acq: 6 Nov 2018 7:11

Tgt Ion: 95 Resp: 193092
Ion Ratio Lower Upper
95 100
174 62.8 0.0 149.0
176 61.6 0.0 145.6

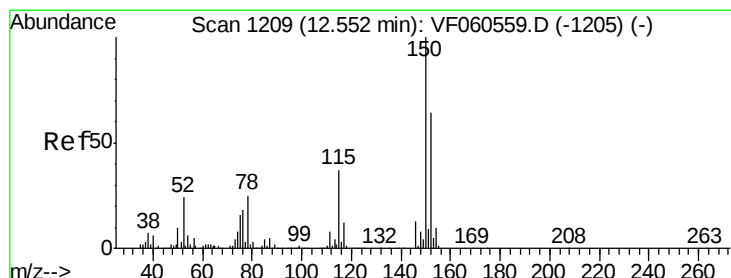
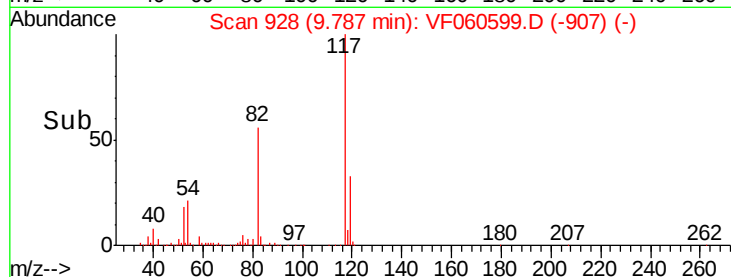
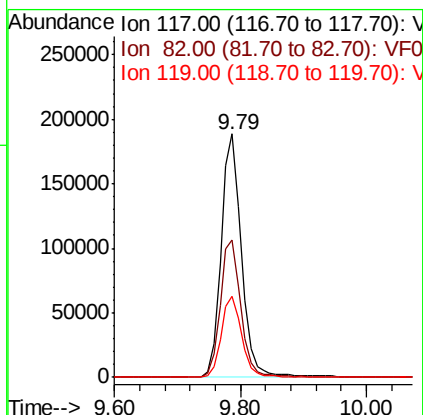
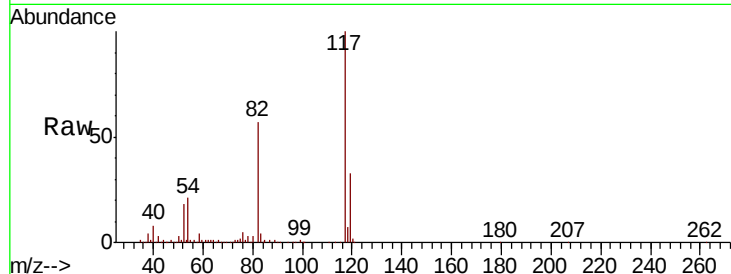




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.79 min Scan# 928
Delta R.T. 0.01 min
Lab File: VF060599.D
Acq: 6 Nov 2018 7:11

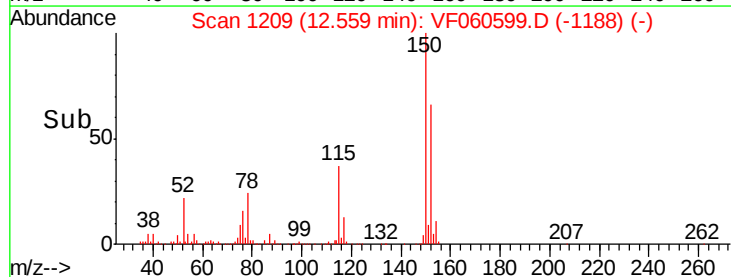
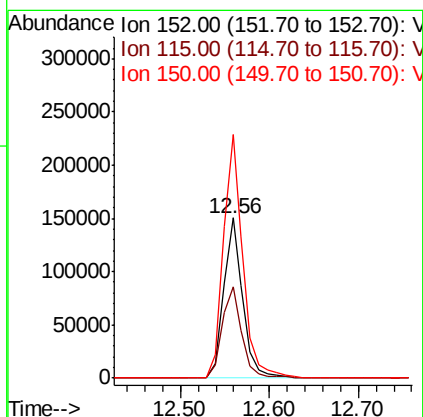
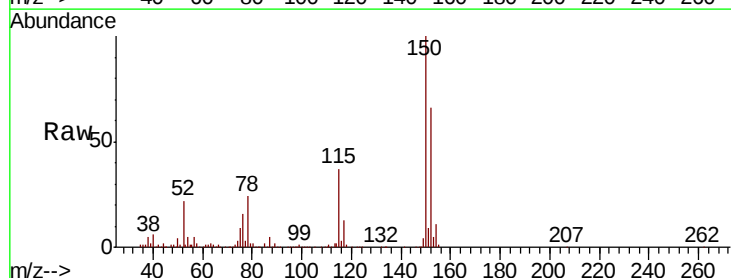
Instrument :
MSVOA_F
ClientSampleId :

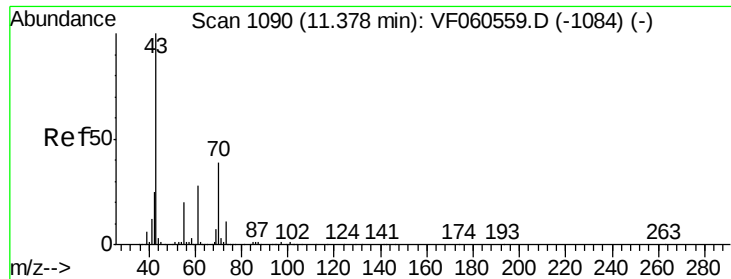
Tot Ion	Ratio	Lower	Upper
117	100		
82	56.5	43.9	65.9
119	33.1	27.4	41.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.56 min Scan# 1209
Delta R.T. 0.01 min
Lab File: VF060599.D
Acq: 6 Nov 2018 7:11

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.0	29.6	88.8
150	152.1	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: VF060599.D
 Acq: 6 Nov 2018 7:11

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion:	43	Resp:	1859
Ion	Ratio	Lower	Upper
43	100		
70	0.0	30.9	46.3#
55	42.2	16.6	24.8#
61	0.0	22.0	33.0#

