

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF110618\
 Data File : VF060622.D
 Acq On : 6 Nov 2018 19:50
 Operator : VA/AP
 Sample : J5819-03
 Misc : 3.43q/5mL/MSVOA-F/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Nov 07 11:48:13 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	270511	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.62	114	472267	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.80	117	404064	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.56	152	168690	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.87	65	153199	56.05	ug/l	0.02
Spiked Amount			Recovery	=	112.10%	
35) Dibromofluoromethane	4.13	113	195725	53.64	ug/l	0.02
Spiked Amount			Recovery	=	107.28%	
50) Toluene-d8	7.57	98	490517	45.38	ug/l	0.01
Spiked Amount			Recovery	=	90.76%	
62) 4-Bromofluorobenzene	11.43	95	201727	42.67	ug/l	0.01
Spiked Amount			Recovery	=	85.34%	

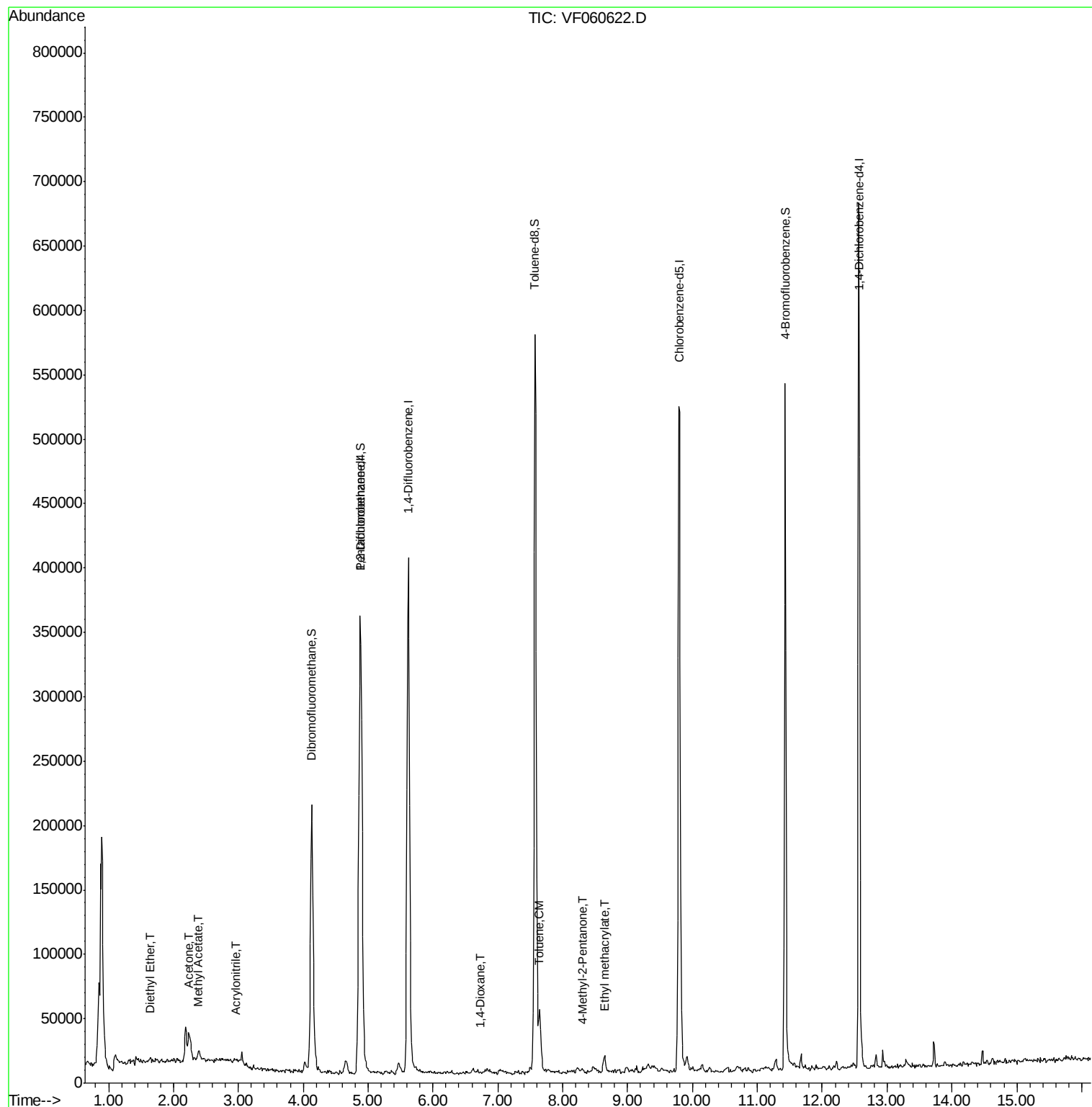
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.97	85	349	Below Cal	#	41
6) Chloroethane	1.39	64	67	Below Cal	#	1
8) Diethyl Ether	1.64	74	1426	1.884	ug/l #	38
11) Tert butyl alcohol	2.57	59	423	Below Cal	#	1
13) Acrolein	1.98	56	579	Below Cal	#	43
15) Acrylonitrile	2.96	53	442	1.357	ug/l #	77
16) Acetone	2.24	43	9025	14.013	ug/l #	89
18) Methyl Acetate	2.38	43	3211	3.658	ug/l #	64
25) 2-Butanone	4.36	43	784	Below Cal		93
29) Tetrahydrofuran	4.08	42	418	Below Cal	#	64
49) 1,4-Dioxane	6.73	88	92	4.432	ug/l #	1
51) 4-Methyl-2-Pentanone	8.30	43	3866	1.821	ug/l #	62
52) Toluene	7.64	92	25852	3.144	ug/l	97
56) Ethyl methacrylate	8.65	69	6591	2.141	ug/l #	89
58) 2-Chloroethyl Vinyl ether	7.65	63	3682	Below Cal		100
59) 2-Hexanone	9.51	43	2447	Below Cal		90
74) N-amyl acetate	11.39	43	1314	Below Cal	#	76
89) n-Butylbenzene	12.87	91	1197	Below Cal	#	55

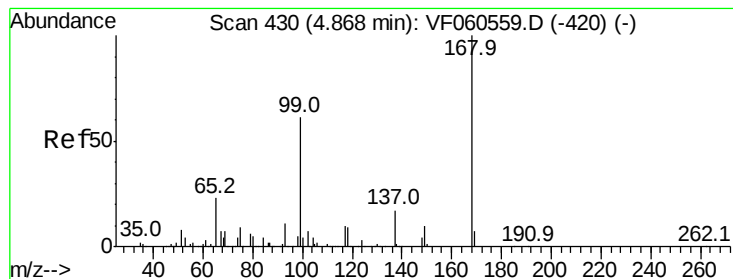
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 4.89 min Scan# 432

Delta R.T. 0.02 min

Lab File: VF060622.D

Acq: 6 Nov 2018 19:50

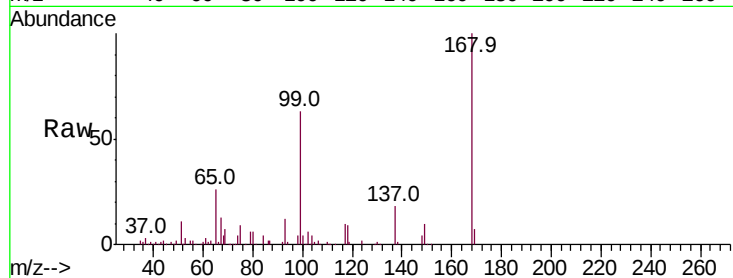
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 270511

Ion Ratio Lower Upper

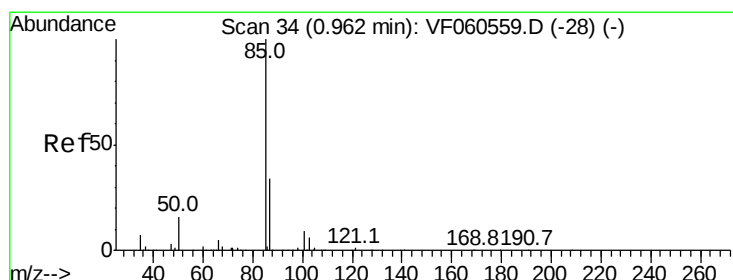
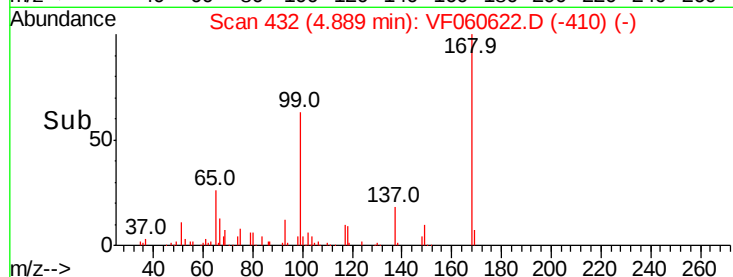
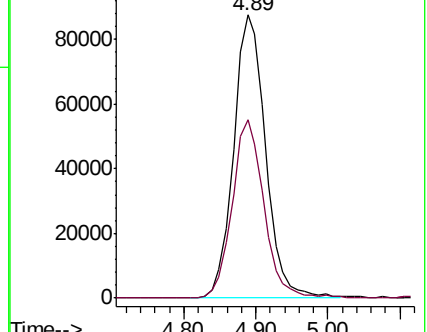
168 100

99 62.9 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# 35

Delta R.T. 0.01 min

Lab File: VF060622.D

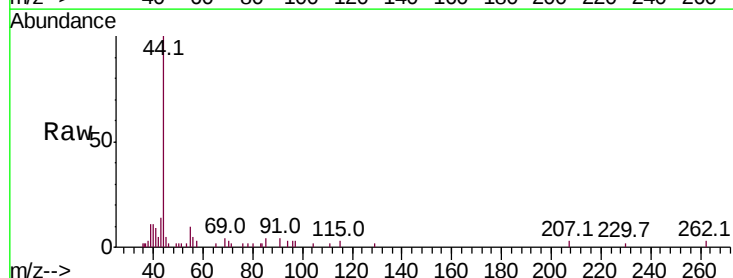
Acq: 6 Nov 2018 19:50

Tgt Ion: 85 Resp: 349

Ion Ratio Lower Upper

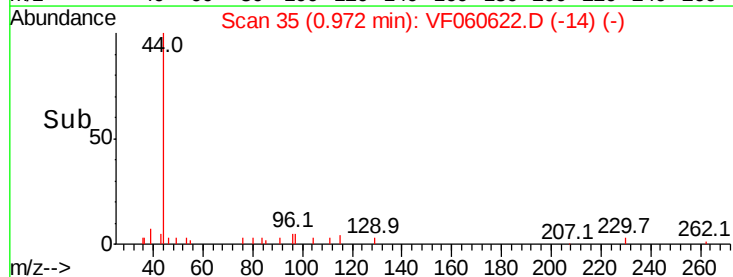
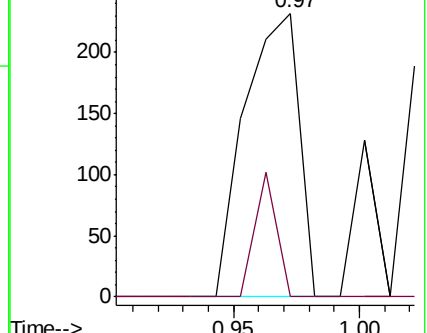
85 100

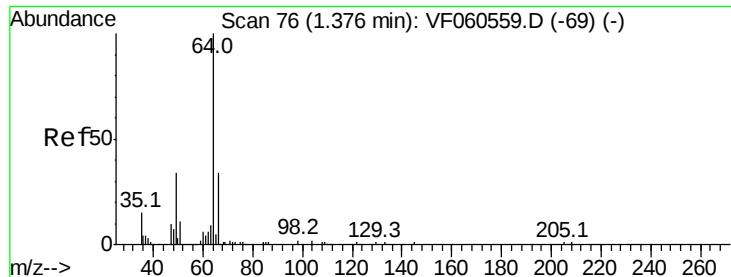
87 0.0 16.9 50.7#



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. 0.01 min

Lab File: VF060622.D

Acq: 6 Nov 2018 19:50

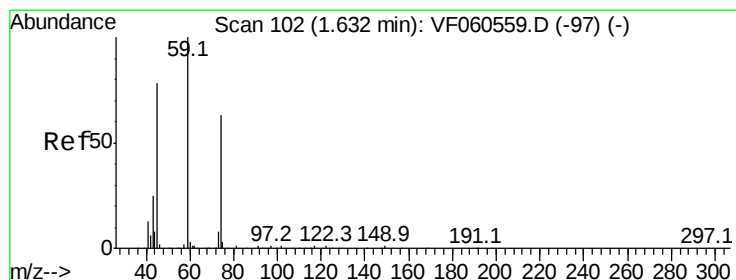
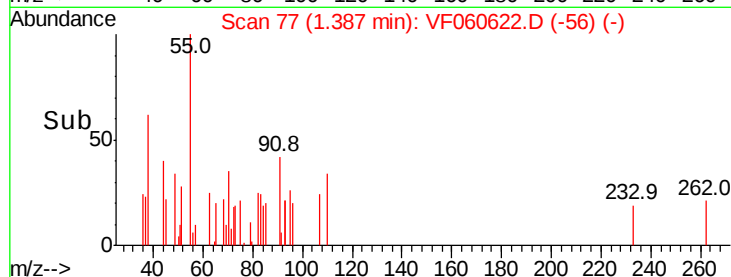
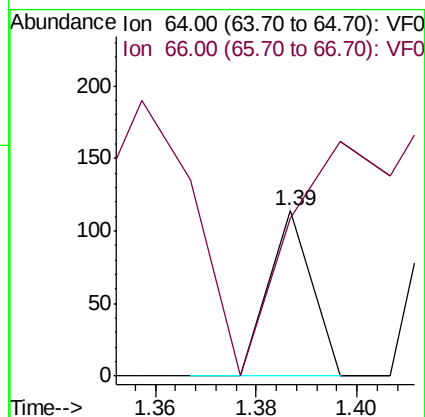
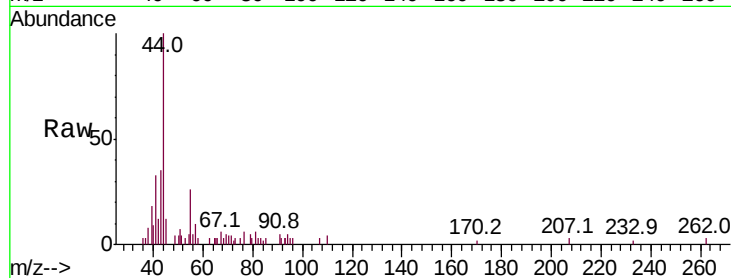
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 64 Resp: 67

Ion Ratio Lower Upper

64 100

66 95.6 27.8 41.8#



#8

Diethyl Ether

Concen: 1.884 ug/l

RT: 1.64 min Scan# 103

Delta R.T. 0.01 min

Lab File: VF060622.D

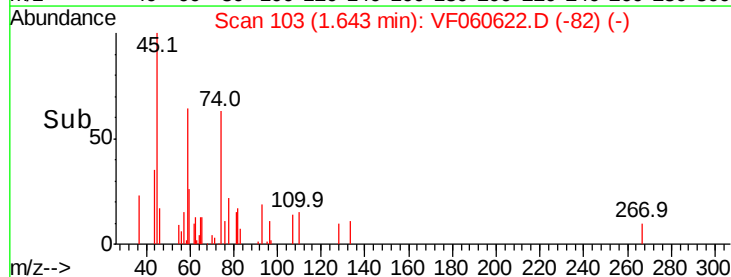
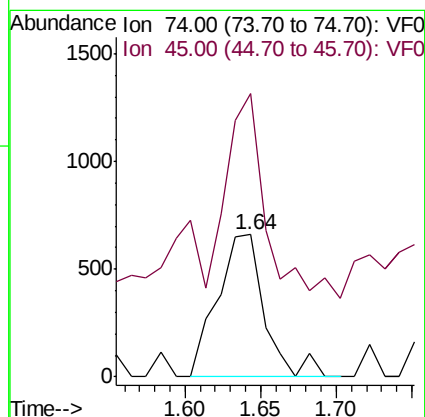
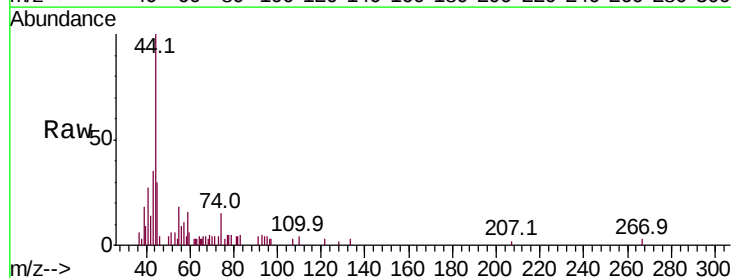
Acq: 6 Nov 2018 19:50

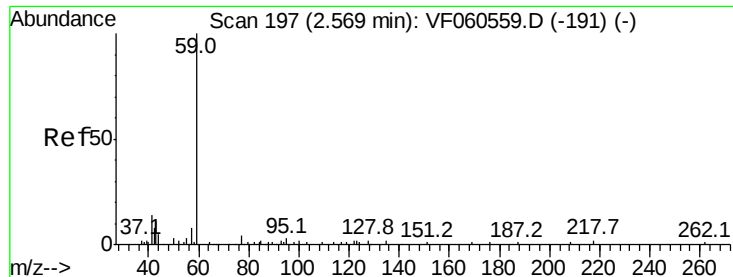
Tgt Ion: 74 Resp: 1426

Ion Ratio Lower Upper

74 100

45 199.2 63.8 191.5#



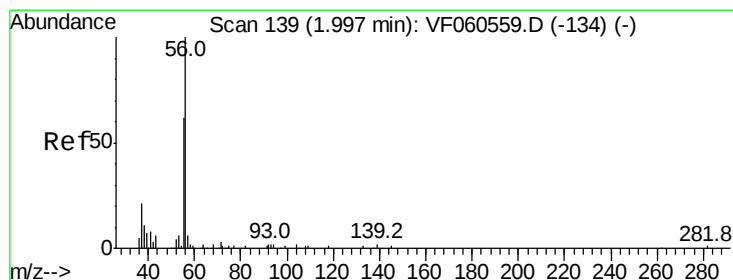
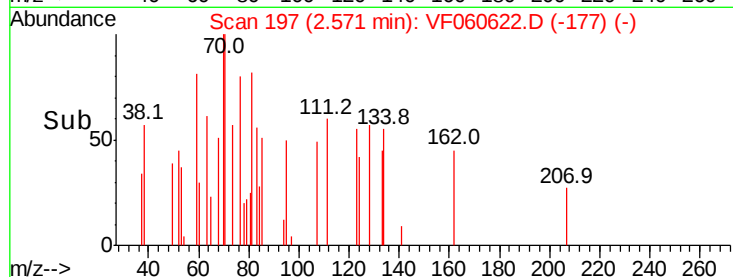
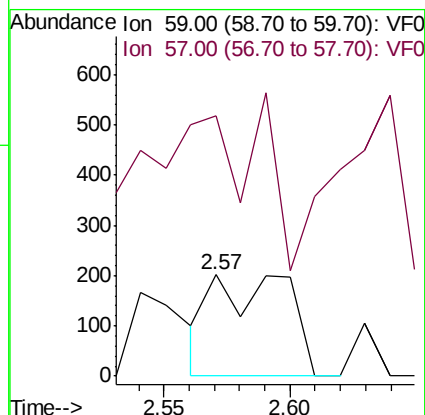
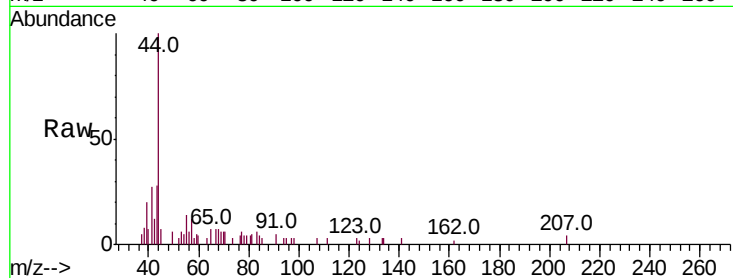


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 2.57 min Scan# 197
 Delta R.T. 0.00 min
 Lab File: VF060622.D
 Acq: 6 Nov 2018 19:50

Instrument :
 MSVOA_F
 ClientSampled :

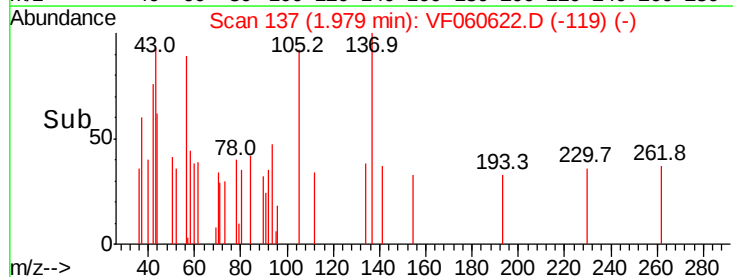
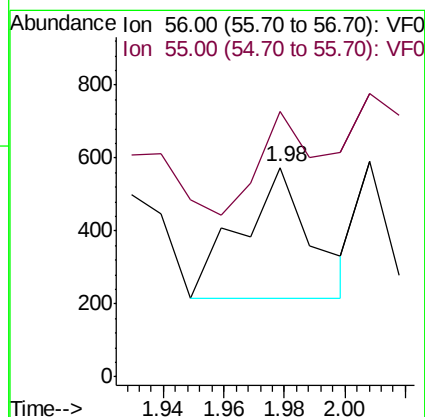
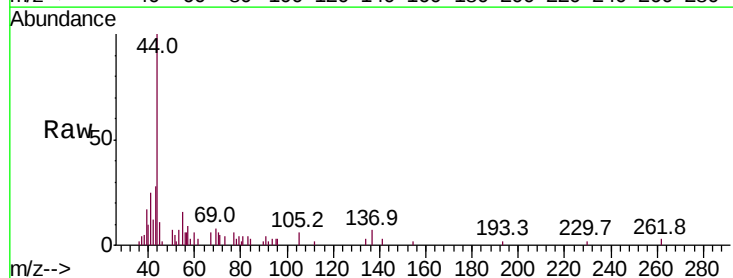
Tot Ion: 59 Resp: 423
 Ion Ratio Lower Upper
 59 100
 57 257.2 19.0 28.4#

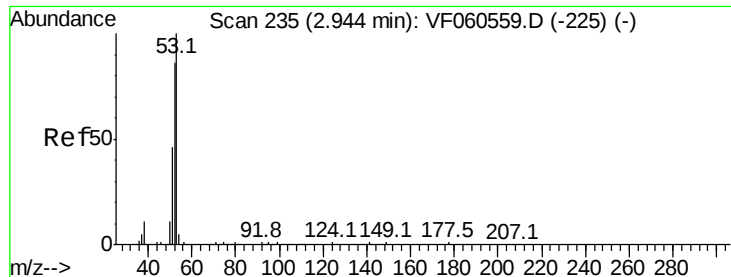


#13

Acrolein
 Concen: Below Cal
 RT: 1.98 min Scan# 137
 Delta R.T. -0.02 min
 Lab File: VF060622.D
 Acq: 6 Nov 2018 19:50

Tgt Ion: 56 Resp: 579
 Ion Ratio Lower Upper
 56 100
 55 126.8 61.8 92.6#





#15

Acrylonitrile

Concen: 1.357 ug/l

RT: 2.96 min Scan# 236

Delta R.T. 0.01 min

Lab File: VF060622.D

Acq: 6 Nov 2018 19:50

Instrument :
MSVOA_F
ClientSampleId :

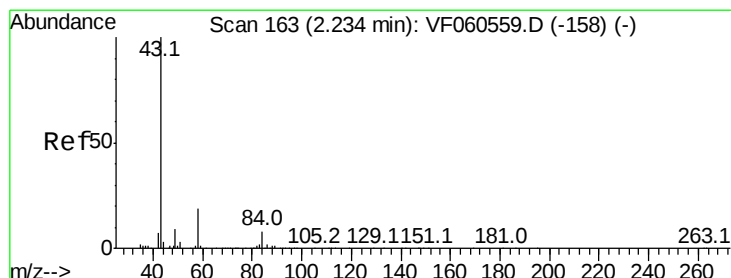
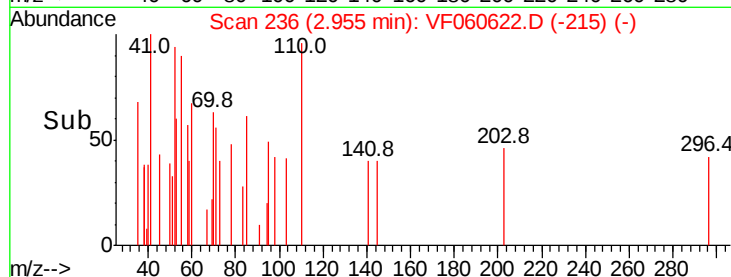
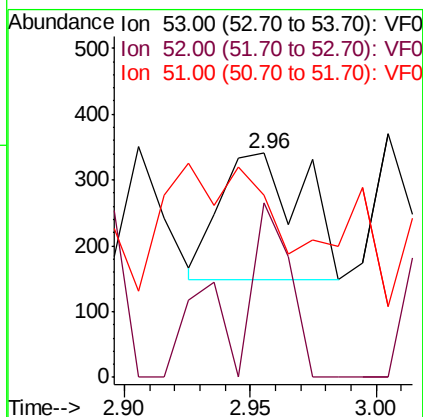
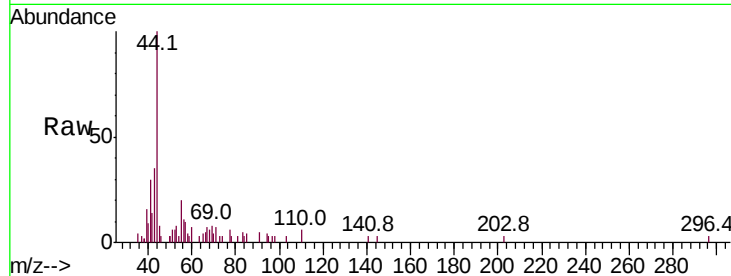
Tot Ion: 53 Resp: 442

Ion Ratio Lower Upper

53 100

52 77.7 68.5 102.7

51 80.9 38.2 57.2#



#16

Acetone

Concen: 14.013 ug/l

RT: 2.24 min Scan# 164

Delta R.T. 0.01 min

Lab File: VF060622.D

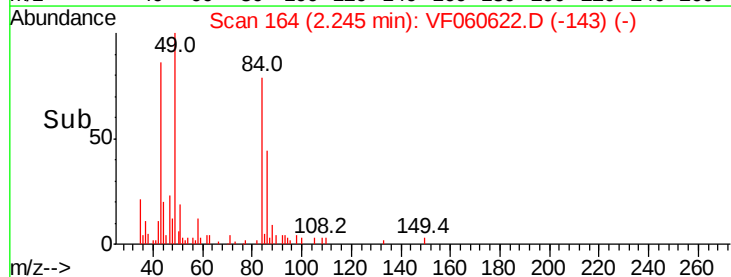
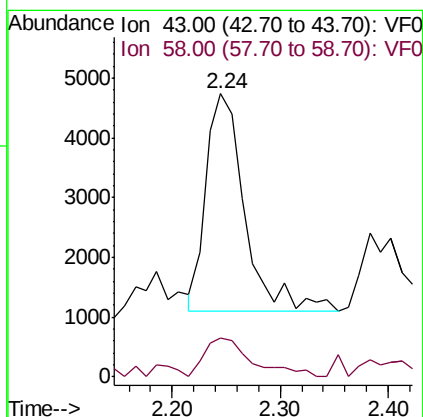
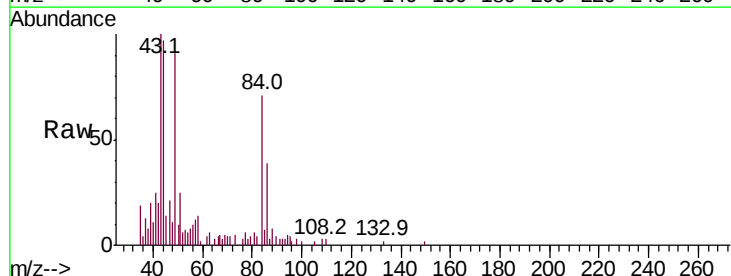
Acq: 6 Nov 2018 19:50

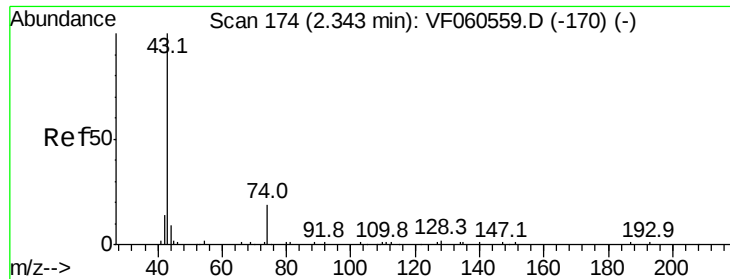
Tgt Ion: 43 Resp: 9025

Ion Ratio Lower Upper

43 100

58 13.6 14.6 22.0#

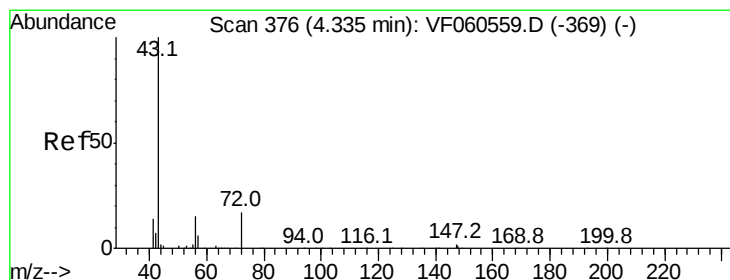
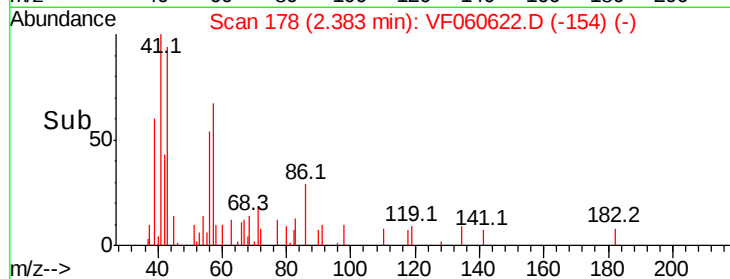
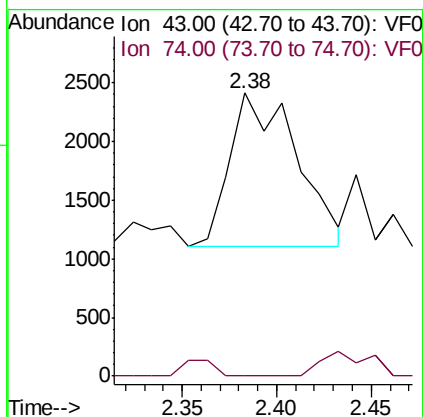
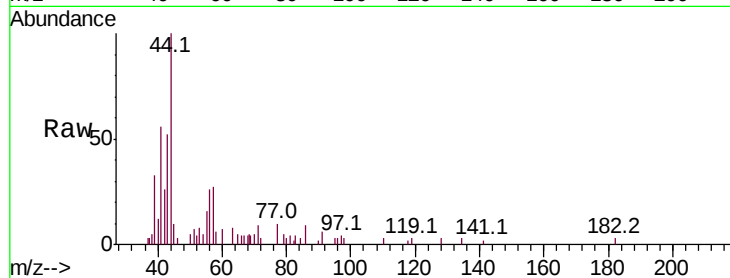




#18
Methyl Acetate
Concen: 3.658 ug/l
RT: 2.38 min Scan# 178
Delta R.T. 0.04 min
Lab File: VF060622.D
Acq: 6 Nov 2018 19:50

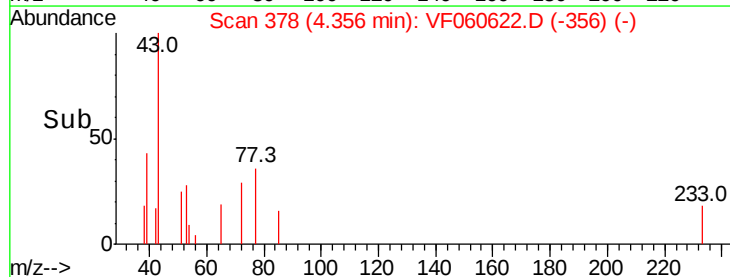
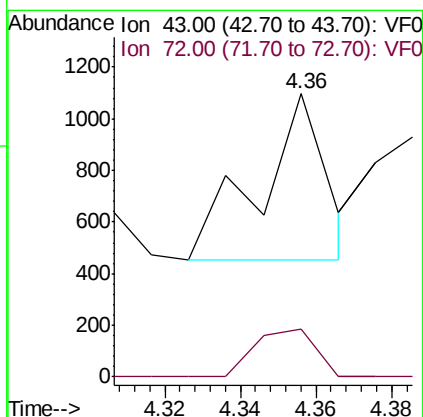
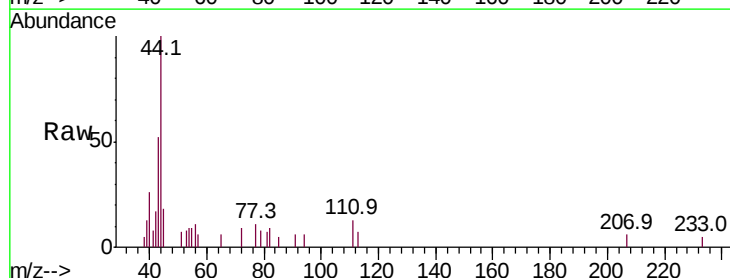
Instrument :
MSVOA_F
ClientSampleId :

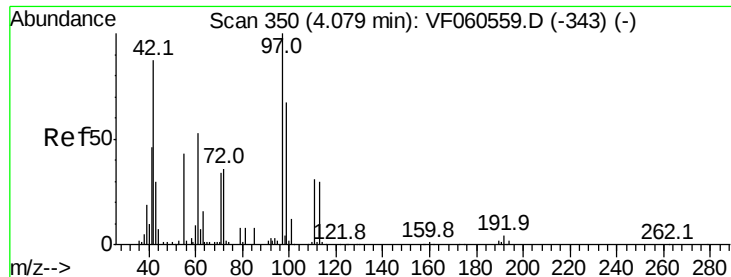
Tot Ion: 43 Resp: 3211
Ion Ratio Lower Upper
43 100
74 0.0 12.1 18.1#



#25
2-Butanone
Concen: Below Cal
RT: 4.36 min Scan# 378
Delta R.T. 0.02 min
Lab File: VF060622.D
Acq: 6 Nov 2018 19:50

Tgt Ion: 43 Resp: 784
Ion Ratio Lower Upper
43 100
72 16.8 16.2 24.2

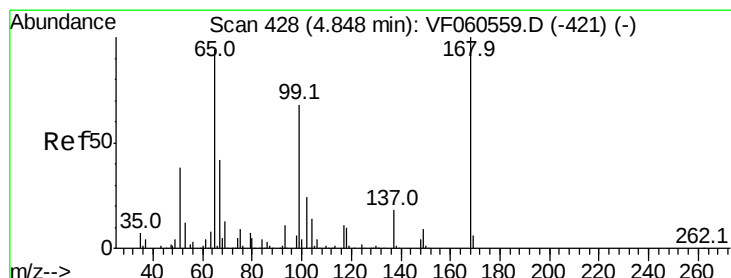
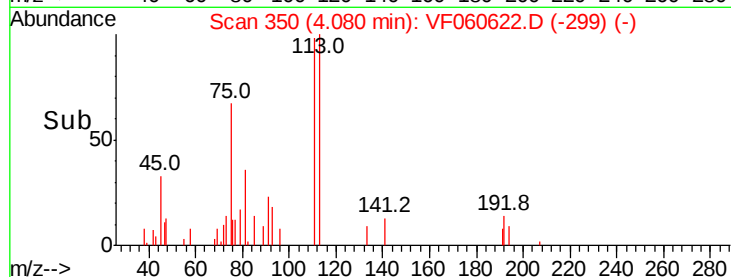
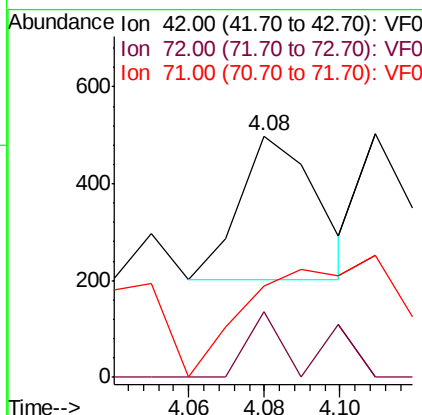
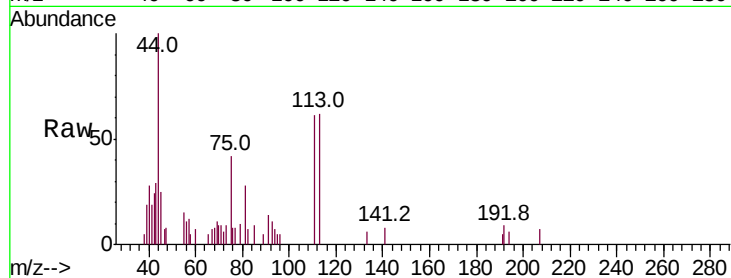




#29
Tetrahydrofuran
Concen: Below Cal
RT: 4.08 min Scan# 350
Delta R.T. 0.00 min
Lab File: VF060622.D
Acq: 6 Nov 2018 19:50

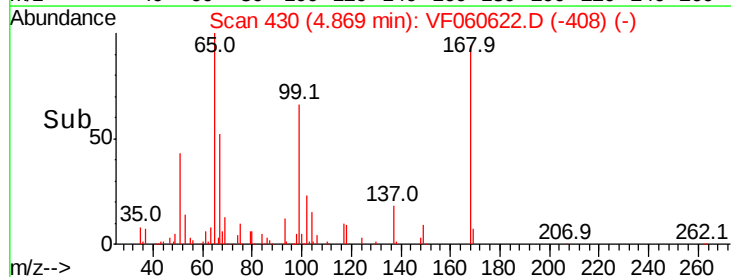
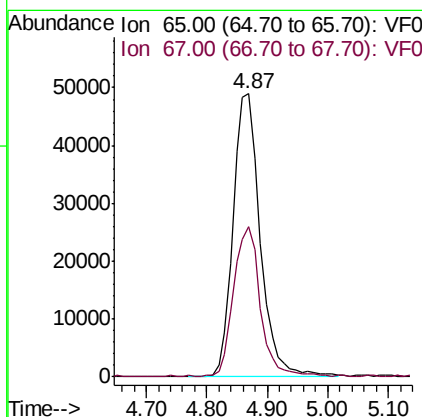
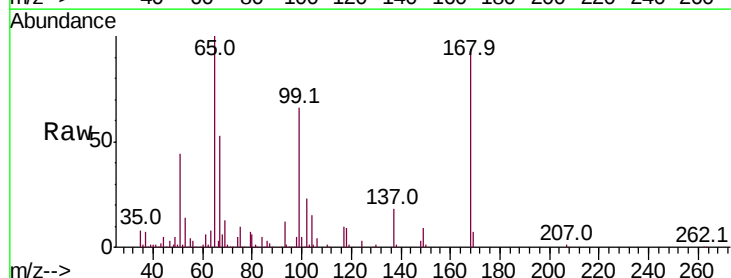
Instrument :
MSVOA_F
ClientSampled :

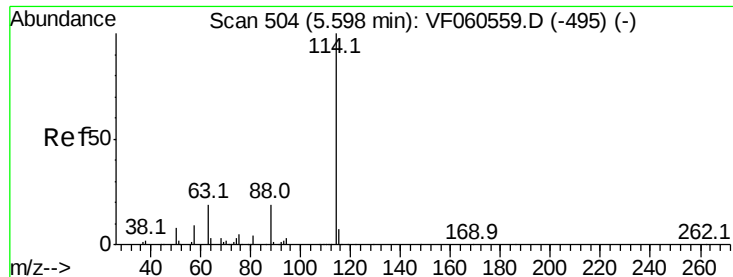
Tot Ion: 42 Resp: 418
Ion Ratio Lower Upper
42 100
72 34.7 31.4 47.0
71 0.0 31.8 47.6#



#33
1,2-Dichloroethane-d4
Concen: 56.052 ug/l
RT: 4.87 min Scan# 430
Delta R.T. 0.02 min
Lab File: VF060622.D
Acq: 6 Nov 2018 19:50

Tgt Ion: 65 Resp: 153199
Ion Ratio Lower Upper
65 100
67 53.0 0.0 101.8

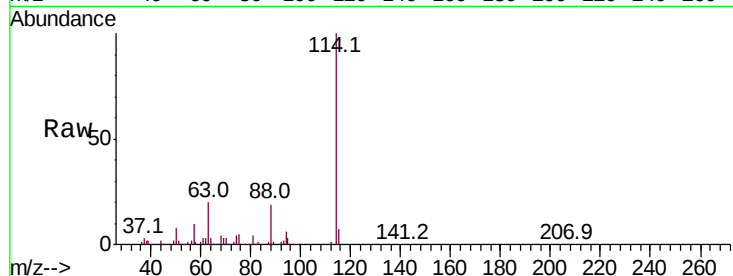




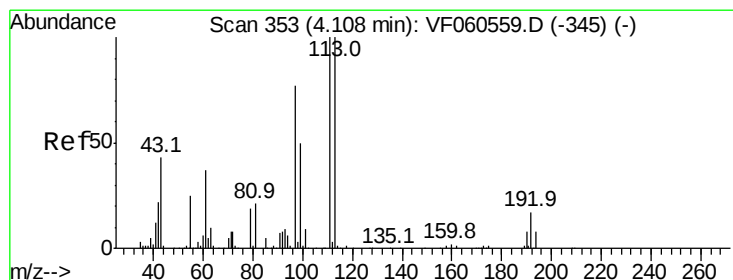
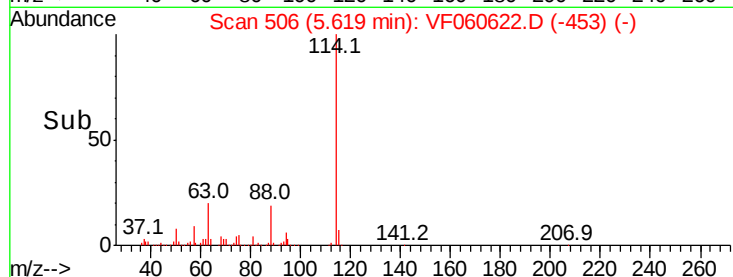
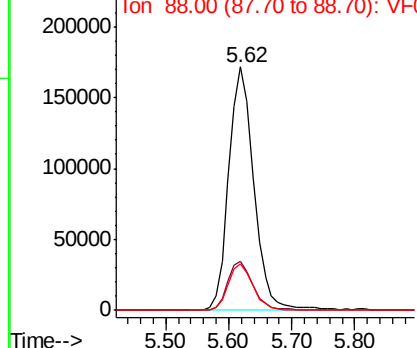
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.62 min Scan# 506
Delta R.T. 0.02 min
Lab File: VF060622.D
Acq: 6 Nov 2018 19:50

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:114 Resp: 472267
Ion Ratio Lower Upper
114 100
63 20.0 0.0 39.0
88 19.2 0.0 38.2

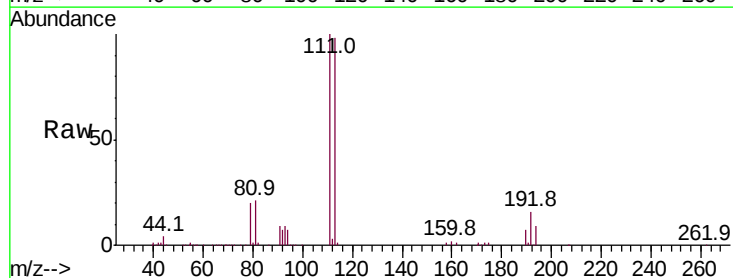


Abundance Ion 114.00 (113.70 to 114.70): V
Ion 63.00 (62.70 to 63.70): VF0
Ion 88.00 (87.70 to 88.70): VF0

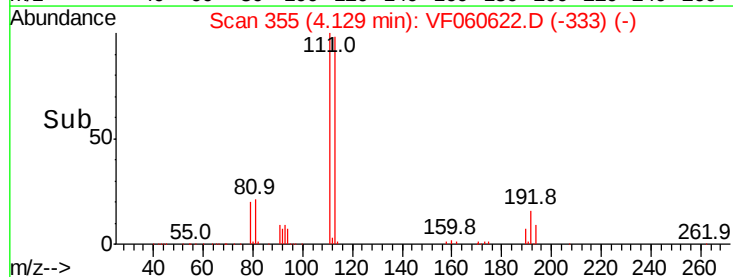
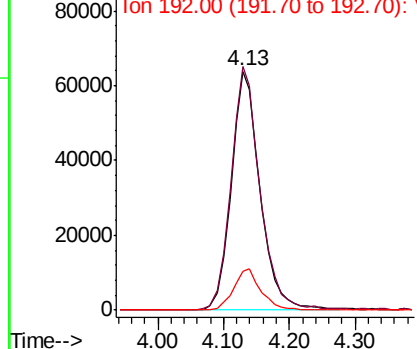


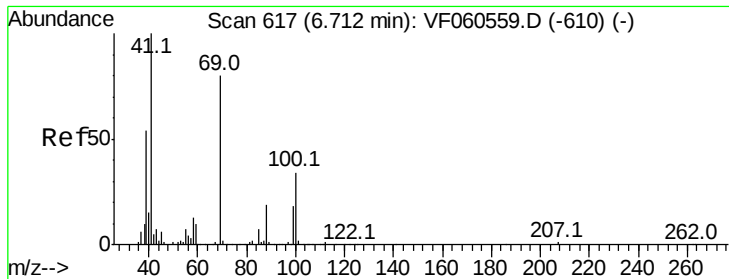
#35
Dibromofluoromethane
Concen: 53.642 ug/l
RT: 4.13 min Scan# 355
Delta R.T. 0.02 min
Lab File: VF060622.D
Acq: 6 Nov 2018 19:50

Tgt Ion:113 Resp: 195725
Ion Ratio Lower Upper
113 100
111 101.9 79.9 119.9
192 16.4 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: 4.432 ug/l

RT: 6.73 min Scan# 619

Delta R.T. 0.02 min

Lab File: VF060622.D

Acq: 6 Nov 2018 19:50

Instrument :
MSVOA_F
ClientSampled :

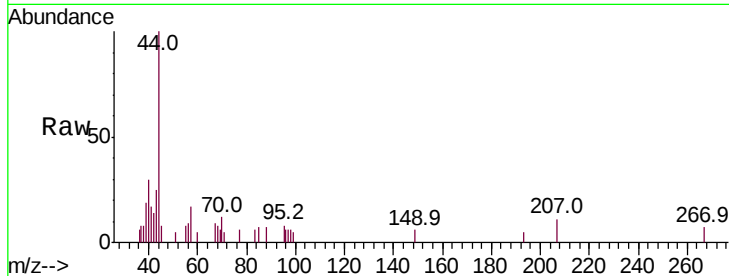
Tot Ion: 88 Resp: 92

Ion Ratio Lower Upper

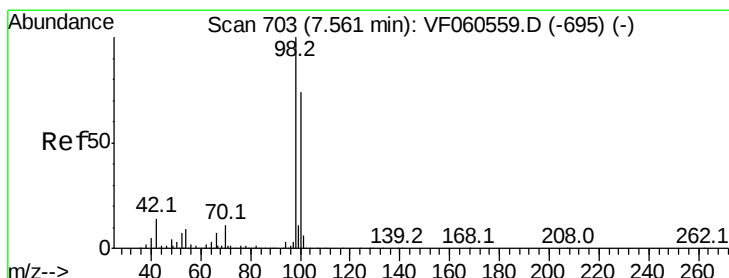
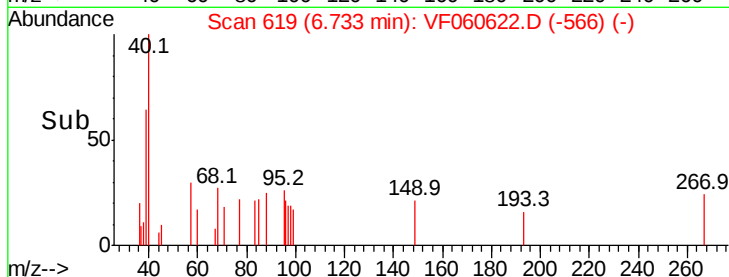
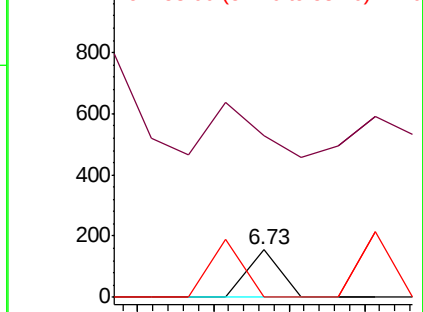
88 100

43 340.6 61.2 91.8#

58 0.0 56.9 85.3#



Abundance Ion 88.00 (87.70 to 88.70): VF0
Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 45.382 ug/l

RT: 7.57 min Scan# 704

Delta R.T. 0.01 min

Lab File: VF060622.D

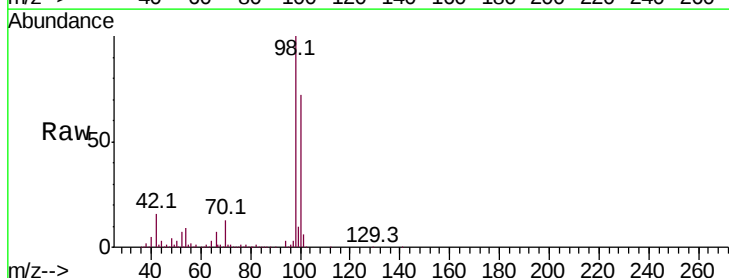
Acq: 6 Nov 2018 19:50

Tgt Ion: 98 Resp: 490517

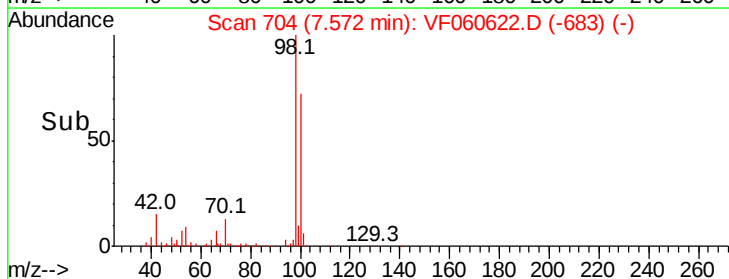
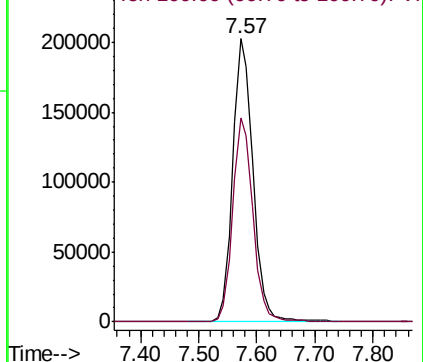
Ion Ratio Lower Upper

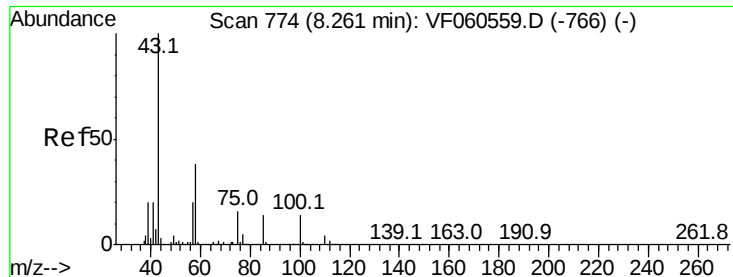
98 100

100 71.9 59.4 89.2



Abundance Ion 98.00 (97.70 to 98.70): VF0
Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 1.821 ug/l

RT: 8.30 min Scan# 778

Delta R.T. 0.04 min

Lab File: VF060622.D

Acq: 6 Nov 2018 19:50

Instrument :

MSVOA_F

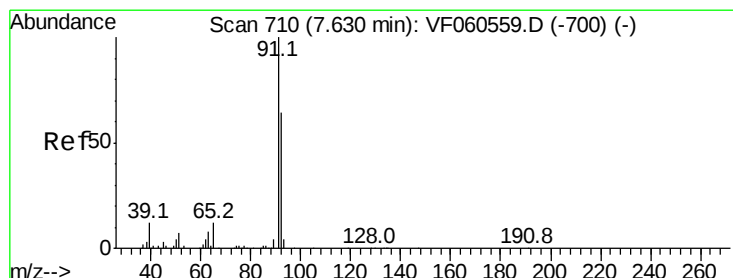
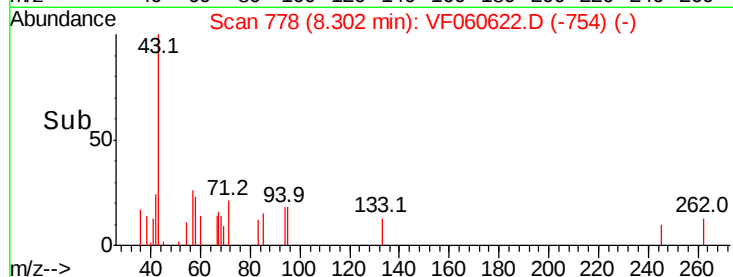
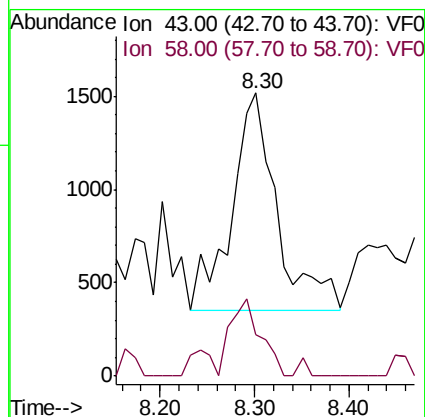
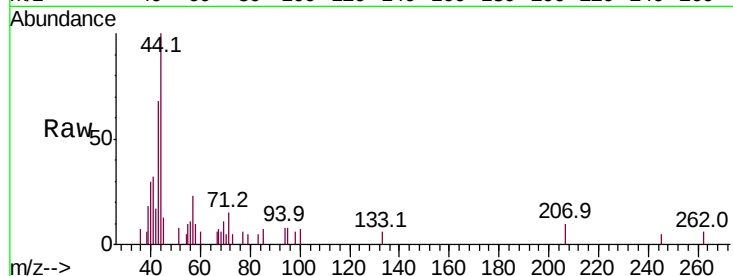
ClientSampleId :

Tot Ion: 43 Resp: 3866

Ion Ratio Lower Upper

43 100

58 14.6 30.1 45.1#



#52

Toluene

Concen: 3.144 ug/l

RT: 7.64 min Scan# 711

Delta R.T. 0.01 min

Lab File: VF060622.D

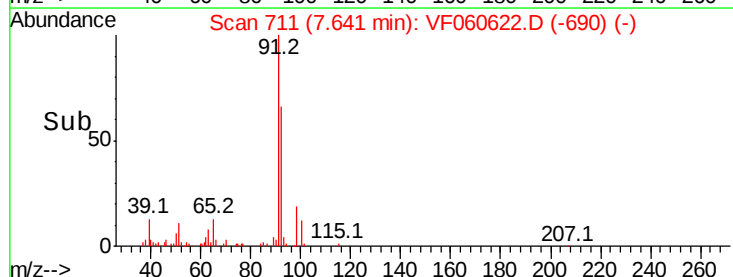
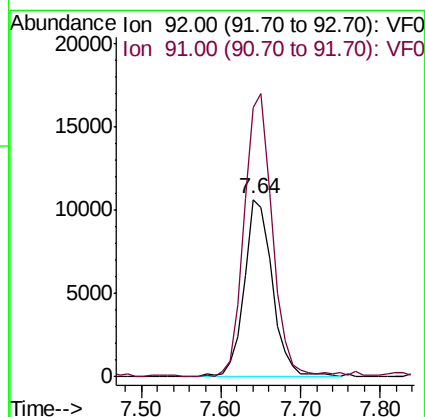
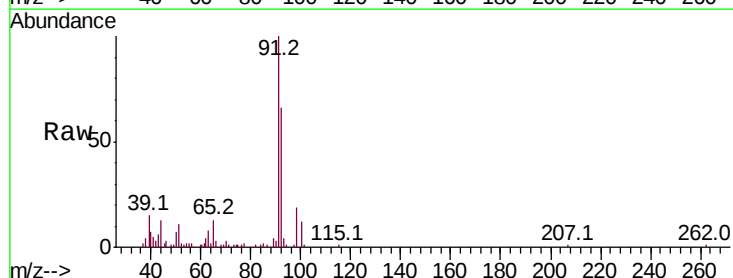
Acq: 6 Nov 2018 19:50

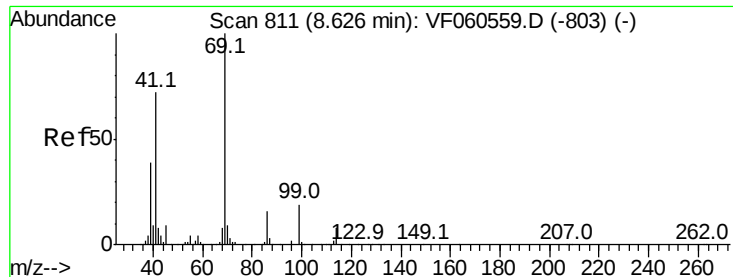
Tgt Ion: 92 Resp: 25852

Ion Ratio Lower Upper

92 100

91 152.1 124.5 186.7





#56

Ethyl methacrylate

Concen: 2.141 ug/l

RT: 8.65 min Scan# 813

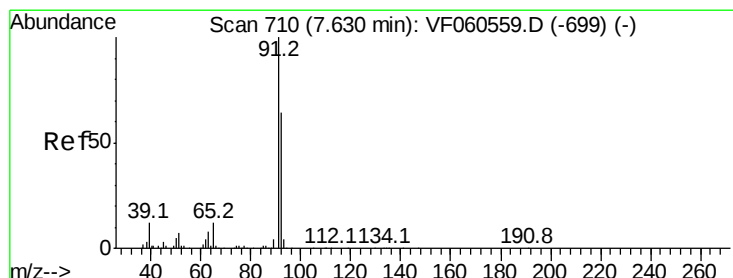
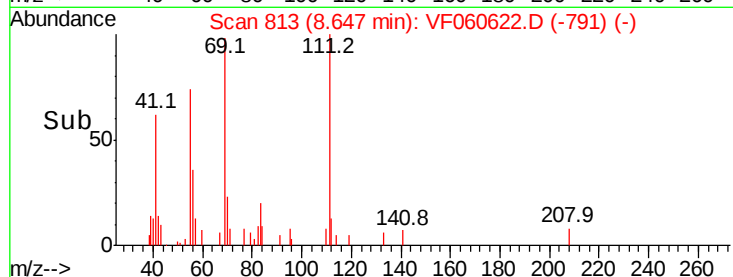
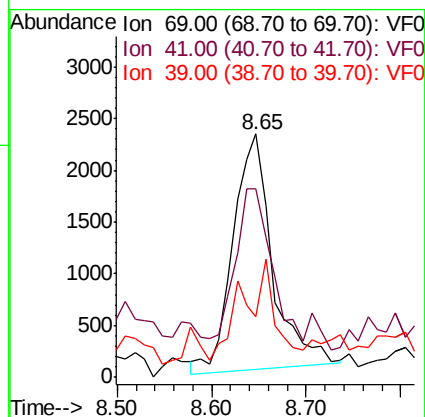
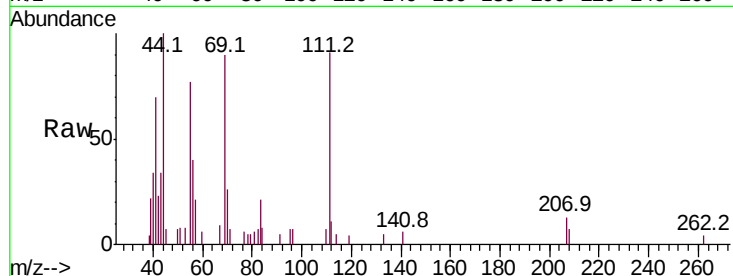
Delta R.T. 0.02 min

Lab File: VF060622.D

Acq: 6 Nov 2018 19:50

Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 69 Resp: 6591
Ion Ratio Lower Upper
69 100
41 77.3 59.2 88.8
39 25.0 32.3 48.5#



#58

2-Chloroethyl Vinyl ether

Concen: Below Cal

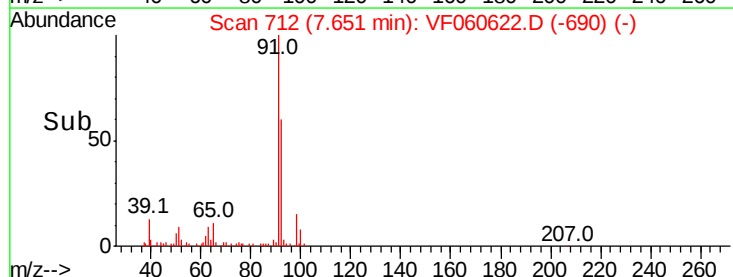
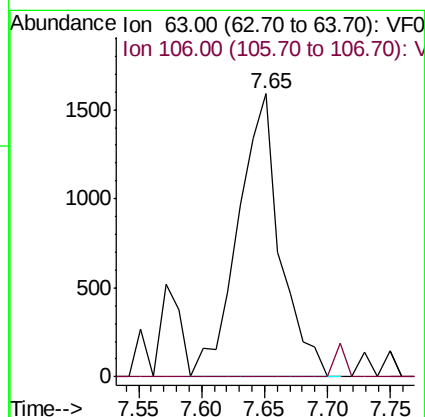
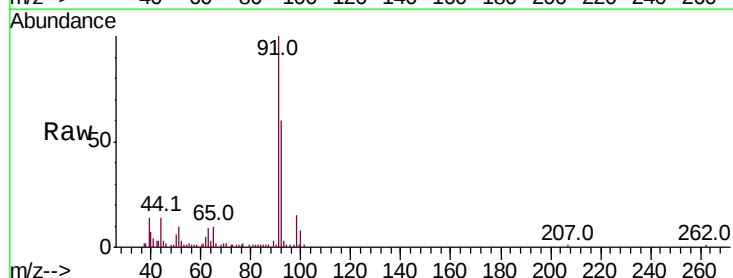
RT: 7.65 min Scan# 712

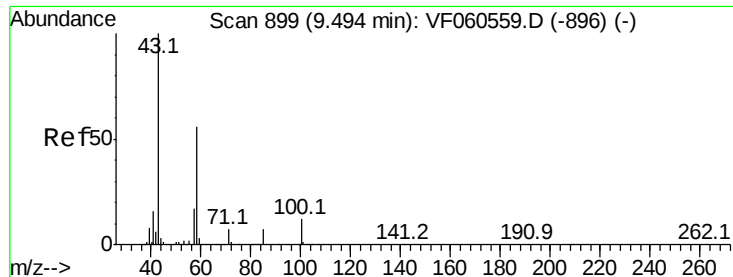
Delta R.T. 0.02 min

Lab File: VF060622.D

Acq: 6 Nov 2018 19:50

Tgt Ion: 63 Resp: 3682
Ion Ratio Lower Upper
63 100
106 0.0 0.0 0.0

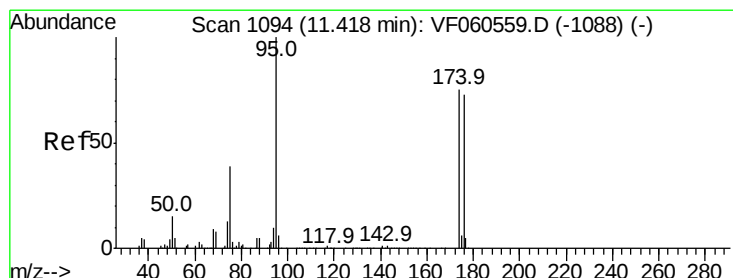
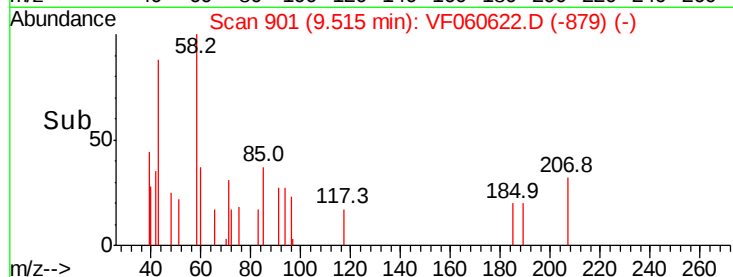
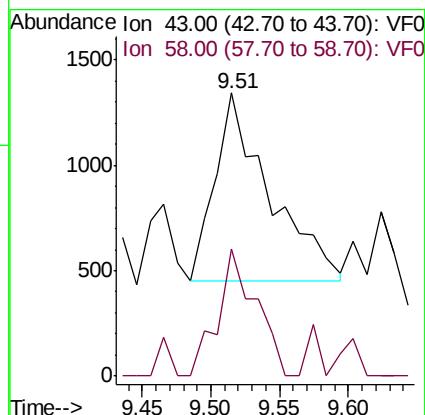
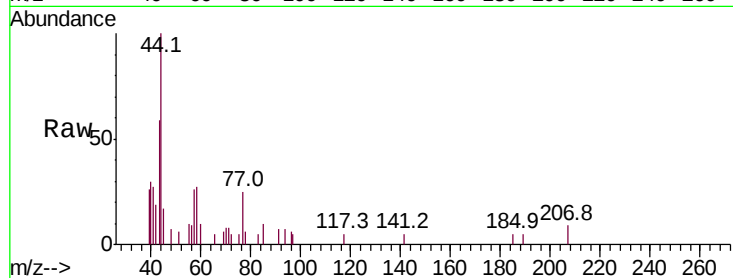




#59
2-Hexanone
Concen: Below Cal
RT: 9.51 min Scan# 901
Delta R.T. 0.02 min
Lab File: VF060622.D
Acq: 6 Nov 2018 19:50

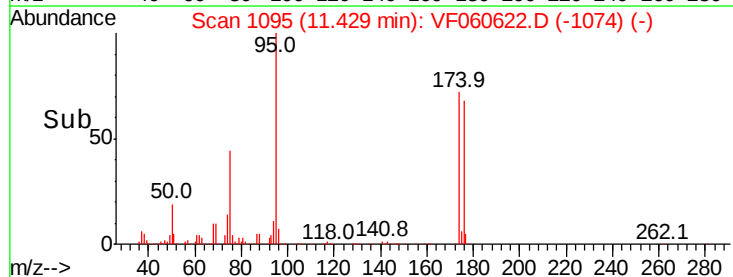
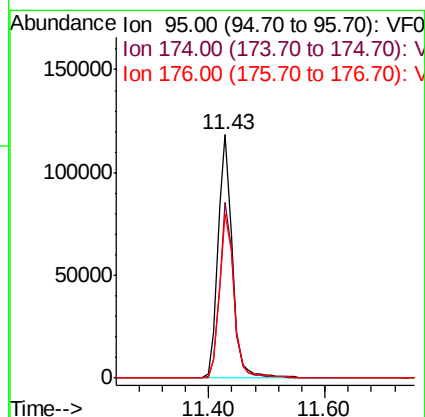
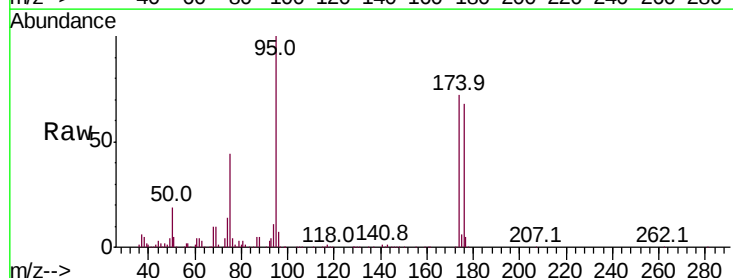
Instrument :
MSVOA_F
ClientSampled :

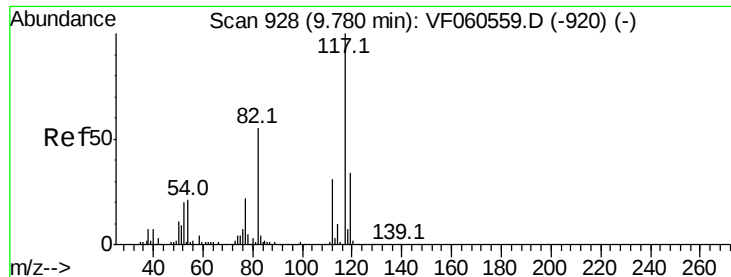
Tot Ion: 43 Resp: 2447
Ion Ratio Lower Upper
43 100
58 45.0 26.1 78.3



#62
4-Bromofluorobenzene
Concen: 42.668 ug/l
RT: 11.43 min Scan# 1095
Delta R.T. 0.01 min
Lab File: VF060622.D
Acq: 6 Nov 2018 19:50

Tgt Ion: 95 Resp: 201727
Ion Ratio Lower Upper
95 100
174 72.3 0.0 149.0
176 67.7 0.0 145.6

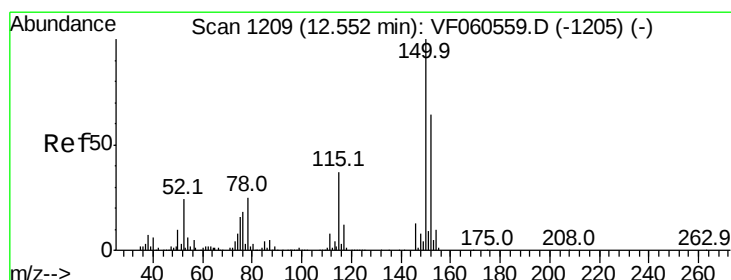
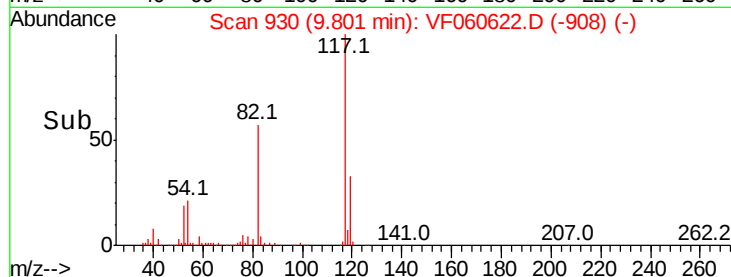
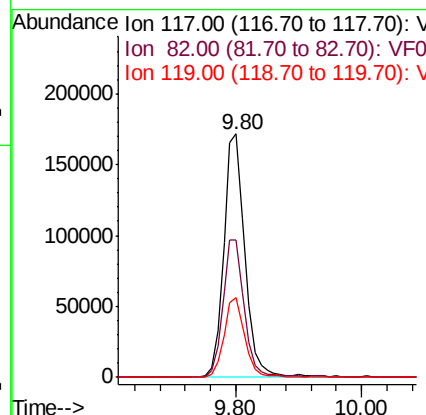
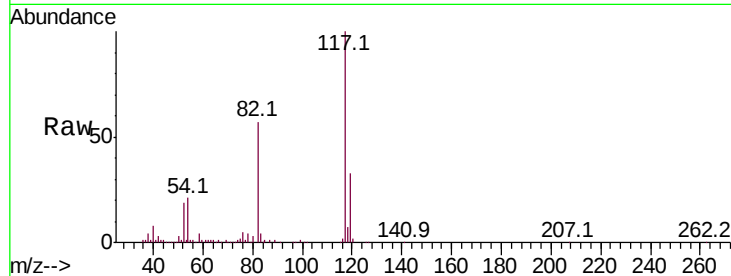




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.80 min Scan# 930
Delta R.T. 0.02 min
Lab File: VF060622.D
Acq: 6 Nov 2018 19:50

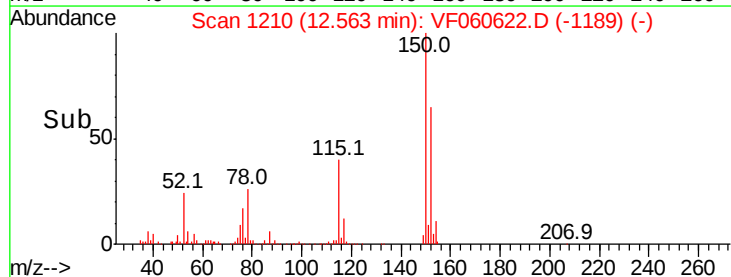
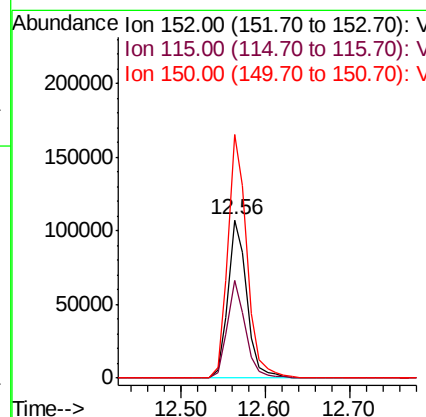
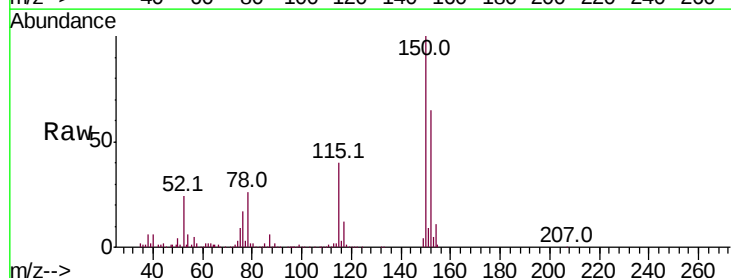
Instrument :
MSVOA_F
ClientSampleId :

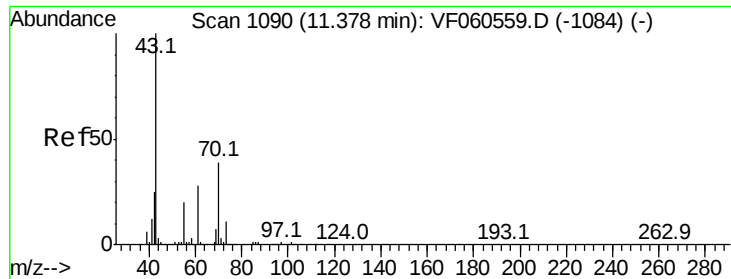
Tot Ion:117 Resp: 404064
Ion Ratio Lower Upper
117 100
82 56.7 43.9 65.9
119 32.6 27.4 41.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.56 min Scan# 1210
Delta R.T. 0.01 min
Lab File: VF060622.D
Acq: 6 Nov 2018 19:50

Tgt Ion:152 Resp: 168690
Ion Ratio Lower Upper
152 100
115 62.0 29.6 88.8
150 153.7 0.0 315.6





#74
 N-amvl acetate
 Concen: Below Cal
 RT: 11.39 min Scan# 1091
 Delta R.T. 0.01 min
 Lab File: VF060622.D
 Acq: 6 Nov 2018 19:50

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
43	100		
70	35.3	30.9	46.3
55	53.5	16.6	24.8#
61	19.0	22.0	33.0#

