

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF110718\
 Data File : VF060634.D
 Acq On : 7 Nov 2018 17:43
 Operator : VA/AP
 Sample : J5769-14RE
 Misc : 5.56µ/5mL/MSVOA-F/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Nov 07 17:03:03 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	269041	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.60	114	437038	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	370388	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	142150	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	122537	45.08	ug/l	0.00
Spiked Amount				50.000		
Recovery					=	90.16%
35) Dibromofluoromethane	4.12	113	152431	45.14	ug/l	0.01
Spiked Amount				50.000		
Recovery					=	90.28%
50) Toluene-d8	7.56	98	332834	33.28	ug/l	0.00
Spiked Amount				50.000		
Recovery					=	66.56%
62) 4-Bromofluorobenzene	11.42	95	138393	31.63	ug/l	0.00
Spiked Amount				50.000		
Recovery					=	63.26%

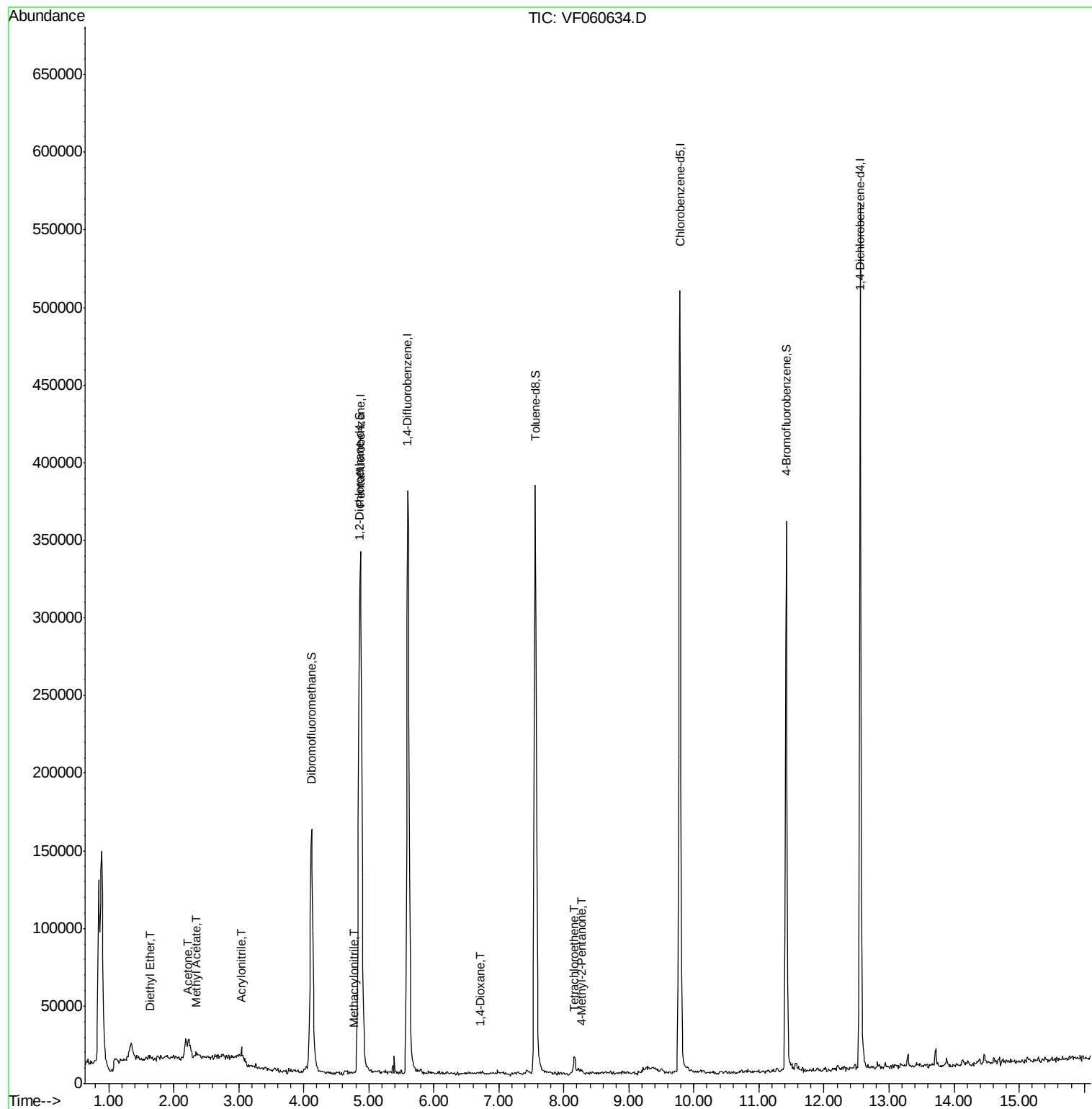
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.95	85	589	Below Cal	#	41
6) Chloroethane	1.43	64	111	Below Cal	#	57
8) Diethyl Ether	1.63	74	1307	1.737	ug/l #	41
11) Tert butyl alcohol	2.56	59	426	Below Cal	#	1
13) Acrolein	1.99	56	1091	Below Cal		96
15) Acrylonitrile	3.03	53	1431	4.417	ug/l #	38
16) Acetone	2.24	43	1355	2.115	ug/l #	83
18) Methyl Acetate	2.34	43	3495	3.958	ug/l	96
20) Methylene Chloride	2.24	84	7714	Below Cal	#	95
25) 2-Butanone	4.35	43	1071	Below Cal	#	56
29) Tetrahydrofuran	4.09	42	1614	Below Cal	#	50
41) Methacrylonitrile	4.77	41	1346	1.029	ug/l #	63
49) 1,4-Dioxane	6.71	88	63	3.279	ug/l #	1
51) 4-Methyl-2-Pentanone	8.27	43	2143	1.091	ug/l #	84
58) 2-Chloroethyl Vinyl ether	7.63	63	96	Below Cal		100
59) 2-Hexanone	9.50	43	2653	Below Cal		69
64) Tetrachloroethene	8.16	164	3302	1.138	ug/l #	81
74) N-amyl acetate	11.37	43	1723	Below Cal	#	45
89) n-Butylbenzene	12.85	91	1121	Below Cal		85

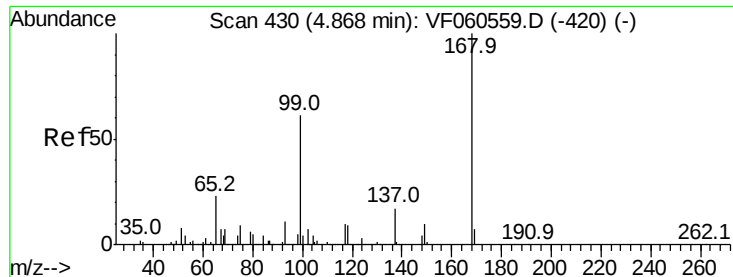
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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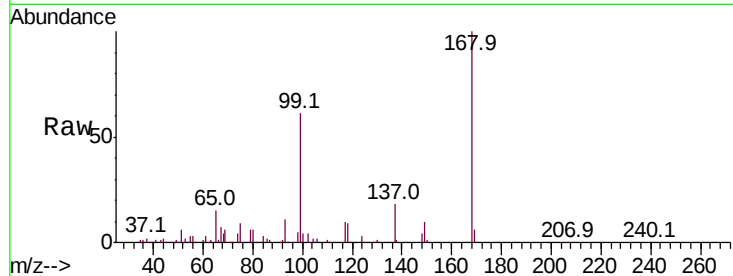


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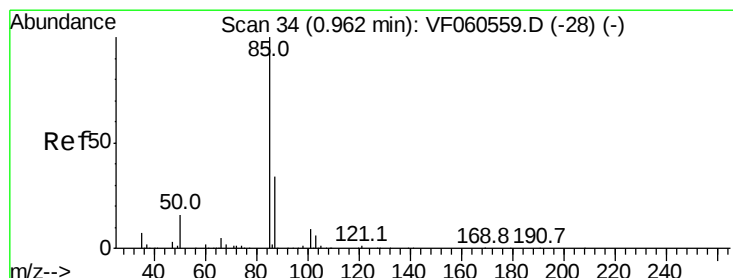
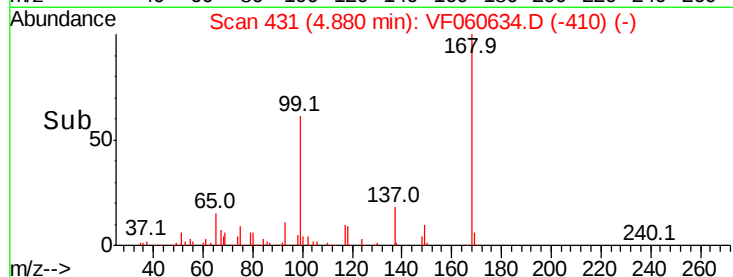
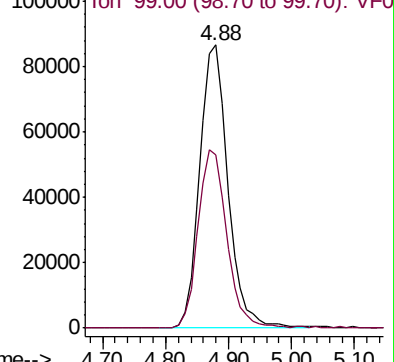
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.88 min Scan# 431
Delta R.T. 0.01 min
Lab File: VF060634.D
Acq: 7 Nov 2018 17:43

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 269041
Ion Ratio Lower Upper
168 100
99 61.1 48.6 72.8



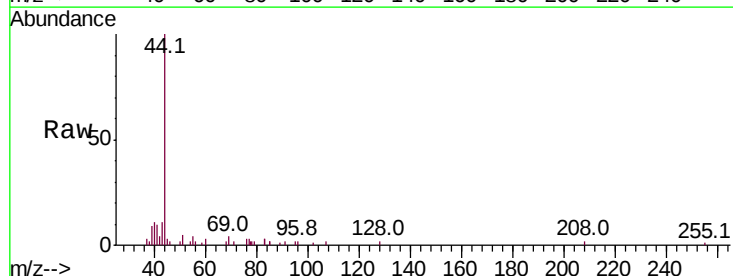
Abundance Ion 168.00 (167.70 to 168.70): VF0



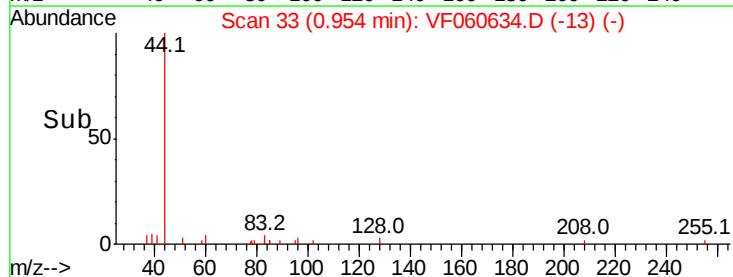
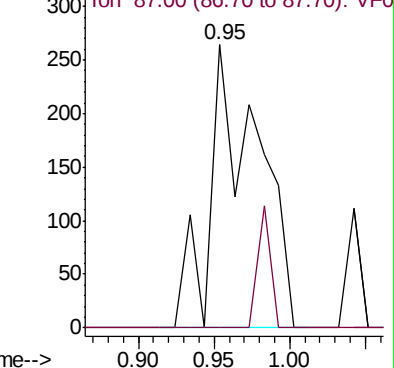
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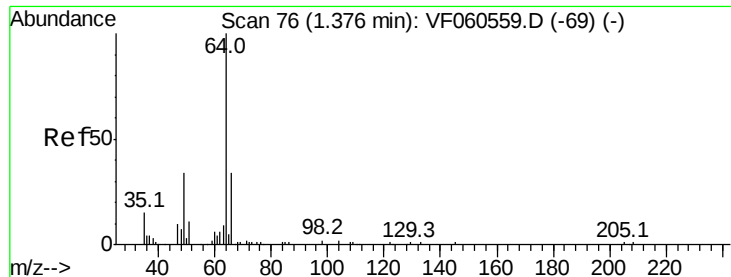
Dichlorodifluoromethane
Concen: Below Cal
RT: 0.95 min Scan# 33
Delta R.T. -0.01 min
Lab File: VF060634.D
Acq: 7 Nov 2018 17:43

Tgt Ion: 85 Resp: 589
Ion Ratio Lower Upper
85 100
87 0.0 16.9 50.7#



Abundance Ion 85.00 (84.70 to 85.70): VF0





#6

Chloroethane

Concen: Below Cal

RT: 1.43 min Scan# 81

Delta R.T. 0.05 min

Lab File: VF060634.D

Acq: 7 Nov 2018 17:43

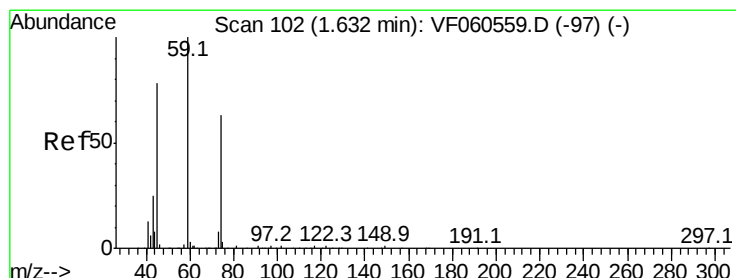
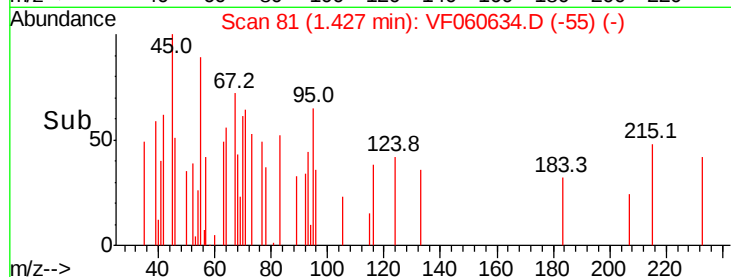
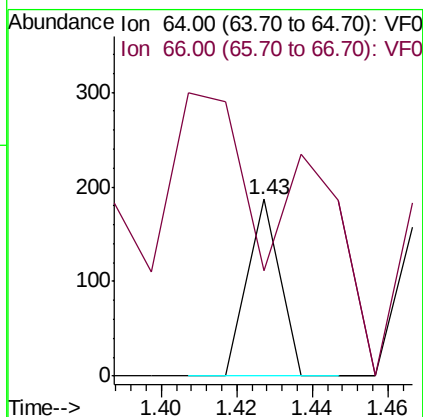
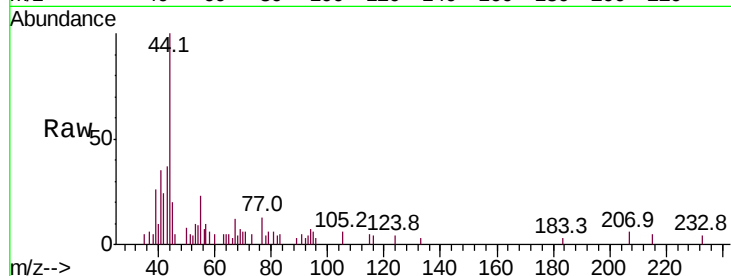
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 64 Resp: 111

Ion Ratio Lower Upper

64 100

66 59.9 27.8 41.8#



#8

Diethyl Ether

Concen: 1.737 ug/l

RT: 1.63 min Scan# 102

Delta R.T. 0.00 min

Lab File: VF060634.D

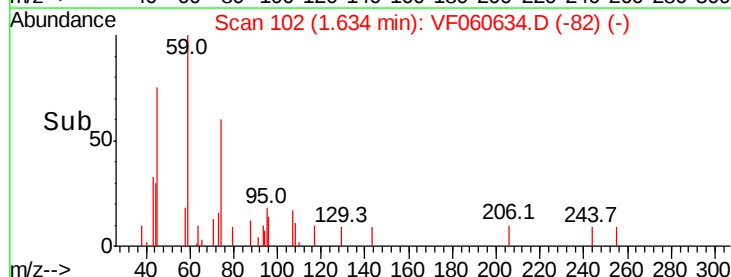
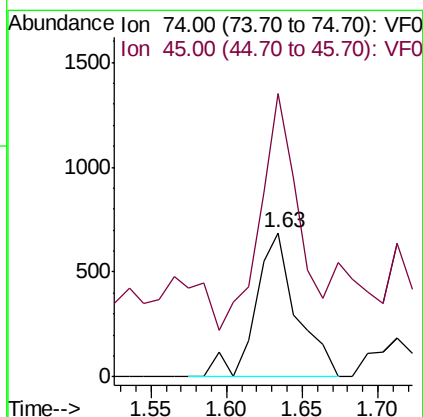
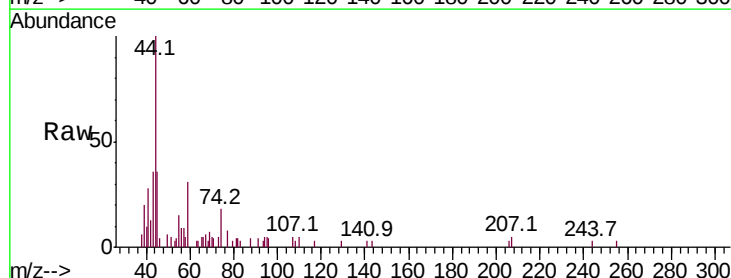
Acq: 7 Nov 2018 17:43

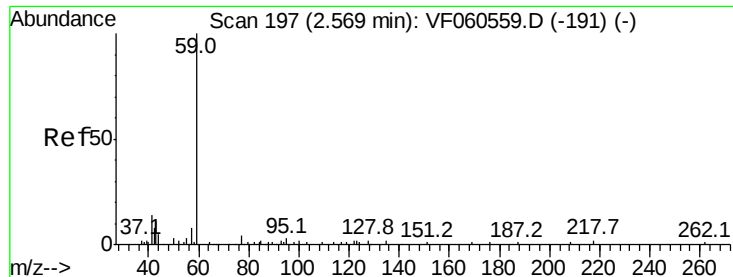
Tgt Ion: 74 Resp: 1307

Ion Ratio Lower Upper

74 100

45 196.2 63.8 191.5#



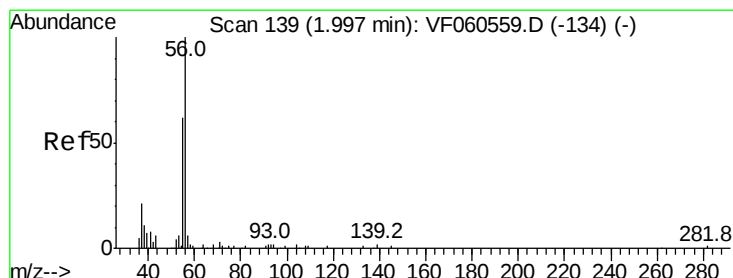
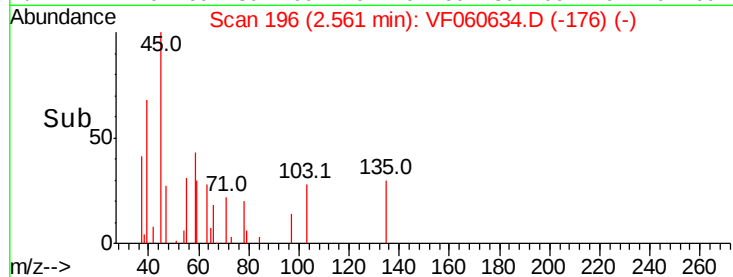
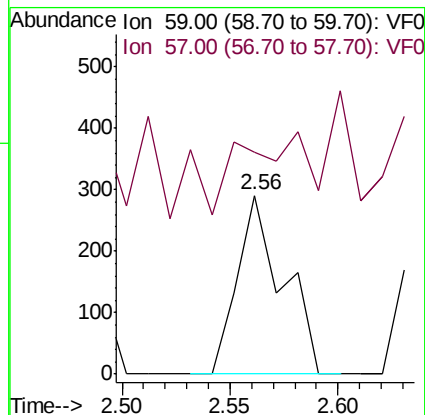
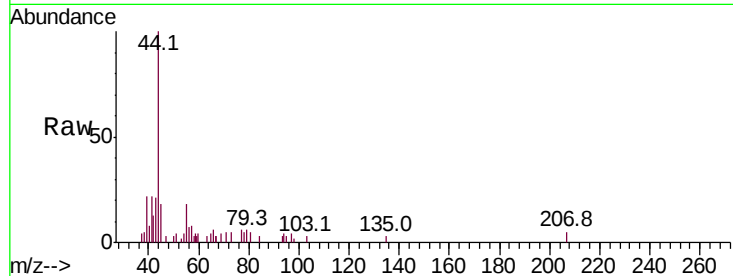


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 2.56 min Scan# 196
 Delta R.T. -0.01 min
 Lab File: VF060634.D
 Acq: 7 Nov 2018 17:43

Instrument :
 MSVOA_F
 ClientSampled :

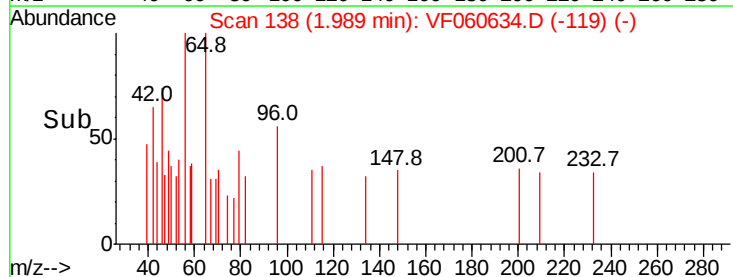
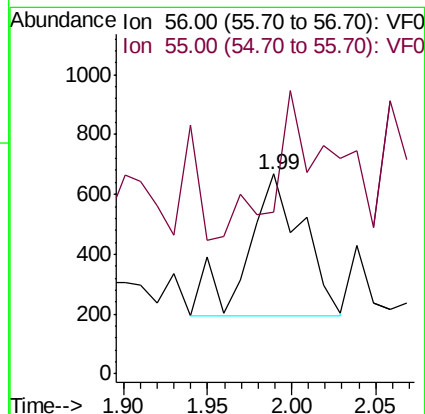
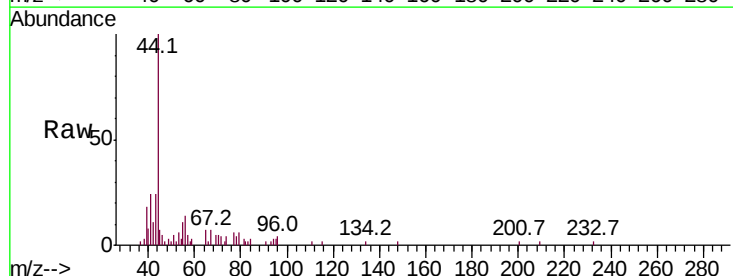
Tot Ion: 59 Resp: 426
 Ion Ratio Lower Upper
 59 100
 57 124.4 19.0 28.4#

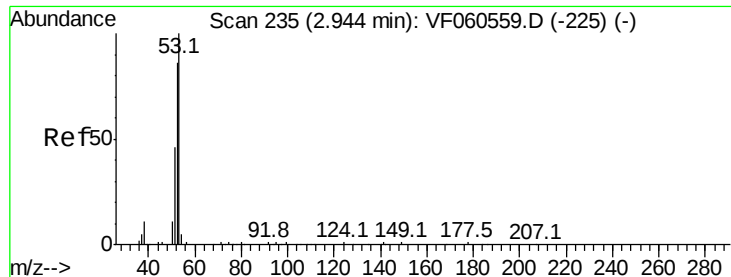


#13

Acrolein
 Concen: Below Cal
 RT: 1.99 min Scan# 138
 Delta R.T. -0.01 min
 Lab File: VF060634.D
 Acq: 7 Nov 2018 17:43

Tgt Ion: 56 Resp: 1091
 Ion Ratio Lower Upper
 56 100
 55 80.7 61.8 92.6





#15

Acrylonitrile

Concen: 4.417 ug/l

RT: 3.03 min Scan# 244

Delta R.T. 0.09 min

Lab File: VF060634.D

Acq: 7 Nov 2018 17:43

Instrument :
MSVOA_F
ClientSampled :

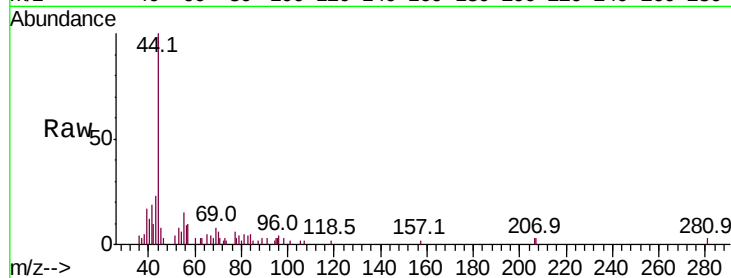
Tot Ion: 53 Resp: 1431

Ion Ratio Lower Upper

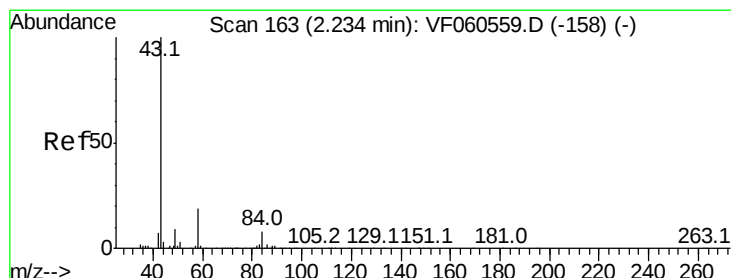
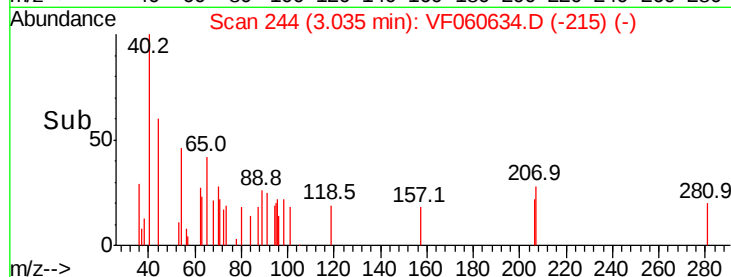
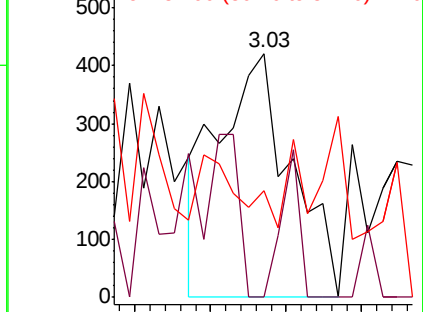
53 100

52 0.0 68.5 102.7#

51 43.9 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: 2.115 ug/l

RT: 2.24 min Scan# 163

Delta R.T. 0.00 min

Lab File: VF060634.D

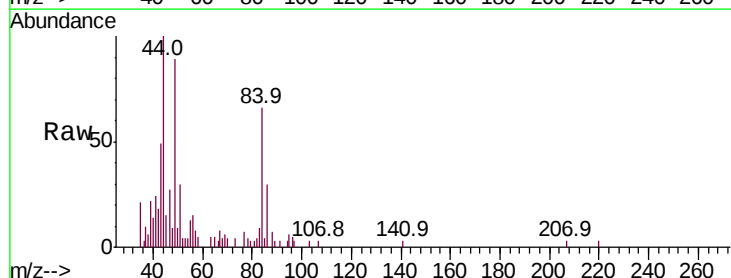
Acq: 7 Nov 2018 17:43

Tgt Ion: 43 Resp: 1355

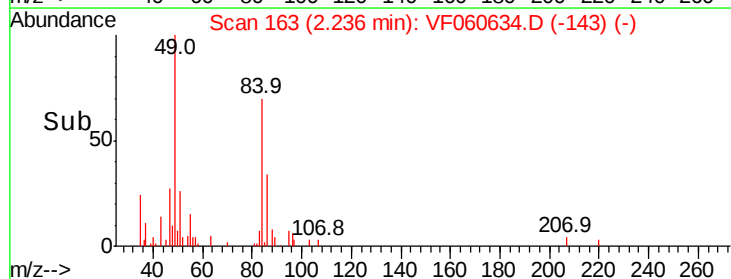
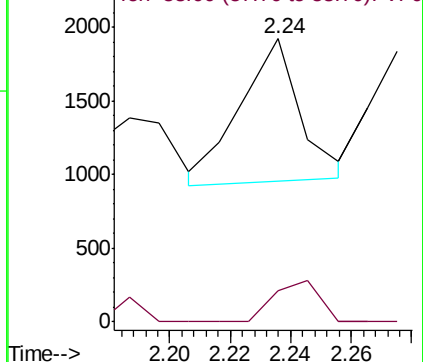
Ion Ratio Lower Upper

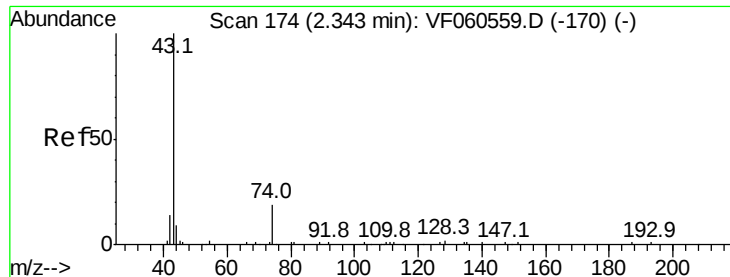
43 100

58 10.8 14.6 22.0#



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

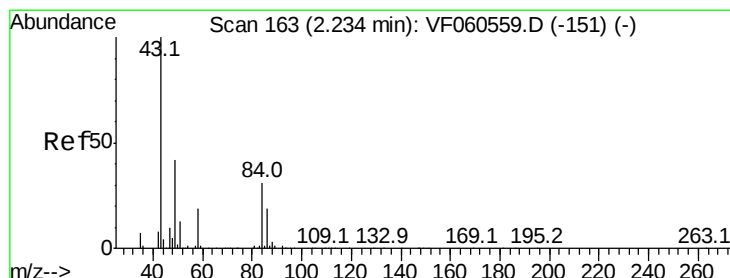
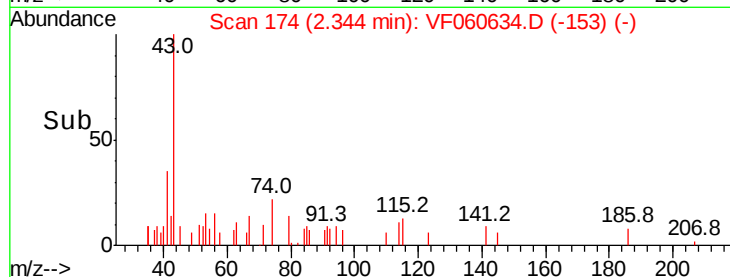
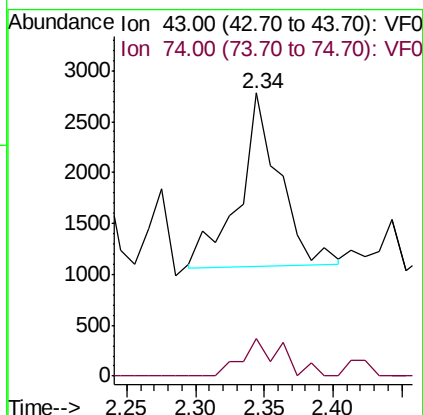
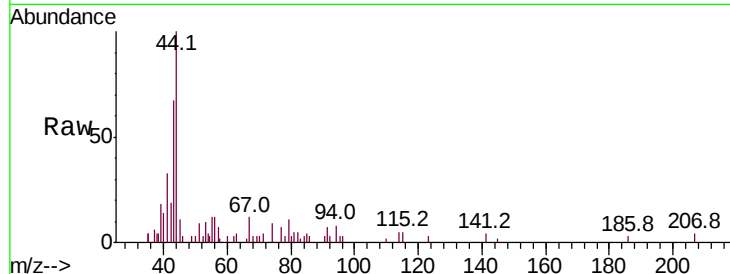




#18
Methyl Acetate
Concen: 3.958 ug/l
RT: 2.34 min Scan# 174
Delta R.T. 0.00 min
Lab File: VF060634.D
Acq: 7 Nov 2018 17:43

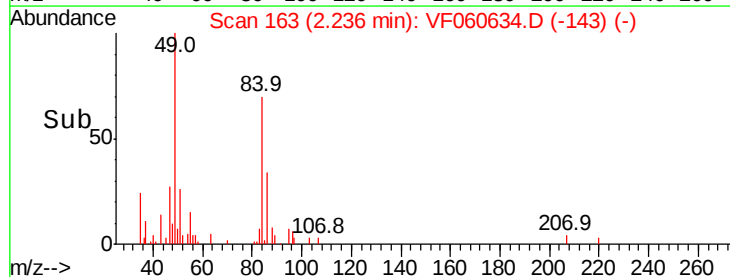
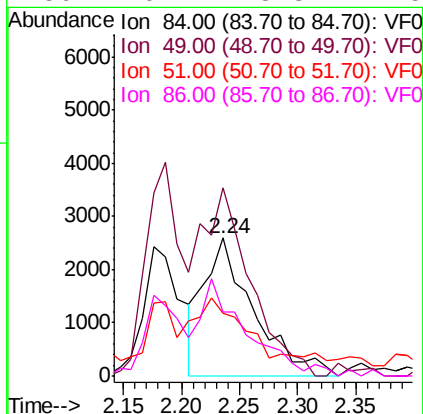
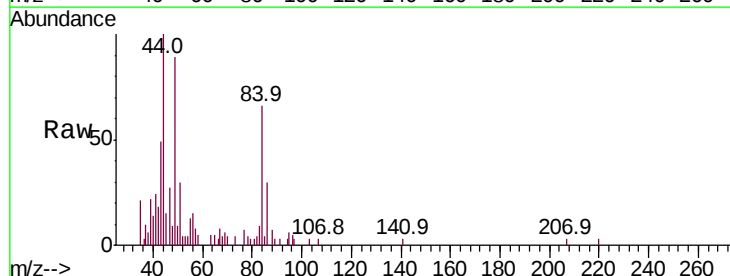
Instrument :
MSVOA_F
ClientSampled :

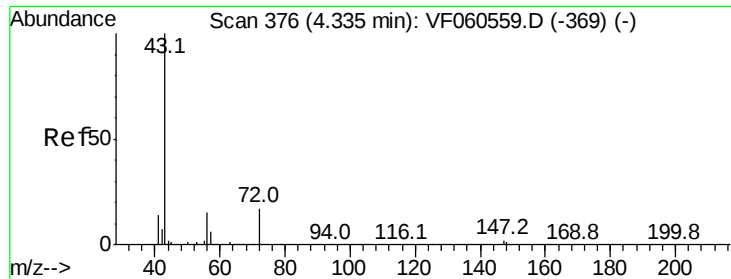
Tot Ion: 43 Resp: 3495
Ion Ratio Lower Upper
43 100
74 13.2 12.1 18.1



#20
Methylene Chloride
Concen: Below Cal
RT: 2.24 min Scan# 163
Delta R.T. 0.00 min
Lab File: VF060634.D
Acq: 7 Nov 2018 17:43

Tgt Ion: 84 Resp: 7714
Ion Ratio Lower Upper
84 100
49 136.0 109.9 164.9
51 45.0 35.8 53.8
86 46.2 48.3 72.5#

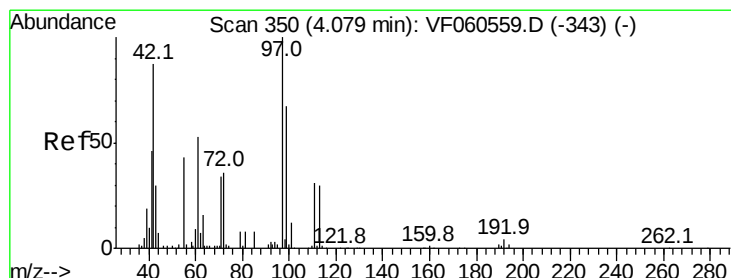
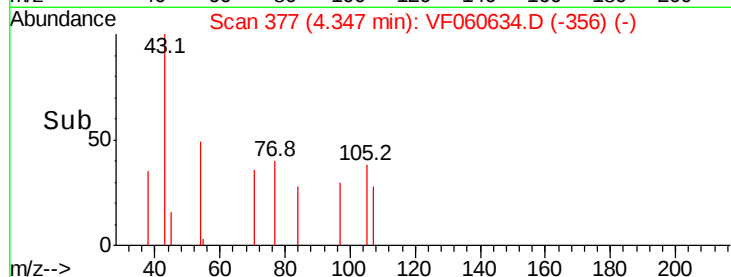
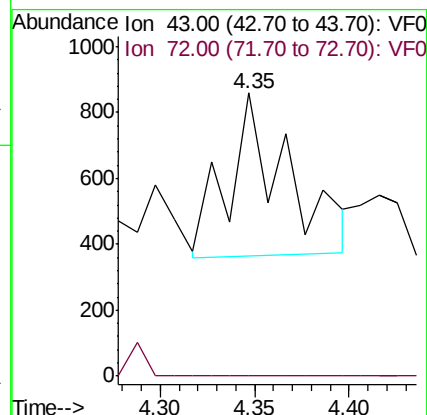
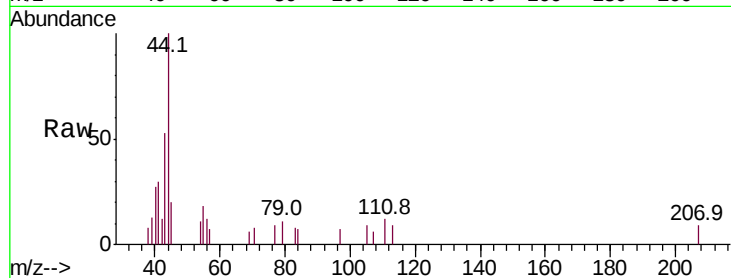




#25
2-Butanone
Concen: Below Cal
RT: 4.35 min Scan# 377
Delta R.T. 0.01 min
Lab File: VF060634.D
Acq: 7 Nov 2018 17:43

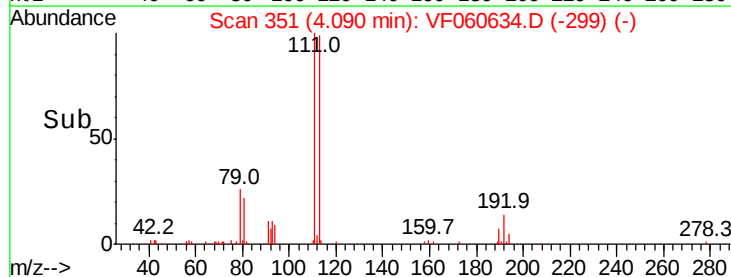
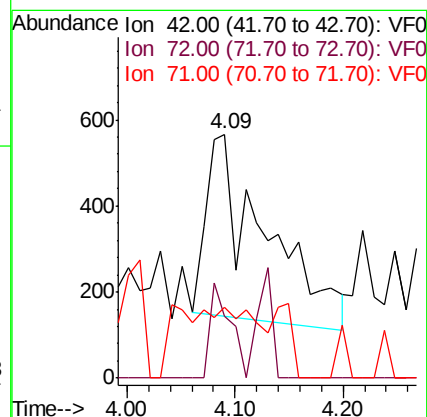
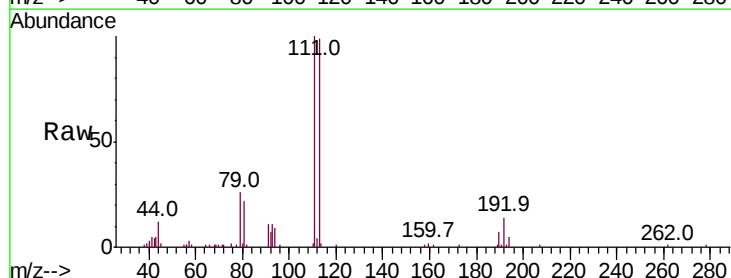
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MSVOA_F
ClientSampled :

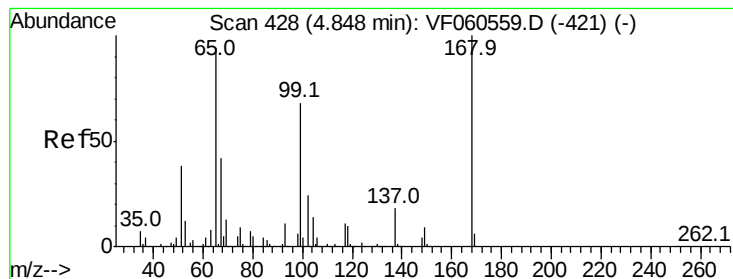
Tot Ion: 43 Resp: 1071
Ion Ratio Lower Upper
43 100
72 0.0 16.2 24.2#



#29
Tetrahydrofuran
Concen: Below Cal
RT: 4.09 min Scan# 351
Delta R.T. 0.01 min
Lab File: VF060634.D
Acq: 7 Nov 2018 17:43

Tgt Ion: 42 Resp: 1614
Ion Ratio Lower Upper
42 100
72 17.8 31.4 47.0#
71 0.0 31.8 47.6#





#33

1,2-Dichloroethane-d4

Concen: 45.078 ug/l

RT: 4.85 min Scan# 428

Delta R.T. 0.00 min

Lab File: VF060634.D

Acq: 7 Nov 2018 17:43

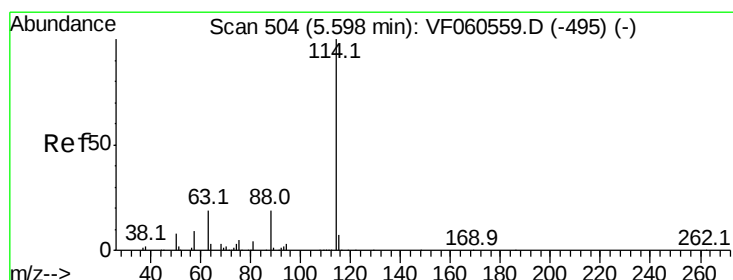
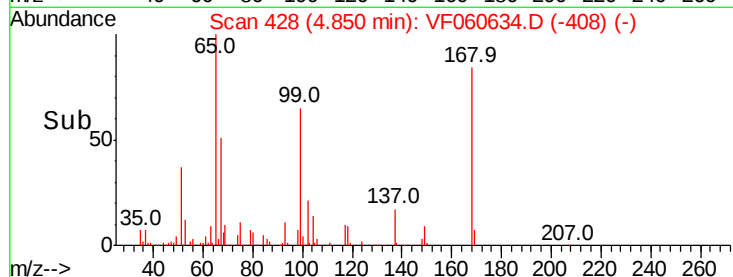
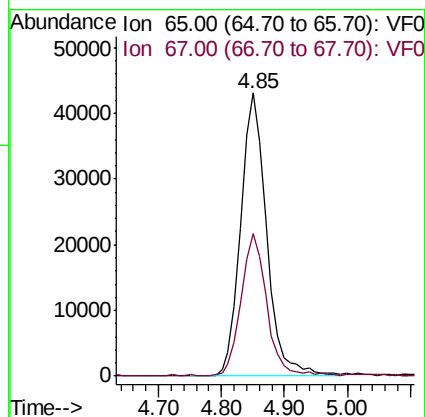
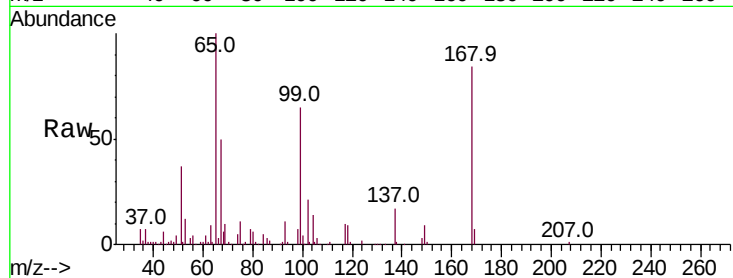
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 65 Resp: 122537

Ion Ratio Lower Upper

65 100

67 50.4 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. 0.00 min

Lab File: VF060634.D

Acq: 7 Nov 2018 17:43

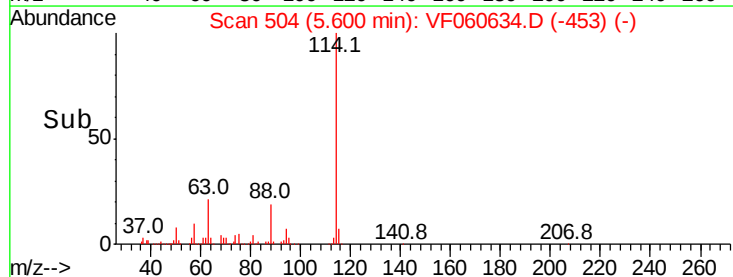
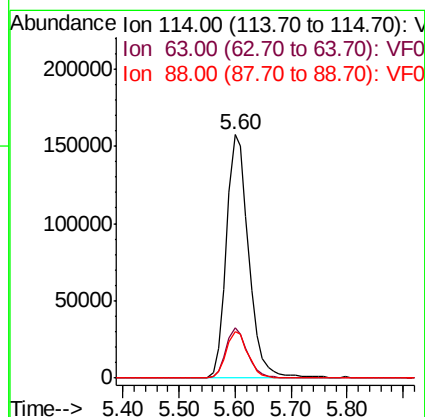
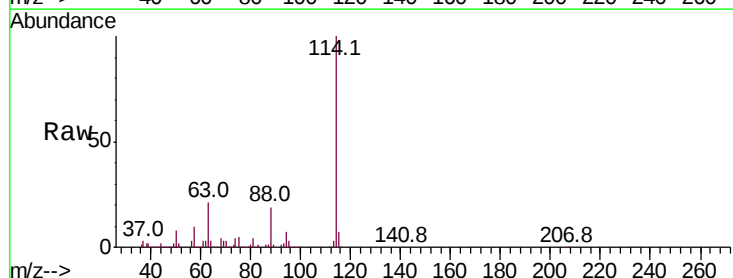
Tgt Ion: 114 Resp: 437038

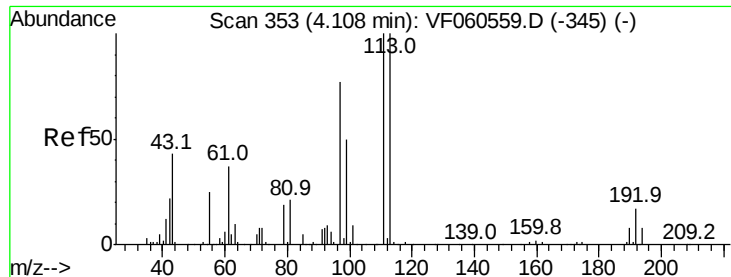
Ion Ratio Lower Upper

114 100

63 20.7 0.0 39.0

88 19.0 0.0 38.2

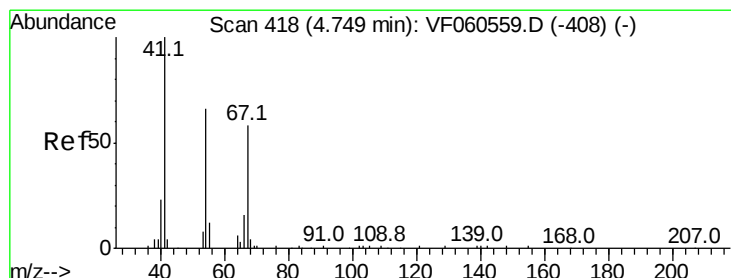
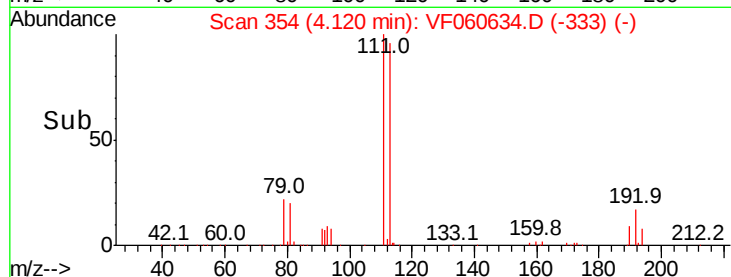
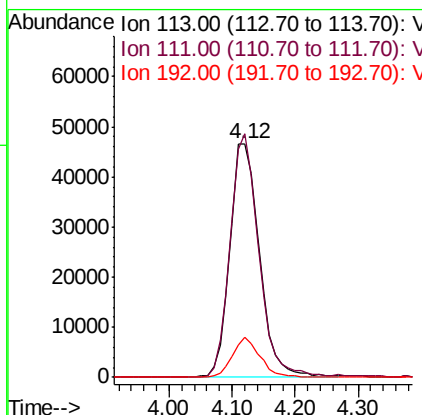
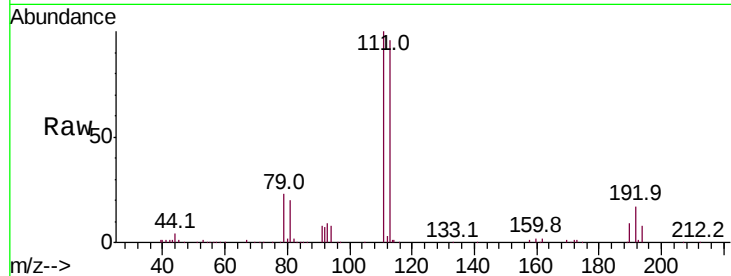




#35
 Dibromofluoromethane
 Concen: 45.144 ug/l
 RT: 4.12 min Scan# 354
 Delta R.T. 0.01 min
 Lab File: VF060634.D
 Acq: 7 Nov 2018 17:43

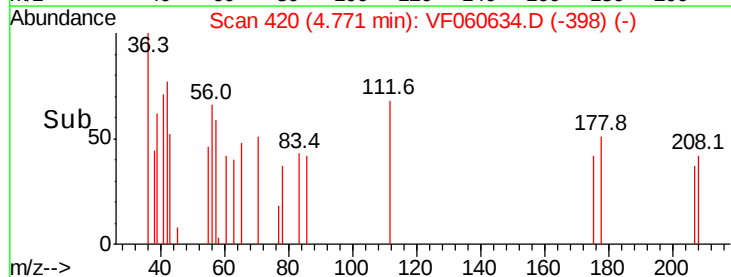
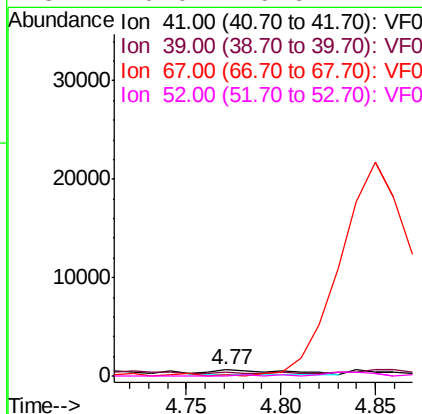
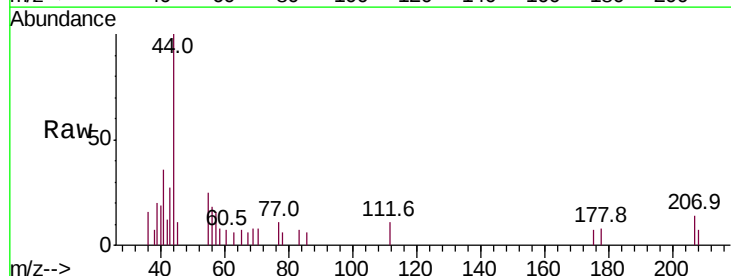
Instrument :
 MSVOA_F
 ClientSampleId :

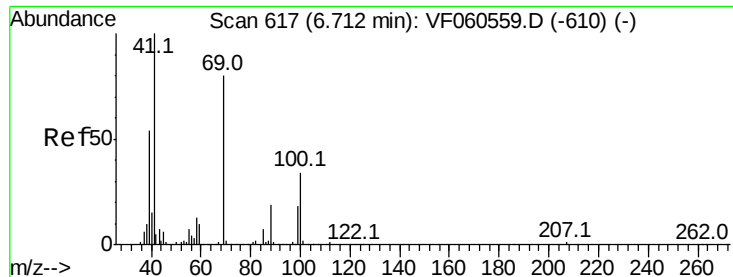
Tot Ion:113 Resp: 152431
 Ion Ratio Lower Upper
 113 100
 111 104.2 79.9 119.9
 192 18.0 13.3 19.9



#41
 Methacrylonitrile
 Concen: 1.029 ug/l
 RT: 4.77 min Scan# 420
 Delta R.T. 0.02 min
 Lab File: VF060634.D
 Acq: 7 Nov 2018 17:43

Tgt Ion: 41 Resp: 1346
 Ion Ratio Lower Upper
 41 100
 39 54.7 45.6 68.4
 67 16.5 45.3 67.9#
 52 0.0 29.6 44.4#

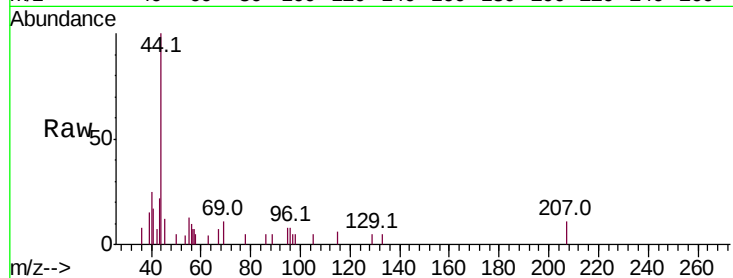




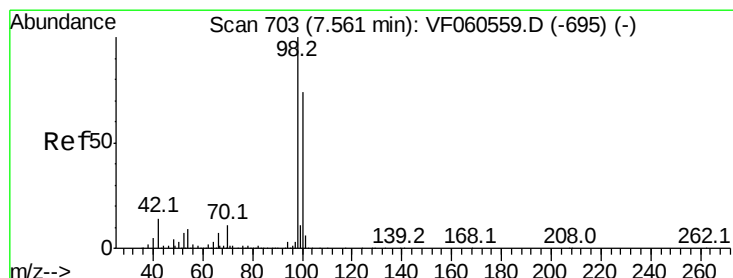
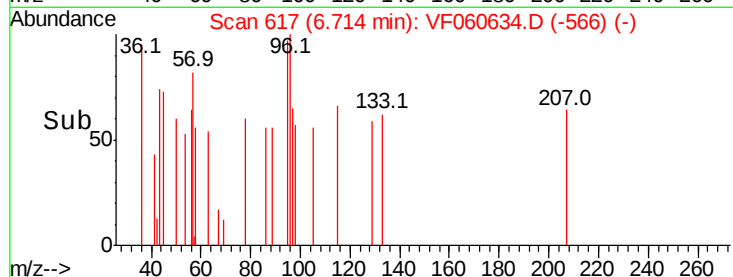
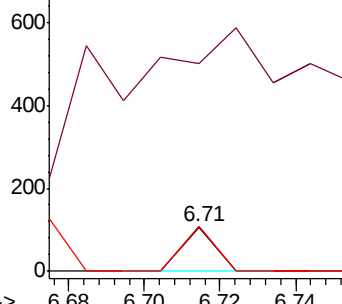
#49
1,4-Dioxane
Concen: 3.279 ug/l
RT: 6.71 min Scan# 617
Delta R.T. 0.00 min
Lab File: VF060634.D
Acq: 7 Nov 2018 17:43

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 88 Resp: 63
Ion Ratio Lower Upper
88 100
43 467.3 61.2 91.8#
58 100.9 56.9 85.3#

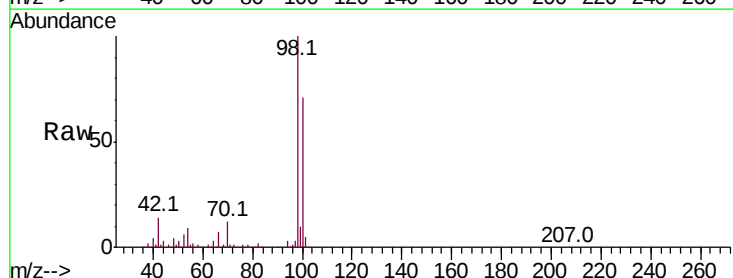


Abundance Ion 88.00 (87.70 to 88.70): VF0
Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0

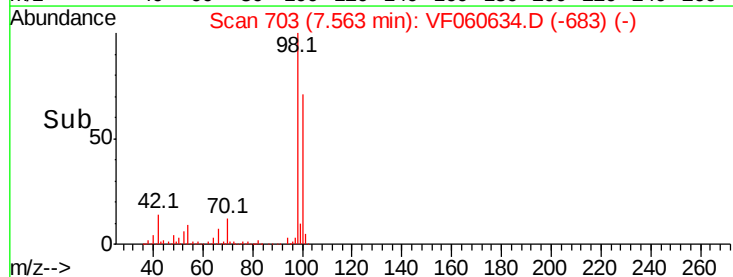
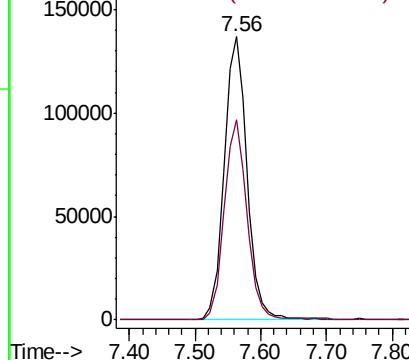


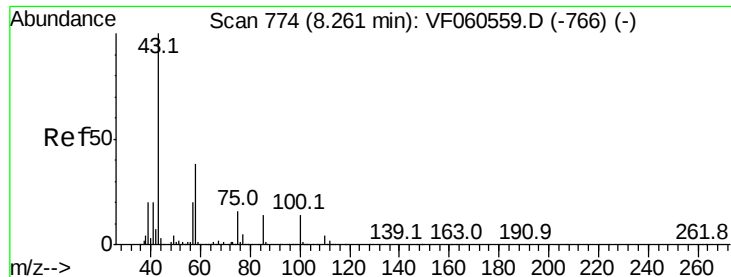
#50
Toluene-d8
Concen: 33.276 ug/l
RT: 7.56 min Scan# 703
Delta R.T. 0.00 min
Lab File: VF060634.D
Acq: 7 Nov 2018 17:43

Tgt Ion: 98 Resp: 332834
Ion Ratio Lower Upper
98 100
100 70.5 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: 1.091 ug/l

RT: 8.27 min Scan# 775

Delta R.T. 0.01 min

Lab File: VF060634.D

Acq: 7 Nov 2018 17:43

Instrument :

MSVOA_F

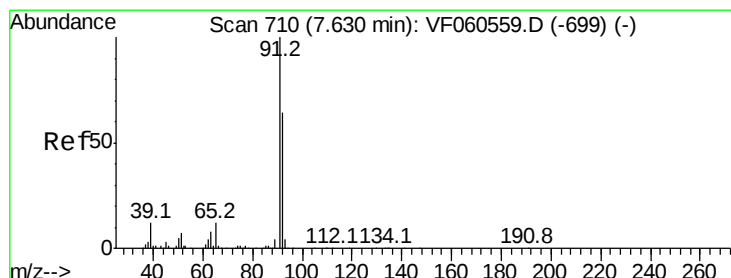
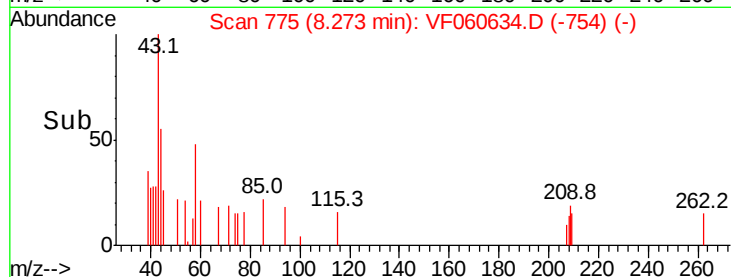
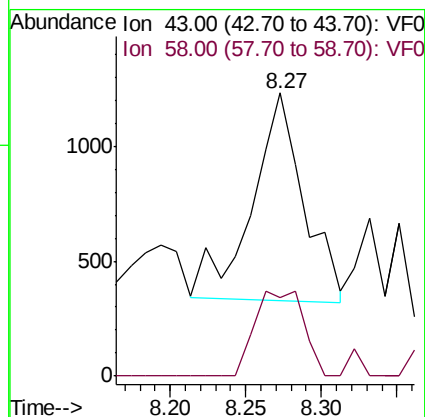
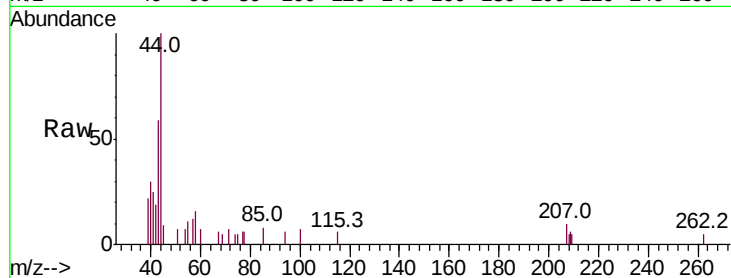
ClientSampleId :

Tot Ion: 43 Resp: 2143

Ion Ratio Lower Upper

43 100

58 27.7 30.1 45.1#



#58

2-Chloroethyl Vinyl ether

Concen: Below Cal

RT: 7.63 min Scan# 710

Delta R.T. 0.00 min

Lab File: VF060634.D

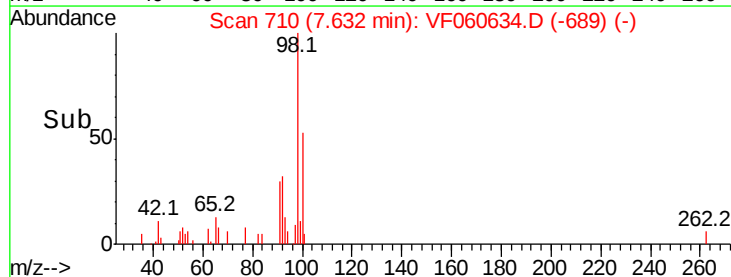
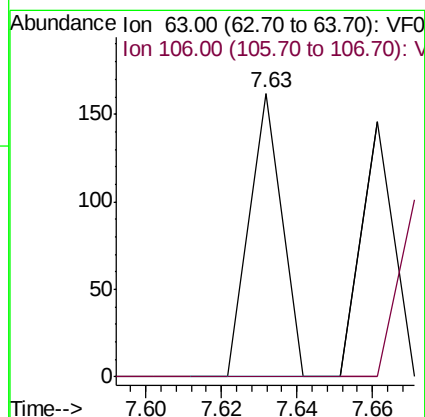
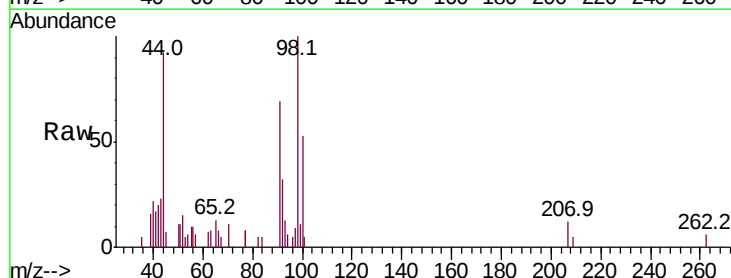
Acq: 7 Nov 2018 17:43

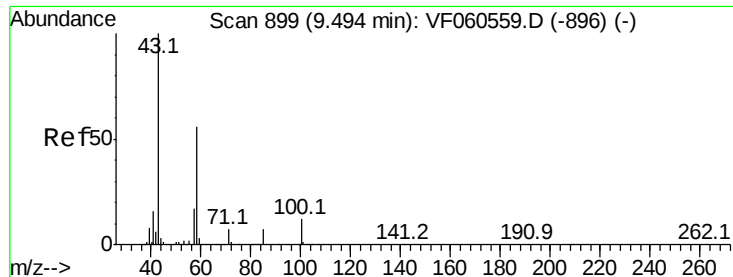
Tgt Ion: 63 Resp: 96

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0

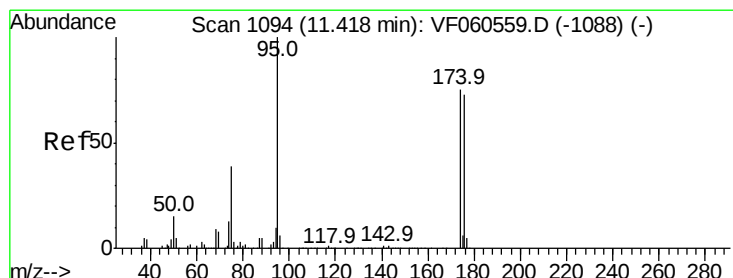
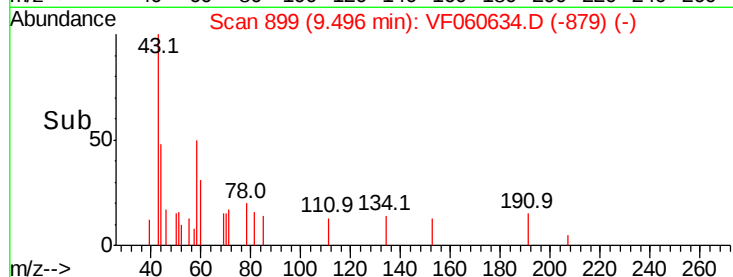
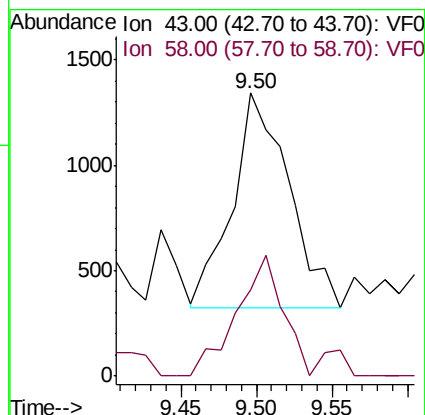
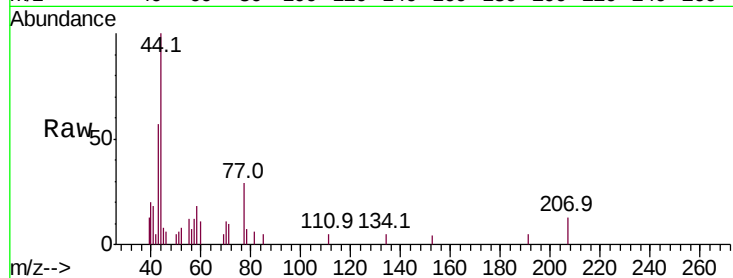




#59
2-Hexanone
Concen: Below Cal
RT: 9.50 min Scan# 899
Delta R.T. 0.00 min
Lab File: VF060634.D
Acq: 7 Nov 2018 17:43

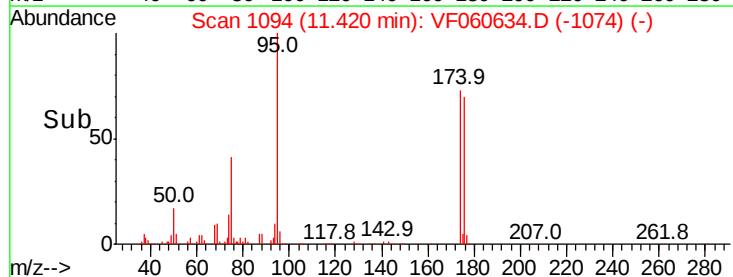
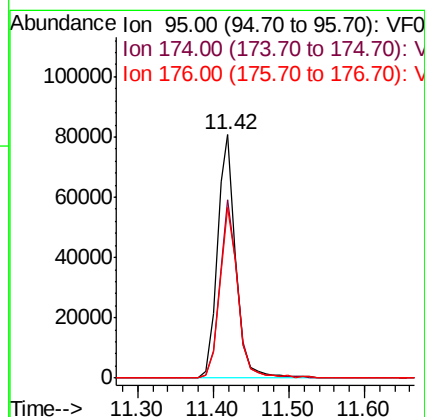
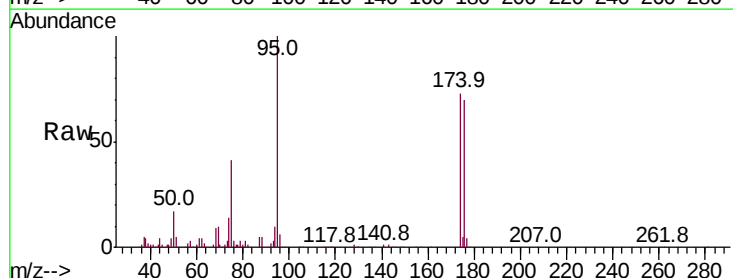
Instrument :
MSVOA_F
ClientSampled :

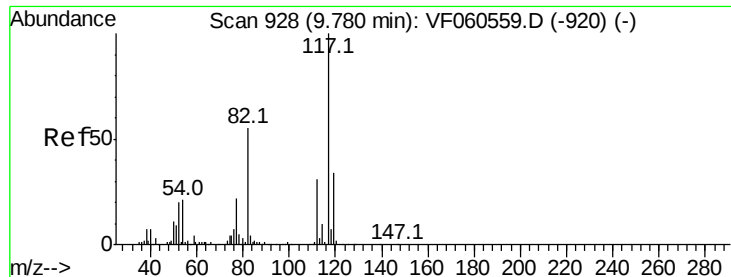
Tot Ion: 43 Resp: 2653
Ion Ratio Lower Upper
43 100
58 30.6 26.1 78.3



#62
4-Bromofluorobenzene
Concen: 31.631 ug/l
RT: 11.42 min Scan# 1094
Delta R.T. 0.00 min
Lab File: VF060634.D
Acq: 7 Nov 2018 17:43

Tgt Ion: 95 Resp: 138393
Ion Ratio Lower Upper
95 100
174 73.0 0.0 149.0
176 69.9 0.0 145.6

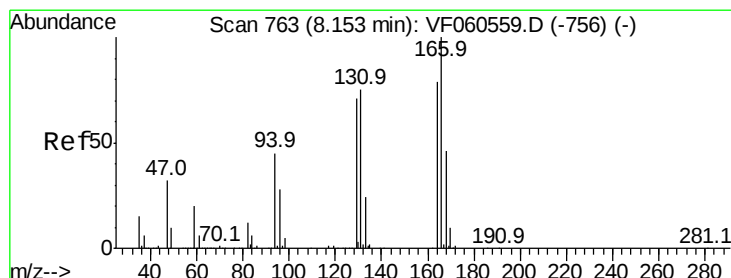
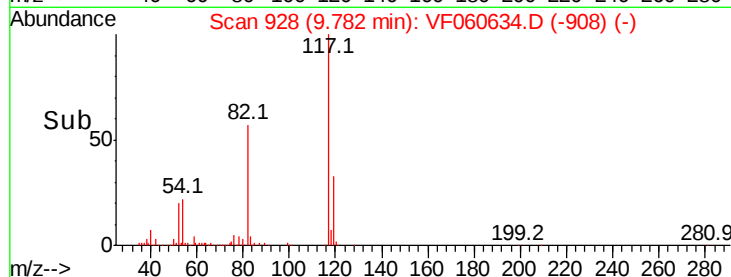
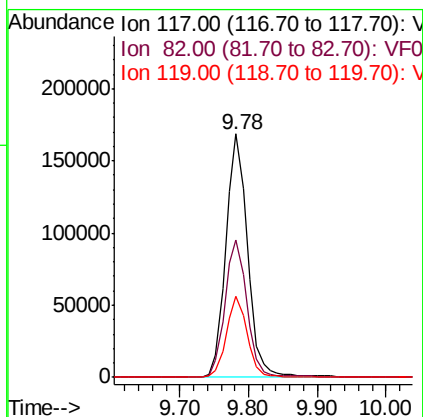
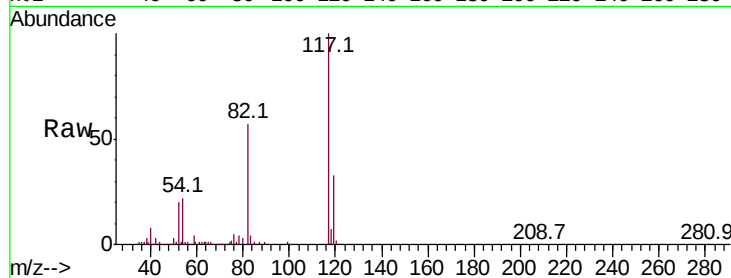




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. 0.00 min
Lab File: VF060634.D
Acq: 7 Nov 2018 17:43

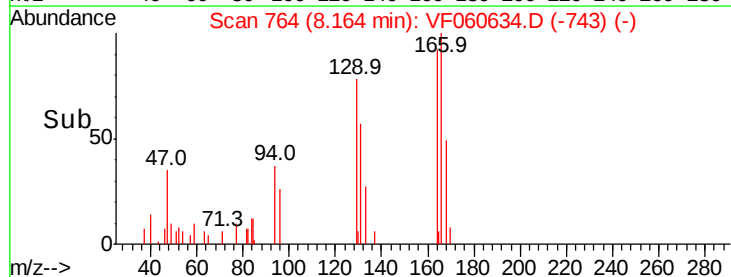
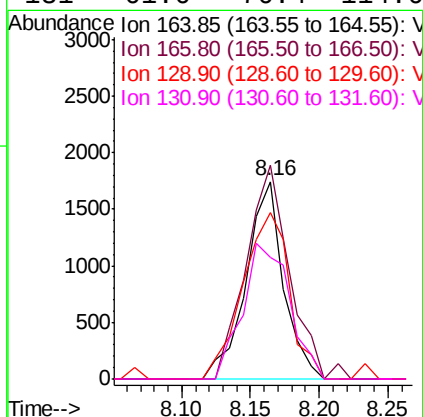
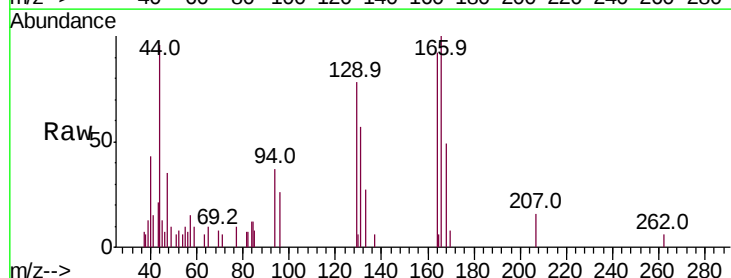
Instrument :
MSVOA_F
ClientSampleId :

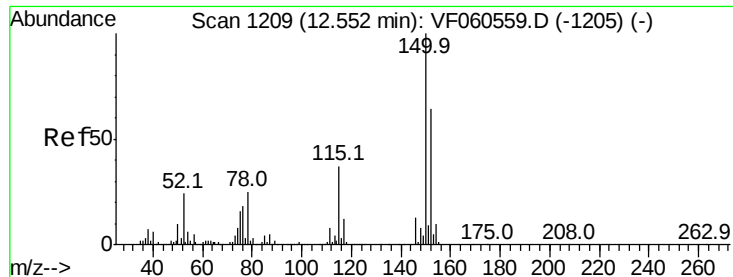
Tot Ion:117 Resp: 370388
Ion Ratio Lower Upper
117 100
82 56.6 43.9 65.9
119 33.1 27.4 41.0



#64
Tetrachloroethene
Concen: 1.138 ug/l
RT: 8.16 min Scan# 764
Delta R.T. 0.01 min
Lab File: VF060634.D
Acq: 7 Nov 2018 17:43

Tgt Ion:164 Resp: 3302
Ion Ratio Lower Upper
164 100
166 108.2 101.5 152.3
129 84.5 72.5 108.7
131 61.6 76.4 114.6#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1209

Delta R.T. 0.00 min

Lab File: VF060634.D

Acq: 7 Nov 2018 17:43

Instrument :

MSVOA_F

ClientSampleId :

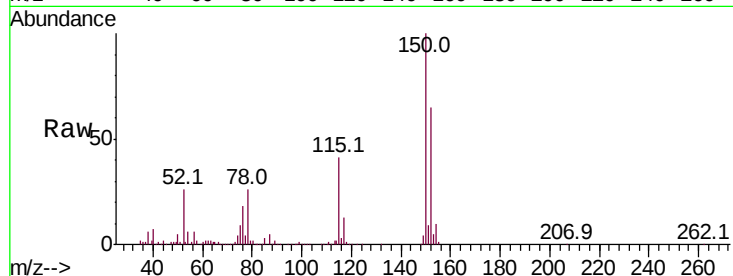
Tot Ion:152 Resp: 142150

Ion Ratio Lower Upper

152 100

115 63.0 29.6 88.8

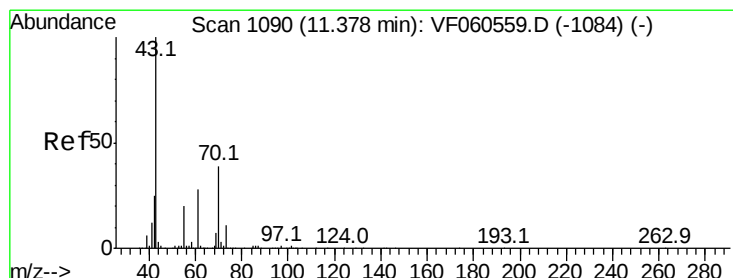
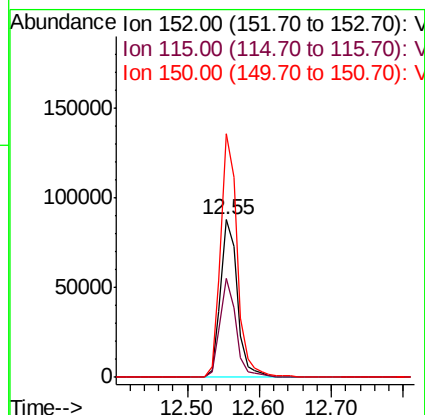
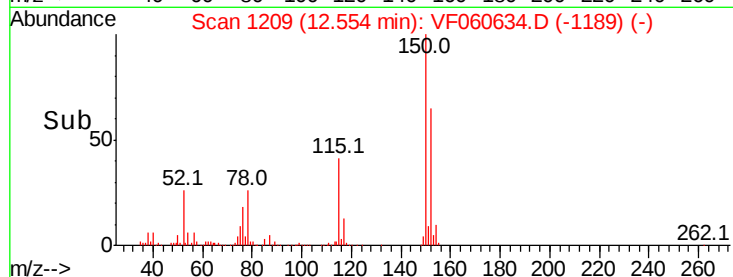
150 154.4 0.0 315.6



Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V



#74

N-amil acetate

Concen: Below Cal

RT: 11.37 min Scan# 1089

Delta R.T. -0.01 min

Lab File: VF060634.D

Acq: 7 Nov 2018 17:43

Tgt Ion: 43 Resp: 1723

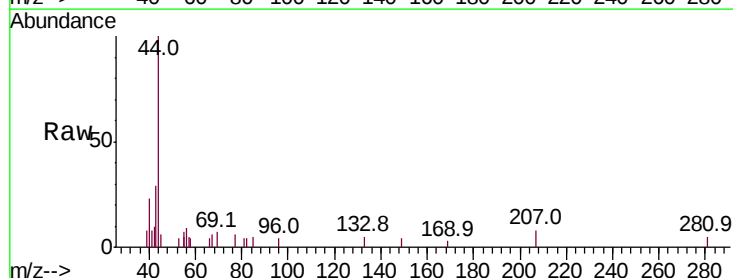
Ion Ratio Lower Upper

43 100

70 0.0 30.9 46.3#

55 40.2 16.6 24.8#

61 0.0 22.0 33.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

