

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF110518\
 Data File : VF060572.D
 Acq On : 5 Nov 2018 14:58
 Operator : VA/AP
 Sample : J5741-51
 Misc : 6.93/5mL/MSVOA-F/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Nov 05 14:23:12 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	4.86	168	259399	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.59	114	444569	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.76	117	385275	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.54	152	195854	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	118219	45.11	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	90.22%	
35) Dibromofluoromethane	4.10	113	154058	44.85	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	89.70%	
50) Toluene-d8	7.54	98	410590	40.35	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	80.70%	
62) 4-Bromofluorobenzene	11.40	95	182923	41.10	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	82.20%	

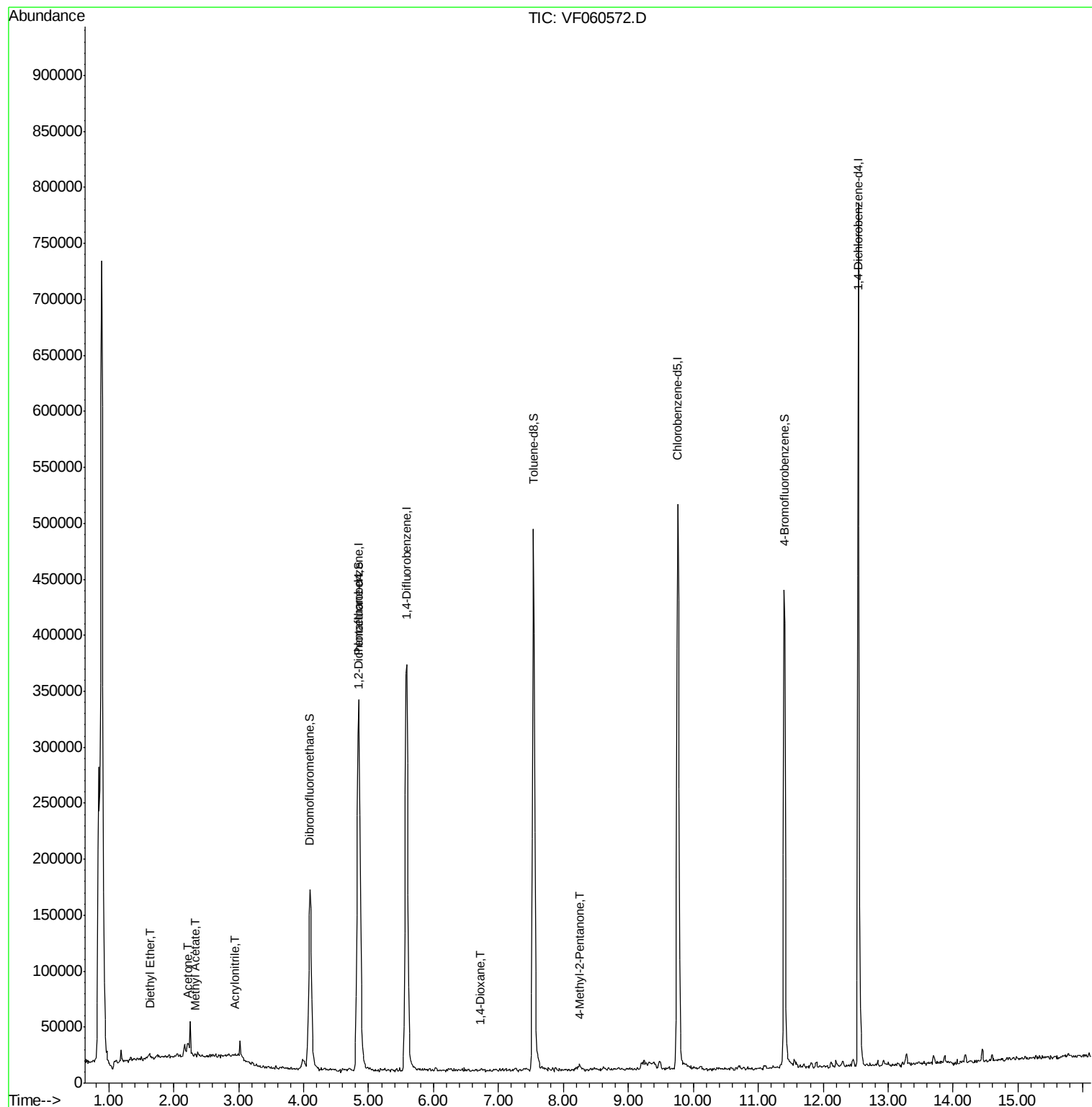
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.95	85	651	Below Cal	#	41
6) Chloroethane	1.38	64	69	Below Cal	#	1
8) Diethyl Ether	1.62	74	1664	2.293	ug/l	77
11) Tert butyl alcohol	2.57	59	440	Below Cal	#	1
13) Acrolein	2.09	56	485	Below Cal		97
15) Acrylonitrile	2.93	53	648	2.075	ug/l #	63
16) Acetone	2.23	43	12299	19.915	ug/l	94
18) Methyl Acetate	2.34	43	1404	1.929	ug/l #	64
20) Methylene Chloride	2.17	84	5037	Below Cal		93
25) 2-Butanone	4.32	43	1914	Below Cal	#	76
29) Tetrahydrofuran	4.05	42	1103	Below Cal	#	60
49) 1,4-Dioxane	6.71	88	102	5.220	ug/l #	1
51) 4-Methyl-2-Pentanone	8.25	43	6000	3.002	ug/l #	76
58) 2-Chloroethyl Vinyl ether	7.61	63	832	Below Cal		100
59) 2-Hexanone	9.47	43	8190	Below Cal		76
74) N-amyl acetate	11.36	43	3946	Below Cal	#	70
89) n-Butylbenzene	12.84	91	3251	Below Cal		77

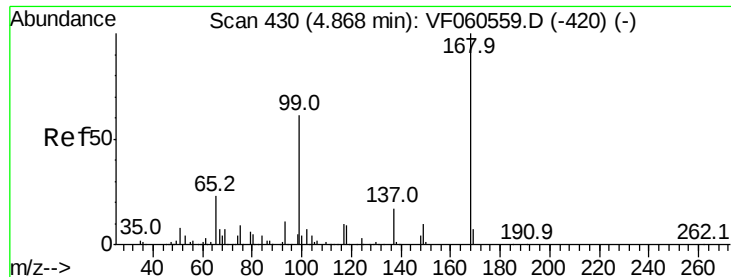
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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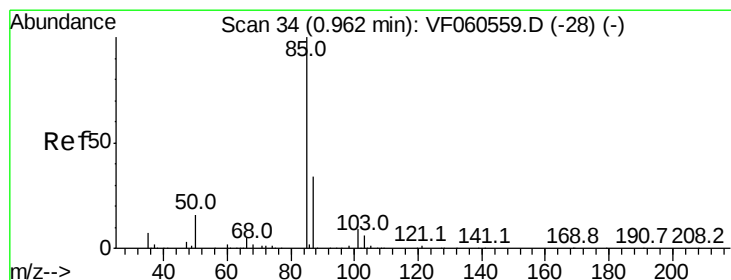
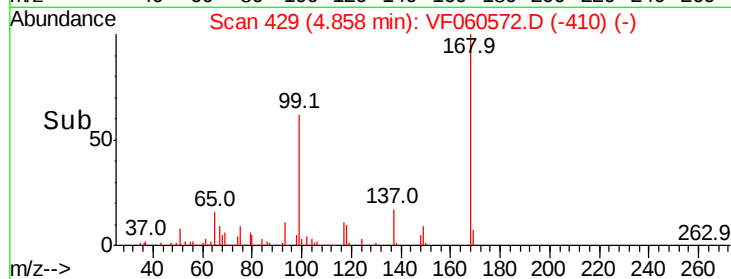
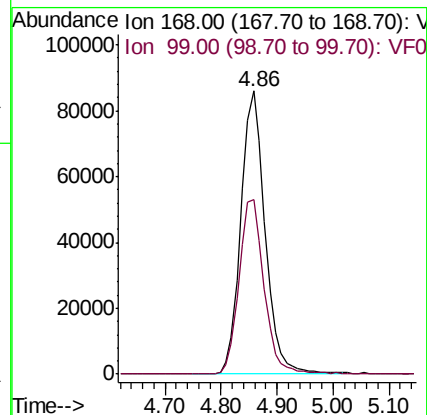
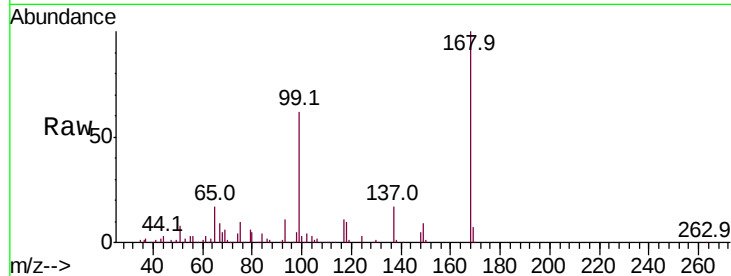


#1

Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 4.86 min Scan# 429
 Delta R.T. -0.01 min
 Lab File: VF060572.D
 Acq: 5 Nov 2018 14:58

Instrument :
 MSVOA_F
 ClientSampleId :

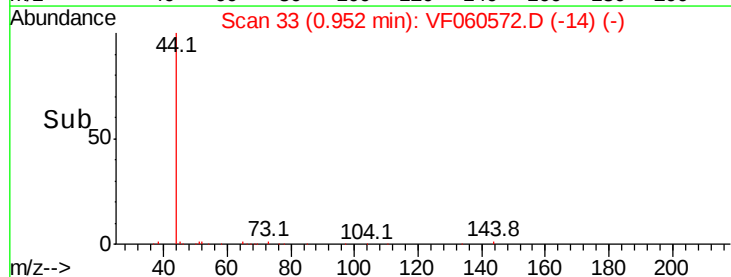
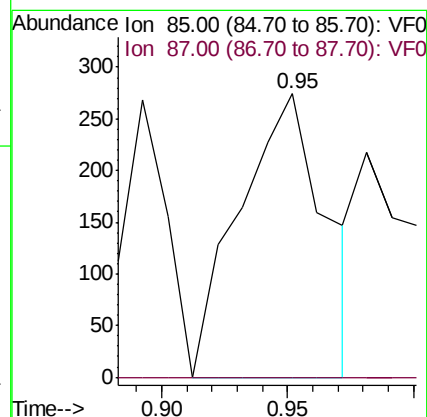
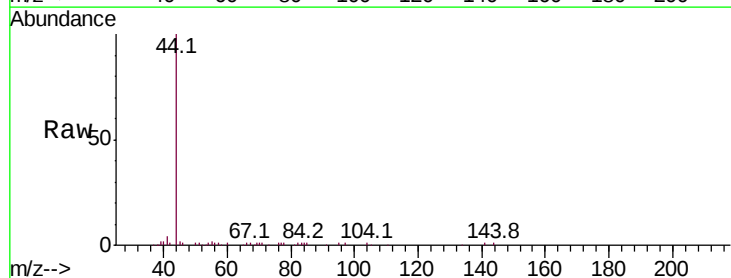
Tot Ion:168 Resp: 259399
 Ion Ratio Lower Upper
 168 100
 99 61.9 48.6 72.8

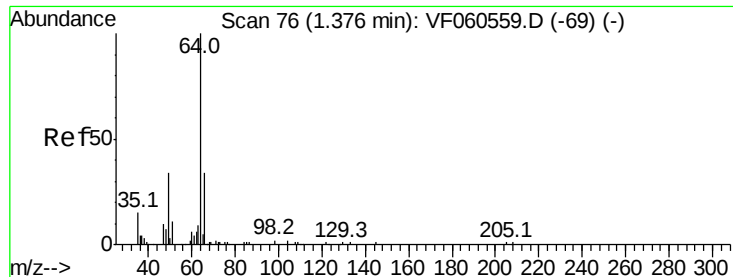


#2

Dichlorodifluoromethane
 Concen: Below Cal
 RT: 0.95 min Scan# 33
 Delta R.T. -0.01 min
 Lab File: VF060572.D
 Acq: 5 Nov 2018 14:58

Tgt Ion: 85 Resp: 651
 Ion Ratio Lower Upper
 85 100
 87 0.0 16.9 50.7#





#6

Chloroethane

Concen: Below Cal

RT: 1.38 min Scan# 76

Delta R.T. 0.00 min

Lab File: VF060572.D

Acq: 5 Nov 2018 14:58

Instrument :

MSVOA_F

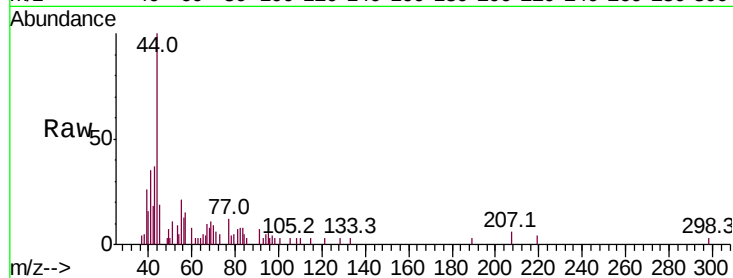
ClientSampleId :

Tot Ion: 64 Resp: 69

Ion Ratio Lower Upper

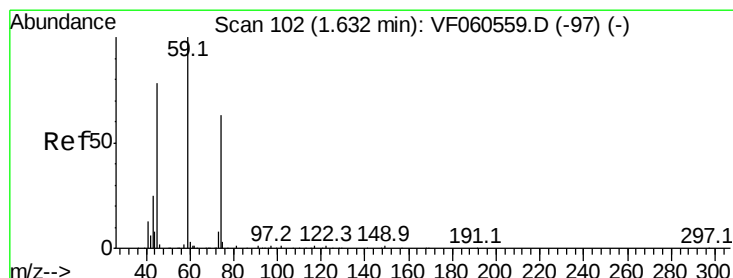
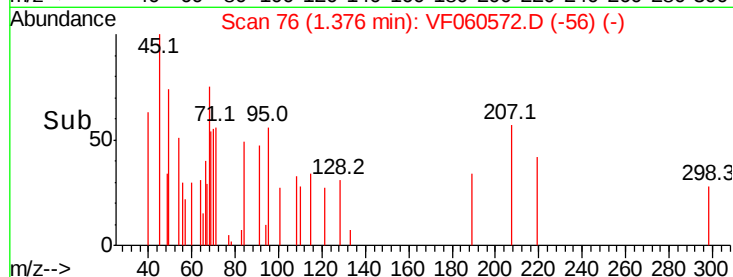
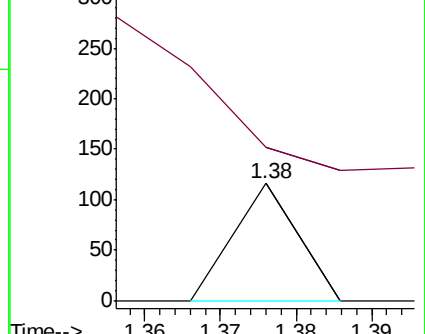
64 100

66 131.0 27.8 41.8#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0



#8

Diethyl Ether

Concen: 2.293 ug/l

RT: 1.62 min Scan# 101

Delta R.T. -0.01 min

Lab File: VF060572.D

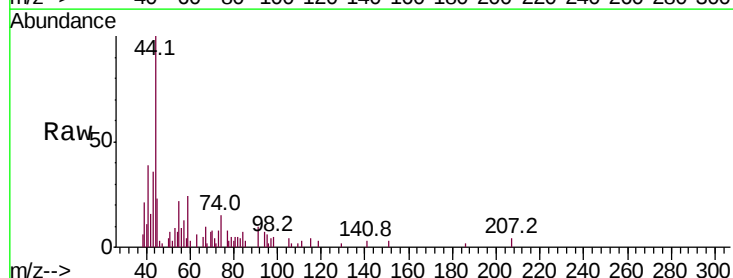
Acq: 5 Nov 2018 14:58

Tgt Ion: 74 Resp: 1664

Ion Ratio Lower Upper

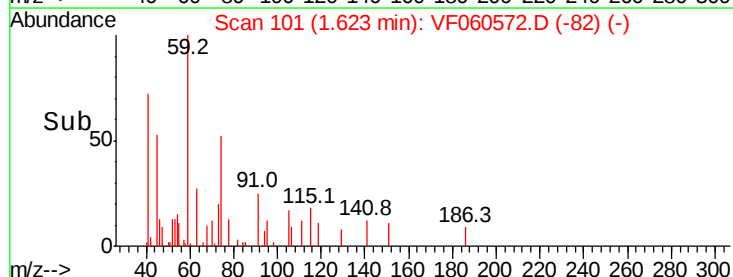
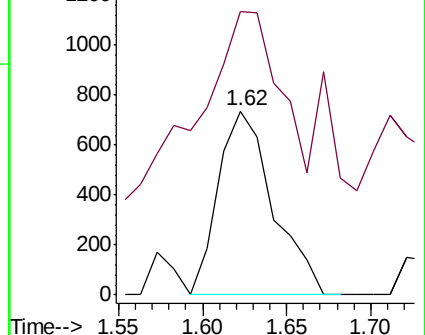
74 100

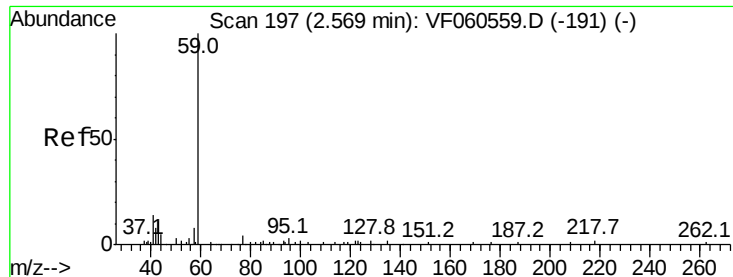
45 153.7 63.8 191.5



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

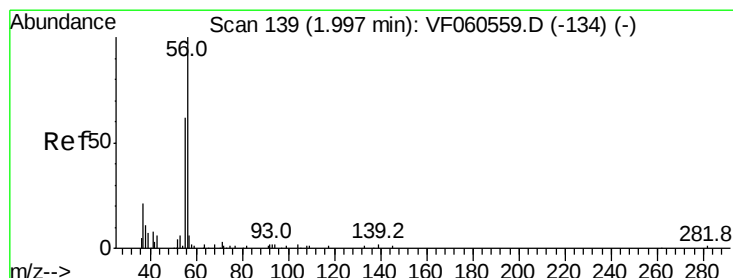
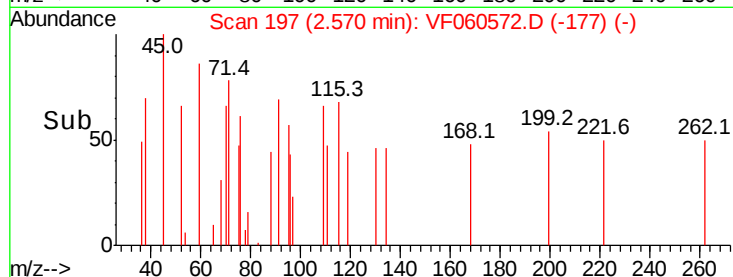
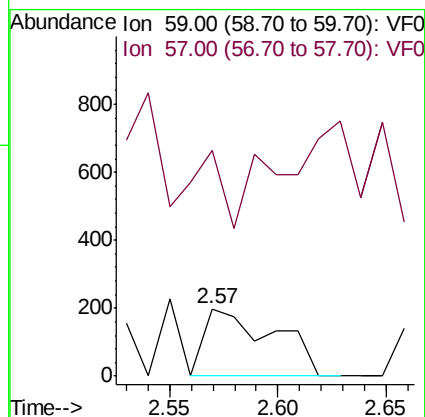
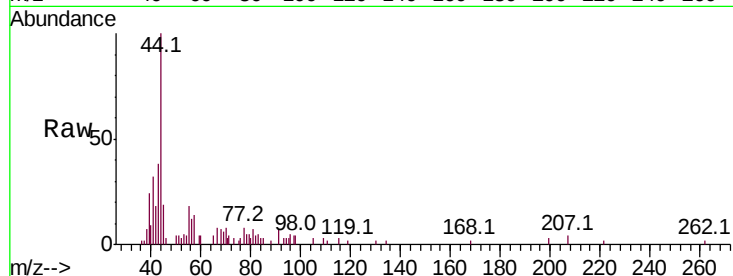




#11
Tert butyl alcohol
Concen: Below Cal
RT: 2.57 min Scan# 197
Delta R.T. 0.00 min
Lab File: VF060572.D
Acq: 5 Nov 2018 14:58

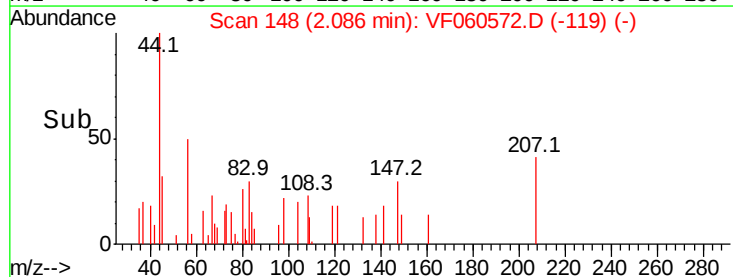
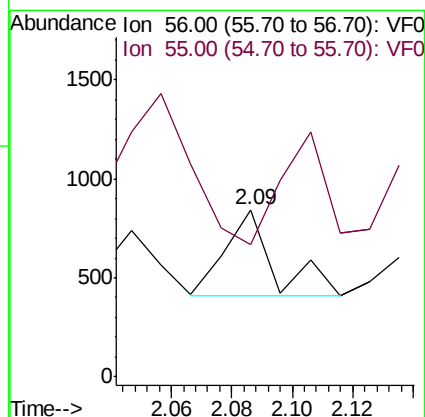
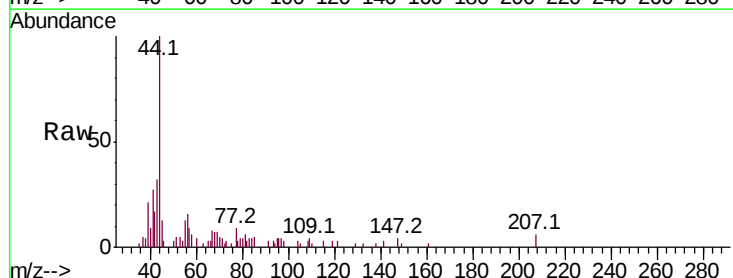
Instrument :
MSVOA_F
ClientSampleId :

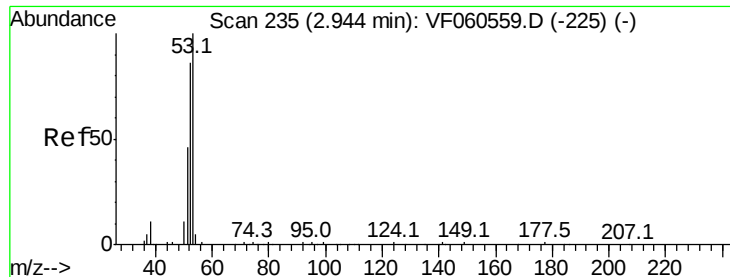
Tot Ion: 59 Resp: 440
Ion Ratio Lower Upper
59 100
57 334.2 19.0 28.4#



#13
Acrolein
Concen: Below Cal
RT: 2.09 min Scan# 148
Delta R.T. 0.09 min
Lab File: VF060572.D
Acq: 5 Nov 2018 14:58

Tgt Ion: 56 Resp: 485
Ion Ratio Lower Upper
56 100
55 79.5 61.8 92.6





#15

Acrylonitrile

Concen: 2.075 ug/l

RT: 2.93 min Scan# 234

Delta R.T. -0.01 min

Lab File: VF060572.D

Acq: 5 Nov 2018 14:58

Instrument :
MSVOA_F
ClientSampled :

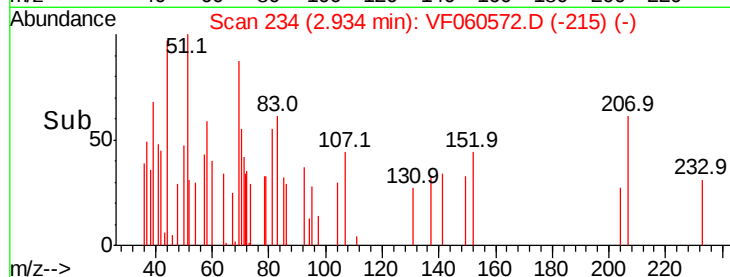
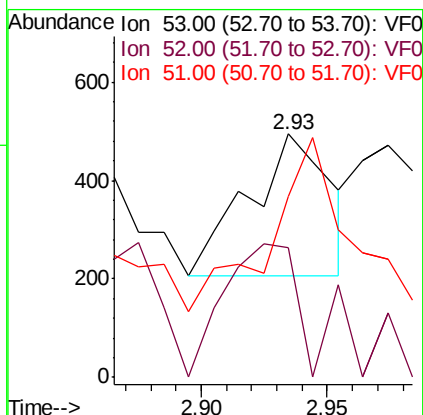
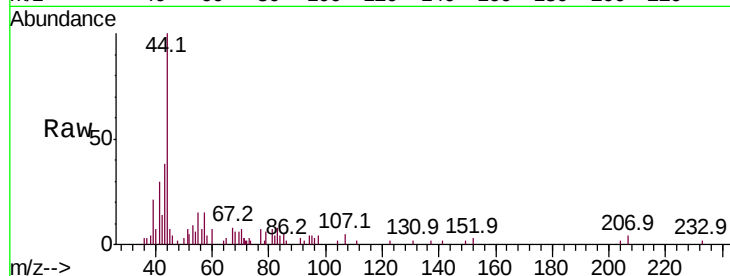
Tot Ion: 53 Resp: 648

Ion Ratio Lower Upper

53 100

52 53.1 68.5 102.7#

51 74.3 38.2 57.2#



#16

Acetone

Concen: 19.915 ug/l

RT: 2.23 min Scan# 163

Delta R.T. 0.00 min

Lab File: VF060572.D

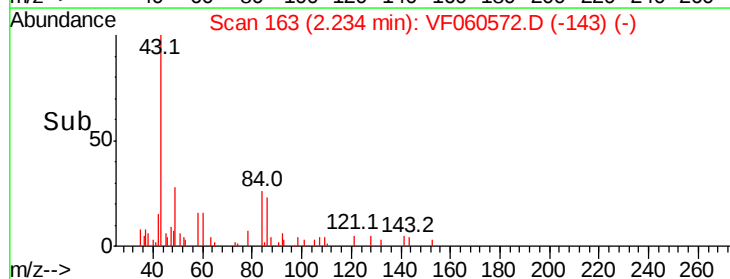
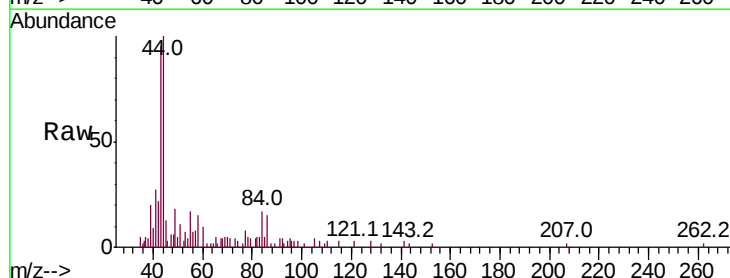
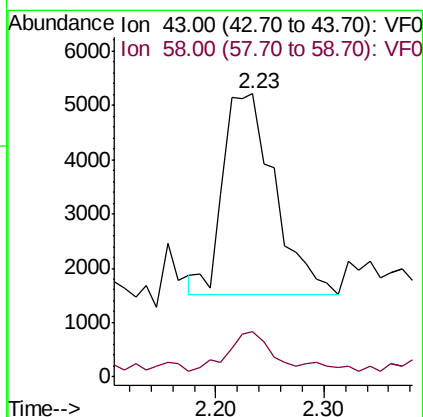
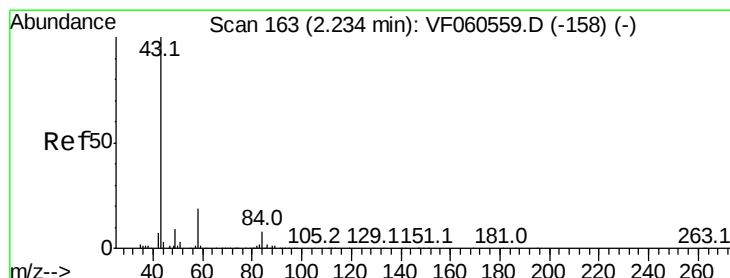
Acq: 5 Nov 2018 14:58

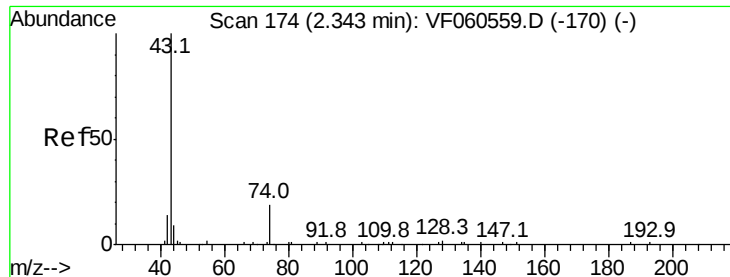
Tgt Ion: 43 Resp: 12299

Ion Ratio Lower Upper

43 100

58 15.8 14.6 22.0

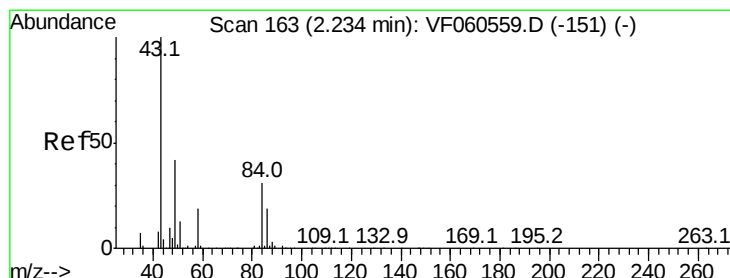
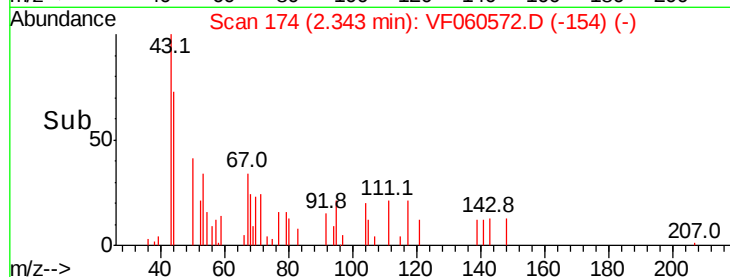
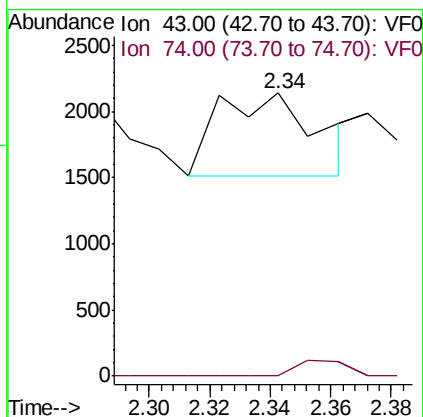
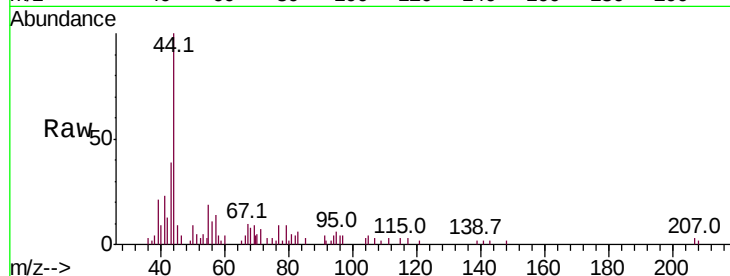




#18
Methyl Acetate
Concen: 1.929 ug/l
RT: 2.34 min Scan# 174
Delta R.T. 0.00 min
Lab File: VF060572.D
Acq: 5 Nov 2018 14:58

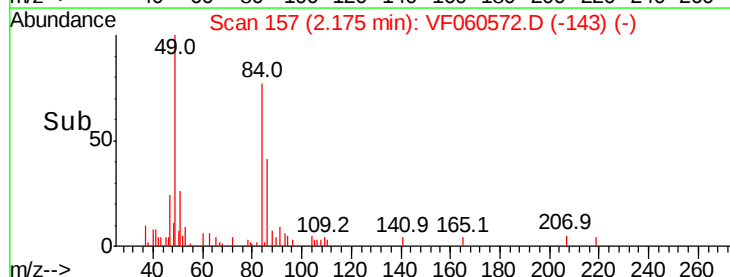
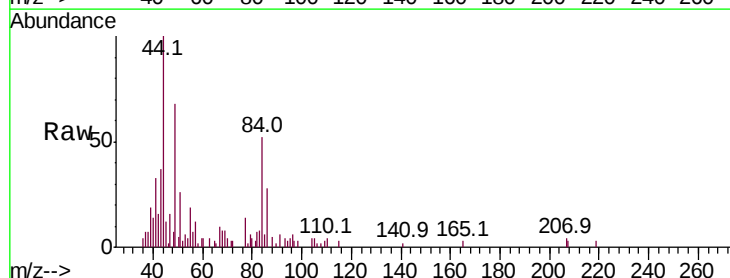
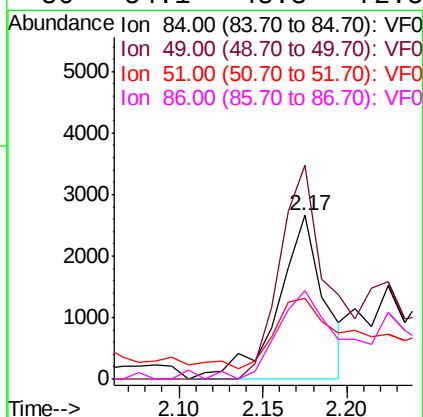
Instrument :
MSVOA_F
ClientSampled :

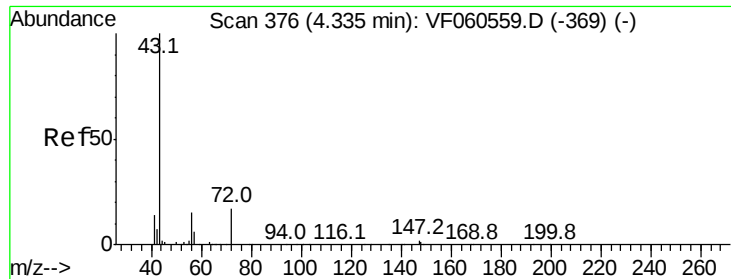
Tot Ion: 43 Resp: 1404
Ion Ratio Lower Upper
43 100
74 0.0 12.1 18.1#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.17 min Scan# 157
Delta R.T. -0.06 min
Lab File: VF060572.D
Acq: 5 Nov 2018 14:58

Tgt Ion: 84 Resp: 5037
Ion Ratio Lower Upper
84 100
49 130.5 109.9 164.9
51 49.3 35.8 53.8
86 54.1 48.3 72.5





#25

2-Butanone

Concen: Below Cal

RT: 4.32 min Scan# 374

Delta R.T. -0.02 min

Lab File: VF060572.D

Acq: 5 Nov 2018 14:58

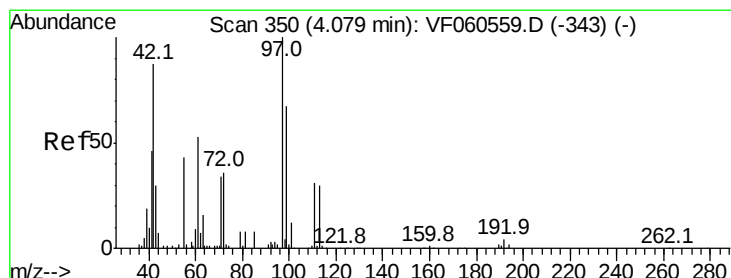
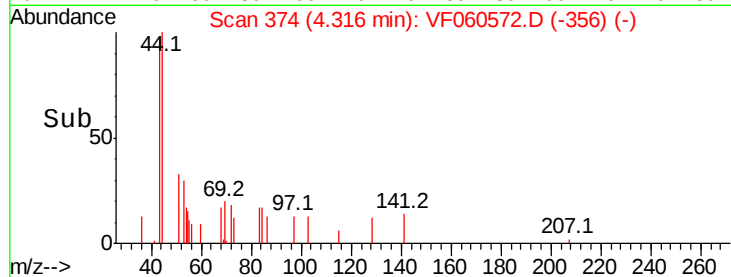
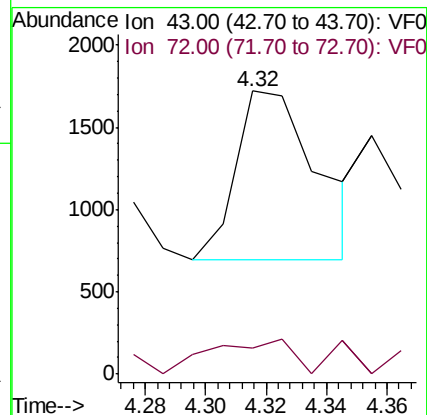
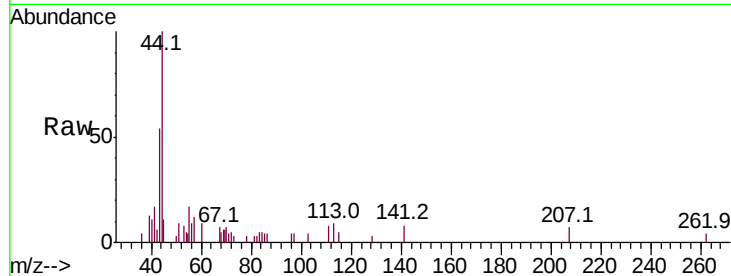
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 1914

Ion Ratio Lower Upper

43 100

72 9.2 16.2 24.2#



#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.05 min Scan# 347

Delta R.T. -0.03 min

Lab File: VF060572.D

Acq: 5 Nov 2018 14:58

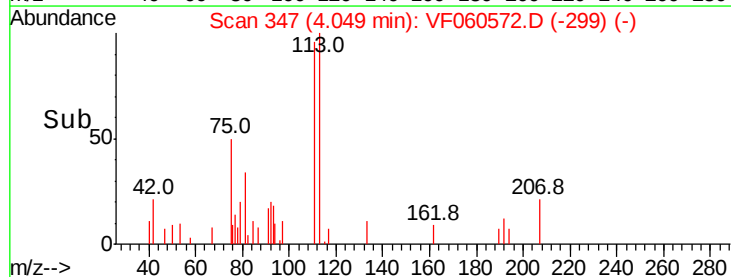
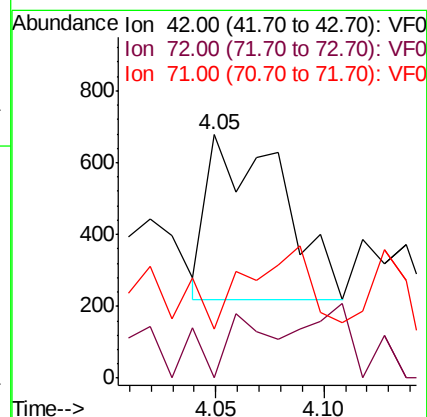
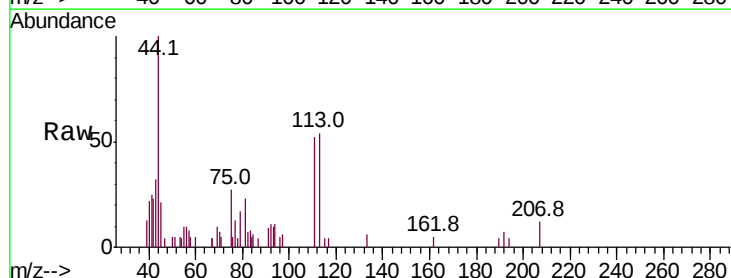
Tgt Ion: 42 Resp: 1103

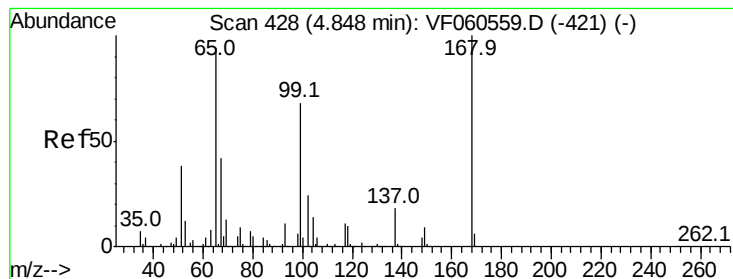
Ion Ratio Lower Upper

42 100

72 30.0 31.4 47.0#

71 0.0 31.8 47.6#





#33

1,2-Dichloroethane-d4

Concen: 45.106 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.02 min

Lab File: VF060572.D

Acq: 5 Nov 2018 14:58

Instrument :

MSVOA_F

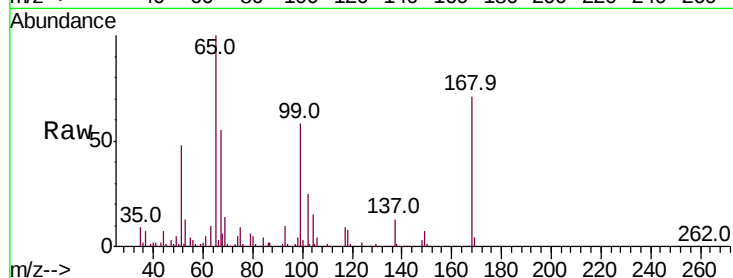
ClientSampleId :

Tot Ion: 65 Resp: 118219

Ion Ratio Lower Upper

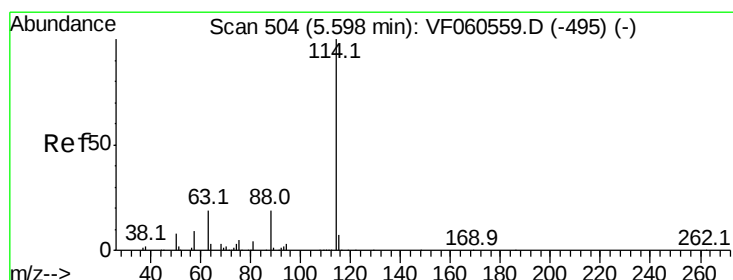
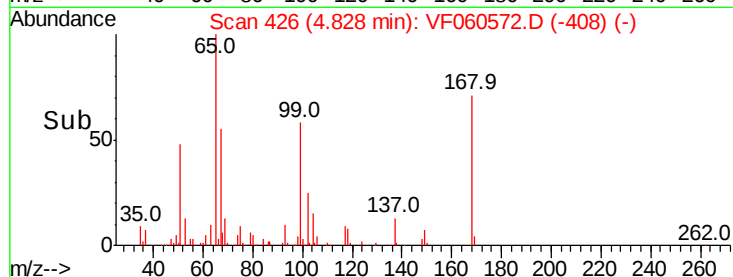
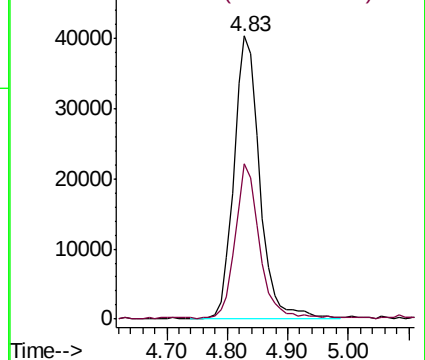
65 100

67 55.0 0.0 101.8



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.01 min

Lab File: VF060572.D

Acq: 5 Nov 2018 14:58

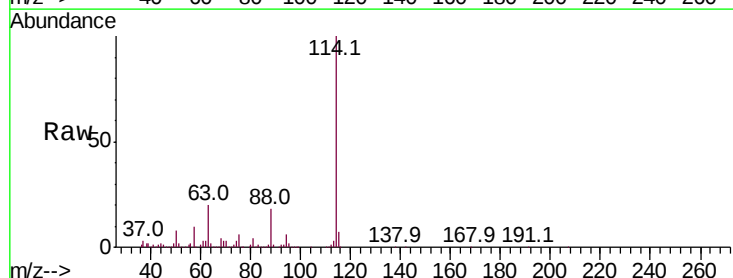
Tgt Ion: 114 Resp: 444569

Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.0

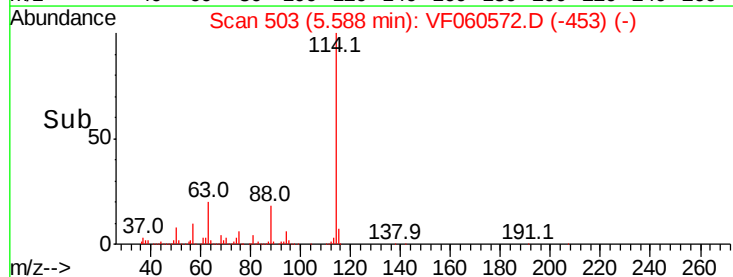
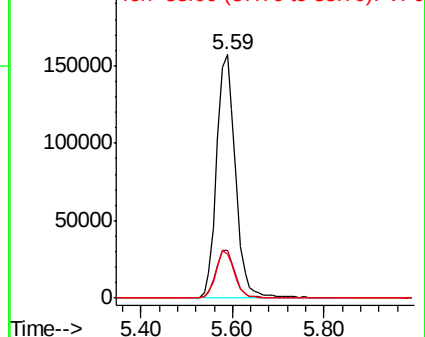
88 18.1 0.0 38.2

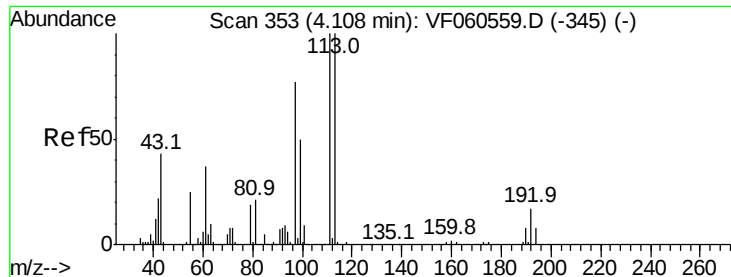


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0





#35

Dibromofluoromethane

Concen: 44.853 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.01 min

Lab File: VF060572.D

Acq: 5 Nov 2018 14:58

Instrument :
MSVOA_F
ClientSampleId :

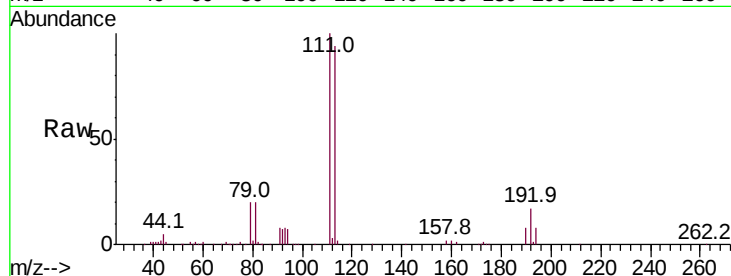
Tot Ion:113 Resp: 154058

Ion Ratio Lower Upper

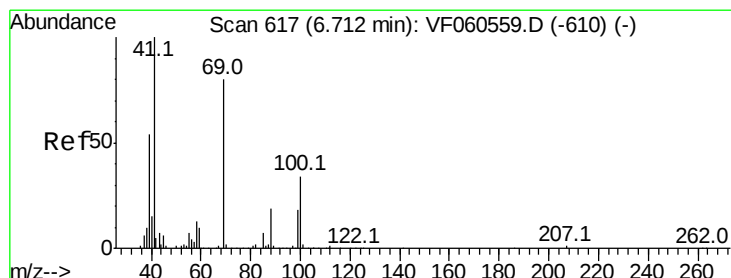
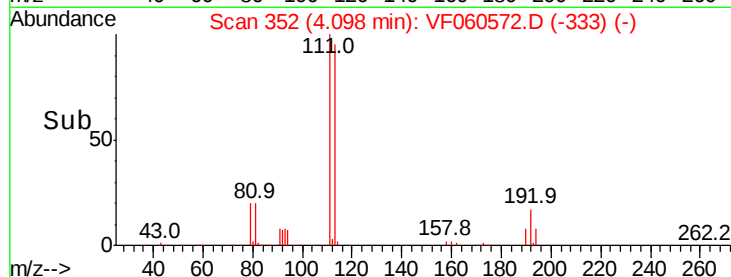
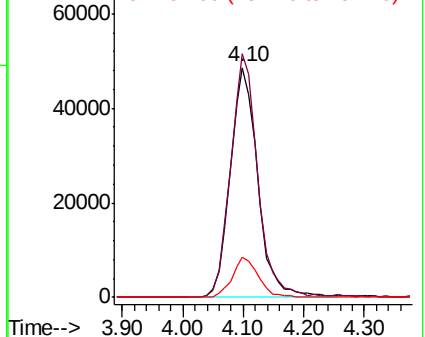
113 100

111 105.9 79.9 119.9

192 17.6 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: 5.220 ug/l

RT: 6.71 min Scan# 617

Delta R.T. 0.00 min

Lab File: VF060572.D

Acq: 5 Nov 2018 14:58

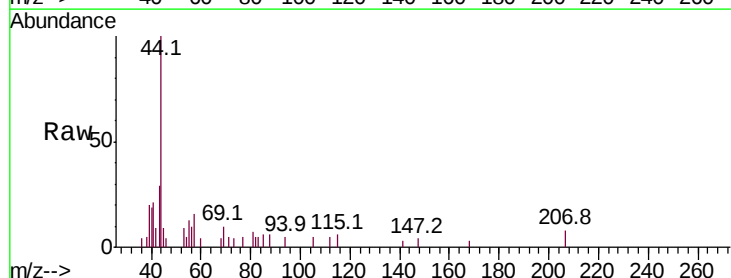
Tgt Ion: 88 Resp: 102

Ion Ratio Lower Upper

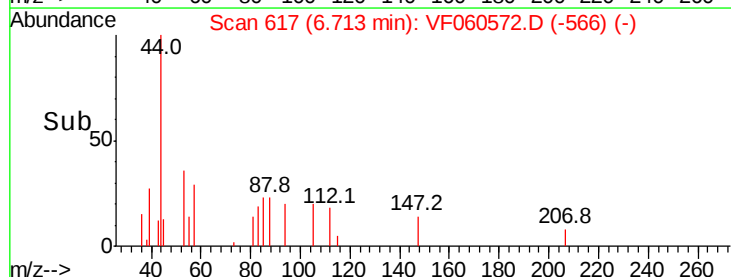
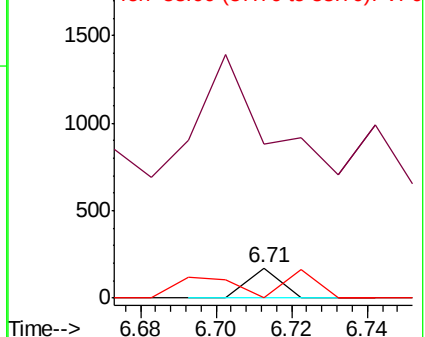
88 100

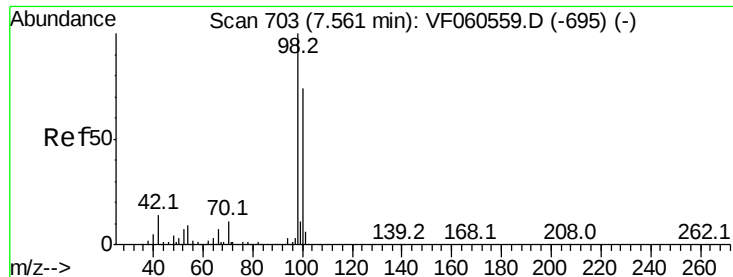
43 508.1 61.2 91.8#

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

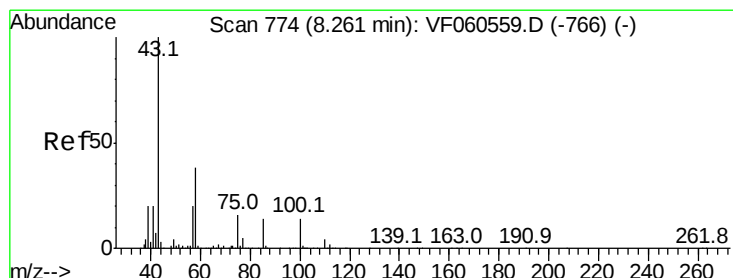
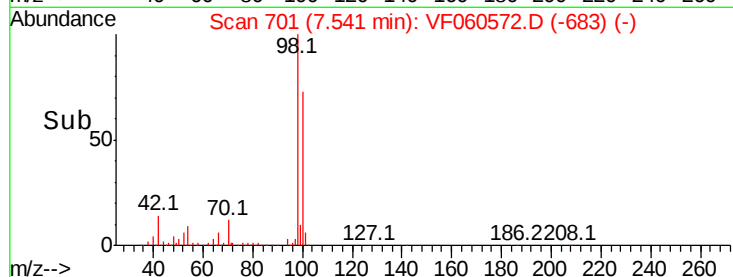
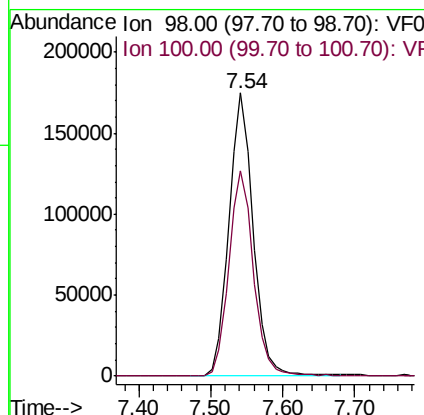
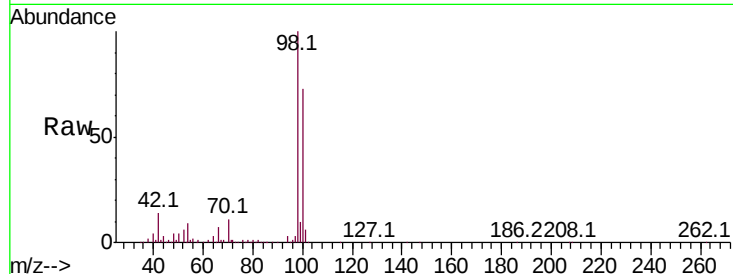




#50
Toluene-d8
Concen: 40.354 ug/l
RT: 7.54 min Scan# 701
Delta R.T. -0.02 min
Lab File: VF060572.D
Acq: 5 Nov 2018 14:58

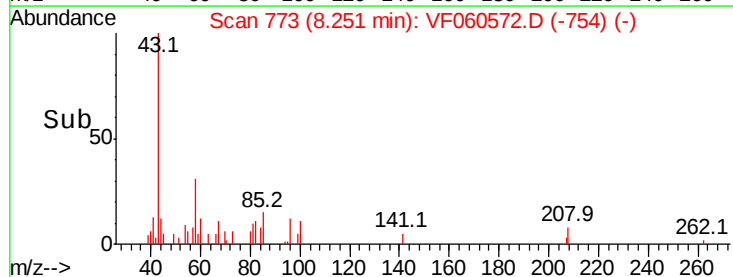
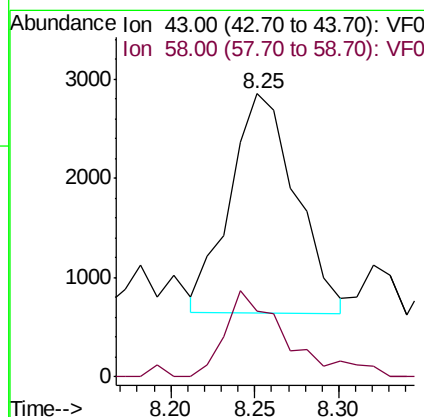
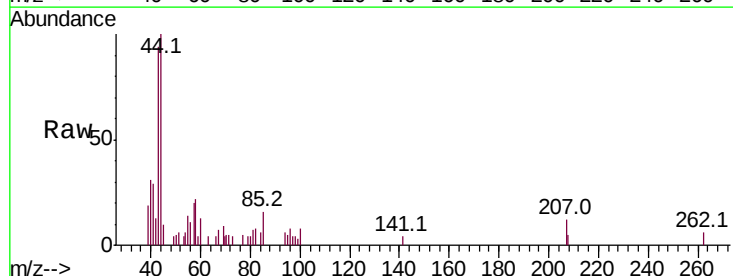
Instrument :
MSVOA_F
ClientSampleId :

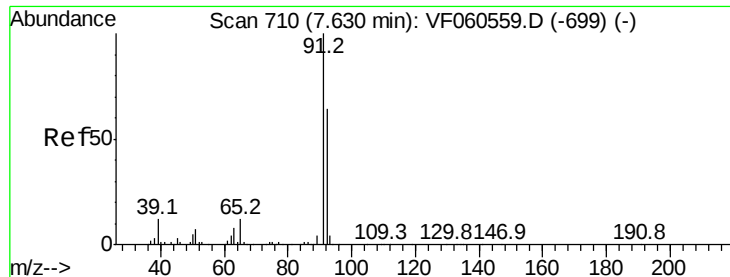
Tot Ion: 98 Resp: 410590
Ion Ratio Lower Upper
98 100
100 72.6 59.4 89.2



#51
4-Methyl-2-Pentanone
Concen: 3.002 ug/l
RT: 8.25 min Scan# 773
Delta R.T. -0.01 min
Lab File: VF060572.D
Acq: 5 Nov 2018 14:58

Tgt Ion: 43 Resp: 6000
Ion Ratio Lower Upper
43 100
58 23.3 30.1 45.1#





#58

2-Chloroethyl Vinyl ether

Concen: Below Cal

RT: 7.61 min Scan# 708

Delta R.T. -0.02 min

Lab File: VF060572.D

Acq: 5 Nov 2018 14:58

Instrument :

MSVOA_F

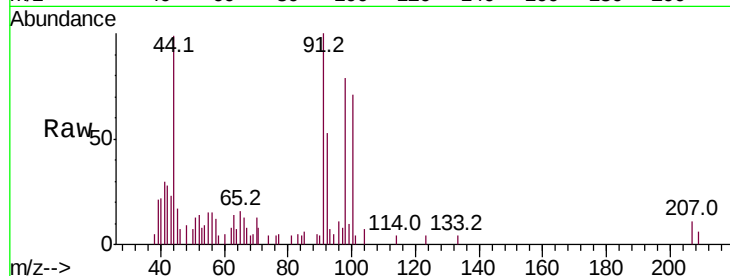
ClientSampleId :

Tot Ion: 63 Resp: 832

Ion Ratio Lower Upper

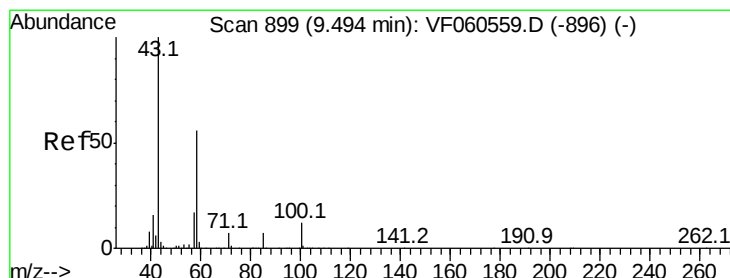
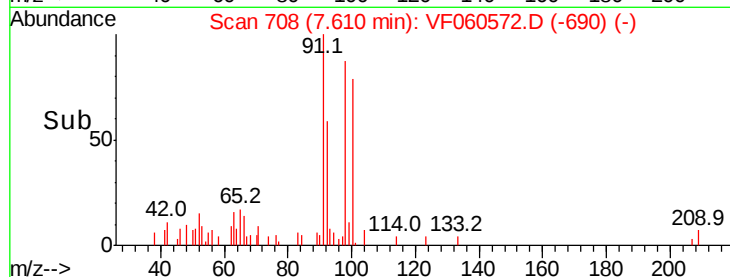
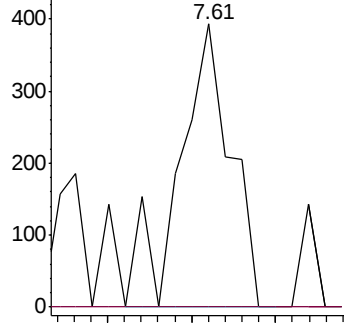
63 100

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: 9.47 min Scan# 897

Delta R.T. -0.02 min

Lab File: VF060572.D

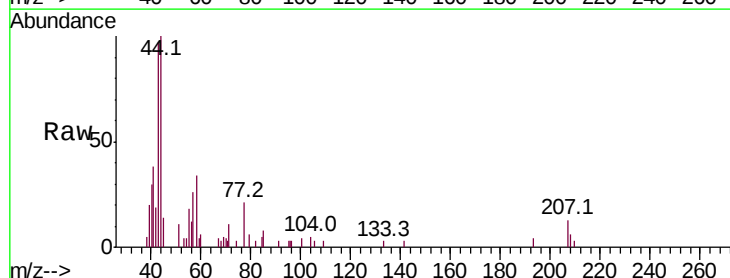
Acq: 5 Nov 2018 14:58

Tgt Ion: 43 Resp: 8190

Ion Ratio Lower Upper

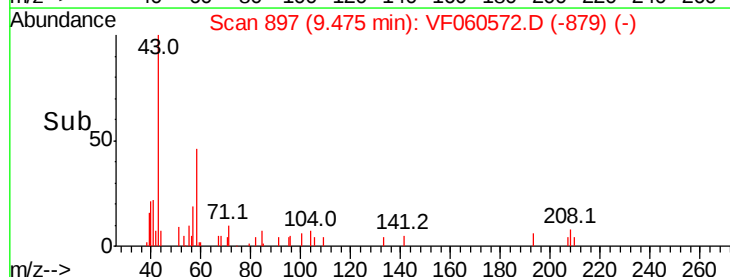
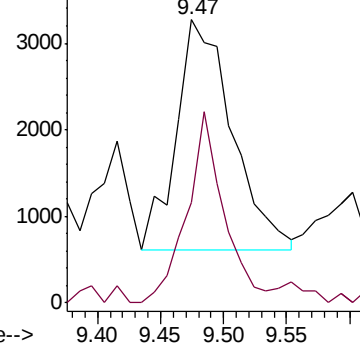
43 100

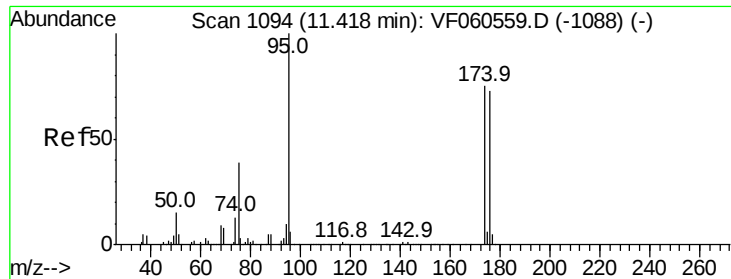
58 35.4 26.1 78.3



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

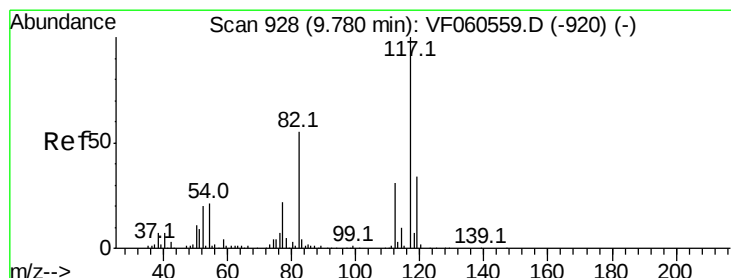
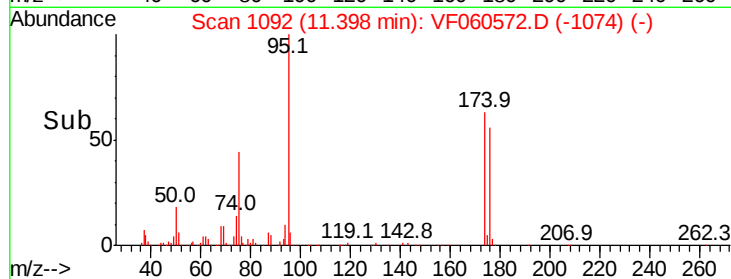
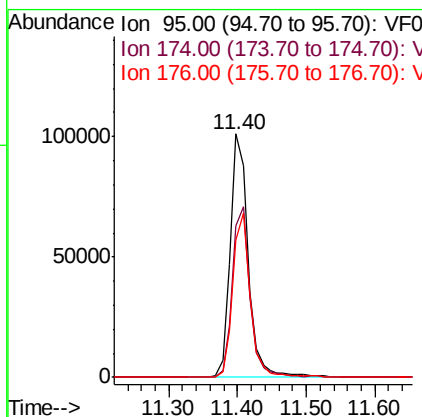
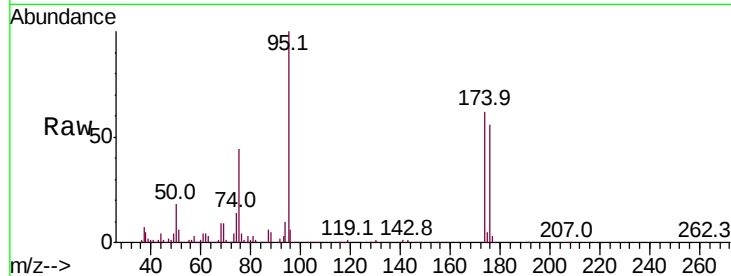




#62
4-Bromofluorobenzene
Concen: 41.101 ug/l
RT: 11.40 min Scan# 1092
Delta R.T. -0.02 min
Lab File: VF060572.D
Acq: 5 Nov 2018 14:58

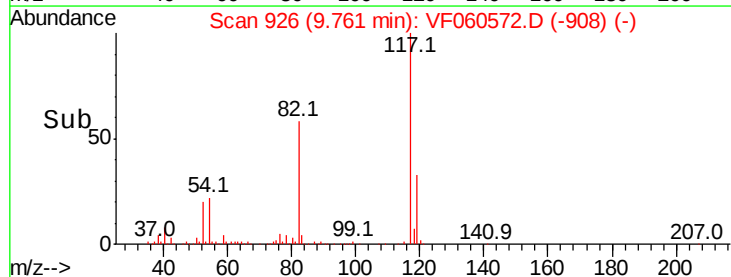
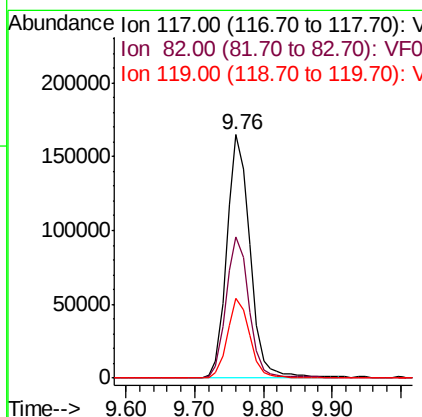
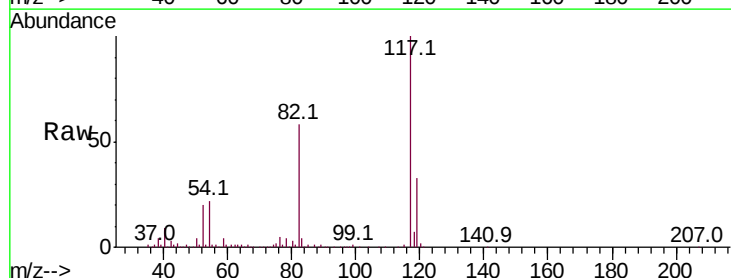
Instrument :
MSVOA_F
ClientSampled :

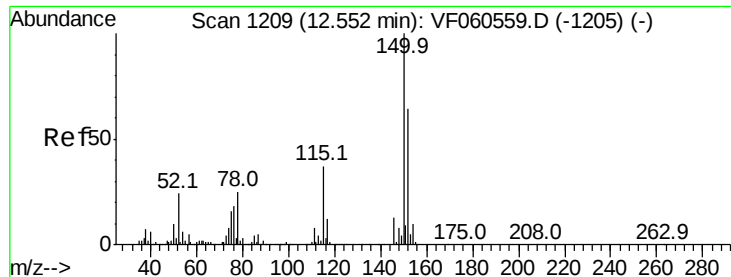
Tot Ion: 95 Resp: 182923
Ion Ratio Lower Upper
95 100
174 62.4 0.0 149.0
176 56.3 0.0 145.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 926
Delta R.T. -0.02 min
Lab File: VF060572.D
Acq: 5 Nov 2018 14:58

Tgt Ion: 117 Resp: 385275
Ion Ratio Lower Upper
117 100
82 58.1 43.9 65.9
119 33.0 27.4 41.0



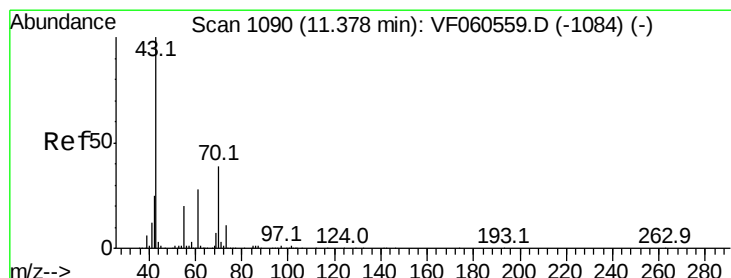
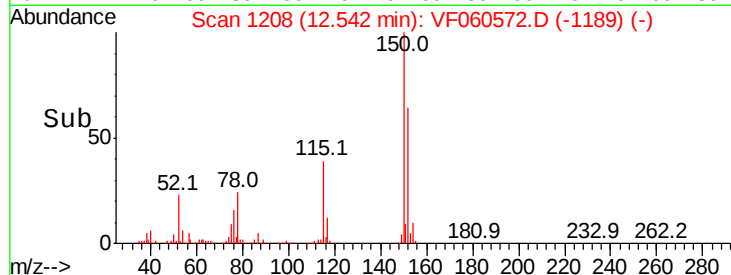
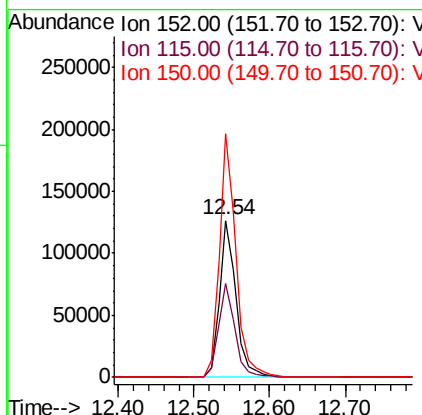
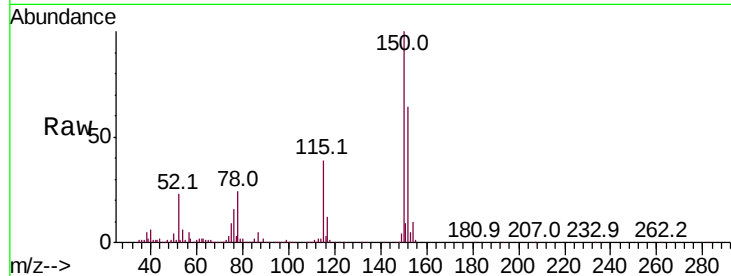


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1208
Delta R.T. -0.01 min
Lab File: VF060572.D
Acq: 5 Nov 2018 14:58

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	59.9	29.6	88.8
150	155.1	0.0	315.6



#74

N-ethyl acetate
Concen: Below Cal
RT: 11.36 min Scan# 1088
Delta R.T. -0.02 min
Lab File: VF060572.D
Acq: 5 Nov 2018 14:58

Tgt Ion	Ratio	Lower	Upper
43	100		
70	17.5	30.9	46.3#
55	34.9	16.6	24.8#
61	16.0	22.0	33.0#

