

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF111518\
 Data File : VF060753.D
 Acq On : 15 Nov 2018 18:16
 Operator : VA/AP
 Sample : J5942-05
 Misc : 5.84g/5mL/MSVOA-F/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Nov 16 04:38:02 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F111318S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 14 03:11:14 2018
 Response via : Initial Calibration

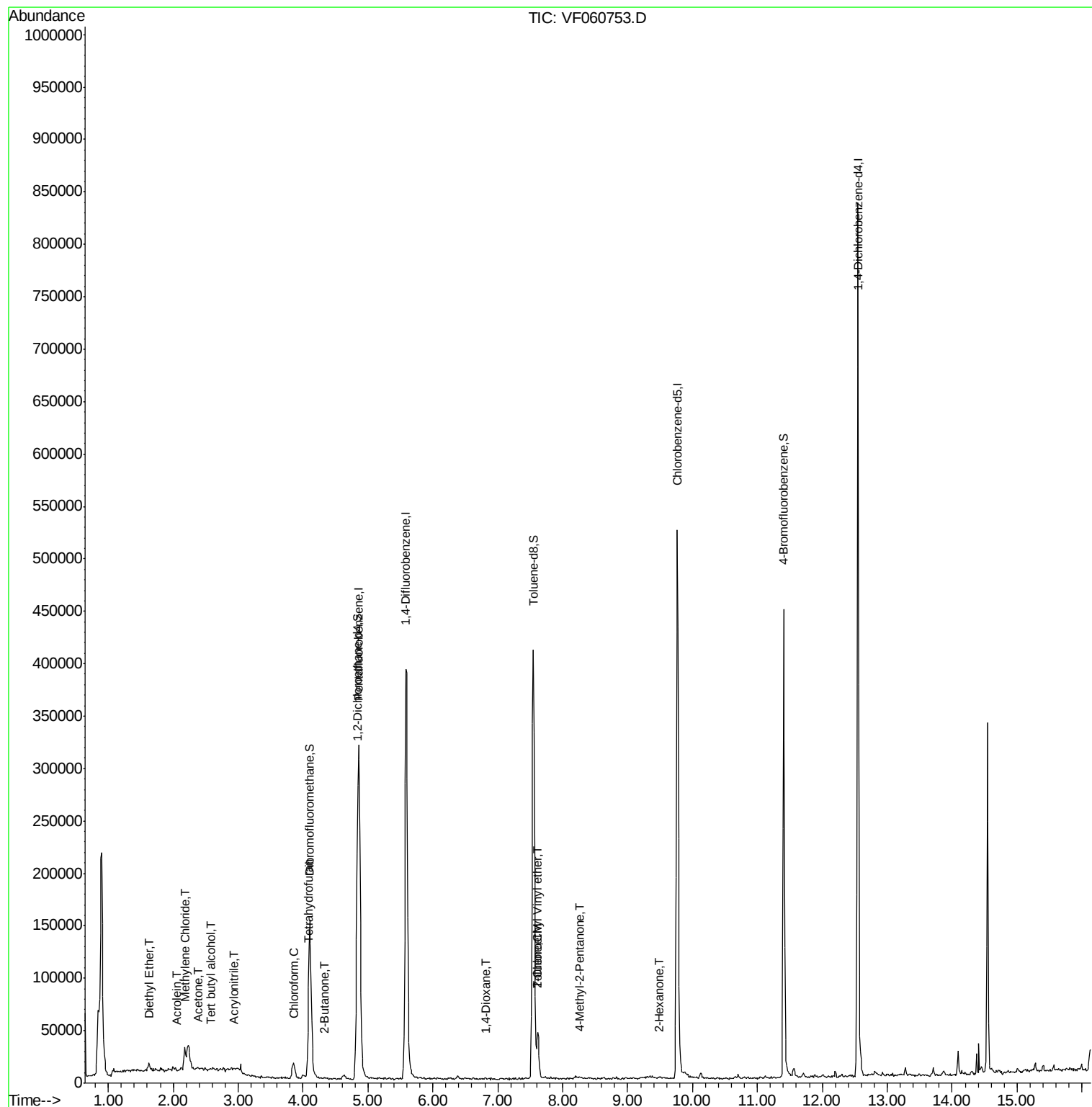
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	253465	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	5.59	114	453160	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.77	117	387721	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.55	152	216422	50.00	ug/l	-0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.83	65	114346	39.55	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	79.10%	
35) Dibromofluoromethane	4.10	113	141287	41.48	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	82.96%	
50) Toluene-d8	7.55	98	348373	39.05	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	78.10%	
62) 4-Bromofluorobenzene	11.40	95	161867	39.29	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	78.58%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	1.63	74	2393	3.356	ug/l	99
11) Tert butyl alcohol	2.57	59	776	5.898	ug/l #	13
13) Acrolein	2.06	56	522	4.339	ug/l	88
15) Acrylonitrile	2.92	53	468	1.669	ug/l #	66
16) Acetone	2.38	43	882	1.427	ug/l	96
20) Methylene Chloride	2.18	84	9237	1.736	ug/l	96
25) 2-Butanone	4.33	43	1179	1.160	ug/l #	56
29) Tetrahydrofuran	4.07	42	1118	2.667	ug/l #	58
30) Chloroform	3.86	83	18139	2.670	ug/l	87
41) Methacrylonitrile	4.75	41	457	Below Cal	#	66
49) 1,4-Dioxane	6.82	88	68	4.241	ug/l #	1
51) 4-Methyl-2-Pentanone	8.27	43	2223	1.186	ug/l #	61
52) Toluene	7.62	92	22578	2.876	ug/l	97
58) 2-Chloroethyl Vinyl ether	7.62	63	3377	14.511	ug/l	100
59) 2-Hexanone	9.49	43	2024	1.537	ug/l	71

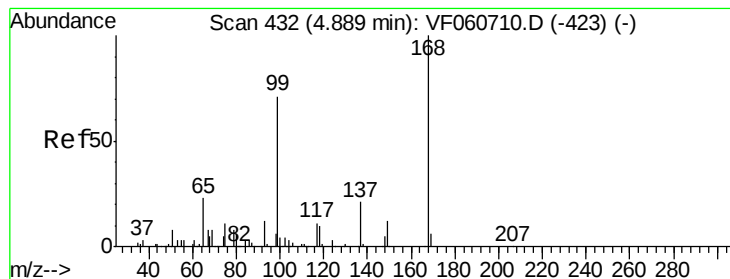
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Nov 14 03:11:14 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.03 min

Lab File: VF060753.D

Acq: 15 Nov 2018 18:16

Instrument :

MSVOA_F

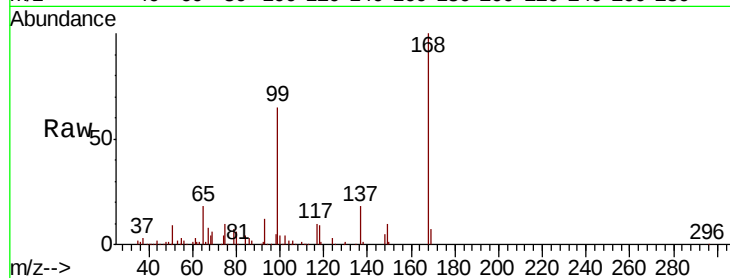
ClientSampleId :

Tot Ion:168 Resp: 253465

Ion Ratio Lower Upper

168 100

99 64.6 57.2 85.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

80000

60000

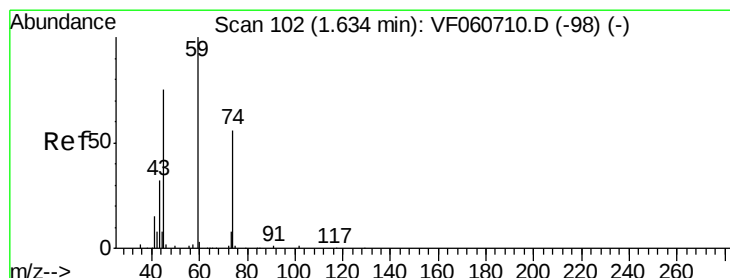
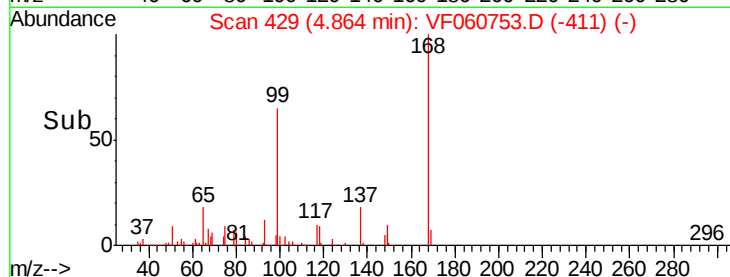
40000

20000

0

4.70 4.80 4.90 5.00 5.10

Time-->



#8

Diethyl Ether

Concen: 3.356 ug/l

RT: 1.63 min Scan# 101

Delta R.T. -0.01 min

Lab File: VF060753.D

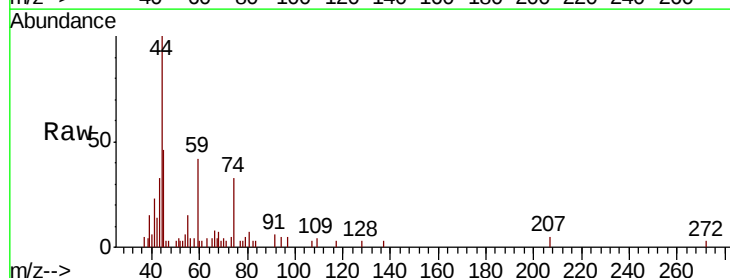
Acq: 15 Nov 2018 18:16

Tgt Ion: 74 Resp: 2393

Ion Ratio Lower Upper

74 100

45 136.8 67.7 203.1



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

2000

1500

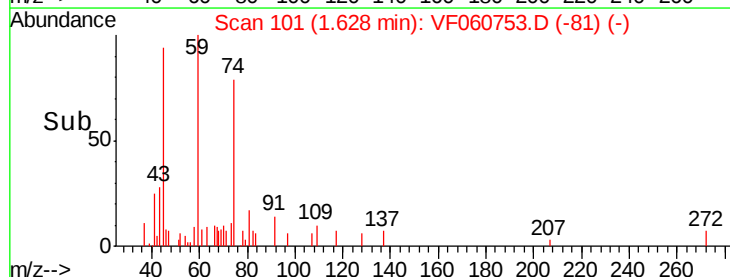
1000

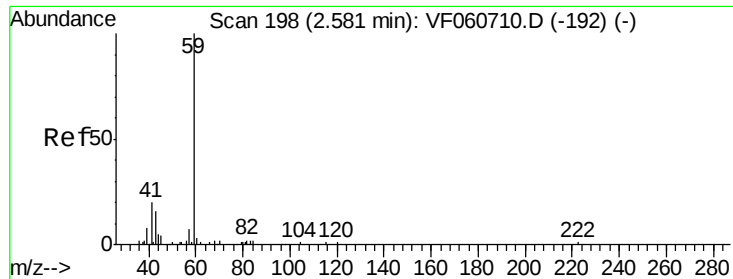
500

0

1.55 1.60 1.65 1.70

Time-->

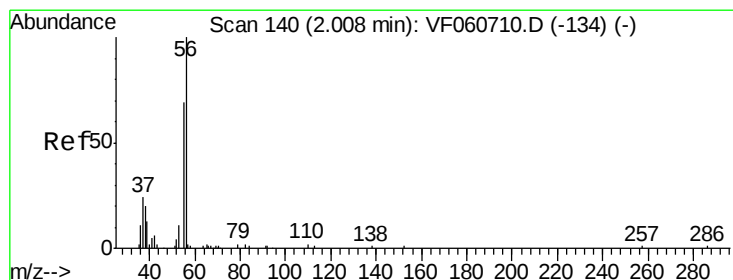
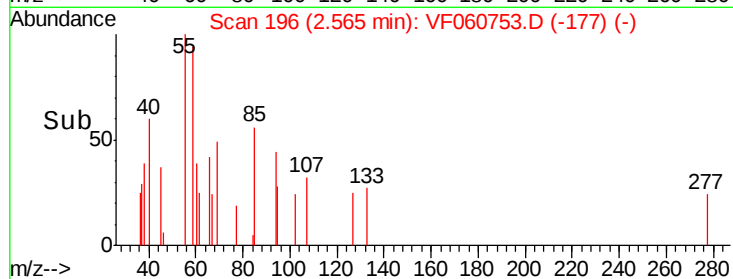
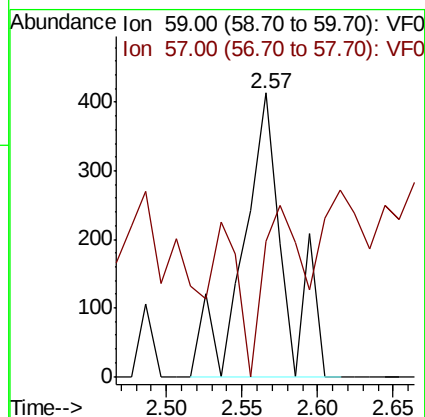
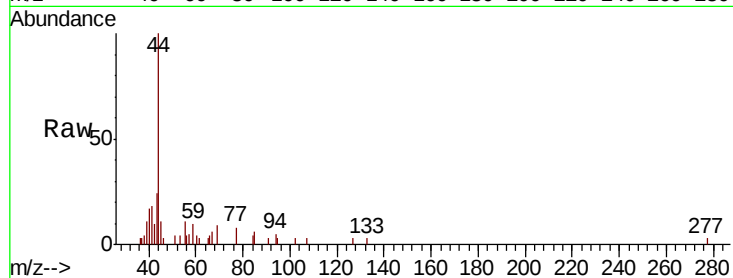




#11
Tert butyl alcohol
Concen: 5.898 ug/l
RT: 2.57 min Scan# 196
Delta R.T. -0.02 min
Lab File: VF060753.D
Acq: 15 Nov 2018 18:16

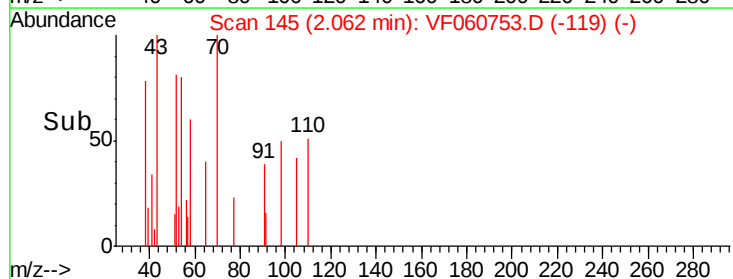
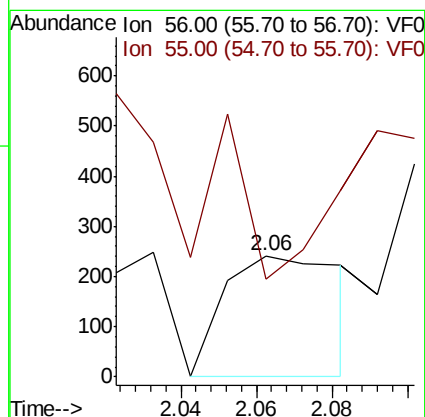
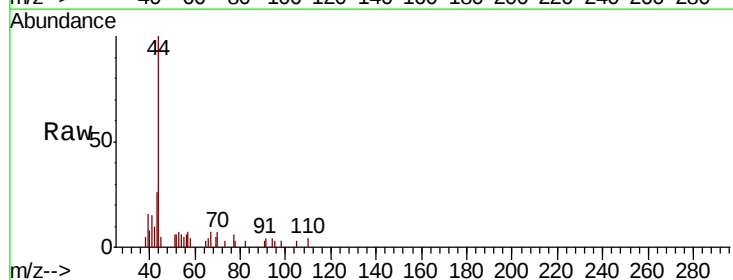
Instrument :
MSVOA_F
ClientSampled :

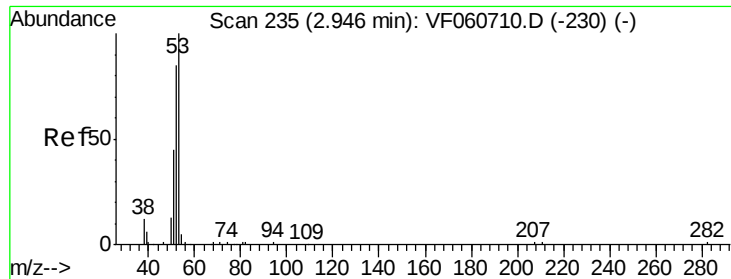
Tot Ion: 59 Resp: 776
Ion Ratio Lower Upper
59 100
57 47.9 10.5 15.7#



#13
Acrolein
Concen: 4.339 ug/l
RT: 2.06 min Scan# 145
Delta R.T. 0.05 min
Lab File: VF060753.D
Acq: 15 Nov 2018 18:16

Tgt Ion: 56 Resp: 522
Ion Ratio Lower Upper
56 100
55 80.6 56.6 85.0





#15

Acrylonitrile

Concen: 1.669 ug/l

RT: 2.92 min Scan# 232

Delta R.T. -0.02 min

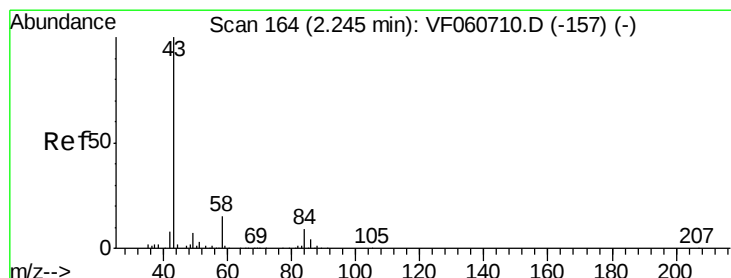
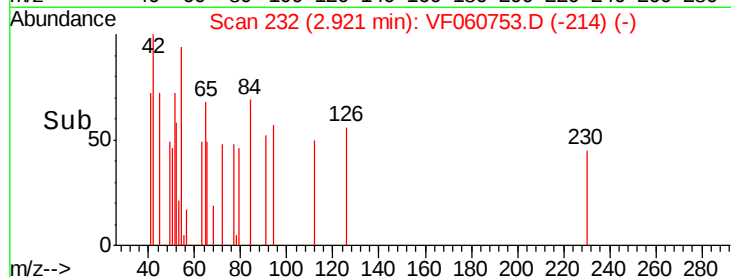
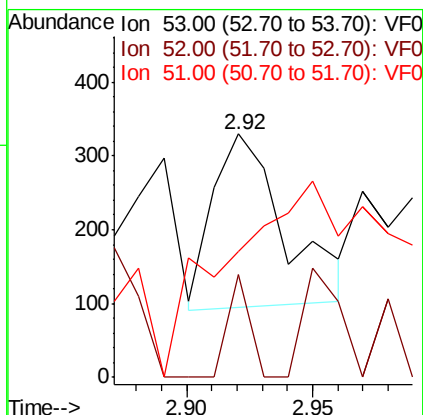
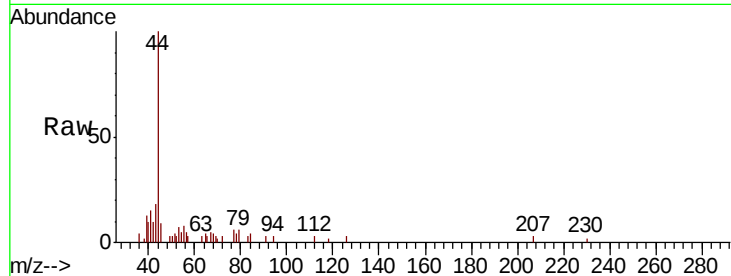
Lab File: VF060753.D

Acq: 15 Nov 2018 18:16

Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 53 Resp: 468

Ion	Ratio	Lower	Upper
53	100		
52	42.1	68.8	103.2#
51	51.8	36.7	55.1



#16

Acetone

Concen: 1.427 ug/l

RT: 2.38 min Scan# 177

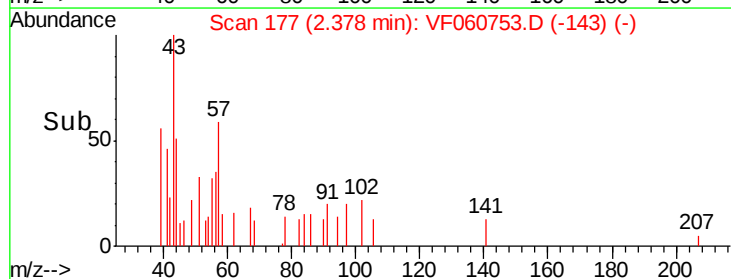
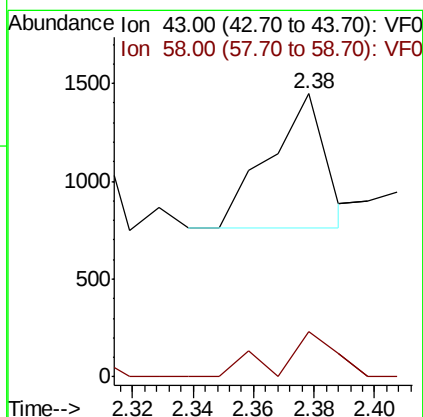
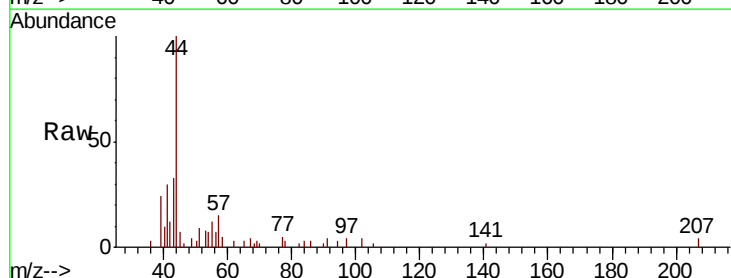
Delta R.T. 0.13 min

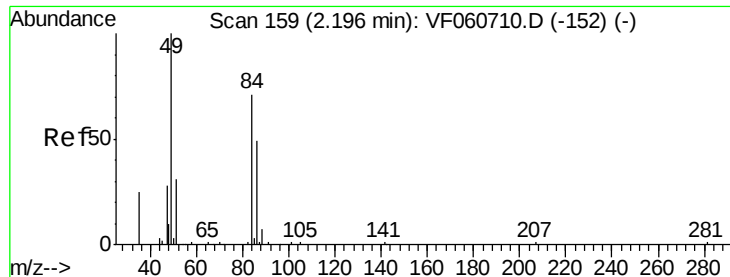
Lab File: VF060753.D

Acq: 15 Nov 2018 18:16

Tgt Ion: 43 Resp: 882

Ion	Ratio	Lower	Upper
43	100		
58	16.2	11.6	17.4

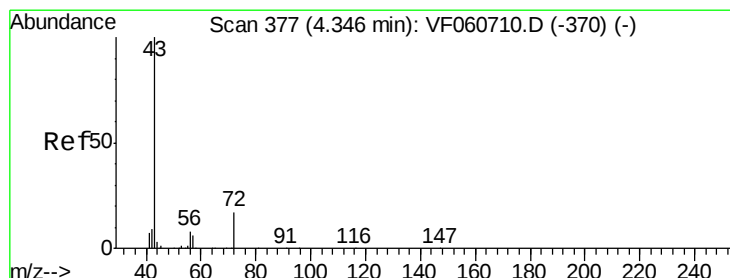
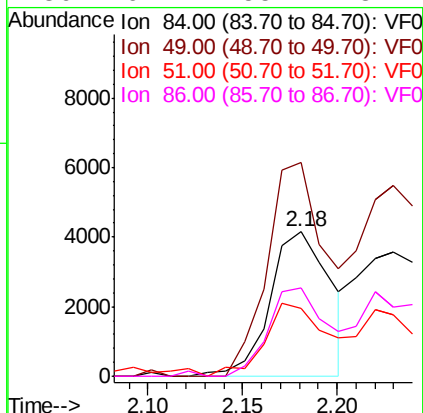
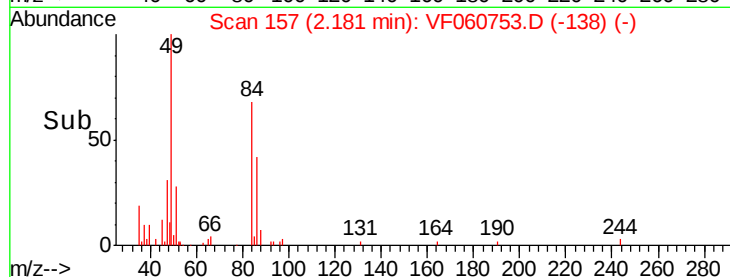
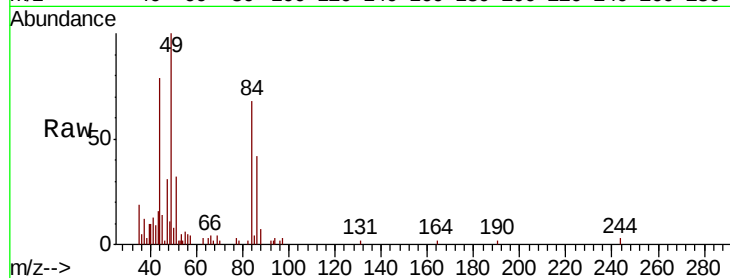




#20
Methvlene Chloride
Concen: 1.736 ug/l
RT: 2.18 min Scan# 157
Delta R.T. -0.01 min
Lab File: VF060753.D
Acq: 15 Nov 2018 18:16

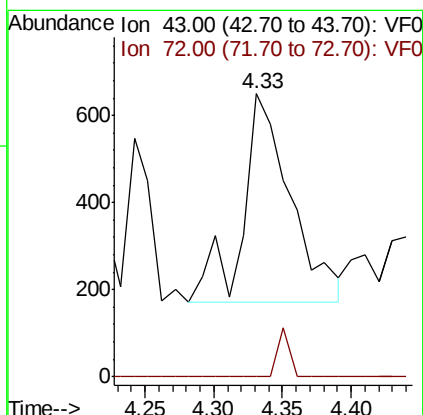
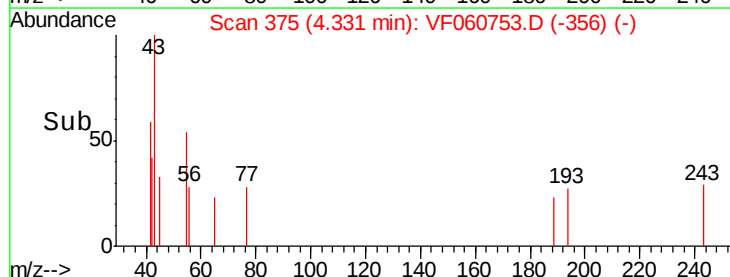
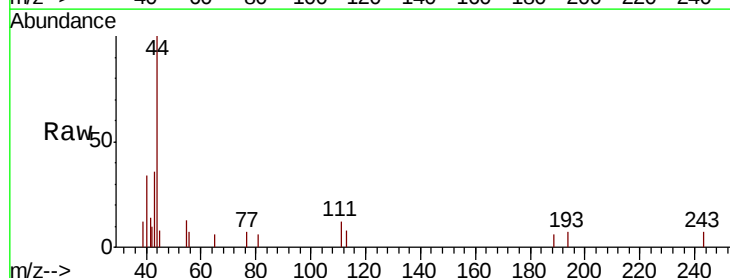
Instrument :
MSVOA_F
ClientSampled :

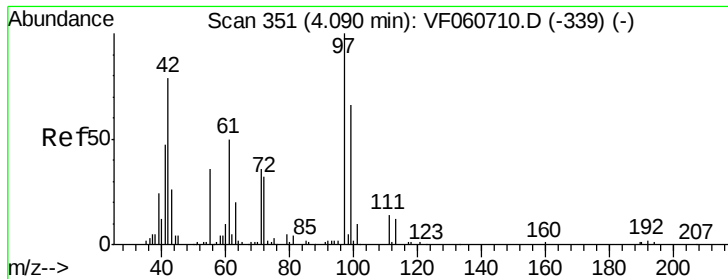
Tot Ion: 84 Resp: 9237
Ion Ratio Lower Upper
84 100
49 148.0 120.2 180.4
51 47.4 37.2 55.8
86 61.7 55.1 82.7



#25
2-Butanone
Concen: 1.160 ug/l
RT: 4.33 min Scan# 375
Delta R.T. -0.02 min
Lab File: VF060753.D
Acq: 15 Nov 2018 18:16

Tgt Ion: 43 Resp: 1179
Ion Ratio Lower Upper
43 100
72 0.0 16.1 24.1#

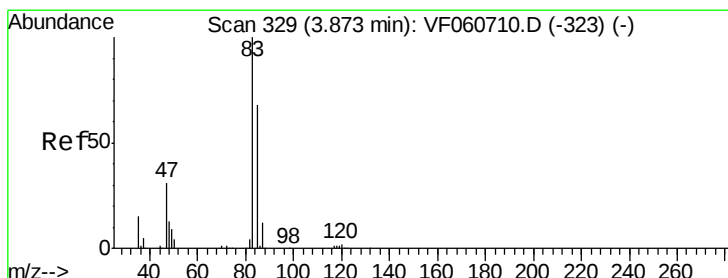
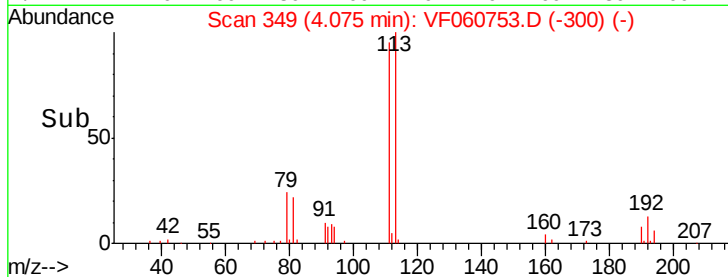
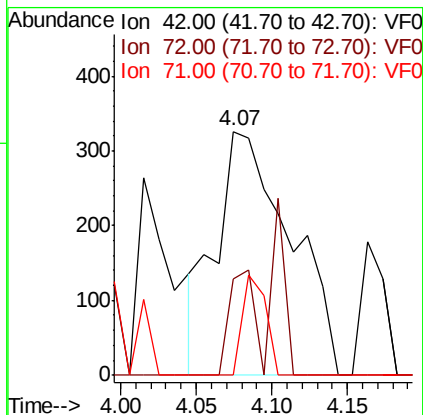
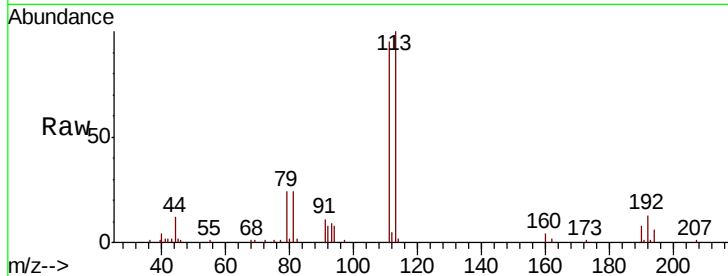




#29
Tetrahydrofuran
Concen: 2.667 ug/l
RT: 4.07 min Scan# 349
Delta R.T. -0.02 min
Lab File: VF060753.D
Acq: 15 Nov 2018 18:16

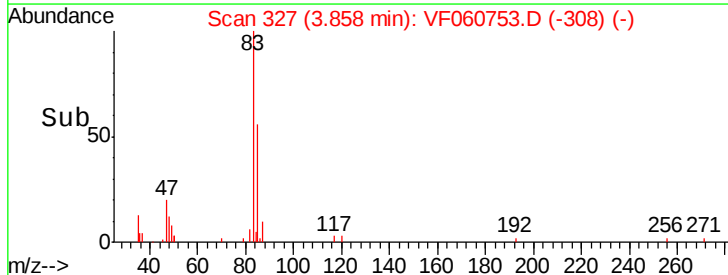
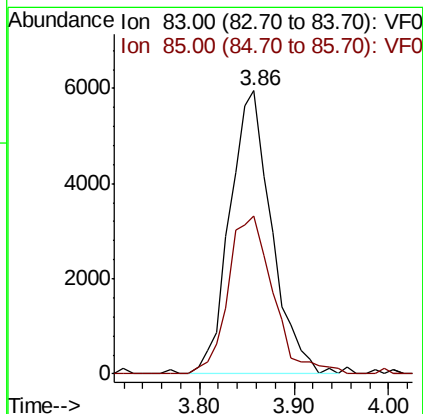
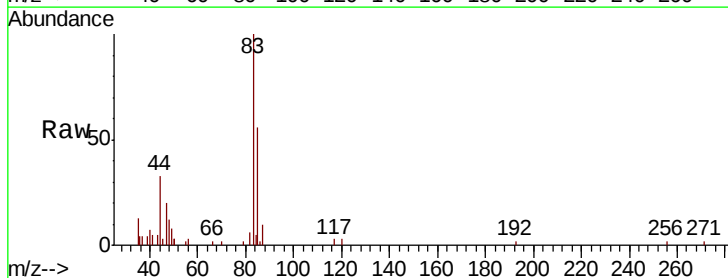
Instrument :
MSVOA_F
ClientSampled :

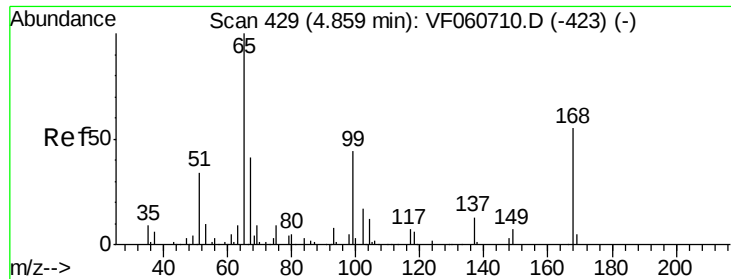
Tot Ion: 42 Resp: 1118
Ion Ratio Lower Upper
42 100
72 14.2 30.3 45.5#
71 12.7 32.2 48.2#



#30
Chloroform
Concen: 2.670 ug/l
RT: 3.86 min Scan# 327
Delta R.T. -0.02 min
Lab File: VF060753.D
Acq: 15 Nov 2018 18:16

Tgt Ion: 83 Resp: 18139
Ion Ratio Lower Upper
83 100
85 57.5 54.6 82.0





#33

1,2-Dichloroethane-d4

Concen: 39.552 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.02 min

Lab File: VF060753.D

Acq: 15 Nov 2018 18:16

Instrument :

MSVOA_F

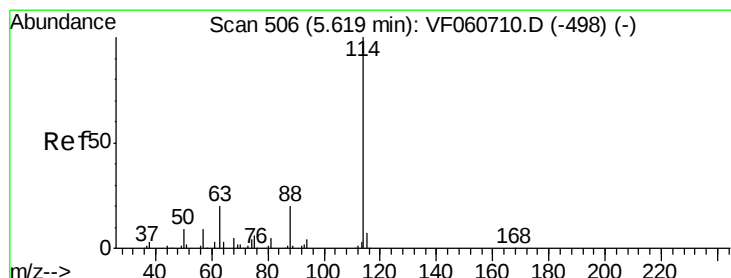
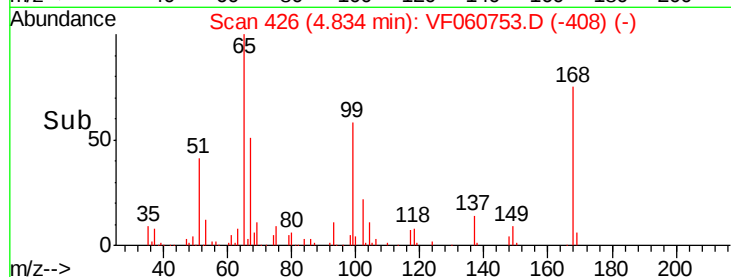
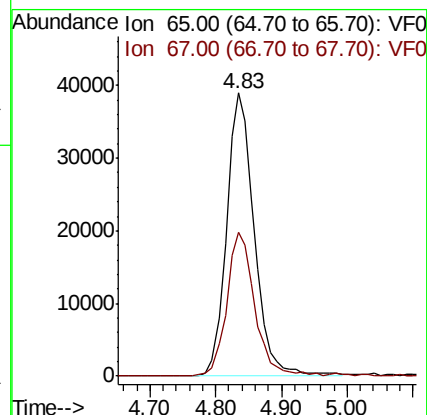
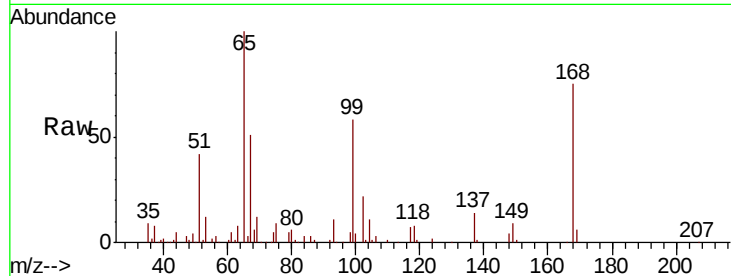
ClientSampled :

Tot Ion: 65 Resp: 114346

Ion Ratio Lower Upper

65 100

67 50.7 0.0 90.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.02 min

Lab File: VF060753.D

Acq: 15 Nov 2018 18:16

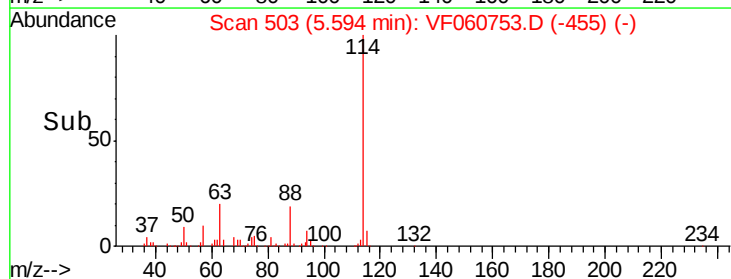
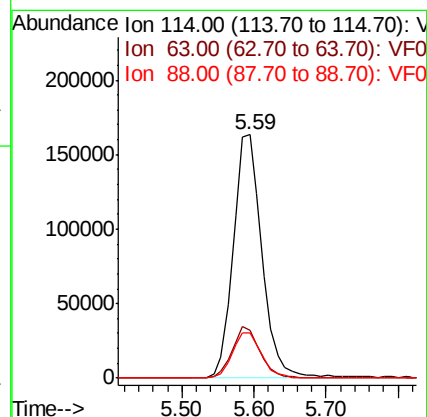
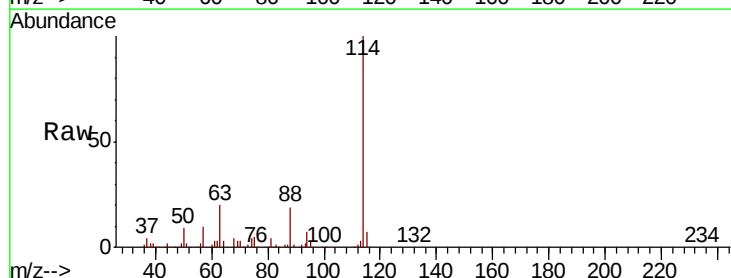
Tgt Ion: 114 Resp: 453160

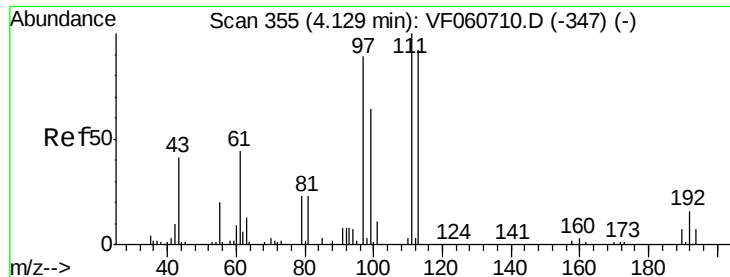
Ion Ratio Lower Upper

114 100

63 19.7 0.0 40.8

88 18.8 0.0 39.6

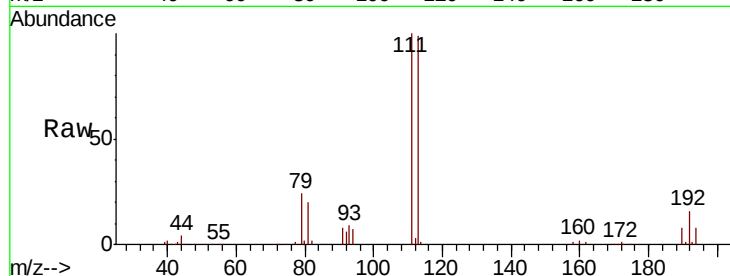




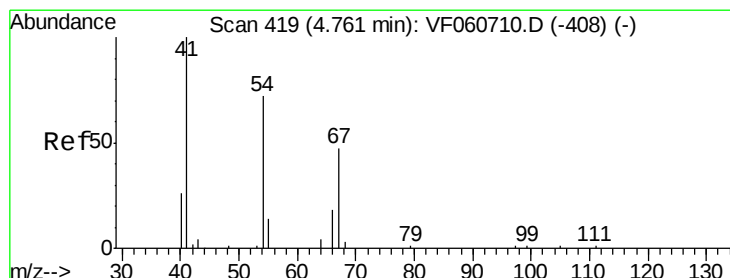
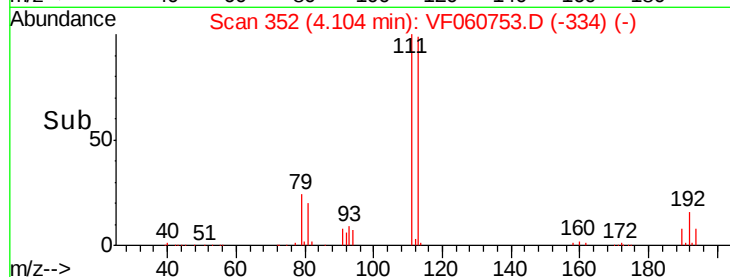
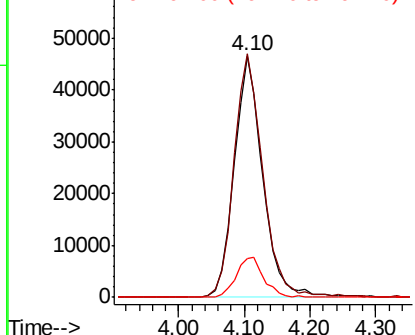
#35
Dibromofluoromethane
Concen: 41.477 ug/l
RT: 4.10 min Scan# 352
Delta R.T. -0.02 min
Lab File: VF060753.D
Acq: 15 Nov 2018 18:16

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:113 Resp: 141287
Ion Ratio Lower Upper
113 100
111 100.8 87.1 130.7
192 16.9 13.8 20.6

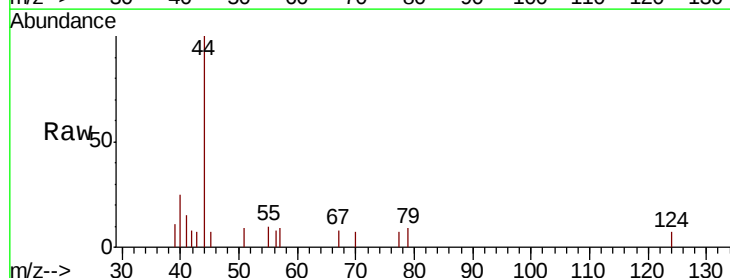


Abundance Ion 113.00 (112.70 to 113.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 192.00 (191.70 to 192.70): V

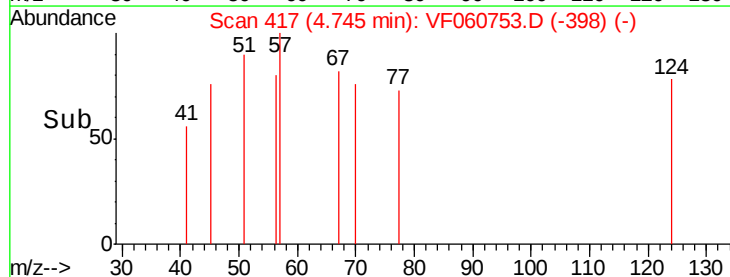
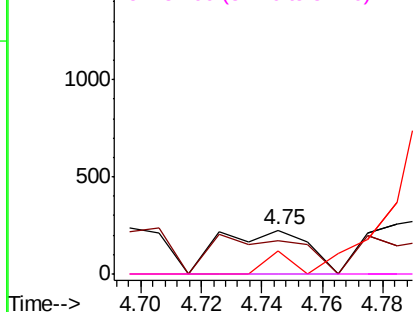


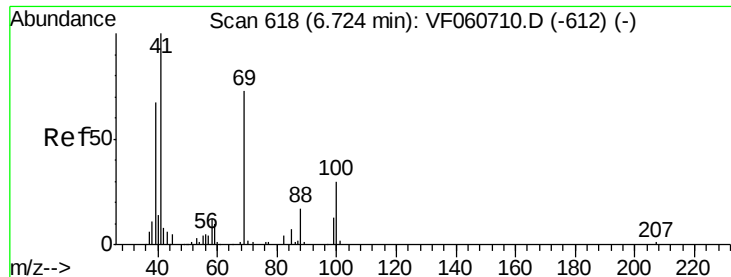
#41
Methacrylonitrile
Concen: Below Cal
RT: 4.75 min Scan# 417
Delta R.T. -0.01 min
Lab File: VF060753.D
Acq: 15 Nov 2018 18:16

Tgt Ion: 41 Resp: 457
Ion Ratio Lower Upper
41 100
39 74.8 47.1 70.7#
67 53.5 37.1 55.7
52 0.0 39.3 58.9#



Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 39.00 (38.70 to 39.70): VF0
Ion 67.00 (66.70 to 67.70): VF0
Ion 52.00 (51.70 to 52.70): VF0





#49

1,4-Dioxane

Concen: 4.241 ug/l

RT: 6.82 min Scan# 627

Delta R.T. 0.09 min

Lab File: VF060753.D

Acq: 15 Nov 2018 18:16

Instrument :
MSVOA_F
ClientSampled :

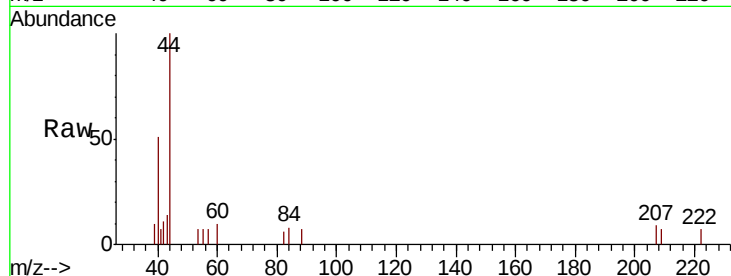
Tot Ion: 88 Resp: 68

Ion Ratio Lower Upper

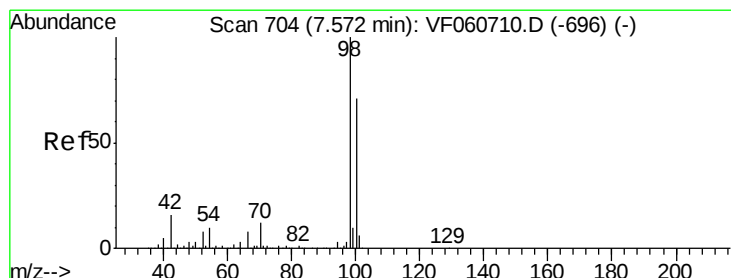
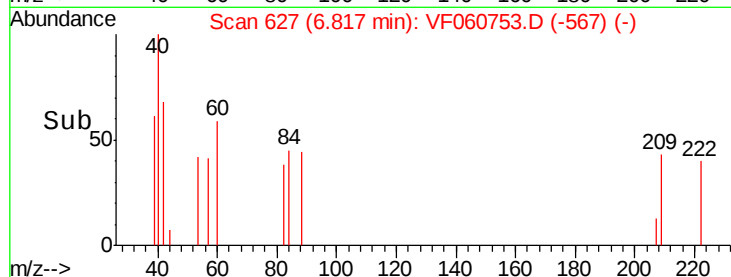
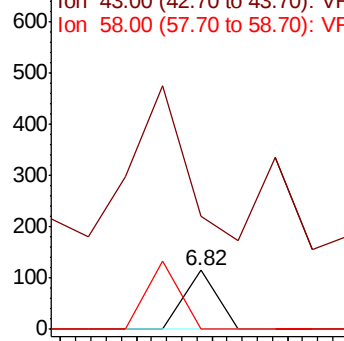
88 100

43 191.3 44.6 66.8#

58 0.0 54.5 81.7#



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: 39.049 ug/l

RT: 7.55 min Scan# 701

Delta R.T. -0.02 min

Lab File: VF060753.D

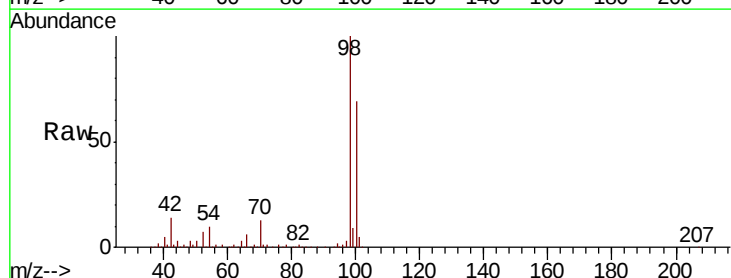
Acq: 15 Nov 2018 18:16

Tgt Ion: 98 Resp: 348373

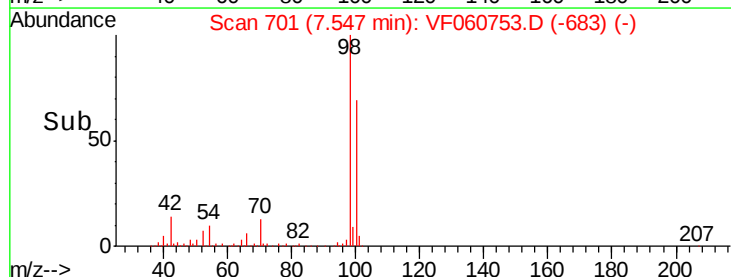
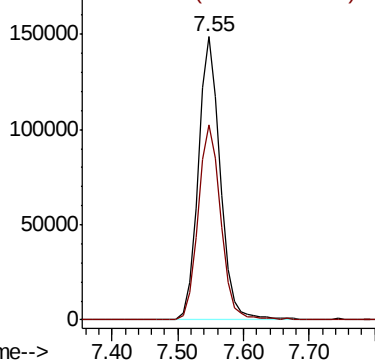
Ion Ratio Lower Upper

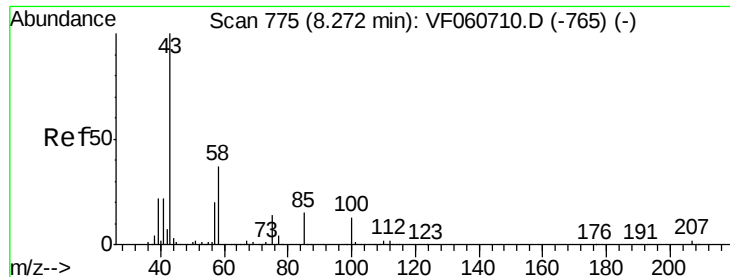
98 100

100 68.9 56.5 84.7



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: 1.186 ug/l

RT: 8.27 min Scan# 774

Delta R.T. -0.01 min

Lab File: VF060753.D

Acq: 15 Nov 2018 18:16

Instrument :

MSVOA_F

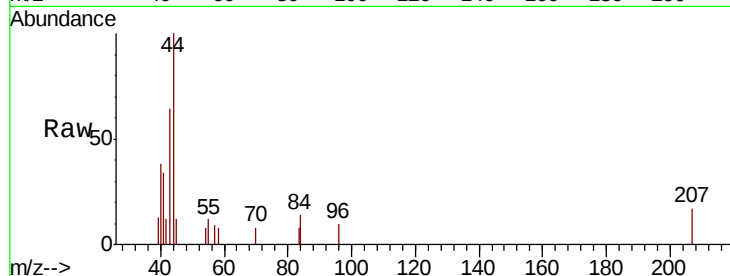
ClientSampleId :

Tot Ion: 43 Resp: 2223

Ion Ratio Lower Upper

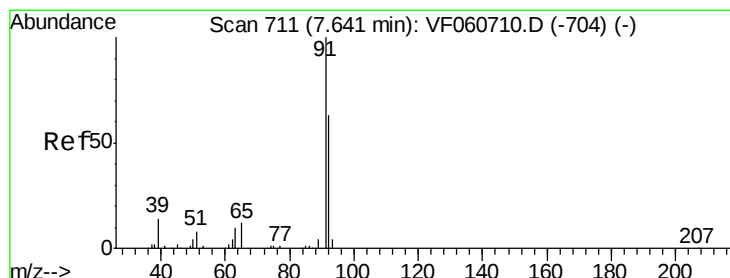
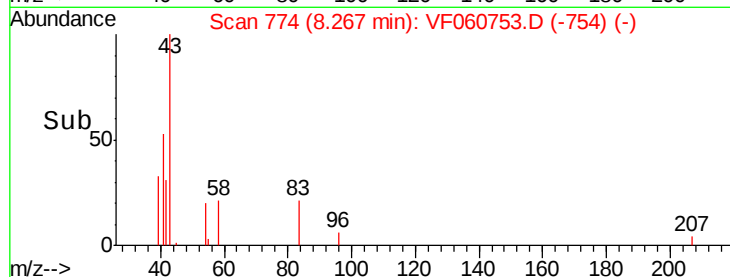
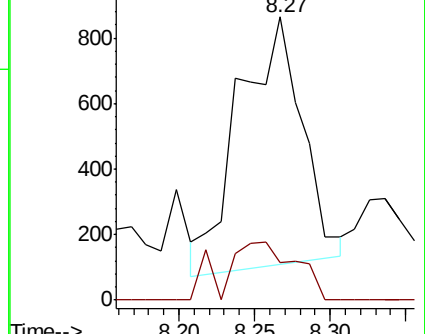
43 100

58 13.2 29.2 43.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 2.876 ug/l

RT: 7.62 min Scan# 708

Delta R.T. -0.03 min

Lab File: VF060753.D

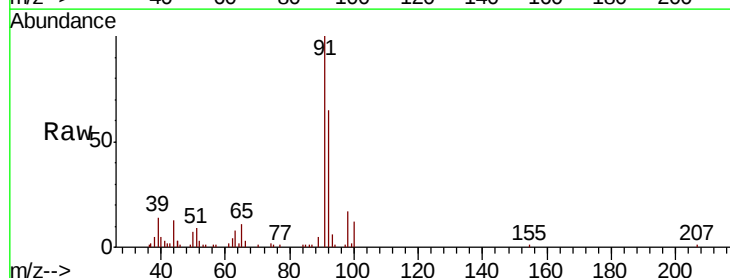
Acq: 15 Nov 2018 18:16

Tgt Ion: 92 Resp: 22578

Ion Ratio Lower Upper

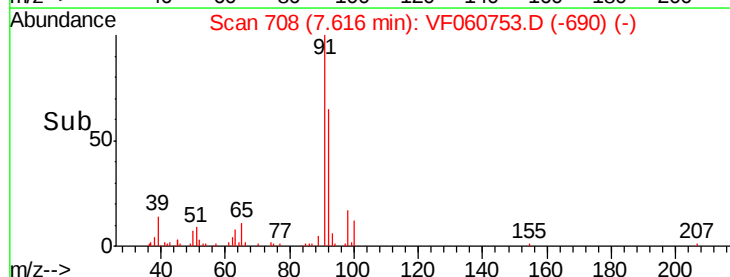
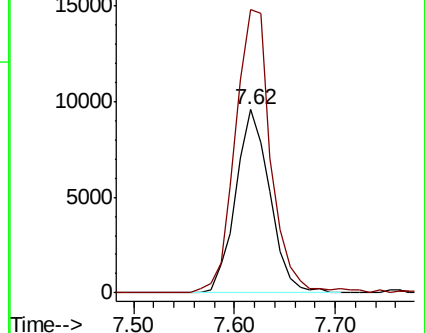
92 100

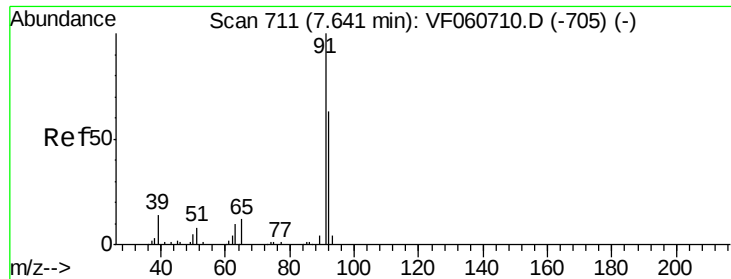
91 154.7 126.7 190.1



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: 14.511 ug/l

RT: 7.62 min Scan# 708

Delta R.T. -0.03 min

Lab File: VF060753.D

Acq: 15 Nov 2018 18:16

Instrument :

MSVOA_F

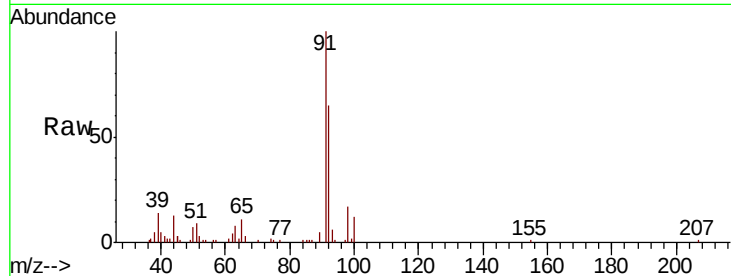
ClientSampleId :

Tot Ion: 63 Resp: 3377

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): VF0

7.62

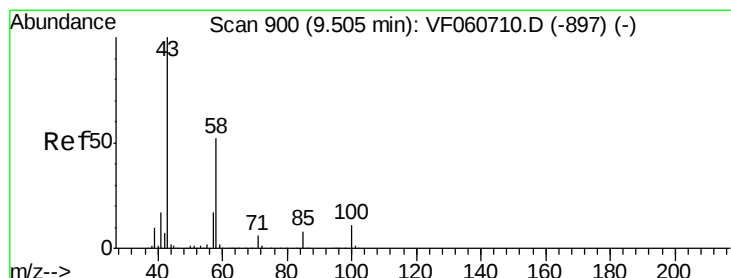
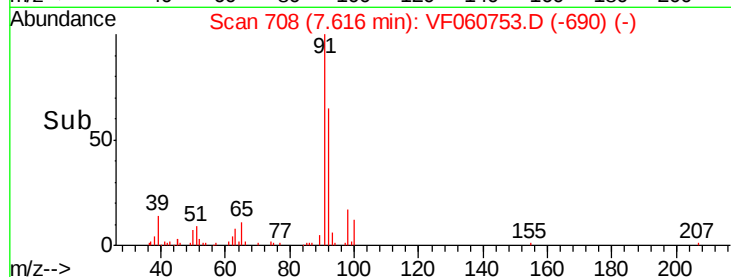
1000

500

0

7.55 7.60 7.65 7.70

Time-->



#59

2-Hexanone

Concen: 1.537 ug/l

RT: 9.49 min Scan# 898

Delta R.T. -0.02 min

Lab File: VF060753.D

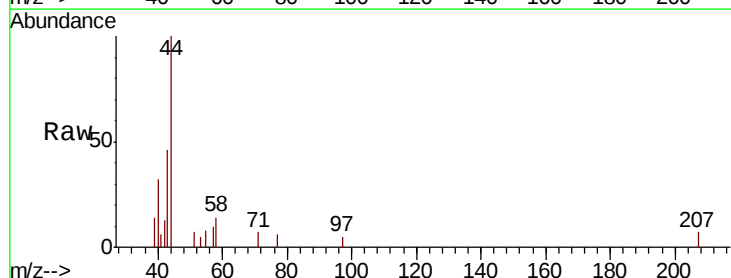
Acq: 15 Nov 2018 18:16

Tgt Ion: 43 Resp: 2024

Ion Ratio Lower Upper

43 100

58 29.5 24.9 74.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

9.49

1000

800

600

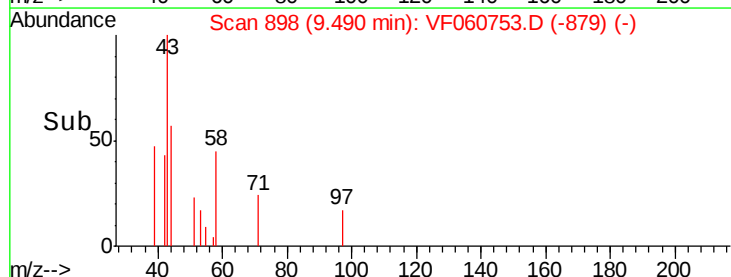
400

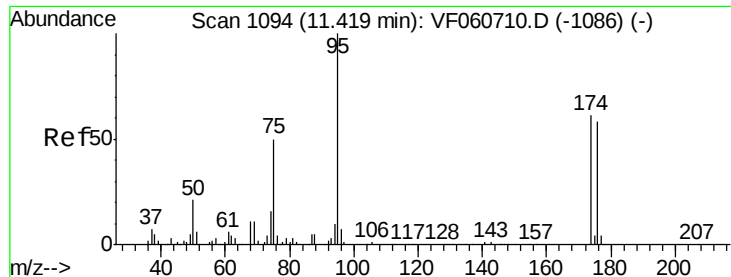
200

0

9.45 9.50 9.55

Time-->





#62

4-Bromofluorobenzene

Concen: 39.289 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.01 min

Lab File: VF060753.D

Acq: 15 Nov 2018 18:16

Instrument :

MSVOA_F

ClientSampleId :

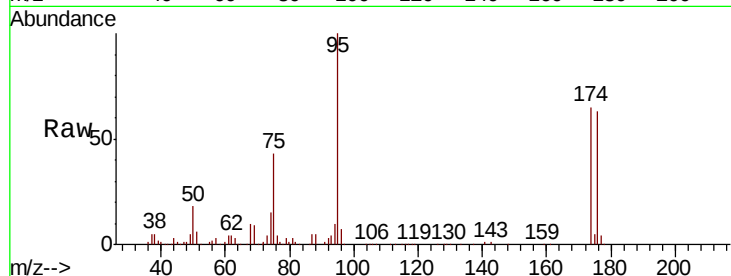
Tot Ion: 95 Resp: 161867

Ion Ratio Lower Upper

95 100

174 65.4 0.0 121.6

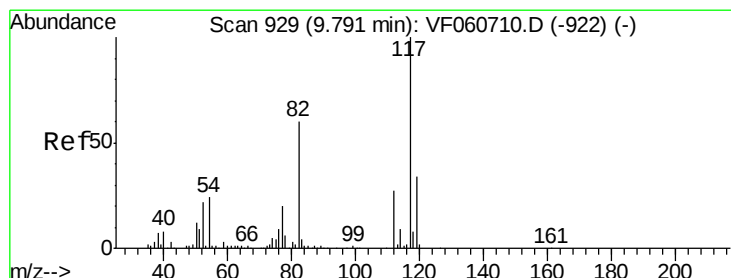
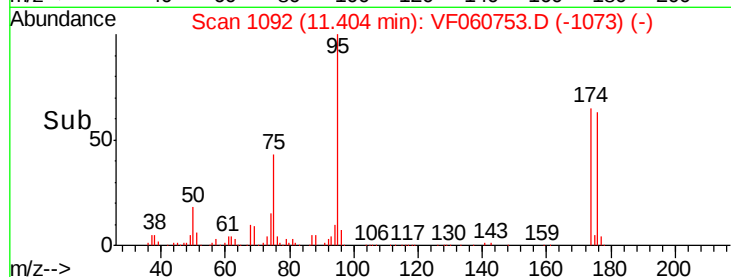
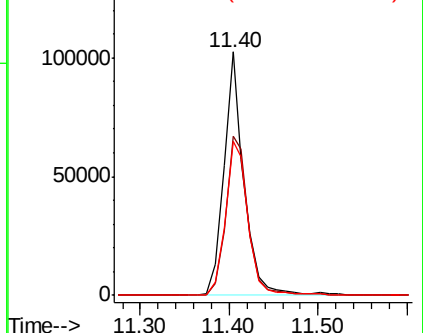
176 63.5 0.0 115.2



Abundance Ion 95.00 (94.70 to 95.70): VF060753.D (-1073) (-)

Ion 174.00 (173.70 to 174.70): VF060753.D (-1073) (-)

Ion 176.00 (175.70 to 176.70): VF060753.D (-1073) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.77 min Scan# 926

Delta R.T. -0.03 min

Lab File: VF060753.D

Acq: 15 Nov 2018 18:16

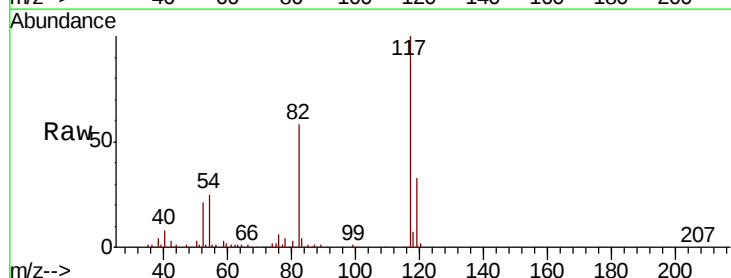
Tgt Ion: 117 Resp: 387721

Ion Ratio Lower Upper

117 100

82 58.3 47.9 71.9

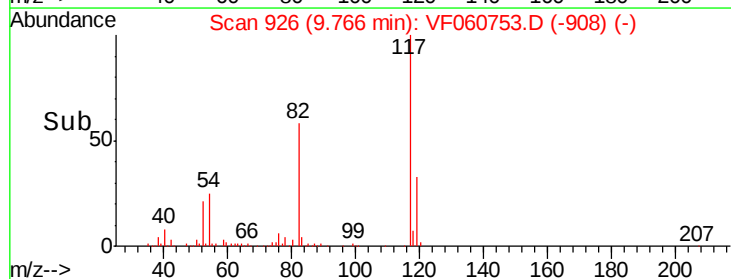
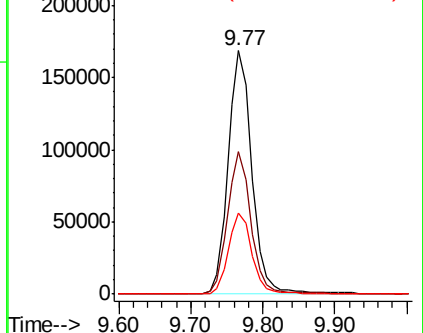
119 33.3 26.8 40.2

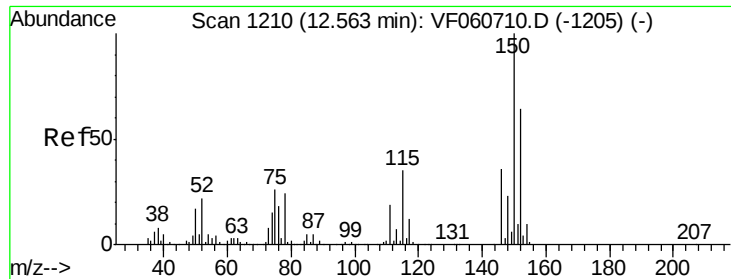


Abundance Ion 117.00 (116.70 to 117.70): VF060753.D (-908) (-)

Ion 82.00 (81.70 to 82.70): VF060753.D (-908) (-)

Ion 119.00 (118.70 to 119.70): VF060753.D (-908) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1208

Delta R.T. -0.02 min

Lab File: VF060753.D

Acq: 15 Nov 2018 18:16

Instrument :

MSVOA_F

ClientSampleId :

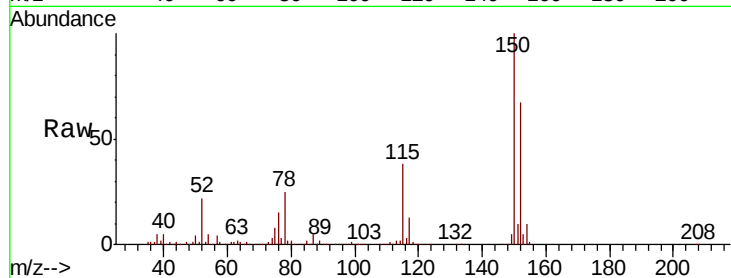
Tot Ion:152 Resp: 216422

Ion Ratio Lower Upper

152 100

115 56.4 27.9 83.7

150 149.3 0.0 316.4



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

