

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF062218\
 Data File : VF059295.D
 Acq On : 23 Jun 2018 1:10
 Operator : VA/AP
 Sample : J3605-05
 Misc : 5.34g/5mL/MSVOA-F/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 S-4(3-3.5)

Quant Time: Jun 23 04:39:44 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F062118S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 22 05:22:31 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.04	168	181958	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.76	114	285076	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	259497	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	132790	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.02	65	143108	54.79	ug/l	0.00
Spiked Amount 50.000			Recovery	=	109.58%	
35) Dibromofluoromethane	4.29	113	38231	15.94	ug/l	0.00
Spiked Amount 50.000			Recovery	=	31.88%	
50) Toluene-d8	7.70	98	270924	44.41	ug/l	0.00
Spiked Amount 50.000			Recovery	=	88.82%	
62) 4-Bromofluorobenzene	11.50	95	127763	37.77	ug/l	0.00
Spiked Amount 50.000			Recovery	=	75.54%	

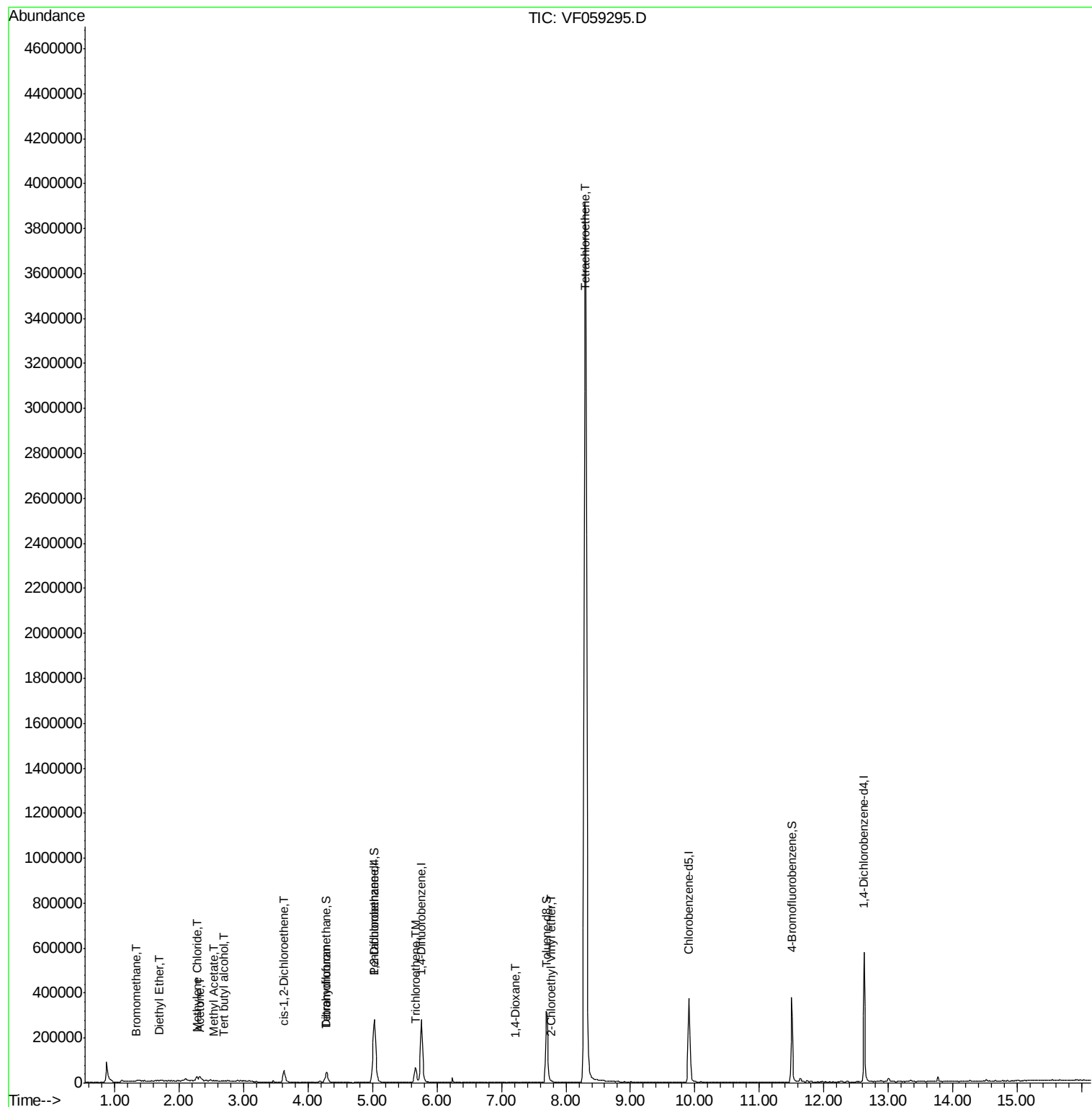
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.33	94	132	1.909	ug/l #	1
8) Diethyl Ether	1.70	74	969	1.661	ug/l	56
11) Tert butyl alcohol	2.68	59	629	4.133	ug/l #	42
13) Acrolein	2.07	56	401	Below Cal		95
15) Acrylonitrile	3.05	53	572	Below Cal	#	64
16) Acetone	2.34	43	17560	28.446	ug/l	99
18) Methyl Acetate	2.54	43	1548	1.330	ug/l	95
20) Methylene Chloride	2.28	84	7212	3.992	ug/l	98
27) cis-1,2-Dichloroethene	3.63	96	29795	14.568	ug/l	98
28) Bromochloromethane	3.81	49	60	Below Cal	#	8
29) Tetrahydrofuran	4.27	42	580	1.569	ug/l #	70
44) Trichloroethene	5.67	130	29049	13.186	ug/l	92
49) 1,4-Dioxane	7.20	88	67	7.780	ug/l #	12
58) 2-Chloroethyl Vinyl ether	7.78	63	324	1.871	ug/l	100
64) Tetrachloroethene	8.30	164	1207593	605.935	ug/l	93

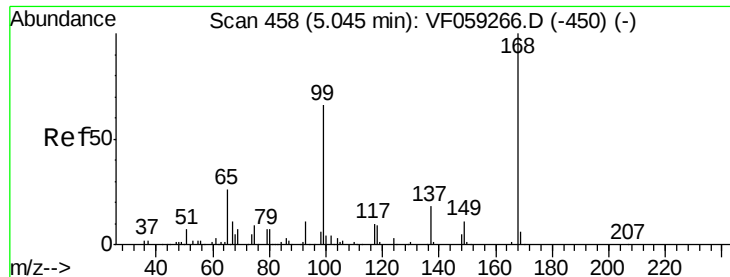
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.04 min Scan# 457

Delta R.T. -0.01 min

Lab File: VF059295.D

Acq: 23 Jun 2018 1:10

Instrument :

MSVOA_F

ClientSampleId :

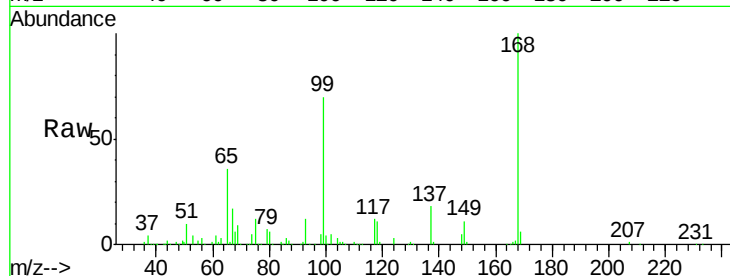
S-4(3-3.5)

Tgt Ion:168 Resp: 181958

Ion Ratio Lower Upper

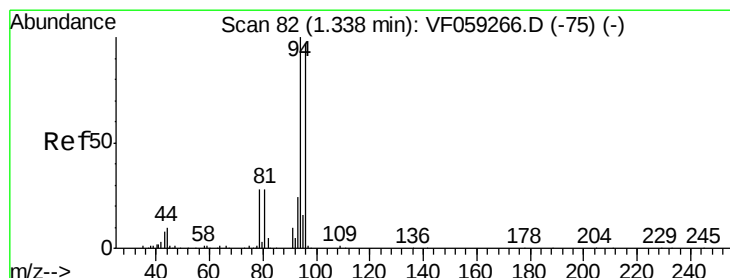
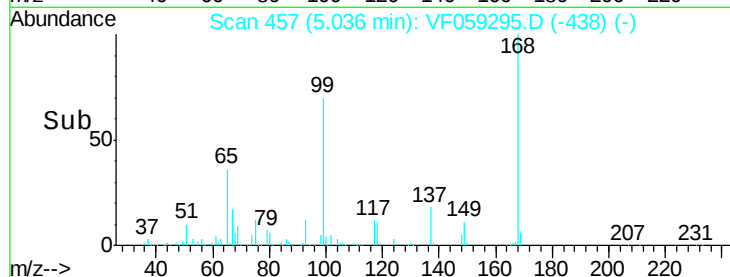
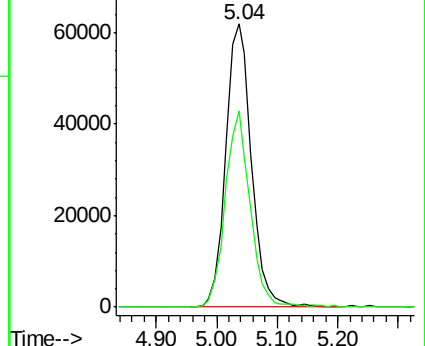
168 100

99 69.5 52.6 78.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#5

Bromomethane

Concen: 1.909 ug/l

RT: 1.33 min Scan# 81

Delta R.T. -0.01 min

Lab File: VF059295.D

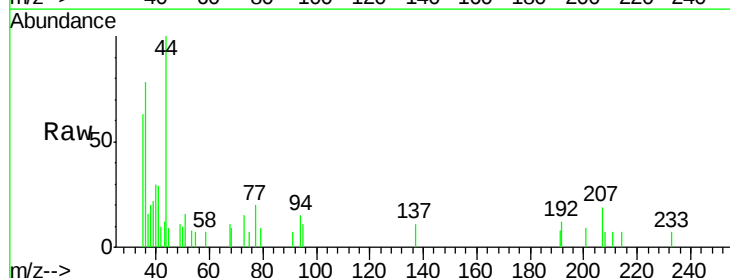
Acq: 23 Jun 2018 1:10

Tgt Ion: 94 Resp: 132

Ion Ratio Lower Upper

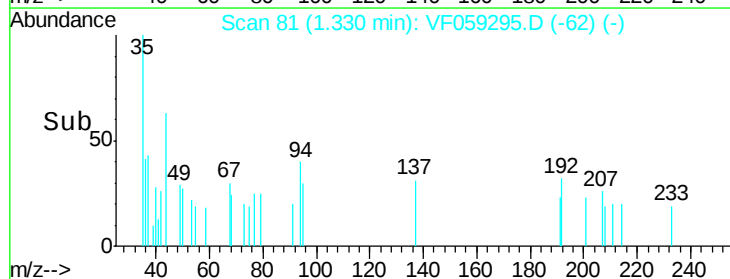
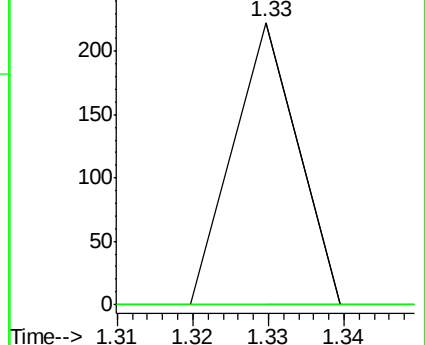
94 100

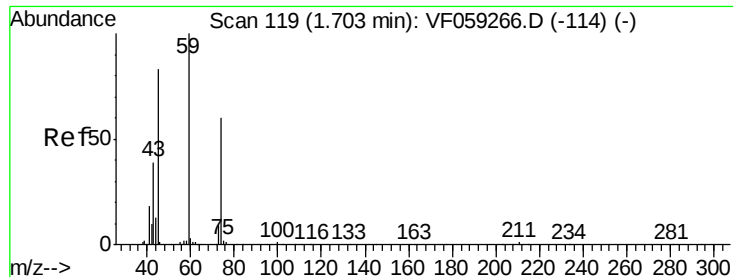
96 0.0 77.7 116.5#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0





#8

Diethyl Ether

Concen: 1.661 ug/l

RT: 1.70 min Scan# 119

Delta R.T. 0.00 min

Lab File: VF059295.D

Acq: 23 Jun 2018 1:10

Instrument :

MSVOA_F

ClientSampleId :

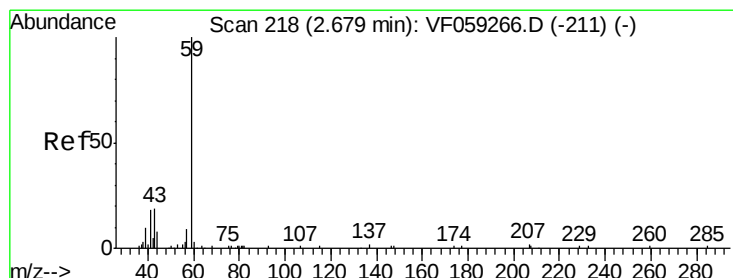
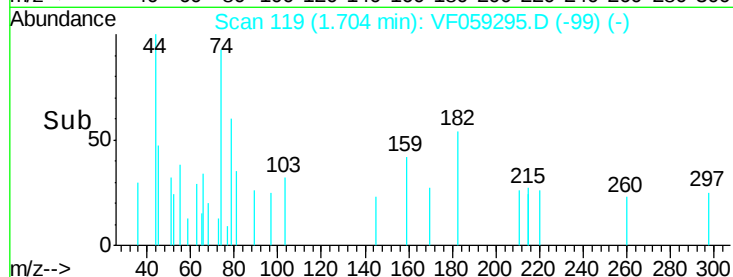
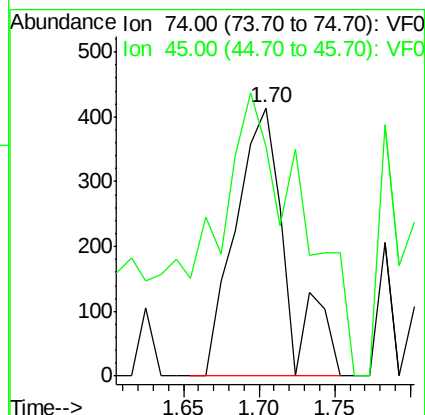
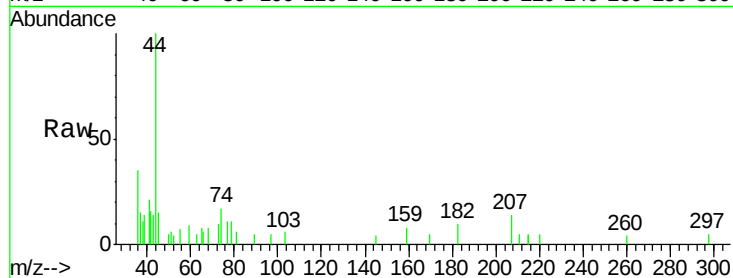
S-4(3-3.5)

Tgt Ion: 74 Resp: 969

Ion Ratio Lower Upper

74 100

45 85.5 69.2 207.4



#11

Tert butyl alcohol

Concen: 4.133 ug/l

RT: 2.68 min Scan# 218

Delta R.T. 0.00 min

Lab File: VF059295.D

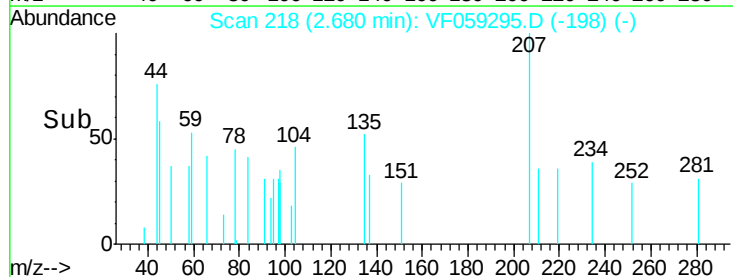
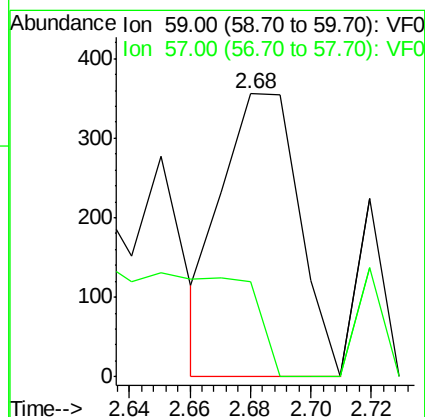
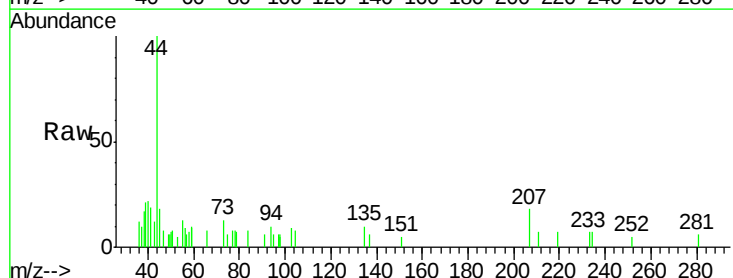
Acq: 23 Jun 2018 1:10

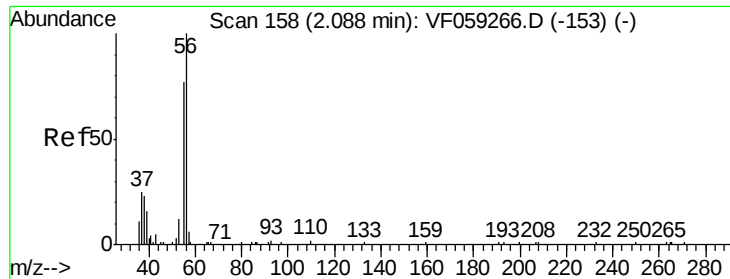
Tgt Ion: 59 Resp: 629

Ion Ratio Lower Upper

59 100

57 33.7 9.2 13.8#





#13

Acrolein

Concen: Below Cal

RT: 2.07 min Scan# 156

Delta R.T. -0.02 min

Lab File: VF059295.D

Acq: 23 Jun 2018 1:10

Instrument :

MSVOA_F

ClientSampleId :

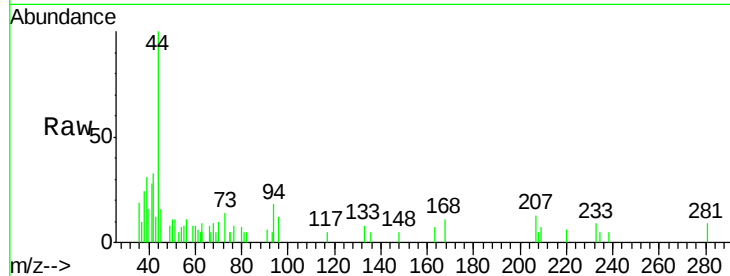
S-4(3-3.5)

Tgt Ion: 56 Resp: 401

Ion Ratio Lower Upper

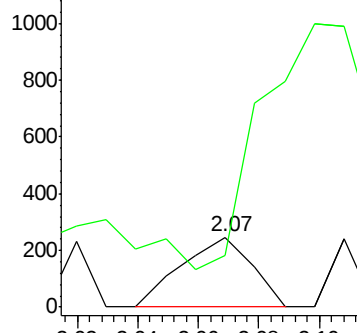
56 100

55 74.4 63.0 94.6

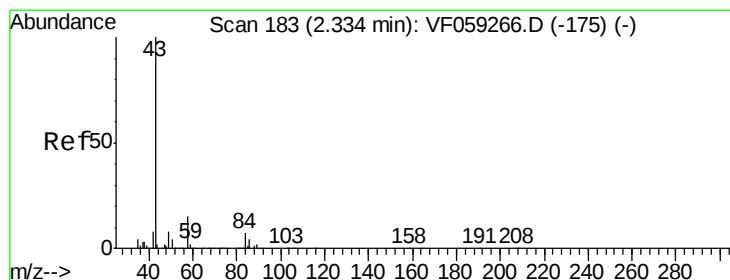
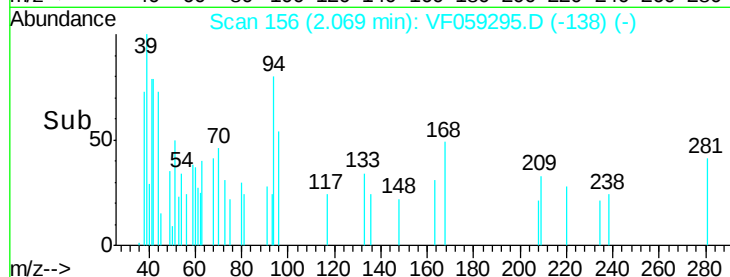


Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



Time-->



#16

Acetone

Concen: 28.446 ug/l

RT: 2.34 min Scan# 183

Delta R.T. 0.00 min

Lab File: VF059295.D

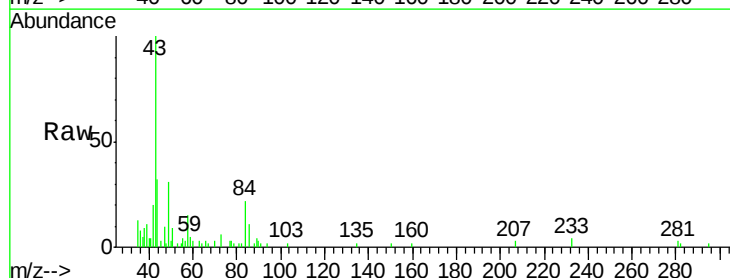
Acq: 23 Jun 2018 1:10

Tgt Ion: 43 Resp: 17560

Ion Ratio Lower Upper

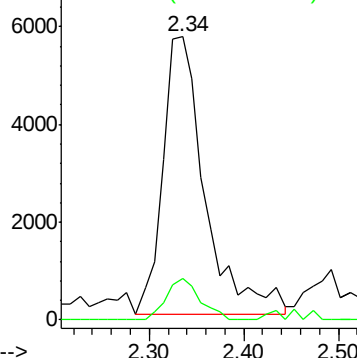
43 100

58 14.6 12.1 18.1

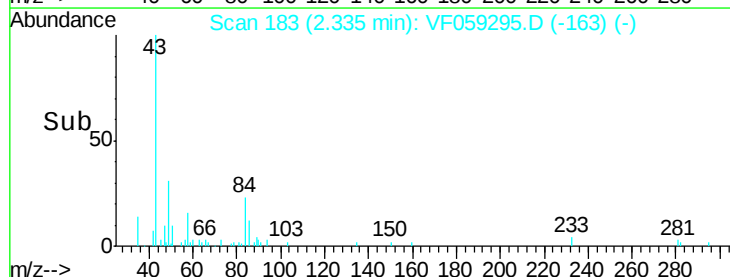


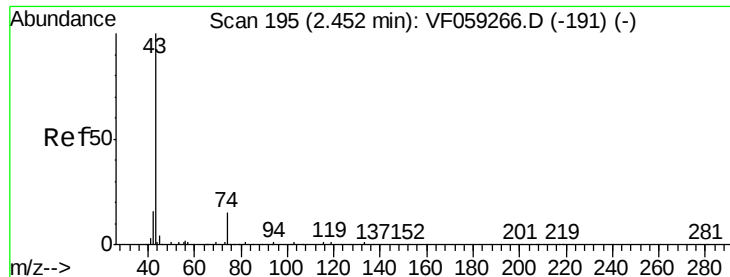
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



Time-->

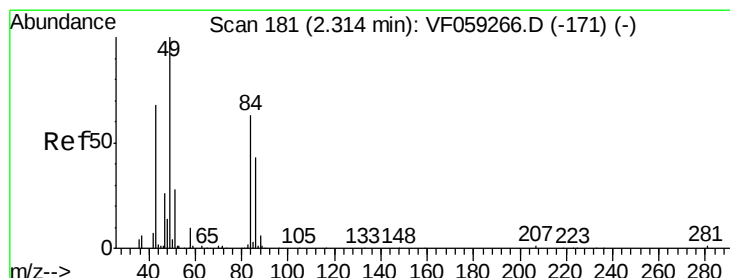
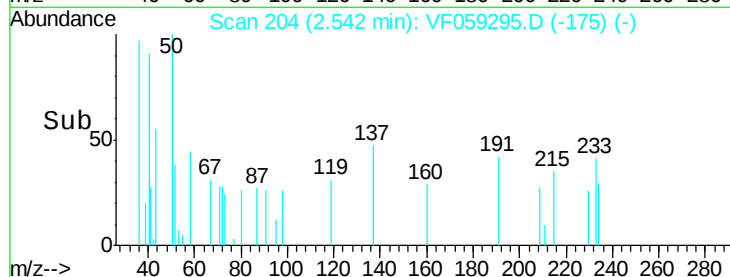
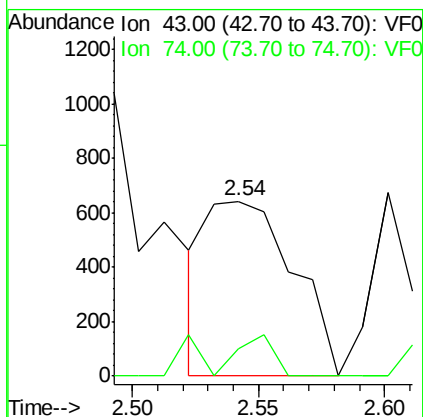
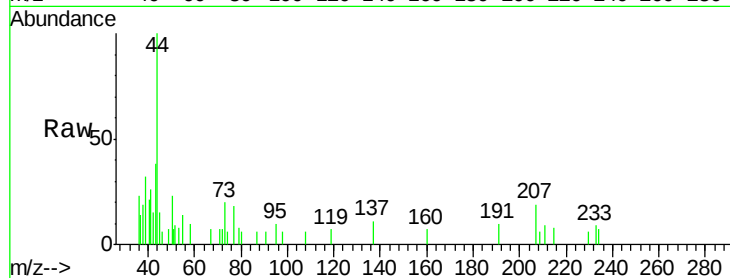




#18
Methyl Acetate
Concen: 1.330 ug/l
RT: 2.54 min Scan# 204
Delta R.T. 0.09 min
Lab File: VF059295.D
Acq: 23 Jun 2018 1:10

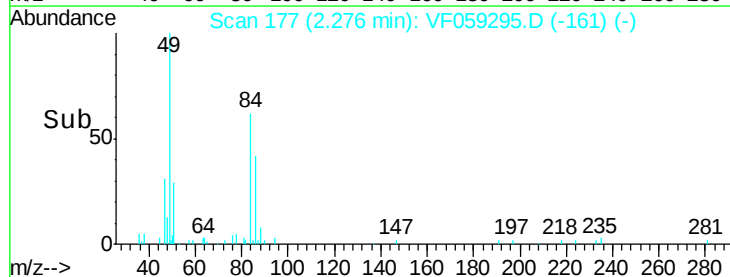
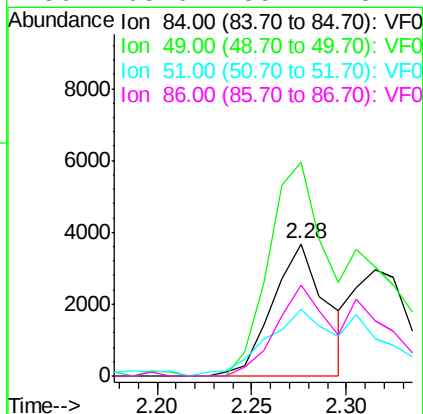
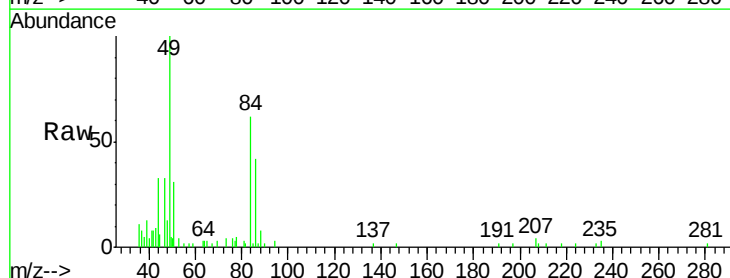
Instrument :
MSVOA_F
ClientSampleId :
S-4(3-3.5)

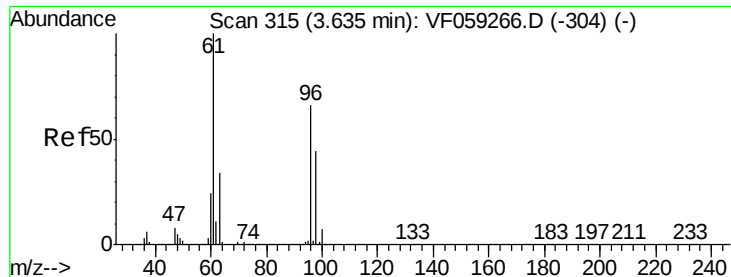
Tgt Ion: 43 Resp: 1548
Ion Ratio Lower Upper
43 100
74 15.6 11.0 16.4



#20
Methylene Chloride
Concen: 3.992 ug/l
RT: 2.28 min Scan# 177
Delta R.T. -0.04 min
Lab File: VF059295.D
Acq: 23 Jun 2018 1:10

Tgt Ion: 84 Resp: 7212
Ion Ratio Lower Upper
84 100
49 161.4 130.0 195.0
51 50.5 36.6 55.0
86 68.6 55.1 82.7



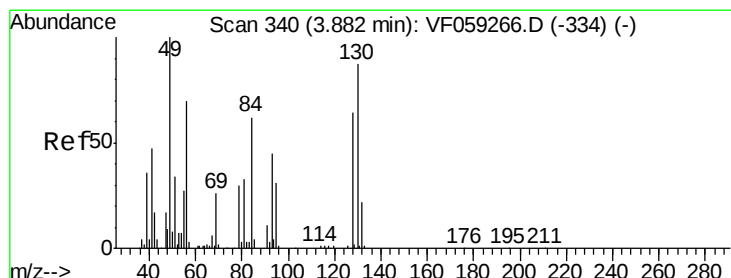
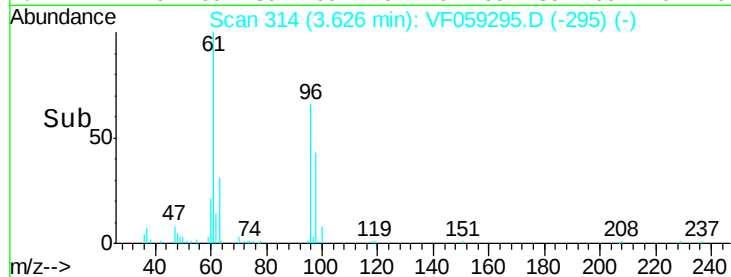
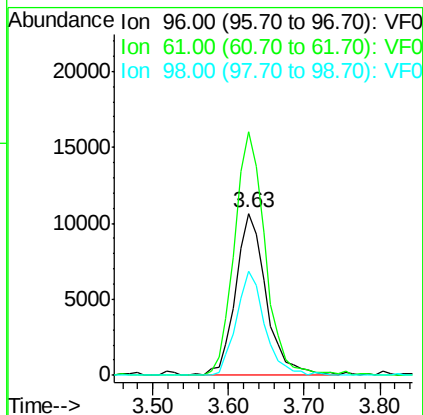
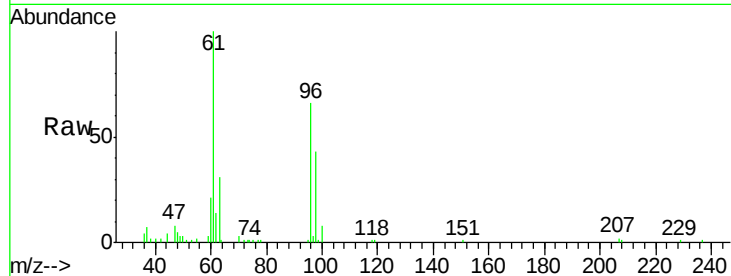


#27

cis-1,2-Dichloroethene
 Concen: 14.568 ug/l
 RT: 3.63 min Scan# 314
 Delta R.T. -0.01 min
 Lab File: VF059295.D
 Acq: 23 Jun 2018 1:10

Instrument :
 MSVOA_F
 ClientSampleId :
 S-4(3-3.5)

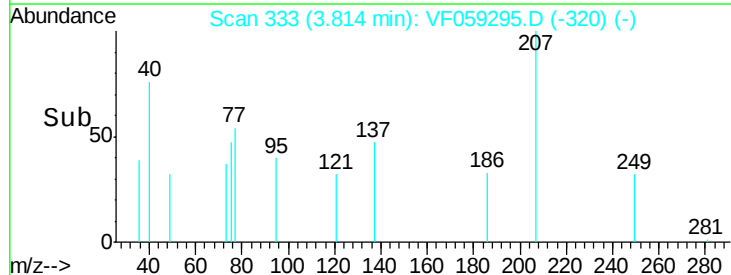
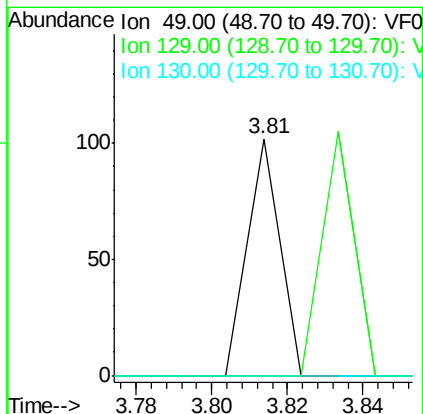
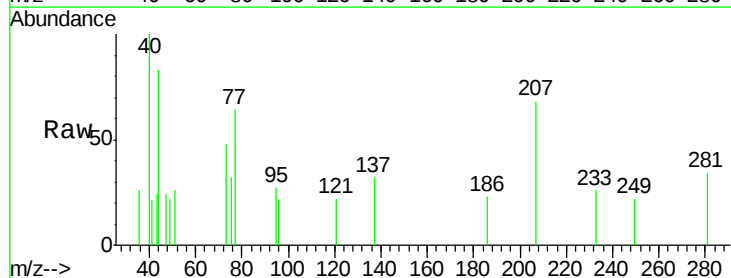
Tgt Ion: 96 Resp: 29795
 Ion Ratio Lower Upper
 96 100
 61 150.6 0.0 305.0
 98 64.4 0.0 134.0

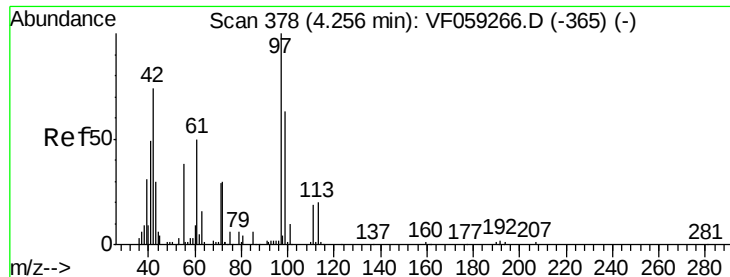


#28

Bromochloromethane
 Concen: Below Cal
 RT: 3.81 min Scan# 333
 Delta R.T. -0.07 min
 Lab File: VF059295.D
 Acq: 23 Jun 2018 1:10

Tgt Ion: 49 Resp: 60
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 3.8
 130 0.0 69.4 104.2#





#29

Tetrahydrofuran

Concen: 1.569 ug/l

RT: 4.27 min Scan# 379

Delta R.T. 0.01 min

Lab File: VF059295.D

Acq: 23 Jun 2018 1:10

Instrument :

MSVOA_F

ClientSampleId :

S-4(3-3.5)

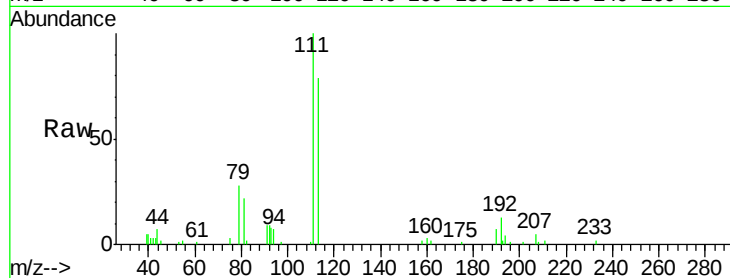
Tgt Ion: 42 Resp: 580

Ion Ratio Lower Upper

42 100

72 24.7 31.2 46.8#

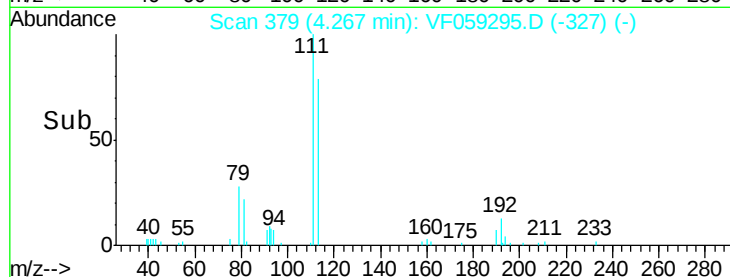
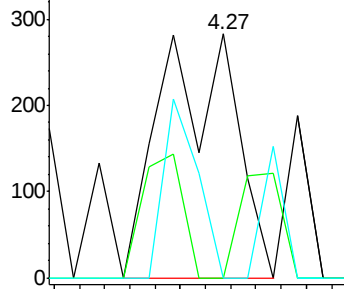
71 15.7 30.2 45.2#



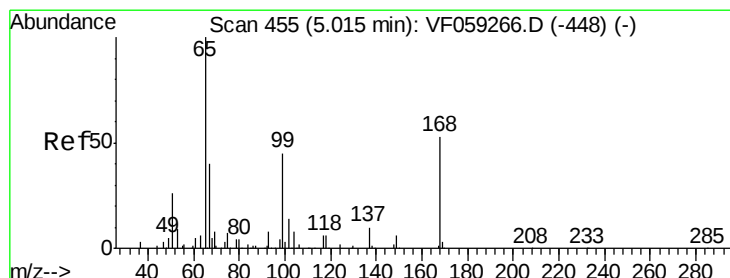
Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



Time-->



#33

1,2-Dichloroethane-d4

Concen: 54.791 ug/l

RT: 5.02 min Scan# 455

Delta R.T. 0.00 min

Lab File: VF059295.D

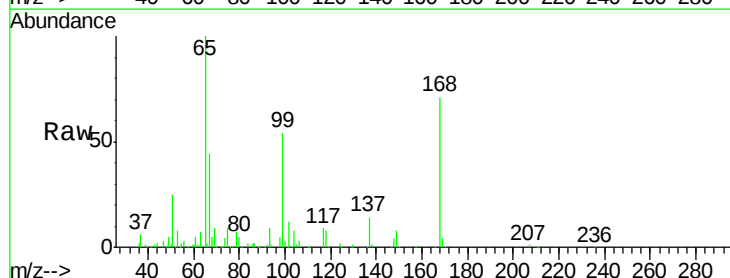
Acq: 23 Jun 2018 1:10

Tgt Ion: 65 Resp: 143108

Ion Ratio Lower Upper

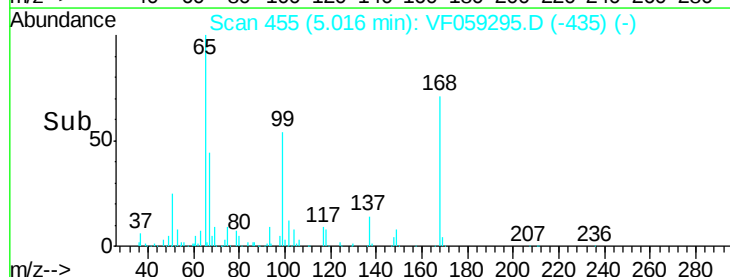
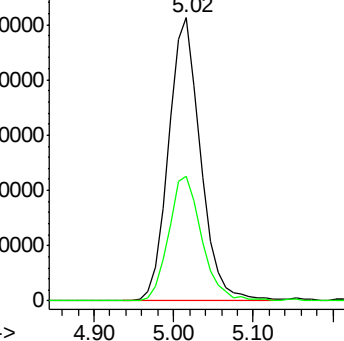
65 100

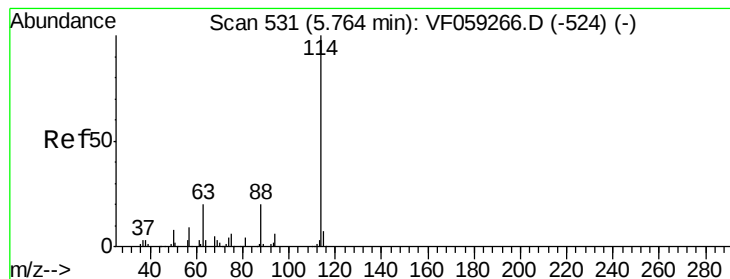
67 44.1 0.0 95.8



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: 5.76 min Scan# 530

Delta R.T. -0.01 min

Lab File: VF059295.D

Acq: 23 Jun 2018 1:10

Instrument :

MSVOA_F

ClientSampleId :

S-4(3-3.5)

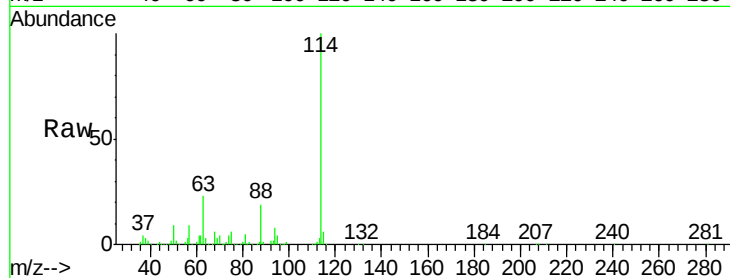
Tgt Ion:114 Resp: 285076

Ion Ratio Lower Upper

114 100

63 23.2 0.0 41.0

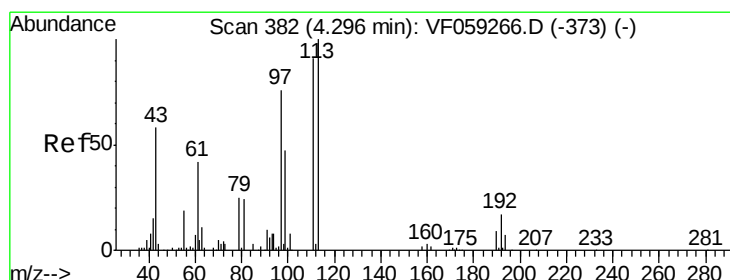
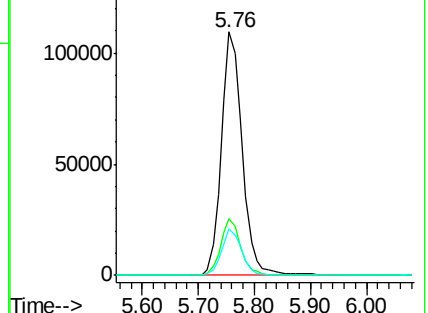
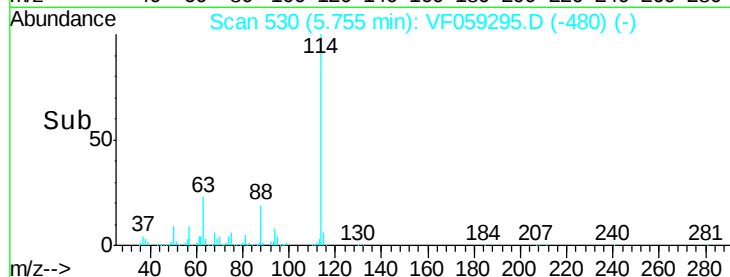
88 19.0 0.0 39.6



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: 15.940 ug/l

RT: 4.29 min Scan# 381

Delta R.T. -0.01 min

Lab File: VF059295.D

Acq: 23 Jun 2018 1:10

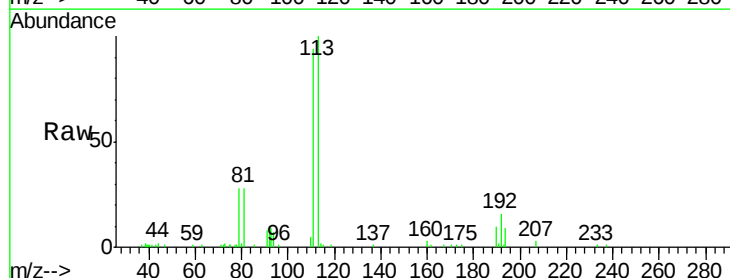
Tgt Ion:113 Resp: 38231

Ion Ratio Lower Upper

113 100

111 93.8 73.1 109.7

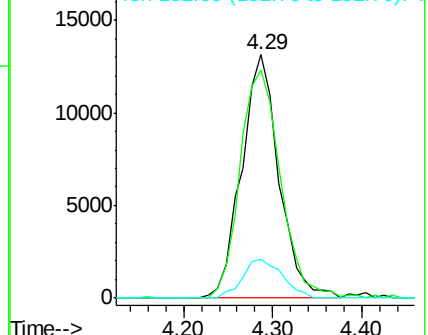
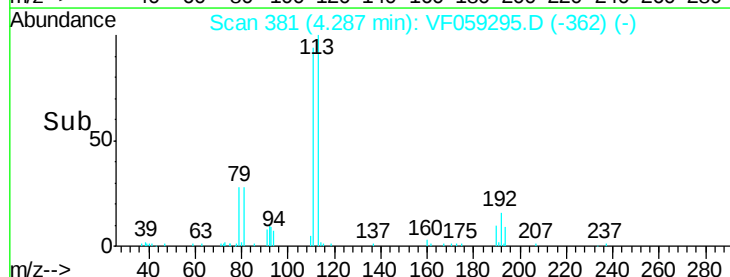
192 16.0 13.9 20.9

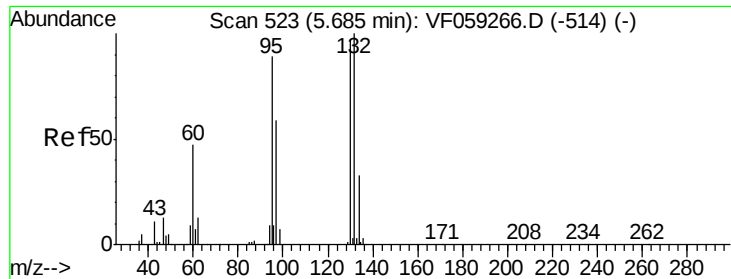


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#44

Trichloroethene

Concen: 13.186 ug/l

RT: 5.67 min Scan# 521

Delta R.T. -0.02 min

Lab File: VF059295.D

Acq: 23 Jun 2018 1:10

Instrument :

MSVOA_F

ClientSampleId :

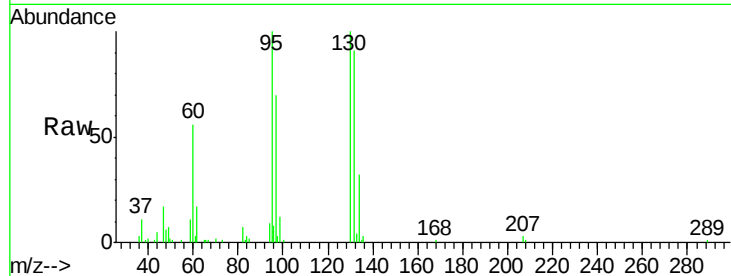
S-4(3-3.5)

Tgt Ion:130 Resp: 29049

Ion Ratio Lower Upper

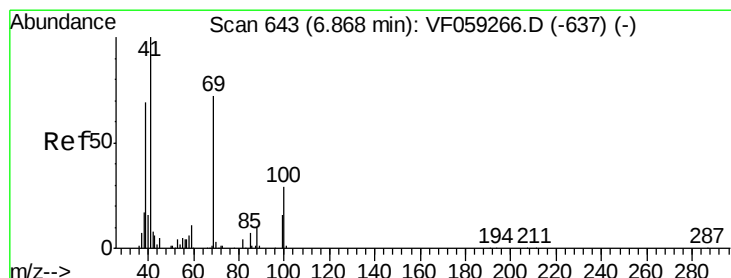
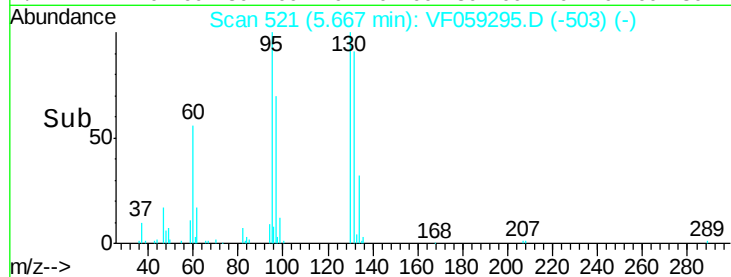
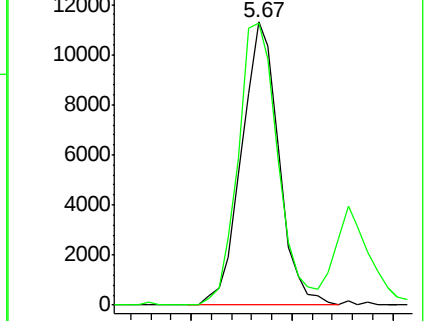
130 100

95 99.6 0.0 183.6



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0



#49

1,4-Dioxane

Concen: 7.780 ug/l

RT: 7.20 min Scan# 677

Delta R.T. 0.34 min

Lab File: VF059295.D

Acq: 23 Jun 2018 1:10

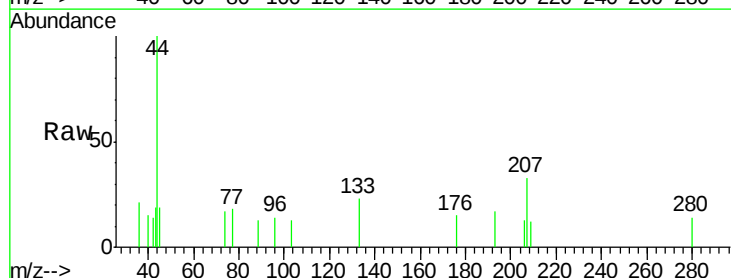
Tgt Ion: 88 Resp: 67

Ion Ratio Lower Upper

88 100

43 146.9 55.5 83.3#

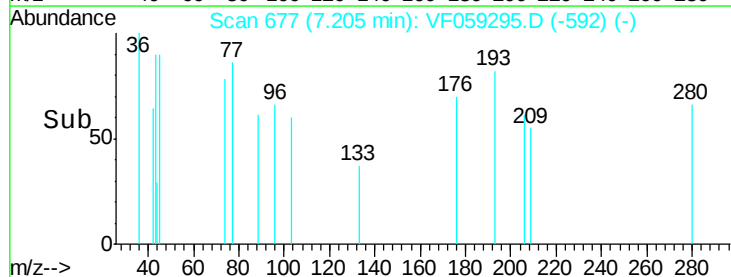
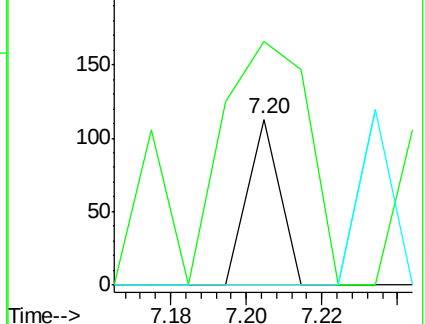
58 0.0 50.1 75.1#

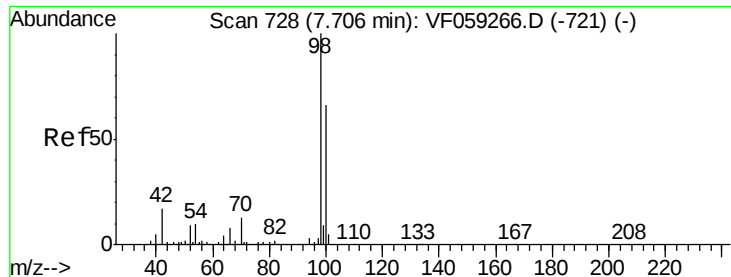


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 44.408 ug/l

RT: 7.70 min Scan# 727

Delta R.T. -0.01 min

Lab File: VF059295.D

Acq: 23 Jun 2018 1:10

Instrument :

MSVOA_F

ClientSampleId :

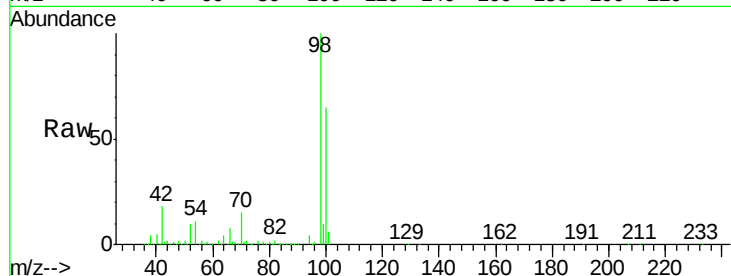
S-4(3-3.5)

Tgt Ion: 98 Resp: 270924

Ion Ratio Lower Upper

98 100

100 65.5 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF

7.70

120000

100000

80000

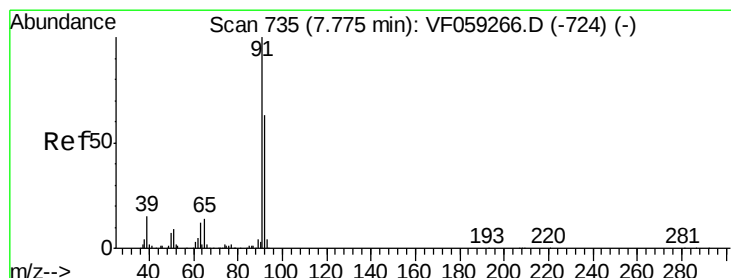
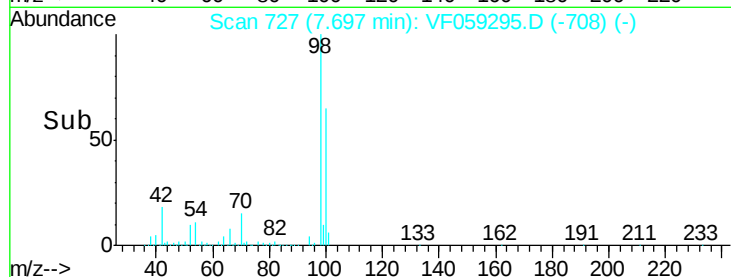
60000

40000

20000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 1.871 ug/l

RT: 7.78 min Scan# 735

Delta R.T. 0.00 min

Lab File: VF059295.D

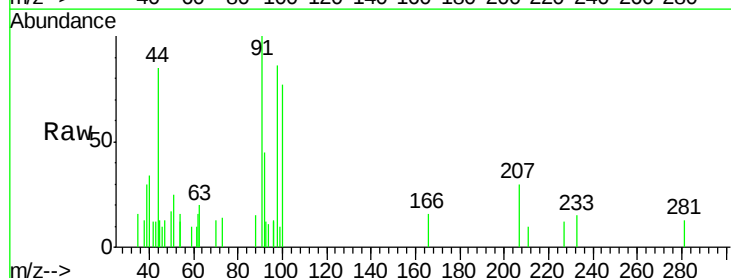
Acq: 23 Jun 2018 1:10

Tgt Ion: 63 Resp: 324

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

7.78

250

200

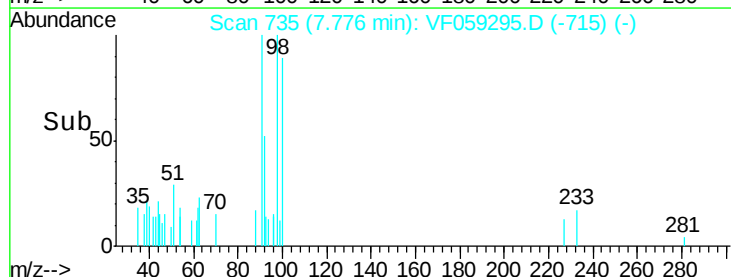
150

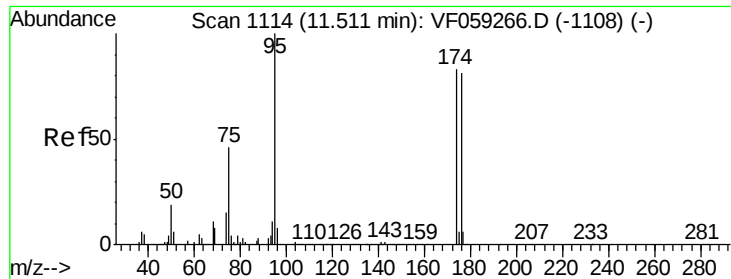
100

50

0

Time-->

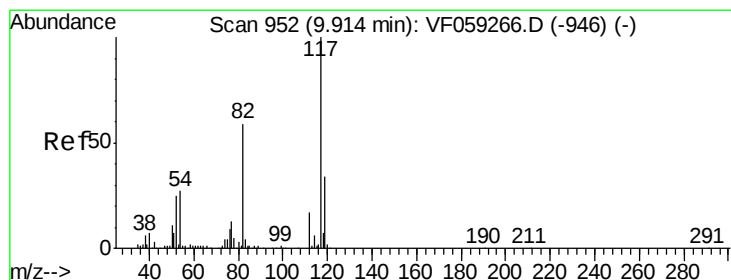
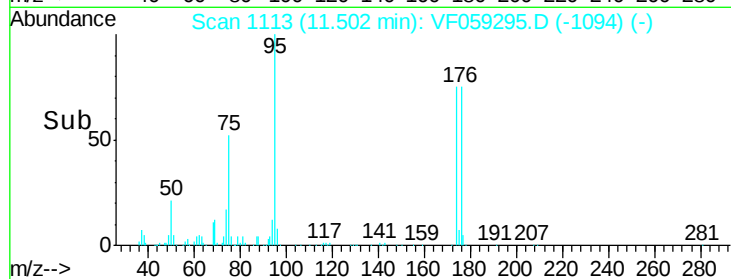
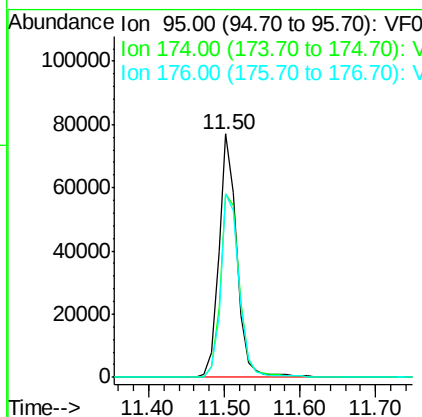
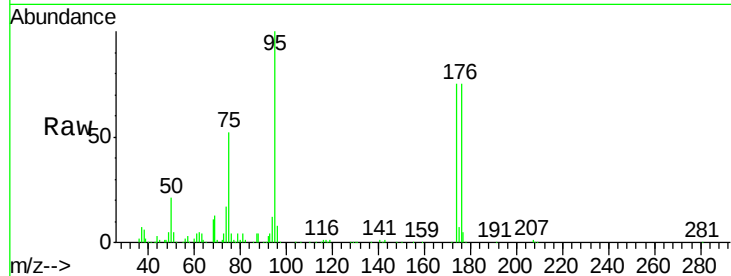




#62
4-Bromofluorobenzene
Concen: 37.766 ug/l
RT: 11.50 min Scan# 1113
Delta R.T. -0.01 min
Lab File: VF059295.D
Acq: 23 Jun 2018 1:10

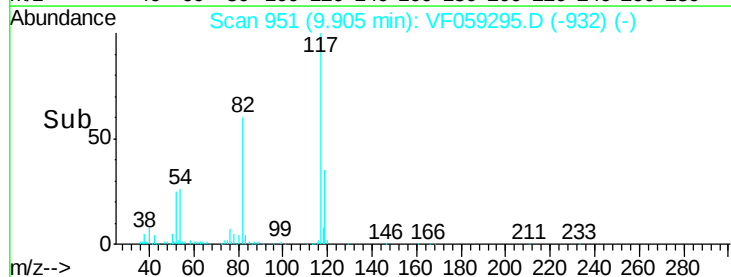
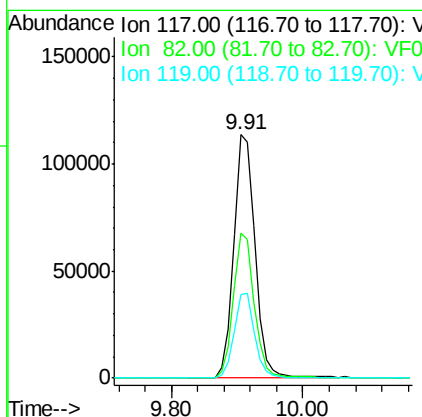
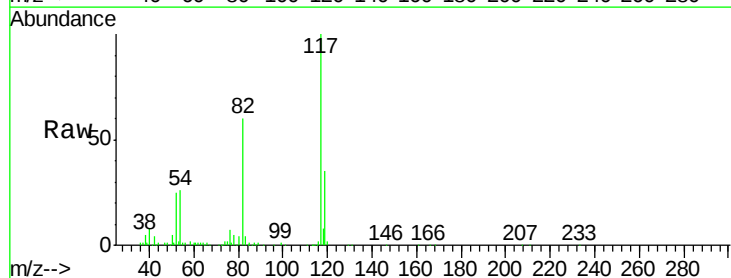
Instrument :
MSVOA_F
ClientSampled :
S-4(3-3.5)

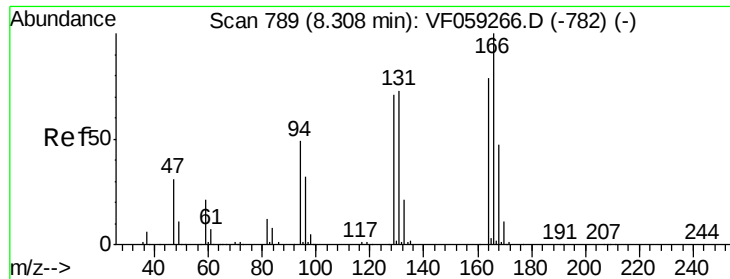
Tgt Ion: 95 Resp: 127763
Ion Ratio Lower Upper
95 100
174 75.3 0.0 166.2
176 75.3 0.0 162.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 951
Delta R.T. -0.01 min
Lab File: VF059295.D
Acq: 23 Jun 2018 1:10

Tgt Ion: 117 Resp: 259497
Ion Ratio Lower Upper
117 100
82 59.6 47.1 70.7
119 34.5 26.9 40.3





#64

Tetrachloroethene

Concen: 605.935 ug/l

RT: 8.30 min Scan# 788

Delta R.T. -0.01 min

Lab File: VF059295.D

Acq: 23 Jun 2018 1:10

Instrument :

MSVOA_F

ClientSampleId :

S-4(3-3.5)

Tgt Ion:164 Resp: 1207593

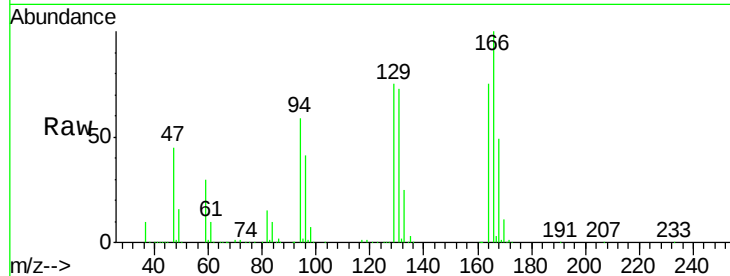
Ion Ratio Lower Upper

164 100

166 134.0 101.4 152.2

129 100.0 72.2 108.4

131 98.2 73.8 110.6

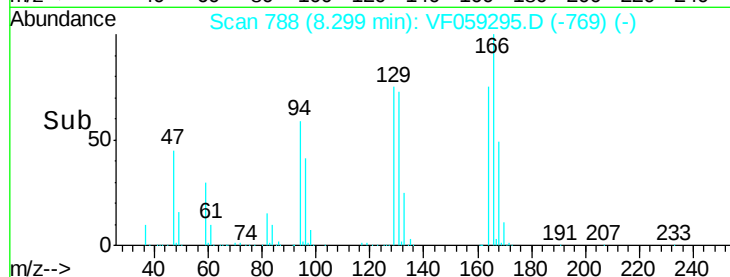


Abundance Ion 163.85 (163.55 to 164.55): V

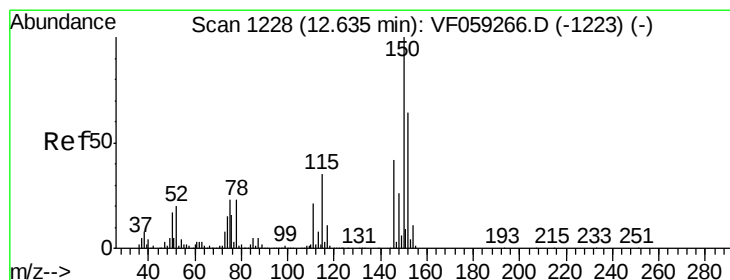
Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.63 min Scan# 1227

Delta R.T. -0.01 min

Lab File: VF059295.D

Acq: 23 Jun 2018 1:10

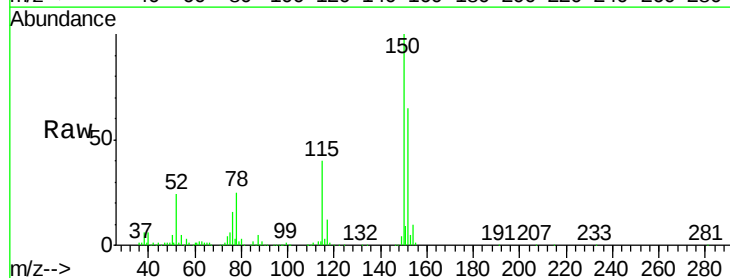
Tgt Ion:152 Resp: 132790

Ion Ratio Lower Upper

152 100

115 61.3 27.8 83.3

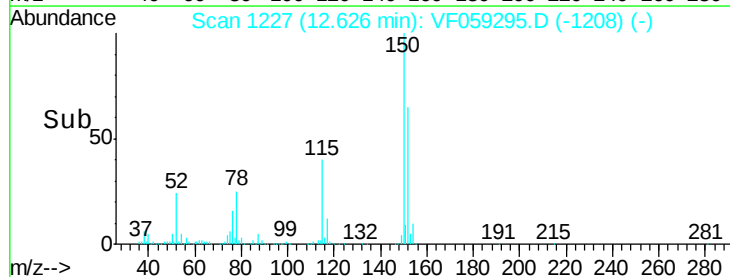
150 152.7 0.0 313.8



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



Time-->