

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF070518\
 Data File : VF059434.D
 Acq On : 5 Jul 2018 15:17
 Operator : VA/AP
 Sample : J3840-17RE
 Misc : 6.73g/5mL/MSVOA-F/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jul 06 02:04:55 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 26 08:45:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.02	168	232844	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.74	114	344773	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.89	117	329691	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.61	152	163553	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.99	65	171553	57.03	ug/l	-0.02
Spiked Amount			Recovery	=	114.06%	
35) Dibromofluoromethane	4.26	113	159714	63.40	ug/l	-0.02
Spiked Amount			Recovery	=	126.80%	
50) Toluene-d8	7.68	98	331821	53.20	ug/l	-0.02
Spiked Amount			Recovery	=	106.40%	
62) 4-Bromofluorobenzene	11.49	95	151843	43.16	ug/l	-0.02
Spiked Amount			Recovery	=	86.32%	

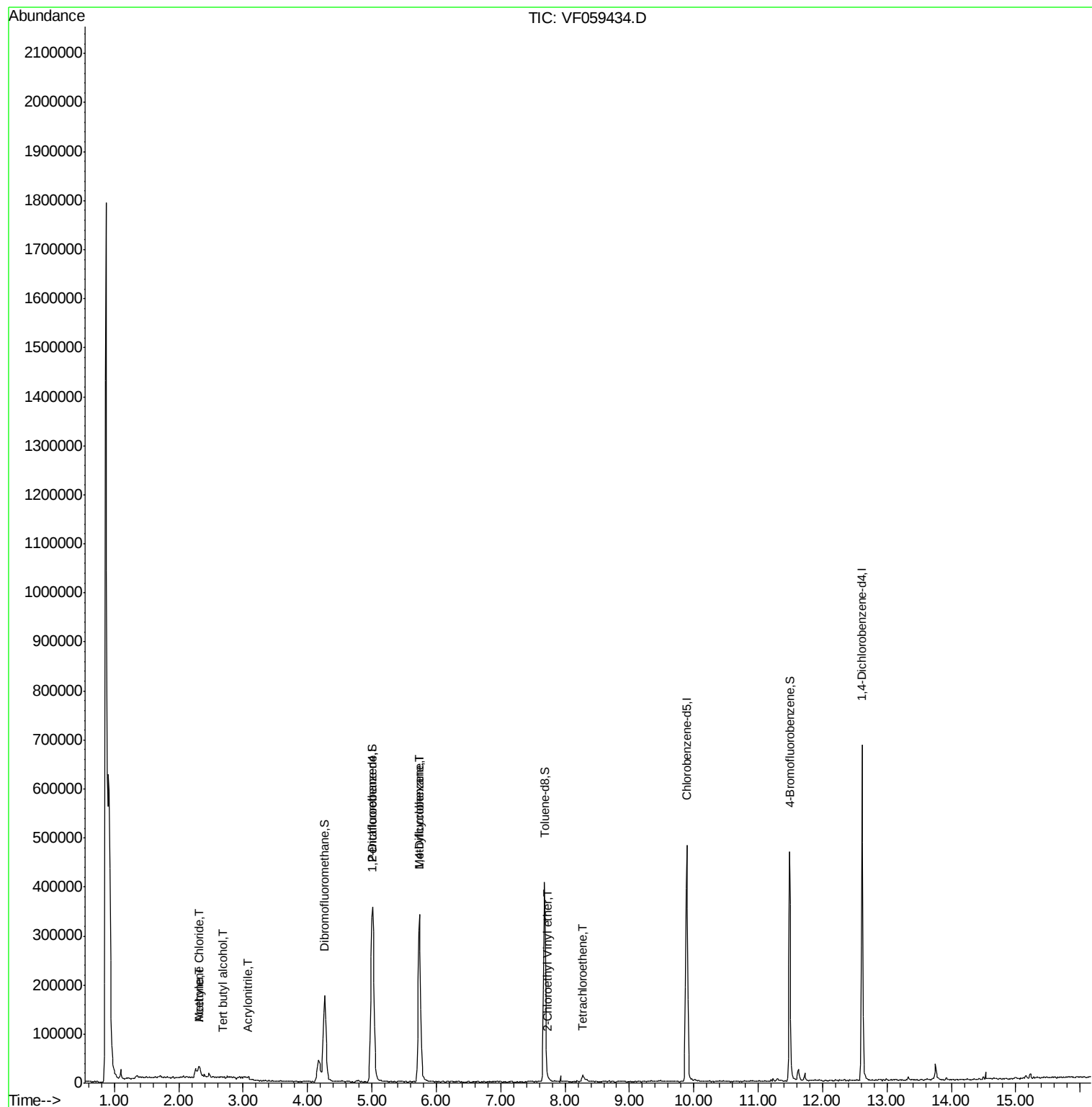
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.35	94	926	Below Cal	#	4
11) Tert butyl alcohol	2.68	59	1418	7.080	ug/l #	76
13) Acrolein	2.07	56	813	Below Cal	#	38
15) Acrylonitrile	3.08	53	555	1.574	ug/l #	64
16) Acetone	2.33	43	12092	6.146	ug/l #	83
18) Methyl Acetate	2.60	43	1137	Below Cal		96
20) Methylene Chloride	2.30	84	14699	1.553	ug/l #	92
25) 2-Butanone	4.49	43	2133	Below Cal	#	59
28) Bromochloromethane	4.01	49	297	Below Cal	#	6
29) Tetrahydrofuran	4.25	42	474	Below Cal	#	93
37) Ethyl Acetate	4.28	43	325	Below Cal	#	26
39) Methylcyclohexane	5.74	83	4849	1.817	ug/l #	44
49) 1,4-Dioxane	6.85	88	63	Below Cal	#	20
58) 2-Chloroethyl Vinyl ether	7.74	63	214	1.187	ug/l	100
59) 2-Hexanone	9.57	43	944	Below Cal		81
64) Tetrachloroethene	8.27	164	3662	1.713	ug/l #	79
87) 1,3-Dichlorobenzene	12.53	146	310	Below Cal	#	45

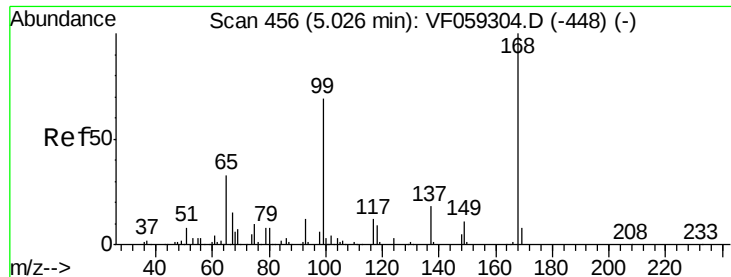
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jun 26 08:45:17 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.02 min Scan# 455

Delta R.T. -0.01 min

Lab File: VF059434.D

Acq: 5 Jul 2018 15:17

Instrument :

MSVOA_F

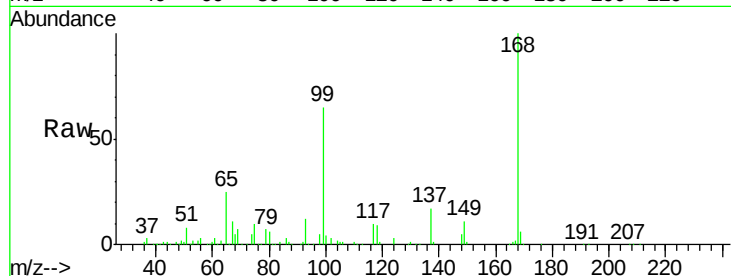
ClientSampleId :

Tot Ion:168 Resp: 232844

Ion Ratio Lower Upper

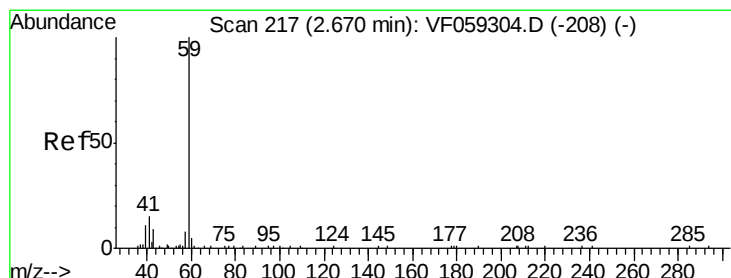
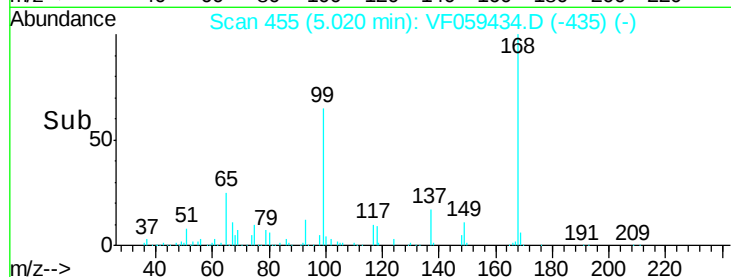
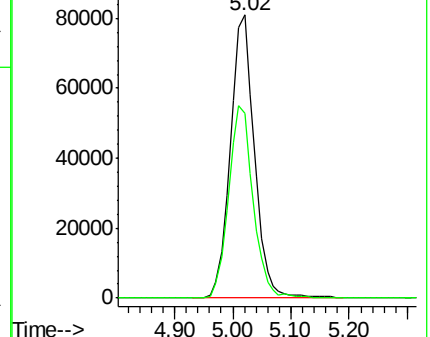
168 100

99 65.2 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#11

Tert butyl alcohol

Concen: 7.080 ug/l

RT: 2.68 min Scan# 218

Delta R.T. 0.01 min

Lab File: VF059434.D

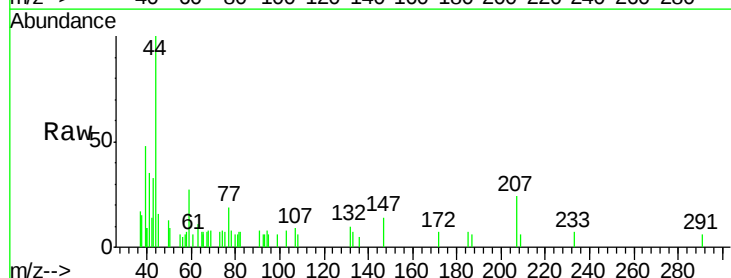
Acq: 5 Jul 2018 15:17

Tgt Ion: 59 Resp: 1418

Ion Ratio Lower Upper

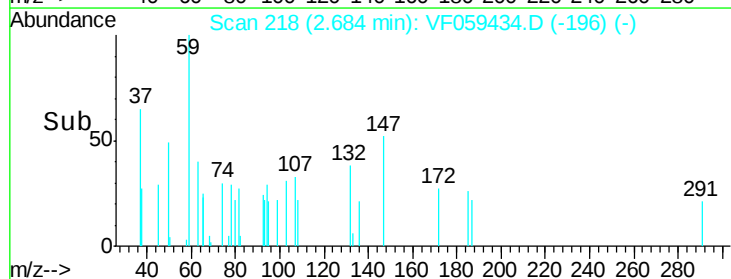
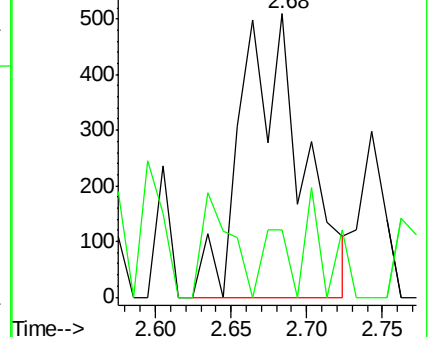
59 100

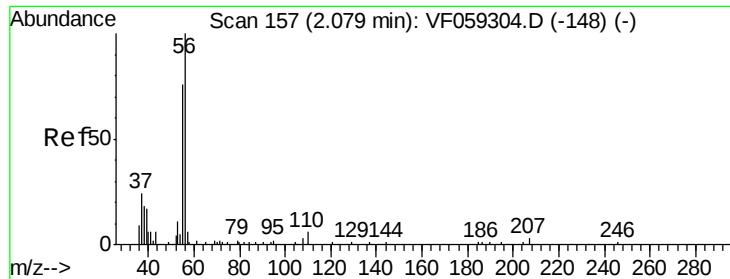
57 23.6 11.0 16.4#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0





#13

Acrolein

Concen: Below Cal

RT: 2.07 min Scan# 156

Delta R.T. -0.01 min

Lab File: VF059434.D

Acq: 5 Jul 2018 15:17

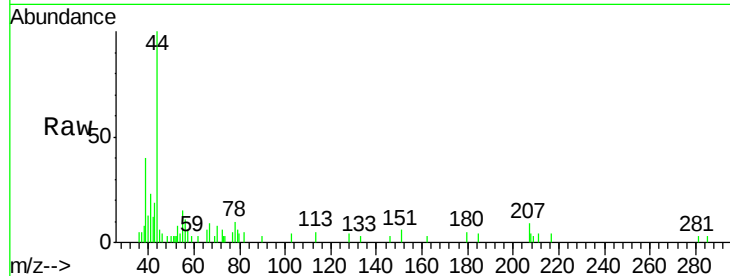
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 56 Resp: 813

Ion Ratio Lower Upper

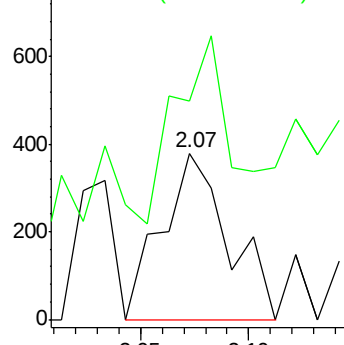
56 100

55 131.7 62.4 93.6#

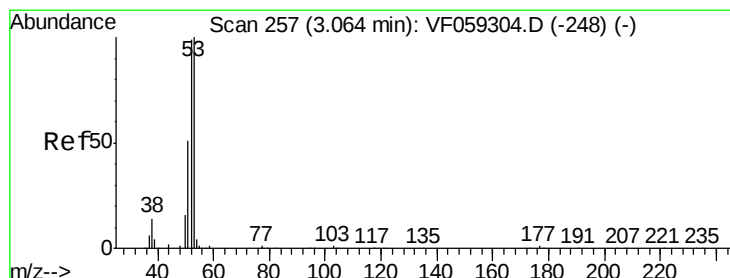
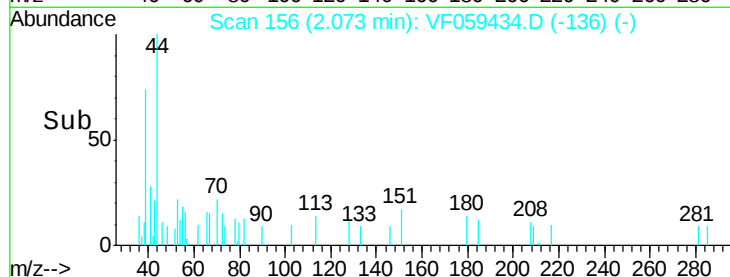


Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



Time-->



#15

Acrylonitrile

Concen: 1.574 ug/l

RT: 3.08 min Scan# 258

Delta R.T. 0.01 min

Lab File: VF059434.D

Acq: 5 Jul 2018 15:17

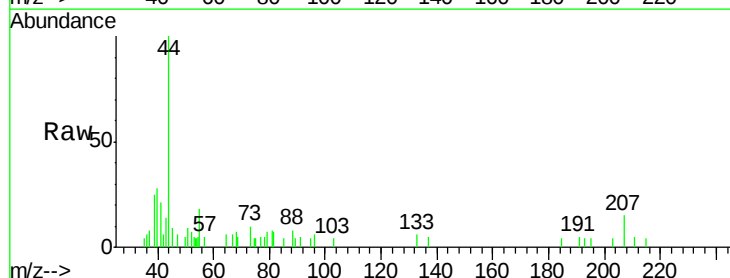
Tgt Ion: 53 Resp: 555

Ion Ratio Lower Upper

53 100

52 75.5 79.2 118.8#

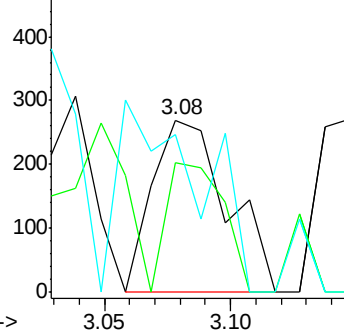
51 91.8 40.9 61.3#



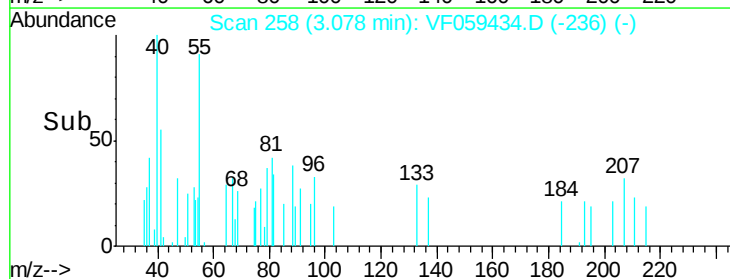
Abundance Ion 53.00 (52.70 to 53.70): VF0

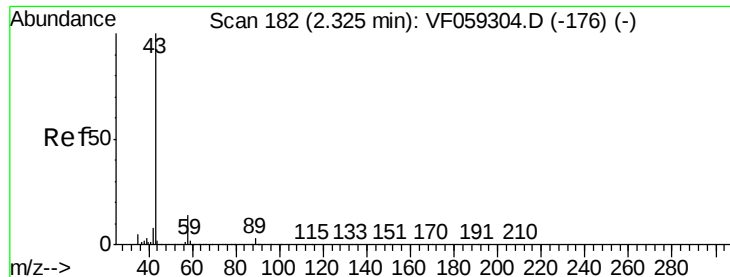
Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



Time-->

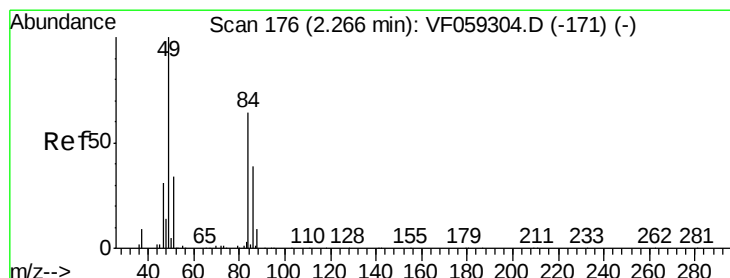
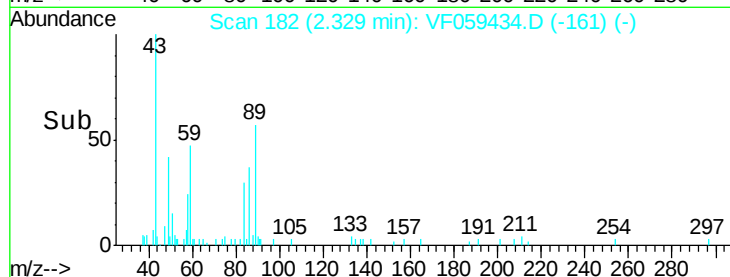
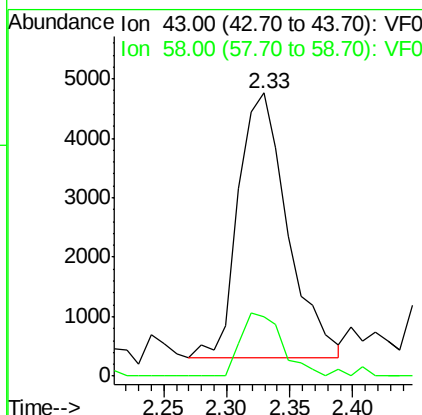
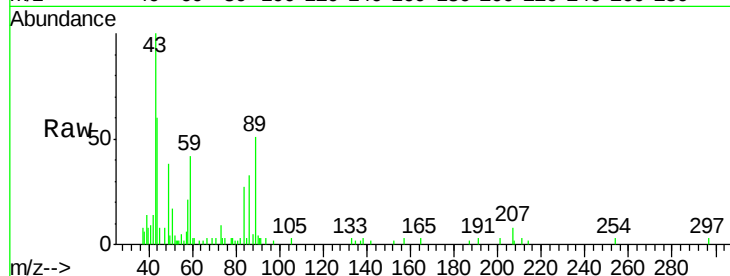




#16
Acetone
Concen: 6.146 ug/l
RT: 2.33 min Scan# 182
Delta R.T. 0.00 min
Lab File: VF059434.D
Acq: 5 Jul 2018 15:17

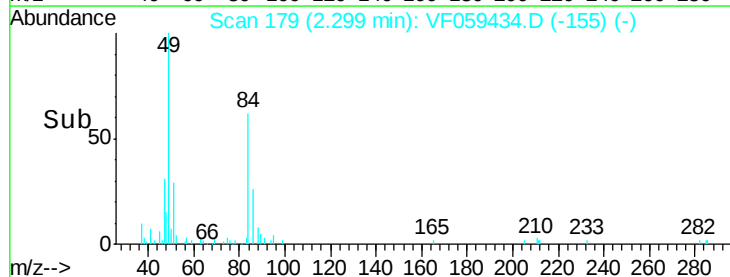
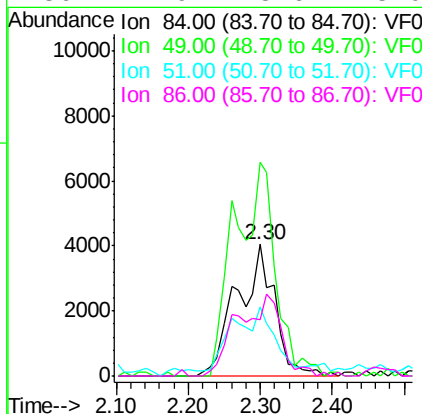
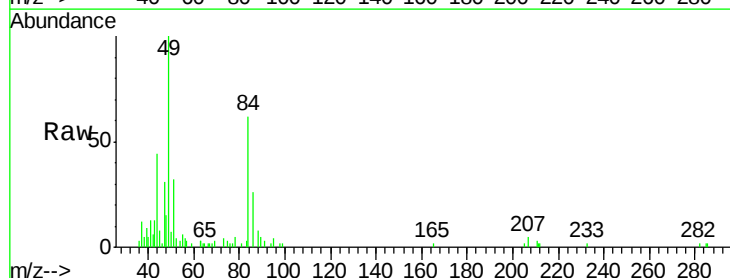
Instrument :
MSVOA_F
ClientSampleId :

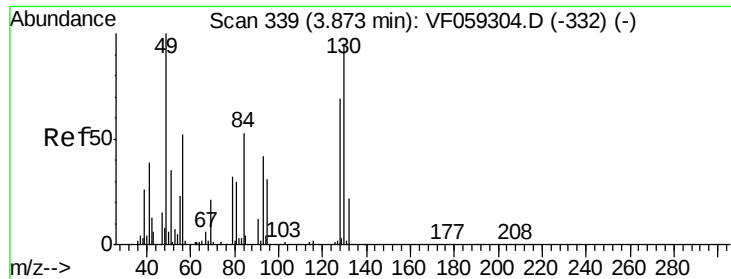
Tot Ion: 43 Resp: 12092
Ion Ratio Lower Upper
43 100
58 21.2 11.4 17.0#



#20
Methylene Chloride
Concen: 1.553 ug/l
RT: 2.30 min Scan# 179
Delta R.T. 0.03 min
Lab File: VF059434.D
Acq: 5 Jul 2018 15:17

Tgt Ion: 84 Resp: 14699
Ion Ratio Lower Upper
84 100
49 162.4 126.5 189.7
51 52.3 42.9 64.3
86 42.9 48.6 73.0#

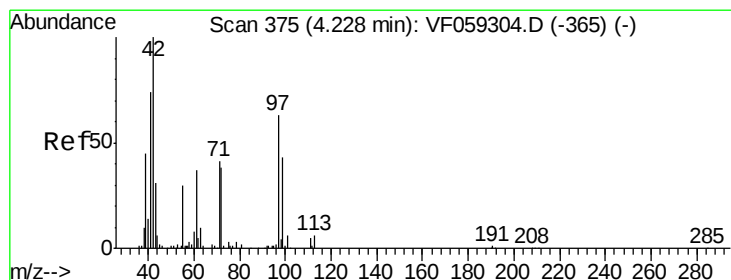
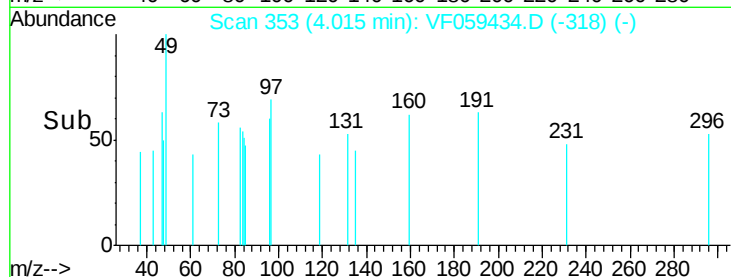
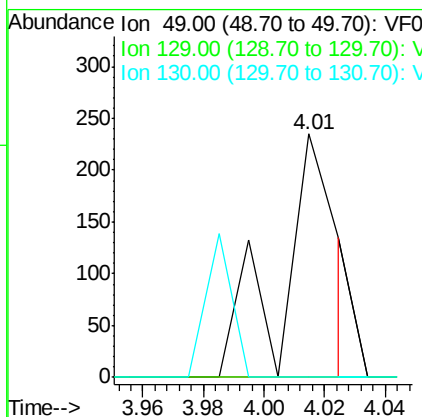
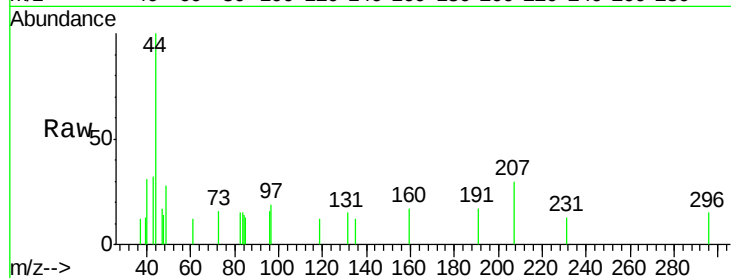




#28
Bromochloromethane
Concen: Below Cal
RT: 4.01 min Scan# 353
Delta R.T. 0.14 min
Lab File: VF059434.D
Acq: 5 Jul 2018 15:17

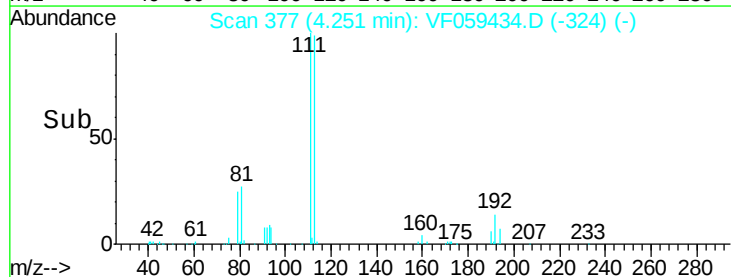
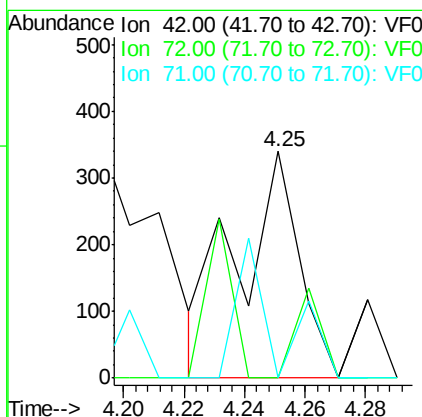
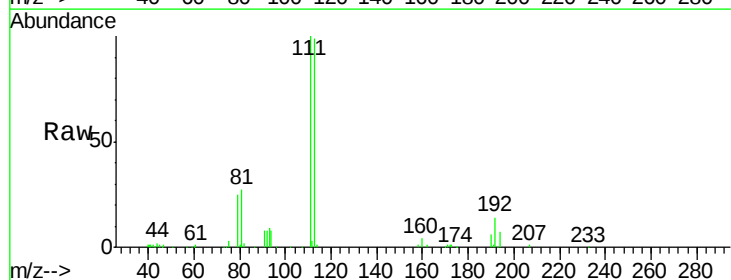
Instrument :
MSVOA_F
ClientSampled :

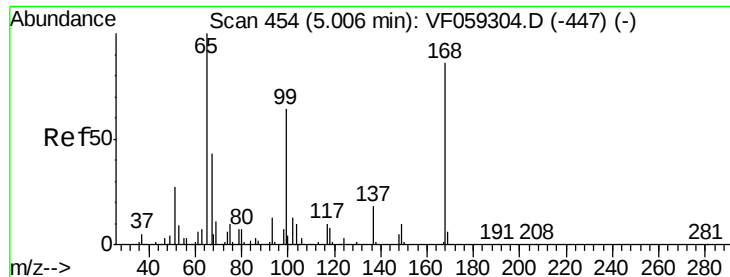
Tot Ion: 49 Resp: 297
Ion Ratio Lower Upper
49 100
129 0.0 0.0 6.4
130 0.0 75.1 112.7#



#29
Tetrahydrofuran
Concen: Below Cal
RT: 4.25 min Scan# 377
Delta R.T. 0.02 min
Lab File: VF059434.D
Acq: 5 Jul 2018 15:17

Tgt Ion: 42 Resp: 474
Ion Ratio Lower Upper
42 100
72 29.7 30.5 45.7#
71 40.5 32.5 48.7





#33

1,2-Dichloroethane-d4

Concen: 57.026 ug/l

RT: 4.99 min Scan# 452

Delta R.T. -0.02 min

Lab File: VF059434.D

Acq: 5 Jul 2018 15:17

Instrument :

MSVOA_F

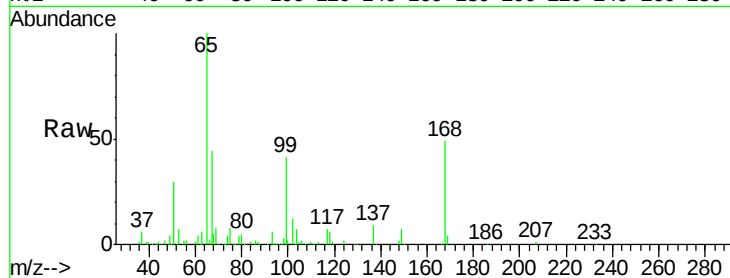
ClientSampleId :

Tot Ion: 65 Resp: 171553

Ion Ratio Lower Upper

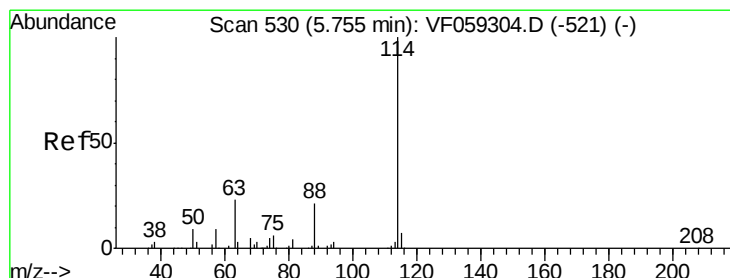
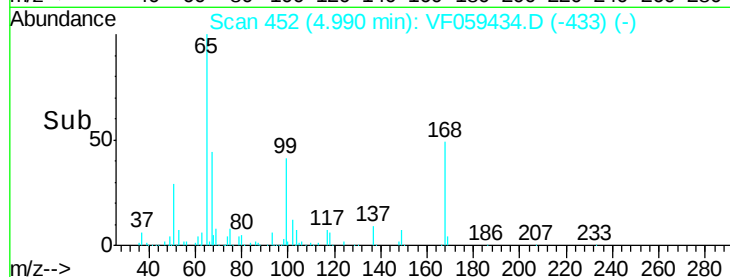
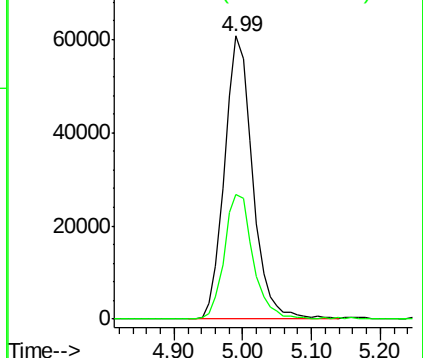
65 100

67 44.1 0.0 96.8



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: 5.74 min Scan# 528

Delta R.T. -0.02 min

Lab File: VF059434.D

Acq: 5 Jul 2018 15:17

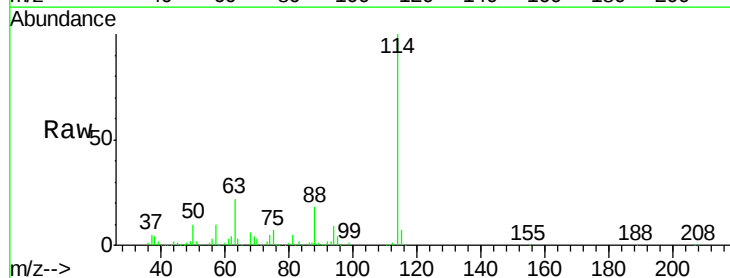
Tgt Ion: 114 Resp: 344773

Ion Ratio Lower Upper

114 100

63 22.2 0.0 45.8

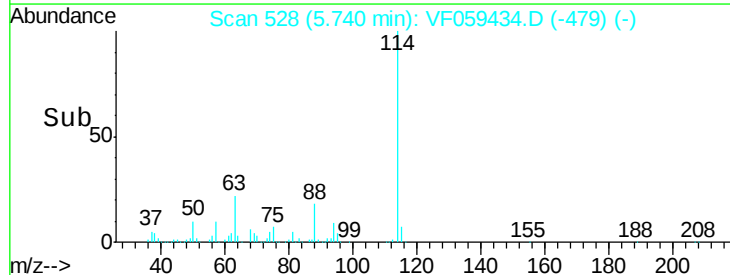
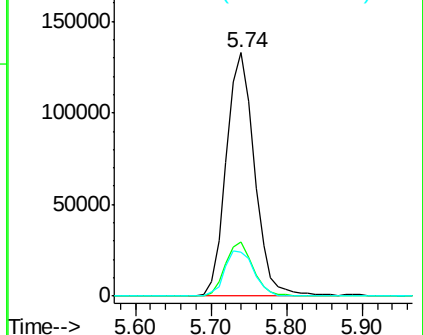
88 18.1 0.0 41.2

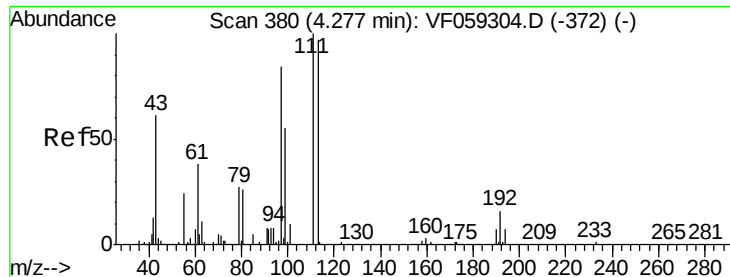


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0





#35

Dibromofluoromethane

Concen: 63.400 ug/l

RT: 4.26 min Scan# 378

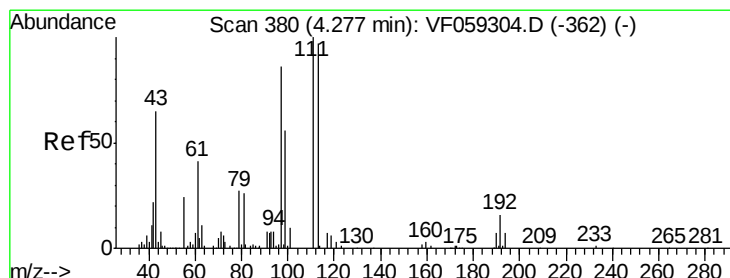
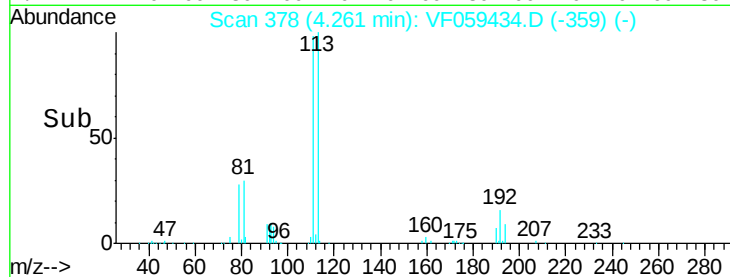
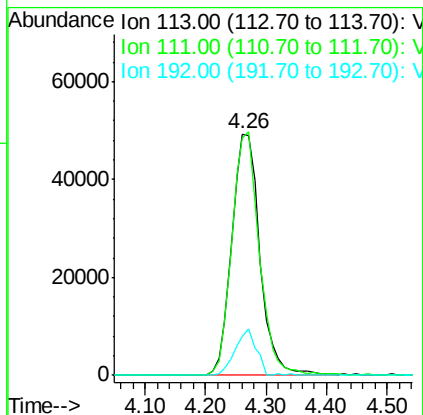
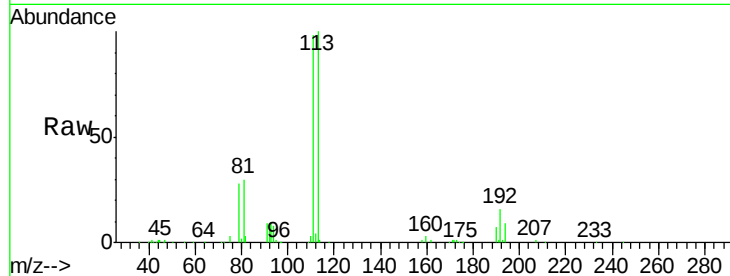
Delta R.T. -0.02 min

Lab File: VF059434.D

Acq: 5 Jul 2018 15:17

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:	113	Resp:	159714
Ion	Ratio	Lower	Upper
113	100		
111	98.4	82.1	123.1
192	15.8	13.0	19.6



#37

Ethyl Acetate

Concen: Below Cal

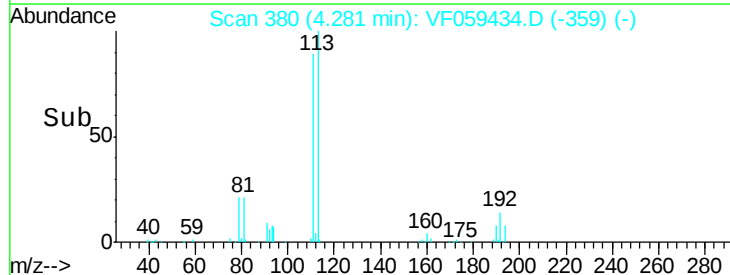
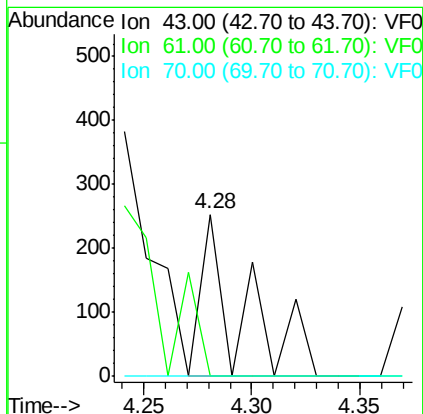
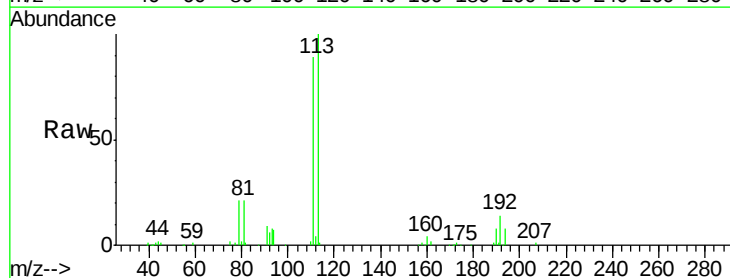
RT: 4.28 min Scan# 380

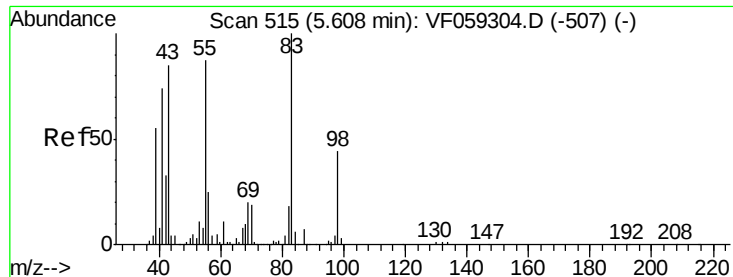
Delta R.T. 0.00 min

Lab File: VF059434.D

Acq: 5 Jul 2018 15:17

Tgt Ion:	43	Resp:	325
Ion	Ratio	Lower	Upper
43	100		
61	0.0	50.1	75.1#
70	0.0	6.2	9.4#

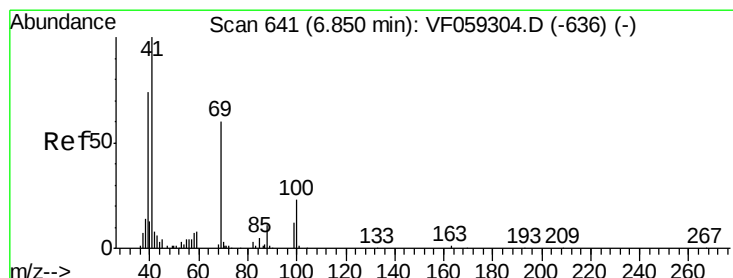
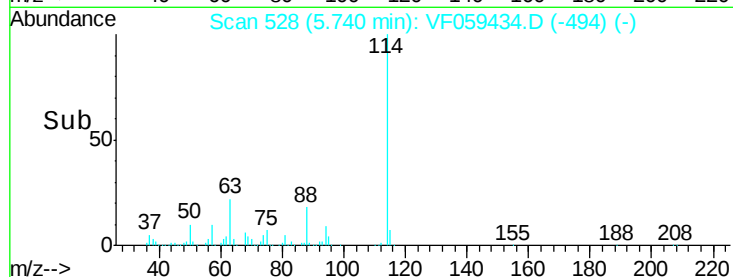
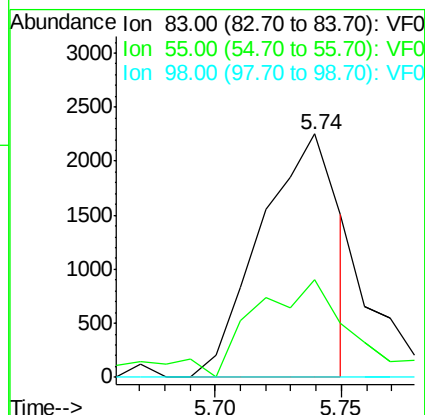
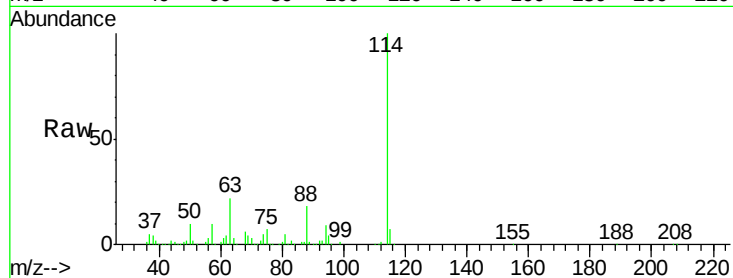




#39
Methvlcvclohexane
Concen: 1.817 ug/l
RT: 5.74 min Scan# 528
Delta R.T. 0.13 min
Lab File: VF059434.D
Acq: 5 Jul 2018 15:17

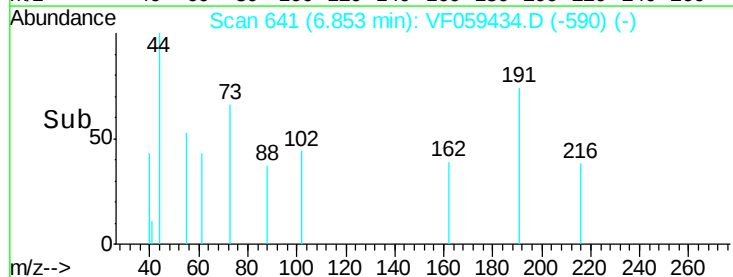
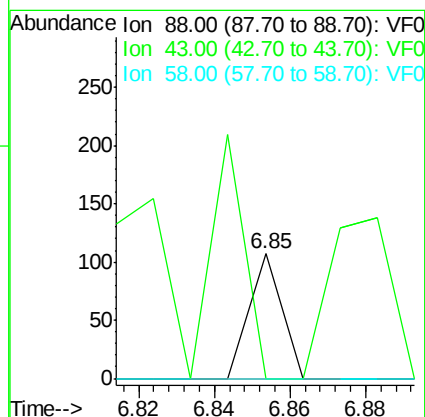
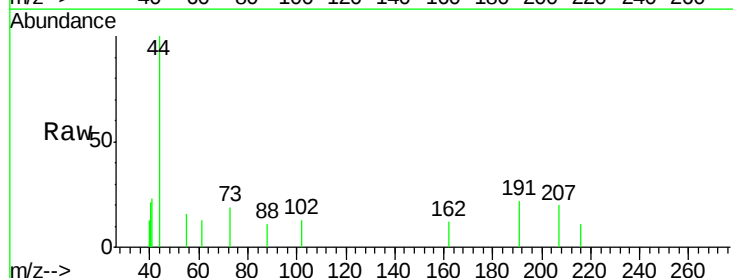
Instrument :
MSVOA_F
ClientSampled :

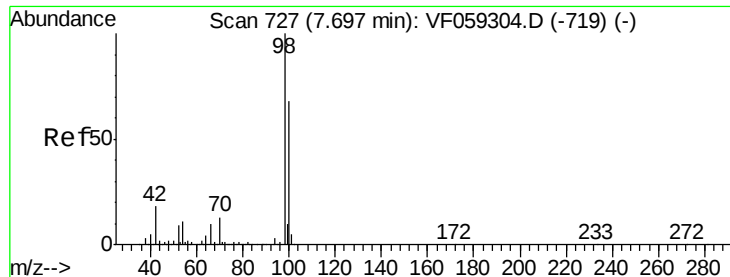
Tot Ion: 83 Resp: 4849
Ion Ratio Lower Upper
83 100
55 40.0 69.2 103.8#
98 0.0 35.0 52.6#



#49
1,4-Dioxane
Concen: Below Cal
RT: 6.85 min Scan# 641
Delta R.T. 0.00 min
Lab File: VF059434.D
Acq: 5 Jul 2018 15:17

Tgt Ion: 88 Resp: 63
Ion Ratio Lower Upper
88 100
43 0.0 50.6 75.8#
58 0.0 46.6 69.8#





#50

Toluene-d8

Concen: 53.201 ug/l

RT: 7.68 min Scan# 725

Delta R.T. -0.02 min

Lab File: VF059434.D

Acq: 5 Jul 2018 15:17

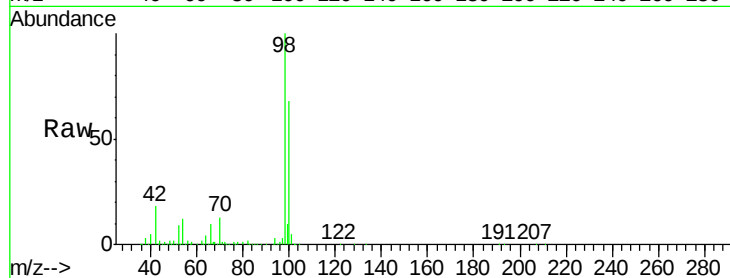
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 98 Resp: 331821

Ion Ratio Lower Upper

98 100

100 68.4 54.6 82.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF

7.68

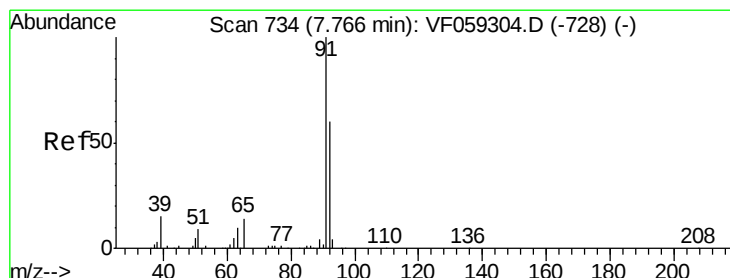
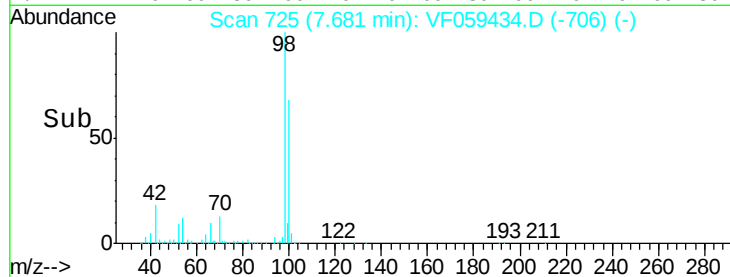
150000

100000

50000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 1.187 ug/l

RT: 7.74 min Scan# 731

Delta R.T. -0.03 min

Lab File: VF059434.D

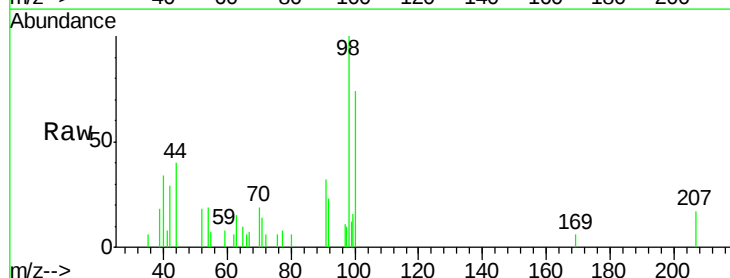
Acq: 5 Jul 2018 15:17

Tgt Ion: 63 Resp: 214

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

7.74

300

250

200

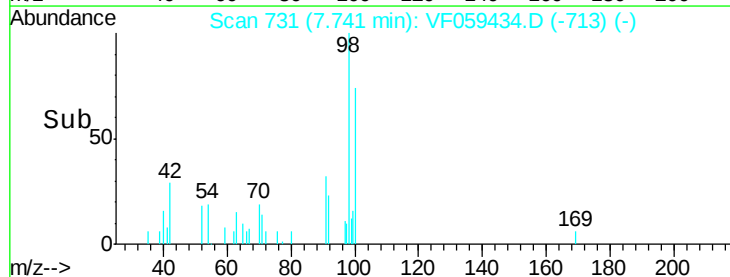
150

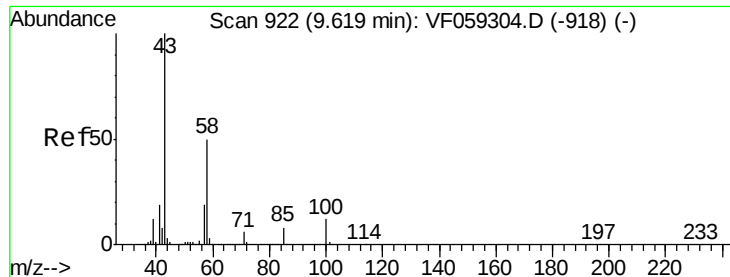
100

50

0

Time-->





#59

2-Hexanone

Concen: Below Cal

RT: 9.57 min Scan# 917

Delta R.T. -0.04 min

Lab File: VF059434.D

Acq: 5 Jul 2018 15:17

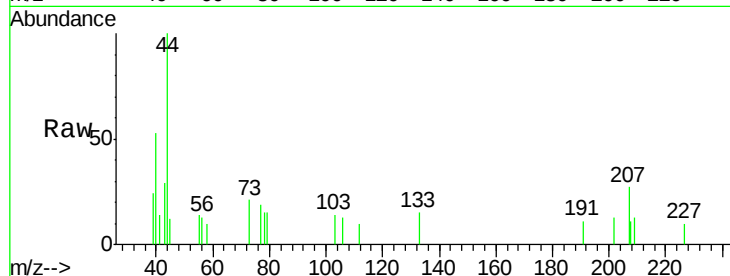
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 944

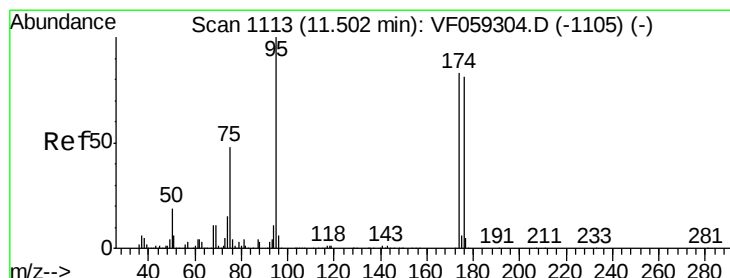
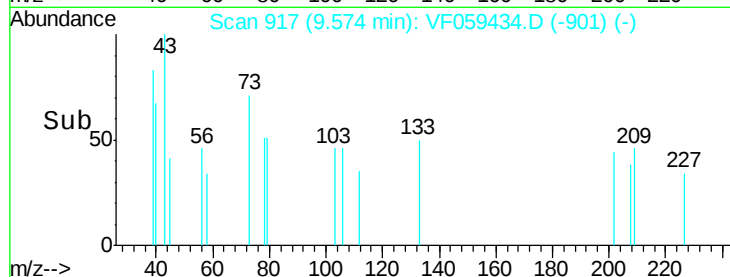
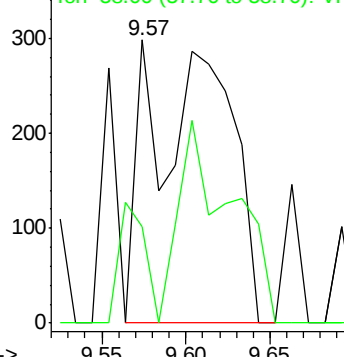
Ion Ratio Lower Upper

43 100

58 34.2 23.3 69.9



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



#62

4-Bromofluorobenzene

Concen: 43.158 ug/l

RT: 11.49 min Scan# 1111

Delta R.T. -0.02 min

Lab File: VF059434.D

Acq: 5 Jul 2018 15:17

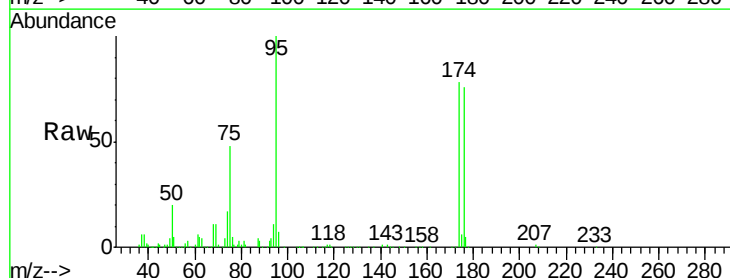
Tgt Ion: 95 Resp: 151843

Ion Ratio Lower Upper

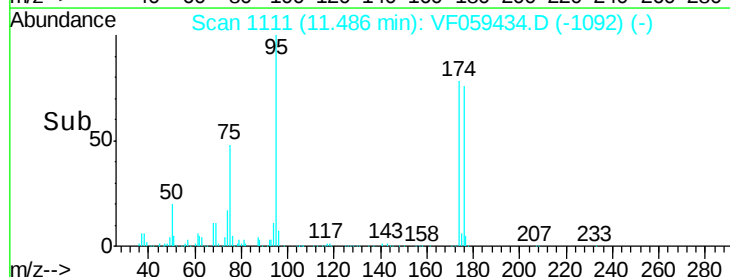
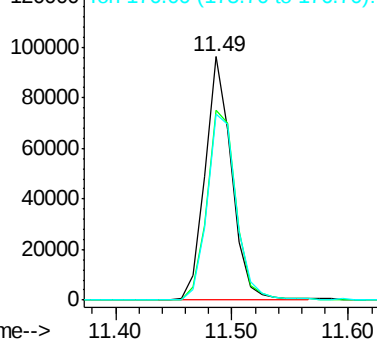
95 100

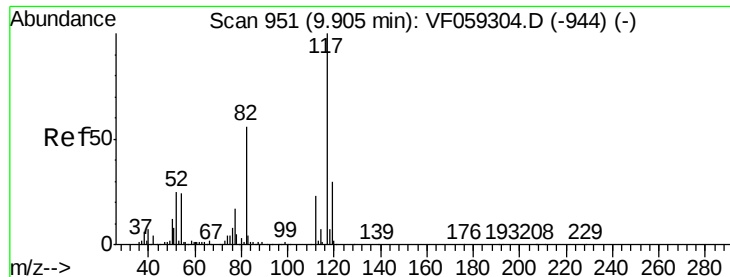
174 77.8 0.0 165.2

176 76.2 0.0 161.0



Abundance Ion 95.00 (94.70 to 95.70): VF0
Ion 174.00 (173.70 to 174.70): V
Ion 176.00 (175.70 to 176.70): V

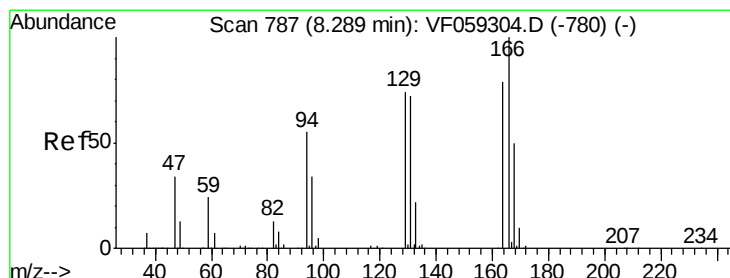
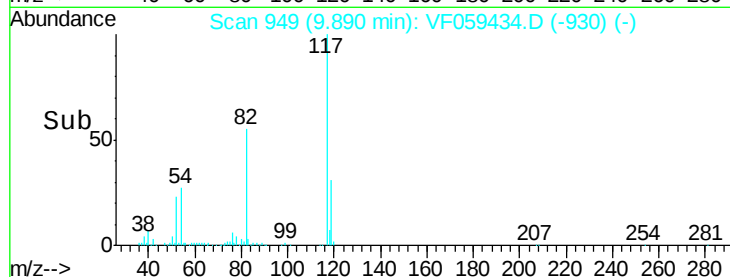
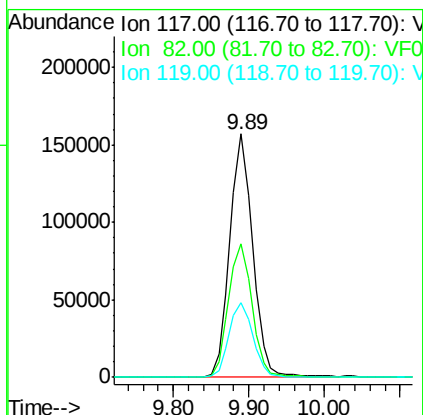
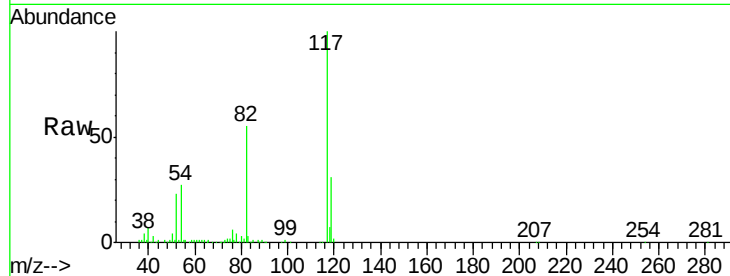




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.89 min Scan# 949
Delta R.T. -0.02 min
Lab File: VF059434.D
Acq: 5 Jul 2018 15:17

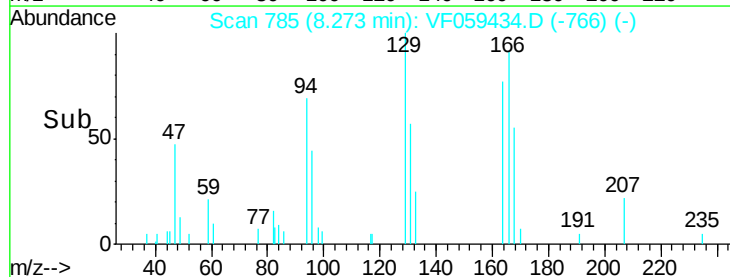
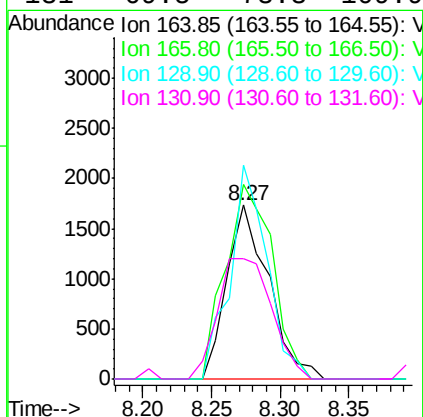
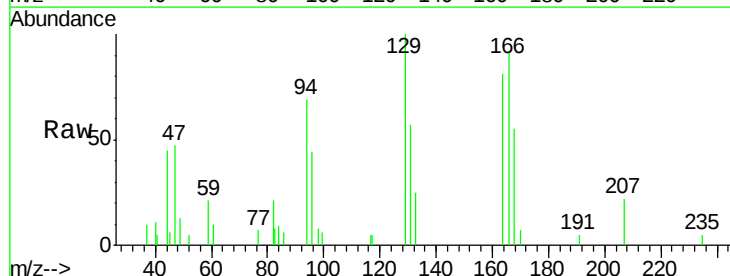
Instrument :
MSVOA_F
ClientSampleId :

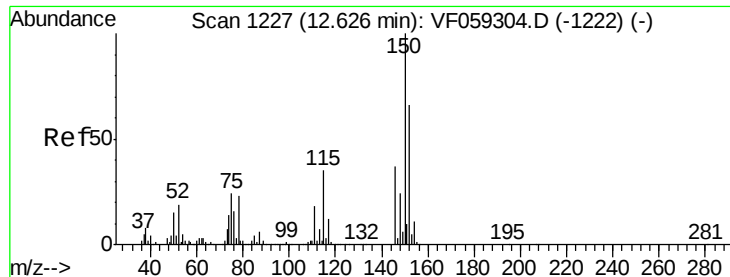
Tot Ion:117 Resp: 329691
Ion Ratio Lower Upper
117 100
82 54.9 44.6 66.8
119 30.7 24.1 36.1



#64
Tetrachloroethene
Concen: 1.713 ug/l
RT: 8.27 min Scan# 785
Delta R.T. -0.02 min
Lab File: VF059434.D
Acq: 5 Jul 2018 15:17

Tgt Ion:164 Resp: 3662
Ion Ratio Lower Upper
164 100
166 111.6 101.1 151.7
129 122.8 75.0 112.4#
131 69.5 73.3 109.9#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.61 min Scan# 1225

Delta R.T. -0.02 min

Lab File: VF059434.D

Acq: 5 Jul 2018 15:17

Instrument :

MSVOA_F

ClientSampleId :

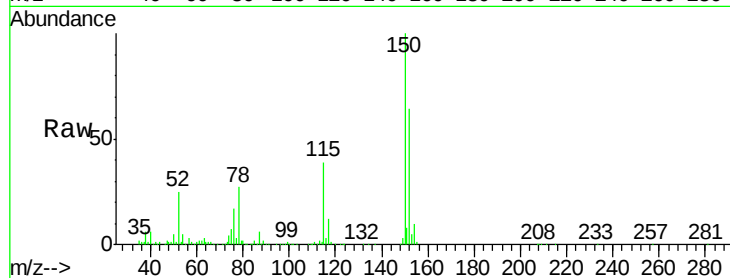
Tot Ion:152 Resp: 163553

Ion Ratio Lower Upper

152 100

115 60.4 27.1 81.3

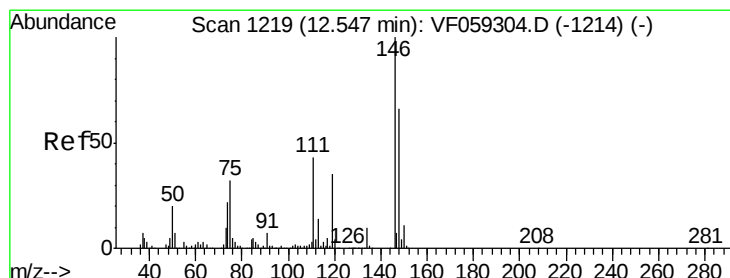
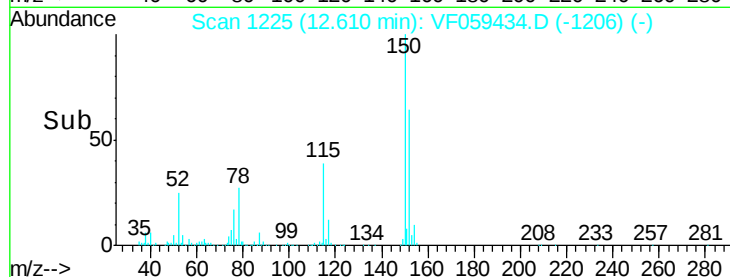
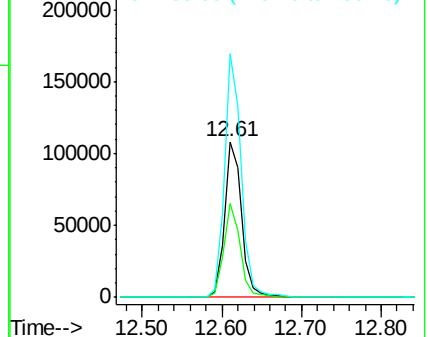
150 156.6 0.0 305.2



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



#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 12.53 min Scan# 1217

Delta R.T. -0.02 min

Lab File: VF059434.D

Acq: 5 Jul 2018 15:17

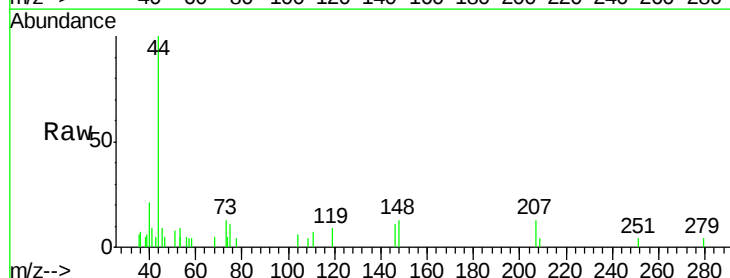
Tgt Ion:146 Resp: 310

Ion Ratio Lower Upper

146 100

111 65.9 21.4 64.2#

148 119.1 32.8 98.4#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

