

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121718\
 Data File : VF061043.D
 Acq On : 17 Dec 2018 16:29
 Operator : VA/AP
 Sample : J6319-08RE
 Misc : 3.80g/5mL/MSVOA-F/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 18 03:08:35 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 27 01:36:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.89	168	56343	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.62	114	89184	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.79	117	71395	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.56	152	36241	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.86	65	18963	28.57	ug/l	-0.02
Spiked Amount			Recovery	=	57.14%	
35) Dibromofluoromethane	4.13	113	23692	33.49	ug/l	-0.02
Spiked Amount			Recovery	=	66.98%	
50) Toluene-d8	7.57	98	68055	32.65	ug/l	-0.02
Spiked Amount			Recovery	=	65.30%	
62) 4-Bromofluorobenzene	11.43	95	28455	30.04	ug/l	-0.01
Spiked Amount			Recovery	=	60.08%	

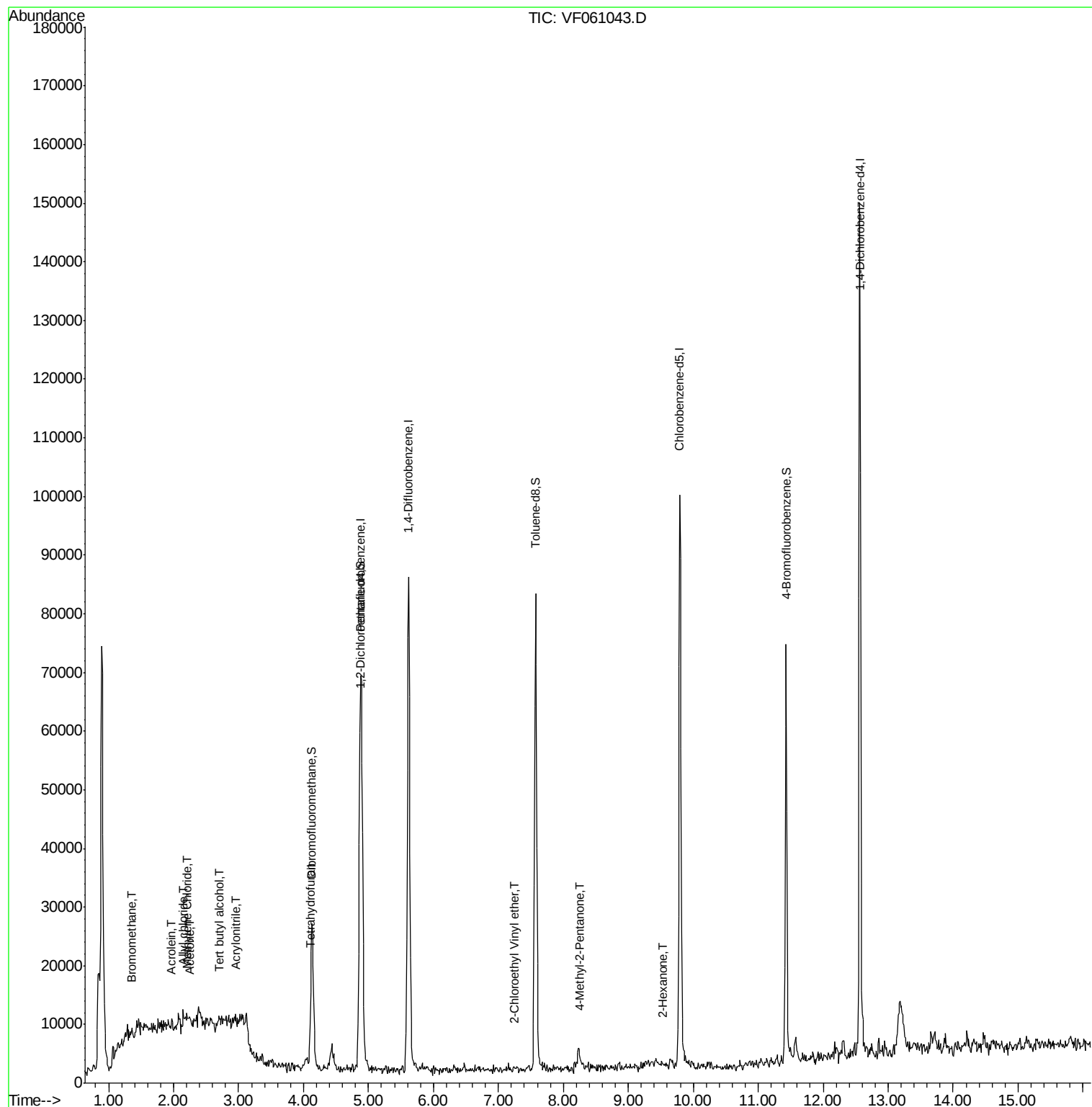
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.37	94	429	1.190	ug/l #	38
11) Tert butyl alcohol	2.69	59	74	2.720	ug/l #	1
13) Acrolein	1.96	56	156	6.051	ug/l #	67
14) Allyl chloride	2.14	41	589	1.059	ug/l #	49
15) Acrylonitrile	2.95	53	620	10.164	ug/l #	11
16) Acetone	2.26	43	1363	11.136	ug/l	94
20) Methylene Chloride	2.20	84	497	1.107	ug/l	87
29) Tetrahydrofuran	4.10	42	134	1.493	ug/l #	37
41) Methacrylonitrile	4.74	41	572	Below Cal	#	54
43) Isopropyl Acetate	6.96	43	386	Below Cal	#	49
51) 4-Methyl-2-Pentanone	8.26	43	578	1.559	ug/l #	38
58) 2-Chloroethyl Vinyl ether	7.26	63	76	1.495	ug/l #	46
59) 2-Hexanone	9.53	43	511	1.965	ug/l	77
95) Naphthalene	14.47	128	1754	Below Cal	#	61

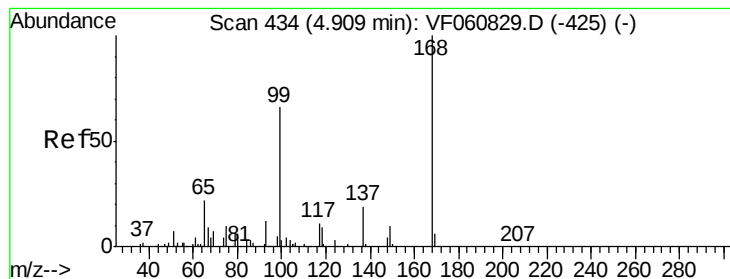
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF121718\
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Quant Time: Dec 18 03:08:35 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 27 01:36:26 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.89 min Scan# 432

Delta R.T. -0.02 min

Lab File: VF061043.D

Acq: 17 Dec 2018 16:29

Instrument :

MSVOA_F

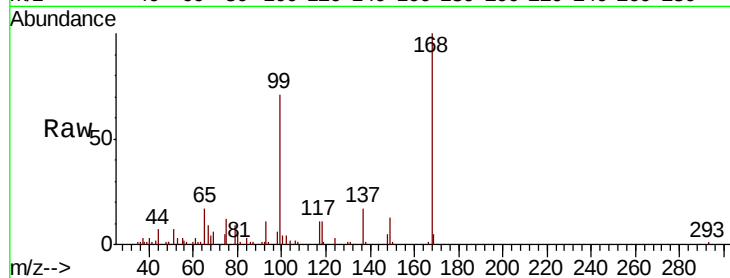
ClientSampleId :

Tot Ion:168 Resp: 56343

Ion Ratio Lower Upper

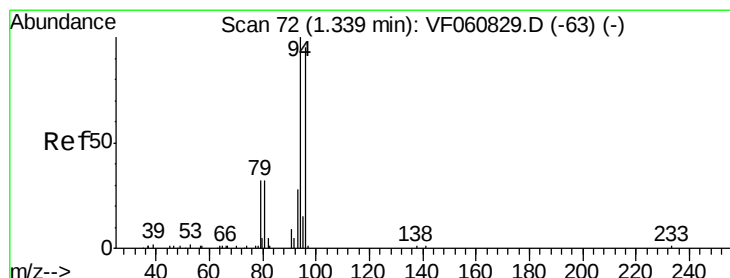
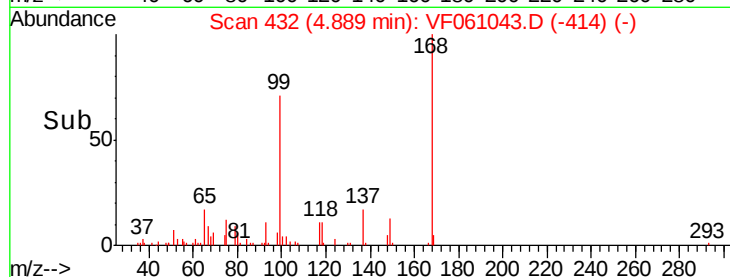
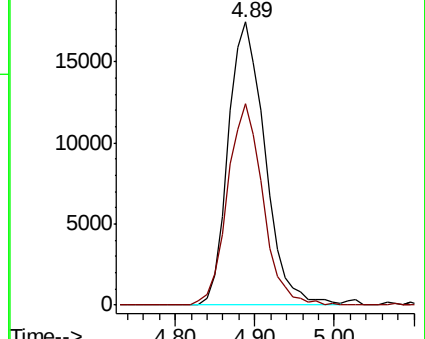
168 100

99 71.3 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#5

Bromomethane

Concen: 1.190 ug/l

RT: 1.37 min Scan# 75

Delta R.T. 0.03 min

Lab File: VF061043.D

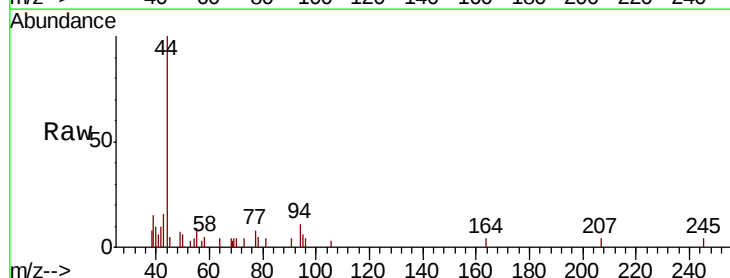
Acq: 17 Dec 2018 16:29

Tgt Ion: 94 Resp: 429

Ion Ratio Lower Upper

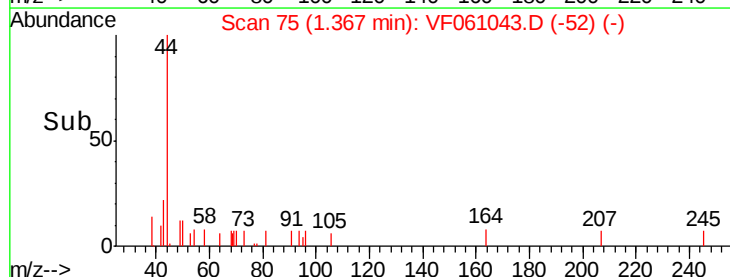
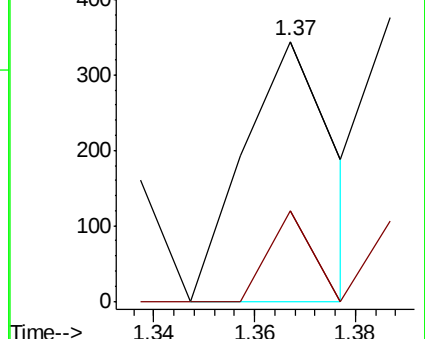
94 100

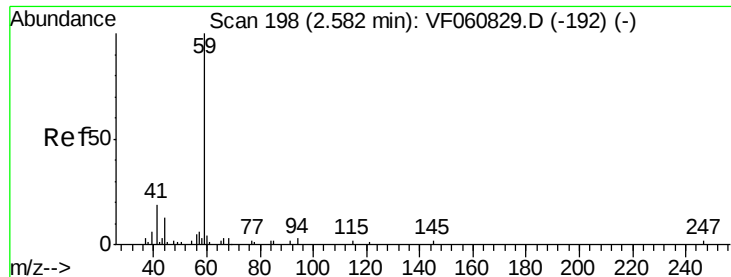
96 34.6 75.9 113.9#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



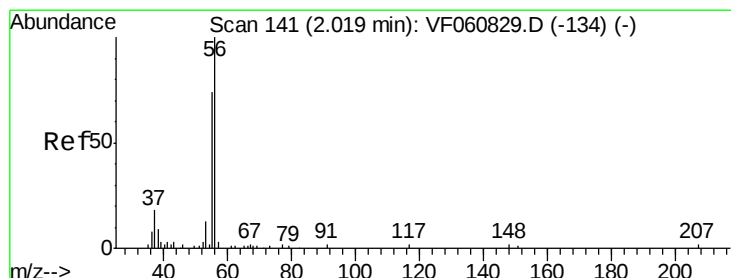
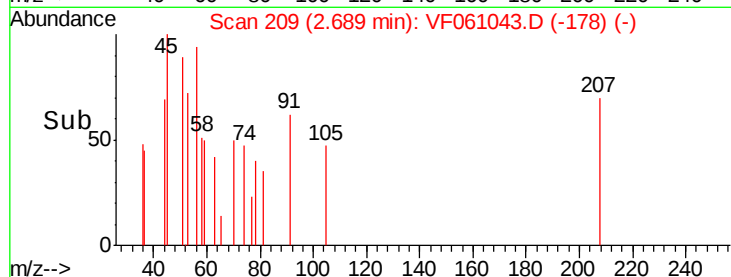
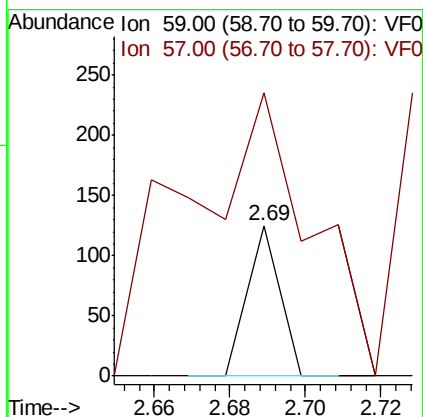
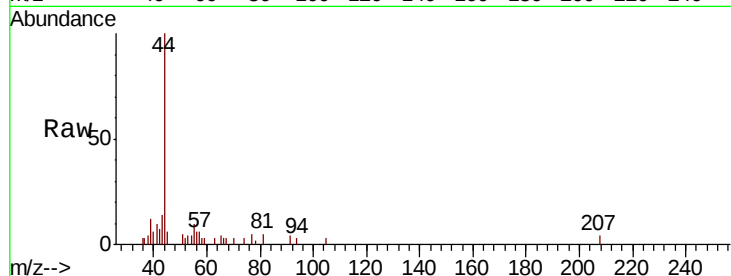


#11

Tert butyl alcohol
Concen: 2.720 ug/l
RT: 2.69 min Scan# 209
Delta R.T. 0.11 min
Lab File: VF061043.D
Acq: 17 Dec 2018 16:29

Instrument :
MSVOA_F
ClientSampled :

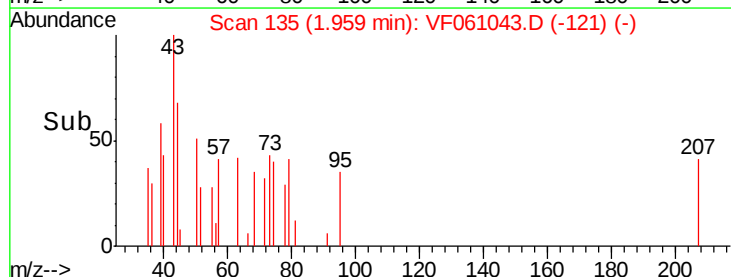
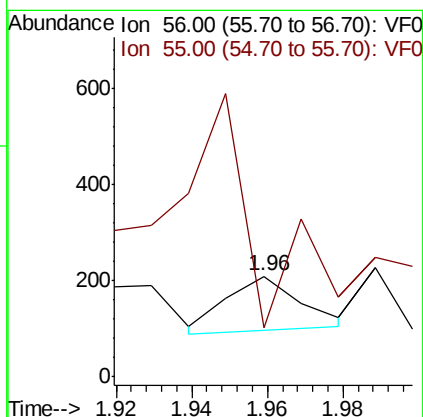
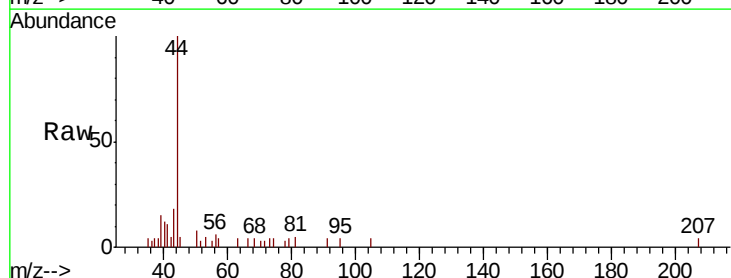
Tot Ion: 59 Resp: 74
Ion Ratio Lower Upper
59 100
57 188.0 12.7 19.1#

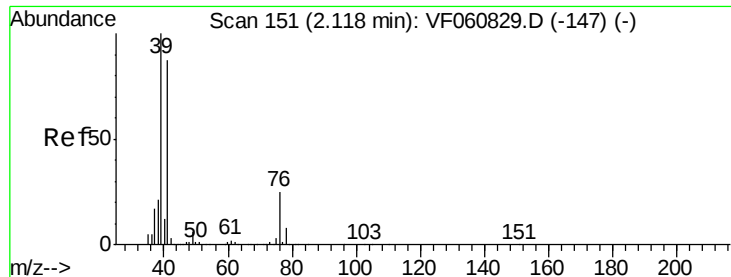


#13

Acrolein
Concen: 6.051 ug/l
RT: 1.96 min Scan# 135
Delta R.T. -0.06 min
Lab File: VF061043.D
Acq: 17 Dec 2018 16:29

Tgt Ion: 56 Resp: 156
Ion Ratio Lower Upper
56 100
55 48.3 61.2 91.8#

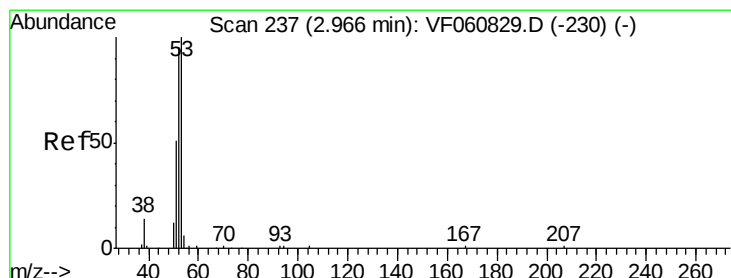
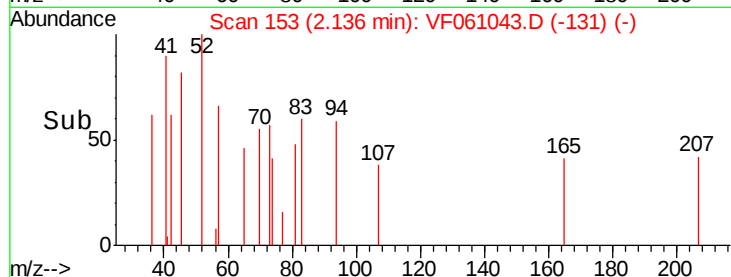
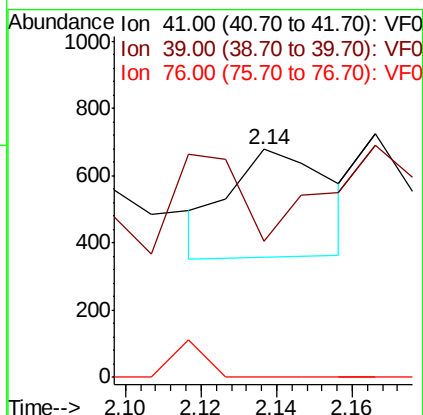
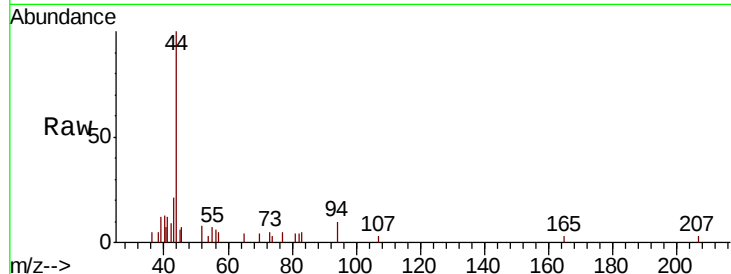




#14
Allvl chloride
Concen: 1.059 ug/l
RT: 2.14 min Scan# 153
Delta R.T. 0.02 min
Lab File: VF061043.D
Acq: 17 Dec 2018 16:29

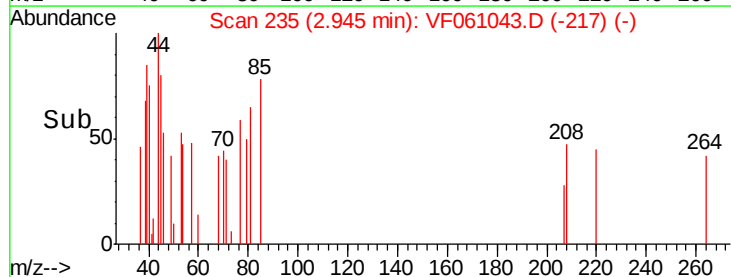
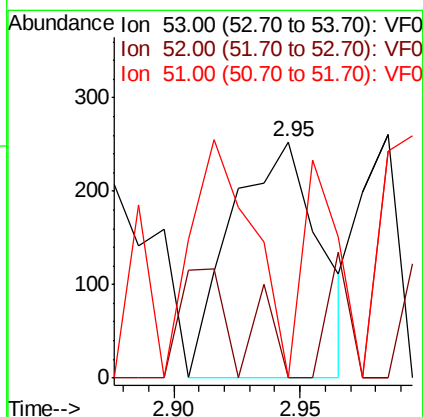
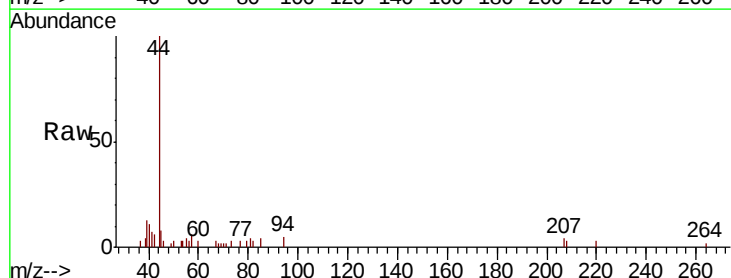
Instrument :
MSVOA_F
ClientSampleId :

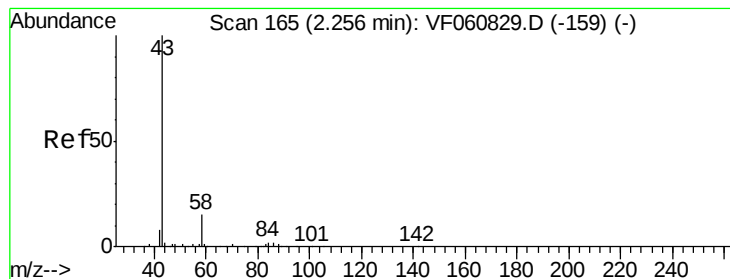
Tot Ion: 41 Resp: 589
Ion Ratio Lower Upper
41 100
39 59.9 91.7 137.5#
76 0.0 23.5 35.3#



#15
Acrylonitrile
Concen: 10.164 ug/l
RT: 2.95 min Scan# 235
Delta R.T. -0.02 min
Lab File: VF061043.D
Acq: 17 Dec 2018 16:29

Tgt Ion: 53 Resp: 620
Ion Ratio Lower Upper
53 100
52 0.0 76.5 114.7#
51 0.0 40.7 61.1#





#16

Acetone

Concen: 11.136 ug/l

RT: 2.26 min Scan# 166

Delta R.T. 0.01 min

Lab File: VF061043.D

Acq: 17 Dec 2018 16:29

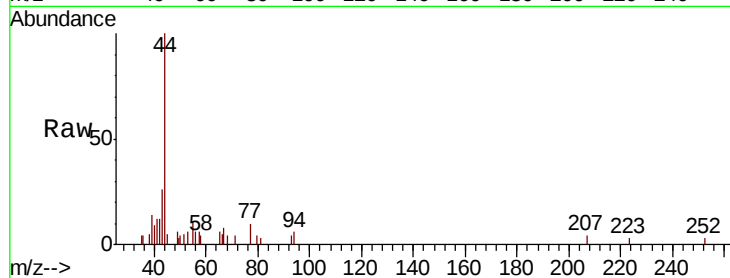
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 1363

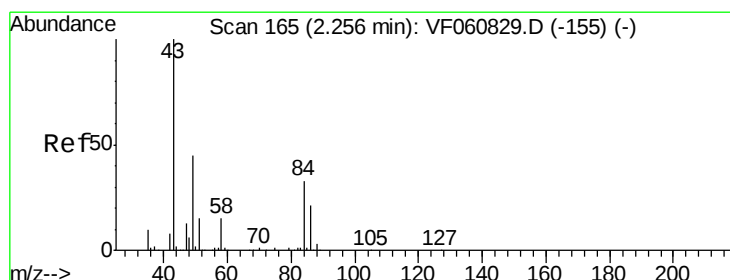
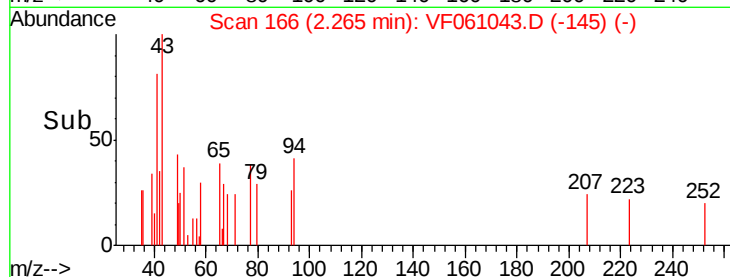
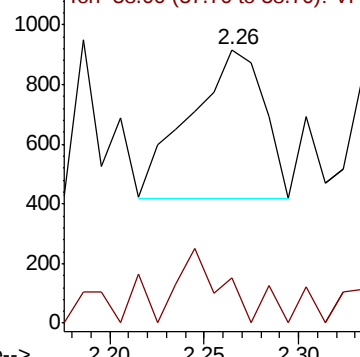
Ion Ratio Lower Upper

43 100

58 16.6 11.4 17.2



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



#20

Methylene Chloride

Concen: 1.107 ug/l

RT: 2.20 min Scan# 159

Delta R.T. -0.06 min

Lab File: VF061043.D

Acq: 17 Dec 2018 16:29

Tgt Ion: 84 Resp: 497

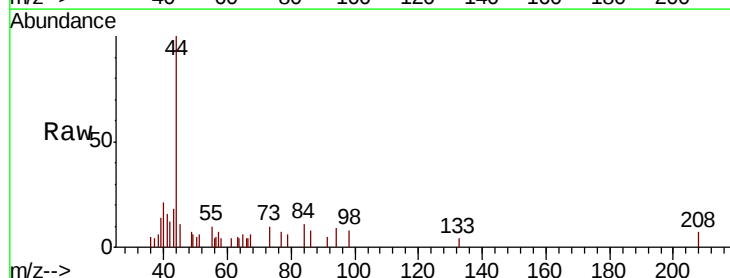
Ion Ratio Lower Upper

84 100

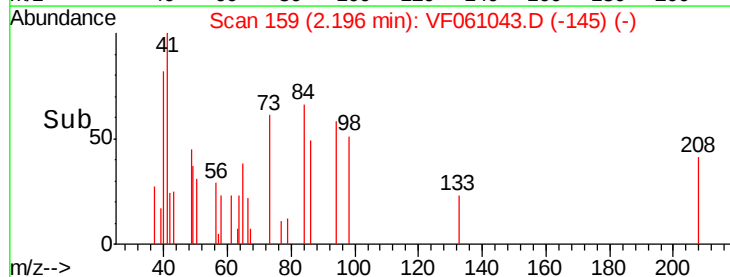
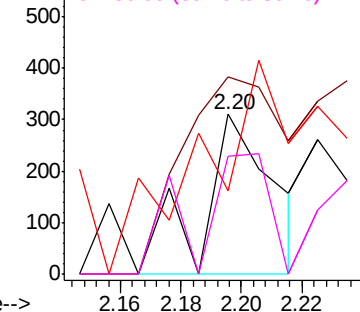
49 123.2 111.3 166.9

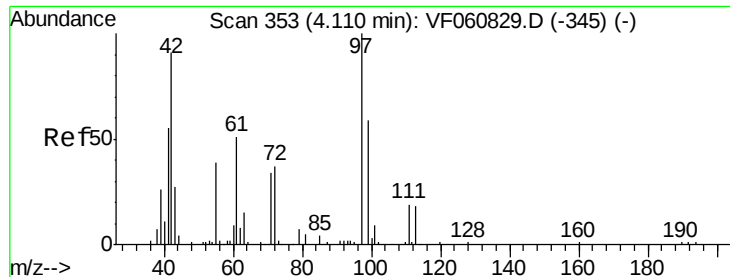
51 52.3 38.0 57.0

86 74.2 49.8 74.8



Abundance Ion 84.00 (83.70 to 84.70): VF0
Ion 49.00 (48.70 to 49.70): VF0
Ion 51.00 (50.70 to 51.70): VF0
Ion 86.00 (85.70 to 86.70): VF0

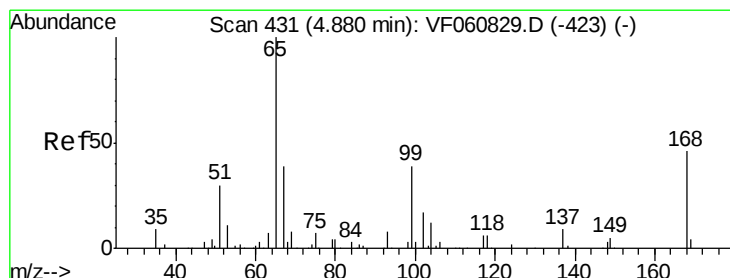
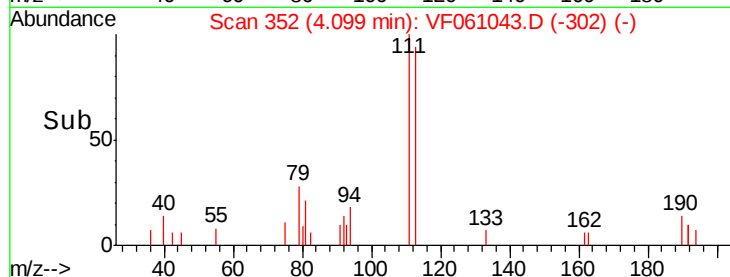
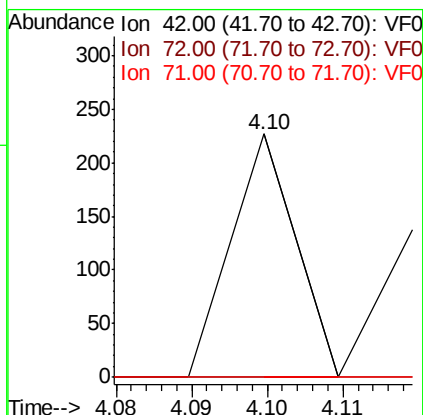
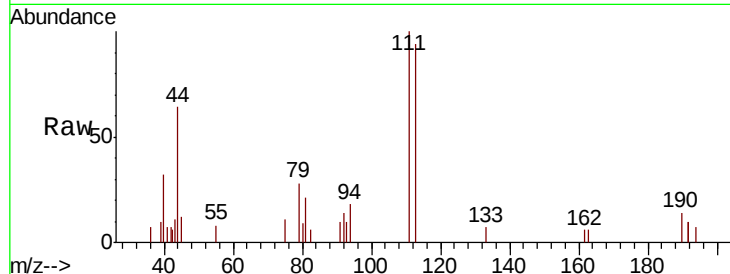




#29
Tetrahydrofuran
Concen: 1.493 ug/l
RT: 4.10 min Scan# 352
Delta R.T. -0.01 min
Lab File: VF061043.D
Acq: 17 Dec 2018 16:29

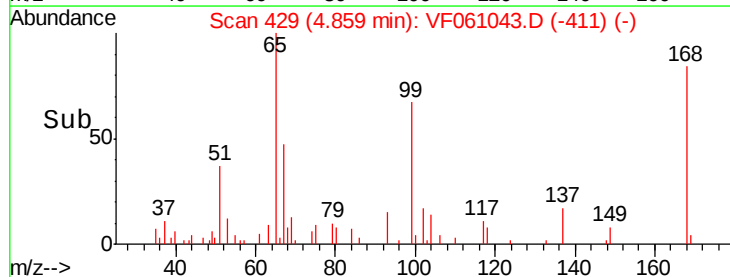
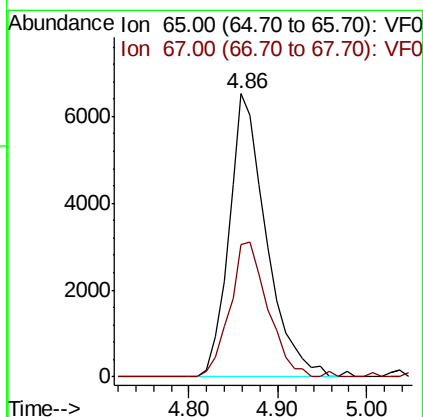
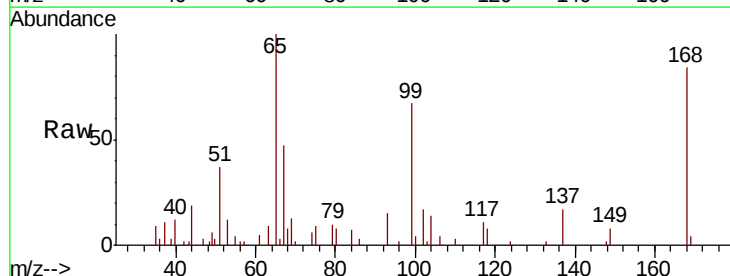
Instrument :
MSVOA_F
ClientSampleId :

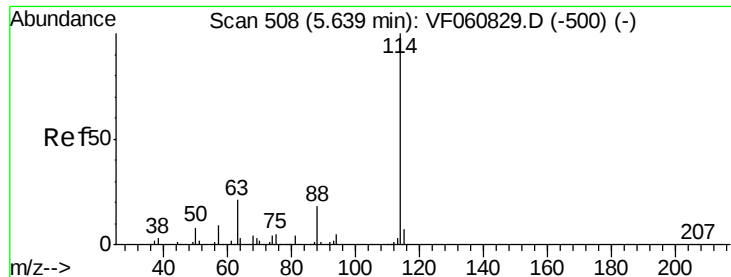
Tot Ion: 42 Resp: 134
Ion Ratio Lower Upper
42 100
72 0.0 31.9 47.9#
71 0.0 28.7 43.1#



#33
1,2-Dichloroethane-d4
Concen: 28.570 ug/l
RT: 4.86 min Scan# 429
Delta R.T. -0.02 min
Lab File: VF061043.D
Acq: 17 Dec 2018 16:29

Tgt Ion: 65 Resp: 18963
Ion Ratio Lower Upper
65 100
67 46.9 0.0 96.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.62 min Scan# 506

Delta R.T. -0.02 min

Lab File: VF061043.D

Acq: 17 Dec 2018 16:29

Instrument :

MSVOA_F

ClientSampleId :

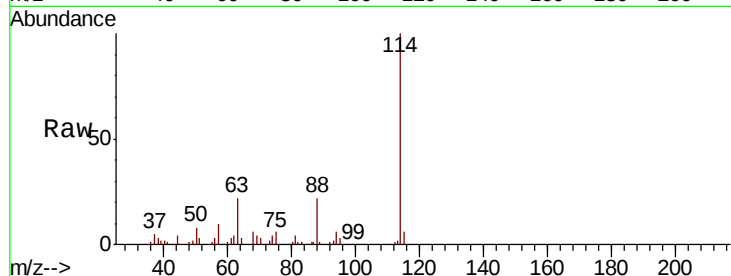
Tot Ion:114 Resp: 89184

Ion Ratio Lower Upper

114 100

63 22.1 0.0 41.6

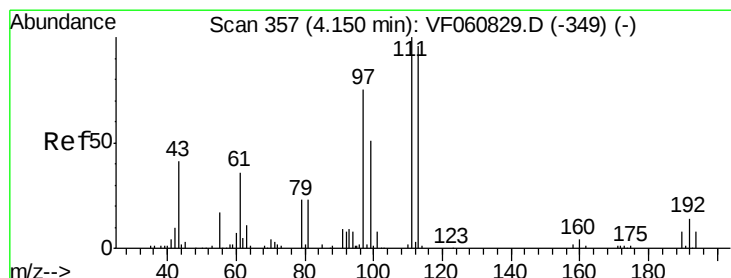
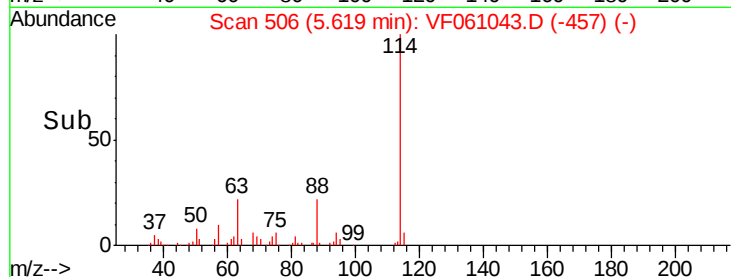
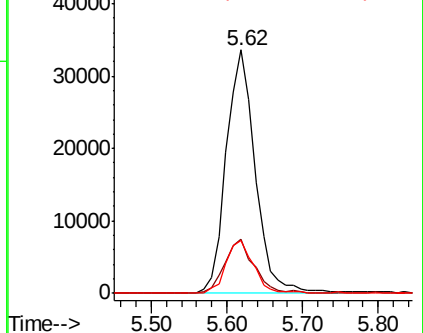
88 21.5 0.0 36.6



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: 33.486 ug/l

RT: 4.13 min Scan# 355

Delta R.T. -0.02 min

Lab File: VF061043.D

Acq: 17 Dec 2018 16:29

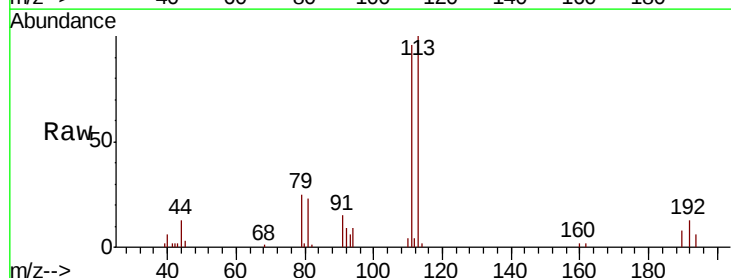
Tgt Ion:113 Resp: 23692

Ion Ratio Lower Upper

113 100

111 95.7 83.0 124.6

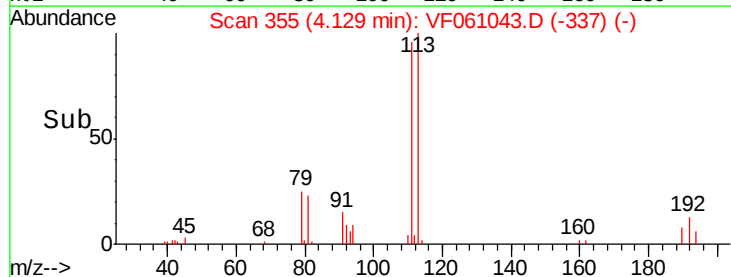
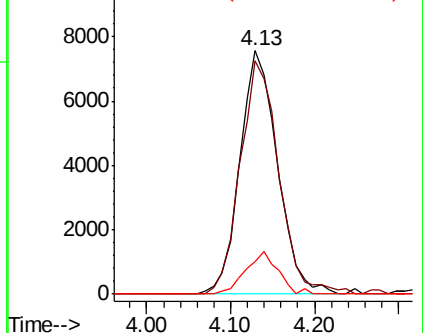
192 13.4 12.3 18.5

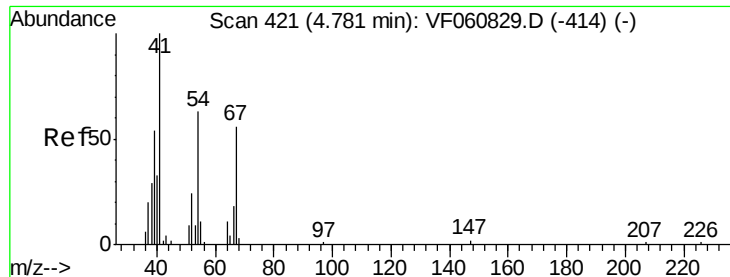


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

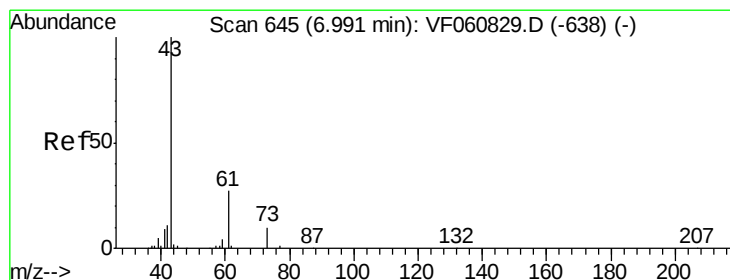
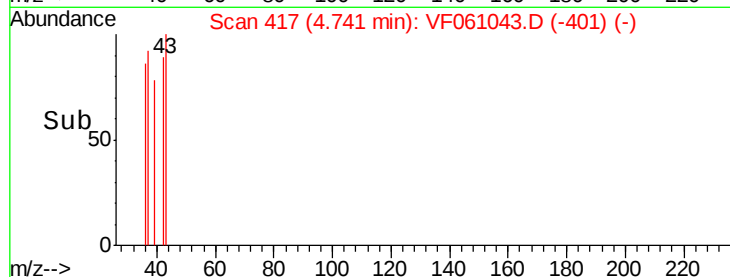
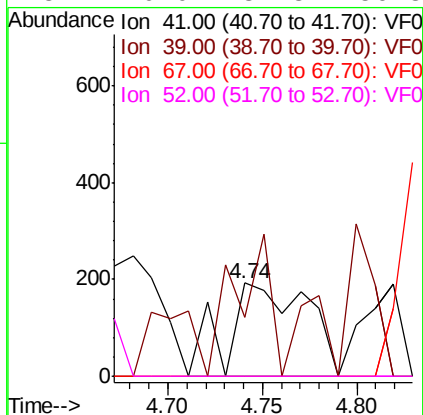
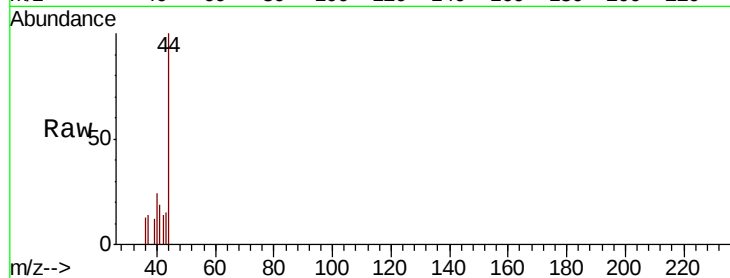




#41
Methacrylonitrile
Concen: Below Cal
RT: 4.74 min Scan# 417
Delta R.T. -0.04 min
Lab File: VF061043.D
Acq: 17 Dec 2018 16:29

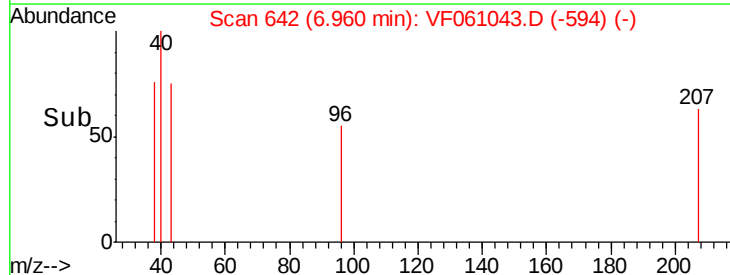
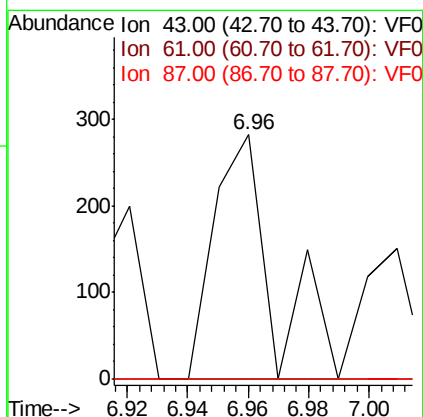
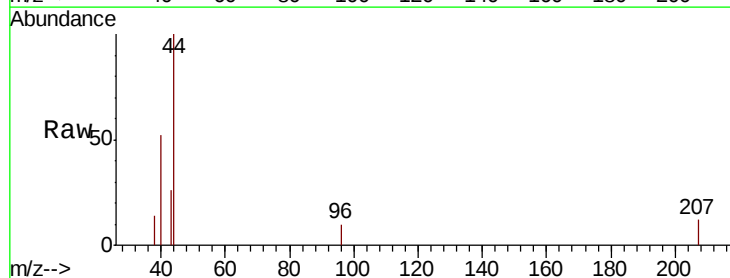
Instrument :
MSVOA_F
ClientSampleId :

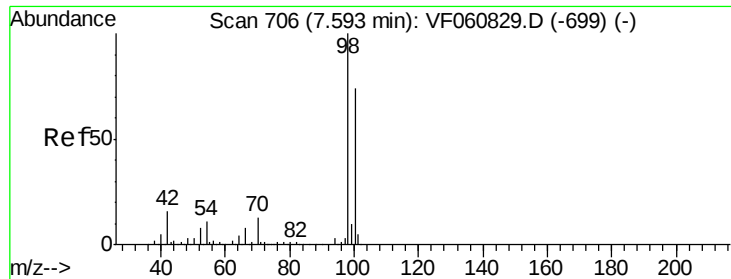
Tot Ion: 41 Resp: 572
Ion Ratio Lower Upper
41 100
39 64.1 53.0 79.6
67 0.0 43.8 65.6#
52 0.0 37.8 56.8#



#43
Isopropyl Acetate
Concen: Below Cal
RT: 6.96 min Scan# 642
Delta R.T. -0.03 min
Lab File: VF061043.D
Acq: 17 Dec 2018 16:29

Tgt Ion: 43 Resp: 386
Ion Ratio Lower Upper
43 100
61 0.0 21.4 32.0#
87 0.0 0.2 0.4#





#50

Toluene-d8

Concen: 32.654 ug/l

RT: 7.57 min Scan# 704

Delta R.T. -0.02 min

Lab File: VF061043.D

Acq: 17 Dec 2018 16:29

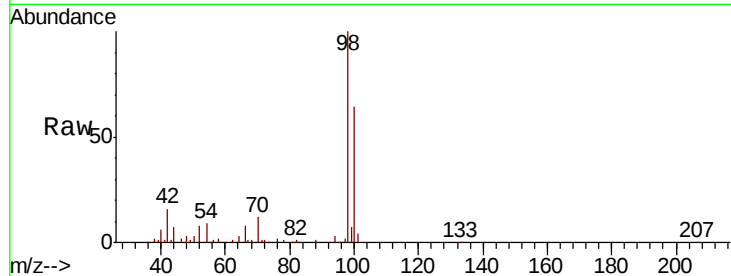
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 98 Resp: 68055

Ion Ratio Lower Upper

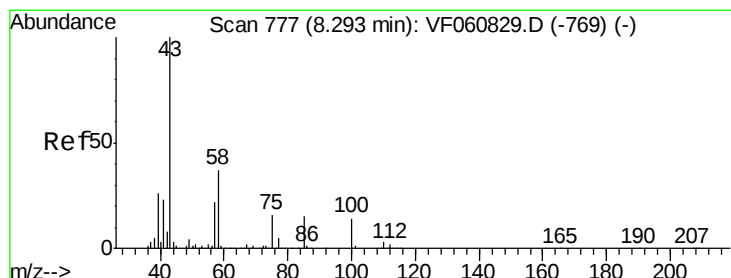
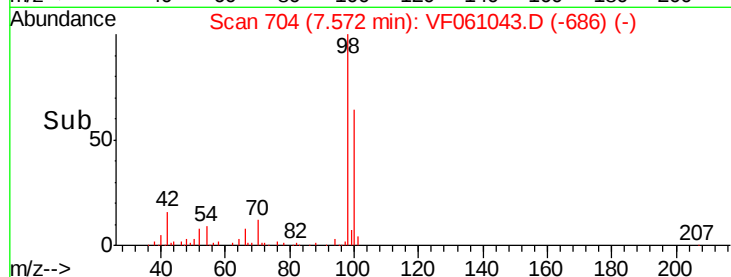
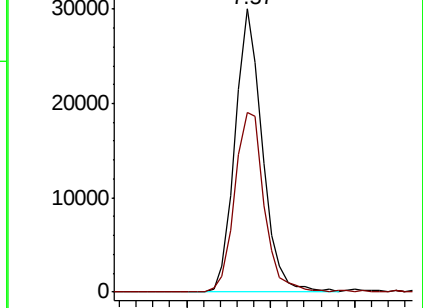
98 100

100 63.5 59.3 88.9



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: 1.559 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.03 min

Lab File: VF061043.D

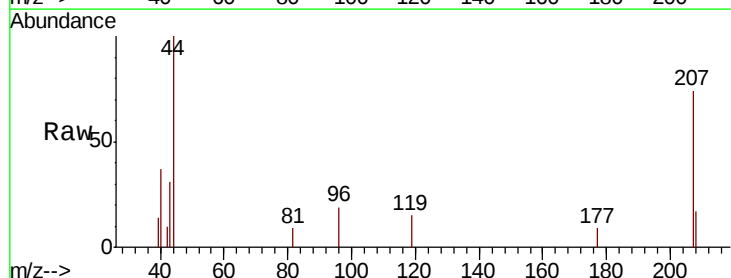
Acq: 17 Dec 2018 16:29

Tgt Ion: 43 Resp: 578

Ion Ratio Lower Upper

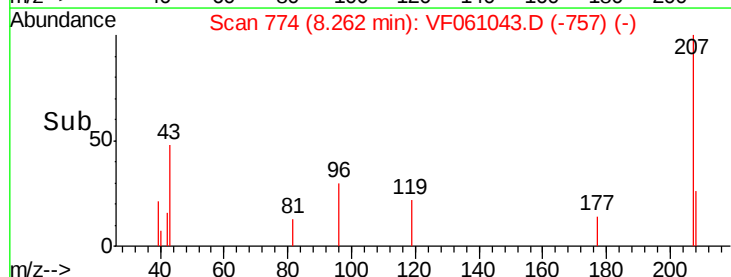
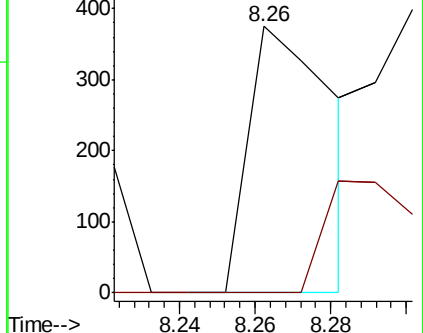
43 100

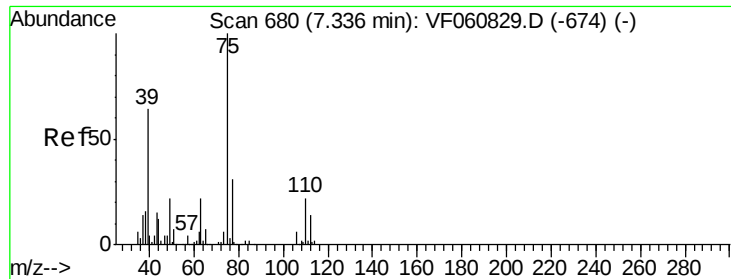
58 0.0 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#58

2-Chloroethyl Vinyl ether

Concen: 1.495 ug/l

RT: 7.26 min Scan# 672

Delta R.T. -0.08 min

Lab File: VF061043.D

Acq: 17 Dec 2018 16:29

Instrument :

MSVOA_F

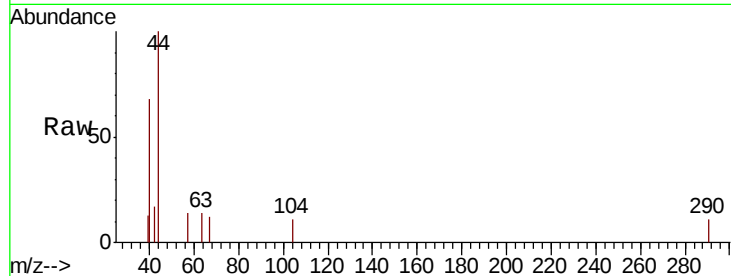
ClientSampled :

Tot Ion: 63 Resp: 76

Ion Ratio Lower Upper

63 100

106 0.0 23.0 34.6#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

7.26

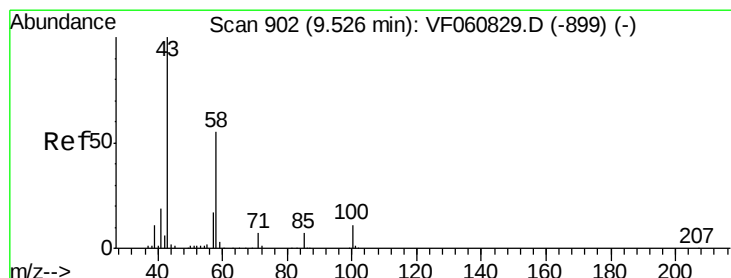
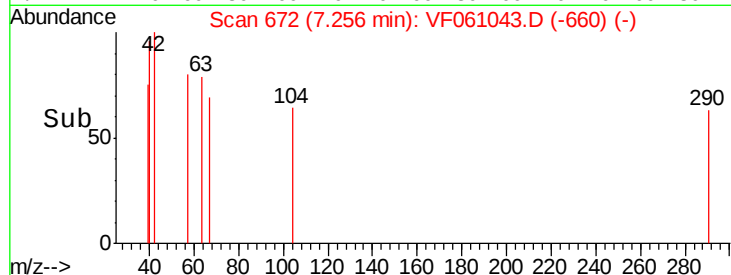
150

100

50

0

Time--> 7.22 7.24 7.26 7.28



#59

2-Hexanone

Concen: 1.965 ug/l

RT: 9.53 min Scan# 903

Delta R.T. 0.01 min

Lab File: VF061043.D

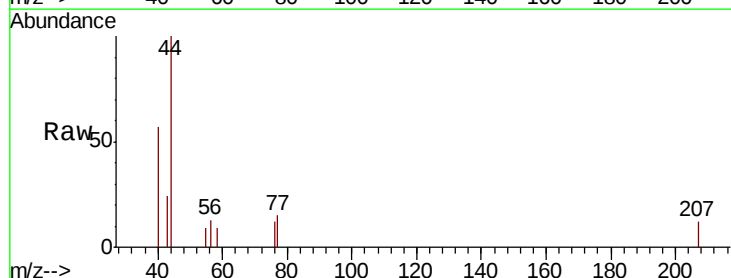
Acq: 17 Dec 2018 16:29

Tgt Ion: 43 Resp: 511

Ion Ratio Lower Upper

43 100

58 35.3 25.6 76.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

9.53

400

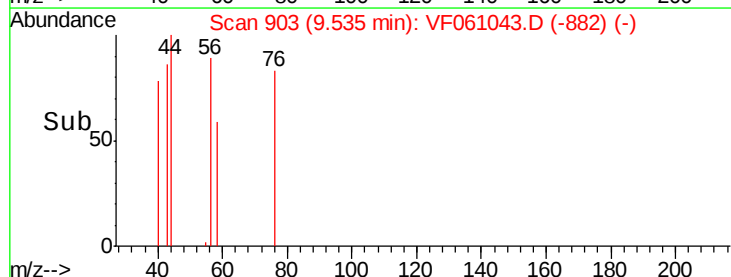
300

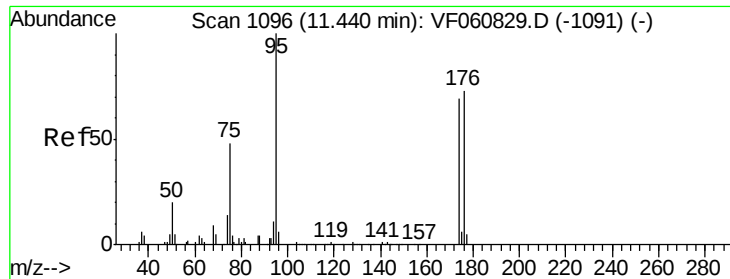
200

100

0

Time--> 9.50 9.52 9.54 9.56 9.58

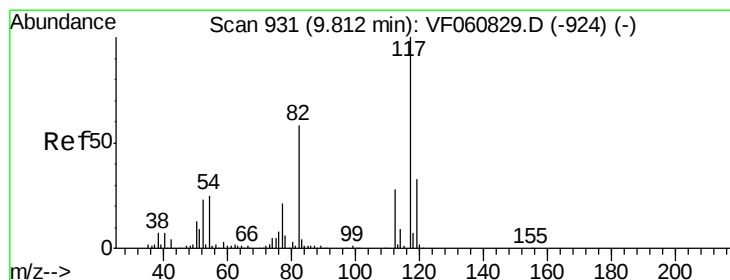
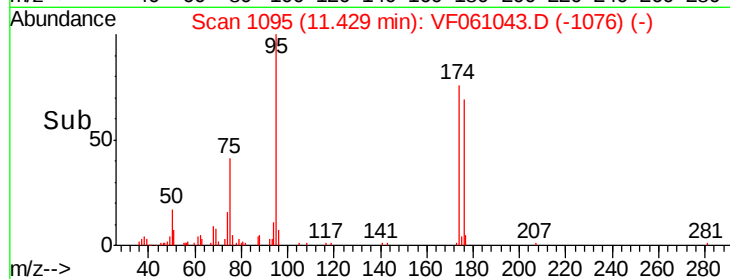
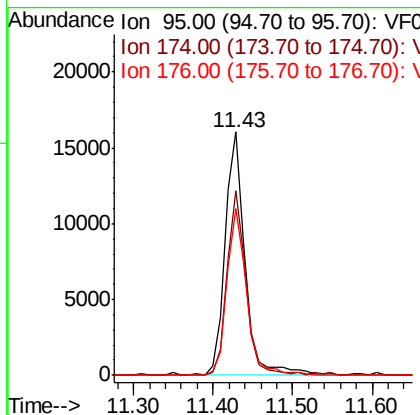
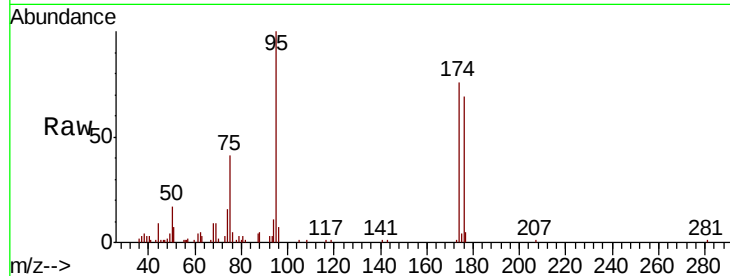




#62
4-Bromofluorobenzene
Concen: 30.041 ug/l
RT: 11.43 min Scan# 1095
Delta R.T. -0.01 min
Lab File: VF061043.D
Acq: 17 Dec 2018 16:29

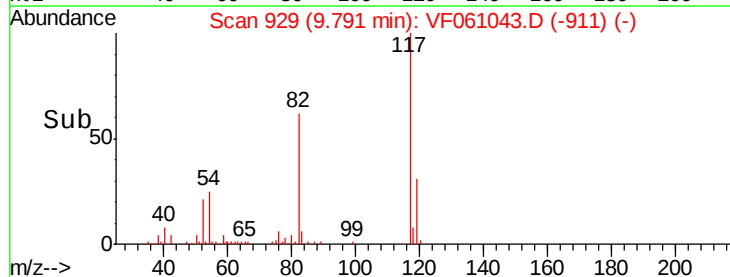
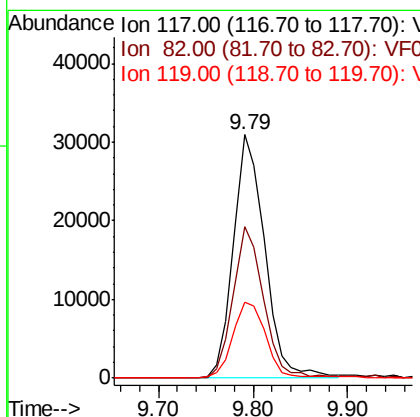
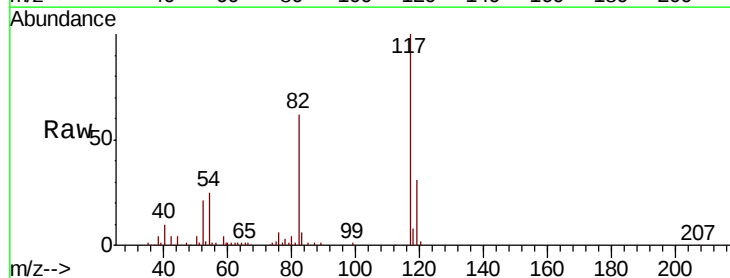
Instrument :
MSVOA_F
ClientSampleId :

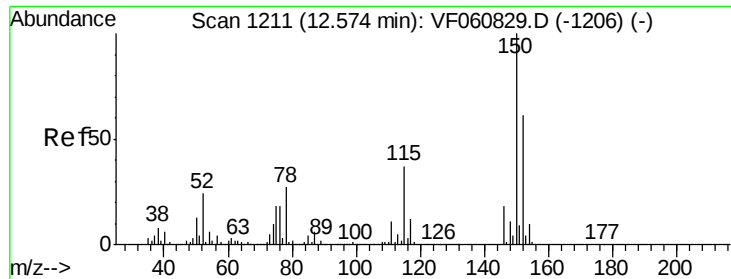
Tot Ion	95	Resp	28455
Ion Ratio	Lower	Upper	
95	100		
174	75.8	0.0	138.2
176	68.7	0.0	146.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.79 min Scan# 929
Delta R.T. -0.02 min
Lab File: VF061043.D
Acq: 17 Dec 2018 16:29

Tgt Ion	117	Resp	71395
Ion Ratio	Lower	Upper	
117	100		
82	62.3	46.6	69.8
119	31.0	26.4	39.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.56 min Scan# 1210

Delta R.T. -0.01 min

Lab File: VF061043.D

Acq: 17 Dec 2018 16:29

Instrument :

MSVOA_F

ClientSampleId :

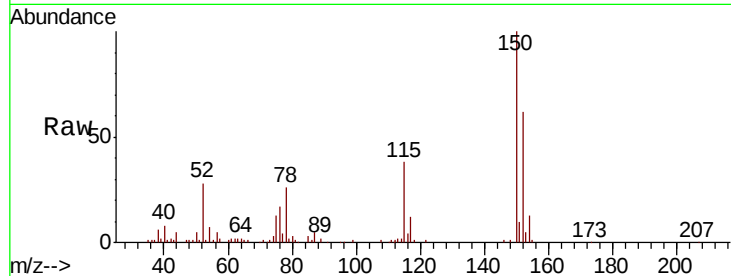
Tot Ion:152 Resp: 36241

Ion Ratio Lower Upper

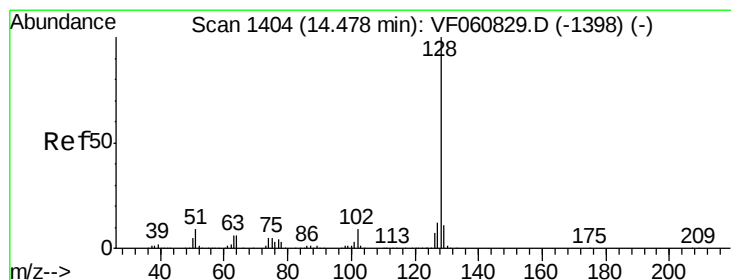
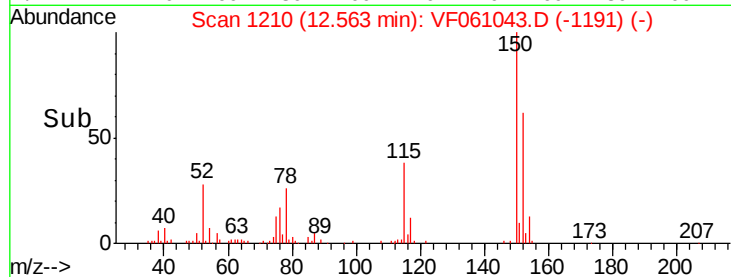
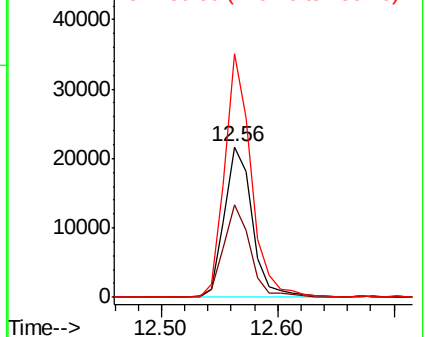
152 100

115 61.1 30.1 90.5

150 161.7 0.0 327.6



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V



#95

Naphthalene

Concen: Below Cal

RT: 14.47 min Scan# 1403

Delta R.T. -0.01 min

Lab File: VF061043.D

Acq: 17 Dec 2018 16:29

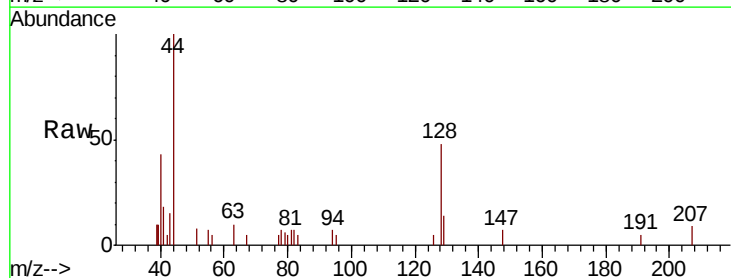
Tgt Ion:128 Resp: 1754

Ion Ratio Lower Upper

128 100

127 0.0 9.9 14.9#

129 29.3 9.1 13.7#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

