

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF112818\
 Data File : VF060859.D
 Acq On : 28 Nov 2018 16:38
 Operator : VA/AP
 Sample : J5767-17RE
 Misc : 7.24g/5mL/MSVOA-F/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 CL-02-112818-ARE

Quant Time: Nov 29 03:29:37 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	4.90	168	197319	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.63	114	349356	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.80	117	302462	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.56	152	156550	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.87	65	132209	56.88	ug/l	-0.01
Spiked Amount			Recovery	=	113.76%	
35) Dibromofluoromethane	4.14	113	146170	52.74	ug/l	-0.01
Spiked Amount			Recovery	=	105.48%	
50) Toluene-d8	7.58	98	356741	43.70	ug/l	-0.01
Spiked Amount			Recovery	=	87.40%	
62) 4-Bromofluorobenzene	11.43	95	170292	45.90	ug/l	-0.01
Spiked Amount			Recovery	=	91.80%	

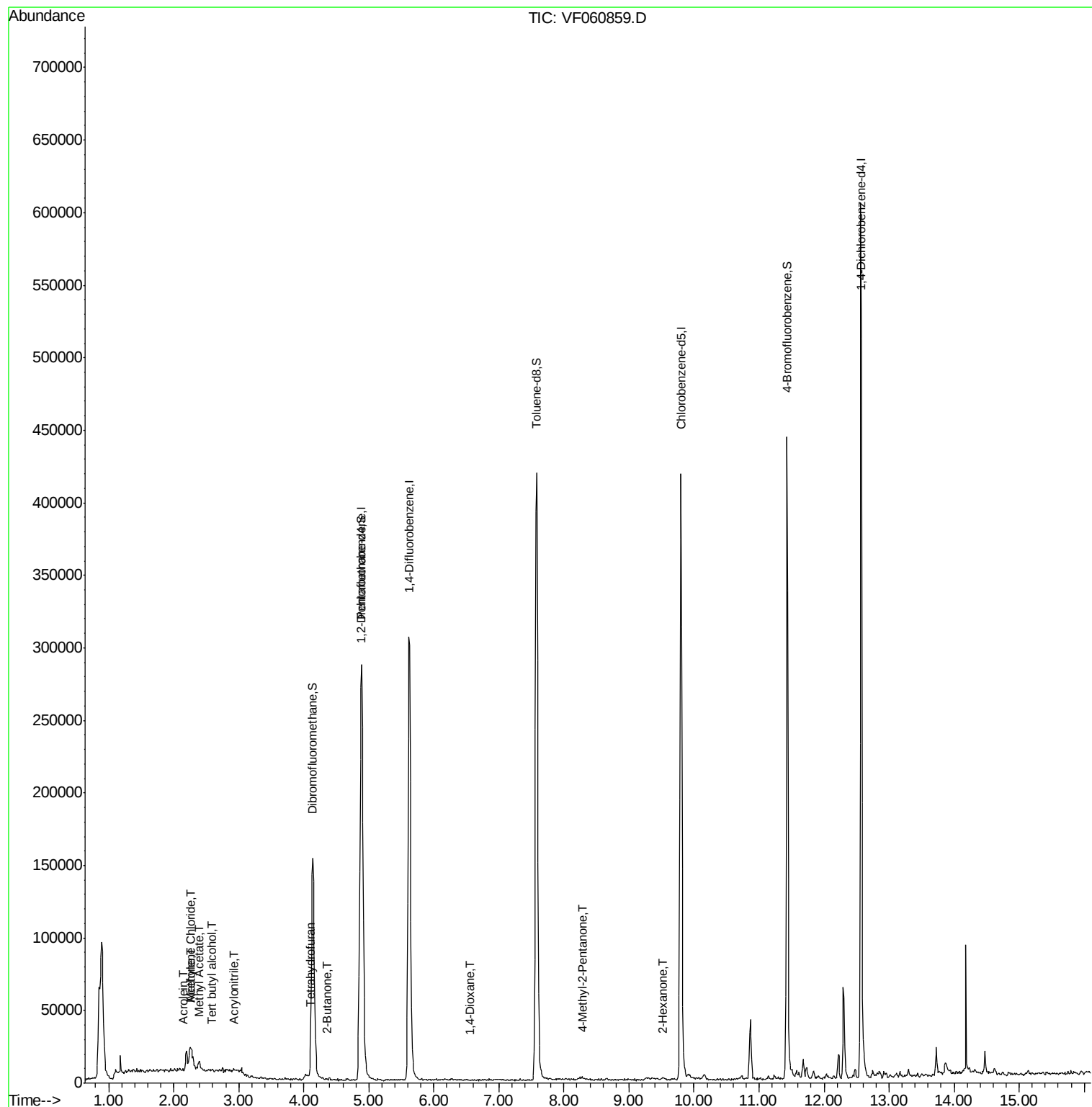
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.58	59	158	1.658	ug/l #	1
13) Acrolein	2.16	56	359	3.976	ug/l	92
15) Acrylonitrile	2.93	53	880	4.119	ug/l #	33
16) Acetone	2.25	43	9640	22.489	ug/l	96
18) Methyl Acetate	2.39	43	3690	3.599	ug/l #	61
20) Methylene Chloride	2.26	84	10105	6.426	ug/l	96
25) 2-Butanone	4.36	43	965	1.302	ug/l #	57
29) Tetrahydrofuran	4.09	42	562	1.788	ug/l #	57
41) Methacrylonitrile	4.78	41	597	Below Cal	#	44
43) Isopropyl Acetate	6.98	43	1189	Below Cal	#	49
49) 1,4-Dioxane	6.57	88	61	5.848	ug/l #	3
51) 4-Methyl-2-Pentanone	8.27	43	1710	1.178	ug/l #	86
59) 2-Hexanone	9.53	43	1764	1.732	ug/l	70
95) Naphthalene	14.48	128	6853	Below Cal		98

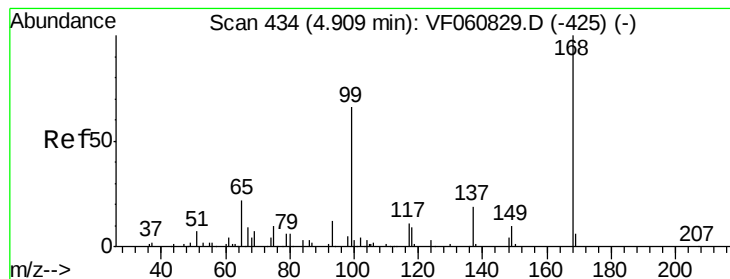
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 4.90 min Scan# 433

Delta R.T. -0.01 min

Lab File: VF060859.D

Acq: 28 Nov 2018 16:38

Instrument :

MSVOA_F

ClientSampleId :

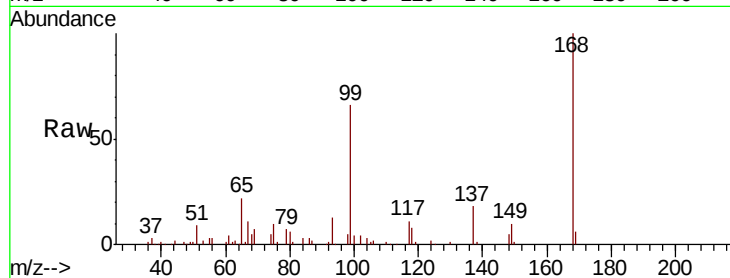
CL-02-112818-ARE

Tot Ion:168 Resp: 197319

Ion Ratio Lower Upper

168 100

99 66.3 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.90

60000

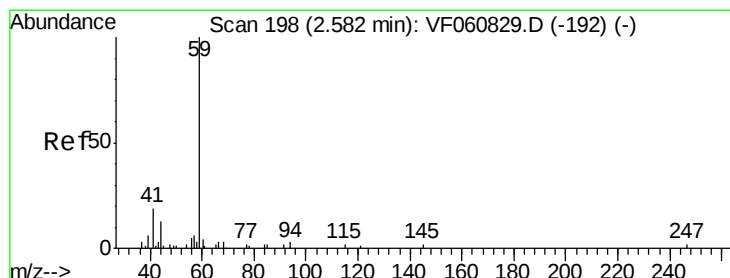
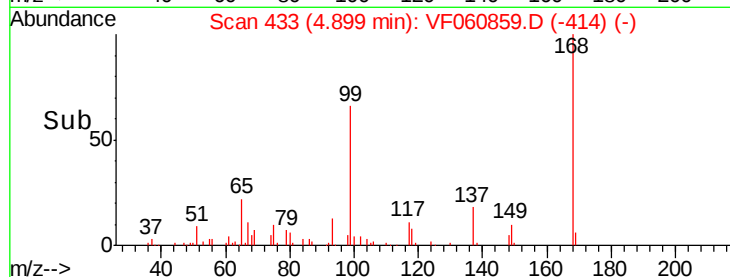
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#11

Tert butyl alcohol

Concen: 1.658 ug/l

RT: 2.58 min Scan# 198

Delta R.T. -0.00 min

Lab File: VF060859.D

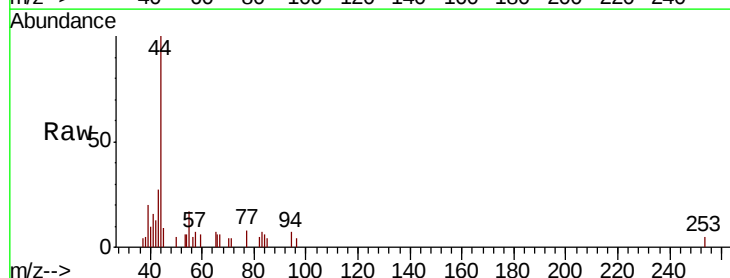
Acq: 28 Nov 2018 16:38

Tgt Ion: 59 Resp: 158

Ion Ratio Lower Upper

59 100

57 122.5 12.7 19.1#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

300

250

200

150

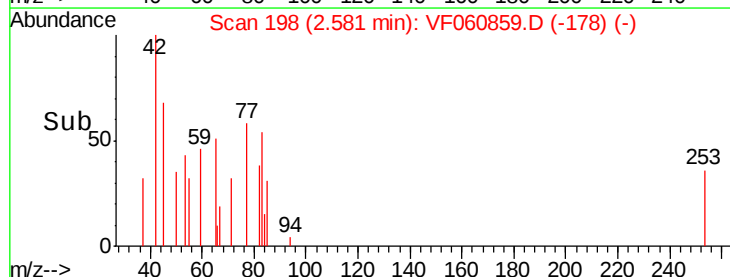
100

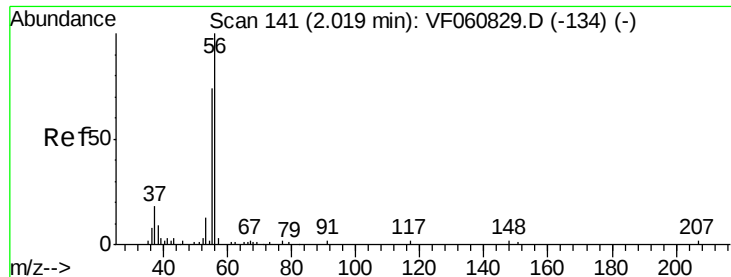
50

0

Time-->

2.56 2.58 2.60 2.62





#13

Acrolein

Concen: 3.976 ug/l

RT: 2.16 min Scan# 155

Delta R.T. 0.14 min

Lab File: VF060859.D

Acq: 28 Nov 2018 16:38

Instrument :

MSVOA_F

ClientSampleId :

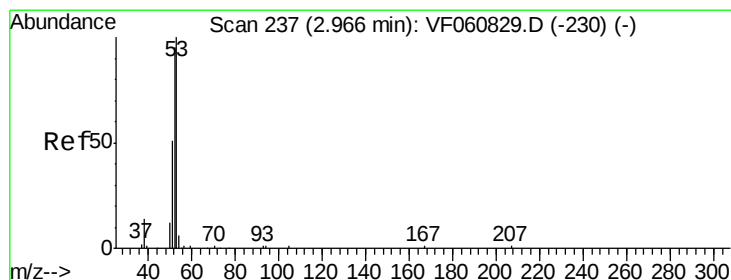
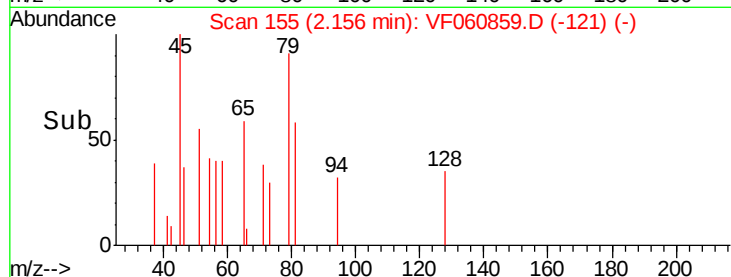
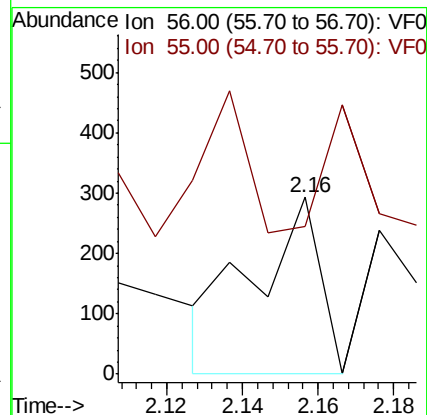
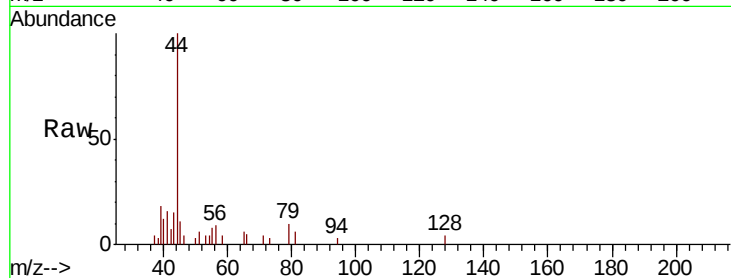
CL-02-112818-ARE

Tot Ion: 56 Resp: 359

Ion Ratio Lower Upper

56 100

55 83.3 61.2 91.8



#15

Acrylonitrile

Concen: 4.119 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.04 min

Lab File: VF060859.D

Acq: 28 Nov 2018 16:38

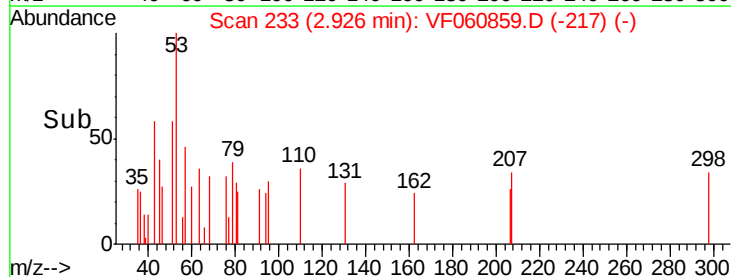
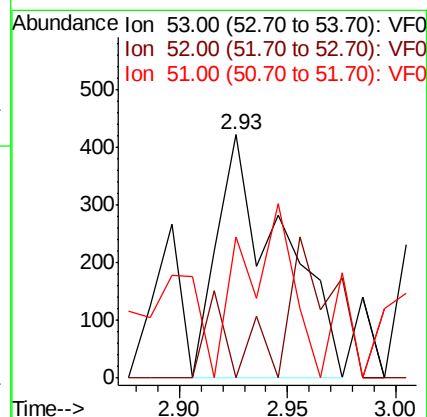
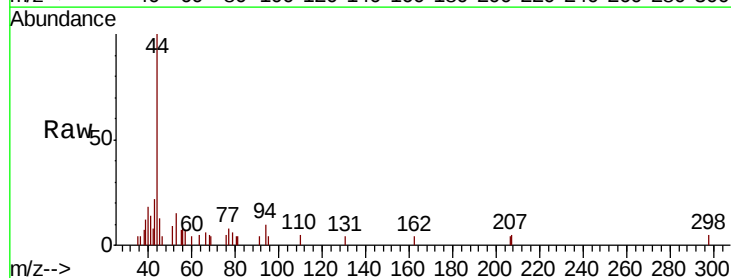
Tgt Ion: 53 Resp: 880

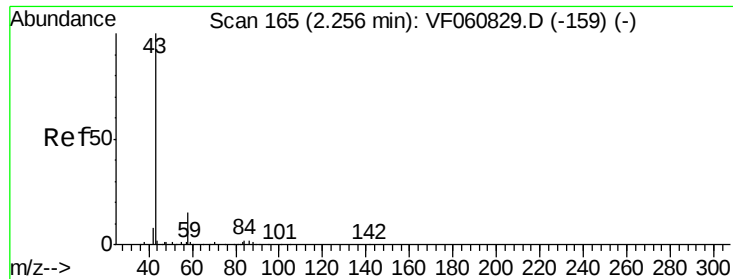
Ion Ratio Lower Upper

53 100

52 0.0 76.5 114.7#

51 57.8 40.7 61.1





#16

Acetone

Concen: 22.489 ug/l

RT: 2.25 min Scan# 164

Delta R.T. -0.01 min

Lab File: VF060859.D

Acq: 28 Nov 2018 16:38

Instrument :

MSVOA_F

ClientSampleId :

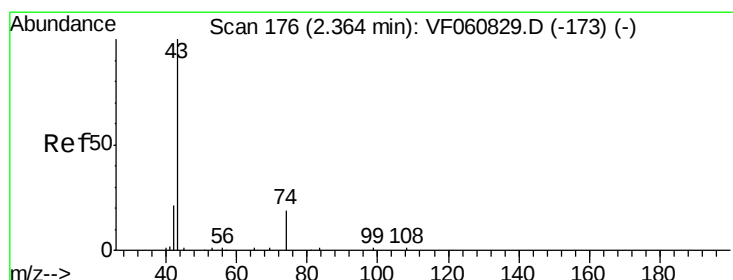
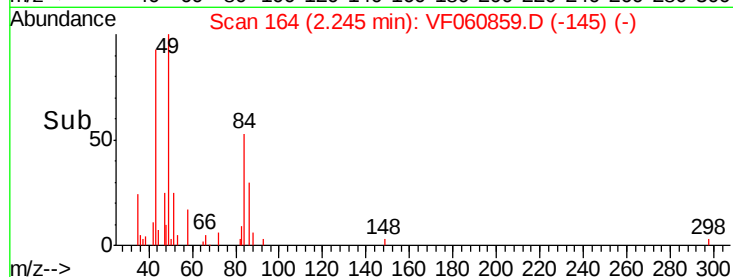
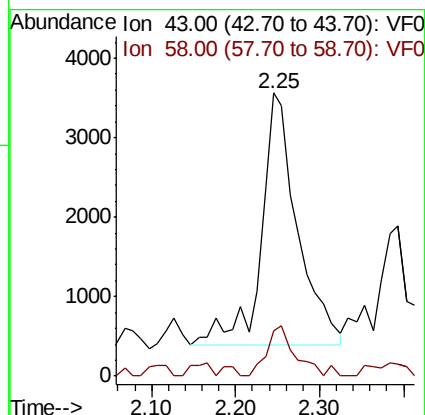
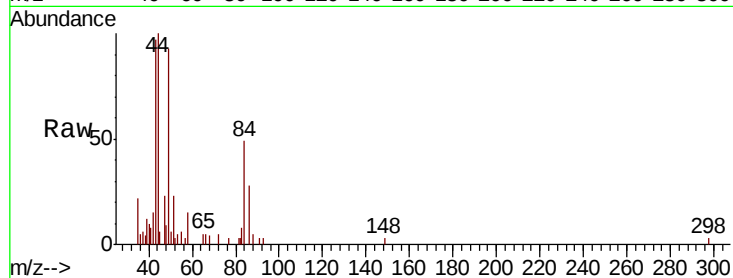
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Tot Ion: 43 Resp: 9640

Ion Ratio Lower Upper

43 100

58 16.0 11.4 17.2



#18

Methyl Acetate

Concen: 3.599 ug/l

RT: 2.39 min Scan# 179

Delta R.T. 0.03 min

Lab File: VF060859.D

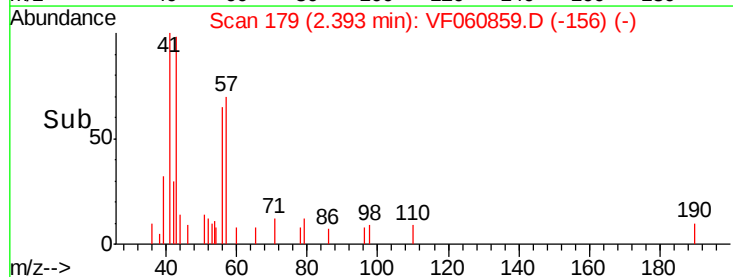
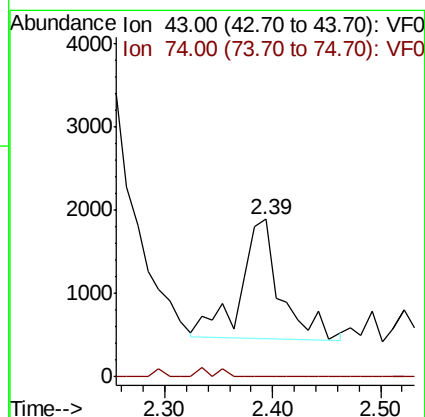
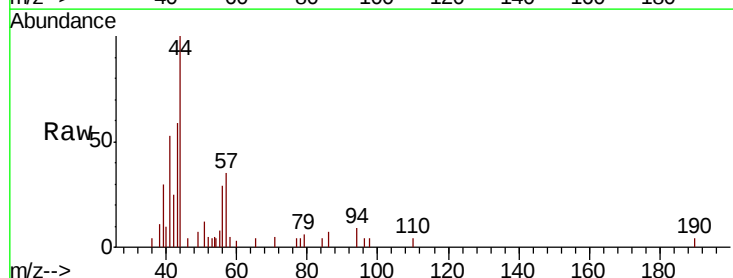
Acq: 28 Nov 2018 16:38

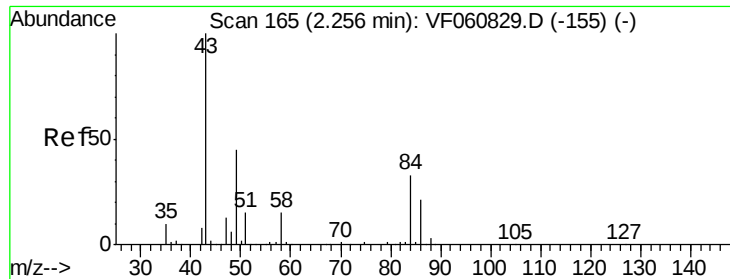
Tgt Ion: 43 Resp: 3690

Ion Ratio Lower Upper

43 100

74 0.0 13.3 19.9#





#20

Methylene Chloride

Concen: 6.426 ug/l

RT: 2.26 min Scan# 166

Delta R.T. 0.01 min

Lab File: VF060859.D

Acq: 28 Nov 2018 16:38

Instrument :
MSVOA_F
ClientSampleId :
CL-02-112818-ARE

Tot Ion: 84 Resp: 10105

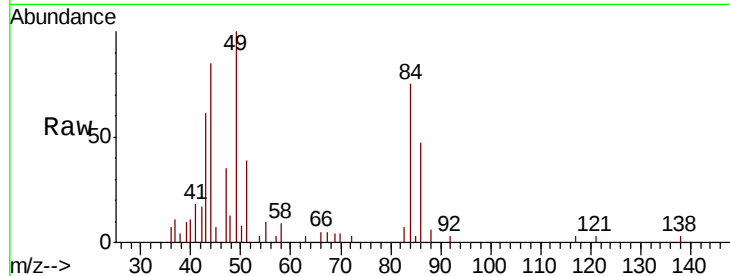
Ion Ratio Lower Upper

84 100

49 132.5 111.3 166.9

51 51.9 38.0 57.0

86 62.3 49.8 74.8

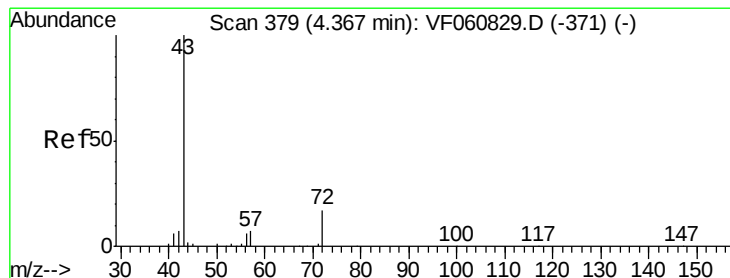
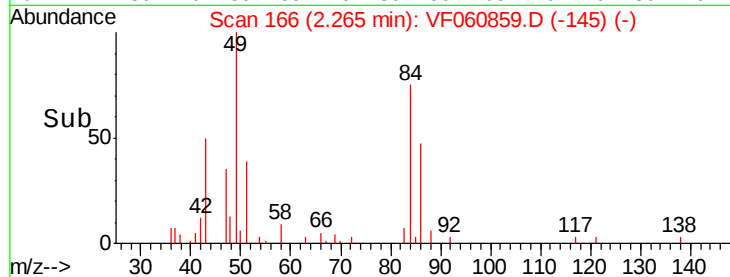
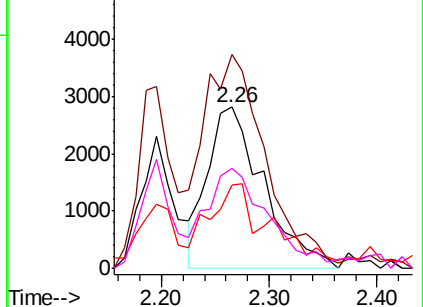


Abundance Ion 84.00 (83.70 to 84.70): VF0

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



#25

2-Butanone

Concen: 1.302 ug/l

RT: 4.36 min Scan# 378

Delta R.T. -0.01 min

Lab File: VF060859.D

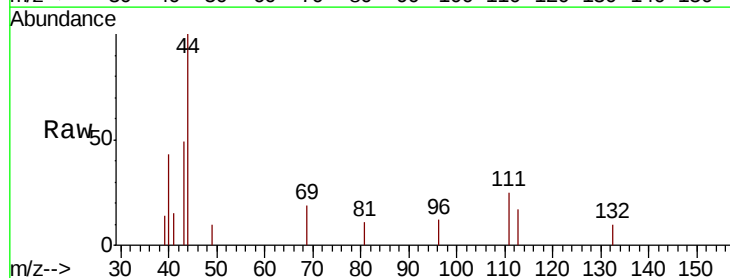
Acq: 28 Nov 2018 16:38

Tgt Ion: 43 Resp: 965

Ion Ratio Lower Upper

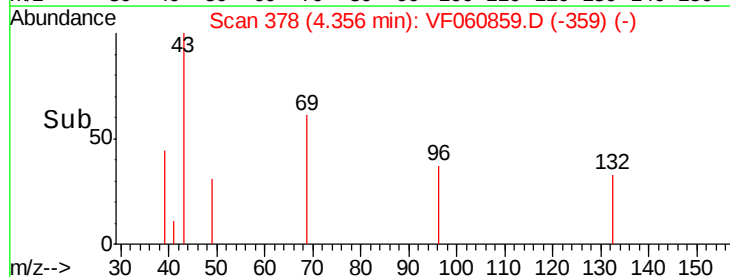
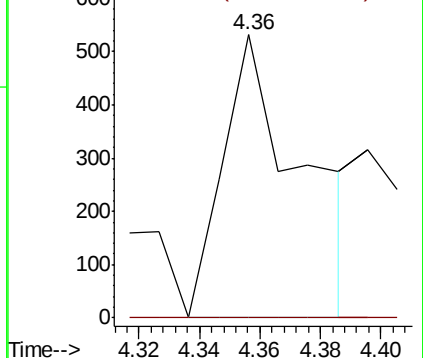
43 100

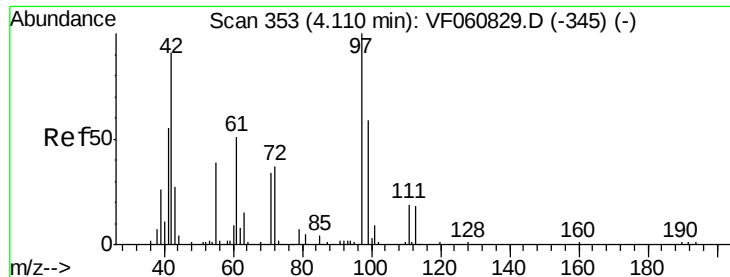
72 0.0 15.4 23.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

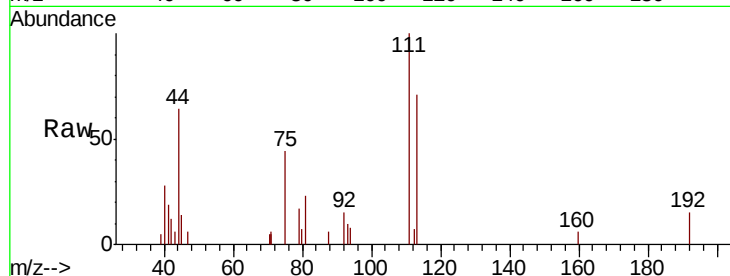




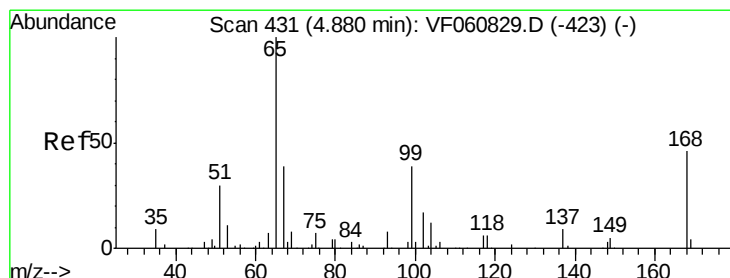
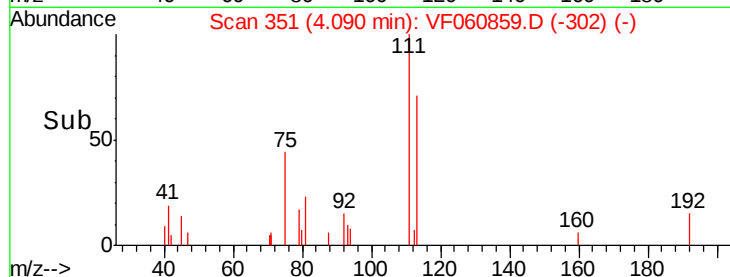
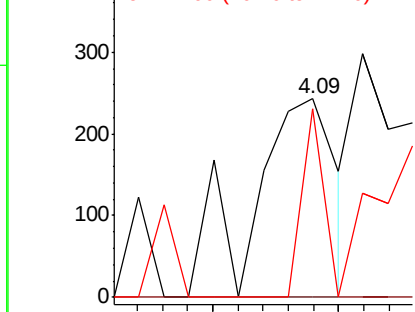
#29
Tetrahydrofuran
Concen: 1.788 ug/l
RT: 4.09 min Scan# 351
Delta R.T. -0.02 min
Lab File: VF060859.D
Acq: 28 Nov 2018 16:38

Instrument :
MSVOA_F
ClientSampleId :
CL-02-112818-ARE

Tot Ion: 42 Resp: 562
Ion Ratio Lower Upper
42 100
72 0.0 31.9 47.9#
71 24.2 28.7 43.1#

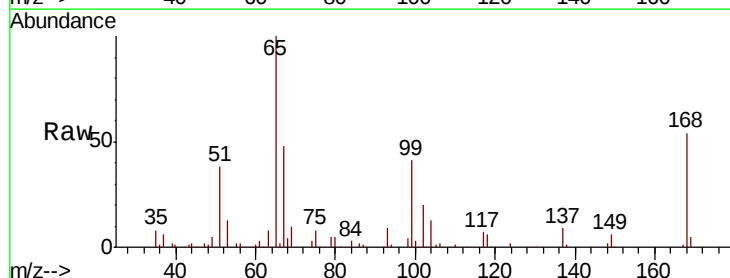


Abundance Ion 42.00 (41.70 to 42.70): VF0
Ion 72.00 (71.70 to 72.70): VF0
Ion 71.00 (70.70 to 71.70): VF0

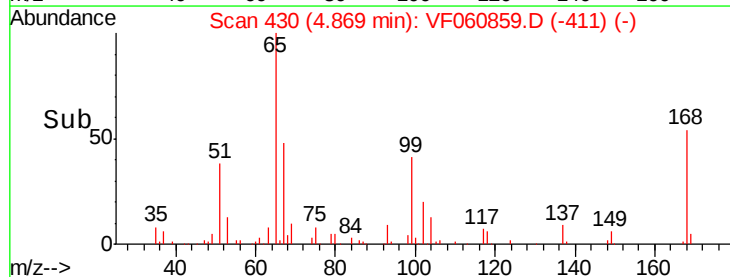
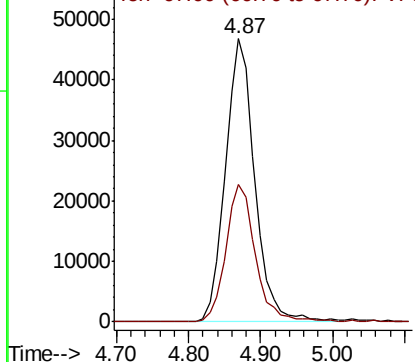


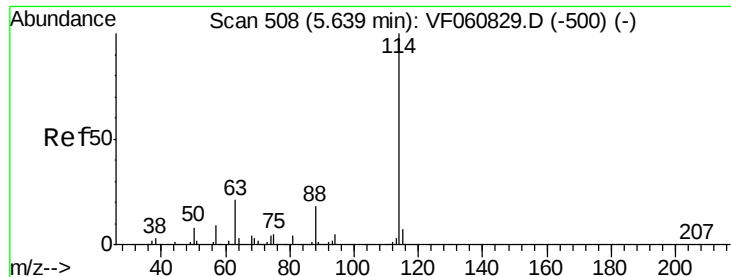
#33
1,2-Dichloroethane-d4
Concen: 56.877 ug/l
RT: 4.87 min Scan# 430
Delta R.T. -0.01 min
Lab File: VF060859.D
Acq: 28 Nov 2018 16:38

Tgt Ion: 65 Resp: 132209
Ion Ratio Lower Upper
65 100
67 48.4 0.0 96.4



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: 5.63 min Scan# 507

Delta R.T. -0.01 min

Lab File: VF060859.D

Acq: 28 Nov 2018 16:38

Instrument :

MSVOA_F

ClientSampleId :

CL-02-112818-ARE

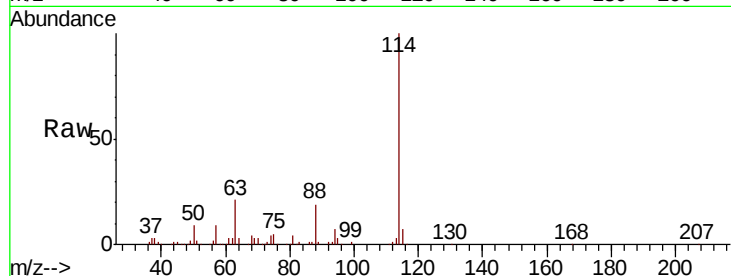
Tot Ion:114 Resp: 349356

Ion Ratio Lower Upper

114 100

63 21.2 0.0 41.6

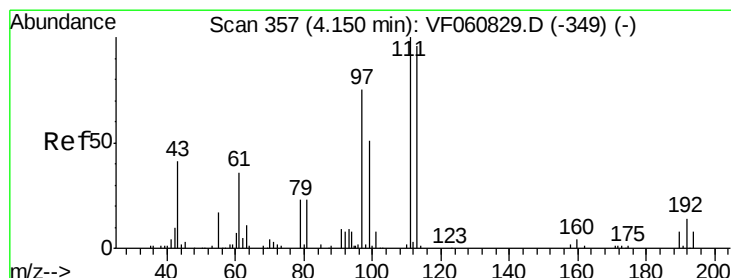
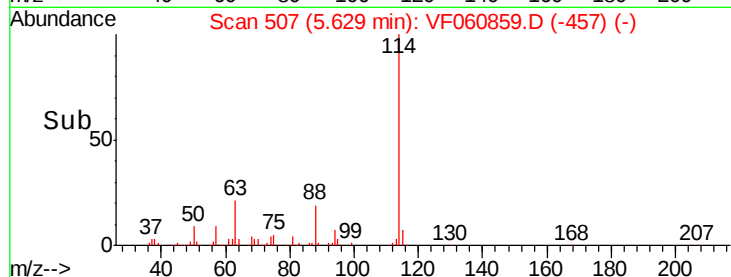
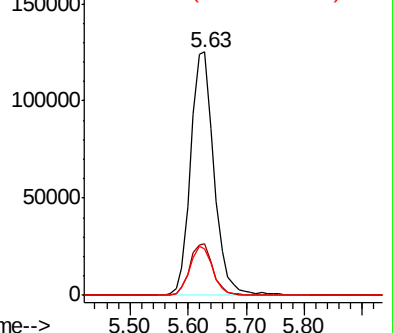
88 19.1 0.0 36.6



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: 52.740 ug/l

RT: 4.14 min Scan# 356

Delta R.T. -0.01 min

Lab File: VF060859.D

Acq: 28 Nov 2018 16:38

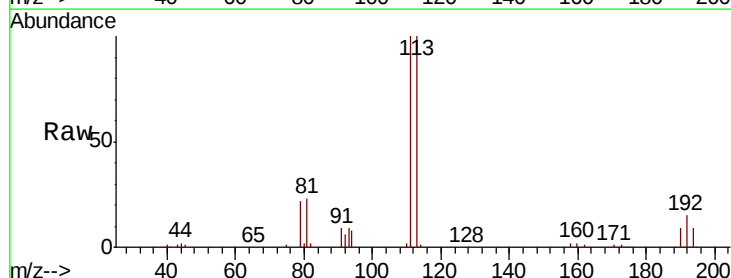
Tgt Ion:113 Resp: 146170

Ion Ratio Lower Upper

113 100

111 99.8 83.0 124.6

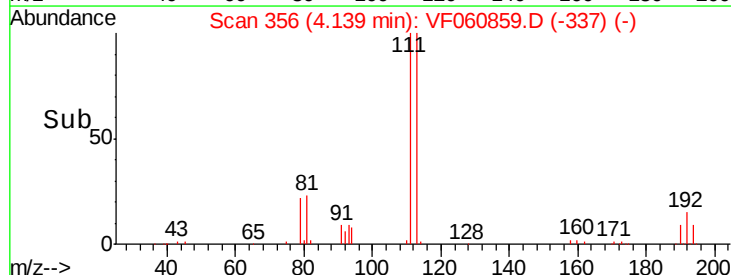
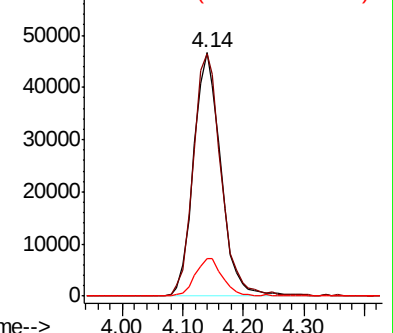
192 15.9 12.3 18.5

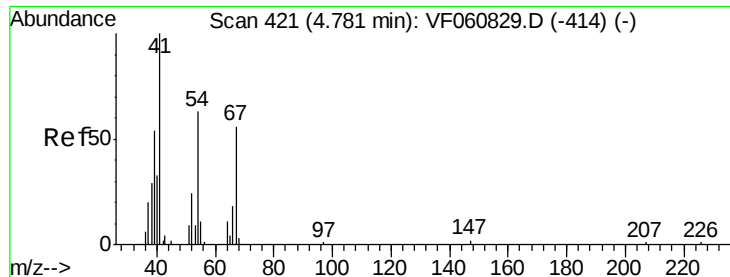


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

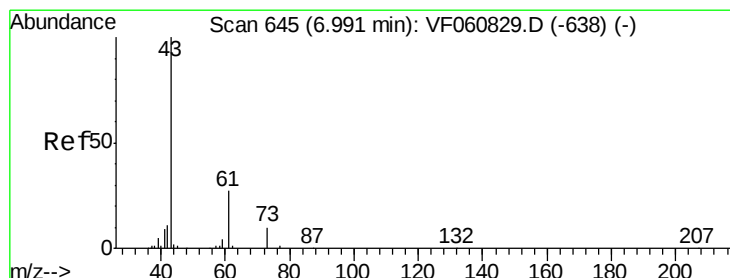
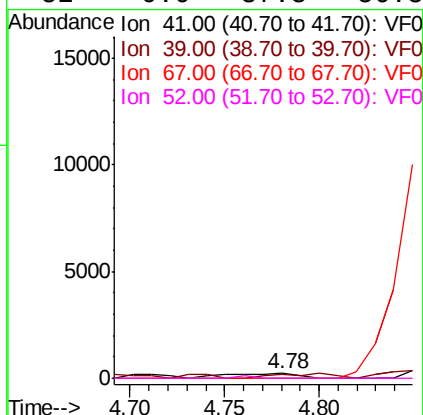
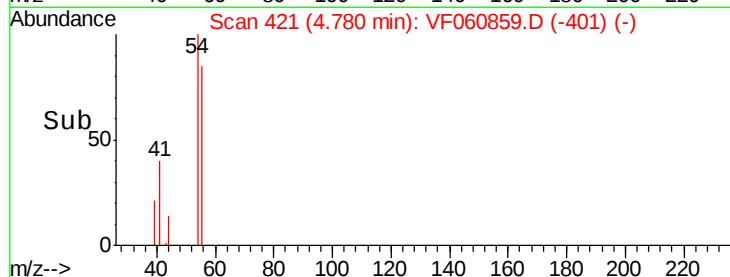
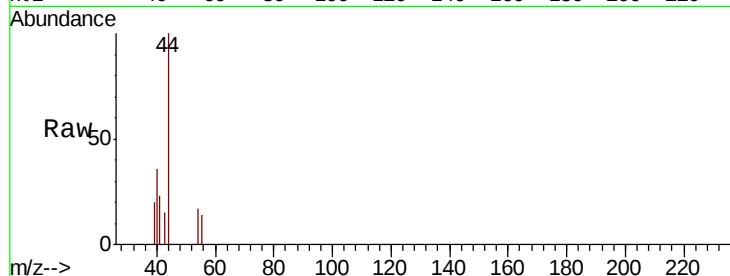




#41
Methacrylonitrile
Concen: Below Cal
RT: 4.78 min Scan# 421
Delta R.T. -0.00 min
Lab File: VF060859.D
Acq: 28 Nov 2018 16:38

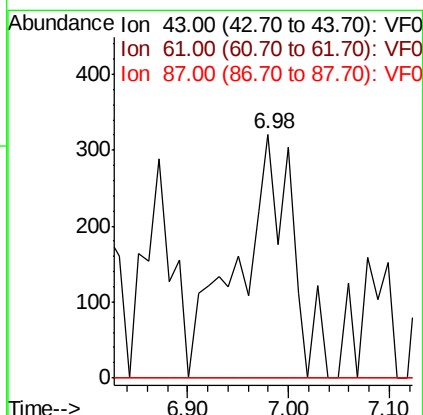
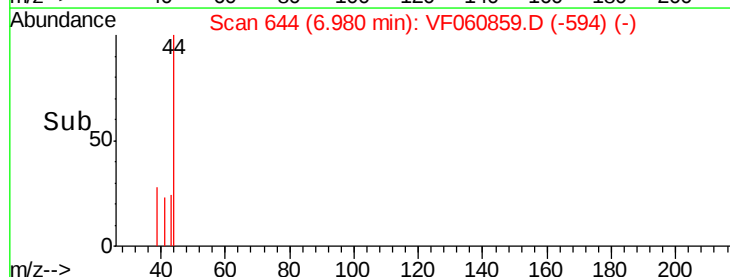
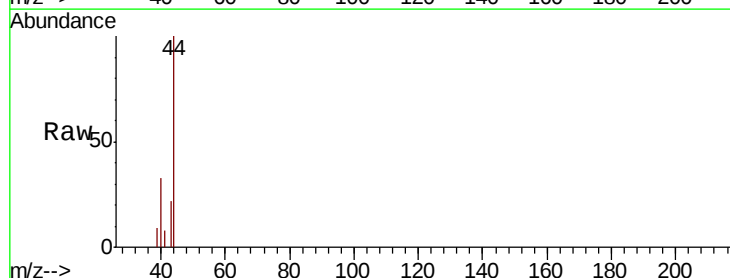
Instrument :
MSVOA_F
ClientSampleId :
CL-02-112818-ARE

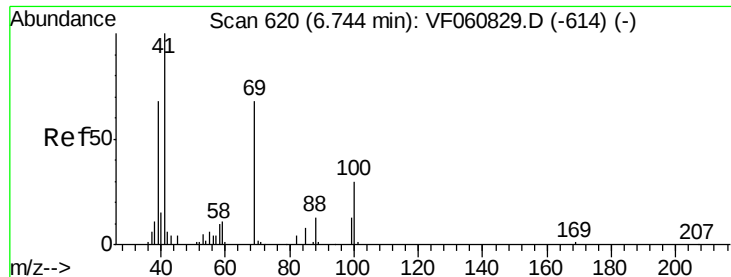
Tot Ion: 41 Resp: 597
Ion Ratio Lower Upper
41 100
39 88.8 53.0 79.6#
67 0.0 43.8 65.6#
52 0.0 37.8 56.8#



#43
Isopropyl Acetate
Concen: Below Cal
RT: 6.98 min Scan# 644
Delta R.T. -0.01 min
Lab File: VF060859.D
Acq: 28 Nov 2018 16:38

Tgt Ion: 43 Resp: 1189
Ion Ratio Lower Upper
43 100
61 0.0 21.4 32.0#
87 0.0 0.2 0.4#





#49

1,4-Dioxane

Concen: 5.848 ug/l

RT: 6.57 min Scan# 602

Delta R.T. -0.18 min

Lab File: VF060859.D

Acq: 28 Nov 2018 16:38

Instrument :

MSVOA_F

ClientSampleId :

CL-02-112818-ARE

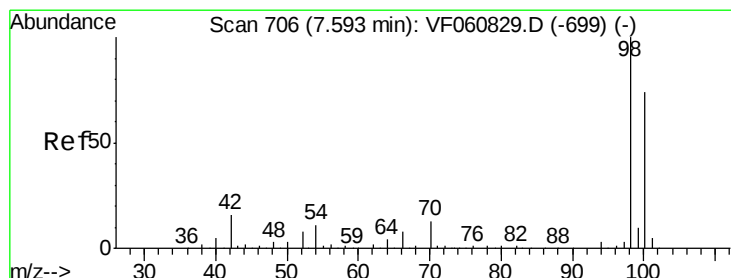
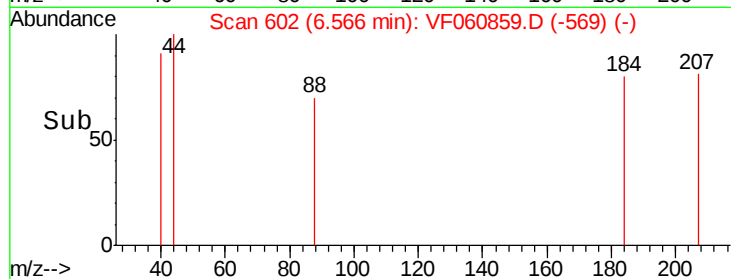
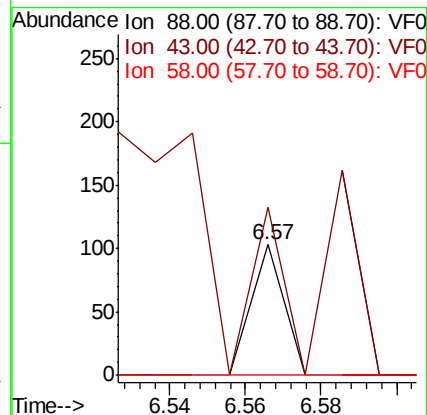
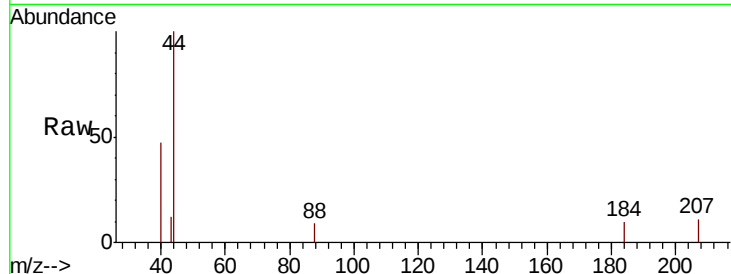
Tot Ion: 88 Resp: 61

Ion Ratio Lower Upper

88 100

43 129.1 42.0 63.0#

58 0.0 61.8 92.8#



#50

Toluene-d8

Concen: 43.696 ug/l

RT: 7.58 min Scan# 705

Delta R.T. -0.01 min

Lab File: VF060859.D

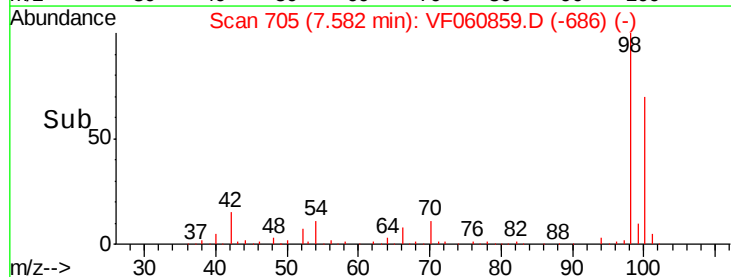
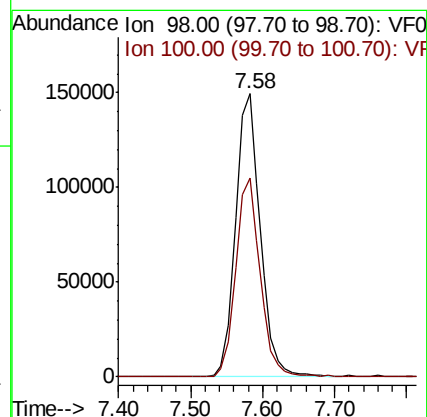
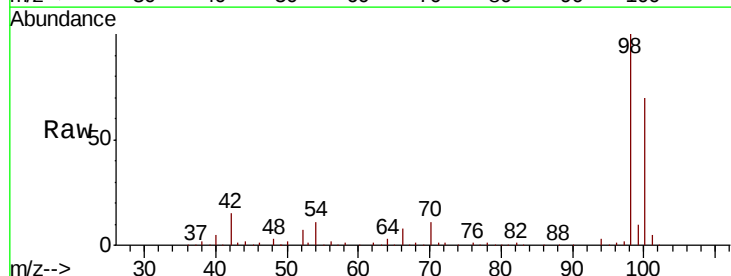
Acq: 28 Nov 2018 16:38

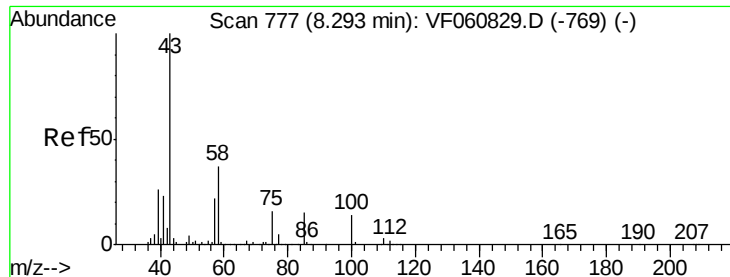
Tgt Ion: 98 Resp: 356741

Ion Ratio Lower Upper

98 100

100 70.1 59.3 88.9





#51

4-Methyl-2-Pentanone

Concen: 1.178 ug/l

RT: 8.27 min Scan# 775

Delta R.T. -0.02 min

Lab File: VF060859.D

Acq: 28 Nov 2018 16:38

Instrument :

MSVOA_F

ClientSampleId :

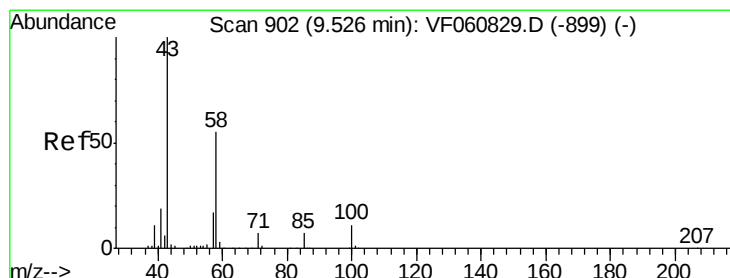
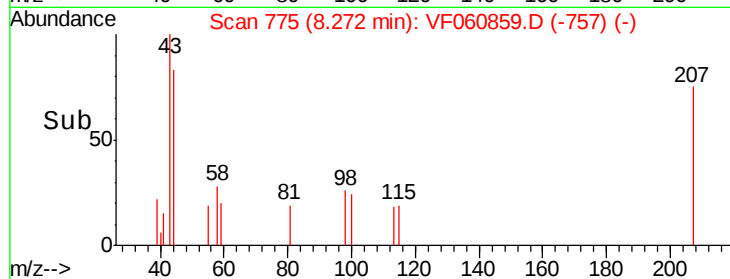
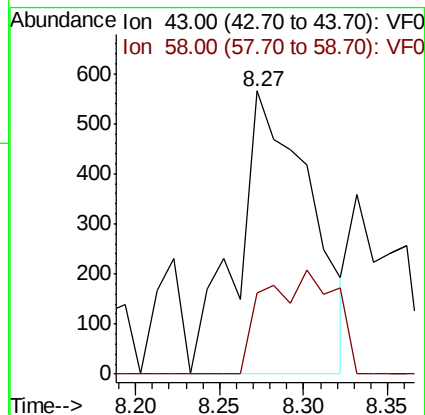
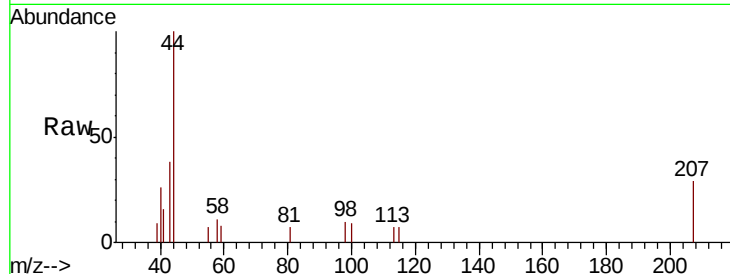
CL-02-112818-ARE

Tot Ion: 43 Resp: 1710

Ion Ratio Lower Upper

43 100

58 28.5 29.7 44.5#



#59

2-Hexanone

Concen: 1.732 ug/l

RT: 9.53 min Scan# 902

Delta R.T. -0.00 min

Lab File: VF060859.D

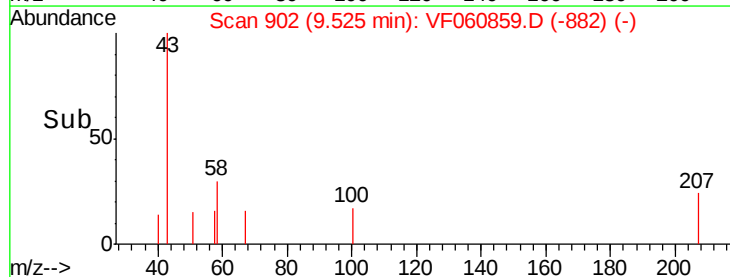
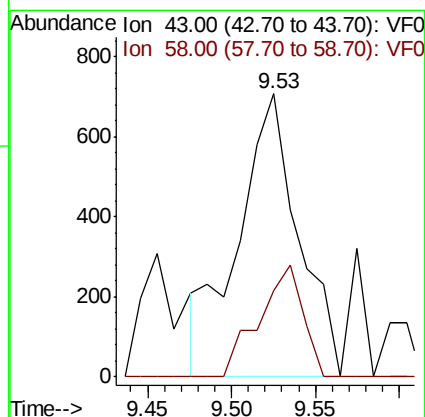
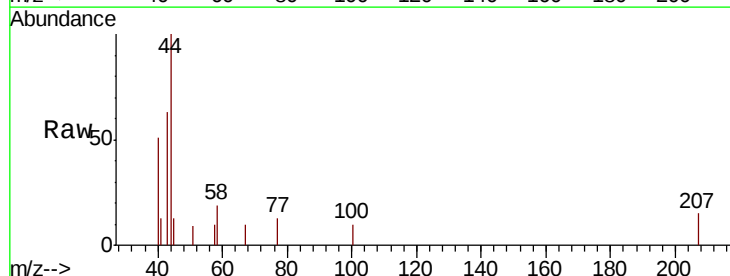
Acq: 28 Nov 2018 16:38

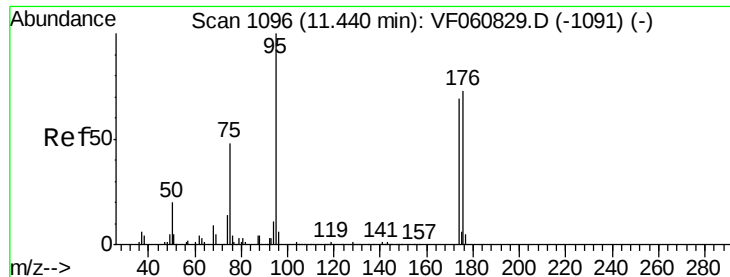
Tgt Ion: 43 Resp: 1764

Ion Ratio Lower Upper

43 100

58 30.4 25.6 76.6





#62

4-Bromofluorobenzene

Concen: 45.895 ug/l

RT: 11.43 min Scan# 1095

Delta R.T. -0.01 min

Lab File: VF060859.D

Acq: 28 Nov 2018 16:38

Instrument :

MSVOA_F

ClientSampleId :

CL-02-112818-ARE

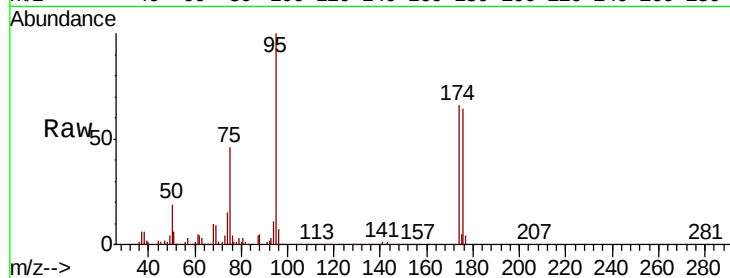
Tot Ion: 95 Resp: 170292

Ion Ratio Lower Upper

95 100

174 66.0 0.0 138.2

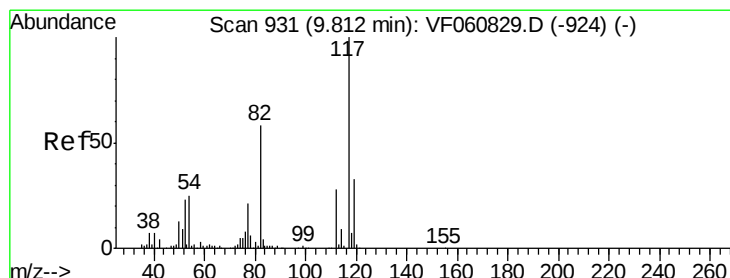
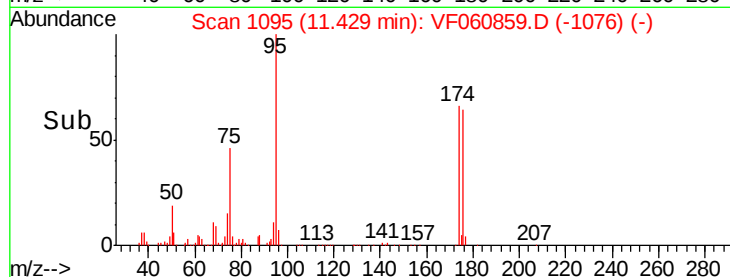
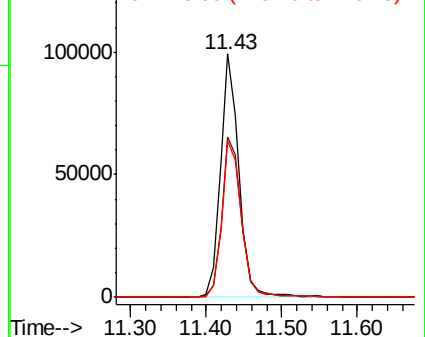
176 64.2 0.0 146.2



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.80 min Scan# 930

Delta R.T. -0.01 min

Lab File: VF060859.D

Acq: 28 Nov 2018 16:38

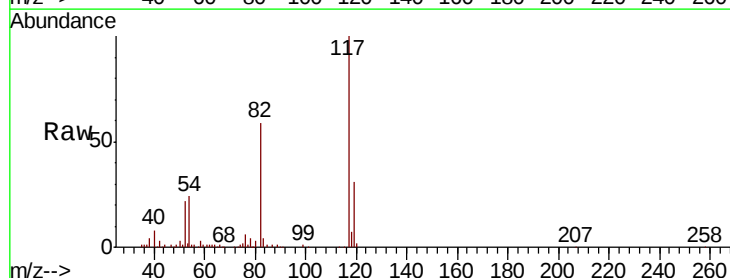
Tgt Ion: 117 Resp: 302462

Ion Ratio Lower Upper

117 100

82 59.0 46.6 69.8

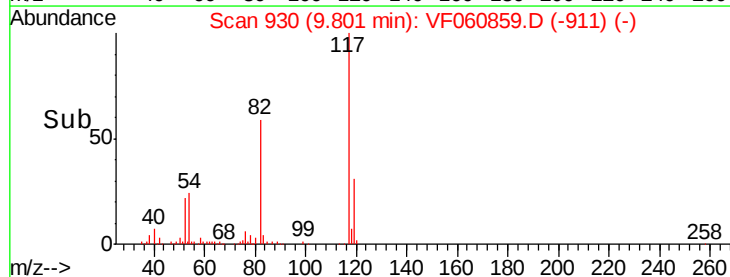
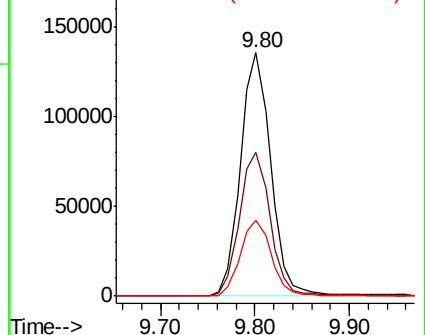
119 31.4 26.4 39.6

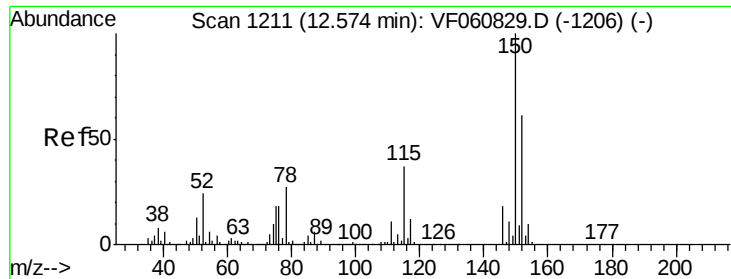


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.56 min Scan# 1210

Delta R.T. -0.01 min

Lab File: VF060859.D

Acq: 28 Nov 2018 16:38

Instrument :

MSVOA_F

ClientSampleId :

CL-02-112818-ARE

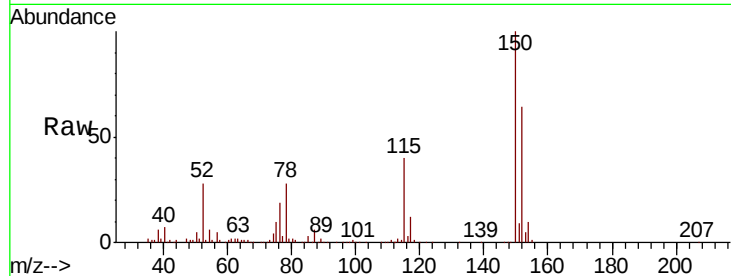
Tot Ion:152 Resp: 156550

Ion Ratio Lower Upper

152 100

115 62.6 30.1 90.5

150 155.6 0.0 327.6

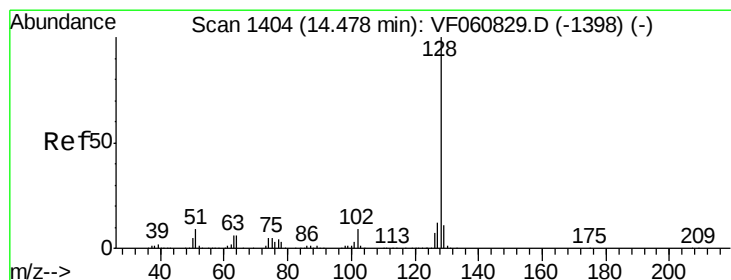
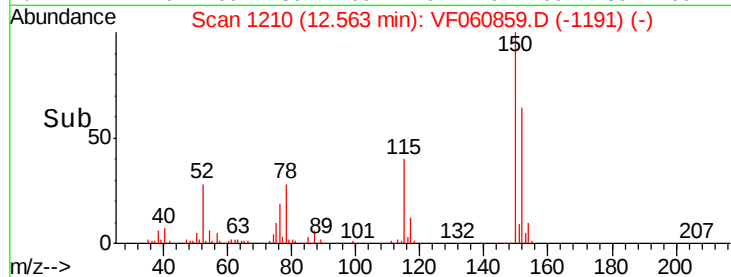
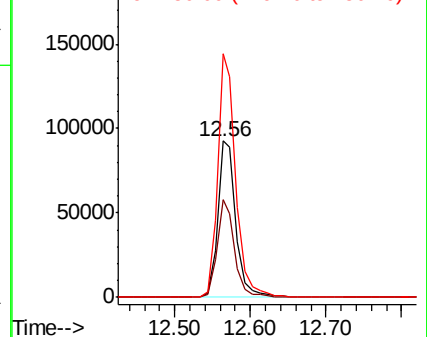


Abundance

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: 14.48 min Scan# 1404

Delta R.T. -0.00 min

Lab File: VF060859.D

Acq: 28 Nov 2018 16:38

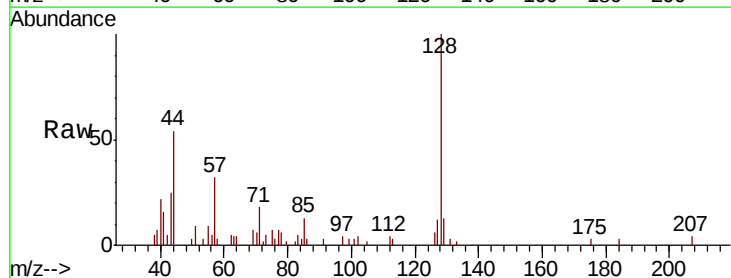
Tgt Ion:128 Resp: 6853

Ion Ratio Lower Upper

128 100

127 12.5 9.9 14.9

129 12.8 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

