

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121118\
 Data File : VF060979.D
 Acq On : 11 Dec 2018 16:32
 Operator : VA/AP
 Sample : J6193-03RE
 Misc : 6.03g/5mL/MSVOA-F/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 CL-01-121018-BRE

Quant Time: Dec 12 06:27:55 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	4.88	168	221228	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	5.61	114	371196	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.78	117	311739	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.55	152	104847	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.85	65	114243	43.84	ug/l	-0.03
Spiked Amount			Recovery	=	87.68%	
35) Dibromofluoromethane	4.12	113	81625	27.72	ug/l	-0.03
Spiked Amount			Recovery	=	55.44%	
50) Toluene-d8	7.56	98	289582	33.38	ug/l	-0.03
Spiked Amount			Recovery	=	66.76%	
62) 4-Bromofluorobenzene	11.42	95	114054	28.93	ug/l	-0.02
Spiked Amount			Recovery	=	57.86%	

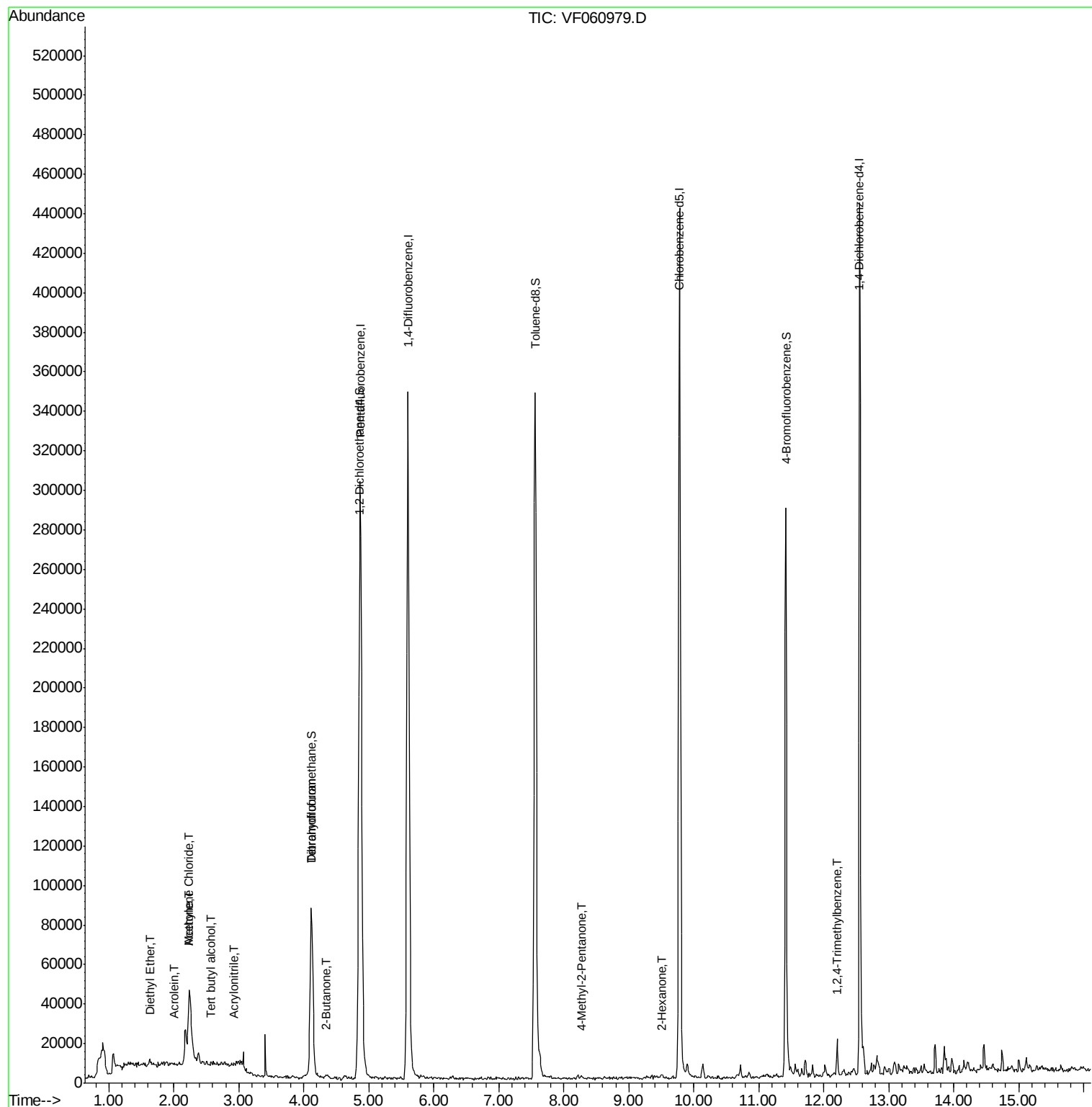
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	1.63	74	1252	2.021	ug/l	71
11) Tert butyl alcohol	2.59	59	630	5.897	ug/l #	62
13) Acrolein	2.00	56	218	2.154	ug/l	99
15) Acrylonitrile	2.93	53	398	1.662	ug/l #	28
16) Acetone	2.23	43	20110	41.845	ug/l #	91
18) Methyl Acetate	2.38	43	1310	Below Cal	#	61
20) Methylene Chloride	2.24	84	22113	12.542	ug/l	95
25) 2-Butanone	4.35	43	4748	5.712	ug/l #	91
29) Tetrahydrofuran	4.11	42	784	2.225	ug/l #	64
41) Methacrylonitrile	4.78	41	469	Below Cal	#	43
43) Isopropyl Acetate	6.91	43	156	Below Cal	#	49
51) 4-Methyl-2-Pentanone	8.27	43	1651	1.070	ug/l #	87
59) 2-Hexanone	9.49	43	1830	1.691	ug/l	79
84) 1,2,4-Trimethylbenzene	12.21	105	8791	1.310	ug/l	91
95) Naphthalene	14.47	128	4355	Below Cal	#	91

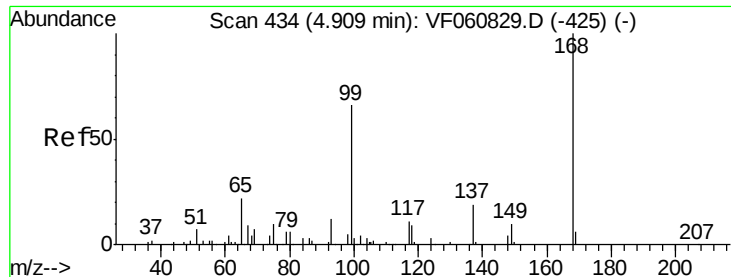
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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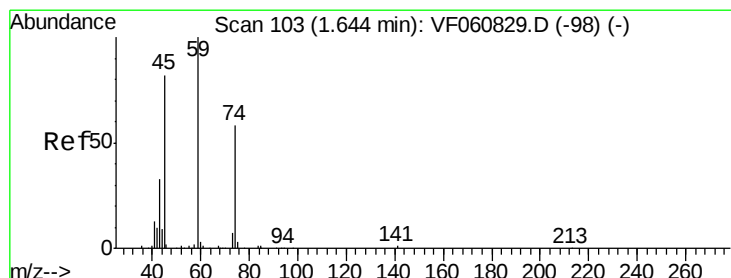
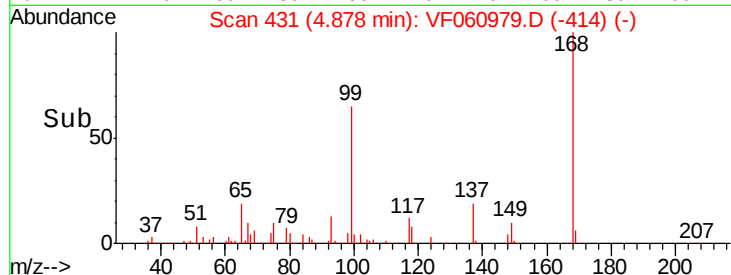
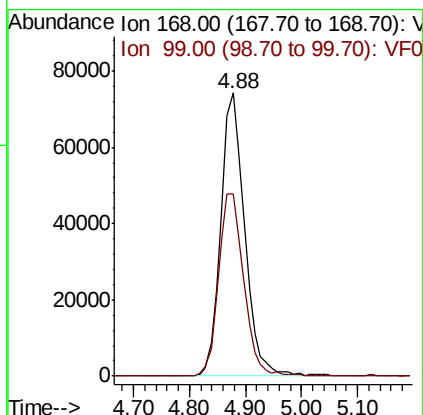
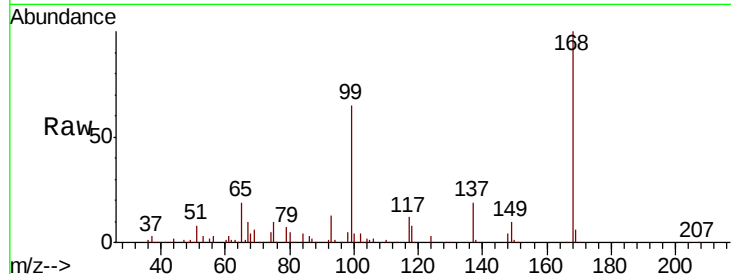




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.88 min Scan# 431
Delta R.T. -0.03 min
Lab File: VF060979.D
Acq: 11 Dec 2018 16:32

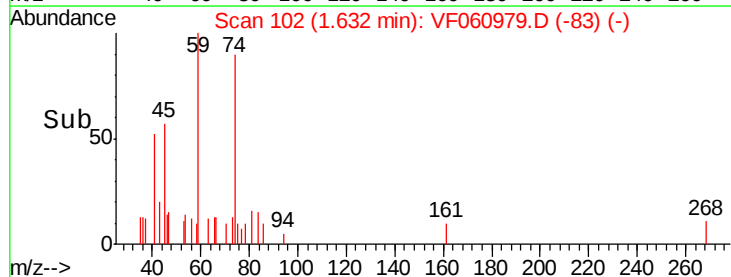
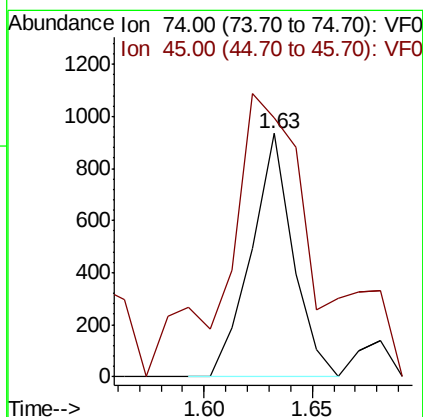
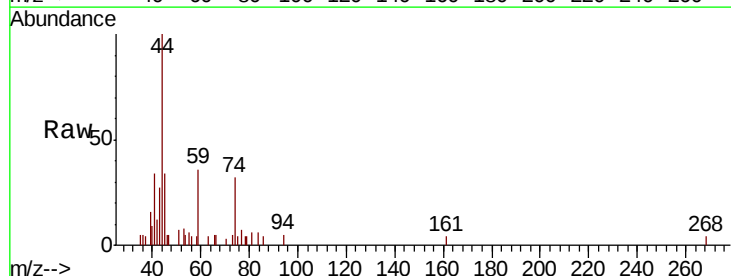
Instrument :
MSVOA_F
ClientSampleId :
CL-01-121018-BRE

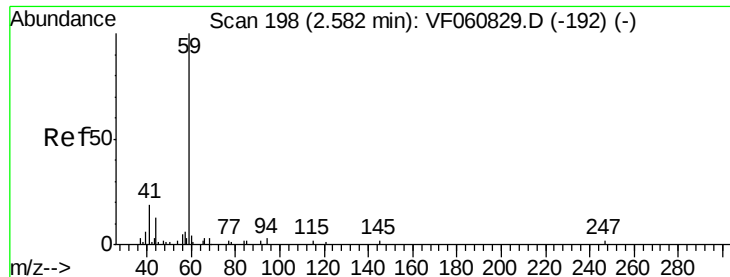
Tot Ion:168 Resp: 221228
Ion Ratio Lower Upper
168 100
99 64.6 52.6 79.0



#8
Diethyl Ether
Concen: 2.021 ug/l
RT: 1.63 min Scan# 102
Delta R.T. -0.01 min
Lab File: VF060979.D
Acq: 11 Dec 2018 16:32

Tgt Ion: 74 Resp: 1252
Ion Ratio Lower Upper
74 100
45 106.2 71.0 212.8





#11

Tert butyl alcohol

Concen: 5.897 ug/l

RT: 2.59 min Scan# 199

Delta R.T. 0.01 min

Lab File: VF060979.D

Acq: 11 Dec 2018 16:32

Instrument :

MSVOA_F

ClientSampleId :

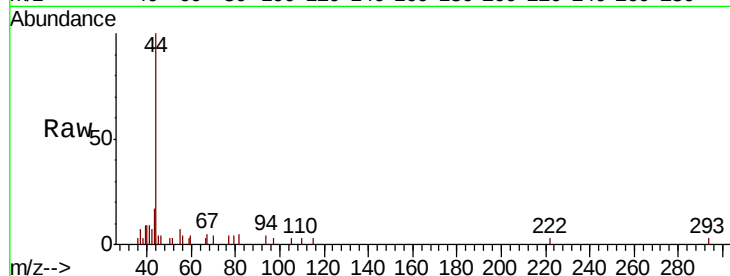
CL-01-121018-BRE

Tot Ion: 59 Resp: 630

Ion Ratio Lower Upper

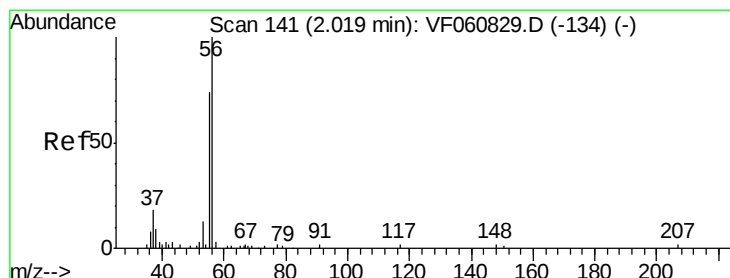
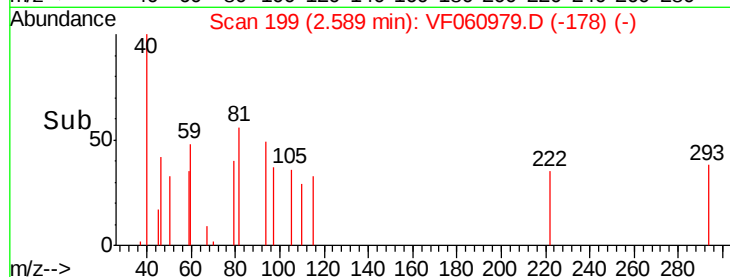
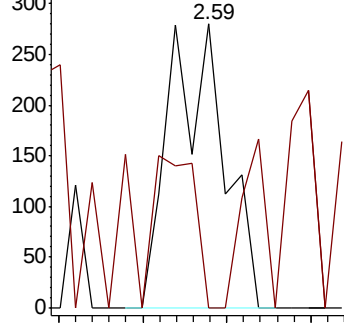
59 100

57 0.0 12.7 19.1#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0



#13

Acrolein

Concen: 2.154 ug/l

RT: 2.00 min Scan# 139

Delta R.T. -0.02 min

Lab File: VF060979.D

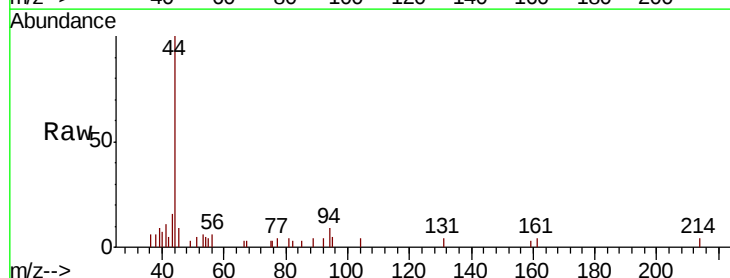
Acq: 11 Dec 2018 16:32

Tgt Ion: 56 Resp: 218

Ion Ratio Lower Upper

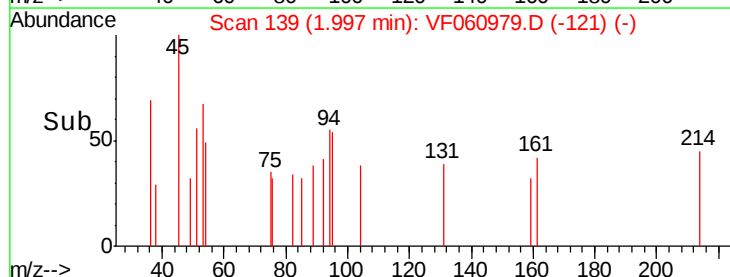
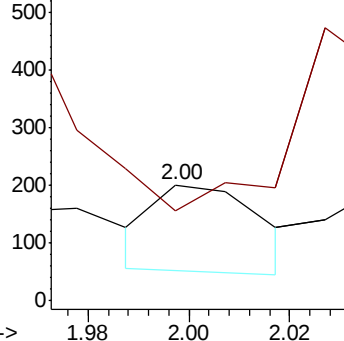
56 100

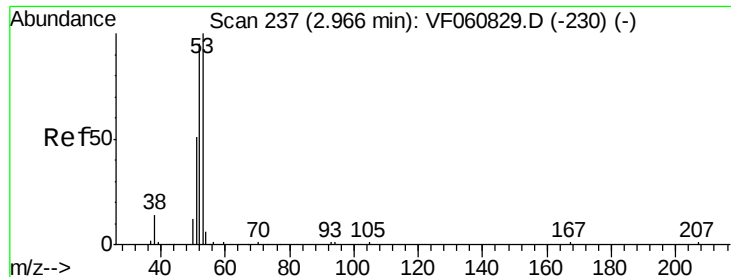
55 77.1 61.2 91.8



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0





#15

Acrylonitrile

Concen: 1.662 ug/l

RT: 2.93 min Scan# 234

Delta R.T. -0.03 min

Lab File: VF060979.D

Acq: 11 Dec 2018 16:32

Instrument :

MSVOA_F

ClientSampleId :

CL-01-121018-BRE

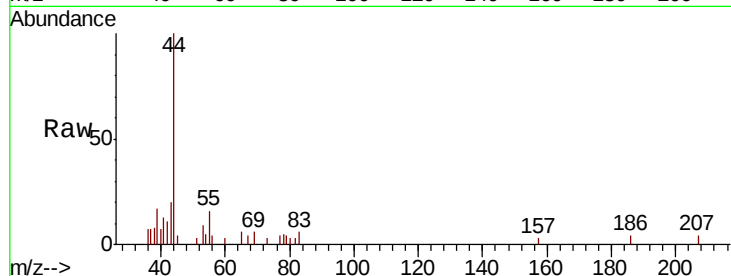
Tot Ion: 53 Resp: 398

Ion Ratio Lower Upper

53 100

52 0.0 76.5 114.7#

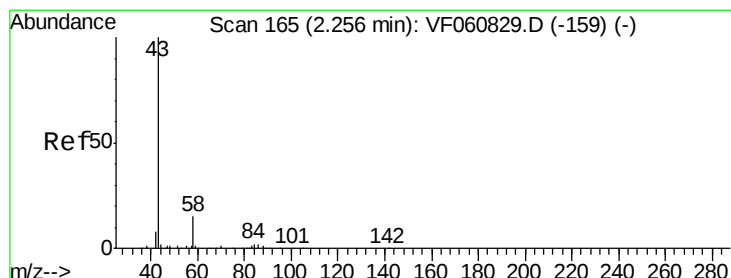
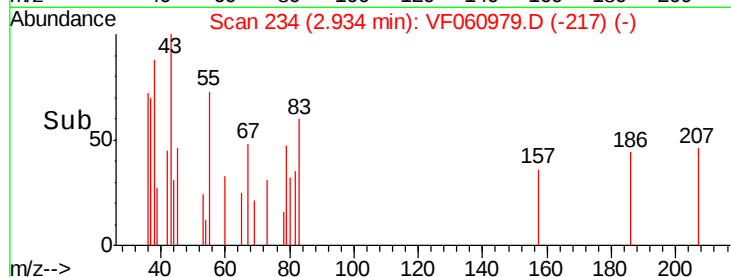
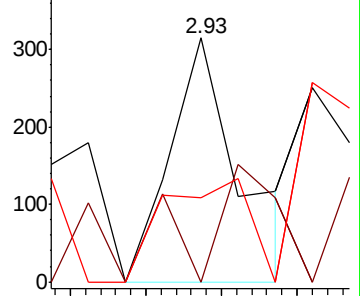
51 34.3 40.7 61.1#



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



#16

Acetone

Concen: 41.845 ug/l

RT: 2.23 min Scan# 163

Delta R.T. -0.02 min

Lab File: VF060979.D

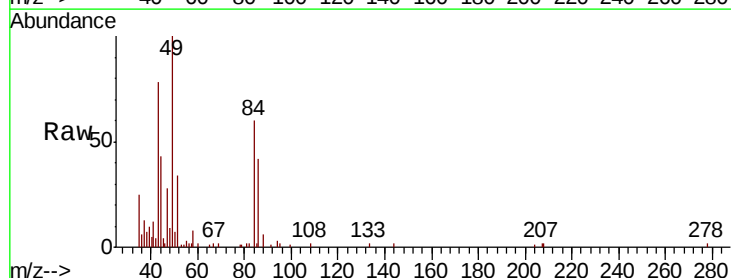
Acq: 11 Dec 2018 16:32

Tgt Ion: 43 Resp: 20110

Ion Ratio Lower Upper

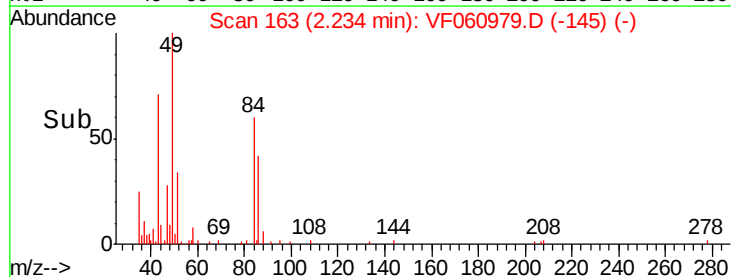
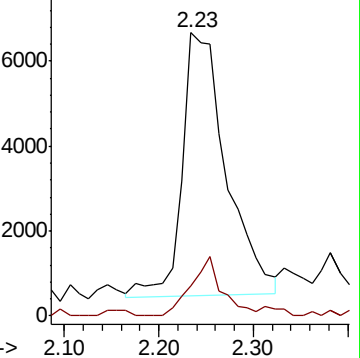
43 100

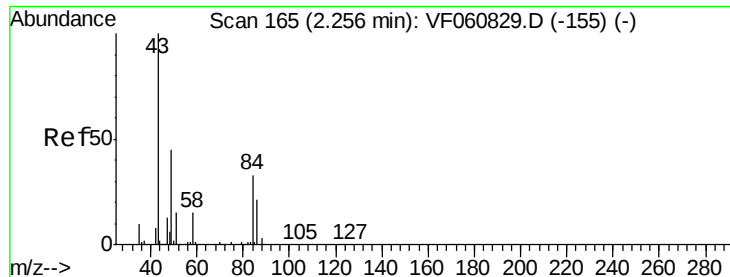
58 10.7 11.4 17.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

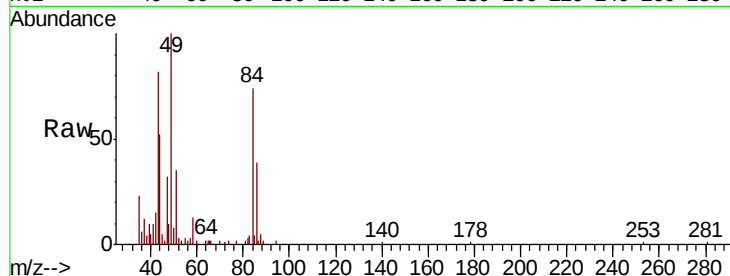




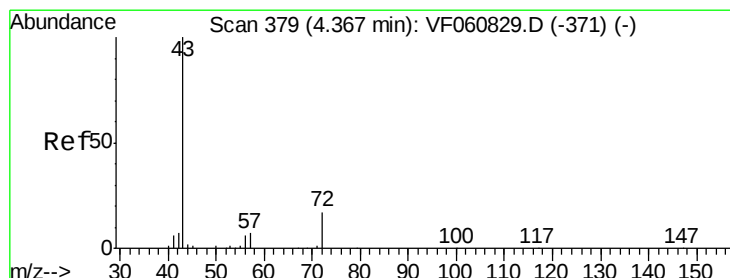
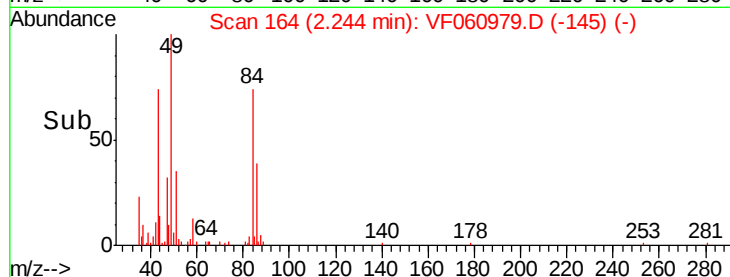
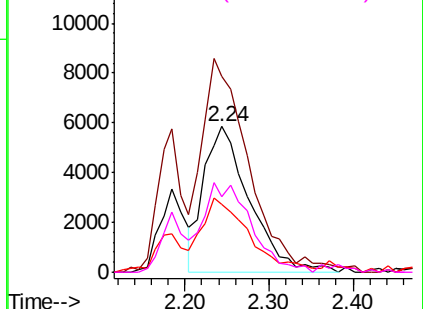
#20
Methvlene Chloride
Concen: 12.542 ug/l
RT: 2.24 min Scan# 164
Delta R.T. -0.01 min
Lab File: VF060979.D
Acq: 11 Dec 2018 16:32

Instrument :
MSVOA_F
ClientSampleId :
CL-01-121018-BRE

Tot Ion: 84 Resp: 22113
Ion Ratio Lower Upper
84 100
49 134.7 111.3 166.9
51 46.9 38.0 57.0
86 52.3 49.8 74.8

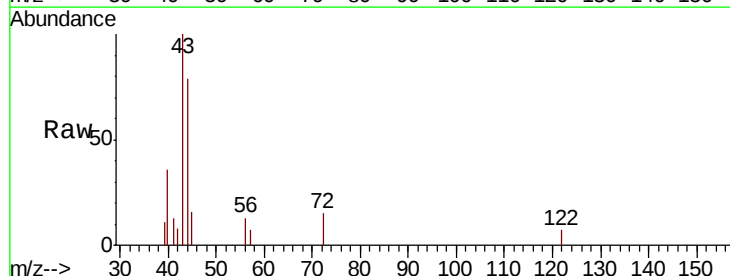


Abundance Ion 84.00 (83.70 to 84.70): VF0
Ion 49.00 (48.70 to 49.70): VF0
Ion 51.00 (50.70 to 51.70): VF0
Ion 86.00 (85.70 to 86.70): VF0

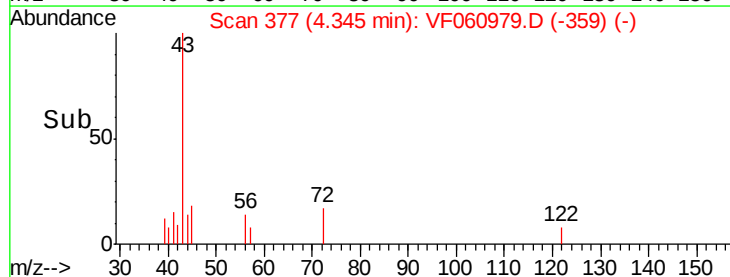
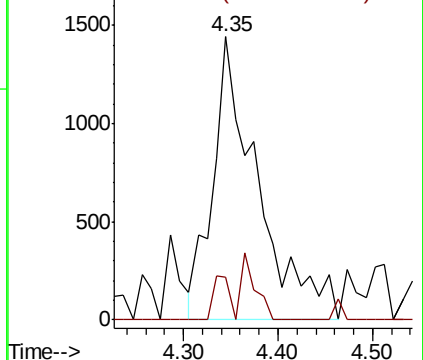


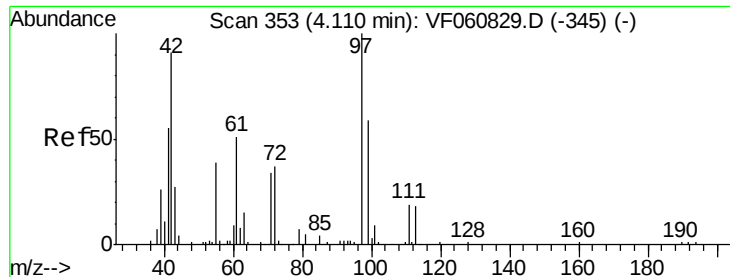
#25
2-Butanone
Concen: 5.712 ug/l
RT: 4.35 min Scan# 377
Delta R.T. -0.02 min
Lab File: VF060979.D
Acq: 11 Dec 2018 16:32

Tgt Ion: 43 Resp: 4748
Ion Ratio Lower Upper
43 100
72 15.2 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: 2.225 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.00 min

Lab File: VF060979.D

Acq: 11 Dec 2018 16:32

Instrument :

MSVOA_F

ClientSampleId :

CL-01-121018-BRE

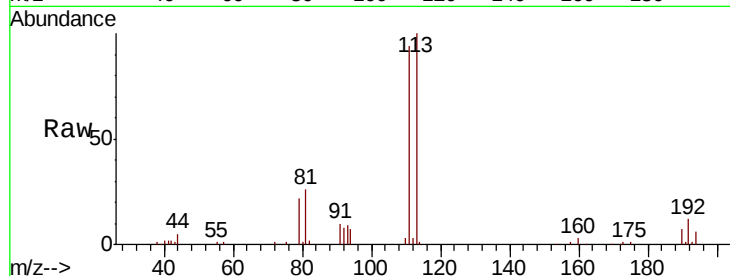
Tot Ion: 42 Resp: 784

Ion Ratio Lower Upper

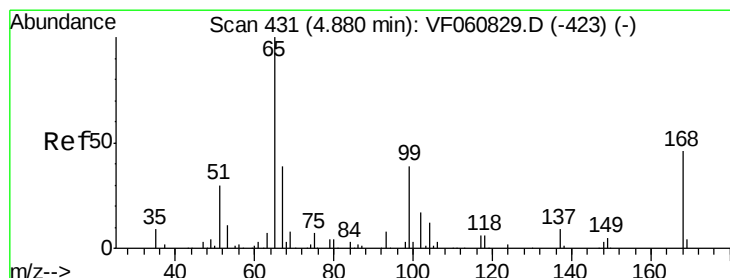
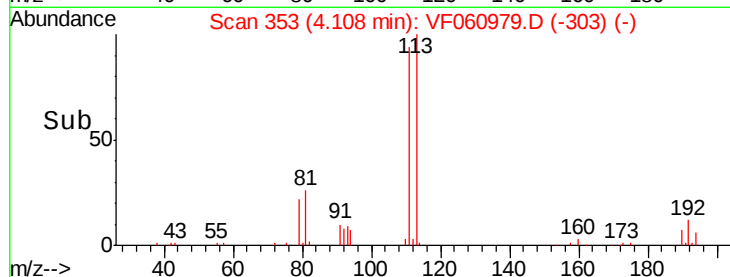
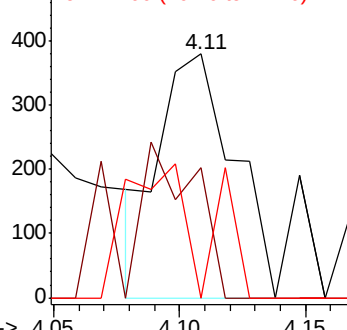
42 100

72 61.4 31.9 47.9#

71 57.8 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: 43.836 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.03 min

Lab File: VF060979.D

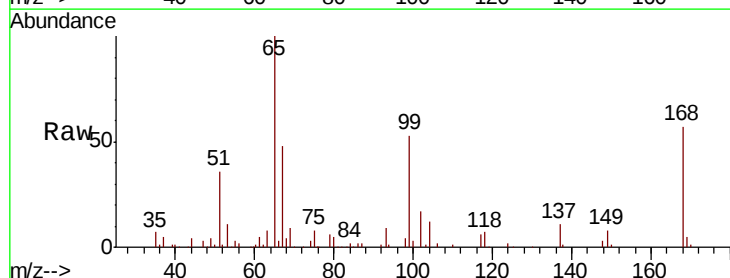
Acq: 11 Dec 2018 16:32

Tgt Ion: 65 Resp: 114243

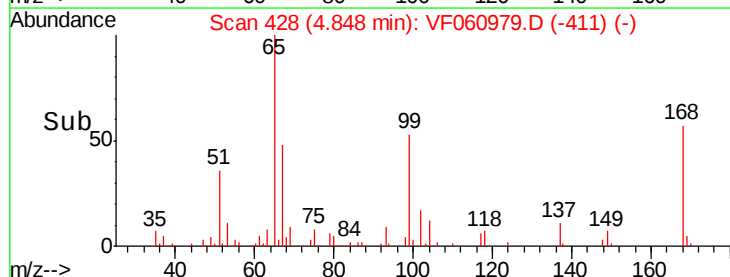
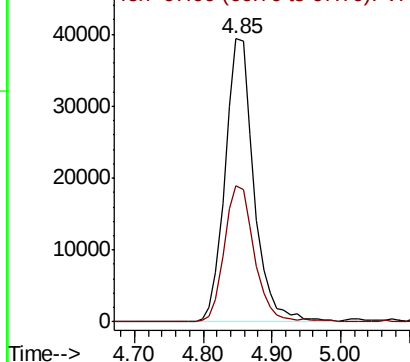
Ion Ratio Lower Upper

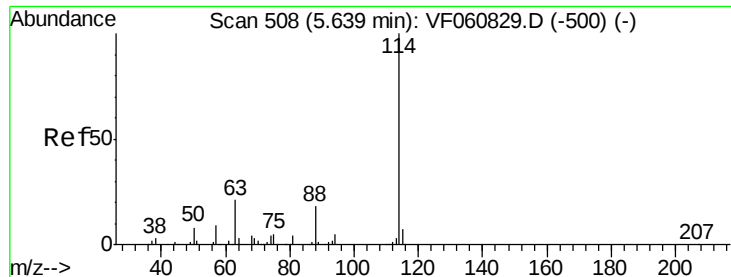
65 100

67 48.1 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: 5.61 min Scan# 505

Delta R.T. -0.03 min

Lab File: VF060979.D

Acq: 11 Dec 2018 16:32

Instrument :

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ClientSampleId :

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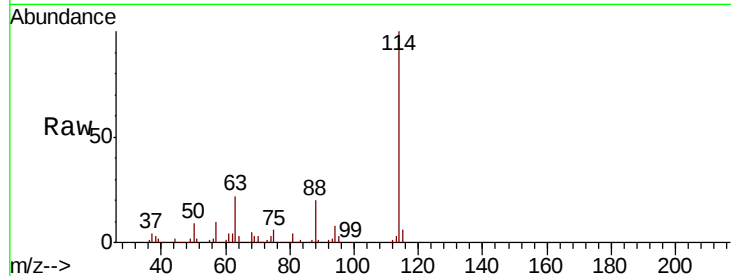
Tot Ion:114 Resp: 371196

Ion Ratio Lower Upper

114 100

63 22.1 0.0 41.6

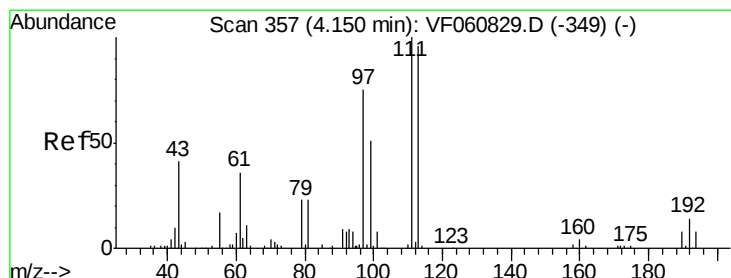
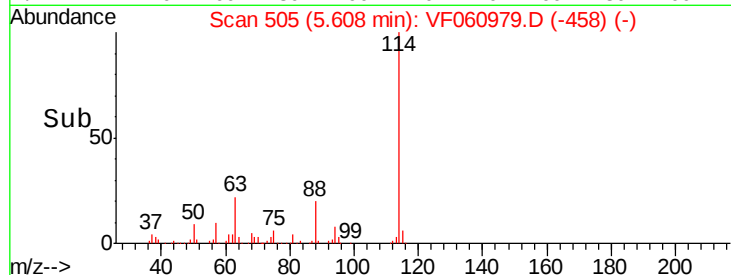
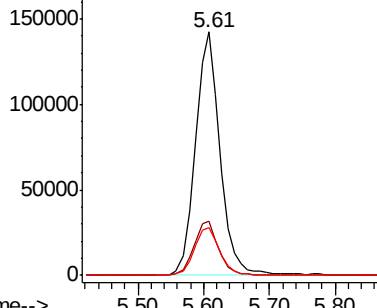
88 19.6 0.0 36.6



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: 27.718 ug/l

RT: 4.12 min Scan# 354

Delta R.T. -0.03 min

Lab File: VF060979.D

Acq: 11 Dec 2018 16:32

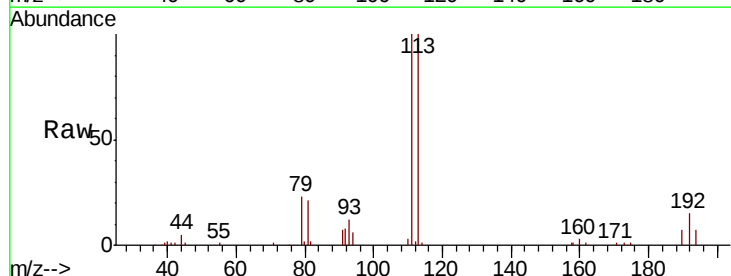
Tgt Ion:113 Resp: 81625

Ion Ratio Lower Upper

113 100

111 99.8 83.0 124.6

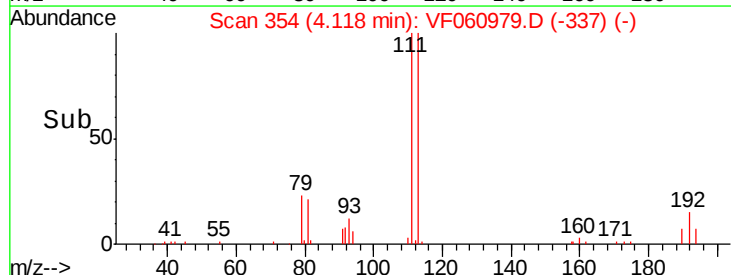
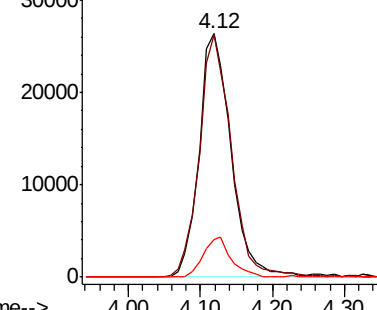
192 15.2 12.3 18.5

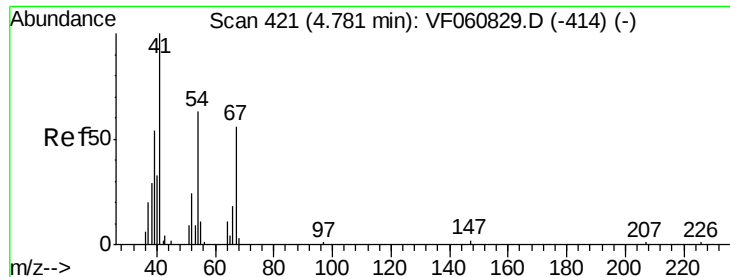


Abundance Ion 113.00 (112.70 to 113.70): V

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: VF060979.D

Acq: 11 Dec 2018 16:32

Instrument :

MSVOA_F

ClientSampleId :

CL-01-121018-BRE

Tot Ion: 41 Resp: 469

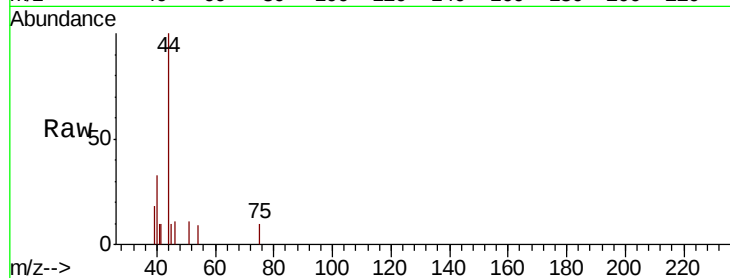
Ion Ratio Lower Upper

41 100

39 91.9 53.0 79.6#

67 0.0 43.8 65.6#

52 0.0 37.8 56.8#

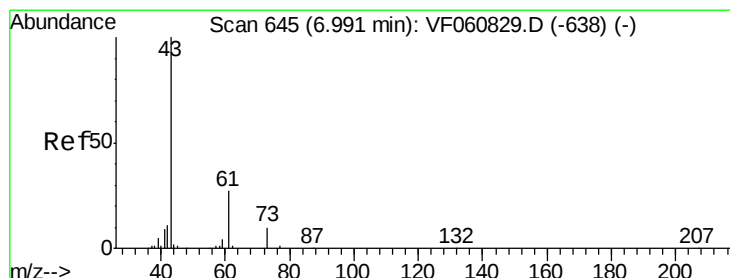
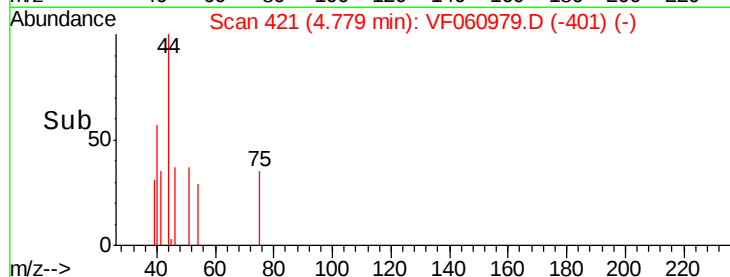
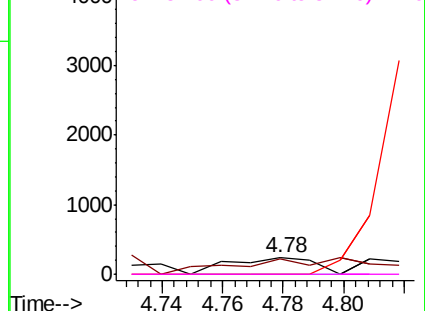


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#43

Isopropyl Acetate

Concen: Below Cal

RT: 6.91 min Scan# 637

Delta R.T. -0.08 min

Lab File: VF060979.D

Acq: 11 Dec 2018 16:32

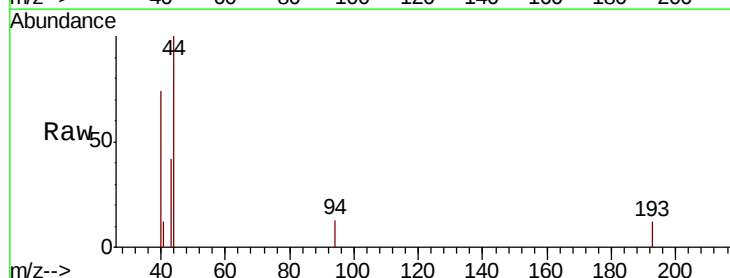
Tgt Ion: 43 Resp: 156

Ion Ratio Lower Upper

43 100

61 0.0 21.4 32.0#

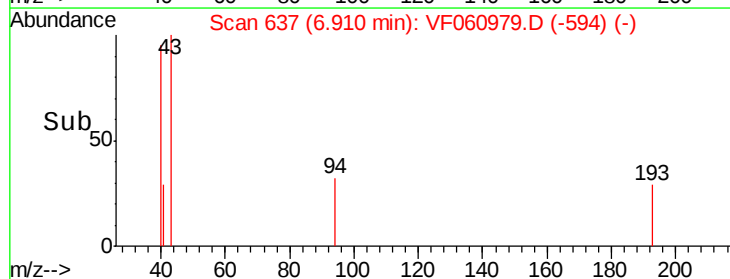
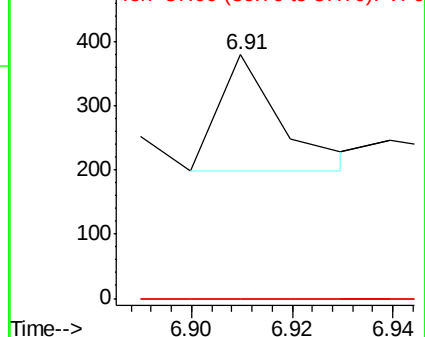
87 0.0 0.2 0.4#

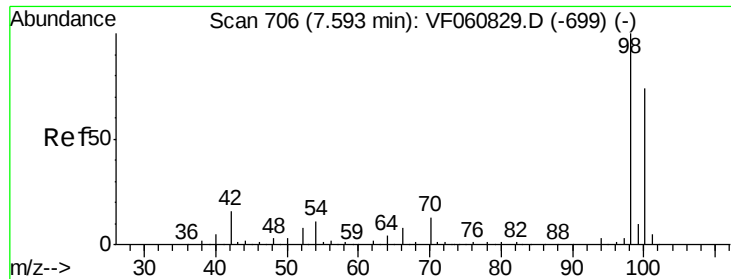


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

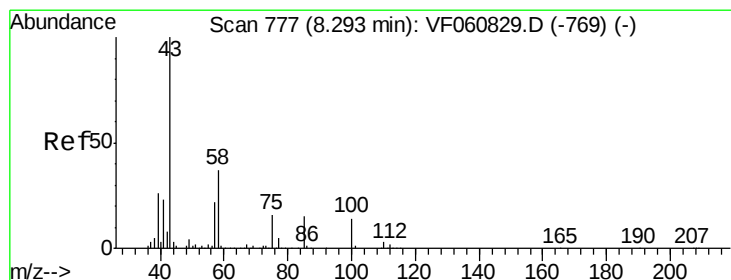
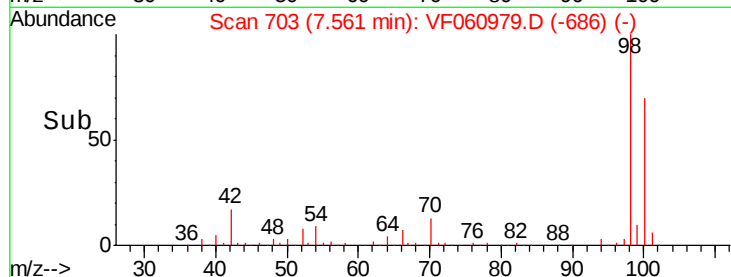
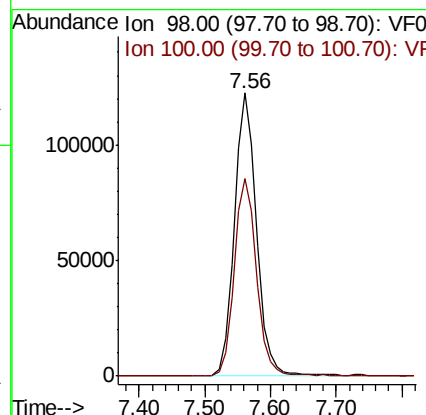
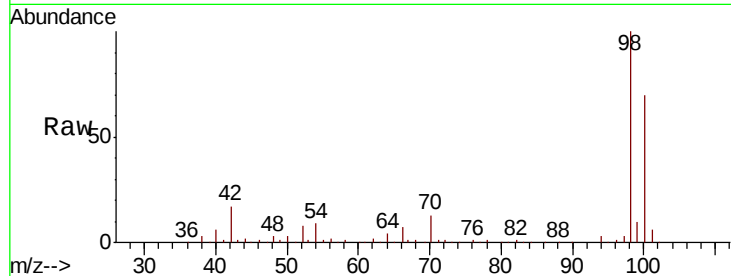




#50
Toluene-d8
Concen: 33.383 ug/l
RT: 7.56 min Scan# 703
Delta R.T. -0.03 min
Lab File: VF060979.D
Acq: 11 Dec 2018 16:32

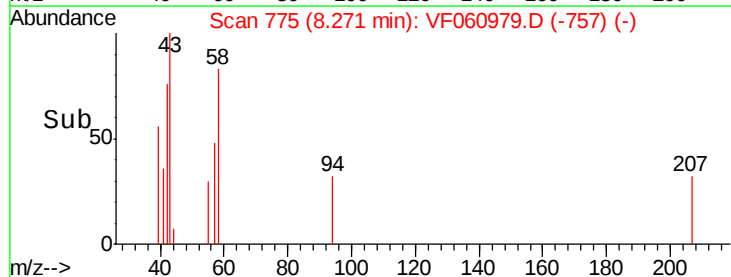
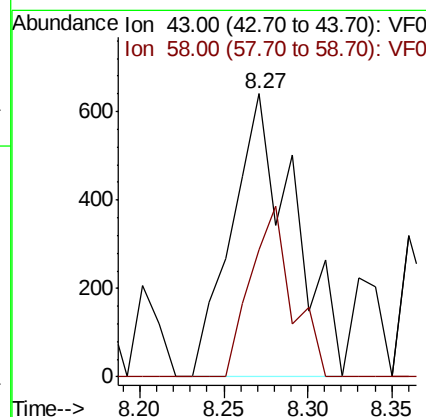
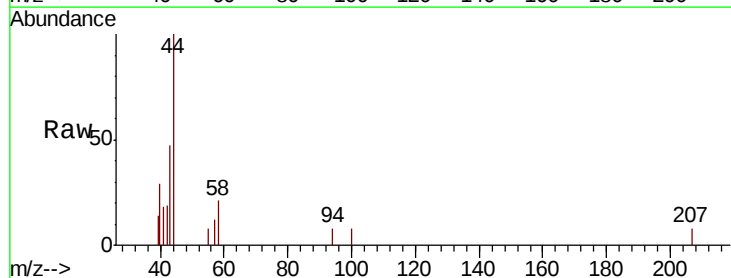
Instrument :
MSVOA_F
ClientSampleId :
CL-01-121018-BRE

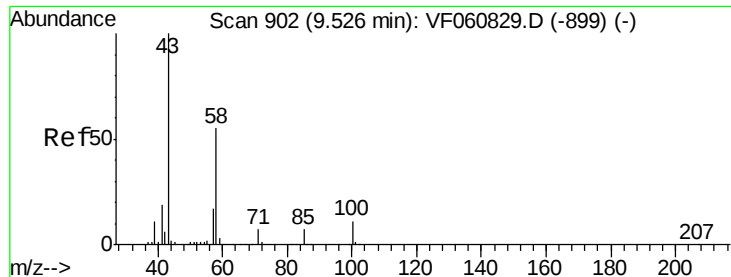
Tot Ion: 98 Resp: 289582
Ion Ratio Lower Upper
98 100
100 69.6 59.3 88.9



#51
4-Methyl-2-Pentanone
Concen: 1.070 ug/l
RT: 8.27 min Scan# 775
Delta R.T. -0.02 min
Lab File: VF060979.D
Acq: 11 Dec 2018 16:32

Tgt Ion: 43 Resp: 1651
Ion Ratio Lower Upper
43 100
58 45.0 29.7 44.5#

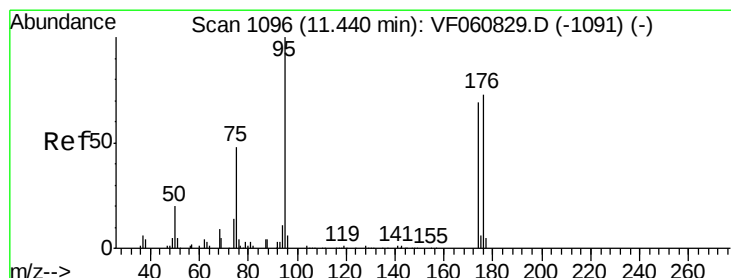
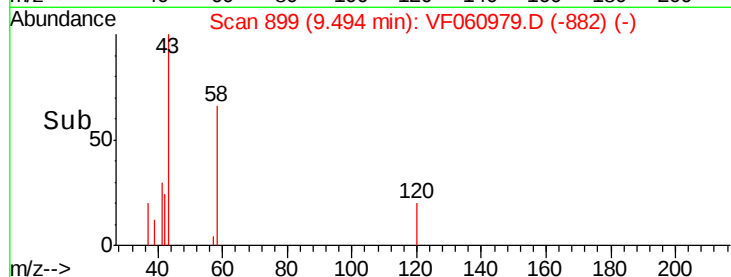
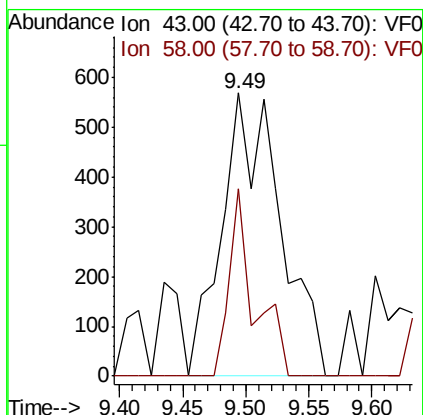
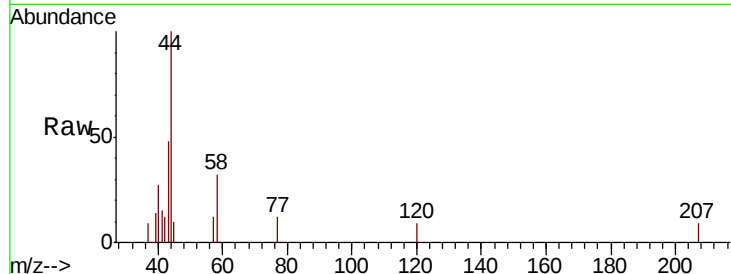




#59
2-Hexanone
Concen: 1.691 ug/l
RT: 9.49 min Scan# 899
Delta R.T. -0.03 min
Lab File: VF060979.D
Acq: 11 Dec 2018 16:32

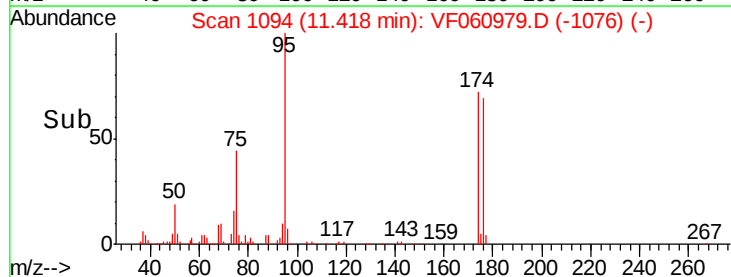
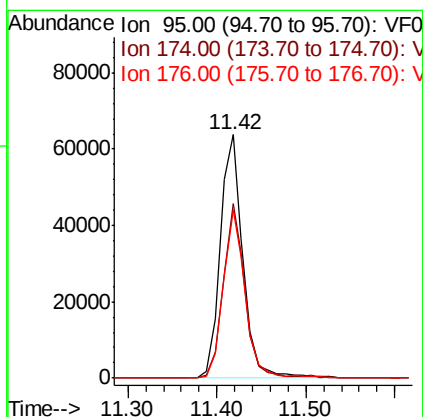
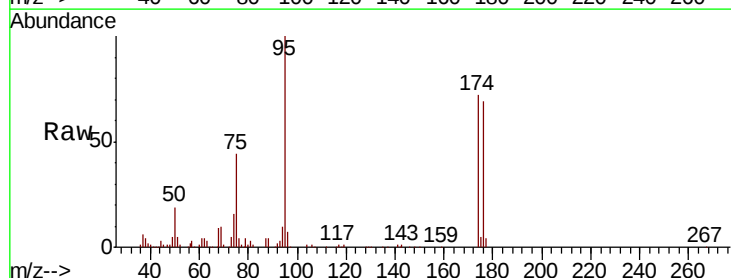
Instrument :
MSVOA_F
ClientSampleId :
CL-01-121018-BRE

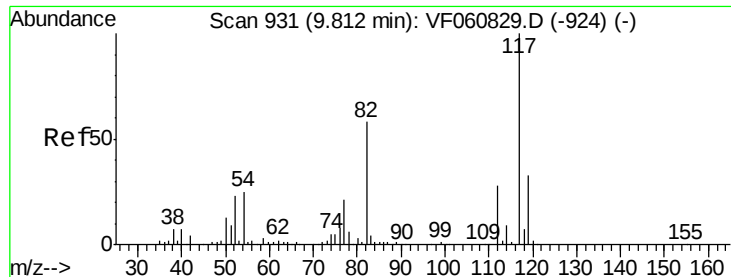
Tot Ion: 43 Resp: 1830
Ion Ratio Lower Upper
43 100
58 66.0 25.6 76.6



#62
4-Bromofluorobenzene
Concen: 28.930 ug/l
RT: 11.42 min Scan# 1094
Delta R.T. -0.02 min
Lab File: VF060979.D
Acq: 11 Dec 2018 16:32

Tgt Ion: 95 Resp: 114054
Ion Ratio Lower Upper
95 100
174 71.8 0.0 138.2
176 69.2 0.0 146.2

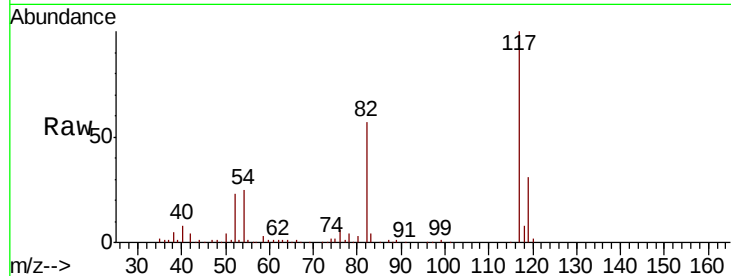




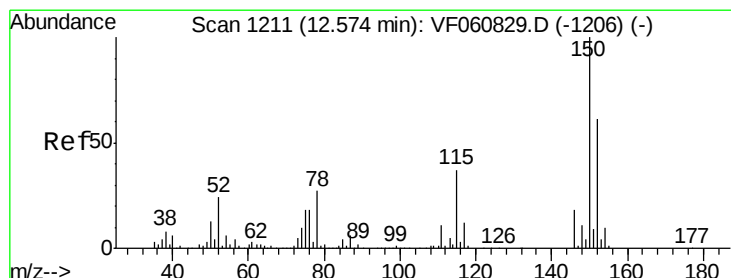
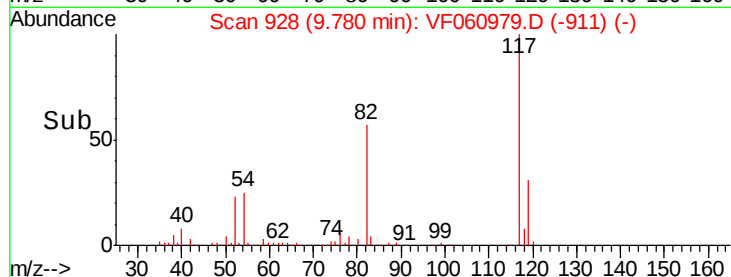
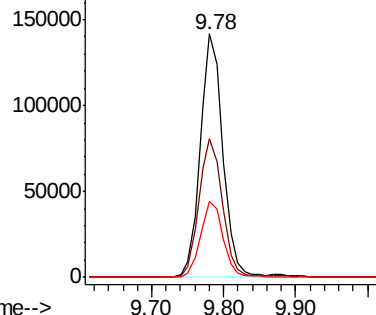
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.03 min
Lab File: VF060979.D
Acq: 11 Dec 2018 16:32

Instrument :
MSVOA_F
ClientSampleId :
CL-01-121018-BRE

Tot Ion:117 Resp: 311739
Ion Ratio Lower Upper
117 100
82 57.1 46.6 69.8
119 31.1 26.4 39.6

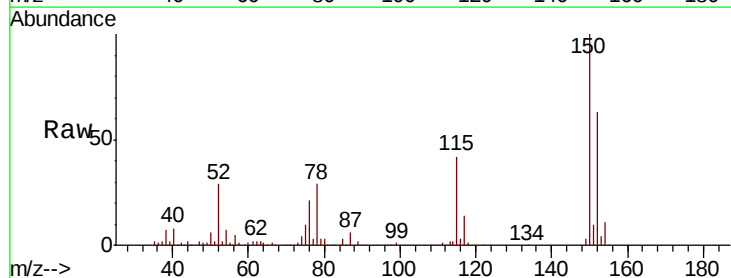


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

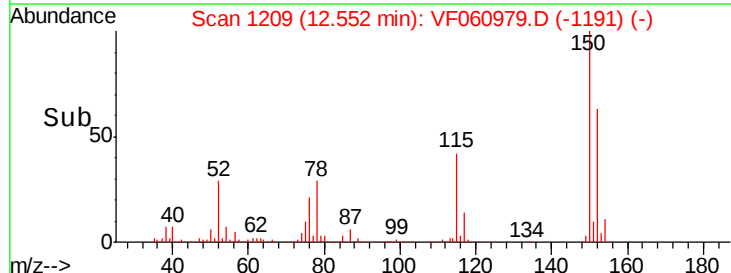
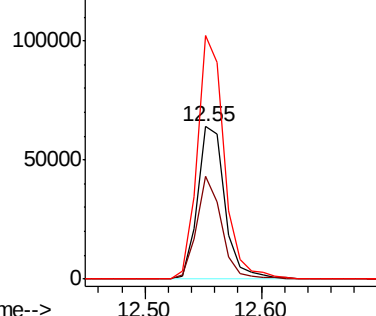


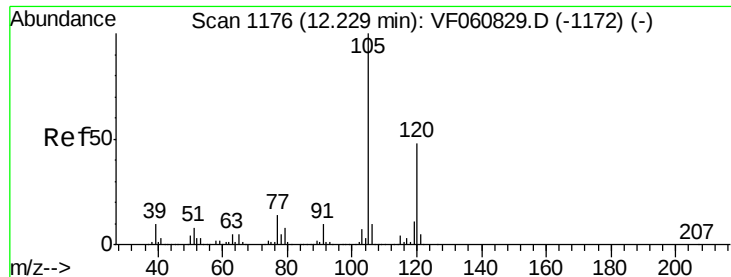
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. -0.02 min
Lab File: VF060979.D
Acq: 11 Dec 2018 16:32

Tgt Ion:152 Resp: 104847
Ion Ratio Lower Upper
152 100
115 67.6 30.1 90.5
150 159.6 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

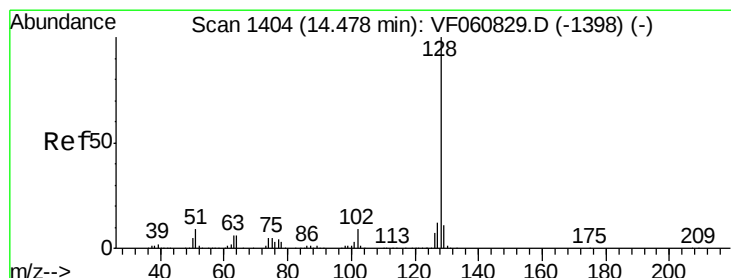
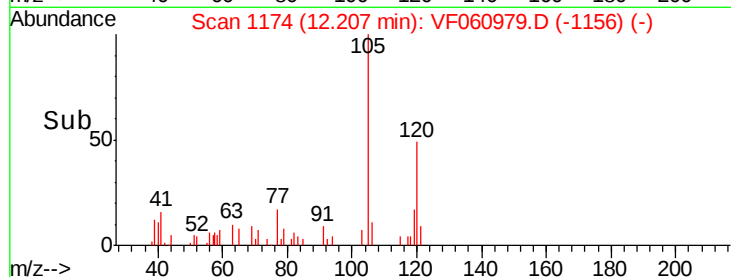
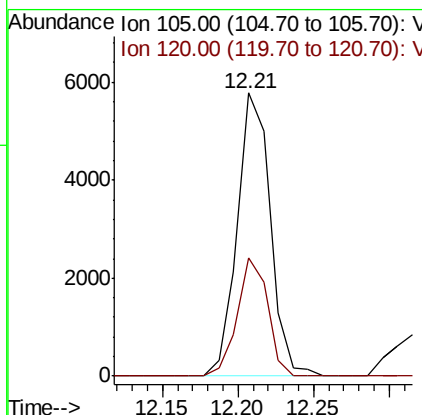
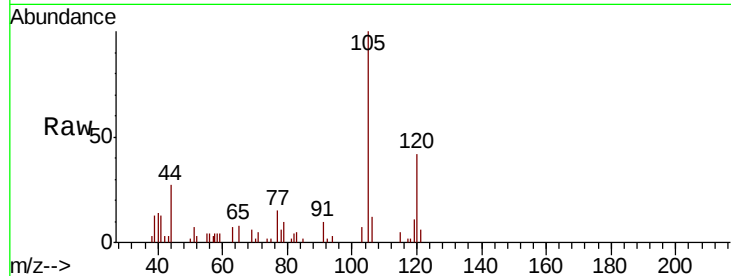




#84
 1,2,4-Trimethylbenzene
 Concen: 1.310 ug/l
 RT: 12.21 min Scan# 1174
 Delta R.T. -0.02 min
 Lab File: VF060979.D
 Acq: 11 Dec 2018 16:32

Instrument :
 MSVOA_F
 ClientSampleId :
 CL-01-121018-BRE

Tot Ion:105 Resp: 8791
 Ion Ratio Lower Upper
 105 100
 120 41.9 23.8 71.5



#95
 Naphthalene
 Concen: Below Cal
 RT: 14.47 min Scan# 1403
 Delta R.T. -0.01 min
 Lab File: VF060979.D
 Acq: 11 Dec 2018 16:32

Tgt Ion:128 Resp: 4355
 Ion Ratio Lower Upper
 128 100
 127 14.3 9.9 14.9
 129 16.5 9.1 13.7#

