

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF091018\
 Data File : VF060230.D
 Acq On : 10 Sep 2018 13:08
 Operator : VA/AP
 Sample : J4803-01RE
 Misc : 4.92g/5mL/MSVOA F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 EP1-Q2-E5

Quant Time: Sep 11 07:10:35 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F090618S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 07 10:44:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.05	168	197442	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.77	114	278456	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	298070	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	191968	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.02	65	111024	32.19	ug/l	0.00
Spiked Amount			Recovery	=	64.38%	
35) Dibromofluoromethane	4.29	113	101003	37.02	ug/l	0.00
Spiked Amount			Recovery	=	74.04%	
50) Toluene-d8	7.71	98	246512	36.21	ug/l	0.00
Spiked Amount			Recovery	=	72.42%	
62) 4-Bromofluorobenzene	11.51	95	145465	37.87	ug/l	0.00
Spiked Amount			Recovery	=	75.74%	

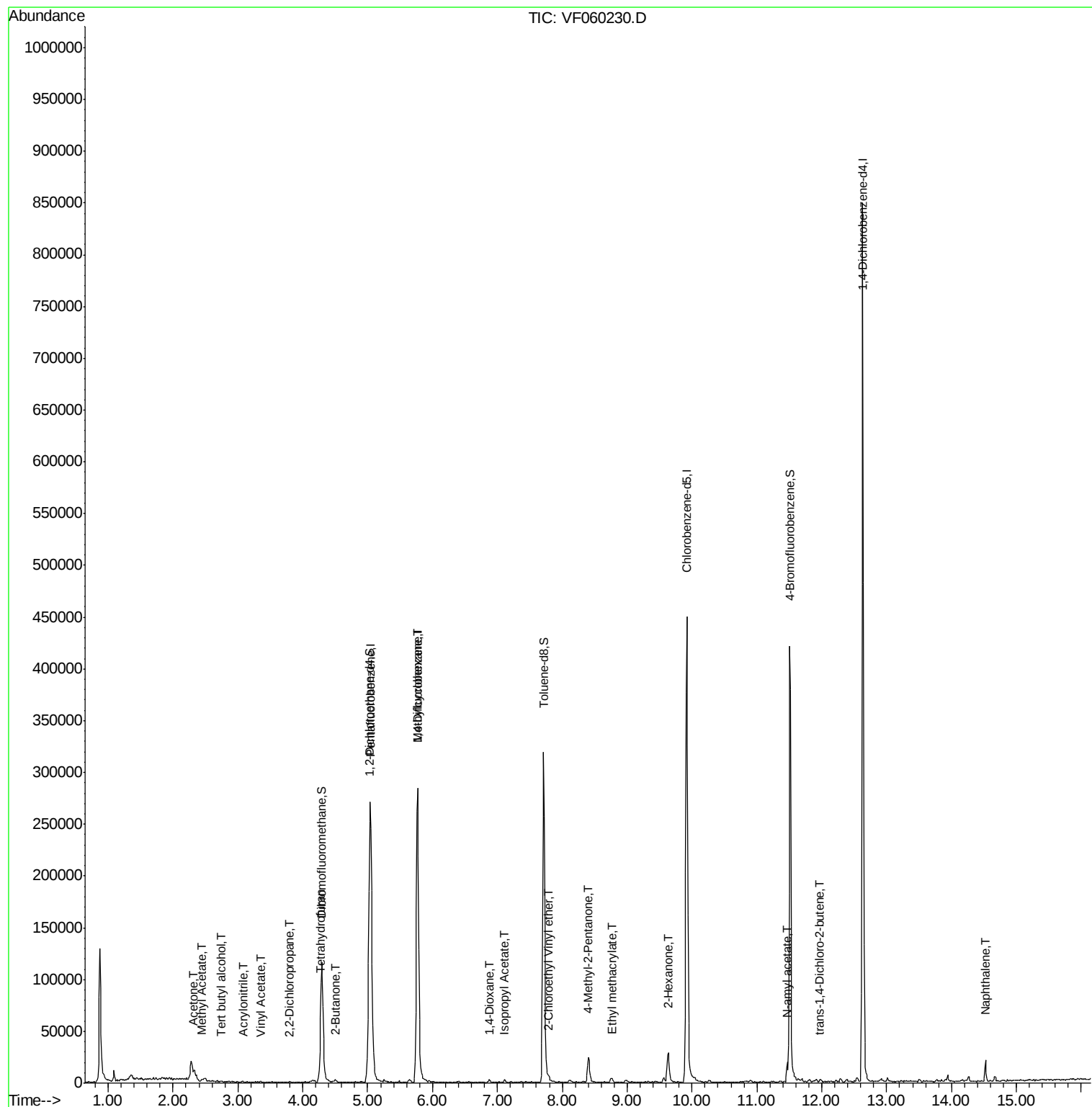
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.72	59	66	12.82	ug/l #	75
13) Acrolein	2.11	56	91	Below Cal	#	23
15) Acrylonitrile	3.07	53	284	1.08	ug/l #	65
16) Acetone	2.33	43	9740	21.59	ug/l	96
18) Methyl Acetate	2.45	43	1267	1.09	ug/l	97
20) Methylene Chloride	2.28	84	9660	Below Cal		91
23) Vinyl Acetate	3.34	43	326	22.93	ug/l #	82
25) 2-Butanone	4.50	43	3864	3.99	ug/l	92
26) 2,2-Dichloropropane	3.80	77	69	2.05	ug/l #	64
29) Tetrahydrofuran	4.26	42	791	2.47	ug/l #	84
37) Ethyl Acetate	4.26	43	886	Below Cal	#	80
39) Methylcyclohexane	5.77	83	3839	1.40	ug/l #	26
43) Isopropyl Acetate	7.11	43	2470	1.30	ug/l #	80
49) 1,4-Dioxane	6.87	88	70	3.15	ug/l #	15
51) 4-Methyl-2-Pentanone	8.40	43	20994	12.40	ug/l	94
56) Ethyl methacrylate	8.76	69	2222	1.17	ug/l #	80
58) 2-Chloroethyl Vinyl ether	7.79	63	358	1.75	ug/l	100
59) 2-Hexanone	9.63	43	25435	18.99	ug/l	94
64) Tetrachloroethene	8.31	164	188	Below Cal	#	50
74) N-amyl acetate	11.47	43	10910	8.54	ug/l #	95
81) trans-1,4-Dichloro-2-buten	11.96	75	315	3.15	ug/l #	9
95) Naphthalene	14.52	128	12920	4.30	ug/l	97

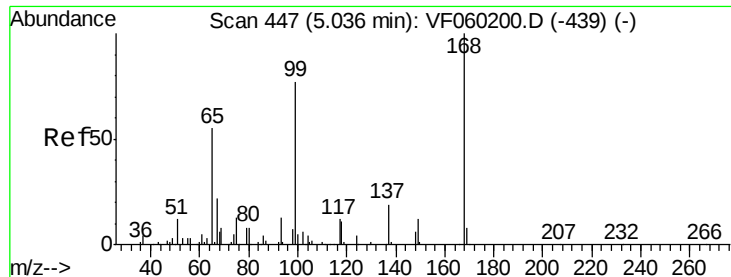
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 11 07:10:35 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F090618S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 07 10:44:05 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.05 min Scan# 448

Delta R.T. 0.01 min

Lab File: VF060230.D

Acq: 10 Sep 2018 13:08

Instrument :

MSVOA_F

ClientSampleId :

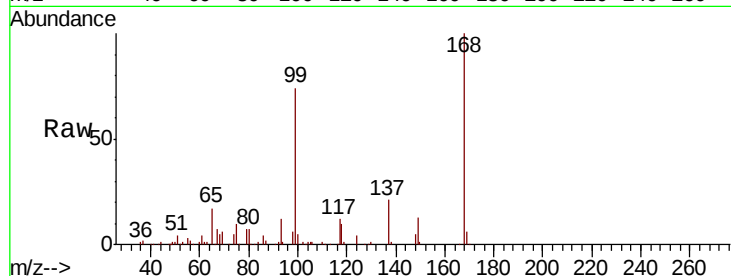
EP1-Q2-E5

Tot Ion:168 Resp: 197442

Ion Ratio Lower Upper

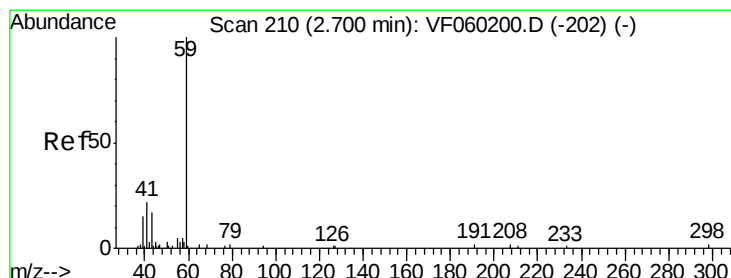
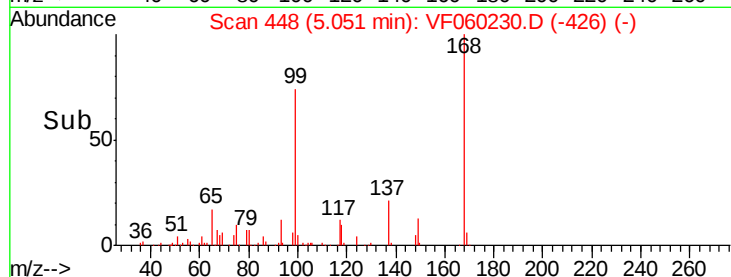
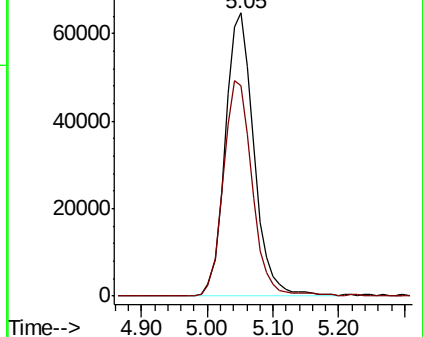
168 100

99 74.4 61.8 92.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#11

Tert butyl alcohol

Concen: 12.82 ug/l

RT: 2.72 min Scan# 212

Delta R.T. 0.02 min

Lab File: VF060230.D

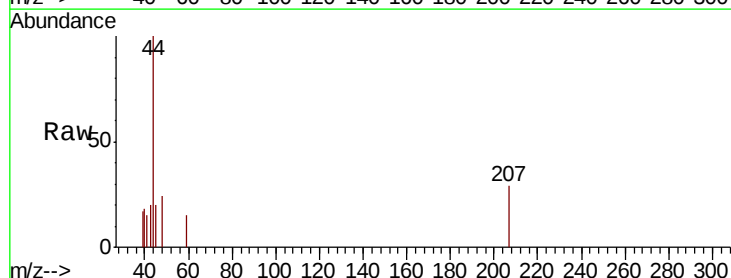
Acq: 10 Sep 2018 13:08

Tgt Ion: 59 Resp: 66

Ion Ratio Lower Upper

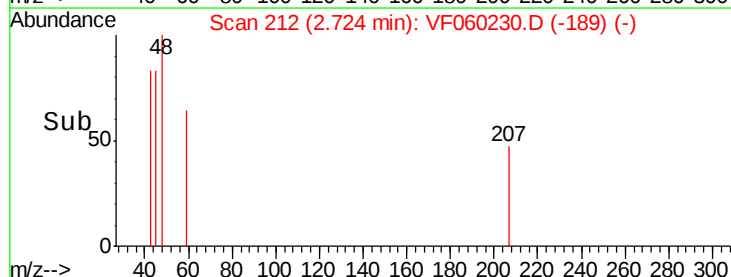
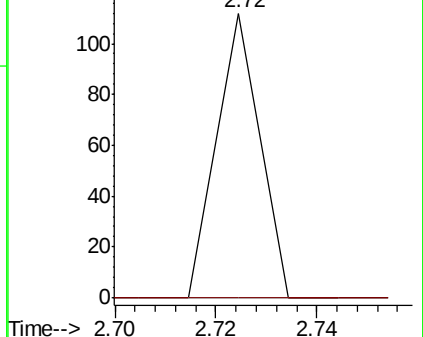
59 100

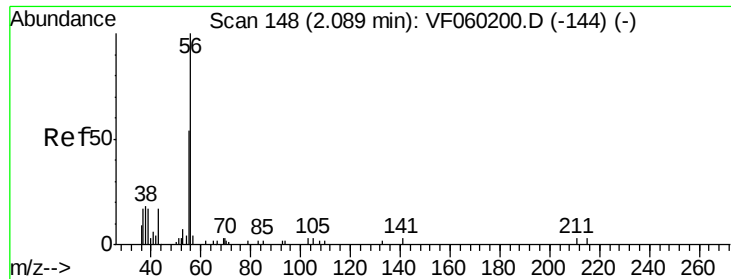
57 0.0 7.2 10.8#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

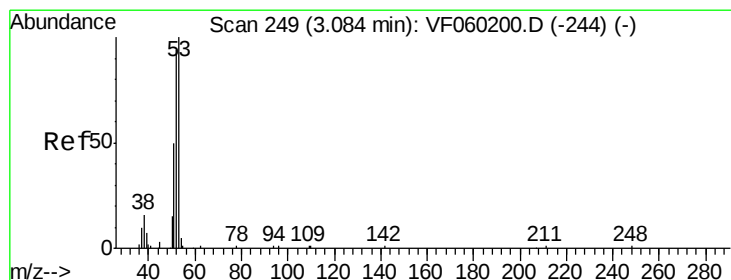
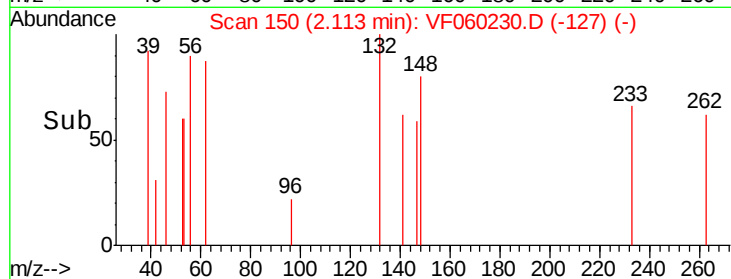
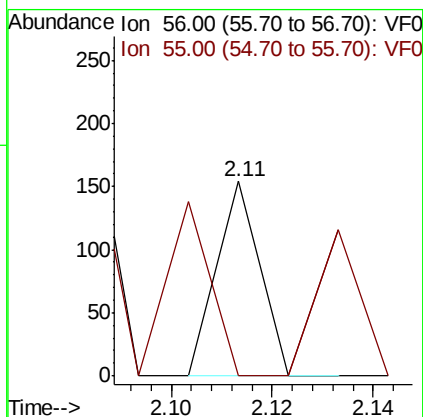
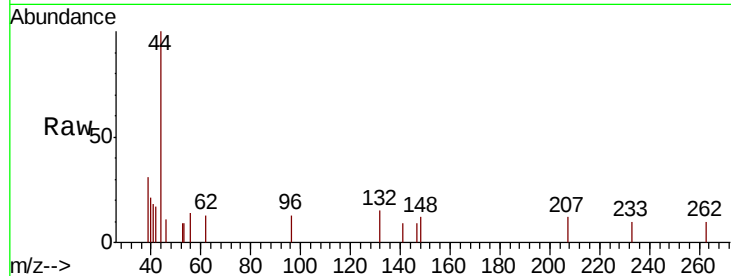




#13
 Acrolein
 Concen: Below Cal
 RT: 2.11 min Scan# 150
 Delta R.T. 0.03 min
 Lab File: VF060230.D
 Acq: 10 Sep 2018 13:08

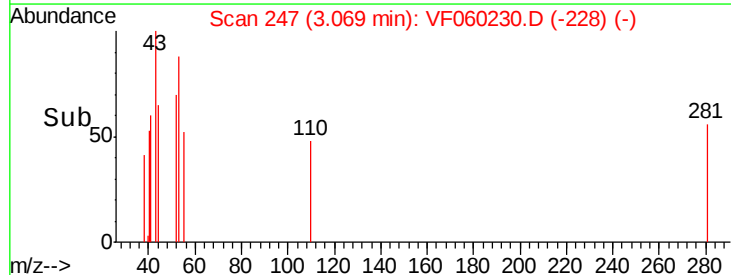
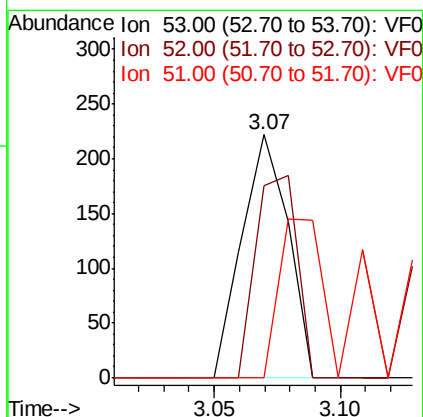
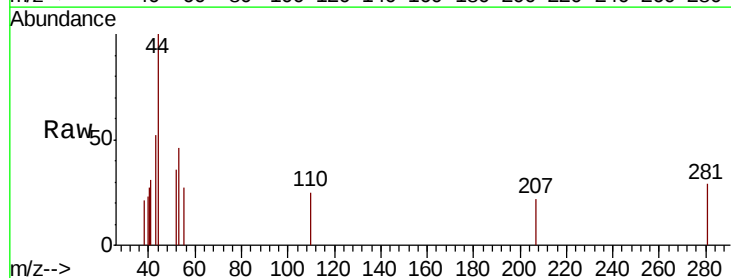
Instrument :
 MSVOA_F
 ClientSampled :
 EP1-Q2-E5

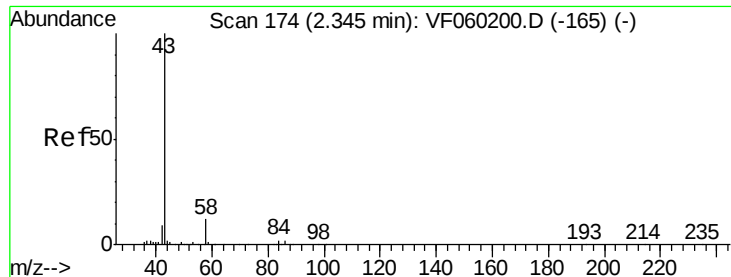
Tot Ion: 56 Resp: 91
 Ion Ratio Lower Upper
 56 100
 55 0.0 45.1 67.7#



#15
 Acrylonitrile
 Concen: 1.08 ug/l
 RT: 3.07 min Scan# 247
 Delta R.T. -0.02 min
 Lab File: VF060230.D
 Acq: 10 Sep 2018 13:08

Tgt Ion: 53 Resp: 284
 Ion Ratio Lower Upper
 53 100
 52 79.3 75.0 112.6
 51 0.0 39.9 59.9#





#16

Acetone

Concen: 21.59 ug/l

RT: 2.33 min Scan# 172

Delta R.T. -0.01 min

Lab File: VF060230.D

Acq: 10 Sep 2018 13:08

Instrument :

MSVOA_F

ClientSampleId :

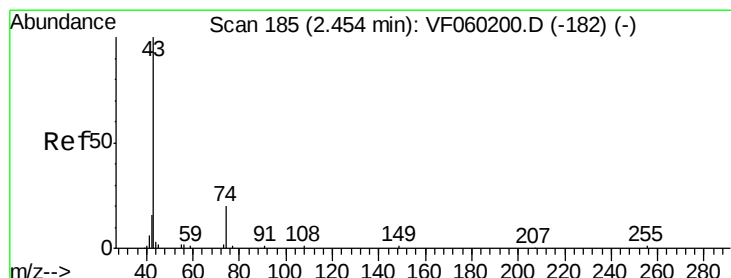
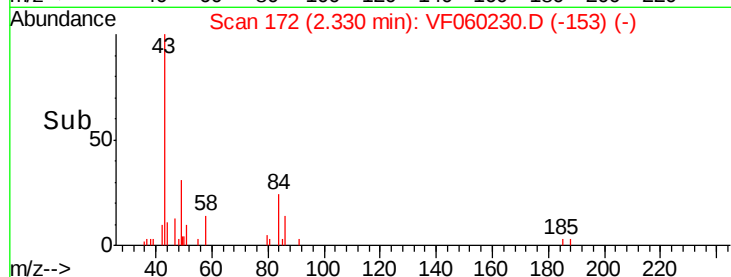
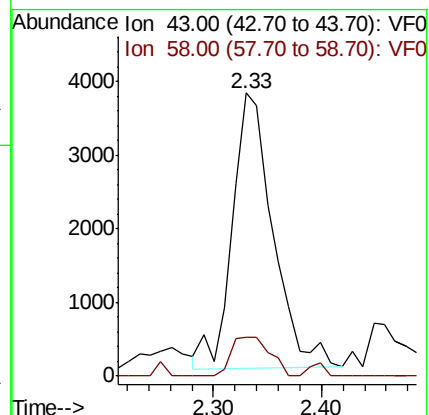
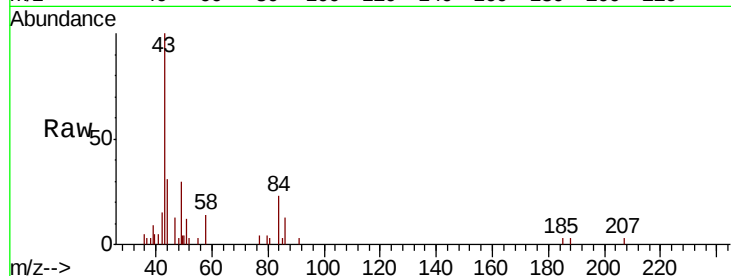
EP1-Q2-E5

Tot Ion: 43 Resp: 9740

Ion Ratio Lower Upper

43 100

58 13.6 9.7 14.5



#18

Methyl Acetate

Concen: 1.09 ug/l

RT: 2.45 min Scan# 184

Delta R.T. -0.01 min

Lab File: VF060230.D

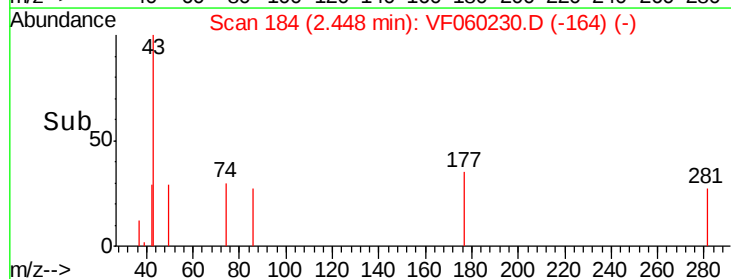
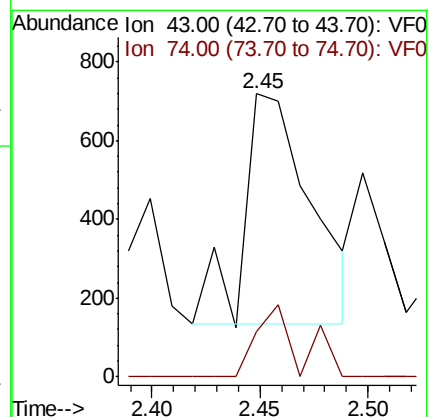
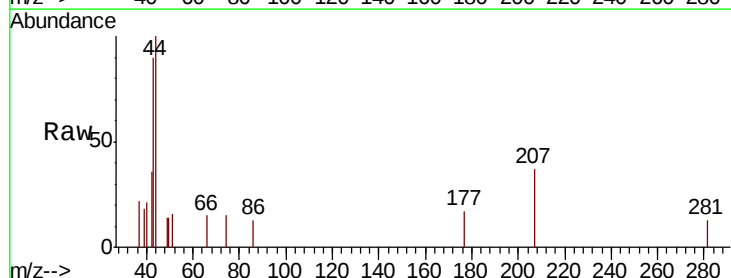
Acq: 10 Sep 2018 13:08

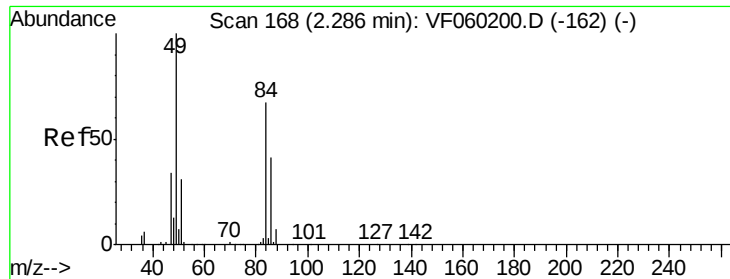
Tgt Ion: 43 Resp: 1267

Ion Ratio Lower Upper

43 100

74 16.1 11.9 17.9





#20

Methylene Chloride

Concen: Below Cal

RT: 2.28 min Scan# 167

Delta R.T. -0.01 min

Lab File: VF060230.D

Acq: 10 Sep 2018 13:08

Instrument :

MSVOA_F

ClientSampleId :

EP1-Q2-E5

Tot Ion: 84 Resp: 9660

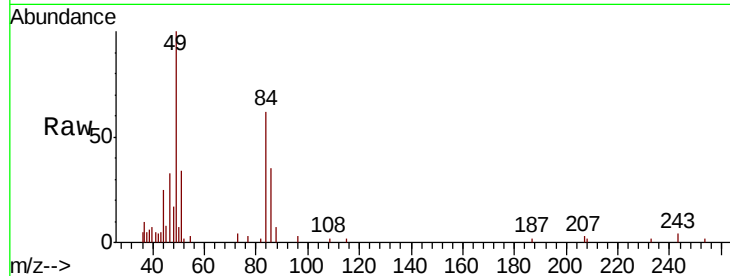
Ion Ratio Lower Upper

84 100

49 162.5 120.1 180.1

51 55.1 37.0 55.6

86 57.1 49.0 73.6

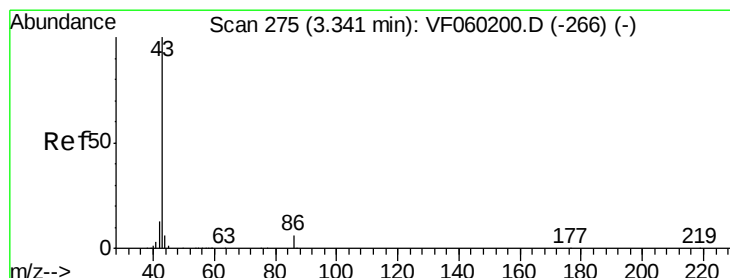
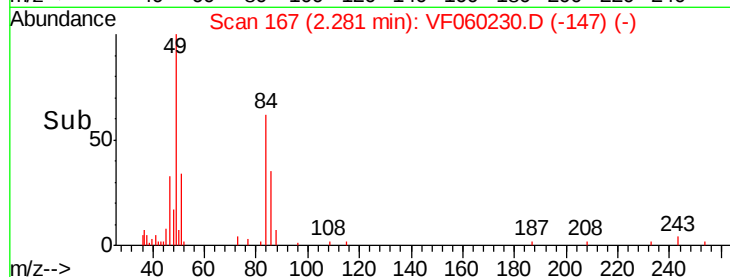
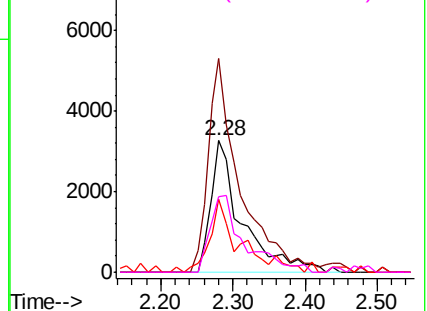


Abundance Ion 84.00 (83.70 to 84.70): VF0

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



#23

Vinyl Acetate

Concen: 22.93 ug/l

RT: 3.34 min Scan# 274

Delta R.T. -0.00 min

Lab File: VF060230.D

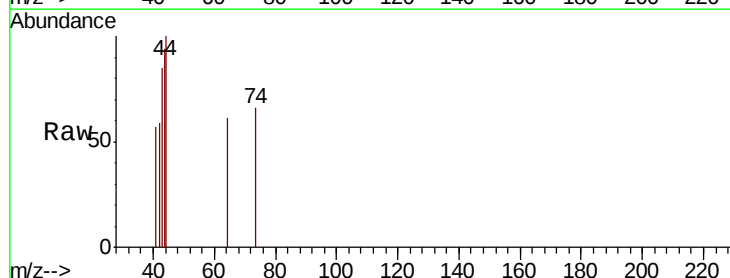
Acq: 10 Sep 2018 13:08

Tgt Ion: 43 Resp: 326

Ion Ratio Lower Upper

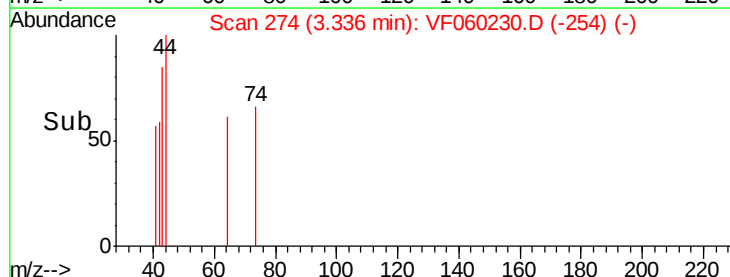
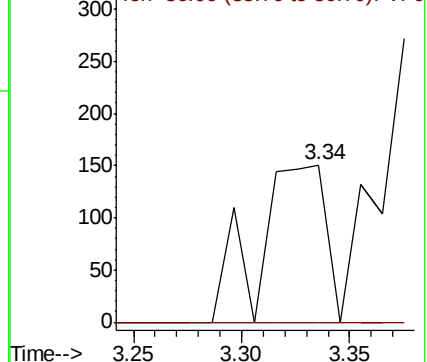
43 100

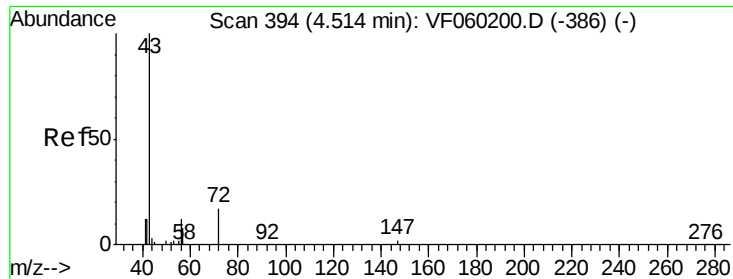
86 0.0 4.8 7.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

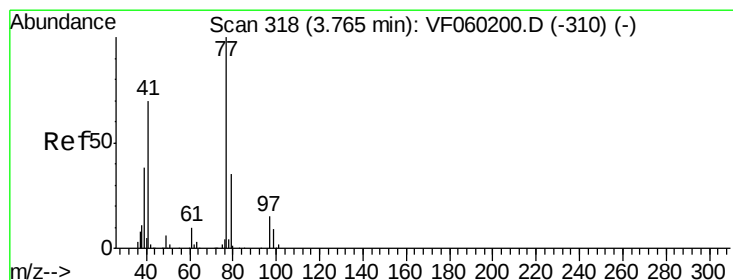
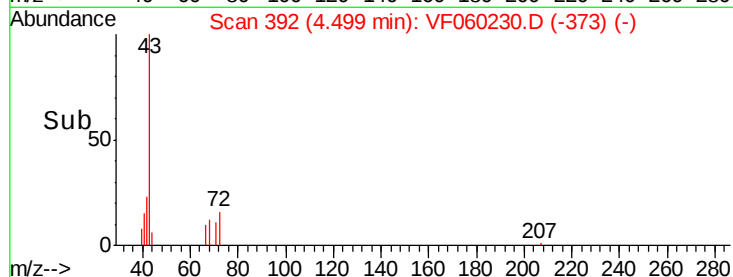
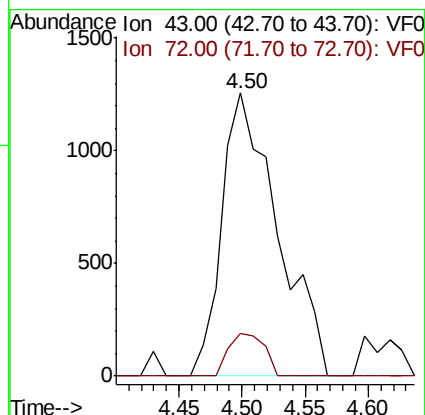
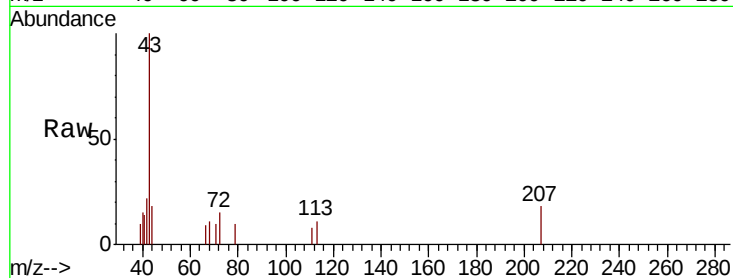




#25
2-Butanone
Concen: 3.99 ug/l
RT: 4.50 min Scan# 392
Delta R.T. -0.02 min
Lab File: VF060230.D
Acq: 10 Sep 2018 13:08

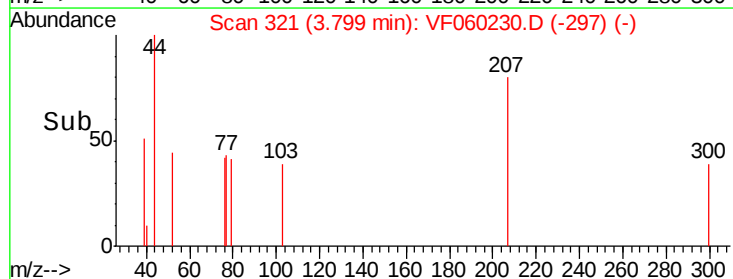
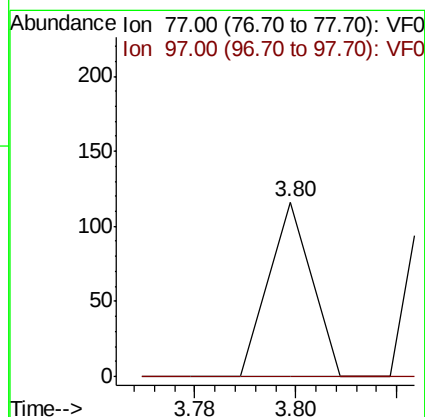
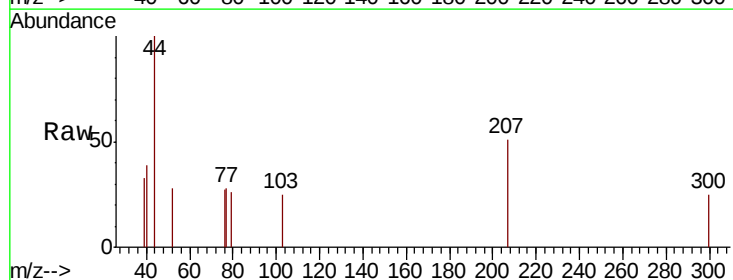
Instrument :
MSVOA_F
ClientSampleId :
EP1-Q2-E5

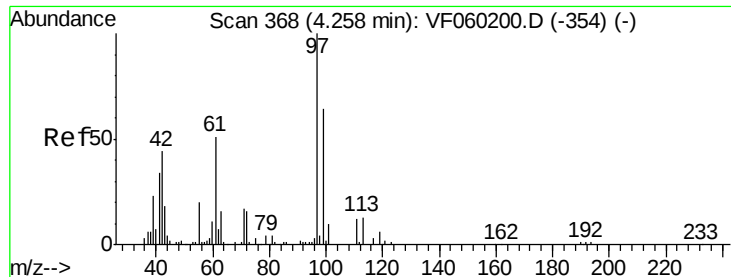
Tot Ion: 43 Resp: 3864
Ion Ratio Lower Upper
43 100
72 15.0 14.8 22.2



#26
2,2-Dichloropropane
Concen: 2.05 ug/l
RT: 3.80 min Scan# 321
Delta R.T. 0.03 min
Lab File: VF060230.D
Acq: 10 Sep 2018 13:08

Tgt Ion: 77 Resp: 69
Ion Ratio Lower Upper
77 100
97 0.0 7.5 22.5#





#29

Tetrahydrofuran

Concen: 2.47 ug/l

RT: 4.26 min Scan# 368

Delta R.T. 0.00 min

Lab File: VF060230.D

Acq: 10 Sep 2018 13:08

Instrument :

MSVOA_F

ClientSampleId :

EP1-Q2-E5

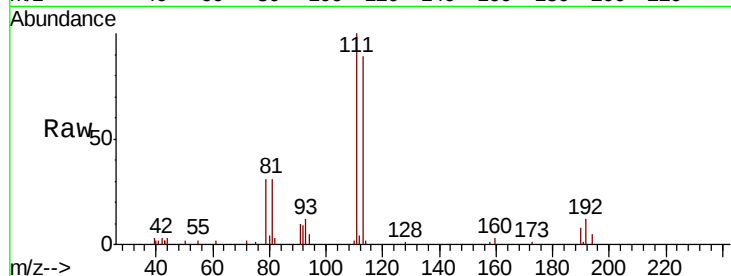
Tot Ion: 42 Resp: 791

Ion Ratio Lower Upper

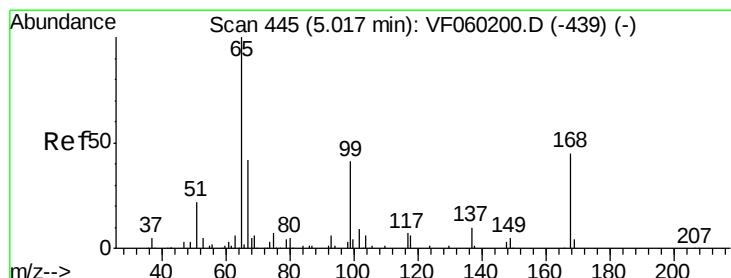
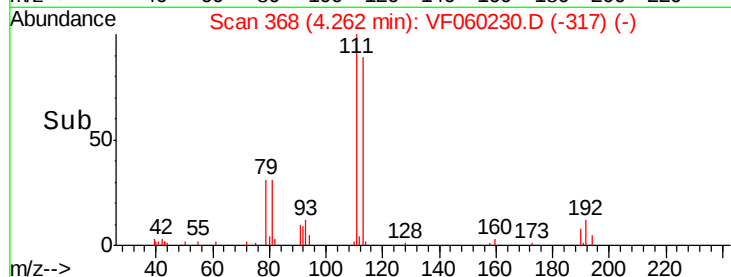
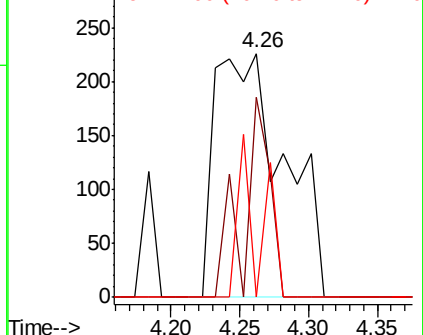
42 100

72 31.0 27.4 41.0

71 20.6 28.5 42.7#



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: 32.19 ug/l

RT: 5.02 min Scan# 445

Delta R.T. 0.00 min

Lab File: VF060230.D

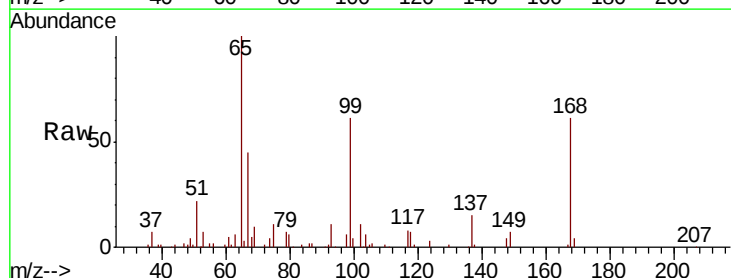
Acq: 10 Sep 2018 13:08

Tgt Ion: 65 Resp: 111024

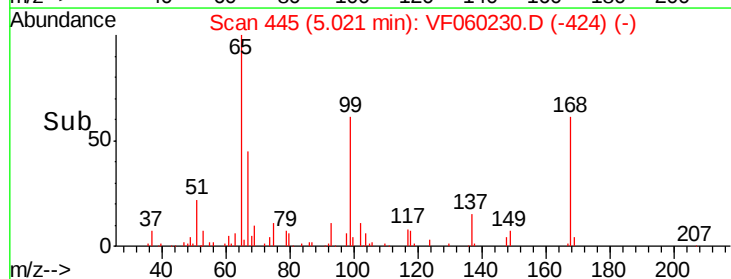
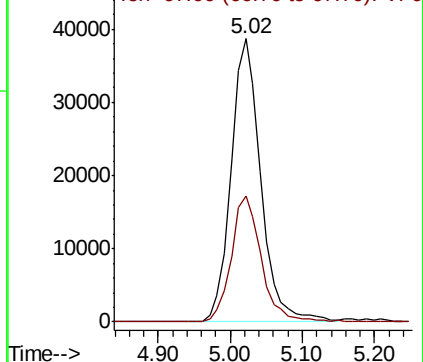
Ion Ratio Lower Upper

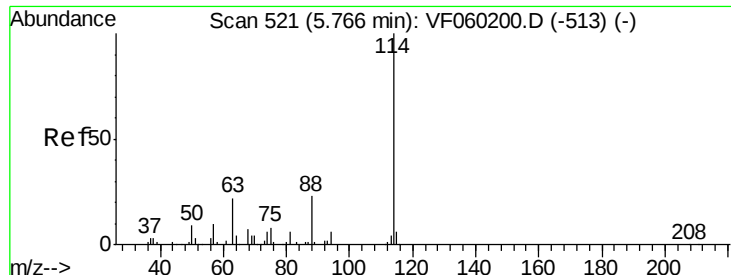
65 100

67 44.6 0.0 87.2



Abundance Ion 65.00 (64.70 to 65.70): VF0
Ion 67.00 (66.70 to 67.70): VF0

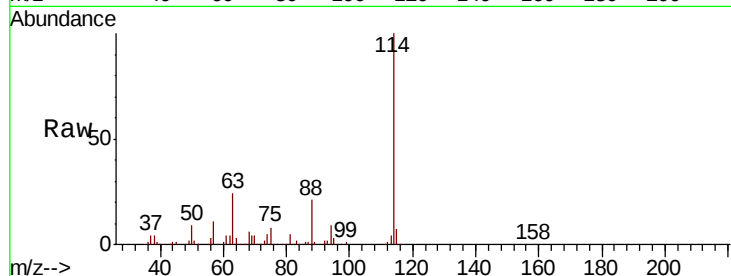




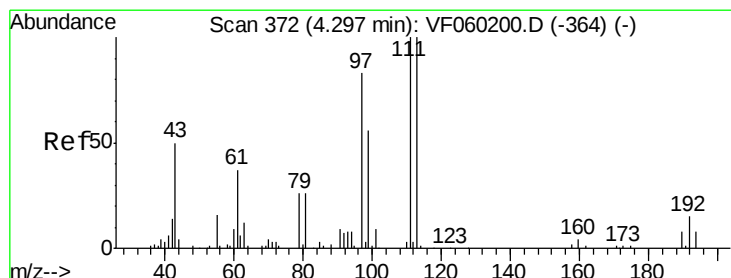
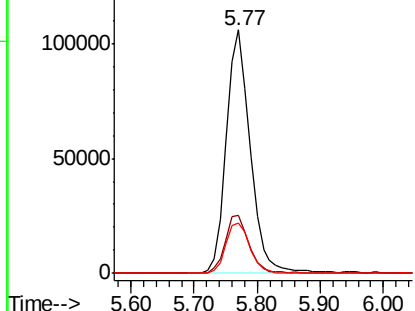
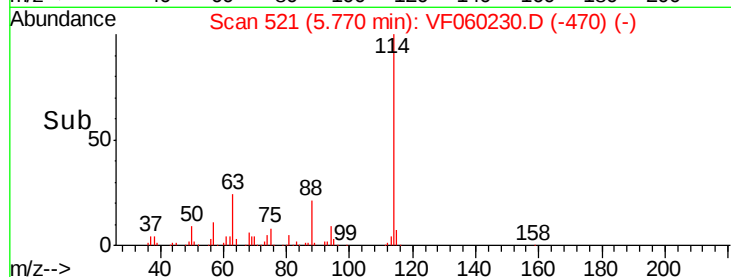
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.77 min Scan# 521
 Delta R.T. 0.00 min
 Lab File: VF060230.D
 Acq: 10 Sep 2018 13:08

Instrument :
 MSVOA_F
 ClientSampled :
 EP1-Q2-E5

Tot Ion	Ratio	Lower	Upper
114	100		
63	23.8	0.0	45.6
88	20.8	0.0	46.4

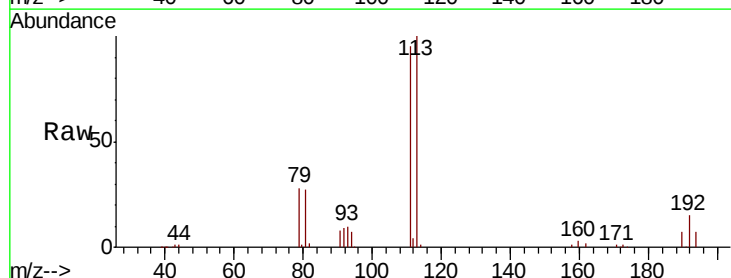


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VF0
 Ion 88.00 (87.70 to 88.70): VF0

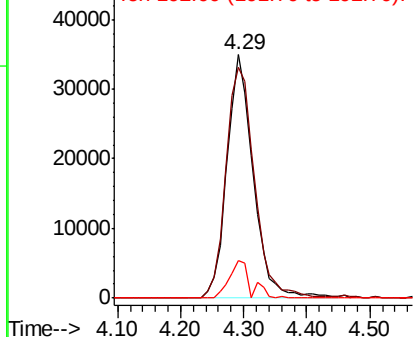
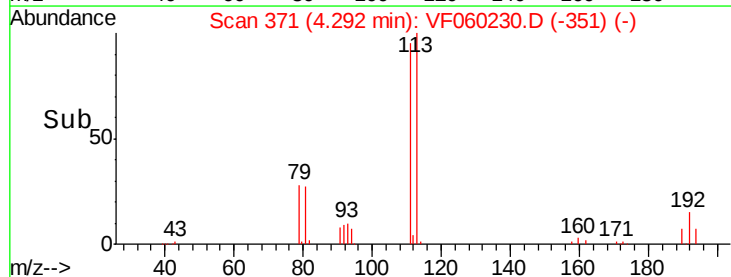


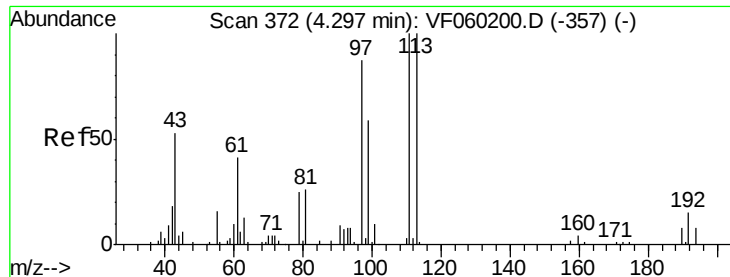
#35
 Dibromofluoromethane
 Concen: 37.02 ug/l
 RT: 4.29 min Scan# 371
 Delta R.T. -0.01 min
 Lab File: VF060230.D
 Acq: 10 Sep 2018 13:08

Tgt Ion	Ratio	Lower	Upper
113	100		
111	95.0	80.2	120.2
192	15.2	11.8	17.8



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





#37

Ethyl Acetate

Concen: Below Cal

RT: 4.26 min Scan# 368

Delta R.T. -0.03 min

Lab File: VF060230.D

Acq: 10 Sep 2018 13:08

Instrument :

MSVOA_F

ClientSampleId :

EP1-Q2-E5

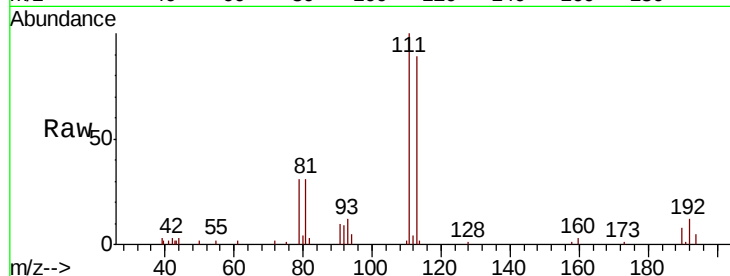
Tot Ion: 43 Resp: 886

Ion Ratio Lower Upper

43 100

61 60.5 61.6 92.4#

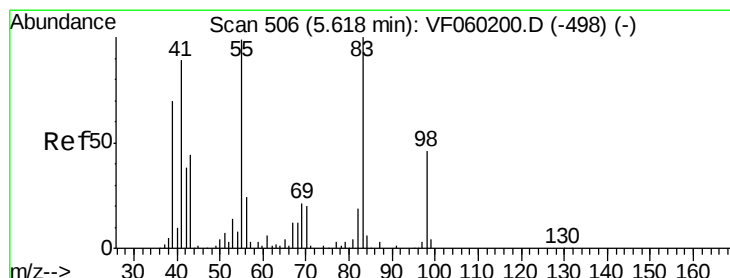
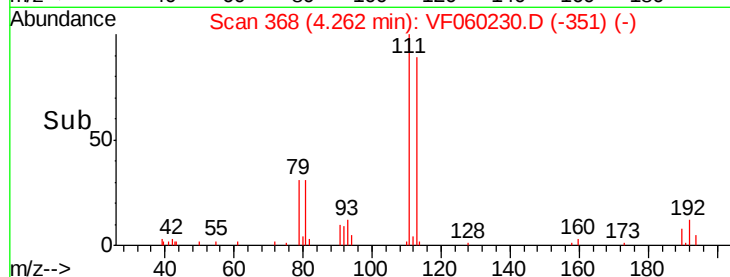
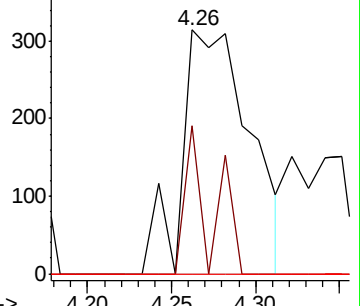
70 0.0 6.9 10.3#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0



#39

Methylcyclohexane

Concen: 1.40 ug/l

RT: 5.77 min Scan# 521

Delta R.T. 0.15 min

Lab File: VF060230.D

Acq: 10 Sep 2018 13:08

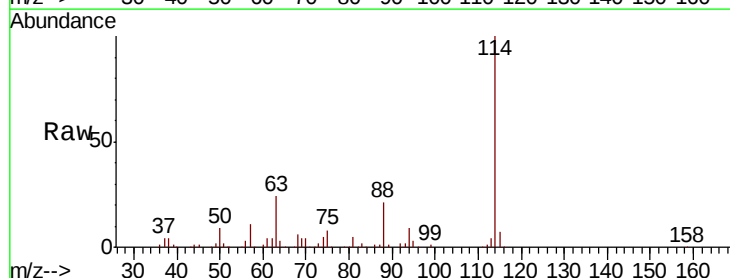
Tgt Ion: 83 Resp: 3839

Ion Ratio Lower Upper

83 100

55 23.5 79.0 118.4#

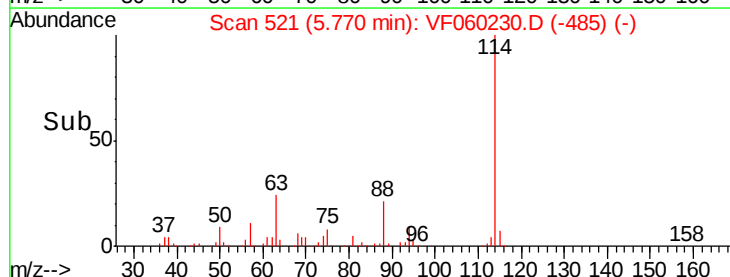
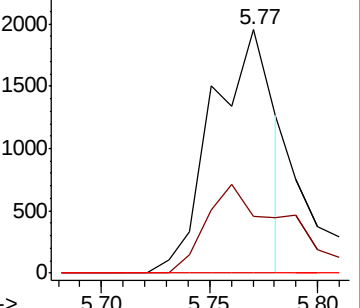
98 0.0 36.7 55.1#

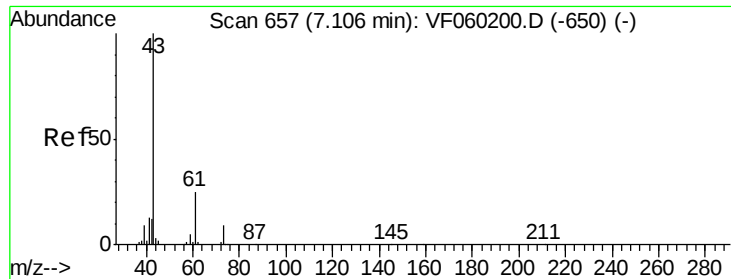


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

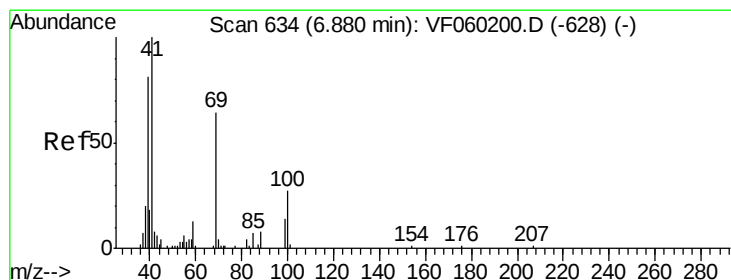
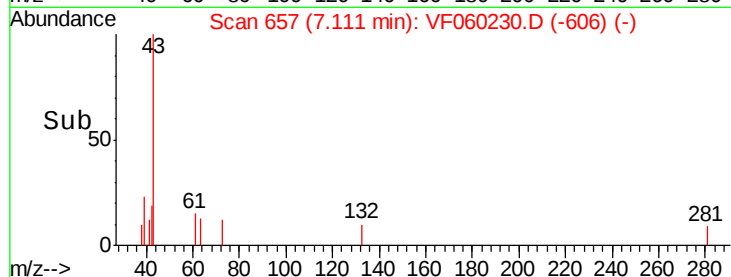
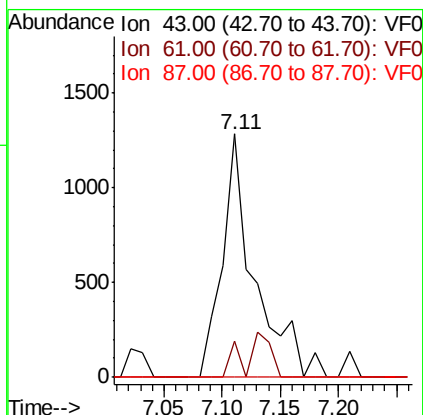
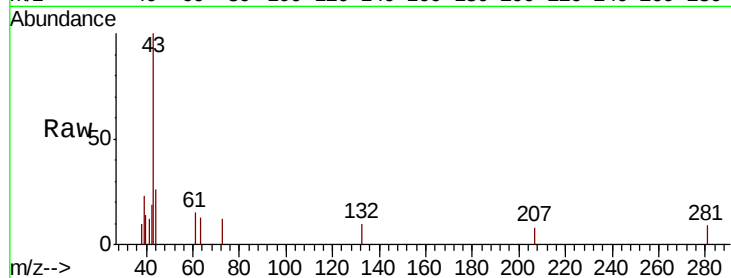




#43
Isopropyl Acetate
Concen: 1.30 ug/l
RT: 7.11 min Scan# 657
Delta R.T. 0.00 min
Lab File: VF060230.D
Acq: 10 Sep 2018 13:08

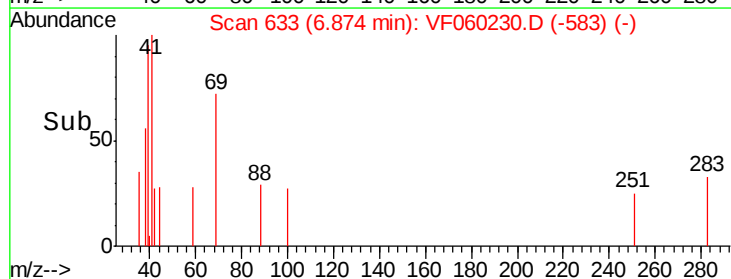
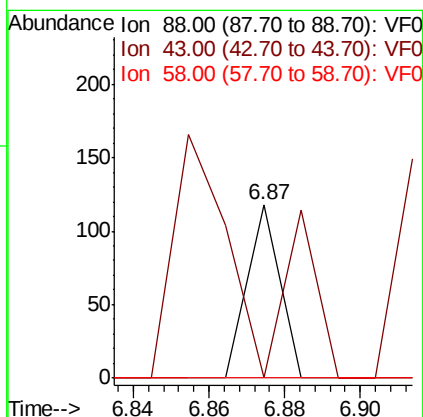
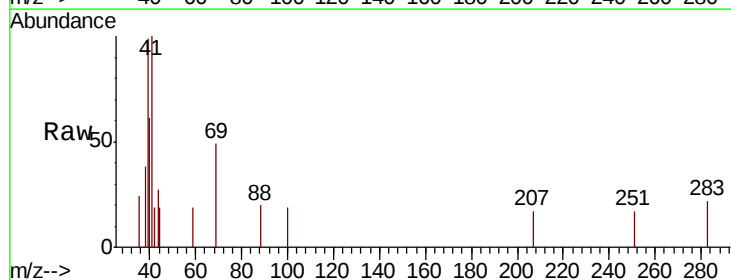
Instrument :
MSVOA_F
ClientSampleId :
EP1-Q2-E5

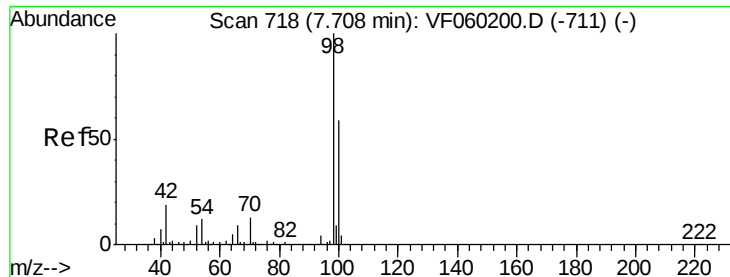
Tot Ion	Ratio	Lower	Upper
43	100		
61	14.9	19.9	29.9#
87	0.0	0.4	0.6#



#49
1,4-Dioxane
Concen: 3.15 ug/l
RT: 6.87 min Scan# 633
Delta R.T. -0.01 min
Lab File: VF060230.D
Acq: 10 Sep 2018 13:08

Tgt Ion	Ratio	Lower	Upper
88	100		
43	0.0	68.1	102.1#
58	0.0	38.1	57.1#





#50

Toluene-d8

Concen: 36.21 ug/l

RT: 7.71 min Scan# 718

Delta R.T. 0.00 min

Lab File: VF060230.D

Acq: 10 Sep 2018 13:08

Instrument :

MSVOA_F

ClientSampleId :

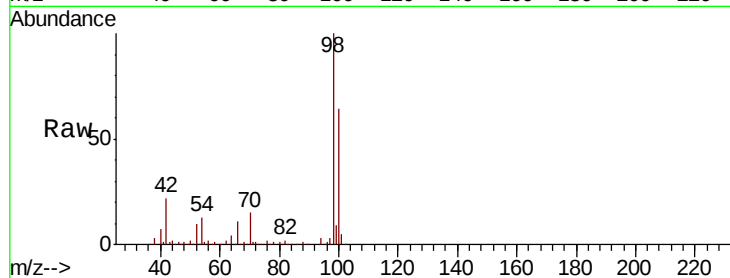
EP1-Q2-E5

Tot Ion: 98 Resp: 246512

Ion Ratio Lower Upper

98 100

100 64.0 47.4 71.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.71

120000

100000

80000

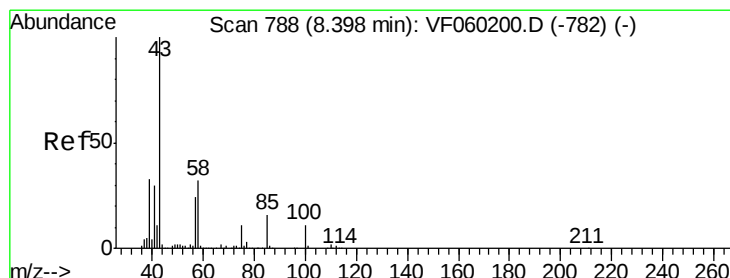
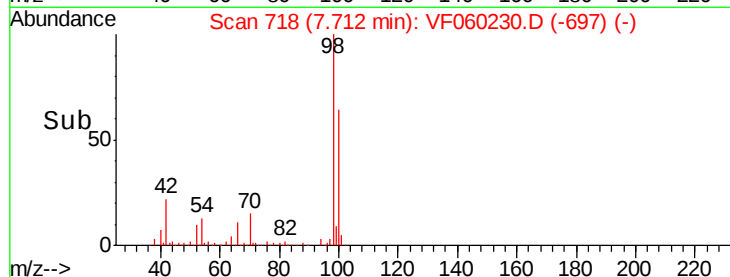
60000

40000

20000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 12.40 ug/l

RT: 8.40 min Scan# 788

Delta R.T. 0.00 min

Lab File: VF060230.D

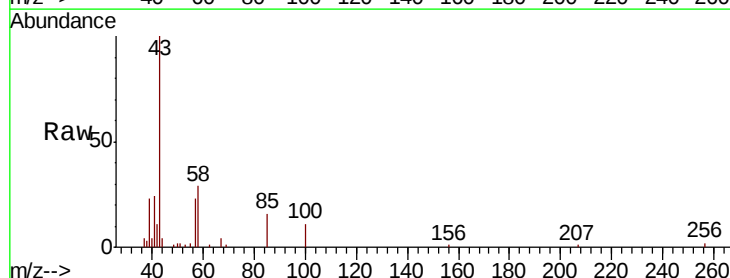
Acq: 10 Sep 2018 13:08

Tgt Ion: 43 Resp: 20994

Ion Ratio Lower Upper

43 100

58 28.9 25.8 38.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.40

10000

8000

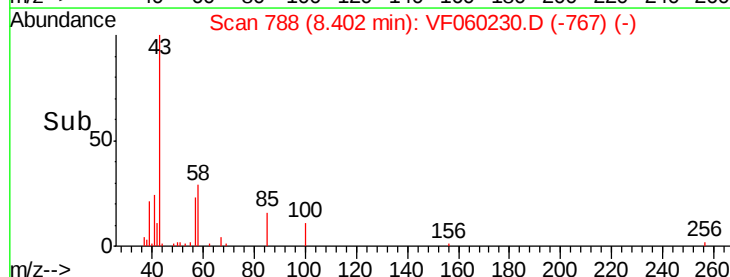
6000

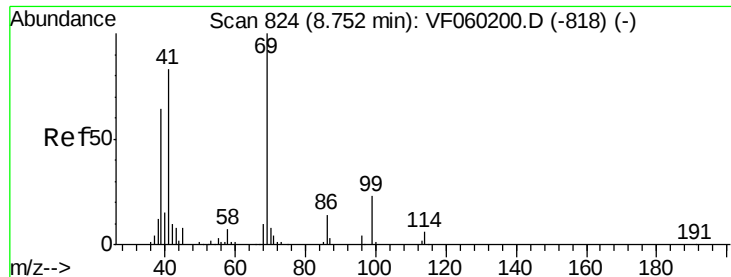
4000

2000

0

Time-->

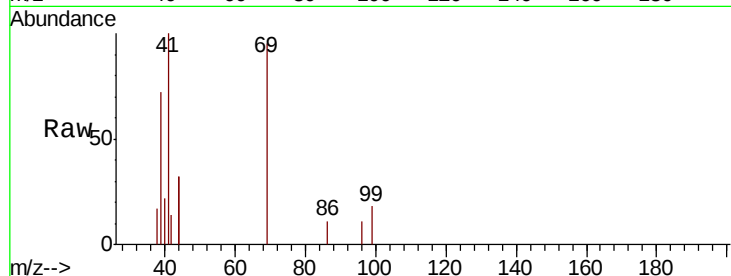




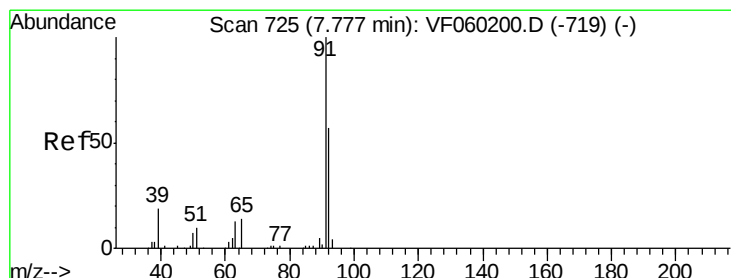
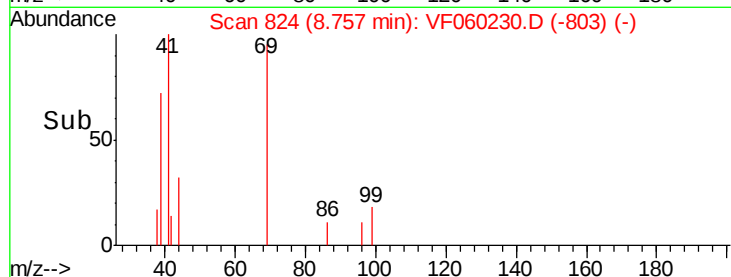
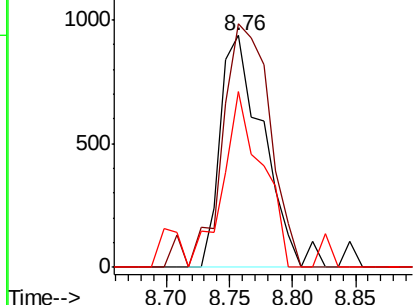
#56
Ethyl methacrylate
Concen: 1.17 ug/l
RT: 8.76 min Scan# 824
Delta R.T. 0.00 min
Lab File: VF060230.D
Acq: 10 Sep 2018 13:08

Instrument :
MSVOA_F
ClientSampleId :
EP1-Q2-E5

Tot Ion: 69 Resp: 2222
Ion Ratio Lower Upper
69 100
41 105.0 66.6 100.0#
39 75.7 51.5 77.3

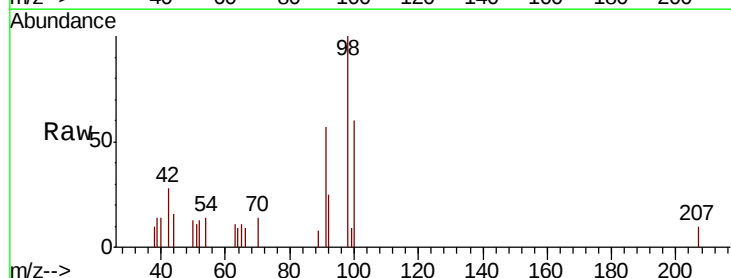


Abundance Ion 69.00 (68.70 to 69.70): VF0
Ion 41.00 (40.70 to 41.70): VF0
Ion 39.00 (38.70 to 39.70): VF0

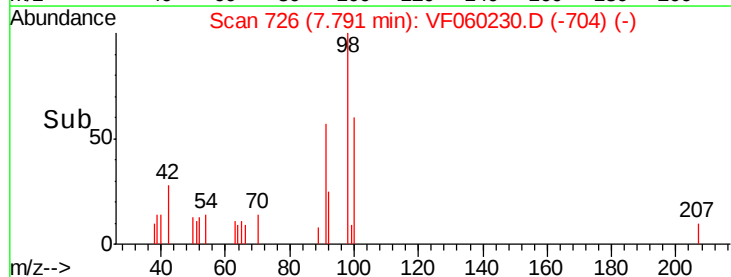
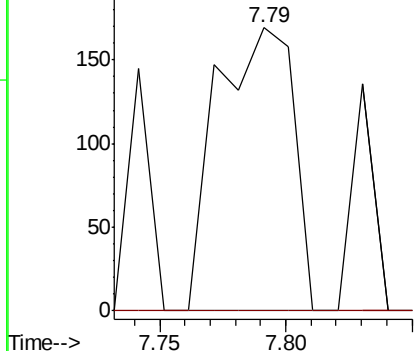


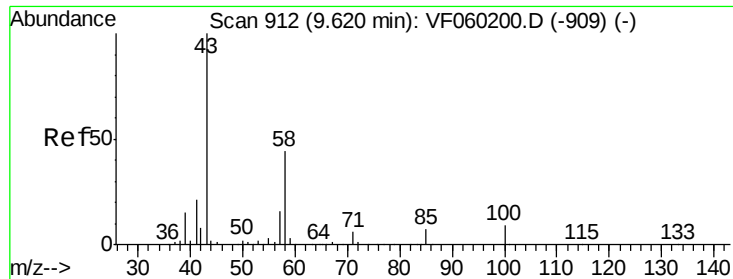
#58
2-Chloroethyl Vinyl ether
Concen: 1.75 ug/l
RT: 7.79 min Scan# 726
Delta R.T. 0.01 min
Lab File: VF060230.D
Acq: 10 Sep 2018 13:08

Tgt Ion: 63 Resp: 358
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

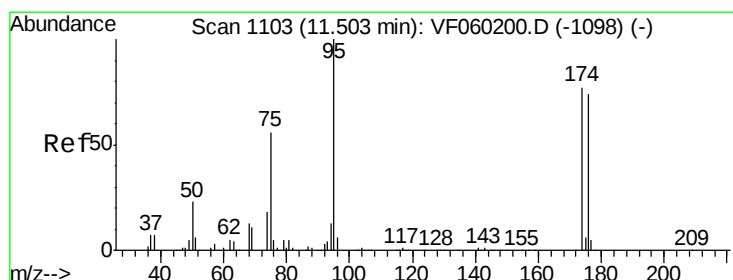
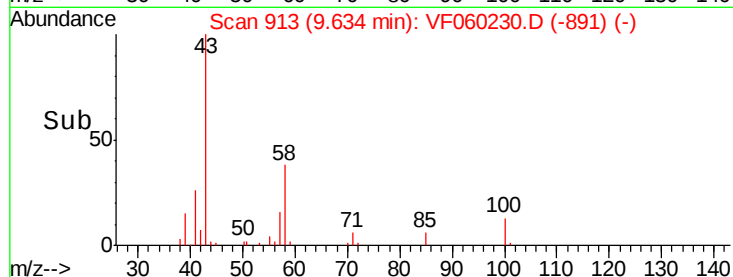
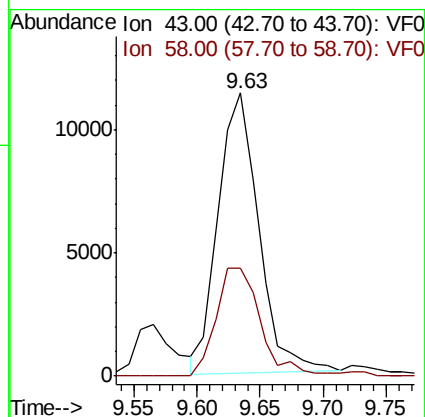
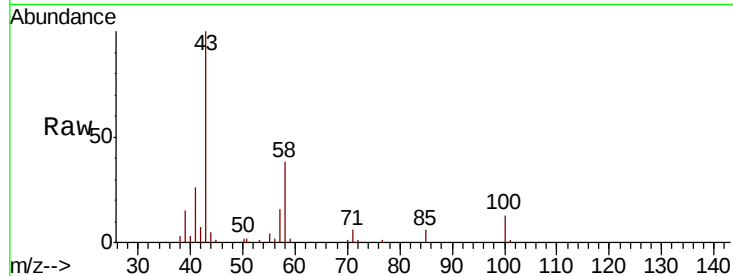




#59
2-Hexanone
Concen: 18.99 ug/l
RT: 9.63 min Scan# 913
Delta R.T. 0.02 min
Lab File: VF060230.D
Acq: 10 Sep 2018 13:08

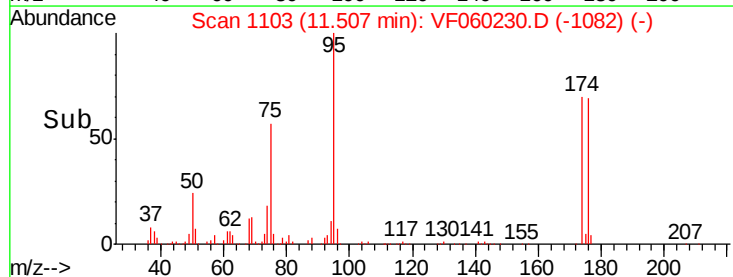
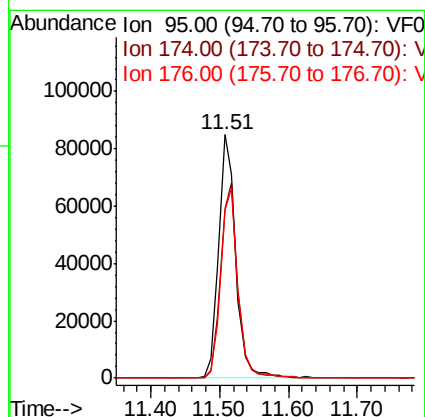
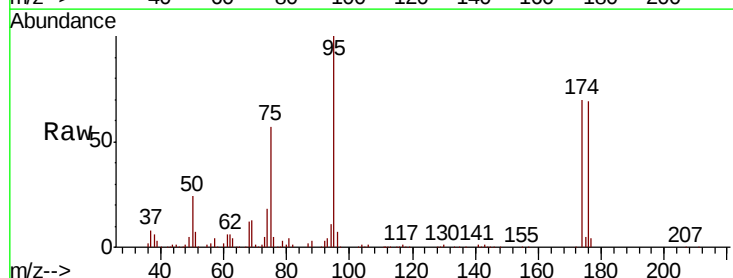
Instrument :
MSVOA_F
ClientSampleId :
EP1-Q2-E5

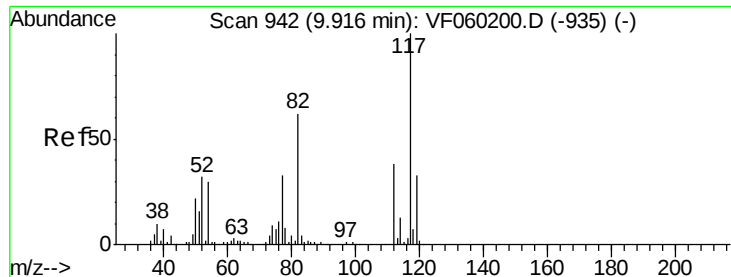
Tot Ion: 43 Resp: 25435
Ion Ratio Lower Upper
43 100
58 38.1 20.8 62.5



#62
4-Bromofluorobenzene
Concen: 37.87 ug/l
RT: 11.51 min Scan# 1103
Delta R.T. 0.00 min
Lab File: VF060230.D
Acq: 10 Sep 2018 13:08

Tgt Ion: 95 Resp: 145465
Ion Ratio Lower Upper
95 100
174 69.7 0.0 153.2
176 69.2 0.0 147.2

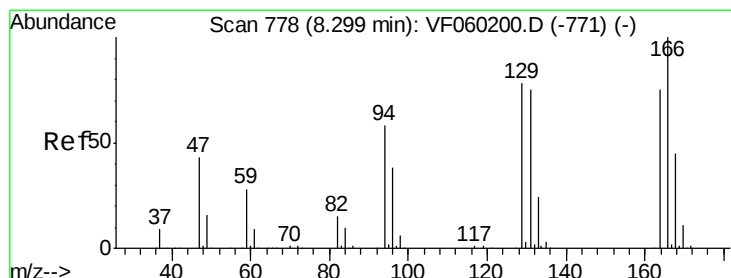
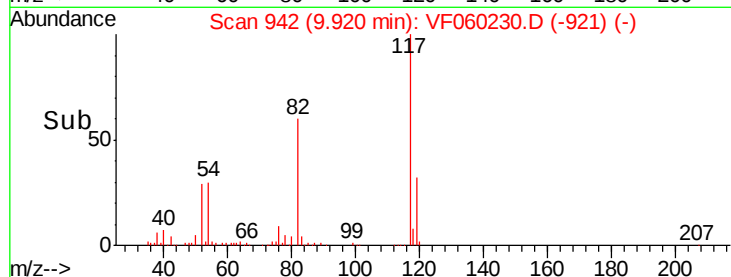
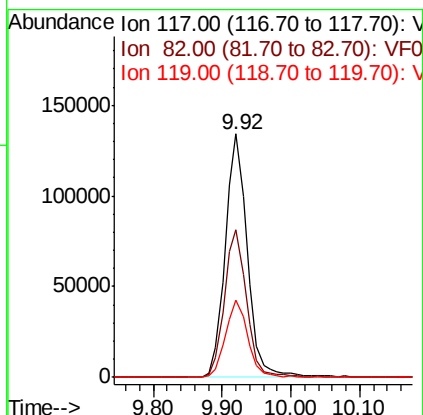
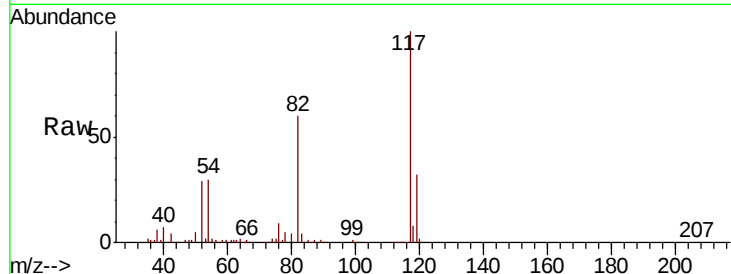




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.92 min Scan# 942
Delta R.T. 0.00 min
Lab File: VF060230.D
Acq: 10 Sep 2018 13:08

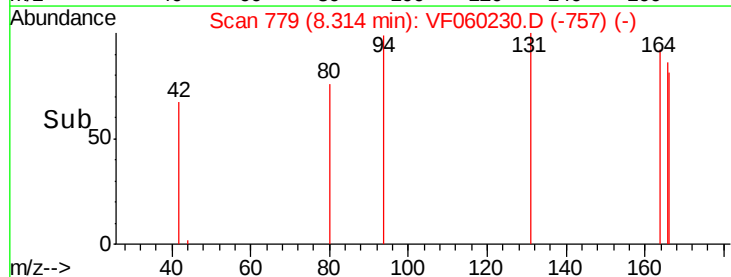
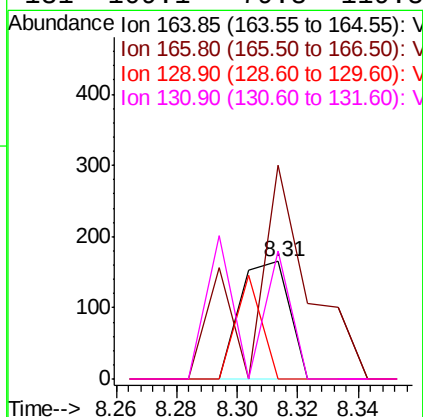
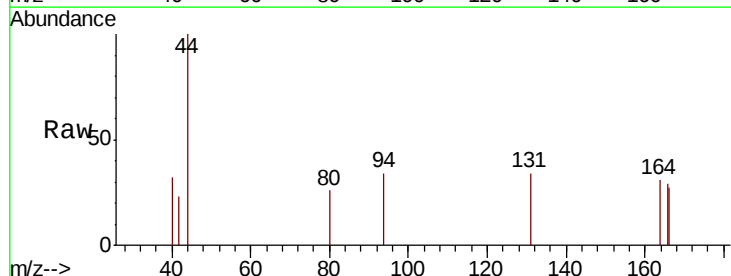
Instrument :
MSVOA_F
ClientSampleId :
EP1-Q2-E5

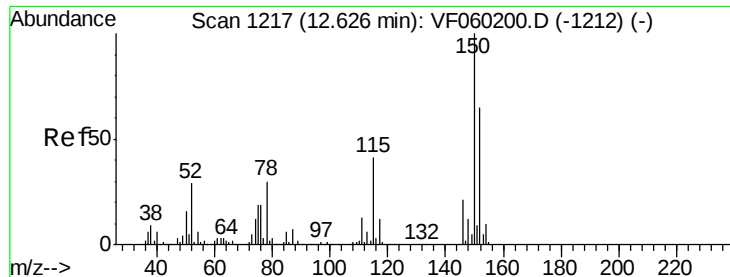
Tot Ion:117 Resp: 298070
Ion Ratio Lower Upper
117 100
82 60.5 49.3 73.9
119 31.6 26.5 39.7



#64
Tetrachloroethene
Concen: Below Cal
RT: 8.31 min Scan# 779
Delta R.T. 0.02 min
Lab File: VF060230.D
Acq: 10 Sep 2018 13:08

Tgt Ion:164 Resp: 188
Ion Ratio Lower Upper
164 100
166 181.8 107.0 160.4#
129 0.0 83.0 124.6#
131 109.1 79.8 119.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.63 min Scan# 1217

Delta R.T. 0.00 min

Lab File: VF060230.D

Acq: 10 Sep 2018 13:08

Instrument :

MSVOA_F

ClientSampleId :

EP1-Q2-E5

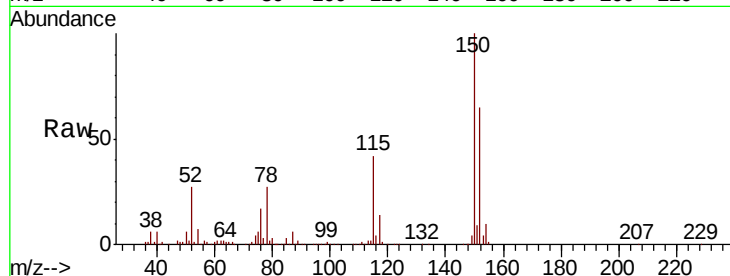
Tot Ion:152 Resp: 191968

Ion Ratio Lower Upper

152 100

115 65.0 31.5 94.5

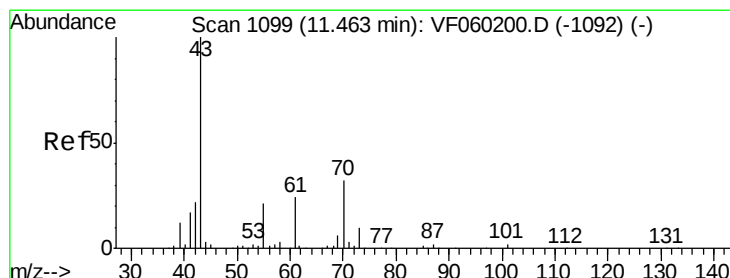
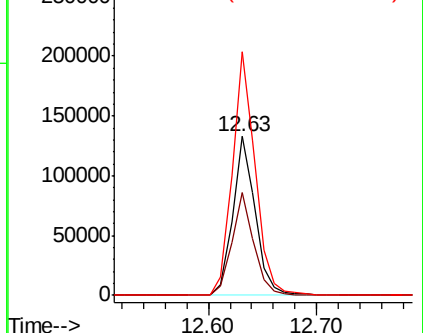
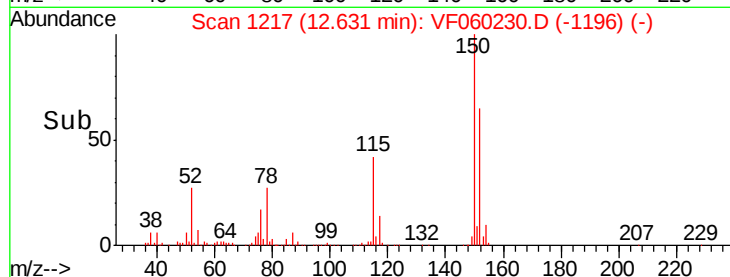
150 153.1 0.0 310.4



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



#74

N-ethyl acetate

Concen: 8.54 ug/l

RT: 11.47 min Scan# 1099

Delta R.T. 0.00 min

Lab File: VF060230.D

Acq: 10 Sep 2018 13:08

Tgt Ion: 43 Resp: 10910

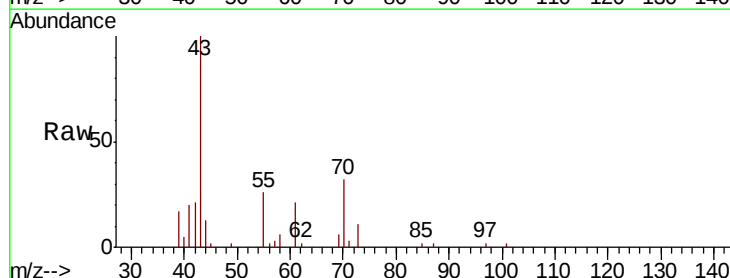
Ion Ratio Lower Upper

43 100

70 32.5 25.8 38.6

55 26.2 16.8 25.2#

61 20.9 18.9 28.3

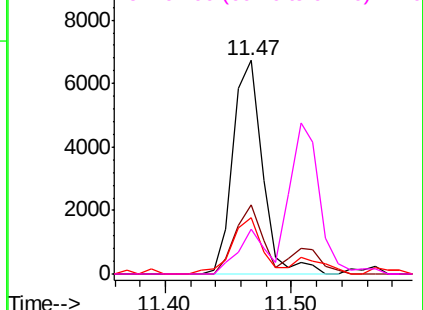
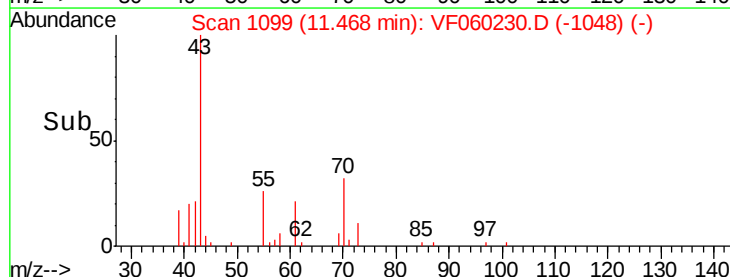


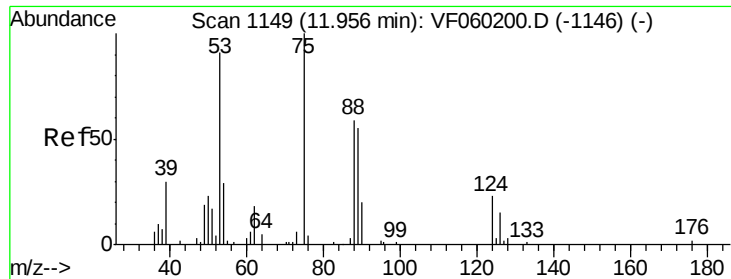
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

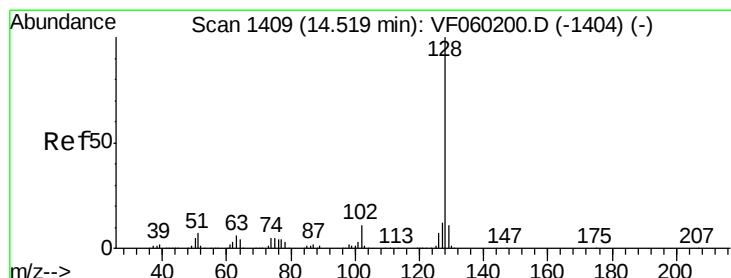
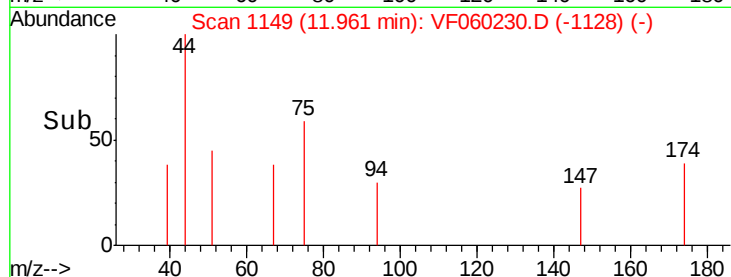
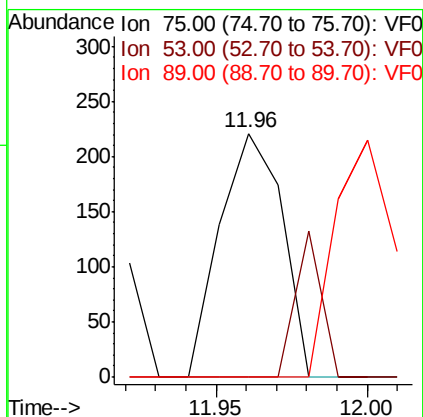
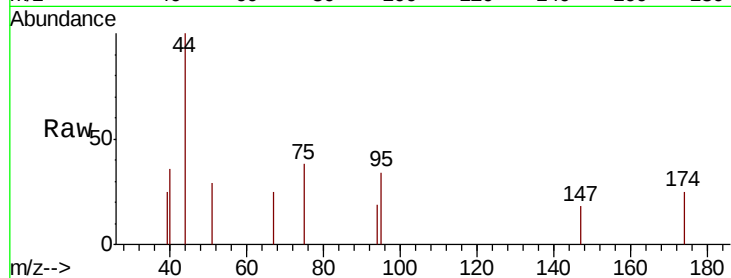




#81
trans-1,4-Dichloro-2-butene
Concen: 3.15 ug/l
RT: 11.96 min Scan# 1149
Delta R.T. 0.00 min
Lab File: VF060230.D
Acq: 10 Sep 2018 13:08

Instrument :
MSVOA_F
ClientSampleId :
EP1-Q2-E5

Tot Ion: 75 Resp: 315
Ion Ratio Lower Upper
75 100
53 0.0 76.5 114.7#
89 0.0 46.5 69.7#



#95
Naphthalene
Concen: 4.30 ug/l
RT: 14.52 min Scan# 1409
Delta R.T. 0.01 min
Lab File: VF060230.D
Acq: 10 Sep 2018 13:08

Tgt Ion: 128 Resp: 12920
Ion Ratio Lower Upper
128 100
127 13.5 9.9 14.9
129 12.6 8.9 13.3

