

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF091018\
 Data File : VF060237.D
 Acq On : 10 Sep 2018 16:20
 Operator : VA/AP
 Sample : J4803-13
 Misc : 5.09/5mL/MSVOA F/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 EP1-Q2-I5

Quant Time: Sep 11 07:16:42 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	182836	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.76	114	241071	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	248045	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.64	152	141302	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	111276	34.84	ug/l	0.00
Spiked Amount			Recovery	=	69.68%	
35) Dibromofluoromethane	4.30	113	95580	40.47	ug/l	0.00
Spiked Amount			Recovery	=	80.94%	
50) Toluene-d8	7.71	98	220147	37.35	ug/l	0.00
Spiked Amount			Recovery	=	74.70%	
62) 4-Bromofluorobenzene	11.51	95	122814	36.93	ug/l	0.00
Spiked Amount			Recovery	=	73.86%	

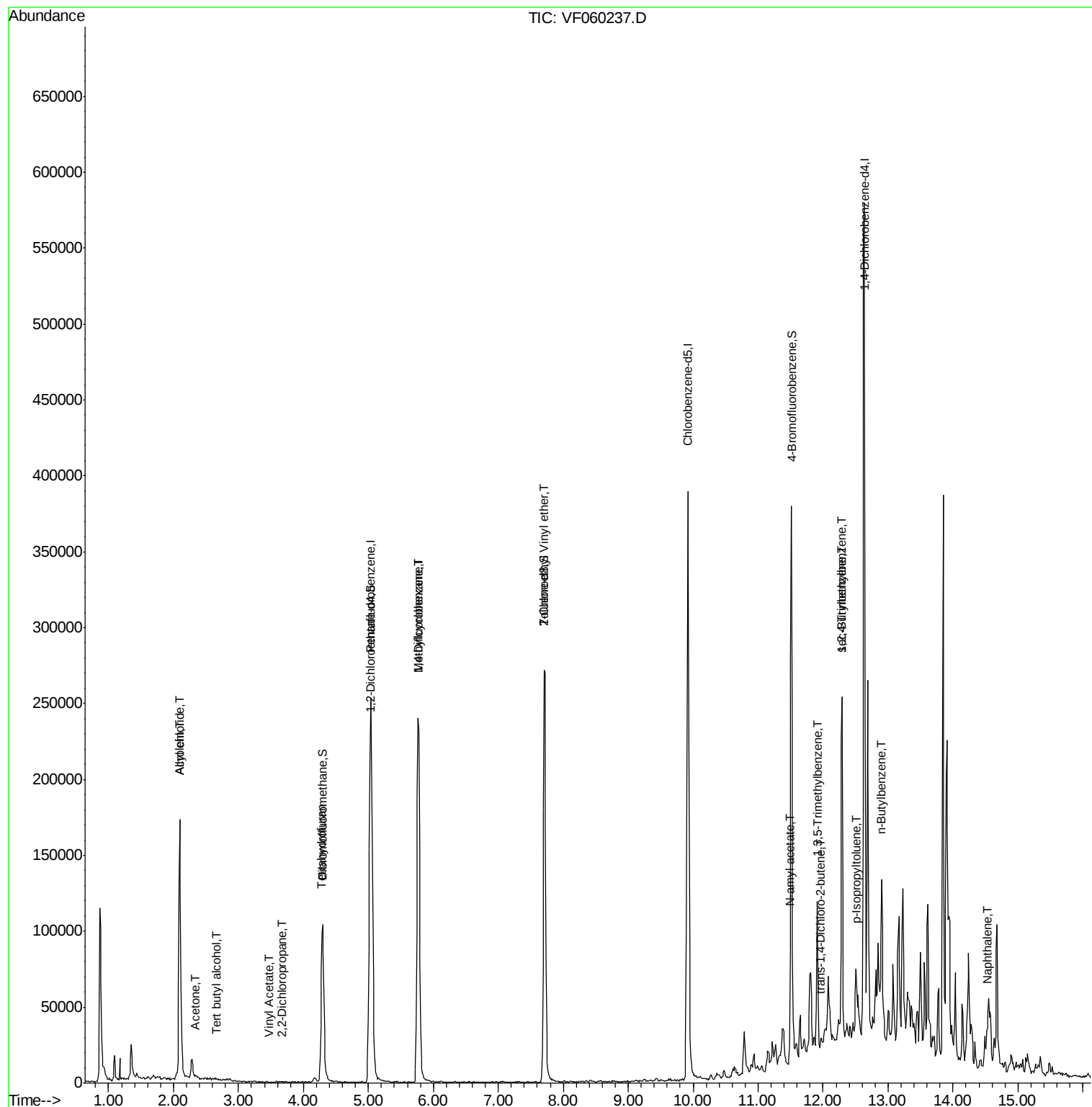
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.66	59	449	14.79	ug/l #	1
13) Acrolein	2.09	56	2435	20.03	ug/l #	1
14) Allyl chloride	2.10	41	57322	29.08	ug/l #	65
16) Acetone	2.33	43	2409	15.02	ug/l #	69
20) Methylene Chloride	2.29	84	6373	Below Cal	#	93
23) Vinyl Acetate	3.47	43	116	22.85	ug/l #	82
26) 2,2-Dichloropropane	3.68	77	127	2.06	ug/l #	64
29) Tetrahydrofuran	4.28	42	518	1.75	ug/l #	40
37) Ethyl Acetate	4.28	43	132	Below Cal	#	17
39) Methylcyclohexane	5.76	83	2591	1.09	ug/l #	37
58) 2-Chloroethyl Vinyl ether	7.71	63	339	1.91	ug/l	100
59) 2-Hexanone	9.63	43	837	Below Cal		91
74) N-amyl acetate	11.48	43	1251	5.38	ug/l #	16
80) 1,3,5-Trimethylbenzene	11.92	105	54155	6.29	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.98	75	179	3.01	ug/l #	43
84) 1,2,4-Trimethylbenzene	12.29	105	104618	11.97	ug/l	96
85) sec-Butylbenzene	12.29	105	104481	9.66	ug/l #	61
86) p-Isopropyltoluene	12.51	119	31604	3.29	ug/l	83
89) n-Butylbenzene	12.90	91	13374	1.44	ug/l #	1
95) Naphthalene	14.52	128	17313	5.68	ug/l #	93

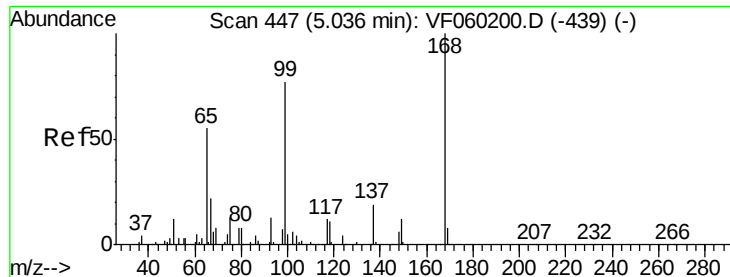
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VF060237.D

Acq: 10 Sep 2018 16:20

Instrument :

MSVOA_F

ClientSampleId :

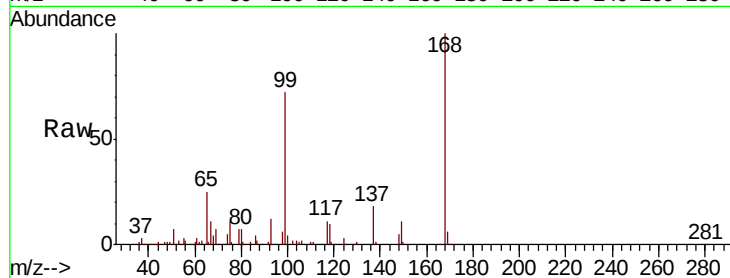
EP1-Q2-I5

Tot Ion:168 Resp: 182836

Ion Ratio Lower Upper

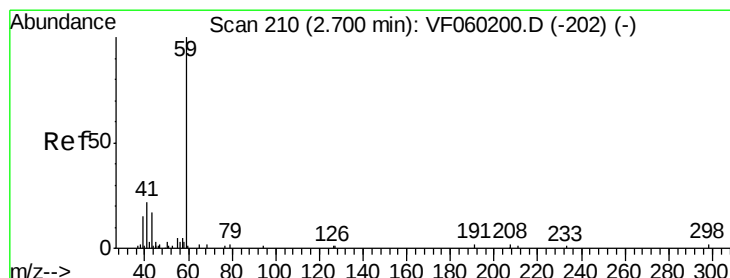
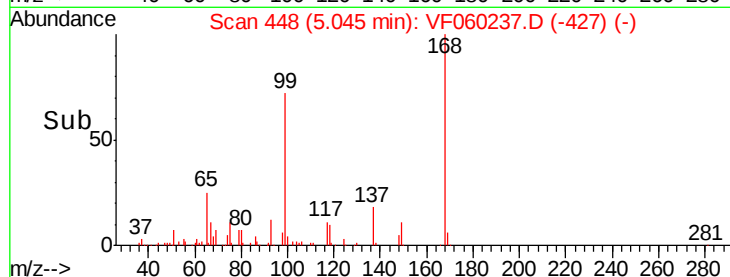
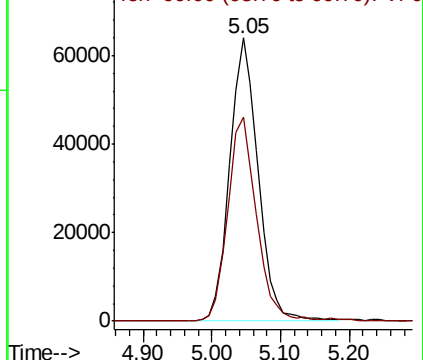
168 100

99 72.0 61.8 92.6



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0



#11

Tert butyl alcohol

Concen: 14.79 ug/l

RT: 2.66 min Scan# 206

Delta R.T. -0.04 min

Lab File: VF060237.D

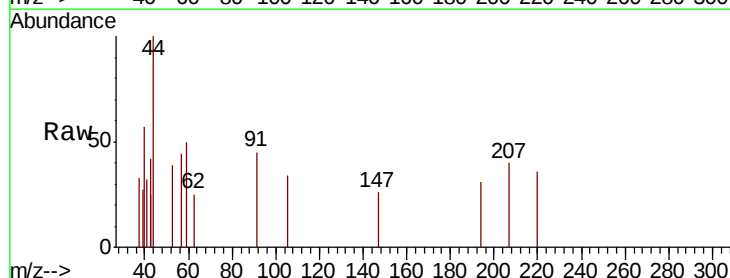
Acq: 10 Sep 2018 16:20

Tgt Ion: 59 Resp: 449

Ion Ratio Lower Upper

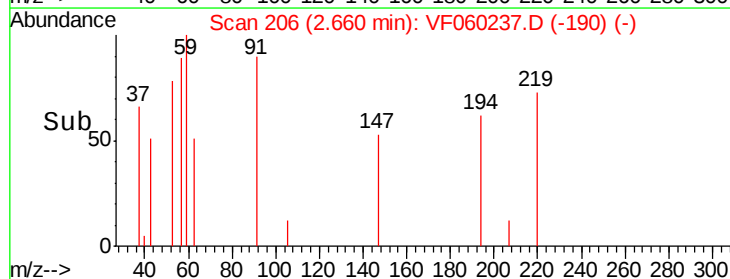
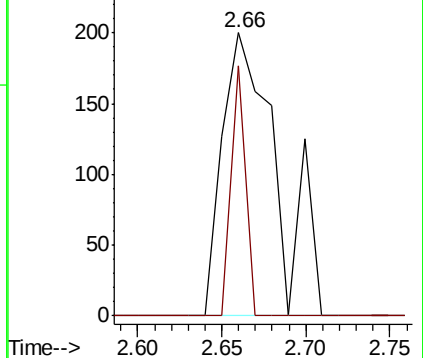
59 100

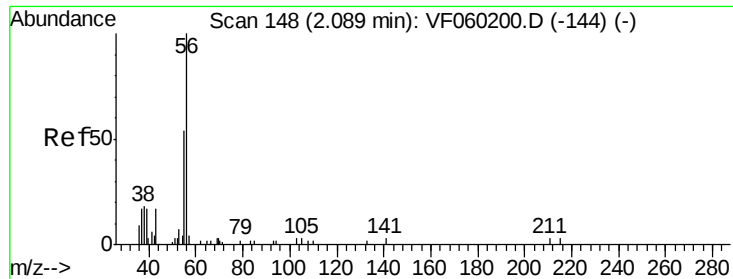
57 88.5 7.2 10.8#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0





#13

Acrolein

Concen: 20.03 ug/l

RT: 2.09 min Scan# 148

Delta R.T. 0.00 min

Lab File: VF060237.D

Acq: 10 Sep 2018 16:20

Instrument :

MSVOA_F

ClientSampleId :

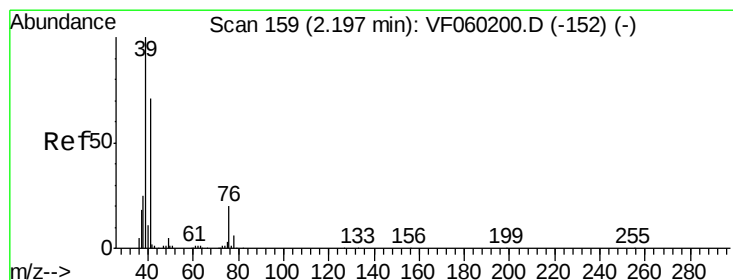
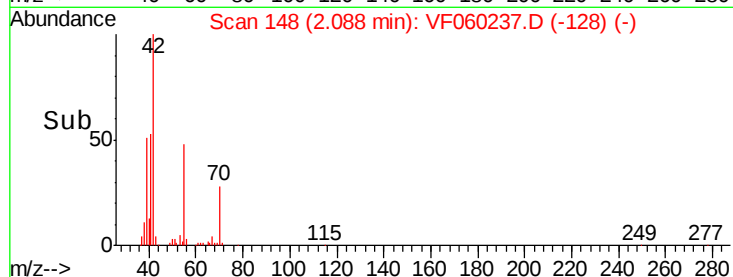
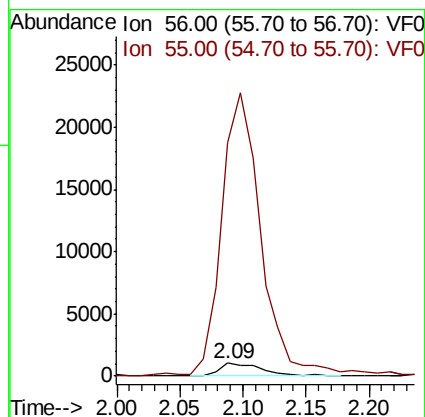
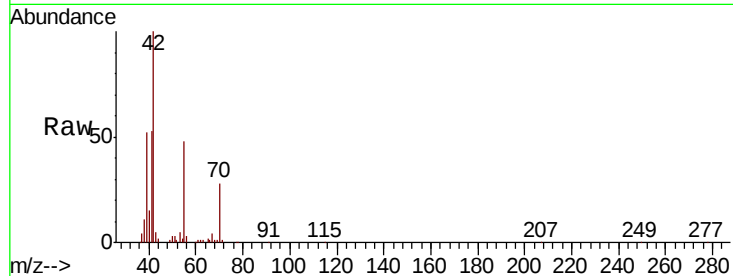
EP1-Q2-I5

Tot Ion: 56 Resp: 2435

Ion Ratio Lower Upper

56 100

55 1788.5 45.1 67.7#



#14

Allyl chloride

Concen: 29.08 ug/l

RT: 2.10 min Scan# 149

Delta R.T. -0.10 min

Lab File: VF060237.D

Acq: 10 Sep 2018 16:20

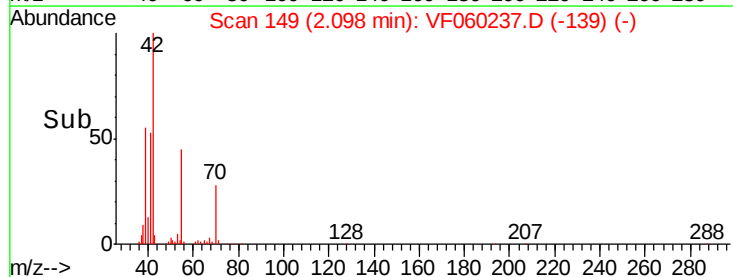
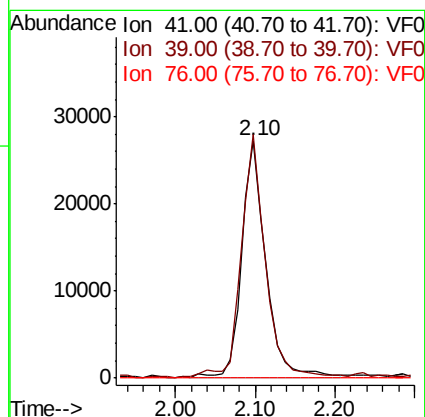
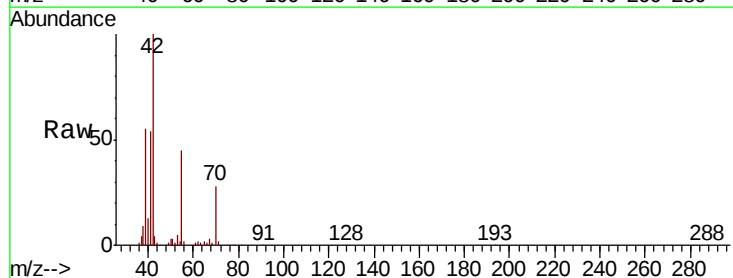
Tgt Ion: 41 Resp: 57322

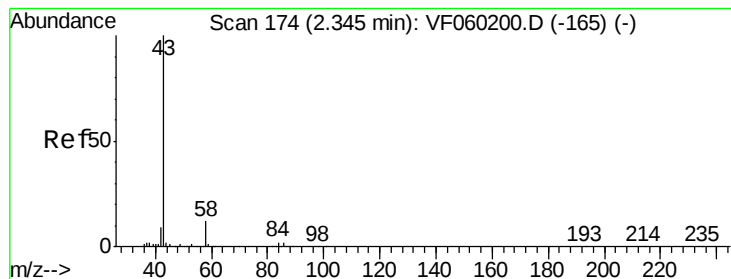
Ion Ratio Lower Upper

41 100

39 102.6 112.2 168.2#

76 0.0 23.2 34.8#





#16

Acetone

Concen: 15.02 ug/l

RT: 2.33 min Scan# 173

Delta R.T. -0.01 min

Lab File: VF060237.D

Acq: 10 Sep 2018 16:20

Instrument :

MSVOA_F

ClientSampleId :

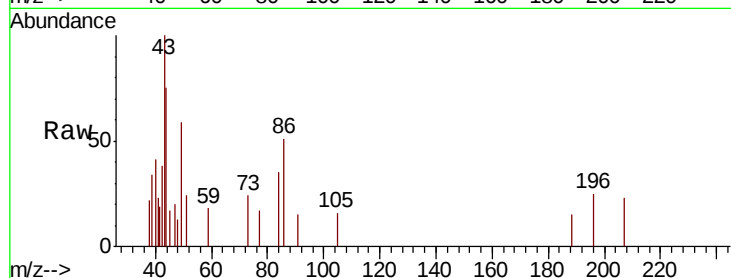
EP1-Q2-I5

Tot Ion: 43 Resp: 2409

Ion Ratio Lower Upper

43 100

58 0.0 9.7 14.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

2.33

800

600

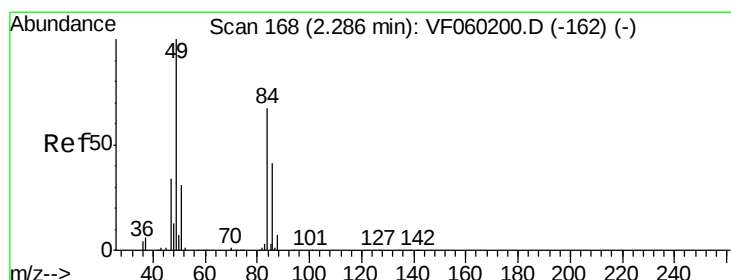
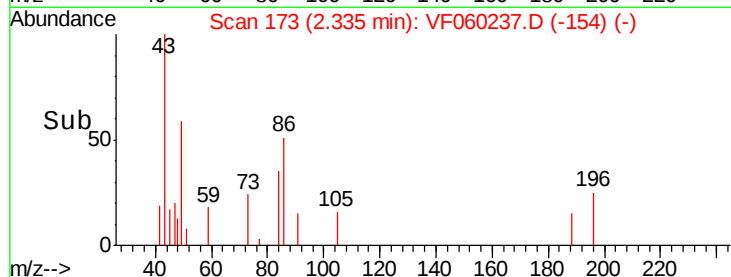
400

200

0

2.25 2.30 2.35 2.40 2.45

Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 2.29 min Scan# 168

Delta R.T. -0.00 min

Lab File: VF060237.D

Acq: 10 Sep 2018 16:20

Tgt Ion: 84 Resp: 6373

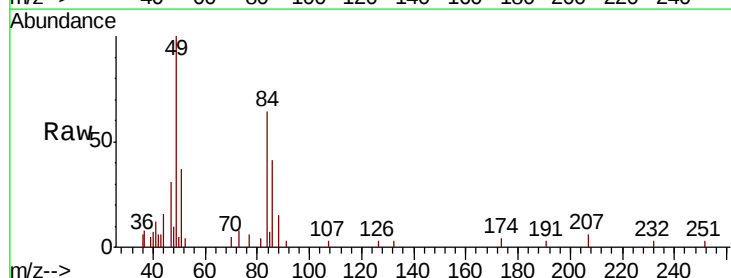
Ion Ratio Lower Upper

84 100

49 156.2 120.1 180.1

51 57.8 37.0 55.6#

86 63.8 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

5000

4000

3000

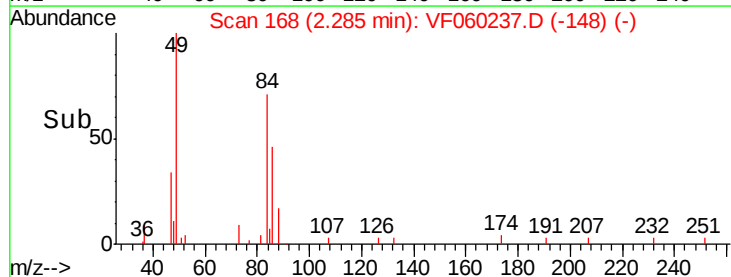
2000

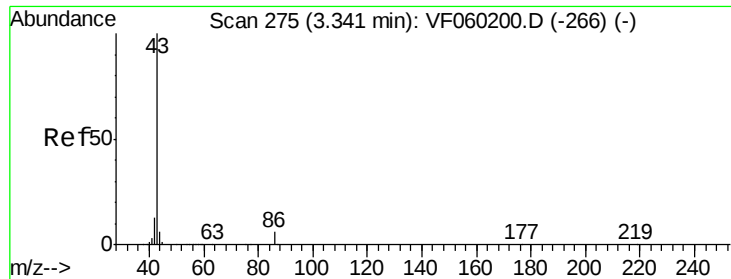
1000

0

2.20 2.30 2.40

Time-->





#23

Vinyl Acetate

Concen: 22.85 ug/l

RT: 3.47 min Scan# 288

Delta R.T. 0.13 min

Lab File: VF060237.D

Acq: 10 Sep 2018 16:20

Instrument :

MSVOA_F

ClientSampleId :

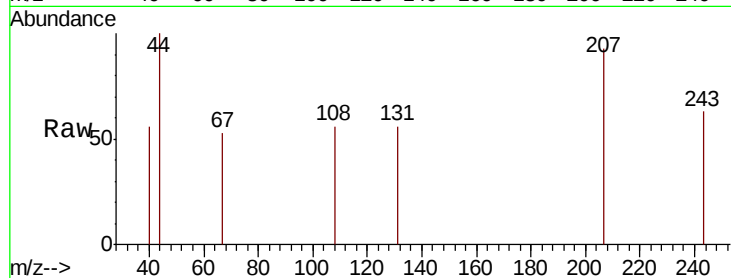
EP1-Q2-I5

Tot Ion: 43 Resp: 116

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

3.47

200

150

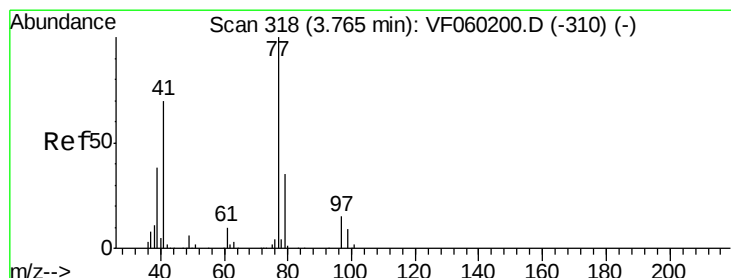
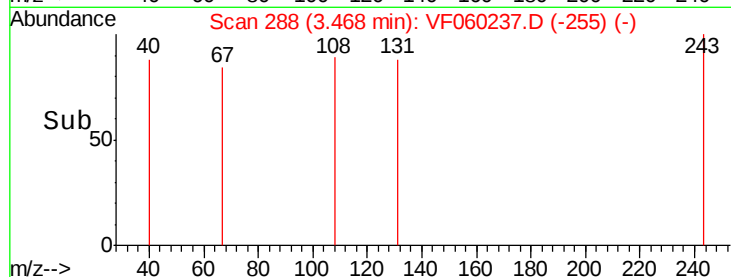
100

50

0

3.44 3.46 3.48 3.50

Time-->



#26

2,2-Dichloropropane

Concen: 2.06 ug/l

RT: 3.68 min Scan# 309

Delta R.T. -0.09 min

Lab File: VF060237.D

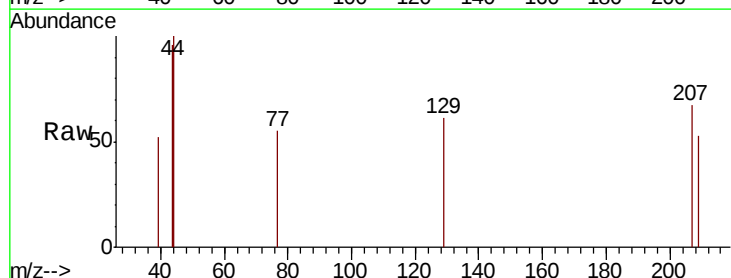
Acq: 10 Sep 2018 16:20

Tgt Ion: 77 Resp: 127

Ion Ratio Lower Upper

77 100

97 0.0 7.5 22.5#



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0

3.68

120

100

80

60

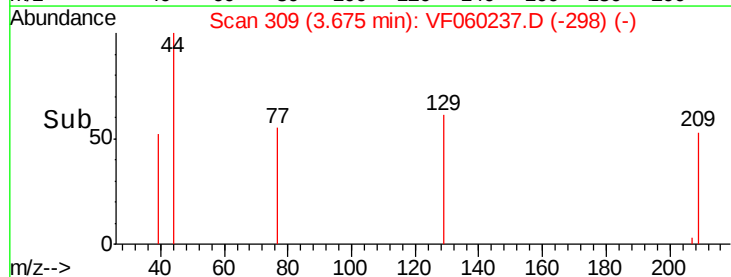
40

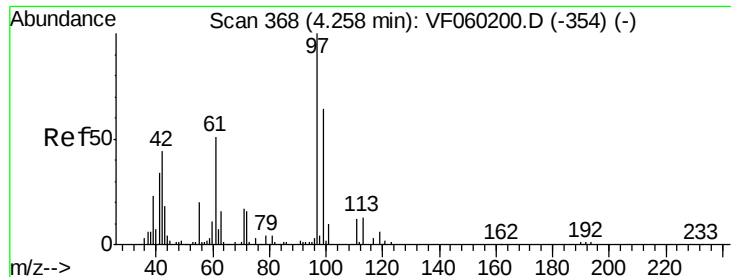
20

0

3.65 3.70

Time-->

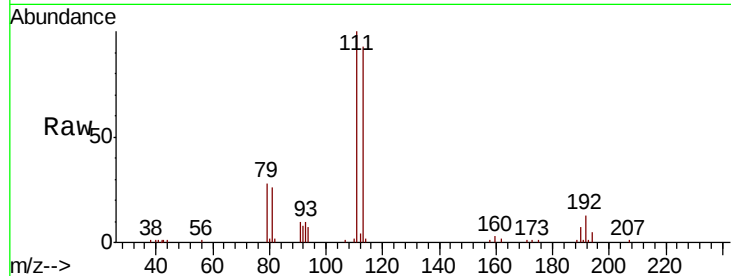




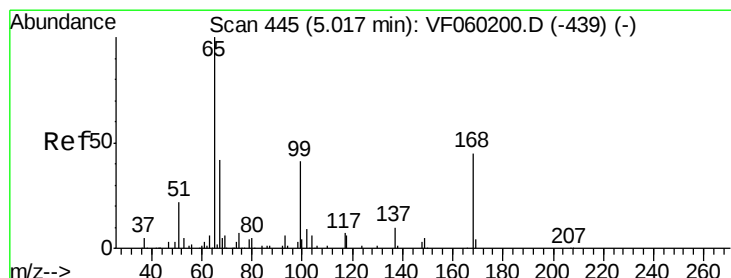
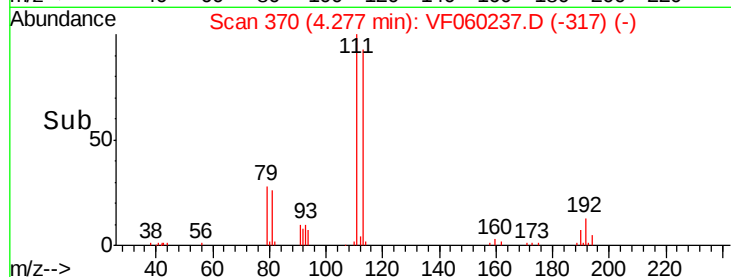
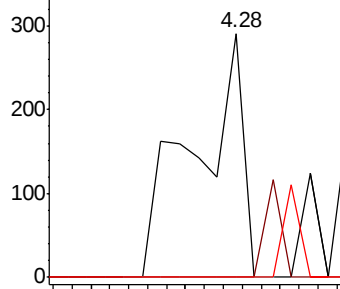
#29
Tetrahydrofuran
Concen: 1.75 ug/l
RT: 4.28 min Scan# 370
Delta R.T. 0.02 min
Lab File: VF060237.D
Acq: 10 Sep 2018 16:20

Instrument :
MSVOA_F
ClientSampleId :
EP1-Q2-I5

Tot Ion: 42 Resp: 518
Ion Ratio Lower Upper
42 100
72 0.0 27.4 41.0#
71 0.0 28.5 42.7#

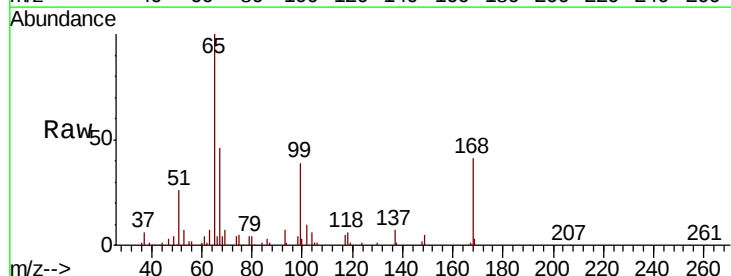


Abundance Ion 42.00 (41.70 to 42.70): VF0
Ion 72.00 (71.70 to 72.70): VF0
Ion 71.00 (70.70 to 71.70): VF0

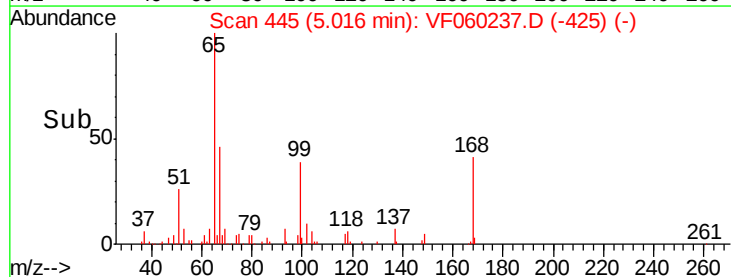
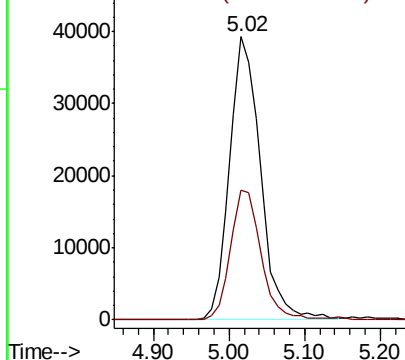


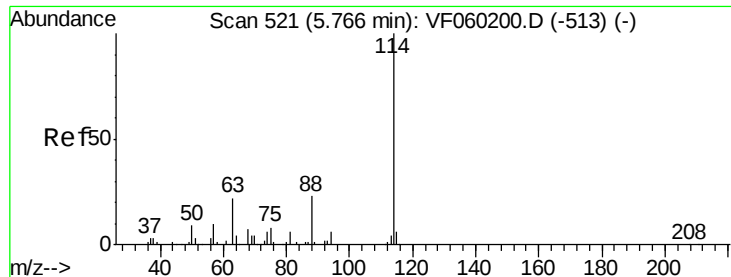
#33
1,2-Dichloroethane-d4
Concen: 34.84 ug/l
RT: 5.02 min Scan# 445
Delta R.T. -0.00 min
Lab File: VF060237.D
Acq: 10 Sep 2018 16:20

Tgt Ion: 65 Resp: 111276
Ion Ratio Lower Upper
65 100
67 45.7 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: 5.76 min Scan# 521

Delta R.T. -0.00 min

Lab File: VF060237.D

Acq: 10 Sep 2018 16:20

Instrument :

MSVOA_F

ClientSampleId :

EP1-Q2-I5

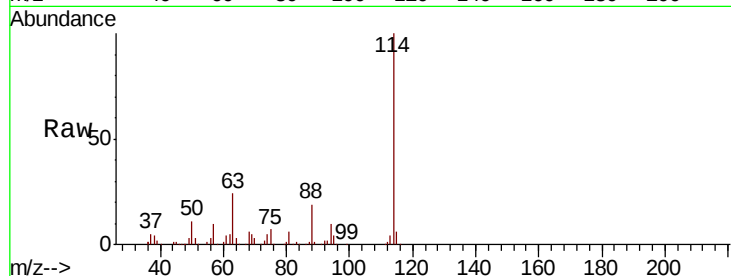
Tot Ion:114 Resp: 241071

Ion Ratio Lower Upper

114 100

63 24.2 0.0 45.6

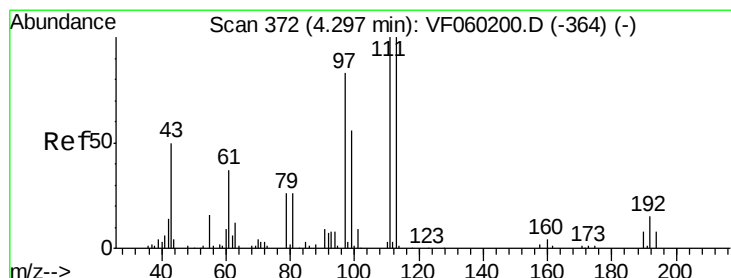
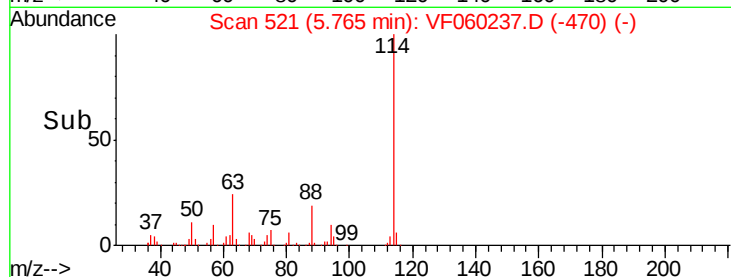
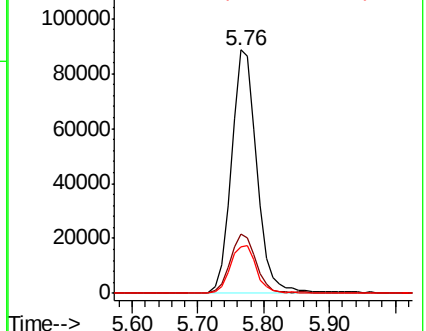
88 19.0 0.0 46.4



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: 40.47 ug/l

RT: 4.30 min Scan# 372

Delta R.T. -0.00 min

Lab File: VF060237.D

Acq: 10 Sep 2018 16:20

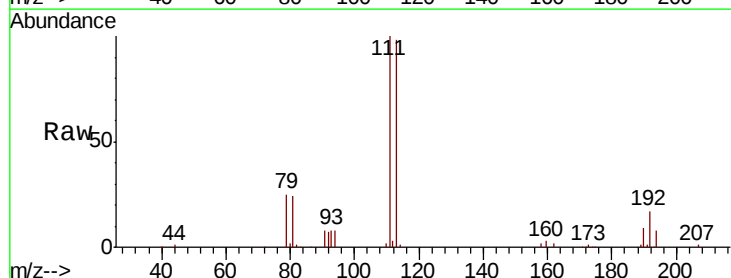
Tgt Ion:113 Resp: 95580

Ion Ratio Lower Upper

113 100

111 102.1 80.2 120.2

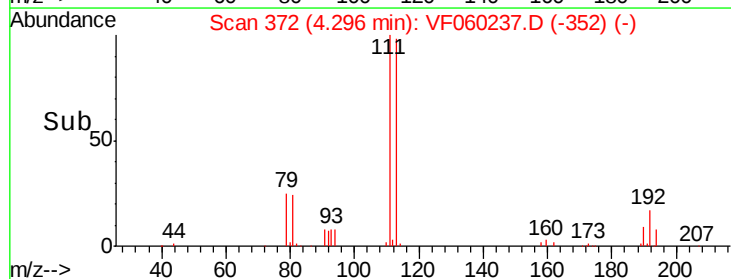
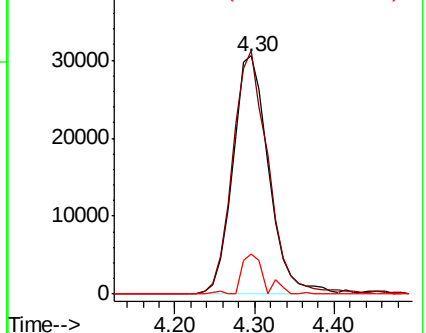
192 17.0 11.8 17.8

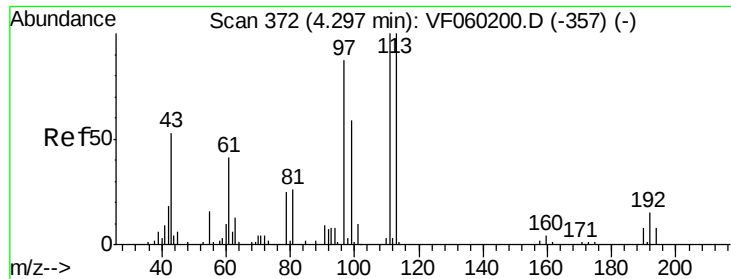


Abundance Ion 113.00 (112.70 to 113.70): V

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: 4.28 min Scan# 370

Delta R.T. -0.02 min

Lab File: VF060237.D

Acq: 10 Sep 2018 16:20

Instrument :

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ClientSampleId :

EP1-Q2-I5

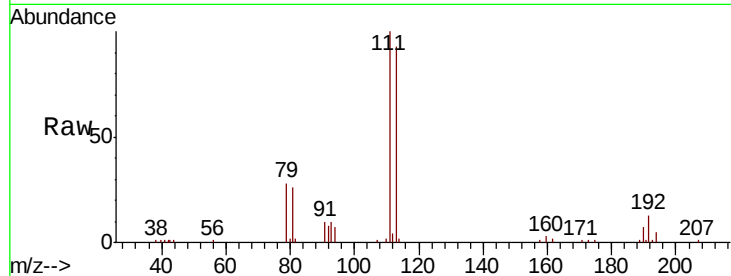
Tot Ion: 43 Resp: 132

Ion Ratio Lower Upper

43 100

61 0.0 61.6 92.4#

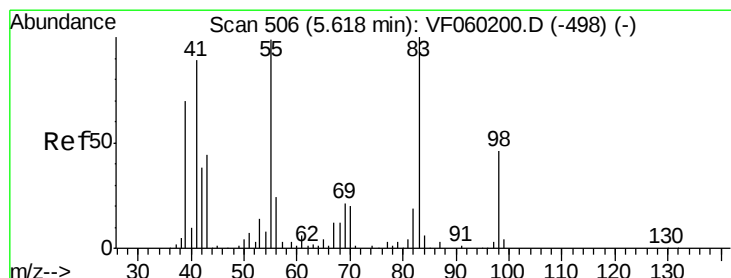
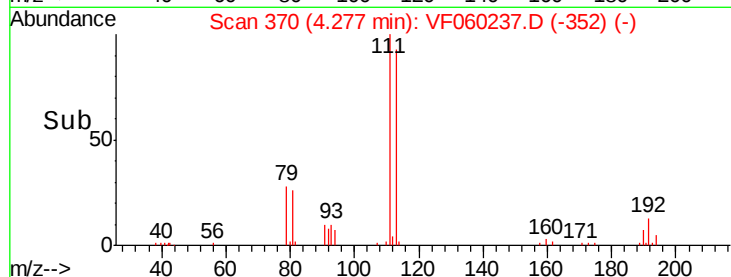
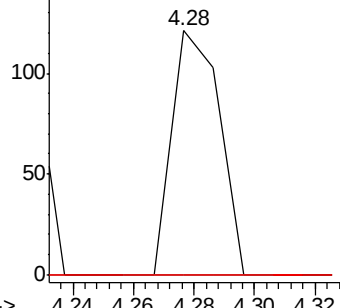
70 0.0 6.9 10.3#



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: 1.09 ug/l

RT: 5.76 min Scan# 521

Delta R.T. 0.15 min

Lab File: VF060237.D

Acq: 10 Sep 2018 16:20

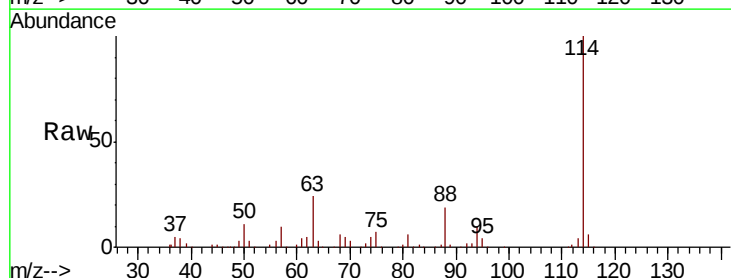
Tgt Ion: 83 Resp: 2591

Ion Ratio Lower Upper

83 100

55 38.6 79.0 118.4#

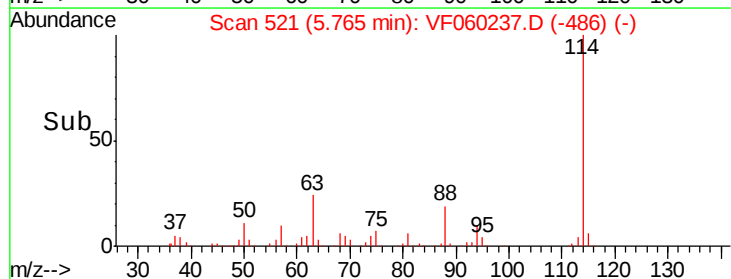
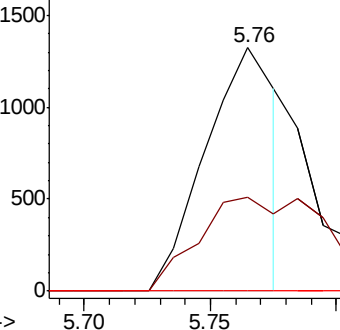
98 0.0 36.7 55.1#

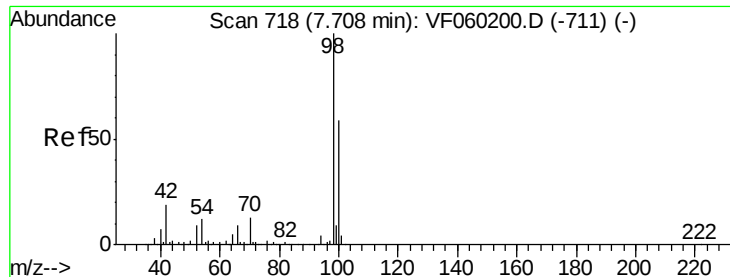


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#50

Toluene-d8

Concen: 37.35 ug/l

RT: 7.71 min Scan# 718

Delta R.T. -0.00 min

Lab File: VF060237.D

Acq: 10 Sep 2018 16:20

Instrument :

MSVOA_F

ClientSampleId :

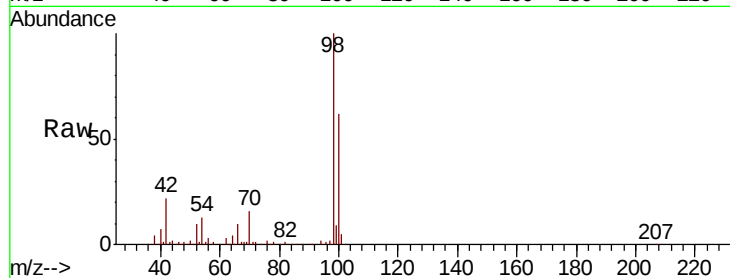
EP1-Q2-I5

Tot Ion: 98 Resp: 220147

Ion Ratio Lower Upper

98 100

100 62.2 47.4 71.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF

7.71

100000

80000

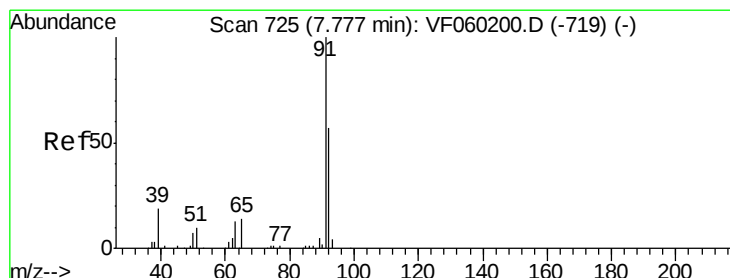
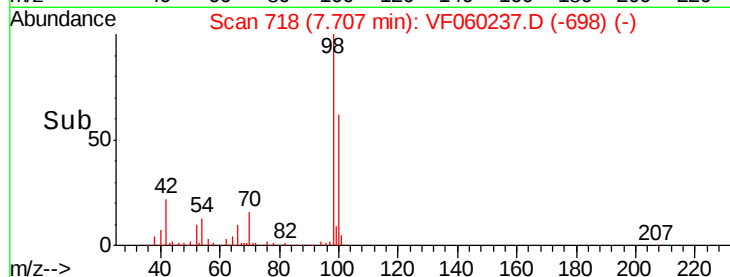
60000

40000

20000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 1.91 ug/l

RT: 7.71 min Scan# 718

Delta R.T. -0.07 min

Lab File: VF060237.D

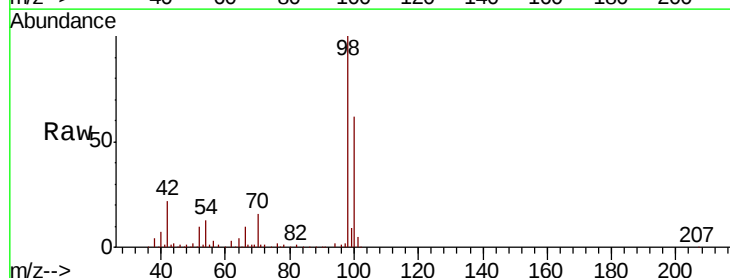
Acq: 10 Sep 2018 16:20

Tgt Ion: 63 Resp: 339

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

7.71

200

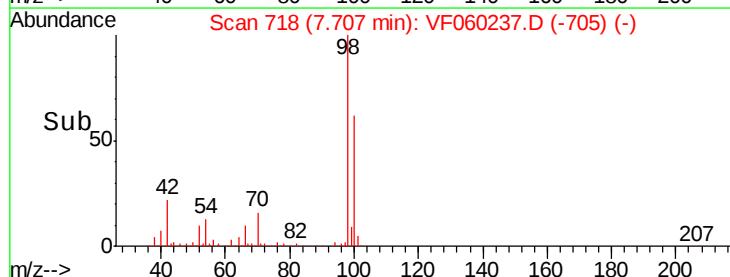
150

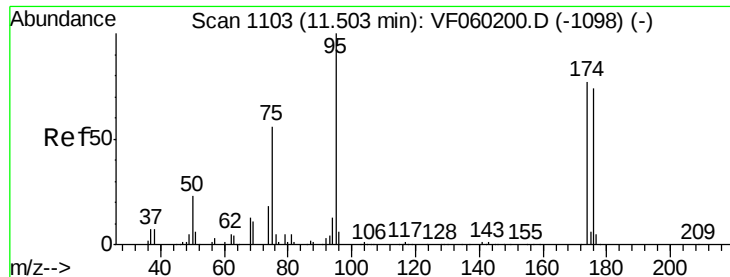
100

50

0

Time-->





#62

4-Bromofluorobenzene

Concen: 36.93 ug/l

RT: 11.51 min Scan# 1104

Delta R.T. 0.01 min

Lab File: VF060237.D

Acq: 10 Sep 2018 16:20

Instrument :

MSVOA_F

ClientSampleId :

EP1-Q2-I5

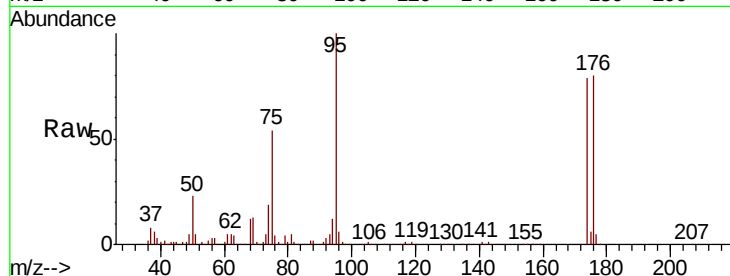
Tot Ion: 95 Resp: 122814

Ion Ratio Lower Upper

95 100

174 79.0 0.0 153.2

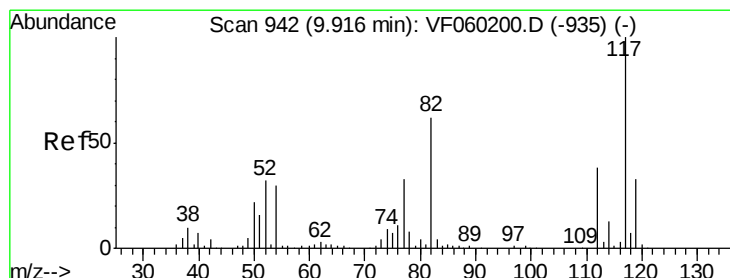
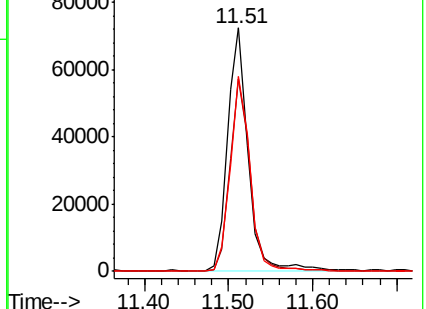
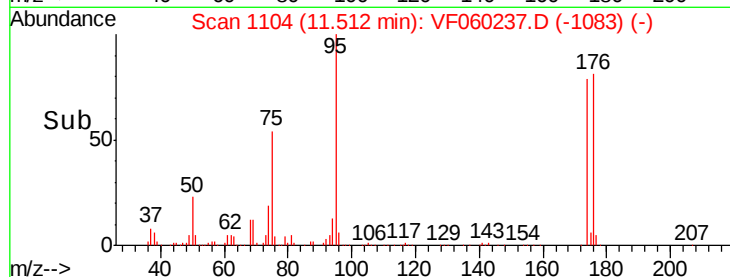
176 80.3 0.0 147.2



Abundance Ion 95.00 (94.70 to 95.70): VF060237.D (-1083) (-)

Ion 174.00 (173.70 to 174.70): VF060237.D (-1083) (-)

Ion 176.00 (175.70 to 176.70): VF060237.D (-1083) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 9.91 min Scan# 942

Delta R.T. -0.00 min

Lab File: VF060237.D

Acq: 10 Sep 2018 16:20

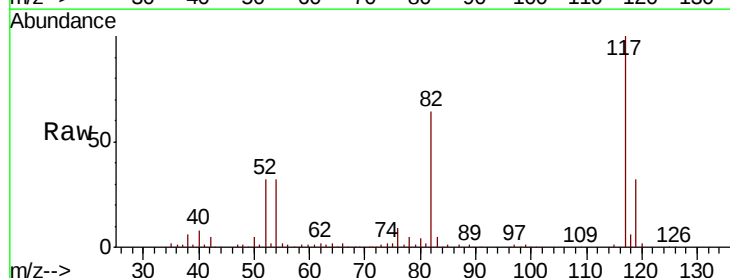
Tgt Ion: 117 Resp: 248045

Ion Ratio Lower Upper

117 100

82 64.4 49.3 73.9

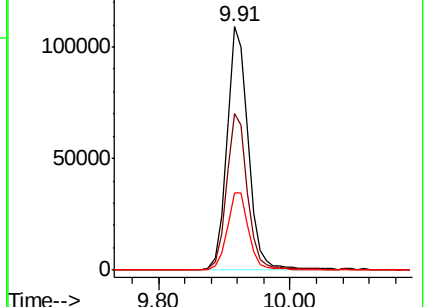
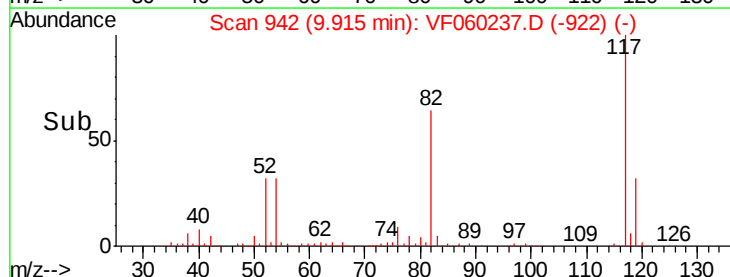
119 31.8 26.5 39.7

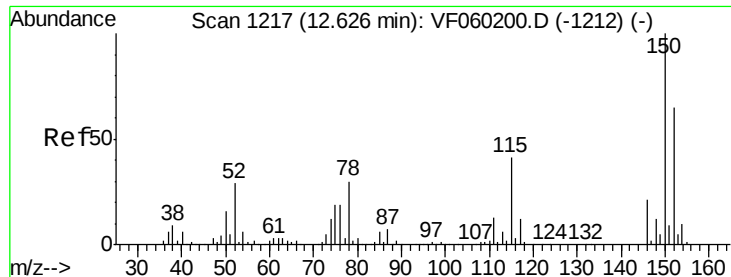


Abundance Ion 117.00 (116.70 to 117.70): VF060237.D (-922) (-)

Ion 82.00 (81.70 to 82.70): VF060237.D (-922) (-)

Ion 119.00 (118.70 to 119.70): VF060237.D (-922) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.64 min Scan# 1218

Delta R.T. 0.01 min

Lab File: VF060237.D

Acq: 10 Sep 2018 16:20

Instrument :

MSVOA_F

ClientSampleId :

EP1-Q2-I5

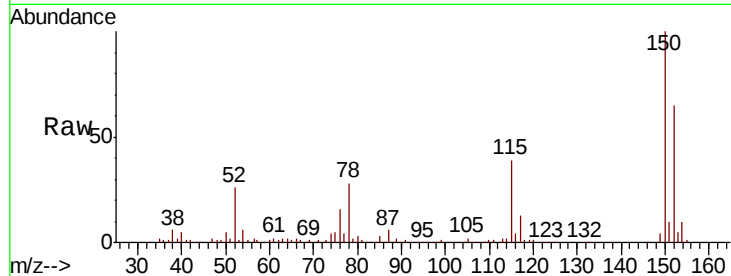
Tot Ion:152 Resp: 141302

Ion Ratio Lower Upper

152 100

115 60.4 31.5 94.5

150 152.9 0.0 310.4

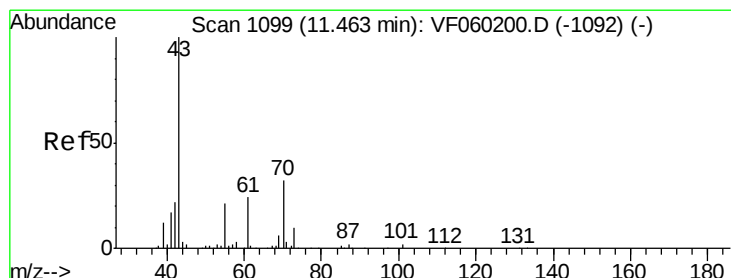
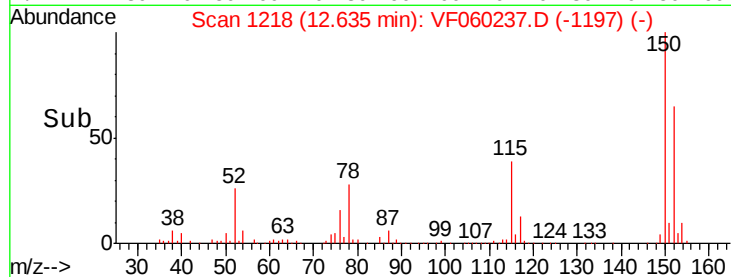
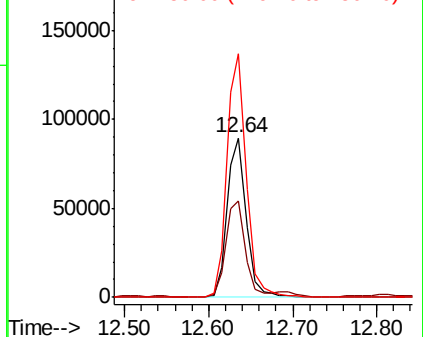


Abundance

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-aryl acetate

Concen: 5.38 ug/l

RT: 11.48 min Scan# 1101

Delta R.T. 0.02 min

Lab File: VF060237.D

Acq: 10 Sep 2018 16:20

Tgt Ion: 43 Resp: 1251

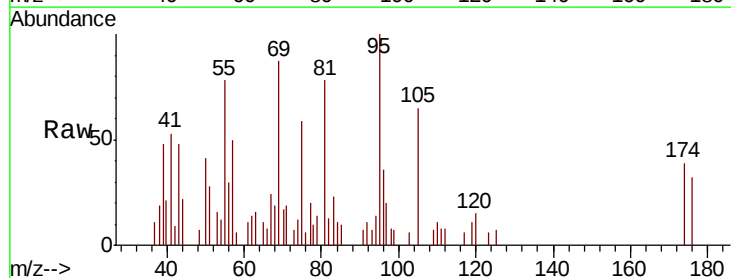
Ion Ratio Lower Upper

43 100

70 35.0 25.8 38.6

55 161.1 16.8 25.2#

61 23.0 18.9 28.3



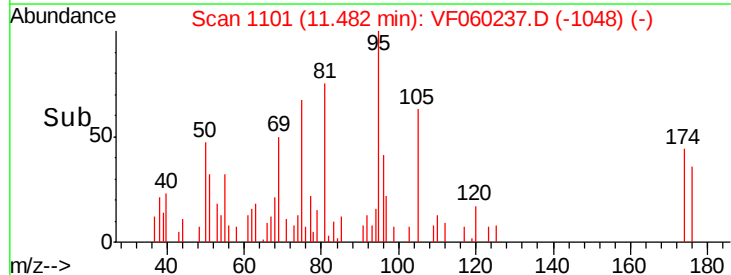
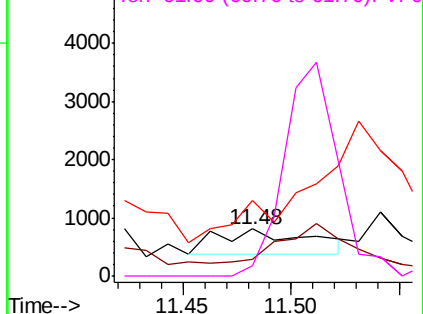
Abundance

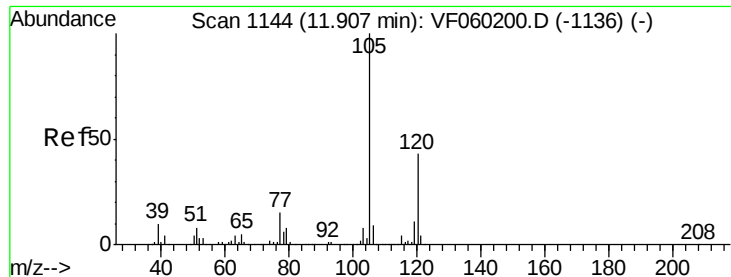
Ion 43.00 (42.70 to 43.70): VF0

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





#80

1,3,5-Trimethylbenzene

Concen: 6.29 ug/l

RT: 11.92 min Scan# 1145

Delta R.T. 0.01 min

Lab File: VF060237.D

Acq: 10 Sep 2018 16:20

Instrument :

MSVOA_F

ClientSampleId :

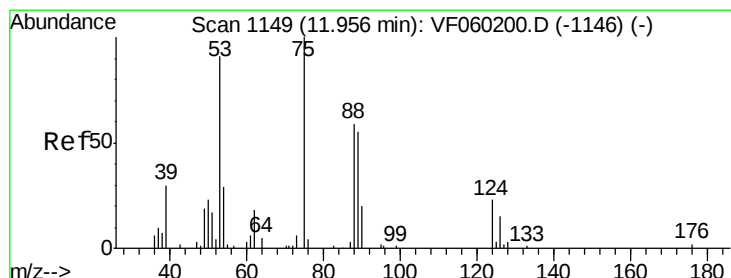
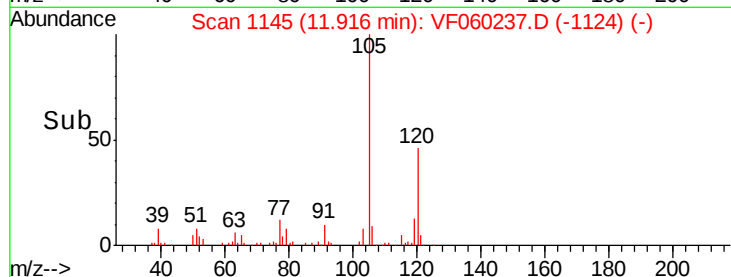
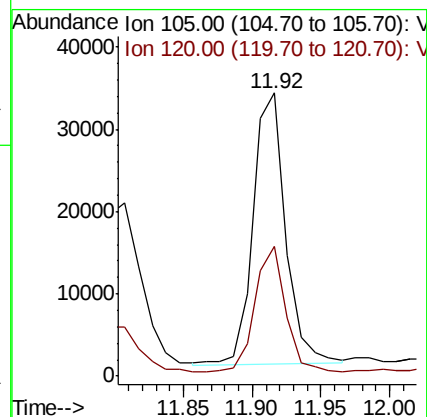
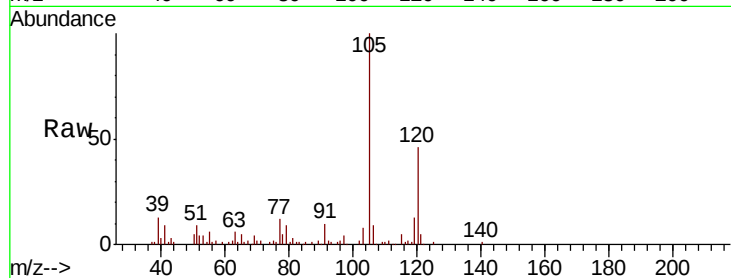
EP1-Q2-I5

Tot Ion:105 Resp: 54155

Ion Ratio Lower Upper

105 100

120 45.7 21.6 64.8



#81

trans-1,4-Dichloro-2-butene

Concen: 3.01 ug/l

RT: 11.98 min Scan# 1151

Delta R.T. 0.02 min

Lab File: VF060237.D

Acq: 10 Sep 2018 16:20

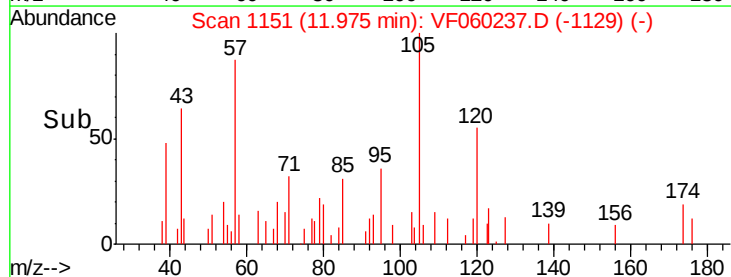
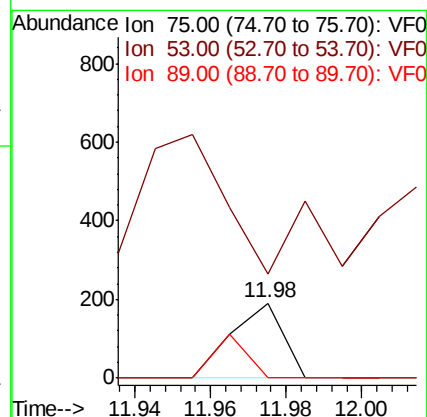
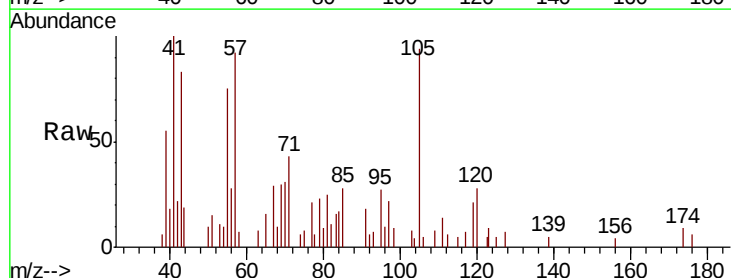
Tgt Ion: 75 Resp: 179

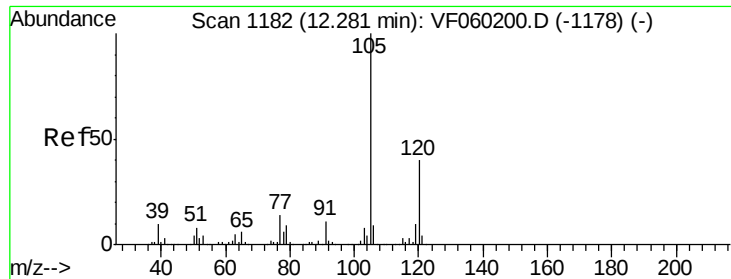
Ion Ratio Lower Upper

75 100

53 139.3 76.5 114.7#

89 0.0 46.5 69.7#

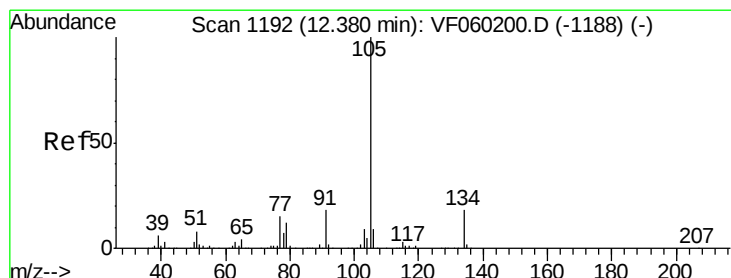
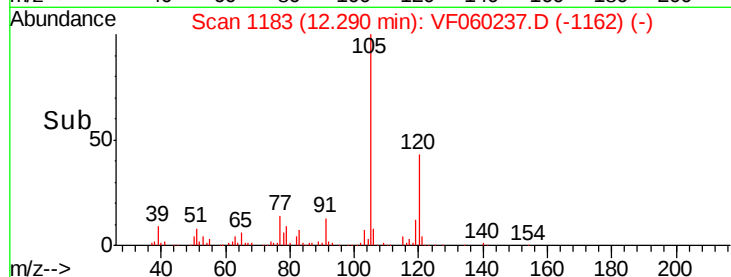
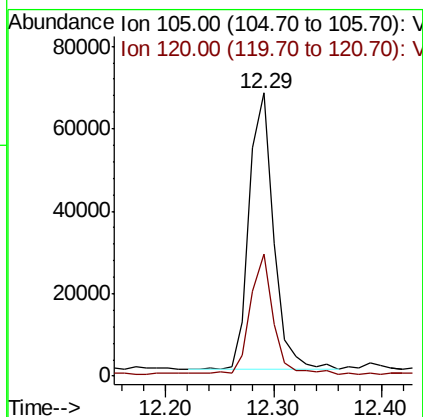
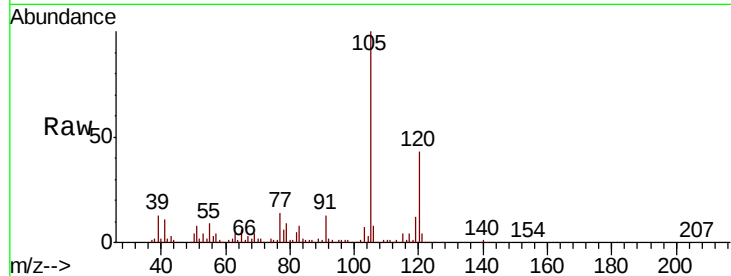




#84
 1,2,4-Trimethylbenzene
 Concen: 11.97 ug/l
 RT: 12.29 min Scan# 1183
 Delta R.T. 0.01 min
 Lab File: VF060237.D
 Acq: 10 Sep 2018 16:20

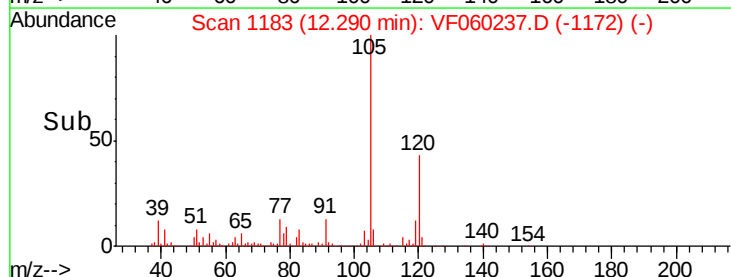
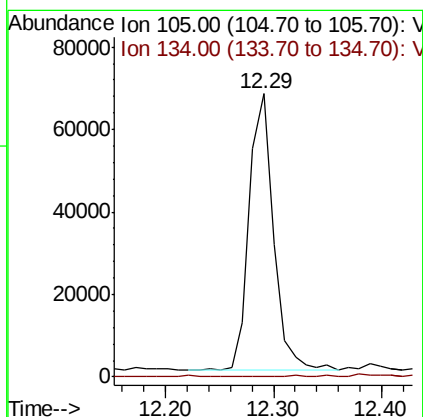
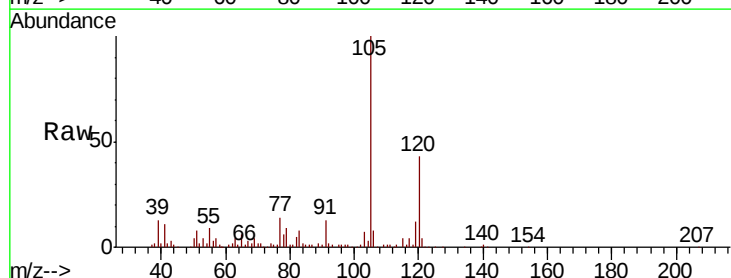
Instrument :
 MSVOA_F
 ClientSampleId :
 EP1-Q2-I5

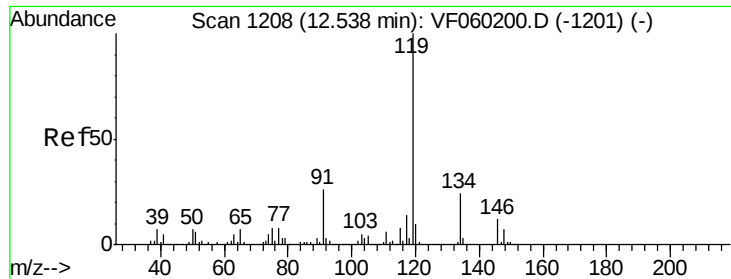
Tot Ion:105 Resp: 104618
 Ion Ratio Lower Upper
 105 100
 120 42.9 20.2 60.5



#85
 sec-Butylbenzene
 Concen: 9.66 ug/l
 RT: 12.29 min Scan# 1183
 Delta R.T. -0.09 min
 Lab File: VF060237.D
 Acq: 10 Sep 2018 16:20

Tgt Ion:105 Resp: 104481
 Ion Ratio Lower Upper
 105 100
 134 0.4 8.8 26.5#

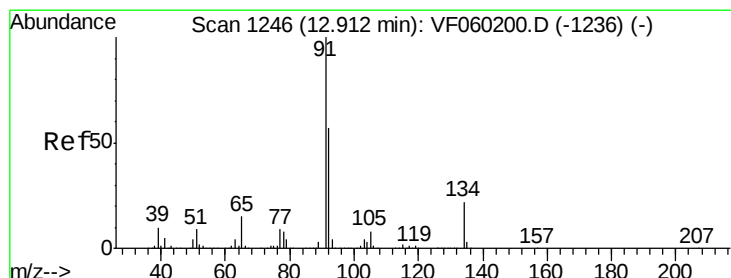
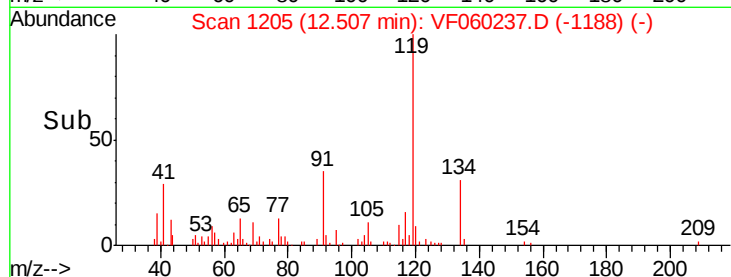
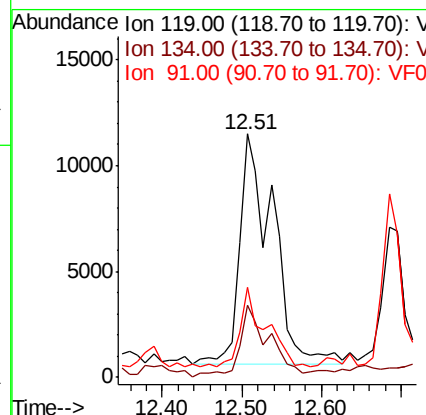
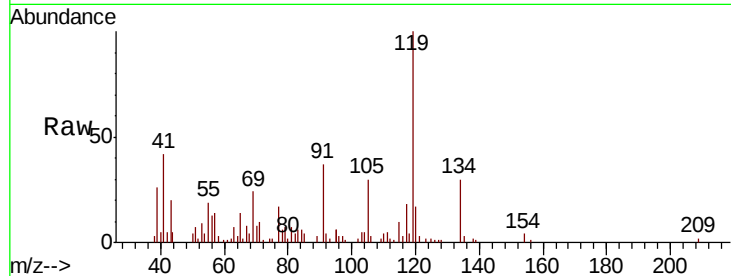




#86
 p-Isopropyltoluene
 Concen: 3.29 ug/l
 RT: 12.51 min Scan# 1205
 Delta R.T. -0.03 min
 Lab File: VF060237.D
 Acq: 10 Sep 2018 16:20

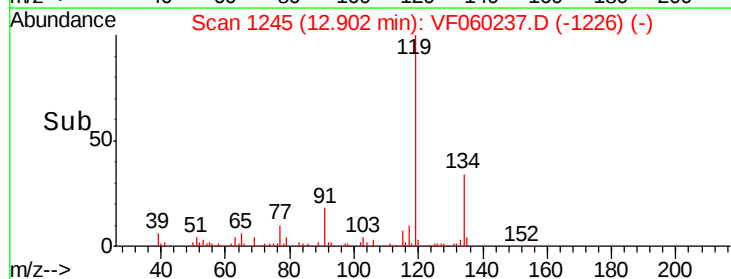
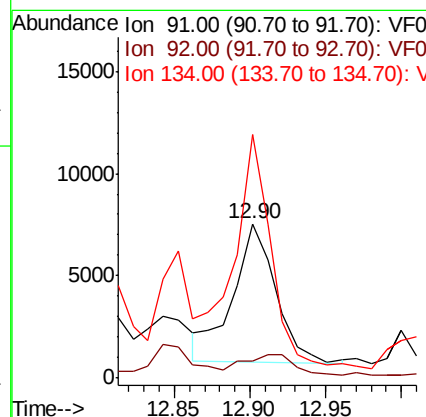
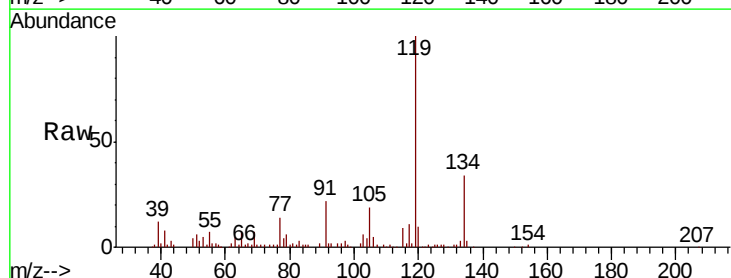
Instrument :
 MSVOA_F
 ClientSampleId :
 EP1-Q2-I5

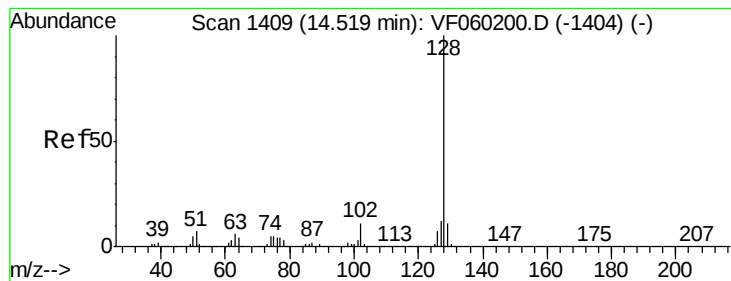
Tot Ion	Ratio	Lower	Upper
119	100		
134	29.5	12.0	36.0
91	36.9	12.9	38.7



#89
 n-Butylbenzene
 Concen: 1.44 ug/l
 RT: 12.90 min Scan# 1245
 Delta R.T. -0.01 min
 Lab File: VF060237.D
 Acq: 10 Sep 2018 16:20

Tgt Ion	Ratio	Lower	Upper
91	100		
92	11.4	28.4	85.3#
134	158.0	11.1	33.3#





#95

Naphthalene

Concen: 5.68 ug/l

RT: 14.52 min Scan# 1409

Delta R.T. 0.00 min

Lab File: VF060237.D

Acq: 10 Sep 2018 16:20

Instrument :

MSVOA_F

ClientSampleId :

EP1-Q2-I5

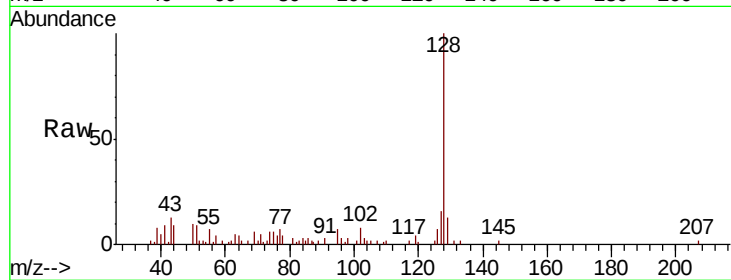
Tot Ion:128 Resp: 17313

Ion Ratio Lower Upper

128 100

127 16.2 9.9 14.9#

129 12.5 8.9 13.3



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

