

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF091018\
 Data File : VF060233.D
 Acq On : 10 Sep 2018 14:30
 Operator : VA/AP
 Sample : J4803-09
 Misc : 5.09/5mL/MSVOA F/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 EP1-Q2-G7

Quant Time: Sep 11 07:12:52 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	196003	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.76	114	269092	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	254119	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.64	152	161609	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.03	65	128496	37.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	75.06%	
35) Dibromofluoromethane	4.29	113	107682	40.85	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	81.70%	
50) Toluene-d8	7.71	98	219777	33.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	66.82%	
62) 4-Bromofluorobenzene	11.51	95	152658	41.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	82.26%	

Target Compounds

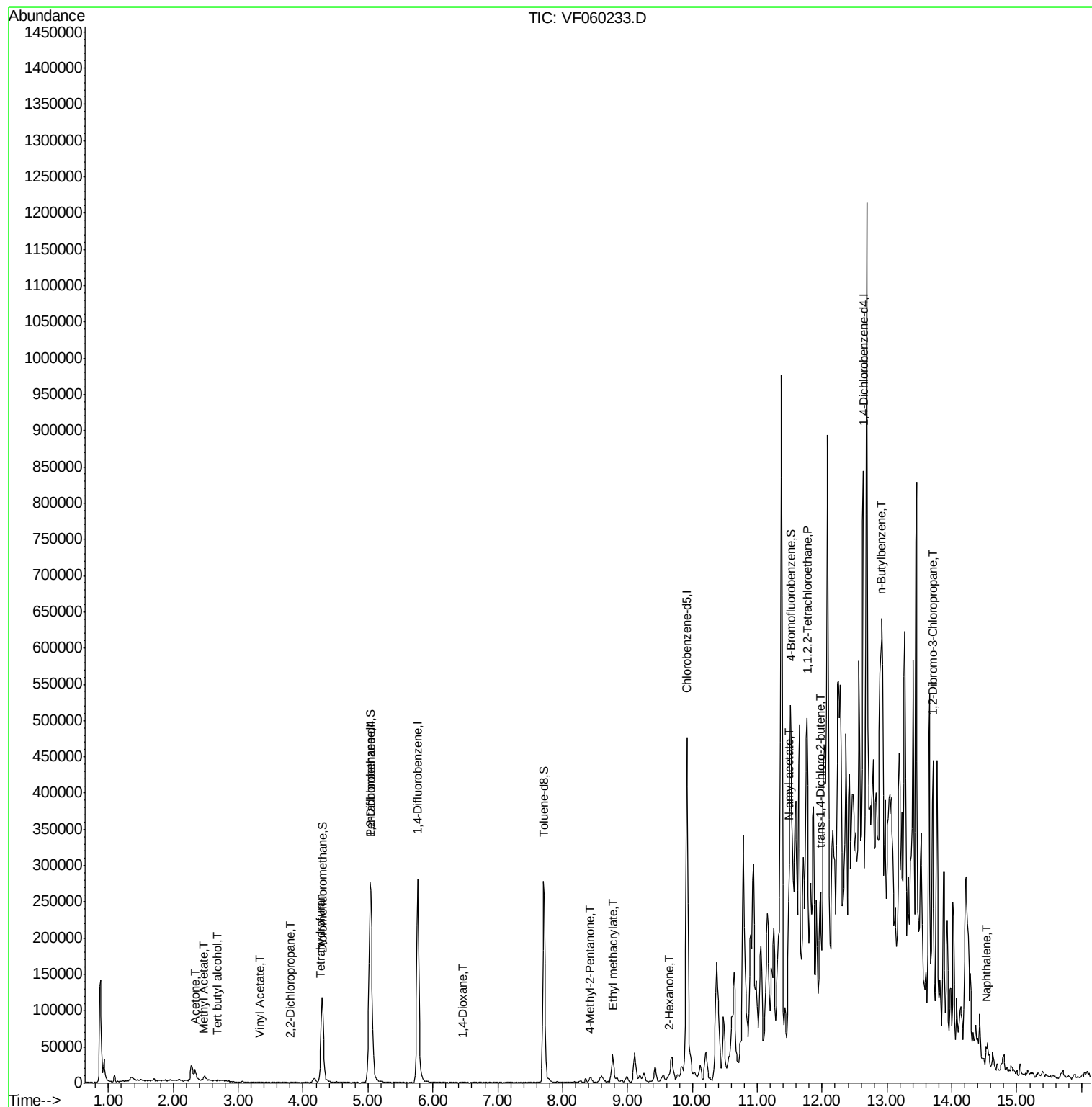
						Qvalue
11) Tert butyl alcohol	2.68	59	541	15.08	ug/l #	30
13) Acrolein	2.08	56	163	Below	Cal #	42
16) Acetone	2.33	43	19440	30.76	ug/l #	89
18) Methyl Acetate	2.45	43	1809	1.56	ug/l	93
20) Methylene Chloride	2.28	84	10359	Below	Cal #	92
23) Vinyl Acetate	3.33	43	183	22.87	ug/l #	82
26) 2,2-Dichloropropane	3.79	77	66	2.05	ug/l #	64
29) Tetrahydrofuran	4.27	42	350	1.10	ug/l #	40
37) Ethyl Acetate	4.31	43	156	Below	Cal #	17
49) 1,4-Dioxane	6.44	88	75	3.49	ug/l #	43
51) 4-Methyl-2-Pentanone	8.42	43	4325	2.64	ug/l #	57
56) Ethyl methacrylate	8.77	69	17377	9.46	ug/l #	79
59) 2-Hexanone	9.64	43	2721	1.05	ug/l	85
74) N-amyl acetate	11.48	43	13908	10.46	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	11.77	83	59230	35.33	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.96	75	359	3.36	ug/l #	1
89) n-Butylbenzene	12.90	91	11001	1.04	ug/l #	18
92) 1,2-Dibromo-3-Chloropropan	13.71	75	1776	4.15	ug/l #	2
95) Naphthalene	14.52	128	5145	3.41	ug/l #	33

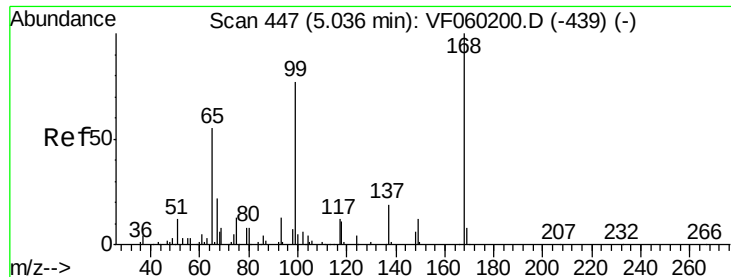
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VF060233.D

Acq: 10 Sep 2018 14:30

Instrument :

MSVOA_F

ClientSampleId :

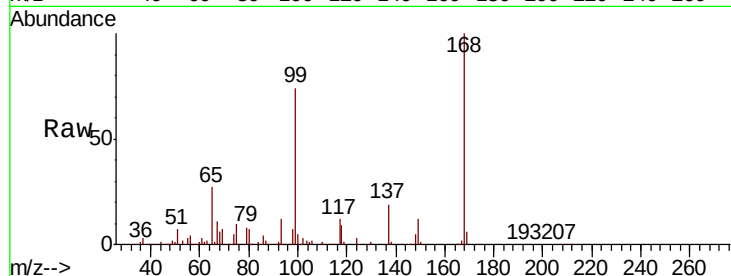
EP1-Q2-G7

Tot Ion:168 Resp: 196003

Ion Ratio Lower Upper

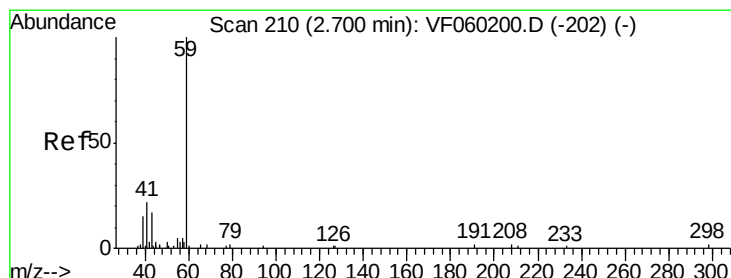
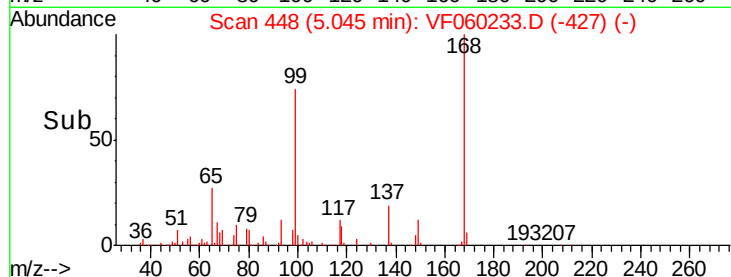
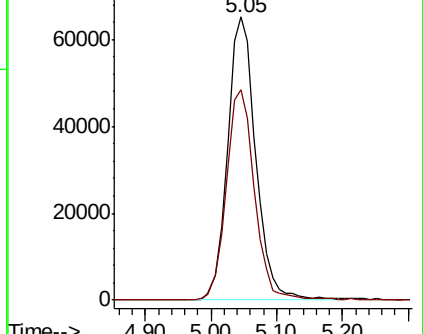
168 100

99 74.3 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: 15.08 ug/l

RT: 2.68 min Scan# 208

Delta R.T. -0.02 min

Lab File: VF060233.D

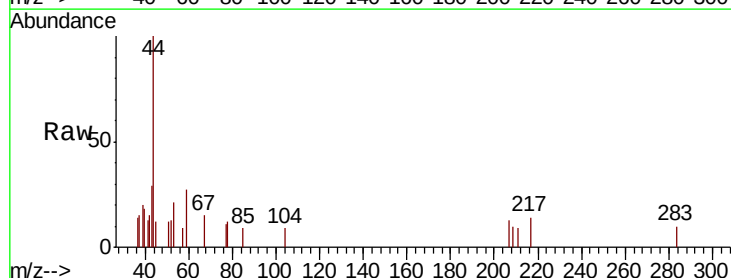
Acq: 10 Sep 2018 14:30

Tgt Ion: 59 Resp: 541

Ion Ratio Lower Upper

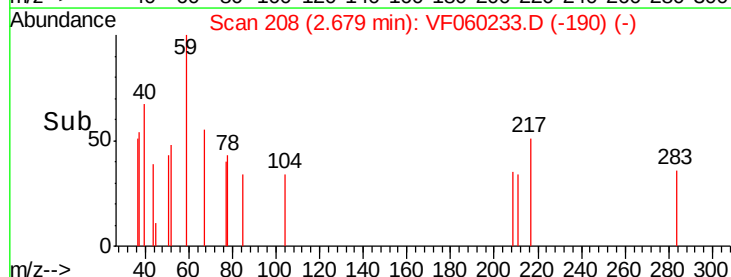
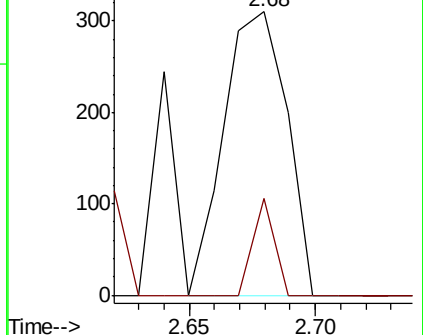
59 100

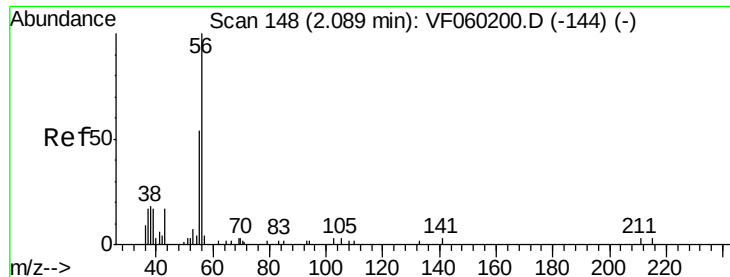
57 34.2 7.2 10.8#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

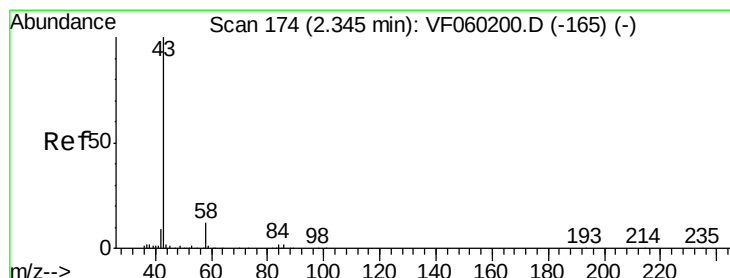
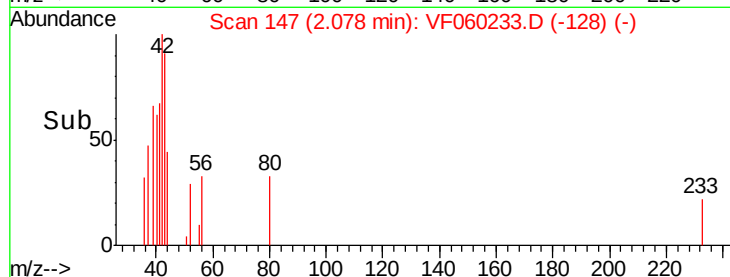
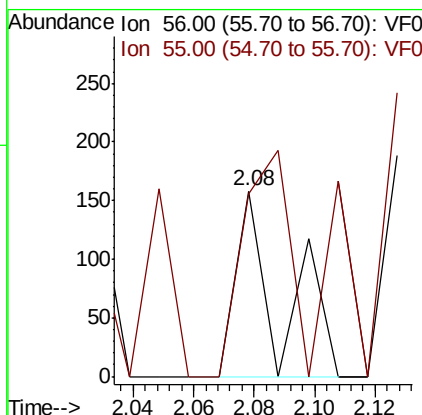
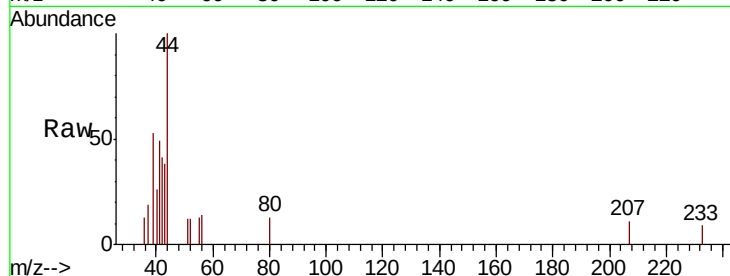




#13
 Acrolein
 Concen: Below Cal
 RT: 2.08 min Scan# 147
 Delta R.T. -0.01 min
 Lab File: VF060233.D
 Acq: 10 Sep 2018 14:30

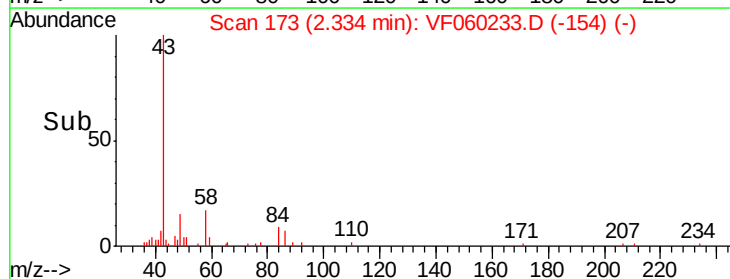
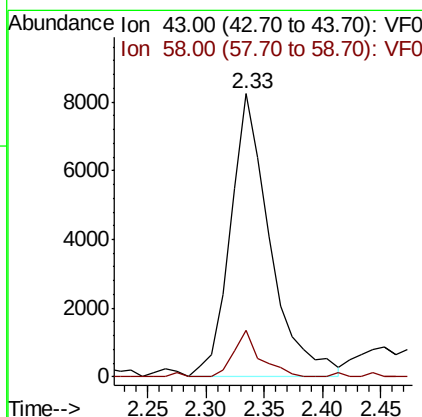
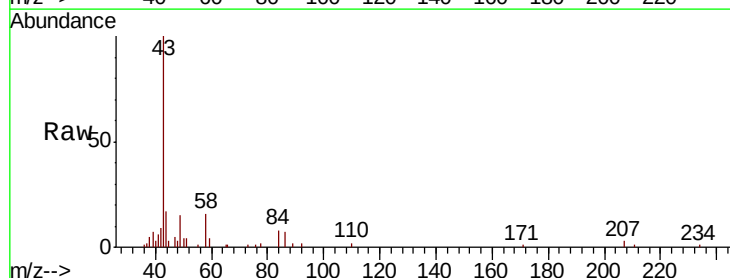
Instrument :
 MSVOA_F
 ClientSampleId :
 EP1-Q2-G7

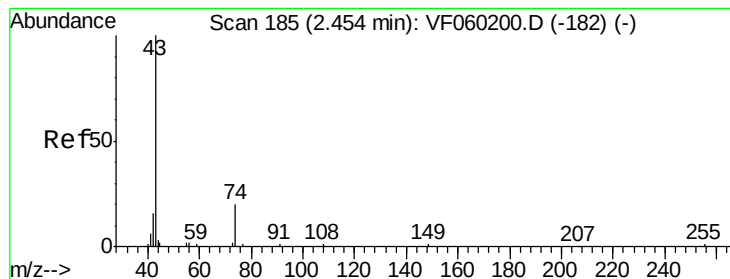
Tot Ion: 56 Resp: 163
 Ion Ratio Lower Upper
 56 100
 55 98.7 45.1 67.7#



#16
 Acetone
 Concen: 30.76 ug/l
 RT: 2.33 min Scan# 173
 Delta R.T. -0.01 min
 Lab File: VF060233.D
 Acq: 10 Sep 2018 14:30

Tgt Ion: 43 Resp: 19440
 Ion Ratio Lower Upper
 43 100
 58 16.3 9.7 14.5#





#18

Methvl Acetate

Concen: 1.56 ua/l

RT: 2.45 min Scan# 185

Delta R.T. -0.00 min

Lab File: VF060233.D

Acq: 10 Sep 2018 14:30

Instrument :

MSVOA_F

ClientSampleId :

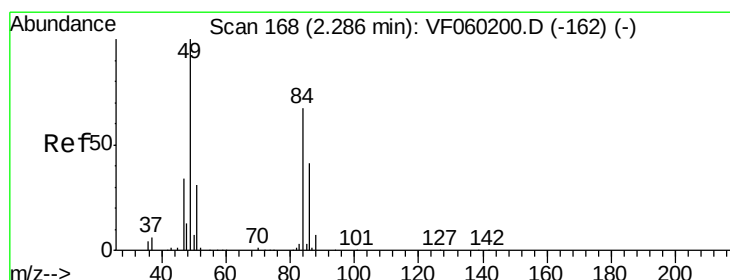
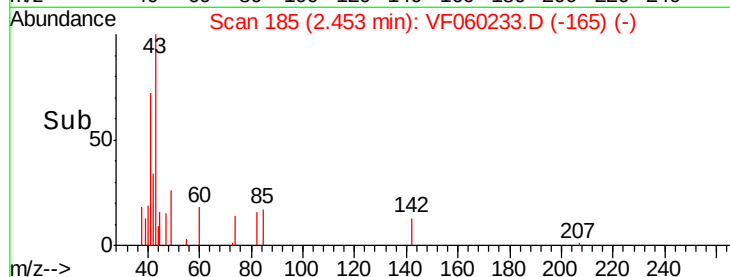
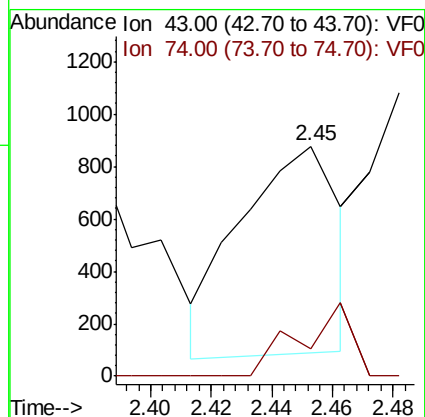
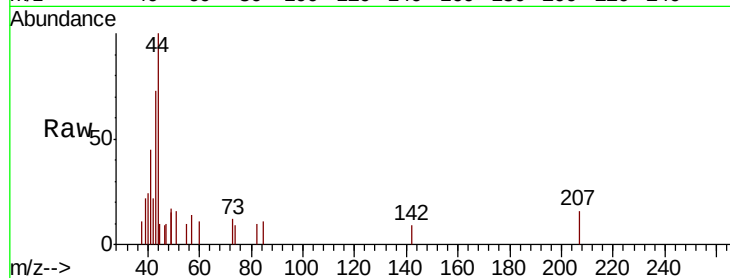
EP1-Q2-G7

Tot Ion: 43 Resp: 1809

Ion Ratio Lower Upper

43 100

74 12.0 11.9 17.9



#20

Methylene Chloride

Concen: Below Cal

RT: 2.28 min Scan# 167

Delta R.T. -0.01 min

Lab File: VF060233.D

Acq: 10 Sep 2018 14:30

Tgt Ion: 84 Resp: 10359

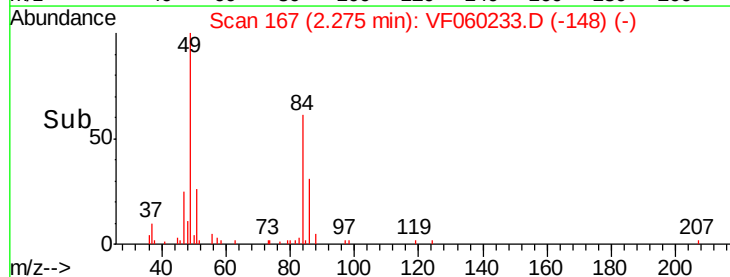
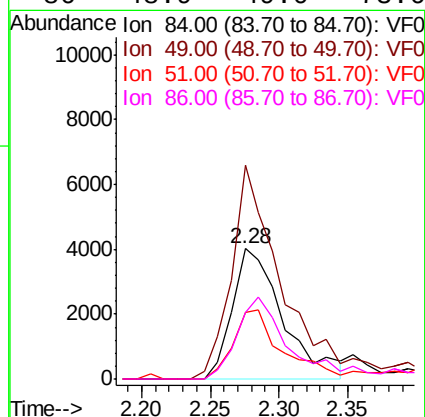
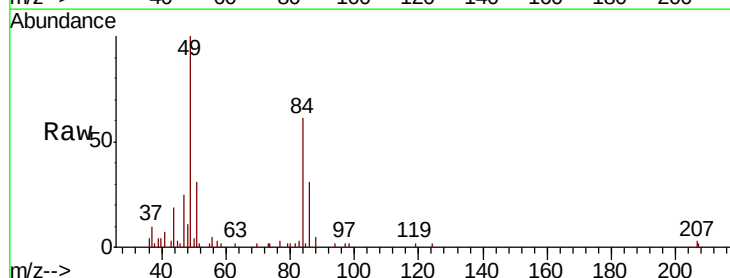
Ion Ratio Lower Upper

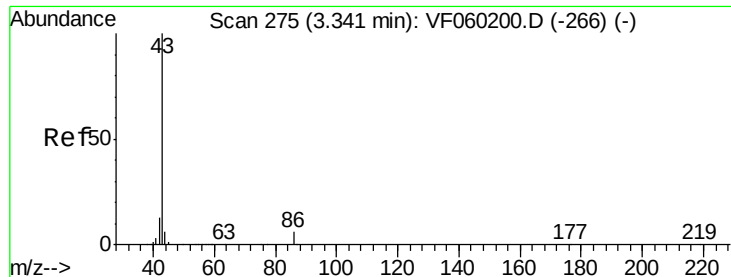
84 100

49 157.6 120.1 180.1

51 48.7 37.0 55.6

86 48.9 49.0 73.6#





#23

Vinyl Acetate

Concen: 22.87 ug/l

RT: 3.33 min Scan# 274

Delta R.T. -0.01 min

Lab File: VF060233.D

Acq: 10 Sep 2018 14:30

Instrument :

MSVOA_F

ClientSampleId :

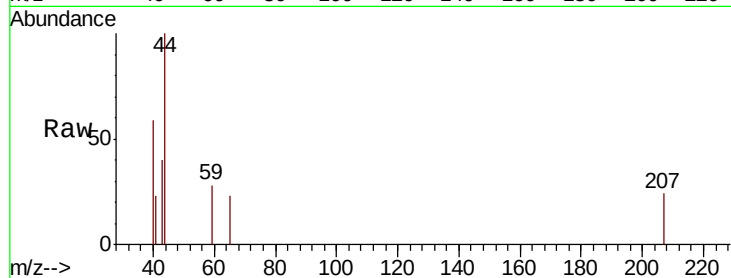
EP1-Q2-G7

Tot Ion: 43 Resp: 183

Ion Ratio Lower Upper

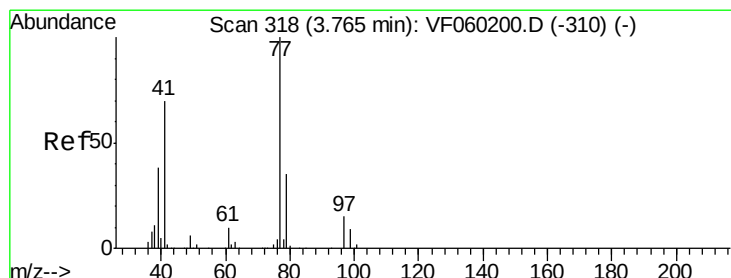
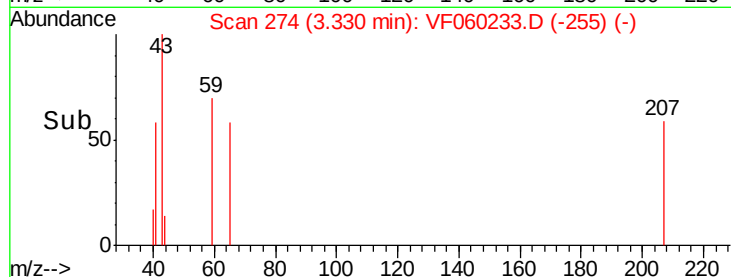
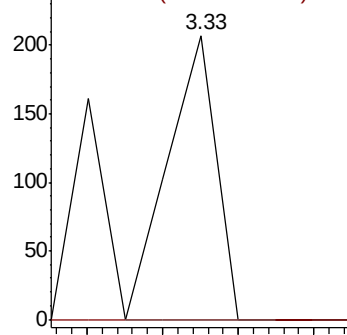
43 100

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



#26

2,2-Dichloropropane

Concen: 2.05 ug/l

RT: 3.79 min Scan# 321

Delta R.T. 0.03 min

Lab File: VF060233.D

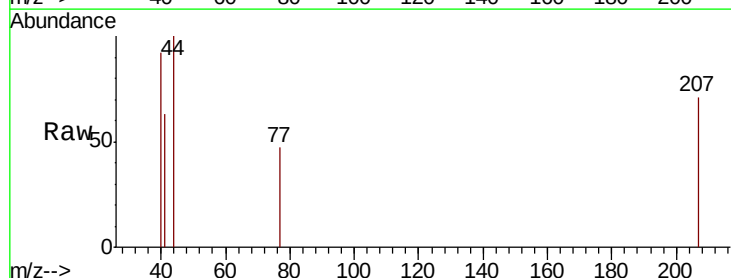
Acq: 10 Sep 2018 14:30

Tgt Ion: 77 Resp: 66

Ion Ratio Lower Upper

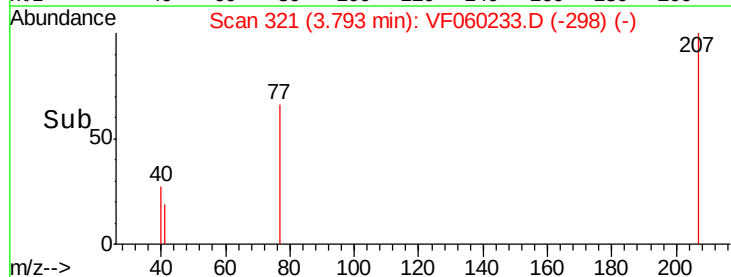
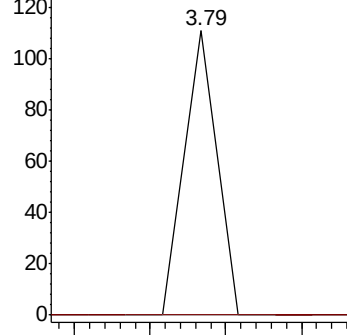
77 100

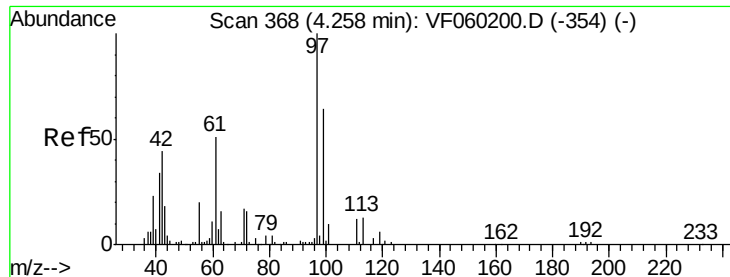
97 0.0 7.5 22.5#



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0





#29

Tetrahydrofuran

Concen: 1.10 ug/l

RT: 4.27 min Scan# 369

Delta R.T. 0.01 min

Lab File: VF060233.D

Acq: 10 Sep 2018 14:30

Instrument :

MSVOA_F

ClientSampleId :

EP1-Q2-G7

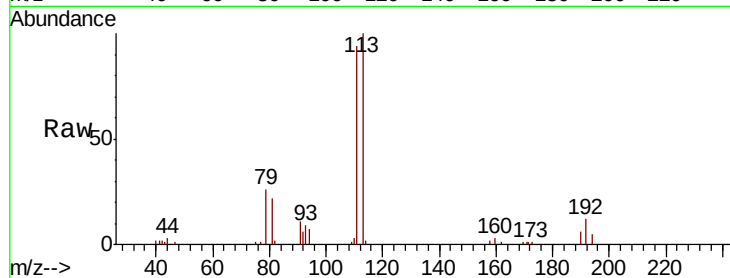
Tot Ion: 42 Resp: 350

Ion Ratio Lower Upper

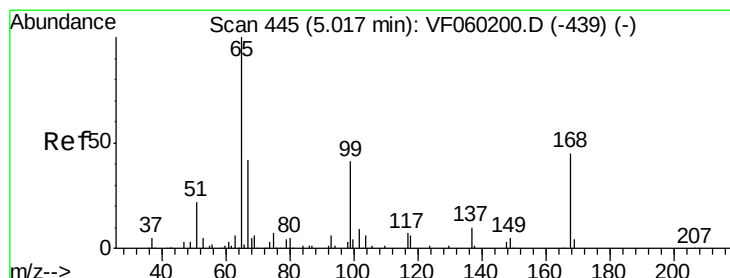
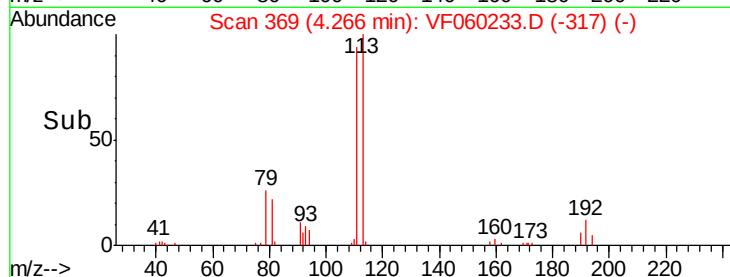
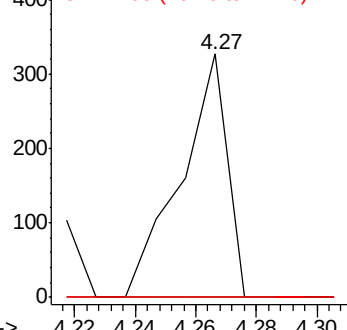
42 100

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: 37.53 ug/l

RT: 5.03 min Scan# 446

Delta R.T. 0.01 min

Lab File: VF060233.D

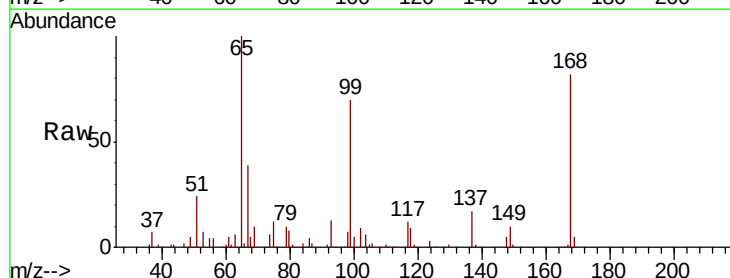
Acq: 10 Sep 2018 14:30

Tgt Ion: 65 Resp: 128496

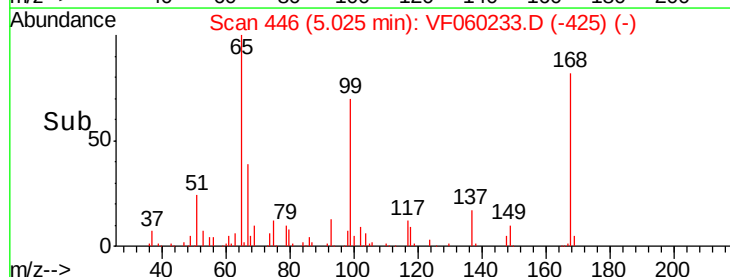
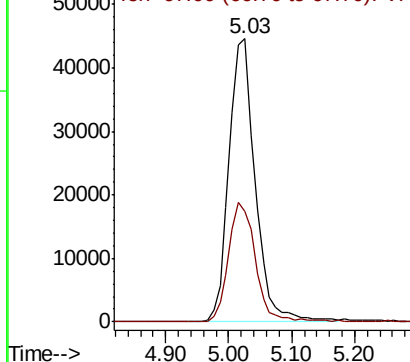
Ion Ratio Lower Upper

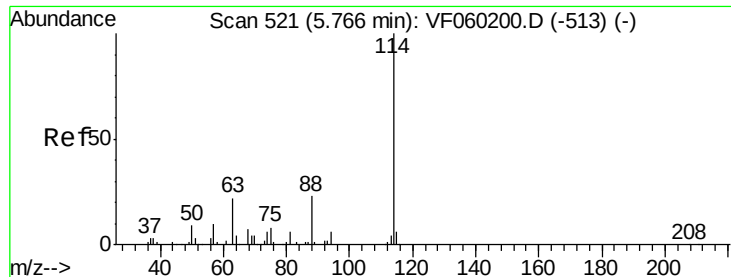
65 100

67 38.9 0.0 87.2



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

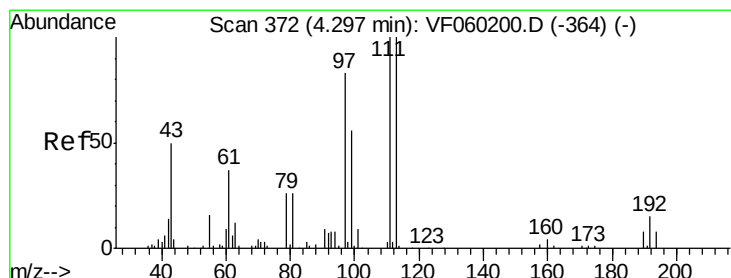
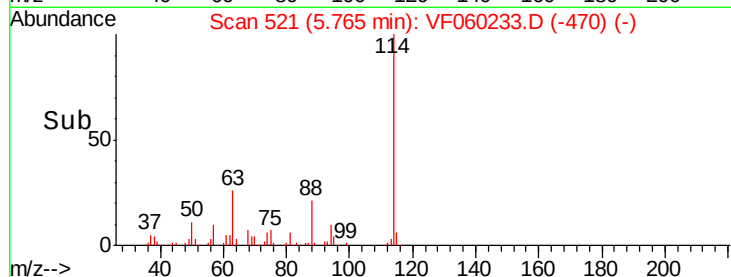
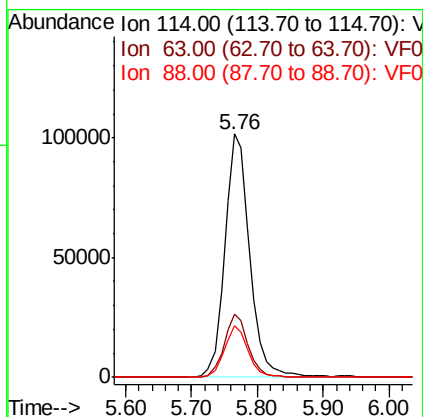
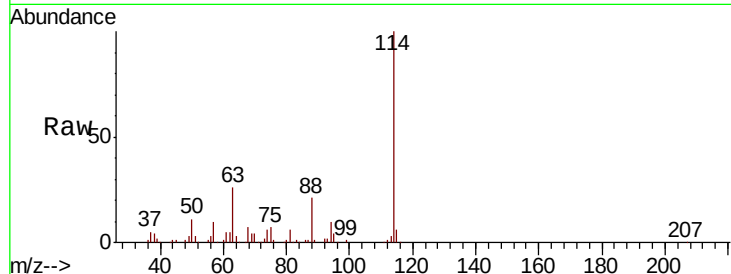




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.76 min Scan# 521
 Delta R.T. -0.00 min
 Lab File: VF060233.D
 Acq: 10 Sep 2018 14:30

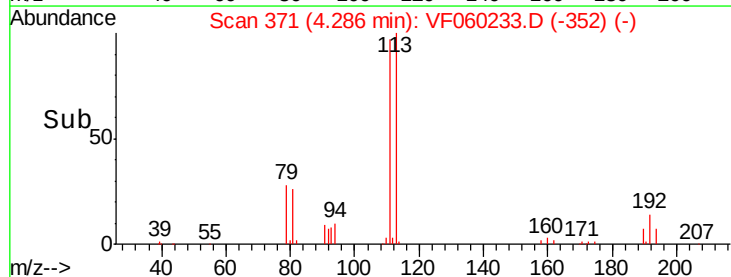
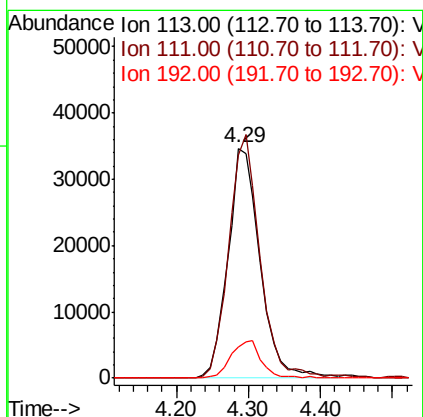
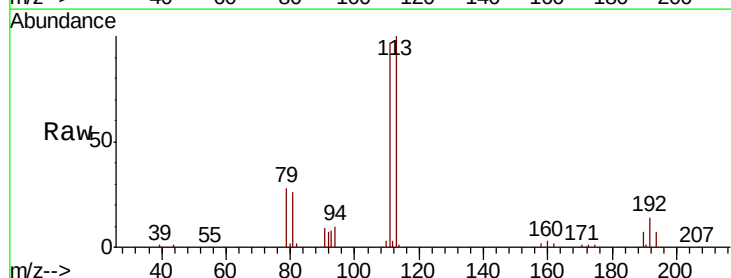
Instrument :
 MSVOA_F
 ClientSampled :
 EP1-Q2-G7

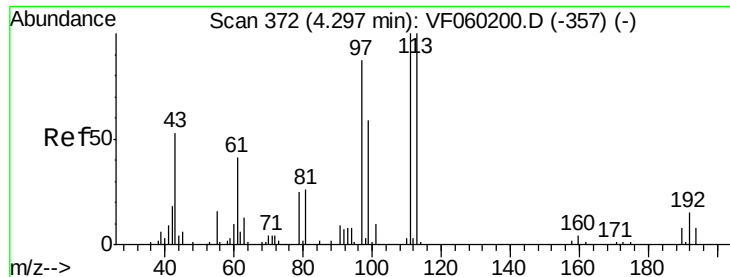
Tot Ion:	114	Resp:	269092
Ion	Ratio	Lower	Upper
114	100		
63	25.8	0.0	45.6
88	20.9	0.0	46.4



#35
 Dibromofluoromethane
 Concen: 40.85 ug/l
 RT: 4.29 min Scan# 371
 Delta R.T. -0.01 min
 Lab File: VF060233.D
 Acq: 10 Sep 2018 14:30

Tgt Ion:	113	Resp:	107682
Ion	Ratio	Lower	Upper
113	100		
111	97.2	80.2	120.2
192	13.6	11.8	17.8





#37

Ethyl Acetate

Concen: Below Cal

RT: 4.31 min Scan# 373

Delta R.T. 0.01 min

Lab File: VF060233.D

Acq: 10 Sep 2018 14:30

Instrument :

MSVOA_F

ClientSampleId :

EP1-Q2-G7

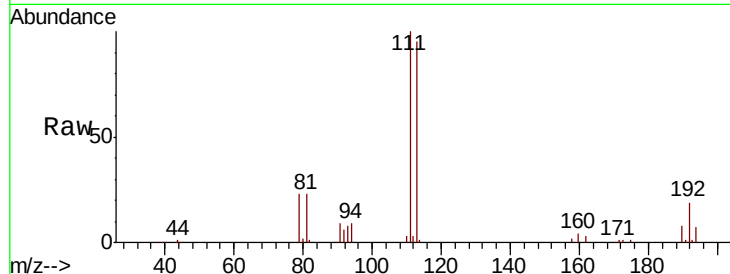
Tot Ion: 43 Resp: 156

Ion Ratio Lower Upper

43 100

61 0.0 61.6 92.4#

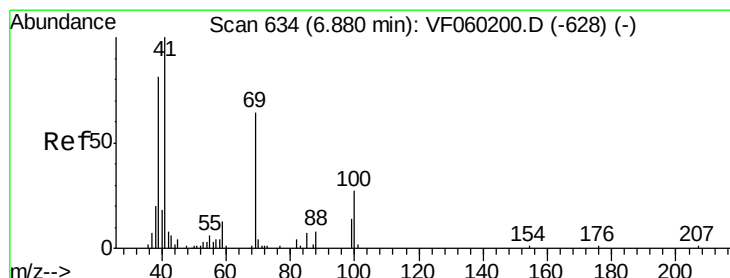
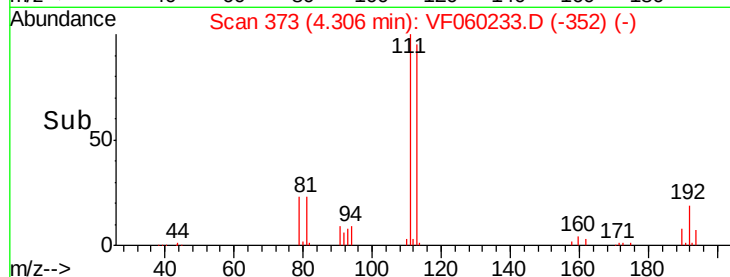
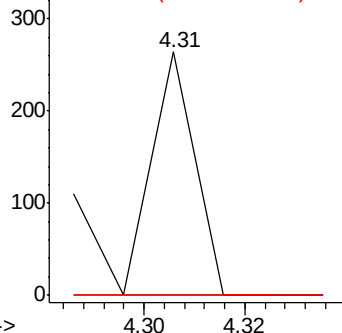
70 0.0 6.9 10.3#



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



#49

1,4-Dioxane

Concen: 3.49 ug/l

RT: 6.44 min Scan# 590

Delta R.T. -0.43 min

Lab File: VF060233.D

Acq: 10 Sep 2018 14:30

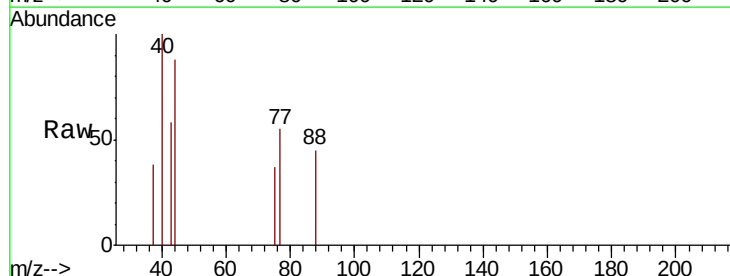
Tgt Ion: 88 Resp: 75

Ion Ratio Lower Upper

88 100

43 130.2 68.1 102.1#

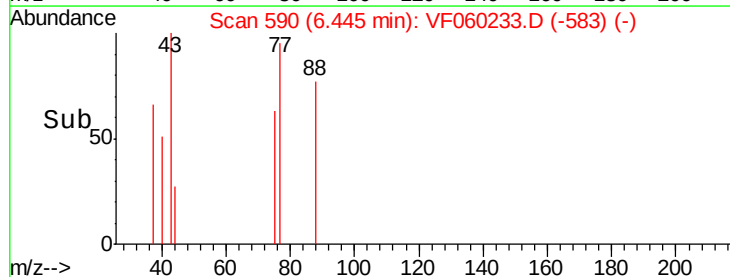
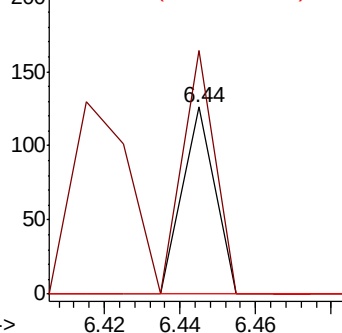
58 0.0 38.1 57.1#

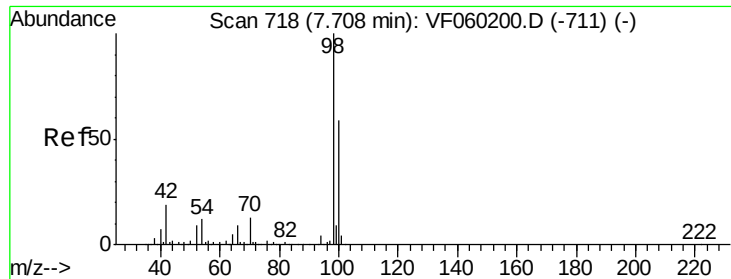


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

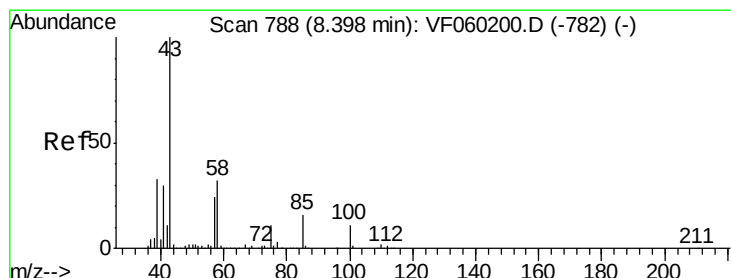
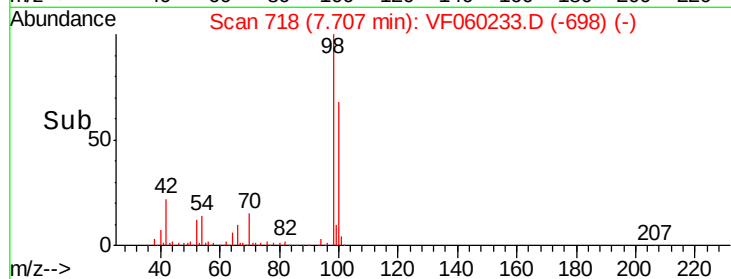
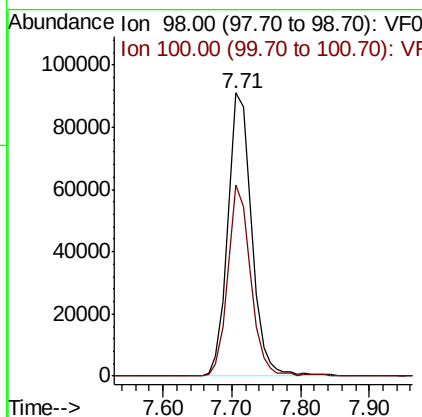
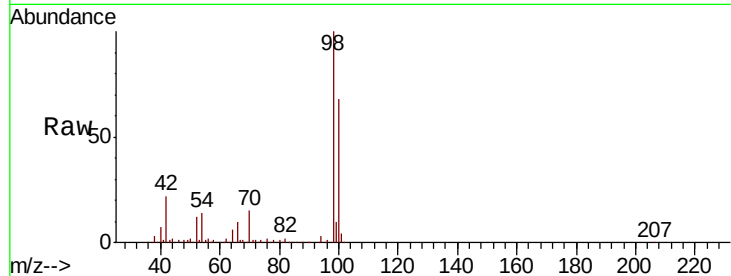




#50
Toluene-d8
Concen: 33.41 ug/l
RT: 7.71 min Scan# 718
Delta R.T. -0.00 min
Lab File: VF060233.D
Acq: 10 Sep 2018 14:30

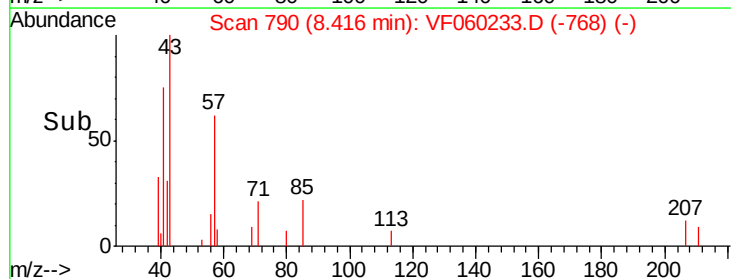
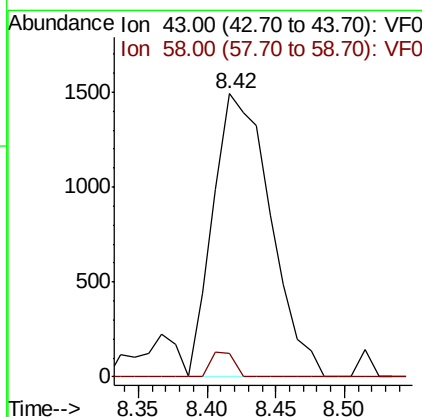
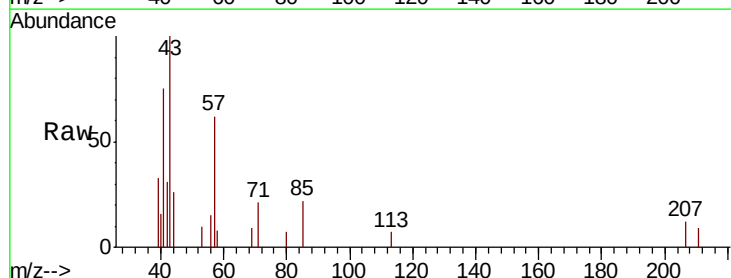
Instrument :
MSVOA_F
ClientSampleId :
EP1-Q2-G7

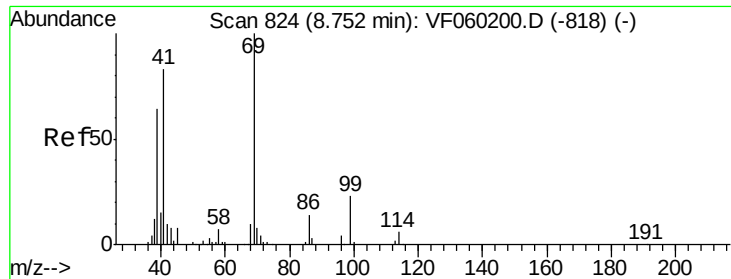
Tot Ion: 98 Resp: 219777
Ion Ratio Lower Upper
98 100
100 67.6 47.4 71.0



#51
4-Methyl-2-Pentanone
Concen: 2.64 ug/l
RT: 8.42 min Scan# 790
Delta R.T. 0.02 min
Lab File: VF060233.D
Acq: 10 Sep 2018 14:30

Tgt Ion: 43 Resp: 4325
Ion Ratio Lower Upper
43 100
58 8.3 25.8 38.6#





#56

Ethyl methacrylate

Concen: 9.46 ug/l

RT: 8.77 min Scan# 826

Delta R.T. 0.02 min

Lab File: VF060233.D

Acq: 10 Sep 2018 14:30

Instrument :

MSVOA_F

ClientSampleId :

EP1-Q2-G7

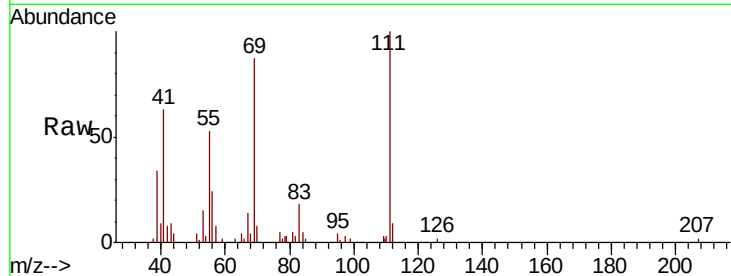
Tot Ion: 69 Resp: 17377

Ion Ratio Lower Upper

69 100

41 72.0 66.6 100.0

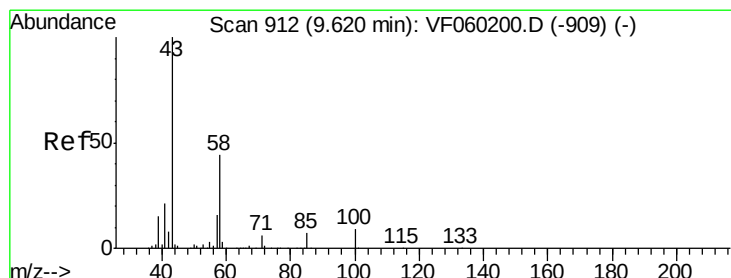
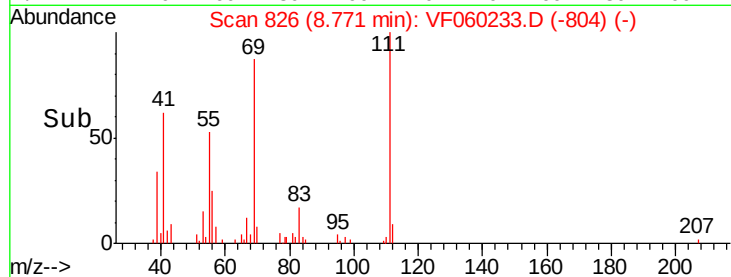
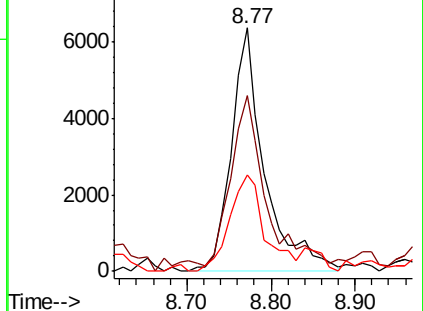
39 39.7 51.5 77.3#



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



#59

2-Hexanone

Concen: 1.05 ug/l

RT: 9.64 min Scan# 914

Delta R.T. 0.02 min

Lab File: VF060233.D

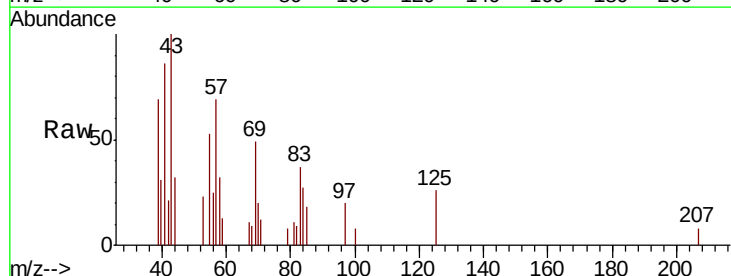
Acq: 10 Sep 2018 14:30

Tgt Ion: 43 Resp: 2721

Ion Ratio Lower Upper

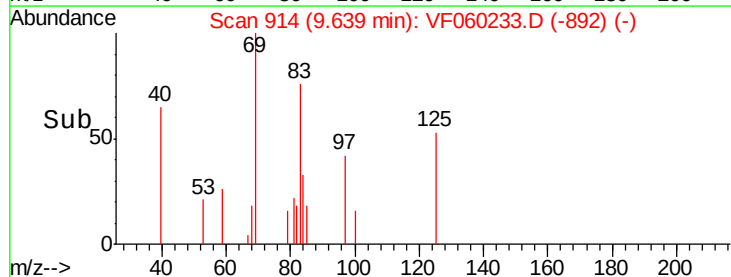
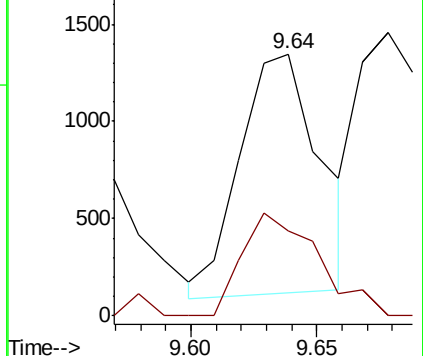
43 100

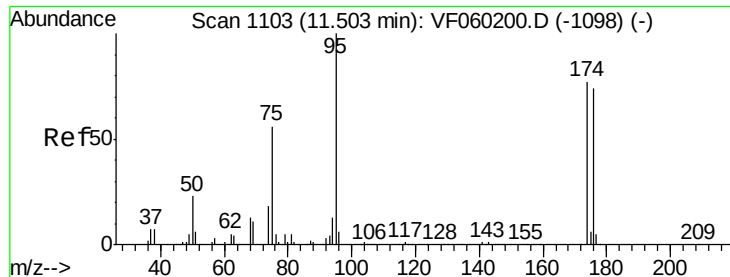
58 32.4 20.8 62.5



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

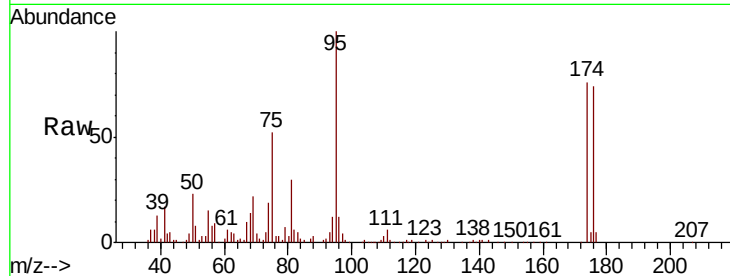




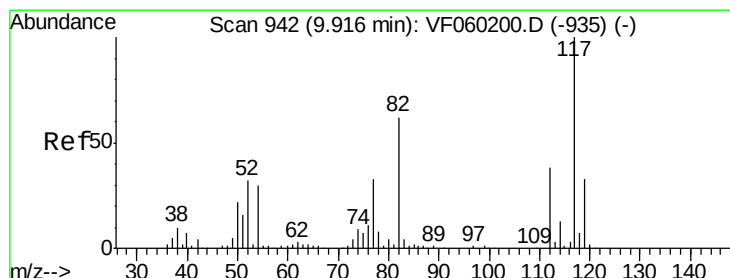
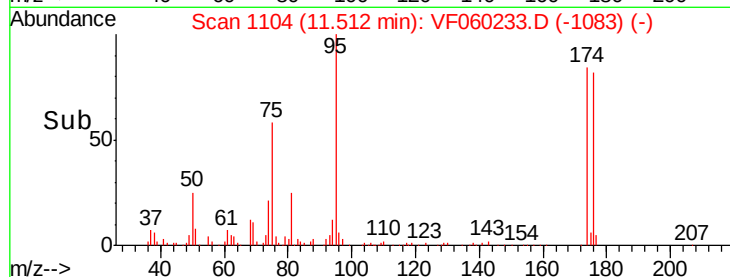
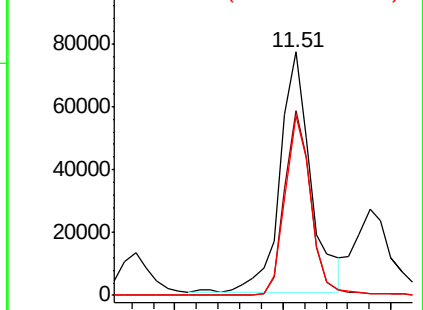
#62
4-Bromofluorobenzene
Concen: 41.13 ug/l
RT: 11.51 min Scan# 1104
Delta R.T. 0.01 min
Lab File: VF060233.D
Acq: 10 Sep 2018 14:30

Instrument :
MSVOA_F
ClientSampleId :
EP1-Q2-G7

Tot Ion: 95 Resp: 152658
Ion Ratio Lower Upper
95 100
174 75.9 0.0 153.2
176 74.0 0.0 147.2

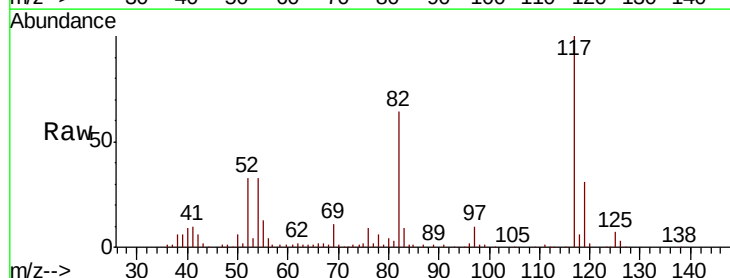


Abundance Ion 95.00 (94.70 to 95.70): VF0
Ion 174.00 (173.70 to 174.70): V
Ion 176.00 (175.70 to 176.70): V

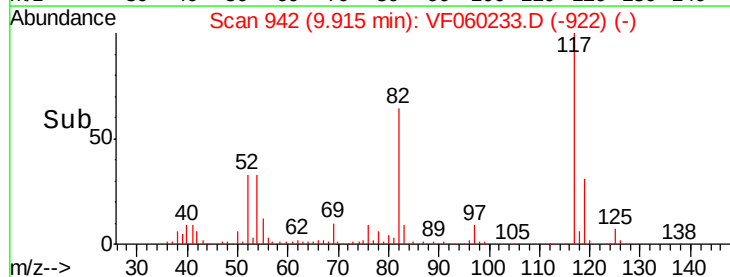
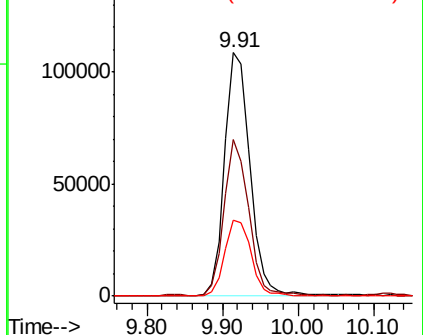


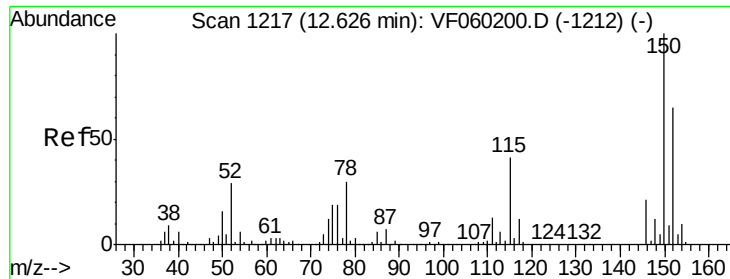
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.91 min Scan# 942
Delta R.T. -0.00 min
Lab File: VF060233.D
Acq: 10 Sep 2018 14:30

Tgt Ion: 117 Resp: 254119
Ion Ratio Lower Upper
117 100
82 64.3 49.3 73.9
119 31.4 26.5 39.7



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: 50.00 ug/l

RT: 12.64 min Scan# 1218

Delta R.T. 0.01 min

Lab File: VF060233.D

Acq: 10 Sep 2018 14:30

Instrument :

MSVOA_F

ClientSampleId :

EP1-Q2-G7

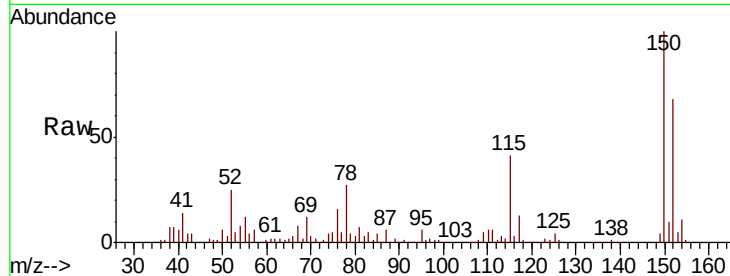
Tot Ion:152 Resp: 161609

Ion Ratio Lower Upper

152 100

115 60.7 31.5 94.5

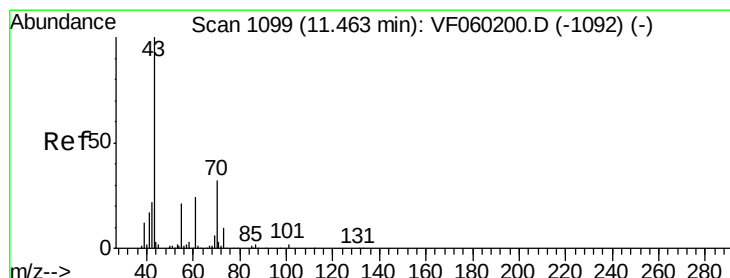
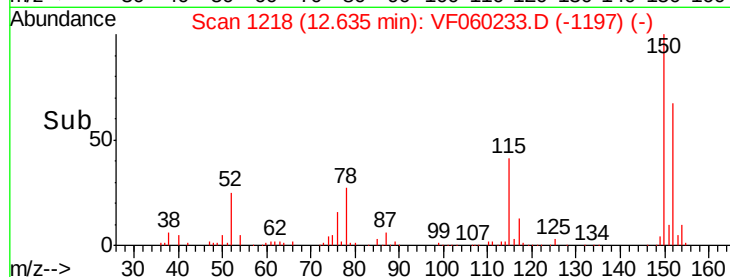
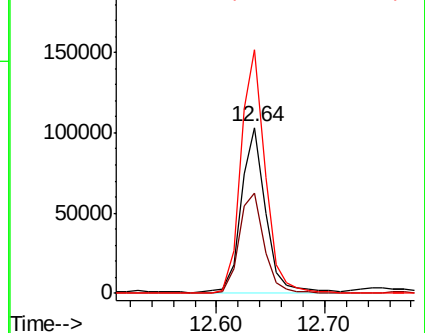
150 147.0 0.0 310.4



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-amil acetate

Concen: 10.46 ug/l

RT: 11.48 min Scan# 1101

Delta R.T. 0.02 min

Lab File: VF060233.D

Acq: 10 Sep 2018 14:30

Tgt Ion: 43 Resp: 13908

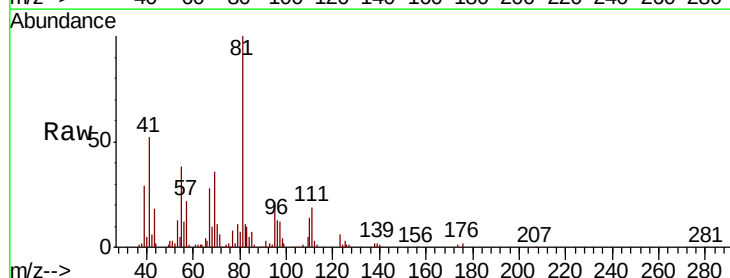
Ion Ratio Lower Upper

43 100

70 58.0 25.8 38.6#

55 207.1 16.8 25.2#

61 3.2 18.9 28.3#

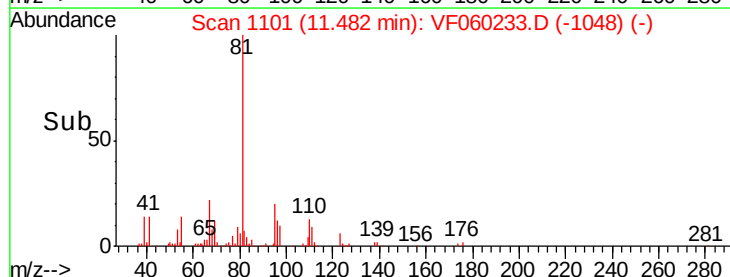
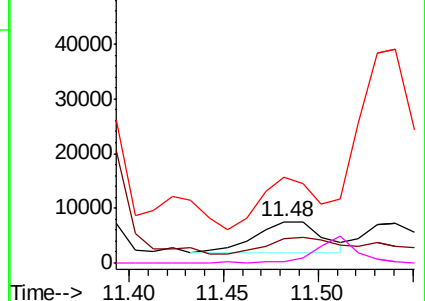


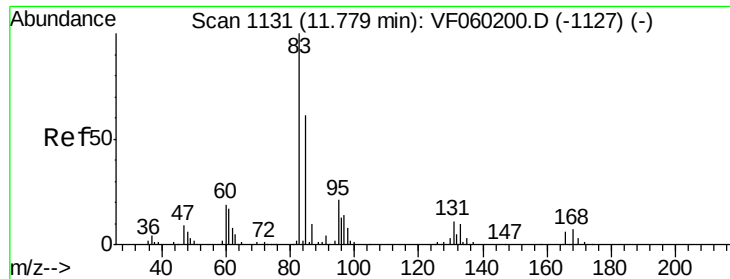
Abundance Ion 43.00 (42.70 to 43.70): VF0

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





#75

1,1,2,2-Tetrachloroethane

Concen: 35.33 ug/l

RT: 11.77 min Scan# 1130

Delta R.T. -0.01 min

Lab File: VF060233.D

Acq: 10 Sep 2018 14:30

Instrument :

MSVOA_F

ClientSampleId :

EP1-Q2-G7

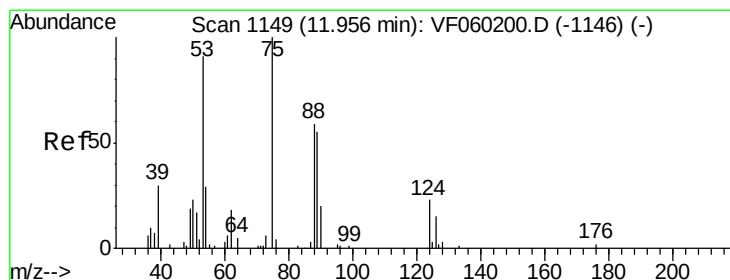
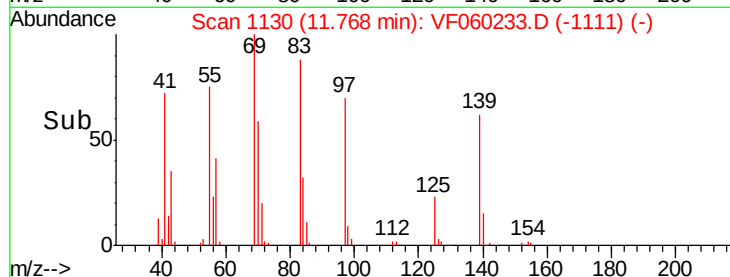
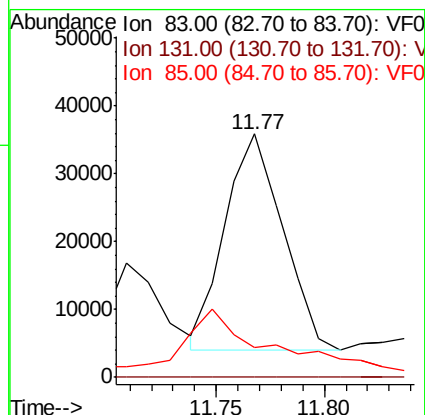
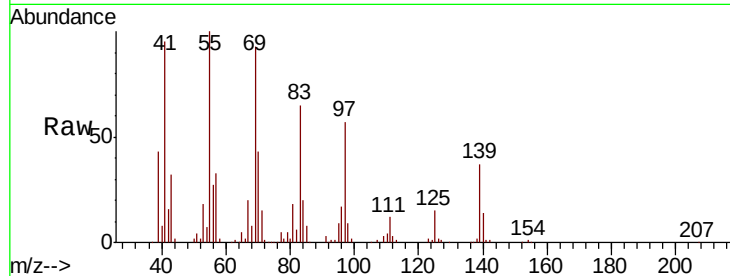
Tot Ion: 83 Resp: 59230

Ion Ratio Lower Upper

83 100

131 0.0 5.5 16.4#

85 12.1 31.1 93.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 3.36 ug/l

RT: 11.96 min Scan# 1150

Delta R.T. 0.01 min

Lab File: VF060233.D

Acq: 10 Sep 2018 14:30

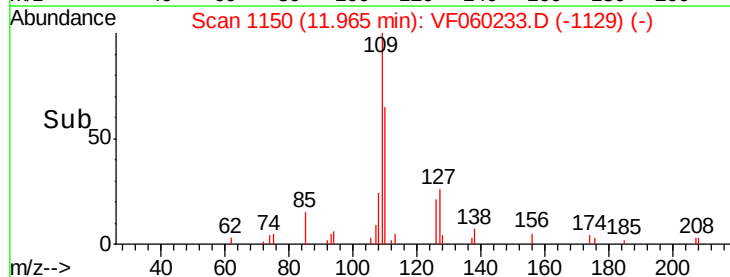
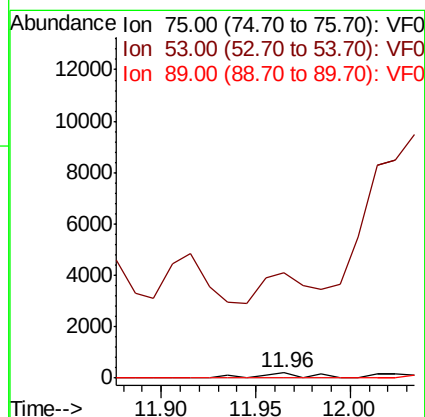
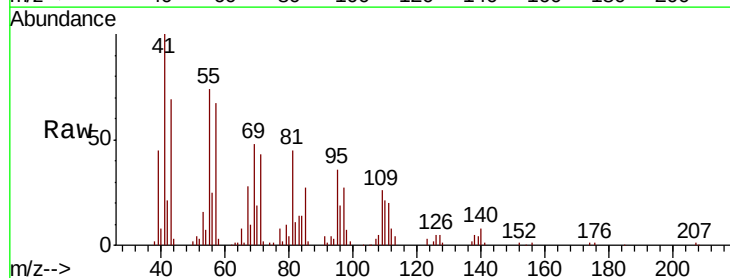
Tgt Ion: 75 Resp: 359

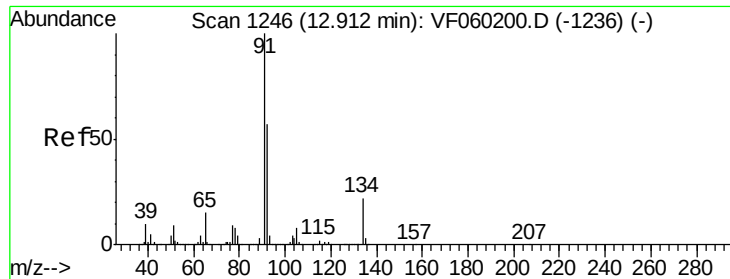
Ion Ratio Lower Upper

75 100

53 1968.8 76.5 114.7#

89 0.0 46.5 69.7#

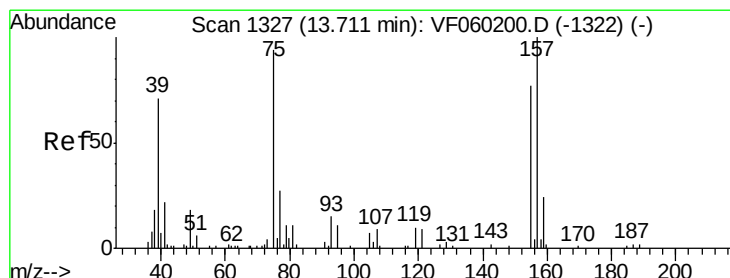
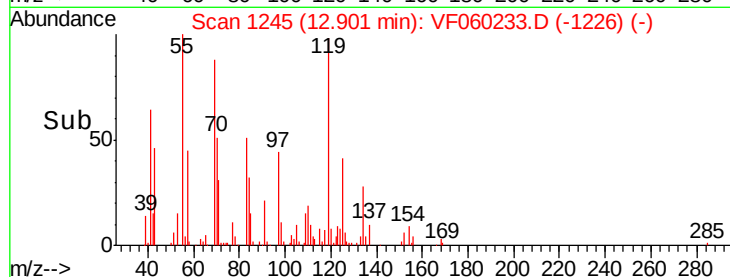
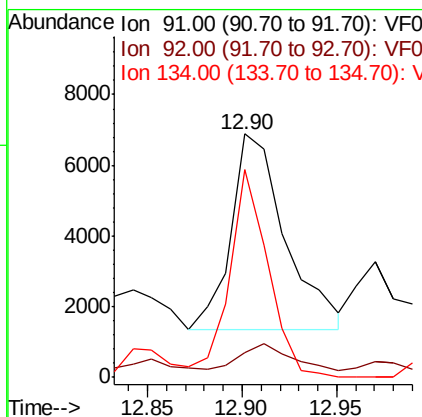
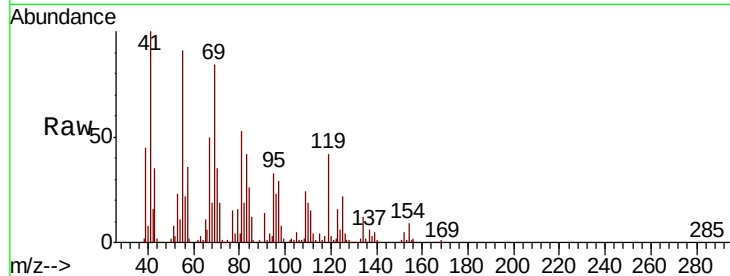




#89
n-Butylbenzene
Concen: 1.04 ug/l
RT: 12.90 min Scan# 1245
Delta R.T. -0.01 min
Lab File: VF060233.D
Acq: 10 Sep 2018 14:30

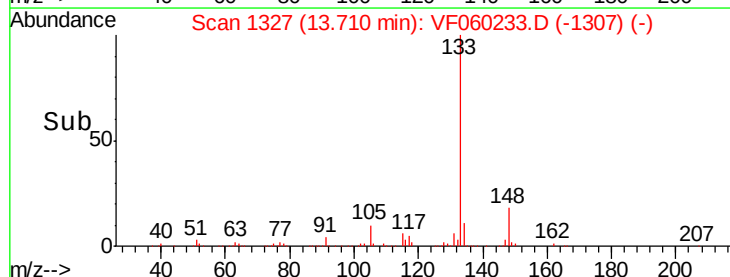
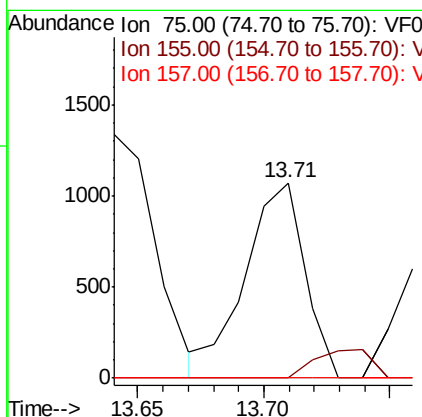
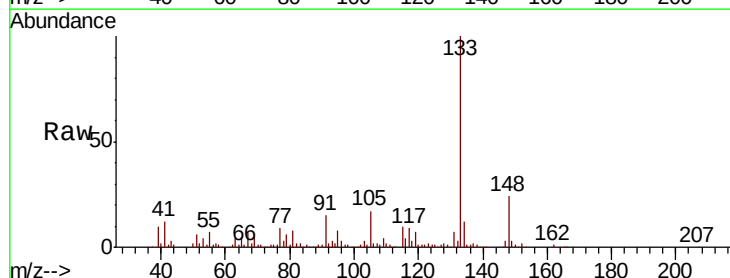
Instrument :
MSVOA_F
ClientSampled :
EP1-Q2-G7

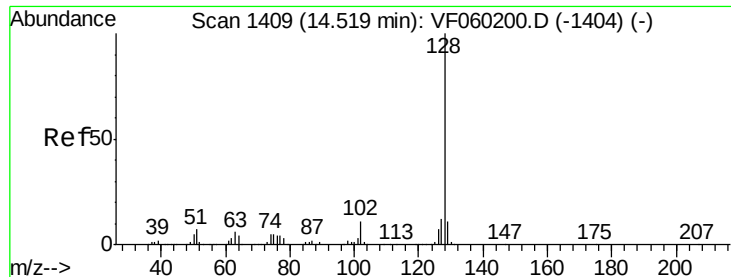
Tot Ion: 91 Resp: 11001
Ion Ratio Lower Upper
91 100
92 10.4 28.4 85.3#
134 85.3 11.1 33.3#



#92
1,2-Dibromo-3-Chloropropane
Concen: 4.15 ug/l
RT: 13.71 min Scan# 1327
Delta R.T. -0.00 min
Lab File: VF060233.D
Acq: 10 Sep 2018 14:30

Tgt Ion: 75 Resp: 1776
Ion Ratio Lower Upper
75 100
155 0.0 40.8 122.5#
157 0.0 53.3 159.9#





#95
Naphthalene
Concen: 3.41 ug/l
RT: 14.52 min Scan# 1409
Delta R.T. -0.00 min
Lab File: VF060233.D
Acq: 10 Sep 2018 14:30

Instrument :
MSVOA_F
ClientSampleId :
EP1-Q2-G7

Tot Ion:128 Resp: 5145
Ion Ratio Lower Upper
128 100
127 31.1 9.9 14.9#
129 44.9 8.9 13.3#

