

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF091018\
 Data File : VF060247.D
 Acq On : 10 Sep 2018 20:55
 Operator : VA/AP
 Sample : J4775-01RE
 Misc : 6.57/5mL/MSVOA F/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 OR-02-090618-A

Quant Time: Sep 11 07:19:54 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	176747	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.78	114	258109	50.00	ug/l	0.01
63) Chlorobenzene-d5	9.93	117	249212	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.64	152	132137	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.03	65	118373	38.34	ug/l	0.01
Spiked Amount			Recovery	=	76.68%	
35) Dibromofluoromethane	4.30	113	99650	39.41	ug/l	0.00
Spiked Amount			Recovery	=	78.82%	
50) Toluene-d8	7.72	98	232775	36.89	ug/l	0.01
Spiked Amount			Recovery	=	73.78%	
62) 4-Bromofluorobenzene	11.51	95	119490	33.56	ug/l	0.01
Spiked Amount			Recovery	=	67.12%	

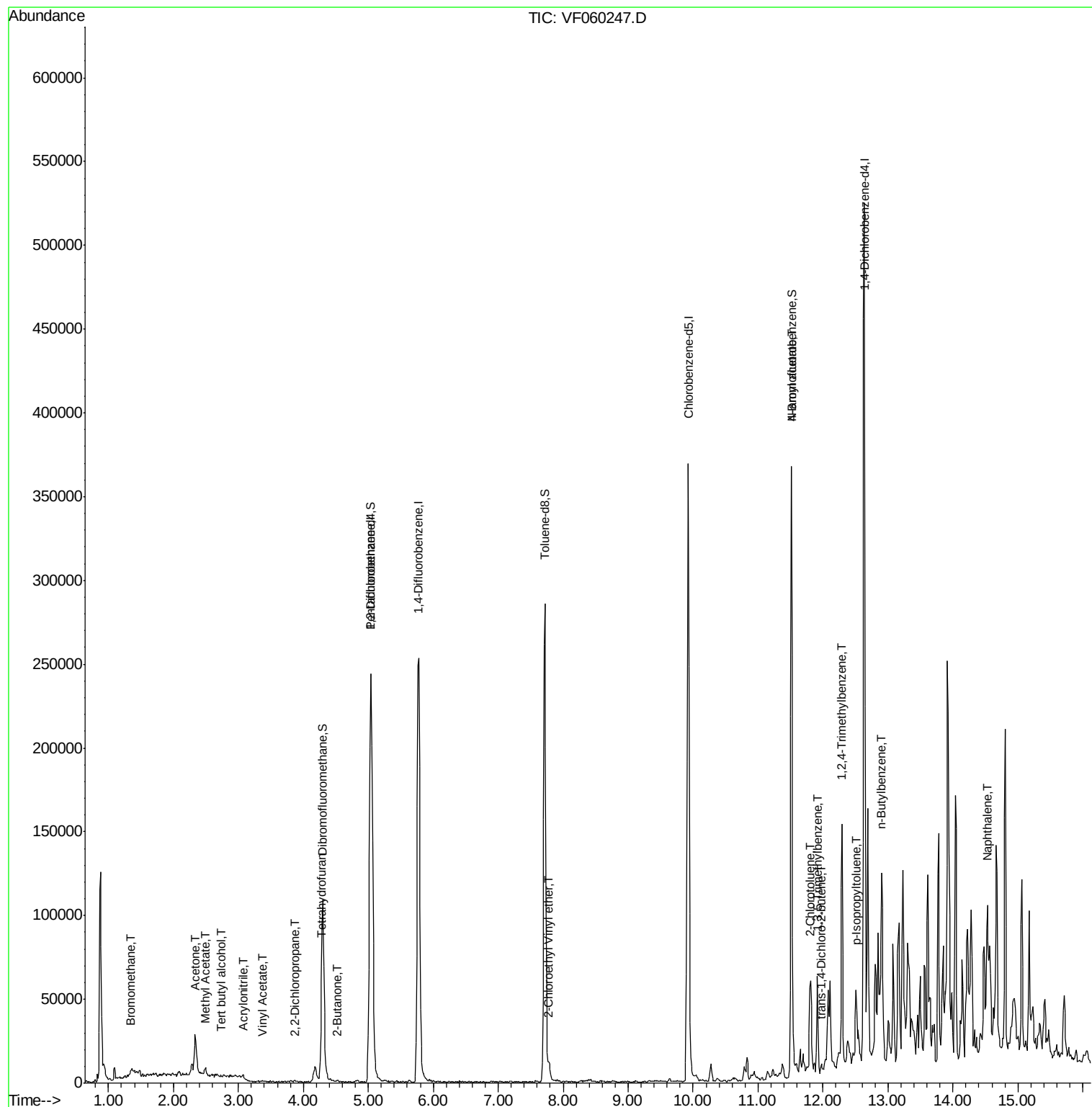
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.33	94	1292	1.05	ug/l #	46
11) Tert butyl alcohol	2.75	59	63	12.84	ug/l #	75
13) Acrolein	2.08	56	243	Below Cal	#	76
15) Acrylonitrile	3.07	53	298	1.27	ug/l #	69
16) Acetone	2.34	43	40127	54.99	ug/l #	93
18) Methyl Acetate	2.48	43	4513	4.33	ug/l	94
20) Methylene Chloride	2.29	84	3329	Below Cal	#	89
23) Vinyl Acetate	3.38	43	88	22.84	ug/l #	82
25) 2-Butanone	4.51	43	1058	1.22	ug/l #	59
26) 2,2-Dichloropropane	3.86	77	73	2.05	ug/l #	64
29) Tetrahydrofuran	4.27	42	422	1.47	ug/l #	40
37) Ethyl Acetate	4.34	43	121	Below Cal	#	17
58) 2-Chloroethyl Vinyl ether	7.78	63	759	4.00	ug/l	100
74) N-amyl acetate	11.50	43	1342	5.46	ug/l #	1
79) 2-Chlorotoluene	11.81	91	6714	1.02	ug/l #	53
80) 1,3,5-Trimethylbenzene	11.92	105	29709	3.69	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.98	75	128	2.90	ug/l #	70
84) 1,2,4-Trimethylbenzene	12.29	105	67877	8.30	ug/l	99
86) p-Isopropyltoluene	12.51	119	25372	2.82	ug/l	93
89) n-Butylbenzene	12.91	91	20001	2.30	ug/l #	38
95) Naphthalene	14.52	128	14333	5.33	ug/l #	77

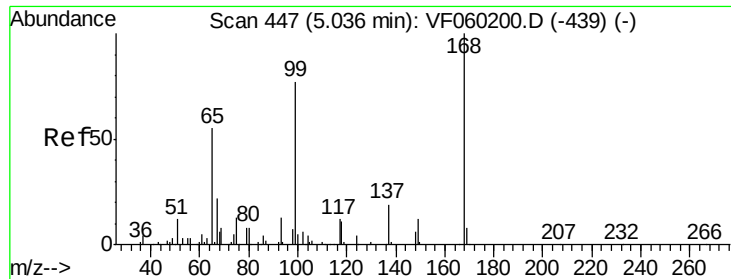
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.05 min Scan# 448

Delta R.T. 0.01 min

Lab File: VF060247.D

Acq: 10 Sep 2018 20:55

Instrument :

MSVOA_F

ClientSampleId :

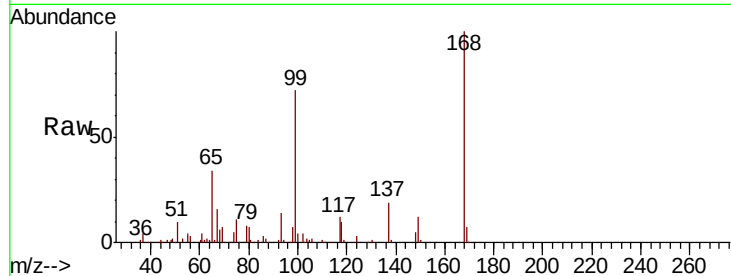
OR-02-090618-A

Tot Ion:168 Resp: 176747

Ion Ratio Lower Upper

168 100

99 72.2 61.8 92.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.05

60000

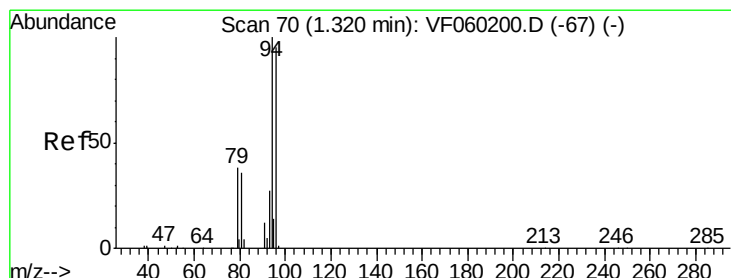
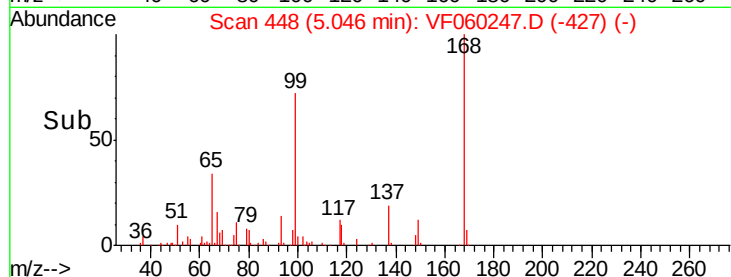
40000

20000

0

Time-->

4.90 5.00 5.10 5.20



#5

Bromomethane

Concen: 1.05 ug/l

RT: 1.33 min Scan# 71

Delta R.T. 0.01 min

Lab File: VF060247.D

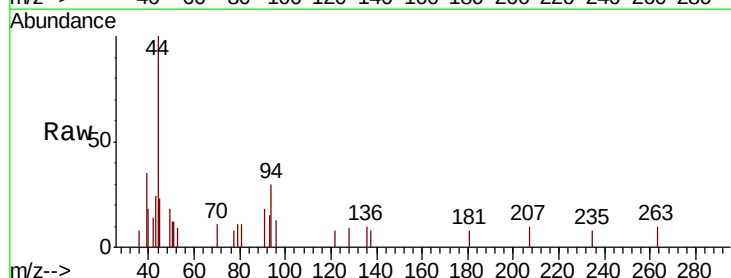
Acq: 10 Sep 2018 20:55

Tgt Ion: 94 Resp: 1292

Ion Ratio Lower Upper

94 100

96 42.4 75.8 113.6#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

1.33

400

300

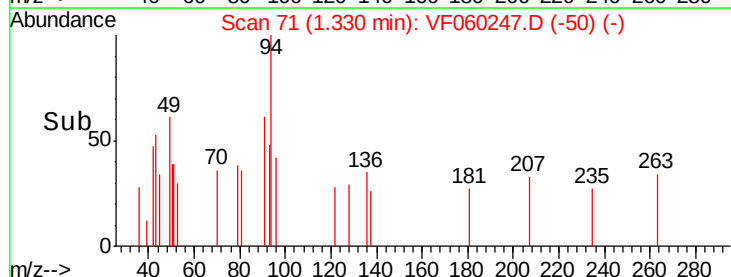
200

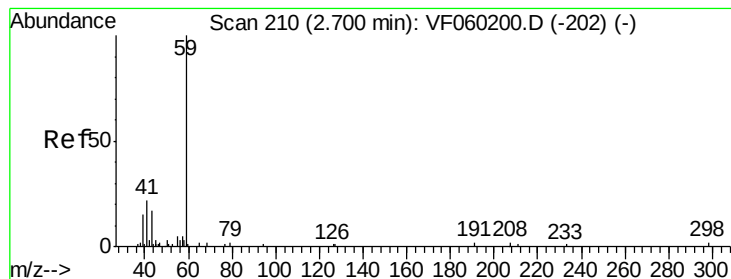
100

0

Time-->

1.20 1.30 1.40



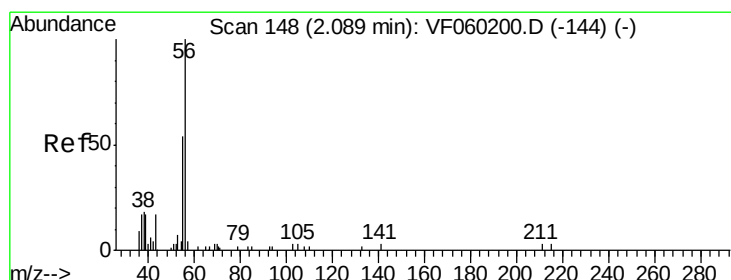
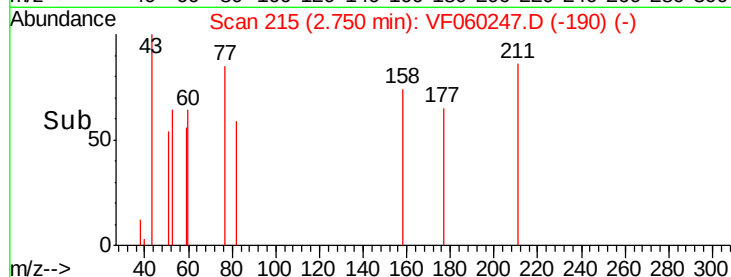
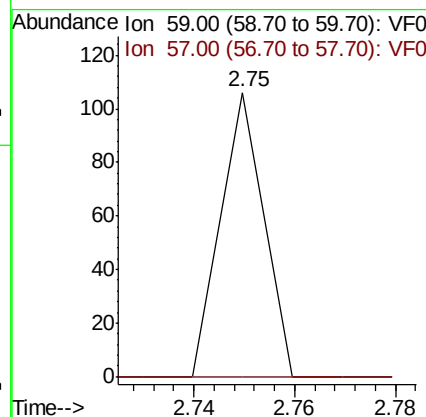
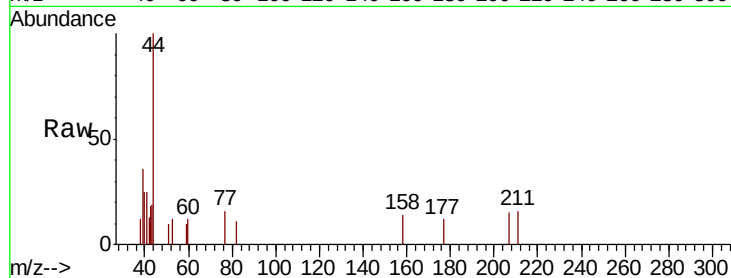


#11

Tert butyl alcohol
 Concen: 12.84 ug/l
 RT: 2.75 min Scan# 215
 Delta R.T. 0.05 min
 Lab File: VF060247.D
 Acq: 10 Sep 2018 20:55

Instrument :
 MSVOA_F
 ClientSampleId :
 OR-02-090618-A

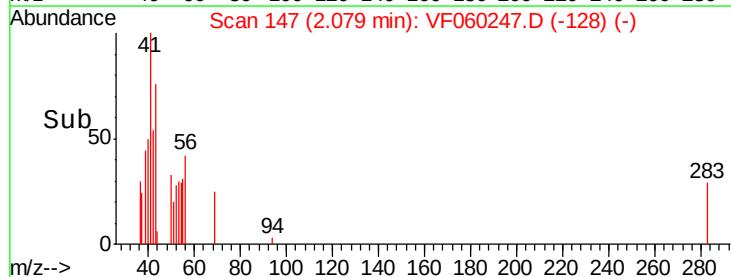
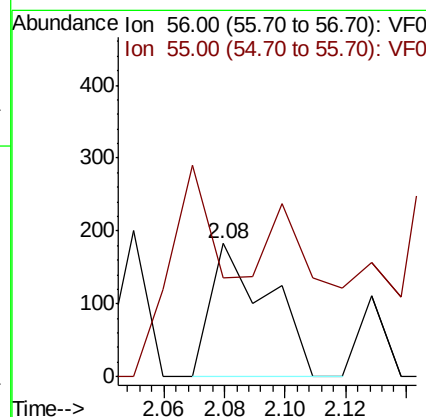
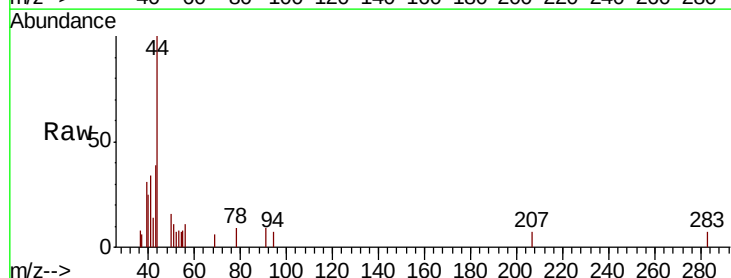
Tot Ion: 59 Resp: 63
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.2 10.8#

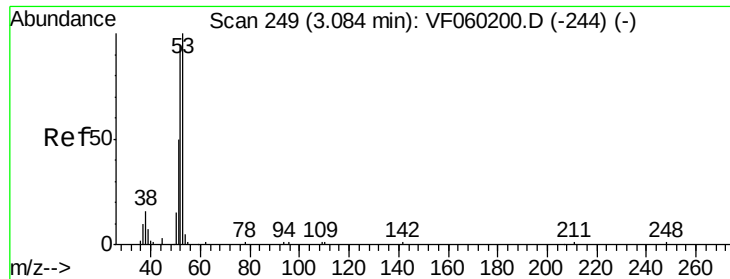


#13

Acrolein
 Concen: Below Cal
 RT: 2.08 min Scan# 147
 Delta R.T. -0.01 min
 Lab File: VF060247.D
 Acq: 10 Sep 2018 20:55

Tgt Ion: 56 Resp: 243
 Ion Ratio Lower Upper
 56 100
 55 73.8 45.1 67.7#





#15

Acrylonitrile

Concen: 1.27 ug/l

RT: 3.07 min Scan# 247

Delta R.T. -0.02 min

Lab File: VF060247.D

Acq: 10 Sep 2018 20:55

Instrument :

MSVOA_F

ClientSampleId :

OR-02-090618-A

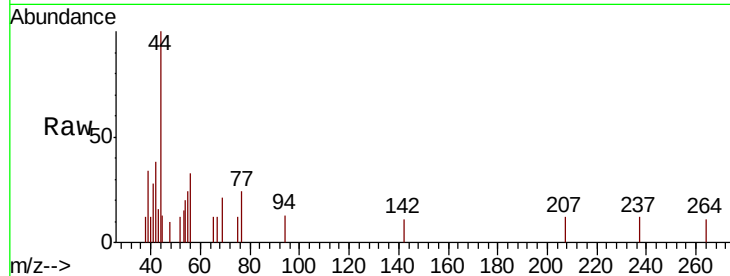
Tot Ion: 53 Resp: 298

Ion Ratio Lower Upper

53 100

52 84.5 75.0 112.6

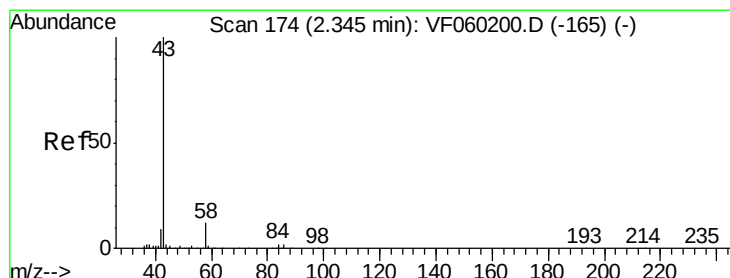
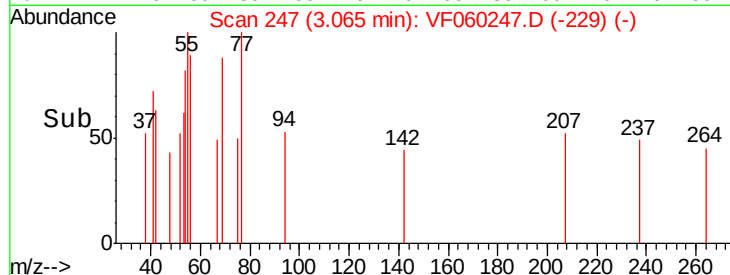
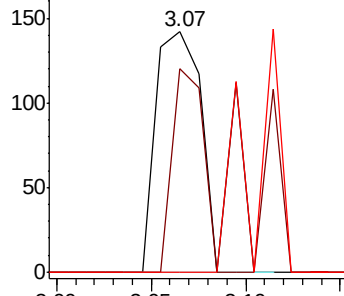
51 0.0 39.9 59.9#



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: 54.99 ug/l

RT: 2.34 min Scan# 173

Delta R.T. -0.01 min

Lab File: VF060247.D

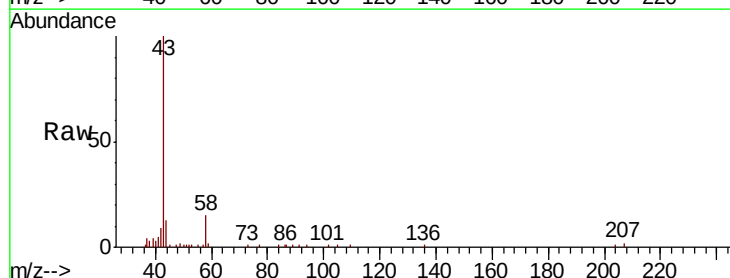
Acq: 10 Sep 2018 20:55

Tgt Ion: 43 Resp: 40127

Ion Ratio Lower Upper

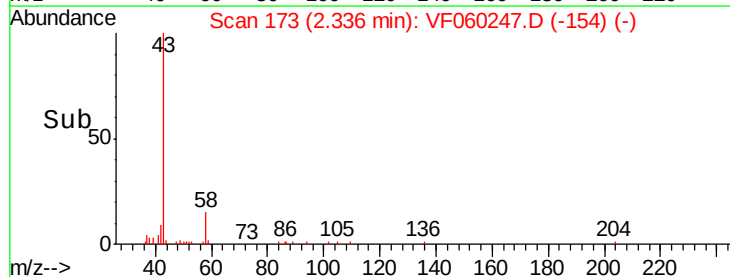
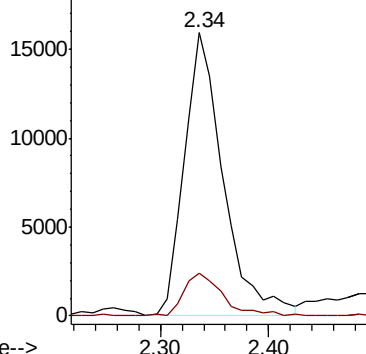
43 100

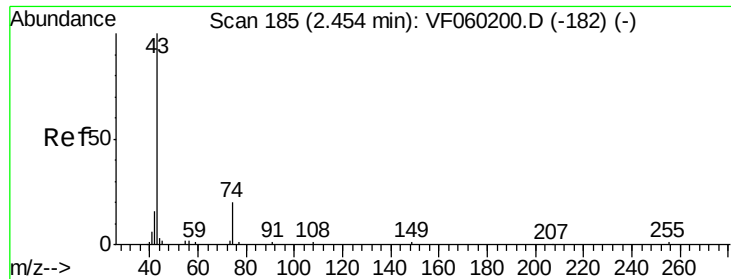
58 15.0 9.7 14.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

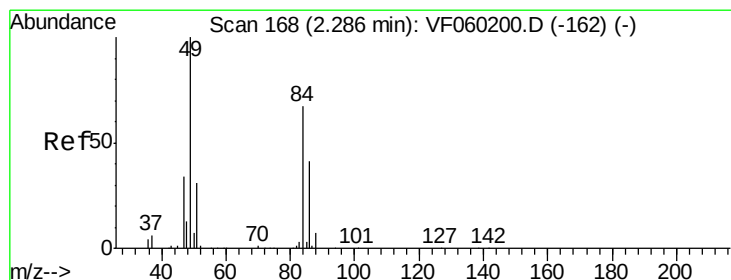
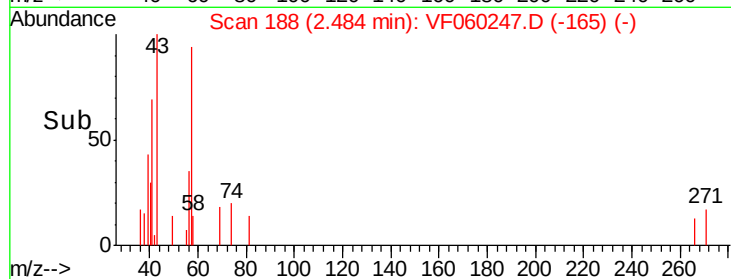
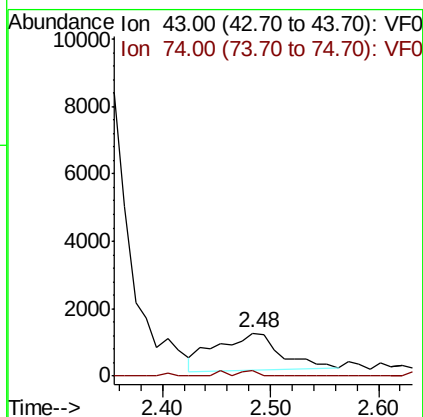
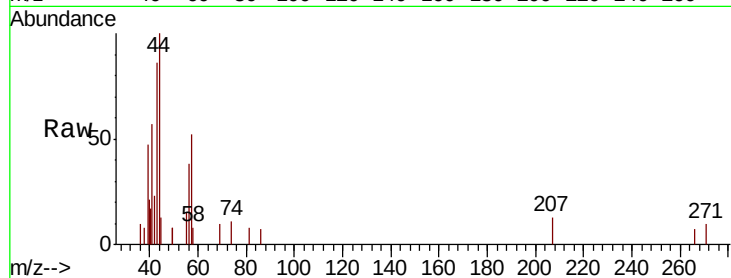




#18
Methyl Acetate
Concen: 4.33 ug/l
RT: 2.48 min Scan# 188
Delta R.T. 0.03 min
Lab File: VF060247.D
Acq: 10 Sep 2018 20:55

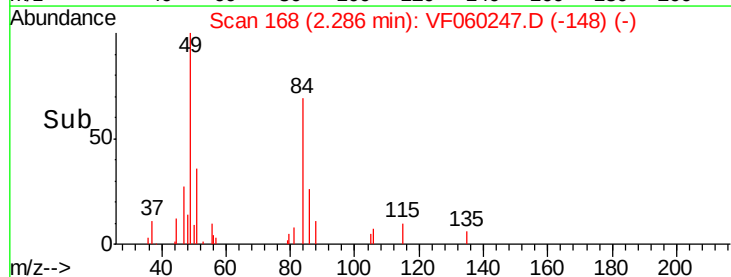
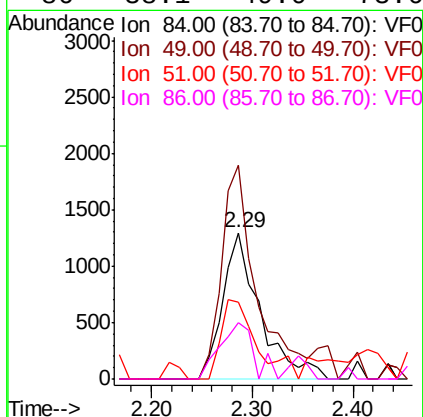
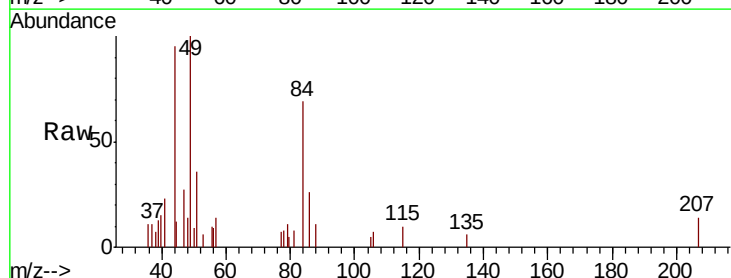
Instrument :
MSVOA_F
ClientSampleId :
OR-02-090618-A

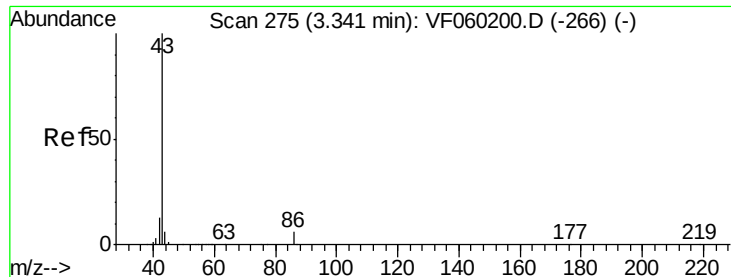
Tot Ion: 43 Resp: 4513
Ion Ratio Lower Upper
43 100
74 12.6 11.9 17.9



#20
Methylene Chloride
Concen: Below Cal
RT: 2.29 min Scan# 168
Delta R.T. 0.00 min
Lab File: VF060247.D
Acq: 10 Sep 2018 20:55

Tgt Ion: 84 Resp: 3329
Ion Ratio Lower Upper
84 100
49 146.0 120.1 180.1
51 52.3 37.0 55.6
86 38.1 49.0 73.6#





#23

Vinyl Acetate

Concen: 22.84 ug/l

RT: 3.38 min Scan# 279

Delta R.T. 0.04 min

Lab File: VF060247.D

Acq: 10 Sep 2018 20:55

Instrument :

MSVOA_F

ClientSampleId :

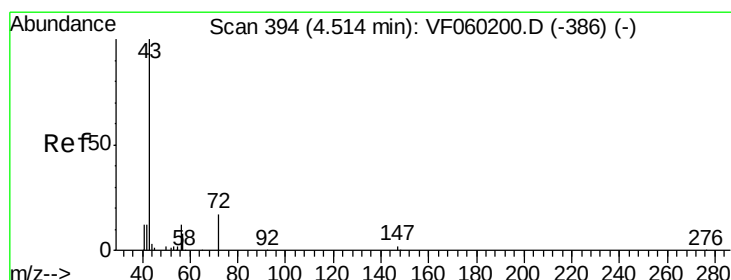
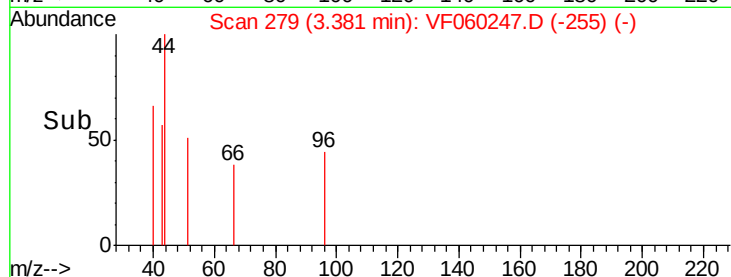
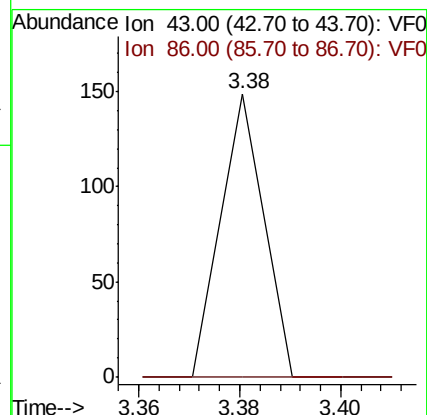
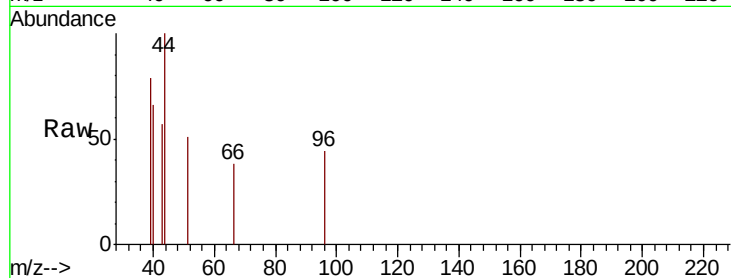
OR-02-090618-A

Tot Ion: 43 Resp: 88

Ion Ratio Lower Upper

43 100

86 0.0 4.8 7.2#



#25

2-Butanone

Concen: 1.22 ug/l

RT: 4.51 min Scan# 394

Delta R.T. 0.00 min

Lab File: VF060247.D

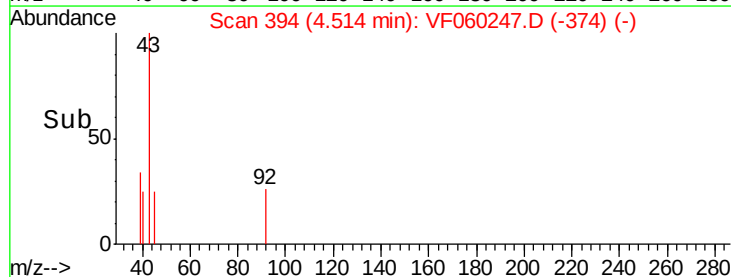
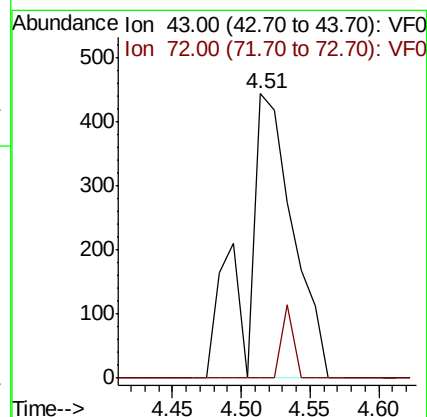
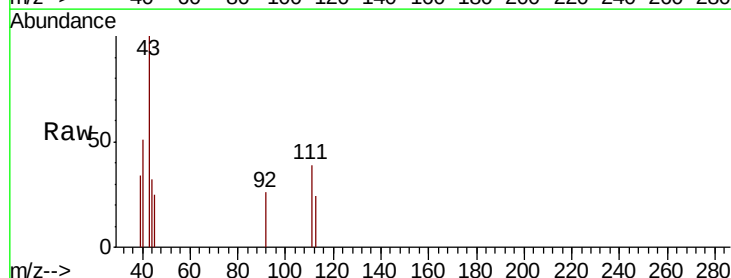
Acq: 10 Sep 2018 20:55

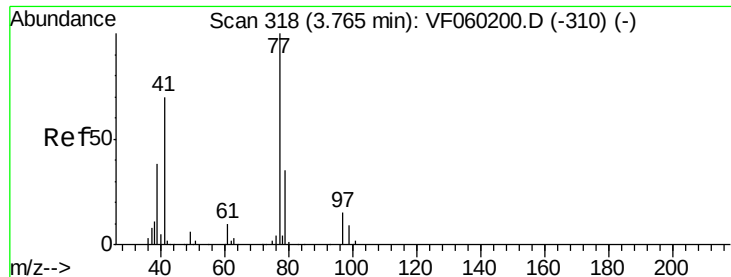
Tgt Ion: 43 Resp: 1058

Ion Ratio Lower Upper

43 100

72 0.0 14.8 22.2#





#26

2,2-Dichloropropane

Concen: 2.05 ug/l

RT: 3.86 min Scan# 328

Delta R.T. 0.10 min

Lab File: VF060247.D

Acq: 10 Sep 2018 20:55

Instrument :

MSVOA_F

ClientSampleId :

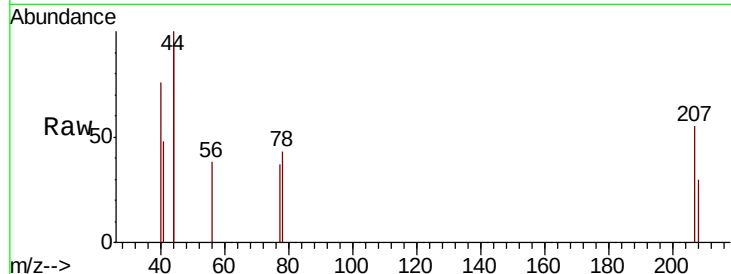
OR-02-090618-A

Tot Ion: 77 Resp: 73

Ion Ratio Lower Upper

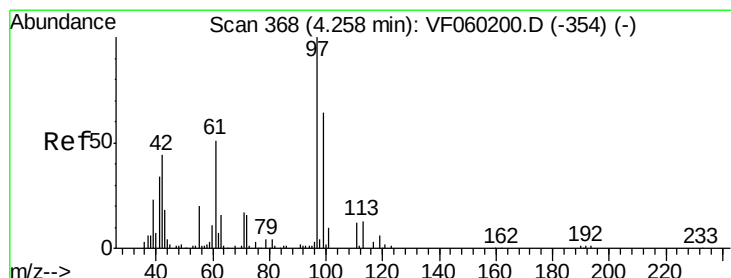
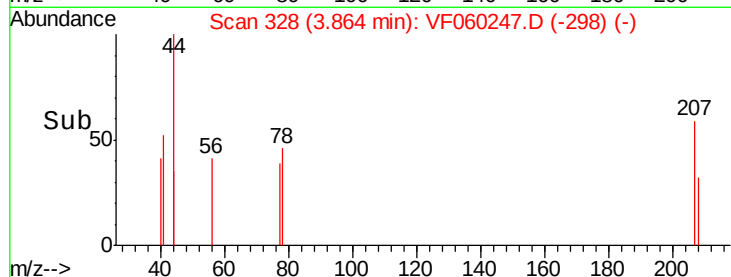
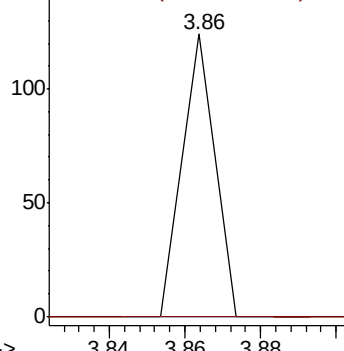
77 100

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: 1.47 ug/l

RT: 4.27 min Scan# 369

Delta R.T. 0.01 min

Lab File: VF060247.D

Acq: 10 Sep 2018 20:55

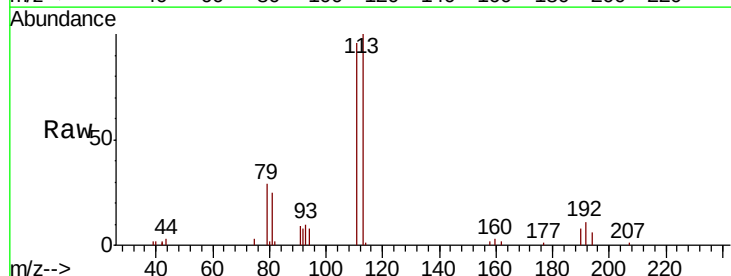
Tgt Ion: 42 Resp: 422

Ion Ratio Lower Upper

42 100

72 0.0 27.4 41.0#

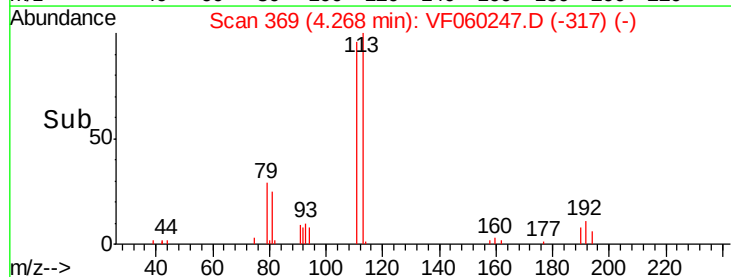
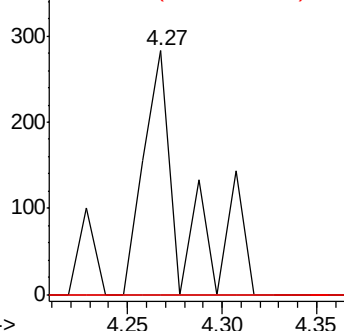
71 0.0 28.5 42.7#

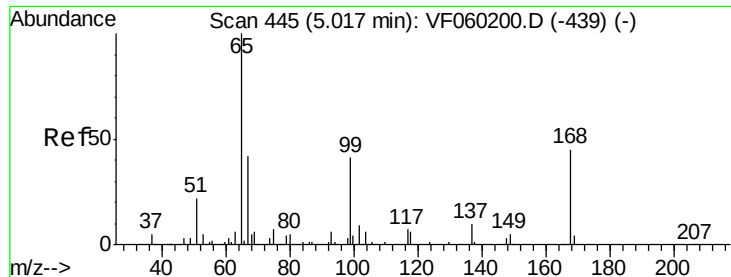


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0

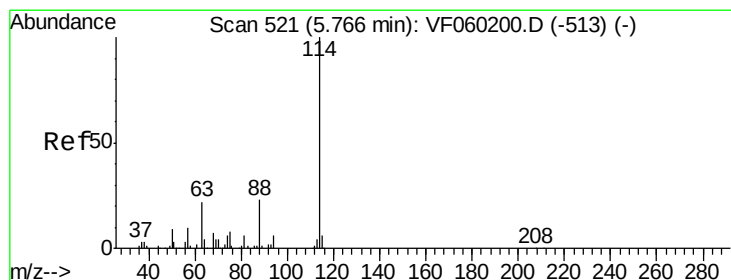
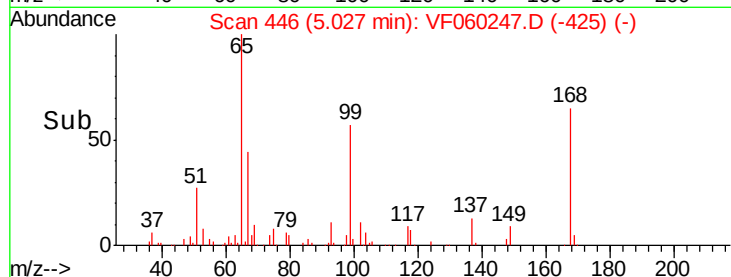
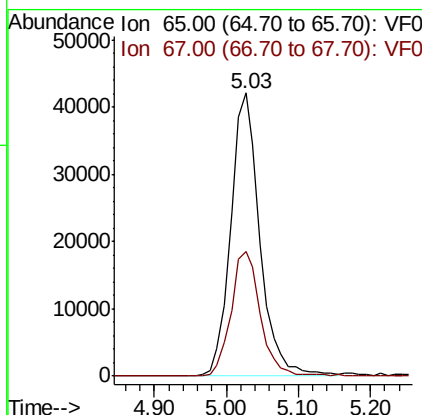
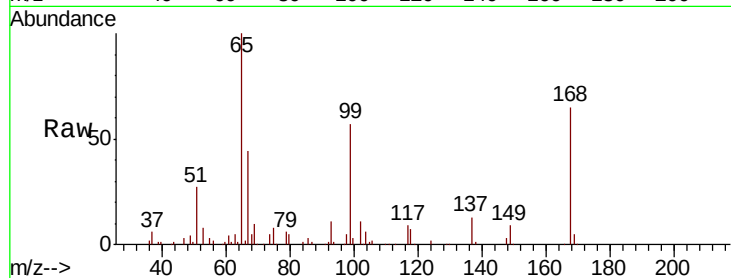




#33
 1,2-Dichloroethane-d4
 Concen: 38.34 ug/l
 RT: 5.03 min Scan# 446
 Delta R.T. 0.01 min
 Lab File: VF060247.D
 Acq: 10 Sep 2018 20:55

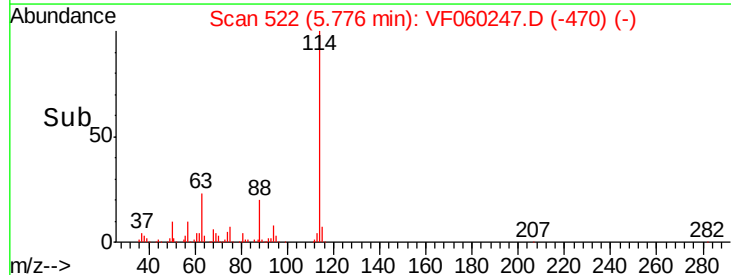
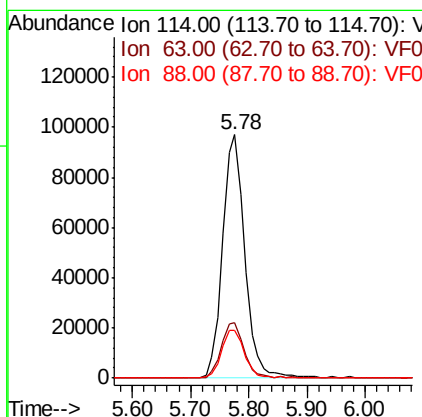
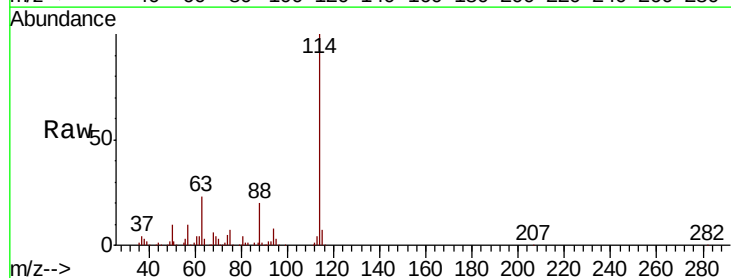
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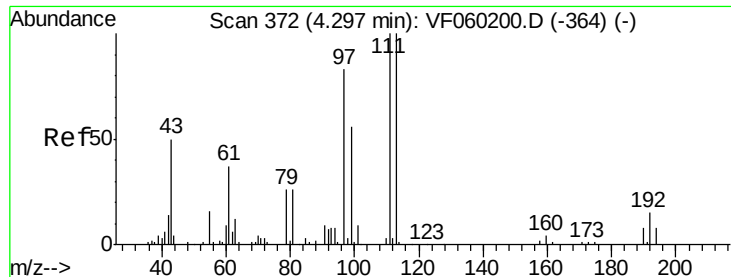
Tot Ion: 65 Resp: 118373
 Ion Ratio Lower Upper
 65 100
 67 44.1 0.0 87.2



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.78 min Scan# 522
 Delta R.T. 0.01 min
 Lab File: VF060247.D
 Acq: 10 Sep 2018 20:55

Tgt Ion: 114 Resp: 258109
 Ion Ratio Lower Upper
 114 100
 63 23.0 0.0 45.6
 88 19.9 0.0 46.4





#35

Dibromofluoromethane

Concen: 39.41 ug/l

RT: 4.30 min Scan# 372

Delta R.T. 0.00 min

Lab File: VF060247.D

Acq: 10 Sep 2018 20:55

Instrument :

MSVOA_F

ClientSampleId :

OR-02-090618-A

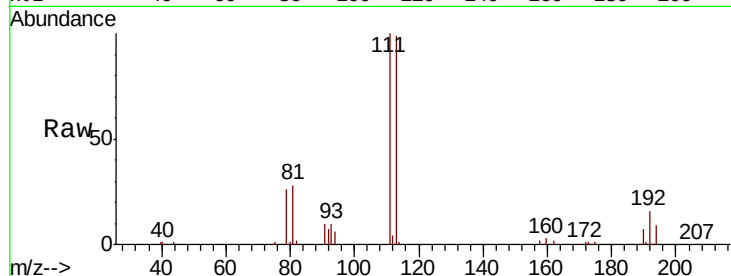
Tot Ion:113 Resp: 99650

Ion Ratio Lower Upper

113 100

111 100.9 80.2 120.2

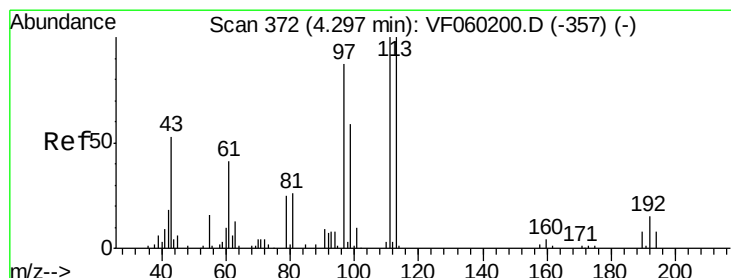
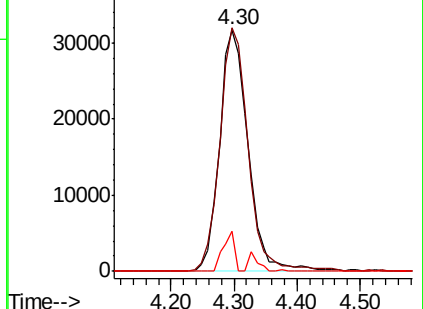
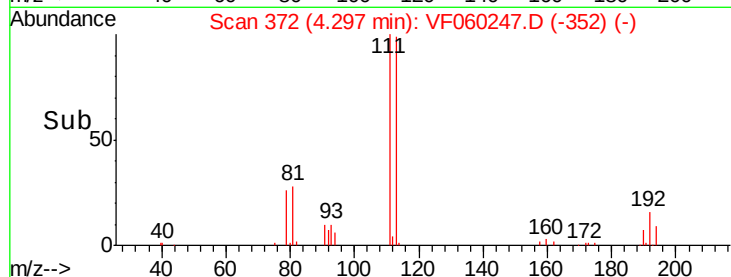
192 16.8 11.8 17.8



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: 4.34 min Scan# 376

Delta R.T. 0.04 min

Lab File: VF060247.D

Acq: 10 Sep 2018 20:55

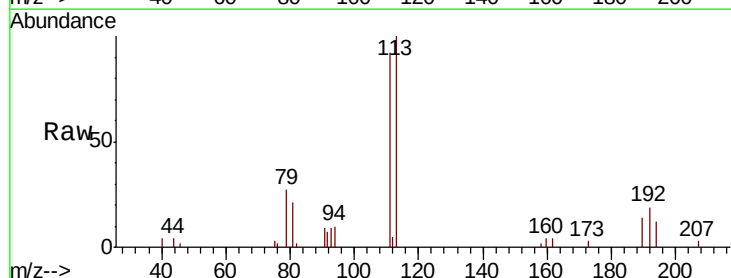
Tgt Ion: 43 Resp: 121

Ion Ratio Lower Upper

43 100

61 0.0 61.6 92.4#

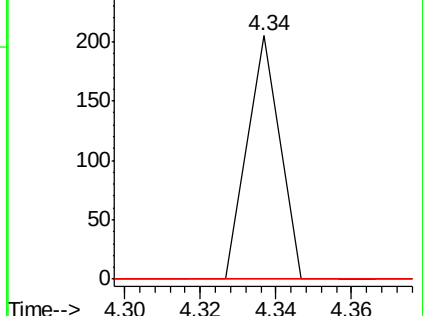
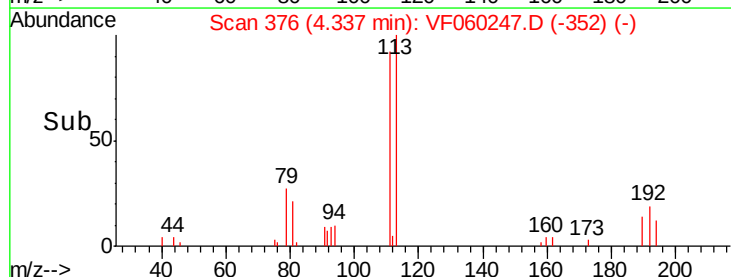
70 0.0 6.9 10.3#

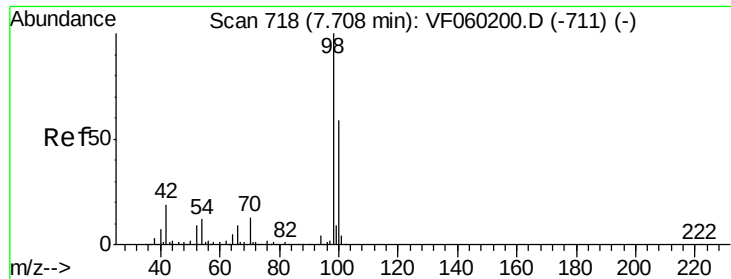


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

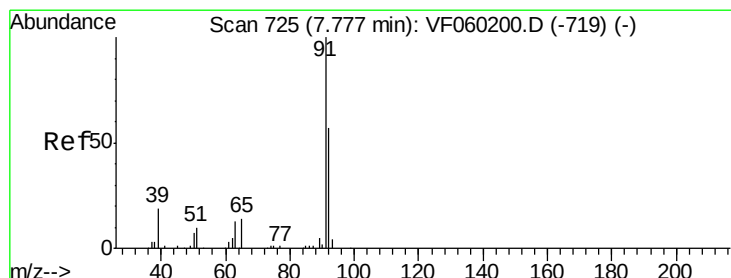
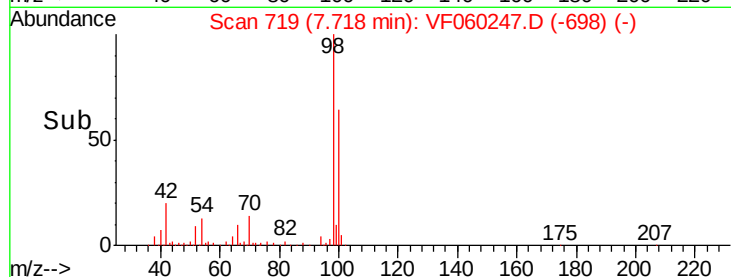
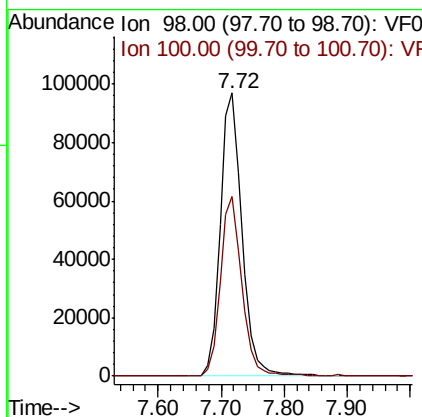
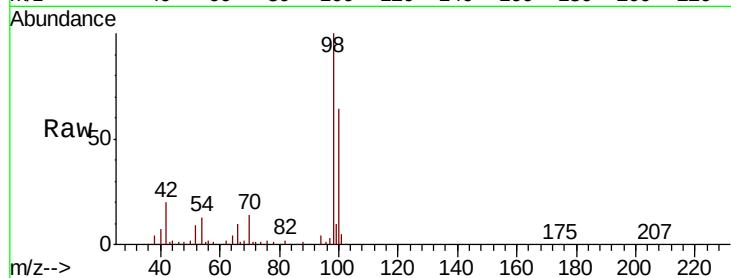




#50
Toluene-d8
Concen: 36.89 ug/l
RT: 7.72 min Scan# 719
Delta R.T. 0.01 min
Lab File: VF060247.D
Acq: 10 Sep 2018 20:55

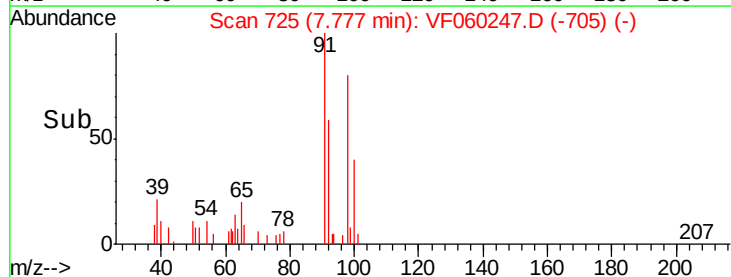
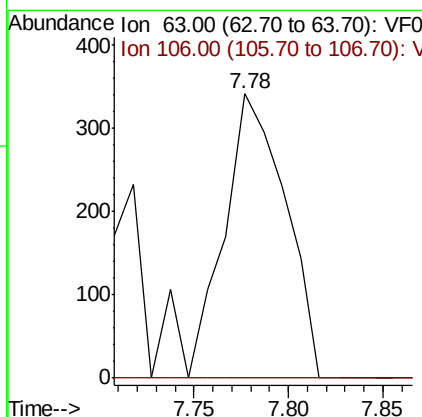
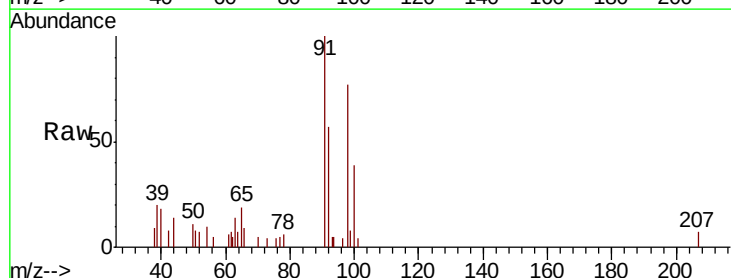
Instrument :
MSVOA_F
ClientSampleId :
OR-02-090618-A

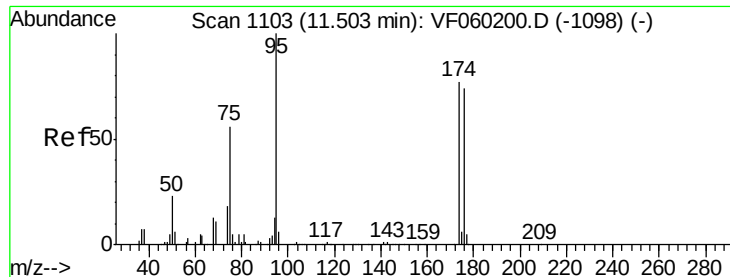
Tot Ion: 98 Resp: 232775
Ion Ratio Lower Upper
98 100
100 63.7 47.4 71.0



#58
2-Chloroethyl Vinyl ether
Concen: 4.00 ug/l
RT: 7.78 min Scan# 725
Delta R.T. 0.00 min
Lab File: VF060247.D
Acq: 10 Sep 2018 20:55

Tgt Ion: 63 Resp: 759
Ion Ratio Lower Upper
63 100
106 0.0 0.0 0.0





#62

4-Bromofluorobenzene

Concen: 33.56 ug/l

RT: 11.51 min Scan# 1104

Delta R.T. 0.01 min

Lab File: VF060247.D

Acq: 10 Sep 2018 20:55

Instrument :

MSVOA_F

ClientSampleId :

OR-02-090618-A

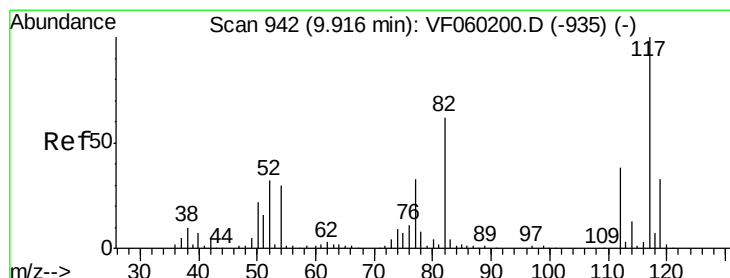
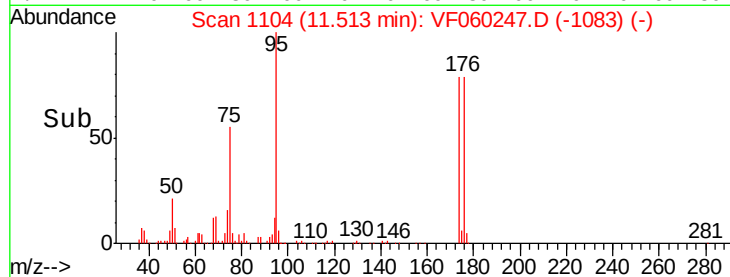
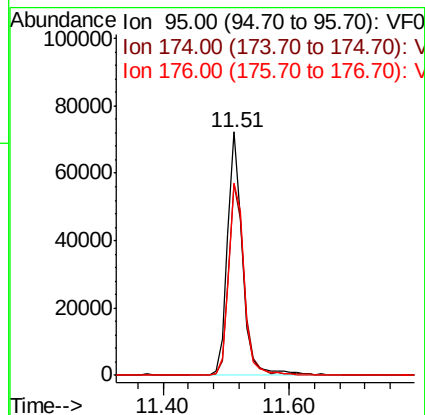
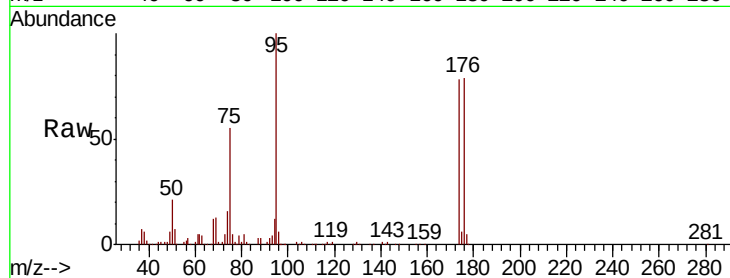
Tot Ion: 95 Resp: 119490

Ion Ratio Lower Upper

95 100

174 78.3 0.0 153.2

176 78.8 0.0 147.2



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 9.93 min Scan# 943

Delta R.T. 0.01 min

Lab File: VF060247.D

Acq: 10 Sep 2018 20:55

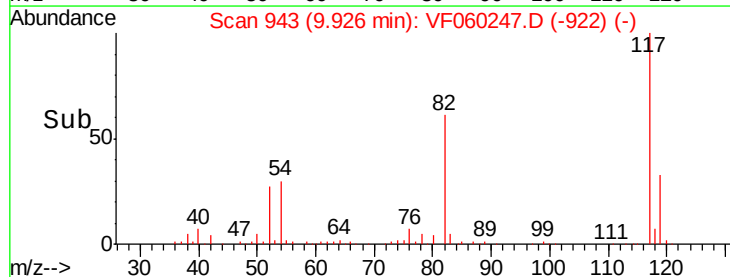
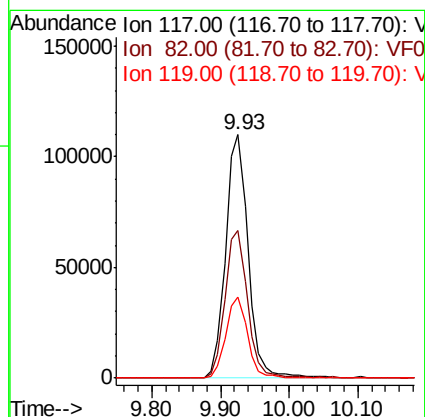
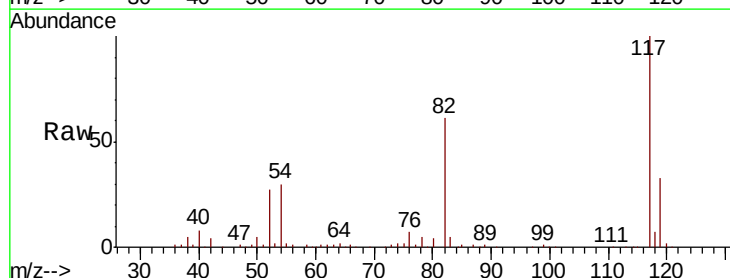
Tgt Ion: 117 Resp: 249212

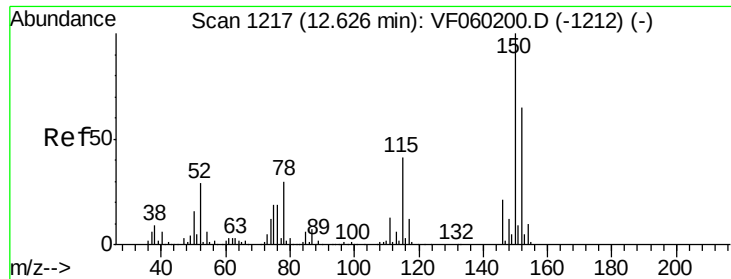
Ion Ratio Lower Upper

117 100

82 60.7 49.3 73.9

119 33.2 26.5 39.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.64 min Scan# 1218

Delta R.T. 0.01 min

Lab File: VF060247.D

Acq: 10 Sep 2018 20:55

Instrument :

MSVOA_F

ClientSampleId :

OR-02-090618-A

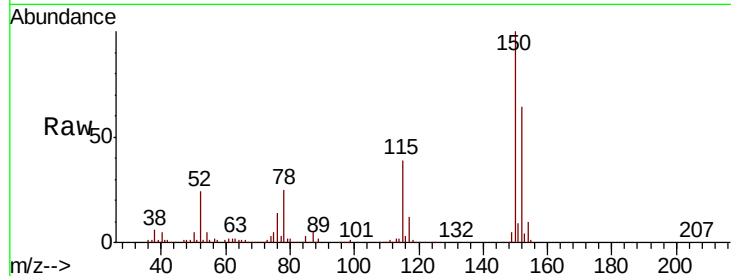
Tot Ion:152 Resp: 132137

Ion Ratio Lower Upper

152 100

115 60.9 31.5 94.5

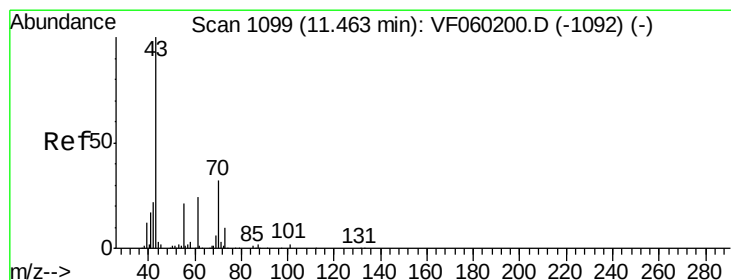
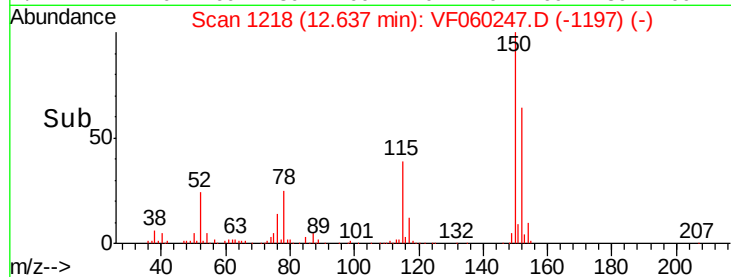
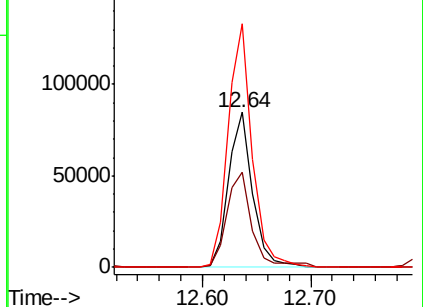
150 156.8 0.0 310.4



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: 5.46 ug/l

RT: 11.50 min Scan# 1103

Delta R.T. 0.04 min

Lab File: VF060247.D

Acq: 10 Sep 2018 20:55

Tgt Ion: 43 Resp: 1342

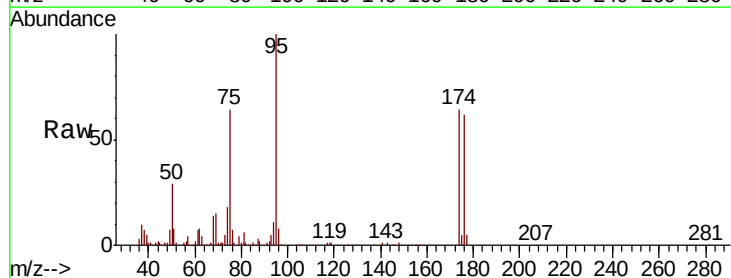
Ion Ratio Lower Upper

43 100

70 109.7 25.8 38.6#

55 104.5 16.8 25.2#

61 656.9 18.9 28.3#

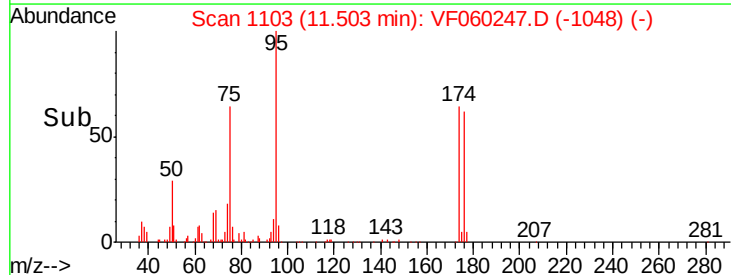
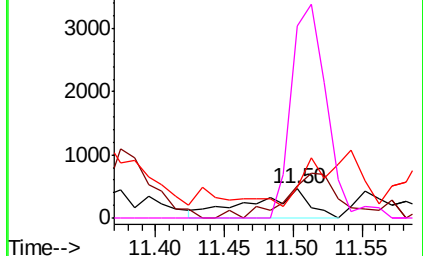


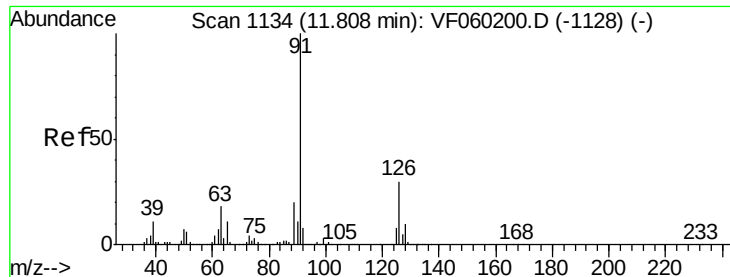
Abundance Ion 43.00 (42.70 to 43.70): VF0

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

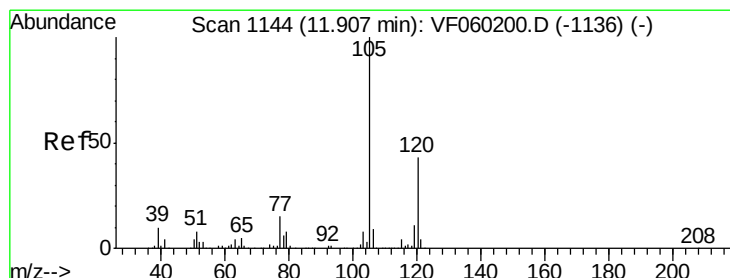
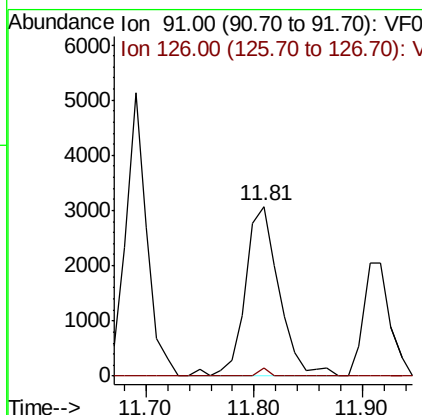
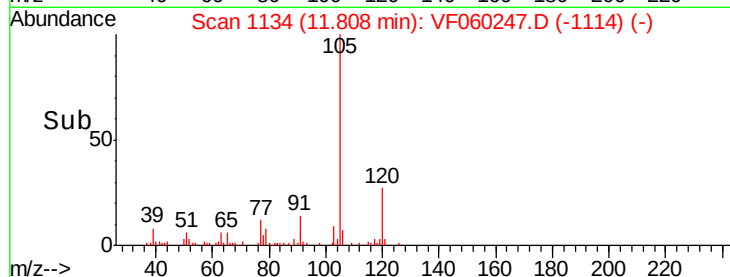
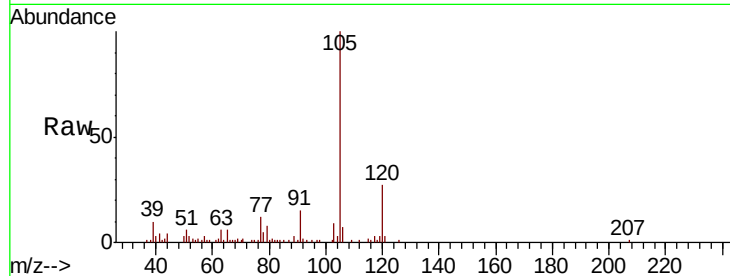




#79
 2-Chlorotoluene
 Concen: 1.02 ug/l
 RT: 11.81 min Scan# 1134
 Delta R.T. 0.00 min
 Lab File: VF060247.D
 Acq: 10 Sep 2018 20:55

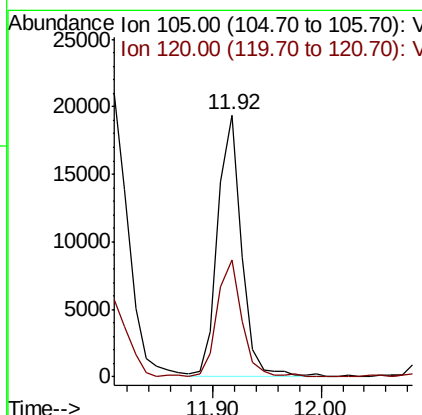
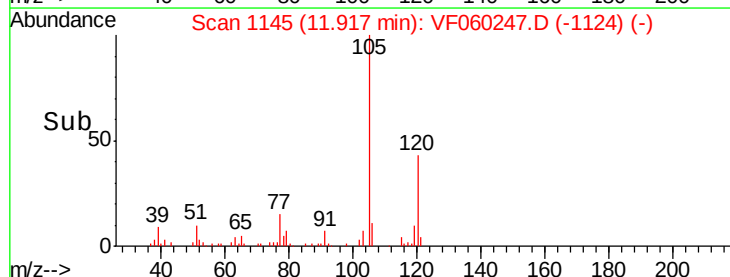
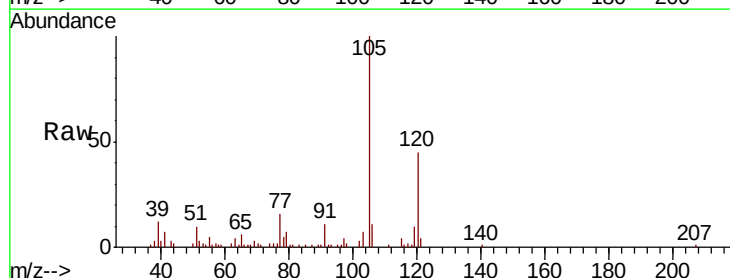
Instrument :
 MSVOA_F
 ClientSampleId :
 OR-02-090618-A

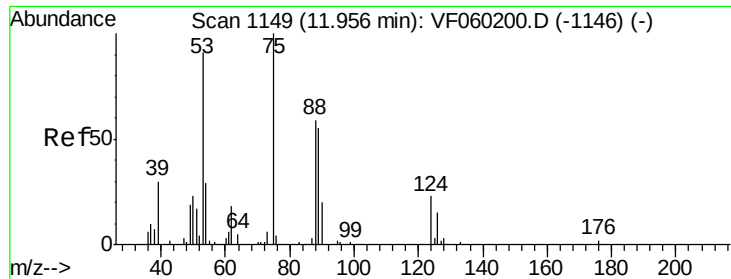
Tot Ion: 91 Resp: 6714
 Ion Ratio Lower Upper
 91 100
 126 4.7 15.2 45.5#



#80
 1,3,5-Trimethylbenzene
 Concen: 3.69 ug/l
 RT: 11.92 min Scan# 1145
 Delta R.T. 0.01 min
 Lab File: VF060247.D
 Acq: 10 Sep 2018 20:55

Tgt Ion: 105 Resp: 29709
 Ion Ratio Lower Upper
 105 100
 120 44.7 21.6 64.8





#81

trans-1,4-Dichloro-2-butene

Concen: 2.90 ug/l

RT: 11.98 min Scan# 1151

Delta R.T. 0.02 min

Lab File: VF060247.D

Acq: 10 Sep 2018 20:55

Instrument :

MSVOA_F

ClientSampleId :

OR-02-090618-A

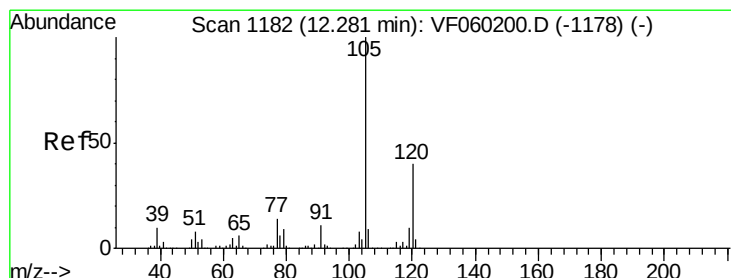
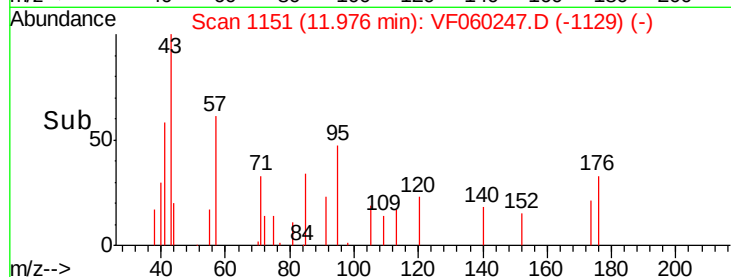
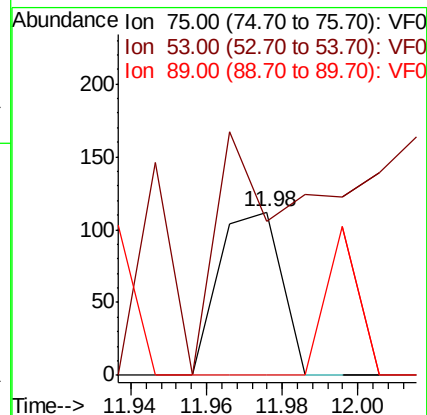
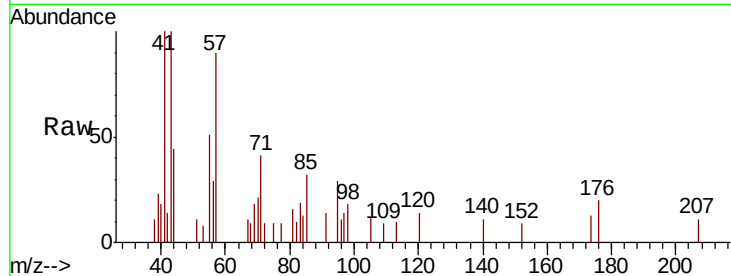
Tot Ion: 75 Resp: 128

Ion Ratio Lower Upper

75 100

53 94.6 76.5 114.7

89 0.0 46.5 69.7#



#84

1,2,4-Trimethylbenzene

Concen: 8.30 ug/l

RT: 12.29 min Scan# 1183

Delta R.T. 0.01 min

Lab File: VF060247.D

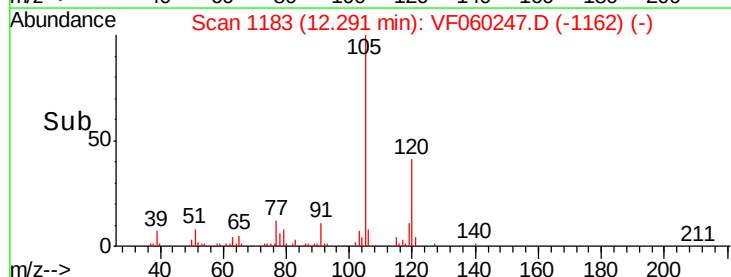
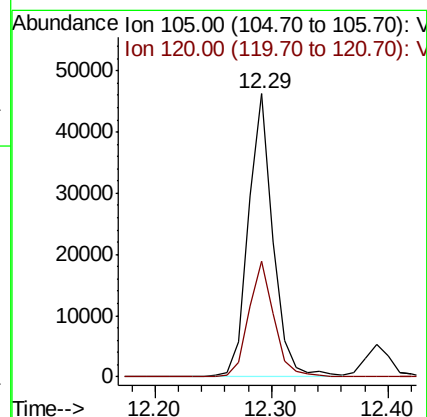
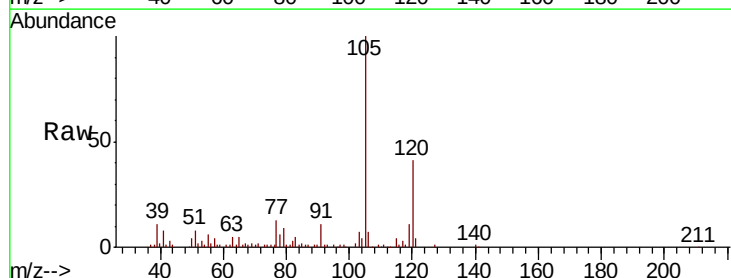
Acq: 10 Sep 2018 20:55

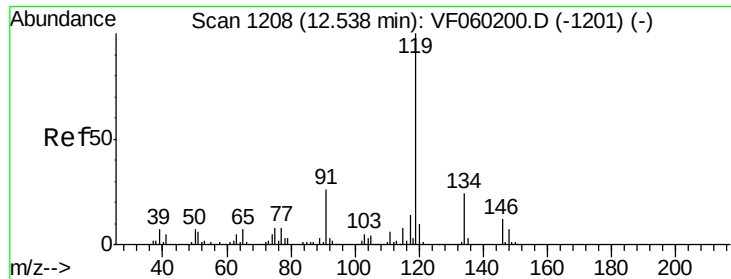
Tgt Ion: 105 Resp: 67877

Ion Ratio Lower Upper

105 100

120 40.7 20.2 60.5

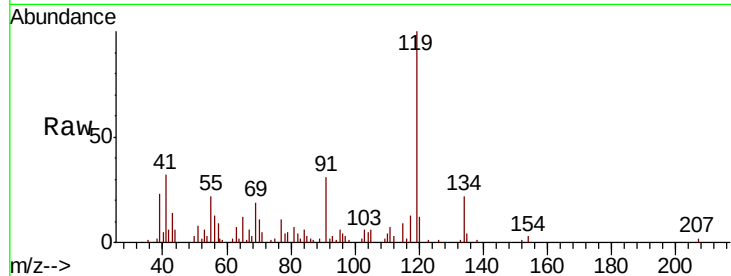




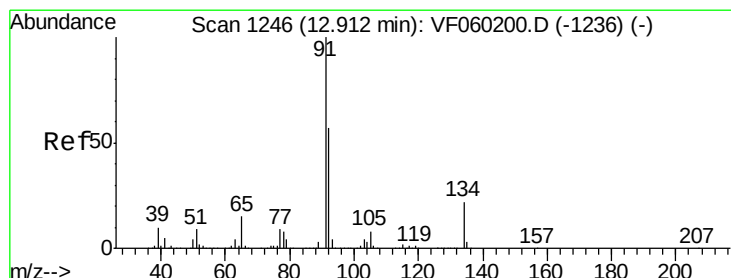
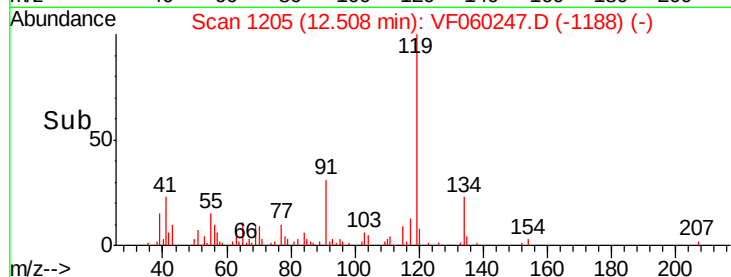
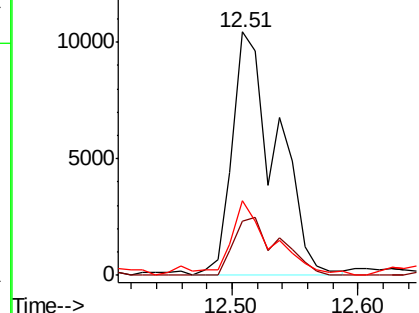
#86
p-Isopropyltoluene
Concen: 2.82 ug/l
RT: 12.51 min Scan# 1205
Delta R.T. -0.03 min
Lab File: VF060247.D
Acq: 10 Sep 2018 20:55

Instrument :
MSVOA_F
ClientSampleId :
OR-02-090618-A

Tot Ion:119 Resp: 25372
Ion Ratio Lower Upper
119 100
134 22.3 12.0 36.0
91 30.9 12.9 38.7

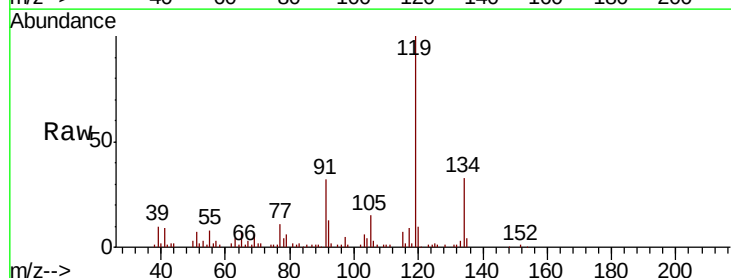


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 134.00 (133.70 to 134.70): V
Ion 91.00 (90.70 to 91.70): V

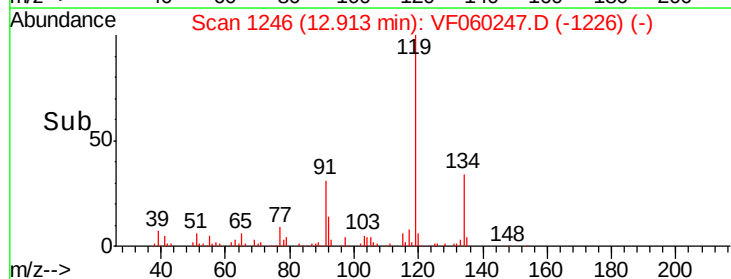
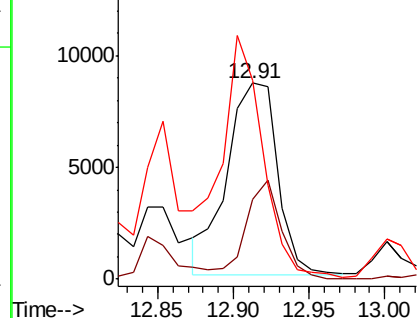


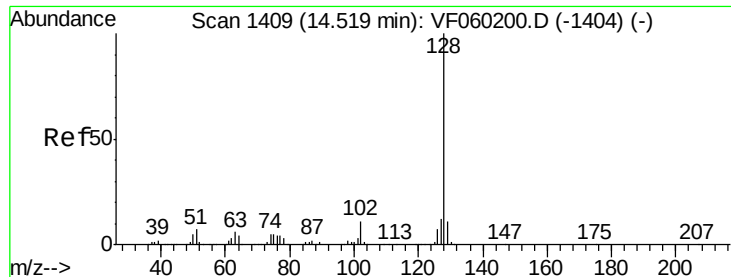
#89
n-Butylbenzene
Concen: 2.30 ug/l
RT: 12.91 min Scan# 1246
Delta R.T. 0.00 min
Lab File: VF060247.D
Acq: 10 Sep 2018 20:55

Tgt Ion: 91 Resp: 20001
Ion Ratio Lower Upper
91 100
92 40.8 28.4 85.3
134 101.2 11.1 33.3#



Abundance Ion 91.00 (90.70 to 91.70): VF0
Ion 92.00 (91.70 to 92.70): VF0
Ion 134.00 (133.70 to 134.70): V





#95
 Naphthalene
 Concen: 5.33 ug/l
 RT: 14.52 min Scan# 1409
 Delta R.T. 0.00 min
 Lab File: VF060247.D
 Acq: 10 Sep 2018 20:55

Instrument :
 MSVOA_F
 ClientSampleId :
 OR-02-090618-A

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.3	9.9	14.9
129	27.2	8.9	13.3

