

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF090718\
 Data File : VF060207.D
 Acq On : 7 Sep 2018 12:54
 Operator : VA/AP
 Sample : VF0907SBL01
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Sep 07 14:24:38 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

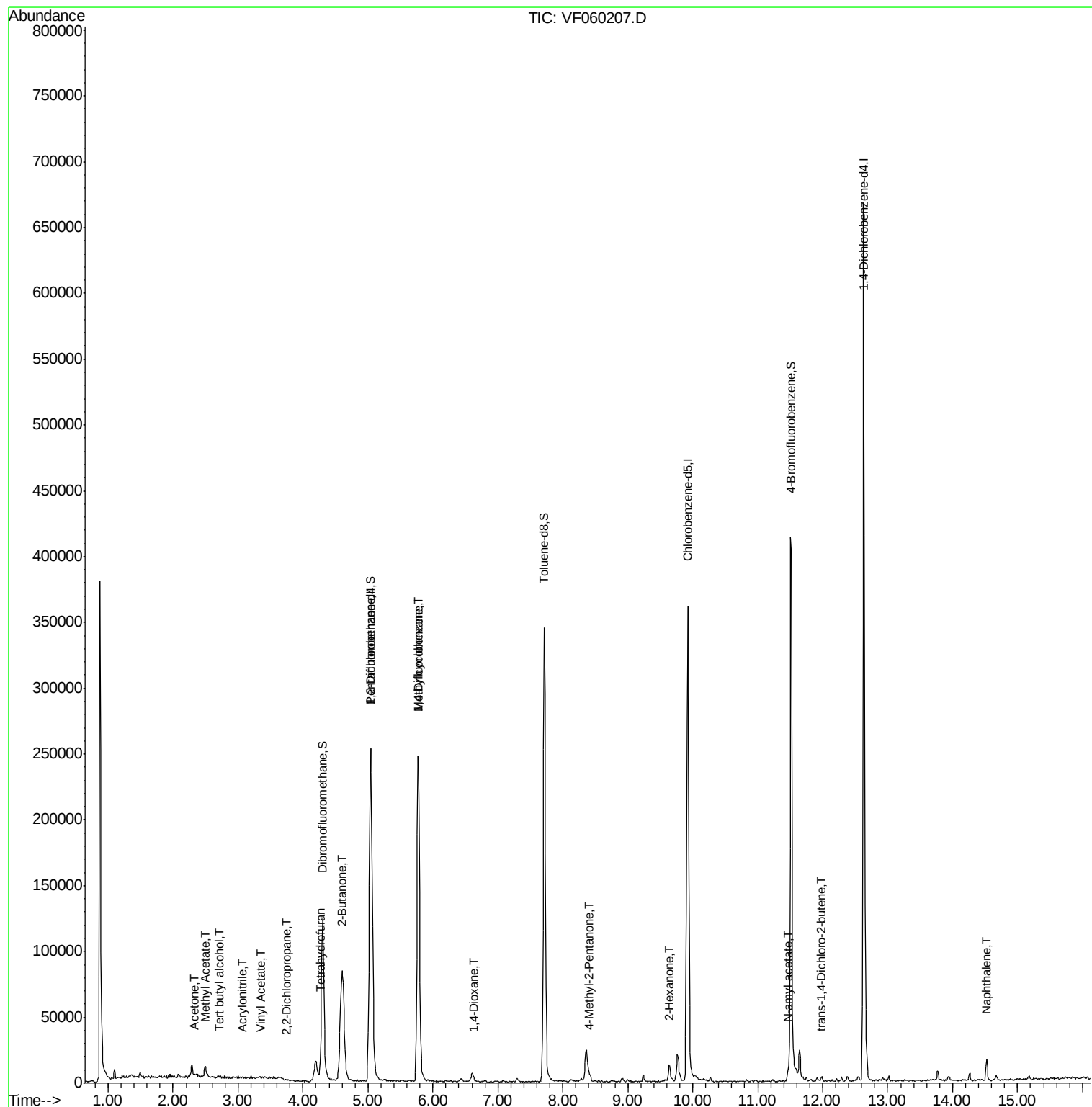
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.05	168	155359	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.77	114	238079	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	242827	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	160144	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.03	65	131233	48.35	ug/l	0.02
Spiked Amount 50.000			Recovery	=	96.70%	
35) Dibromofluoromethane	4.30	113	110711	47.46	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.92%	
50) Toluene-d8	7.71	98	270717	46.51	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.02%	
62) 4-Bromofluorobenzene	11.51	95	153493	46.74	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.48%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	2.72	59	64	12.889	ug/l #	75
13) Acrolein	2.09	56	266	Below Cal	#	83
15) Acrylonitrile	3.07	53	371	1.798	ug/l #	11
16) Acetone	2.33	43	4107	17.423	ug/l #	69
18) Methyl Acetate	2.49	43	2376	2.591	ug/l #	64
20) Methylene Chloride	2.28	84	3821	Below Cal		87
23) Vinyl Acetate	3.36	43	792	23.204	ug/l #	82
25) 2-Butanone	4.61	43	8208	10.760	ug/l #	81
26) 2,2-Dichloropropane	3.75	77	69	2.051	ug/l #	64
29) Tetrahydrofuran	4.26	42	614	2.435	ug/l #	53
37) Ethyl Acetate	4.30	43	377	Below Cal	#	17
39) Methylcyclohexane	5.76	83	2598	1.107	ug/l #	34
49) 1,4-Dioxane	6.64	88	61	3.206	ug/l #	1
51) 4-Methyl-2-Pentanone	8.41	43	4032	2.784	ug/l #	81
59) 2-Hexanone	9.65	43	11285	9.289	ug/l	89
64) Tetrachloroethene	8.29	164	85	Below Cal	#	1
74) N-amyl acetate	11.47	43	6782	7.583	ug/l #	88
81) trans-1,4-Dichloro-2-buten	11.99	75	282	3.194	ug/l #	26
95) Naphthalene	14.52	128	10817	4.303	ug/l #	90

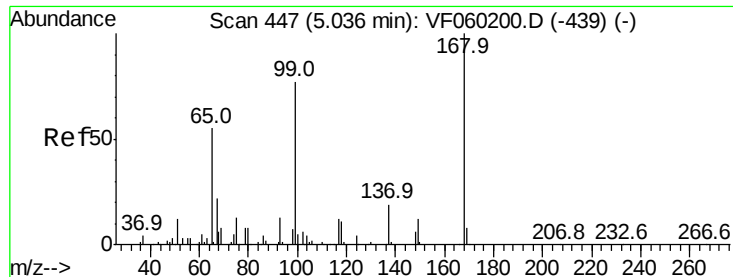
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Sep 07 10:44:05 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.05 min Scan# 448

Delta R.T. 0.02 min

Lab File: VF060207.D

Acq: 7 Sep 2018 12:54

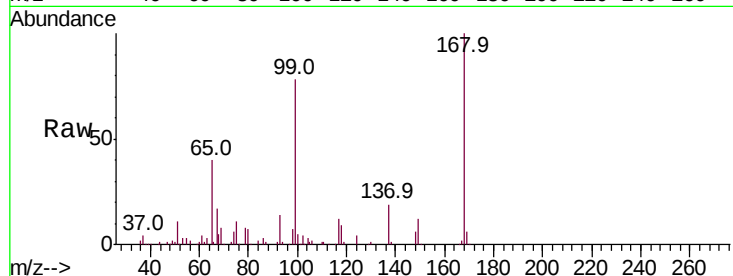
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 155359

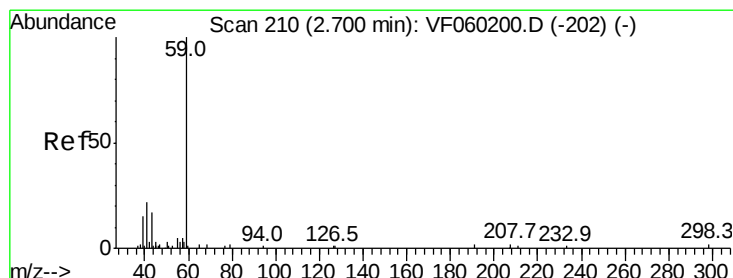
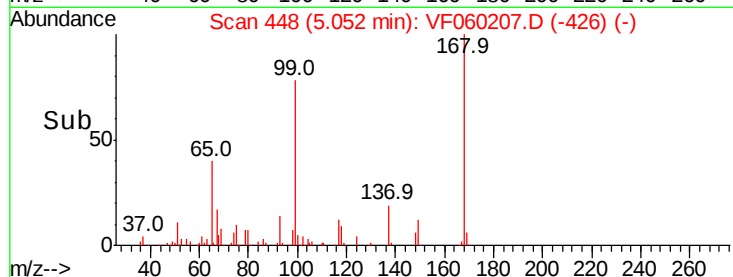
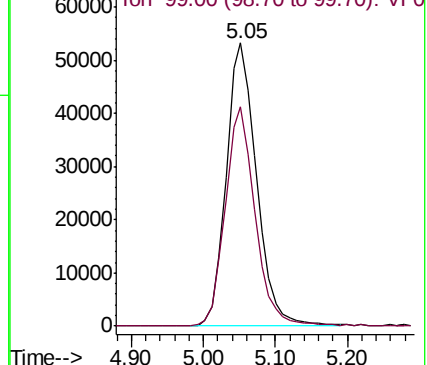
Ion Ratio Lower Upper

168 100

99 77.6 61.8 92.6



Abundance Ion 168.00 (167.70 to 168.70): VF0



#11

Tert butyl alcohol

Concen: 12.889 ug/l

RT: 2.72 min Scan# 211

Delta R.T. 0.02 min

Lab File: VF060207.D

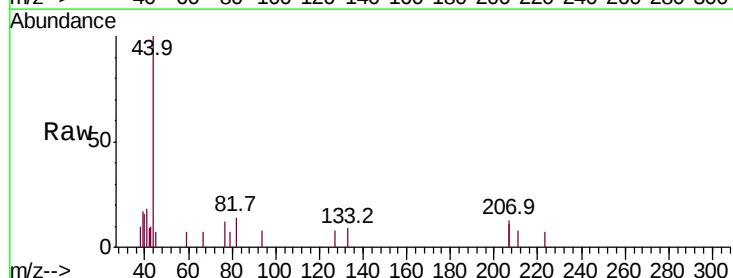
Acq: 7 Sep 2018 12:54

Tgt Ion: 59 Resp: 64

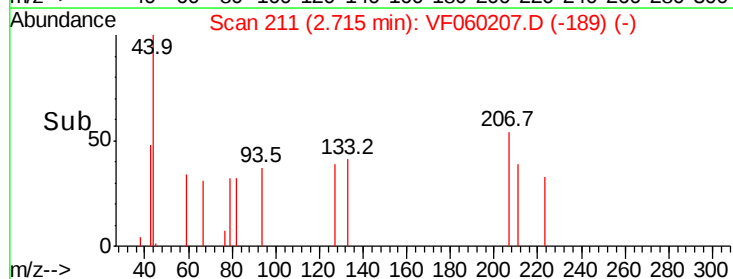
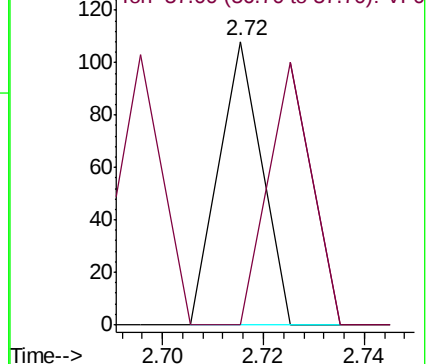
Ion Ratio Lower Upper

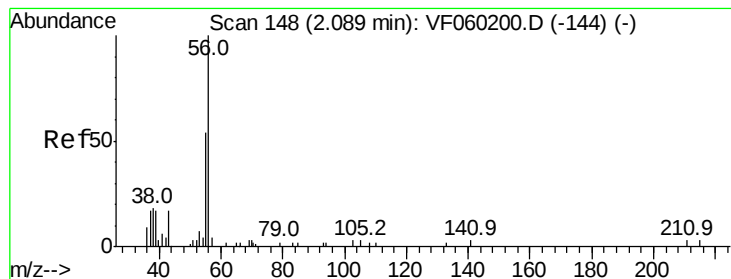
59 100

57 0.0 7.2 10.8#



Abundance Ion 59.00 (58.70 to 59.70): VF0





#13

Acrolein

Concen: Below Cal

RT: 2.09 min Scan# 148

Delta R.T. 0.01 min

Lab File: VF060207.D

Acq: 7 Sep 2018 12:54

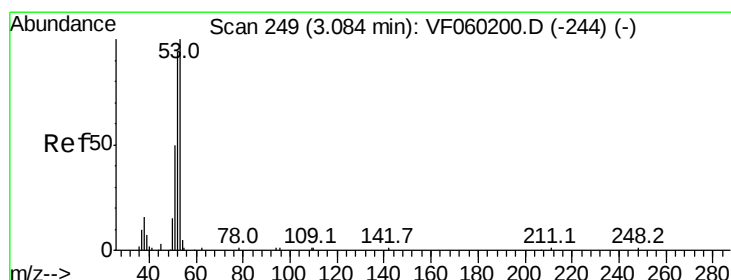
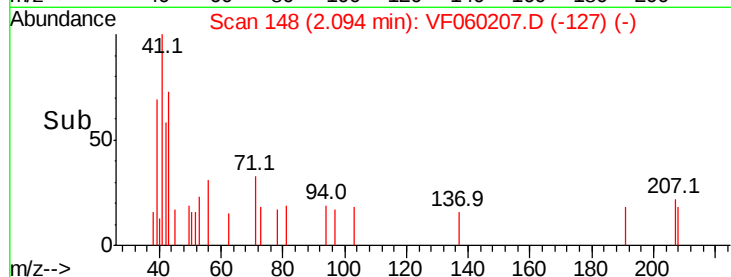
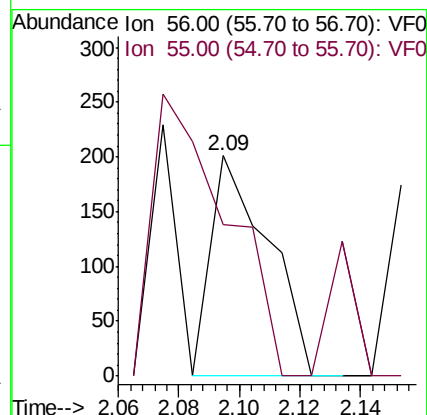
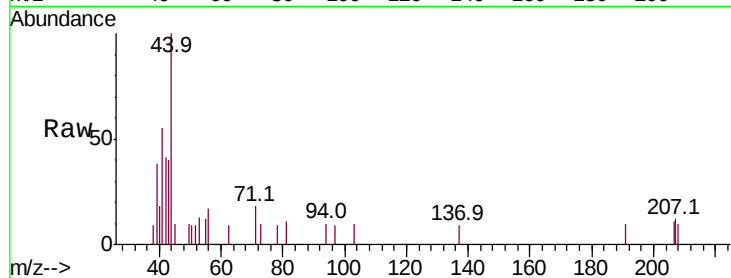
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 56 Resp: 266

Ion Ratio Lower Upper

56 100

55 68.7 45.1 67.7#



#15

Acrylonitrile

Concen: 1.798 ug/l

RT: 3.07 min Scan# 247

Delta R.T. -0.01 min

Lab File: VF060207.D

Acq: 7 Sep 2018 12:54

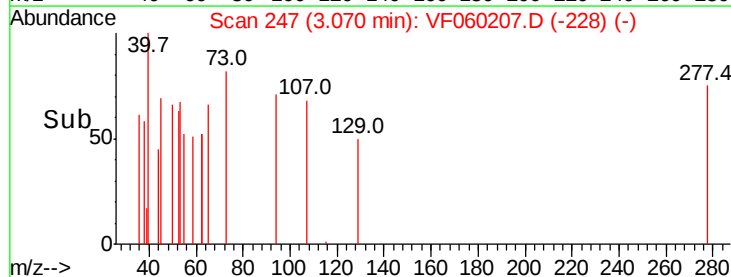
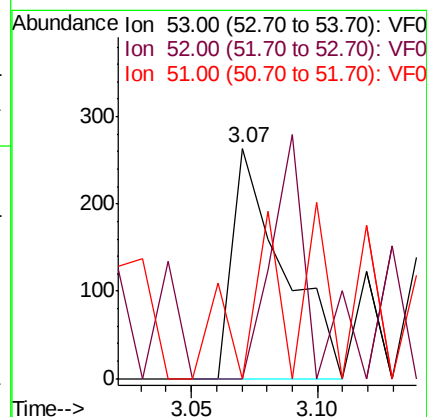
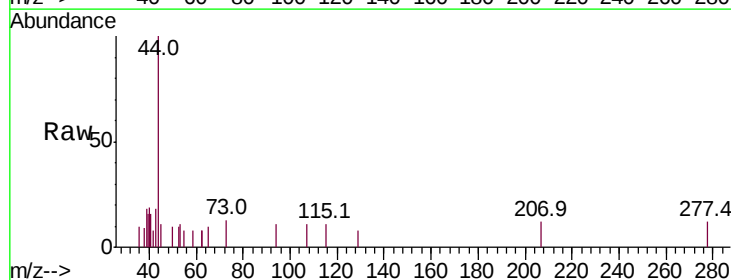
Tgt Ion: 53 Resp: 371

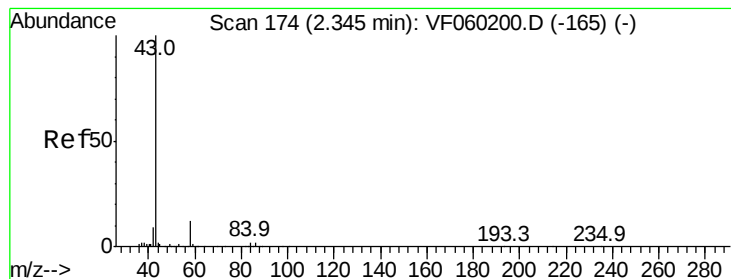
Ion Ratio Lower Upper

53 100

52 0.0 75.0 112.6#

51 0.0 39.9 59.9#





#16

Acetone

Concen: 17.423 ug/l

RT: 2.33 min Scan# 172

Delta R.T. -0.01 min

Lab File: VF060207.D

Acq: 7 Sep 2018 12:54

Instrument :

MSVOA_F

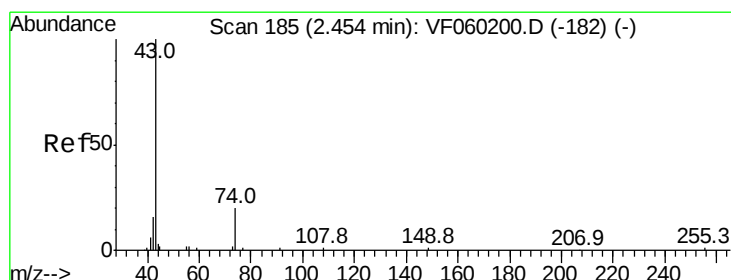
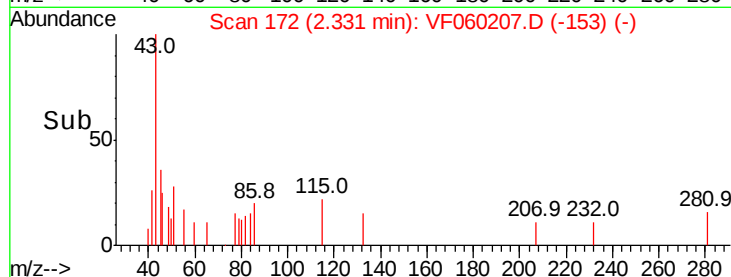
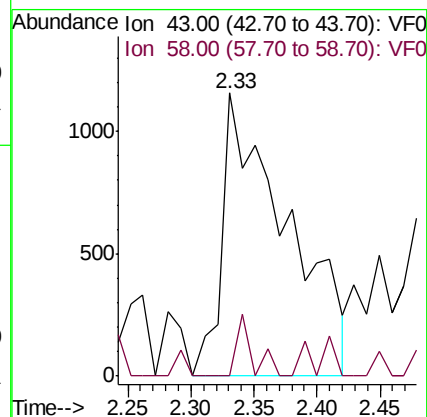
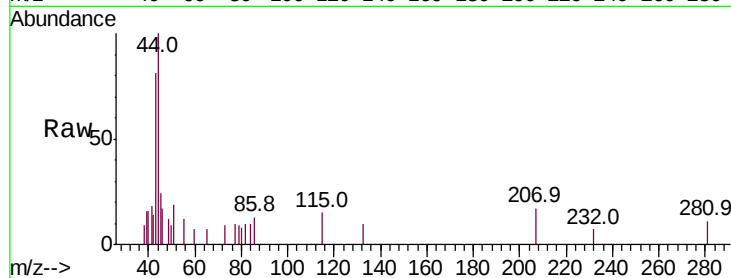
ClientSampled :

Tot Ion: 43 Resp: 4107

Ion Ratio Lower Upper

43 100

58 0.0 9.7 14.5#



#18

Methyl Acetate

Concen: 2.591 ug/l

RT: 2.49 min Scan# 188

Delta R.T. 0.04 min

Lab File: VF060207.D

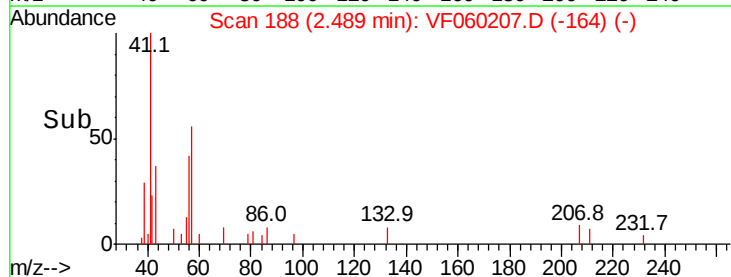
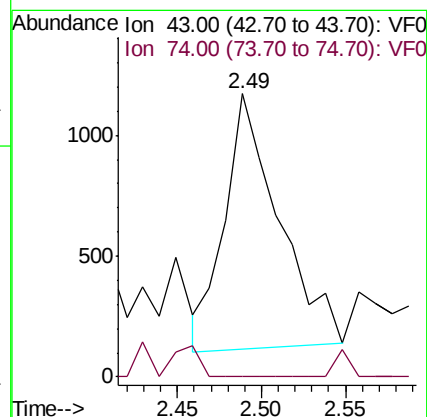
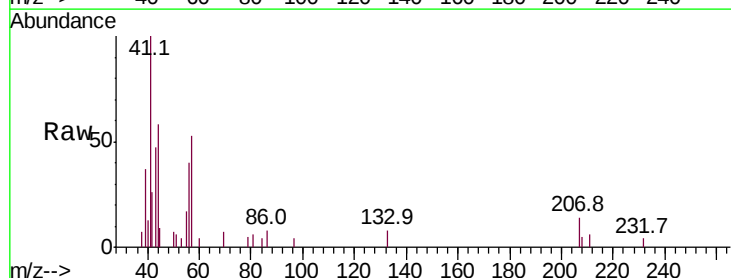
Acq: 7 Sep 2018 12:54

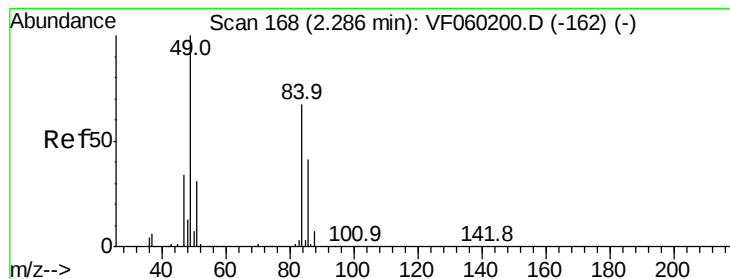
Tgt Ion: 43 Resp: 2376

Ion Ratio Lower Upper

43 100

74 0.0 11.9 17.9#



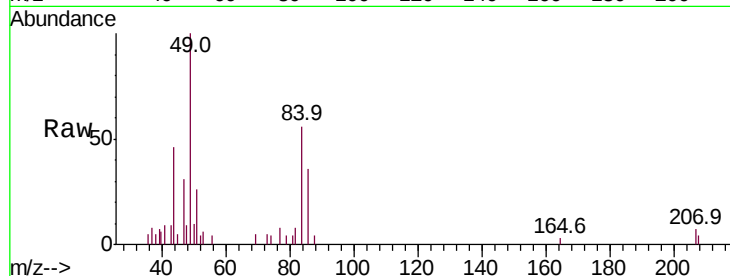


#20

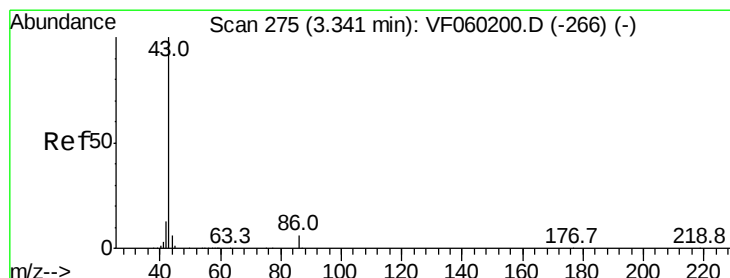
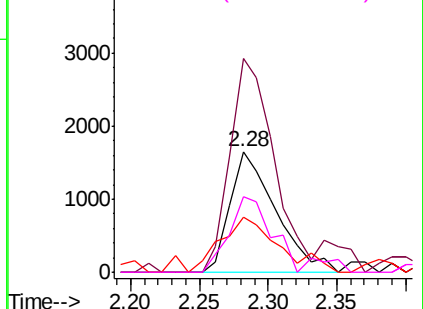
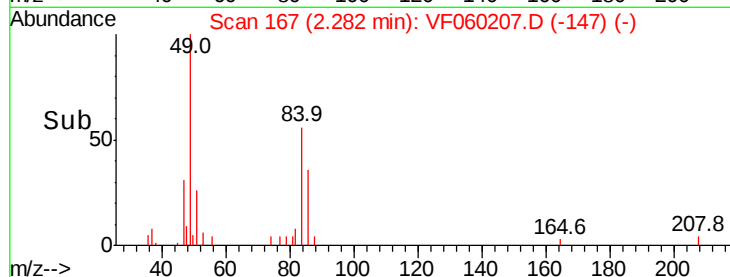
Methylene Chloride
 Concen: Below Cal
 RT: 2.28 min Scan# 167
 Delta R.T. -0.00 min
 Lab File: VF060207.D
 Acq: 7 Sep 2018 12:54

Instrument :
 MSVOA_F
 ClientSampled :

Tot Ion: 84 Resp: 3821
 Ion Ratio Lower Upper
 84 100
 49 177.3 120.1 180.1
 51 45.5 37.0 55.6
 86 63.1 49.0 73.6



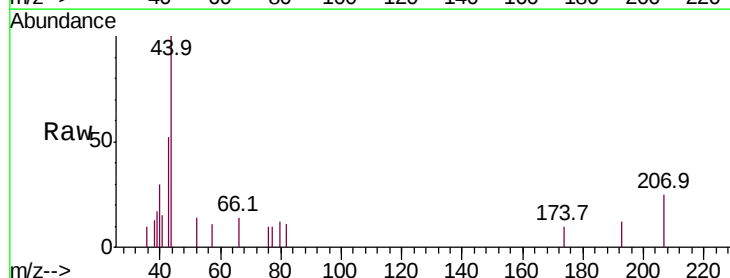
Abundance Ion 84.00 (83.70 to 84.70): VF0
 Ion 49.00 (48.70 to 49.70): VF0
 Ion 51.00 (50.70 to 51.70): VF0
 Ion 86.00 (85.70 to 86.70): VF0



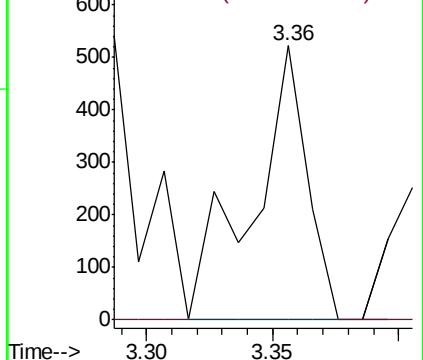
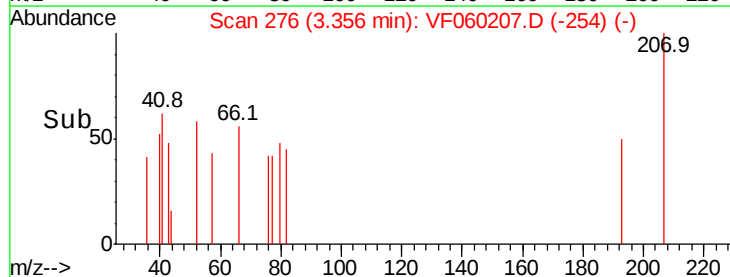
#23

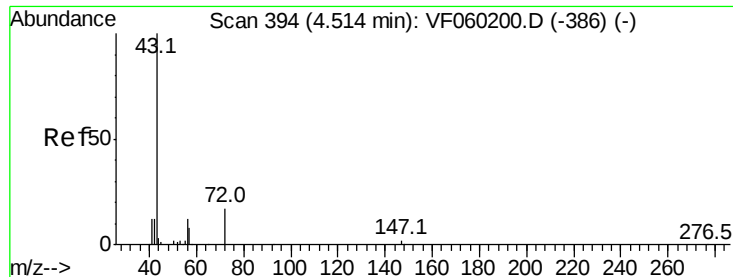
Vinyl Acetate
 Concen: 23.204 ug/l
 RT: 3.36 min Scan# 276
 Delta R.T. 0.02 min
 Lab File: VF060207.D
 Acq: 7 Sep 2018 12:54

Tgt Ion: 43 Resp: 792
 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: 10.760 ug/l

RT: 4.61 min Scan# 403

Delta R.T. 0.09 min

Lab File: VF060207.D

Acq: 7 Sep 2018 12:54

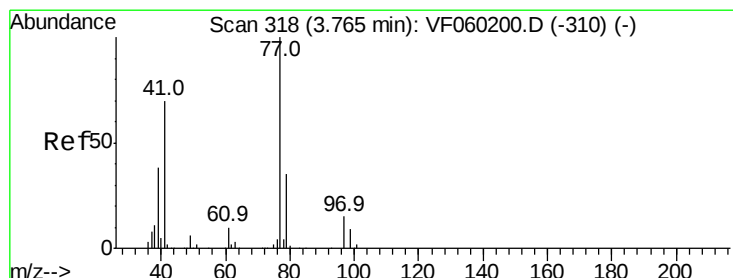
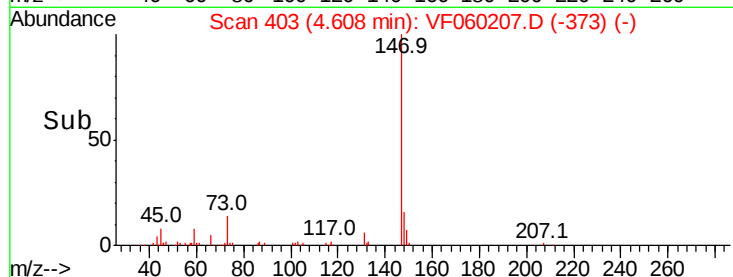
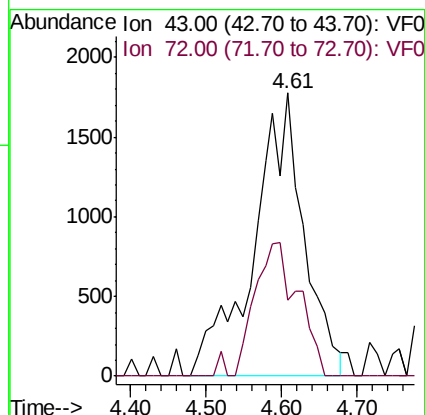
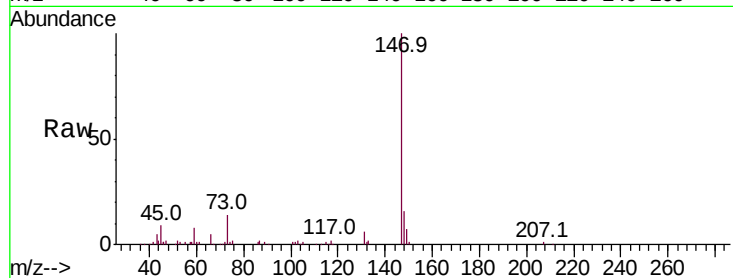
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 8208

Ion Ratio Lower Upper

43 100

72 26.8 14.8 22.2#



#26

2,2-Dichloropropane

Concen: 2.051 ug/l

RT: 3.75 min Scan# 316

Delta R.T. -0.01 min

Lab File: VF060207.D

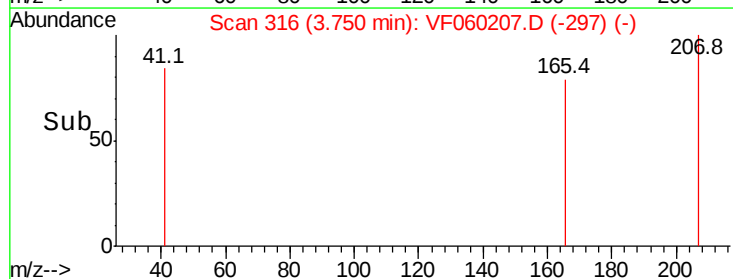
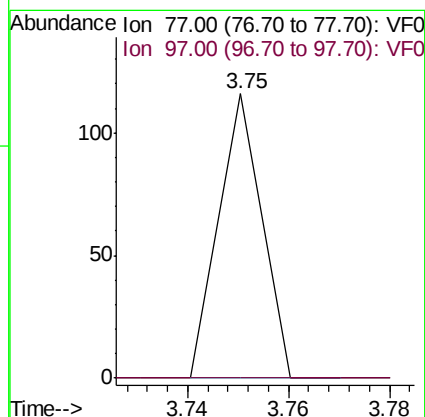
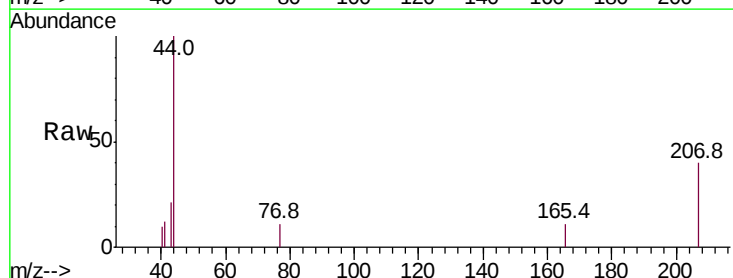
Acq: 7 Sep 2018 12:54

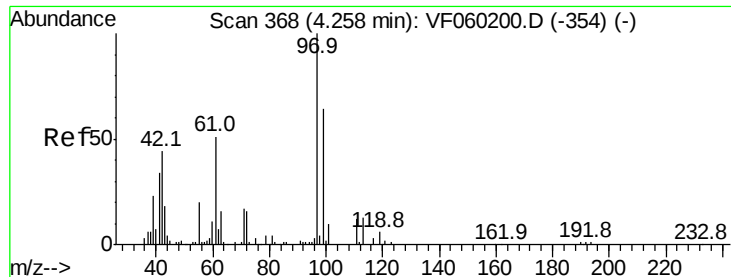
Tgt Ion: 77 Resp: 69

Ion Ratio Lower Upper

77 100

97 0.0 7.5 22.5#





#29

Tetrahydrofuran

Concen: 2.435 ug/l

RT: 4.26 min Scan# 368

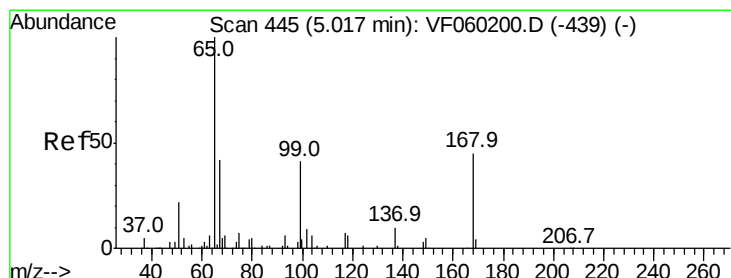
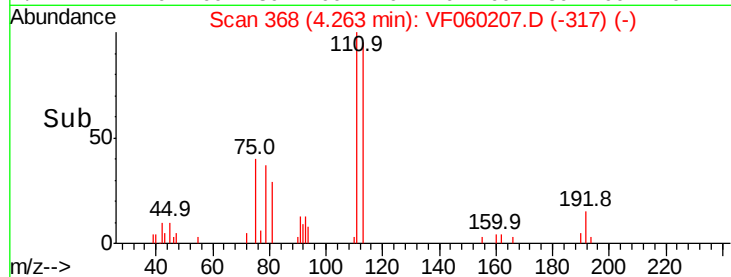
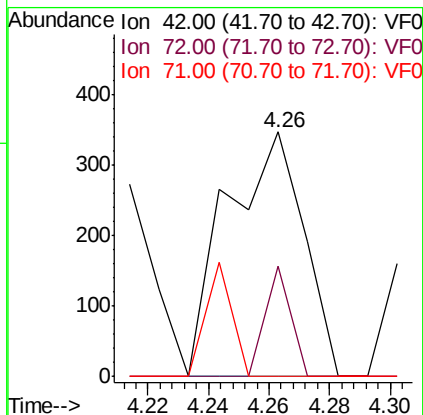
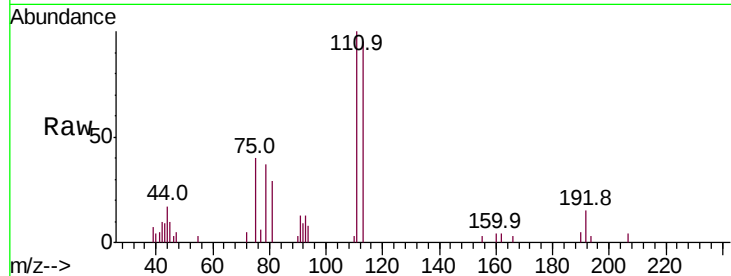
Delta R.T. 0.01 min

Lab File: VF060207.D

Acq: 7 Sep 2018 12:54

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:	42	Resp:	614
Ion	Ratio	Lower	Upper
42	100		
72	0.0	27.4	41.0#
71	15.6	28.5	42.7#



#33

1,2-Dichloroethane-d4

Concen: 48.353 ug/l

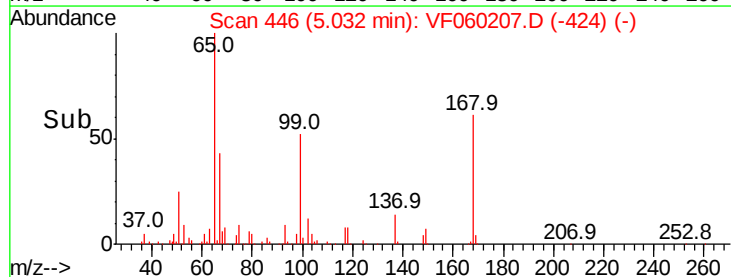
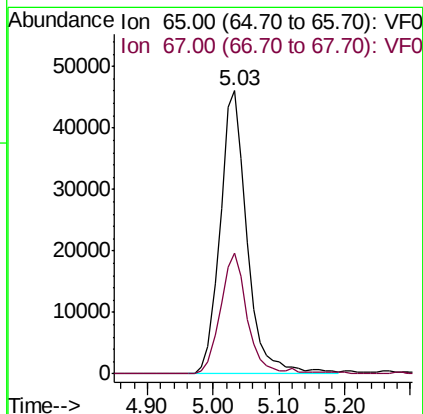
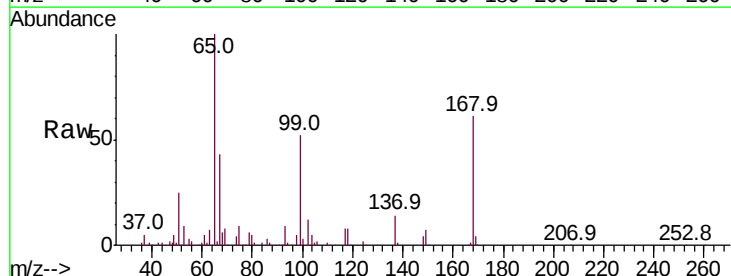
RT: 5.03 min Scan# 446

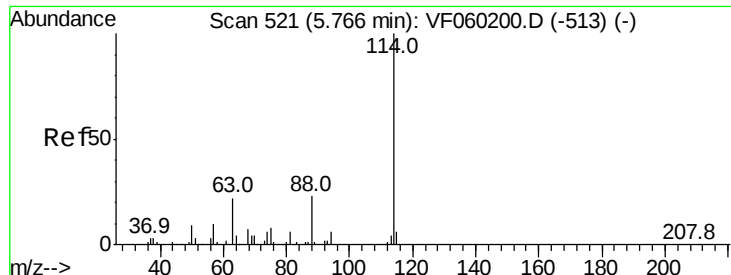
Delta R.T. 0.02 min

Lab File: VF060207.D

Acq: 7 Sep 2018 12:54

Tgt Ion:	65	Resp:	131233
Ion	Ratio	Lower	Upper
65	100		
67	42.8	0.0	87.2

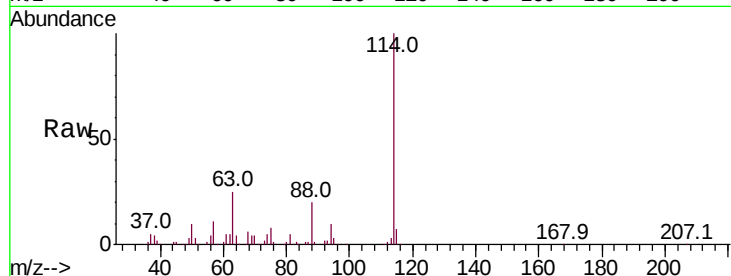




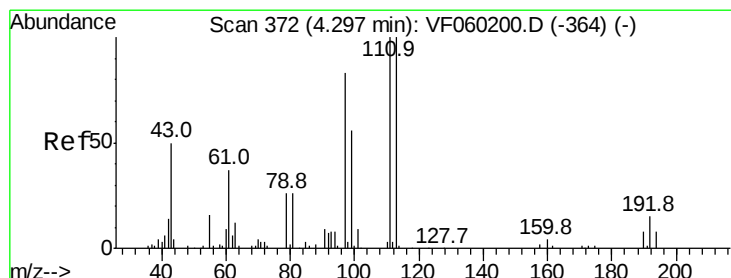
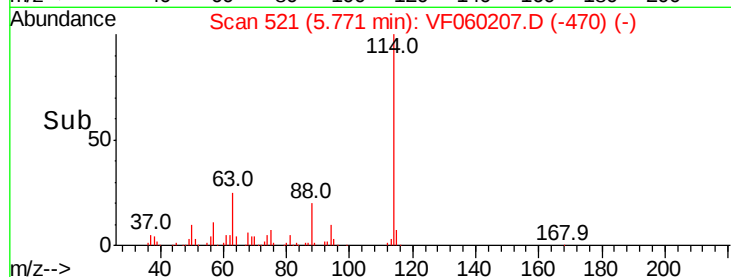
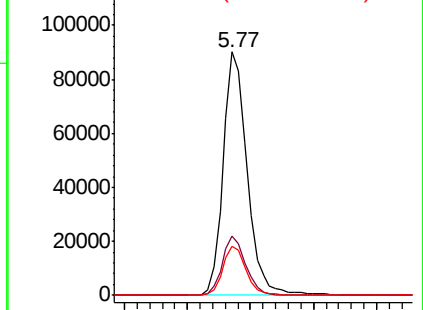
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.77 min Scan# 521
 Delta R.T. 0.01 min
 Lab File: VF060207.D
 Acq: 7 Sep 2018 12:54

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion:	114	Resp:	238079
Ion	Ratio	Lower	Upper
114	100		
63	24.6	0.0	45.6
88	20.1	0.0	46.4

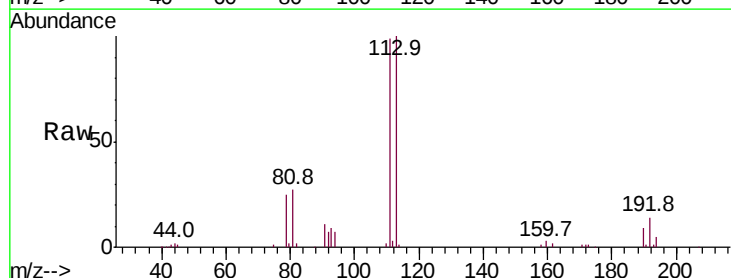


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VF0
 Ion 88.00 (87.70 to 88.70): VF0

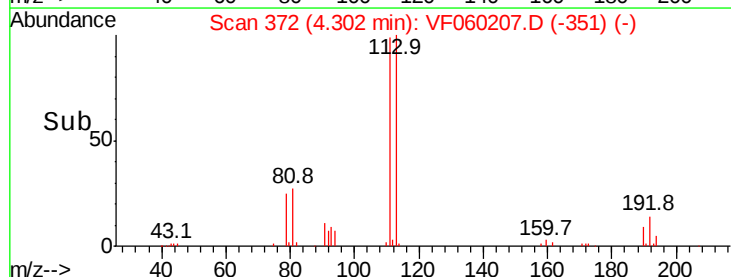
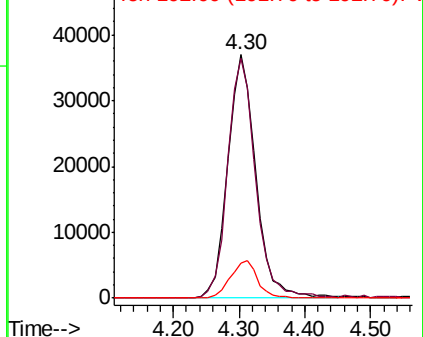


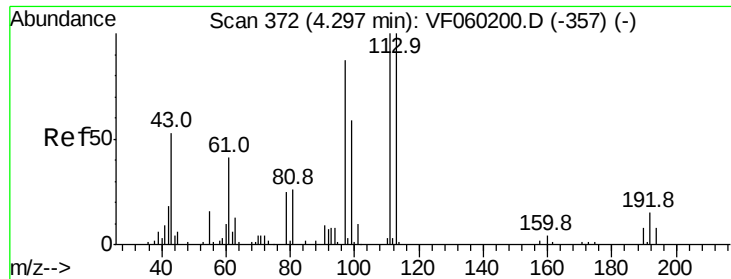
#35
 Dibromofluoromethane
 Concen: 47.464 ug/l
 RT: 4.30 min Scan# 372
 Delta R.T. 0.01 min
 Lab File: VF060207.D
 Acq: 7 Sep 2018 12:54

Tgt Ion:	113	Resp:	110711
Ion	Ratio	Lower	Upper
113	100		
111	98.7	80.2	120.2
192	14.2	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

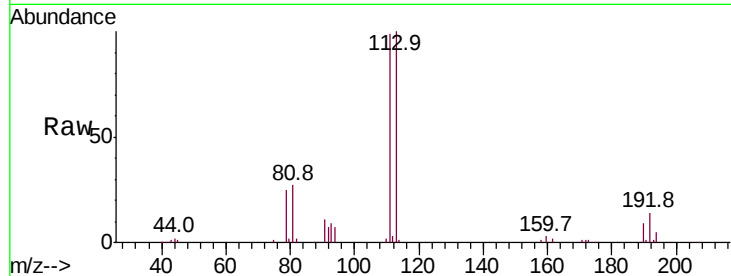




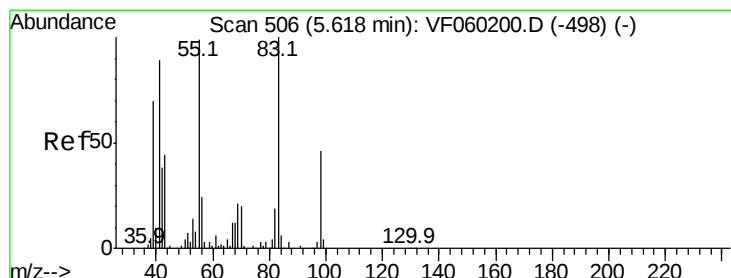
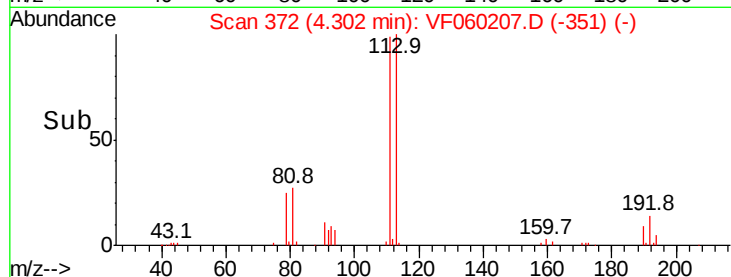
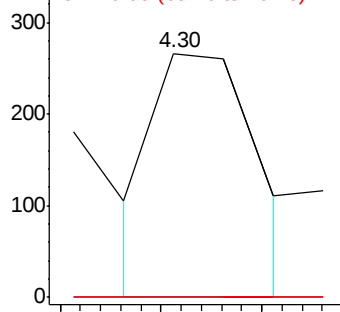
#37
Ethyl Acetate
Concen: Below Cal
RT: 4.30 min Scan# 372
Delta R.T. 0.01 min
Lab File: VF060207.D
Acq: 7 Sep 2018 12:54

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 377
Ion Ratio Lower Upper
43 100
61 0.0 61.6 92.4#
70 0.0 6.9 10.3#

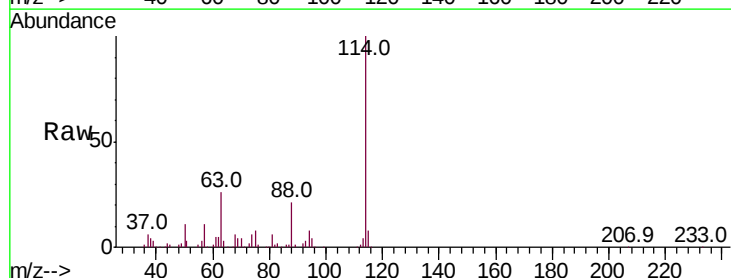


Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 70.00 (69.70 to 70.70): VF0

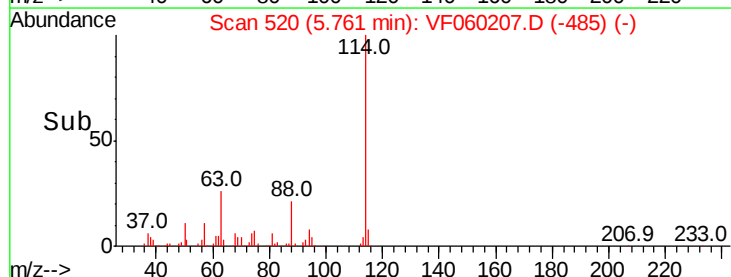
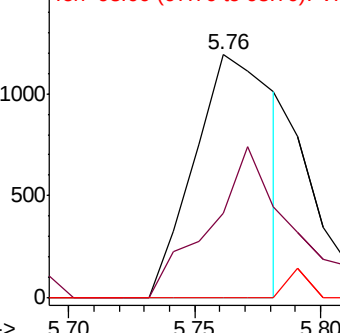


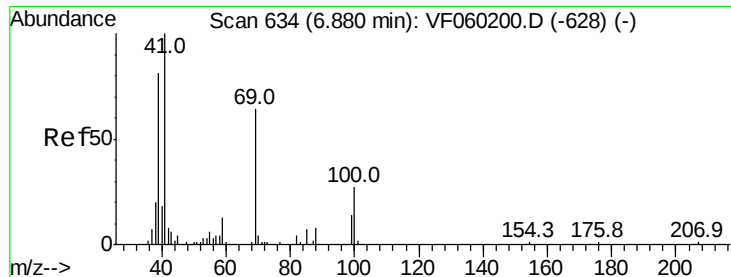
#39
Methylcyclohexane
Concen: 1.107 ug/l
RT: 5.76 min Scan# 520
Delta R.T. 0.14 min
Lab File: VF060207.D
Acq: 7 Sep 2018 12:54

Tgt Ion: 83 Resp: 2598
Ion Ratio Lower Upper
83 100
55 35.0 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





#49

1,4-Dioxane

Concen: 3.206 ug/l

RT: 6.64 min Scan# 609

Delta R.T. -0.24 min

Lab File: VF060207.D

Acq: 7 Sep 2018 12:54

Instrument :
MSVOA_F
ClientSampleId :

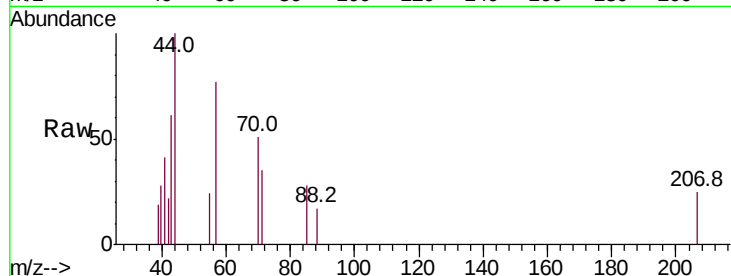
Tot Ion: 88 Resp: 61

Ion Ratio Lower Upper

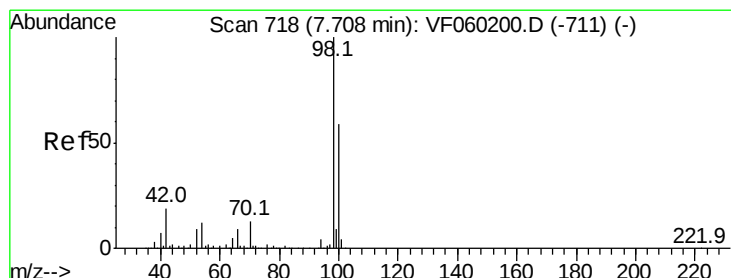
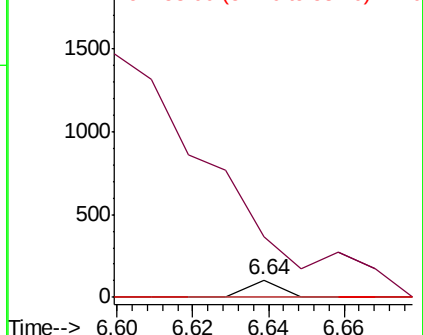
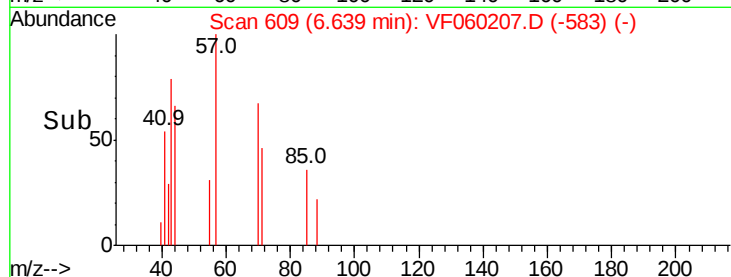
88 100

43 355.3 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: 46.510 ug/l

RT: 7.71 min Scan# 718

Delta R.T. 0.01 min

Lab File: VF060207.D

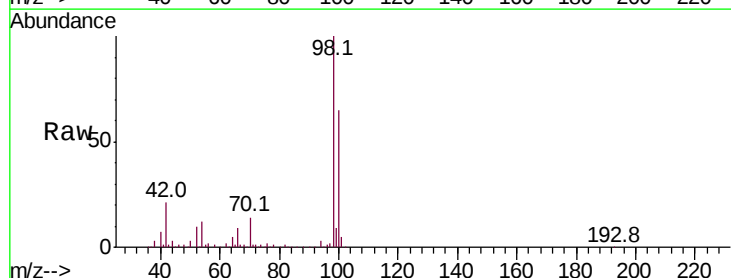
Acq: 7 Sep 2018 12:54

Tgt Ion: 98 Resp: 270717

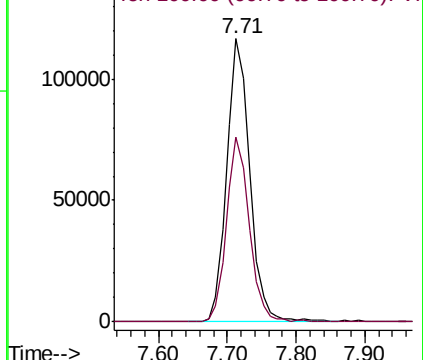
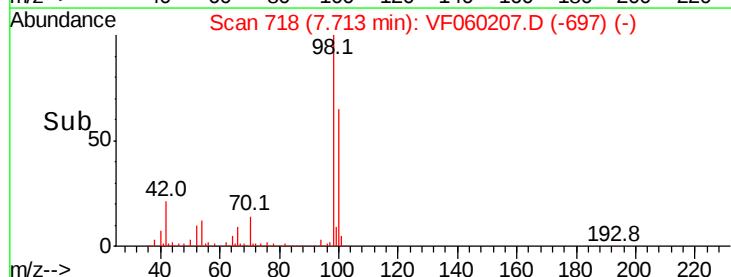
Ion Ratio Lower Upper

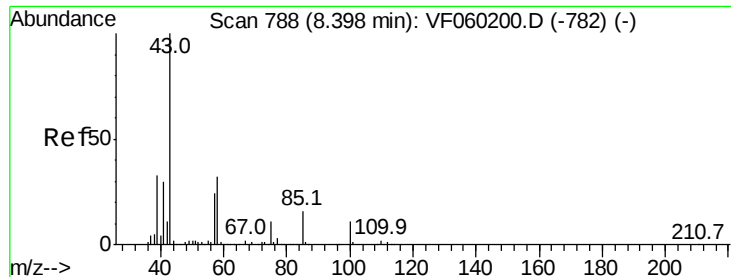
98 100

100 65.4 47.4 71.0



Abundance Ion 98.00 (97.70 to 98.70): VF0
Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 2.784 ug/l

RT: 8.41 min Scan# 789

Delta R.T. 0.02 min

Lab File: VF060207.D

Acq: 7 Sep 2018 12:54

Instrument :

MSVOA_F

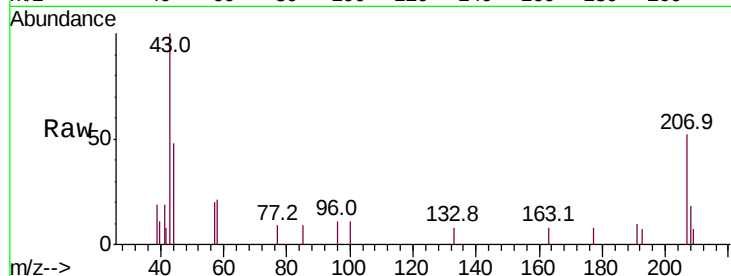
ClientSampleId :

Tot Ion: 43 Resp: 4032

Ion Ratio Lower Upper

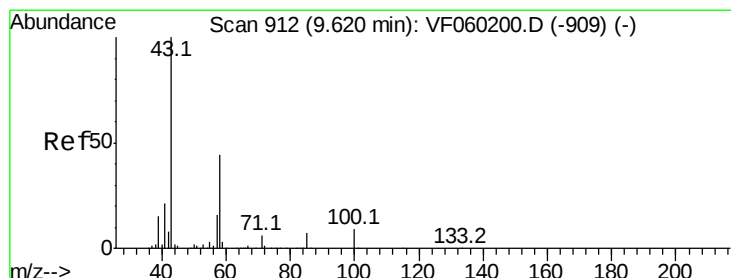
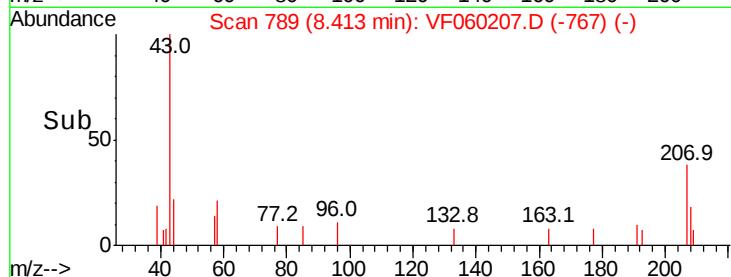
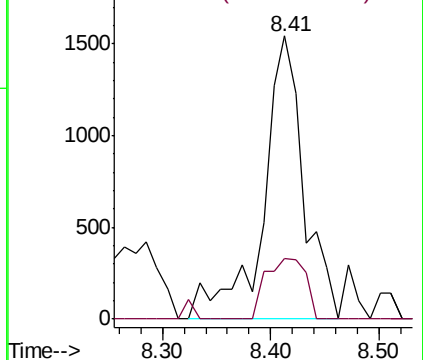
43 100

58 21.3 25.8 38.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#59

2-Hexanone

Concen: 9.289 ug/l

RT: 9.65 min Scan# 914

Delta R.T. 0.03 min

Lab File: VF060207.D

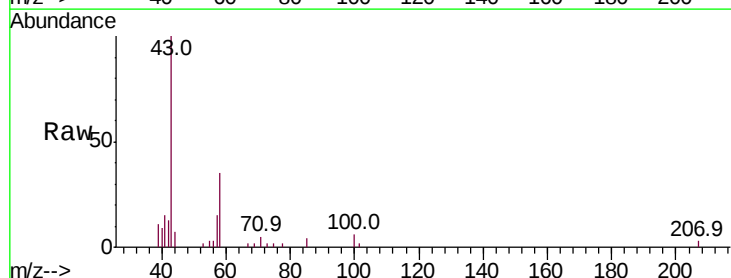
Acq: 7 Sep 2018 12:54

Tgt Ion: 43 Resp: 11285

Ion Ratio Lower Upper

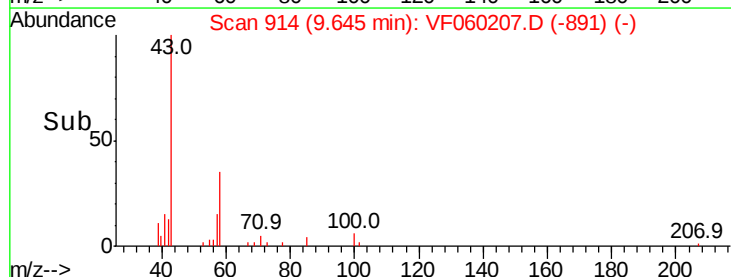
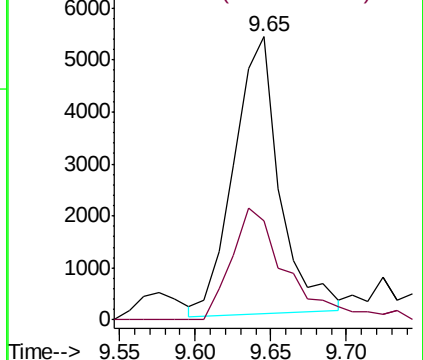
43 100

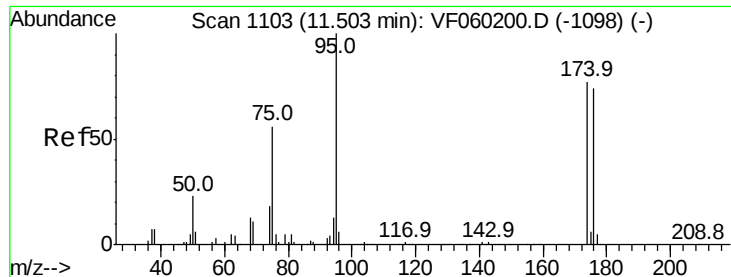
58 34.9 20.8 62.5



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 46.738 ug/l

RT: 11.51 min Scan# 1103

Delta R.T. 0.01 min

Lab File: VF060207.D

Acq: 7 Sep 2018 12:54

Instrument :

MSVOA_F

ClientSampleId :

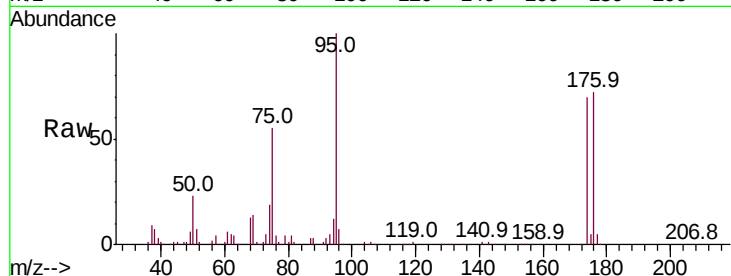
Tot Ion: 95 Resp: 153493

Ion Ratio Lower Upper

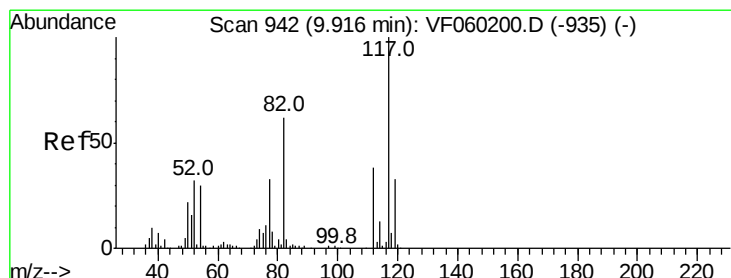
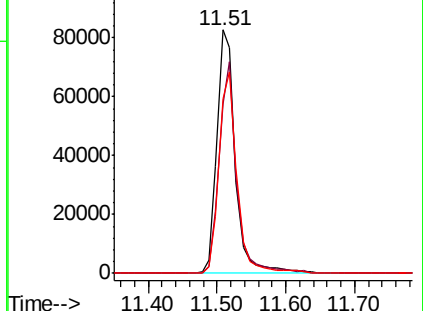
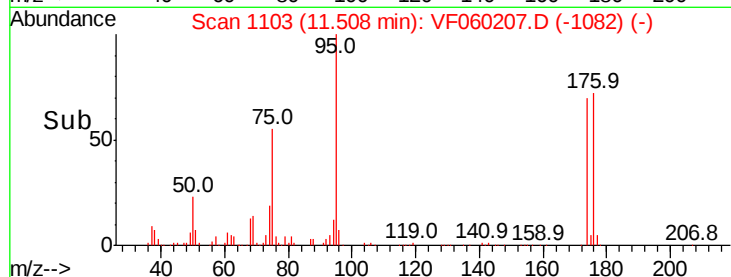
95 100

174 69.6 0.0 153.2

176 71.8 0.0 147.2



Abundance Ion 95.00 (94.70 to 95.70): VF060207.D (-921) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.92 min Scan# 942

Delta R.T. 0.01 min

Lab File: VF060207.D

Acq: 7 Sep 2018 12:54

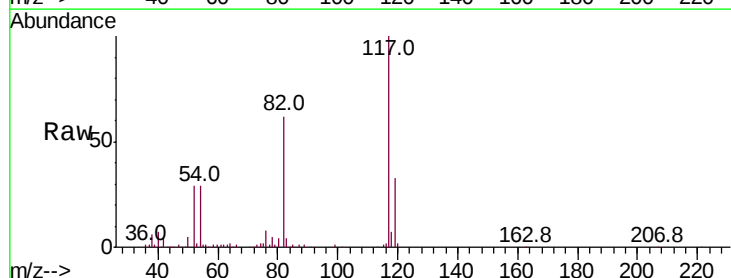
Tgt Ion: 117 Resp: 242827

Ion Ratio Lower Upper

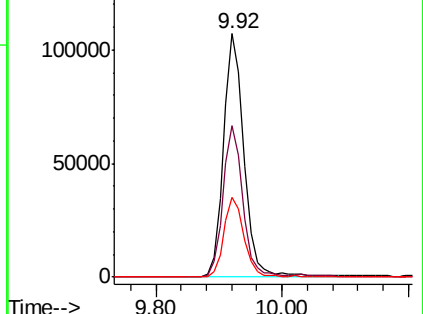
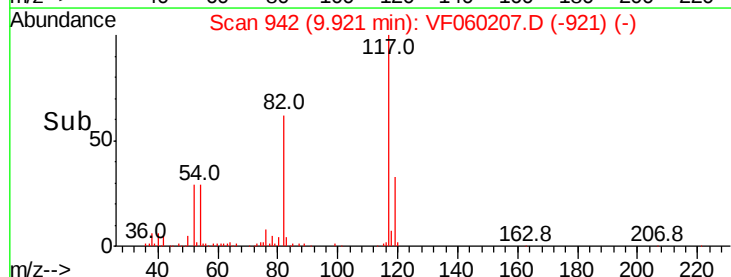
117 100

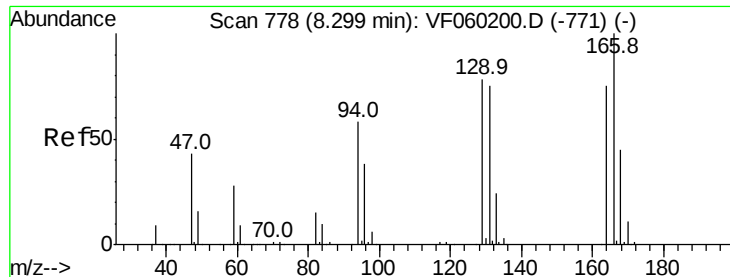
82 62.0 49.3 73.9

119 32.9 26.5 39.7



Abundance Ion 117.00 (116.70 to 117.70): VF060207.D (-921) (-)





#64

Tetrachloroethene

Concen: Below Cal

RT: 8.29 min Scan# 777

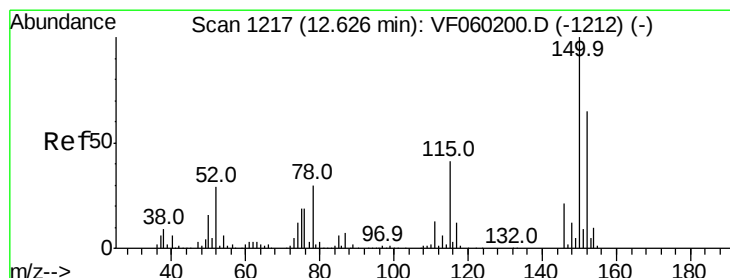
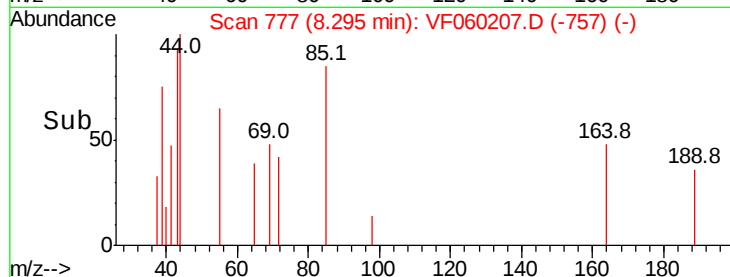
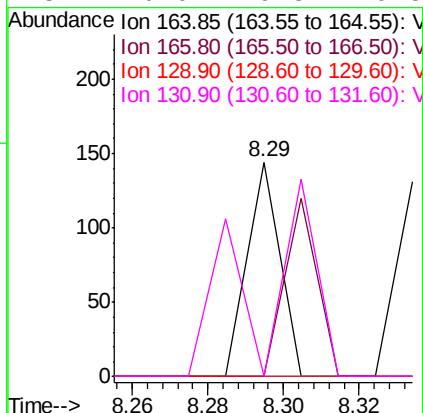
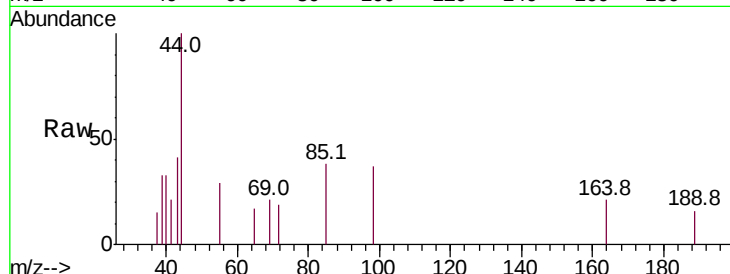
Delta R.T. -0.00 min

Lab File: VF060207.D

Acq: 7 Sep 2018 12:54

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:	164	Resp:	85
Ion	Ratio	Lower	Upper
164	100		
166	0.0	107.0	160.4#
129	0.0	83.0	124.6#
131	0.0	79.8	119.8#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

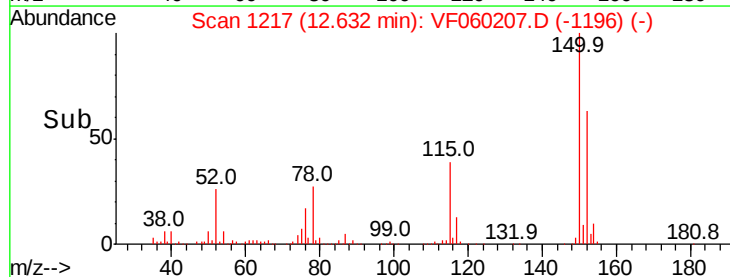
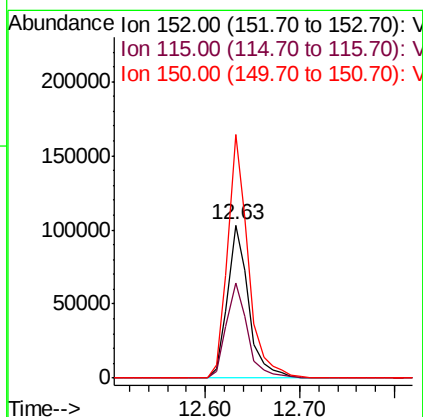
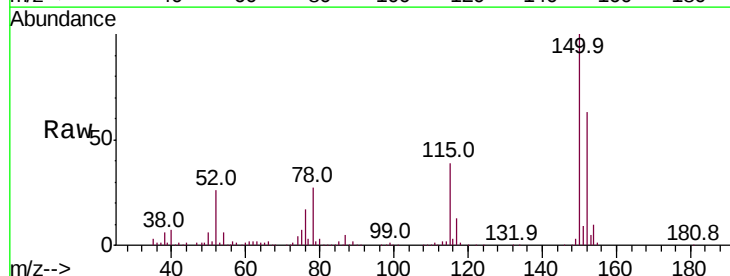
RT: 12.63 min Scan# 1217

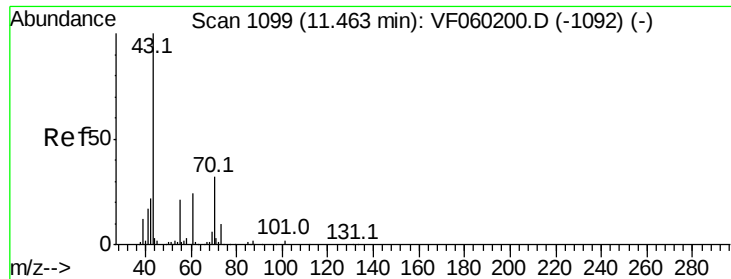
Delta R.T. 0.01 min

Lab File: VF060207.D

Acq: 7 Sep 2018 12:54

Tgt Ion:	152	Resp:	160144
Ion	Ratio	Lower	Upper
152	100		
115	61.9	31.5	94.5
150	159.4	0.0	310.4





#74

N-amvl acetate

Concen: 7.583 ug/l

RT: 11.47 min Scan# 1099

Delta R.T. 0.01 min

Lab File: VF060207.D

Acq: 7 Sep 2018 12:54

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion: 43 Resp: 6782

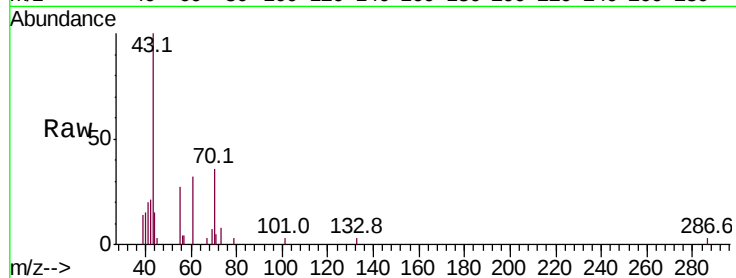
Ion Ratio Lower Upper

43 100

70 36.4 25.8 38.6

55 27.5 16.8 25.2#

61 32.4 18.9 28.3#

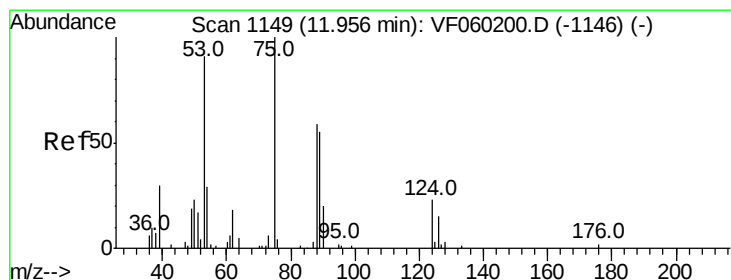
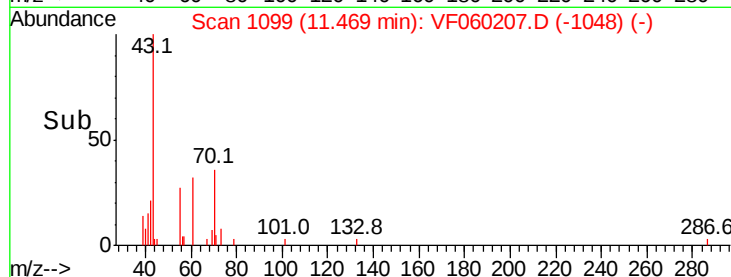
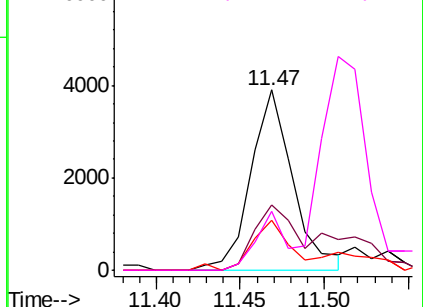


Abundance Ion 43.00 (42.70 to 43.70): VF0

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: 3.194 ug/l

RT: 11.99 min Scan# 1152

Delta R.T. 0.04 min

Lab File: VF060207.D

Acq: 7 Sep 2018 12:54

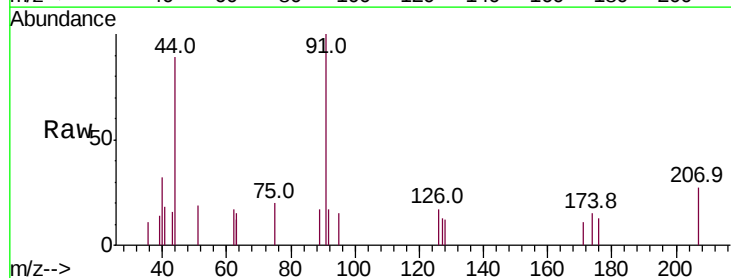
Tgt Ion: 75 Resp: 282

Ion Ratio Lower Upper

75 100

53 0.0 76.5 114.7#

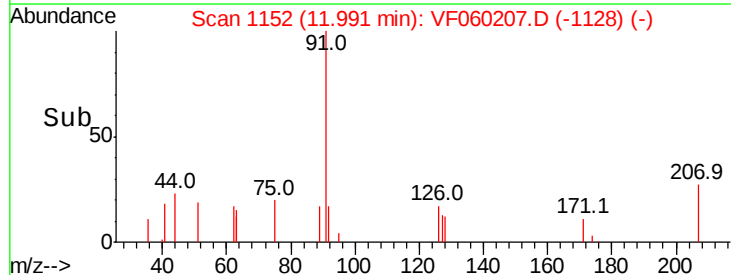
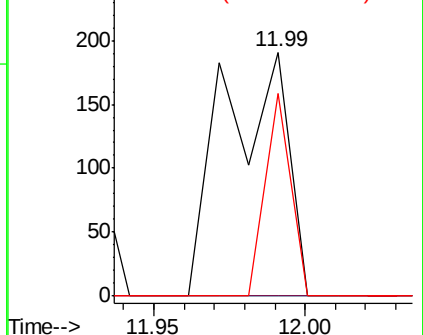
89 83.2 46.5 69.7#

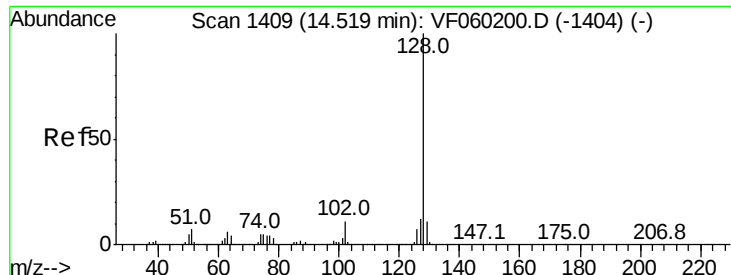


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0





#95

Naphthalene

Concen: 4.303 ug/l

RT: 14.52 min Scan# 1409

Delta R.T. 0.01 min

Lab File: VF060207.D

Acq: 7 Sep 2018 12:54

Instrument :

MSVOA_F

ClientSampleId :

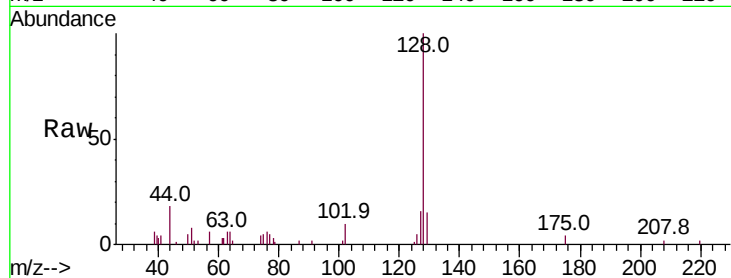
Tot Ion:128 Resp: 10817

Ion Ratio Lower Upper

128 100

127 16.1 9.9 14.9#

129 14.9 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

