

Data File : VF060701.D
Acq On : 12 Nov 2018 23:22
Operator : VA/AP
Sample : J5908-11RE
Misc : 6.06g/5mL/MSVOA-F/SOIL
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
SR-4-S

Quant Time: Nov 13 04:21:14 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F110218S.M
Quant Title : SW846 8260
QLast Update : Sat Nov 03 05:29:31 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	212449	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.59	114	390234	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	322015	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.54	152	127368	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.84	65	126170	58.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	117.56%	
35) Dibromofluoromethane	4.10	113	152821	50.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.38%	
50) Toluene-d8	7.55	98	350350	39.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	78.46%	
62) 4-Bromofluorobenzene	11.41	95	142470	36.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	72.94%	

Target Compounds

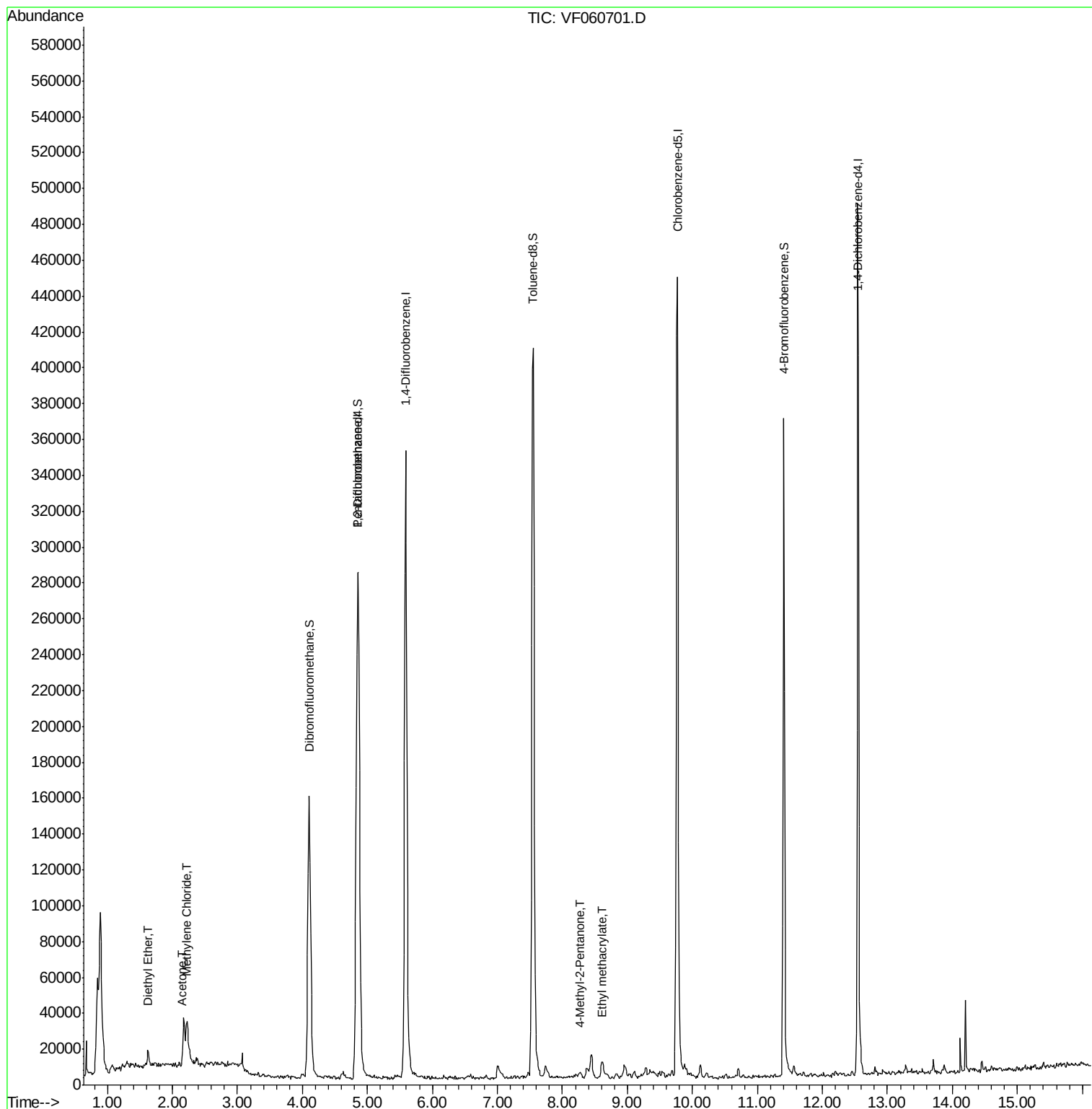
						Qvalue
2) Dichlorodifluoromethane	0.99	85	139	Below Cal	#	41
6) Chloroethane	1.46	64	64	Below Cal	#	40
8) Diethyl Ether	1.62	74	2288	3.850	ug/l	62
11) Tert butyl alcohol	2.54	59	69	Below Cal	#	1
13) Acrolein	1.89	56	343	Below Cal		98
16) Acetone	2.15	43	569	1.125	ug/l	96
20) Methylene Chloride	2.22	84	12765	3.421	ug/l	96
25) 2-Butanone	4.34	43	1014	Below Cal	#	56
29) Tetrahydrofuran	4.05	42	215	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.26	43	4117	2.347	ug/l #	83
56) Ethyl methacrylate	8.60	69	5503	2.163	ug/l #	75
58) 2-Chloroethyl Vinyl ether	7.61	63	433	Below Cal		100
59) 2-Hexanone	9.49	43	1645	Below Cal		65
74) N-amyl acetate	11.36	43	1147	Below Cal	#	71
89) n-Butylbenzene	12.84	91	914	Below Cal		94

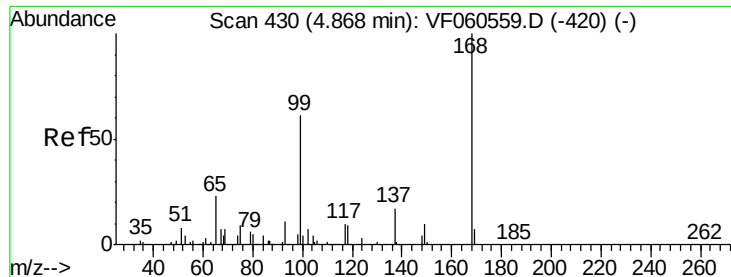
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Nov 03 05:29:31 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.01 min

Lab File: VF060701.D

Acq: 12 Nov 2018 23:22

Instrument :

MSVOA_F

ClientSampleId :

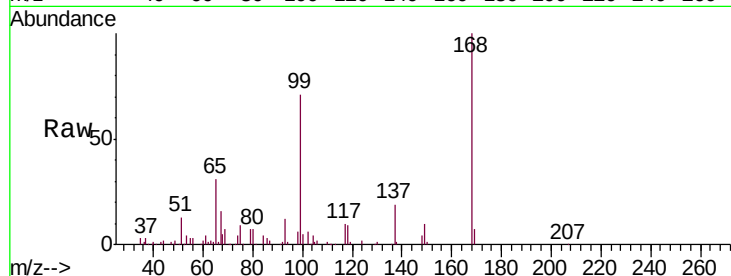
SR-4-S

Tgt Ion:168 Resp: 212449

Ion Ratio Lower Upper

168 100

99 71.2 48.6 72.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

60000

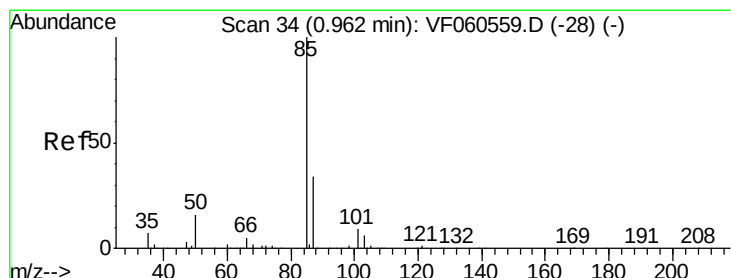
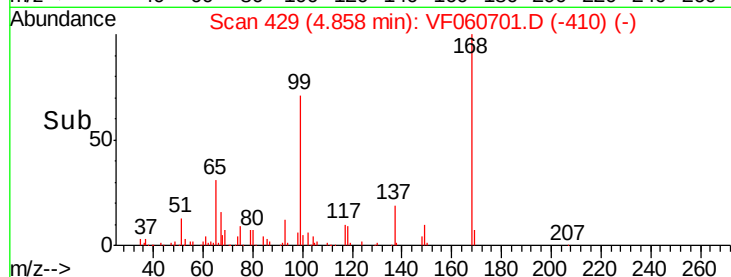
40000

20000

0

4.70 4.80 4.90 5.00

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.99 min Scan# 37

Delta R.T. 0.03 min

Lab File: VF060701.D

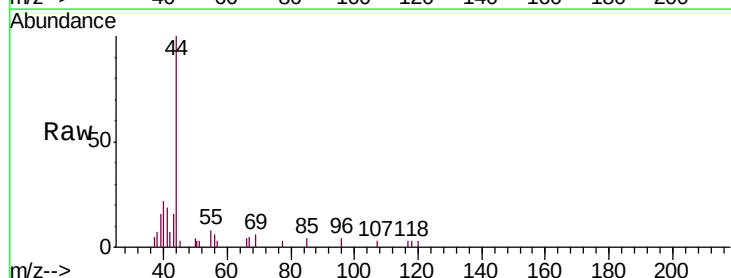
Acq: 12 Nov 2018 23:22

Tgt Ion: 85 Resp: 139

Ion Ratio Lower Upper

85 100

87 0.0 16.9 50.7#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

150

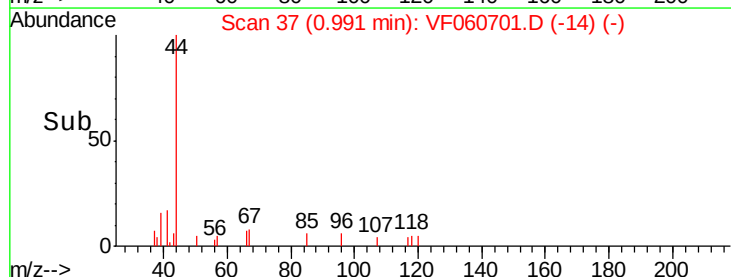
100

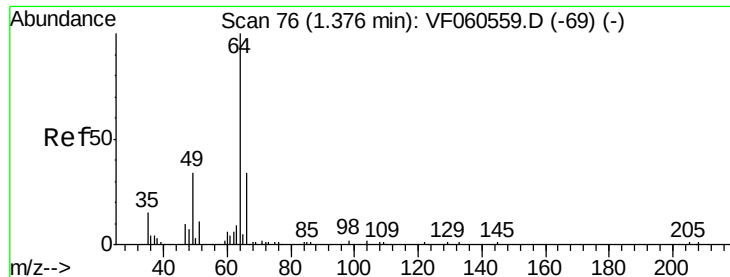
50

0

0.96 0.98 1.00 1.02

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.46 min Scan# 85

Delta R.T. 0.09 min

Lab File: VF060701.D

Acq: 12 Nov 2018 23:22

Instrument :

MSVOA_F

ClientSampled :

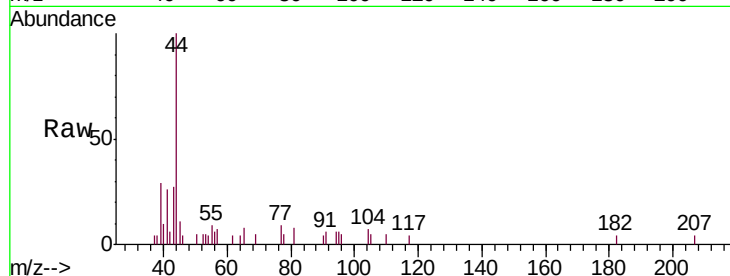
SR-4-S

Tgt Ion: 64 Resp: 64

Ion Ratio Lower Upper

64 100

66 0.0 27.8 41.8#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0

1.44 1.46 1.48

200

150

100

50

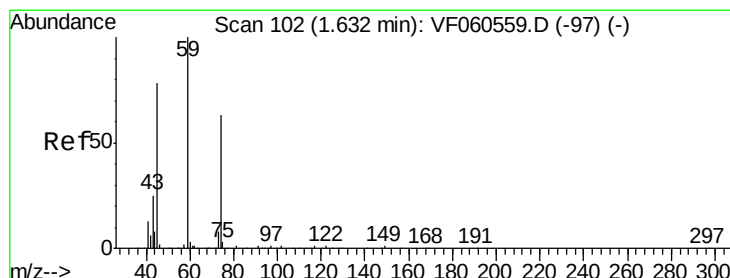
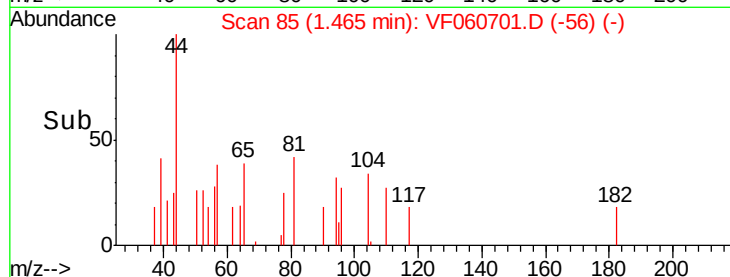
0

1.44 1.46 1.48

1.46

1.48

Time-->



#8

Diethyl Ether

Concen: 3.850 ug/l

RT: 1.62 min Scan# 101

Delta R.T. -0.01 min

Lab File: VF060701.D

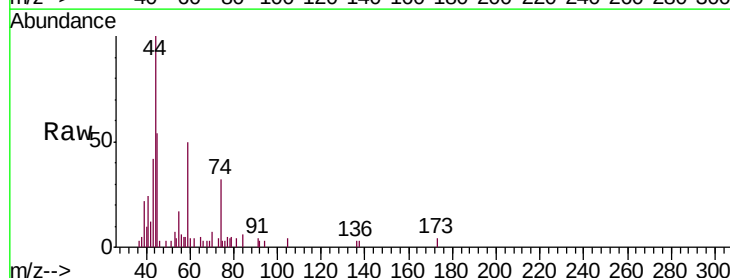
Acq: 12 Nov 2018 23:22

Tgt Ion: 74 Resp: 2288

Ion Ratio Lower Upper

74 100

45 171.8 63.8 191.5



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

2500

2000

1500

1000

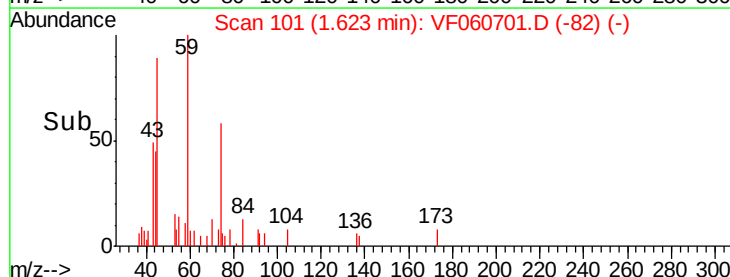
500

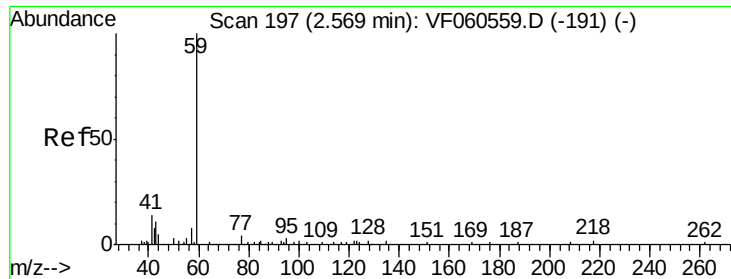
0

1.55 1.60 1.65

1.62

Time-->

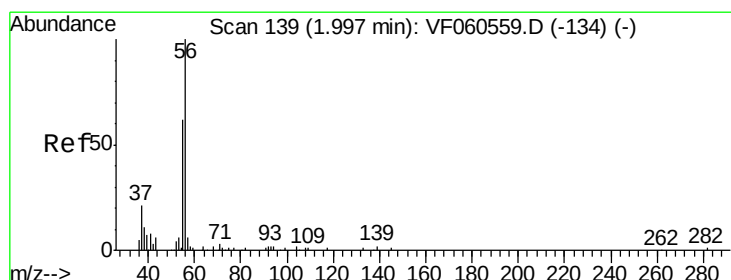
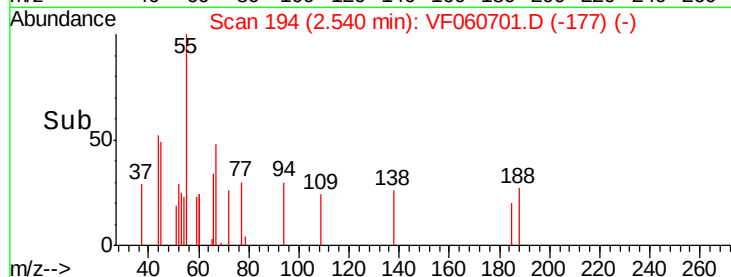
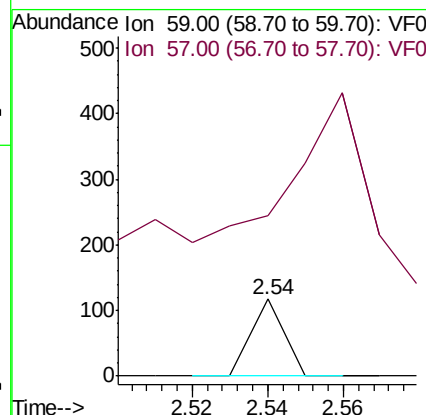
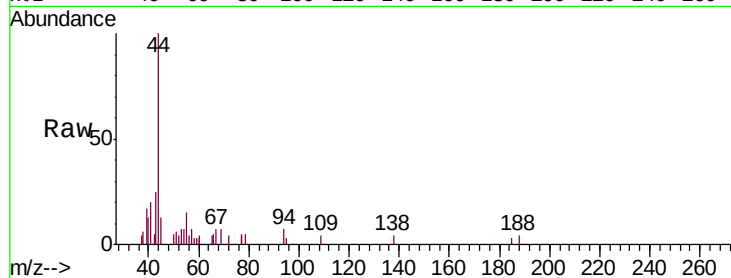




#11
Tert butyl alcohol
Concen: Below Cal
RT: 2.54 min Scan# 194
Delta R.T. -0.03 min
Lab File: VF060701.D
Acq: 12 Nov 2018 23:22

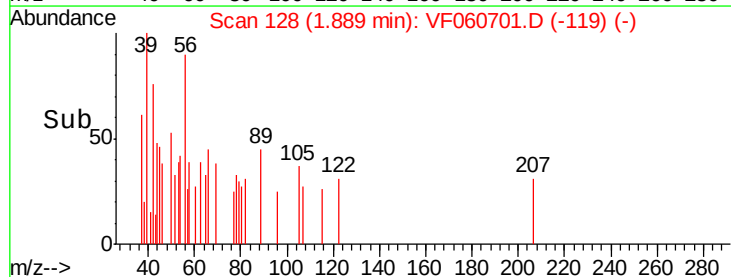
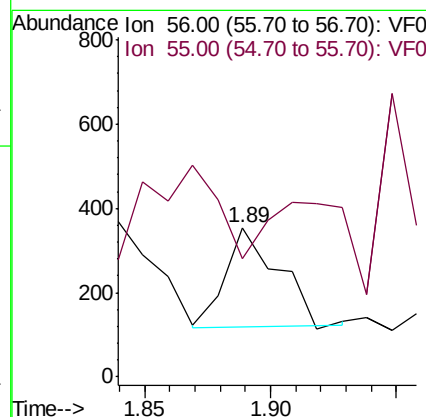
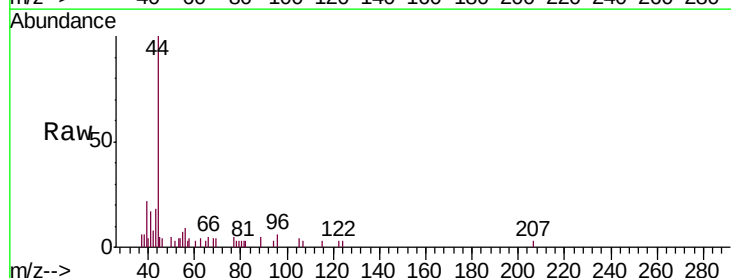
Instrument :
MSVOA_F
ClientSampleId :
SR-4-S

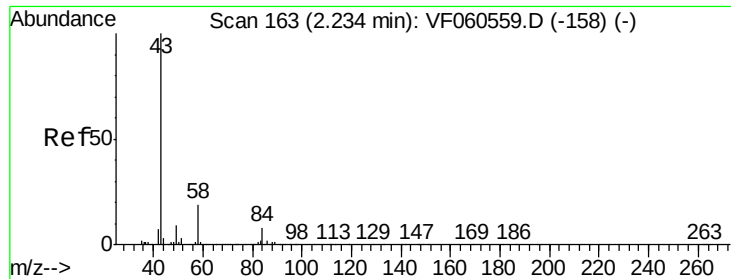
Tgt Ion: 59 Resp: 69
Ion Ratio Lower Upper
59 100
57 209.4 19.0 28.4#



#13
Acrolein
Concen: Below Cal
RT: 1.89 min Scan# 128
Delta R.T. -0.11 min
Lab File: VF060701.D
Acq: 12 Nov 2018 23:22

Tgt Ion: 56 Resp: 343
Ion Ratio Lower Upper
56 100
55 79.2 61.8 92.6

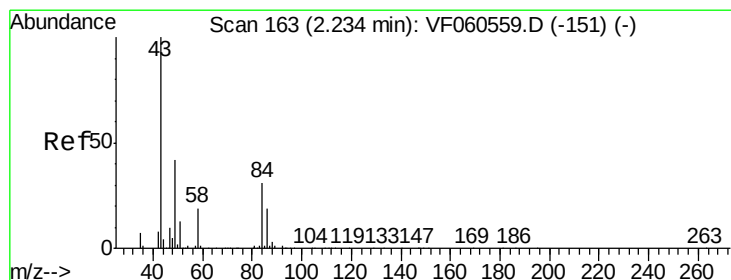
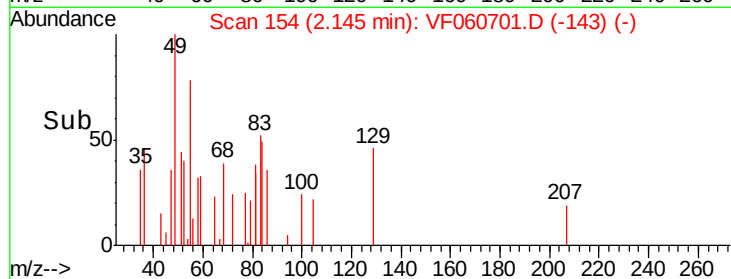
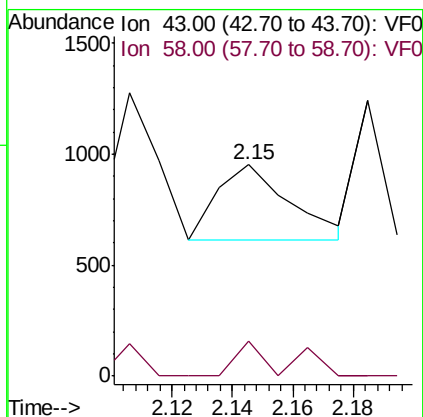
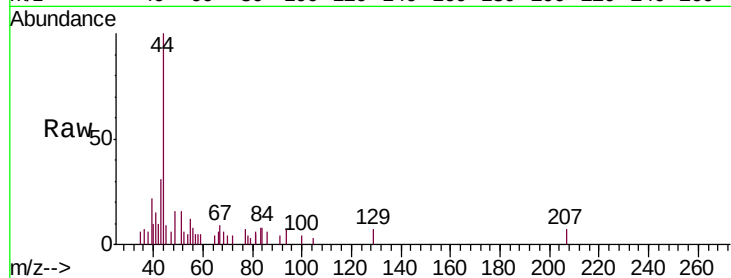




#16
Acetone
Concen: 1.125 ug/l
RT: 2.15 min Scan# 154
Delta R.T. -0.09 min
Lab File: VF060701.D
Acq: 12 Nov 2018 23:22

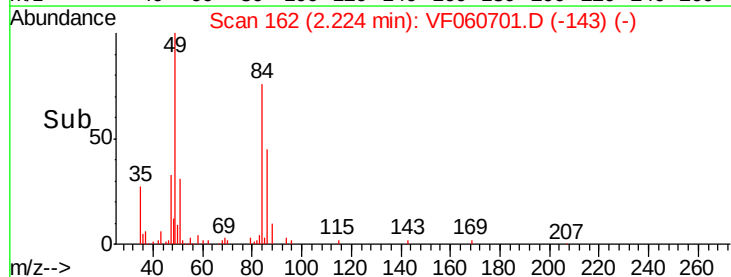
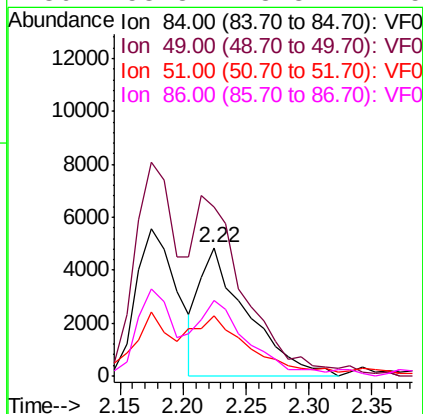
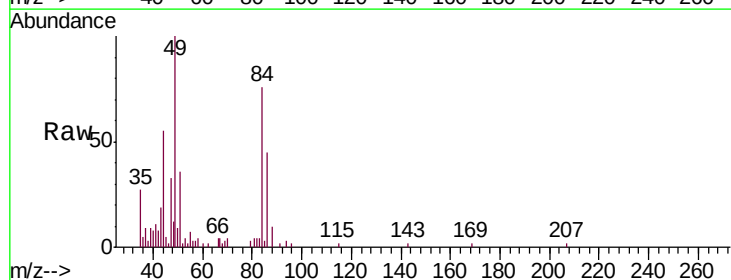
Instrument :
MSVOA_F
ClientSampled :
SR-4-S

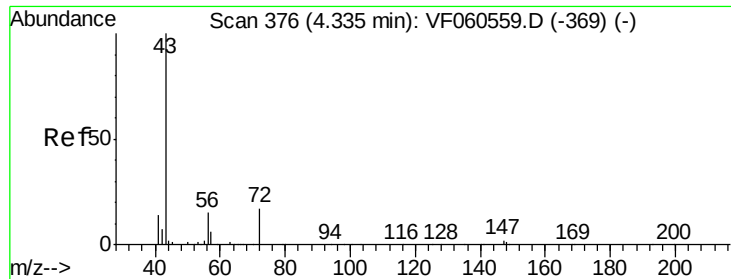
Tgt Ion: 43 Resp: 569
Ion Ratio Lower Upper
43 100
58 16.4 14.6 22.0



#20
Methylene Chloride
Concen: 3.421 ug/l
RT: 2.22 min Scan# 162
Delta R.T. -0.01 min
Lab File: VF060701.D
Acq: 12 Nov 2018 23:22

Tgt Ion: 84 Resp: 12765
Ion Ratio Lower Upper
84 100
49 132.2 109.9 164.9
51 46.9 35.8 53.8
86 58.8 48.3 72.5





#25

2-Butanone

Concen: Below Cal

RT: 4.34 min Scan# 376

Delta R.T. 0.00 min

Lab File: VF060701.D

Acq: 12 Nov 2018 23:22

Instrument :

MSVOA_F

ClientSampleId :

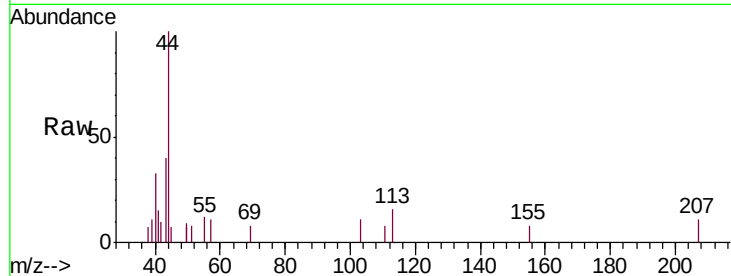
SR-4-S

Tgt Ion: 43 Resp: 1014

Ion Ratio Lower Upper

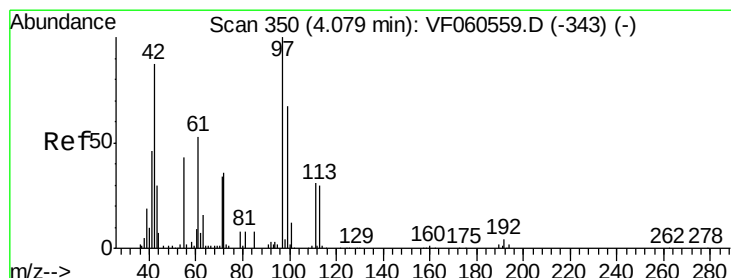
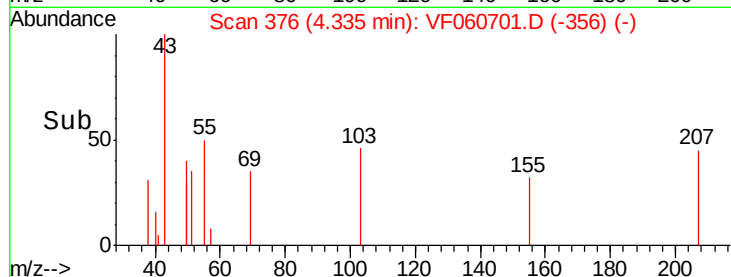
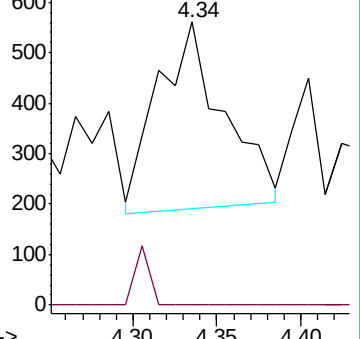
43 100

72 0.0 16.2 24.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.05 min Scan# 347

Delta R.T. -0.03 min

Lab File: VF060701.D

Acq: 12 Nov 2018 23:22

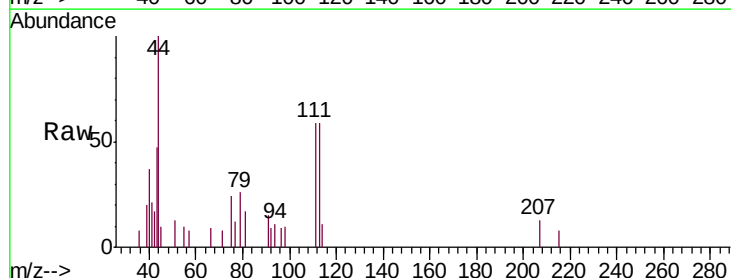
Tgt Ion: 42 Resp: 215

Ion Ratio Lower Upper

42 100

72 105.6 31.4 47.0#

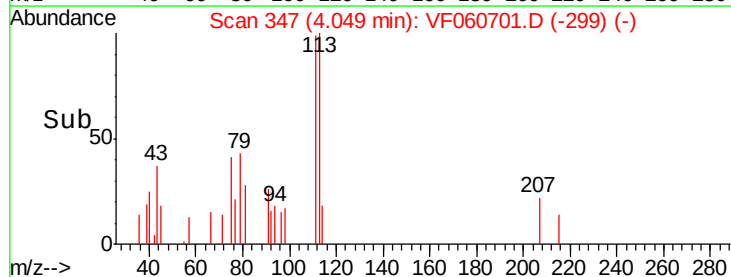
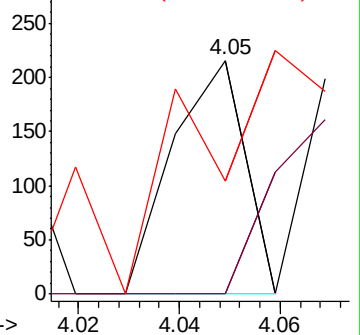
71 194.0 31.8 47.6#

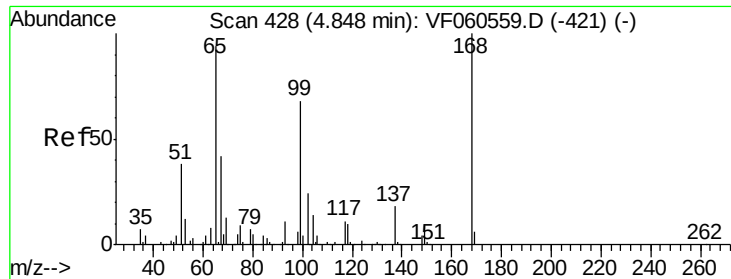


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0

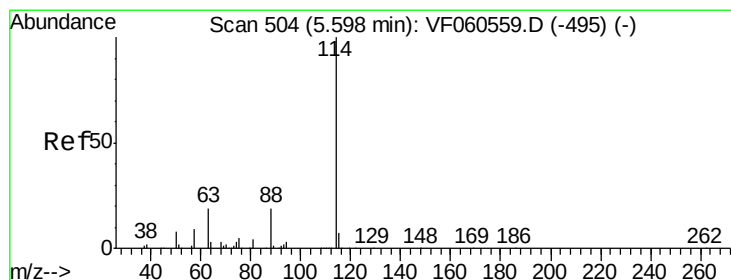
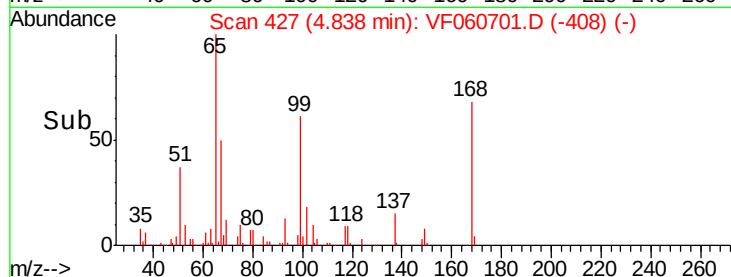
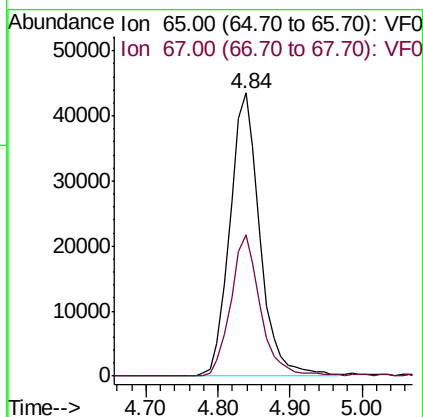
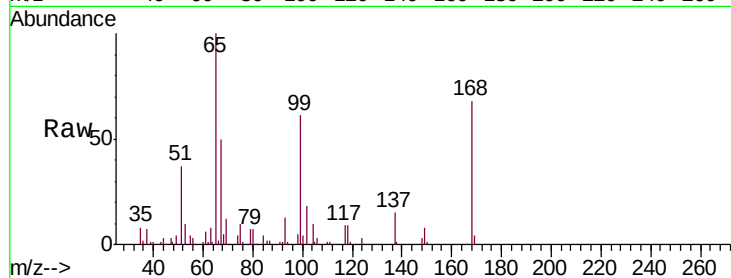




#33
 1,2-Dichloroethane-d4
 Concen: 58.779 ug/l
 RT: 4.84 min Scan# 427
 Delta R.T. -0.01 min
 Lab File: VF060701.D
 Acq: 12 Nov 2018 23:22

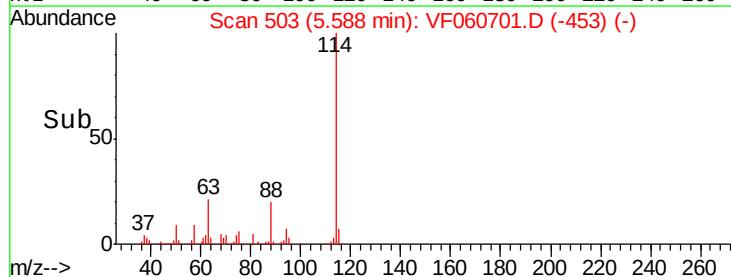
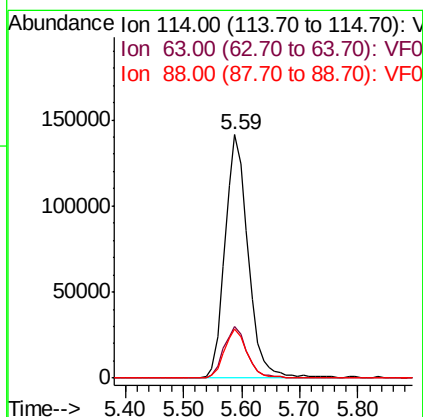
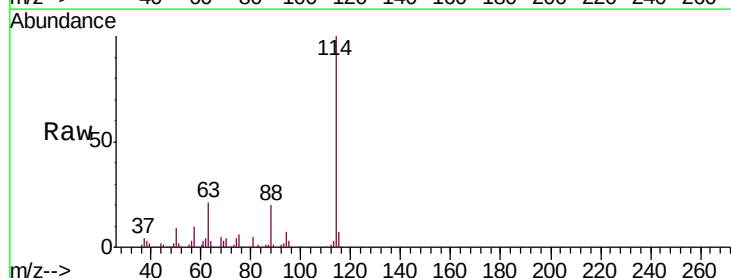
Instrument :
 MSVOA_F
 ClientSampleID :
 SR-4-S

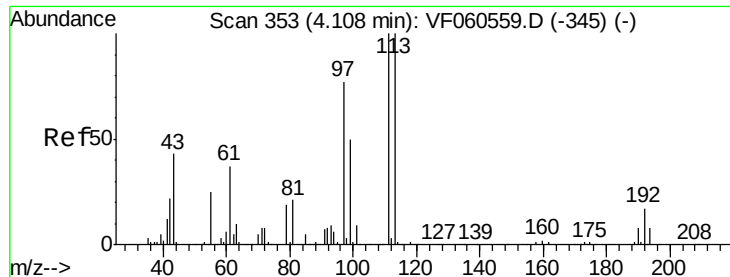
Tgt Ion: 65 Resp: 126170
 Ion Ratio Lower Upper
 65 100
 67 50.1 0.0 101.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.59 min Scan# 503
 Delta R.T. -0.01 min
 Lab File: VF060701.D
 Acq: 12 Nov 2018 23:22

Tgt Ion: 114 Resp: 390234
 Ion Ratio Lower Upper
 114 100
 63 21.4 0.0 39.0
 88 20.3 0.0 38.2





#35

Dibromofluoromethane

Concen: 50.688 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.01 min

Lab File: VF060701.D

Acq: 12 Nov 2018 23:22

Instrument :

MSVOA_F

ClientSampleId :

SR-4-S

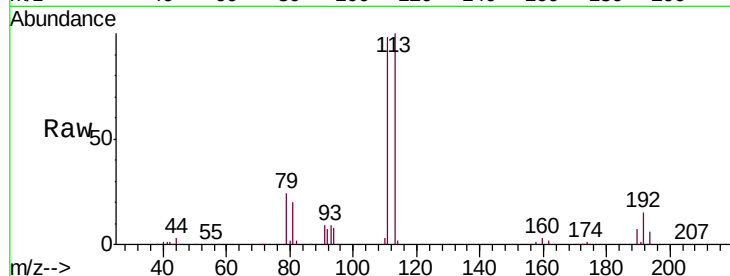
Tgt Ion:113 Resp: 152821

Ion Ratio Lower Upper

113 100

111 98.4 79.9 119.9

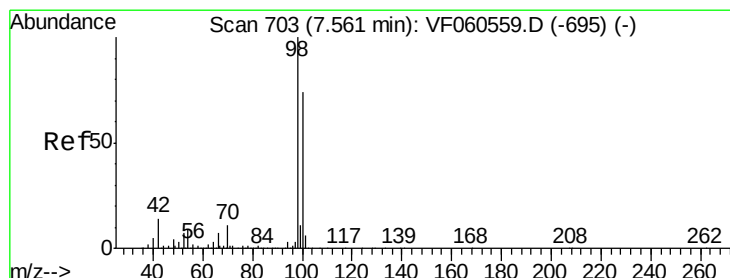
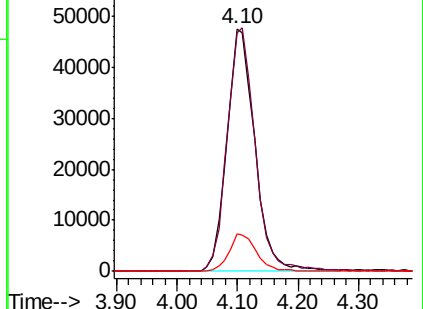
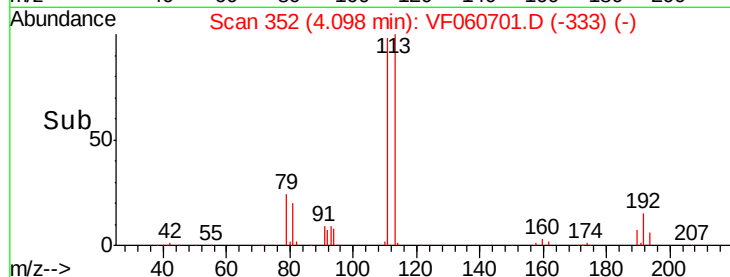
192 15.2 13.3 19.9



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



#50

Toluene-d8

Concen: 39.228 ug/l

RT: 7.55 min Scan# 702

Delta R.T. -0.01 min

Lab File: VF060701.D

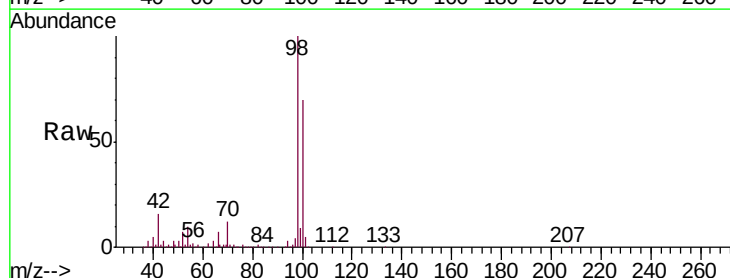
Acq: 12 Nov 2018 23:22

Tgt Ion: 98 Resp: 350350

Ion Ratio Lower Upper

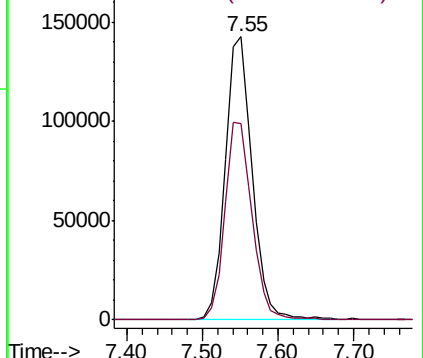
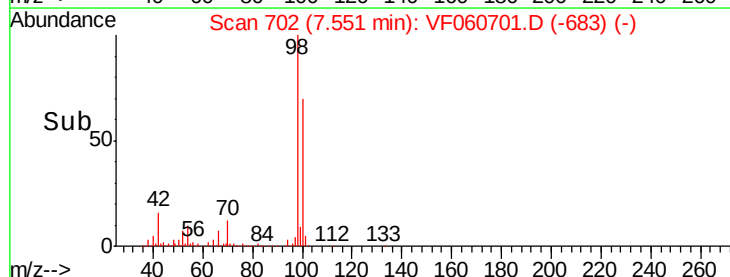
98 100

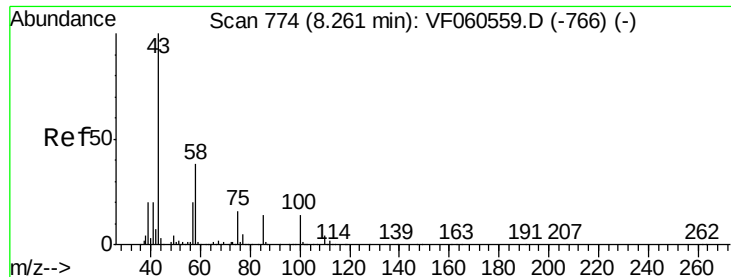
100 69.5 59.4 89.2



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF

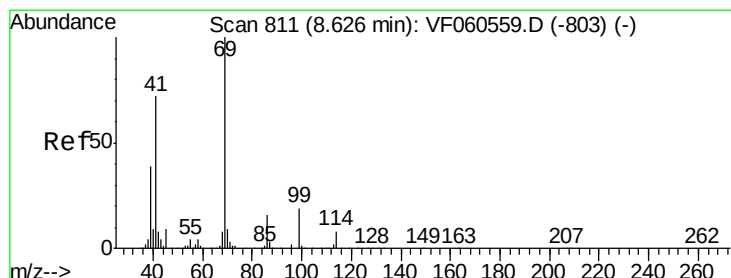
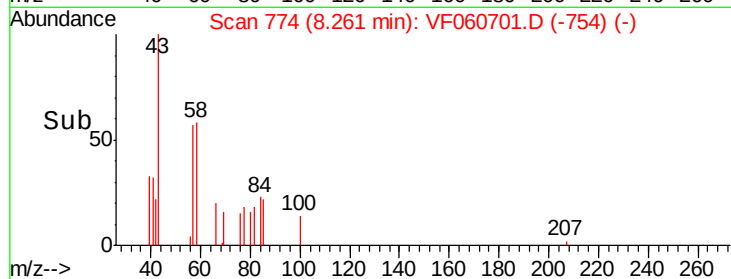
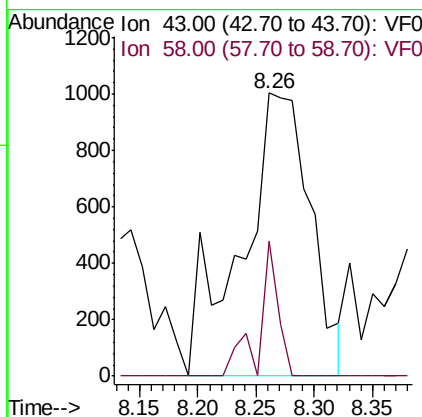
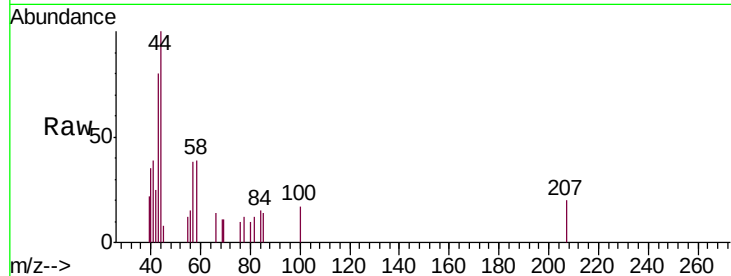




#51
 4-Methyl-2-Pentanone
 Concen: 2.347 ug/l
 RT: 8.26 min Scan# 774
 Delta R.T. 0.00 min
 Lab File: VF060701.D
 Acq: 12 Nov 2018 23:22

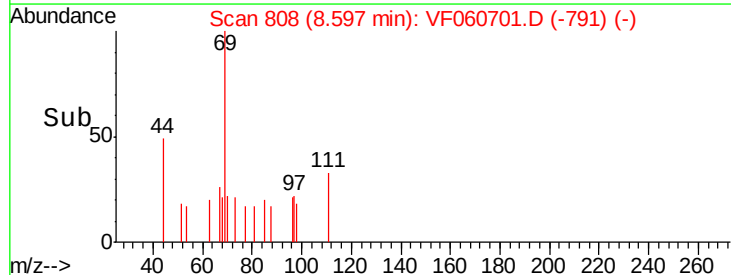
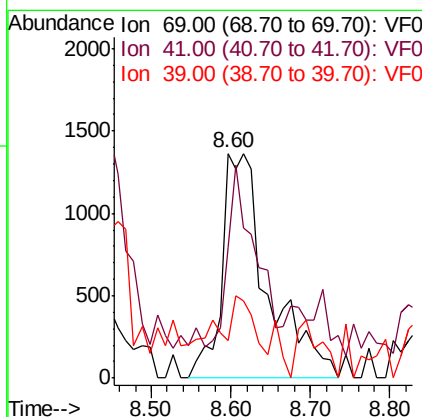
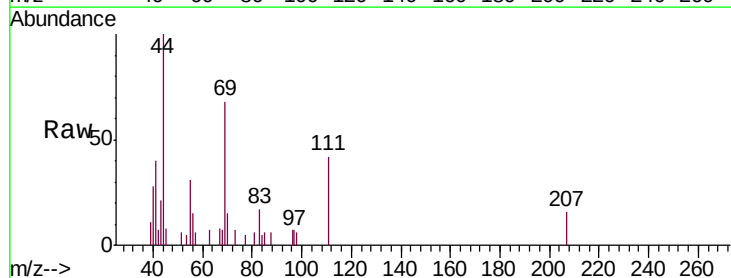
Instrument :
 MSVOA_F
 ClientSampleId :
 SR-4-S

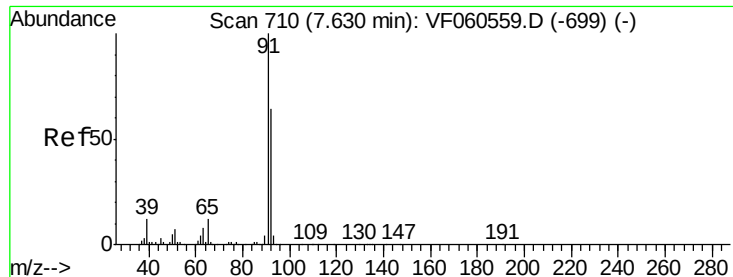
Tgt Ion: 43 Resp: 4117
 Ion Ratio Lower Upper
 43 100
 58 47.9 30.1 45.1#



#56
 Ethyl methacrylate
 Concen: 2.163 ug/l
 RT: 8.60 min Scan# 808
 Delta R.T. -0.03 min
 Lab File: VF060701.D
 Acq: 12 Nov 2018 23:22

Tgt Ion: 69 Resp: 5503
 Ion Ratio Lower Upper
 69 100
 41 58.5 59.2 88.8#
 39 16.7 32.3 48.5#





#58

2-Chloroethyl Vinyl ether

Concen: Below Cal

RT: 7.61 min Scan# 708

Delta R.T. -0.02 min

Lab File: VF060701.D

Acq: 12 Nov 2018 23:22

Instrument :

MSVOA_F

ClientSampleId :

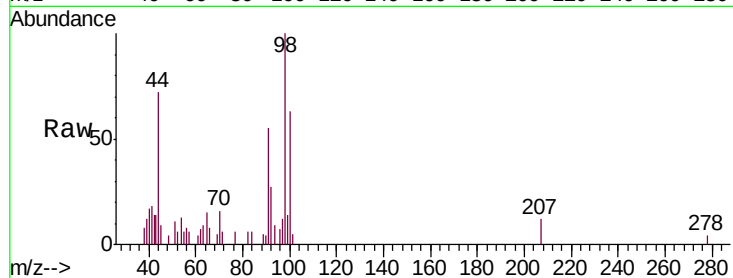
SR-4-S

Tgt Ion: 63 Resp: 433

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

400

300

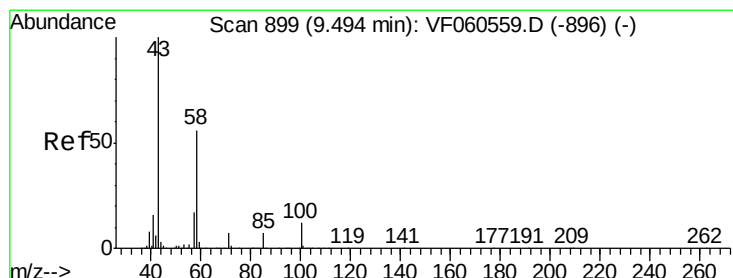
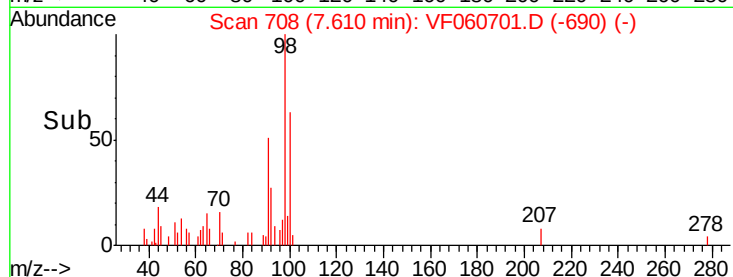
200

100

0

7.60 7.65

Time-->



#59

2-Hexanone

Concen: Below Cal

RT: 9.49 min Scan# 899

Delta R.T. 0.00 min

Lab File: VF060701.D

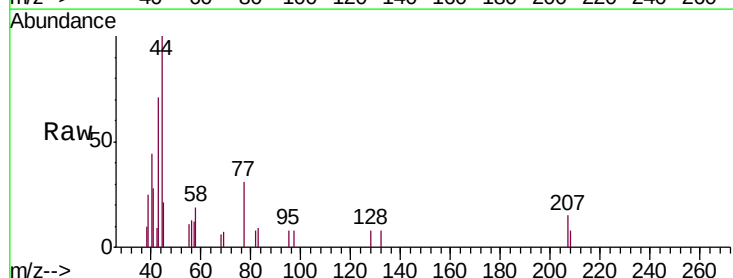
Acq: 12 Nov 2018 23:22

Tgt Ion: 43 Resp: 1645

Ion Ratio Lower Upper

43 100

58 27.3 26.1 78.3



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

1200

1000

800

600

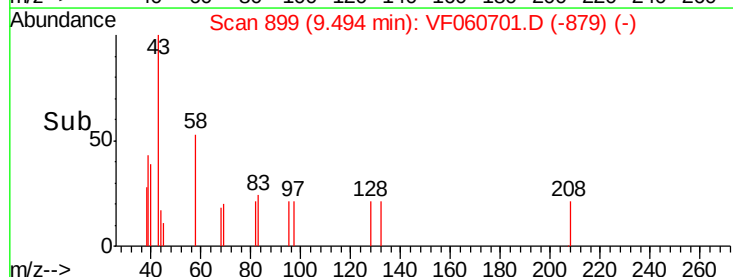
400

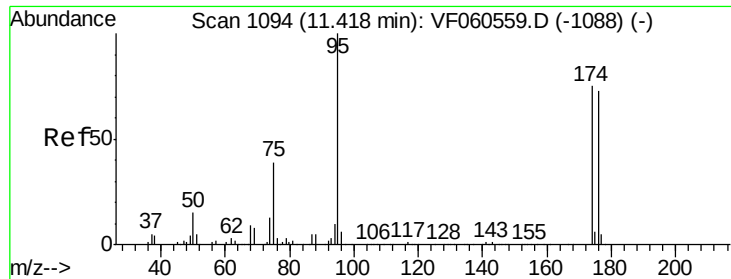
200

0

9.45 9.50 9.55

Time-->





#62

4-Bromofluorobenzene

Concen: 36.469 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.01 min

Lab File: VF060701.D

Acq: 12 Nov 2018 23:22

Instrument :

MSVOA_F

ClientSampleId :

SR-4-S

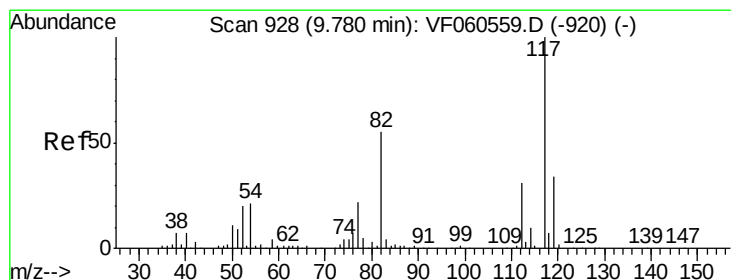
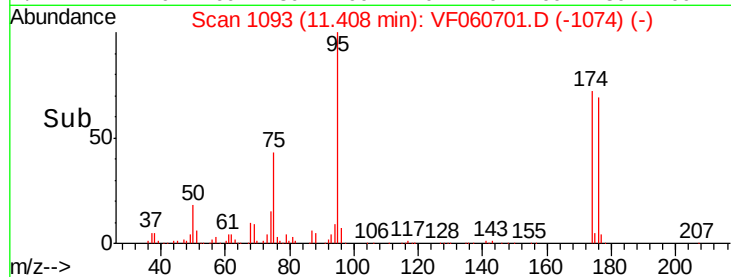
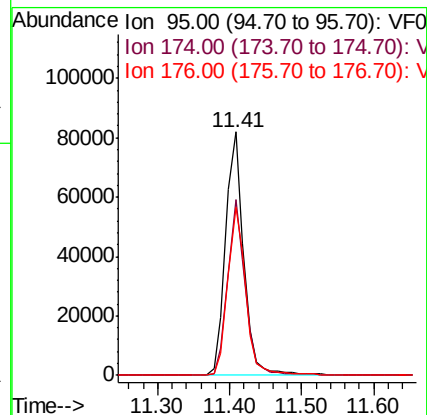
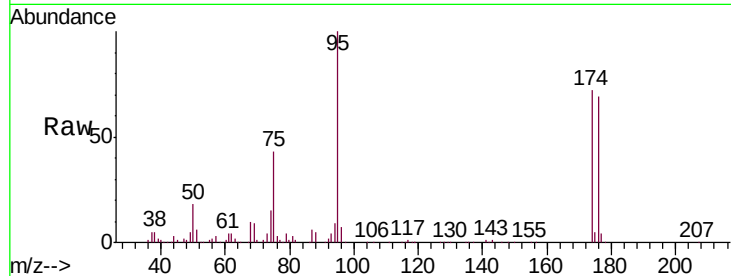
Tgt Ion: 95 Resp: 142470

Ion Ratio Lower Upper

95 100

174 72.0 0.0 149.0

176 69.0 0.0 145.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.77 min Scan# 927

Delta R.T. -0.01 min

Lab File: VF060701.D

Acq: 12 Nov 2018 23:22

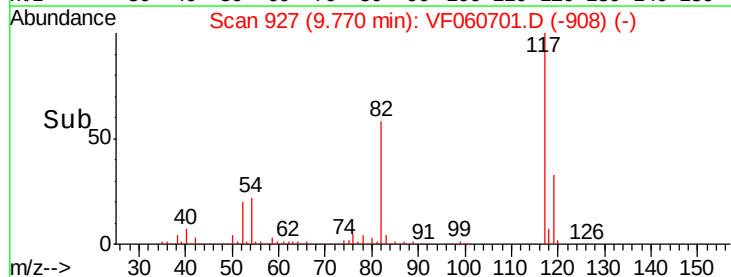
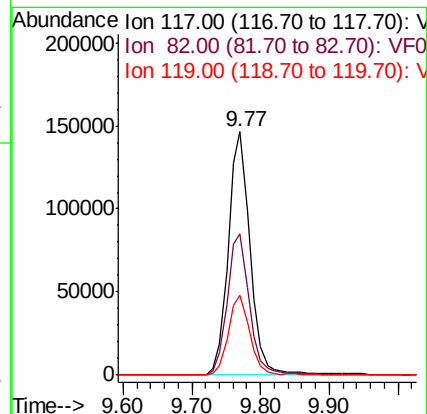
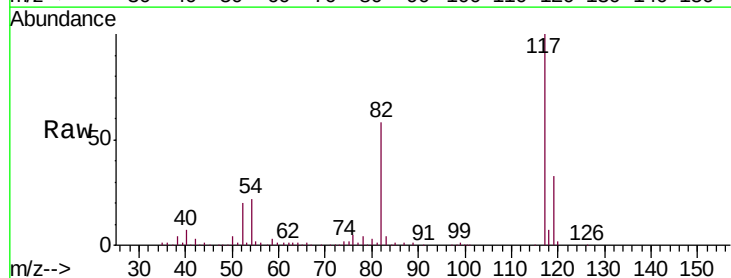
Tgt Ion: 117 Resp: 322015

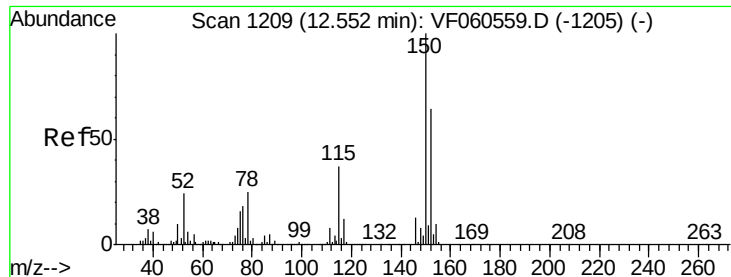
Ion Ratio Lower Upper

117 100

82 58.0 43.9 65.9

119 32.5 27.4 41.0



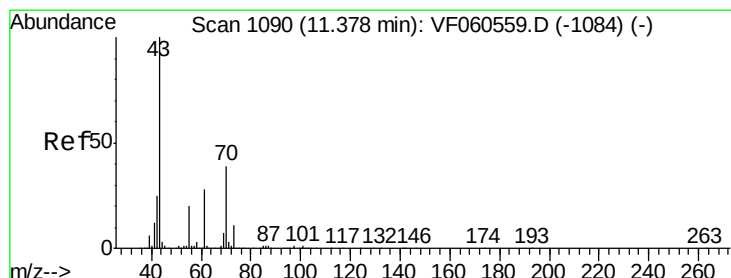
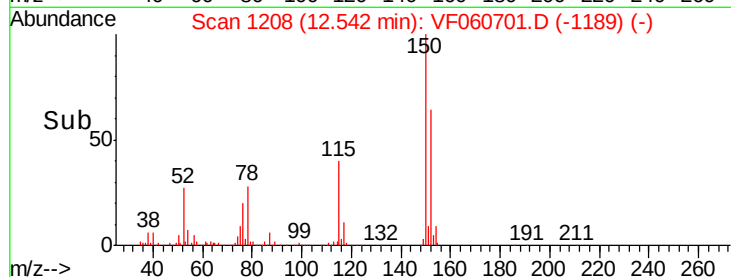
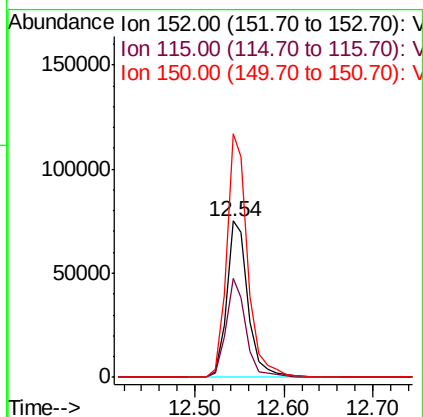
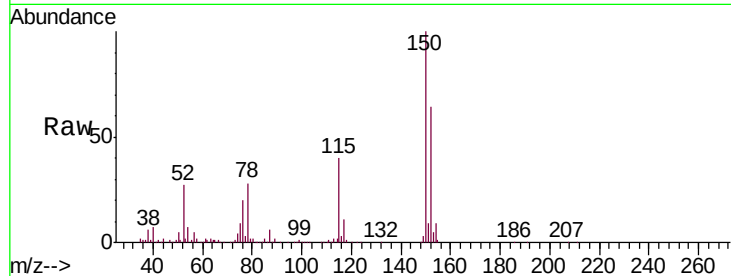


#72

1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.54 min Scan# 1208
 Delta R.T. -0.01 min
 Lab File: VF060701.D
 Acq: 12 Nov 2018 23:22

Instrument :
 MSVOA_F
 ClientSampled :
 SR-4-S

Tgt Ion	Ratio	Lower	Upper
152	100		
115	63.0	29.6	88.8
150	155.6	0.0	315.6



#74

N-amil acetate
 Concen: Below Cal
 RT: 11.36 min Scan# 1088
 Delta R.T. -0.02 min
 Lab File: VF060701.D
 Acq: 12 Nov 2018 23:22

Tgt Ion	Ratio	Lower	Upper
43	100		
70	27.2	30.9	46.3#
55	27.5	16.6	24.8#
61	0.0	22.0	33.0#

