

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF021419\
 Data File : VF061633.D
 Acq On : 14 Feb 2019 11:35
 Operator : VA/AP
 Sample : VF0214SBL01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0214SBL01

Quant Time: Feb 15 00:45:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F021319S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 14 03:27:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	326105	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	5.59	114	510751	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.77	117	446219	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.55	152	264723	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	134420	56.21	ug/l	-0.02
Spiked Amount 50.000			Recovery =	112.42%		
35) Dibromofluoromethane	4.10	113	198250	52.27	ug/l	-0.02
Spiked Amount 50.000			Recovery =	104.54%		
50) Toluene-d8	7.55	98	567201	52.02	ug/l	0.00
Spiked Amount 50.000			Recovery =	104.04%		
62) 4-Bromofluorobenzene	11.41	95	245278	55.60	ug/l	0.00
Spiked Amount 50.000			Recovery =	111.20%		

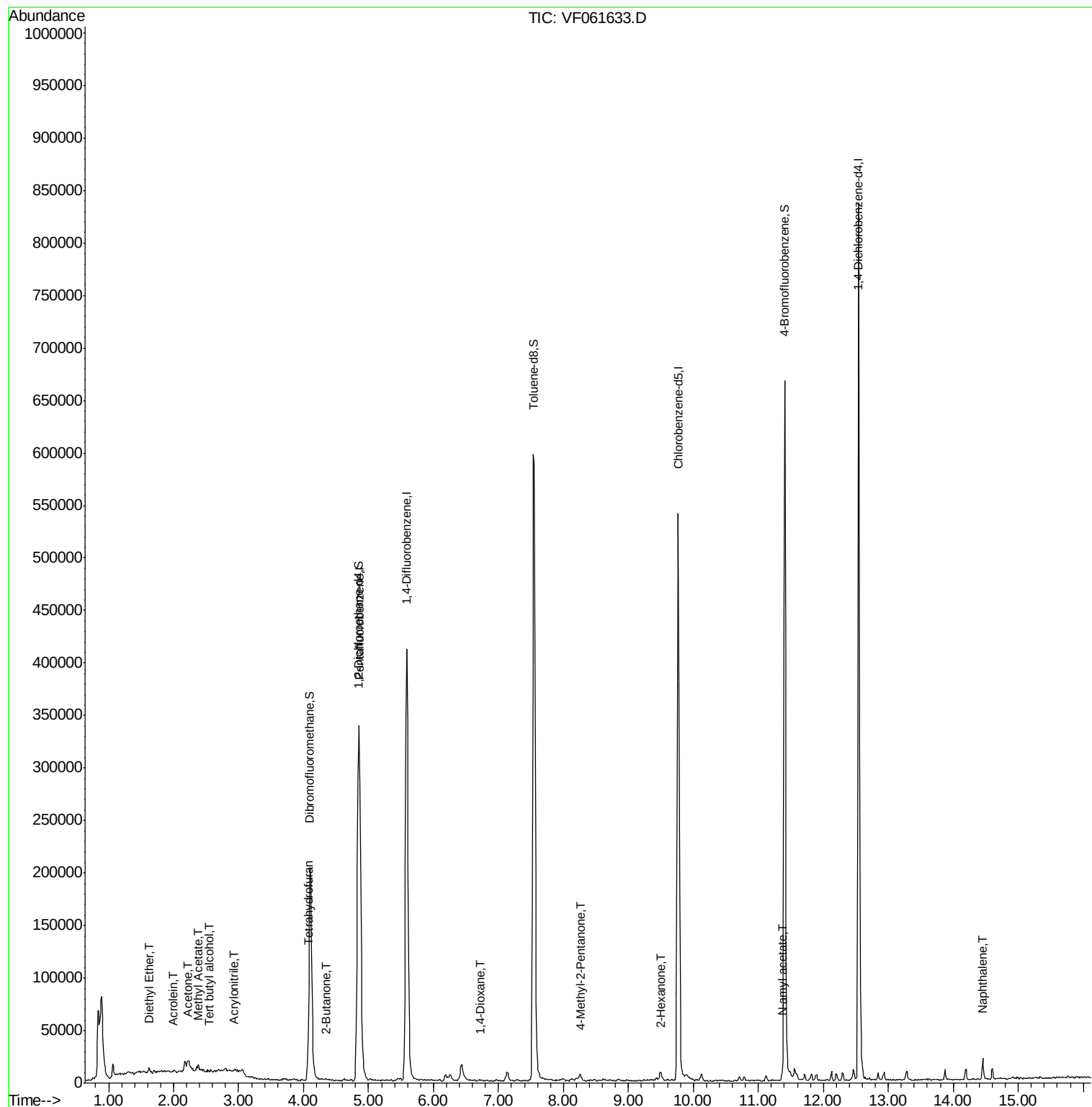
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	1.62	74	1487	1.339	ug/l	96
11) Tert butyl alcohol	2.54	59	490	3.541	ug/l #	1
13) Acrolein	2.01	56	624	3.587	ug/l #	40
15) Acrylonitrile	2.94	53	1938	3.948	ug/l	88
16) Acetone	2.24	43	3185	6.208	ug/l #	76
18) Methyl Acetate	2.38	43	3350	2.898	ug/l #	59
20) Methylene Chloride	2.18	84	5032	Below Cal		89
25) 2-Butanone	4.35	43	1696	1.513	ug/l #	79
29) Tetrahydrofuran	4.07	42	1948	3.824	ug/l #	71
49) 1,4-Dioxane	6.70	88	195	12.391	ug/l #	7
51) 4-Methyl-2-Pentanone	8.26	43	5638	2.837	ug/l	94
59) 2-Hexanone	9.49	43	7279	5.224	ug/l	80
74) N-amyl acetate	11.37	43	5591	1.236	ug/l	97
95) Naphthalene	14.45	128	14453	1.335	ug/l	99

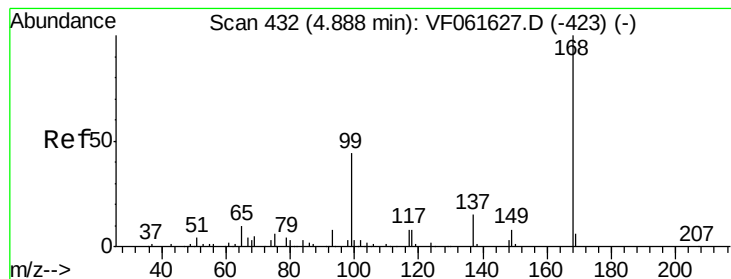
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Feb 14 03:27:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.03 min

Lab File: VF061633.D

Acq: 14 Feb 2019 11:35

Instrument :

MSVOA_F

ClientSampleId :

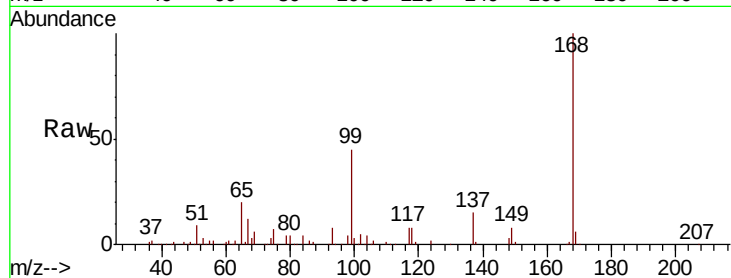
VF0214SBL01

Tgt Ion:168 Resp: 326105

Ion Ratio Lower Upper

168 100

99 45.2 34.9 52.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

120000

100000

80000

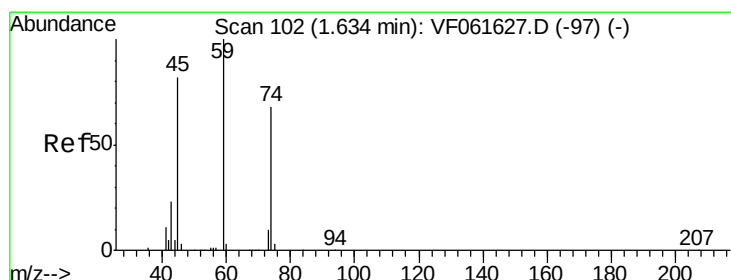
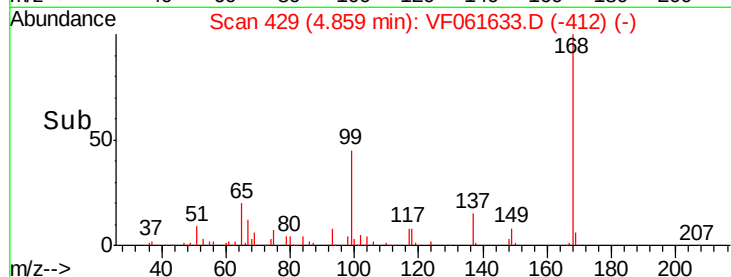
60000

40000

20000

0

Time-->



#8

Diethyl Ether

Concen: 1.339 ug/l

RT: 1.62 min Scan# 101

Delta R.T. -0.01 min

Lab File: VF061633.D

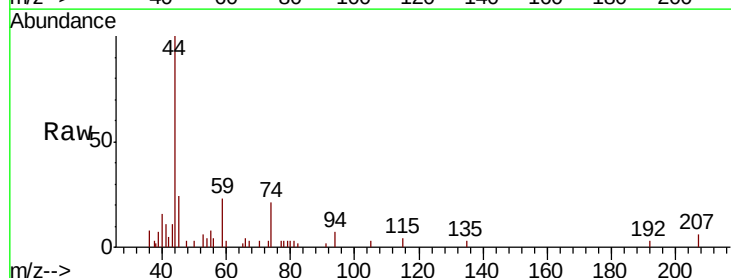
Acq: 14 Feb 2019 11:35

Tgt Ion: 74 Resp: 1487

Ion Ratio Lower Upper

74 100

45 116.7 60.8 182.3



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

1.62

1200

1000

800

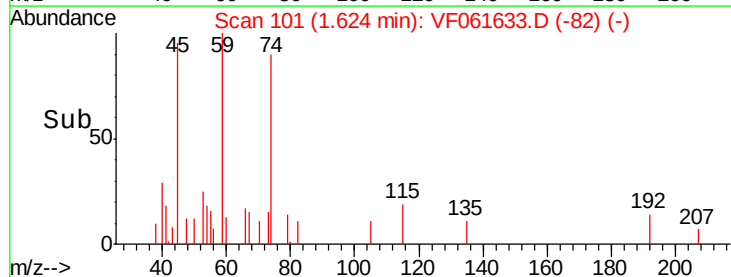
600

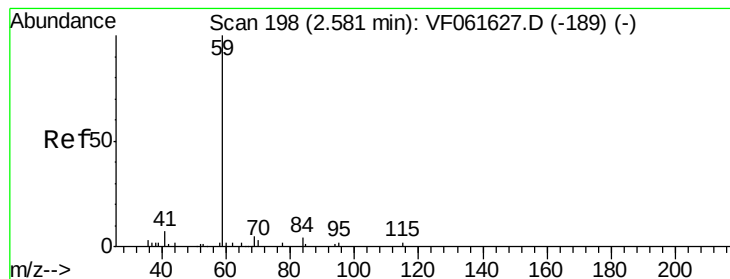
400

200

0

Time-->





#11

Tert butyl alcohol

Concen: 3.541 ug/l

RT: 2.54 min Scan# 194

Delta R.T. -0.04 min

Lab File: VF061633.D

Acq: 14 Feb 2019 11:35

Instrument :

MSVOA_F

ClientSampleId :

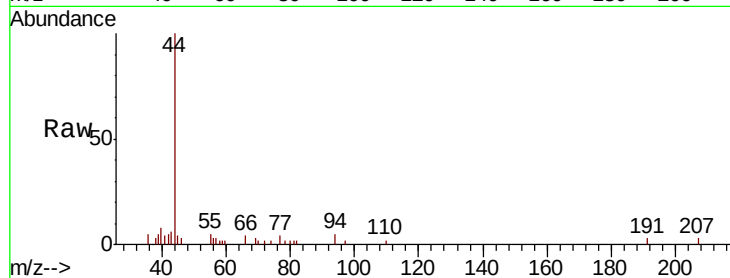
VF0214SBL01

Tgt Ion: 59 Resp: 490

Ion Ratio Lower Upper

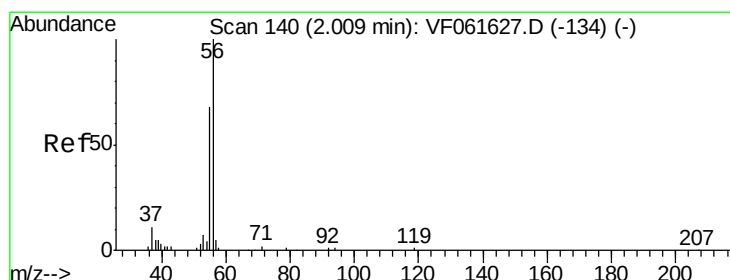
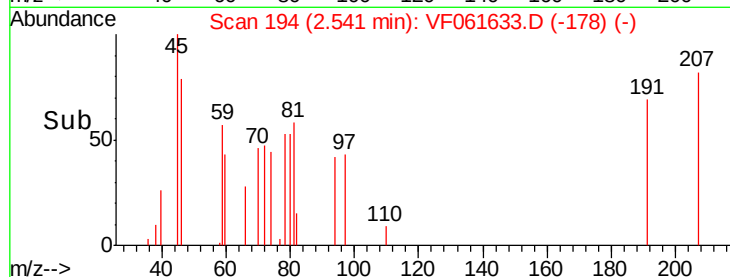
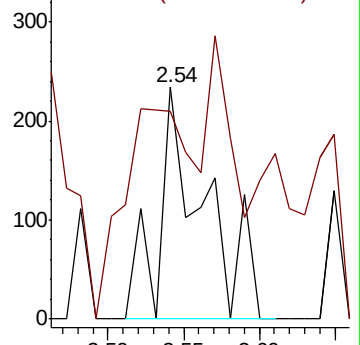
59 100

57 89.7 12.5 18.7#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0



#13

Acrolein

Concen: 3.587 ug/l

RT: 2.01 min Scan# 140

Delta R.T. 0.00 min

Lab File: VF061633.D

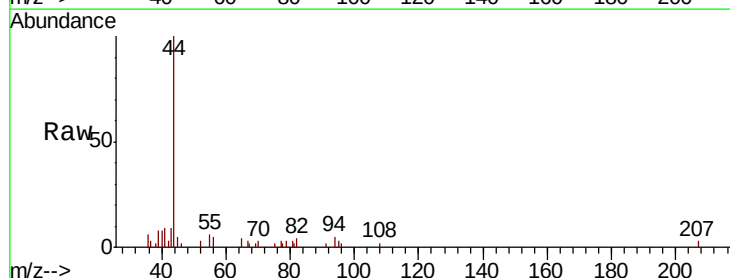
Acq: 14 Feb 2019 11:35

Tgt Ion: 56 Resp: 624

Ion Ratio Lower Upper

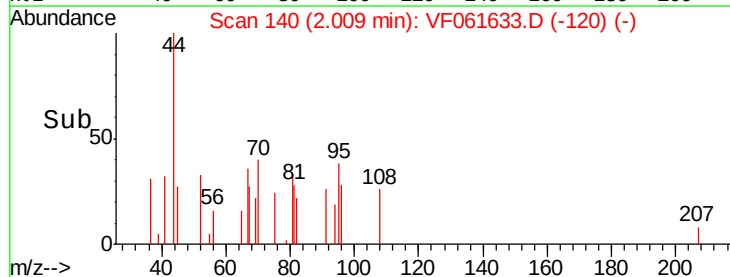
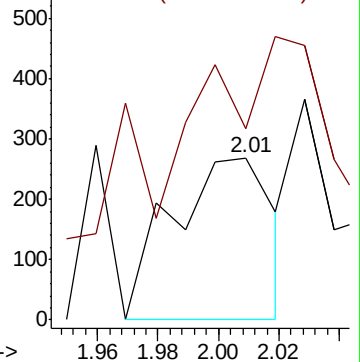
56 100

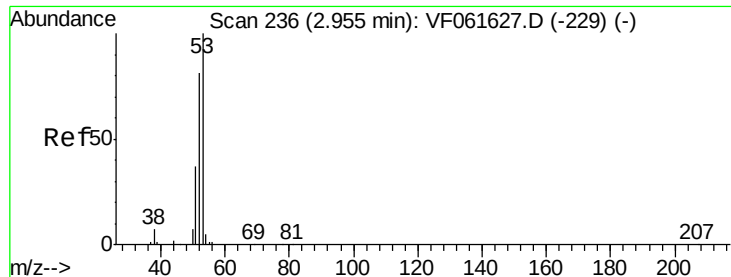
55 117.5 55.0 82.6#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0





#15

Acrylonitrile

Concen: 3.948 ug/l

RT: 2.94 min Scan# 234

Delta R.T. -0.02 min

Lab File: VF061633.D

Acq: 14 Feb 2019 11:35

Instrument :

MSVOA_F

ClientSampleId :

VF0214SBL01

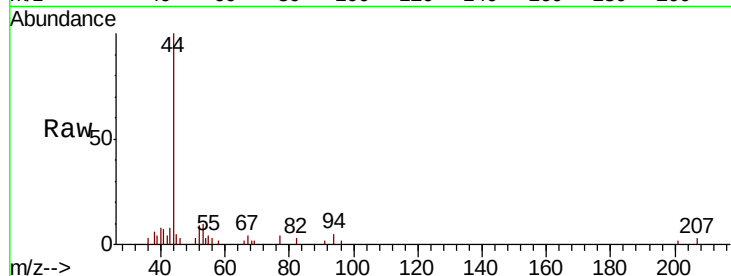
Tgt Ion: 53 Resp: 1938

Ion Ratio Lower Upper

53 100

52 92.5 64.6 97.0

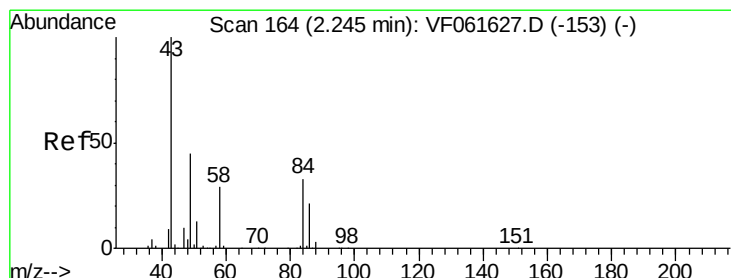
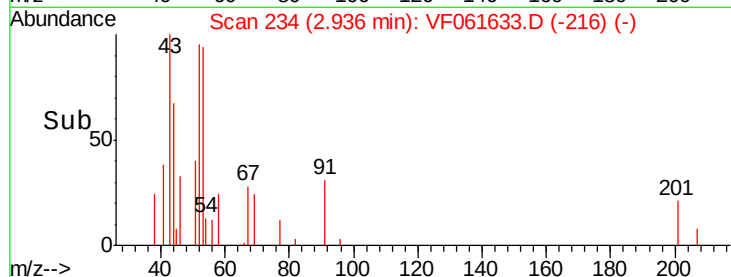
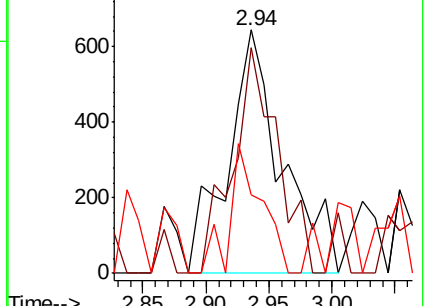
51 32.1 29.8 44.8



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: 6.208 ug/l

RT: 2.24 min Scan# 163

Delta R.T. -0.01 min

Lab File: VF061633.D

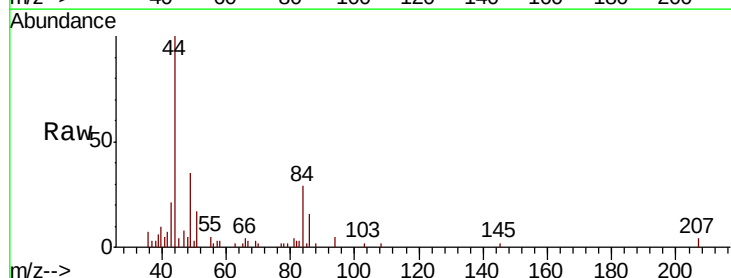
Acq: 14 Feb 2019 11:35

Tgt Ion: 43 Resp: 3185

Ion Ratio Lower Upper

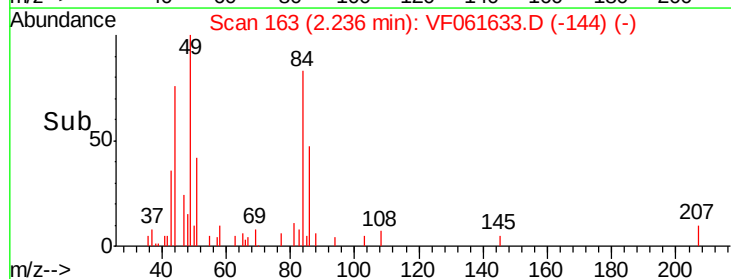
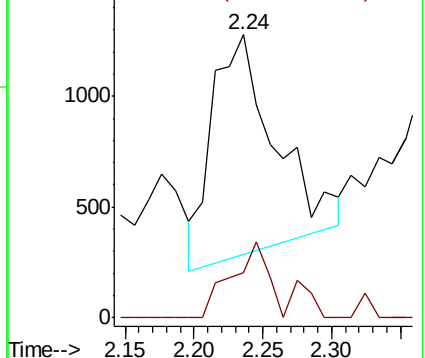
43 100

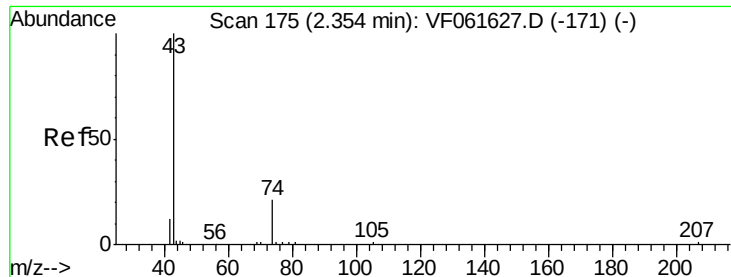
58 16.0 22.9 34.3#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

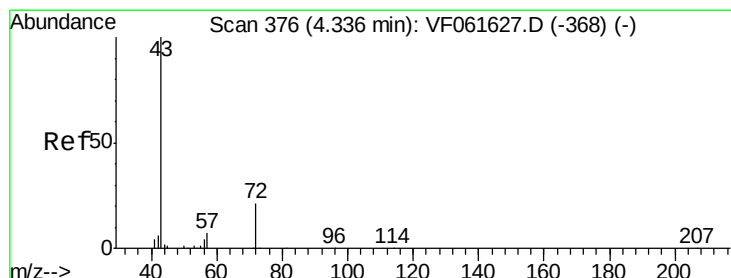
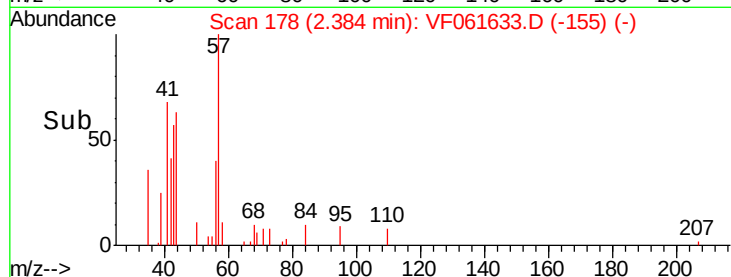
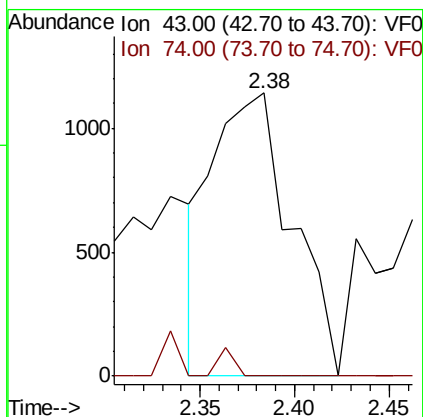
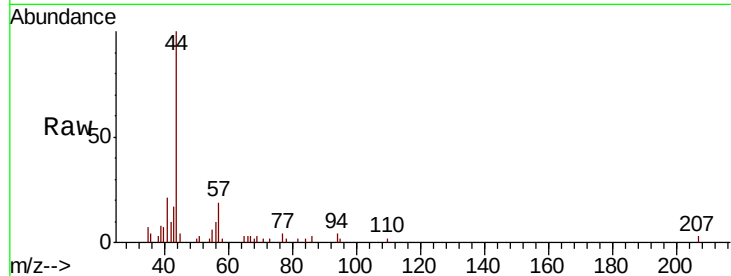




#18
Methyl Acetate
Concen: 2.898 ug/l
RT: 2.38 min Scan# 178
Delta R.T. 0.03 min
Lab File: VF061633.D
Acq: 14 Feb 2019 11:35

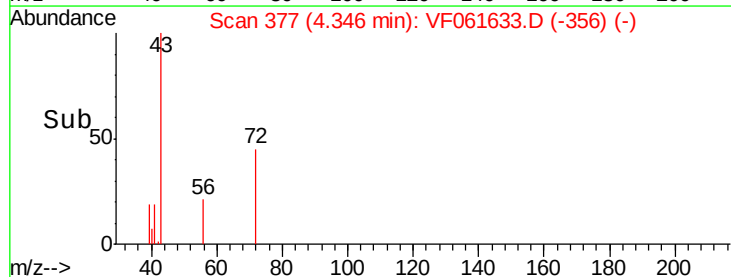
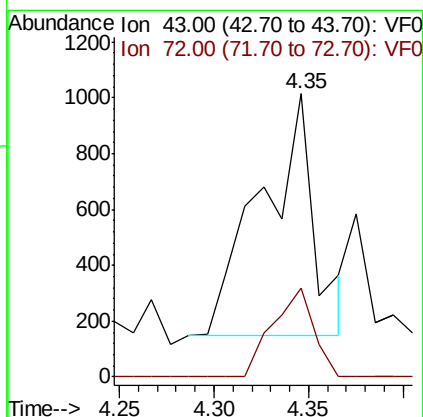
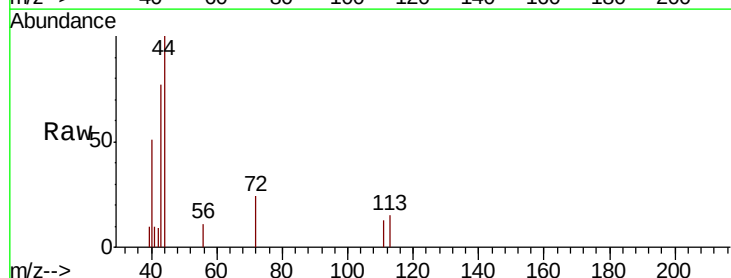
Instrument :
MSVOA_F
ClientSampleId :
VF0214SBL01

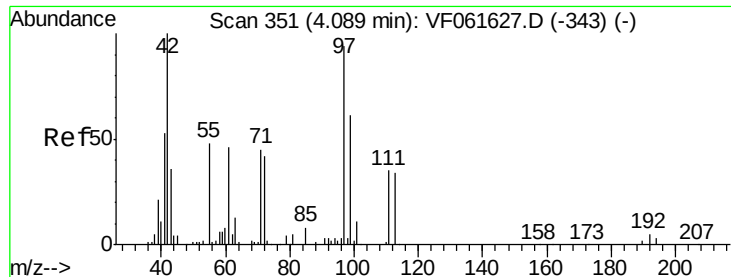
Tgt Ion: 43 Resp: 3350
Ion Ratio Lower Upper
43 100
74 0.0 14.6 21.8#



#25
2-Butanone
Concen: 1.513 ug/l
RT: 4.35 min Scan# 377
Delta R.T. 0.01 min
Lab File: VF061633.D
Acq: 14 Feb 2019 11:35

Tgt Ion: 43 Resp: 1696
Ion Ratio Lower Upper
43 100
72 31.4 17.1 25.7#





#29

Tetrahydrofuran

Concen: 3.824 ug/l

RT: 4.07 min Scan# 349

Delta R.T. -0.02 min

Lab File: VF061633.D

Acq: 14 Feb 2019 11:35

Instrument :

MSVOA_F

ClientSampleId :

VF0214SBL01

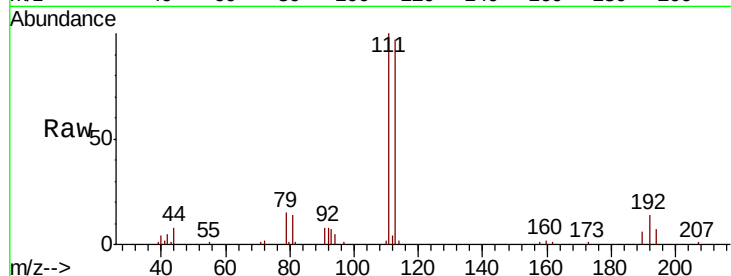
Tgt Ion: 42 Resp: 1948

Ion Ratio Lower Upper

42 100

72 31.7 35.2 52.8#

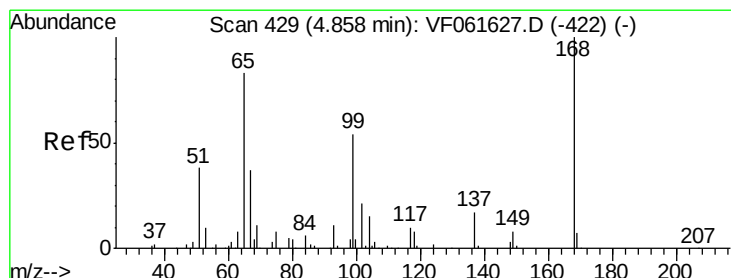
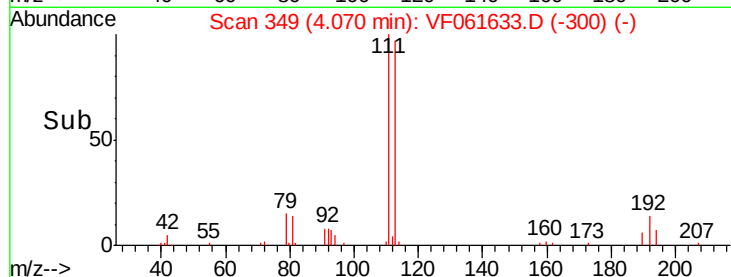
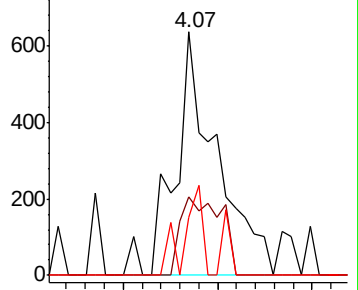
71 16.0 32.9 49.3#



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: 56.210 ug/l

RT: 4.84 min Scan# 427

Delta R.T. -0.02 min

Lab File: VF061633.D

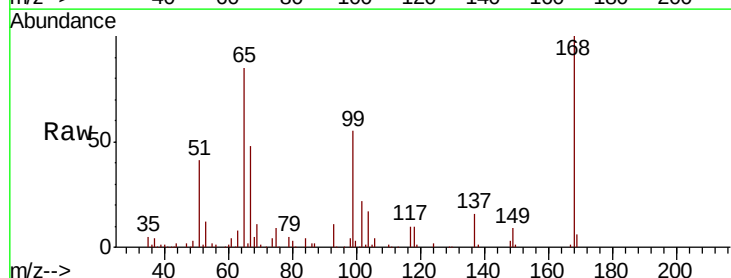
Acq: 14 Feb 2019 11:35

Tgt Ion: 65 Resp: 134420

Ion Ratio Lower Upper

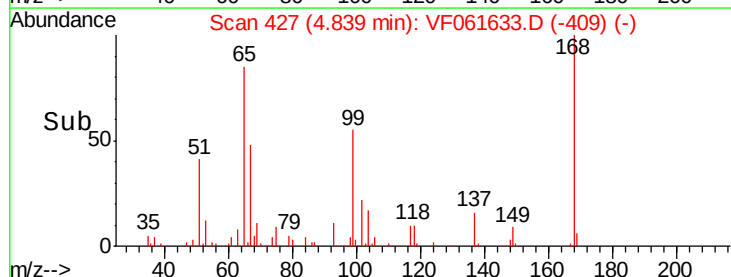
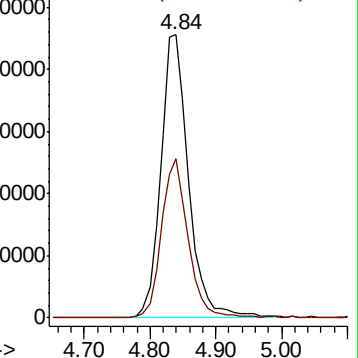
65 100

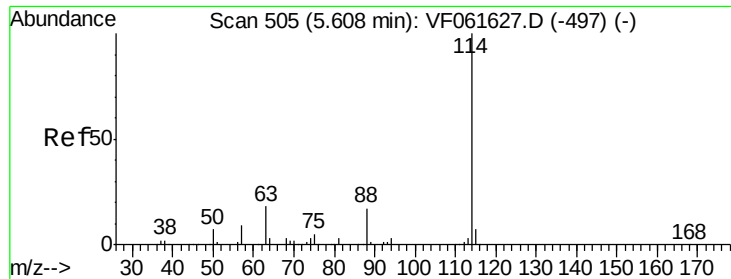
67 56.1 0.0 104.0



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.02 min

Lab File: VF061633.D

Acq: 14 Feb 2019 11:35

Instrument :

MSVOA_F

ClientSampleId :

VF0214SBL01

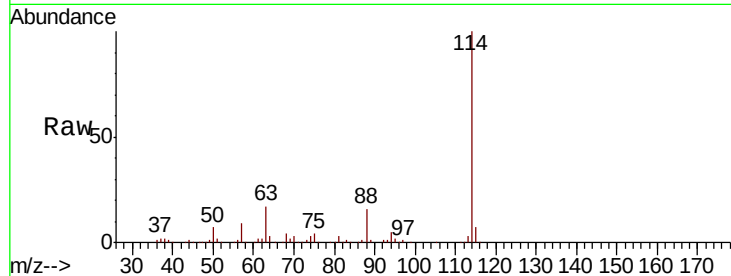
Tgt Ion:114 Resp: 510751

Ion Ratio Lower Upper

114 100

63 17.4 0.0 36.6

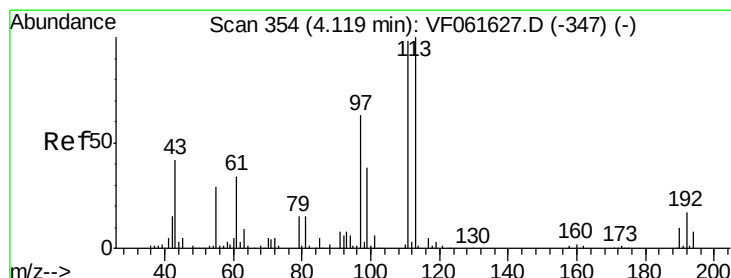
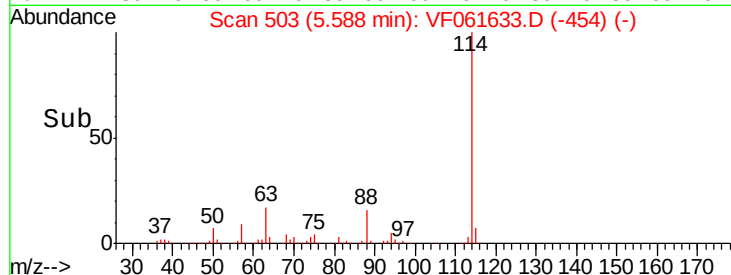
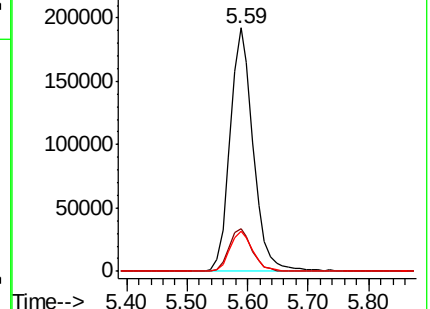
88 16.5 0.0 34.4



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: 52.269 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.02 min

Lab File: VF061633.D

Acq: 14 Feb 2019 11:35

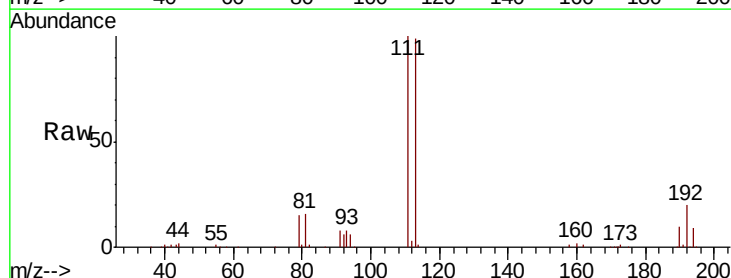
Tgt Ion:113 Resp: 198250

Ion Ratio Lower Upper

113 100

111 101.1 78.8 118.2

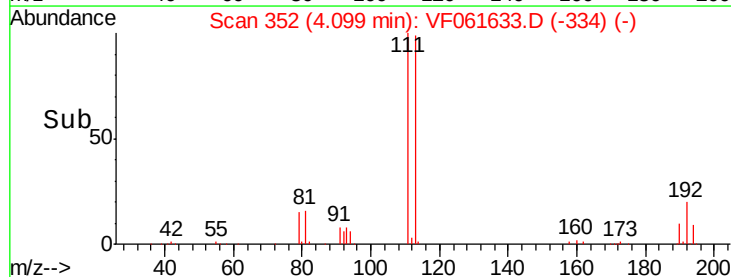
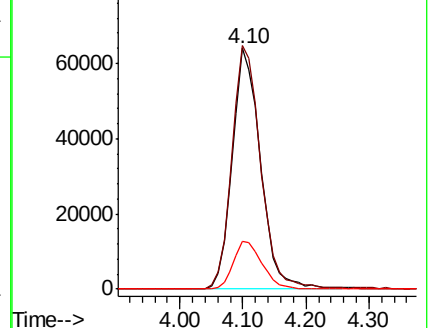
192 19.7 13.4 20.0

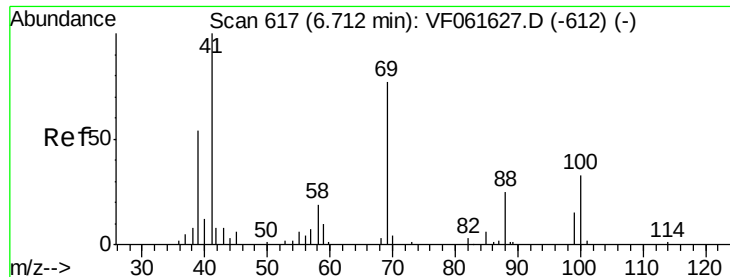


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#49

1,4-Dioxane

Concen: 12.391 ug/l

RT: 6.70 min Scan# 616

Delta R.T. -0.01 min

Lab File: VF061633.D

Acq: 14 Feb 2019 11:35

Instrument :
MSVOA_F
ClientSampleId :
VF0214SBL01

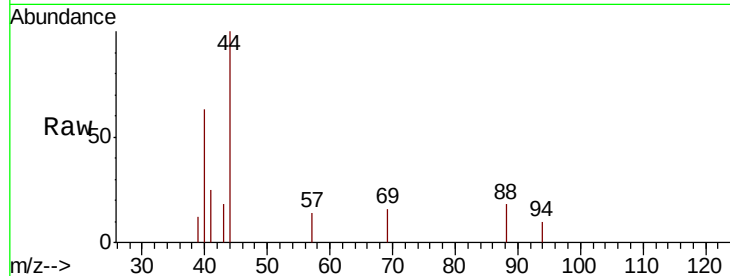
Tgt Ion: 88 Resp: 195

Ion Ratio Lower Upper

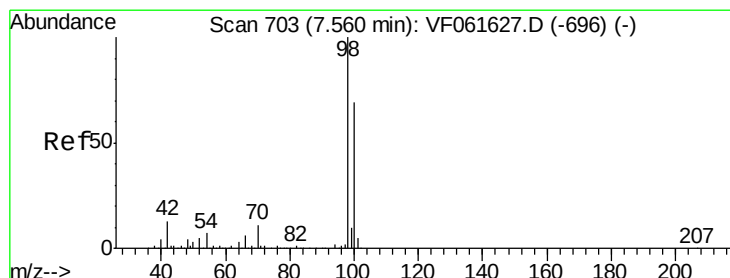
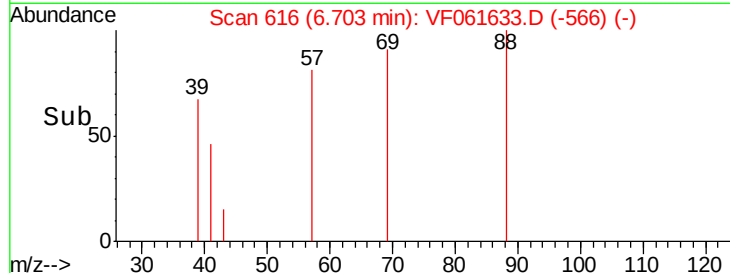
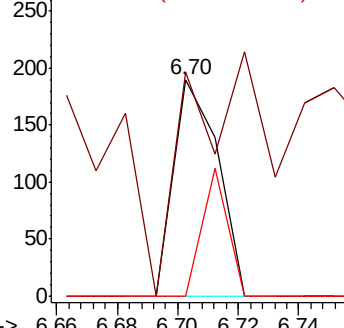
88 100

43 103.7 32.3 48.5#

58 0.0 59.4 89.2#



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: 52.020 ug/l

RT: 7.55 min Scan# 702

Delta R.T. -0.01 min

Lab File: VF061633.D

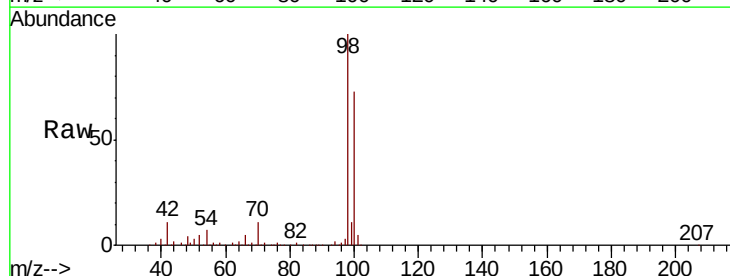
Acq: 14 Feb 2019 11:35

Tgt Ion: 98 Resp: 567201

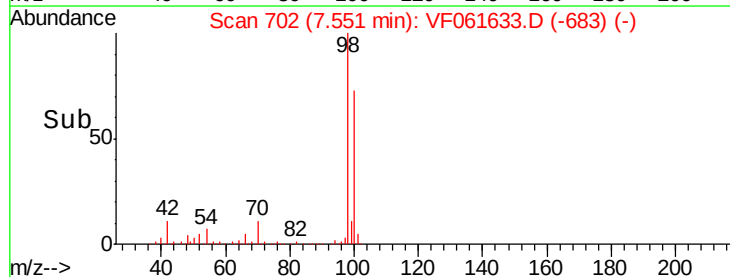
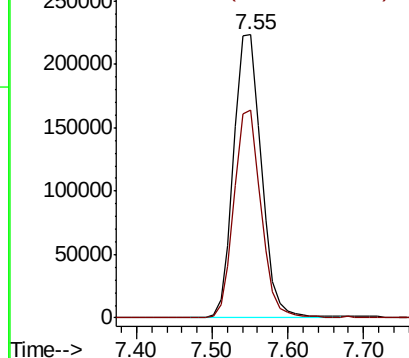
Ion Ratio Lower Upper

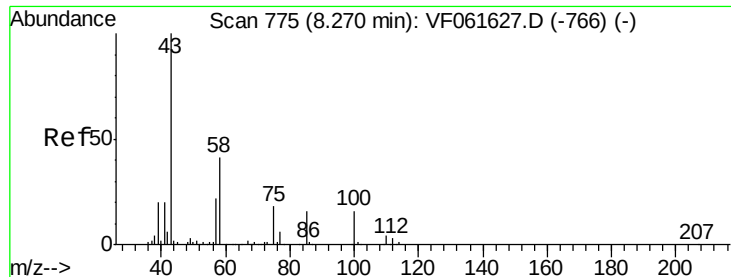
98 100

100 73.3 55.4 83.2



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: 2.837 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.01 min

Lab File: VF061633.D

Acq: 14 Feb 2019 11:35

Instrument :

MSVOA_F

ClientSampleId :

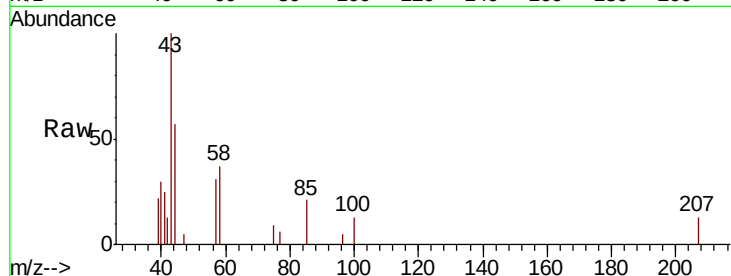
VF0214SBL01

Tgt Ion: 43 Resp: 5638

Ion Ratio Lower Upper

43 100

58 37.4 33.1 49.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

2500

2000

1500

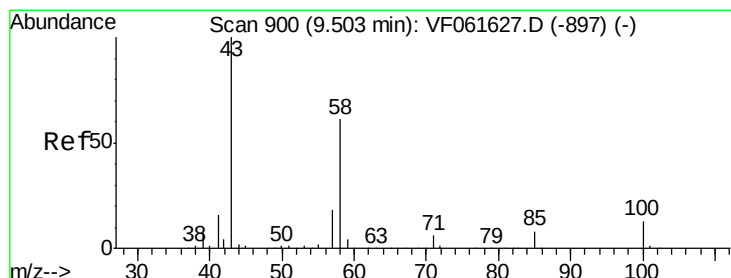
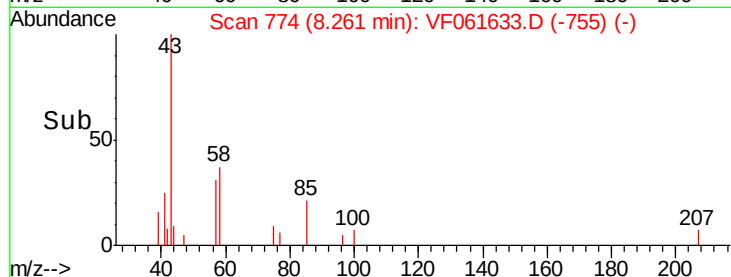
1000

500

0

8.15 8.20 8.25 8.30 8.35

Time-->



#59

2-Hexanone

Concen: 5.224 ug/l

RT: 9.49 min Scan# 899

Delta R.T. -0.01 min

Lab File: VF061633.D

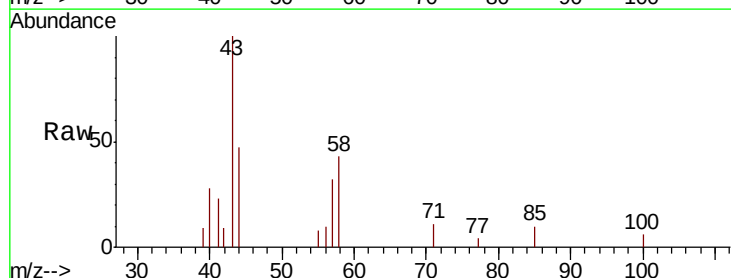
Acq: 14 Feb 2019 11:35

Tgt Ion: 43 Resp: 7279

Ion Ratio Lower Upper

43 100

58 42.6 28.5 85.5



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

3000

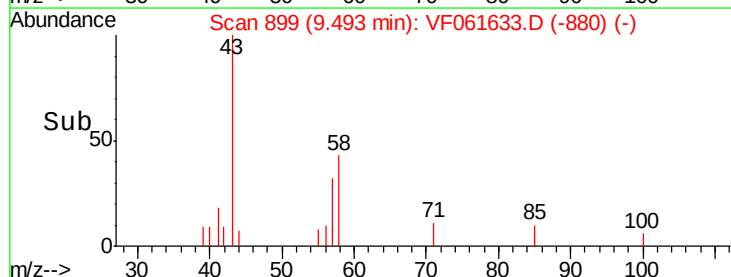
2000

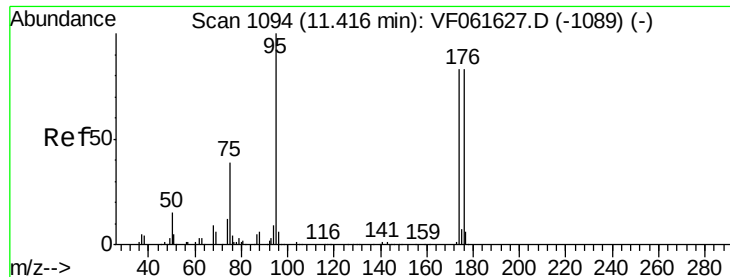
1000

0

9.40 9.45 9.50 9.55 9.60

Time-->

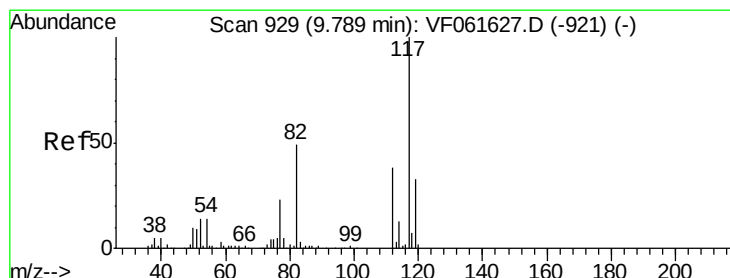
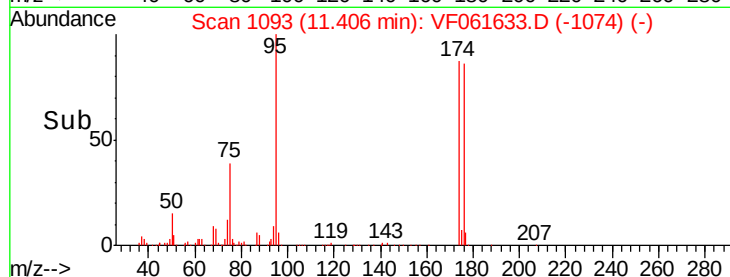
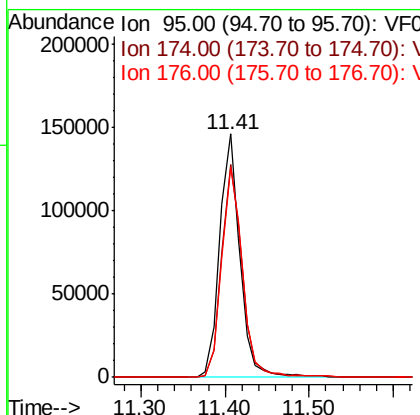
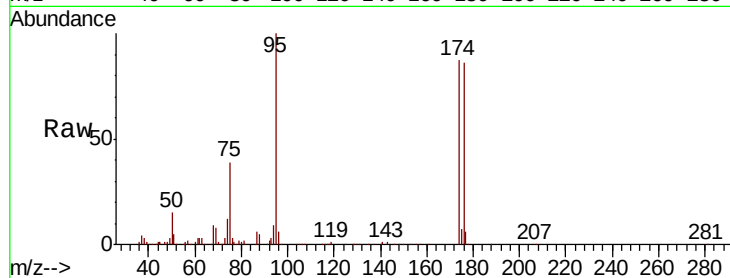




#62
4-Bromofluorobenzene
Concen: 55.597 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. -0.01 min
Lab File: VF061633.D
Acq: 14 Feb 2019 11:35

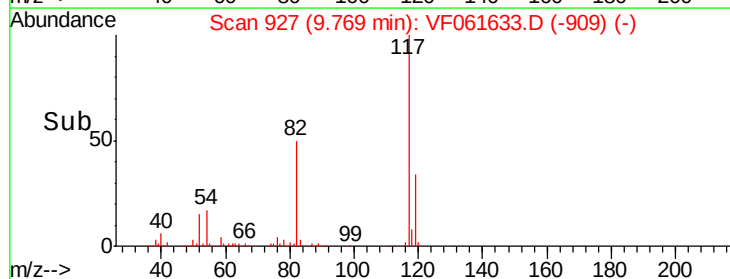
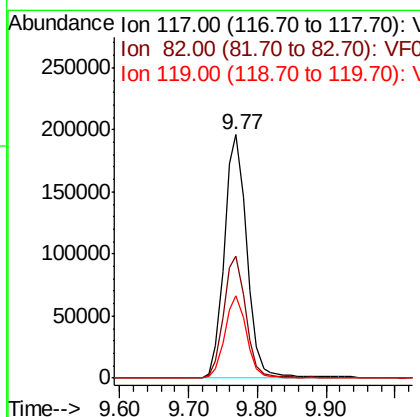
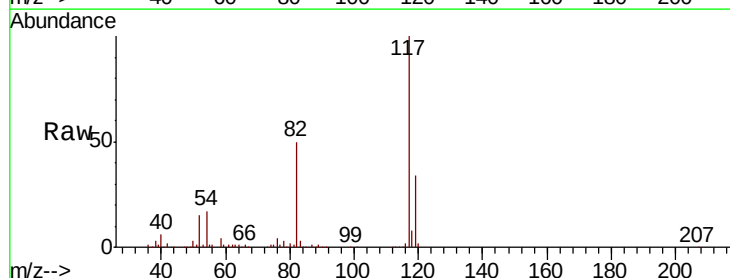
Instrument :
MSVOA_F
ClientSampleId :
VF0214SBL01

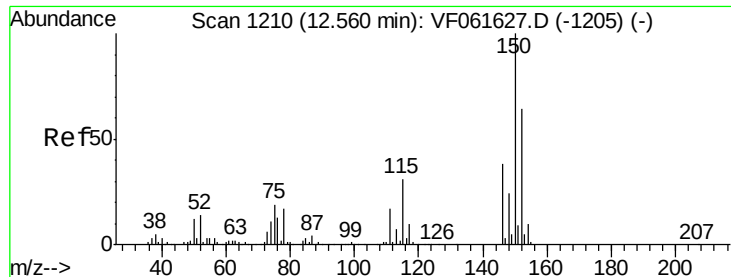
Tgt Ion	Ratio	Lower	Upper
95	100		
174	87.3	0.0	165.8
176	86.4	0.0	167.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.02 min
Lab File: VF061633.D
Acq: 14 Feb 2019 11:35

Tgt Ion	Ratio	Lower	Upper
117	100		
82	50.0	39.3	58.9
119	33.9	26.6	40.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1209

Delta R.T. -0.01 min

Lab File: VF061633.D

Acq: 14 Feb 2019 11:35

Instrument :

MSVOA_F

ClientSampleId :

VF0214SBL01

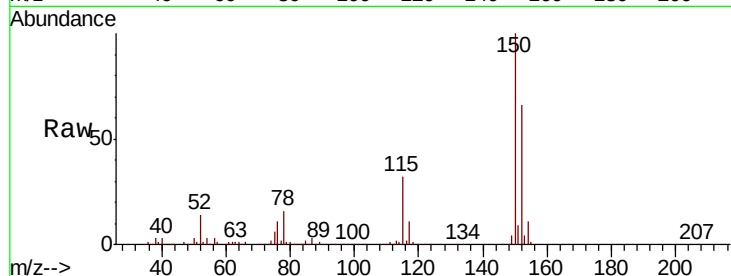
Tgt Ion:152 Resp: 264723

Ion Ratio Lower Upper

152 100

115 49.4 24.3 72.8

150 152.2 0.0 312.0

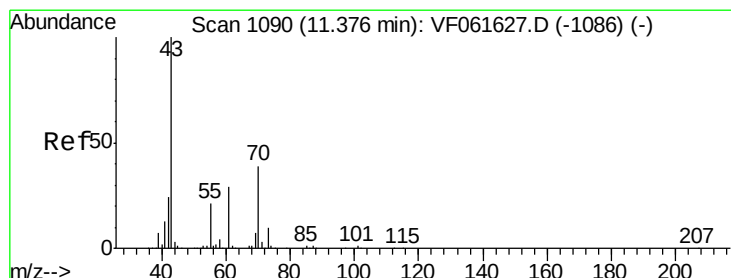
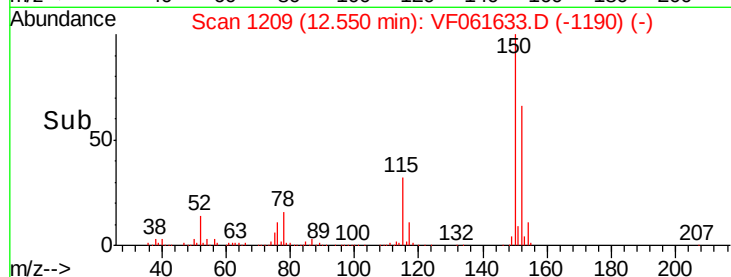
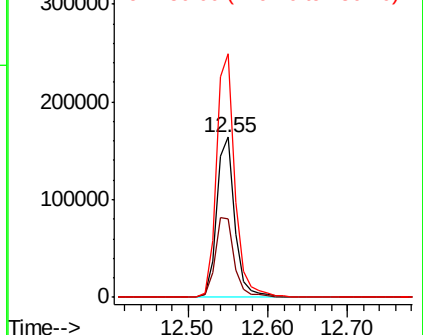


Abundance

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-ethyl acetate

Concen: 1.236 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. -0.01 min

Lab File: VF061633.D

Acq: 14 Feb 2019 11:35

Tgt Ion: 43 Resp: 5591

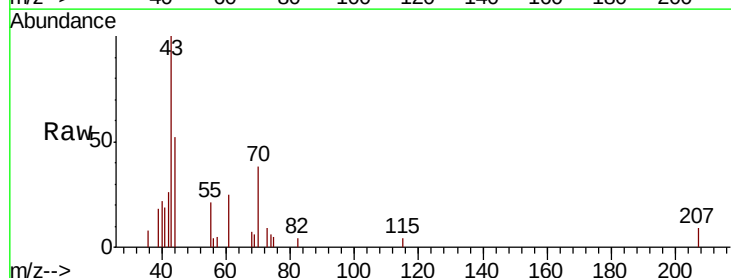
Ion Ratio Lower Upper

43 100

70 38.5 31.5 47.3

55 20.8 16.7 25.1

61 25.1 23.0 34.6



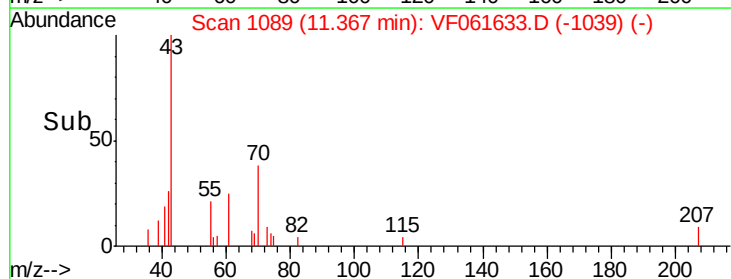
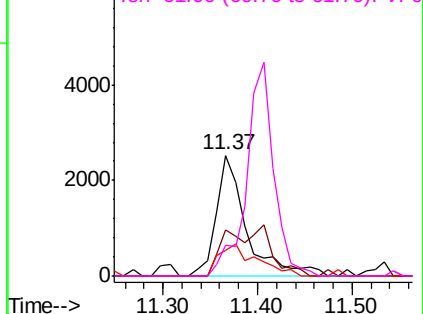
Abundance

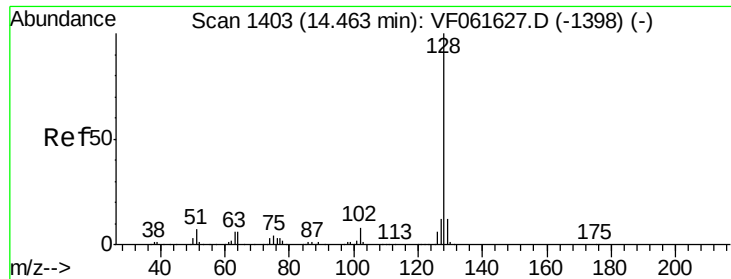
Ion 43.00 (42.70 to 43.70): VF0

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

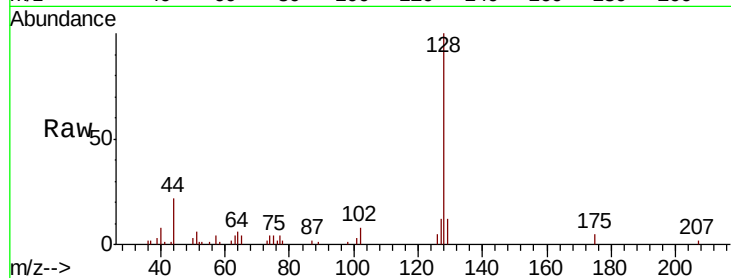




#95
 Naphthalene
 Concen: 1.335 ug/l
 RT: 14.45 min Scan# 1402
 Delta R.T. -0.01 min
 Lab File: VF061633.D
 Acq: 14 Feb 2019 11:35

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0214SBL01

Tgt Ion:	128	Resp:	14453
Ion	Ratio	Lower	Upper
128	100		
127	12.3	9.8	14.6
129	12.2	9.4	14.2



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

