

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF032319\
 Data File : VF062120.D
 Acq On : 23 Mar 2019 16:36
 Operator : VA/AP
 Sample : K2045-06
 Misc : 6.05µ/5mL/MSVOA-F/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 WP022SB439-190318-(25-27)

Quant Time: Mar 25 01:29:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F032219S.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 23 01:16:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	228626	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.60	114	374024	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.78	117	277403	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.55	152	119999	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	82837	48.71	ug/l	-0.04
Spiked Amount			Recovery	=	97.42%	
35) Dibromofluoromethane	4.11	113	115907	45.81	ug/l	-0.04
Spiked Amount			Recovery	=	91.62%	
50) Toluene-d8	7.55	98	283588	37.55	ug/l	-0.04
Spiked Amount			Recovery	=	75.10%	
62) 4-Bromofluorobenzene	11.41	95	105047	36.03	ug/l	-0.03
Spiked Amount			Recovery	=	72.06%	

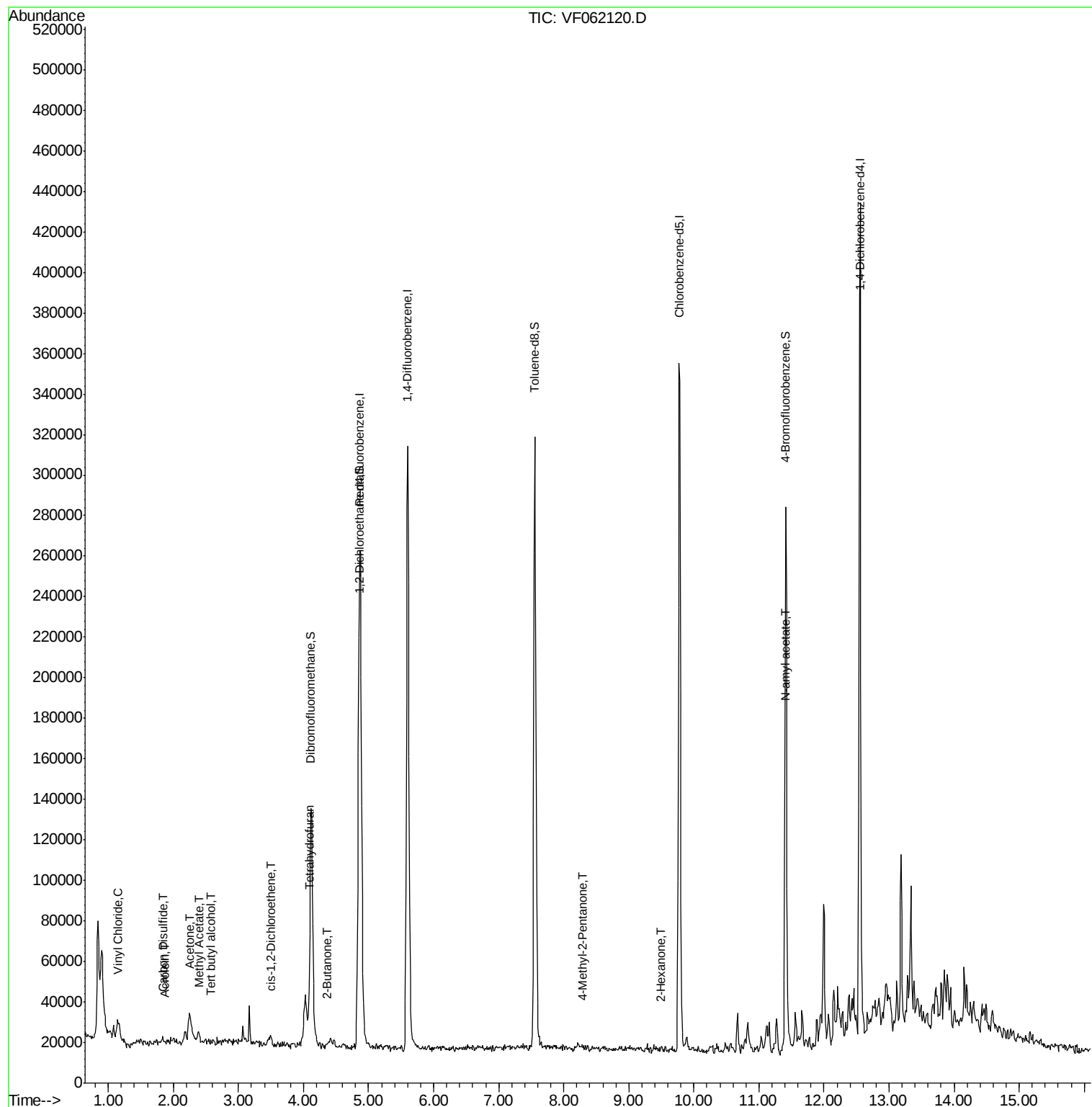
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.15	62	22405	7.904	ug/l	100
11) Tert butyl alcohol	2.59	59	304	3.249	ug/l #	1
13) Acrolein	1.87	56	123	1.093	ug/l	96
16) Acetone	2.24	43	18669	52.162	ug/l	92
17) Carbon Disulfide	1.84	76	7016	1.044	ug/l	95
18) Methyl Acetate	2.39	43	4012	4.699	ug/l #	56
20) Methylene Chloride	2.26	84	5180	Below Cal		96
25) 2-Butanone	4.35	43	3325	4.450	ug/l #	55
27) cis-1,2-Dichloroethene	3.48	96	2951	1.050	ug/l	91
29) Tetrahydrofuran	4.08	42	913	2.810	ug/l #	70
51) 4-Methyl-2-Pentanone	8.27	43	1963	1.555	ug/l	90
59) 2-Hexanone	9.51	43	1061	1.147	ug/l	73
74) N-amyl acetate	11.39	43	2209	1.098	ug/l #	71

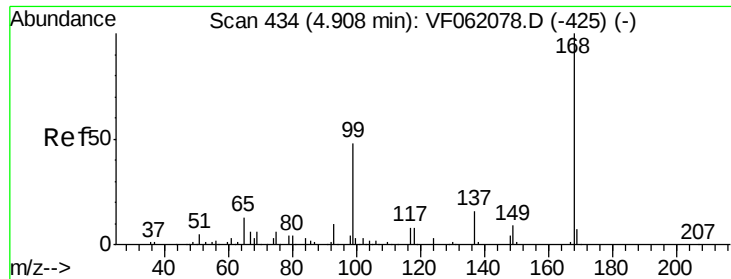
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.04 min

Lab File: VF062120.D

Acq: 23 Mar 2019 16:36

Instrument :

MSVOA_F

ClientSampleId :

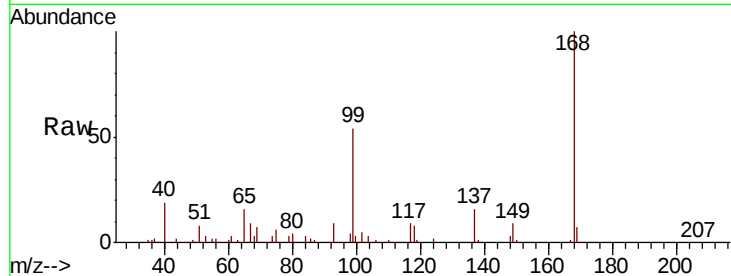
WP022SB439-190318-(25-27)

Tot Ion:168 Resp: 228626

Ion Ratio Lower Upper

168 100

99 53.6 38.2 57.4



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

80000

60000

40000

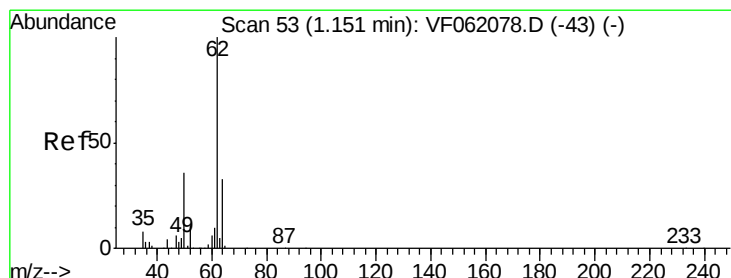
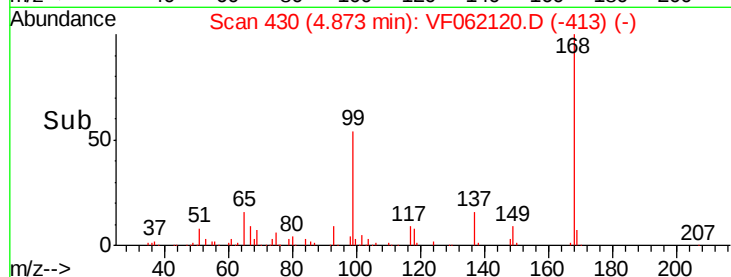
20000

0

Time-->

4.80

5.00



#4

Vinyl Chloride

Concen: 7.904 ug/l

RT: 1.15 min Scan# 52

Delta R.T. -0.01 min

Lab File: VF062120.D

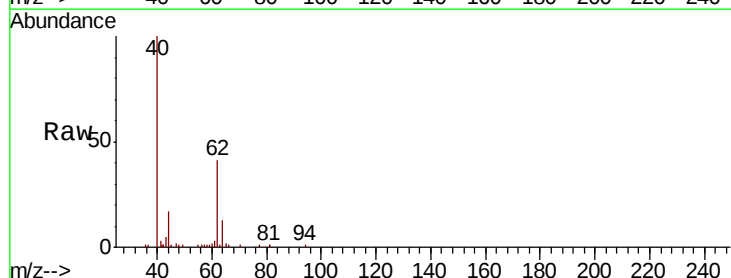
Acq: 23 Mar 2019 16:36

Tgt Ion: 62 Resp: 22405

Ion Ratio Lower Upper

62 100

64 32.6 26.2 39.2



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0

1.15

6000

4000

2000

0

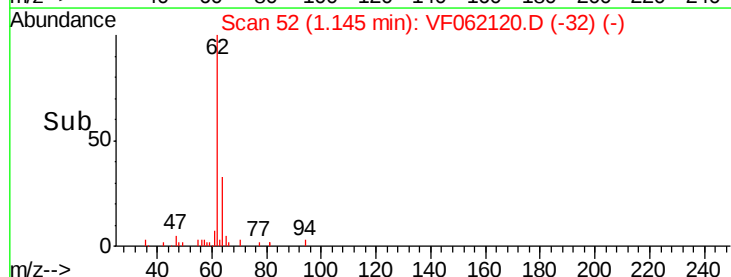
Time-->

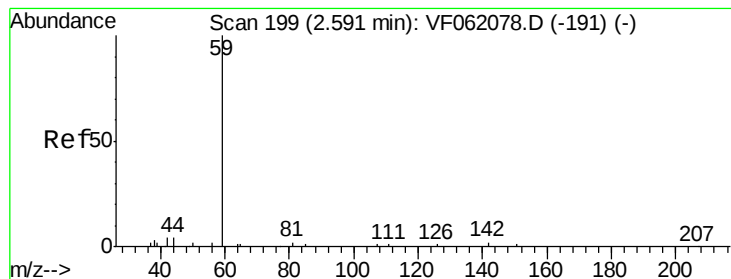
1.00

1.10

1.20

1.30



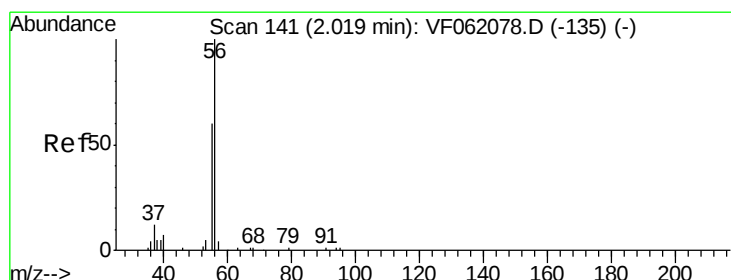
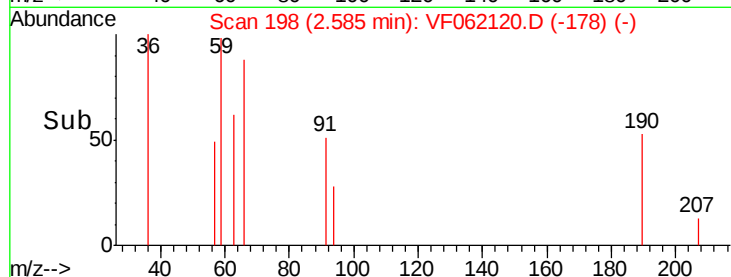
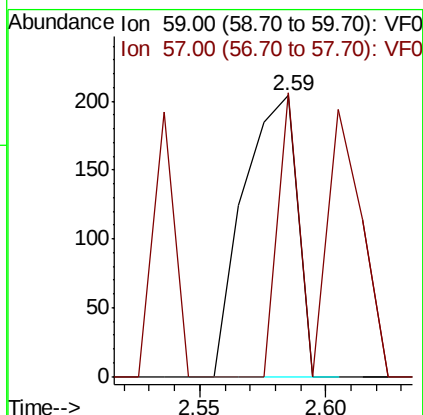
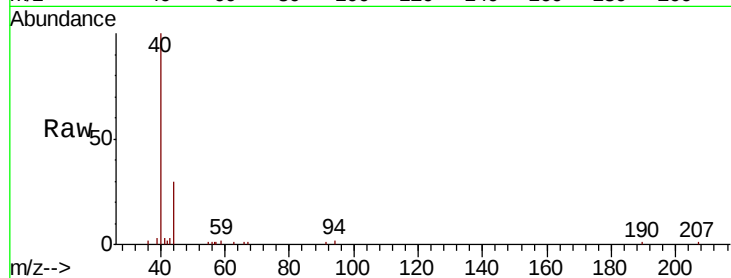


#11

Tert butyl alcohol
 Concen: 3.249 ug/l
 RT: 2.59 min Scan# 198
 Delta R.T. -0.01 min
 Lab File: VF062120.D
 Acq: 23 Mar 2019 16:36

Instrument :
 MSVOA_F
 ClientSampleId :
 WP022SB439-190318-(25-27)

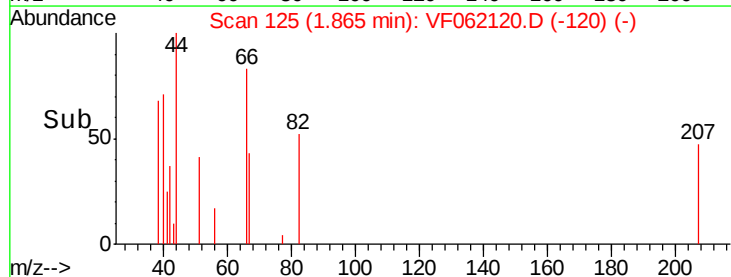
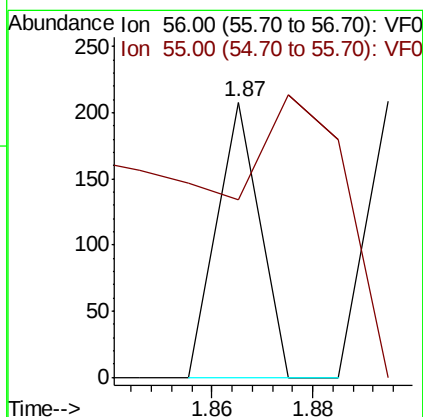
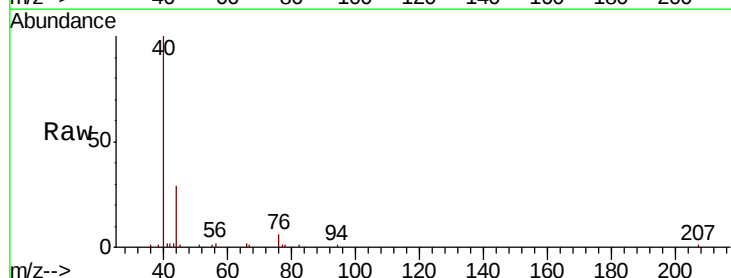
Tot Ion: 59 Resp: 304
 Ion Ratio Lower Upper
 59 100
 57 101.0 11.0 16.4#

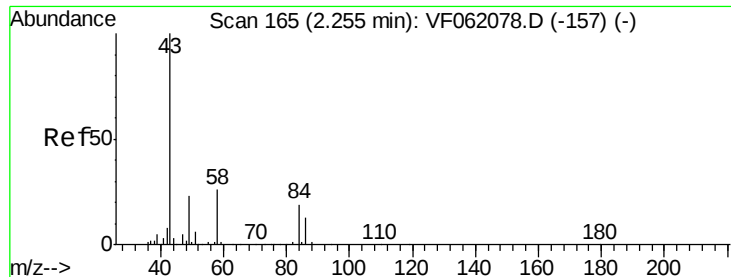


#13

Acrolein
 Concen: 1.093 ug/l
 RT: 1.87 min Scan# 125
 Delta R.T. -0.15 min
 Lab File: VF062120.D
 Acq: 23 Mar 2019 16:36

Tgt Ion: 56 Resp: 123
 Ion Ratio Lower Upper
 56 100
 55 64.4 49.0 73.4





#16

Acetone

Concen: 52.162 ug/l

RT: 2.24 min Scan# 163

Delta R.T. -0.02 min

Lab File: VF062120.D

Acq: 23 Mar 2019 16:36

Instrument :

MSVOA_F

ClientSampleId :

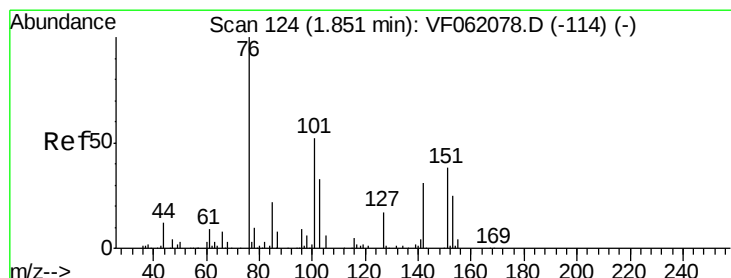
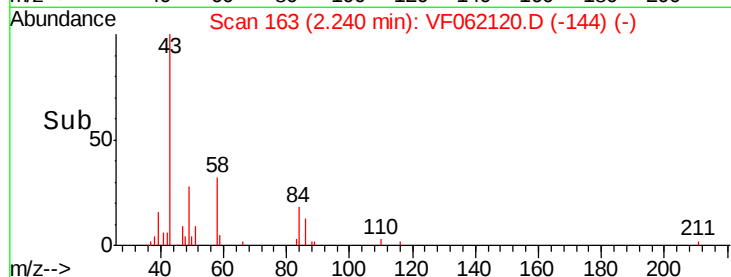
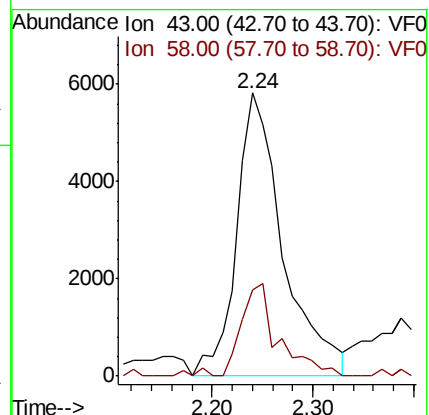
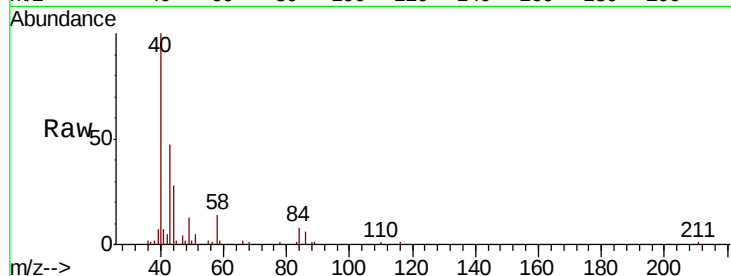
WP022SB439-190318-(25-27)

Tot Ion: 43 Resp: 18669

Ion Ratio Lower Upper

43 100

58 30.3 20.8 31.2



#17

Carbon Disulfide

Concen: 1.044 ug/l

RT: 1.84 min Scan# 122

Delta R.T. -0.02 min

Lab File: VF062120.D

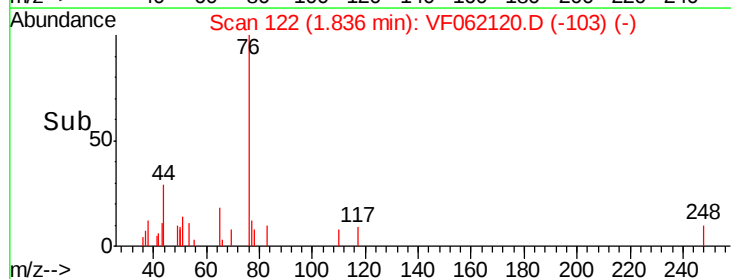
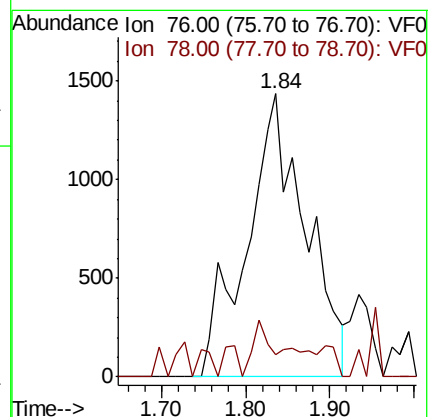
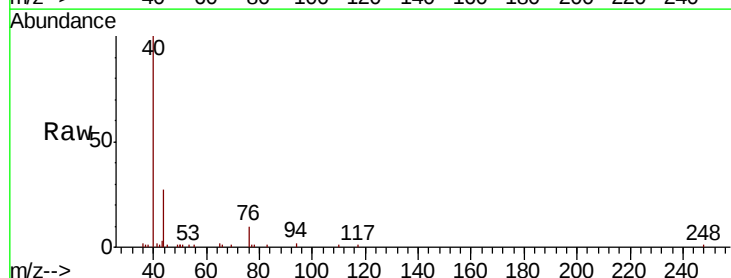
Acq: 23 Mar 2019 16:36

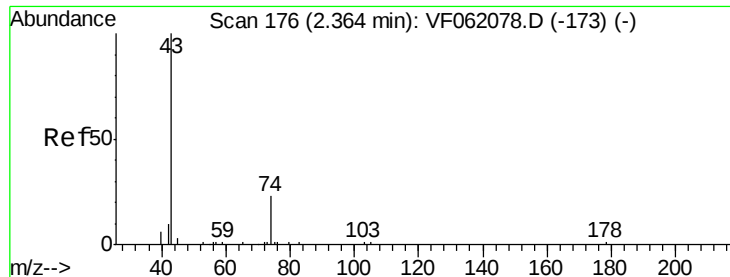
Tgt Ion: 76 Resp: 7016

Ion Ratio Lower Upper

76 100

78 7.9 7.9 11.9

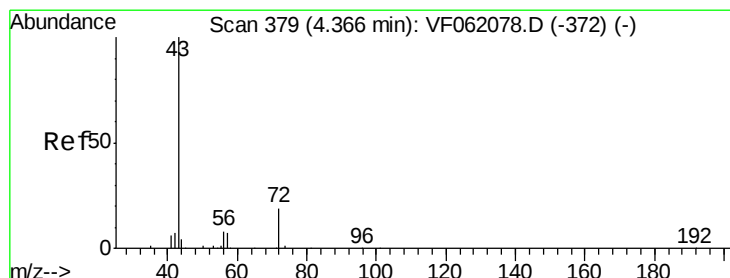
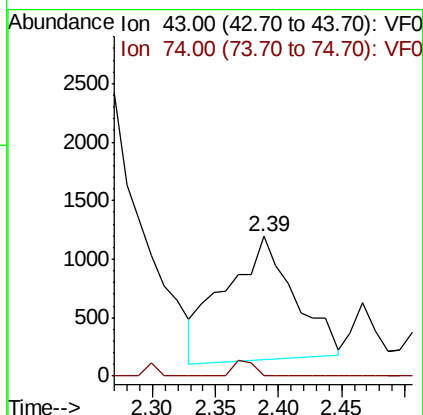
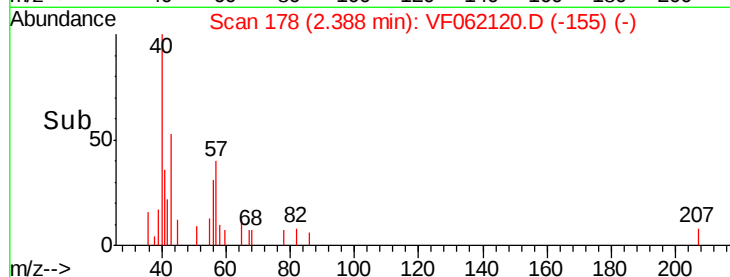
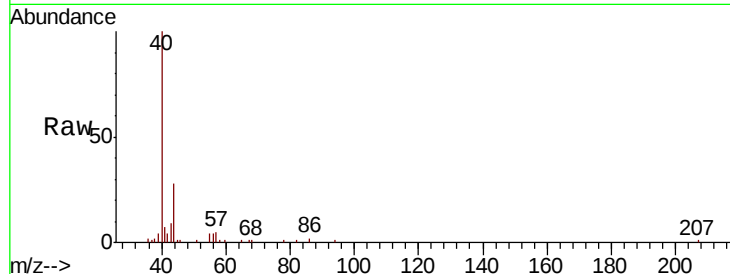




#18
Methyl Acetate
Concen: 4.699 ug/l
RT: 2.39 min Scan# 178
Delta R.T. 0.02 min
Lab File: VF062120.D
Acq: 23 Mar 2019 16:36

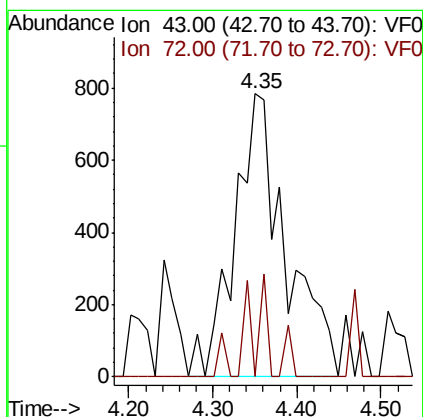
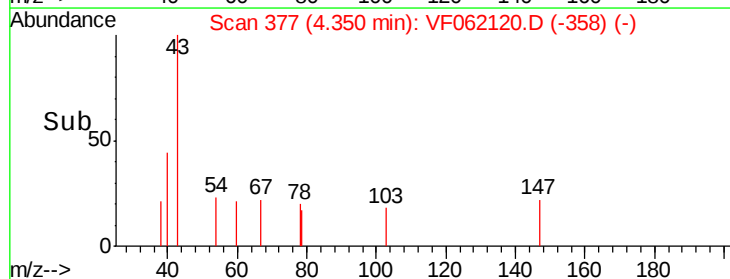
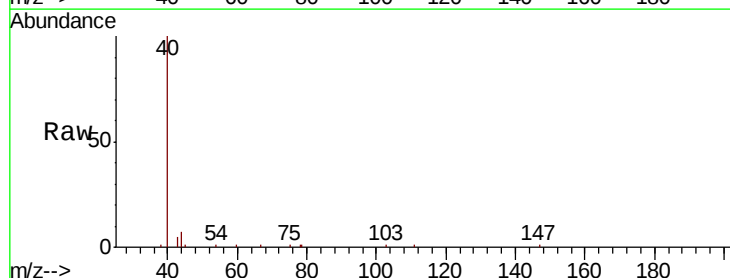
Instrument :
MSVOA_F
ClientSampleId :
WP022SB439-190318-(25-27)

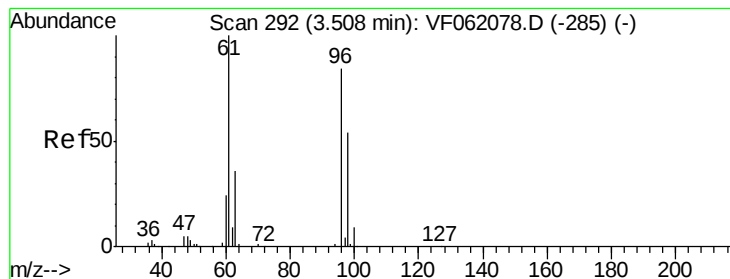
Tot Ion: 43 Resp: 4012
Ion Ratio Lower Upper
43 100
74 0.0 16.3 24.5#



#25
2-Butanone
Concen: 4.450 ug/l
RT: 4.35 min Scan# 377
Delta R.T. -0.02 min
Lab File: VF062120.D
Acq: 23 Mar 2019 16:36

Tgt Ion: 43 Resp: 3325
Ion Ratio Lower Upper
43 100
72 0.0 16.7 25.1#



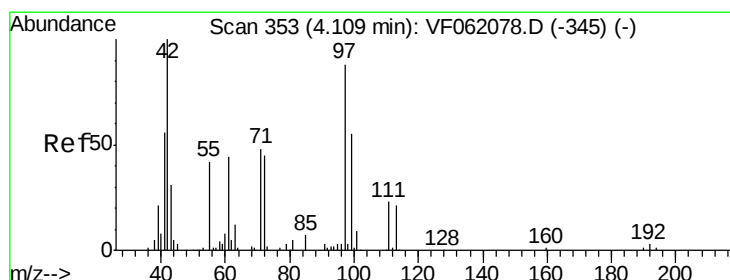
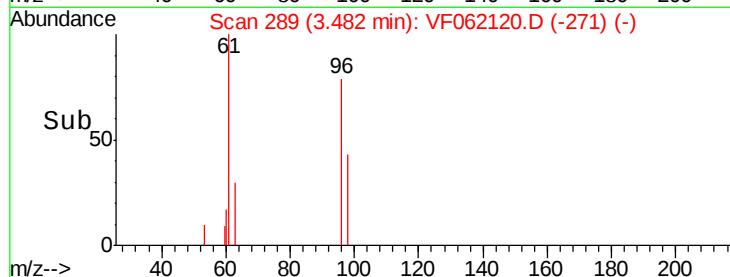
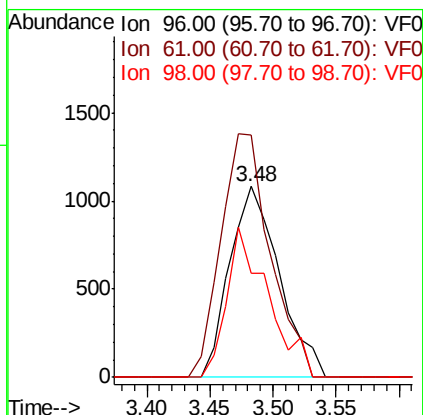
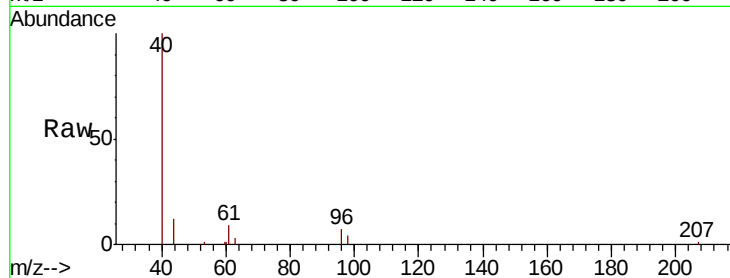


#27

cis-1,2-Dichloroethene
 Concen: 1.050 ug/l
 RT: 3.48 min Scan# 289
 Delta R.T. -0.03 min
 Lab File: VF062120.D
 Acq: 23 Mar 2019 16:36

Instrument :
 MSVOA_F
 ClientSampleId :
 WP022SB439-190318-(25-27)

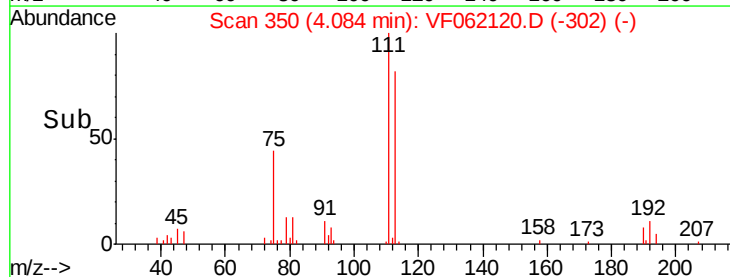
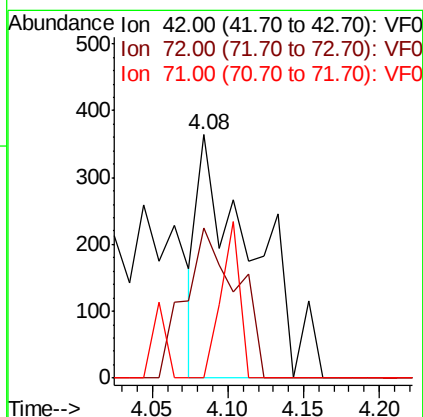
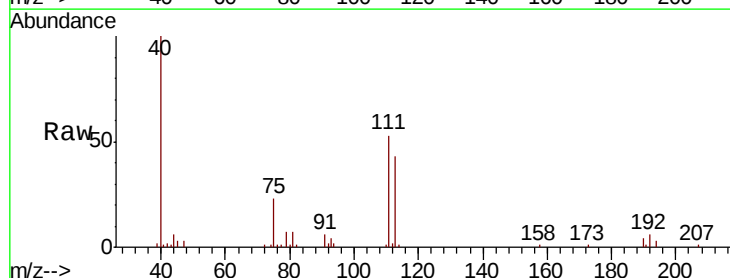
Tot Ion: 96 Resp: 2951
 Ion Ratio Lower Upper
 96 100
 61 127.2 0.0 239.0
 98 54.6 0.0 128.2

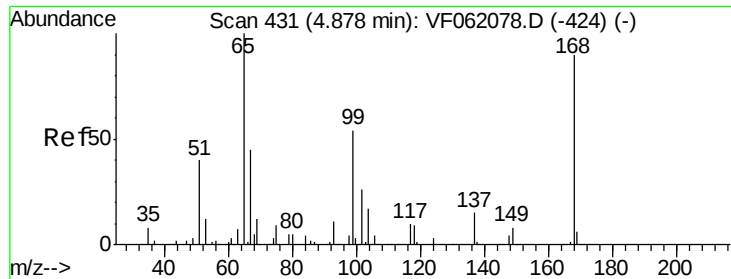


#29

Tetrahydrofuran
 Concen: 2.810 ug/l
 RT: 4.08 min Scan# 350
 Delta R.T. -0.03 min
 Lab File: VF062120.D
 Acq: 23 Mar 2019 16:36

Tgt Ion: 42 Resp: 913
 Ion Ratio Lower Upper
 42 100
 72 58.8 33.3 49.9#
 71 22.3 35.0 52.4#





#33

1,2-Dichloroethane-d4

Concen: 48.712 ug/l

RT: 4.84 min Scan# 427

Delta R.T. -0.04 min

Lab File: VF062120.D

Acq: 23 Mar 2019 16:36

Instrument :

MSVOA_F

ClientSampleId :

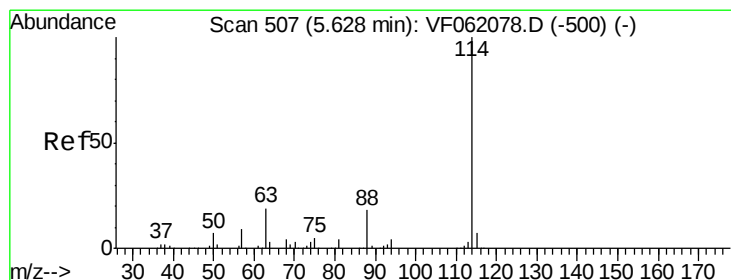
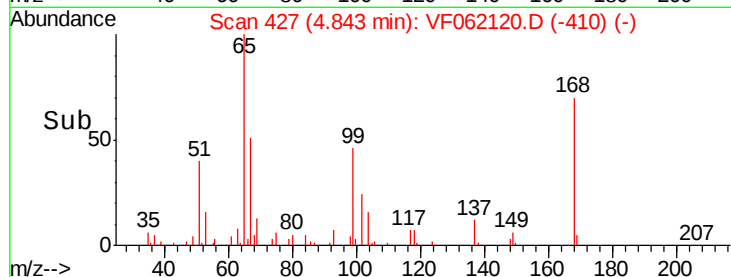
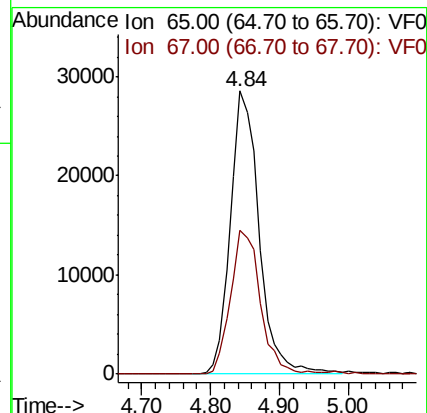
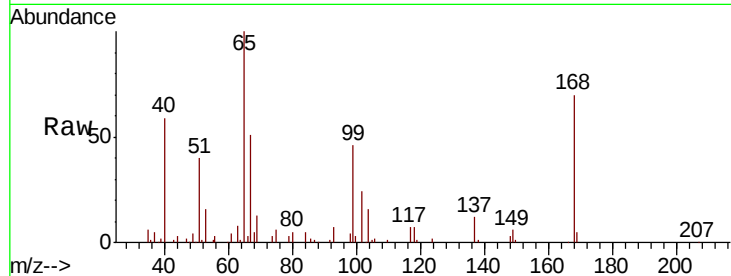
WP022SB439-190318-(25-27)

Tot Ion: 65 Resp: 82837

Ion Ratio Lower Upper

65 100

67 50.9 0.0 106.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. -0.03 min

Lab File: VF062120.D

Acq: 23 Mar 2019 16:36

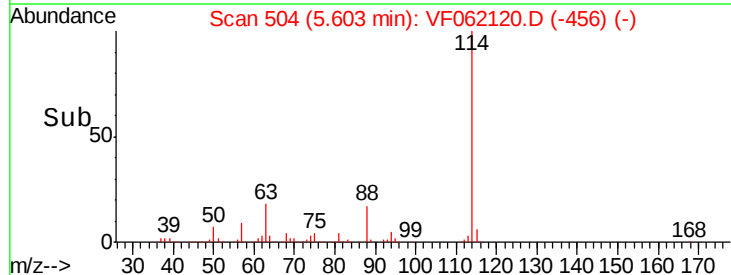
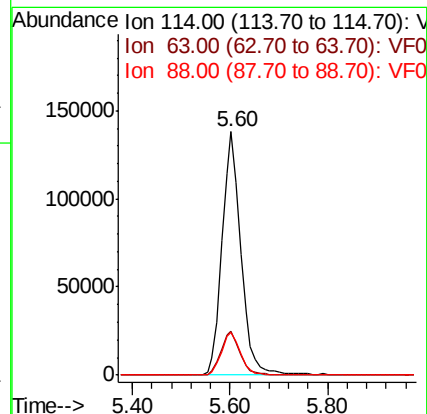
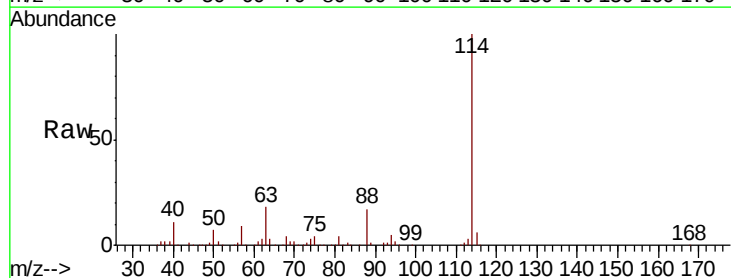
Tgt Ion: 114 Resp: 374024

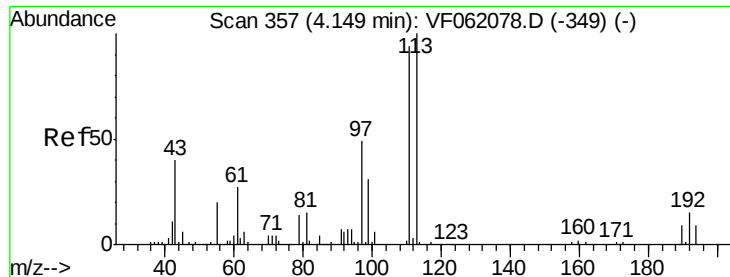
Ion Ratio Lower Upper

114 100

63 18.0 0.0 37.8

88 17.4 0.0 36.4





#35

Dibromofluoromethane

Concen: 45.811 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.04 min

Lab File: VF062120.D

Acq: 23 Mar 2019 16:36

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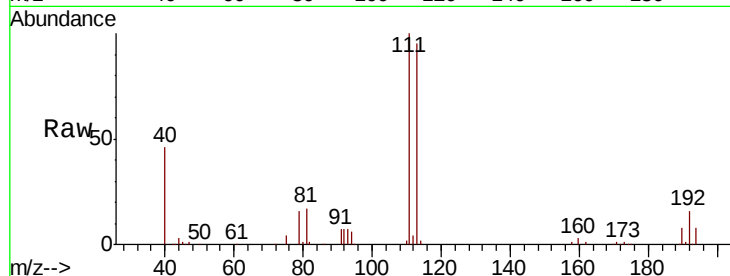
Tot Ion:113 Resp: 115907

Ion Ratio Lower Upper

113 100

111 105.4 75.4 113.0

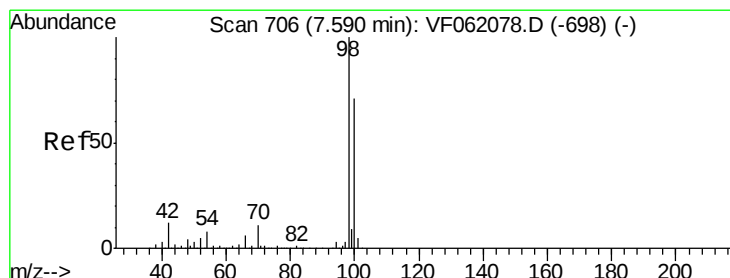
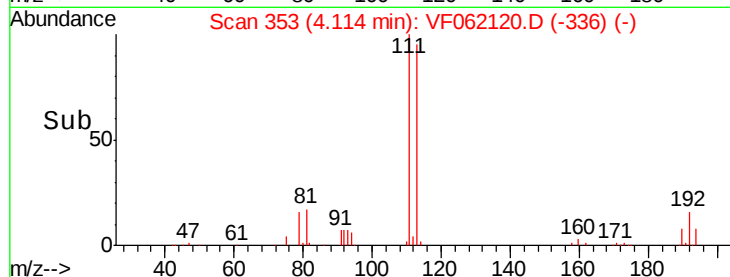
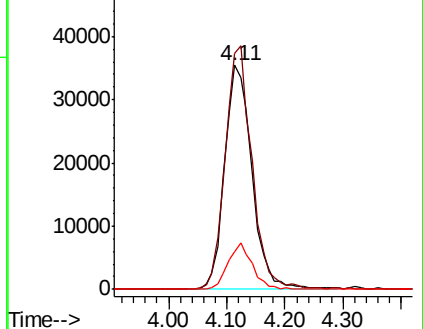
192 16.7 12.3 18.5



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: 37.549 ug/l

RT: 7.55 min Scan# 702

Delta R.T. -0.04 min

Lab File: VF062120.D

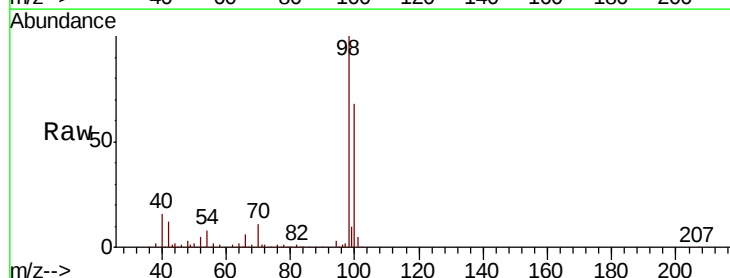
Acq: 23 Mar 2019 16:36

Tgt Ion: 98 Resp: 283588

Ion Ratio Lower Upper

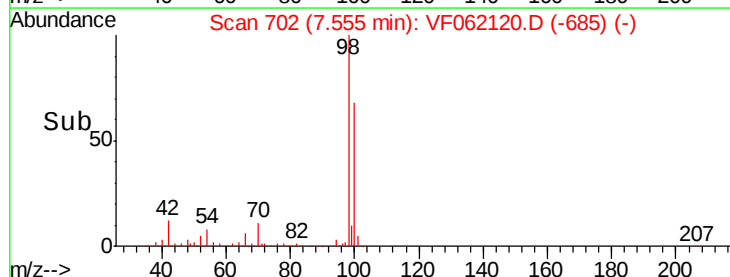
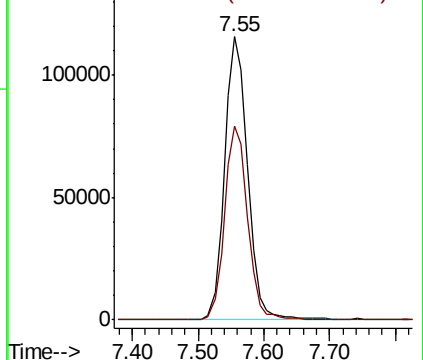
98 100

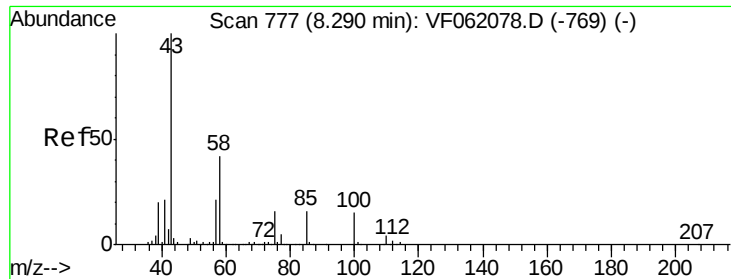
100 68.3 57.0 85.6



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: 1.555 ug/l

RT: 8.27 min Scan# 775

Delta R.T. -0.02 min

Lab File: VF062120.D

Acq: 23 Mar 2019 16:36

Instrument :

MSVOA_F

ClientSampleId :

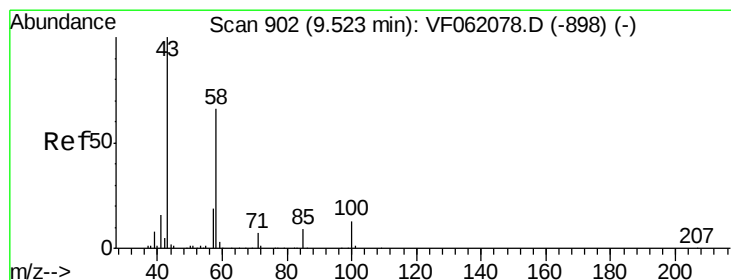
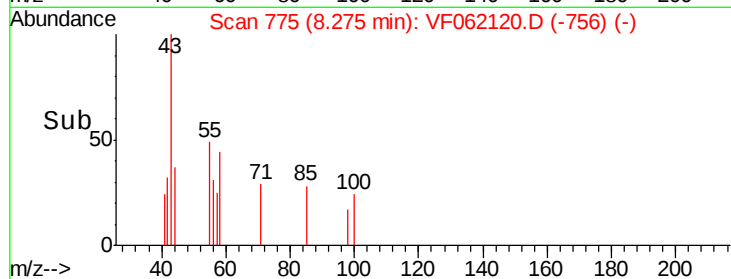
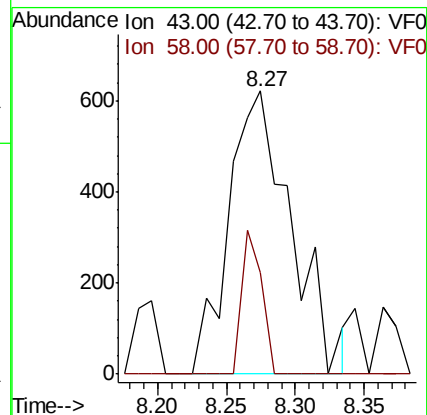
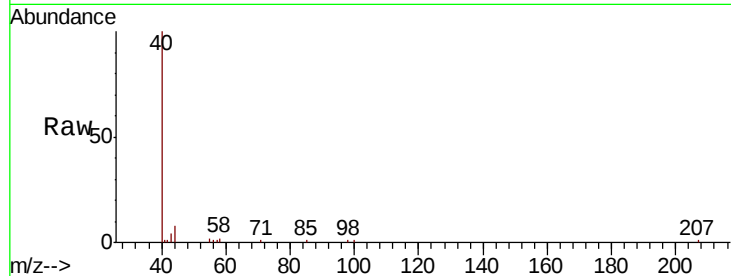
WP022SB439-190318-(25-27)

Tot Ion: 43 Resp: 1963

Ion Ratio Lower Upper

43 100

58 35.9 33.8 50.8



#59

2-Hexanone

Concen: 1.147 ug/l

RT: 9.51 min Scan# 900

Delta R.T. -0.02 min

Lab File: VF062120.D

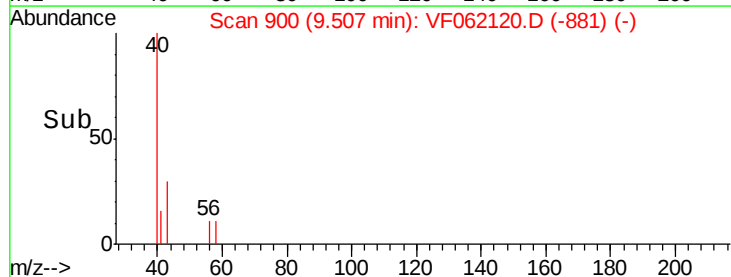
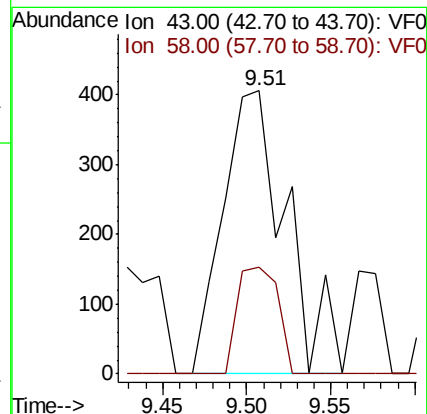
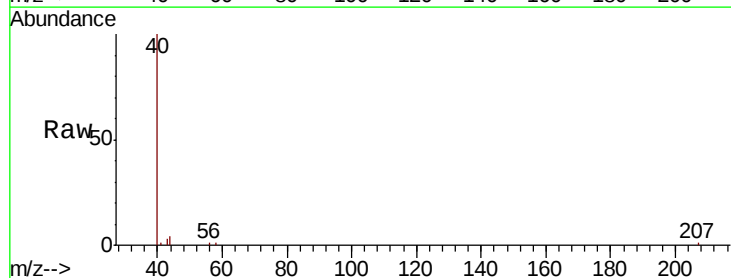
Acq: 23 Mar 2019 16:36

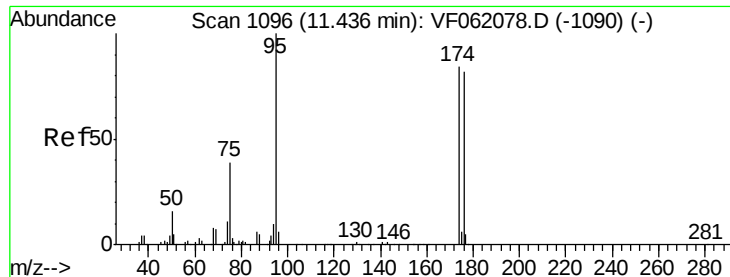
Tgt Ion: 43 Resp: 1061

Ion Ratio Lower Upper

43 100

58 37.9 28.8 86.4





#62

4-Bromofluorobenzene

Concen: 36.028 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.03 min

Lab File: VF062120.D

Acq: 23 Mar 2019 16:36

Instrument :

MSVOA_F

ClientSampleId :

WP022SB439-190318-(25-27)

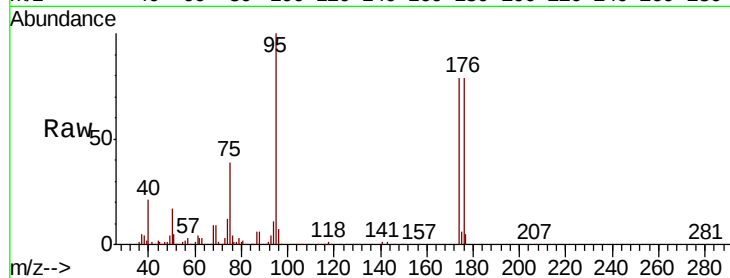
Tot Ion: 95 Resp: 105047

Ion Ratio Lower Upper

95 100

174 79.5 0.0 168.2

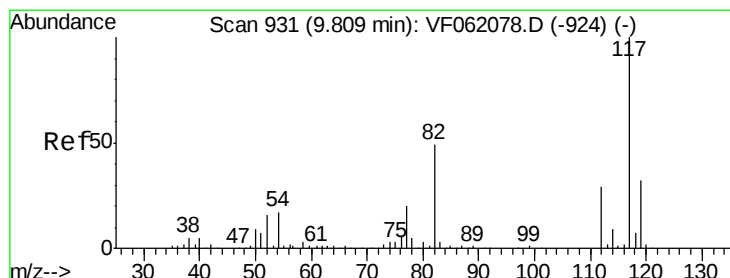
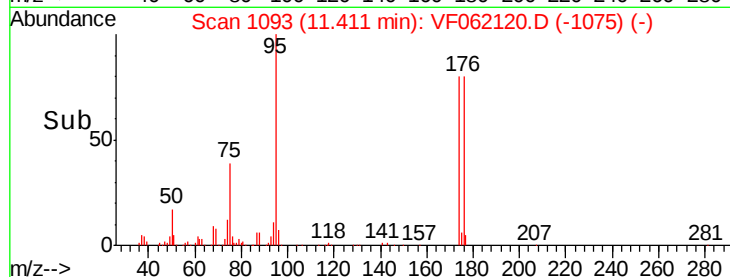
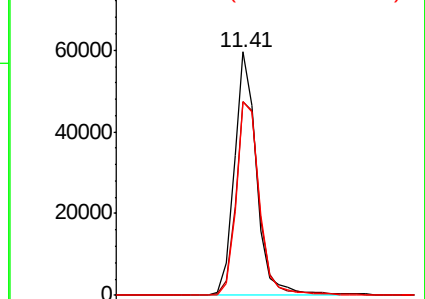
176 79.5 0.0 164.2



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.78 min Scan# 928

Delta R.T. -0.03 min

Lab File: VF062120.D

Acq: 23 Mar 2019 16:36

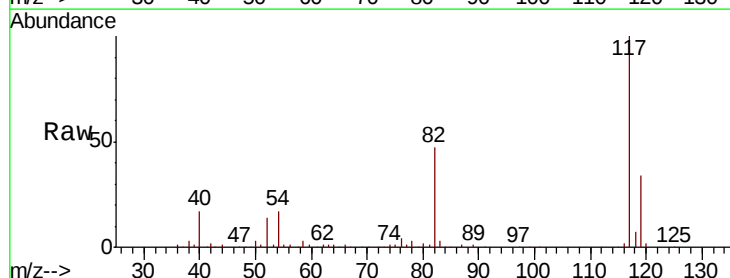
Tgt Ion: 117 Resp: 277403

Ion Ratio Lower Upper

117 100

82 47.0 39.2 58.8

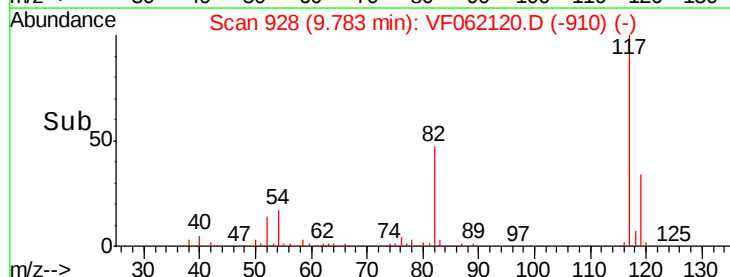
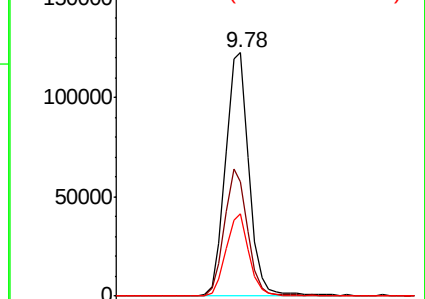
119 34.0 25.4 38.2

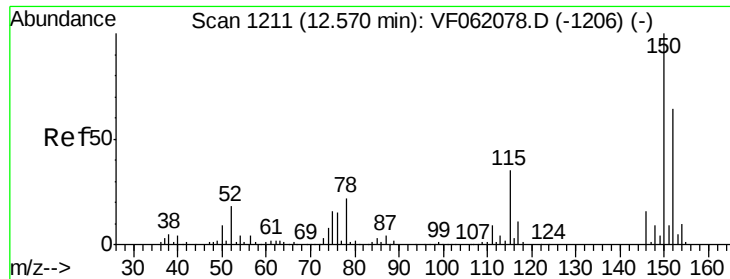


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1209

Delta R.T. -0.02 min

Lab File: VF062120.D

Acq: 23 Mar 2019 16:36

Instrument :

MSVOA_F

ClientSampleId :

WP022SB439-190318-(25-27)

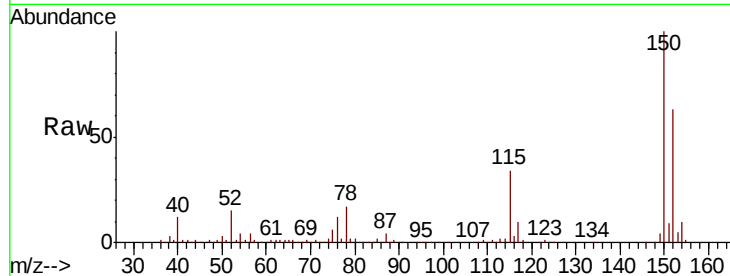
Tot Ion:152 Resp: 119999

Ion Ratio Lower Upper

152 100

115 53.9 27.7 83.1

150 158.4 0.0 313.2

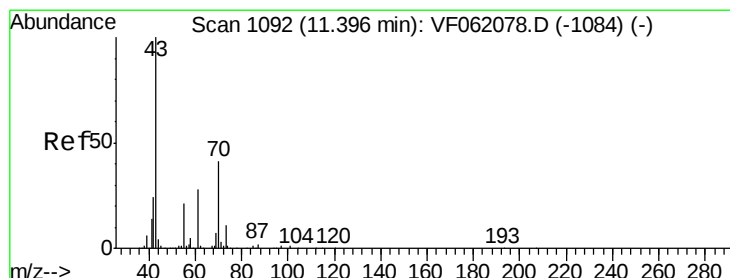
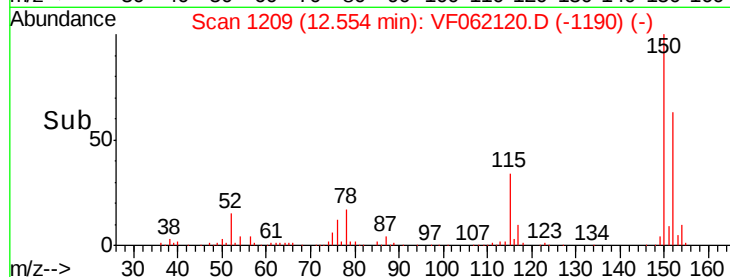
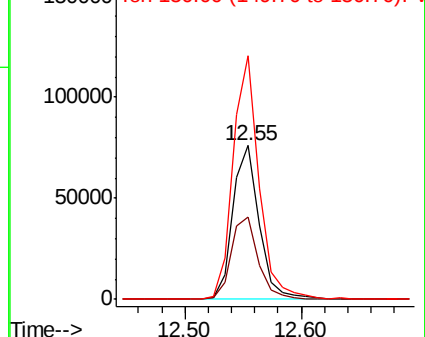


Abundance

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: 1.098 ug/l

RT: 11.39 min Scan# 1091

Delta R.T. -0.01 min

Lab File: VF062120.D

Acq: 23 Mar 2019 16:36

Tgt Ion: 43 Resp: 2209

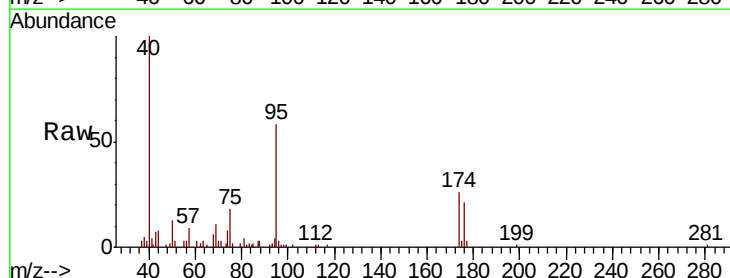
Ion Ratio Lower Upper

43 100

70 49.0 32.9 49.3

55 44.9 17.1 25.7#

61 47.8 22.2 33.2#



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

