

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030119\
 Data File : VF061812.D
 Acq On : 1 Mar 2019 19:46
 Operator : VA/AP
 Sample : K1675-17
 Misc : 5.27g/5mL/MSVOA-F/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 Z-4-A-B

Quant Time: Mar 02 02:47:31 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	4.85	168	300202	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	5.58	114	448090	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.76	117	345743	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.54	152	146748	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.83	65	99099	45.02	ug/l	-0.03
Spiked Amount				50.000		
Recovery						90.04%
35) Dibromofluoromethane	4.10	113	146747	44.10	ug/l	-0.02
Spiked Amount				50.000		
Recovery						88.20%
50) Toluene-d8	7.54	98	347373	36.31	ug/l	-0.03
Spiked Amount				50.000		
Recovery						72.62%
62) 4-Bromofluorobenzene	11.40	95	132867	34.33	ug/l	-0.02
Spiked Amount				50.000		
Recovery						68.66%

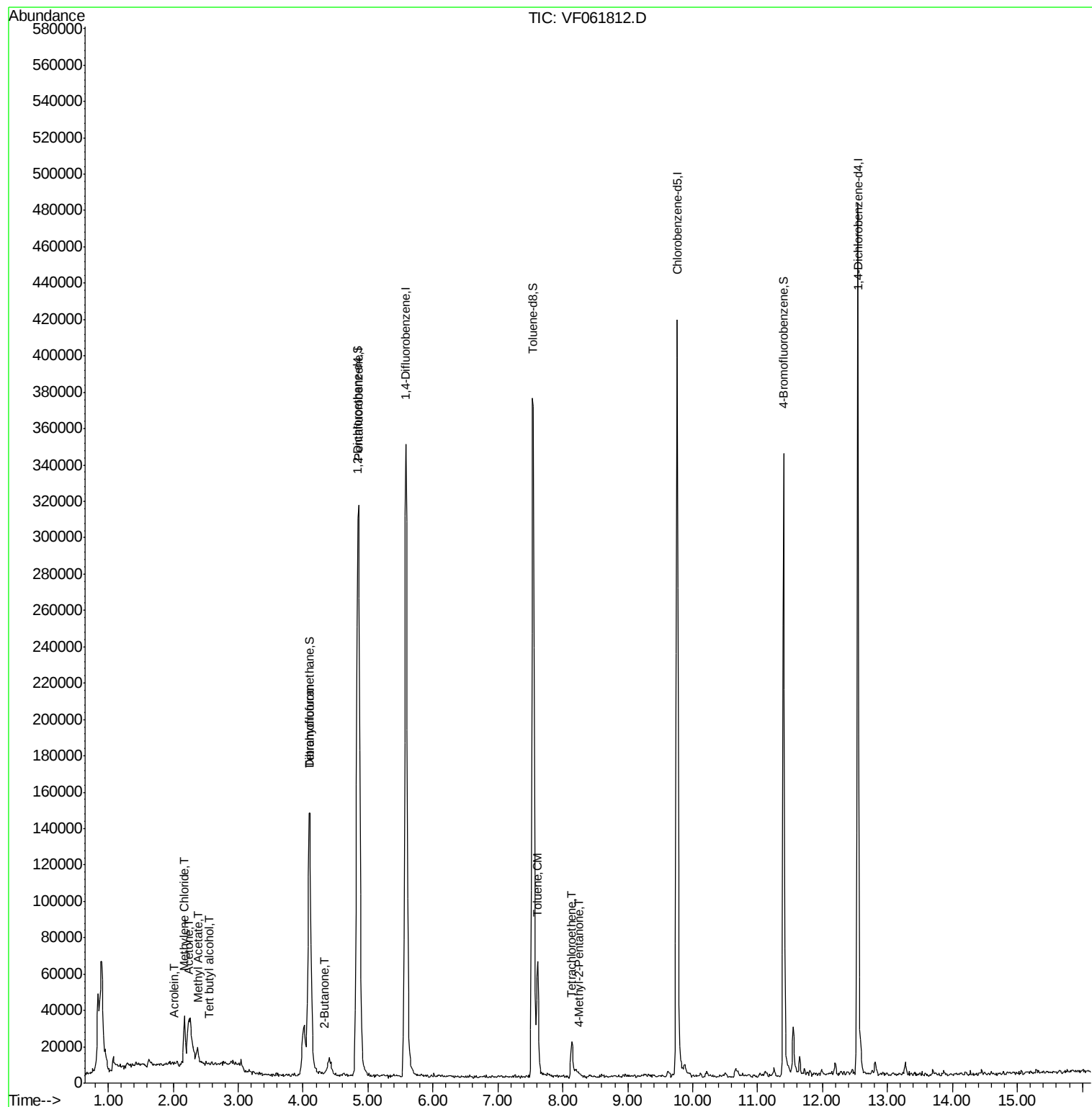
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.55	59	250	1.962	ug/l #	1
13) Acrolein	2.01	56	296	1.849	ug/l	84
16) Acetone	2.23	43	15021	31.802	ug/l #	85
18) Methyl Acetate	2.38	43	3595	3.379	ug/l #	59
20) Methylene Chloride	2.17	84	13468	2.949	ug/l	90
25) 2-Butanone	4.32	43	2410	2.336	ug/l	98
29) Tetrahydrofuran	4.08	42	2315	4.937	ug/l #	61
51) 4-Methyl-2-Pentanone	8.25	43	2677	1.535	ug/l	88
52) Toluene	7.61	92	33026	4.690	ug/l	99
64) Tetrachloroethene	8.15	164	6802	2.407	ug/l #	80

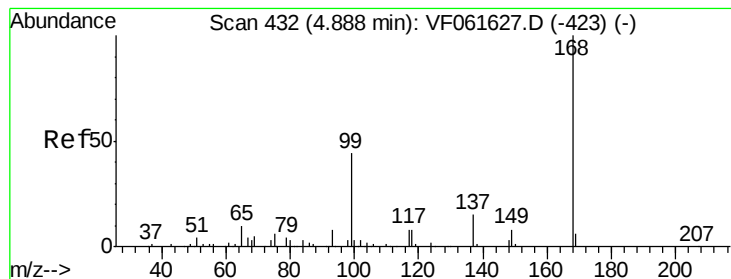
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF030119\
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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: 4.85 min Scan# 428

Delta R.T. -0.03 min

Lab File: VF061812.D

Acq: 1 Mar 2019 19:46

Instrument :

MSVOA_F

ClientSampleId :

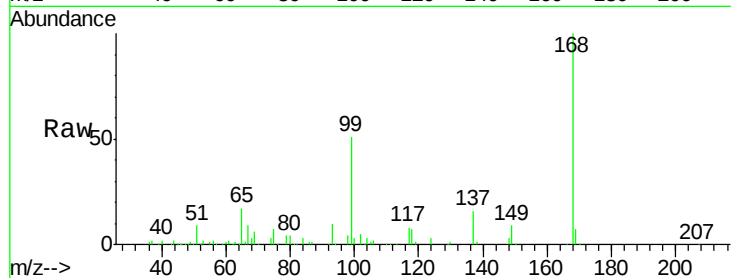
Z-4-A-B

Tot Ion:168 Resp: 300202

Ion Ratio Lower Upper

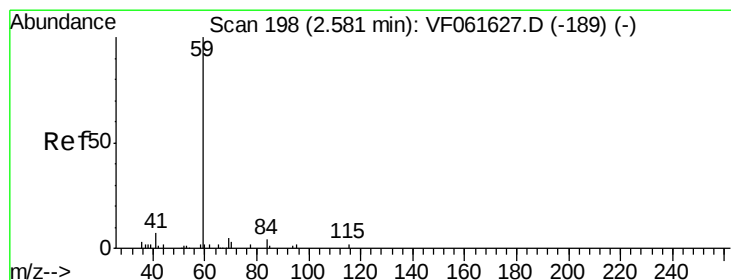
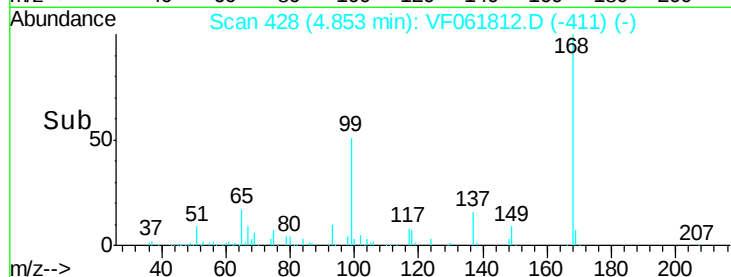
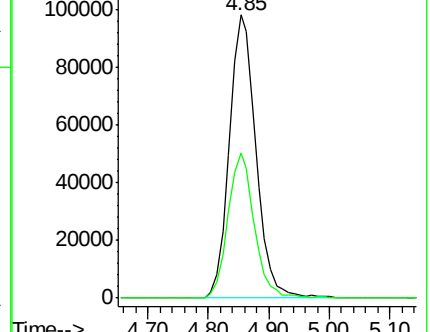
168 100

99 51.3 34.9 52.3



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0



#11

Tert butyl alcohol

Concen: 1.962 ug/l

RT: 2.55 min Scan# 194

Delta R.T. -0.03 min

Lab File: VF061812.D

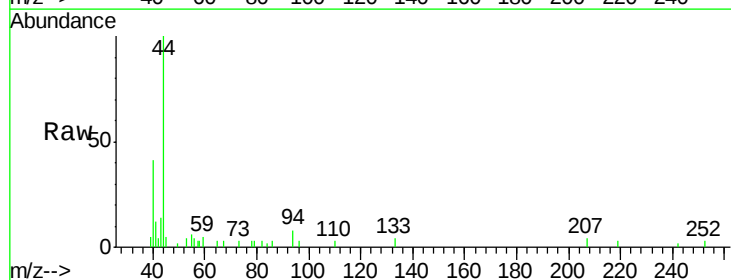
Acq: 1 Mar 2019 19:46

Tgt Ion: 59 Resp: 250

Ion Ratio Lower Upper

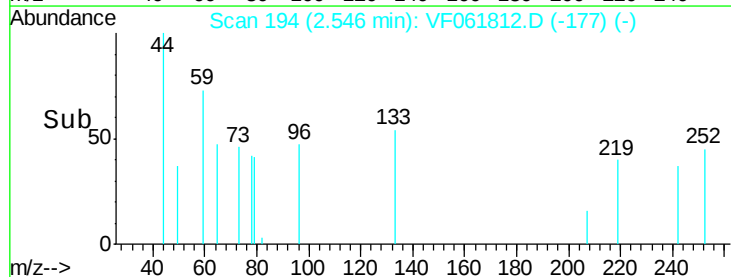
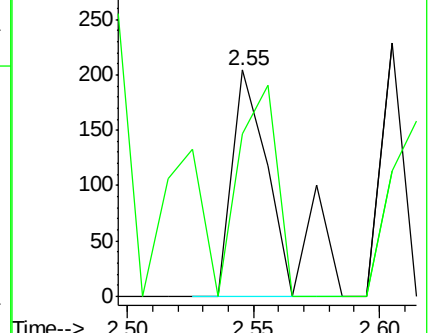
59 100

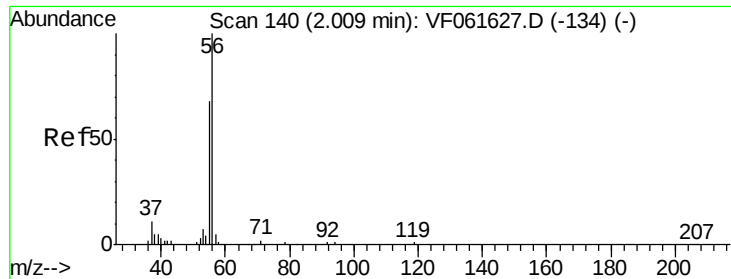
57 72.1 12.5 18.7#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0





#13

Acrolein

Concen: 1.849 ug/l

RT: 2.01 min Scan# 140

Delta R.T. 0.00 min

Lab File: VF061812.D

Acq: 1 Mar 2019 19:46

Instrument :

MSVOA_F

ClientSampleID :

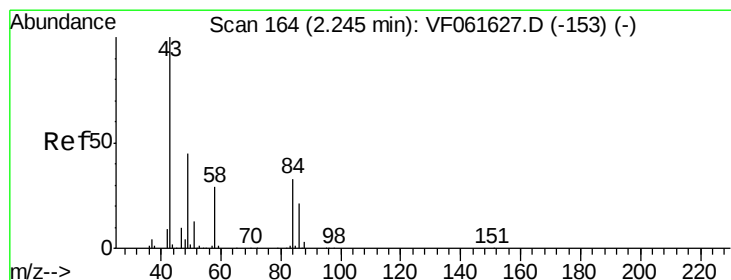
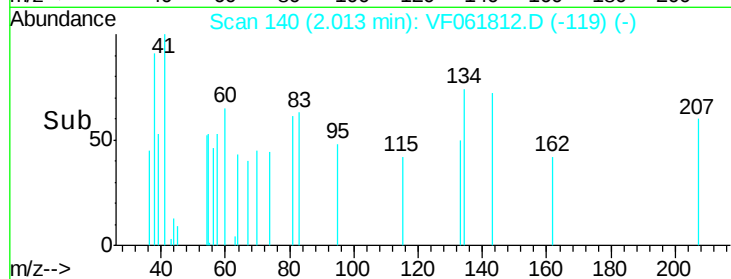
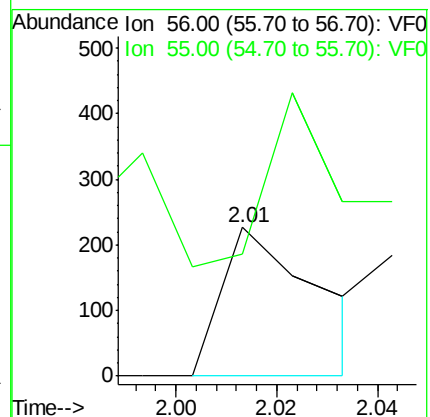
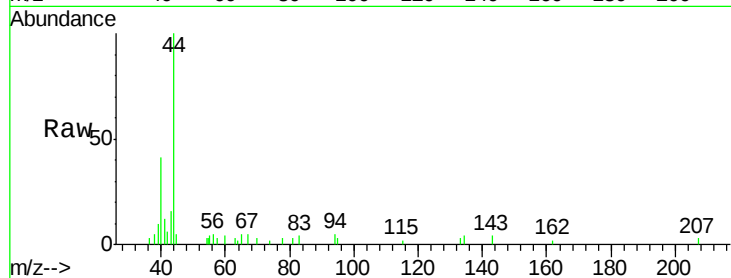
Z-4-A-B

Tot Ion: 56 Resp: 296

Ion Ratio Lower Upper

56 100

55 81.9 55.0 82.6



#16

Acetone

Concen: 31.802 ug/l

RT: 2.23 min Scan# 162

Delta R.T. -0.02 min

Lab File: VF061812.D

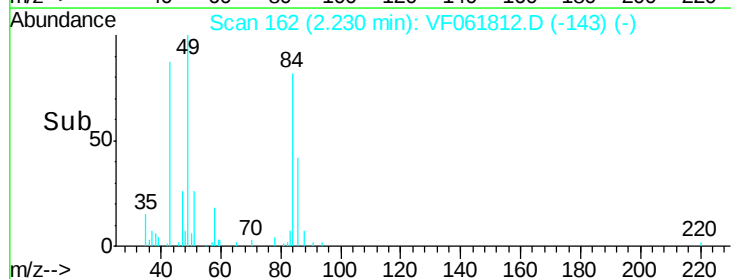
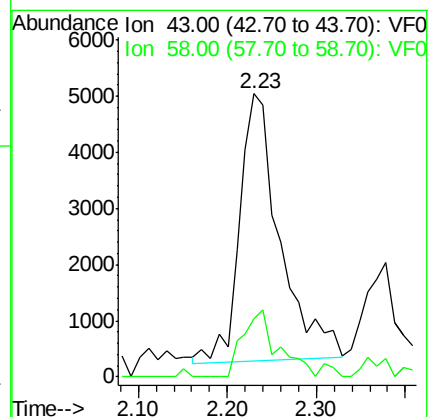
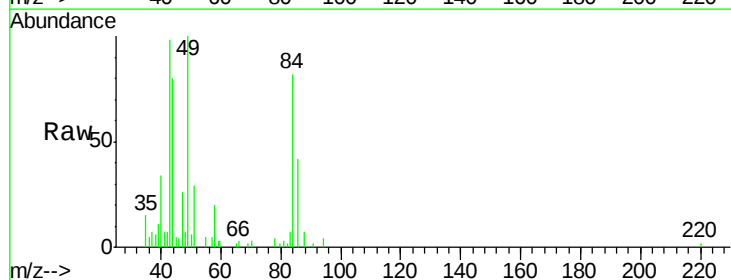
Acq: 1 Mar 2019 19:46

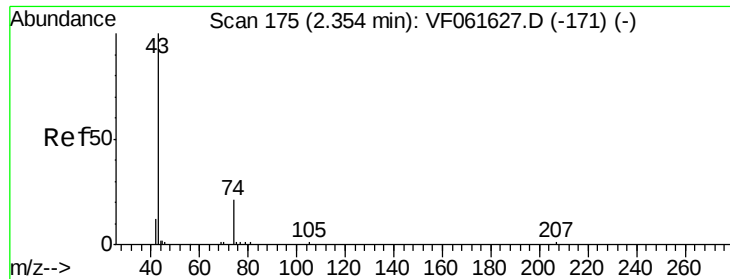
Tgt Ion: 43 Resp: 15021

Ion Ratio Lower Upper

43 100

58 20.7 22.9 34.3#

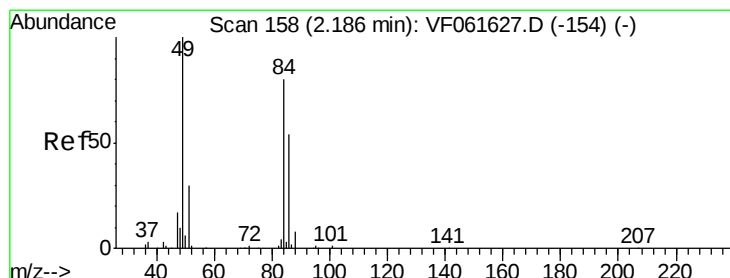
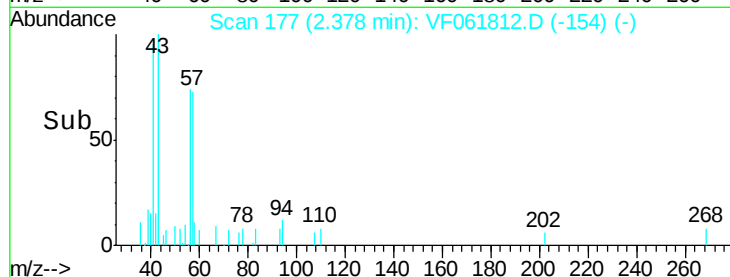
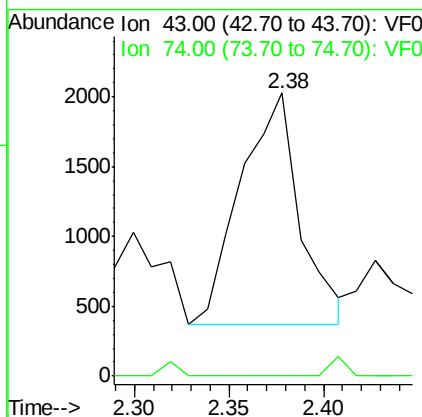
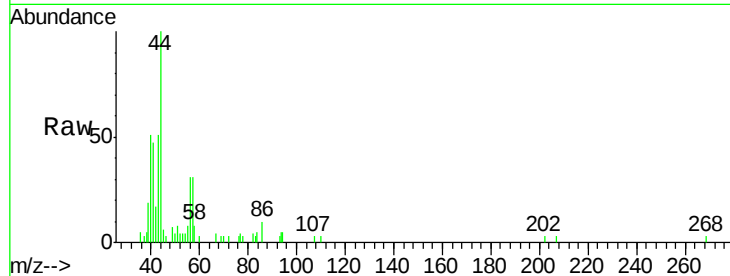




#18
Methyl Acetate
Concen: 3.379 ug/l
RT: 2.38 min Scan# 177
Delta R.T. 0.02 min
Lab File: VF061812.D
Acq: 1 Mar 2019 19:46

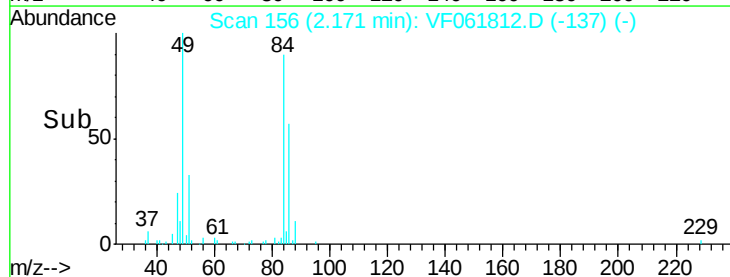
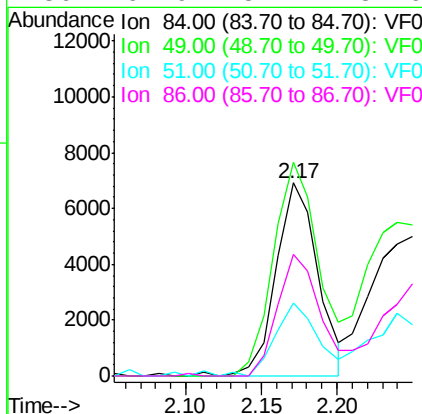
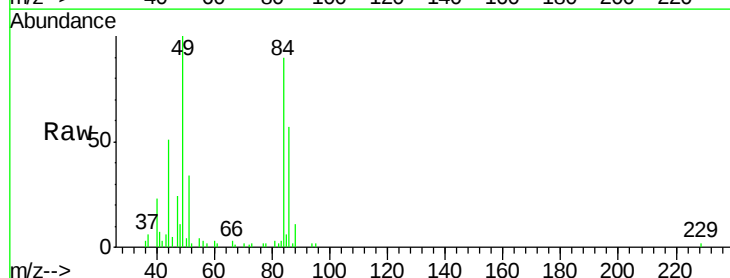
Instrument :
MSVOA_F
ClientSampled :
Z-4-A-B

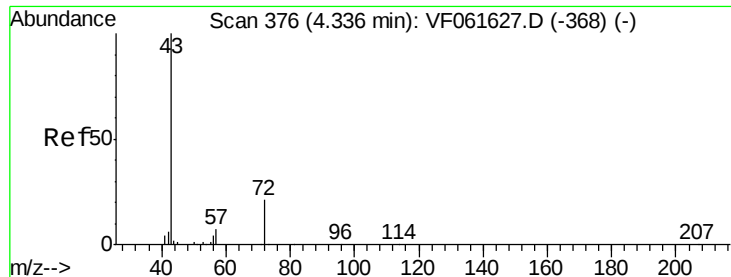
Tot Ion: 43 Resp: 3595
Ion Ratio Lower Upper
43 100
74 0.0 14.6 21.8#



#20
Methylene Chloride
Concen: 2.949 ug/l
RT: 2.17 min Scan# 156
Delta R.T. -0.02 min
Lab File: VF061812.D
Acq: 1 Mar 2019 19:46

Tgt Ion: 84 Resp: 13468
Ion Ratio Lower Upper
84 100
49 110.6 101.8 152.8
51 38.0 31.1 46.7
86 62.9 54.4 81.6





#25

2-Butanone

Concen: 2.336 ug/l

RT: 4.32 min Scan# 374

Delta R.T. -0.02 min

Lab File: VF061812.D

Acq: 1 Mar 2019 19:46

Instrument :

MSVOA_F

ClientSampleId :

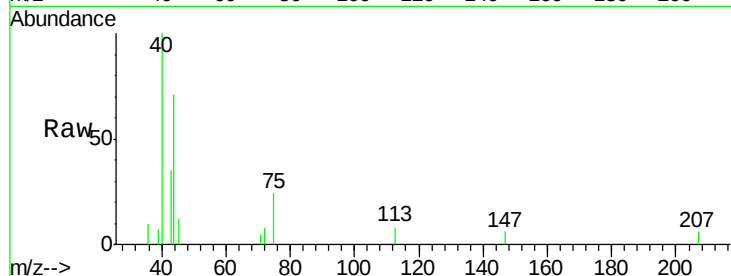
Z-4-A-B

Tot Ion: 43 Resp: 2410

Ion Ratio Lower Upper

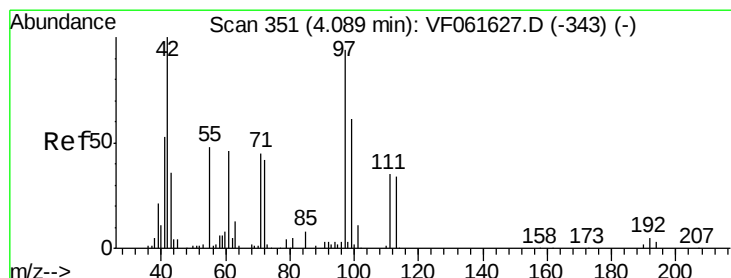
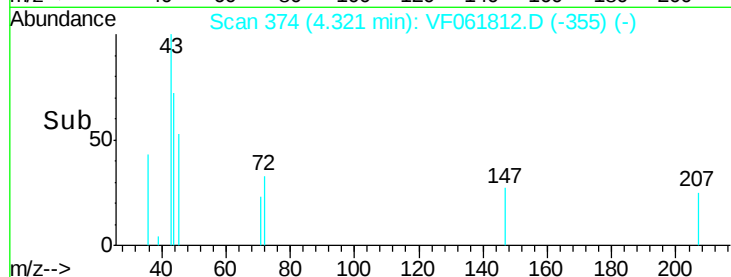
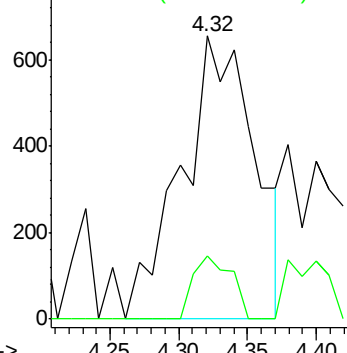
43 100

72 22.1 17.1 25.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#29

Tetrahydrofuran

Concen: 4.937 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.01 min

Lab File: VF061812.D

Acq: 1 Mar 2019 19:46

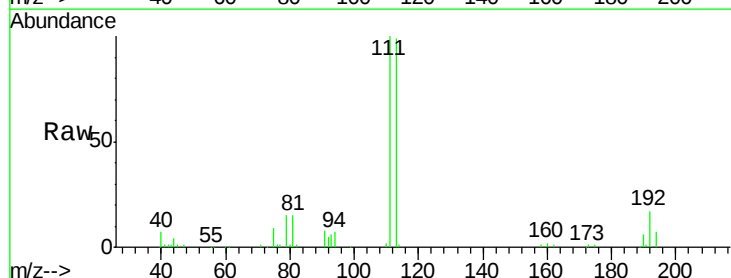
Tgt Ion: 42 Resp: 2315

Ion Ratio Lower Upper

42 100

72 15.2 35.2 52.8#

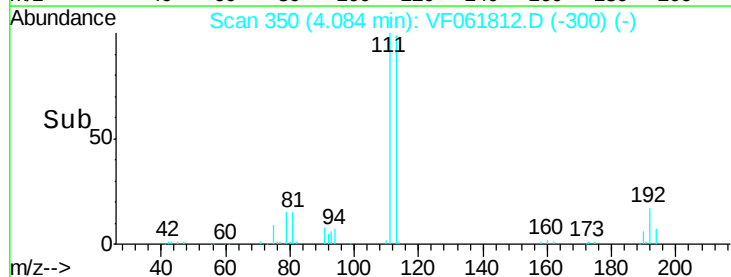
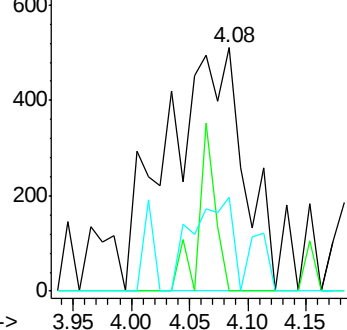
71 20.3 32.9 49.3#

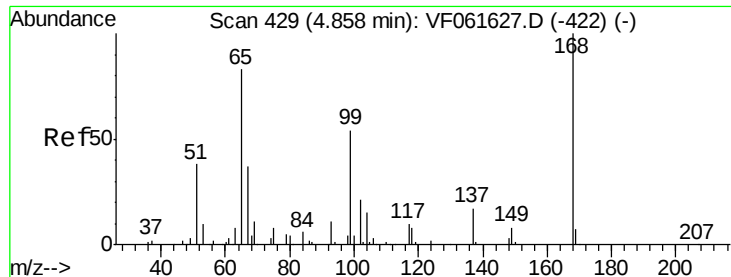


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 45.016 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.03 min

Lab File: VF061812.D

Acq: 1 Mar 2019 19:46

Instrument :

MSVOA_F

ClientSampled :

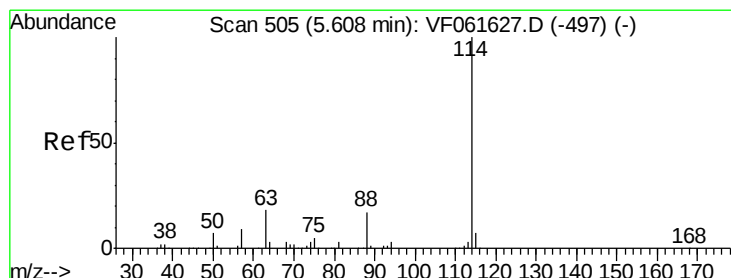
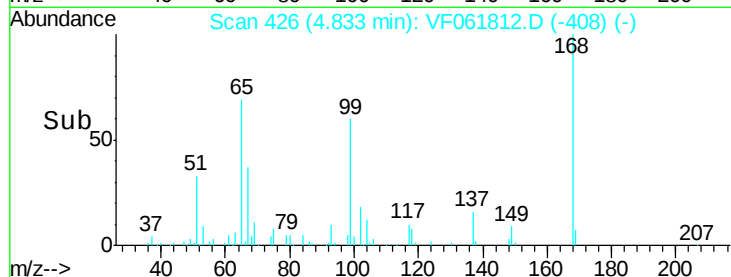
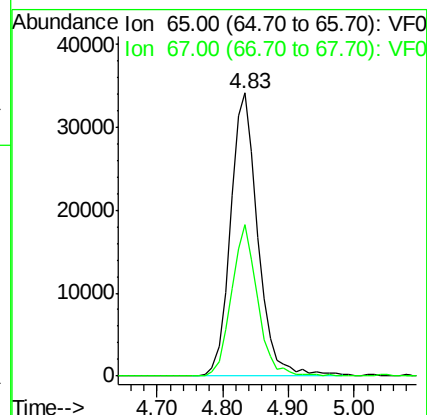
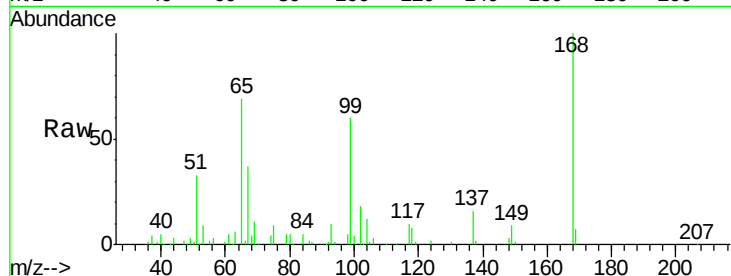
Z-4-A-B

Tot Ion: 65 Resp: 99099

Ion Ratio Lower Upper

65 100

67 53.5 0.0 104.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.58 min Scan# 502

Delta R.T. -0.03 min

Lab File: VF061812.D

Acq: 1 Mar 2019 19:46

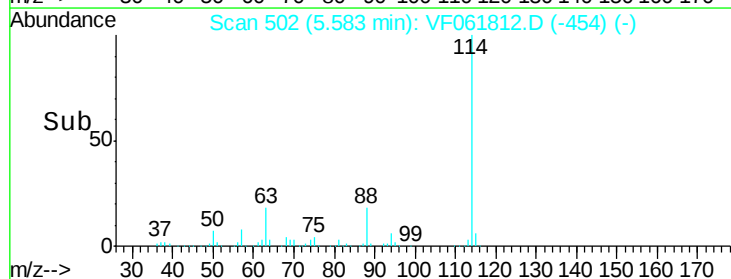
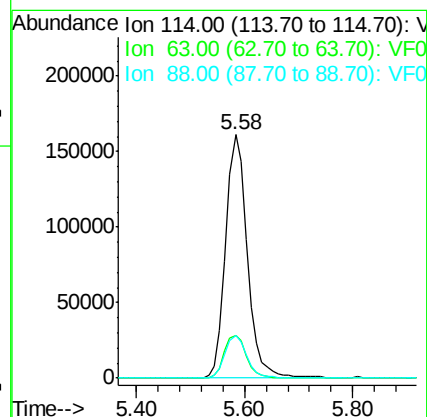
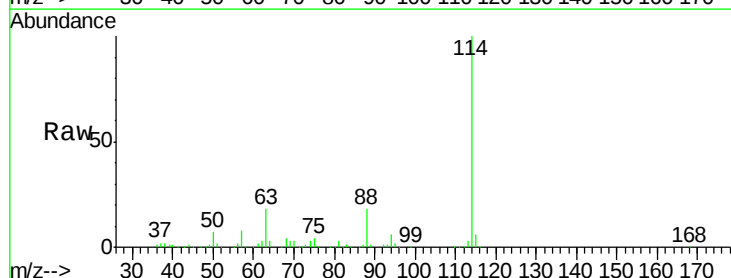
Tgt Ion: 114 Resp: 448090

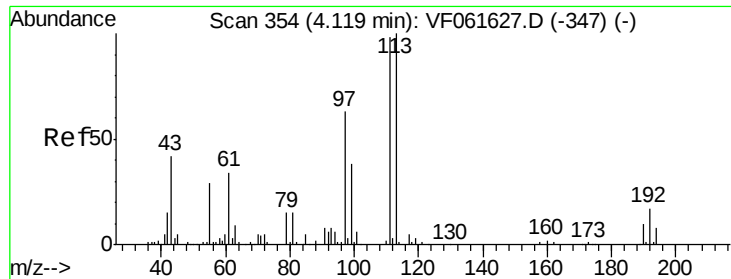
Ion Ratio Lower Upper

114 100

63 17.8 0.0 36.6

88 17.8 0.0 34.4

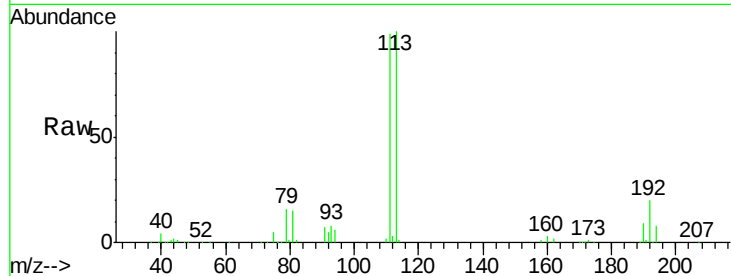




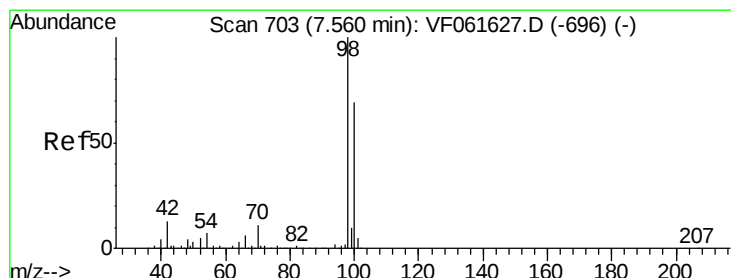
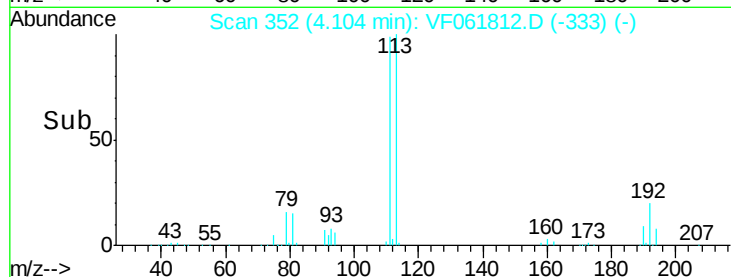
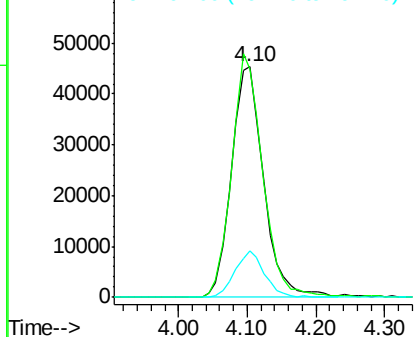
#35
 Dibromofluoromethane
 Concen: 44.101 ug/l
 RT: 4.10 min Scan# 352
 Delta R.T. -0.02 min
 Lab File: VF061812.D
 Acq: 1 Mar 2019 19:46

Instrument :
 MSVOA_F
 ClientSampleId :
 Z-4-A-B

Tot Ion:113 Resp: 146747
 Ion Ratio Lower Upper
 113 100
 111 99.4 78.8 118.2
 192 20.0 13.4 20.0

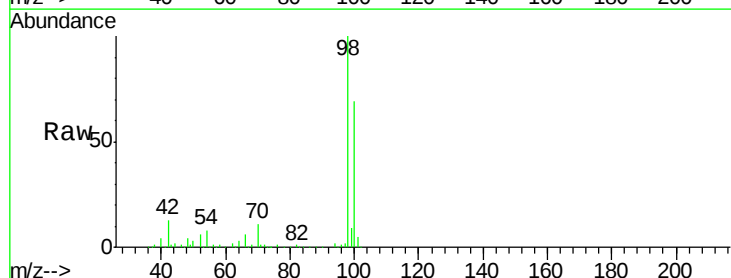


Abundance Ion 113.00 (112.70 to 113.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 192.00 (191.70 to 192.70): V

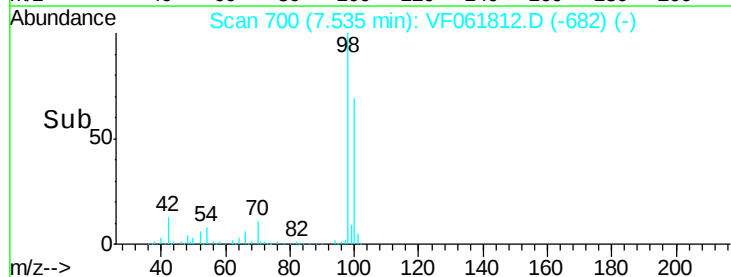
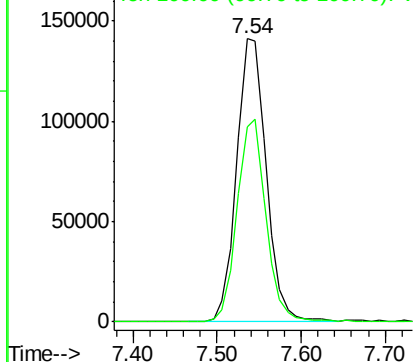


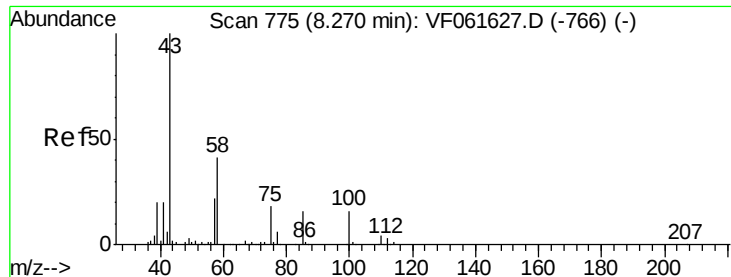
#50
 Toluene-d8
 Concen: 36.314 ug/l
 RT: 7.54 min Scan# 700
 Delta R.T. -0.03 min
 Lab File: VF061812.D
 Acq: 1 Mar 2019 19:46

Tgt Ion: 98 Resp: 347373
 Ion Ratio Lower Upper
 98 100
 100 69.1 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: 1.535 ug/l

RT: 8.25 min Scan# 772

Delta R.T. -0.03 min

Lab File: VF061812.D

Acq: 1 Mar 2019 19:46

Instrument :

MSVOA_F

ClientSampleId :

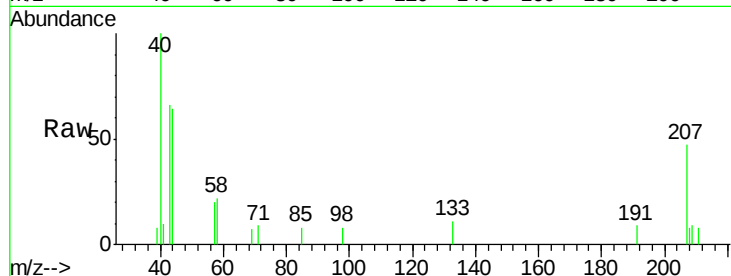
Z-4-A-B

Tot Ion: 43 Resp: 2677

Ion Ratio Lower Upper

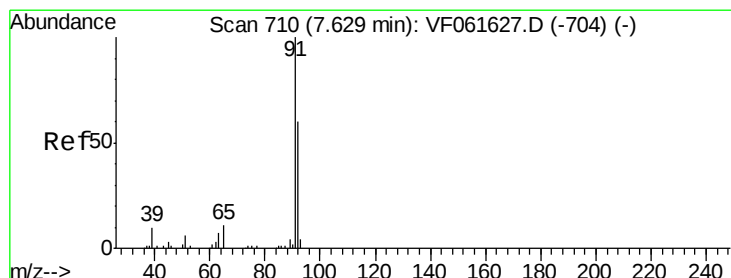
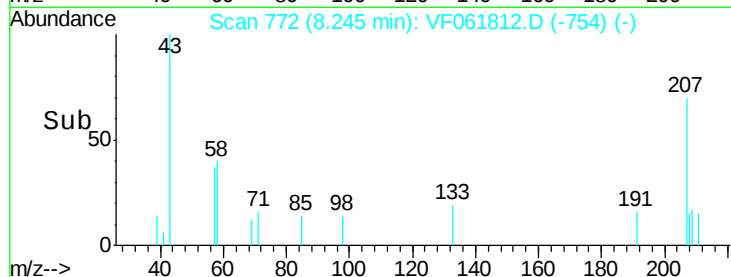
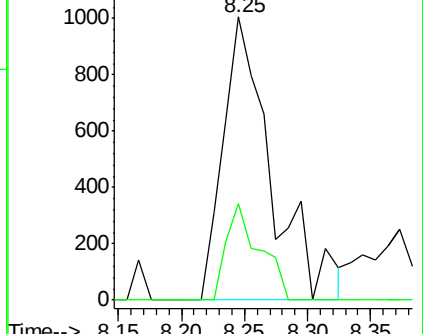
43 100

58 33.9 33.1 49.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 4.690 ug/l

RT: 7.61 min Scan# 708

Delta R.T. -0.02 min

Lab File: VF061812.D

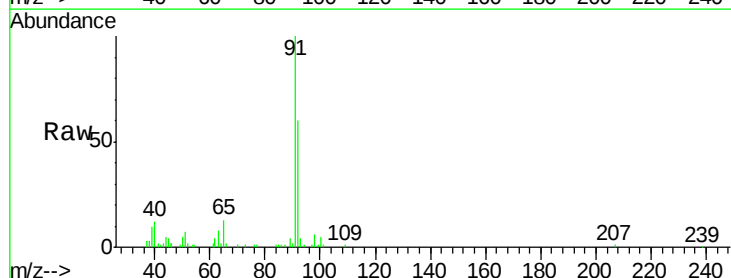
Acq: 1 Mar 2019 19:46

Tgt Ion: 92 Resp: 33026

Ion Ratio Lower Upper

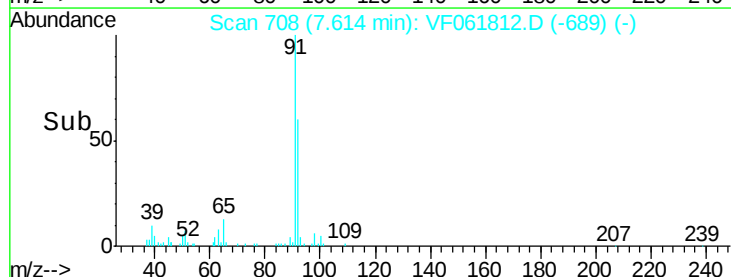
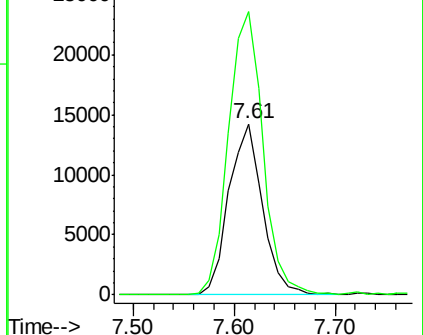
92 100

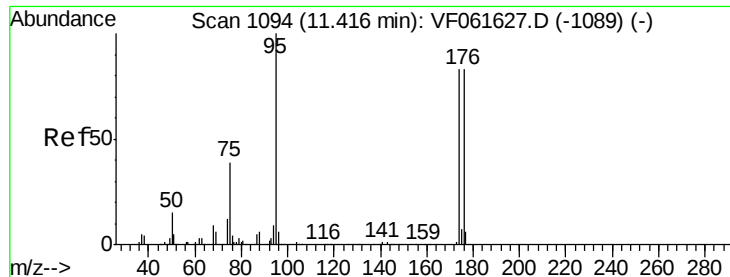
91 165.4 133.9 200.9



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#62

4-Bromofluorobenzene

Concen: 34.328 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.02 min

Lab File: VF061812.D

Acq: 1 Mar 2019 19:46

Instrument :

MSVOA_F

ClientSampleId :

Z-4-A-B

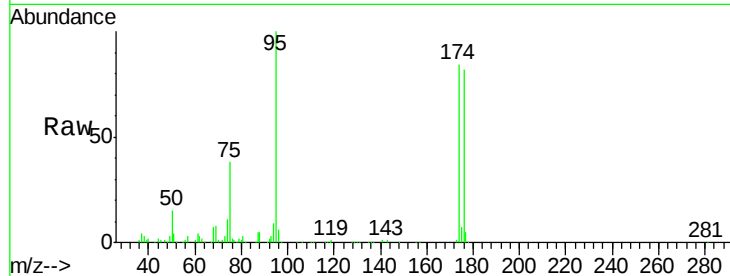
Tot Ion: 95 Resp: 132867

Ion Ratio Lower Upper

95 100

174 84.4 0.0 165.8

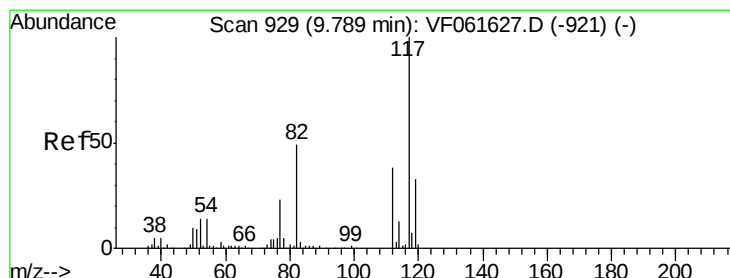
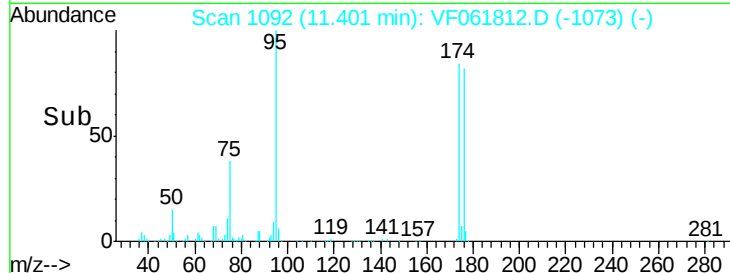
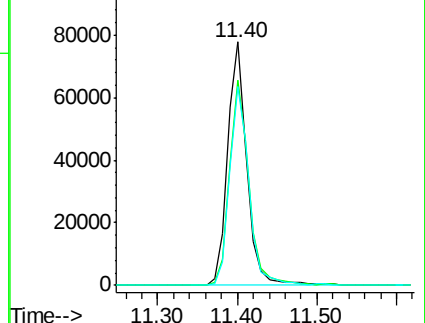
176 81.7 0.0 167.0



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: 9.76 min Scan# 926

Delta R.T. -0.03 min

Lab File: VF061812.D

Acq: 1 Mar 2019 19:46

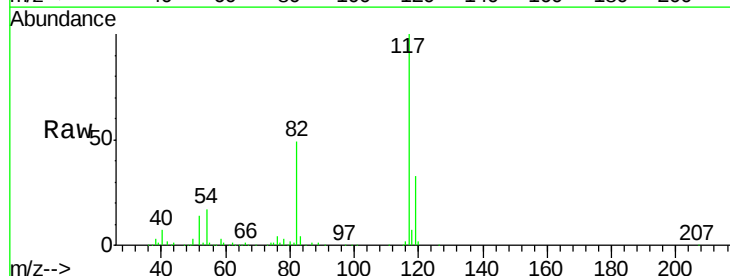
Tgt Ion: 117 Resp: 345743

Ion Ratio Lower Upper

117 100

82 49.2 39.3 58.9

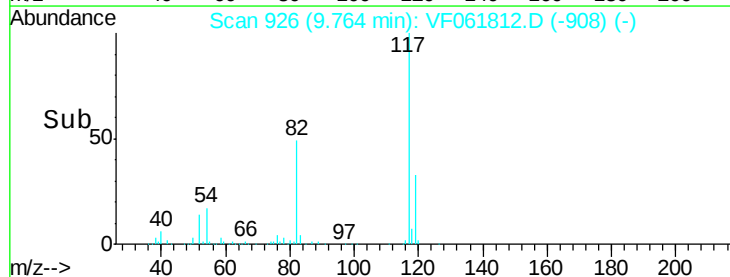
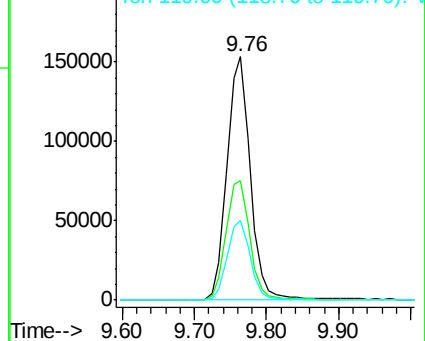
119 32.9 26.6 40.0

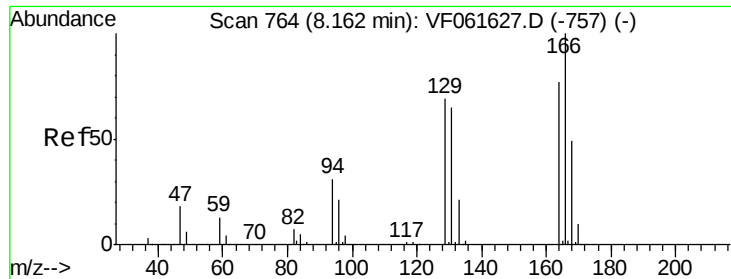


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0





#64

Tetrachloroethene

Concen: 2.407 ug/l

RT: 8.15 min Scan# 762

Delta R.T. -0.02 min

Lab File: VF061812.D

Acq: 1 Mar 2019 19:46

Instrument :

MSVOA_F

ClientSampleId :

Z-4-A-B

Tot Ion:164 Resp: 6802

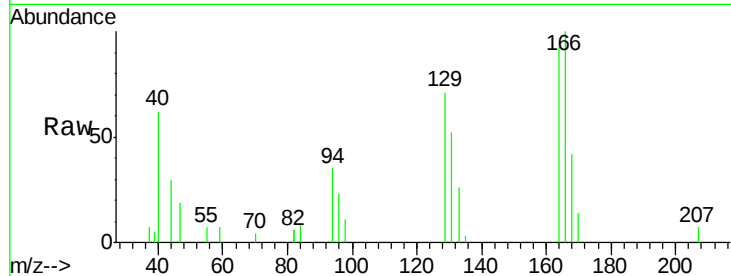
Ion Ratio Lower Upper

164 100

166 107.8 103.9 155.9

129 76.6 71.3 106.9

131 56.5 67.1 100.7#

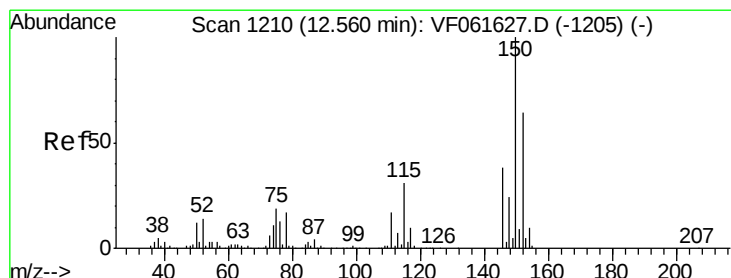
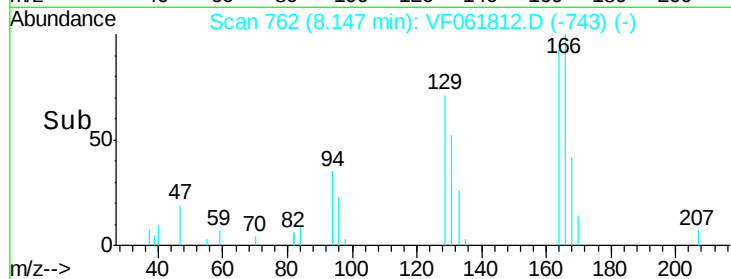
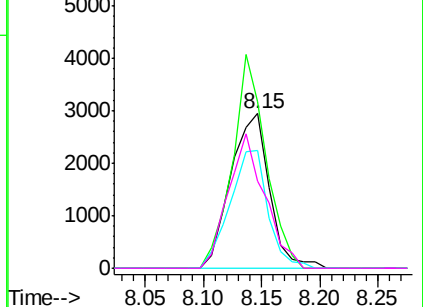


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.54 min Scan# 1208

Delta R.T. -0.02 min

Lab File: VF061812.D

Acq: 1 Mar 2019 19:46

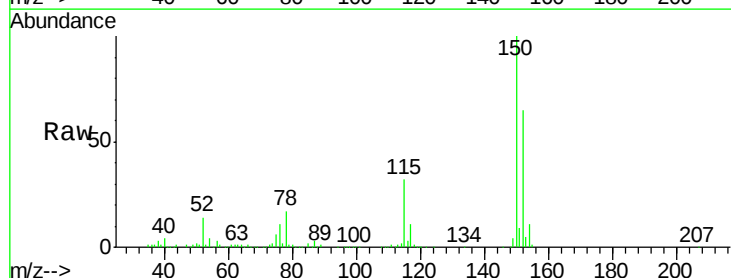
Tgt Ion:152 Resp: 146748

Ion Ratio Lower Upper

152 100

115 48.7 24.3 72.8

150 153.5 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

