

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF031519\
 Data File : VF061968.D
 Acq On : 15 Mar 2019 18:37
 Operator : VA/AP
 Sample : K1928-11
 Misc : 6.51g/5mL/MSVOA-F/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SI-2(1.5-2)

Quant Time: Mar 15 23:18:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:50:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	163666	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.61	114	255428	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.79	117	215280	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.56	152	110596	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.86	65	62857	52.74	ug/l	0.01
Spiked Amount			Recovery	=	105.48%	
35) Dibromofluoromethane	4.13	113	77729	43.61	ug/l	0.01
Spiked Amount			Recovery	=	87.22%	
50) Toluene-d8	7.57	98	228813	43.19	ug/l	0.00
Spiked Amount			Recovery	=	86.38%	
62) 4-Bromofluorobenzene	11.42	95	94960	45.75	ug/l	0.00
Spiked Amount			Recovery	=	91.50%	

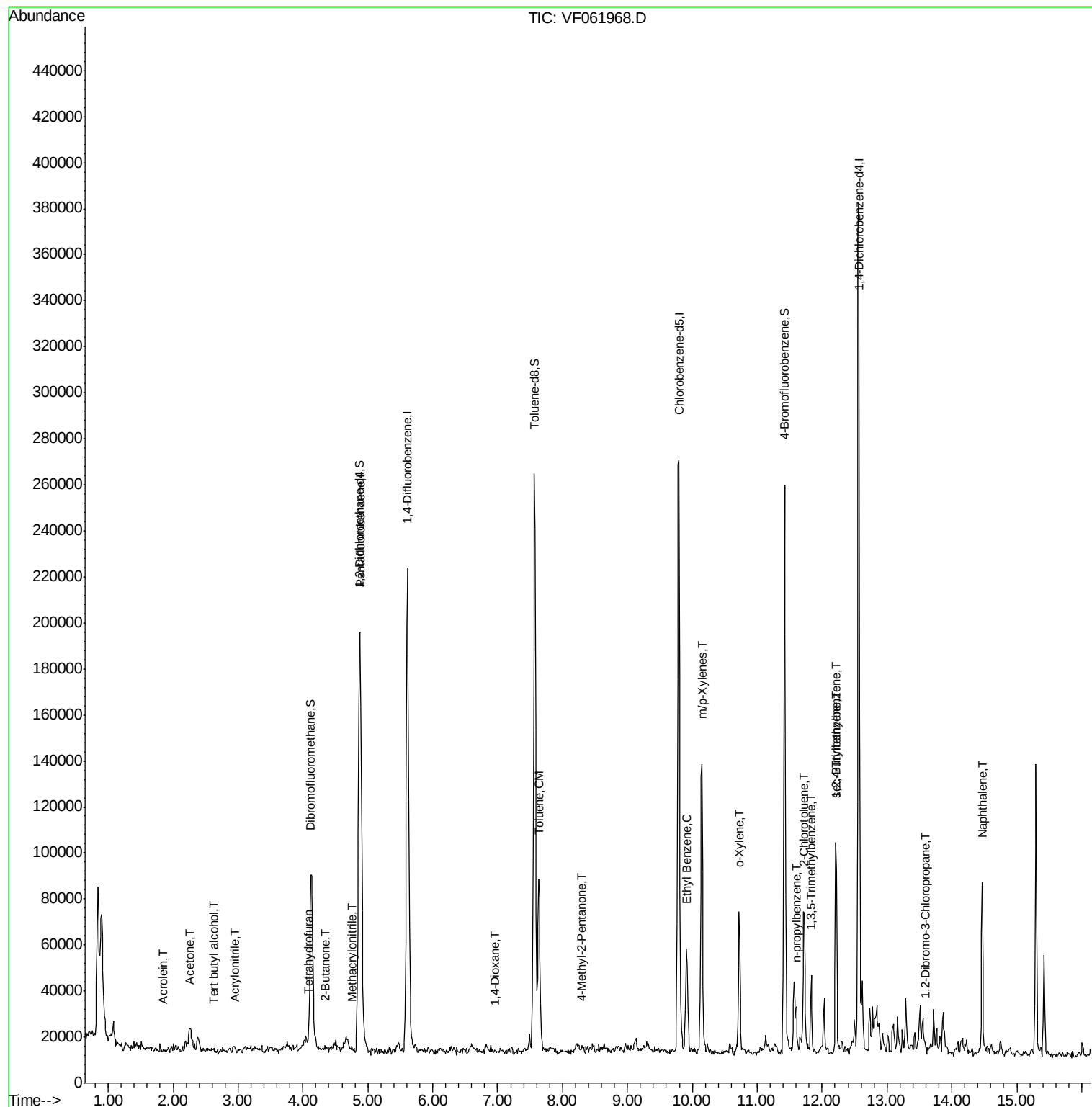
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.62	59	122	1.803	ug/l #	1
13) Acrolein	1.85	56	186	2.170	ug/l	97
15) Acrylonitrile	2.95	53	276	1.281	ug/l #	24
16) Acetone	2.25	43	4619	18.501	ug/l	95
18) Methyl Acetate	2.39	43	2988	Below Cal	#	62
20) Methylene Chloride	2.19	84	1988	Below Cal	#	76
25) 2-Butanone	4.34	43	987	1.944	ug/l #	56
29) Tetrahydrofuran	4.07	42	699	3.192	ug/l #	40
41) Methacrylonitrile	4.76	41	789	1.422	ug/l #	24
49) 1,4-Dioxane	6.97	88	60	8.308	ug/l #	1
51) 4-Methyl-2-Pentanone	8.29	43	2234	2.589	ug/l	93
52) Toluene	7.63	92	44857	12.023	ug/l	90
67) Ethyl Benzene	9.91	91	38958	5.683	ug/l	98
68) m/p-Xylenes	10.15	106	48527	18.478	ug/l	92
69) o-Xylene	10.72	106	19560	6.917	ug/l	83
78) n-propylbenzene	11.61	91	14957	1.740	ug/l	98
79) 2-Chlorotoluene	11.72	91	5869	1.194	ug/l #	39
80) 1,3,5-Trimethylbenzene	11.84	105	16455	2.692	ug/l	90
84) 1,2,4-Trimethylbenzene	12.21	105	53820	8.981	ug/l	93
85) sec-Butylbenzene	12.21	105	53820	6.371	ug/l #	57
92) 1,2-Dibromo-3-Chloropropan	13.60	75	65	4.041	ug/l #	1
95) Naphthalene	14.47	128	55739	13.541	ug/l	98

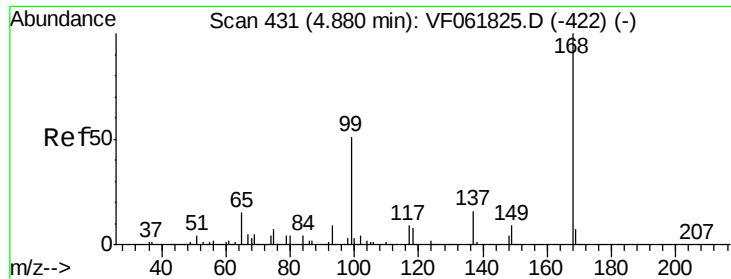
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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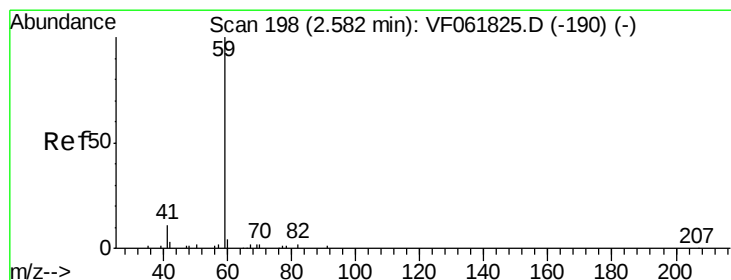
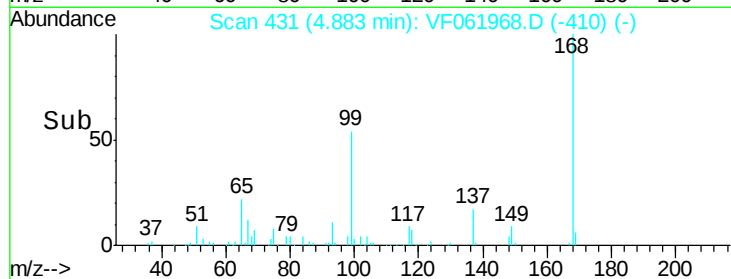
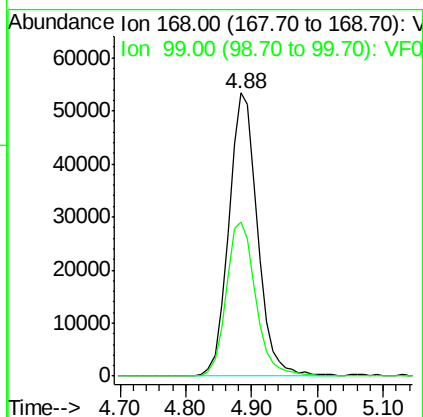
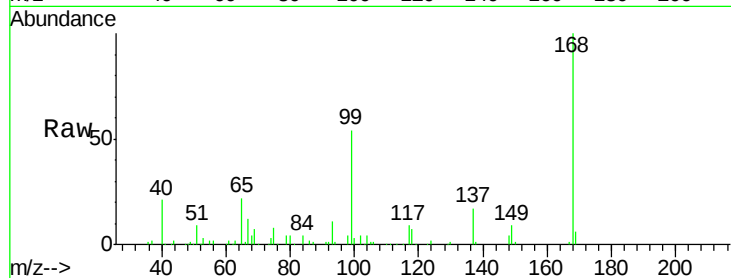




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.88 min Scan# 431
Delta R.T. 0.00 min
Lab File: VF061968.D
Acq: 15 Mar 2019 18:37

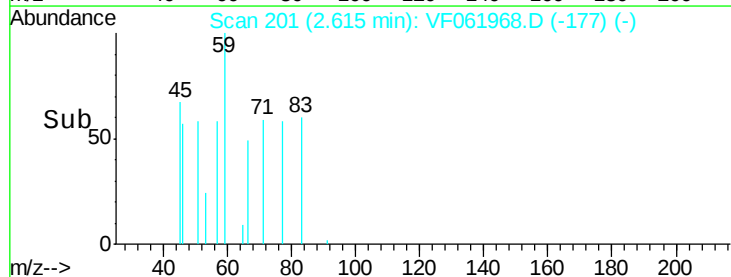
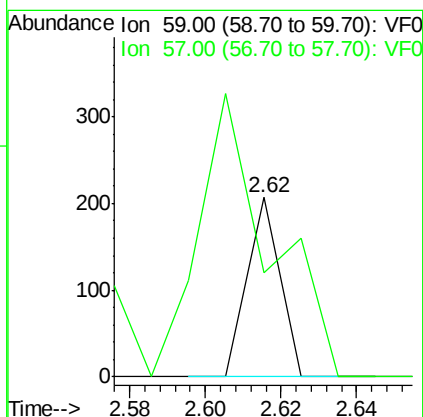
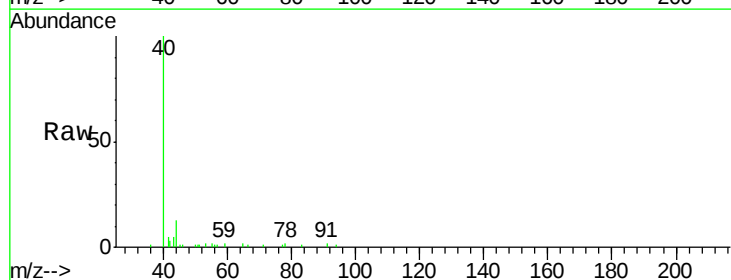
Instrument :
MSVOA_F
ClientSampleId :
SI-2(1.5-2)

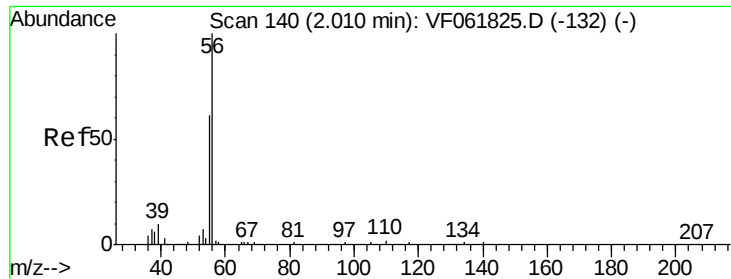
Tot Ion:168 Resp: 163666
Ion Ratio Lower Upper
168 100
99 54.5 40.8 61.2



#11
Tert butyl alcohol
Concen: 1.803 ug/l
RT: 2.62 min Scan# 201
Delta R.T. 0.03 min
Lab File: VF061968.D
Acq: 15 Mar 2019 18:37

Tgt Ion: 59 Resp: 122
Ion Ratio Lower Upper
59 100
57 58.0 11.8 17.6#





#13

Acrolein

Concen: 2.170 ug/l

RT: 1.85 min Scan# 123

Delta R.T. -0.16 min

Lab File: VF061968.D

Acq: 15 Mar 2019 18:37

Instrument :

MSVOA_F

ClientSampleId :

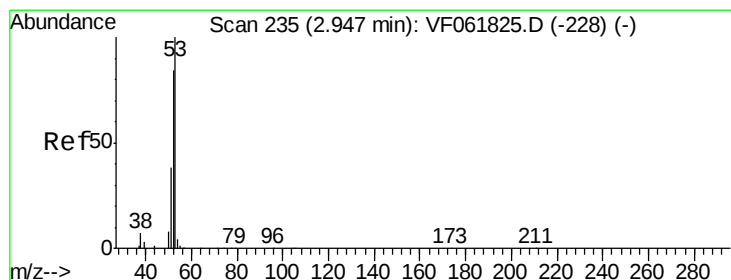
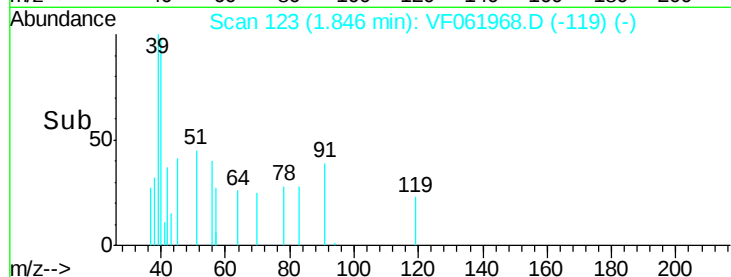
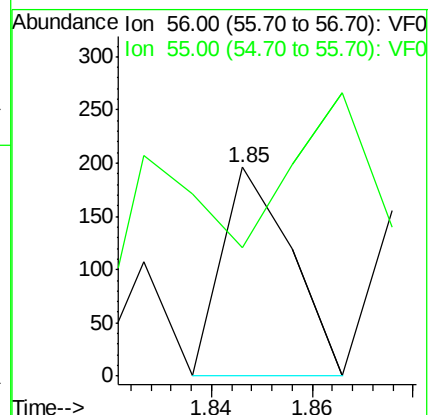
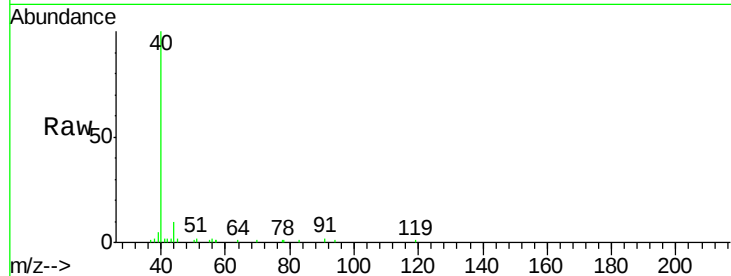
SI-2(1.5-2)

Tot Ion: 56 Resp: 186

Ion Ratio Lower Upper

56 100

55 61.7 51.3 76.9



#15

Acrylonitrile

Concen: 1.281 ug/l

RT: 2.95 min Scan# 235

Delta R.T. 0.00 min

Lab File: VF061968.D

Acq: 15 Mar 2019 18:37

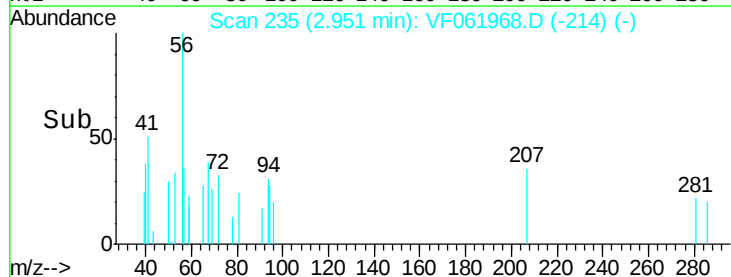
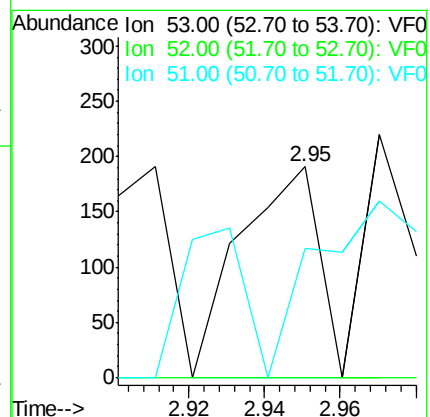
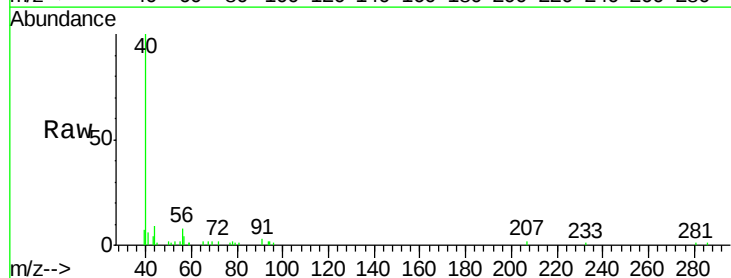
Tgt Ion: 53 Resp: 276

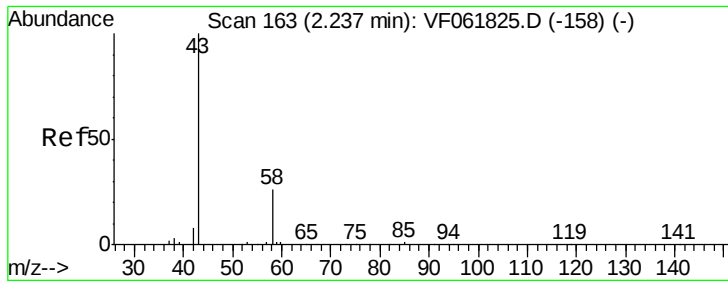
Ion Ratio Lower Upper

53 100

52 0.0 67.4 101.0#

51 61.3 30.7 46.1#





#16

Acetone

Concen: 18.501 ug/l

RT: 2.25 min Scan# 164

Delta R.T. 0.01 min

Lab File: VF061968.D

Acq: 15 Mar 2019 18:37

Instrument :

MSVOA_F

ClientSampleId :

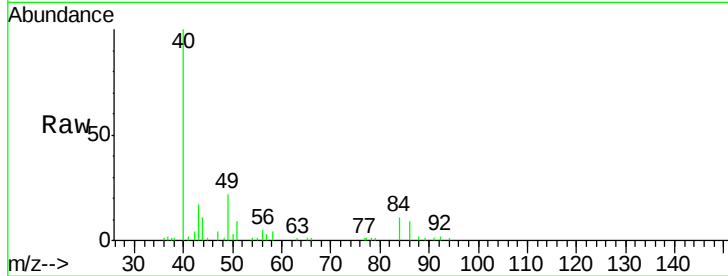
SI-2(1.5-2)

Tot Ion: 43 Resp: 4619

Ion Ratio Lower Upper

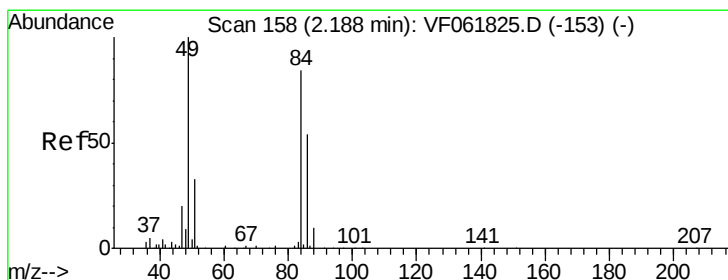
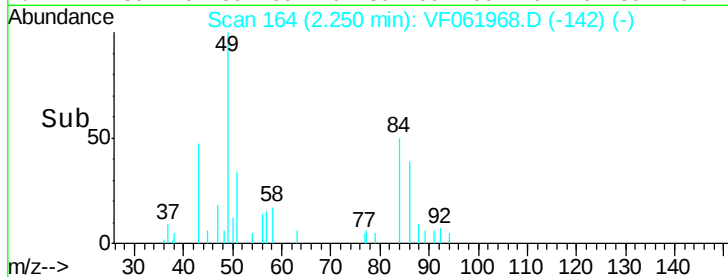
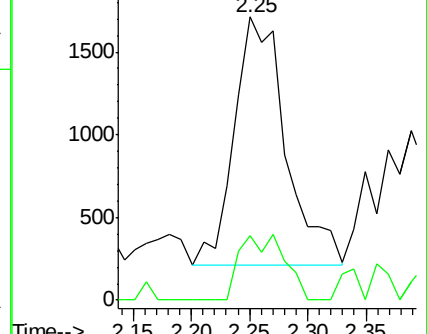
43 100

58 22.7 20.3 30.5



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#20

Methylene Chloride

Concen: Below Cal

RT: 2.19 min Scan# 158

Delta R.T. 0.00 min

Lab File: VF061968.D

Acq: 15 Mar 2019 18:37

Tgt Ion: 84 Resp: 1988

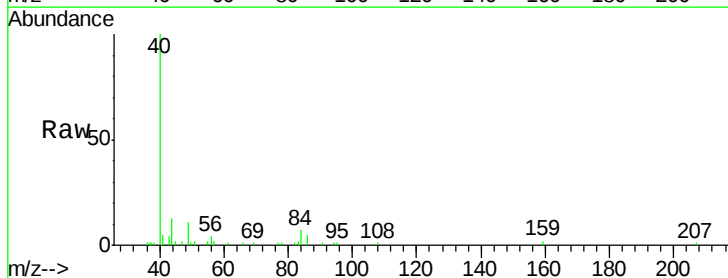
Ion Ratio Lower Upper

84 100

49 164.9 96.8 145.2#

51 32.5 31.8 47.6

86 67.4 51.6 77.4

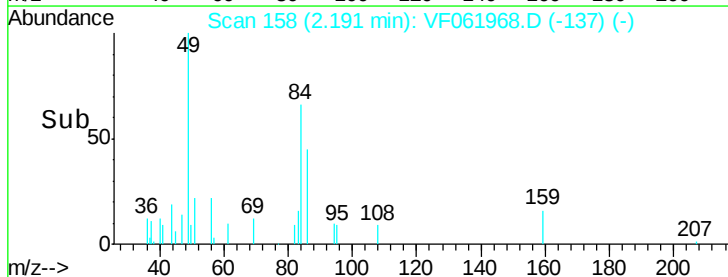
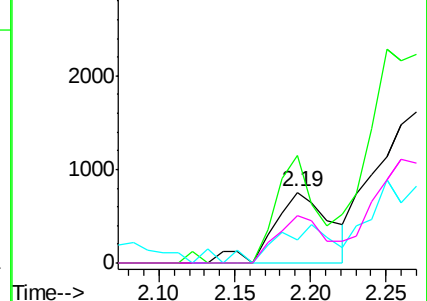


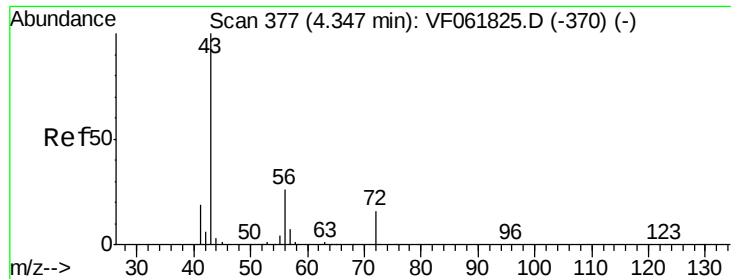
Abundance Ion 84.00 (83.70 to 84.70): VF0

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





#25

2-Butanone

Concen: 1.944 ug/l

RT: 4.34 min Scan# 376

Delta R.T. -0.01 min

Lab File: VF061968.D

Acq: 15 Mar 2019 18:37

Instrument :

MSVOA_F

ClientSampleId :

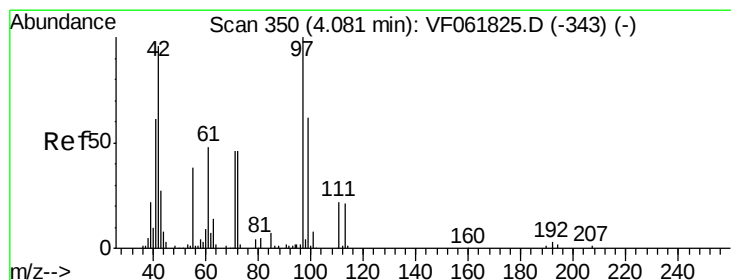
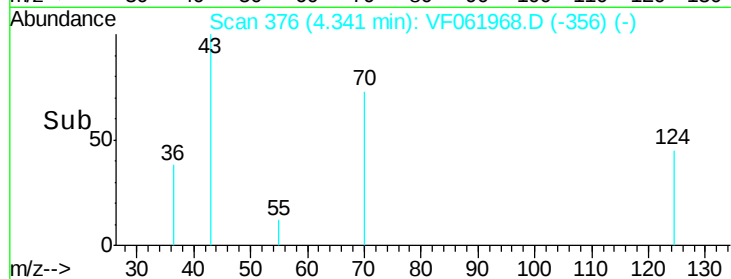
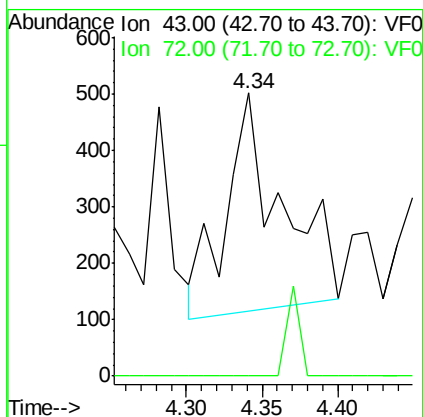
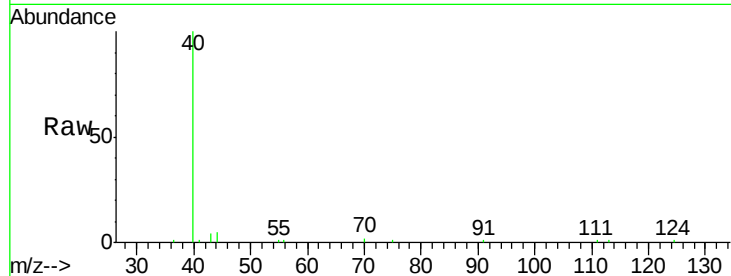
SI-2(1.5-2)

Tot Ion: 43 Resp: 987

Ion Ratio Lower Upper

43 100

72 0.0 16.2 24.4#



#29

Tetrahydrofuran

Concen: 3.192 ug/l

RT: 4.07 min Scan# 349

Delta R.T. -0.01 min

Lab File: VF061968.D

Acq: 15 Mar 2019 18:37

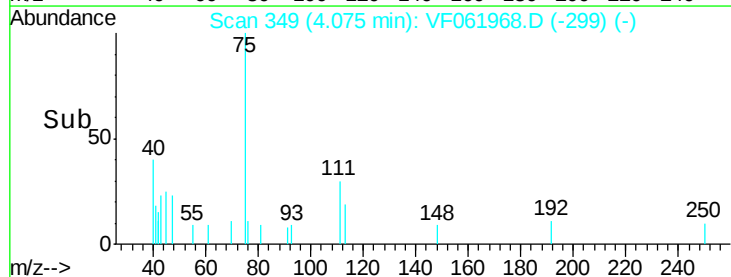
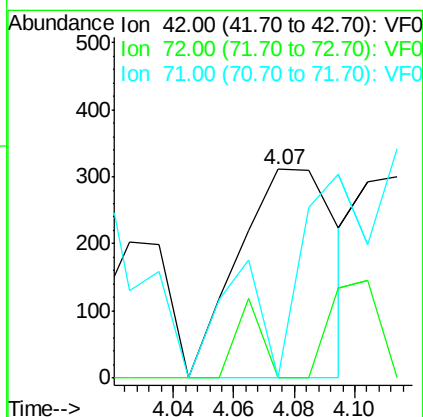
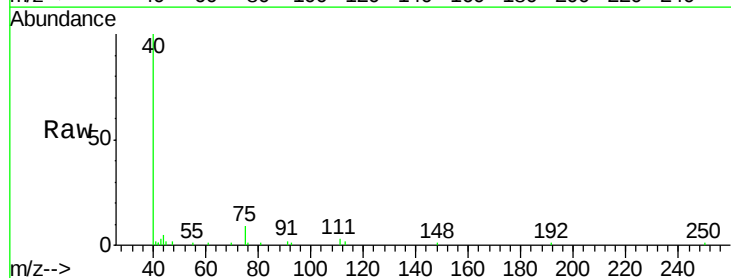
Tgt Ion: 42 Resp: 699

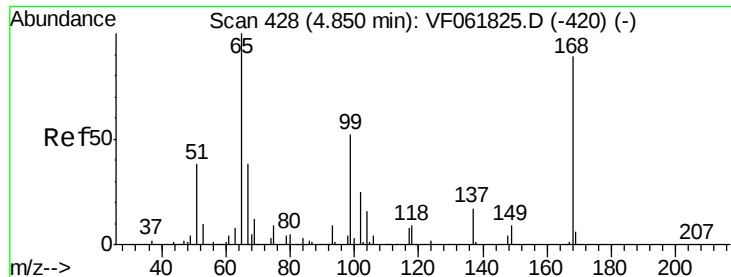
Ion Ratio Lower Upper

42 100

72 10.0 34.4 51.6#

71 0.0 34.6 52.0#





#33

1,2-Dichloroethane-d4

Concen: 52.737 ug/l

RT: 4.86 min Scan# 429

Delta R.T. 0.01 min

Lab File: VF061968.D

Acq: 15 Mar 2019 18:37

Instrument :

MSVOA_F

ClientSampleId :

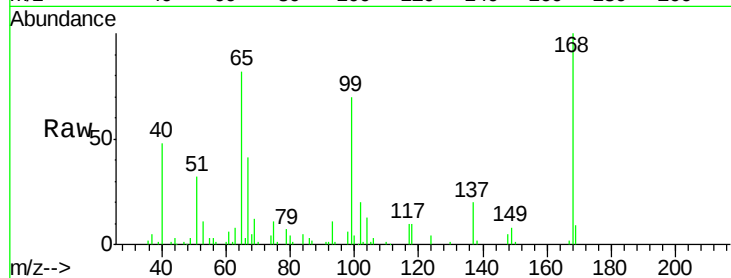
SI-2(1.5-2)

Tot Ion: 65 Resp: 62857

Ion Ratio Lower Upper

65 100

67 50.2 0.0 108.6



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

4.86

25000

20000

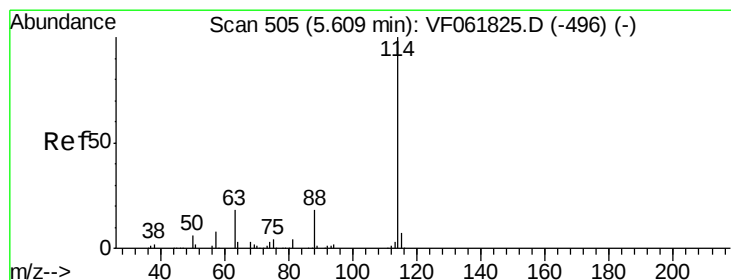
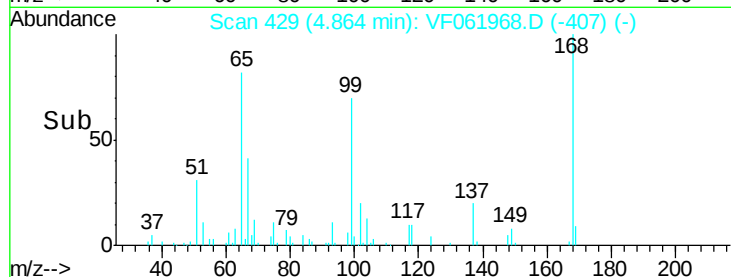
15000

10000

5000

0

Time--> 4.70 4.80 4.90 5.00



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.61 min Scan# 505

Delta R.T. 0.00 min

Lab File: VF061968.D

Acq: 15 Mar 2019 18:37

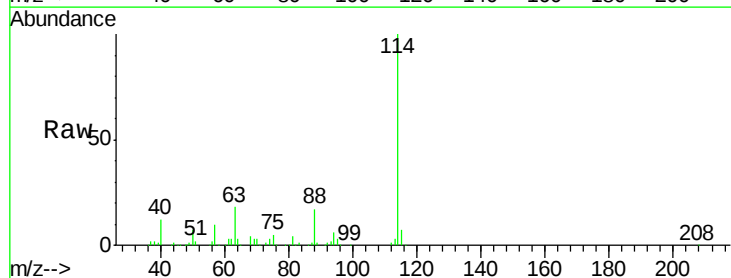
Tgt Ion: 114 Resp: 255428

Ion Ratio Lower Upper

114 100

63 18.4 0.0 35.6

88 16.7 0.0 35.6



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

5.61

120000

100000

80000

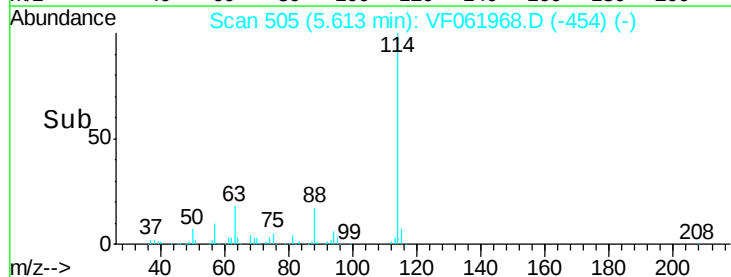
60000

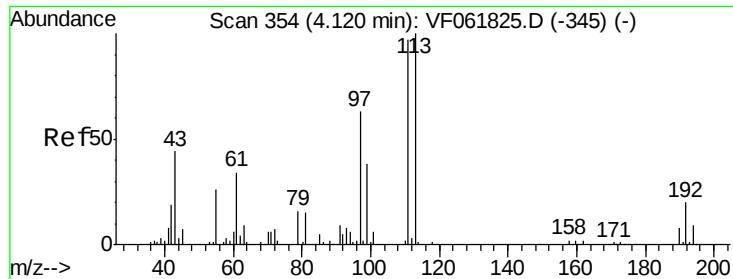
40000

20000

0

Time--> 5.50 5.60 5.70 5.80

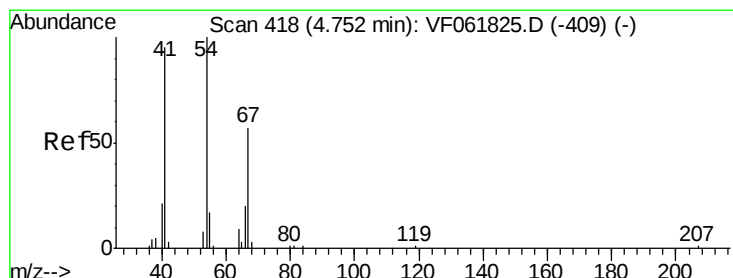
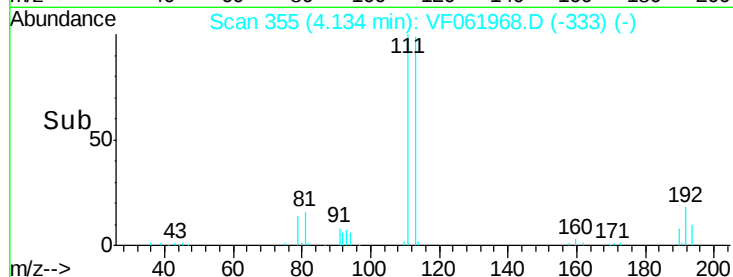
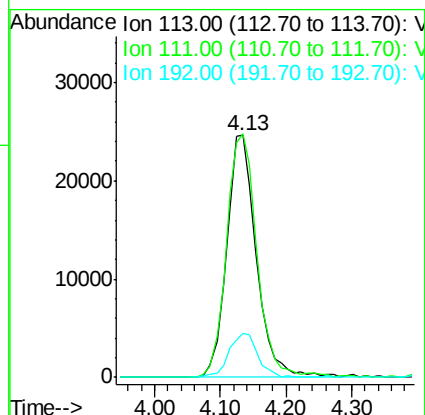
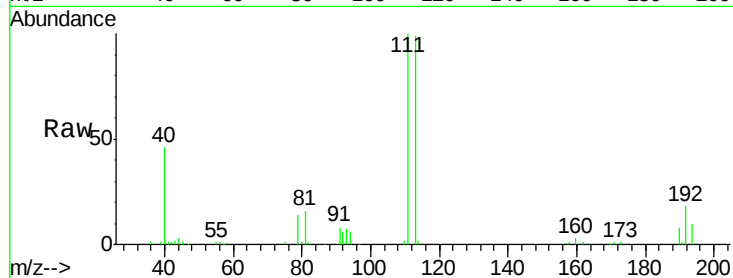




#35
Dibromofluoromethane
Concen: 43.605 ug/l
RT: 4.13 min Scan# 355
Delta R.T. 0.01 min
Lab File: VF061968.D
Acq: 15 Mar 2019 18:37

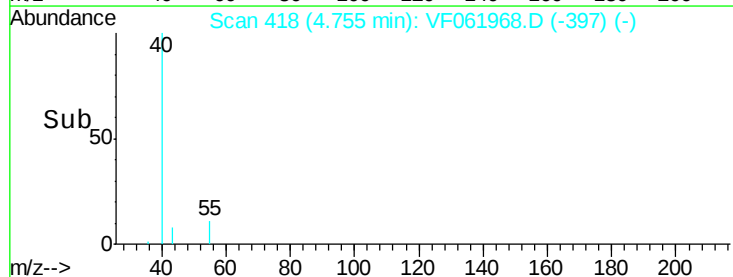
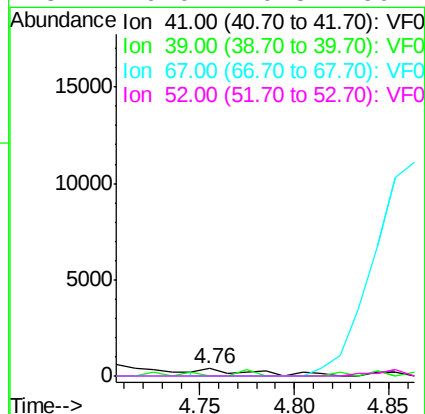
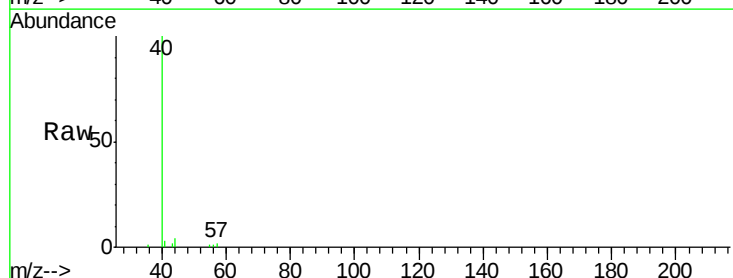
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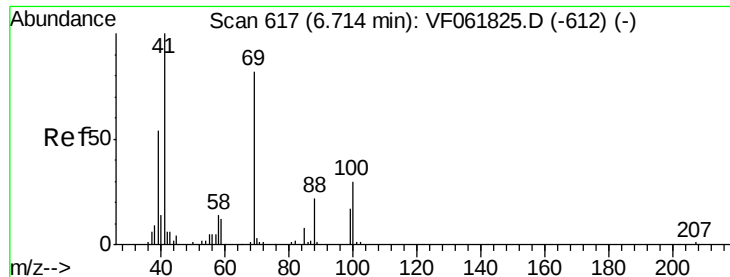
Tot Ion:113 Resp: 77729
Ion Ratio Lower Upper
113 100
111 100.6 77.6 116.4
192 17.9 15.9 23.9



#41
Methacrylonitrile
Concen: 1.422 ug/l
RT: 4.76 min Scan# 418
Delta R.T. 0.00 min
Lab File: VF061968.D
Acq: 15 Mar 2019 18:37

Tgt Ion: 41 Resp: 789
Ion Ratio Lower Upper
41 100
39 0.0 43.0 64.6#
67 0.0 47.8 71.8#
52 0.0 40.5 60.7#





#49

1,4-Dioxane

Concen: 8.308 ug/l

RT: 6.97 min Scan# 643

Delta R.T. 0.26 min

Lab File: VF061968.D

Acq: 15 Mar 2019 18:37

Instrument :

MSVOA_F

ClientSampleId :

SI-2(1.5-2)

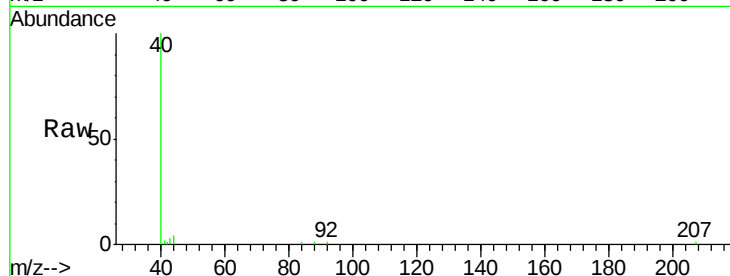
Tot Ion: 88 Resp: 60

Ion Ratio Lower Upper

88 100

43 328.7 28.4 42.6#

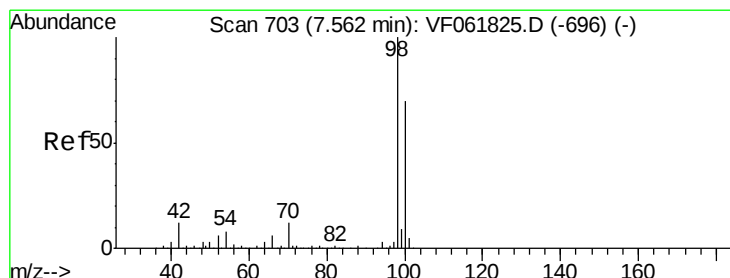
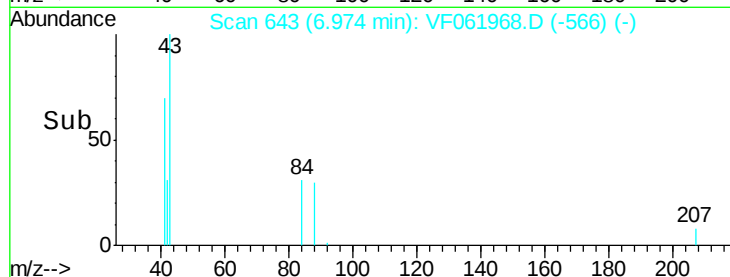
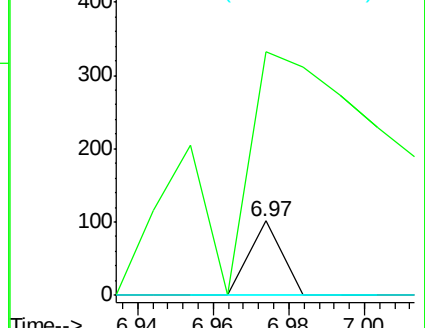
58 0.0 50.7 76.1#



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: 43.186 ug/l

RT: 7.57 min Scan# 703

Delta R.T. 0.00 min

Lab File: VF061968.D

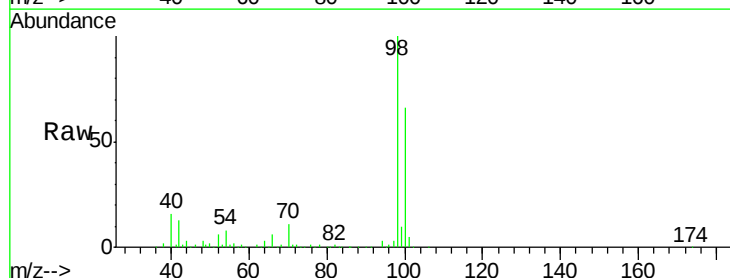
Acq: 15 Mar 2019 18:37

Tgt Ion: 98 Resp: 228813

Ion Ratio Lower Upper

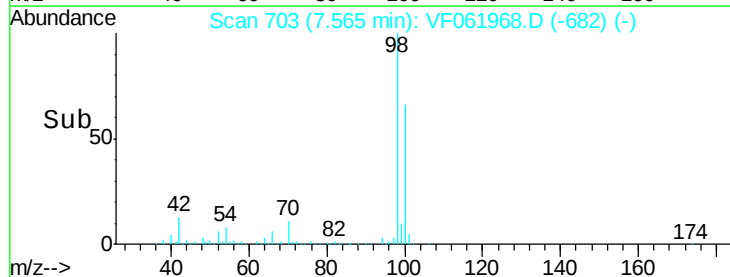
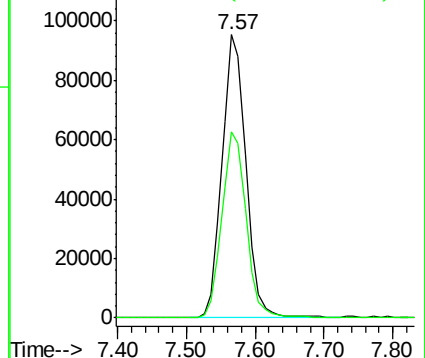
98 100

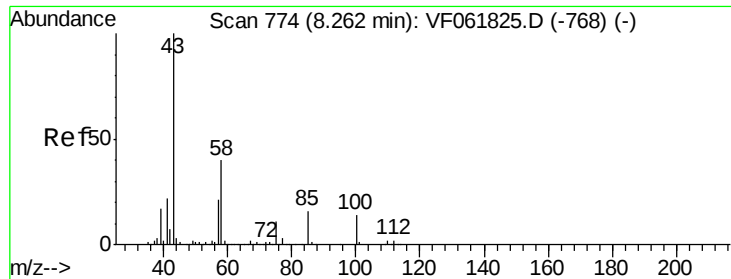
100 65.7 56.0 84.0



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: 2.589 ug/l

RT: 8.29 min Scan# 776

Delta R.T. 0.02 min

Lab File: VF061968.D

Acq: 15 Mar 2019 18:37

Instrument :

MSVOA_F

ClientSampleId :

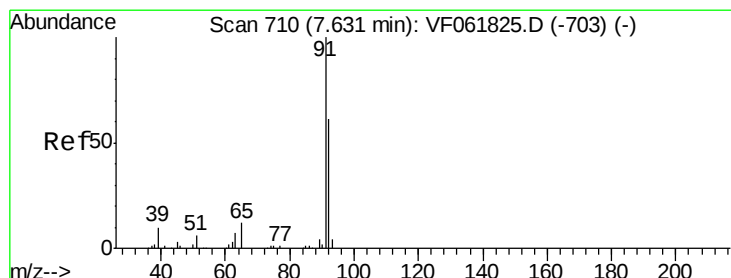
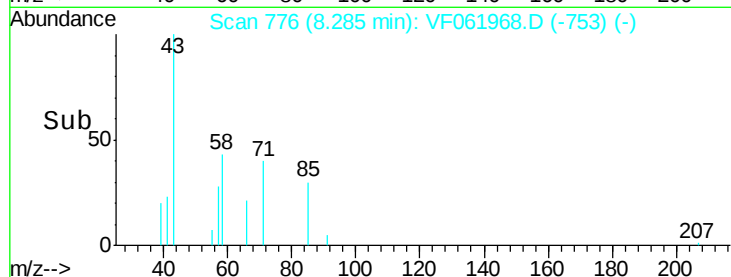
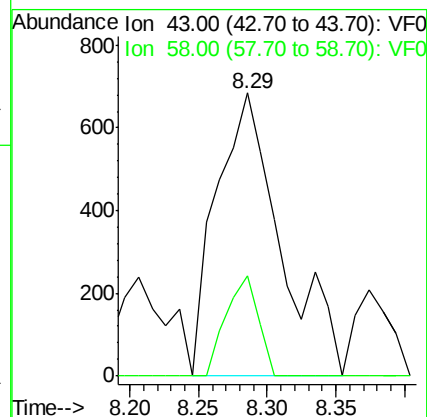
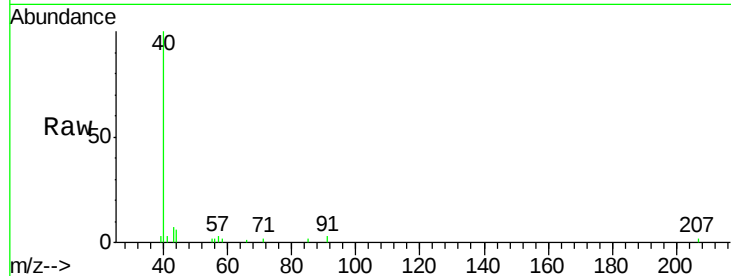
SI-2(1.5-2)

Tot Ion: 43 Resp: 2234

Ion Ratio Lower Upper

43 100

58 35.4 31.8 47.8



#52

Toluene

Concen: 12.023 ug/l

RT: 7.63 min Scan# 710

Delta R.T. 0.00 min

Lab File: VF061968.D

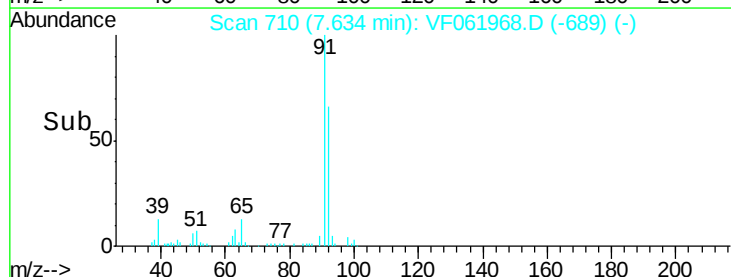
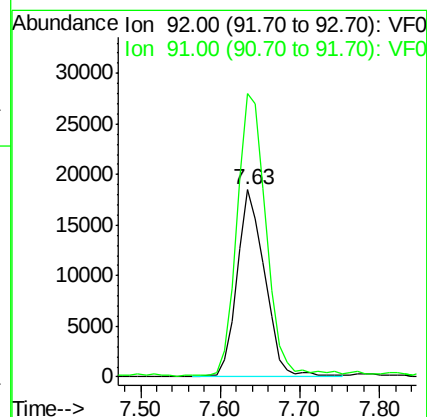
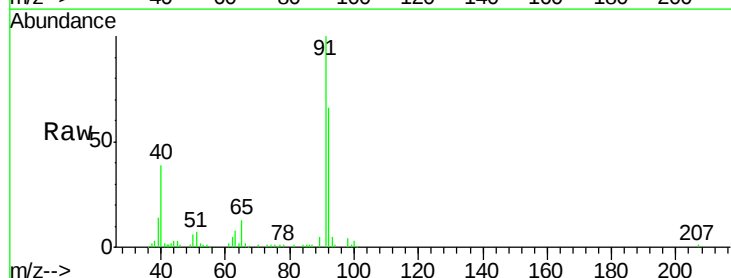
Acq: 15 Mar 2019 18:37

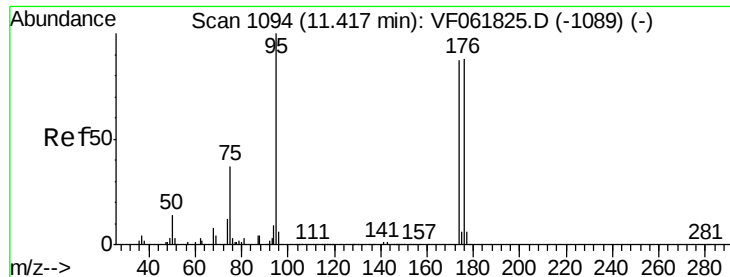
Tgt Ion: 92 Resp: 44857

Ion Ratio Lower Upper

92 100

91 151.2 132.0 198.0





#62

4-Bromofluorobenzene

Concen: 45.754 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.00 min

Lab File: VF061968.D

Acq: 15 Mar 2019 18:37

Instrument :

MSVOA_F

ClientSampleId :

SI-2(1.5-2)

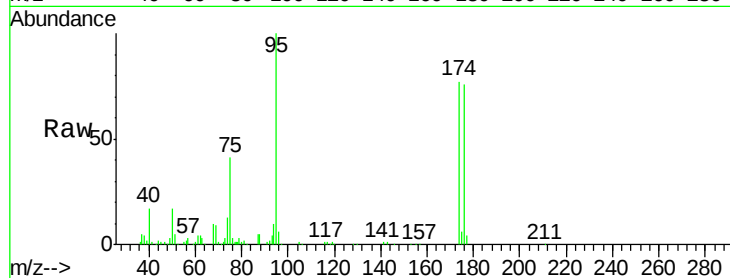
Tot Ion: 95 Resp: 94960

Ion Ratio Lower Upper

95 100

174 76.9 0.0 174.0

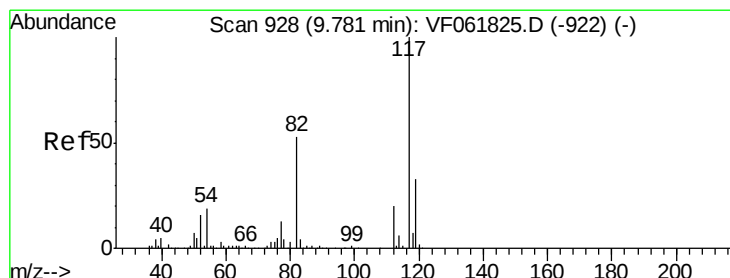
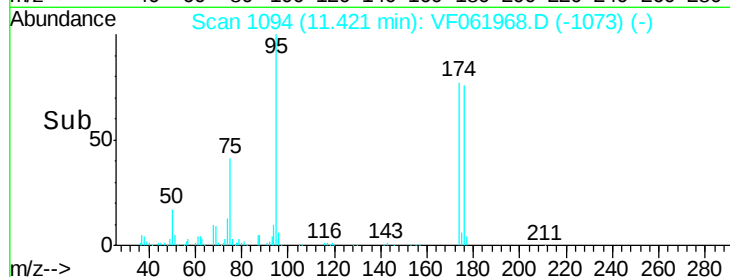
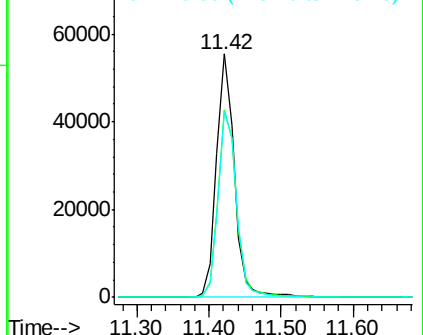
176 76.2 0.0 175.2



Abundance Ion 95.00 (94.70 to 95.70): VF061825.D (-1089) (-)

Ion 174.00 (173.70 to 174.70): VF061825.D (-1089) (-)

Ion 176.00 (175.70 to 176.70): VF061825.D (-1089) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.79 min Scan# 929

Delta R.T. 0.01 min

Lab File: VF061968.D

Acq: 15 Mar 2019 18:37

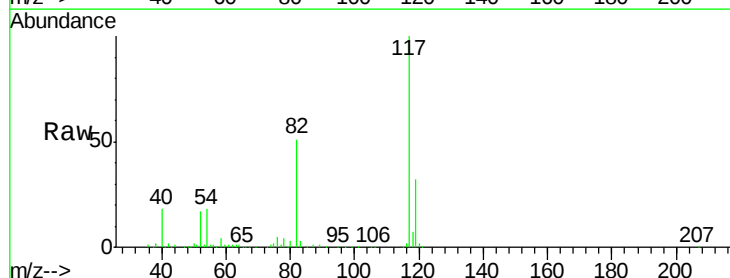
Tgt Ion: 117 Resp: 215280

Ion Ratio Lower Upper

117 100

82 51.2 42.6 63.8

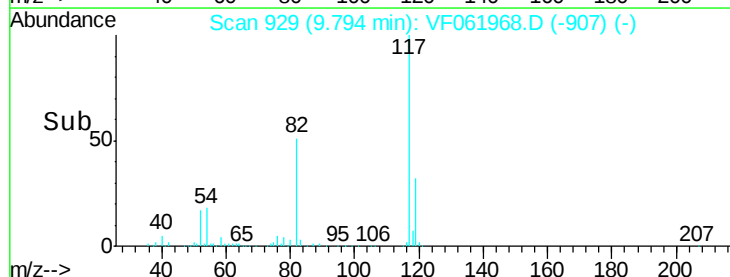
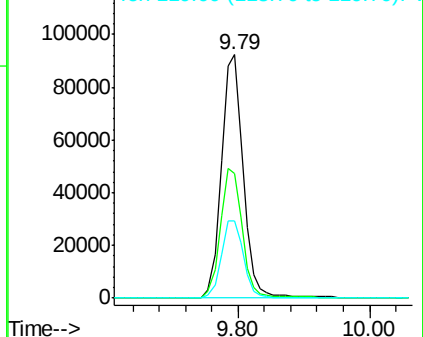
119 31.7 26.0 39.0

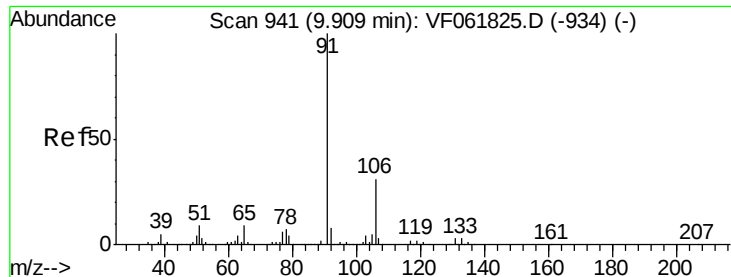


Abundance Ion 117.00 (116.70 to 117.70): VF061825.D (-922) (-)

Ion 82.00 (81.70 to 82.70): VF061825.D (-922) (-)

Ion 119.00 (118.70 to 119.70): VF061825.D (-922) (-)





#67

Ethyl Benzene

Concen: 5.683 ug/l

RT: 9.91 min Scan# 941

Delta R.T. 0.00 min

Lab File: VF061968.D

Acq: 15 Mar 2019 18:37

Instrument :

MSVOA_F

ClientSampleId :

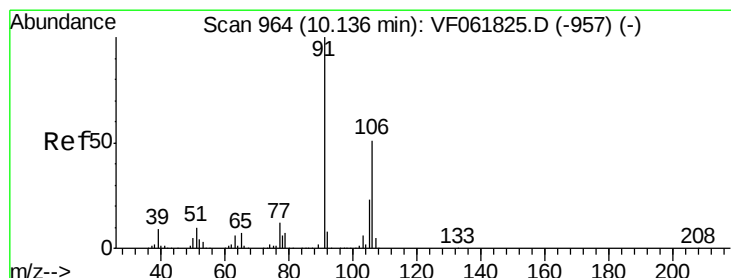
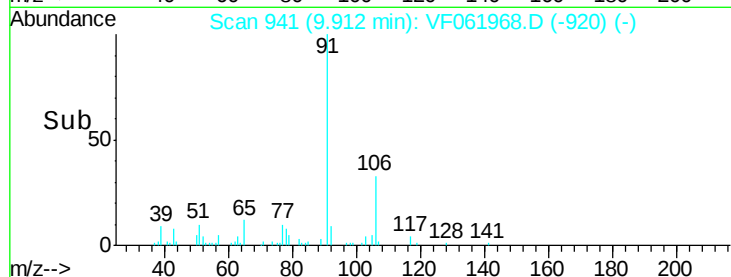
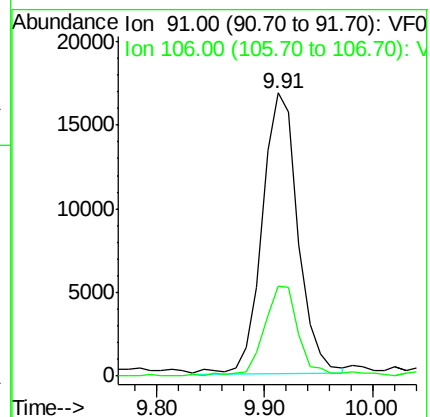
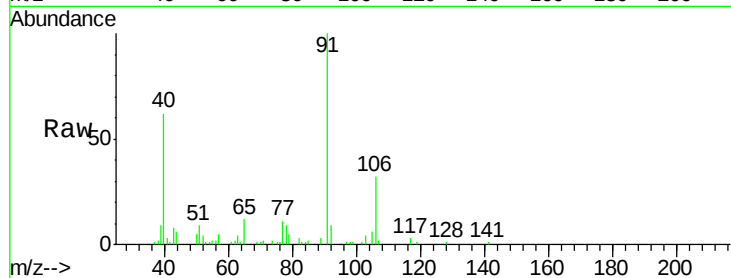
SI-2(1.5-2)

Tot Ion: 91 Resp: 38958

Ion Ratio Lower Upper

91 100

106 32.1 25.0 37.4



#68

m/p-Xylenes

Concen: 18.478 ug/l

RT: 10.15 min Scan# 965

Delta R.T. 0.01 min

Lab File: VF061968.D

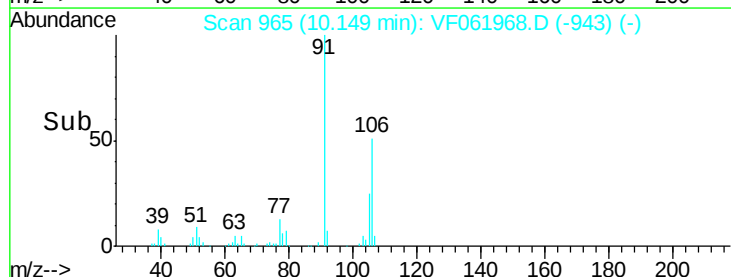
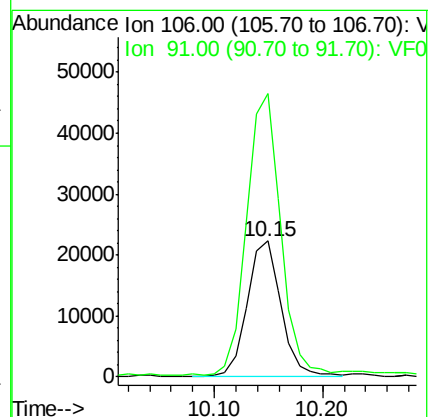
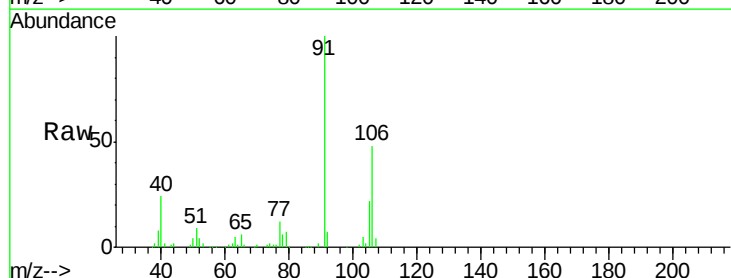
Acq: 15 Mar 2019 18:37

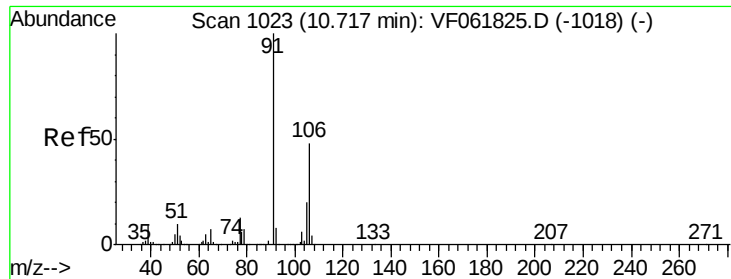
Tgt Ion: 106 Resp: 48527

Ion Ratio Lower Upper

106 100

91 208.7 157.5 236.3

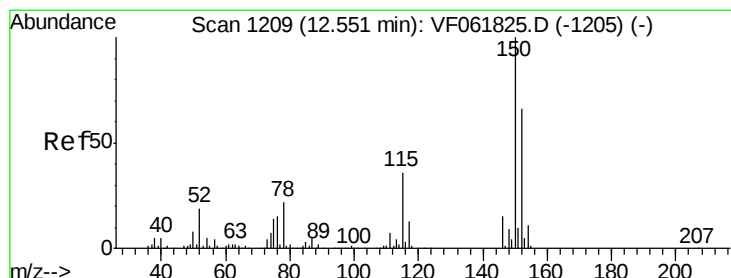
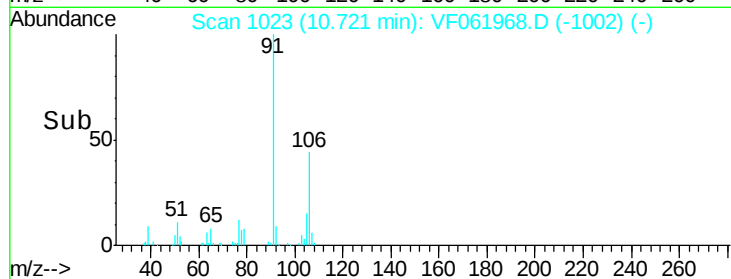
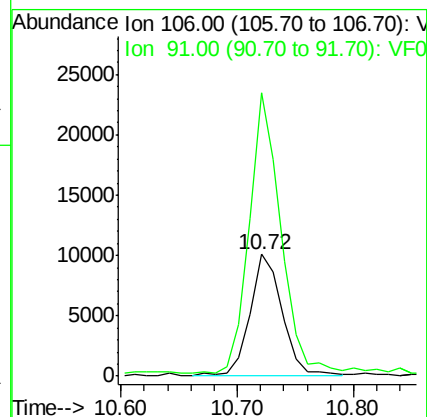
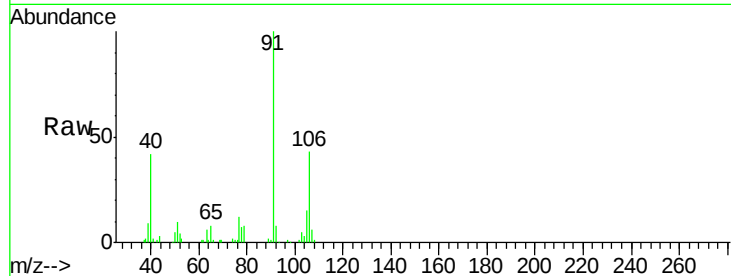




#69
o-Xylene
Concen: 6.917 ug/l
RT: 10.72 min Scan# 1023
Delta R.T. 0.00 min
Lab File: VF061968.D
Acq: 15 Mar 2019 18:37

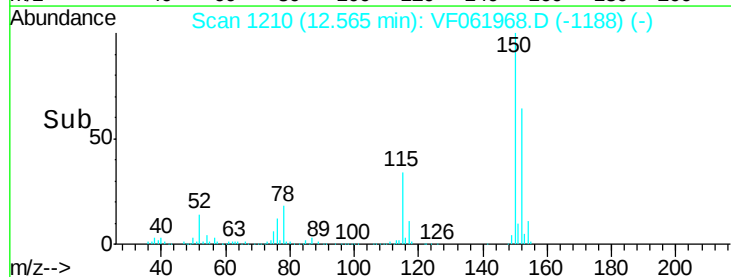
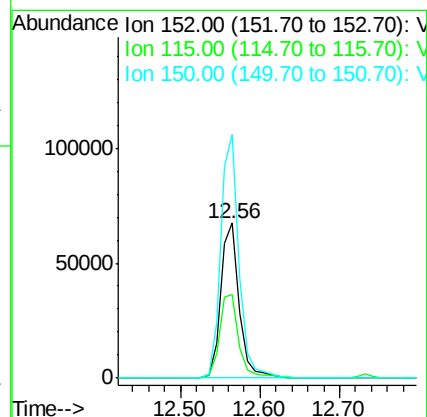
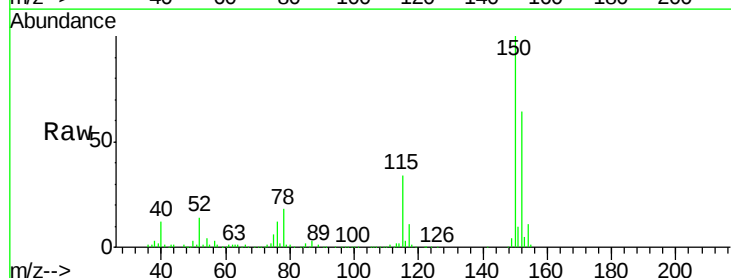
Instrument :
MSVOA_F
ClientSampleId :
SI-2(1.5-2)

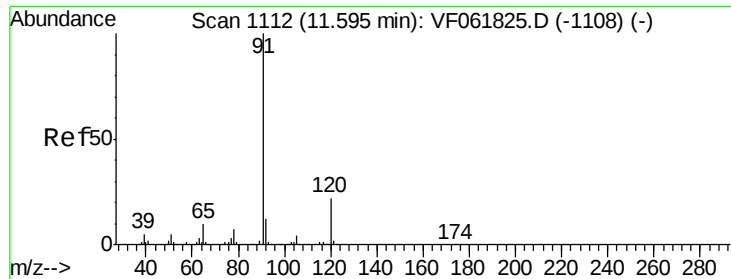
Tot Ion:106 Resp: 19560
Ion Ratio Lower Upper
106 100
91 232.7 103.5 310.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.56 min Scan# 1210
Delta R.T. 0.01 min
Lab File: VF061968.D
Acq: 15 Mar 2019 18:37

Tgt Ion:152 Resp: 110596
Ion Ratio Lower Upper
152 100
115 54.0 27.7 83.1
150 156.9 0.0 304.2





#78

n-propylbenzene

Concen: 1.740 ug/l

RT: 11.61 min Scan# 1113

Delta R.T. 0.01 min

Lab File: VF061968.D

Acq: 15 Mar 2019 18:37

Instrument :

MSVOA_F

ClientSampleId :

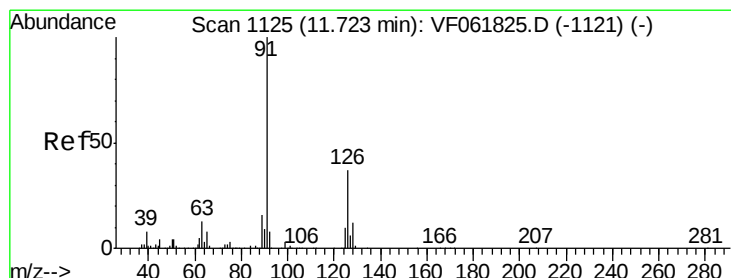
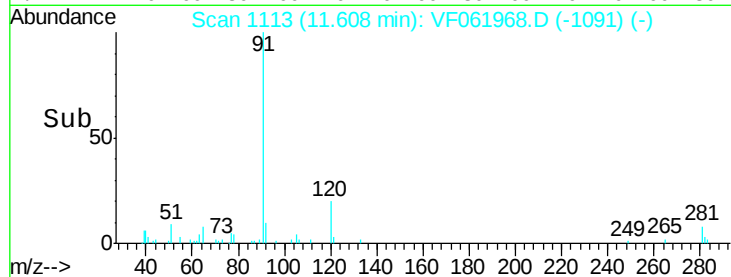
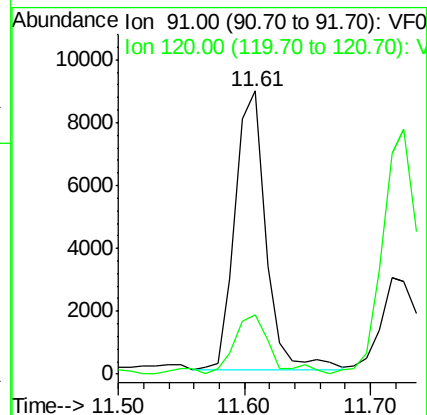
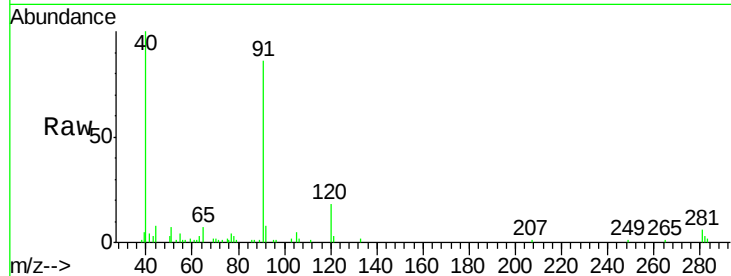
SI-2(1.5-2)

Tot Ion: 91 Resp: 14957

Ion Ratio Lower Upper

91 100

120 21.1 11.1 33.1



#79

2-Chlorotoluene

Concen: 1.194 ug/l

RT: 11.72 min Scan# 1124

Delta R.T. -0.01 min

Lab File: VF061968.D

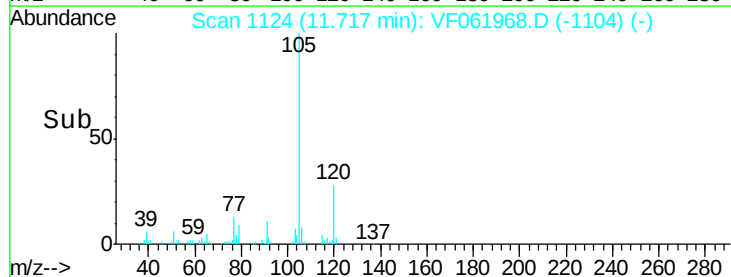
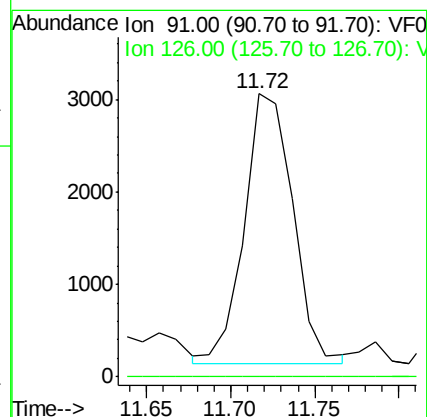
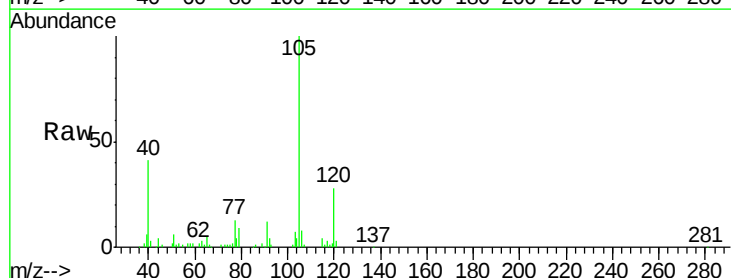
Acq: 15 Mar 2019 18:37

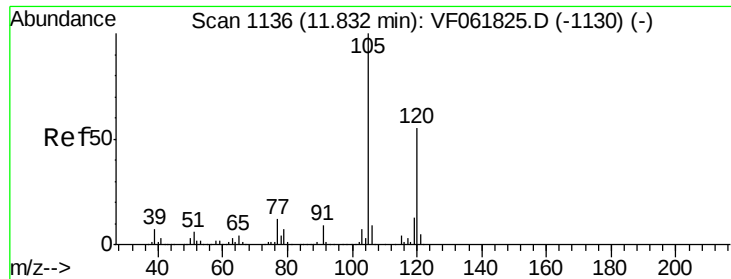
Tgt Ion: 91 Resp: 5869

Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.4#

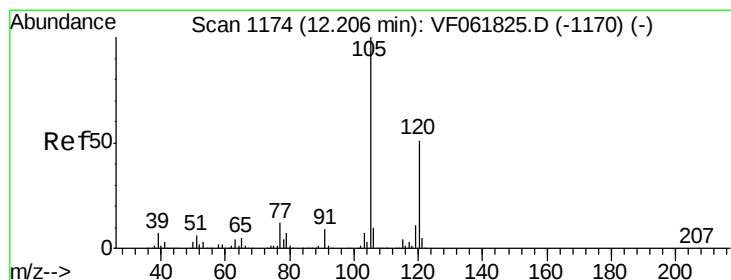
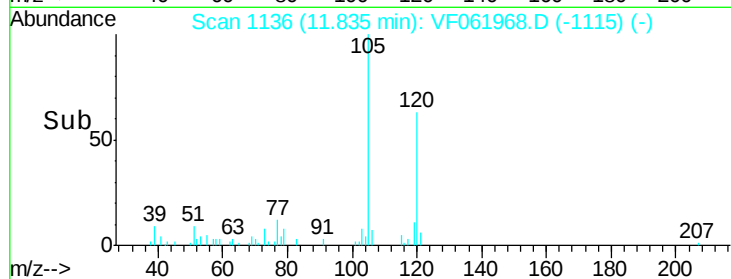
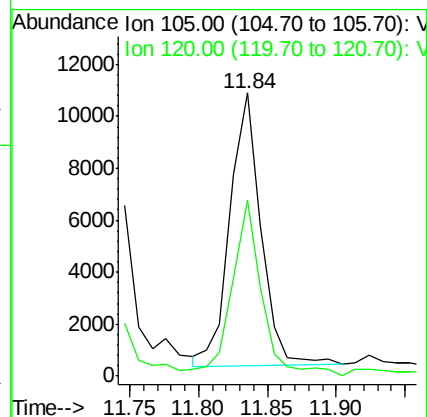
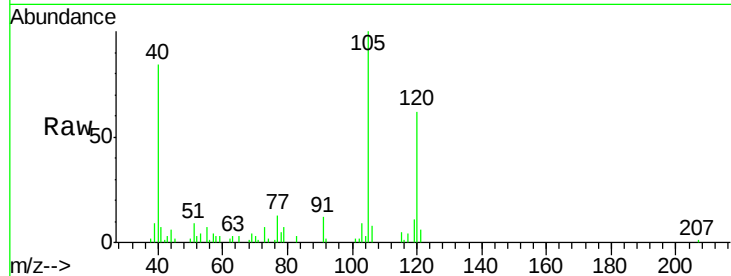




#80
 1,3,5-Trimethylbenzene
 Concen: 2.692 ug/l
 RT: 11.84 min Scan# 1136
 Delta R.T. 0.00 min
 Lab File: VF061968.D
 Acq: 15 Mar 2019 18:37

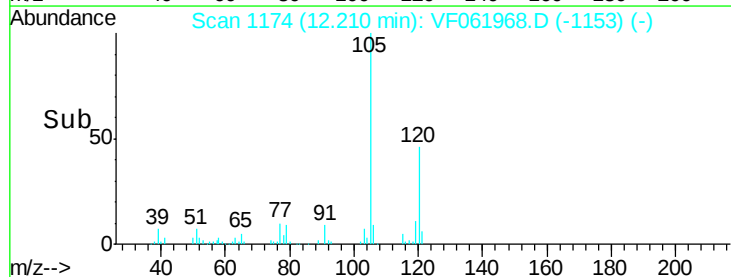
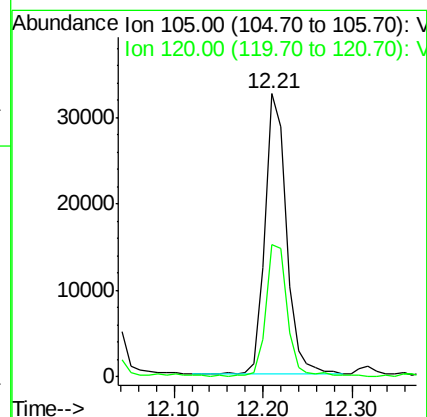
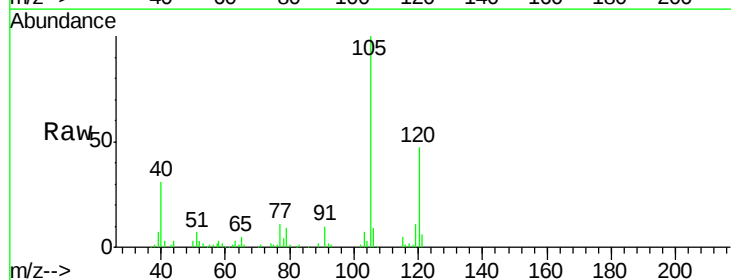
Instrument :
 MSVOA_F
 ClientSampleId :
 SI-2(1.5-2)

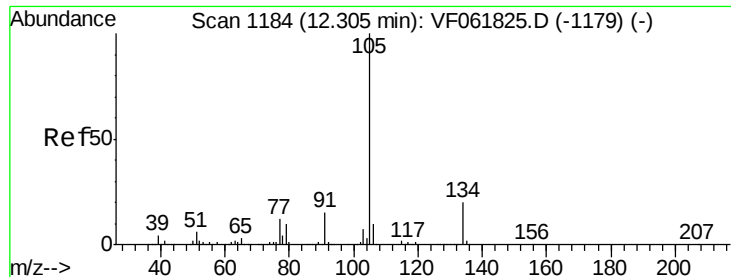
Tot Ion:105 Resp: 16455
 Ion Ratio Lower Upper
 105 100
 120 61.9 27.4 82.2



#84
 1,2,4-Trimethylbenzene
 Concen: 8.981 ug/l
 RT: 12.21 min Scan# 1174
 Delta R.T. 0.00 min
 Lab File: VF061968.D
 Acq: 15 Mar 2019 18:37

Tgt Ion:105 Resp: 53820
 Ion Ratio Lower Upper
 105 100
 120 46.6 25.8 77.4





#85

sec-Butylbenzene

Concen: 6.371 ug/l

RT: 12.21 min Scan# 1174

Delta R.T. -0.10 min

Lab File: VF061968.D

Acq: 15 Mar 2019 18:37

Instrument :

MSVOA_F

ClientSampleId :

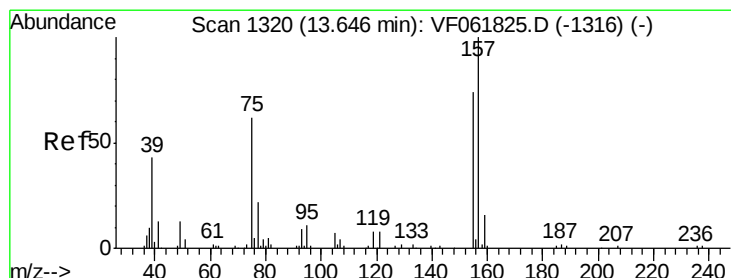
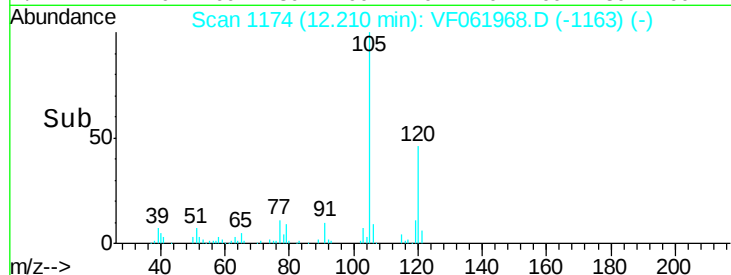
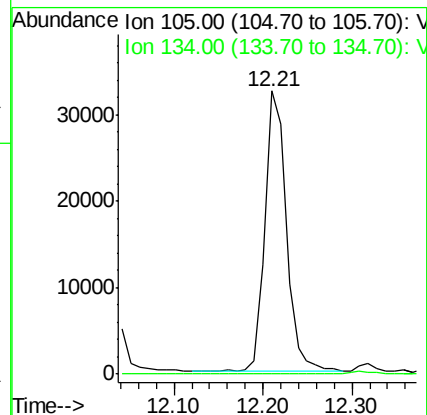
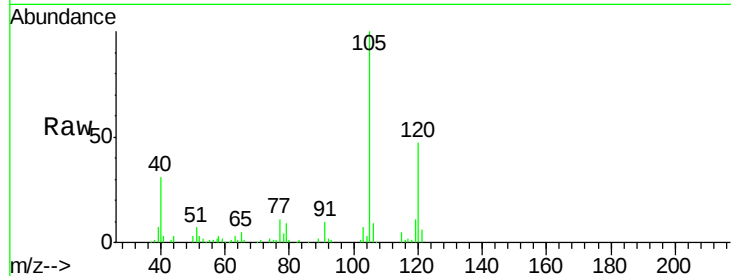
SI-2(1.5-2)

Tot Ion:105 Resp: 53820

Ion Ratio Lower Upper

105 100

134 0.0 9.8 29.5#



#92

1,2-Dibromo-3-Chloropropane

Concen: 4.041 ug/l

RT: 13.60 min Scan# 1315

Delta R.T. -0.04 min

Lab File: VF061968.D

Acq: 15 Mar 2019 18:37

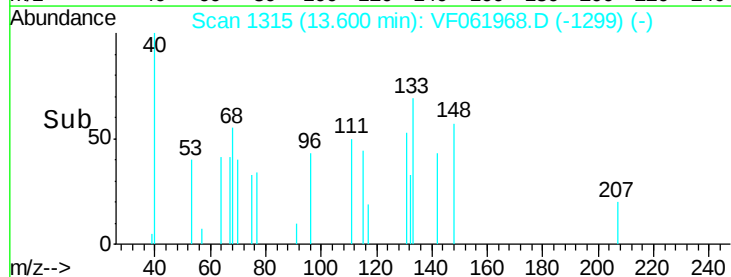
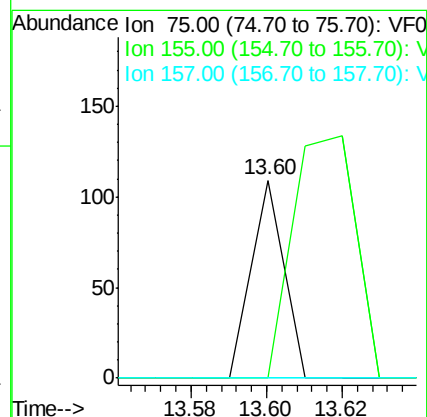
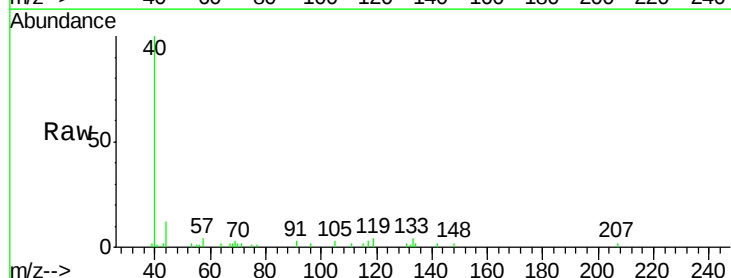
Tgt Ion: 75 Resp: 65

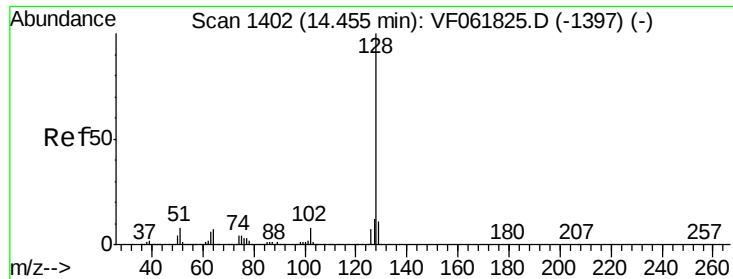
Ion Ratio Lower Upper

75 100

155 0.0 59.8 179.4#

157 0.0 81.2 243.4#





#95

Naphthalene

Concen: 13.541 ug/l

RT: 14.47 min Scan# 1403

Delta R.T. 0.01 min

Lab File: VF061968.D

Acq: 15 Mar 2019 18:37

Instrument :

MSVOA_F

ClientSampleId :

SI-2(1.5-2)

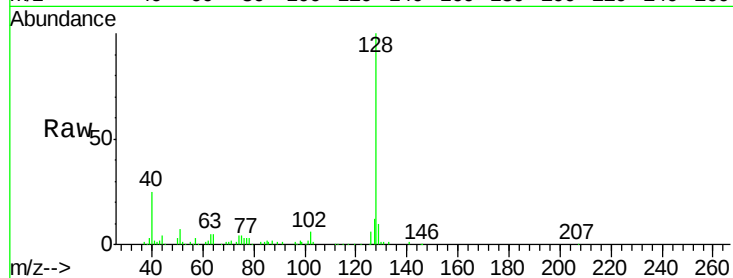
Tot Ion:128 Resp: 55739

Ion Ratio Lower Upper

128 100

127 11.6 9.3 13.9

129 9.8 8.8 13.2



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

