

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF122018\
 Data File : VF061110.D
 Acq On : 20 Dec 2018 16:14
 Operator : VA/AP
 Sample : J6377-11
 Misc : 3.16g/5mL/MSVOA-F/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 21 06:42:58 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 00:56:59 2018
 Response via : Initial Calibration

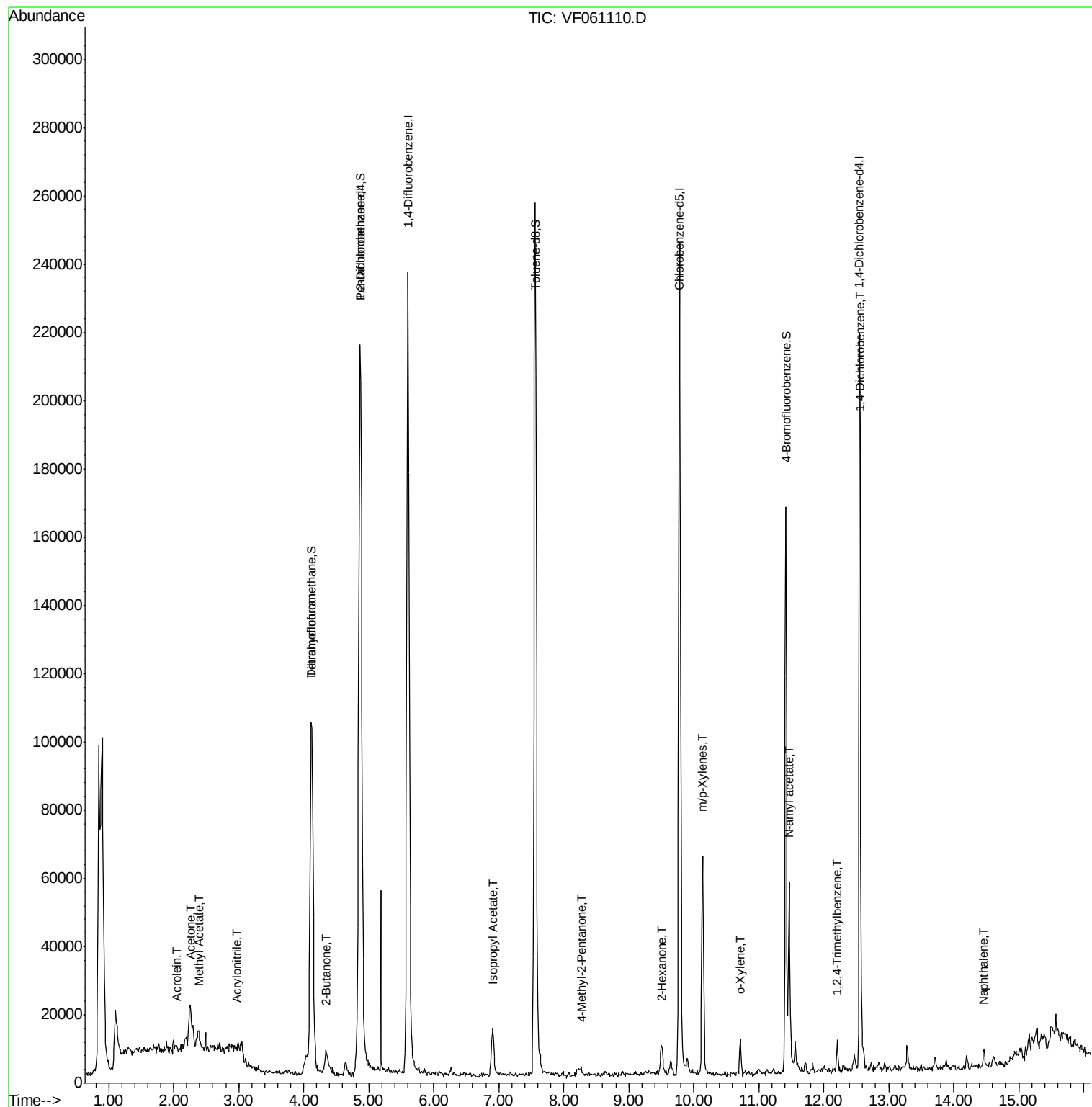
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	159830	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.61	114	274289	50.00	ug/l	0.01
63) Chlorobenzene-d5	9.78	117	171859	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	52482	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.86	65	92107	44.81	ug/l	0.01
Spiked Amount	50.000		Recovery	=	89.62%	
35) Dibromofluoromethane	4.12	113	102631	46.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.42%	
50) Toluene-d8	7.56	98	214890	34.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	69.02%	
62) 4-Bromofluorobenzene	11.42	95	64801	22.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	45.14%	
Target Compounds						
					Qvalue	
13) Acrolein	2.05	56	736	12.278	ug/l	97
15) Acrylonitrile	2.95	53	347	1.809	ug/l #	1
16) Acetone	2.25	43	20835	50.699	ug/l #	87
18) Methyl Acetate	2.38	43	3226	3.794	ug/l #	66
20) Methylene Chloride	2.26	84	2028	Below Cal		95
25) 2-Butanone	4.35	43	13901	20.857	ug/l	92
29) Tetrahydrofuran	4.11	42	868	3.200	ug/l #	37
43) Isopropyl Acetate	6.90	43	24609	15.394	ug/l #	45
51) 4-Methyl-2-Pentanone	8.27	43	1679	1.531	ug/l #	84
59) 2-Hexanone	9.50	43	8616	10.867	ug/l	96
68) m/p-Xylenes	10.14	106	23673	10.400	ug/l	88
69) o-Xylene	10.72	106	2830	1.121	ug/l	71
70) Styrene	10.80	104	73	Below Cal	#	30
74) N-amyl acetate	11.47	43	39453	39.292	ug/l #	49
84) 1,2,4-Trimethylbenzene	12.21	105	4785	1.288	ug/l	86
87) 1,3-Dichlorobenzene	12.48	146	1265	Below Cal		71
88) 1,4-Dichlorobenzene	12.57	146	7950	4.447	ug/l	92
95) Naphthalene	14.47	128	2298	1.020	ug/l #	94

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 20 00:56:59 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. 0.00 min

Lab File: VF061110.D

Acq: 20 Dec 2018 16:14

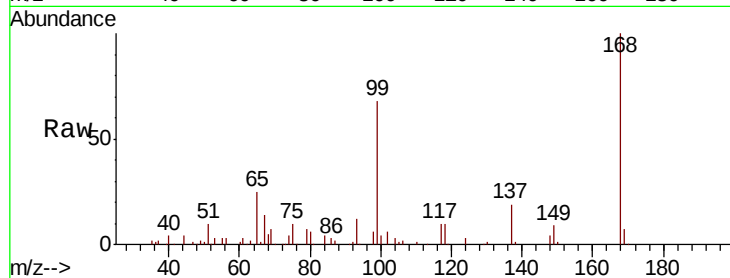
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 159830

Ion Ratio Lower Upper

168 100

99 67.6 54.4 81.6



Abundance Ion 168.00 (167.70 to 168.70): VF061110.D (-410) (-)

Ion 99.00 (98.70 to 99.70): VF061110.D (-410) (-)

4.88

60000

50000

40000

30000

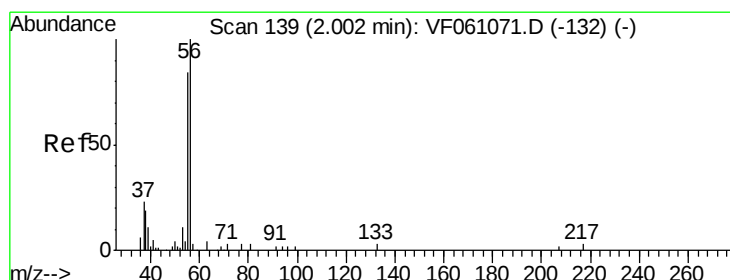
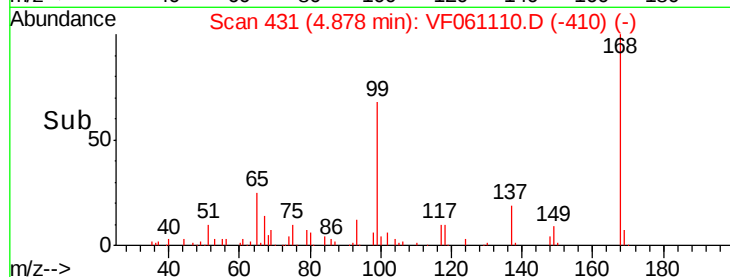
20000

10000

0

Time-->

4.70 4.80 4.90 5.00



#13

Acrolein

Concen: 12.278 ug/l

RT: 2.05 min Scan# 144

Delta R.T. 0.04 min

Lab File: VF061110.D

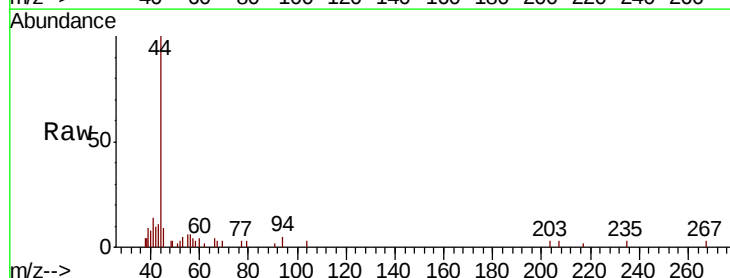
Acq: 20 Dec 2018 16:14

Tgt Ion: 56 Resp: 736

Ion Ratio Lower Upper

56 100

55 90.7 70.2 105.2



Abundance Ion 56.00 (55.70 to 56.70): VF061110.D (-119) (-)

Ion 55.00 (54.70 to 55.70): VF061110.D (-119) (-)

2.05

400

300

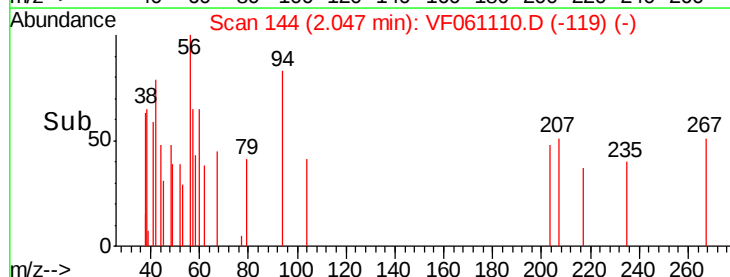
200

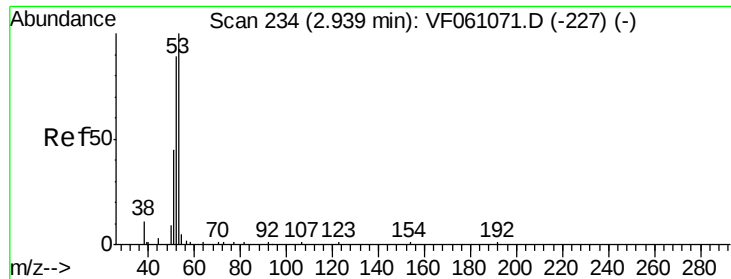
100

0

Time-->

2.00 2.05 2.10





#15

Acrylonitrile

Concen: 1.809 ug/l

RT: 2.95 min Scan# 236

Delta R.T. 0.01 min

Lab File: VF061110.D

Acq: 20 Dec 2018 16:14

Instrument :
MSVOA_F
ClientSampled :

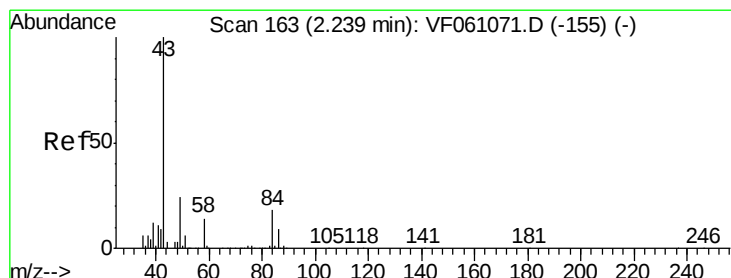
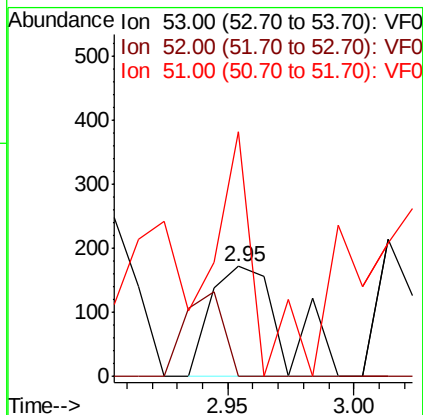
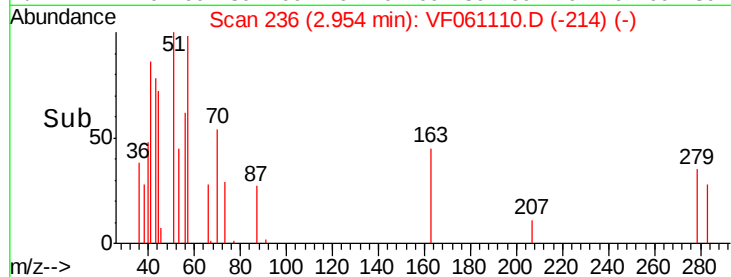
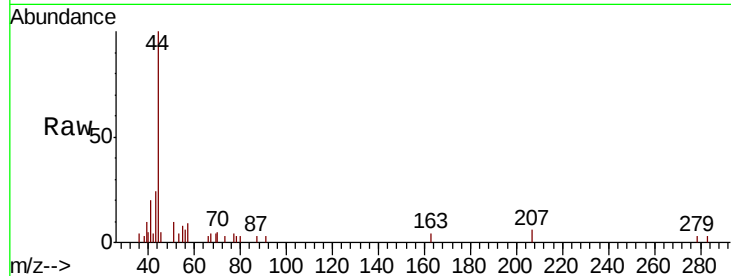
Tot Ion: 53 Resp: 347

Ion Ratio Lower Upper

53 100

52 0.0 71.3 106.9#

51 222.8 36.8 55.2#



#16

Acetone

Concen: 50.699 ug/l

RT: 2.25 min Scan# 165

Delta R.T. 0.01 min

Lab File: VF061110.D

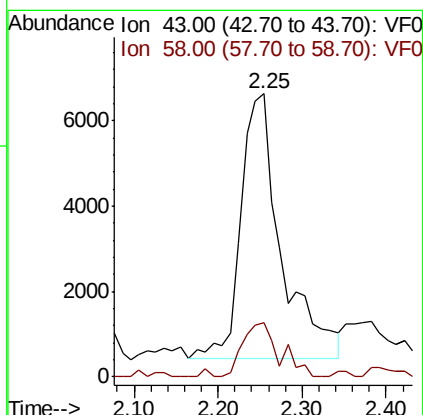
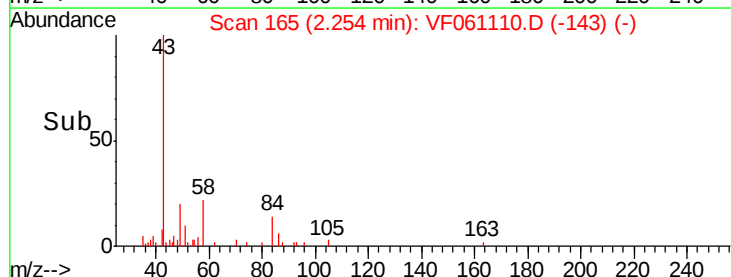
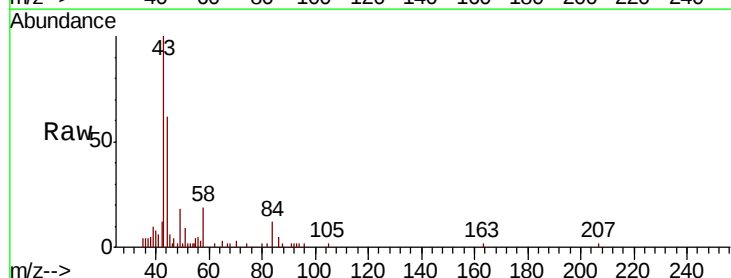
Acq: 20 Dec 2018 16:14

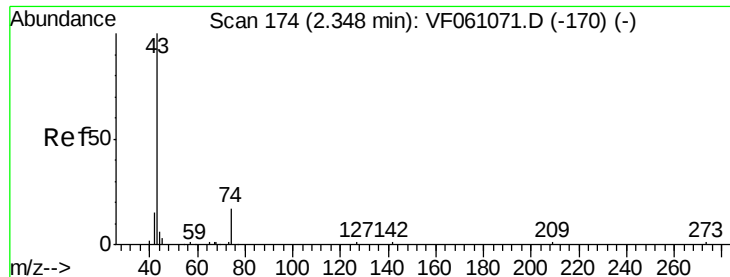
Tgt Ion: 43 Resp: 20835

Ion Ratio Lower Upper

43 100

58 19.2 11.1 16.7#

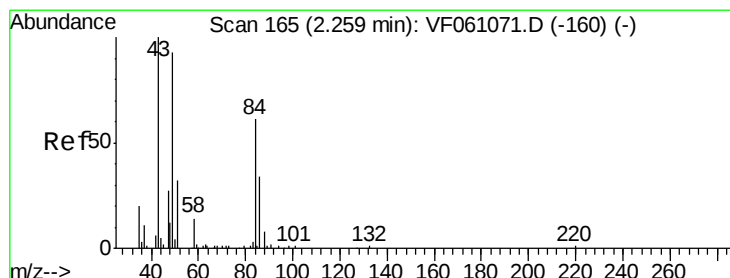
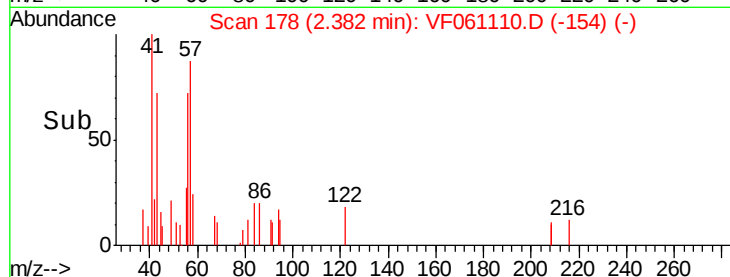
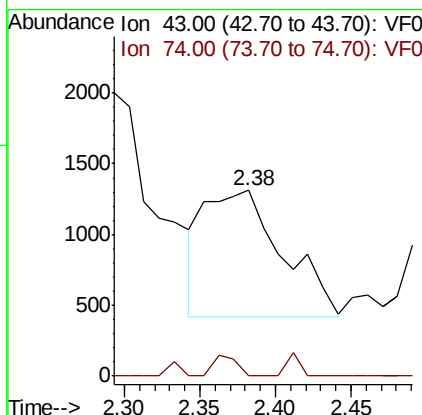
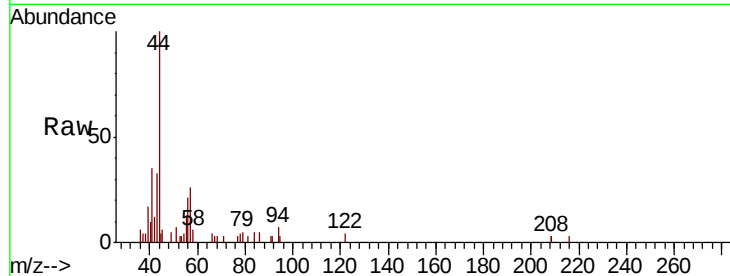




#18
Methyl Acetate
Concen: 3.794 ug/l
RT: 2.38 min Scan# 178
Delta R.T. 0.03 min
Lab File: VF061110.D
Acq: 20 Dec 2018 16:14

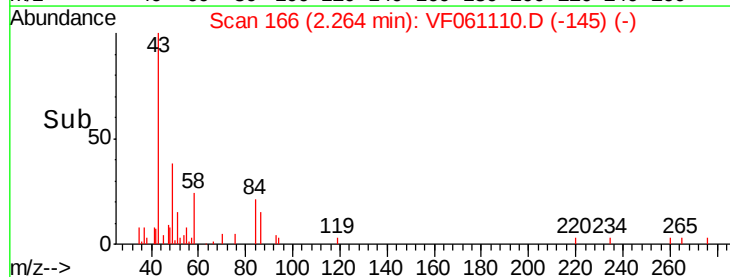
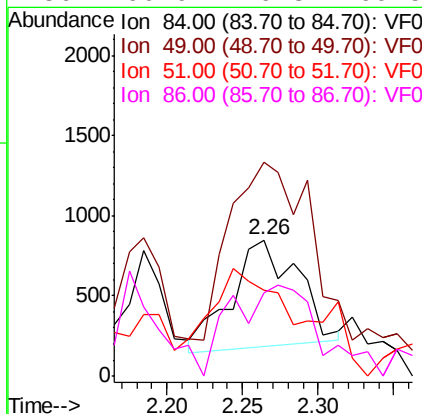
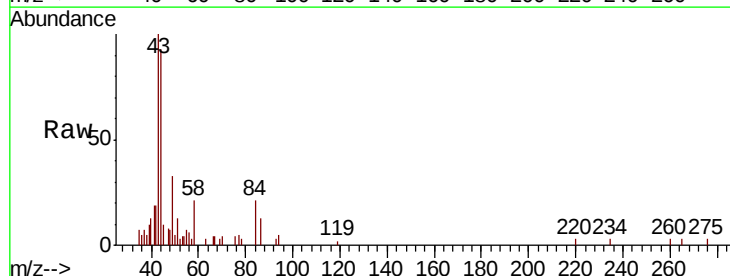
Instrument :
MSVOA_F
ClientSampleId :

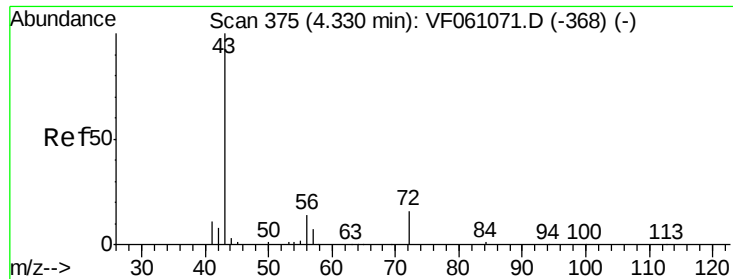
Tot Ion: 43 Resp: 3226
Ion Ratio Lower Upper
43 100
74 0.0 11.0 16.6#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.26 min Scan# 166
Delta R.T. 0.01 min
Lab File: VF061110.D
Acq: 20 Dec 2018 16:14

Tgt Ion: 84 Resp: 2028
Ion Ratio Lower Upper
84 100
49 157.0 129.4 194.2
51 63.0 44.0 66.0
86 60.9 46.3 69.5

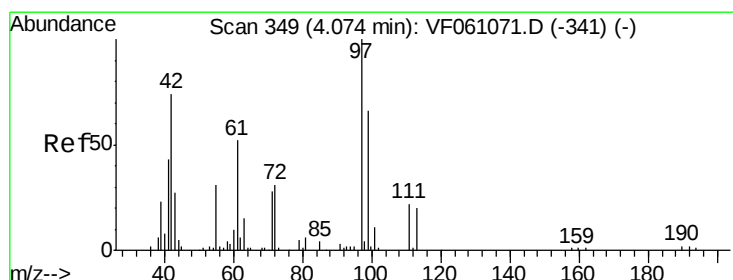
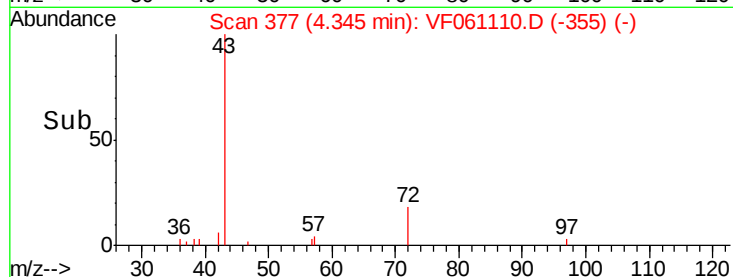
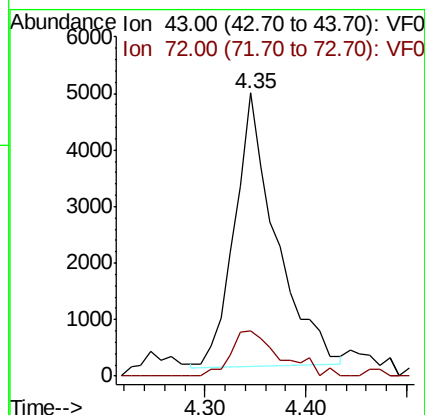
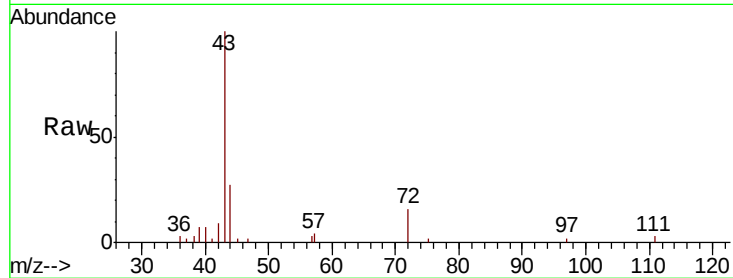




#25
2-Butanone
Concen: 20.857 ug/l
RT: 4.35 min Scan# 377
Delta R.T. 0.01 min
Lab File: VF061110.D
Acq: 20 Dec 2018 16:14

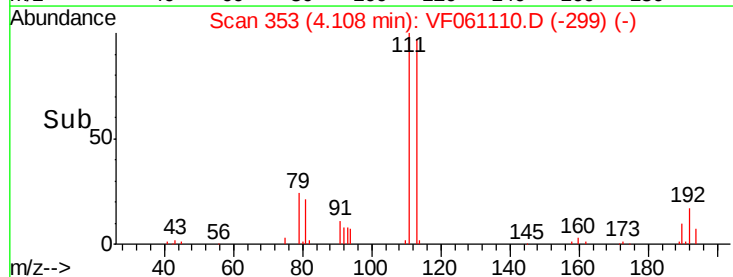
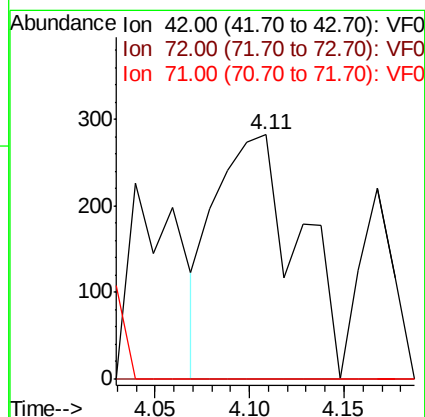
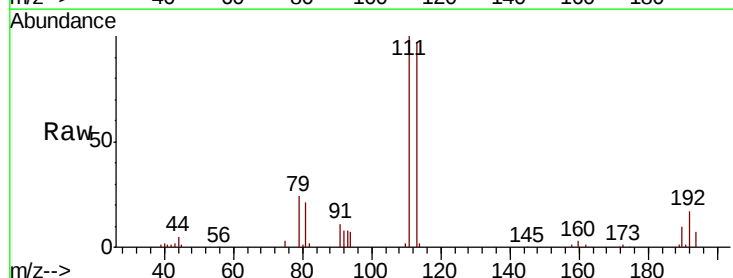
Instrument :
MSVOA_F
ClientSampled :

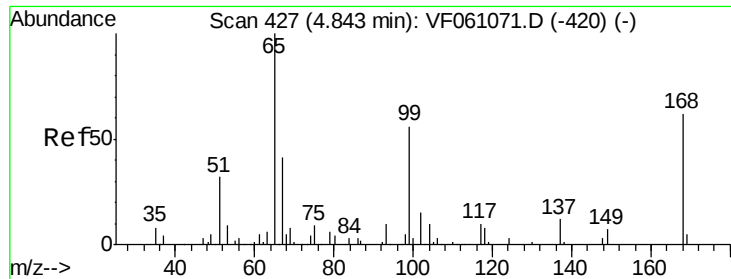
Tot Ion: 43 Resp: 13901
Ion Ratio Lower Upper
43 100
72 15.9 15.6 23.4



#29
Tetrahydrofuran
Concen: 3.200 ug/l
RT: 4.11 min Scan# 353
Delta R.T. 0.03 min
Lab File: VF061110.D
Acq: 20 Dec 2018 16:14

Tgt Ion: 42 Resp: 868
Ion Ratio Lower Upper
42 100
72 0.0 31.8 47.8#
71 0.0 29.7 44.5#





#33

1,2-Dichloroethane-d4

Concen: 44.806 ug/l

RT: 4.86 min Scan# 429

Delta R.T. 0.01 min

Lab File: VF061110.D

Acq: 20 Dec 2018 16:14

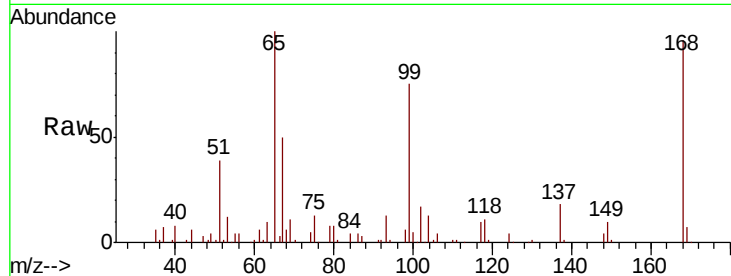
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 65 Resp: 92107

Ion Ratio Lower Upper

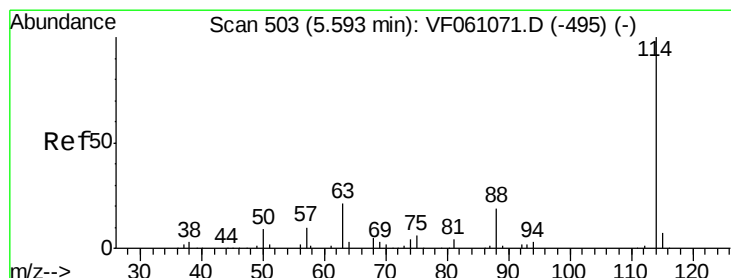
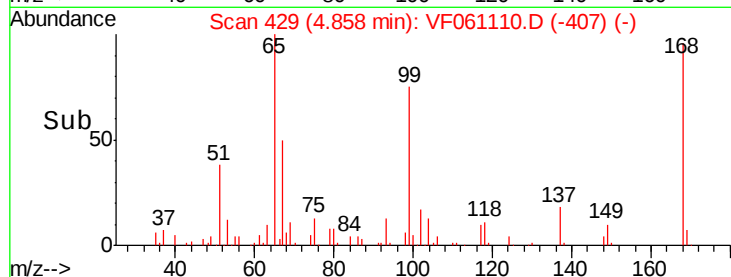
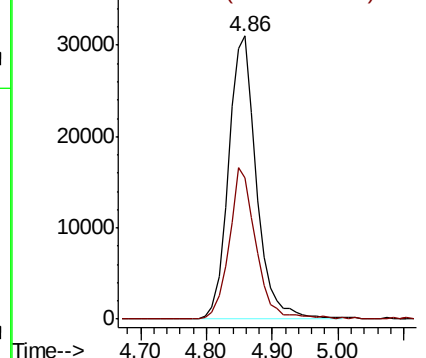
65 100

67 50.1 0.0 94.6



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: 5.61 min Scan# 505

Delta R.T. 0.01 min

Lab File: VF061110.D

Acq: 20 Dec 2018 16:14

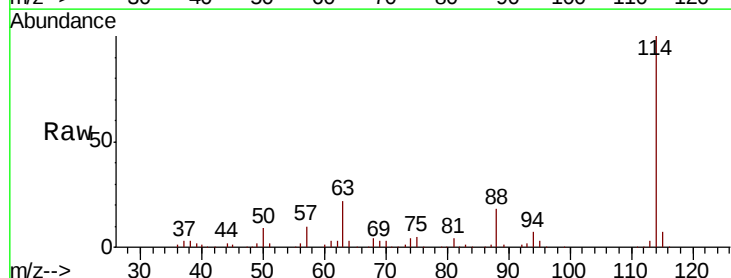
Tgt Ion: 114 Resp: 274289

Ion Ratio Lower Upper

114 100

63 21.7 0.0 41.6

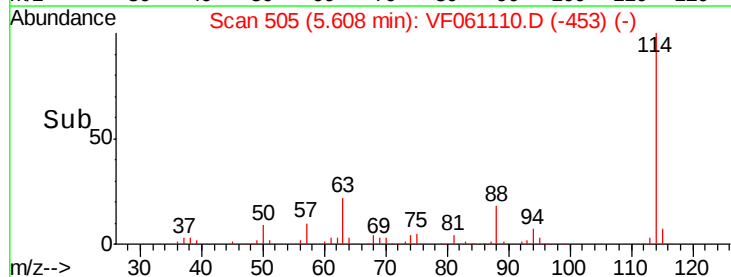
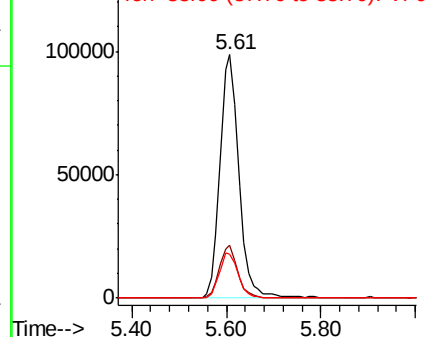
88 18.1 0.0 38.0

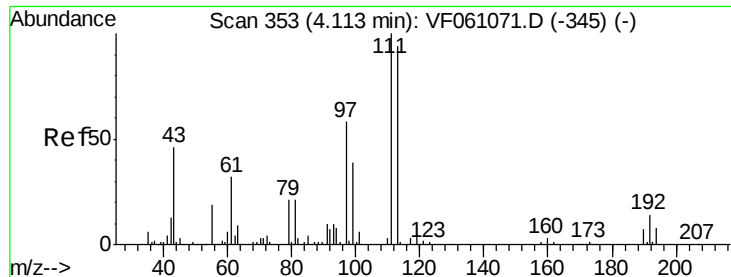


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

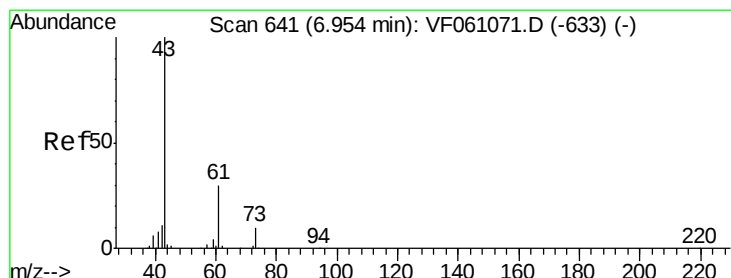
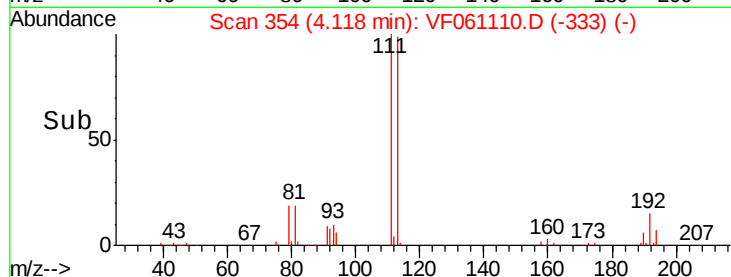
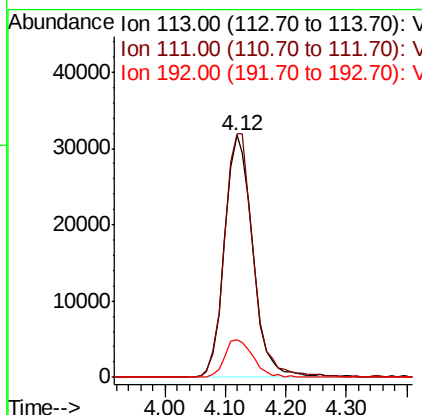
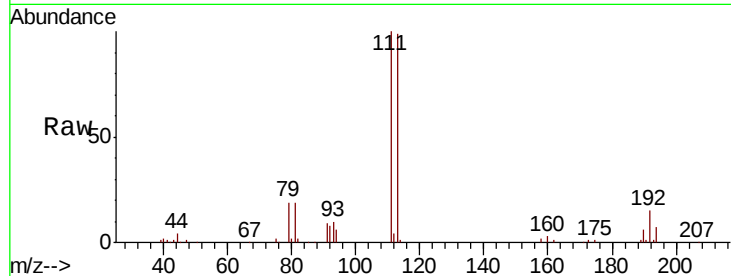




#35
 Dibromofluoromethane
 Concen: 46.710 ug/l
 RT: 4.12 min Scan# 354
 Delta R.T. 0.00 min
 Lab File: VF061110.D
 Acq: 20 Dec 2018 16:14

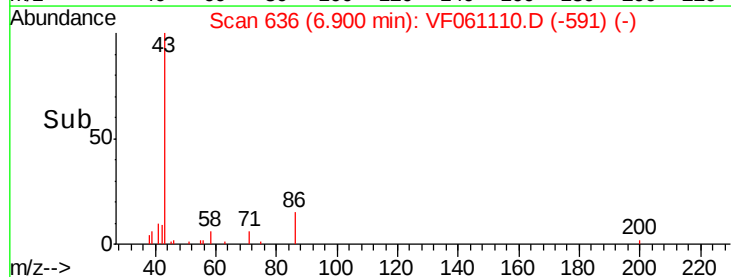
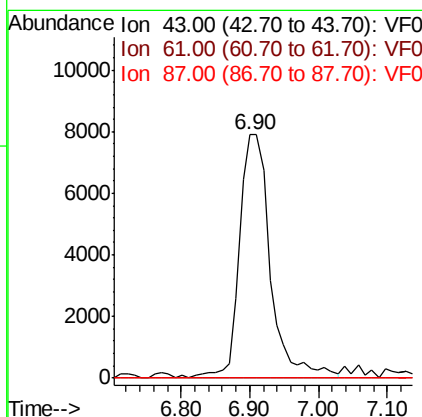
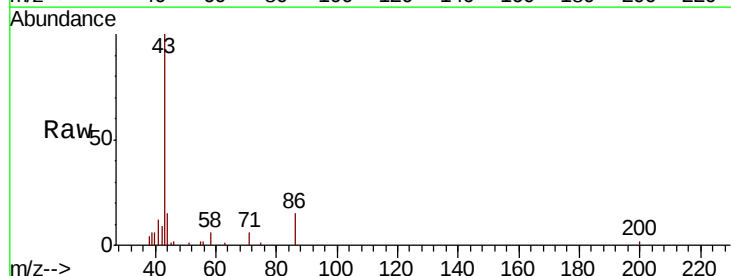
Instrument :
 MSVOA_F
 ClientSampleId :

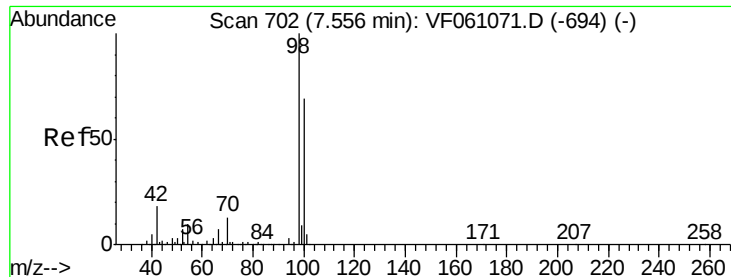
Tot Ion:113 Resp: 102631
 Ion Ratio Lower Upper
 113 100
 111 100.7 85.2 127.8
 192 15.3 12.8 19.2



#43
 Isopropyl Acetate
 Concen: 15.394 ug/l
 RT: 6.90 min Scan# 636
 Delta R.T. -0.05 min
 Lab File: VF061110.D
 Acq: 20 Dec 2018 16:14

Tgt Ion: 43 Resp: 24609
 Ion Ratio Lower Upper
 43 100
 61 0.0 23.8 35.8#
 87 0.0 0.0 0.0

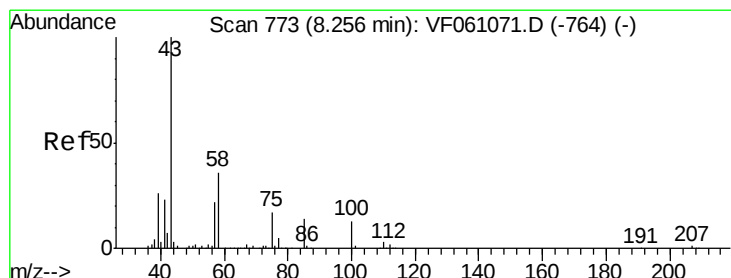
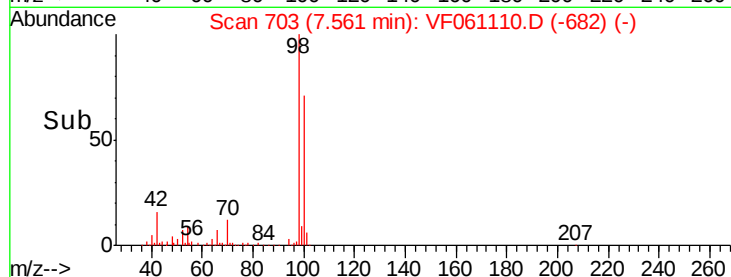
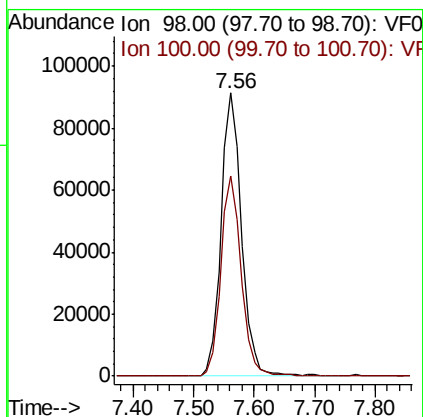
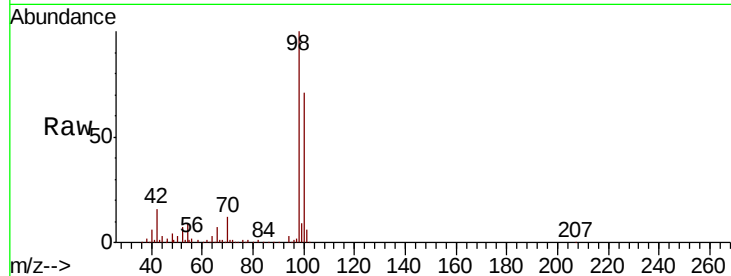




#50
Toluene-d8
Concen: 34.511 ug/l
RT: 7.56 min Scan# 703
Delta R.T. 0.00 min
Lab File: VF061110.D
Acq: 20 Dec 2018 16:14

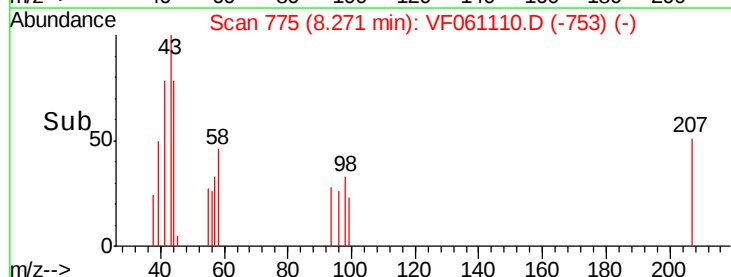
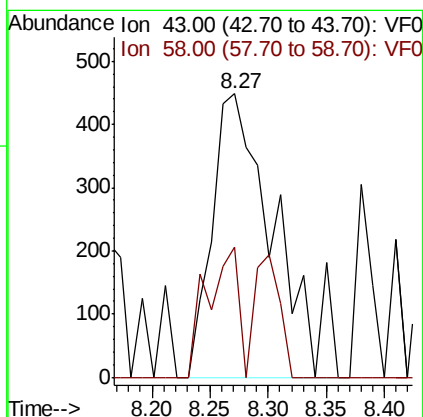
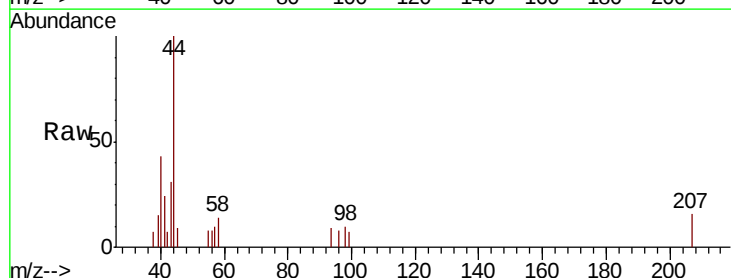
Instrument :
MSVOA_F
ClientSampled :

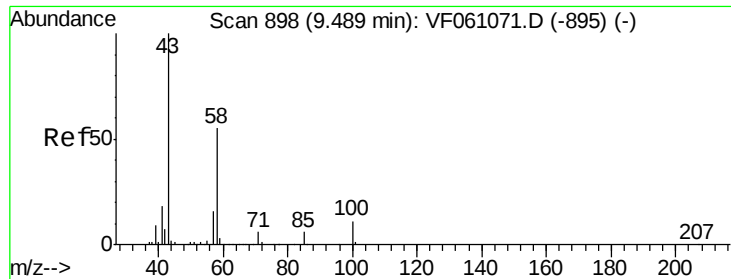
Tot Ion: 98 Resp: 214890
Ion Ratio Lower Upper
98 100
100 70.7 55.3 82.9



#51
4-Methyl-2-Pentanone
Concen: 1.531 ug/l
RT: 8.27 min Scan# 775
Delta R.T. 0.01 min
Lab File: VF061110.D
Acq: 20 Dec 2018 16:14

Tgt Ion: 43 Resp: 1679
Ion Ratio Lower Upper
43 100
58 46.0 29.1 43.7#

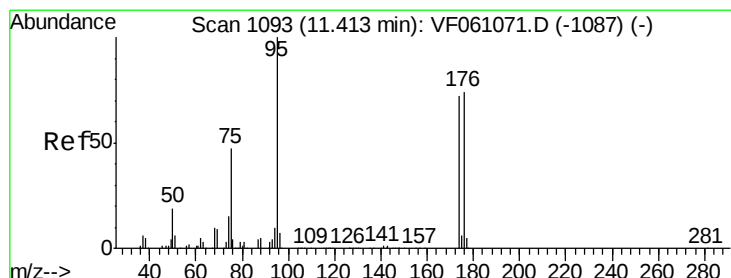
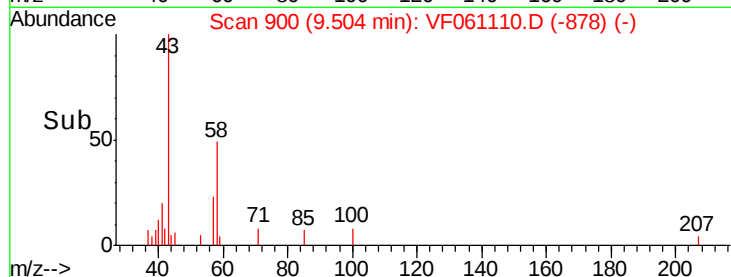
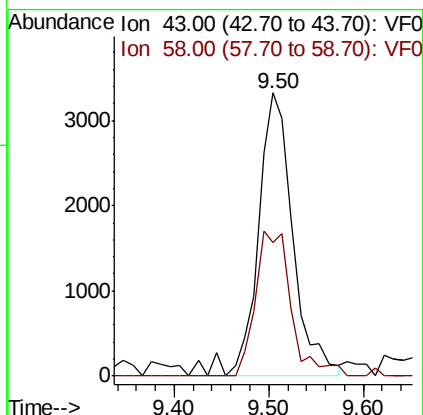
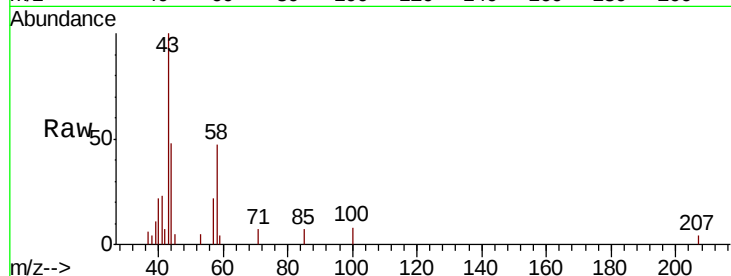




#59
2-Hexanone
Concen: 10.867 ug/l
RT: 9.50 min Scan# 900
Delta R.T. 0.01 min
Lab File: VF061110.D
Acq: 20 Dec 2018 16:14

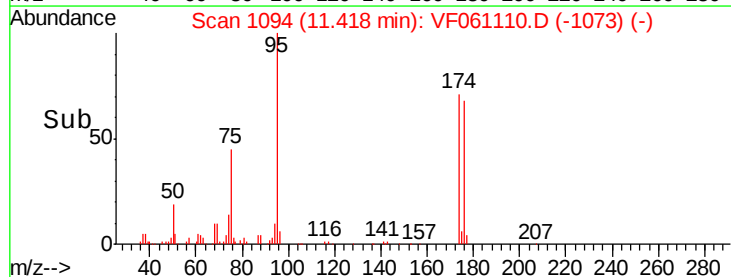
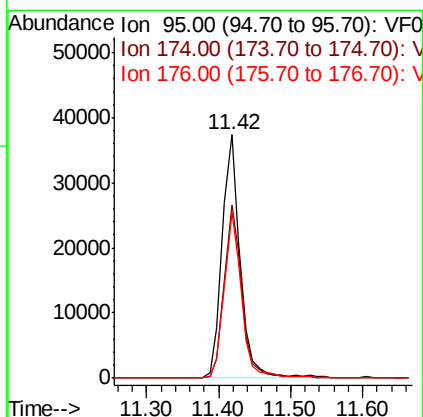
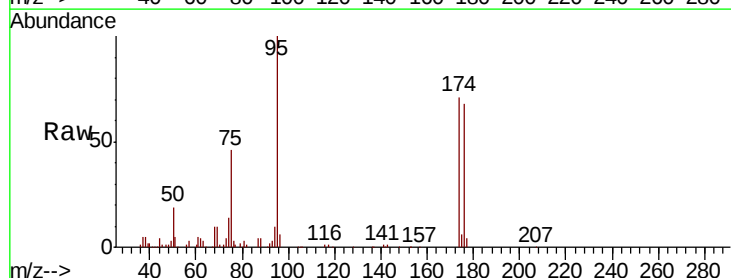
Instrument :
MSVOA_F
ClientSampleId :

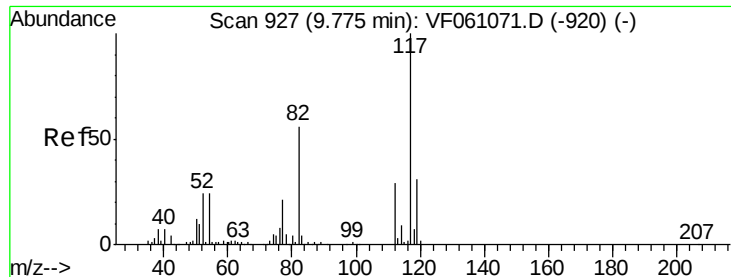
Tot Ion: 43 Resp: 8616
Ion Ratio Lower Upper
43 100
58 47.3 25.1 75.2



#62
4-Bromofluorobenzene
Concen: 22.574 ug/l
RT: 11.42 min Scan# 1094
Delta R.T. 0.00 min
Lab File: VF061110.D
Acq: 20 Dec 2018 16:14

Tgt Ion: 95 Resp: 64801
Ion Ratio Lower Upper
95 100
174 71.3 0.0 143.8
176 68.1 0.0 147.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.78 min Scan# 928

Delta R.T. 0.00 min

Lab File: VF061110.D

Acq: 20 Dec 2018 16:14

Instrument :
MSVOA_F
ClientSampleId :

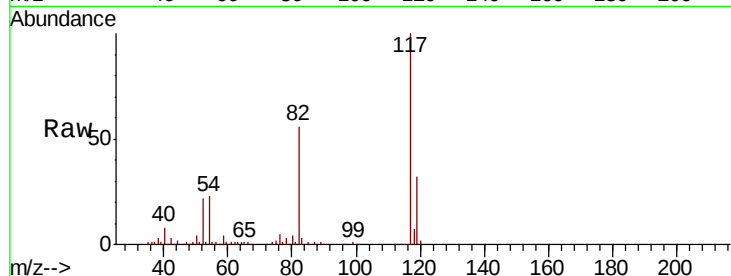
Tot Ion:117 Resp: 171859

Ion Ratio Lower Upper

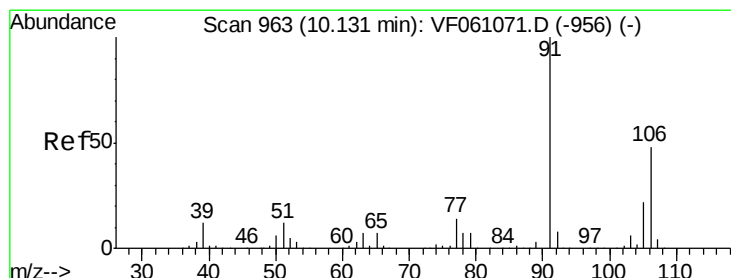
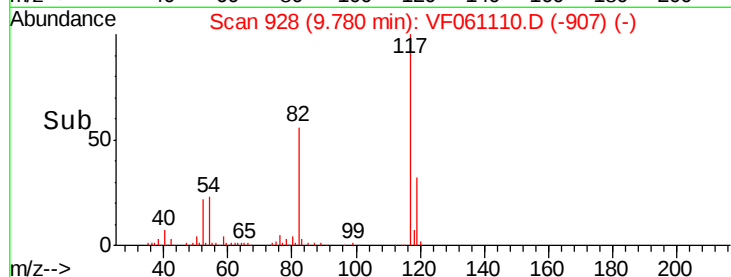
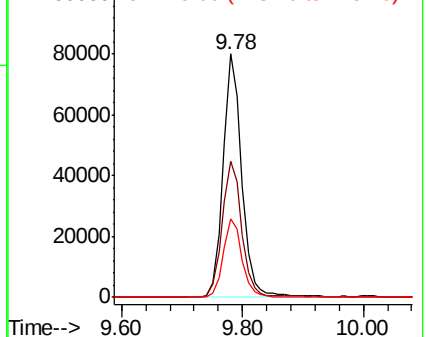
117 100

82 56.1 45.0 67.4

119 32.4 24.8 37.2



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V



#68

m/p-Xylenes

Concen: 10.400 ug/l

RT: 10.14 min Scan# 964

Delta R.T. 0.00 min

Lab File: VF061110.D

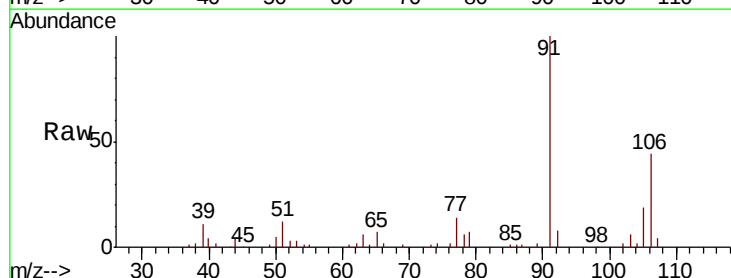
Acq: 20 Dec 2018 16:14

Tgt Ion:106 Resp: 23673

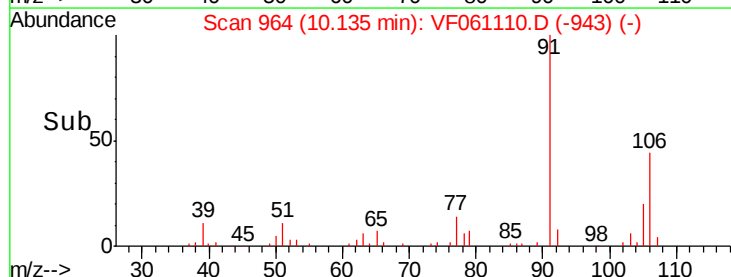
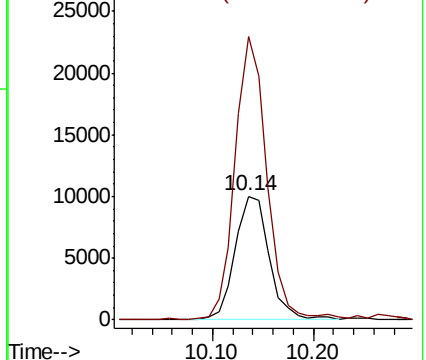
Ion Ratio Lower Upper

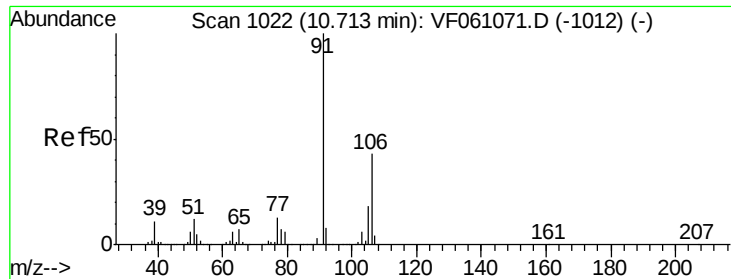
106 100

91 229.0 168.2 252.2



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0

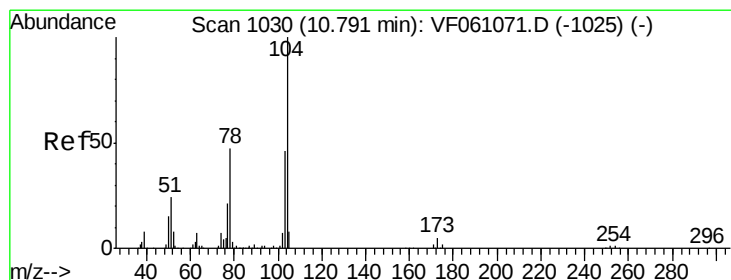
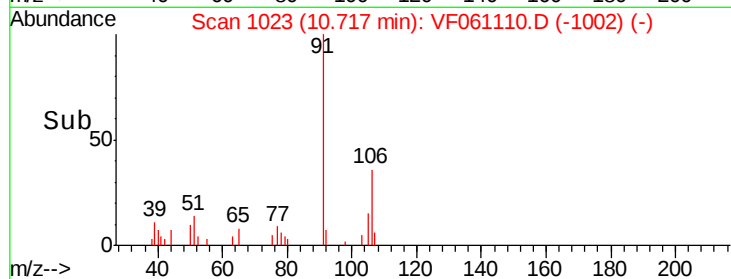
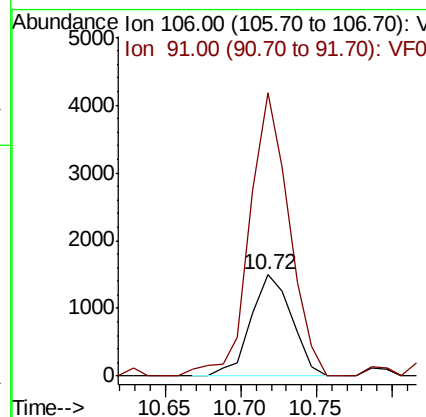
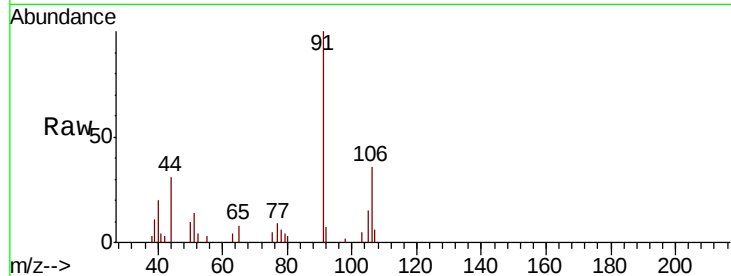




#69
o-Xylene
Concen: 1.121 ug/l
RT: 10.72 min Scan# 1023
Delta R.T. 0.00 min
Lab File: VF061110.D
Acq: 20 Dec 2018 16:14

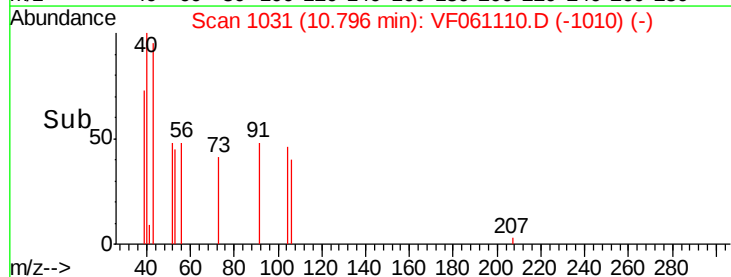
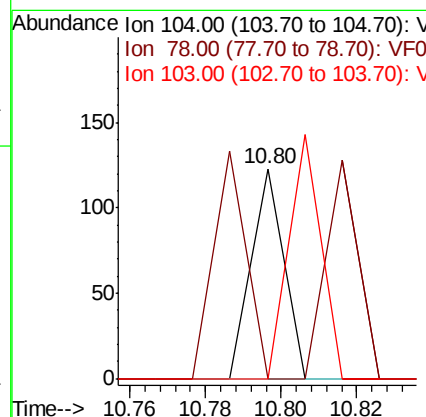
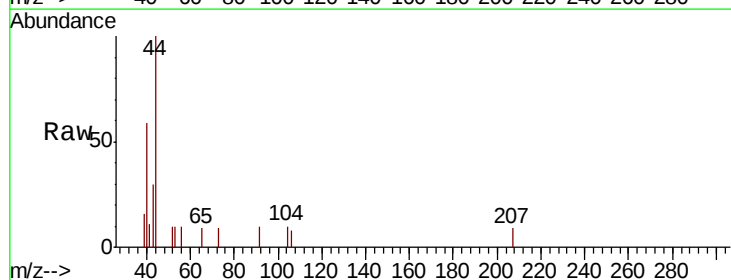
Instrument :
MSVOA_F
ClientSampled :

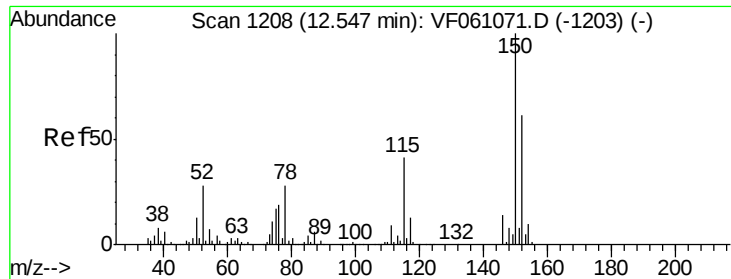
Tot Ion:106 Resp: 2830
Ion Ratio Lower Upper
106 100
91 279.8 115.9 347.7



#70
Styrene
Concen: Below Cal
RT: 10.80 min Scan# 1031
Delta R.T. 0.01 min
Lab File: VF061110.D
Acq: 20 Dec 2018 16:14

Tgt Ion:104 Resp: 73
Ion Ratio Lower Upper
104 100
78 0.0 38.4 57.6#
103 0.0 37.0 55.6#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1209

Delta R.T. 0.00 min

Lab File: VF061110.D

Acq: 20 Dec 2018 16:14

Instrument :

MSVOA_F

ClientSampleId :

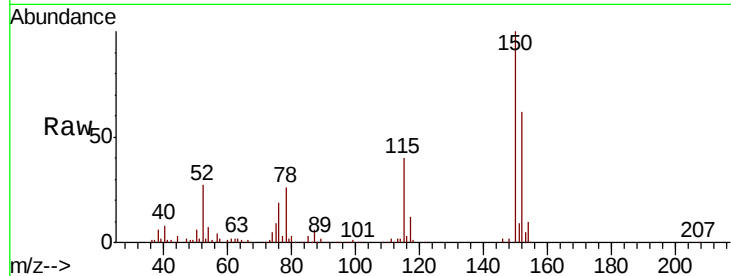
Tot Ion:152 Resp: 52482

Ion Ratio Lower Upper

152 100

115 64.3 33.3 99.9

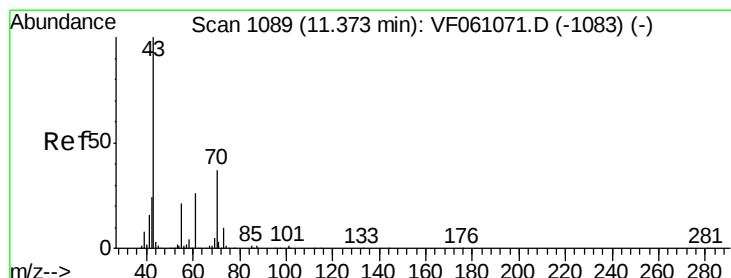
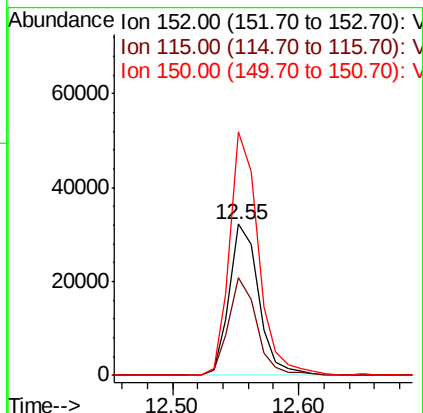
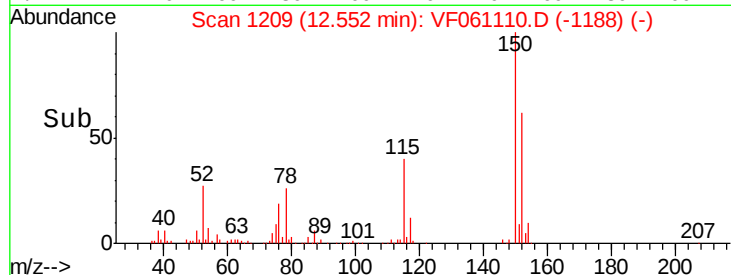
150 160.9 0.0 328.2



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: 39.292 ug/l

RT: 11.47 min Scan# 1099

Delta R.T. 0.09 min

Lab File: VF061110.D

Acq: 20 Dec 2018 16:14

Tgt Ion: 43 Resp: 39453

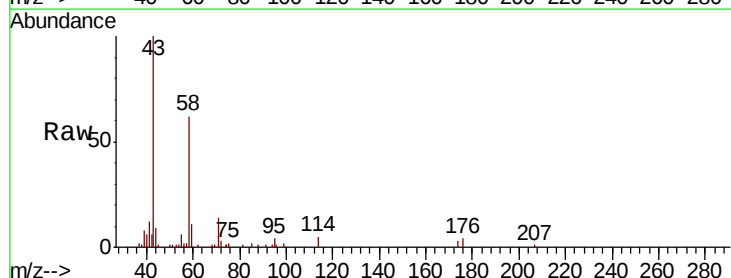
Ion Ratio Lower Upper

43 100

70 0.0 29.2 43.8#

55 5.6 16.5 24.7#

61 0.0 20.7 31.1#

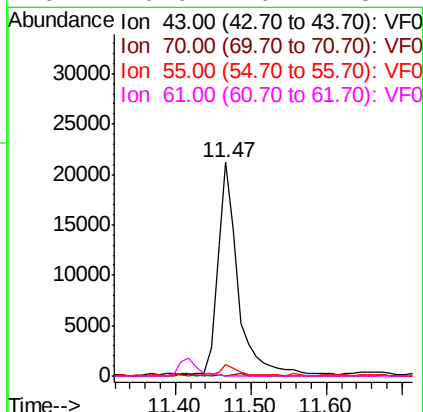
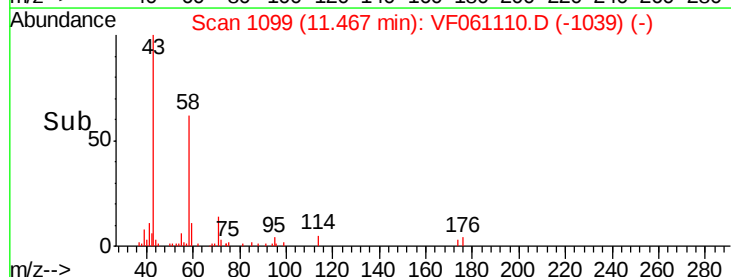


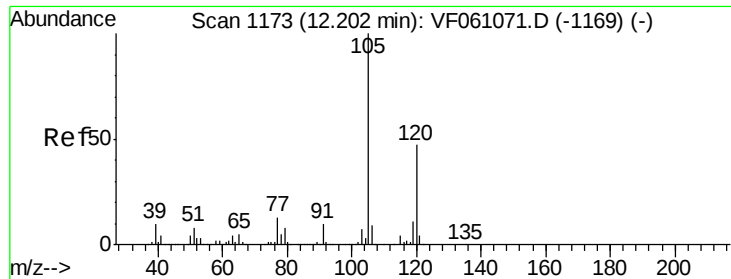
Abundance Ion 43.00 (42.70 to 43.70): VF0

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

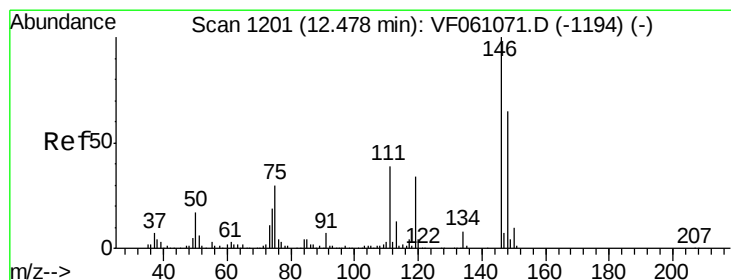
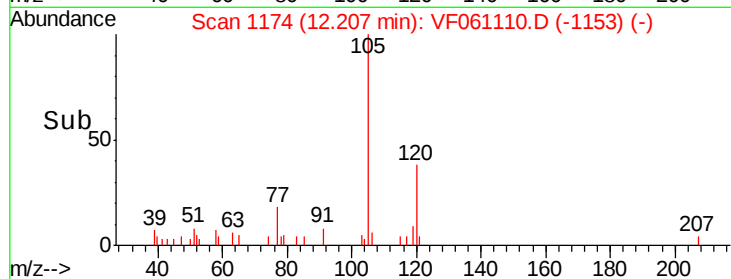
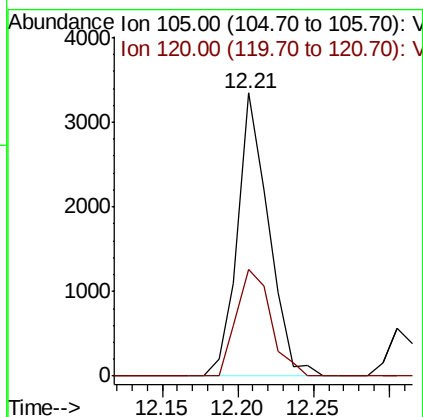
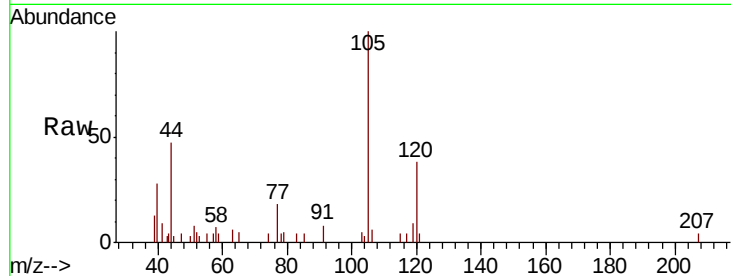




#84
 1,2,4-Trimethylbenzene
 Concen: 1.288 ug/l
 RT: 12.21 min Scan# 1174
 Delta R.T. 0.00 min
 Lab File: VF061110.D
 Acq: 20 Dec 2018 16:14

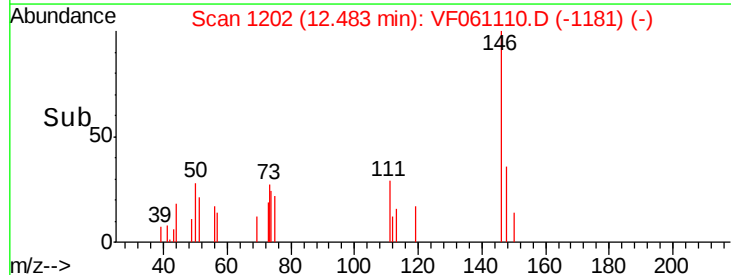
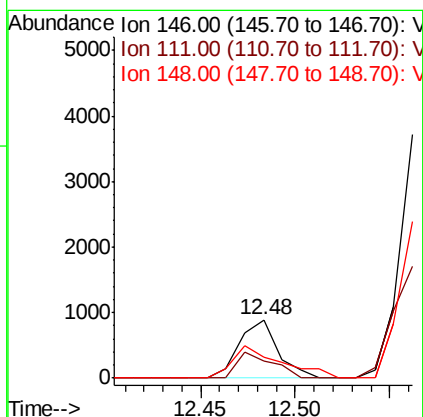
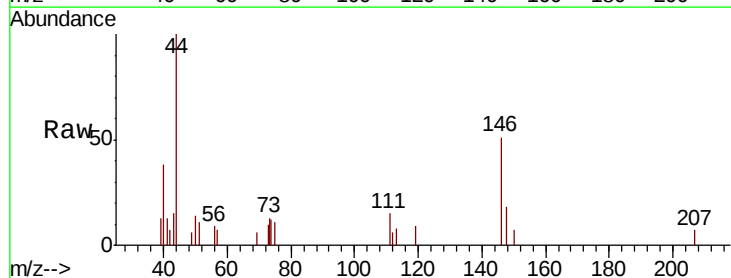
Instrument :
 MSVOA_F
 ClientSampleId :

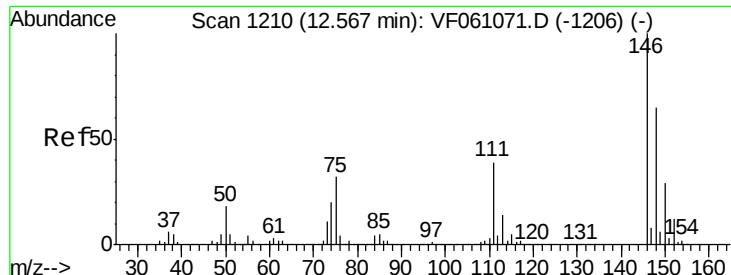
Tot Ion:105 Resp: 4785
 Ion Ratio Lower Upper
 105 100
 120 37.8 23.6 71.0



#87
 1,3-Dichlorobenzene
 Concen: Below Cal
 RT: 12.48 min Scan# 1202
 Delta R.T. 0.01 min
 Lab File: VF061110.D
 Acq: 20 Dec 2018 16:14

Tgt Ion:146 Resp: 1265
 Ion Ratio Lower Upper
 146 100
 111 28.9 19.3 57.9
 148 35.9 32.4 97.2





#88

1,4-Dichlorobenzene

Concen: 4.447 ug/l

RT: 12.57 min Scan# 1211

Delta R.T. 0.00 min

Lab File: VF061110.D

Acq: 20 Dec 2018 16:14

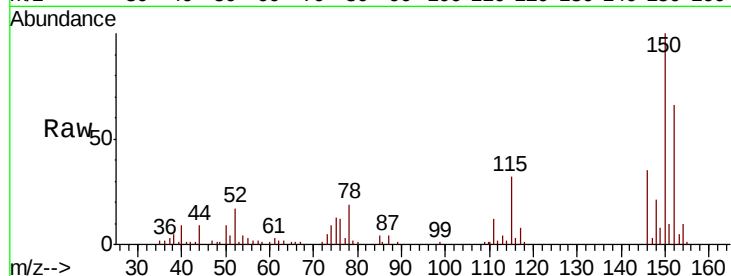
Instrument :

MSVOA_F

ClientSampleId :

Tot Ion:146 Resp: 7950

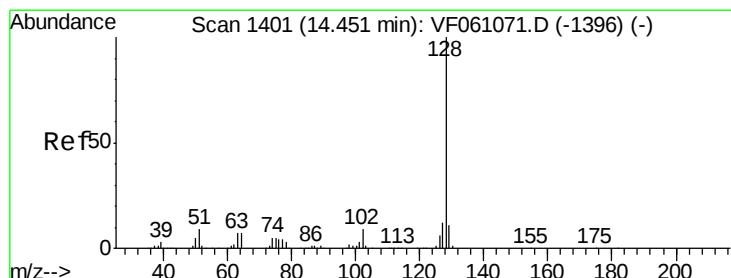
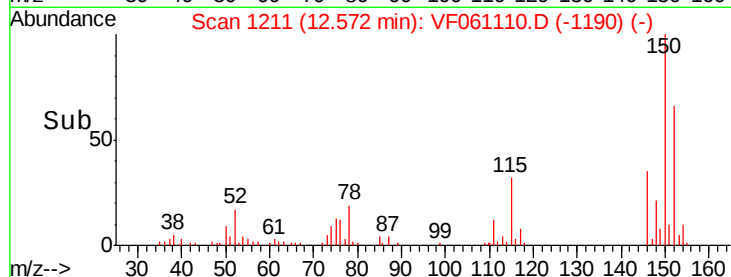
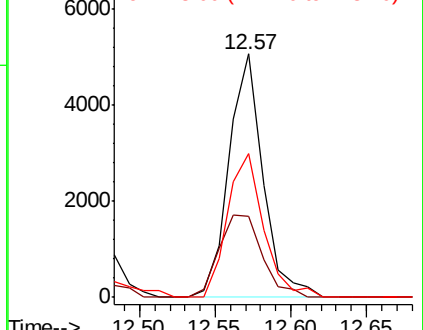
Ion	Ratio	Lower	Upper
146	100		
111	33.4	19.4	58.4
148	59.1	32.4	97.0



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#95

Naphthalene

Concen: 1.020 ug/l

RT: 14.47 min Scan# 1403

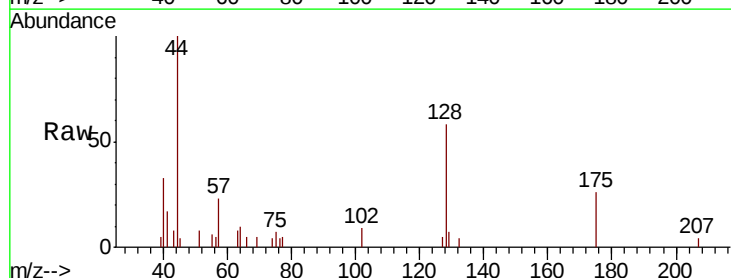
Delta R.T. 0.01 min

Lab File: VF061110.D

Acq: 20 Dec 2018 16:14

Tgt Ion:128 Resp: 2298

Ion	Ratio	Lower	Upper
128	100		
127	8.0	9.4	14.2#
129	11.9	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

