

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF122018\
 Data File : VF061114.D
 Acq On : 20 Dec 2018 18:09
 Operator : VA/AP
 Sample : J6377-15
 Misc : 3.38g/5mL/MSVOA-F/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 21 06:44:05 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	169325	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.60	114	290180	50.00	ug/l	0.01
63) Chlorobenzene-d5	9.79	117	201934	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.56	152	61407	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.85	65	92187	42.33	ug/l	0.01
Spiked Amount			Recovery	=	84.66%	
35) Dibromofluoromethane	4.12	113	100629	43.29	ug/l	0.01
Spiked Amount			Recovery	=	86.58%	
50) Toluene-d8	7.57	98	218261	33.13	ug/l	0.01
Spiked Amount			Recovery	=	66.26%	
62) 4-Bromofluorobenzene	11.41	95	66692	21.96	ug/l	0.00
Spiked Amount			Recovery	=	43.92%	

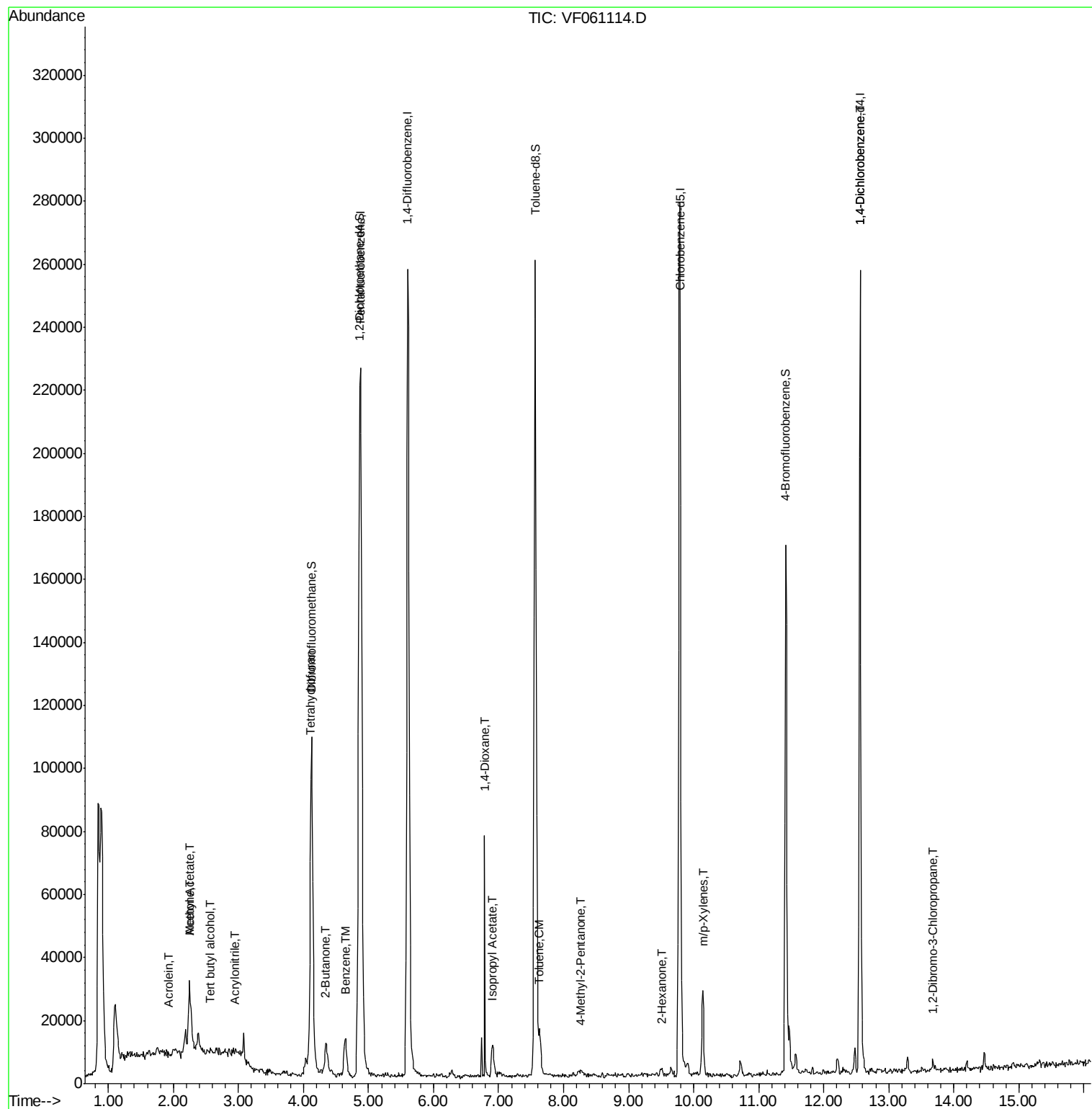
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.58	59	210	2.390	ug/l #	1
13) Acrolein	1.92	56	374	5.889	ug/l	93
15) Acrylonitrile	2.96	53	556	2.736	ug/l #	37
16) Acetone	2.24	43	36190	83.125	ug/l	96
18) Methyl Acetate	2.24	43	30641	34.018	ug/l #	66
20) Methylene Chloride	2.19	84	1711	Below Cal		82
25) 2-Butanone	4.35	43	21005	29.749	ug/l	95
29) Tetrahydrofuran	4.10	42	547	1.903	ug/l #	37
40) Benzene	4.65	78	15473	2.054	ug/l	92
43) Isopropyl Acetate	6.91	43	17050	10.081	ug/l #	45
49) 1,4-Dioxane	6.79	88	66	7.704	ug/l #	1
51) 4-Methyl-2-Pentanone	8.27	43	1803	1.554	ug/l #	38
52) Toluene	7.63	92	6330	1.270	ug/l	90
59) 2-Hexanone	9.51	43	2956	3.524	ug/l	86
68) m/p-Xylenes	10.14	106	9463	3.538	ug/l	94
70) Styrene	10.80	104	244	Below Cal	#	30
78) n-propylbenzene	11.60	91	1038	Below Cal	#	26
87) 1,3-Dichlorobenzene	12.48	146	2349	Below Cal		90
88) 1,4-Dichlorobenzene	12.57	146	7005	3.349	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.67	75	240	1.489	ug/l #	2

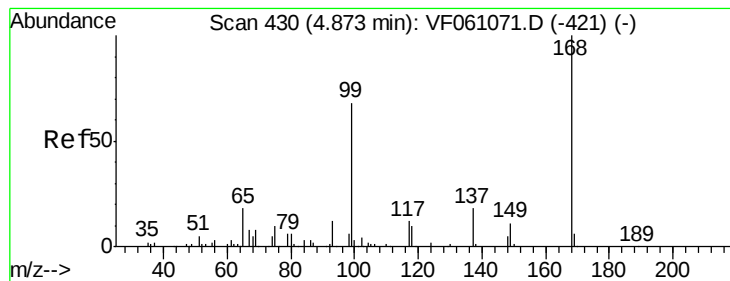
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Dec 20 00:56:59 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. 0.01 min

Lab File: VF061114.D

Acq: 20 Dec 2018 18:09

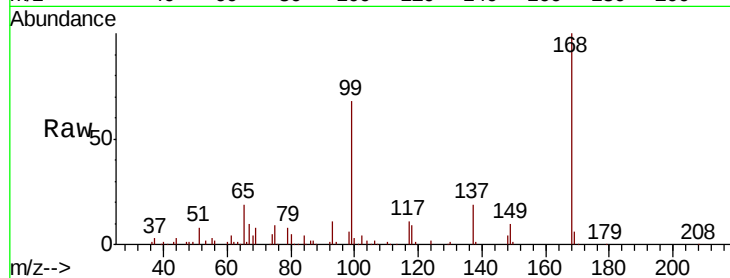
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 169325

Ion Ratio Lower Upper

168 100

99 67.6 54.4 81.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.88

60000

50000

40000

30000

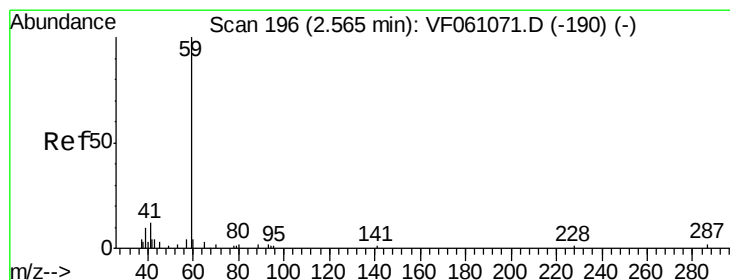
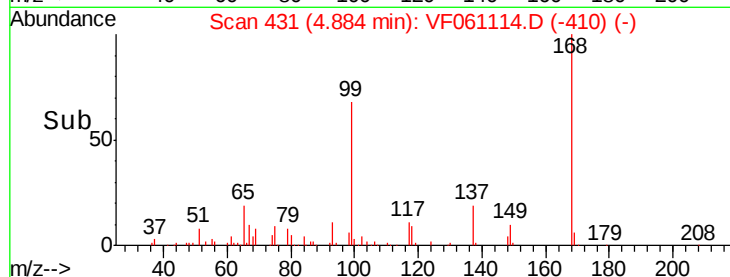
20000

10000

0

4.70 4.80 4.90 5.00 5.10

Time-->



#11

Tert butyl alcohol

Concen: 2.390 ug/l

RT: 2.58 min Scan# 197

Delta R.T. 0.01 min

Lab File: VF061114.D

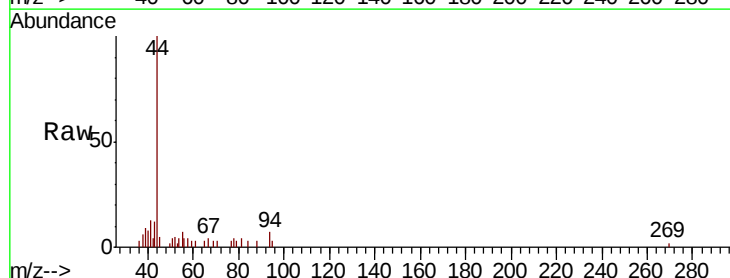
Acq: 20 Dec 2018 18:09

Tgt Ion: 59 Resp: 210

Ion Ratio Lower Upper

59 100

57 154.0 11.5 17.3#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

300

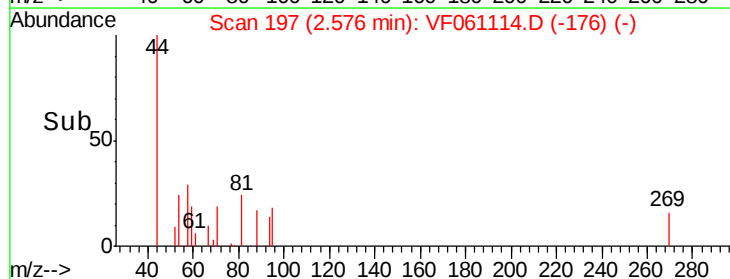
200

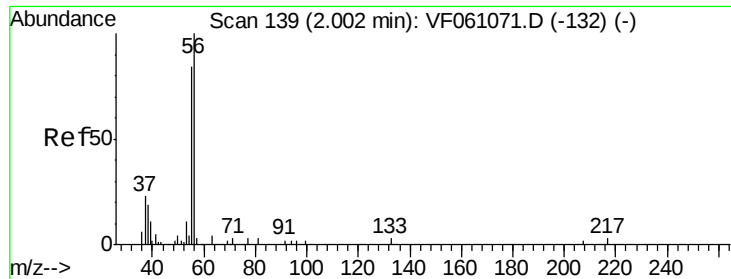
100

0

2.55 2.60

Time-->

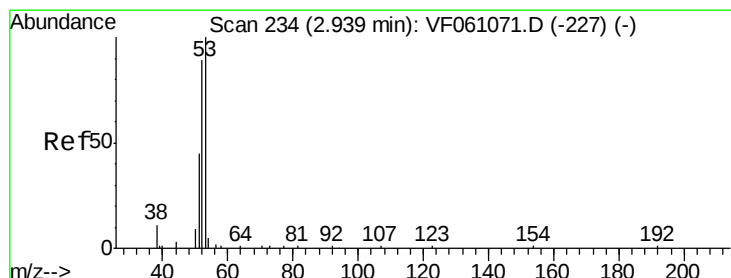
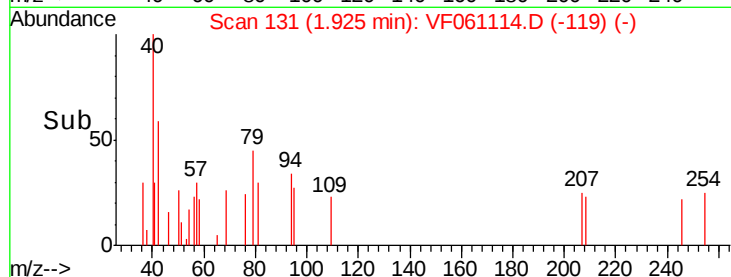
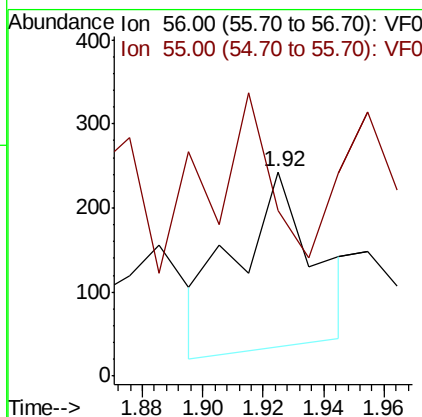
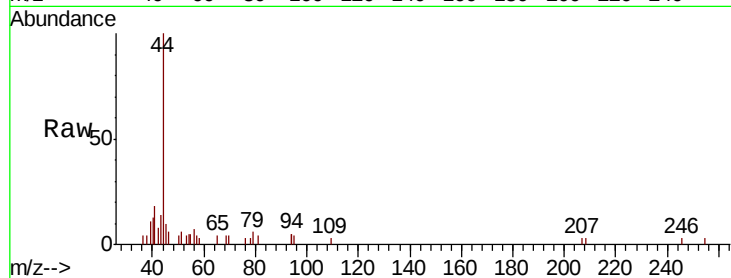




#13
Acrolein
Concen: 5.889 ug/l
RT: 1.92 min Scan# 131
Delta R.T. -0.08 min
Lab File: VF061114.D
Acq: 20 Dec 2018 18:09

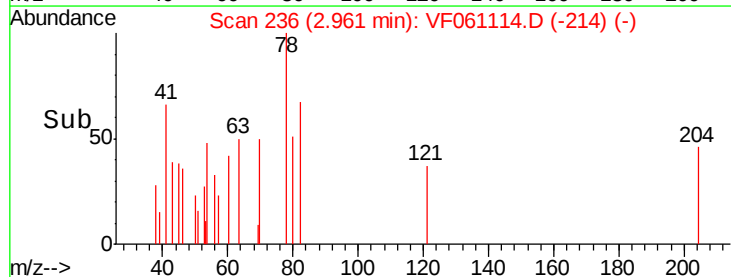
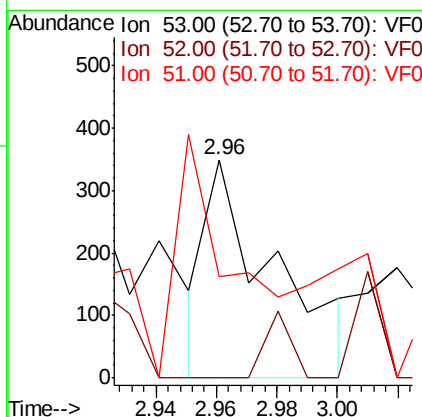
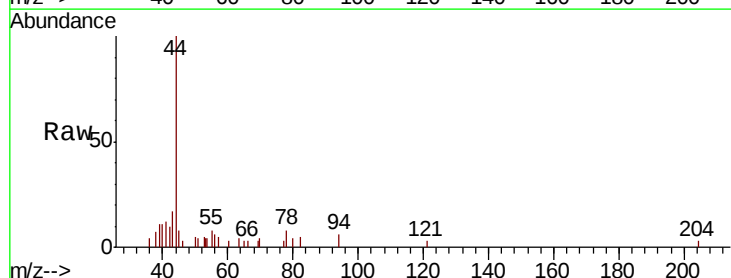
Instrument :
MSVOA_F
ClientSampled :

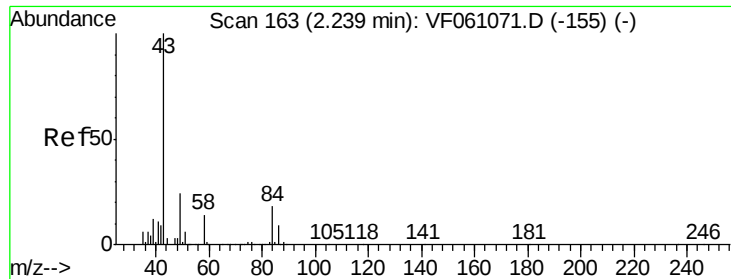
Tot Ion: 56 Resp: 374
Ion Ratio Lower Upper
56 100
55 81.1 70.2 105.2



#15
Acrylonitrile
Concen: 2.736 ug/l
RT: 2.96 min Scan# 236
Delta R.T. 0.02 min
Lab File: VF061114.D
Acq: 20 Dec 2018 18:09

Tgt Ion: 53 Resp: 556
Ion Ratio Lower Upper
53 100
52 0.0 71.3 106.9#
51 46.6 36.8 55.2

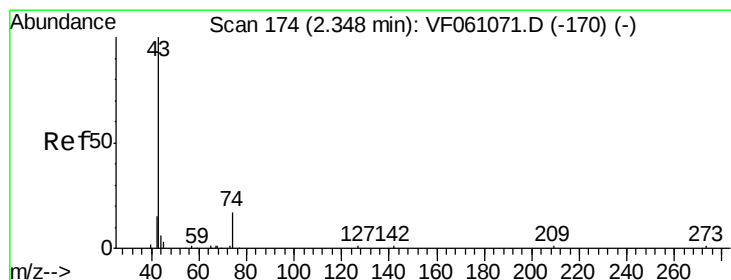
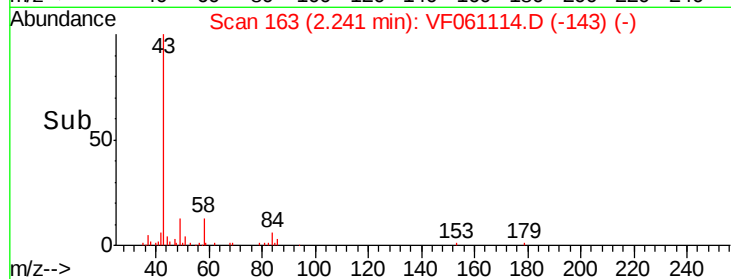
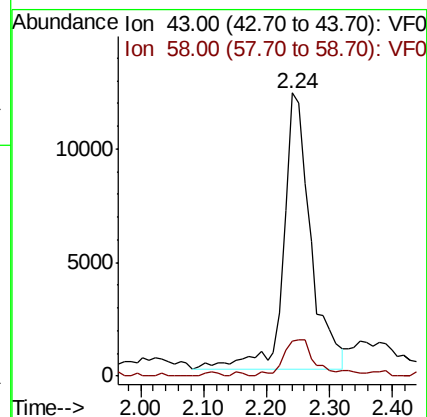
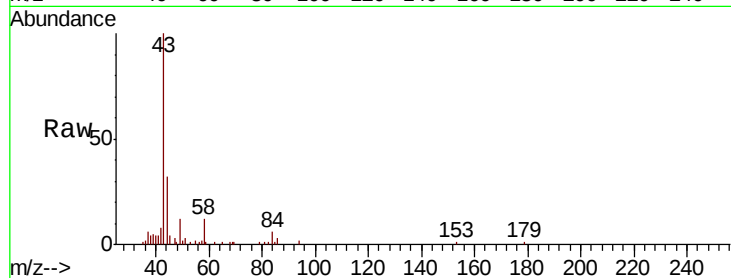




#16
Acetone
Concen: 83.125 ug/l
RT: 2.24 min Scan# 163
Delta R.T. 0.00 min
Lab File: VF061114.D
Acq: 20 Dec 2018 18:09

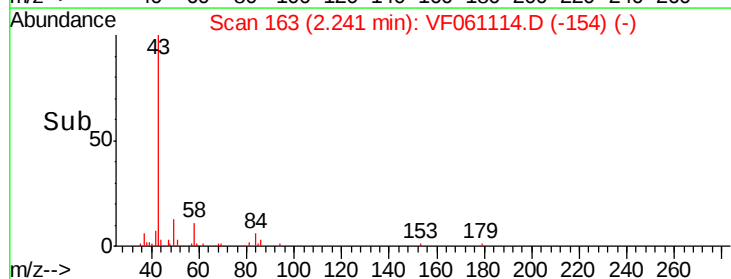
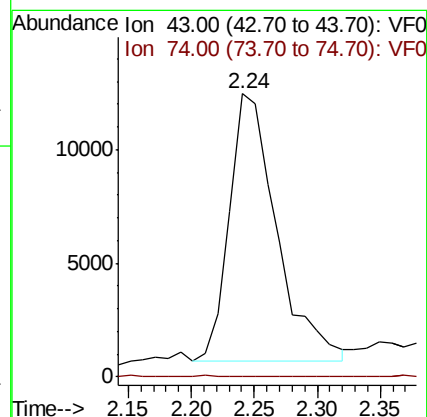
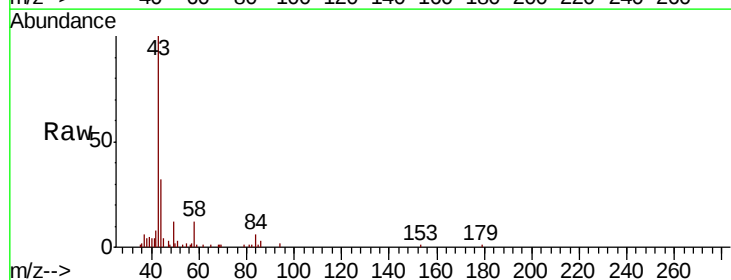
Instrument :
MSVOA_F
ClientSampleId :

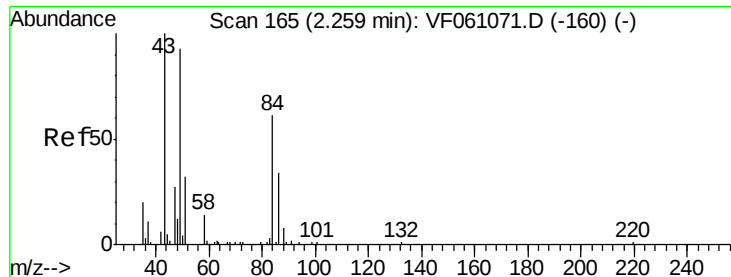
Tot Ion: 43 Resp: 36190
Ion Ratio Lower Upper
43 100
58 12.4 11.1 16.7



#18
Methyl Acetate
Concen: 34.018 ug/l
RT: 2.24 min Scan# 163
Delta R.T. -0.11 min
Lab File: VF061114.D
Acq: 20 Dec 2018 18:09

Tgt Ion: 43 Resp: 30641
Ion Ratio Lower Upper
43 100
74 0.0 11.0 16.6#

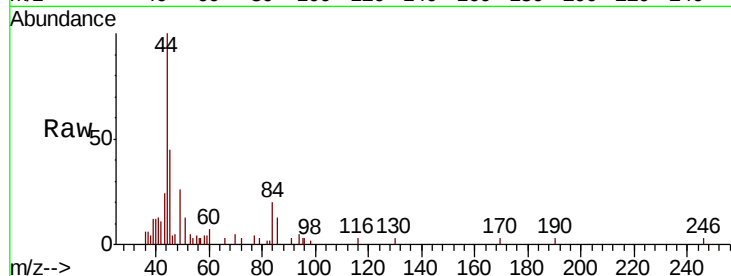




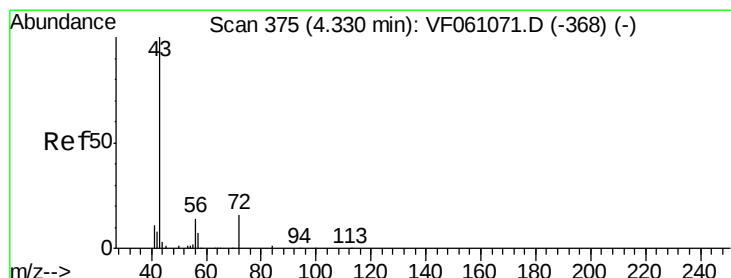
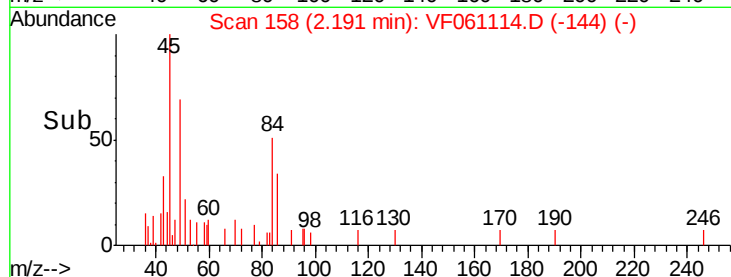
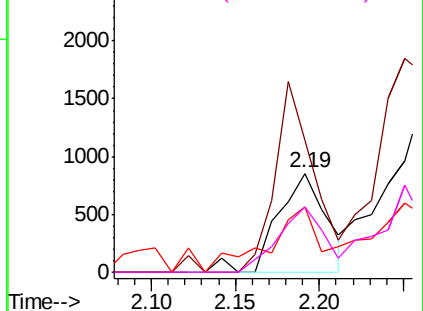
#20
Methvlene Chloride
Concen: Below Cal
RT: 2.19 min Scan# 158
Delta R.T. -0.07 min
Lab File: VF061114.D
Acq: 20 Dec 2018 18:09

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 84 Resp: 1711
Ion Ratio Lower Upper
84 100
49 133.8 129.4 194.2
51 65.6 44.0 66.0
86 65.6 46.3 69.5

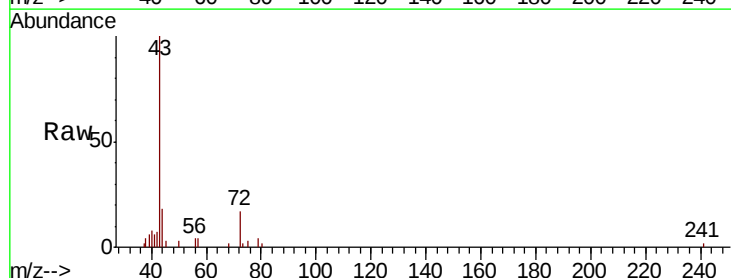


Abundance Ion 84.00 (83.70 to 84.70): VF0
Ion 49.00 (48.70 to 49.70): VF0
Ion 51.00 (50.70 to 51.70): VF0
Ion 86.00 (85.70 to 86.70): VF0

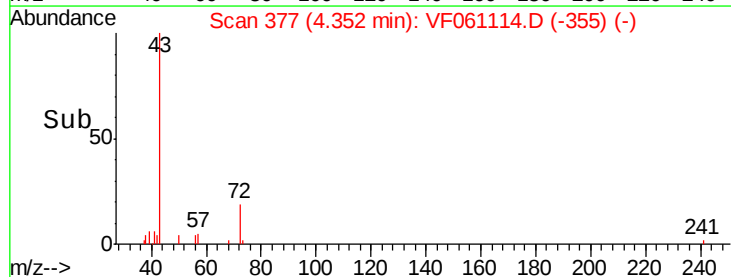
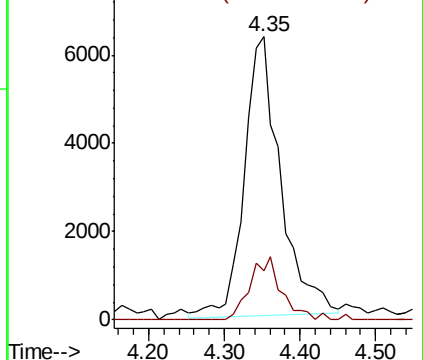


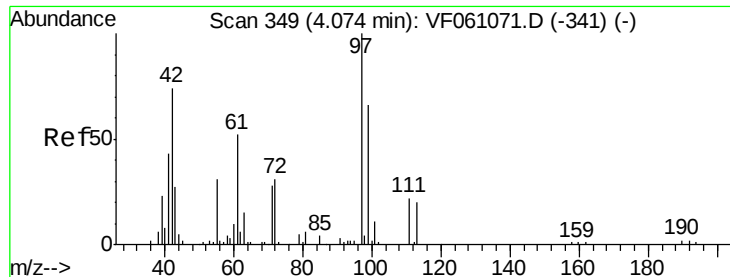
#25
2-Butanone
Concen: 29.749 ug/l
RT: 4.35 min Scan# 377
Delta R.T. 0.02 min
Lab File: VF061114.D
Acq: 20 Dec 2018 18:09

Tgt Ion: 43 Resp: 21005
Ion Ratio Lower Upper
43 100
72 17.3 15.6 23.4



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 72.00 (71.70 to 72.70): VF0





#29

Tetrahydrofuran

Concen: 1.903 ug/l

RT: 4.10 min Scan# 352

Delta R.T. 0.03 min

Lab File: VF061114.D

Acq: 20 Dec 2018 18:09

Instrument :

MSVOA_F

ClientSampleId :

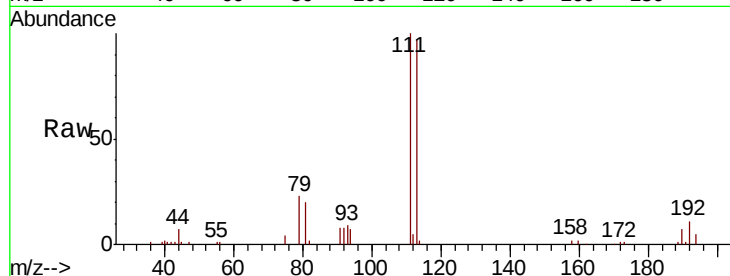
Tot Ion: 42 Resp: 547

Ion Ratio Lower Upper

42 100

72 0.0 31.8 47.8#

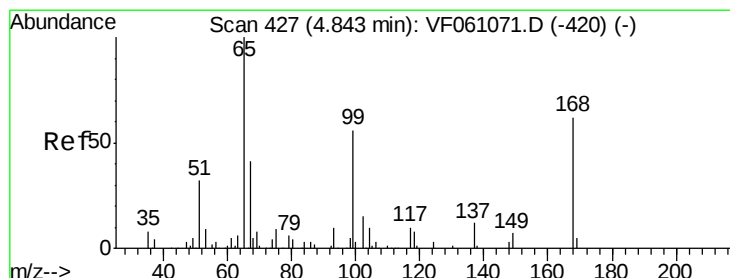
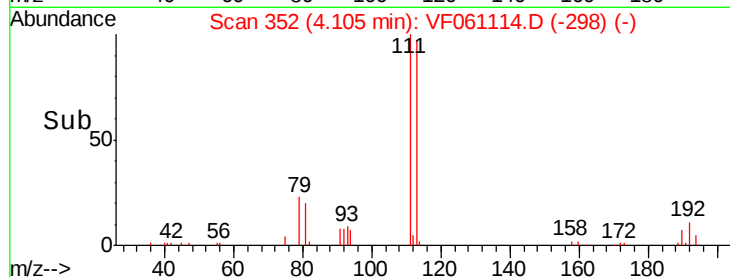
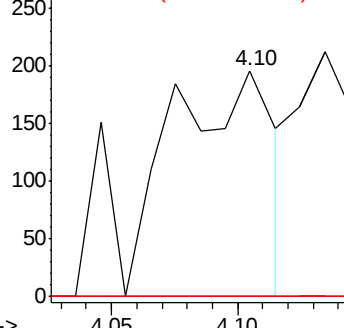
71 0.0 29.7 44.5#



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: 42.330 ug/l

RT: 4.85 min Scan# 428

Delta R.T. 0.01 min

Lab File: VF061114.D

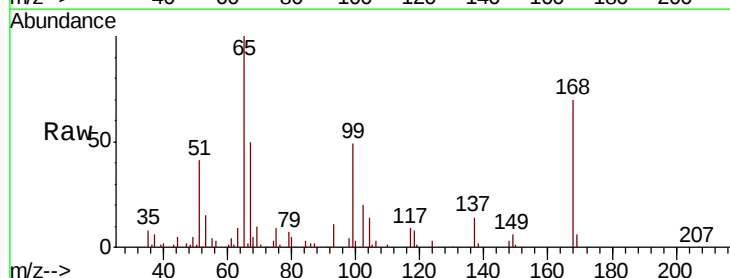
Acq: 20 Dec 2018 18:09

Tgt Ion: 65 Resp: 92187

Ion Ratio Lower Upper

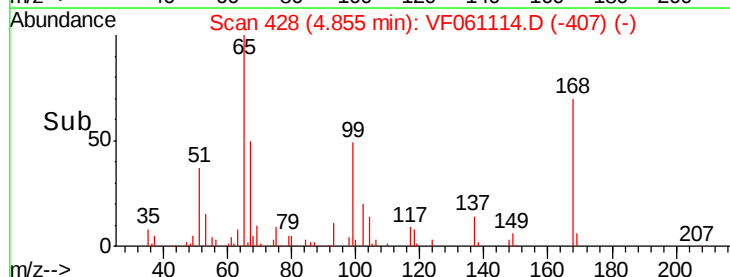
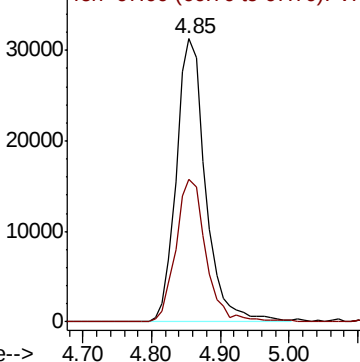
65 100

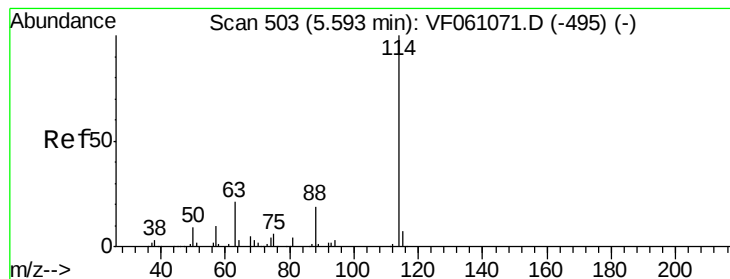
67 50.4 0.0 94.6



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: 5.60 min Scan# 504

Delta R.T. 0.01 min

Lab File: VF061114.D

Acq: 20 Dec 2018 18:09

Instrument :

MSVOA_F

ClientSampleId :

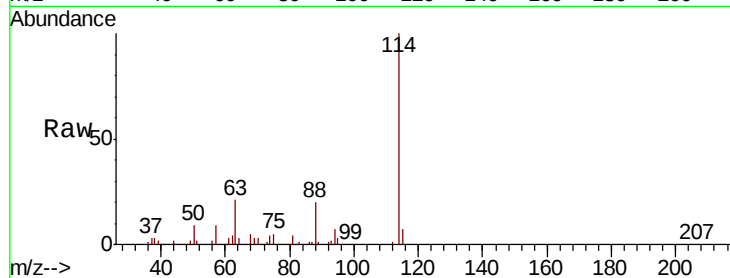
Tot Ion:114 Resp: 290180

Ion Ratio Lower Upper

114 100

63 21.3 0.0 41.6

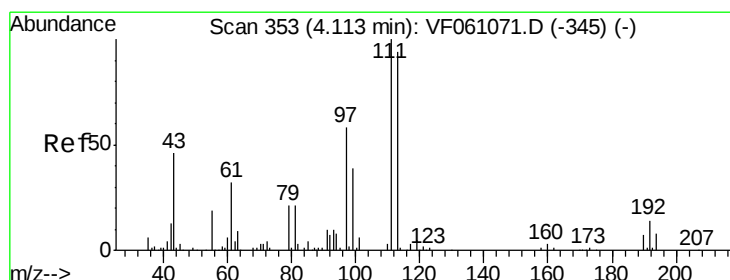
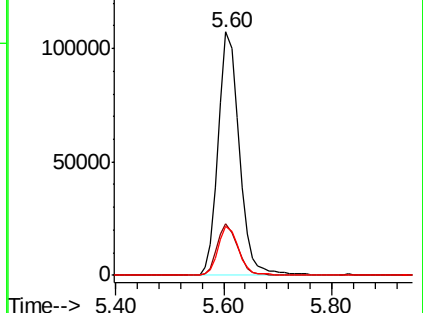
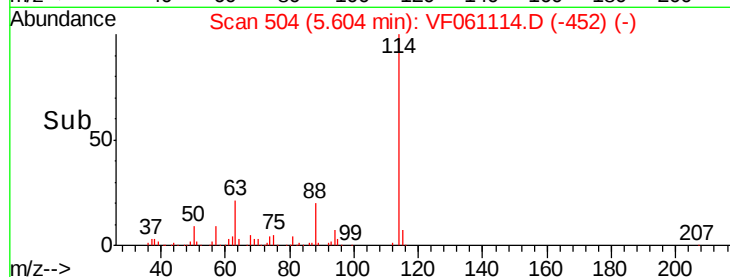
88 20.1 0.0 38.0



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: 43.290 ug/l

RT: 4.12 min Scan# 354

Delta R.T. 0.01 min

Lab File: VF061114.D

Acq: 20 Dec 2018 18:09

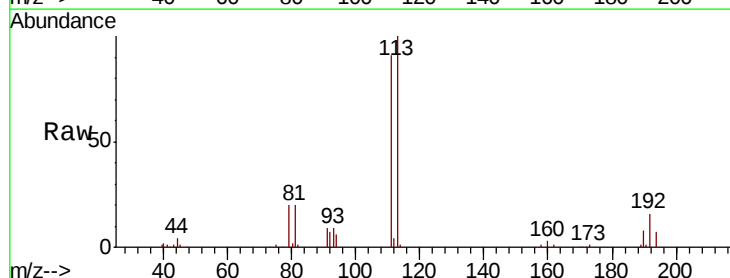
Tgt Ion:113 Resp: 100629

Ion Ratio Lower Upper

113 100

111 90.9 85.2 127.8

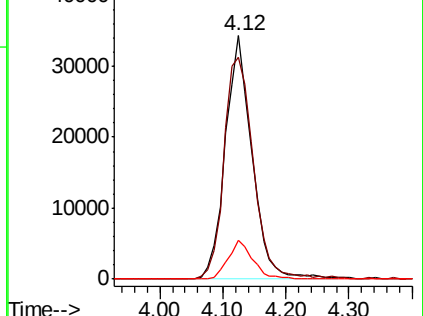
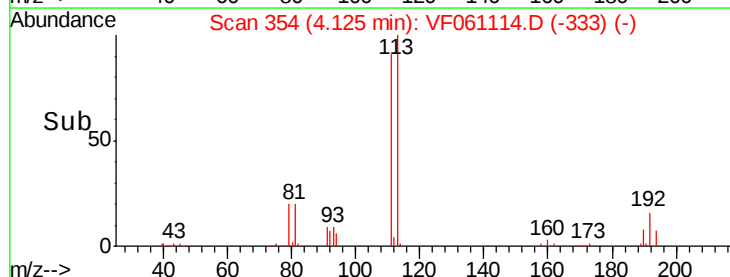
192 15.9 12.8 19.2

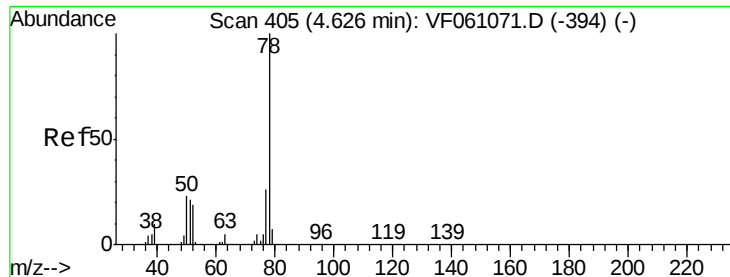


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#40

Benzene

Concen: 2.054 ug/l

RT: 4.65 min Scan# 407

Delta R.T. 0.02 min

Lab File: VF061114.D

Acq: 20 Dec 2018 18:09

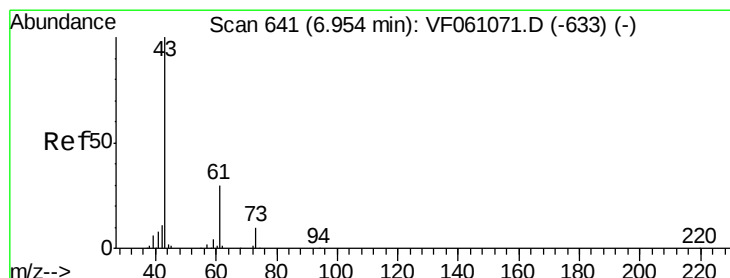
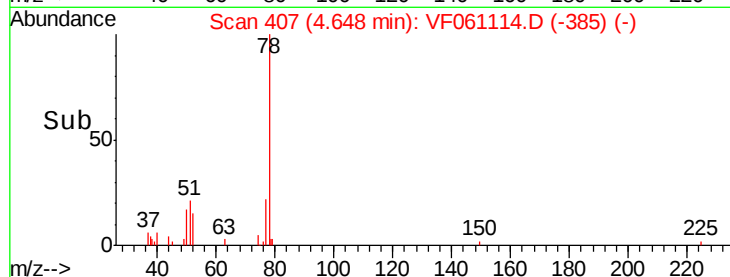
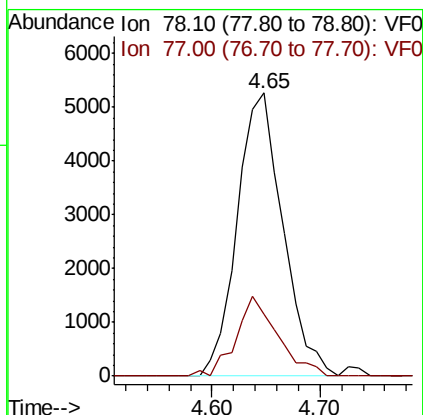
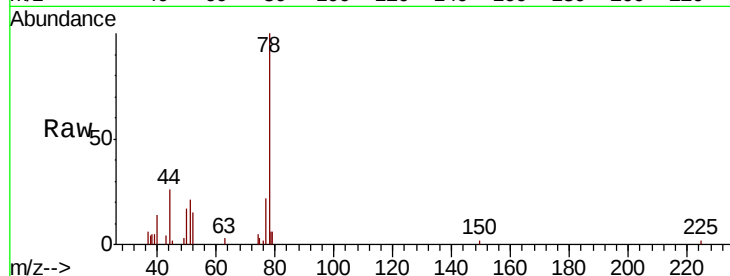
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 78 Resp: 15473

Ion Ratio Lower Upper

78 100

77 22.1 20.7 31.1



#43

Isopropyl Acetate

Concen: 10.081 ug/l

RT: 6.91 min Scan# 636

Delta R.T. -0.05 min

Lab File: VF061114.D

Acq: 20 Dec 2018 18:09

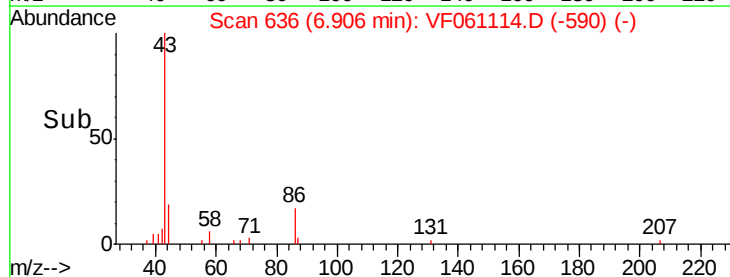
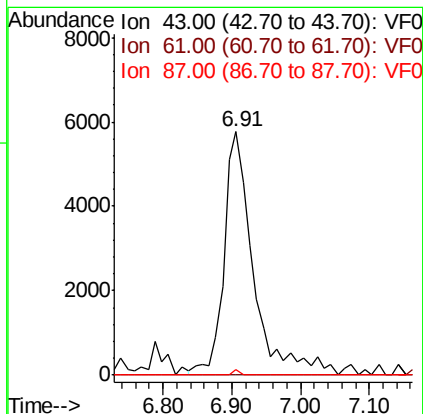
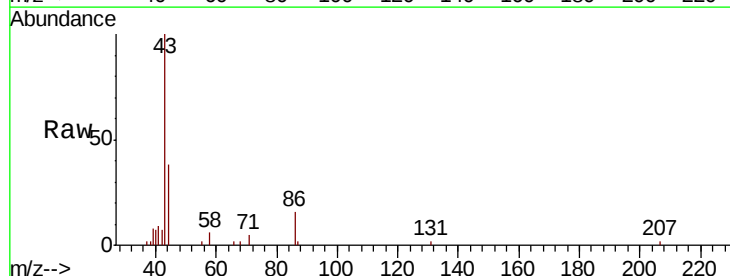
Tgt Ion: 43 Resp: 17050

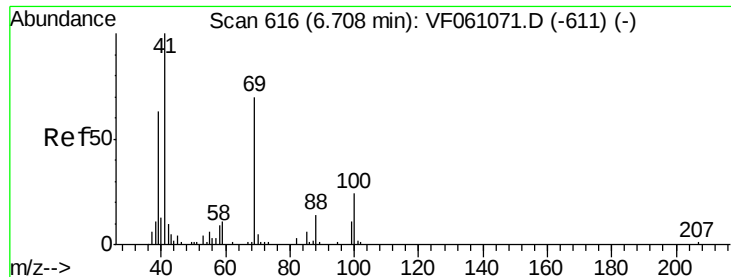
Ion Ratio Lower Upper

43 100

61 0.0 23.8 35.8#

87 2.5 0.0 0.0#





#49

1,4-Dioxane

Concen: 7.704 ug/l

RT: 6.79 min Scan# 624

Delta R.T. 0.08 min

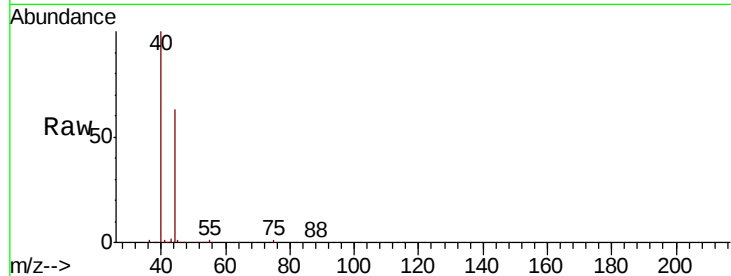
Lab File: VF061114.D

Acq: 20 Dec 2018 18:09

Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 88 Resp: 66

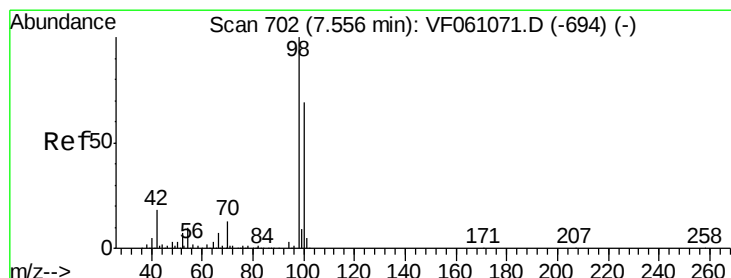
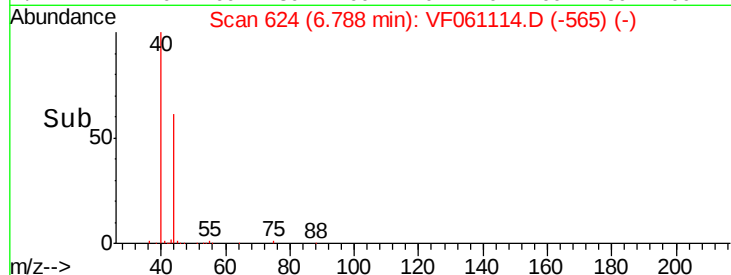
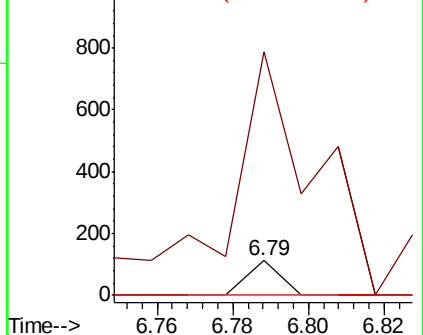
Ion	Ratio	Lower	Upper
88	100		
43	709.9	33.3	49.9#
58	0.0	53.2	79.8#



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: 33.133 ug/l

RT: 7.57 min Scan# 703

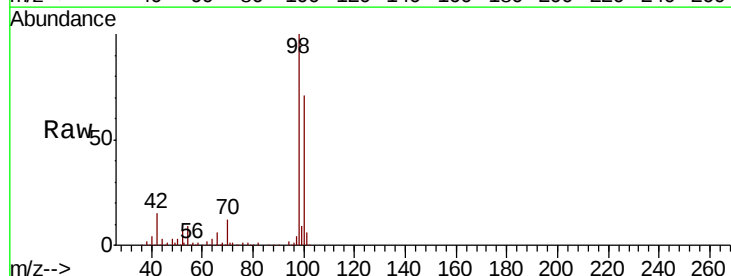
Delta R.T. 0.01 min

Lab File: VF061114.D

Acq: 20 Dec 2018 18:09

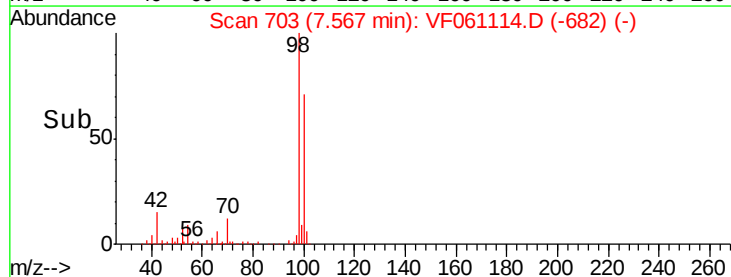
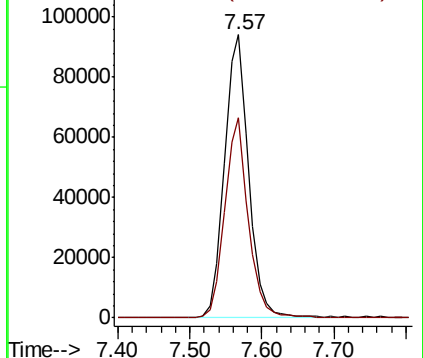
Tgt Ion: 98 Resp: 218261

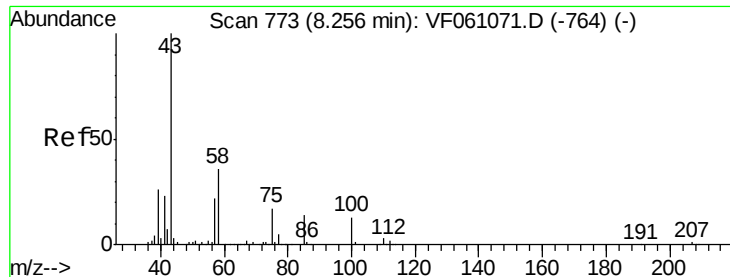
Ion	Ratio	Lower	Upper
98	100		
100	70.5	55.3	82.9



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: 1.554 ug/l

RT: 8.27 min Scan# 774

Delta R.T. 0.01 min

Lab File: VF061114.D

Acq: 20 Dec 2018 18:09

Instrument :

MSVOA_F

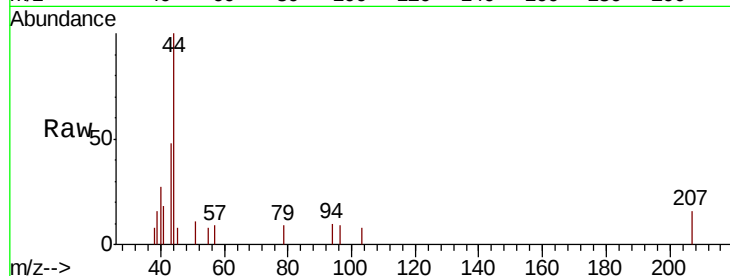
ClientSampled :

Tot Ion: 43 Resp: 1803

Ion Ratio Lower Upper

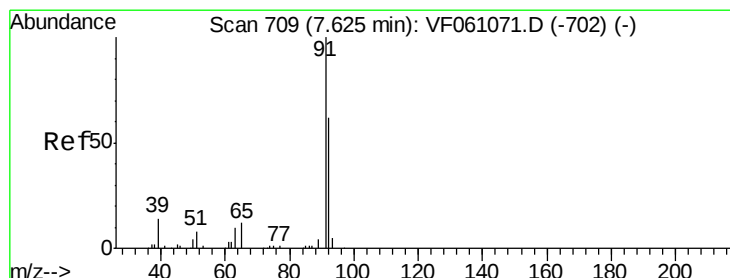
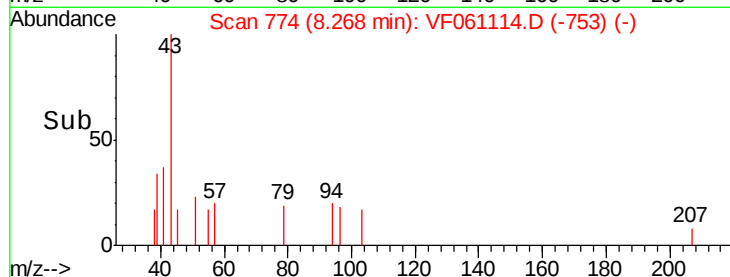
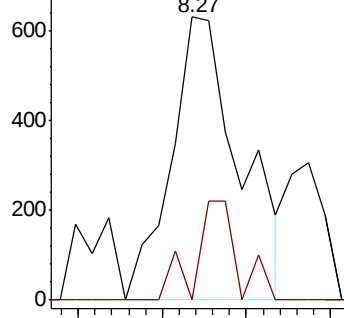
43 100

58 0.0 29.1 43.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 1.270 ug/l

RT: 7.63 min Scan# 709

Delta R.T. 0.00 min

Lab File: VF061114.D

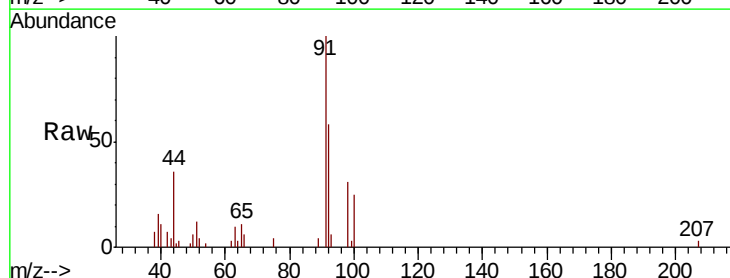
Acq: 20 Dec 2018 18:09

Tgt Ion: 92 Resp: 6330

Ion Ratio Lower Upper

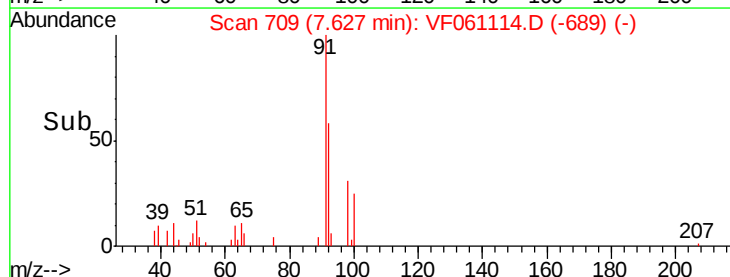
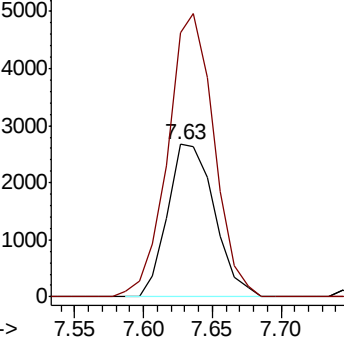
92 100

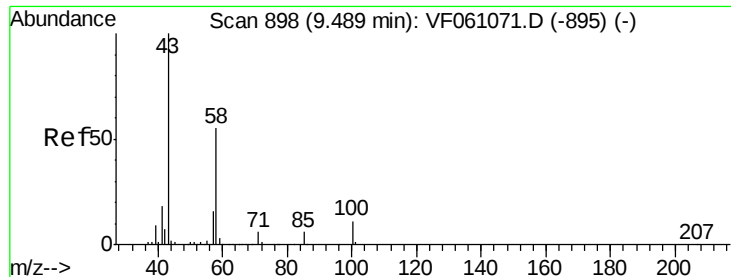
91 173.8 128.8 193.2



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

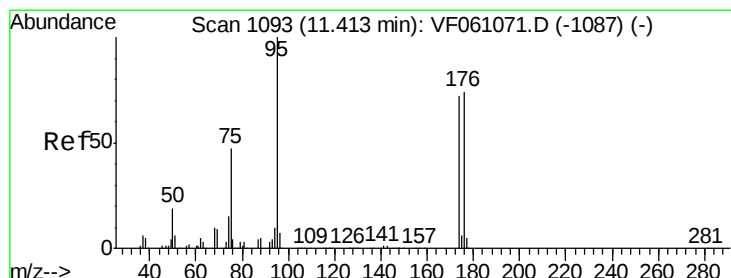
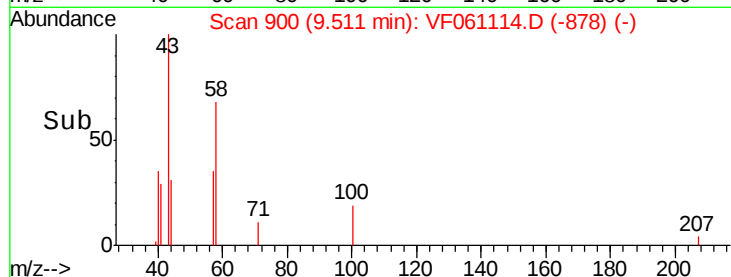
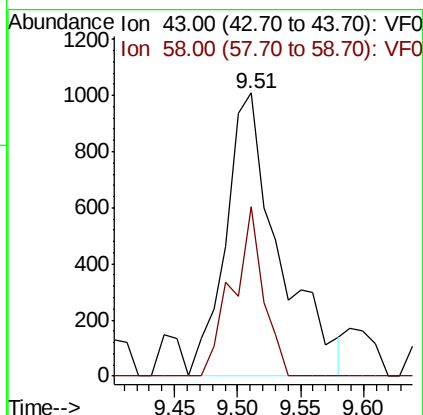
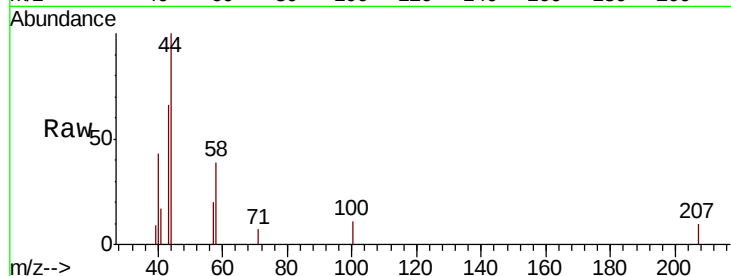




#59
2-Hexanone
Concen: 3.524 ug/l
RT: 9.51 min Scan# 900
Delta R.T. 0.02 min
Lab File: VF061114.D
Acq: 20 Dec 2018 18:09

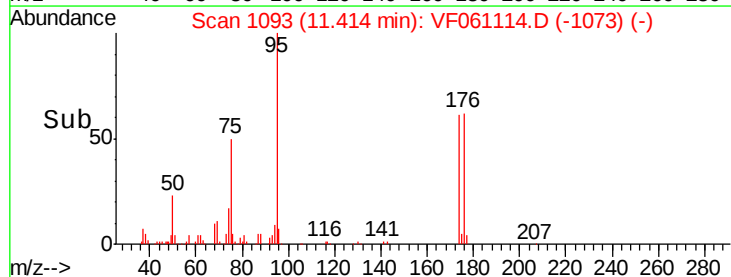
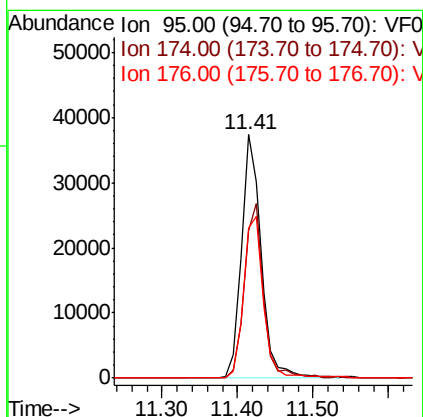
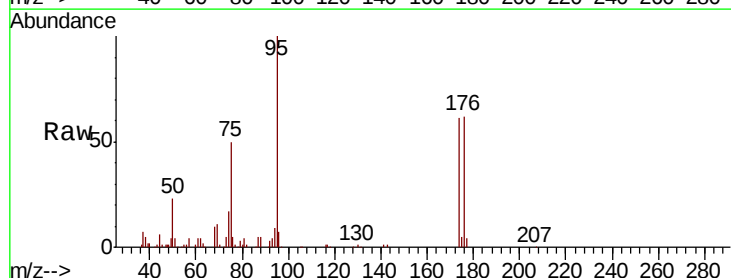
Instrument :
MSVOA_F
ClientSampleId :

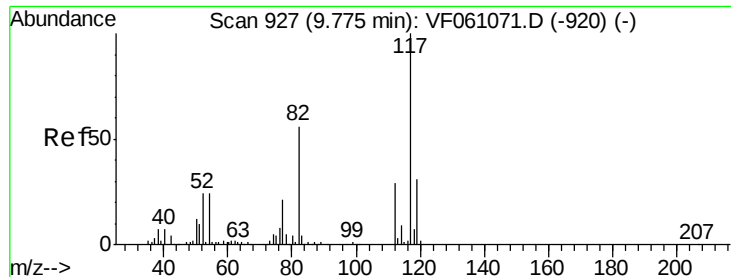
Tot Ion: 43 Resp: 2956
Ion Ratio Lower Upper
43 100
58 59.8 25.1 75.2



#62
4-Bromofluorobenzene
Concen: 21.961 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. 0.00 min
Lab File: VF061114.D
Acq: 20 Dec 2018 18:09

Tgt Ion: 95 Resp: 66692
Ion Ratio Lower Upper
95 100
174 60.8 0.0 143.8
176 61.5 0.0 147.6

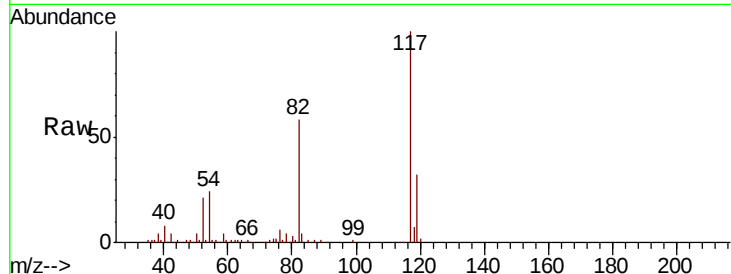




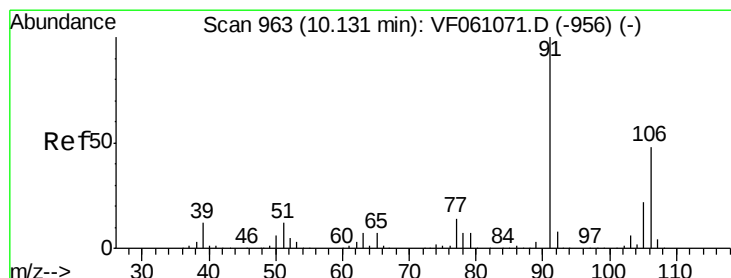
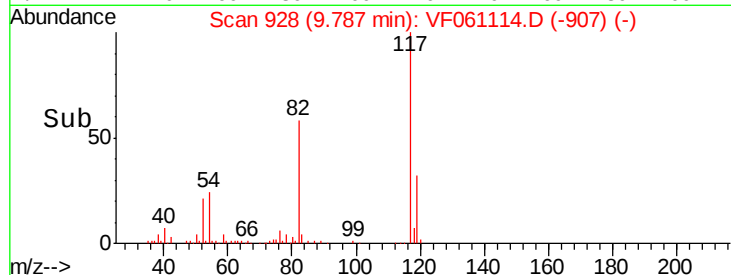
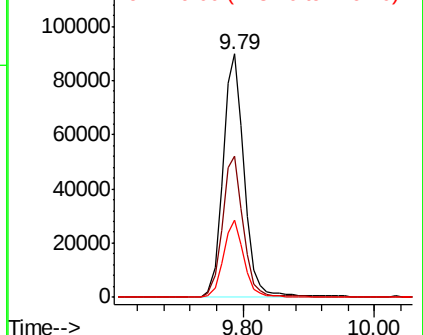
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.79 min Scan# 928
Delta R.T. 0.01 min
Lab File: VF061114.D
Acq: 20 Dec 2018 18:09

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:117 Resp: 201934
Ion Ratio Lower Upper
117 100
82 58.0 45.0 67.4
119 31.8 24.8 37.2

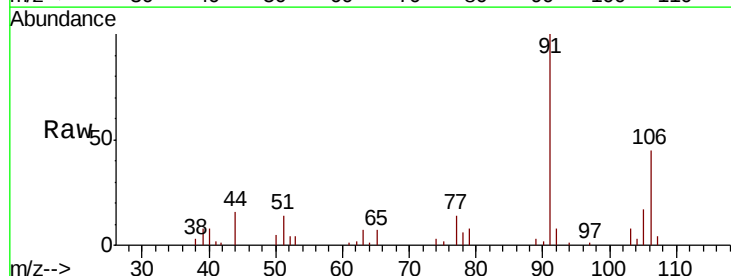


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

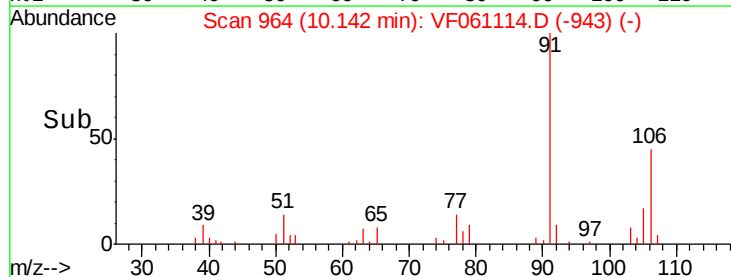
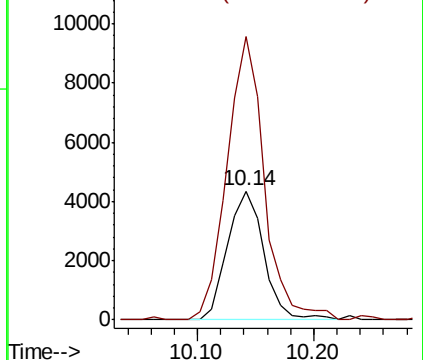


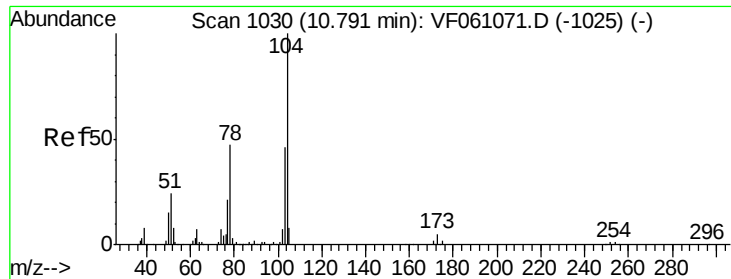
#68
m/p-Xylenes
Concen: 3.538 ug/l
RT: 10.14 min Scan# 964
Delta R.T. 0.01 min
Lab File: VF061114.D
Acq: 20 Dec 2018 18:09

Tgt Ion:106 Resp: 9463
Ion Ratio Lower Upper
106 100
91 219.9 168.2 252.2



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





#70

Stvrene

Concen: Below Cal

RT: 10.80 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VF061114.D

Acq: 20 Dec 2018 18:09

Instrument :

MSVOA_F

ClientSampleId :

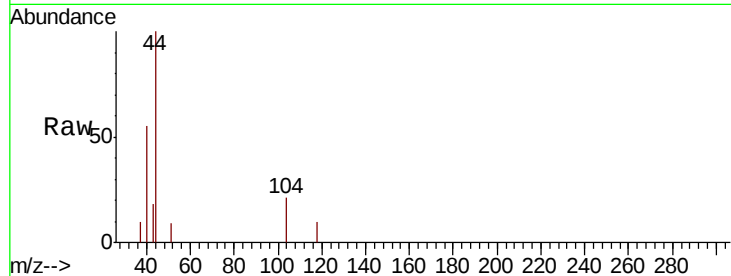
Tot Ion:104 Resp: 244

Ion Ratio Lower Upper

104 100

78 0.0 38.4 57.6#

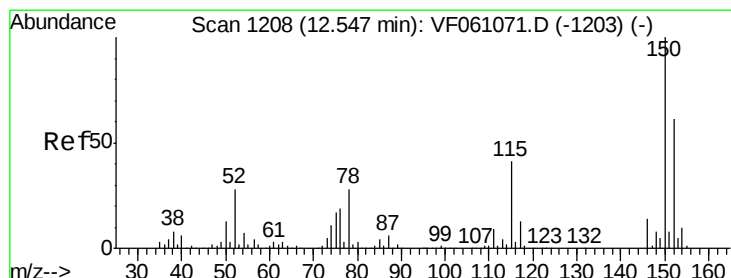
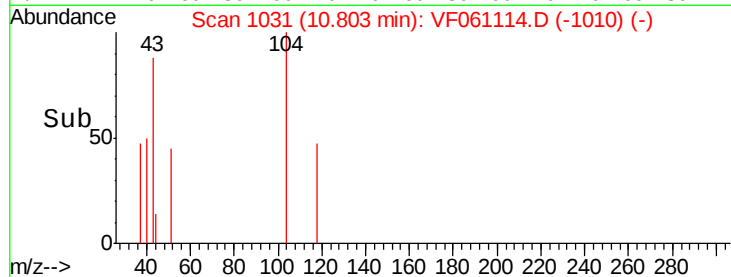
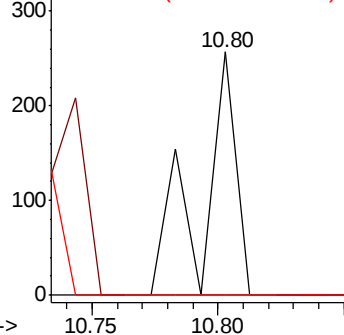
103 0.0 37.0 55.6#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VF0

Ion 103.00 (102.70 to 103.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.56 min Scan# 1209

Delta R.T. 0.01 min

Lab File: VF061114.D

Acq: 20 Dec 2018 18:09

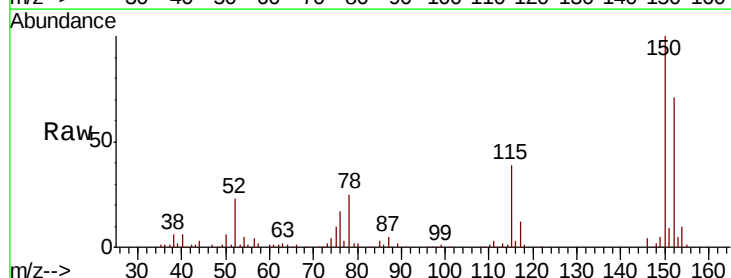
Tgt Ion:152 Resp: 61407

Ion Ratio Lower Upper

152 100

115 55.7 33.3 99.9

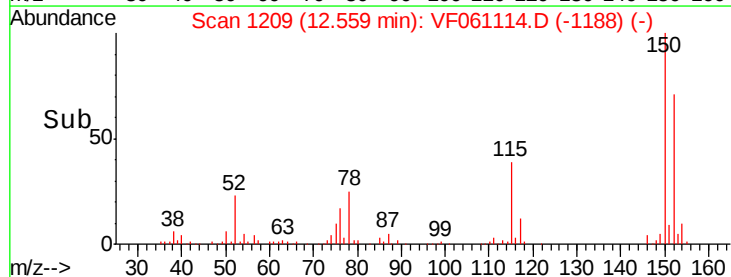
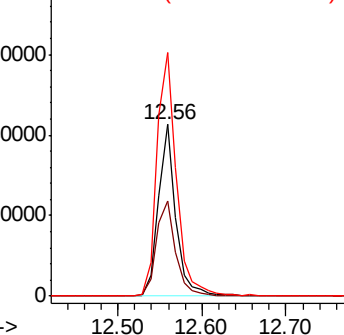
150 141.7 0.0 328.2

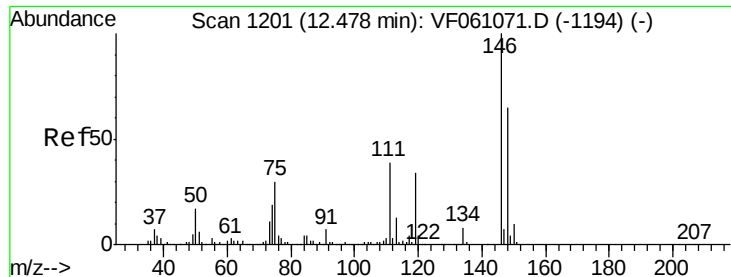


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 12.48 min Scan# 1201

Delta R.T. 0.00 min

Lab File: VF061114.D

Acq: 20 Dec 2018 18:09

Instrument :

MSVOA_F

ClientSampled :

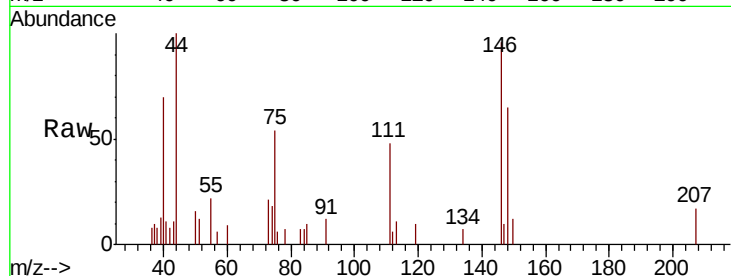
Tot Ion:146 Resp: 2349

Ion Ratio Lower Upper

146 100

111 50.2 19.3 57.9

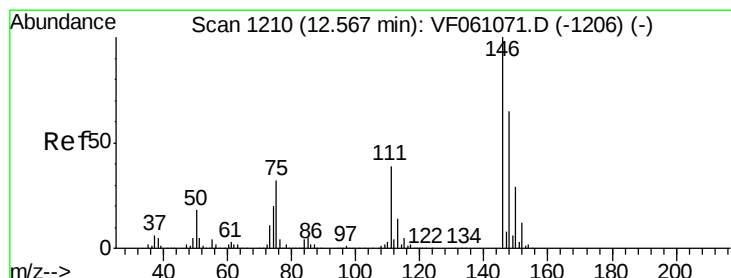
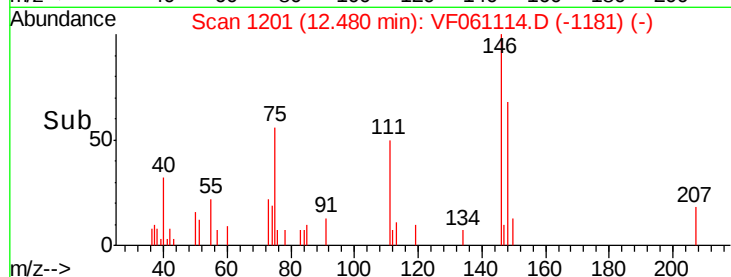
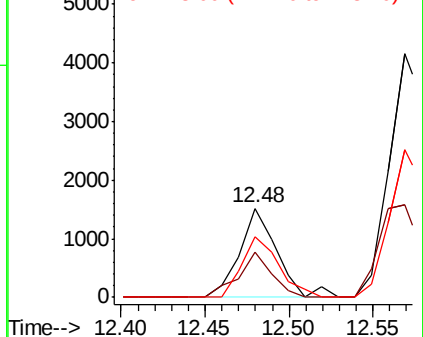
148 68.1 32.4 97.2



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



#88

1,4-Dichlorobenzene

Concen: 3.349 ug/l

RT: 12.57 min Scan# 1210

Delta R.T. 0.00 min

Lab File: VF061114.D

Acq: 20 Dec 2018 18:09

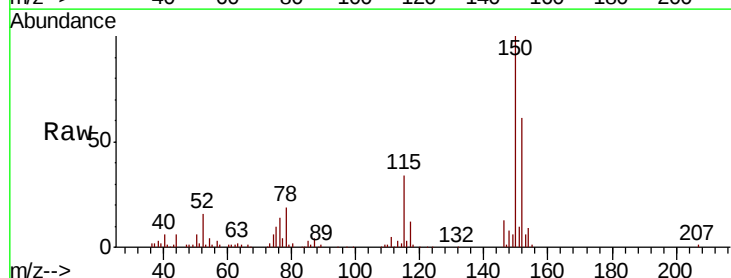
Tgt Ion:146 Resp: 7005

Ion Ratio Lower Upper

146 100

111 38.0 19.4 58.4

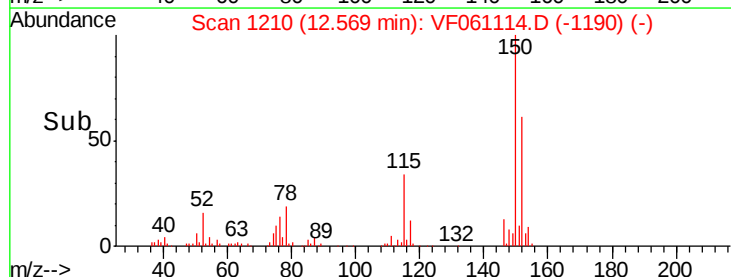
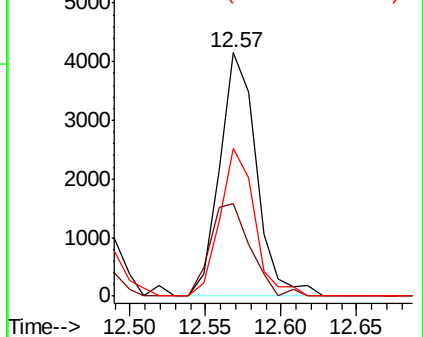
148 60.8 32.4 97.0

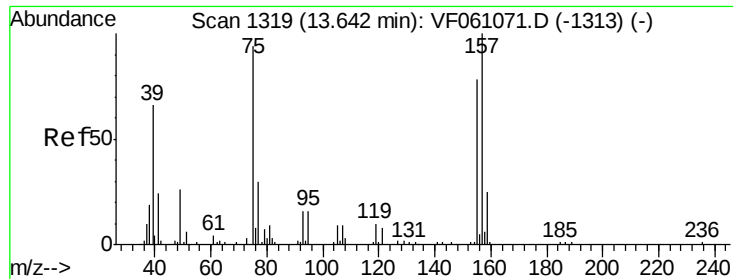


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.489 ug/l

RT: 13.67 min Scan# 1322

Delta R.T. 0.03 min

Lab File: VF061114.D

Acq: 20 Dec 2018 18:09

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion: 75 Resp: 240

Ion Ratio Lower Upper

75 100

155 0.0 41.5 124.5#

157 0.0 53.2 159.6#

