

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF122418\
 Data File : VF061172.D
 Acq On : 24 Dec 2018 18:34
 Operator : VA/AP
 Sample : J6389-09RE
 Misc : 4.87g/5mL/MSVOA-F/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 24 23:49:06 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	155578	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	263100	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	169253	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	47984	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.85	65	98657	49.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.60%	
35) Dibromofluoromethane	4.12	113	105692	50.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.30%	
50) Toluene-d8	7.56	98	228297	38.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	76.44%	
62) 4-Bromofluorobenzene	11.41	95	66655	24.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	48.42%	

Target Compounds

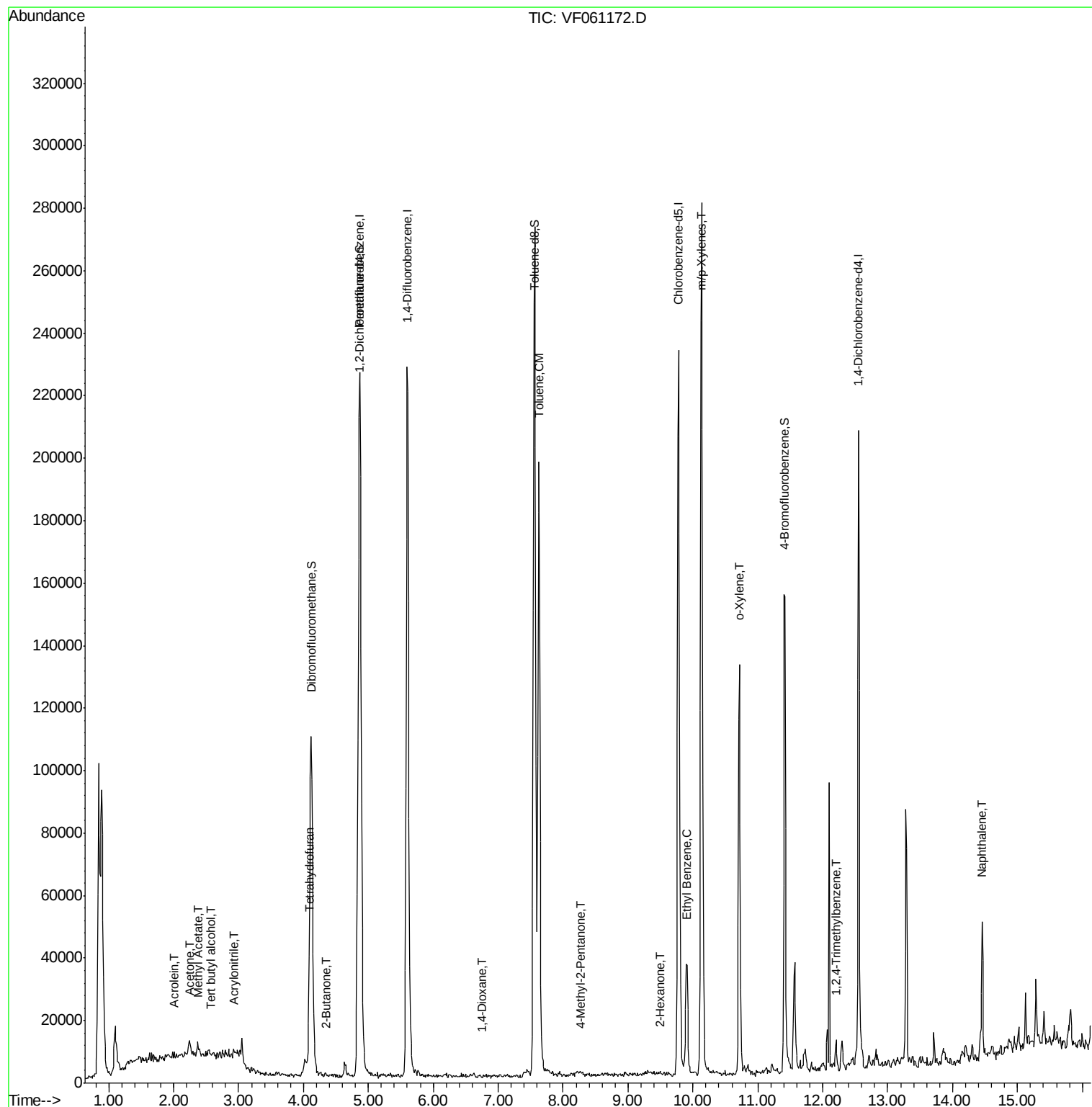
						Qvalue
11) Tert butyl alcohol	2.57	59	185	2.291	ug/l #	65
13) Acrolein	2.00	56	444	7.609	ug/l #	52
15) Acrylonitrile	2.91	53	724	3.877	ug/l #	36
16) Acetone	2.23	43	8404	21.009	ug/l	94
18) Methyl Acetate	2.36	43	1163	1.405	ug/l #	66
20) Methylene Chloride	2.24	84	382	Below Cal	#	1
25) 2-Butanone	4.35	43	714	1.101	ug/l #	57
29) Tetrahydrofuran	4.08	42	562	2.128	ug/l #	68
49) 1,4-Dioxane	6.75	88	60	7.724	ug/l #	23
51) 4-Methyl-2-Pentanone	8.28	43	1477	1.404	ug/l #	38
52) Toluene	7.63	92	112306	24.842	ug/l	95
59) 2-Hexanone	9.50	43	1439	1.892	ug/l #	61
67) Ethyl Benzene	9.91	91	33605	5.275	ug/l	94
68) m/p-Xylenes	10.14	106	100140	44.670	ug/l	91
69) o-Xylene	10.72	106	39183	15.760	ug/l	93
70) Styrene	10.80	104	557	Below Cal	#	80
84) 1,2,4-Trimethylbenzene	12.21	105	3956	1.165	ug/l	97
87) 1,3-Dichlorobenzene	12.48	146	188	Below Cal	#	25
95) Naphthalene	14.46	128	16968	8.234	ug/l	97

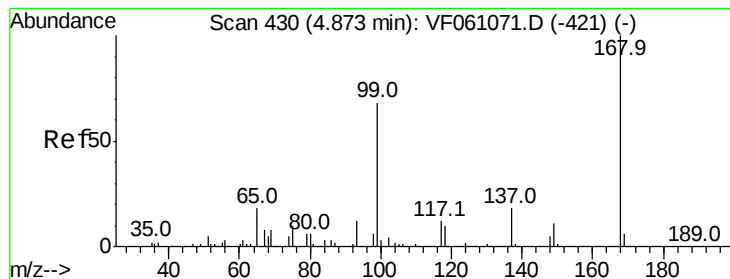
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VF061172.D

Acq: 24 Dec 2018 18:34

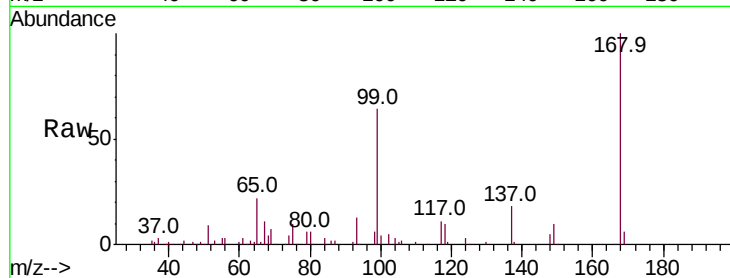
Instrument :
MSVOA_F
ClientSampled :

Tot Ion:168 Resp: 155578

Ion Ratio Lower Upper

168 100

99 64.0 54.4 81.6



Abundance Ion 168.00 (167.70 to 168.70): VF061172.D (-410) (-)

Ion 99.00 (98.70 to 99.70): VF061172.D (-410) (-)

4.88

60000

50000

40000

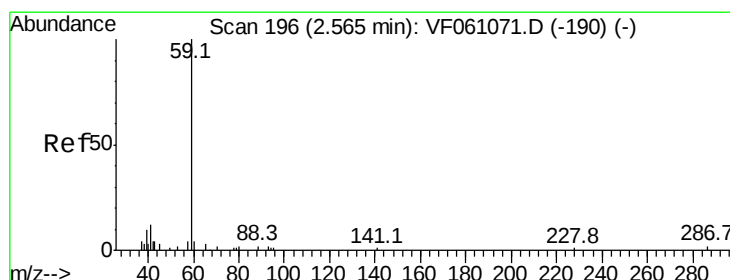
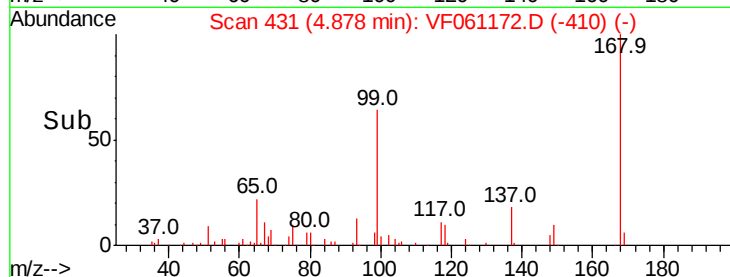
30000

20000

10000

0

Time-->



#11

Tert butyl alcohol

Concen: 2.291 ug/l

RT: 2.57 min Scan# 197

Delta R.T. 0.00 min

Lab File: VF061172.D

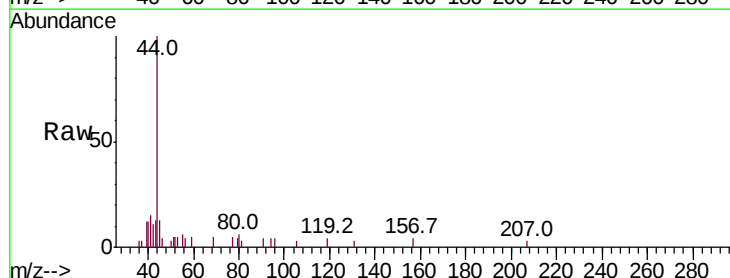
Acq: 24 Dec 2018 18:34

Tgt Ion: 59 Resp: 185

Ion Ratio Lower Upper

59 100

57 0.0 11.5 17.3#



Abundance Ion 59.00 (58.70 to 59.70): VF061172.D (-176) (-)

Ion 57.00 (56.70 to 57.70): VF061172.D (-176) (-)

2.57

300

250

200

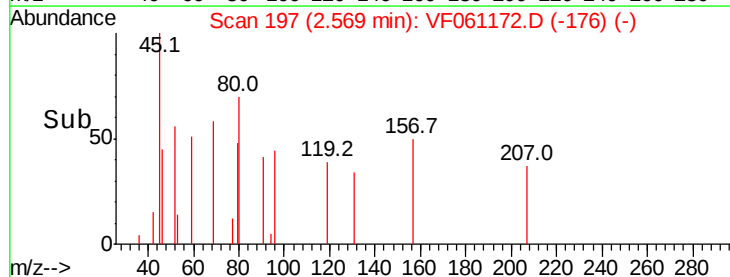
150

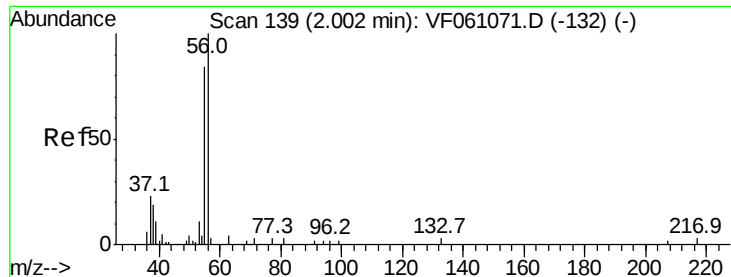
100

50

0

Time-->





#13

Acrolein

Concen: 7.609 ug/l

RT: 2.00 min Scan# 139

Delta R.T. -0.00 min

Lab File: VF061172.D

Acq: 24 Dec 2018 18:34

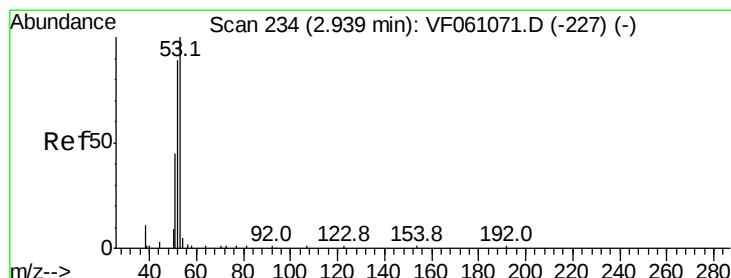
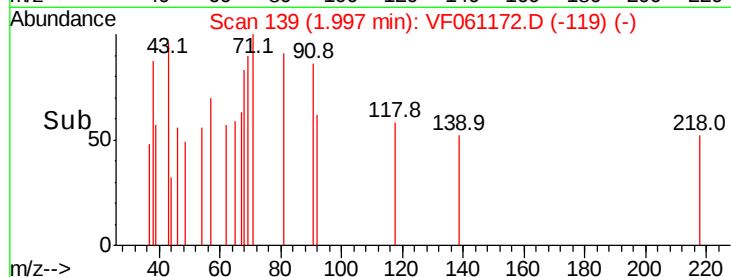
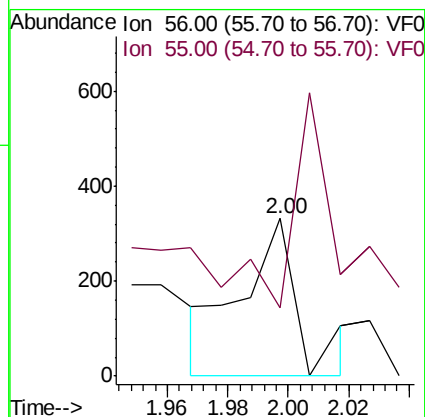
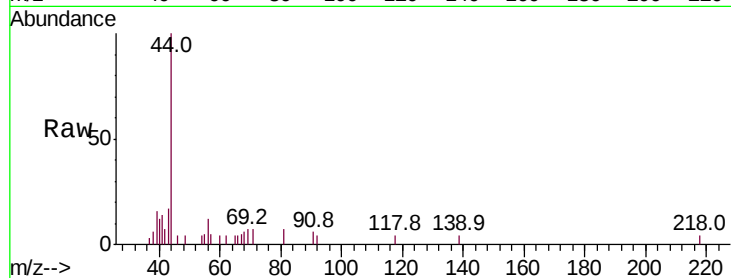
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 56 Resp: 444

Ion Ratio Lower Upper

56 100

55 43.4 70.2 105.2#



#15

Acrylonitrile

Concen: 3.877 ug/l

RT: 2.91 min Scan# 232

Delta R.T. -0.02 min

Lab File: VF061172.D

Acq: 24 Dec 2018 18:34

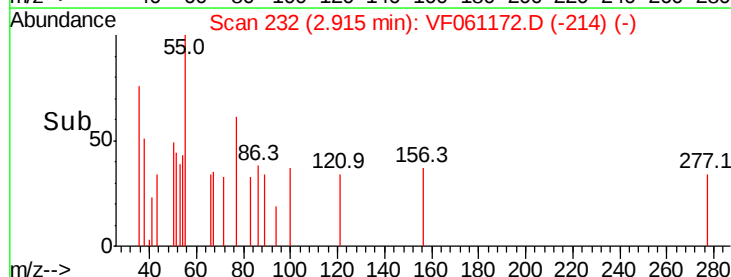
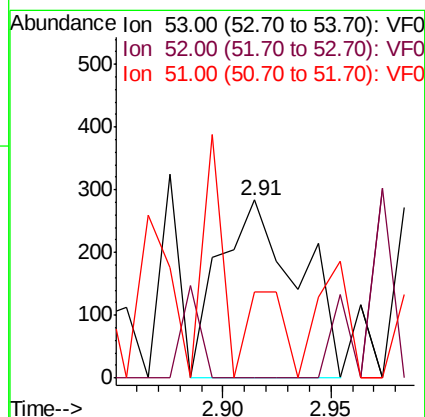
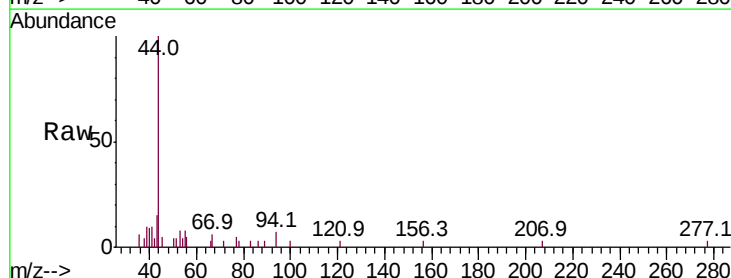
Tgt Ion: 53 Resp: 724

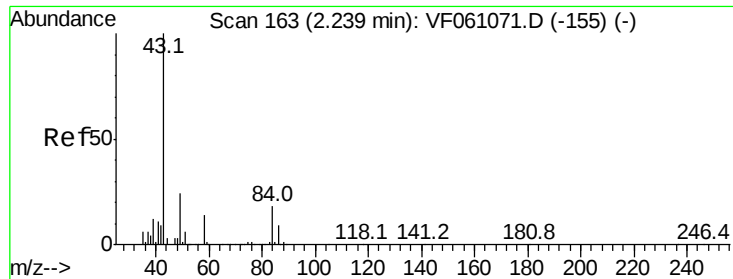
Ion Ratio Lower Upper

53 100

52 0.0 71.3 106.9#

51 48.8 36.8 55.2

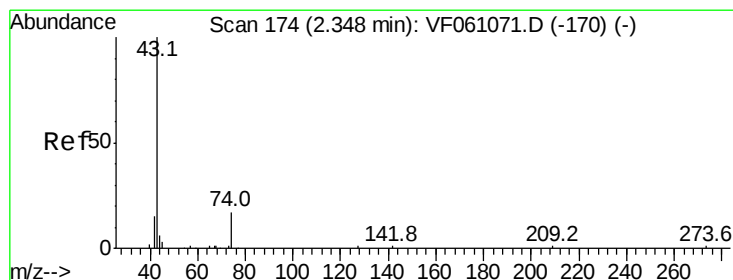
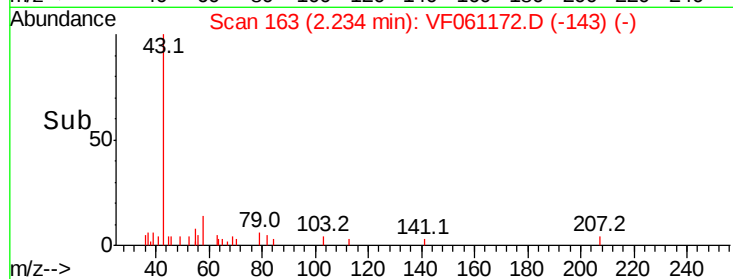
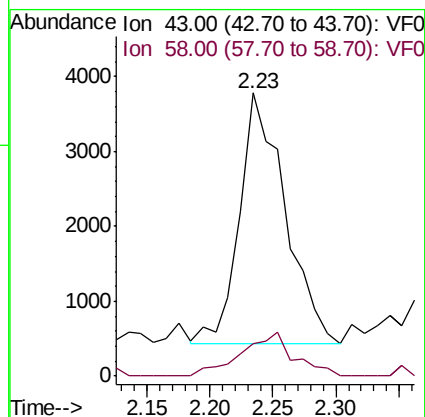
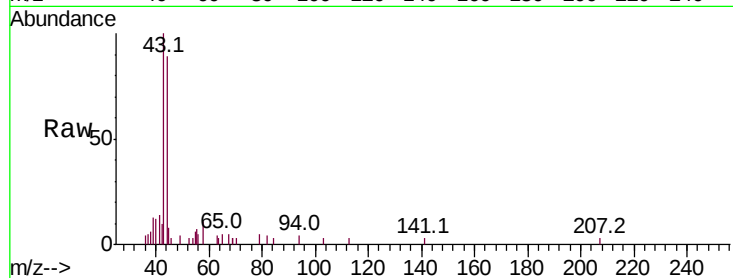




#16
Acetone
Concen: 21.009 ug/l
RT: 2.23 min Scan# 163
Delta R.T. -0.01 min
Lab File: VF061172.D
Acq: 24 Dec 2018 18:34

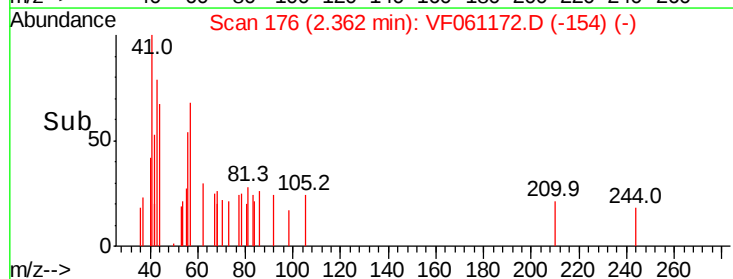
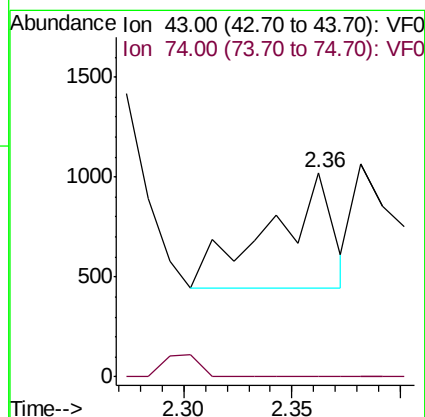
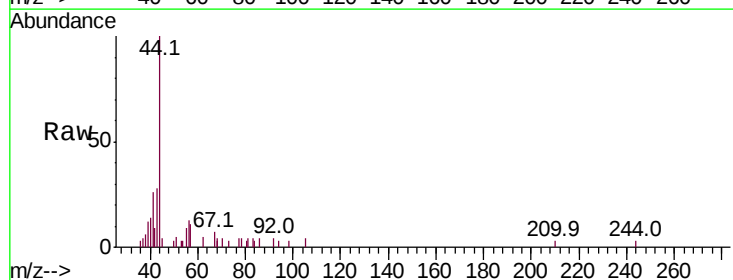
Instrument :
MSVOA_F
ClientSampleId :

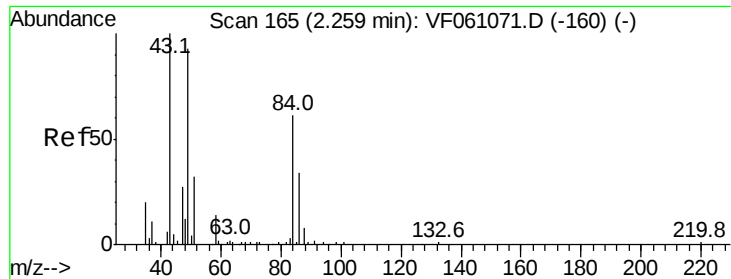
Tot Ion: 43 Resp: 8404
Ion Ratio Lower Upper
43 100
58 11.4 11.1 16.7



#18
Methyl Acetate
Concen: 1.405 ug/l
RT: 2.36 min Scan# 176
Delta R.T. 0.01 min
Lab File: VF061172.D
Acq: 24 Dec 2018 18:34

Tgt Ion: 43 Resp: 1163
Ion Ratio Lower Upper
43 100
74 0.0 11.0 16.6#





#20

Methvlene Chloride

Concen: Below Cal

RT: 2.24 min Scan# 164

Delta R.T. -0.01 min

Lab File: VF061172.D

Acq: 24 Dec 2018 18:34

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 84 Resp: 382

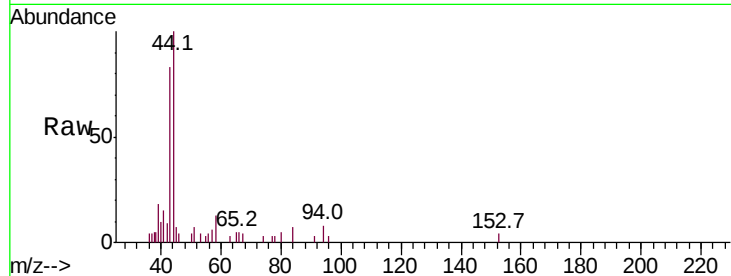
Ion Ratio Lower Upper

84 100

49 0.0 129.4 194.2#

51 104.1 44.0 66.0#

86 0.0 46.3 69.5#

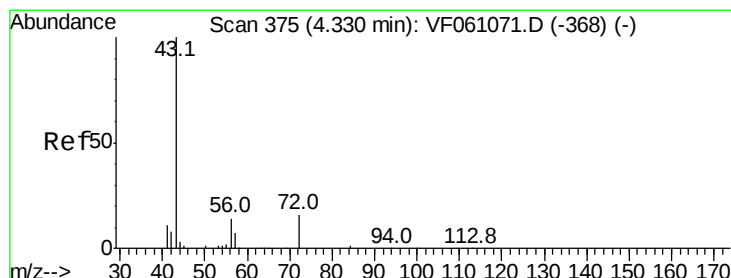
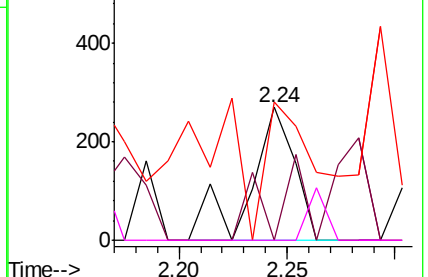
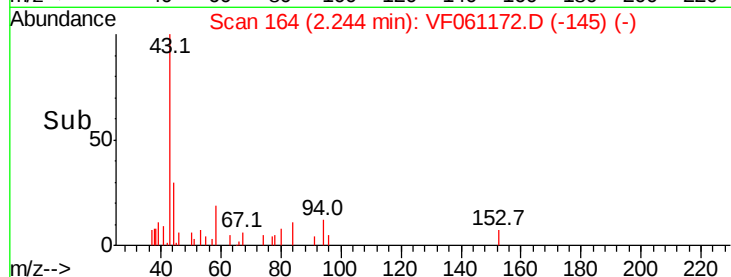


Abundance Ion 84.00 (83.70 to 84.70): VF0

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: 1.101 ug/l

RT: 4.35 min Scan# 377

Delta R.T. 0.01 min

Lab File: VF061172.D

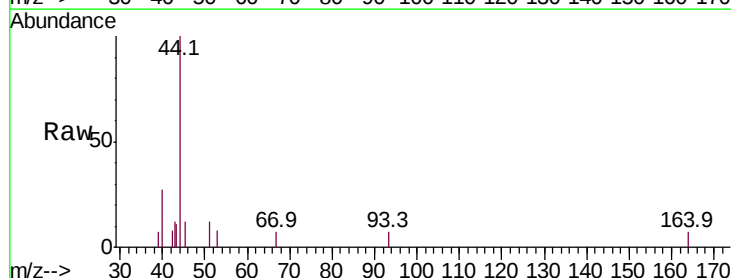
Acq: 24 Dec 2018 18:34

Tgt Ion: 43 Resp: 714

Ion Ratio Lower Upper

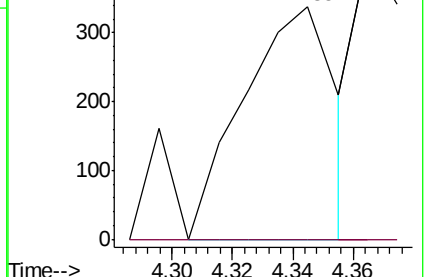
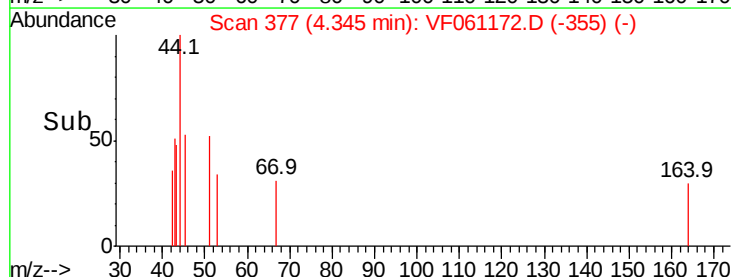
43 100

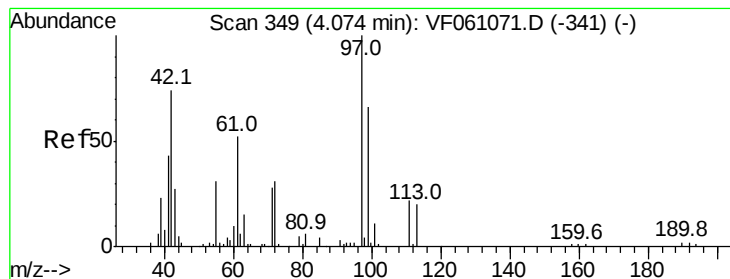
72 0.0 15.6 23.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0





#29

Tetrahydrofuran

Concen: 2.128 ug/l

RT: 4.08 min Scan# 350

Delta R.T. 0.00 min

Lab File: VF061172.D

Acq: 24 Dec 2018 18:34

Instrument :
MSVOA_F
ClientSampled :

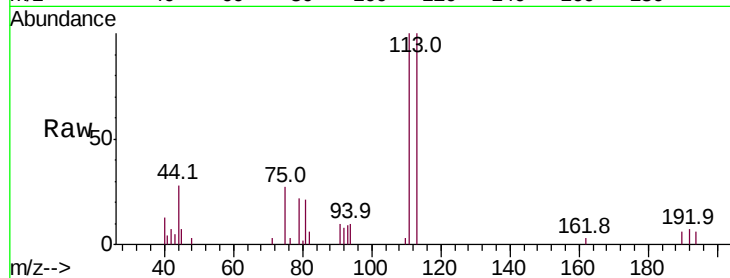
Tot Ion: 42 Resp: 562

Ion Ratio Lower Upper

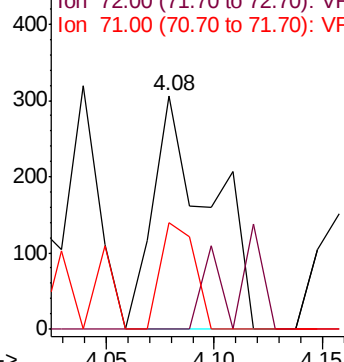
42 100

72 11.6 31.8 47.8#

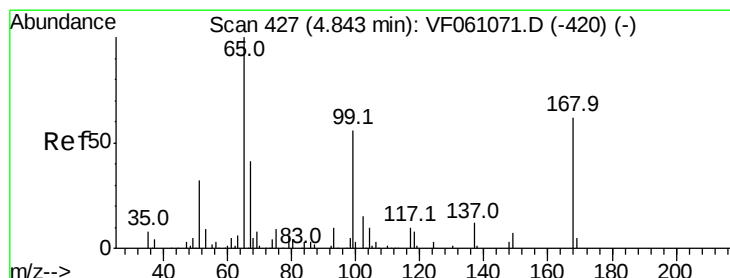
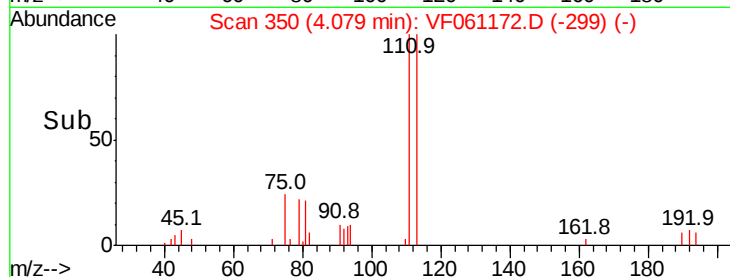
71 27.4 29.7 44.5#



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



Time-->



#33

1,2-Dichloroethane-d4

Concen: 49.304 ug/l

RT: 4.85 min Scan# 428

Delta R.T. 0.00 min

Lab File: VF061172.D

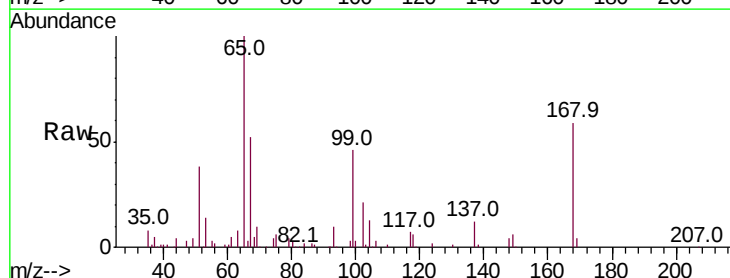
Acq: 24 Dec 2018 18:34

Tgt Ion: 65 Resp: 98657

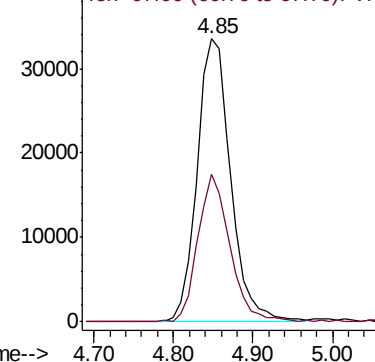
Ion Ratio Lower Upper

65 100

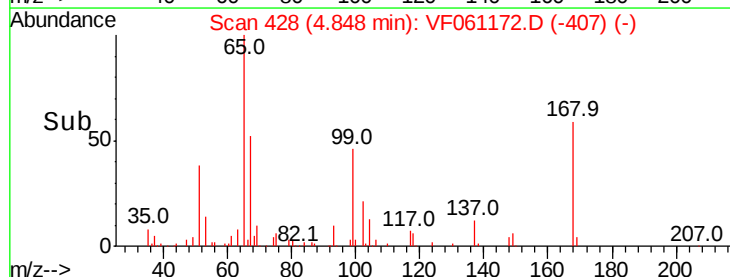
67 52.3 0.0 94.6

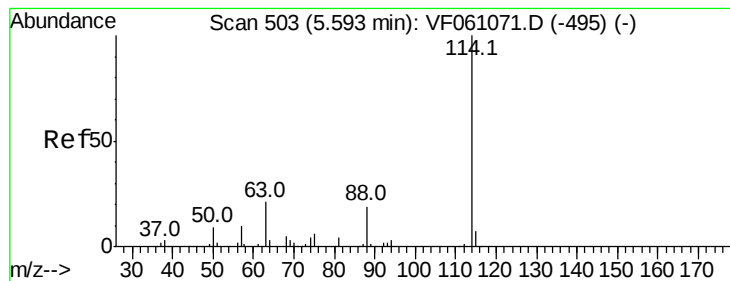


Abundance Ion 65.00 (64.70 to 65.70): VF0
Ion 67.00 (66.70 to 67.70): VF0



Time-->





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. 0.00 min

Lab File: VF061172.D

Acq: 24 Dec 2018 18:34

Instrument :
MSVOA_F
ClientSampleId :

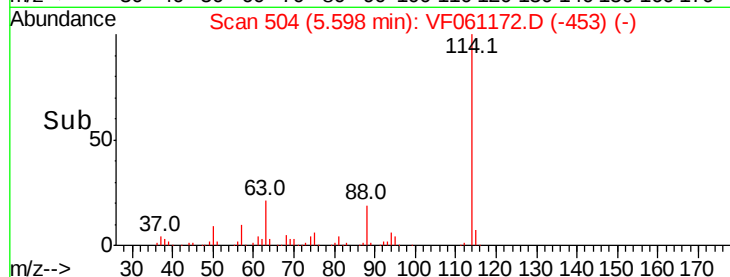
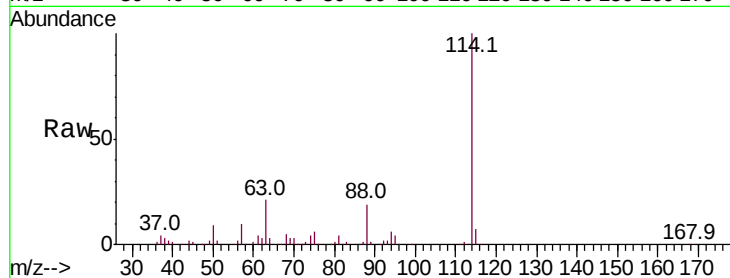
Tot Ion:114 Resp: 263100

Ion Ratio Lower Upper

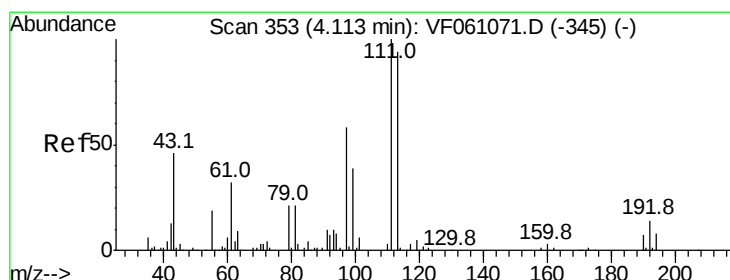
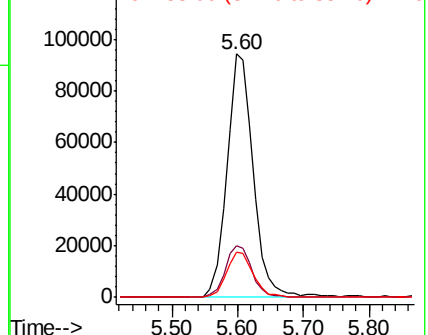
114 100

63 21.3 0.0 41.6

88 18.7 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: 50.148 ug/l

RT: 4.12 min Scan# 354

Delta R.T. 0.00 min

Lab File: VF061172.D

Acq: 24 Dec 2018 18:34

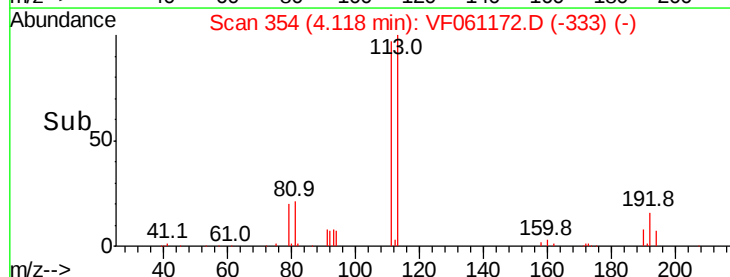
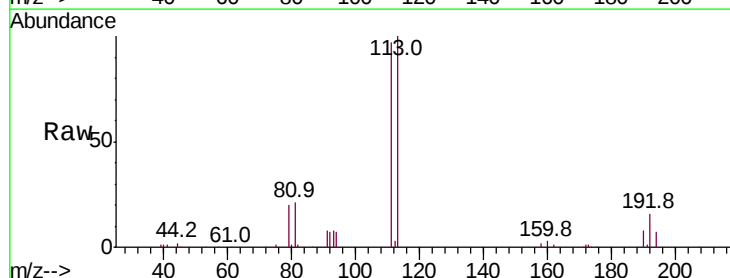
Tgt Ion:113 Resp: 105692

Ion Ratio Lower Upper

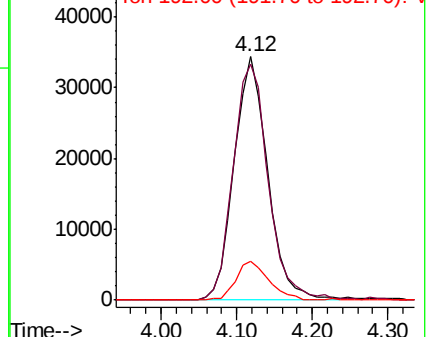
113 100

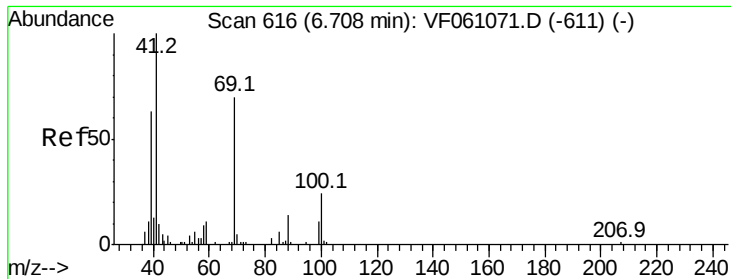
111 97.2 85.2 127.8

192 16.1 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





#49

1,4-Dioxane

Concen: 7.724 ug/l

RT: 6.75 min Scan# 621

Delta R.T. 0.04 min

Lab File: VF061172.D

Acq: 24 Dec 2018 18:34

Instrument :
MSVOA_F
ClientSampleId :

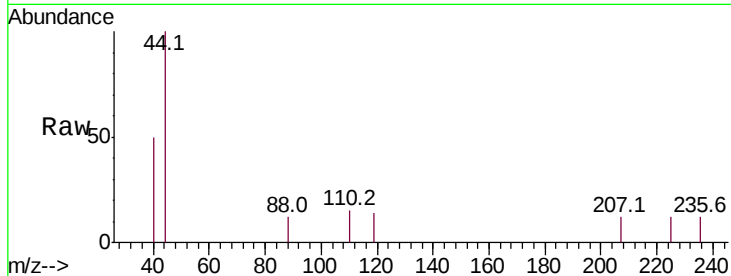
Tot Ion: 88 Resp: 60

Ion Ratio Lower Upper

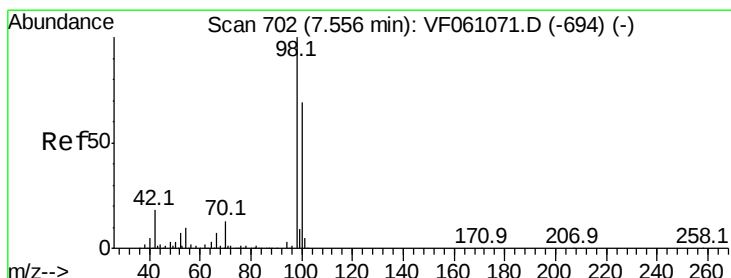
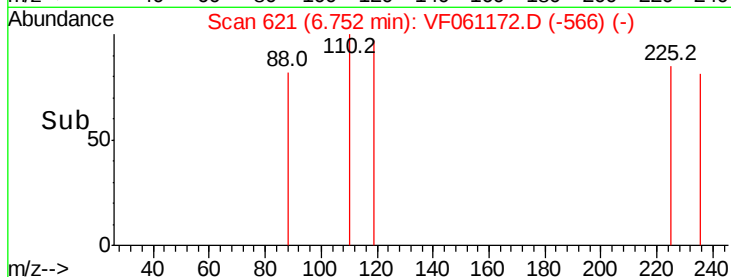
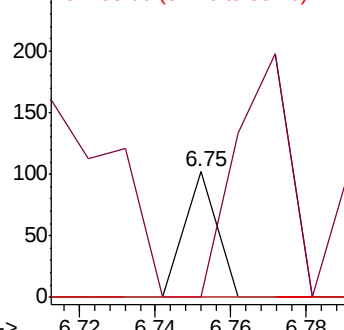
88 100

43 0.0 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: 38.224 ug/l

RT: 7.56 min Scan# 703

Delta R.T. 0.00 min

Lab File: VF061172.D

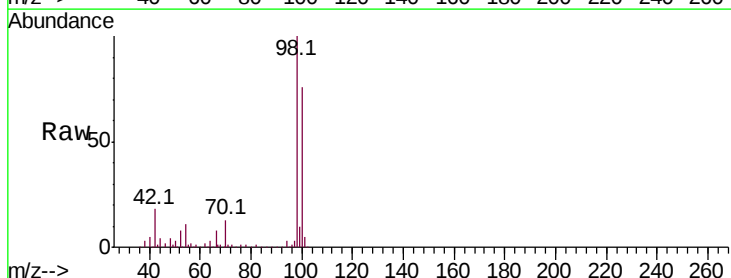
Acq: 24 Dec 2018 18:34

Tgt Ion: 98 Resp: 228297

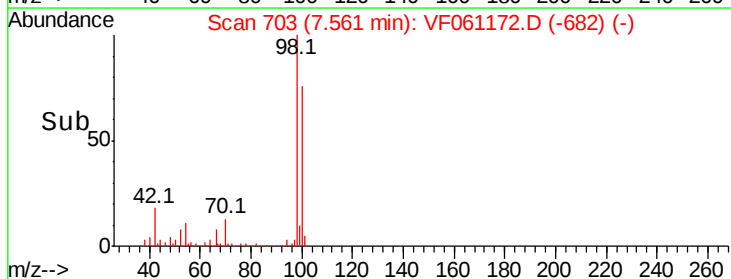
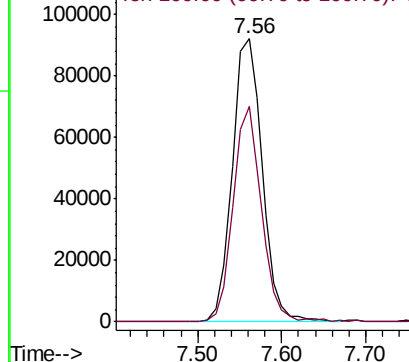
Ion Ratio Lower Upper

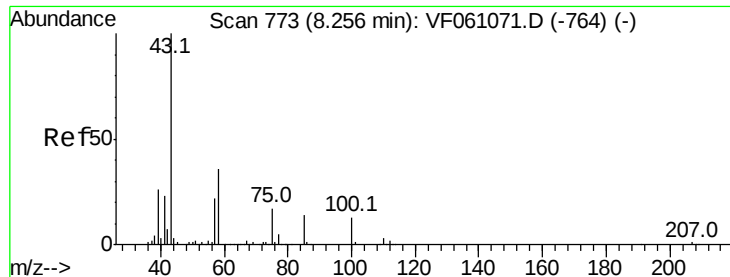
98 100

100 76.3 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: 1.404 ug/l

RT: 8.28 min Scan# 776

Delta R.T. 0.02 min

Lab File: VF061172.D

Acq: 24 Dec 2018 18:34

Instrument :

MSVOA_F

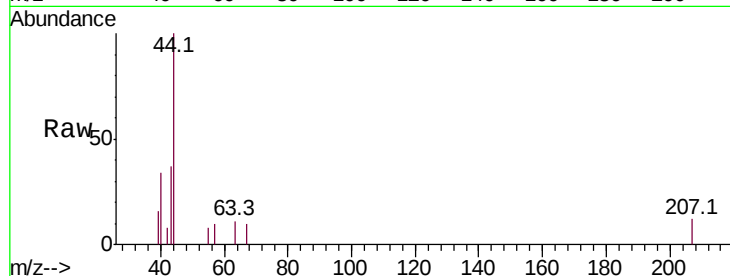
ClientSampleId :

Tot Ion: 43 Resp: 1477

Ion Ratio Lower Upper

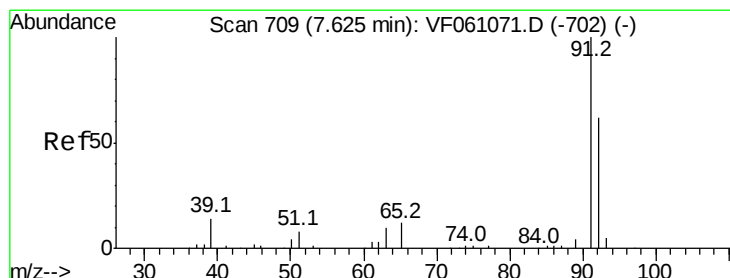
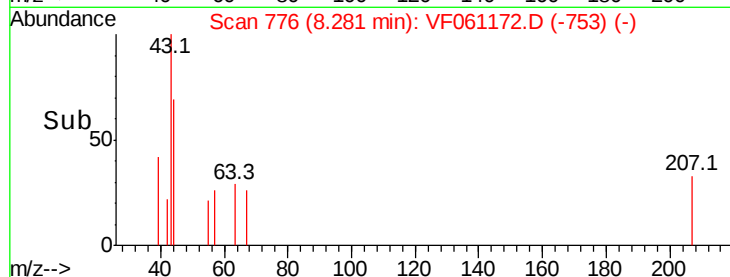
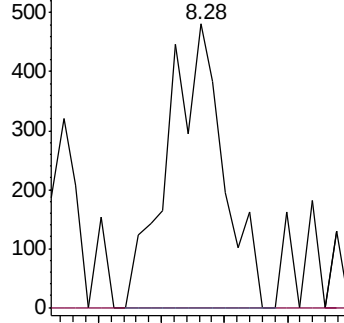
43 100

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: 24.842 ug/l

RT: 7.63 min Scan# 710

Delta R.T. 0.00 min

Lab File: VF061172.D

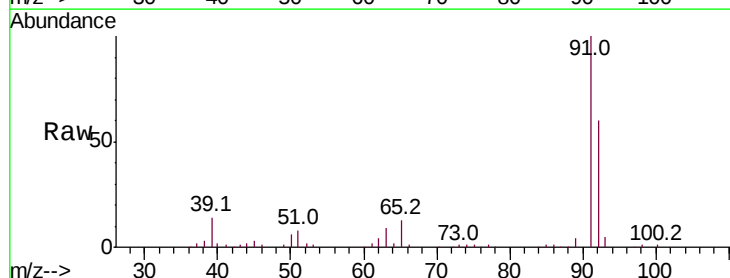
Acq: 24 Dec 2018 18:34

Tgt Ion: 92 Resp: 112306

Ion Ratio Lower Upper

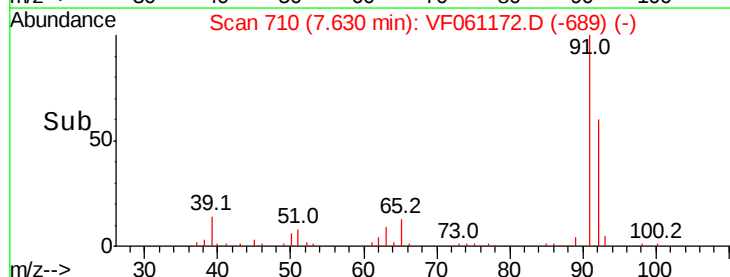
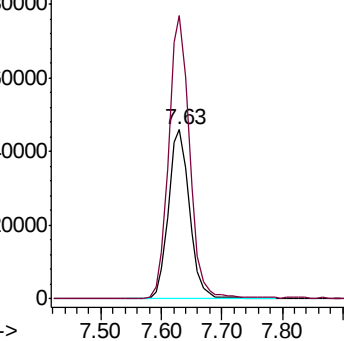
92 100

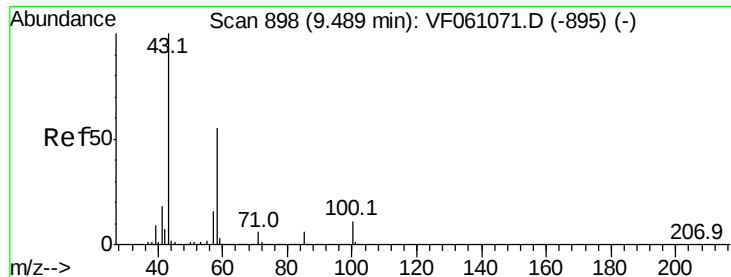
91 167.3 128.8 193.2



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

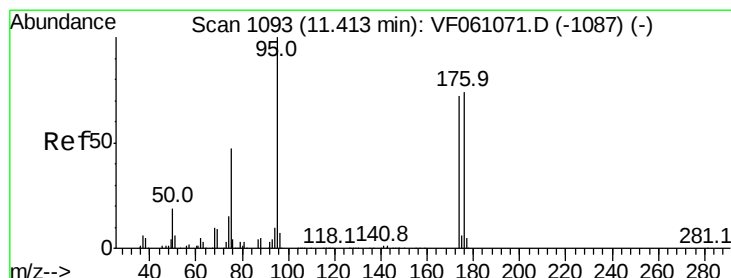
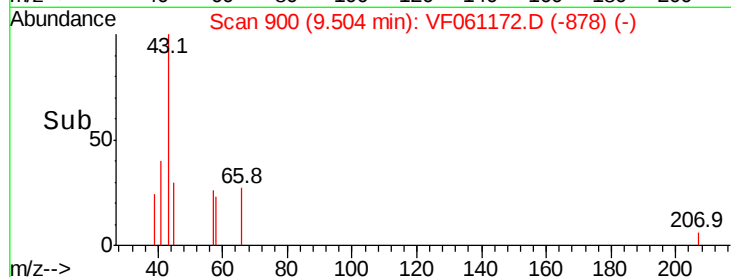
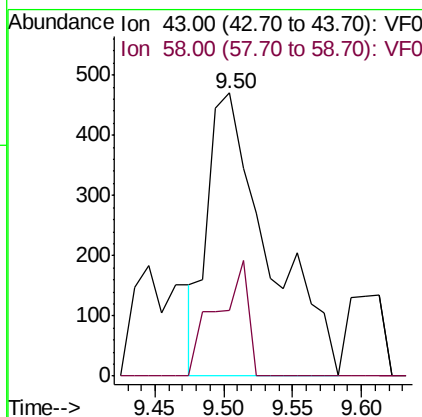
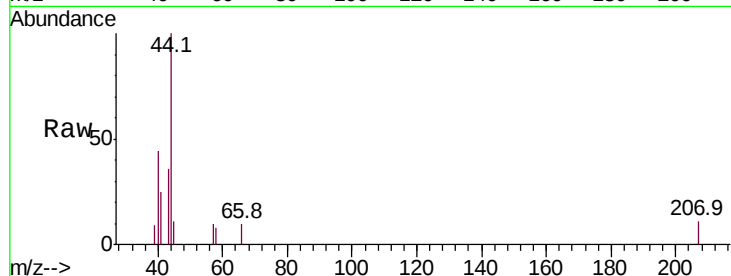




#59
2-Hexanone
Concen: 1.892 ug/l
RT: 9.50 min Scan# 900
Delta R.T. 0.01 min
Lab File: VF061172.D
Acq: 24 Dec 2018 18:34

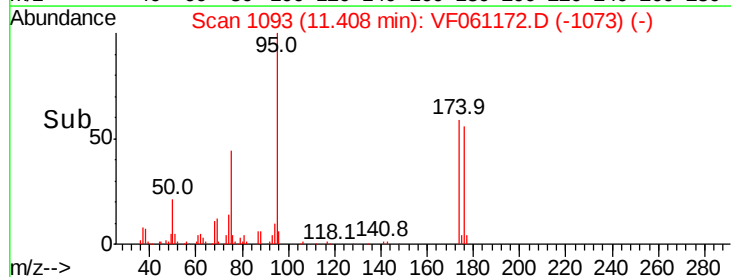
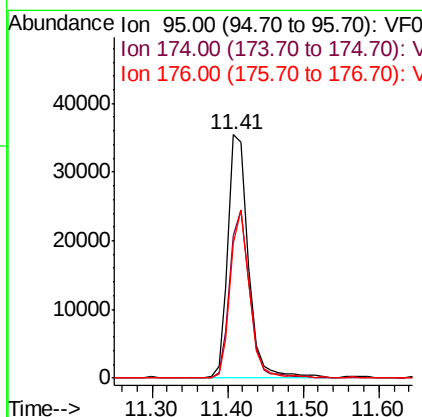
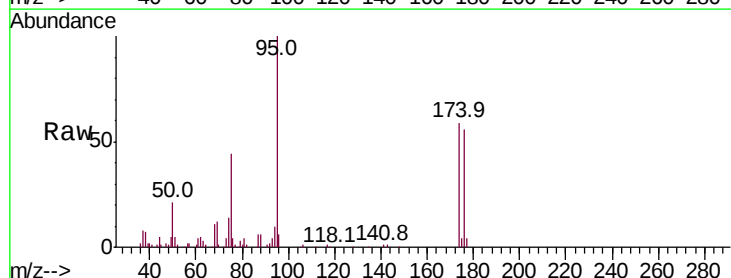
Instrument :
MSVOA_F
ClientSampled :

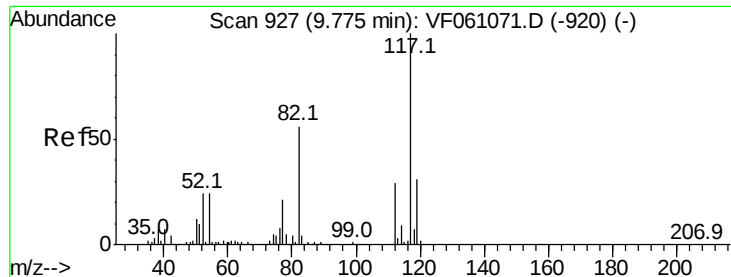
Tot Ion: 43 Resp: 1439
Ion Ratio Lower Upper
43 100
58 23.2 25.1 75.2#



#62
4-Bromofluorobenzene
Concen: 24.208 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. -0.01 min
Lab File: VF061172.D
Acq: 24 Dec 2018 18:34

Tgt Ion: 95 Resp: 66655
Ion Ratio Lower Upper
95 100
174 58.8 0.0 143.8
176 55.6 0.0 147.6

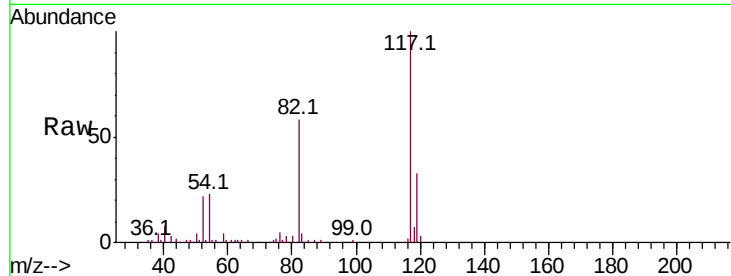




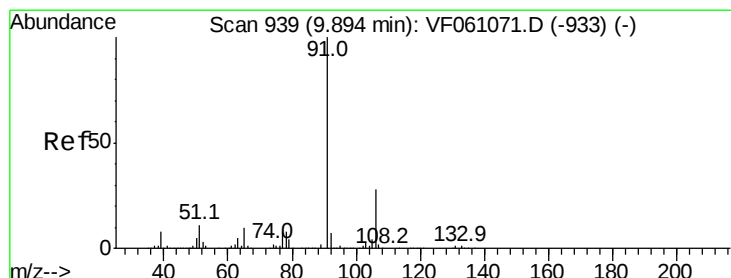
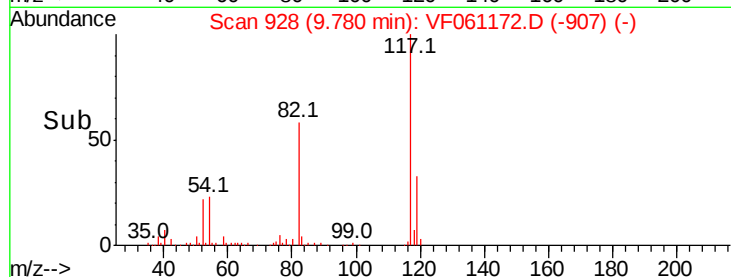
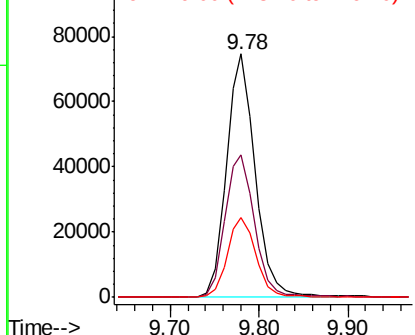
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. 0.00 min
Lab File: VF061172.D
Acq: 24 Dec 2018 18:34

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:117 Resp: 169253
Ion Ratio Lower Upper
117 100
82 58.3 45.0 67.4
119 32.8 24.8 37.2

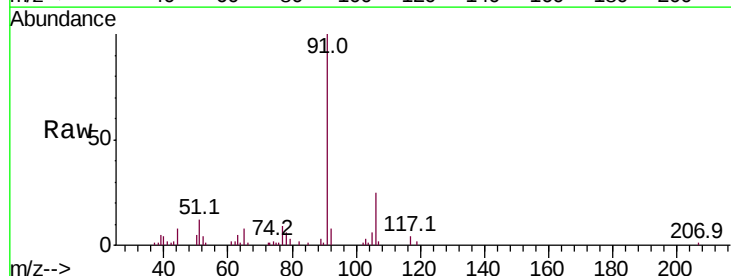


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

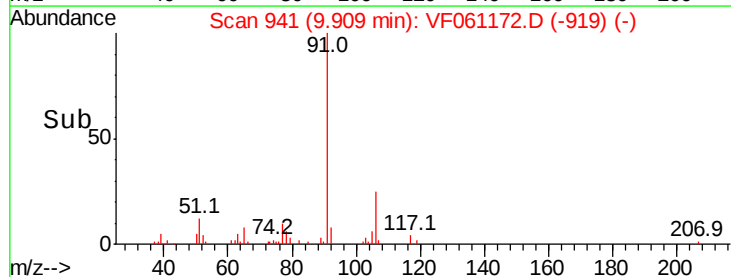
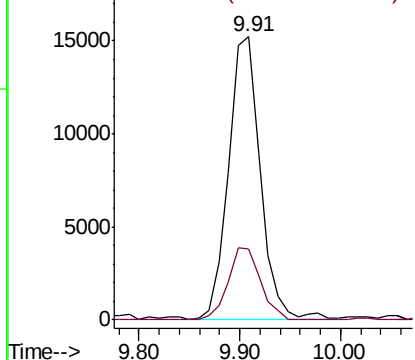


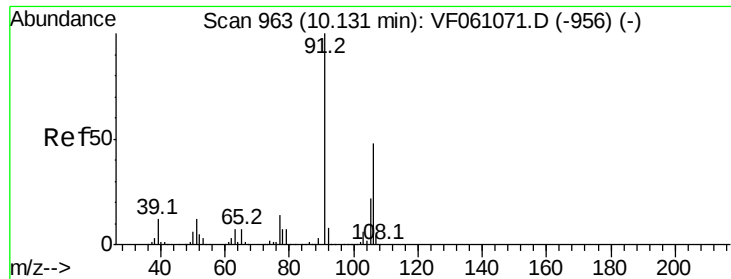
#67
Ethyl Benzene
Concen: 5.275 ug/l
RT: 9.91 min Scan# 941
Delta R.T. 0.01 min
Lab File: VF061172.D
Acq: 24 Dec 2018 18:34

Tgt Ion: 91 Resp: 33605
Ion Ratio Lower Upper
91 100
106 25.1 22.5 33.7



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

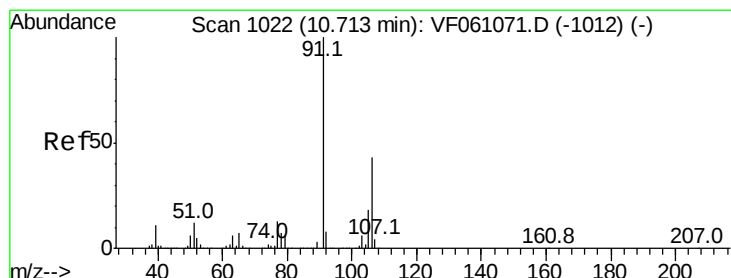
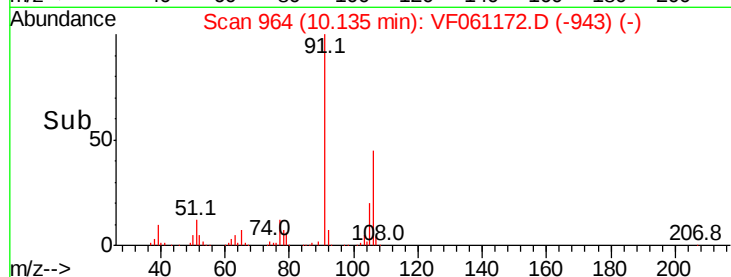
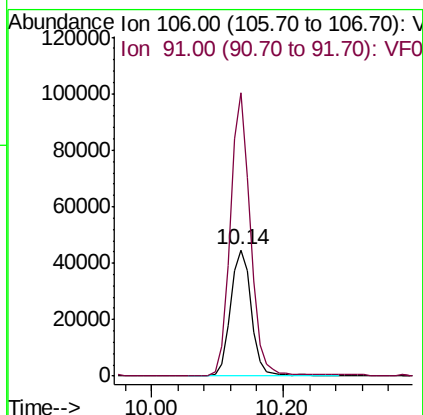
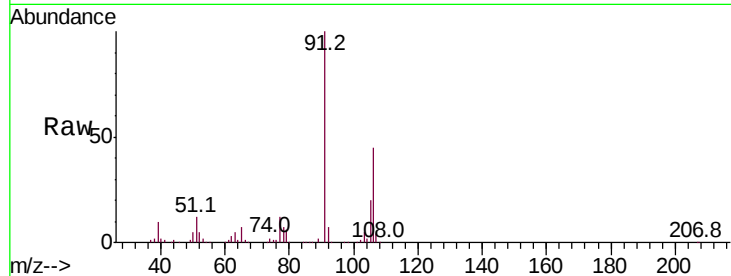




#68
m/p-Xylenes
Concen: 44.670 ug/l
RT: 10.14 min Scan# 964
Delta R.T. 0.00 min
Lab File: VF061172.D
Acq: 24 Dec 2018 18:34

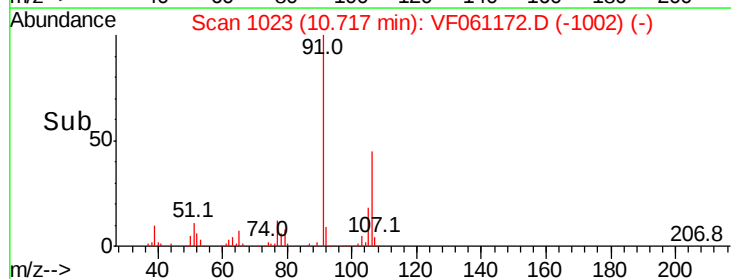
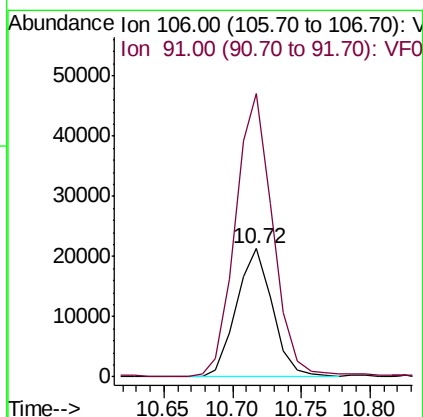
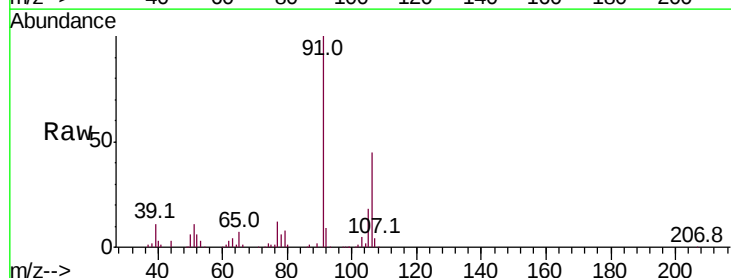
Instrument :
MSVOA_F
ClientSampleId :

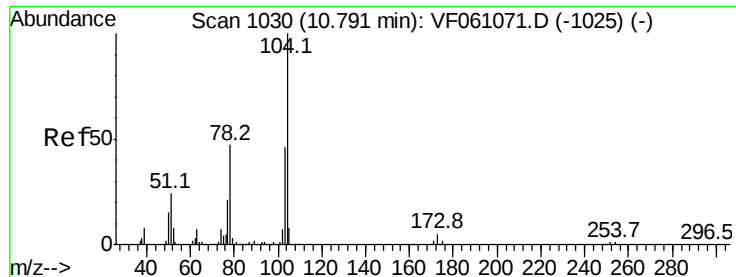
Tot Ion:106 Resp: 100140
Ion Ratio Lower Upper
106 100
91 223.9 168.2 252.2



#69
o-Xylene
Concen: 15.760 ug/l
RT: 10.72 min Scan# 1023
Delta R.T. 0.00 min
Lab File: VF061172.D
Acq: 24 Dec 2018 18:34

Tgt Ion:106 Resp: 39183
Ion Ratio Lower Upper
106 100
91 220.7 115.9 347.7





#70

Stvrene

Concen: Below Cal

RT: 10.80 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VF061172.D

Acq: 24 Dec 2018 18:34

Instrument :

MSVOA_F

ClientSampled :

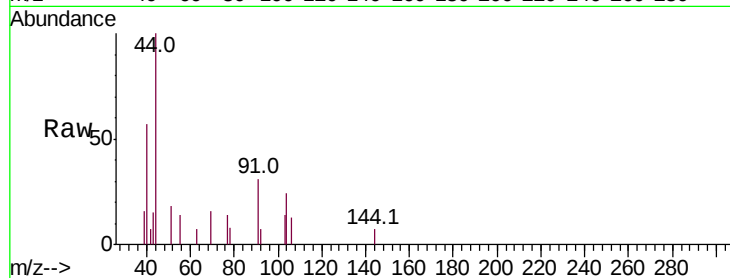
Tot Ion:104 Resp: 557

Ion Ratio Lower Upper

104 100

78 31.6 38.4 57.6#

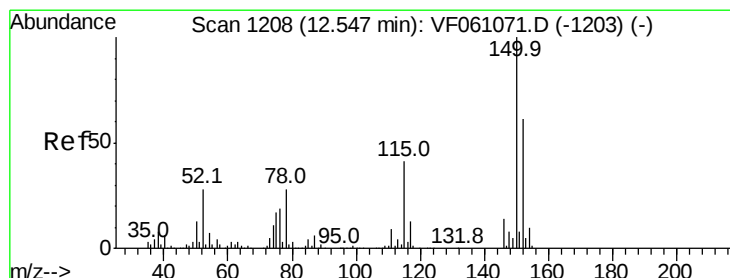
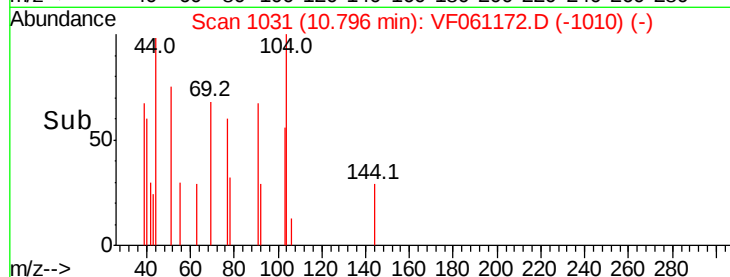
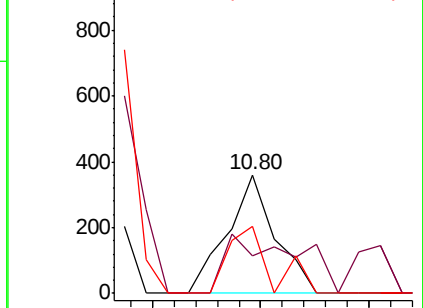
103 56.2 37.0 55.6#



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: 12.55 min Scan# 1209

Delta R.T. 0.00 min

Lab File: VF061172.D

Acq: 24 Dec 2018 18:34

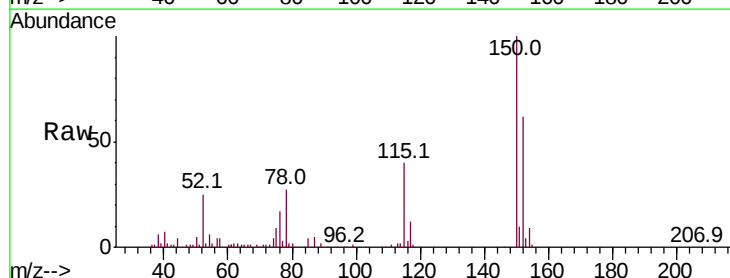
Tgt Ion:152 Resp: 47984

Ion Ratio Lower Upper

152 100

115 64.0 33.3 99.9

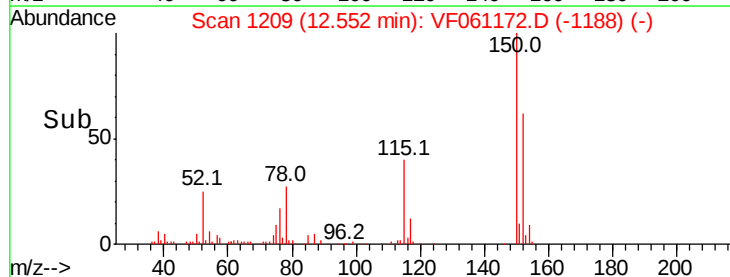
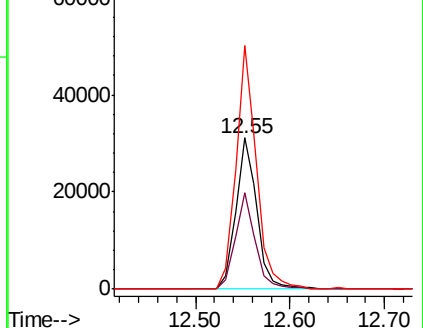
150 161.2 0.0 328.2

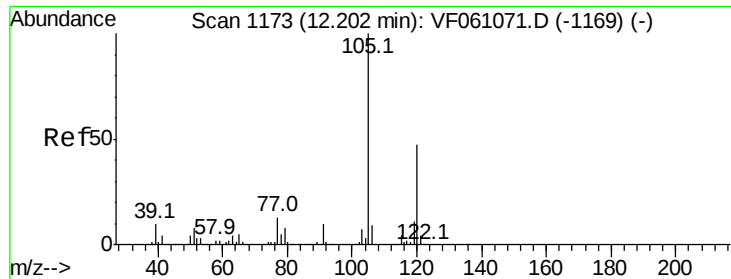


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#84

1,2,4-Trimethylbenzene

Concen: 1.165 ug/l

RT: 12.21 min Scan# 1174

Delta R.T. 0.00 min

Lab File: VF061172.D

Acq: 24 Dec 2018 18:34

Instrument :

MSVOA_F

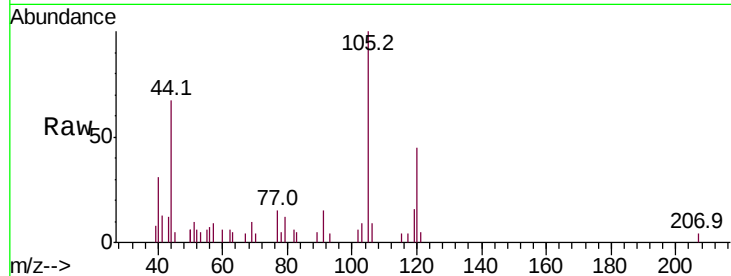
ClientSampleId :

Tot Ion:105 Resp: 3956

Ion Ratio Lower Upper

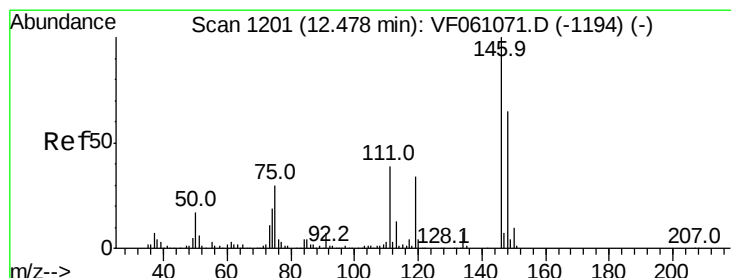
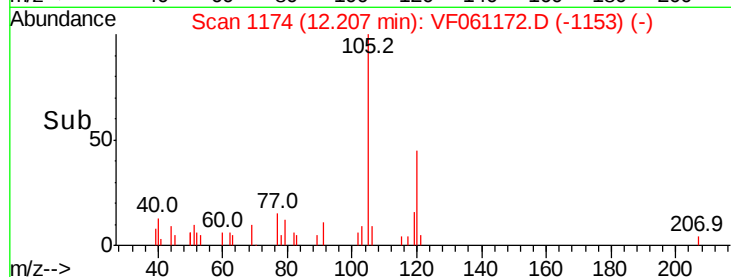
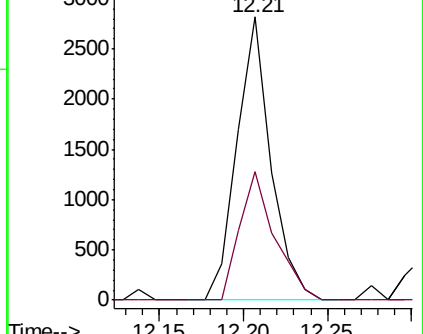
105 100

120 45.4 23.6 71.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 12.48 min Scan# 1202

Delta R.T. 0.01 min

Lab File: VF061172.D

Acq: 24 Dec 2018 18:34

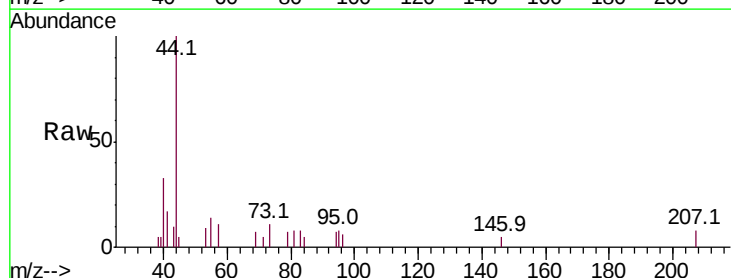
Tgt Ion:146 Resp: 188

Ion Ratio Lower Upper

146 100

111 0.0 19.3 57.9#

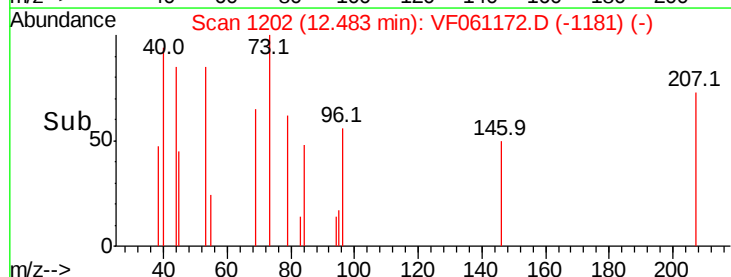
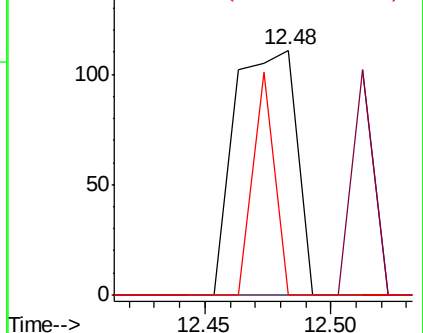
148 0.0 32.4 97.2#

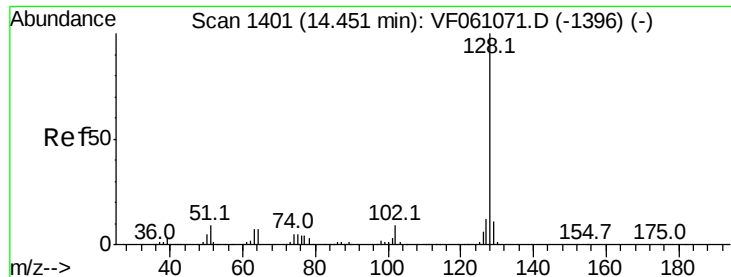


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

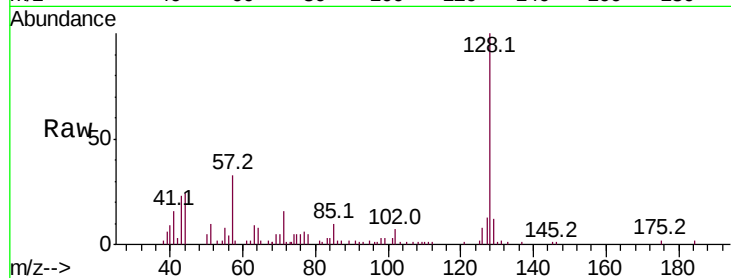




#95
 Naphthalene
 Concen: 8.234 ug/l
 RT: 14.46 min Scan# 1402
 Delta R.T. 0.00 min
 Lab File: VF061172.D
 Acq: 24 Dec 2018 18:34

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion:128 Resp: 16968
 Ion Ratio Lower Upper
 128 100
 127 13.0 9.4 14.2
 129 11.7 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

