

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF122218\
 Data File : VF061154.D
 Acq On : 22 Dec 2018 19:50
 Operator : VA/AP
 Sample : J6482-09RE
 Misc : 5.02g/5mL/MSVOA-F/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 24 02:59:01 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

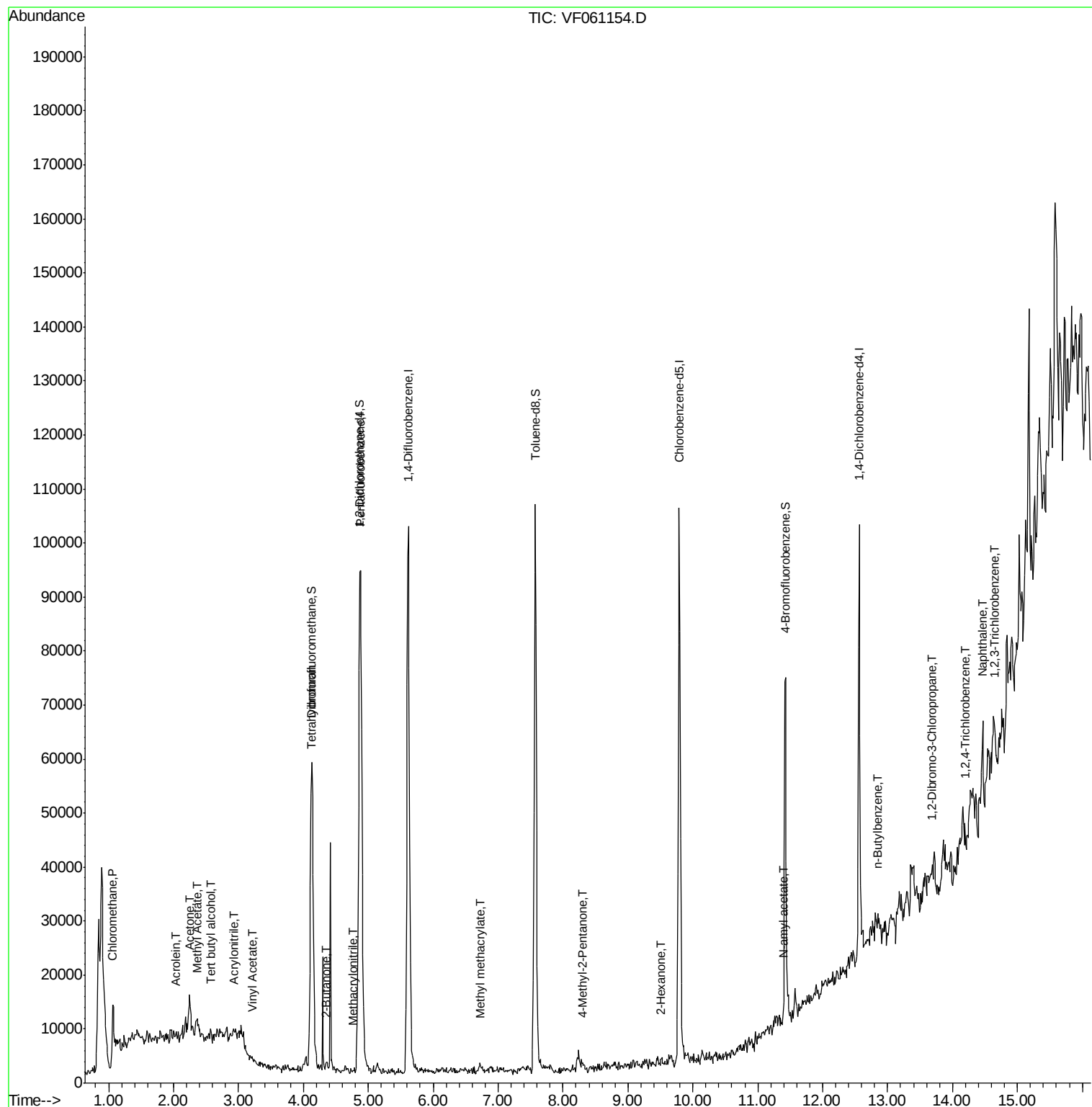
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.89	168	59426	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.62	114	117758	50.00	ug/l	0.03
63) Chlorobenzene-d5	9.79	117	70069	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.56	152	20289	50.00	ug/l	0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.86	65	53616	70.15	ug/l	0.02
Spiked Amount	50.000		Recovery	=	140.30%	
35) Dibromofluoromethane	4.13	113	54580	57.86	ug/l	0.02
Spiked Amount	50.000		Recovery	=	115.72%	
50) Toluene-d8	7.57	98	90491	33.85	ug/l	0.02
Spiked Amount	50.000		Recovery	=	67.70%	
62) 4-Bromofluorobenzene	11.42	95	28562	23.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	46.36%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.07	50	816	1.078	ug/l #	78
11) Tert butyl alcohol	2.58	59	90	2.918	ug/l #	1
13) Acrolein	2.03	56	588	26.383	ug/l	85
15) Acrylonitrile	2.94	53	416	5.833	ug/l #	16
16) Acetone	2.24	43	9326	61.036	ug/l	99
18) Methyl Acetate	2.35	43	4756	15.045	ug/l #	90
20) Methylene Chloride	2.23	84	765	Below Cal	#	76
23) Vinyl Acetate	3.21	43	885	1.056	ug/l #	78
25) 2-Butanone	4.36	43	2006	8.095	ug/l	97
29) Tetrahydrofuran	4.11	42	317	3.143	ug/l #	54
41) Methacrylonitrile	4.77	41	354	1.179	ug/l #	27
48) Methyl methacrylate	6.72	41	637	1.329	ug/l #	42
51) 4-Methyl-2-Pentanone	8.30	43	1108	2.354	ug/l #	38
59) 2-Hexanone	9.50	43	2698	7.926	ug/l #	62
70) Styrene	10.82	104	152	Below Cal	#	30
74) N-amyl acetate	11.39	43	1143	2.945	ug/l #	1
87) 1,3-Dichlorobenzene	12.48	146	389	Below Cal	#	1
89) n-Butylbenzene	12.86	91	2533	1.569	ug/l #	60
92) 1,2-Dibromo-3-Chloropropan	13.69	75	125	2.347	ug/l #	25
93) 1,2,4-Trichlorobenzene	14.20	180	496	1.039	ug/l #	53
95) Naphthalene	14.47	128	2134	2.449	ug/l #	65
96) 1,2,3-Trichlorobenzene	14.65	180	1574	3.568	ug/l #	33

(#) = 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: 4.89 min Scan# 432

Delta R.T. 0.02 min

Lab File: VF061154.D

Acq: 22 Dec 2018 19:50

Instrument :

MSVOA_F

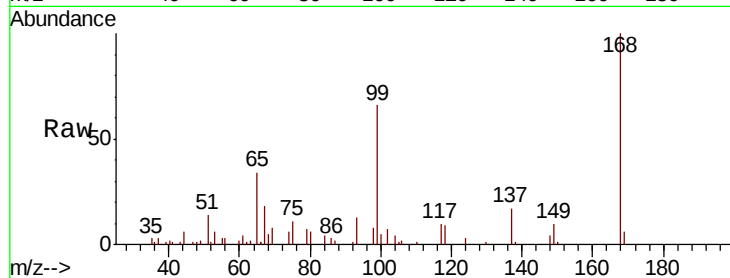
ClientSampled :

Tot Ion:168 Resp: 59426

Ion Ratio Lower Upper

168 100

99 66.3 54.4 81.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.89

20000

15000

10000

5000

0

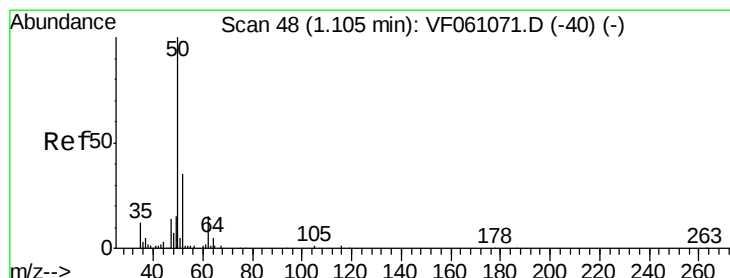
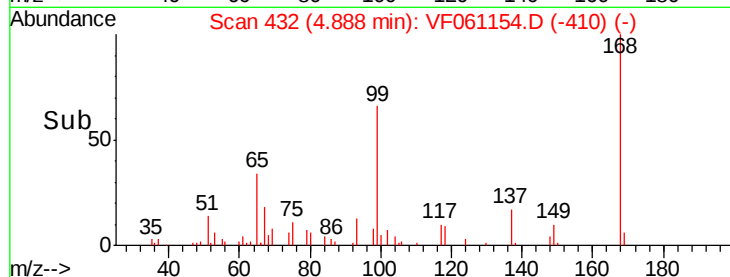
4.80

4.90

5.00

5.10

Time-->



#3

Chloromethane

Concen: 1.078 ug/l

RT: 1.07 min Scan# 45

Delta R.T. -0.03 min

Lab File: VF061154.D

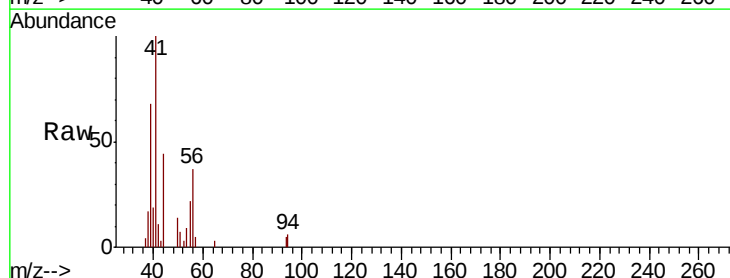
Acq: 22 Dec 2018 19:50

Tgt Ion: 50 Resp: 816

Ion Ratio Lower Upper

50 100

52 20.5 26.3 39.5#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

1.07

600

500

400

300

200

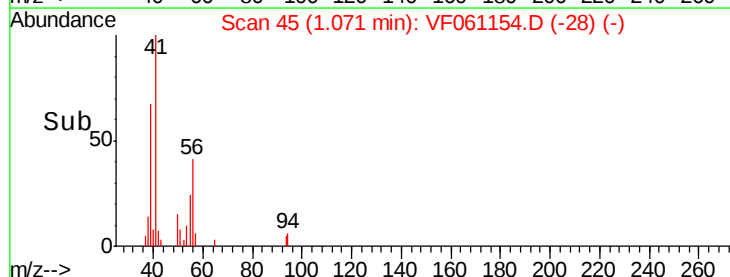
100

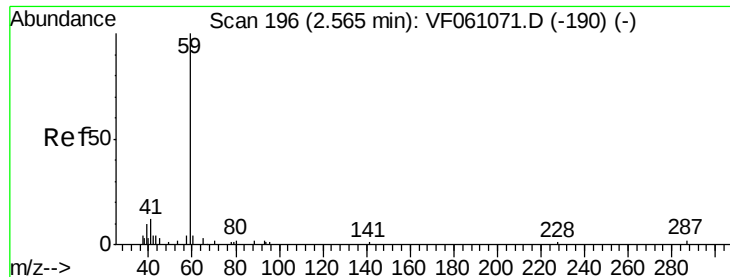
0

1.05

1.10

Time-->

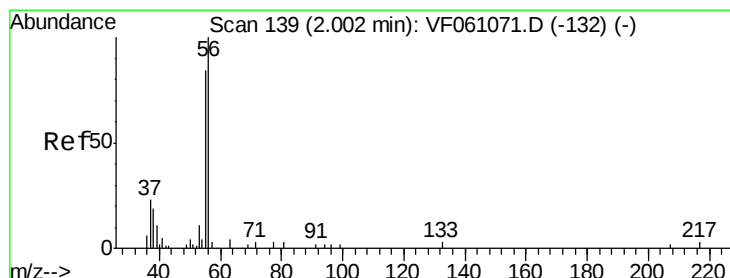
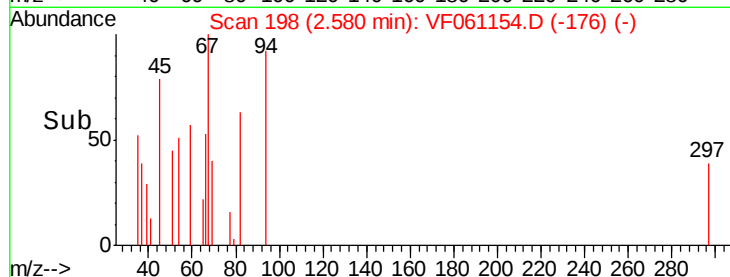
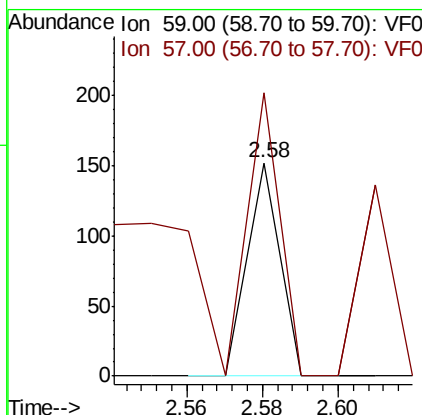
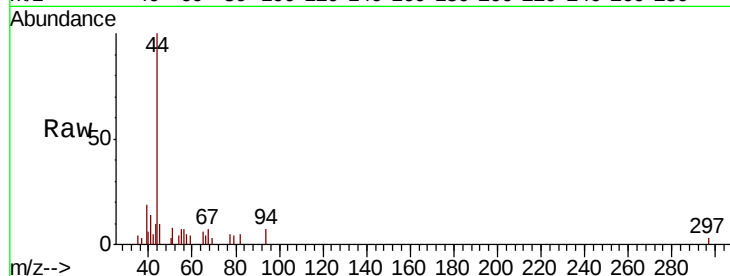




#11
Tert butyl alcohol
Concen: 2.918 ug/l
RT: 2.58 min Scan# 198
Delta R.T. 0.02 min
Lab File: VF061154.D
Acq: 22 Dec 2018 19:50

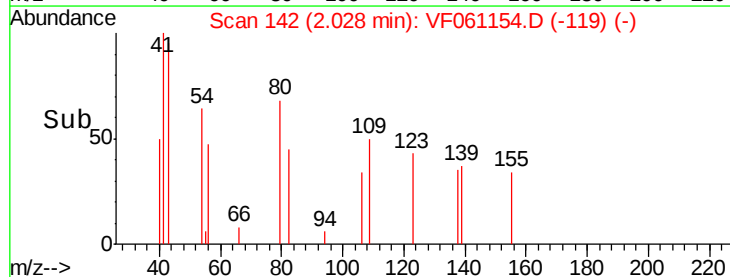
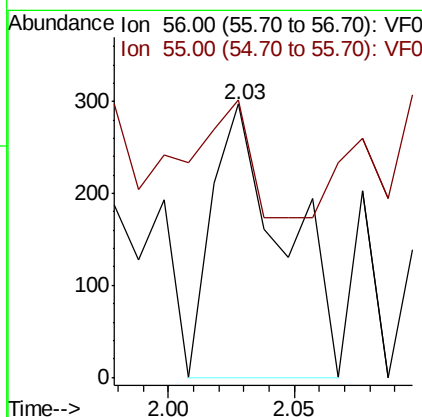
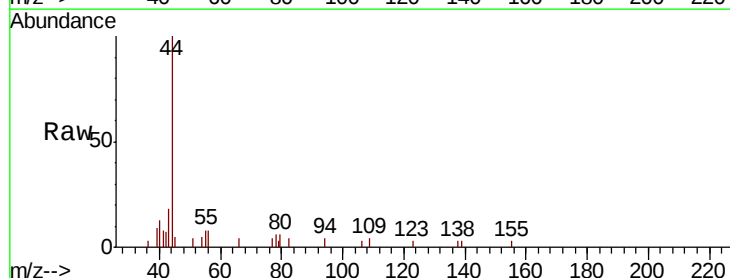
Instrument :
MSVOA_F
ClientSampled :

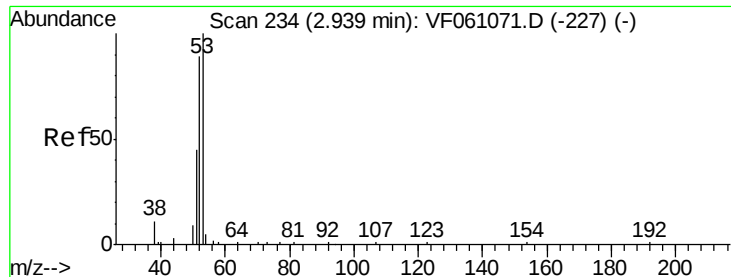
Tot Ion: 59 Resp: 90
Ion Ratio Lower Upper
59 100
57 132.9 11.5 17.3#



#13
Acrolein
Concen: 26.383 ug/l
RT: 2.03 min Scan# 142
Delta R.T. 0.03 min
Lab File: VF061154.D
Acq: 22 Dec 2018 19:50

Tgt Ion: 56 Resp: 588
Ion Ratio Lower Upper
56 100
55 101.7 70.2 105.2





#15

Acrylonitrile

Concen: 5.833 ug/l

RT: 2.94 min Scan# 234

Delta R.T. -0.00 min

Lab File: VF061154.D

Acq: 22 Dec 2018 19:50

Instrument :

MSVOA_F

ClientSampled :

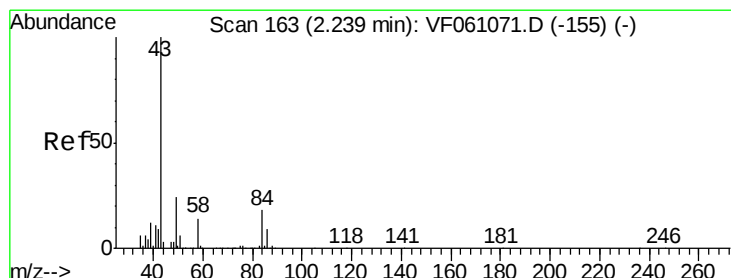
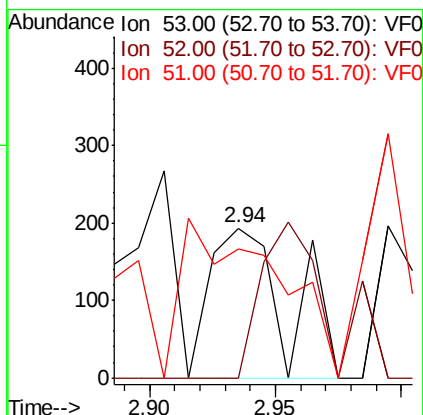
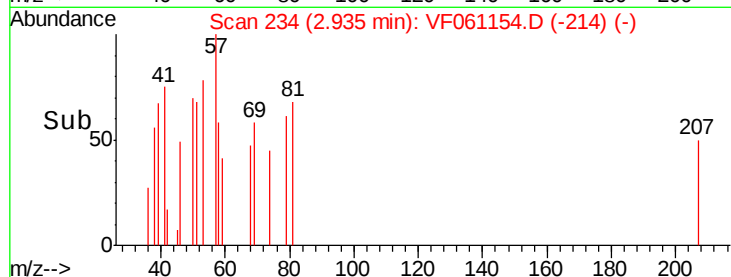
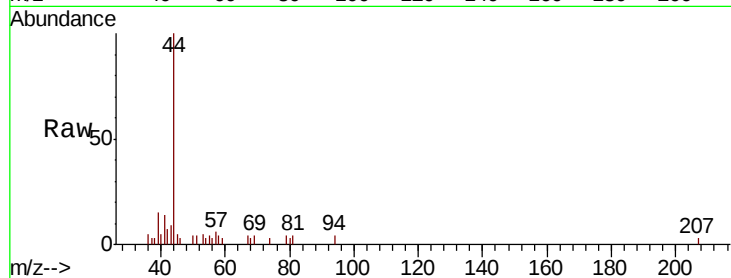
Tot Ion: 53 Resp: 416

Ion Ratio Lower Upper

53 100

52 0.0 71.3 106.9#

51 86.5 36.8 55.2#



#16

Acetone

Concen: 61.036 ug/l

RT: 2.24 min Scan# 164

Delta R.T. 0.01 min

Lab File: VF061154.D

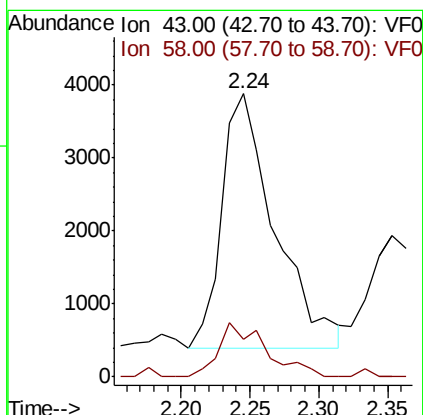
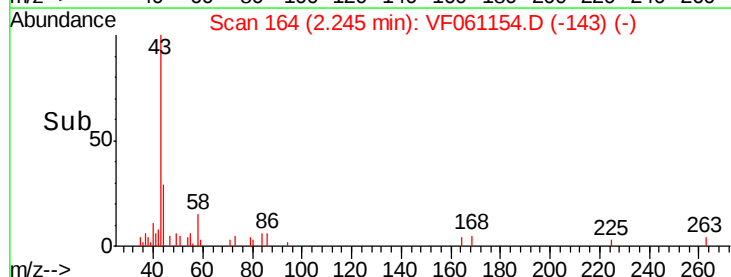
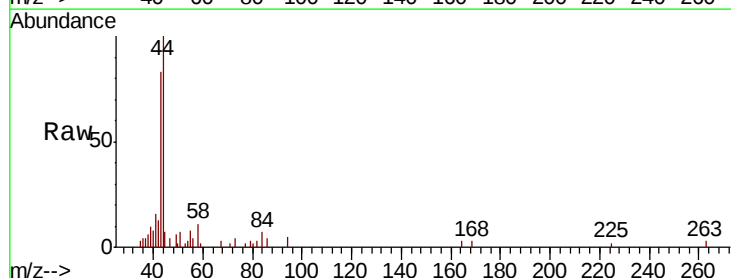
Acq: 22 Dec 2018 19:50

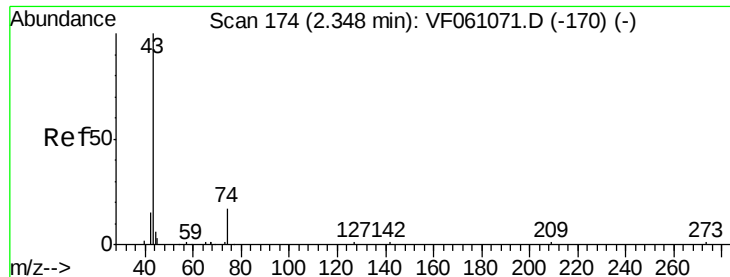
Tgt Ion: 43 Resp: 9326

Ion Ratio Lower Upper

43 100

58 13.4 11.1 16.7

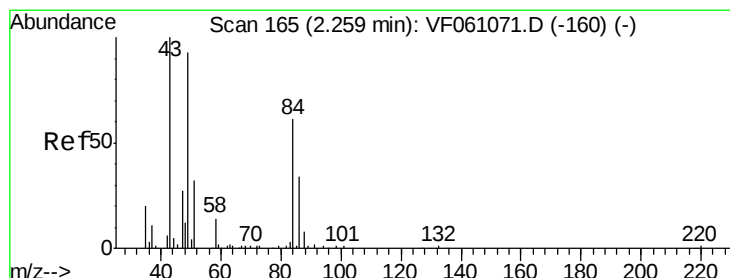
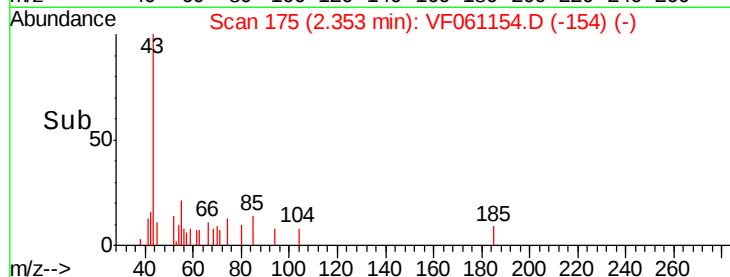
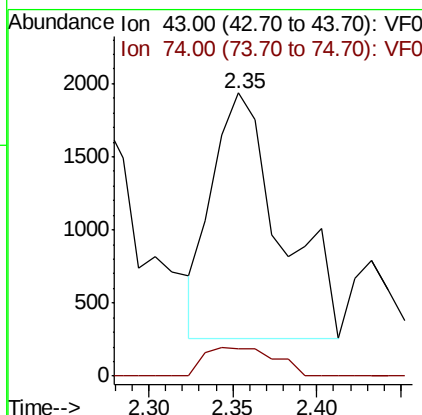
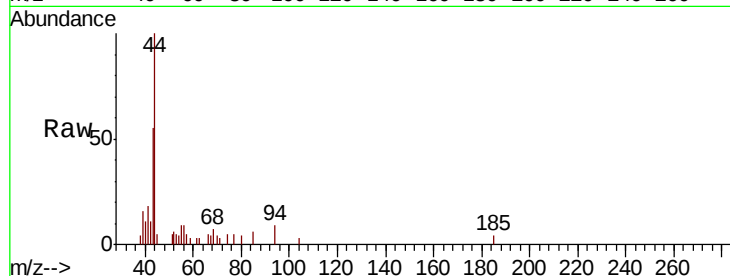




#18
Methyl Acetate
Concen: 15.045 ug/l
RT: 2.35 min Scan# 175
Delta R.T. 0.01 min
Lab File: VF061154.D
Acq: 22 Dec 2018 19:50

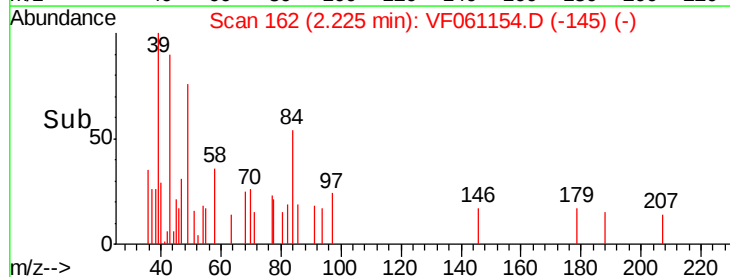
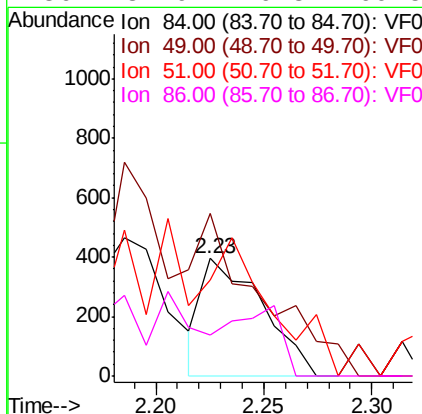
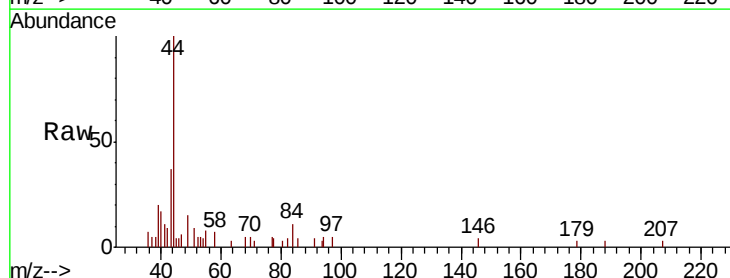
Instrument :
MSVOA_F
ClientSampleId :

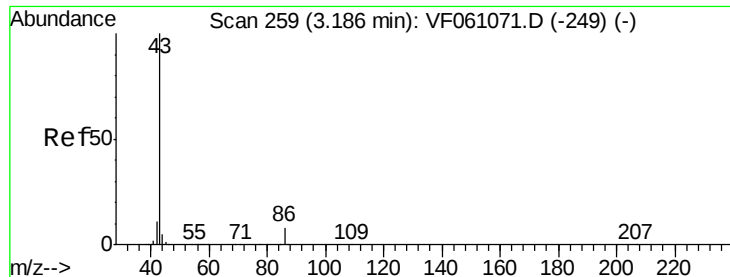
Tot Ion: 43 Resp: 4756
Ion Ratio Lower Upper
43 100
74 9.6 11.0 16.6#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.23 min Scan# 162
Delta R.T. -0.03 min
Lab File: VF061154.D
Acq: 22 Dec 2018 19:50

Tgt Ion: 84 Resp: 765
Ion Ratio Lower Upper
84 100
49 139.0 129.4 194.2
51 82.0 44.0 66.0#
86 34.9 46.3 69.5#





#23

Vinyl Acetate

Concen: 1.056 ug/l

RT: 3.21 min Scan# 262

Delta R.T. 0.03 min

Lab File: VF061154.D

Acq: 22 Dec 2018 19:50

Instrument :

MSVOA_F

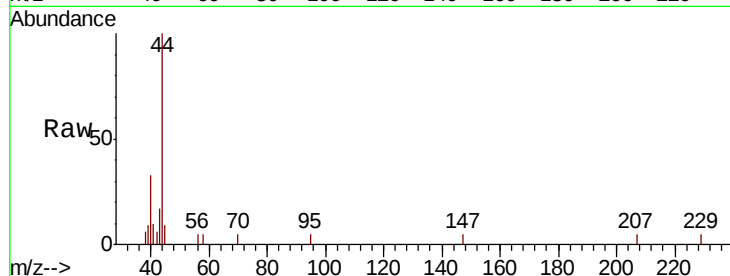
ClientSampled :

Tot Ion: 43 Resp: 885

Ion Ratio Lower Upper

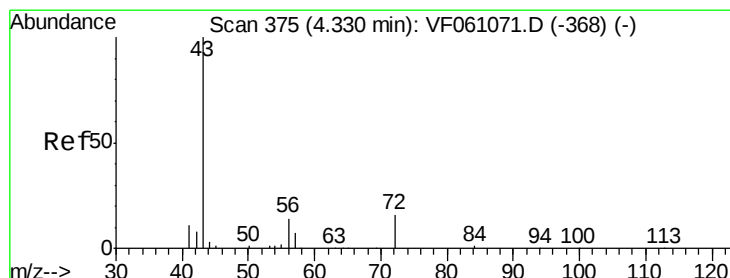
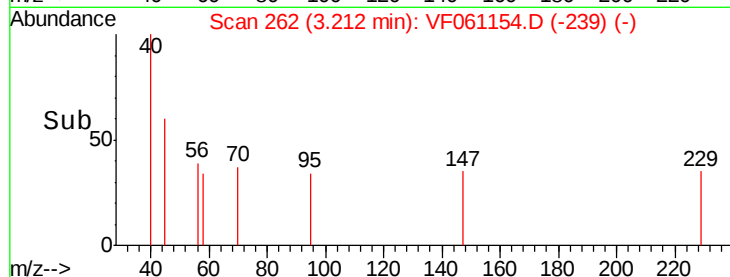
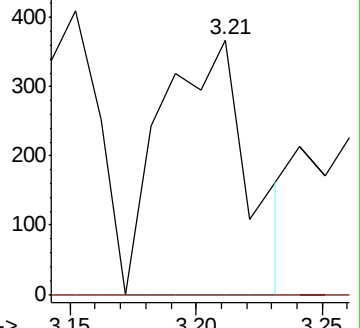
43 100

86 0.0 6.3 9.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#25

2-Butanone

Concen: 8.095 ug/l

RT: 4.36 min Scan# 378

Delta R.T. 0.03 min

Lab File: VF061154.D

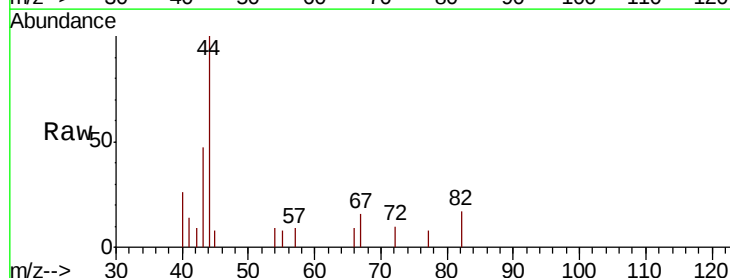
Acq: 22 Dec 2018 19:50

Tgt Ion: 43 Resp: 2006

Ion Ratio Lower Upper

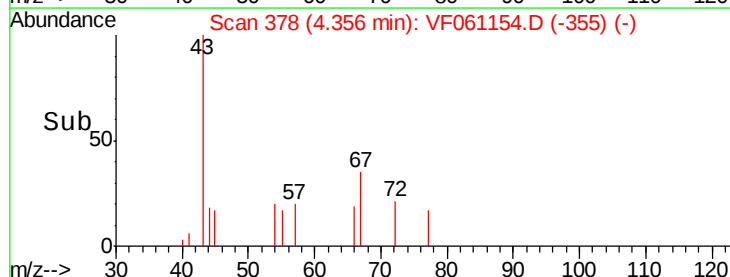
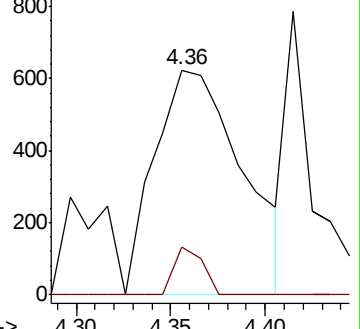
43 100

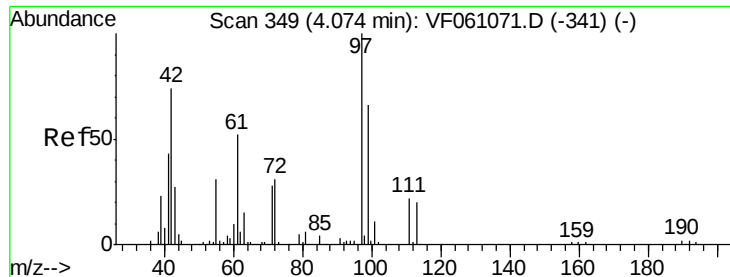
72 21.0 15.6 23.4



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0





#29

Tetrahydrofuran

Concen: 3.143 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.04 min

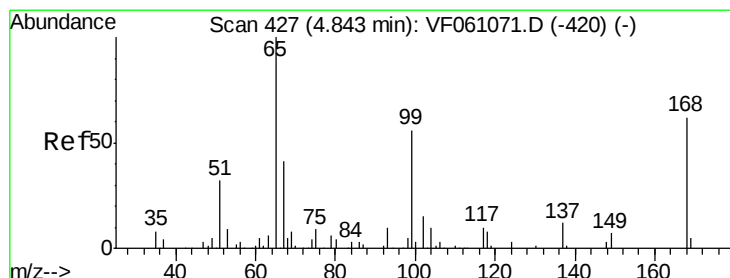
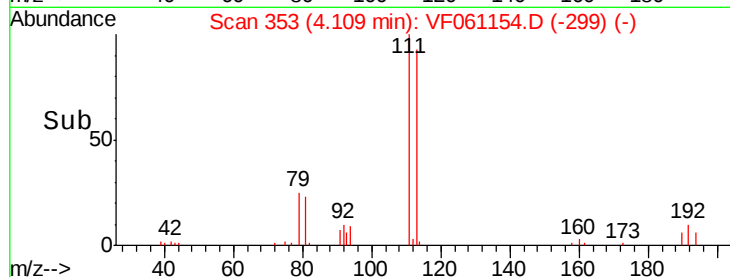
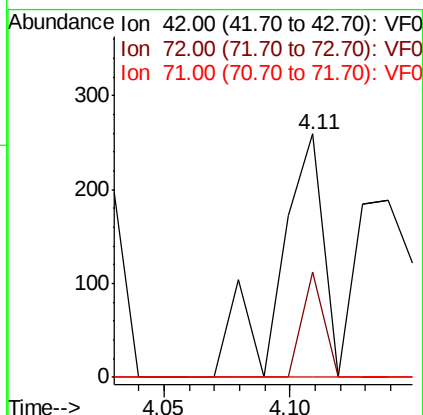
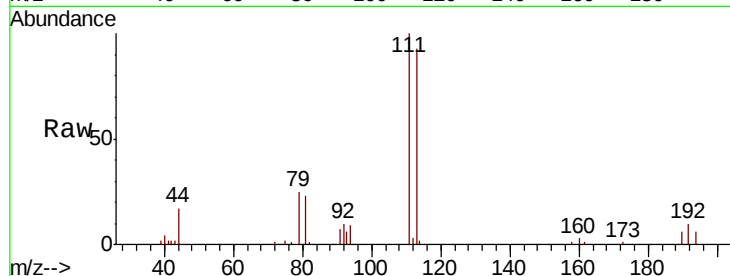
Lab File: VF061154.D

Acq: 22 Dec 2018 19:50

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 42 Resp: 317

Ion	Ratio	Lower	Upper
42	100		
72	20.8	31.8	47.8#
71	0.0	29.7	44.5#



#33

1,2-Dichloroethane-d4

Concen: 70.149 ug/l

RT: 4.86 min Scan# 429

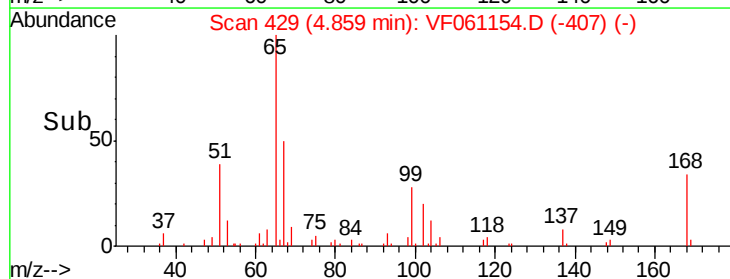
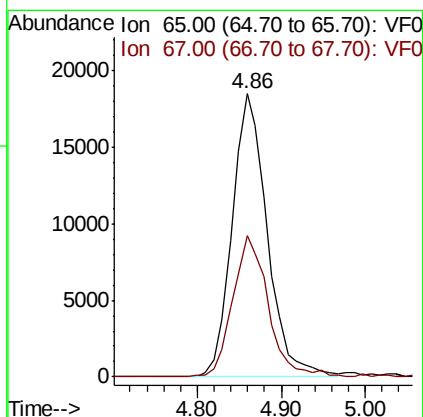
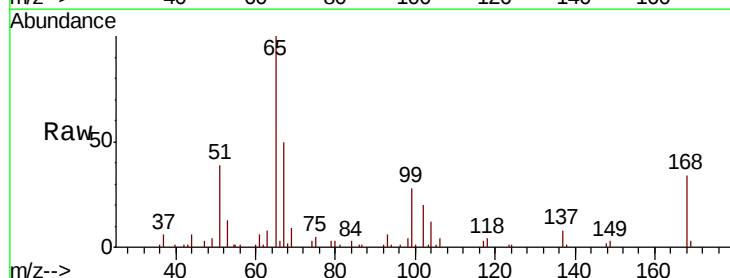
Delta R.T. 0.02 min

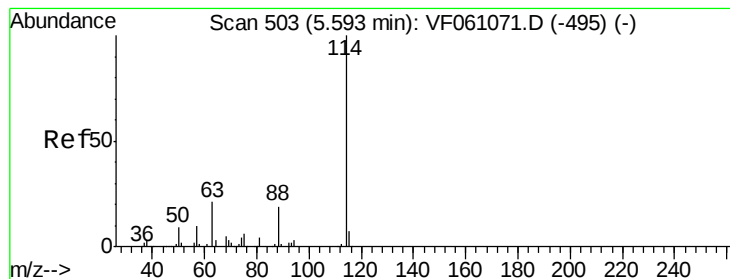
Lab File: VF061154.D

Acq: 22 Dec 2018 19:50

Tgt Ion: 65 Resp: 53616

Ion	Ratio	Lower	Upper
65	100		
67	50.0	0.0	94.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.62 min Scan# 506

Delta R.T. 0.03 min

Lab File: VF061154.D

Acq: 22 Dec 2018 19:50

Instrument :

MSVOA_F

ClientSampled :

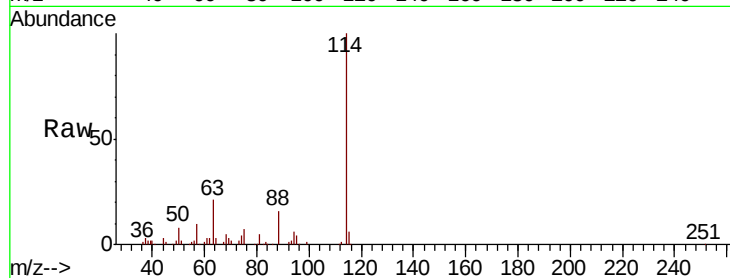
Tot Ion:114 Resp: 117758

Ion Ratio Lower Upper

114 100

63 21.4 0.0 41.6

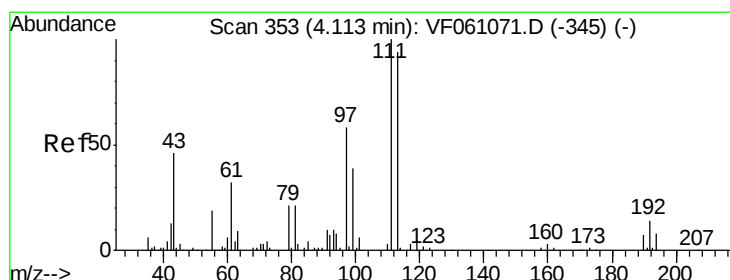
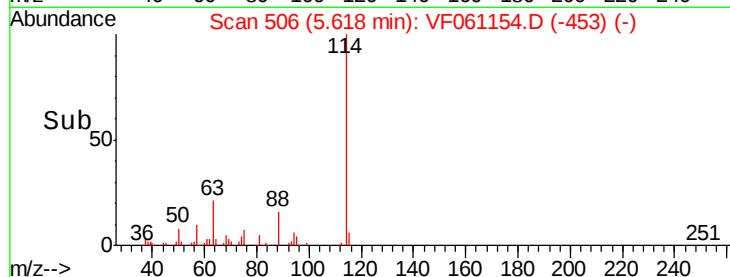
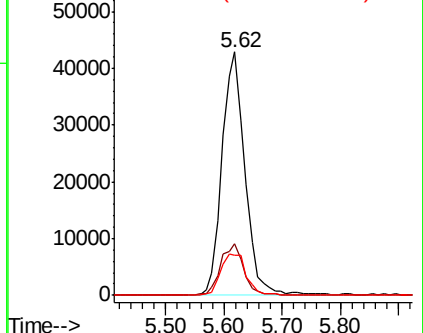
88 16.5 0.0 38.0



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: 57.860 ug/l

RT: 4.13 min Scan# 355

Delta R.T. 0.02 min

Lab File: VF061154.D

Acq: 22 Dec 2018 19:50

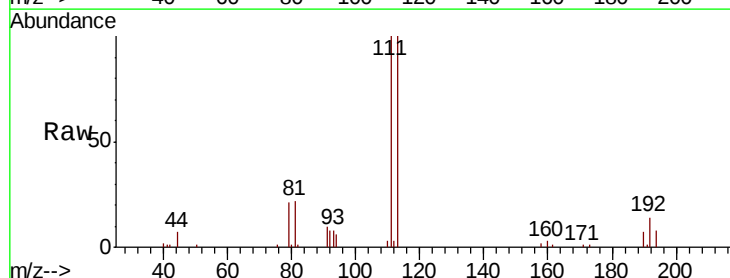
Tgt Ion:113 Resp: 54580

Ion Ratio Lower Upper

113 100

111 100.0 85.2 127.8

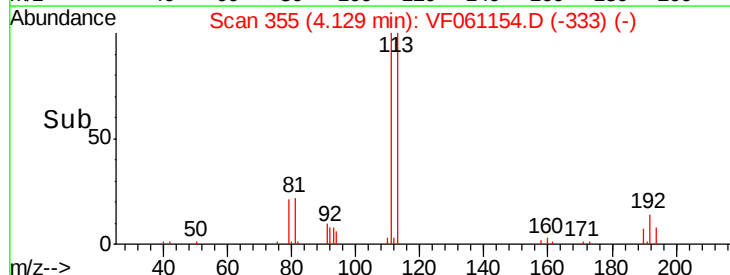
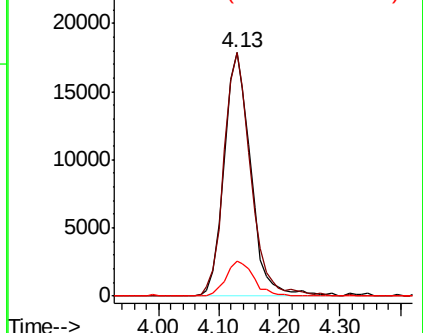
192 14.2 12.8 19.2

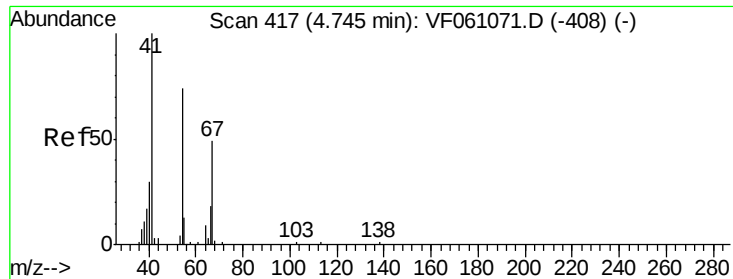


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#41

Methacrylonitrile

Concen: 1.179 ug/l

RT: 4.77 min Scan# 420

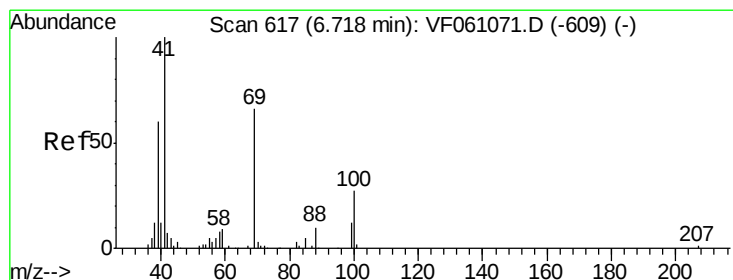
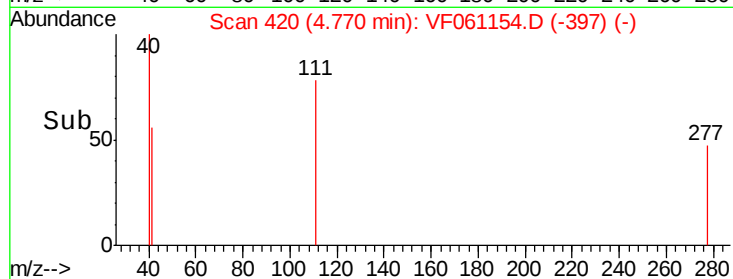
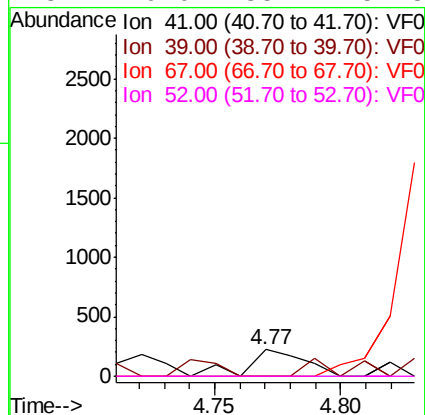
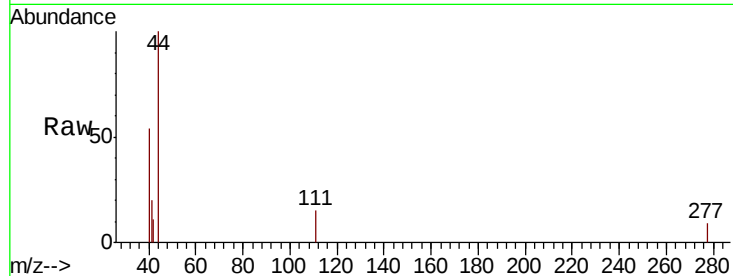
Delta R.T. 0.03 min

Lab File: VF061154.D

Acq: 22 Dec 2018 19:50

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:	41	Resp:	354
Ion	Ratio	Lower	Upper
41	100		
39	0.0	45.7	68.5#
67	0.0	38.9	58.3#
52	0.0	35.2	52.8#



#48

Methyl methacrylate

Concen: 1.329 ug/l

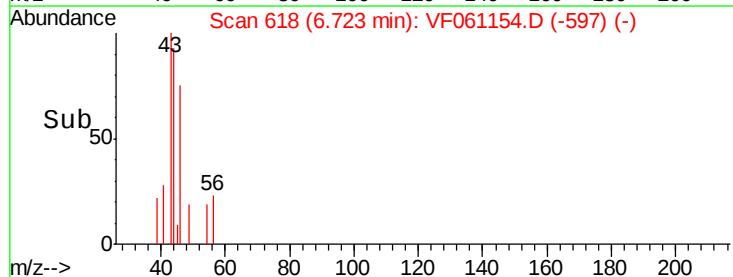
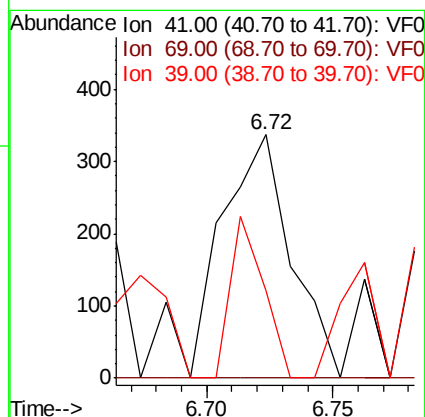
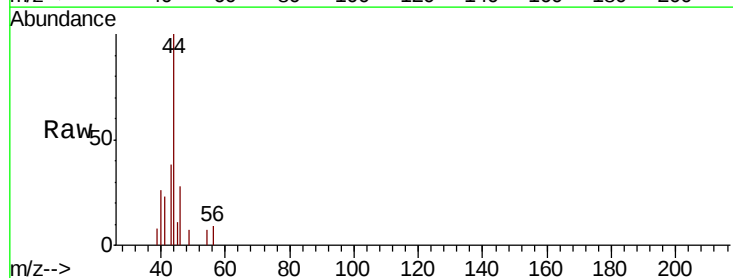
RT: 6.72 min Scan# 618

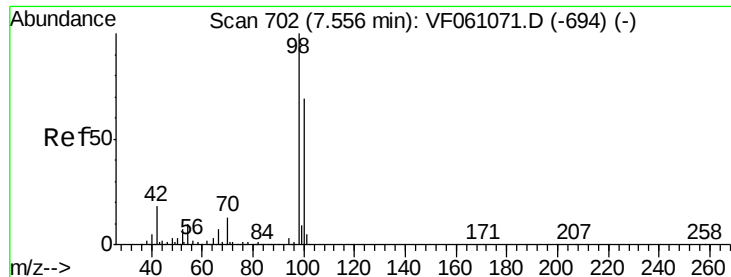
Delta R.T. 0.01 min

Lab File: VF061154.D

Acq: 22 Dec 2018 19:50

Tgt Ion:	41	Resp:	637
Ion	Ratio	Lower	Upper
41	100		
69	0.0	52.7	79.1#
39	36.2	47.8	71.6#





#50

Toluene-d8

Concen: 33.851 ug/l

RT: 7.57 min Scan# 704

Delta R.T. 0.02 min

Lab File: VF061154.D

Acq: 22 Dec 2018 19:50

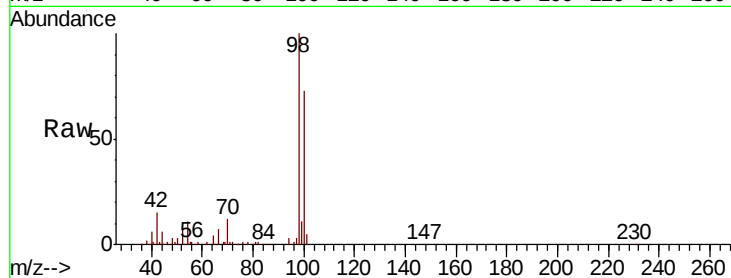
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 98 Resp: 90491

Ion Ratio Lower Upper

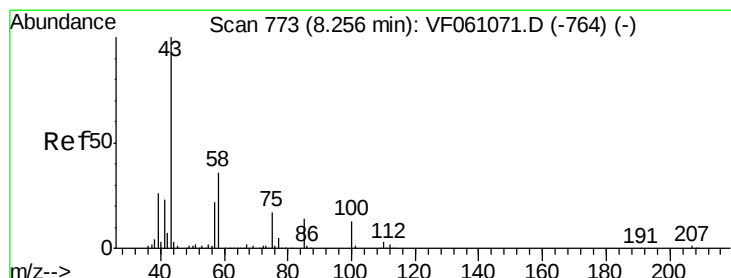
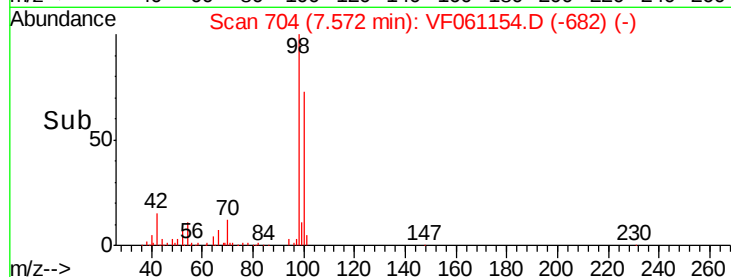
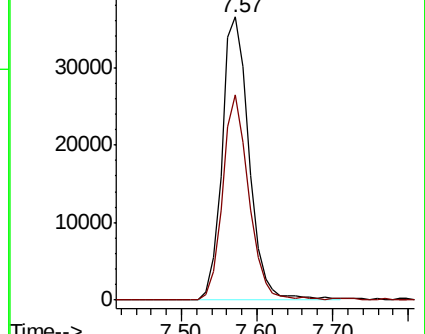
98 100

100 72.5 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: 2.354 ug/l

RT: 8.30 min Scan# 778

Delta R.T. 0.05 min

Lab File: VF061154.D

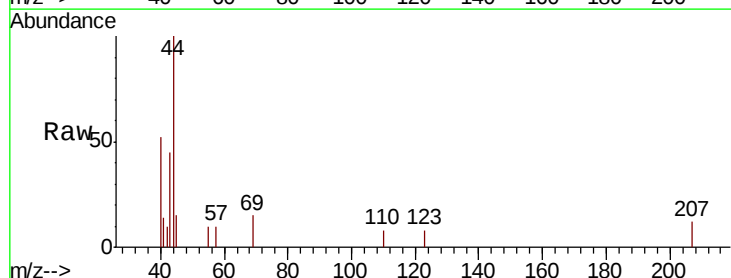
Acq: 22 Dec 2018 19:50

Tgt Ion: 43 Resp: 1108

Ion Ratio Lower Upper

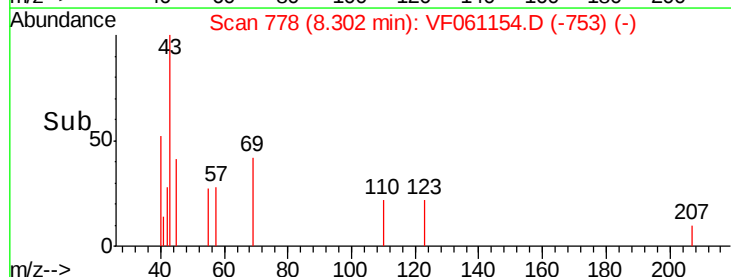
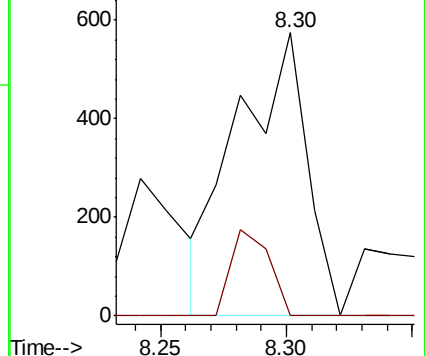
43 100

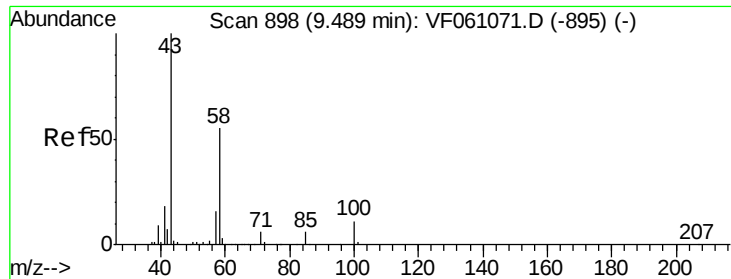
58 0.0 29.1 43.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#59

2-Hexanone

Concen: 7.926 ug/l

RT: 9.50 min Scan# 900

Delta R.T. 0.02 min

Lab File: VF061154.D

Acq: 22 Dec 2018 19:50

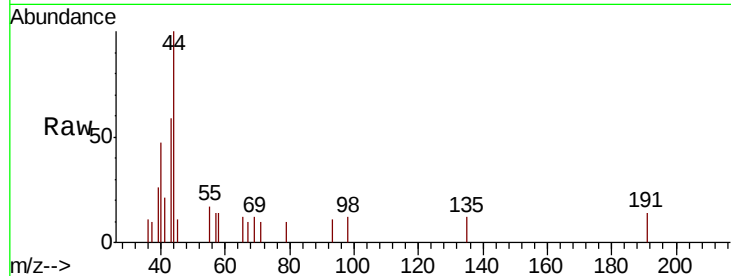
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 2698

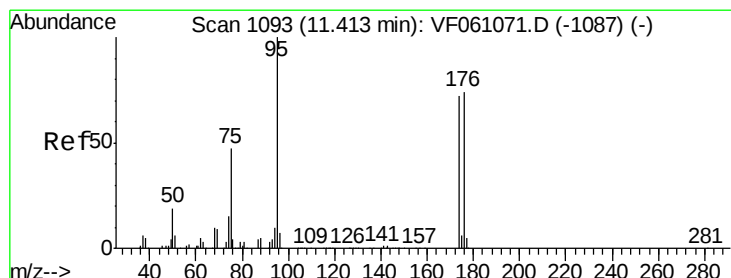
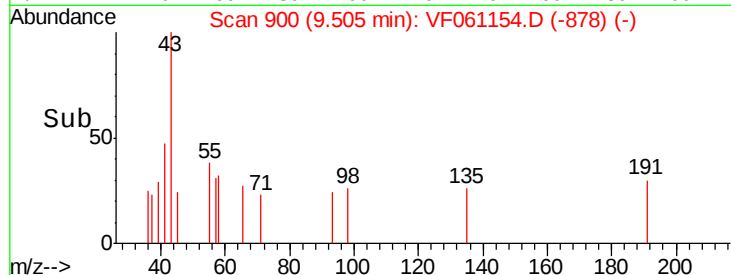
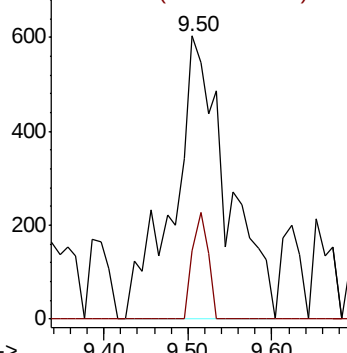
Ion Ratio Lower Upper

43 100

58 24.0 25.1 75.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0



#62

4-Bromofluorobenzene

Concen: 23.176 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.01 min

Lab File: VF061154.D

Acq: 22 Dec 2018 19:50

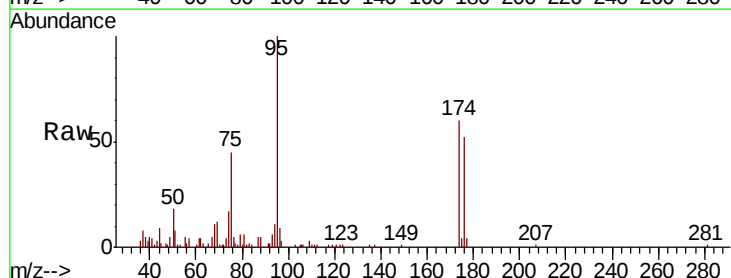
Tgt Ion: 95 Resp: 28562

Ion Ratio Lower Upper

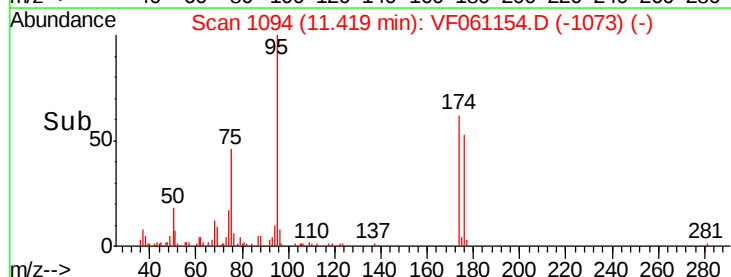
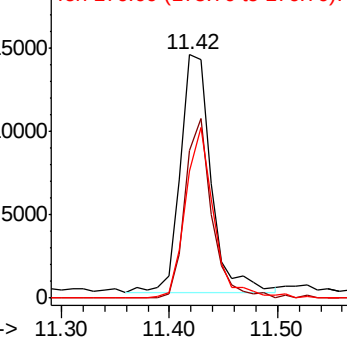
95 100

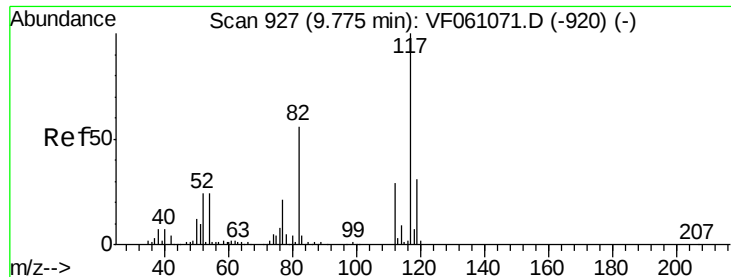
174 60.4 0.0 143.8

176 52.1 0.0 147.6



Abundance Ion 95.00 (94.70 to 95.70): VF0
Ion 174.00 (173.70 to 174.70): V
Ion 176.00 (175.70 to 176.70): V

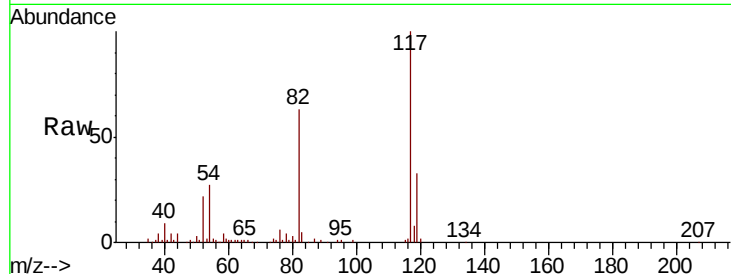




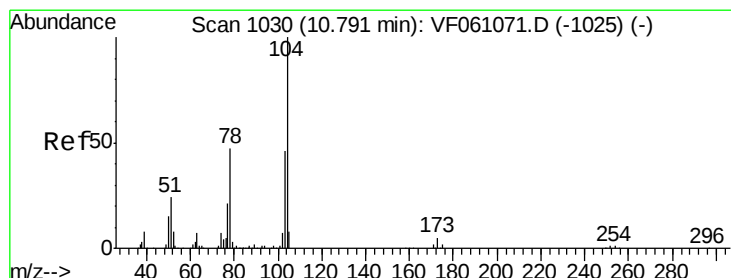
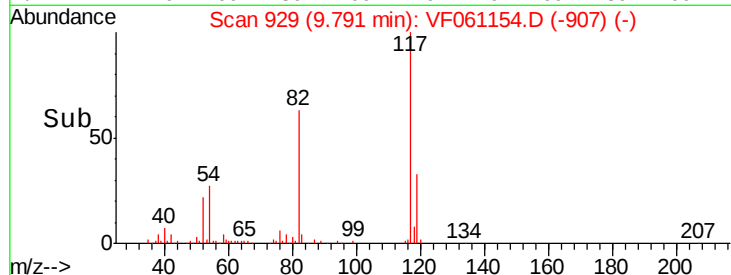
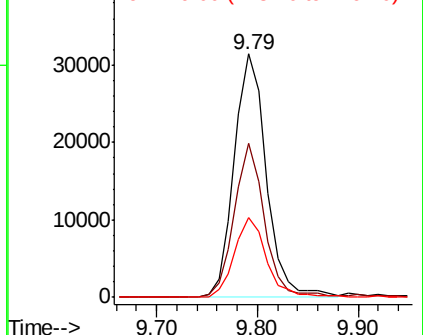
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.79 min Scan# 929
Delta R.T. 0.02 min
Lab File: VF061154.D
Acq: 22 Dec 2018 19:50

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	63.1	45.0	67.4
119	32.6	24.8	37.2

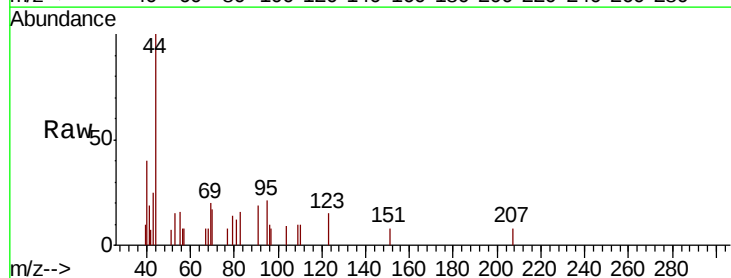


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

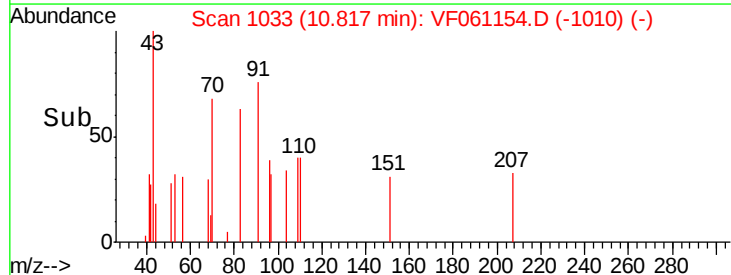
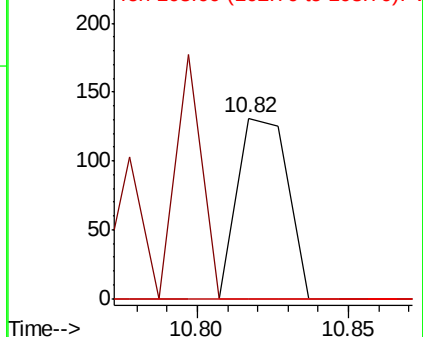


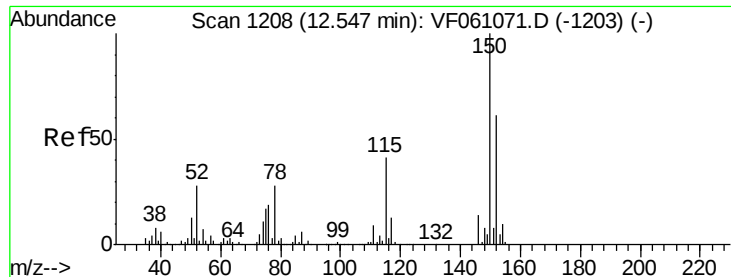
#70
Styrene
Concen: Below Cal
RT: 10.82 min Scan# 1033
Delta R.T. 0.03 min
Lab File: VF061154.D
Acq: 22 Dec 2018 19:50

Tgt 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# 1210

Delta R.T. 0.02 min

Lab File: VF061154.D

Acq: 22 Dec 2018 19:50

Instrument :

MSVOA_F

ClientSampleId :

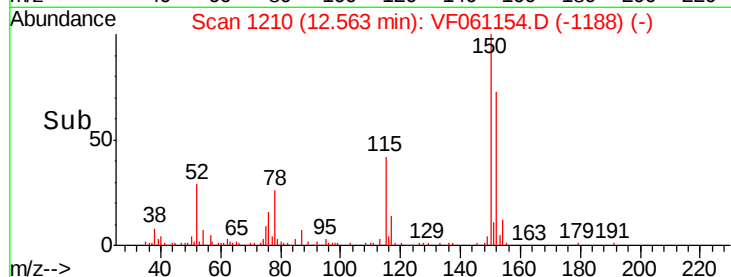
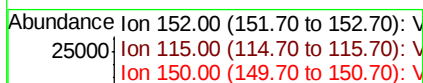
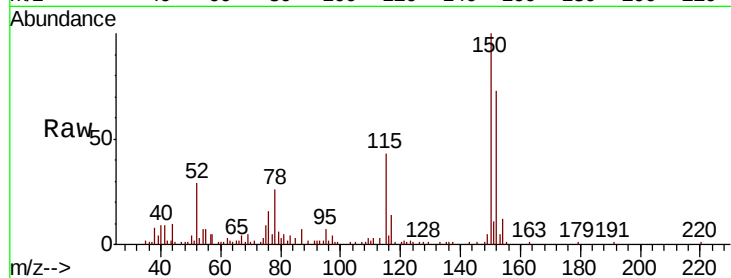
Tot Ion:152 Resp: 20289

Ion Ratio Lower Upper

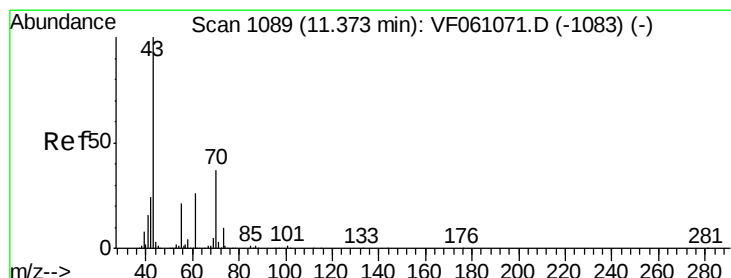
152 100

115 58.4 33.3 99.9

150 136.3 0.0 328.2



Time-->



#74

N-ethyl acetate

Concen: 2.945 ug/l

RT: 11.39 min Scan# 1091

Delta R.T. 0.02 min

Lab File: VF061154.D

Acq: 22 Dec 2018 19:50

Tgt Ion: 43 Resp: 1143

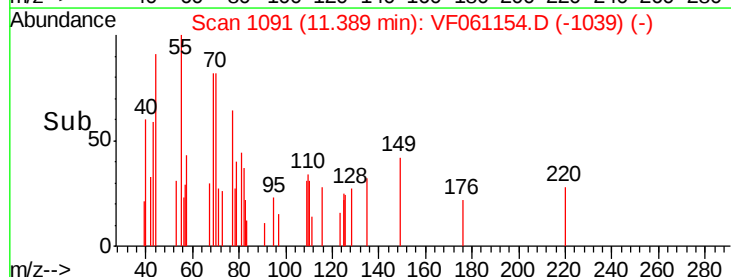
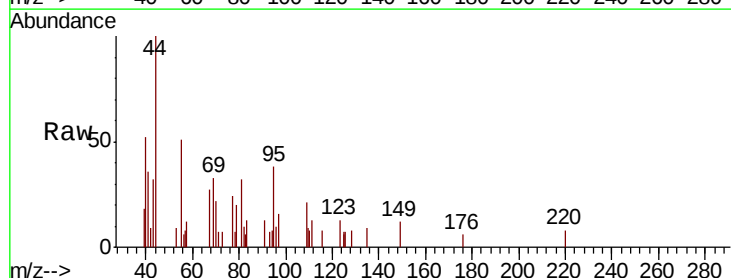
Ion Ratio Lower Upper

43 100

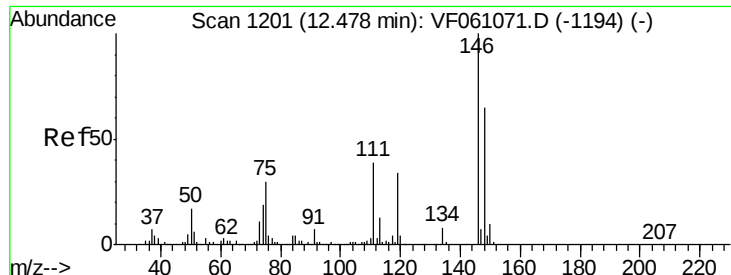
70 70.8 29.2 43.8#

55 162.9 16.5 24.7#

61 0.0 20.7 31.1#



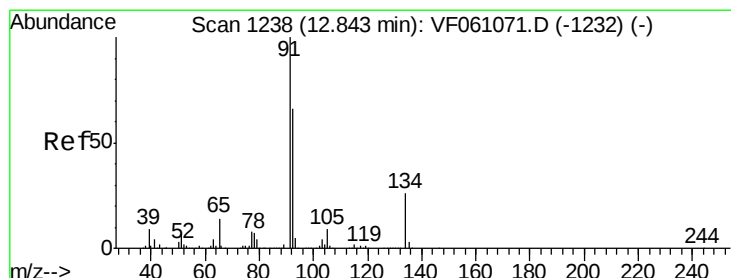
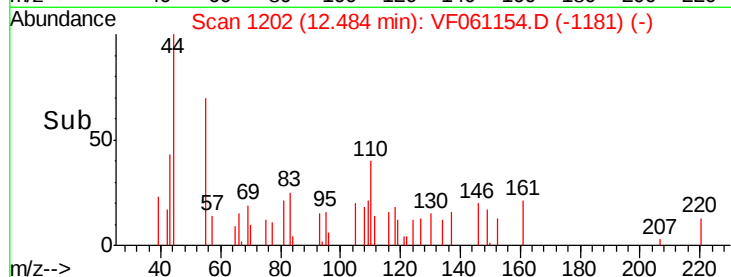
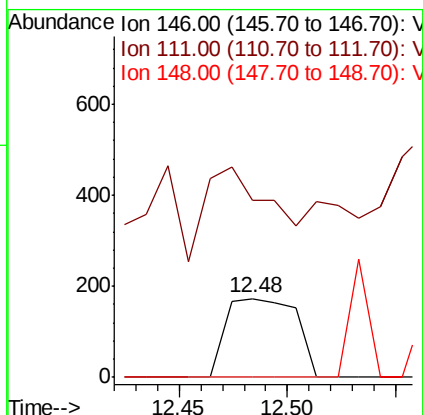
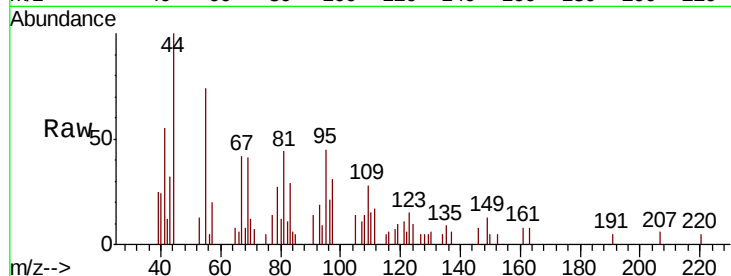
Time-->



#87
 1,3-Dichlorobenzene
 Concen: Below Cal
 RT: 12.48 min Scan# 1202
 Delta R.T. 0.01 min
 Lab File: VF061154.D
 Acq: 22 Dec 2018 19:50

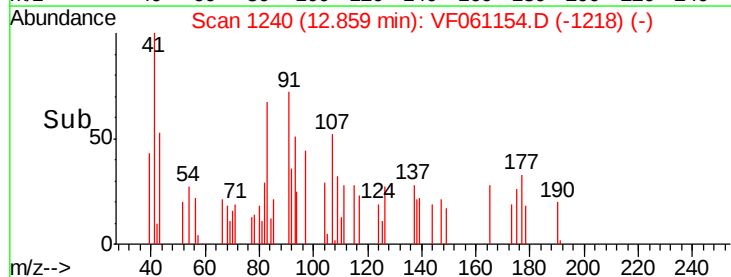
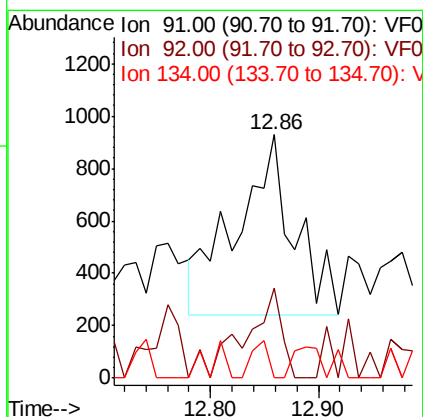
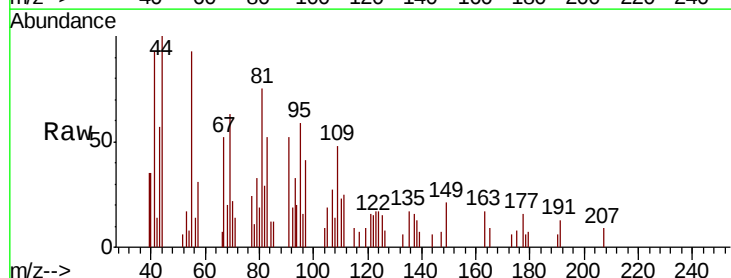
Instrument :
 MSVOA_F
 ClientSampleId :

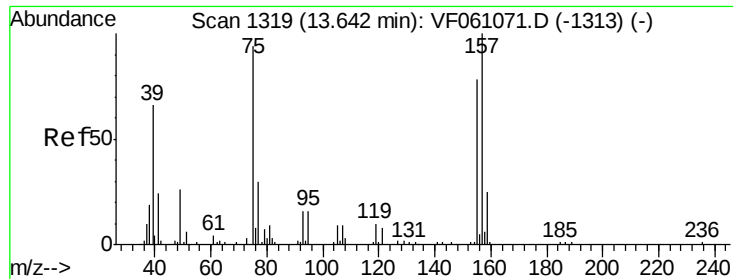
Tot Ion:146 Resp: 389
 Ion Ratio Lower Upper
 146 100
 111 224.9 19.3 57.9#
 148 0.0 32.4 97.2#



#89
 n-Butylbenzene
 Concen: 1.569 ug/l
 RT: 12.86 min Scan# 1240
 Delta R.T. 0.02 min
 Lab File: VF061154.D
 Acq: 22 Dec 2018 19:50

Tgt Ion: 91 Resp: 2533
 Ion Ratio Lower Upper
 91 100
 92 37.0 32.8 98.4
 134 0.0 13.2 39.5#





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.347 ug/l

RT: 13.69 min Scan# 1324

Delta R.T. 0.05 min

Lab File: VF061154.D

Acq: 22 Dec 2018 19:50

Instrument :

MSVOA_F

ClientSampleId :

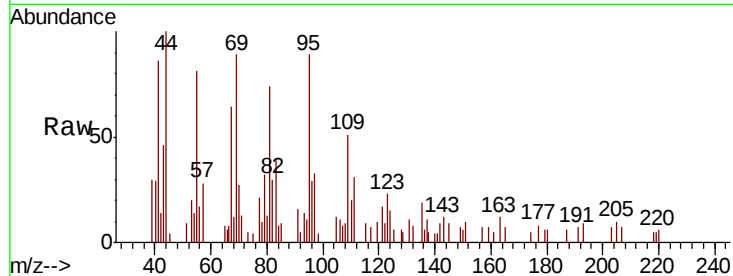
Tot Ion: 75 Resp: 125

Ion Ratio Lower Upper

75 100

155 0.0 41.5 124.5#

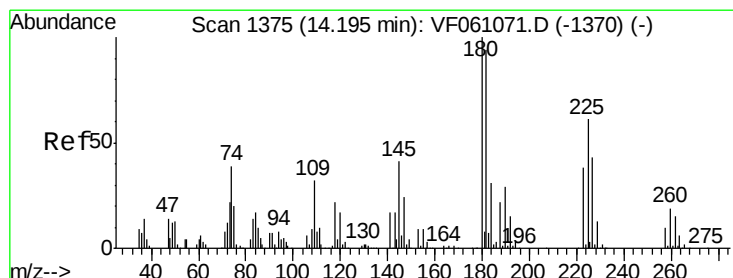
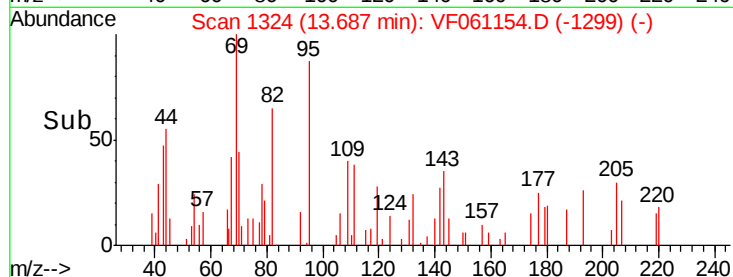
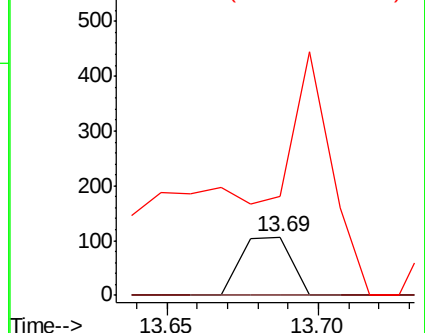
157 170.1 53.2 159.6#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V



#93

1,2,4-Trichlorobenzene

Concen: 1.039 ug/l

RT: 14.20 min Scan# 1376

Delta R.T. 0.01 min

Lab File: VF061154.D

Acq: 22 Dec 2018 19:50

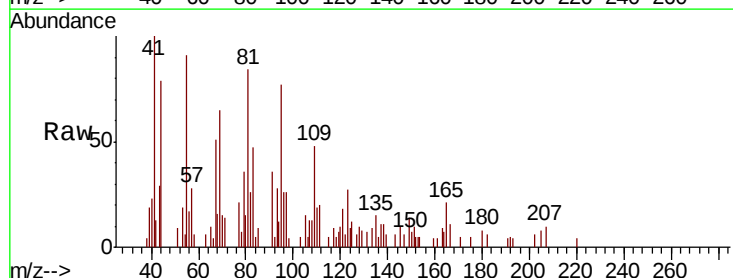
Tgt Ion: 180 Resp: 496

Ion Ratio Lower Upper

180 100

182 76.4 46.9 140.6

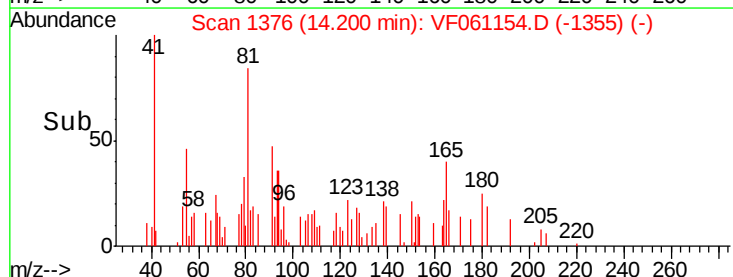
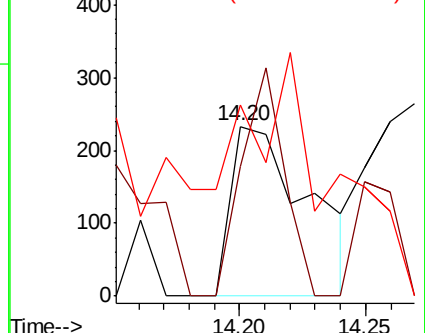
145 112.9 20.5 61.6#

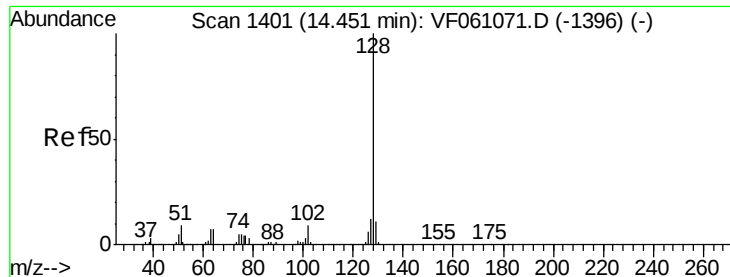


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#95

Naphthalene

Concen: 2.449 ug/l

RT: 14.47 min Scan# 1403

Delta R.T. 0.02 min

Lab File: VF061154.D

Acq: 22 Dec 2018 19:50

Instrument :

MSVOA_F

ClientSampleId :

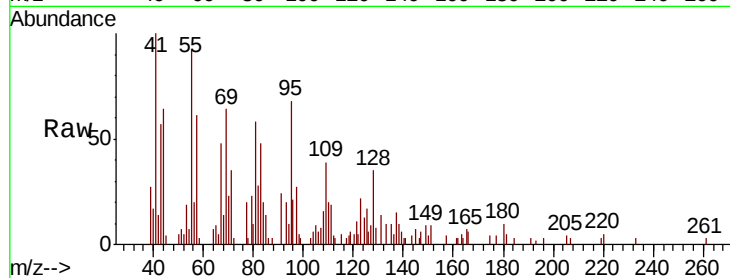
Tot Ion:128 Resp: 2134

Ion Ratio Lower Upper

128 100

127 26.0 9.4 14.2#

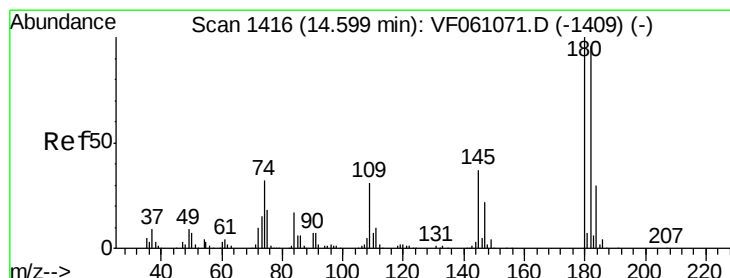
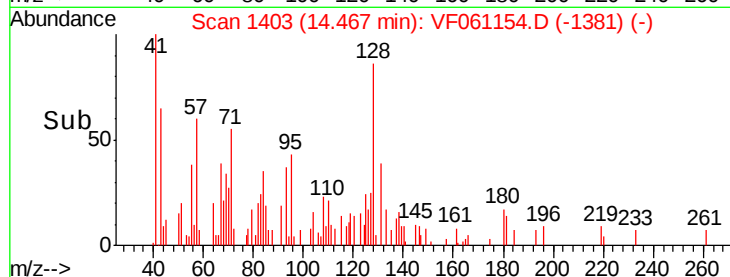
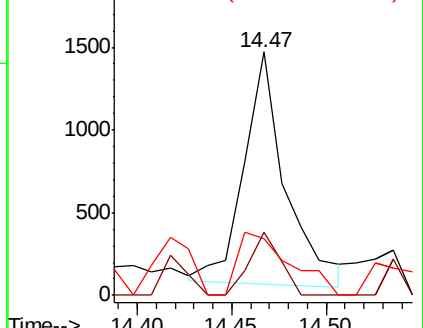
129 23.3 8.8 13.2#



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



#96

1,2,3-Trichlorobenzene

Concen: 3.568 ug/l

RT: 14.65 min Scan# 1422

Delta R.T. 0.06 min

Lab File: VF061154.D

Acq: 22 Dec 2018 19:50

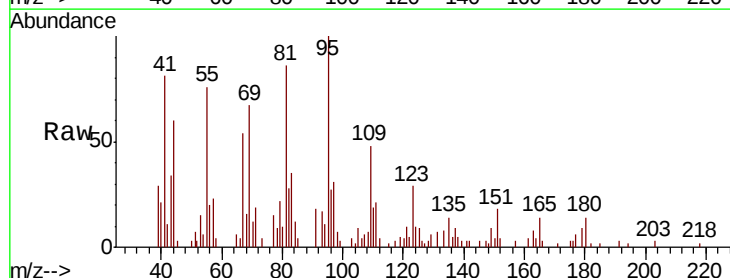
Tgt Ion:180 Resp: 1574

Ion Ratio Lower Upper

180 100

182 16.8 47.9 143.8#

145 19.4 18.6 55.8



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

