

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF040419\
 Data File : VF062164.D
 Acq On : 4 Apr 2019 18:32
 Operator : FY/SY
 Sample : VIBLK
 Misc : 5.00g/5mL/MSVOA_F/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 BFB

Quant Time: Apr 05 05:54:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F040419S.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 05 05:27:08 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.84	168	220367	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.57	114	354698	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.75	117	275962	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.54	152	138934	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.82	65	125710	48.60	ug/l	-0.01
Spiked Amount			Recovery	=	97.20%	
35) Dibromofluoromethane	4.09	113	125661	46.70	ug/l	0.00
Spiked Amount			Recovery	=	93.40%	
50) Toluene-d8	7.52	98	351977	45.00	ug/l	-0.01
Spiked Amount			Recovery	=	90.00%	
62) 4-Bromofluorobenzene	11.39	95	157306	49.77	ug/l	0.00
Spiked Amount			Recovery	=	99.54%	

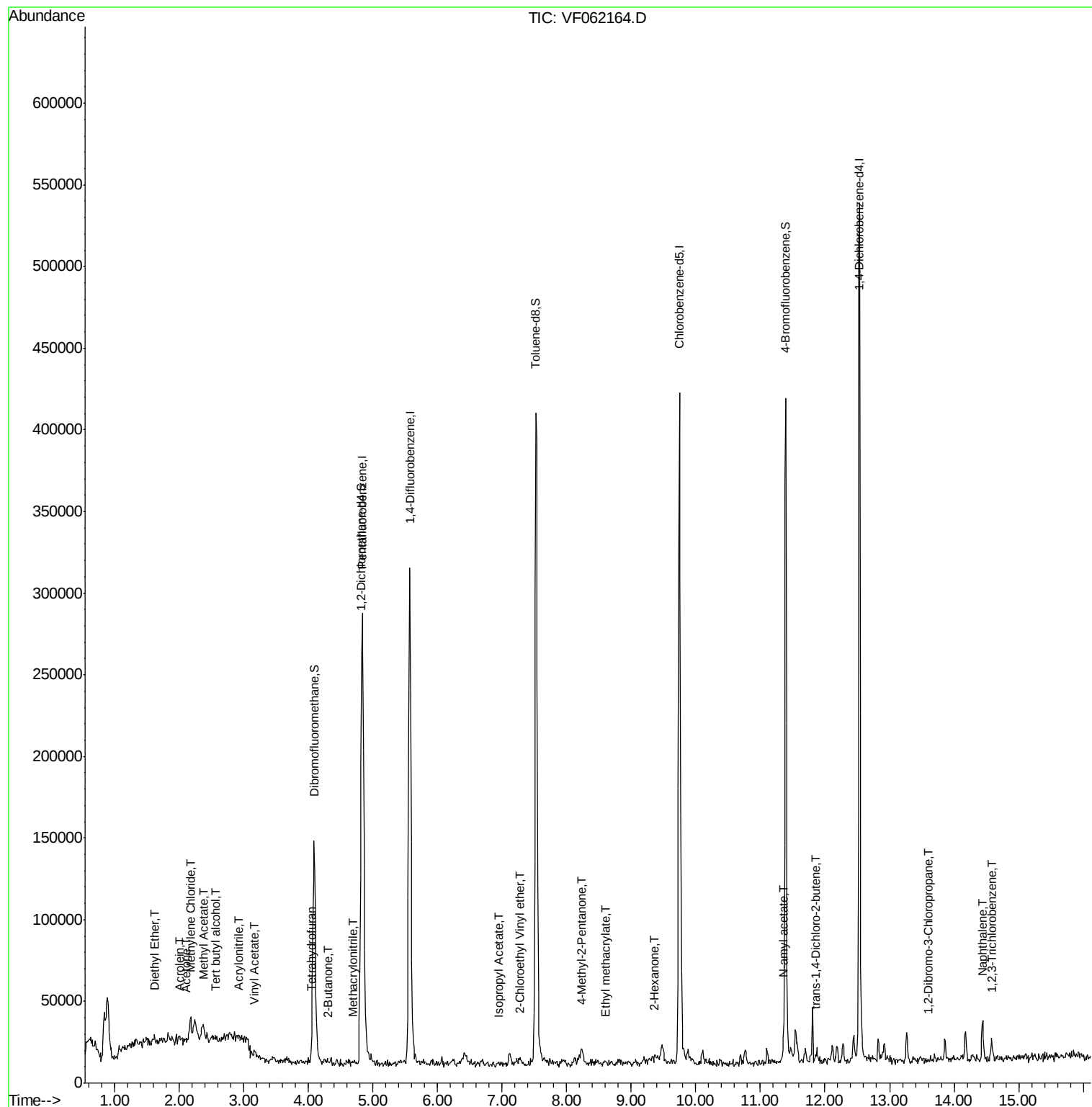
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.26	94	1018	Below Cal		92
8) Diethyl Ether	1.60	74	1323	1.628	ug/l	93
11) Tert butyl alcohol	2.56	59	1056	9.236	ug/l #	1
12) 1,1-Dichloroethene	1.78	96	296	Below Cal	#	1
13) Acrolein	1.99	56	613	5.039	ug/l	85
15) Acrylonitrile	2.91	53	1466	4.298	ug/l #	58
16) Acetone	2.10	43	1514	3.025	ug/l	95
18) Methyl Acetate	2.36	43	8278	7.222	ug/l #	77
20) Methylene Chloride	2.18	84	6336	2.288	ug/l #	78
23) Vinyl Acetate	3.16	43	10042	3.101	ug/l	99
25) 2-Butanone	4.31	43	3670	4.159	ug/l #	56
29) Tetrahydrofuran	4.04	42	3209	8.501	ug/l #	84
41) Methacrylonitrile	4.70	41	2346	2.375	ug/l #	55
43) Isopropyl Acetate	6.95	43	3732	1.880	ug/l #	68
48) Methyl methacrylate	6.70	41	1819	Below Cal	#	71
49) 1,4-Dioxane	6.67	88	69	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.24	43	11101	7.404	ug/l	98
56) Ethyl methacrylate	8.60	69	2604	1.255	ug/l #	72
58) 2-Chloroethyl Vinyl ether	7.28	63	1121	3.900	ug/l #	3
59) 2-Hexanone	9.36	43	1303	1.207	ug/l	90
74) N-amyl acetate	11.35	43	9047	2.879	ug/l #	92
81) trans-1,4-Dichloro-2-buten	11.85	75	984	1.707	ug/l #	59
92) 1,2-Dibromo-3-Chloropropan	13.60	75	603	1.513	ug/l #	1
95) Naphthalene	14.44	128	14920	2.821	ug/l	99
96) 1,2,3-Trichlorobenzene	14.58	180	3159	1.131	ug/l	97

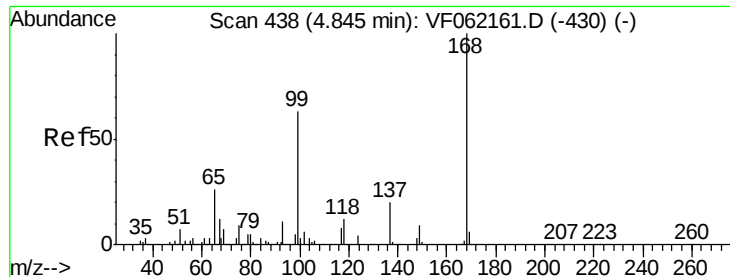
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Apr 05 05:27:08 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.84 min Scan# 438

Delta R.T. -0.00 min

Lab File: VF062164.D

Acq: 4 Apr 2019 18:32

Instrument :

MSVOA_F

ClientSampleId :

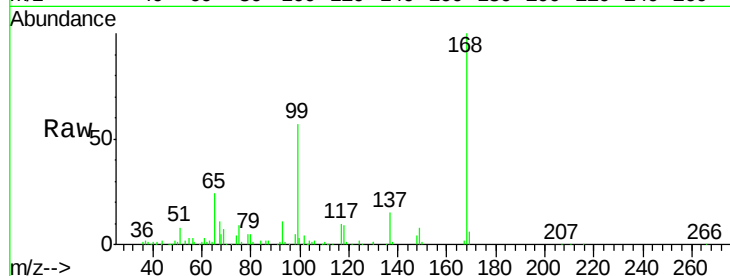
BFB

Tgt Ion:168 Resp: 220367

Ion Ratio Lower Upper

168 100

99 57.4 50.5 75.7



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.84

80000

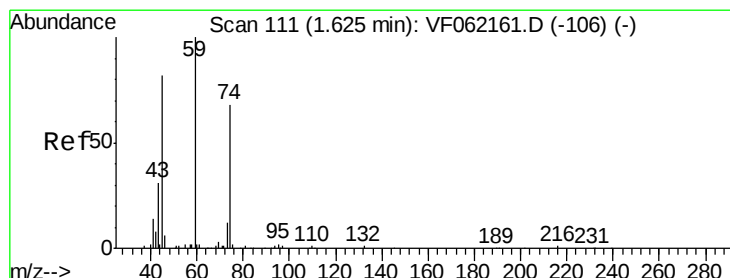
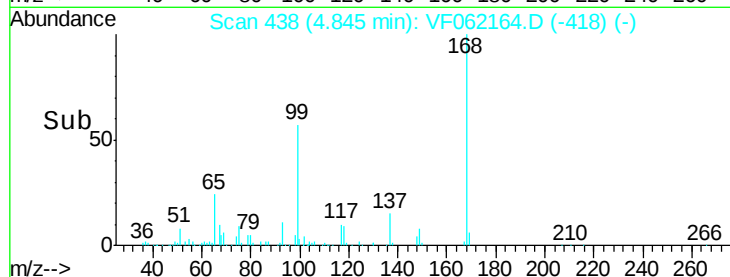
60000

40000

20000

0

Time-->



#8

Diethyl Ether

Concen: 1.628 ug/l

RT: 1.60 min Scan# 109

Delta R.T. -0.02 min

Lab File: VF062164.D

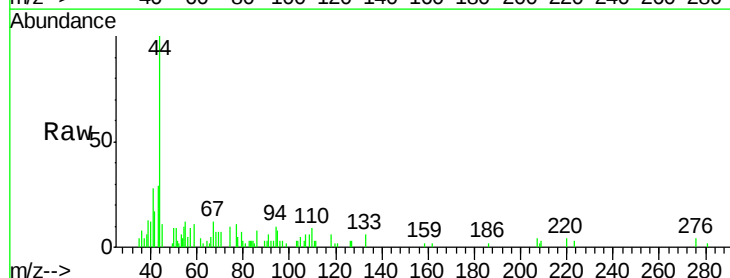
Acq: 4 Apr 2019 18:32

Tgt Ion: 74 Resp: 1323

Ion Ratio Lower Upper

74 100

45 116.1 61.9 185.6



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

1.60

1000

800

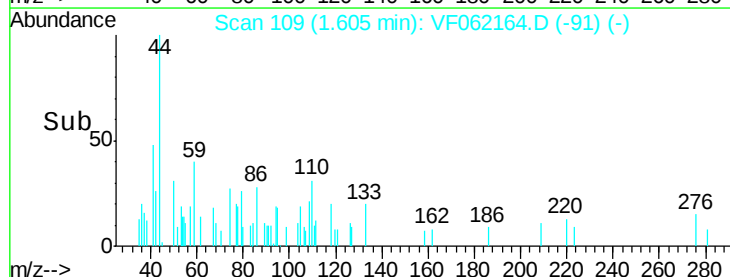
600

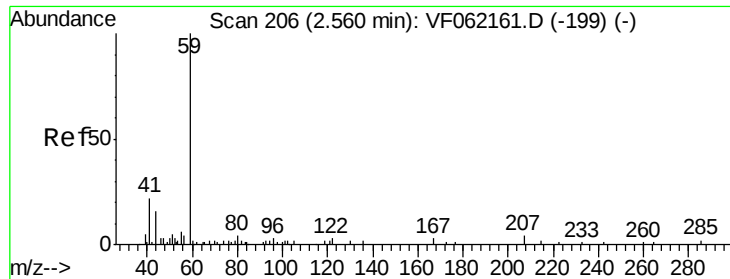
400

200

0

Time-->





#11

Tert butyl alcohol

Concen: 9.236 ug/l

RT: 2.56 min Scan# 206

Delta R.T. -0.00 min

Lab File: VF062164.D

Acq: 4 Apr 2019 18:32

Instrument :

MSVOA_F

ClientSampleId :

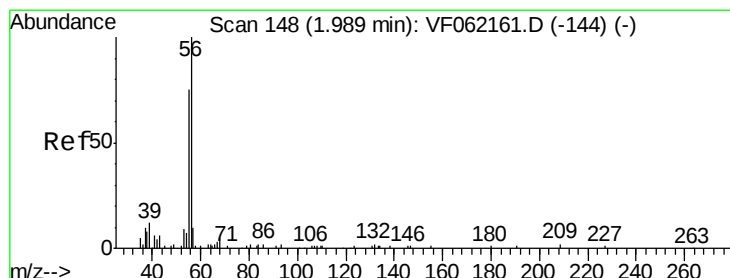
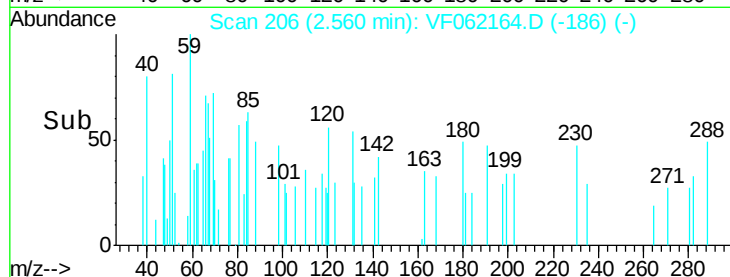
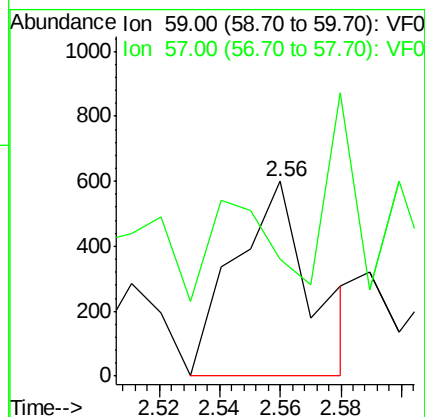
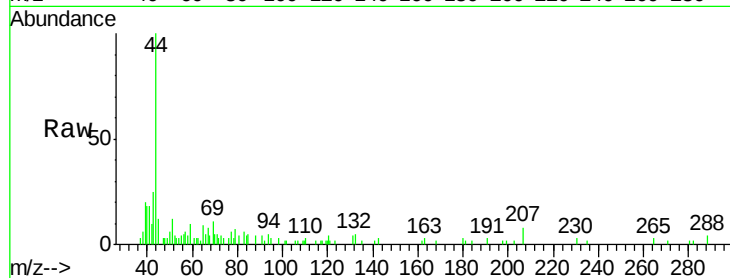
BFB

Tgt Ion: 59 Resp: 1056

Ion Ratio Lower Upper

59 100

57 60.1 9.5 14.3#



#13

Acrolein

Concen: 5.039 ug/l

RT: 1.99 min Scan# 148

Delta R.T. -0.00 min

Lab File: VF062164.D

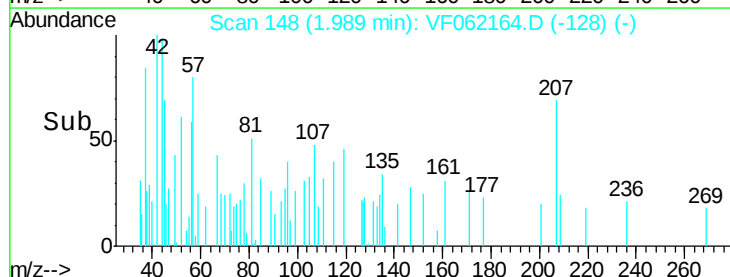
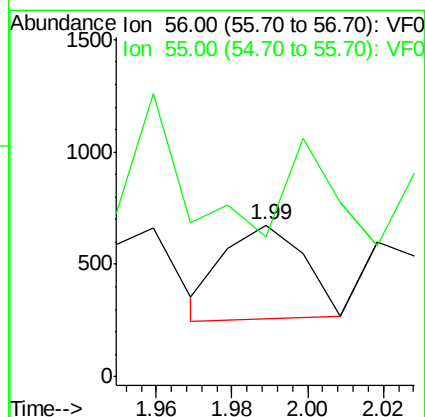
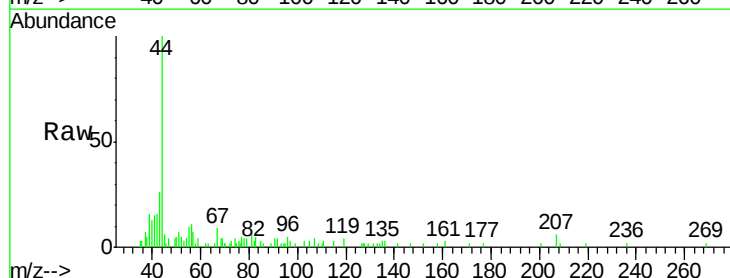
Acq: 4 Apr 2019 18:32

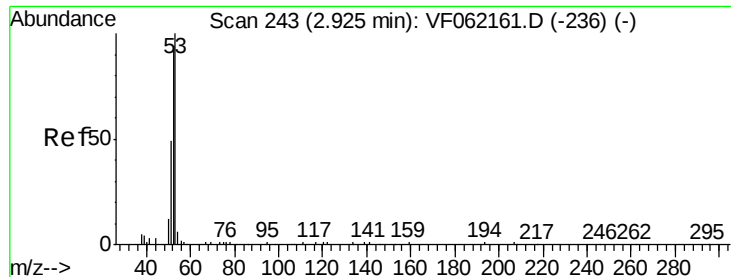
Tgt Ion: 56 Resp: 613

Ion Ratio Lower Upper

56 100

55 92.3 63.5 95.3





#15

Acrylonitrile

Concen: 4.298 ug/l

RT: 2.91 min Scan# 242

Delta R.T. -0.01 min

Lab File: VF062164.D

Acq: 4 Apr 2019 18:32

Instrument :

MSVOA_F

ClientSampled :

BFB

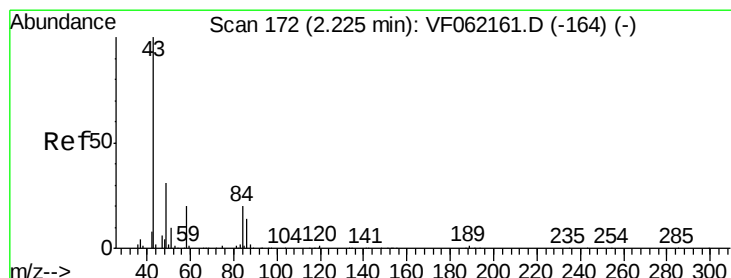
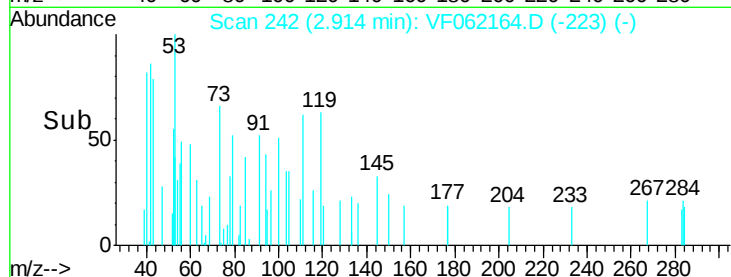
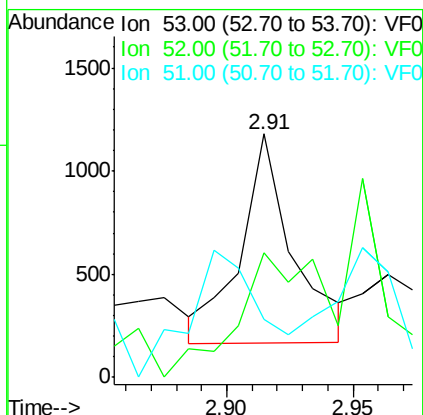
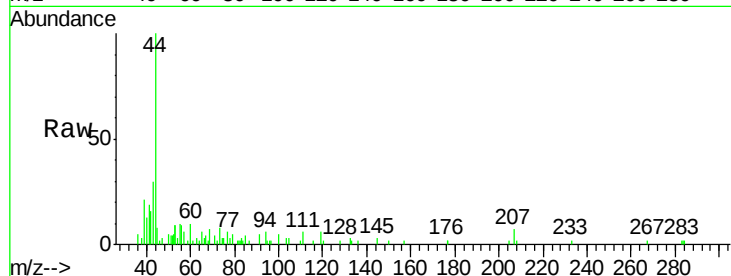
Tgt Ion: 53 Resp: 1466

Ion Ratio Lower Upper

53 100

52 51.4 75.5 113.3#

51 23.8 39.7 59.5#



#16

Acetone

Concen: 3.025 ug/l

RT: 2.10 min Scan# 159

Delta R.T. -0.13 min

Lab File: VF062164.D

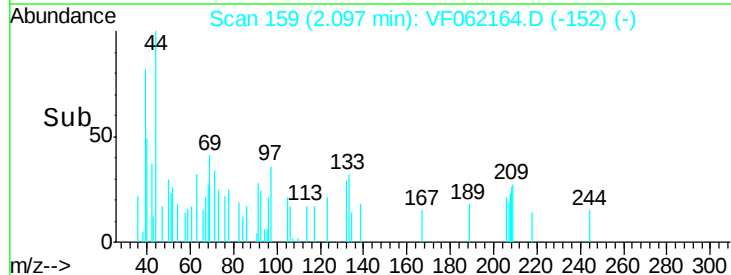
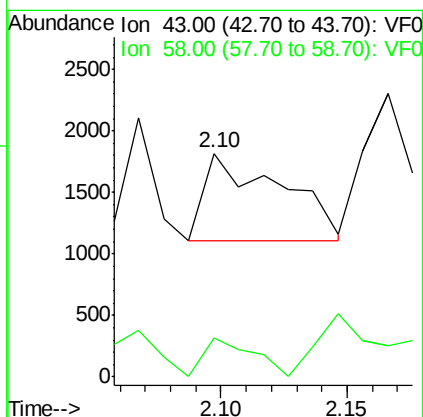
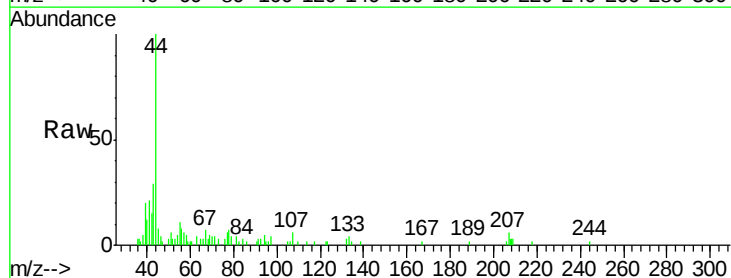
Acq: 4 Apr 2019 18:32

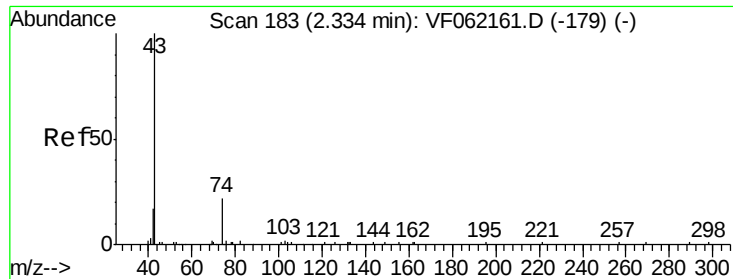
Tgt Ion: 43 Resp: 1514

Ion Ratio Lower Upper

43 100

58 17.4 15.7 23.5

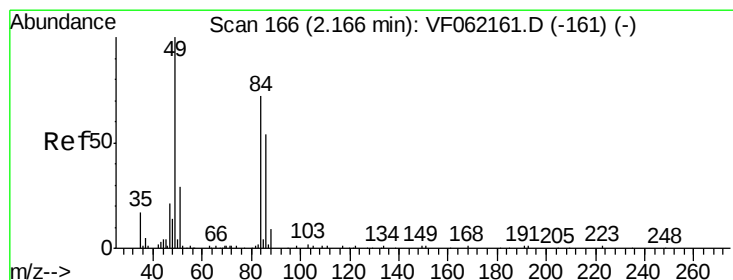
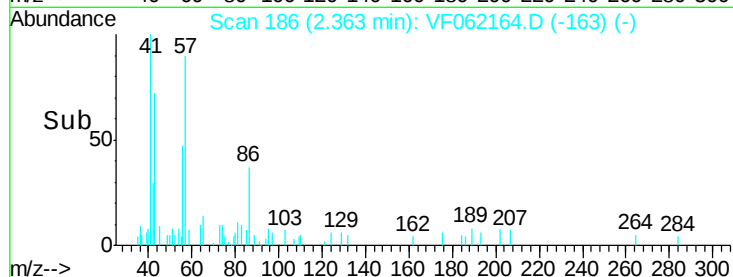
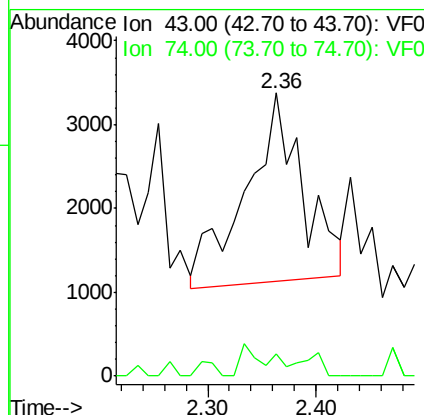
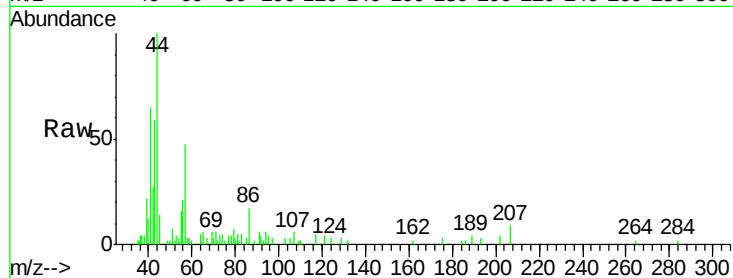




#18
Methyl Acetate
Concen: 7.222 ug/l
RT: 2.36 min Scan# 186
Delta R.T. 0.03 min
Lab File: VF062164.D
Acq: 4 Apr 2019 18:32

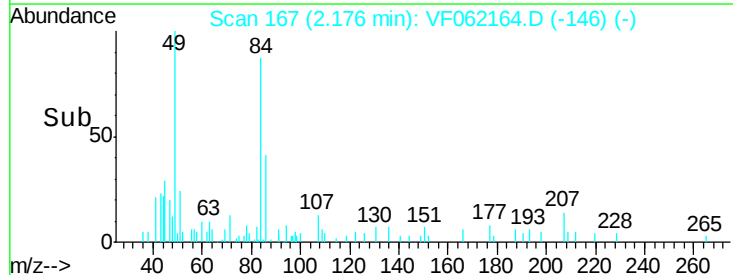
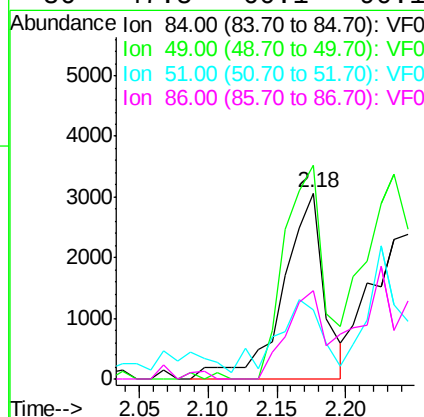
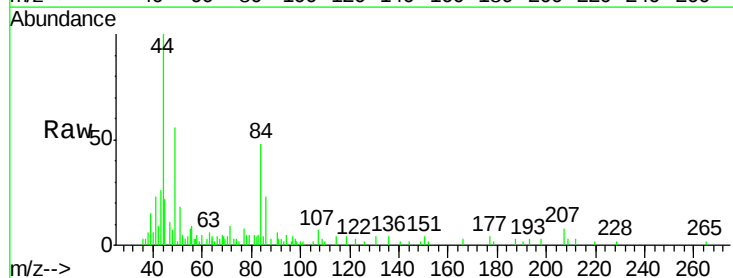
Instrument :
MSVOA_F
ClientSampleId :
BFB

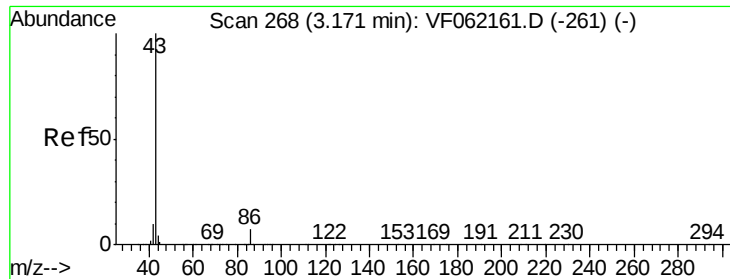
Tgt Ion: 43 Resp: 8278
Ion Ratio Lower Upper
43 100
74 7.8 14.3 21.5#



#20
Methylene Chloride
Concen: 2.288 ug/l
RT: 2.18 min Scan# 167
Delta R.T. 0.01 min
Lab File: VF062164.D
Acq: 4 Apr 2019 18:32

Tgt Ion: 84 Resp: 6336
Ion Ratio Lower Upper
84 100
49 115.1 112.6 168.8
51 37.1 33.4 50.2
86 47.5 60.1 90.1#





#23

Vinyl Acetate

Concen: 3.101 ug/l

RT: 3.16 min Scan# 267

Delta R.T. -0.01 min

Lab File: VF062164.D

Acq: 4 Apr 2019 18:32

Instrument :

MSVOA_F

ClientSampled :

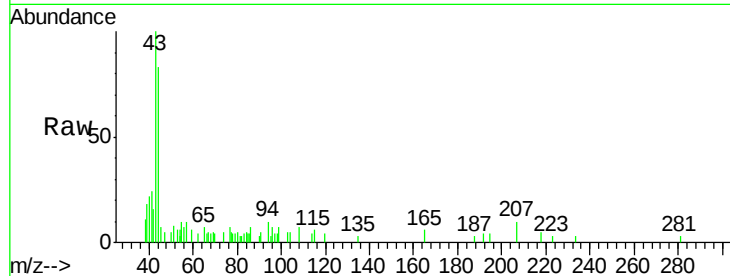
BFB

Tgt Ion: 43 Resp: 10042

Ion Ratio Lower Upper

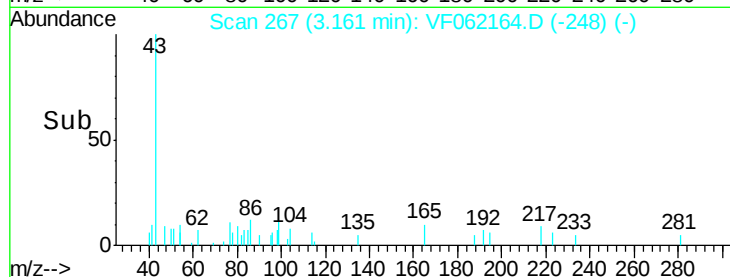
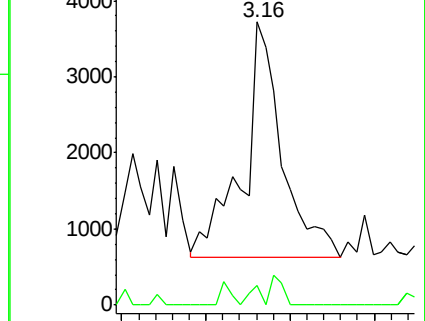
43 100

86 6.8 5.7 8.5

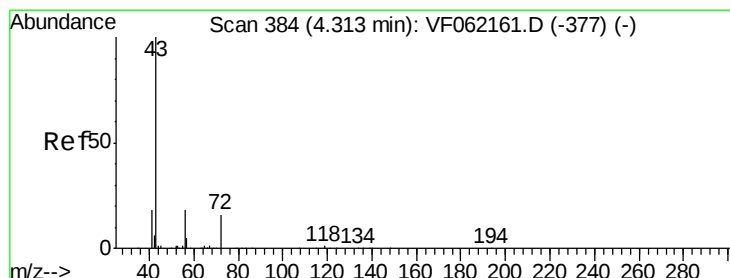


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



Time-->



#25

2-Butanone

Concen: 4.159 ug/l

RT: 4.31 min Scan# 384

Delta R.T. -0.00 min

Lab File: VF062164.D

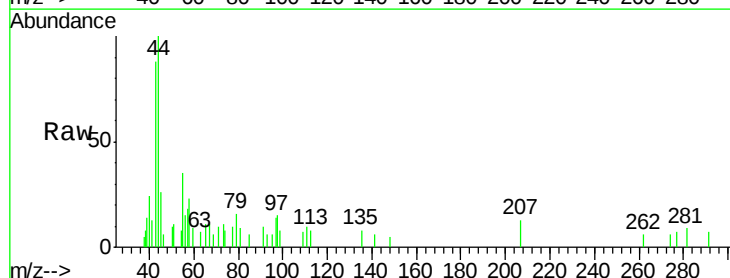
Acq: 4 Apr 2019 18:32

Tgt Ion: 43 Resp: 3670

Ion Ratio Lower Upper

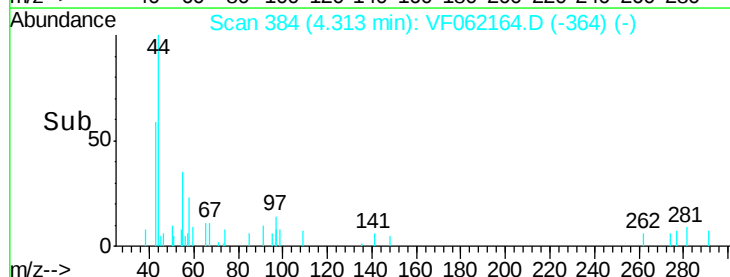
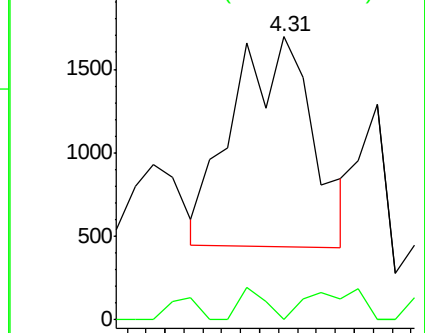
43 100

72 0.0 16.4 24.6#

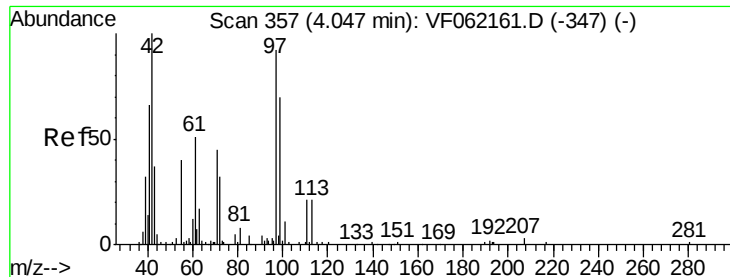


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



Time-->



#29

Tetrahydrofuran

Concen: 8.501 ug/l

RT: 4.04 min Scan# 356

Delta R.T. -0.01 min

Lab File: VF062164.D

Acq: 4 Apr 2019 18:32

Instrument :

MSVOA_F

ClientSampled :

BFB

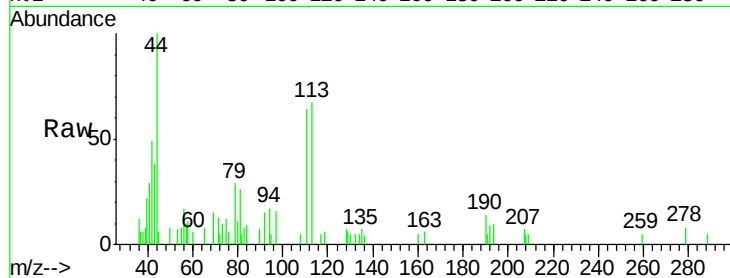
Tgt Ion: 42 Resp: 3209

Ion Ratio Lower Upper

42 100

72 20.7 30.9 46.3#

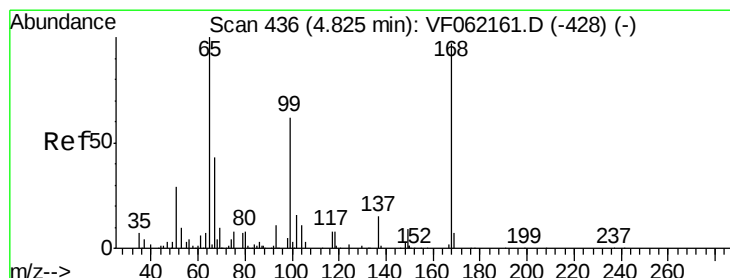
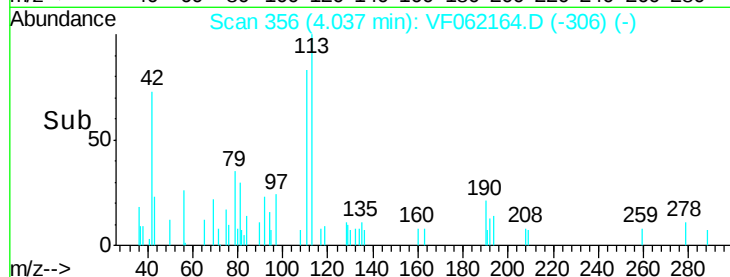
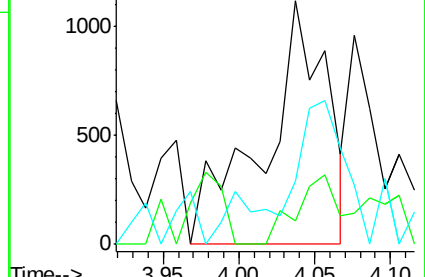
71 42.2 32.0 48.0



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: 48.605 ug/l

RT: 4.82 min Scan# 435

Delta R.T. -0.01 min

Lab File: VF062164.D

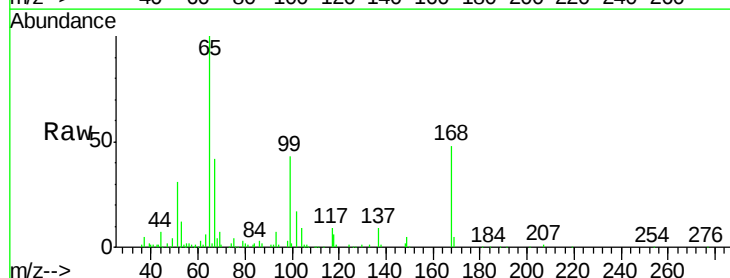
Acq: 4 Apr 2019 18:32

Tgt Ion: 65 Resp: 125710

Ion Ratio Lower Upper

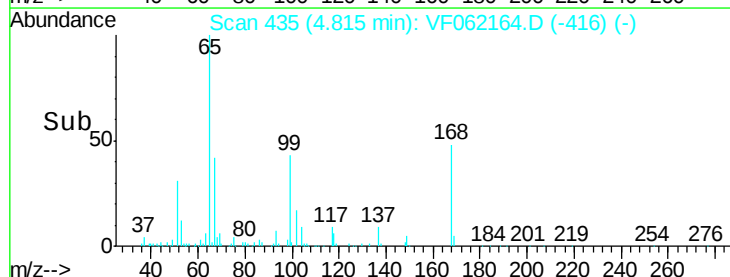
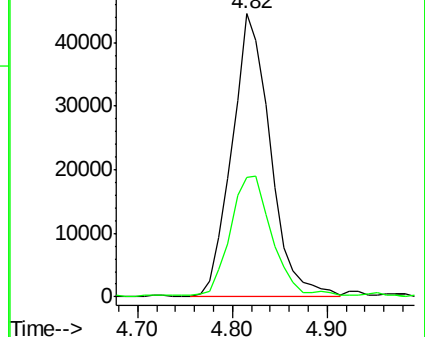
65 100

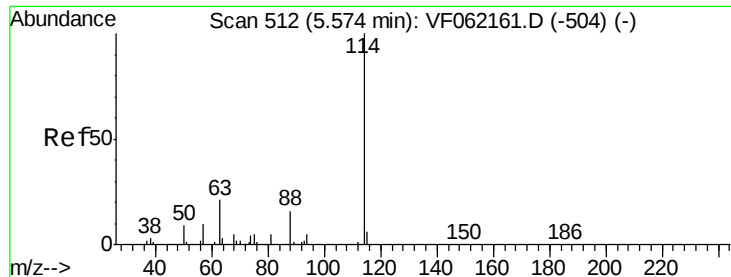
67 42.1 0.0 96.0



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: 5.57 min Scan# 512

Delta R.T. -0.00 min

Lab File: VF062164.D

Acq: 4 Apr 2019 18:32

Instrument :

MSVOA_F

ClientSampleId :

BFB

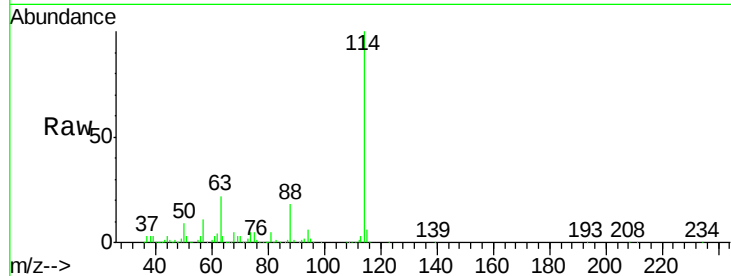
Tgt Ion:114 Resp: 354698

Ion Ratio Lower Upper

114 100

63 21.8 0.0 41.8

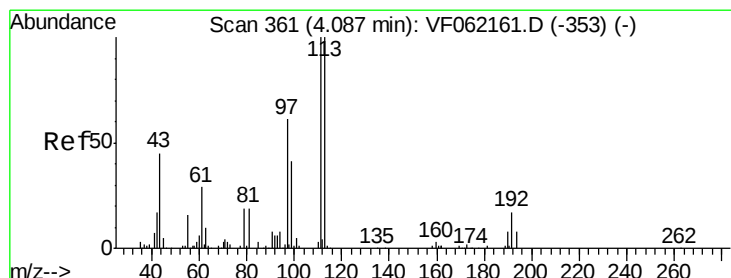
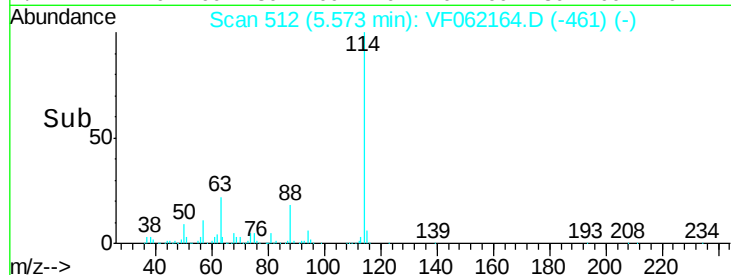
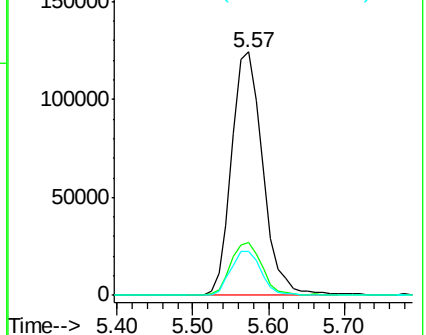
88 17.9 0.0 31.4



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: 46.701 ug/l

RT: 4.09 min Scan# 361

Delta R.T. -0.00 min

Lab File: VF062164.D

Acq: 4 Apr 2019 18:32

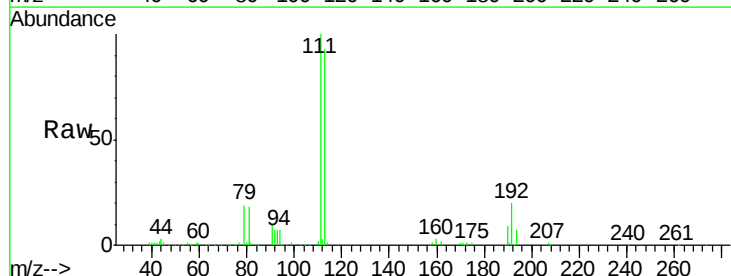
Tgt Ion:113 Resp: 125661

Ion Ratio Lower Upper

113 100

111 107.0 79.8 119.6

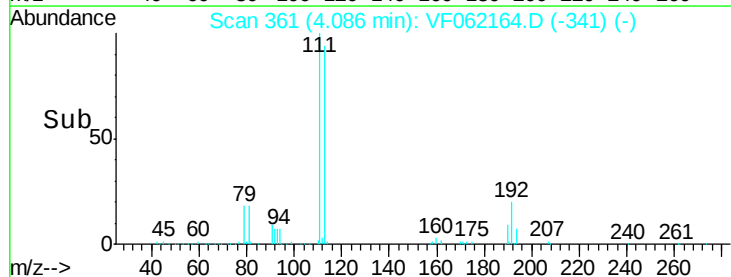
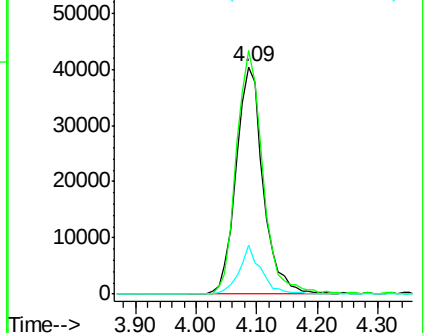
192 21.6 13.8 20.6#

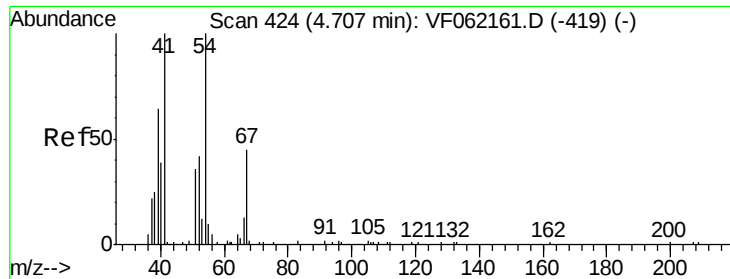


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#41

Methacrylonitrile

Concen: 2.375 ug/l

RT: 4.70 min Scan# 423

Delta R.T. -0.01 min

Lab File: VF062164.D

Acq: 4 Apr 2019 18:32

Instrument :

MSVOA_F

ClientSampled :

BFB

Tgt Ion: 41 Resp: 2346

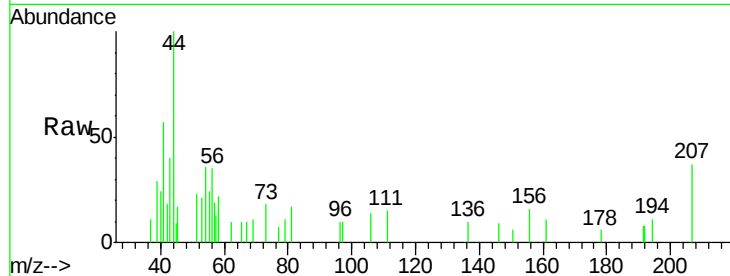
Ion Ratio Lower Upper

41 100

39 50.1 56.5 84.7#

67 17.1 35.7 53.5#

52 0.0 42.2 63.4#

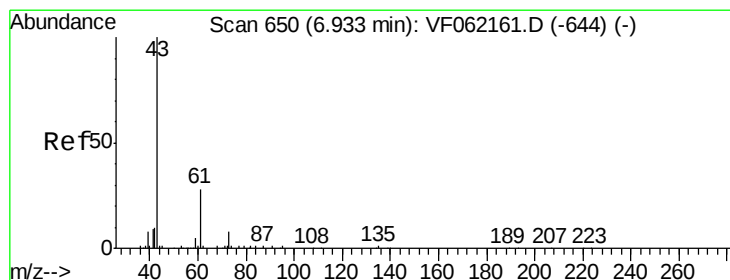
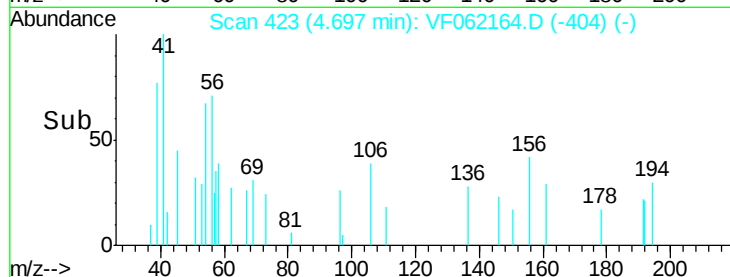
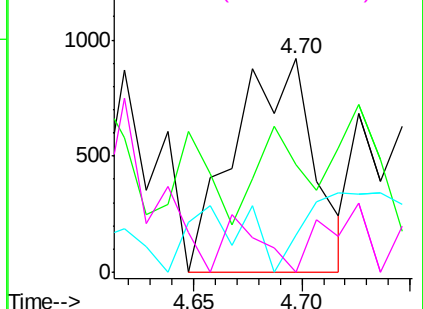


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#43

Isopropyl Acetate

Concen: 1.880 ug/l

RT: 6.95 min Scan# 652

Delta R.T. 0.02 min

Lab File: VF062164.D

Acq: 4 Apr 2019 18:32

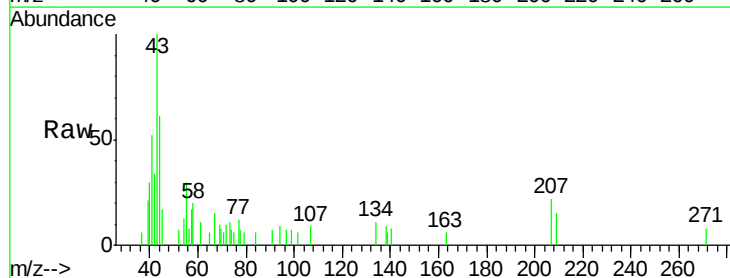
Tgt Ion: 43 Resp: 3732

Ion Ratio Lower Upper

43 100

61 10.8 22.5 33.7#

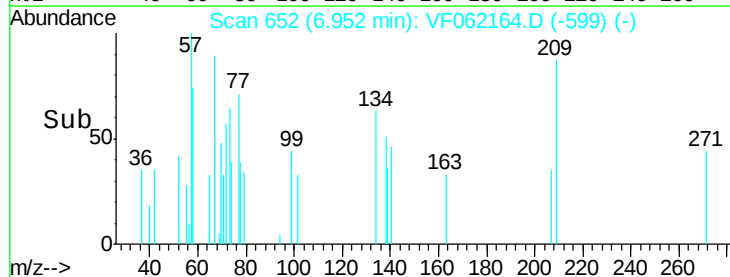
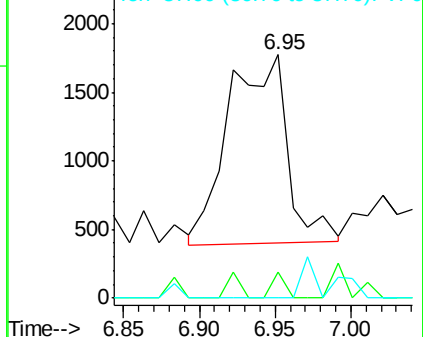
87 0.0 0.5 0.7#

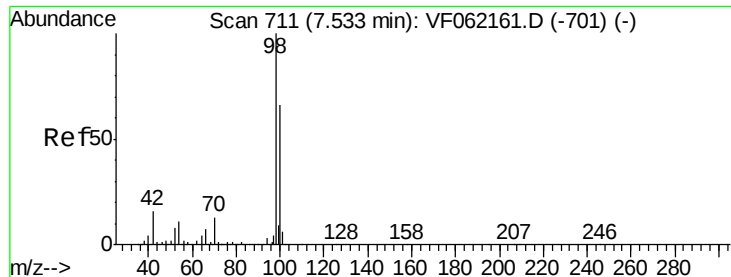


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#50

Toluene-d8

Concen: 44.997 ug/l

RT: 7.52 min Scan# 710

Delta R.T. -0.01 min

Lab File: VF062164.D

Acq: 4 Apr 2019 18:32

Instrument :

MSVOA_F

ClientSampleId :

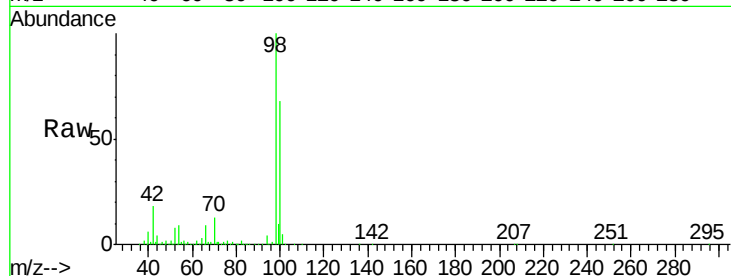
BFB

Tgt Ion: 98 Resp: 351977

Ion Ratio Lower Upper

98 100

100 67.6 52.6 78.8



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.52

150000

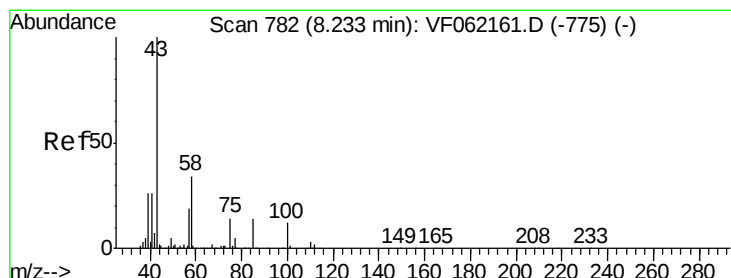
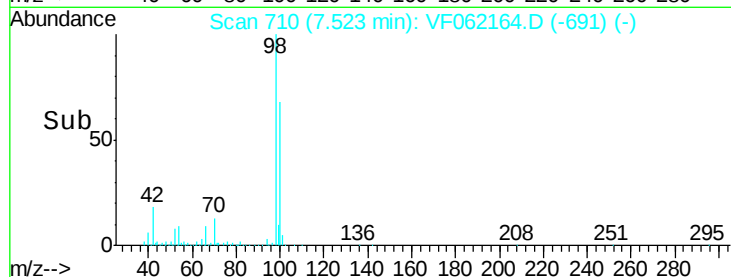
100000

50000

0

7.40 7.50 7.60

Time-->



#51

4-Methyl-2-Pentanone

Concen: 7.404 ug/l

RT: 8.24 min Scan# 783

Delta R.T. 0.01 min

Lab File: VF062164.D

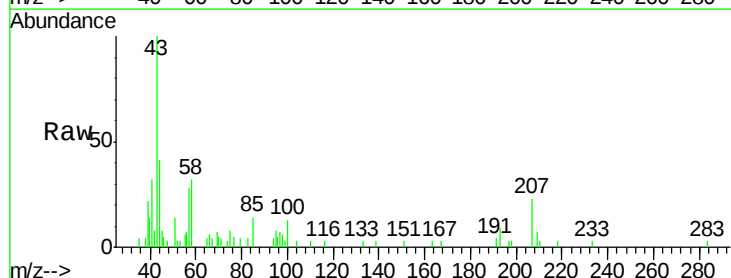
Acq: 4 Apr 2019 18:32

Tgt Ion: 43 Resp: 11101

Ion Ratio Lower Upper

43 100

58 32.4 27.0 40.4



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.24

4000

3000

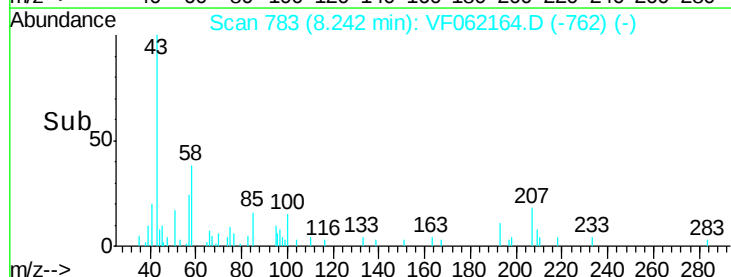
2000

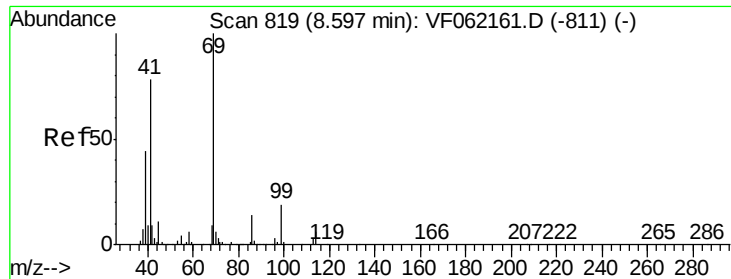
1000

0

8.15 8.20 8.25 8.30 8.35

Time-->





#56

Ethyl methacrylate

Concen: 1.255 ug/l

RT: 8.60 min Scan# 819

Delta R.T. -0.00 min

Lab File: VF062164.D

Acq: 4 Apr 2019 18:32

Instrument :

MSVOA_F

ClientSampleId :

BFB

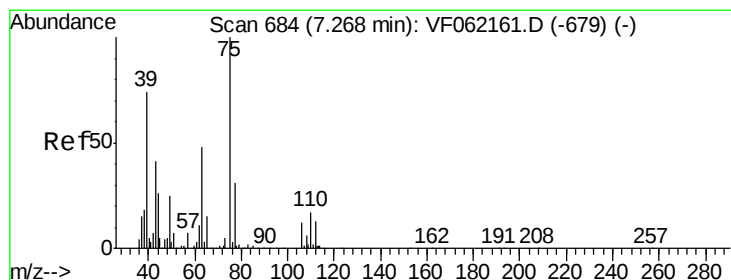
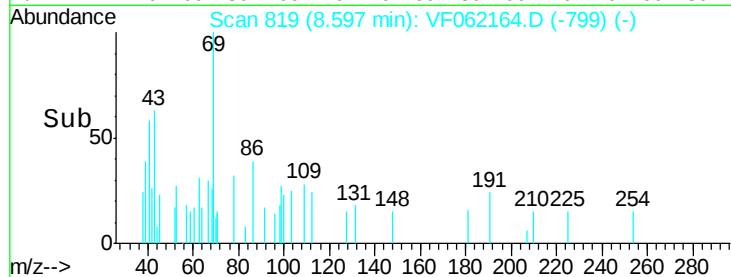
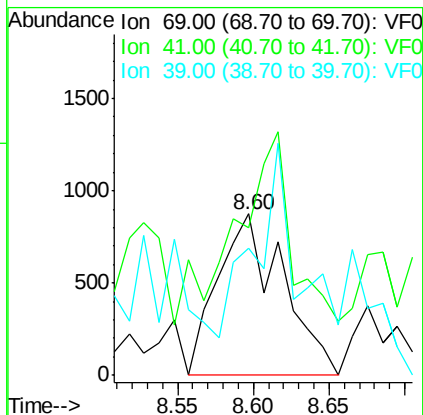
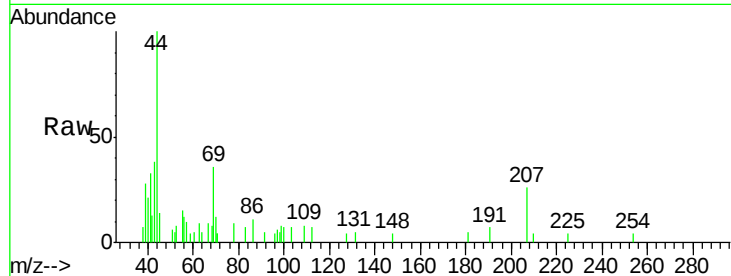
Tgt Ion: 69 Resp: 2604

Ion Ratio Lower Upper

69 100

41 91.3 63.0 94.4

39 79.0 36.1 54.1#



#58

2-Chloroethyl Vinyl ether

Concen: 3.900 ug/l

RT: 7.28 min Scan# 685

Delta R.T. 0.01 min

Lab File: VF062164.D

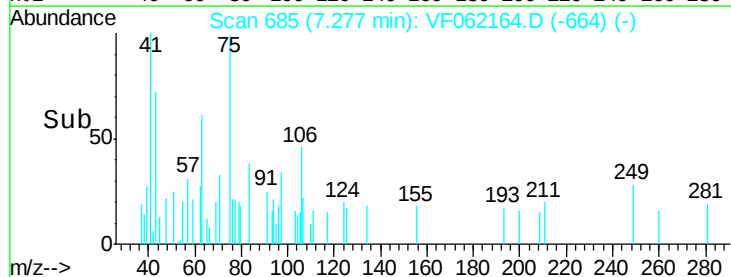
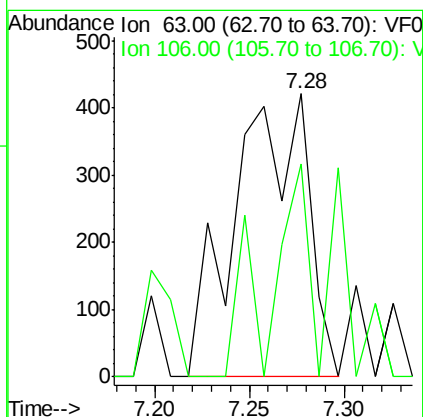
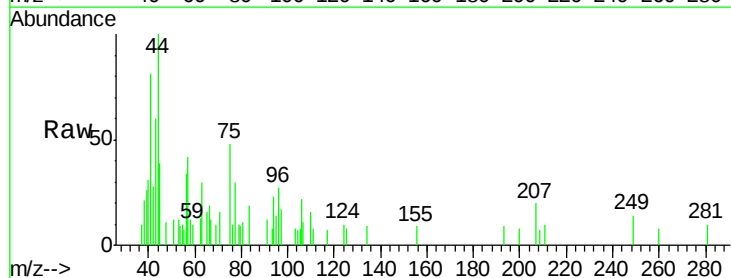
Acq: 4 Apr 2019 18:32

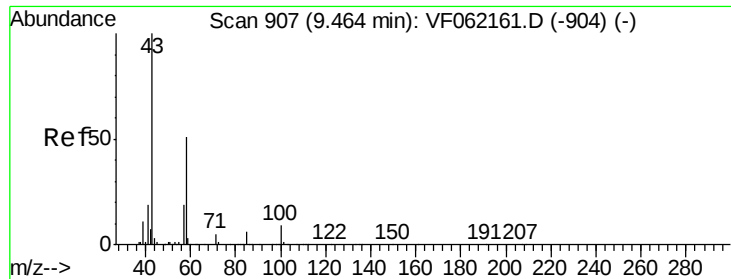
Tgt Ion: 63 Resp: 1121

Ion Ratio Lower Upper

63 100

106 75.1 20.6 31.0#





#59

2-Hexanone

Concen: 1.207 ug/l

RT: 9.36 min Scan# 897

Delta R.T. -0.10 min

Lab File: VF062164.D

Acq: 4 Apr 2019 18:32

Instrument :

MSVOA_F

ClientSampleId :

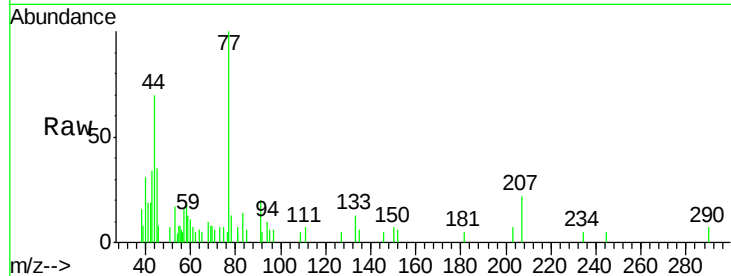
BFB

Tgt Ion: 43 Resp: 1303

Ion Ratio Lower Upper

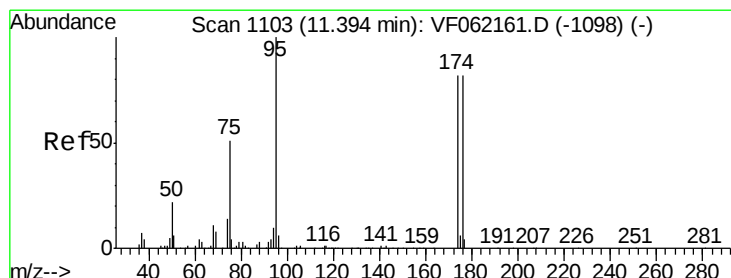
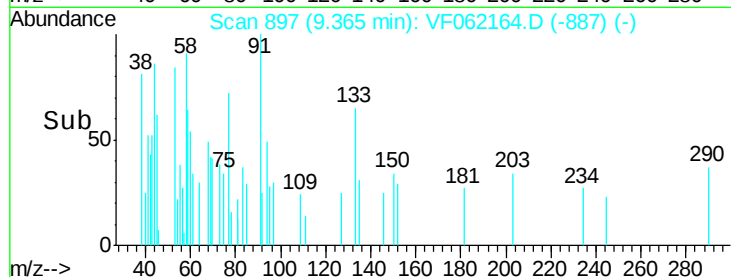
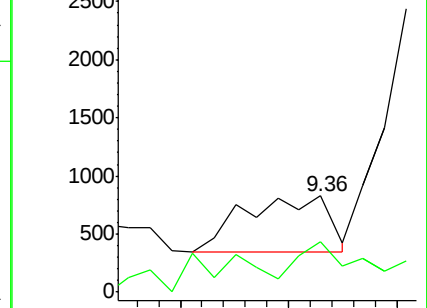
43 100

58 53.1 23.3 69.9



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#62

4-Bromofluorobenzene

Concen: 49.769 ug/l

RT: 11.39 min Scan# 1103

Delta R.T. -0.00 min

Lab File: VF062164.D

Acq: 4 Apr 2019 18:32

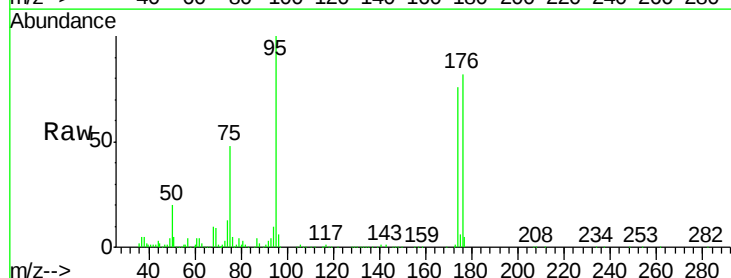
Tgt Ion: 95 Resp: 157306

Ion Ratio Lower Upper

95 100

174 75.7 0.0 164.8

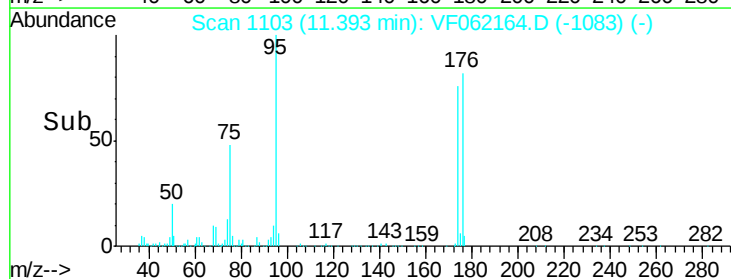
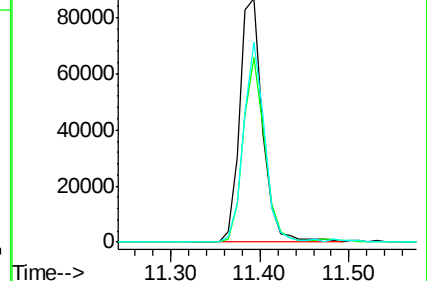
176 82.4 0.0 164.6

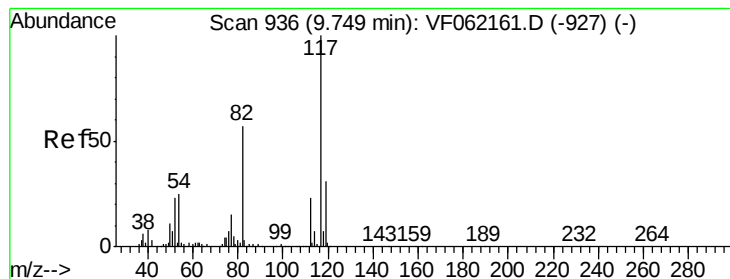


Abundance Ion 95.00 (94.70 to 95.70): VF0

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: 9.75 min Scan# 936

Delta R.T. -0.00 min

Lab File: VF062164.D

Acq: 4 Apr 2019 18:32

Instrument :

MSVOA_F

ClientSampleId :

BFB

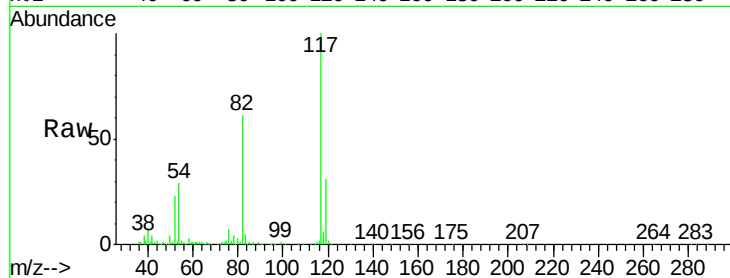
Tgt Ion:117 Resp: 275962

Ion Ratio Lower Upper

117 100

82 60.7 45.5 68.3

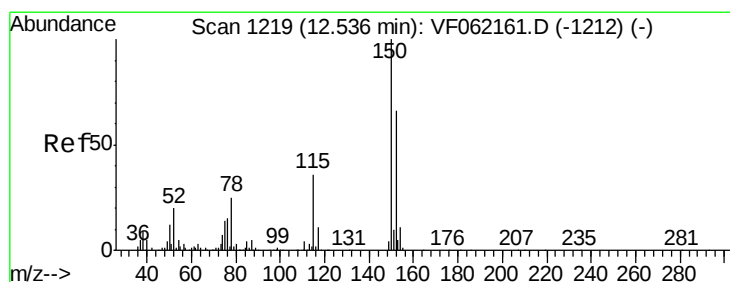
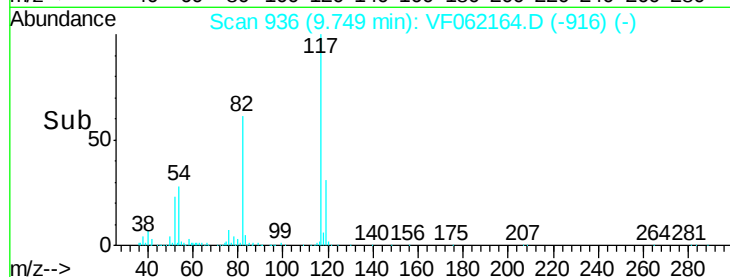
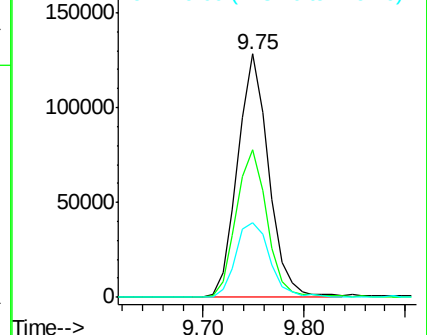
119 30.8 24.9 37.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.54 min Scan# 1219

Delta R.T. -0.00 min

Lab File: VF062164.D

Acq: 4 Apr 2019 18:32

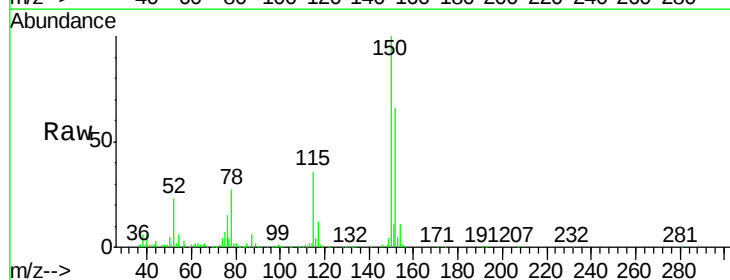
Tgt Ion:152 Resp: 138934

Ion Ratio Lower Upper

152 100

115 55.2 28.3 84.9

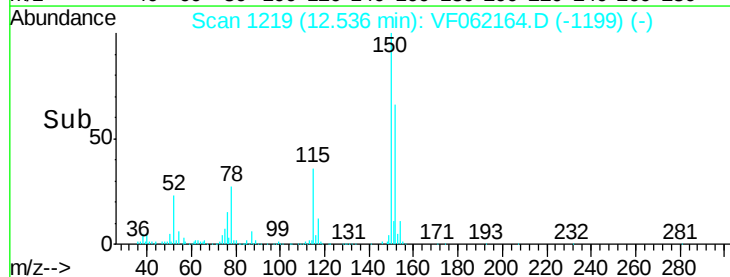
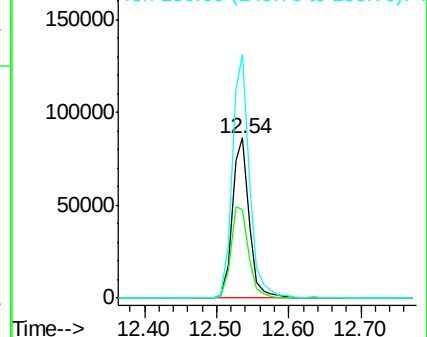
150 152.3 0.0 322.6

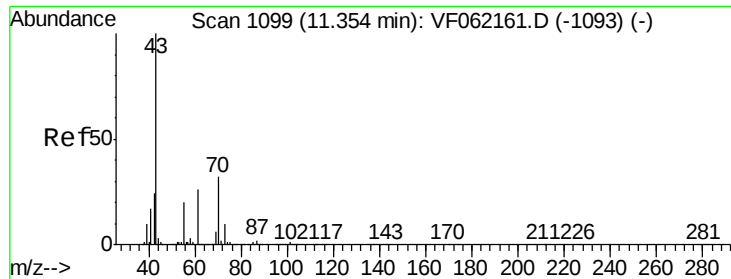


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#74

N-amyI acetate

Concen: 2.879 ug/l

RT: 11.35 min Scan# 1099

Delta R.T. -0.00 min

Lab File: VF062164.D

Acq: 4 Apr 2019 18:32

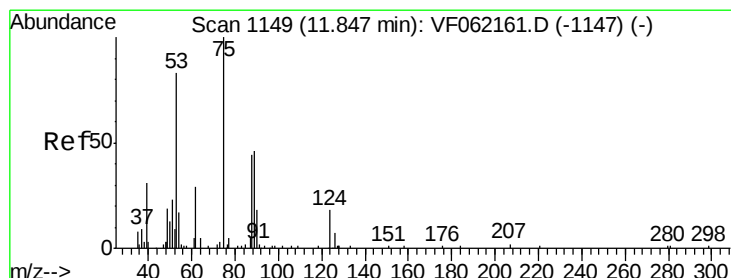
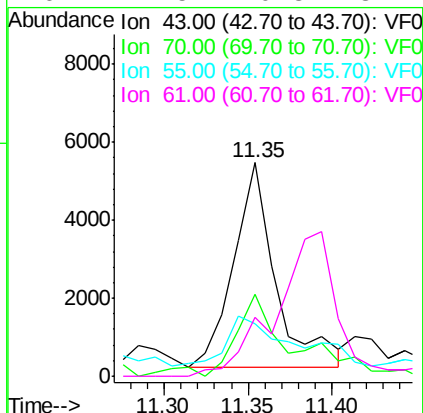
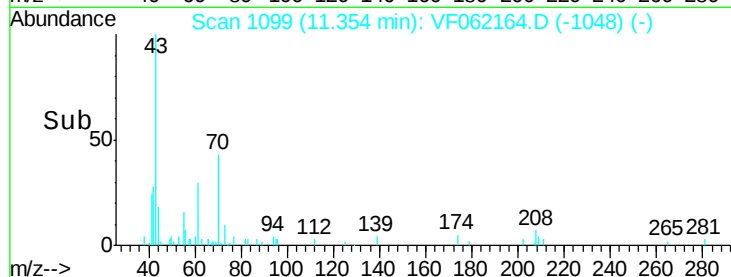
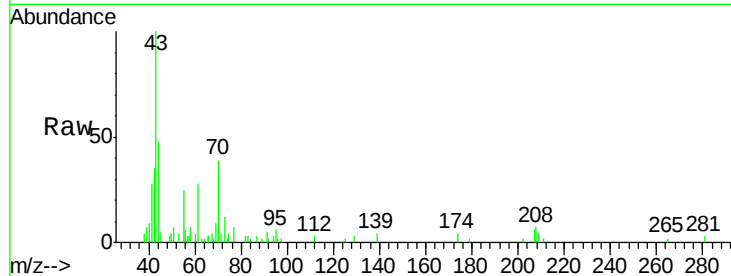
Instrument :

MSVOA_F

ClientSampleId :

BFB

Tgt Ion:	43	Resp:	9047
Ion	Ratio	Lower	Upper
43	100		
70	38.5	25.9	38.9
55	24.6	16.3	24.5#
61	27.5	20.8	31.2



#81

trans-1,4-Dichloro-2-butene

Concen: 1.707 ug/l

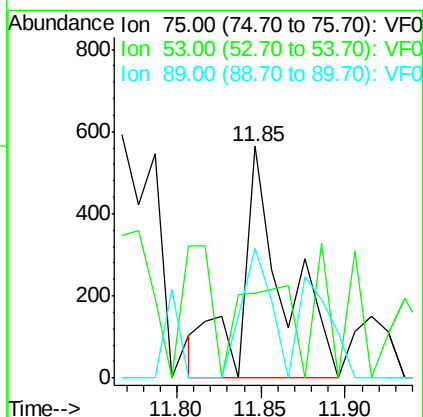
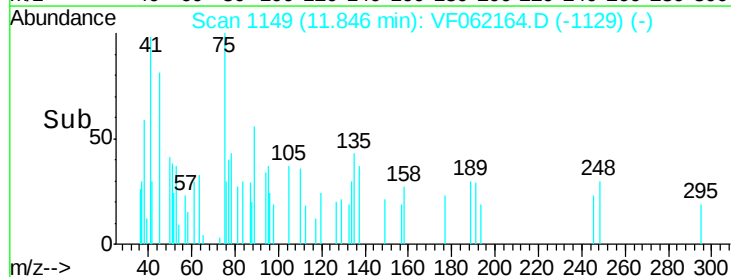
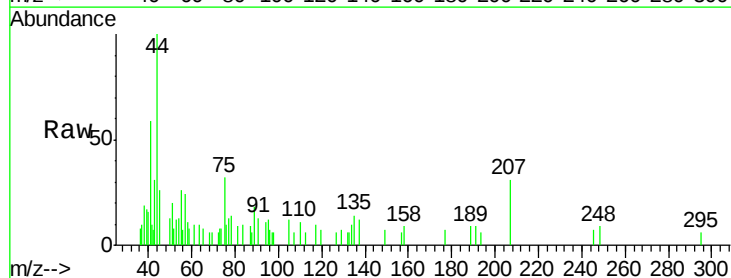
RT: 11.85 min Scan# 1149

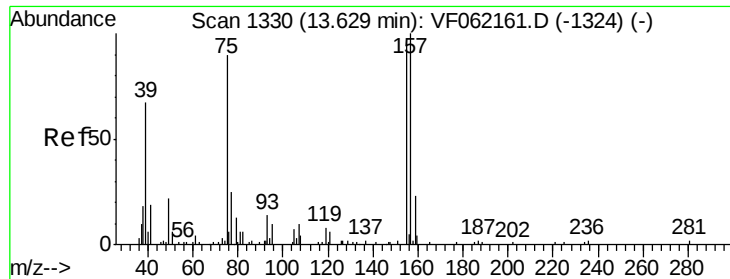
Delta R.T. -0.00 min

Lab File: VF062164.D

Acq: 4 Apr 2019 18:32

Tgt Ion:	75	Resp:	984
Ion	Ratio	Lower	Upper
75	100		
53	36.7	71.4	107.0#
89	56.2	37.9	56.9





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.513 ug/l

RT: 13.60 min Scan# 1327

Delta R.T. -0.03 min

Lab File: VF062164.D

Acq: 4 Apr 2019 18:32

Instrument :

MSVOA_F

ClientSampleId :

BFB

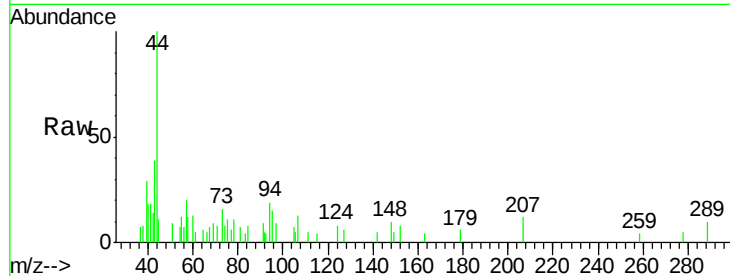
Tgt Ion: 75 Resp: 603

Ion Ratio Lower Upper

75 100

155 0.0 52.8 158.3#

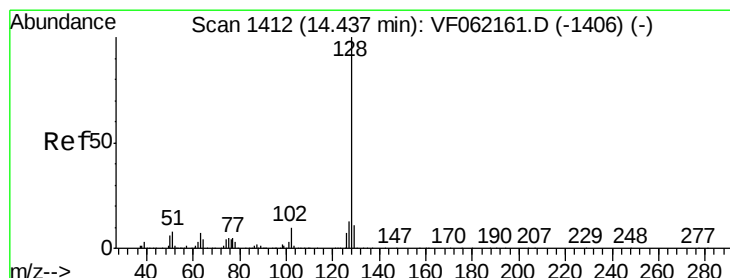
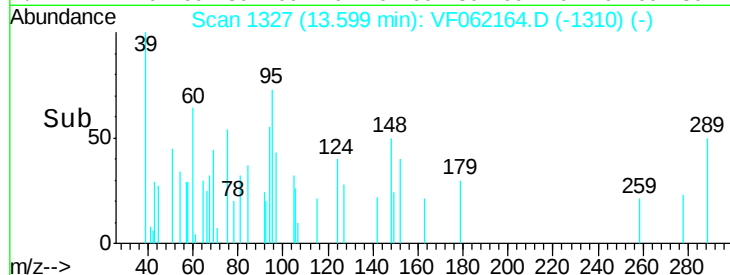
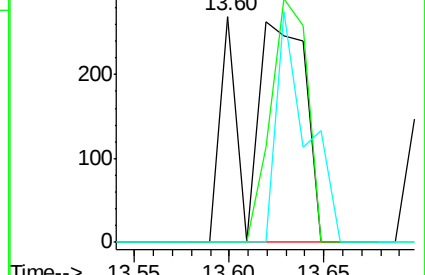
157 0.0 55.7 167.1#



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



#95

Naphthalene

Concen: 2.821 ug/l

RT: 14.44 min Scan# 1412

Delta R.T. -0.00 min

Lab File: VF062164.D

Acq: 4 Apr 2019 18:32

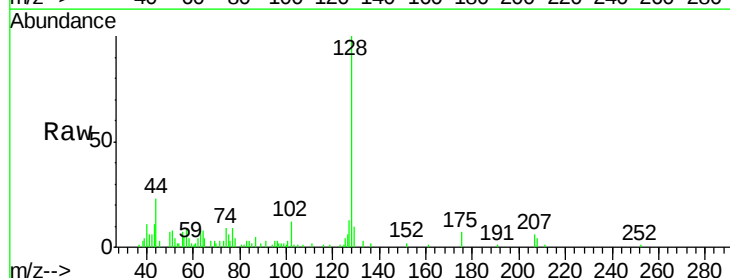
Tgt Ion: 128 Resp: 14920

Ion Ratio Lower Upper

128 100

127 13.2 10.2 15.2

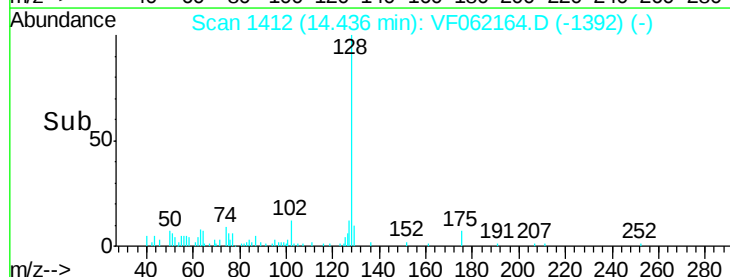
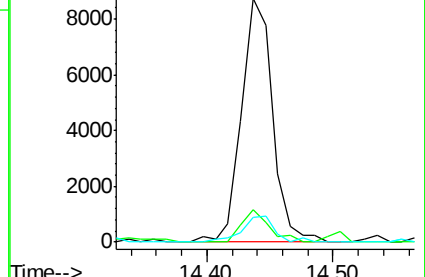
129 10.2 8.4 12.6

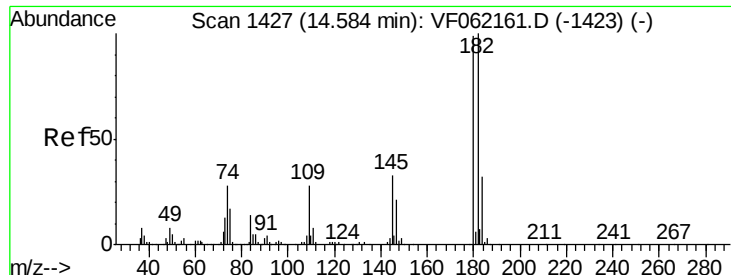


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

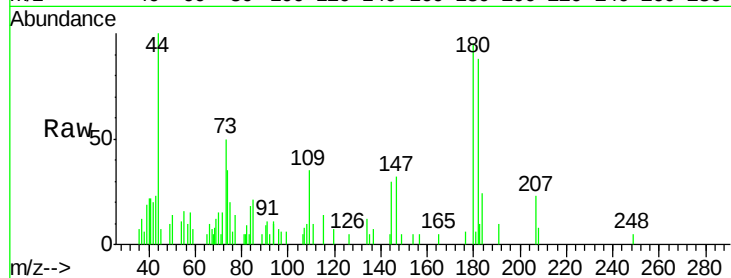




#96
 1,2,3-Trichlorobenzene
 Concen: 1.131 ug/l
 RT: 14.58 min Scan# 1427
 Delta R.T. -0.00 min
 Lab File: VF062164.D
 Acq: 4 Apr 2019 18:32

Instrument :
 MSVOA_F
 ClientSampleId :
 BFB

Tgt Ion:180 Resp: 3159
 Ion Ratio Lower Upper
 180 100
 182 103.0 50.4 151.2
 145 31.3 16.7 50.1



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

