

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF020719\
 Data File : VF061554.D
 Acq On : 7 Feb 2019 19:37
 Operator : VA/AP
 Sample : K1404-05
 Misc : 5.04g/5mL/MSVOA-F/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Feb 09 04:37:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 04:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	154437	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.59	114	295612	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	273667	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	153359	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	112722	59.12	ug/l	0.00
Spiked Amount			Recovery	=	118.24%	
35) Dibromofluoromethane	4.11	113	118388	50.75	ug/l	0.00
Spiked Amount			Recovery	=	101.50%	
50) Toluene-d8	7.56	98	301514	47.18	ug/l	0.00
Spiked Amount			Recovery	=	94.36%	
62) 4-Bromofluorobenzene	11.41	95	145219	48.63	ug/l	0.00
Spiked Amount			Recovery	=	97.26%	

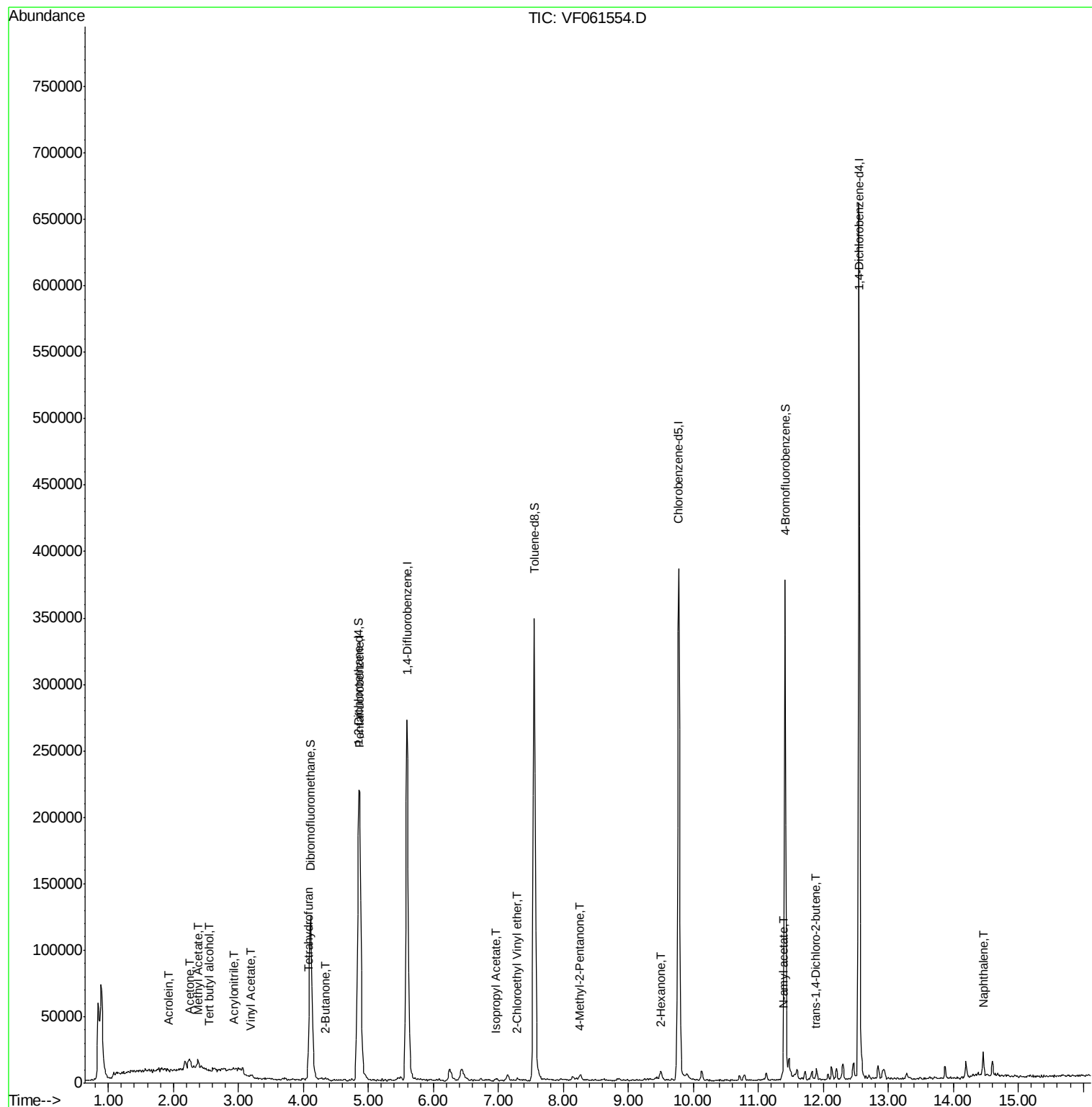
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.56	59	265	3.283	ug/l #	64
13) Acrolein	1.93	56	469	16.804	ug/l	88
14) Allyl chloride	2.10	41	524	Below Cal	#	74
15) Acrylonitrile	2.94	53	1461	7.067	ug/l #	84
16) Acetone	2.24	43	3050	7.974	ug/l #	91
18) Methyl Acetate	2.38	43	3875	5.108	ug/l #	61
23) Vinyl Acetate	3.19	43	1998	4.111	ug/l #	78
25) 2-Butanone	4.33	43	2988	4.697	ug/l #	89
29) Tetrahydrofuran	4.07	42	1793	6.546	ug/l	97
43) Isopropyl Acetate	6.96	43	2311	1.344	ug/l #	51
49) 1,4-Dioxane	6.53	88	115	Below Cal	#	19
51) 4-Methyl-2-Pentanone	8.26	43	5273	4.171	ug/l	89
58) 2-Chloroethyl Vinyl ether	7.29	63	733	31.267	ug/l #	89
59) 2-Hexanone	9.50	43	5923	6.719	ug/l	83
74) N-amyl acetate	11.37	43	4101	1.390	ug/l #	83
81) trans-1,4-Dichloro-2-buten	11.88	75	772	1.112	ug/l #	45
95) Naphthalene	14.45	128	11477	1.750	ug/l #	93

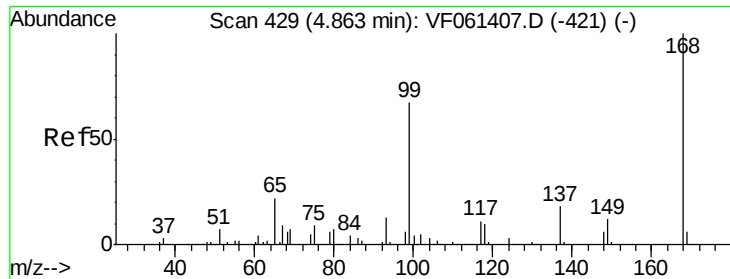
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jan 16 04:51:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. 0.01 min

Lab File: VF061554.D

Acq: 7 Feb 2019 19:37

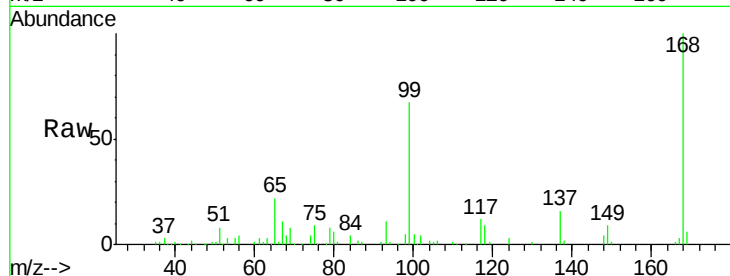
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 154437

Ion Ratio Lower Upper

168 100

99 66.8 53.5 80.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

50000

40000

30000

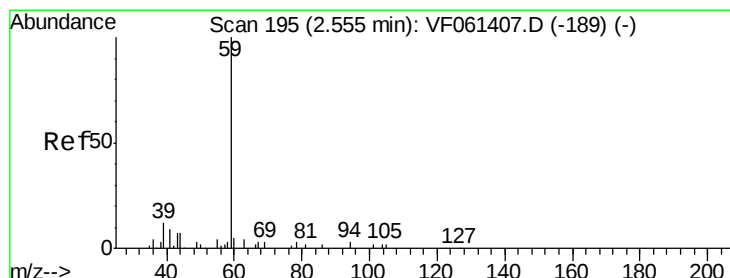
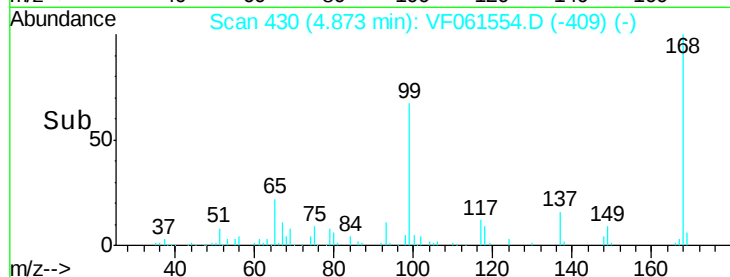
20000

10000

0

Time-->

4.70 4.80 4.90 5.00



#11

Tert butyl alcohol

Concen: 3.283 ug/l

RT: 2.56 min Scan# 196

Delta R.T. 0.01 min

Lab File: VF061554.D

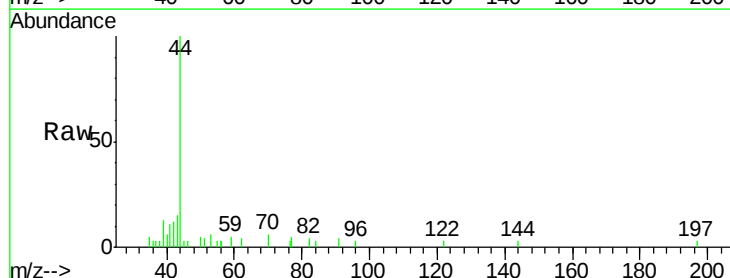
Acq: 7 Feb 2019 19:37

Tgt Ion: 59 Resp: 265

Ion Ratio Lower Upper

59 100

57 0.0 11.9 17.9#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.56

300

250

200

150

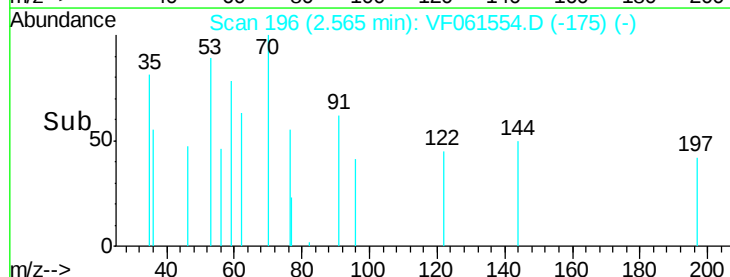
100

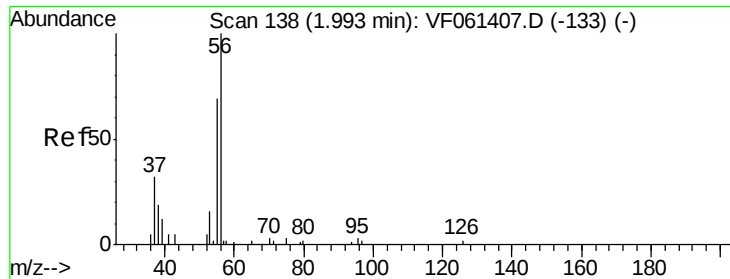
50

0

Time-->

2.55 2.60





#13

Acrolein

Concen: 16.804 ug/l

RT: 1.93 min Scan# 132

Delta R.T. -0.06 min

Lab File: VF061554.D

Acq: 7 Feb 2019 19:37

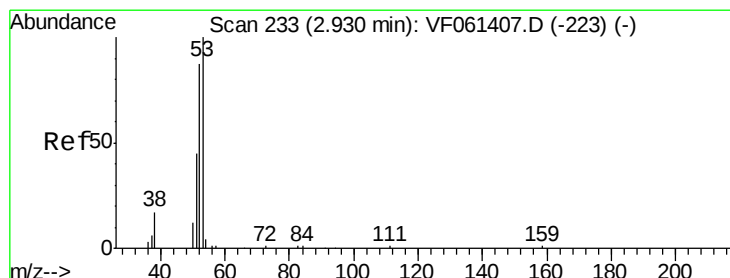
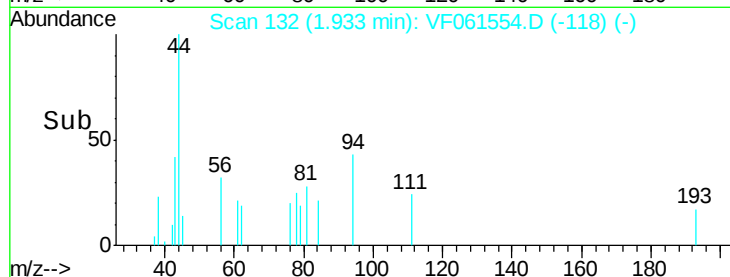
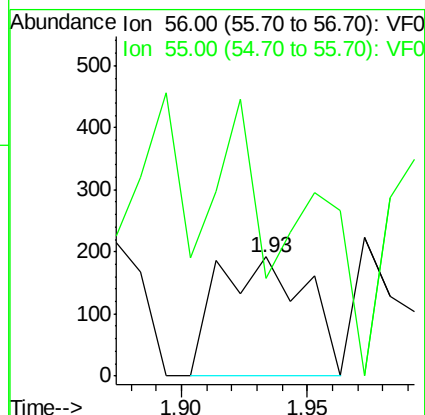
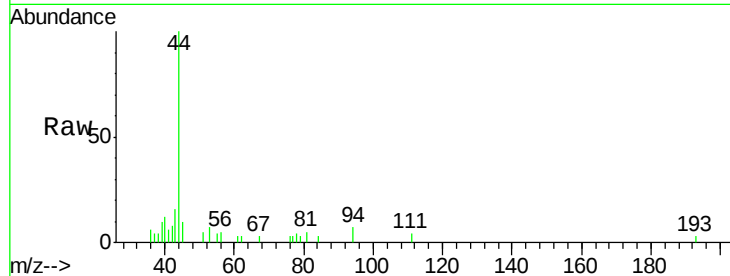
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 56 Resp: 469

Ion Ratio Lower Upper

56 100

55 81.8 57.5 86.3



#15

Acrylonitrile

Concen: 7.067 ug/l

RT: 2.94 min Scan# 234

Delta R.T. 0.01 min

Lab File: VF061554.D

Acq: 7 Feb 2019 19:37

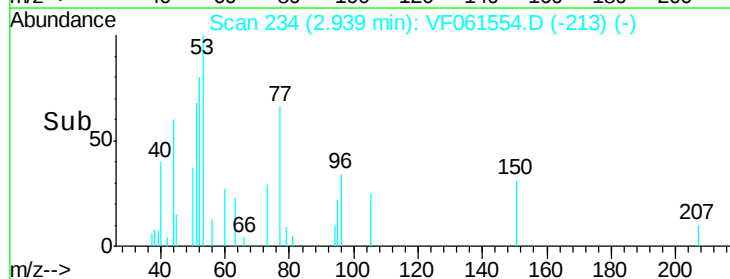
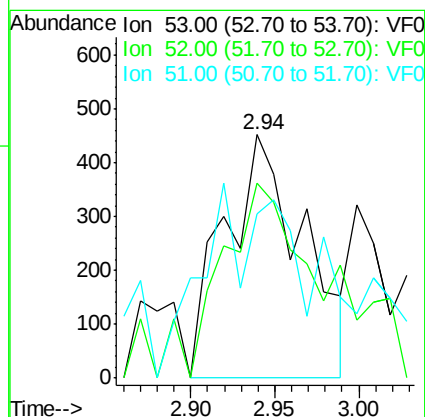
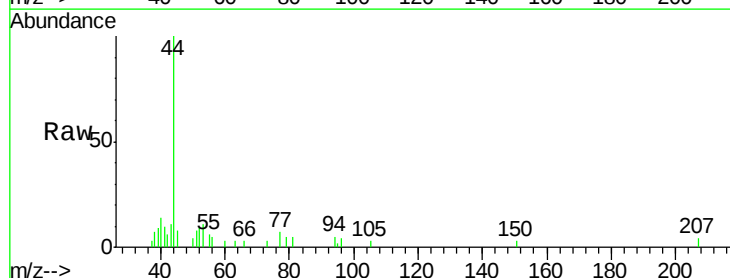
Tgt Ion: 53 Resp: 1461

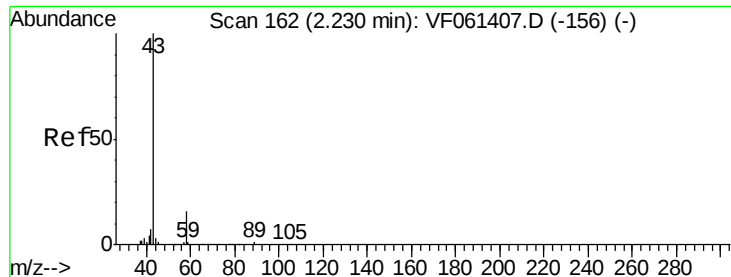
Ion Ratio Lower Upper

53 100

52 80.3 69.6 104.4

51 67.7 36.8 55.2#





#16

Acetone

Concen: 7.974 ug/l

RT: 2.24 min Scan# 163

Delta R.T. 0.01 min

Lab File: VF061554.D

Acq: 7 Feb 2019 19:37

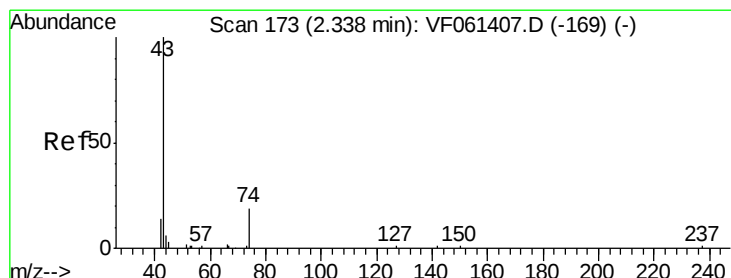
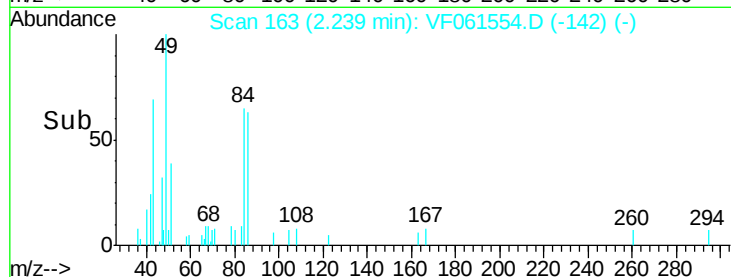
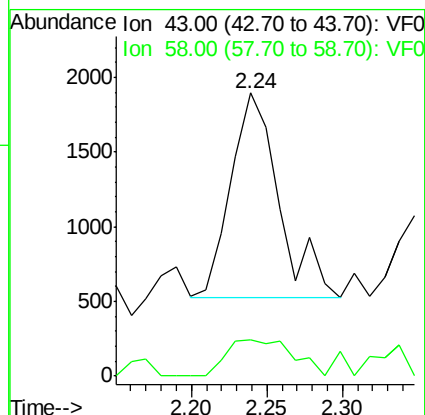
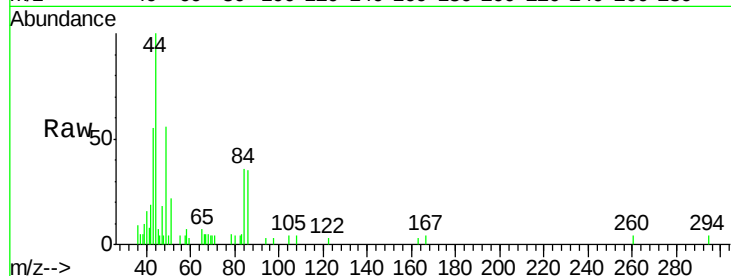
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 3050

Ion Ratio Lower Upper

43 100

58 12.7 13.3 19.9#



#18

Methyl Acetate

Concen: 5.108 ug/l

RT: 2.38 min Scan# 177

Delta R.T. 0.04 min

Lab File: VF061554.D

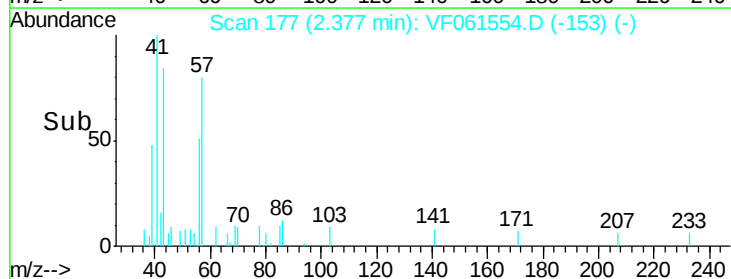
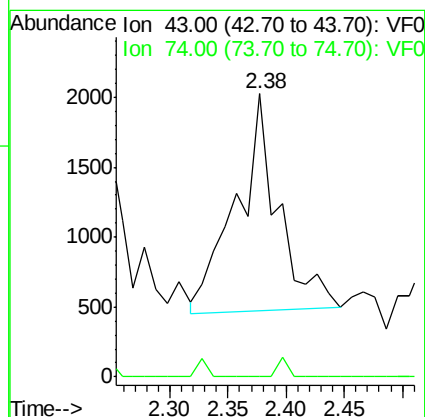
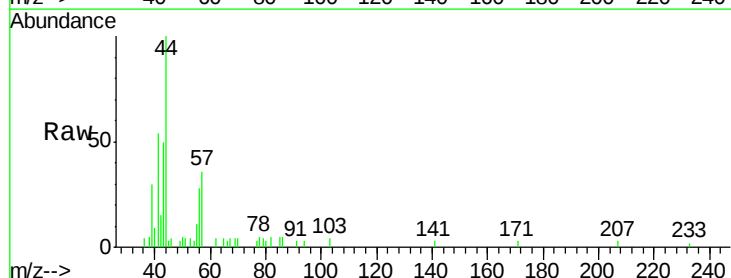
Acq: 7 Feb 2019 19:37

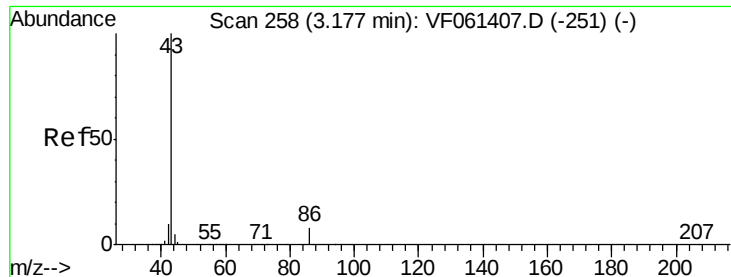
Tgt Ion: 43 Resp: 3875

Ion Ratio Lower Upper

43 100

74 0.0 13.4 20.0#





#23

Vinyl Acetate

Concen: 4.111 ug/l

RT: 3.19 min Scan# 259

Delta R.T. 0.01 min

Lab File: VF061554.D

Acq: 7 Feb 2019 19:37

Instrument :

MSVOA_F

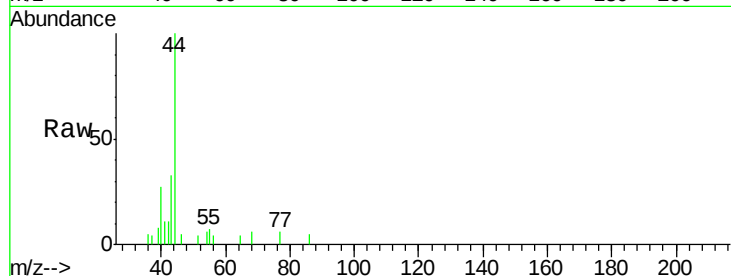
ClientSampled :

Tot Ion: 43 Resp: 1998

Ion Ratio Lower Upper

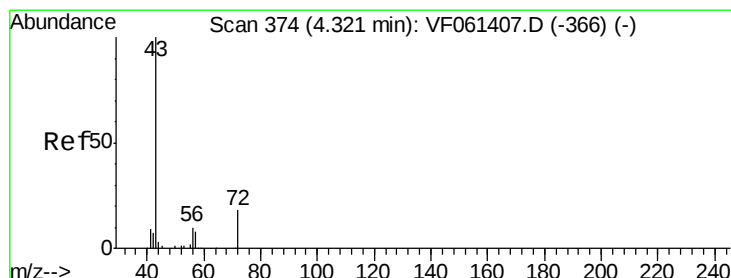
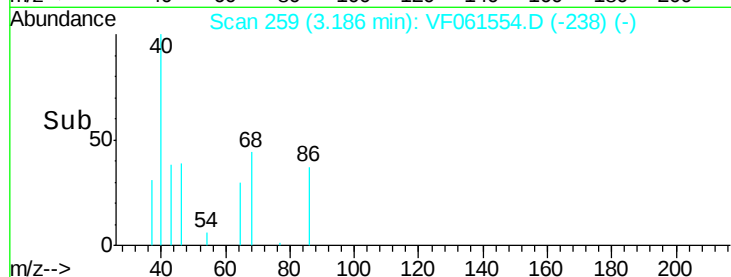
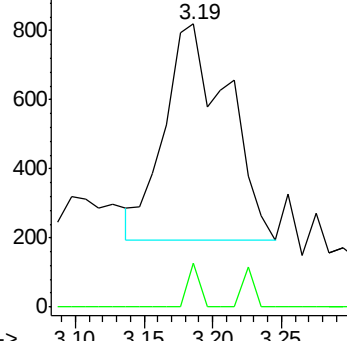
43 100

86 15.5 6.2 9.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#25

2-Butanone

Concen: 4.697 ug/l

RT: 4.33 min Scan# 375

Delta R.T. 0.01 min

Lab File: VF061554.D

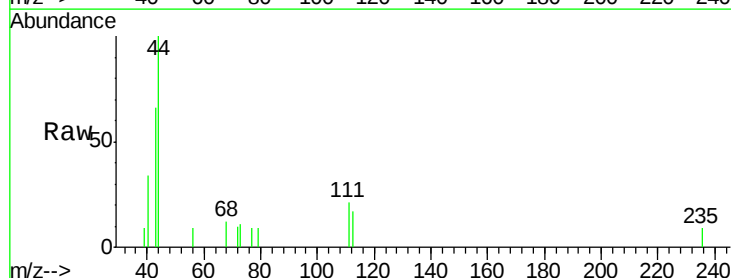
Acq: 7 Feb 2019 19:37

Tgt Ion: 43 Resp: 2988

Ion Ratio Lower Upper

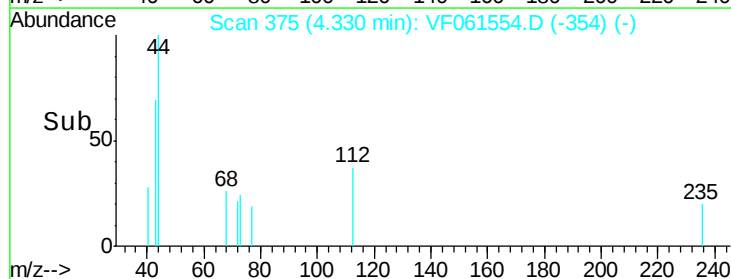
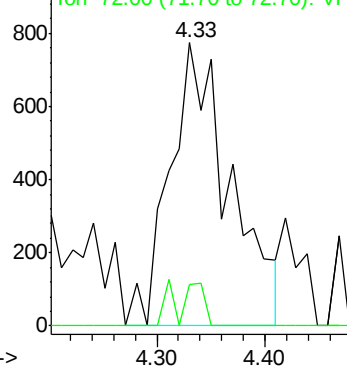
43 100

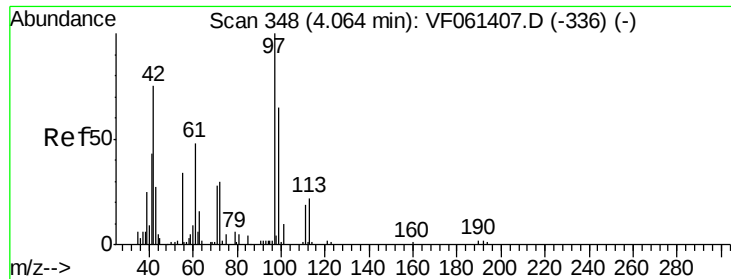
72 14.5 15.8 23.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0





#29

Tetrahydrofuran

Concen: 6.546 ug/l

RT: 4.07 min Scan# 349

Delta R.T. 0.01 min

Lab File: VF061554.D

Acq: 7 Feb 2019 19:37

Instrument :

MSVOA_F

ClientSampleId :

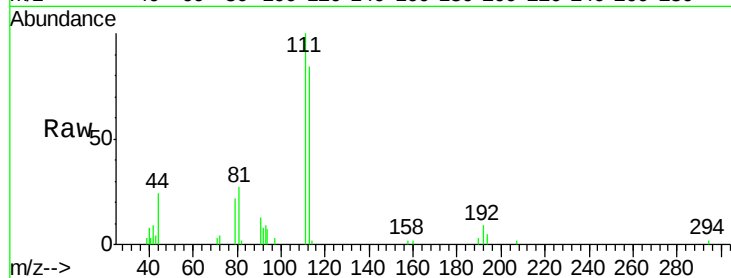
Tot Ion: 42 Resp: 1793

Ion Ratio Lower Upper

42 100

72 37.5 28.9 43.3

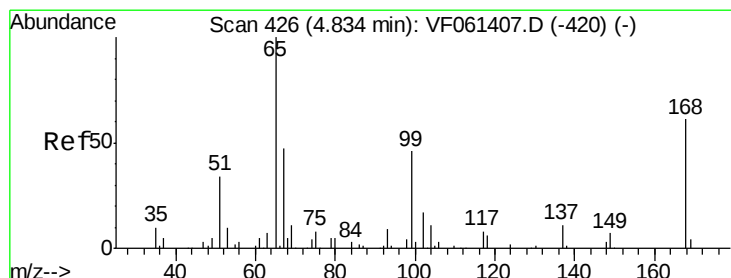
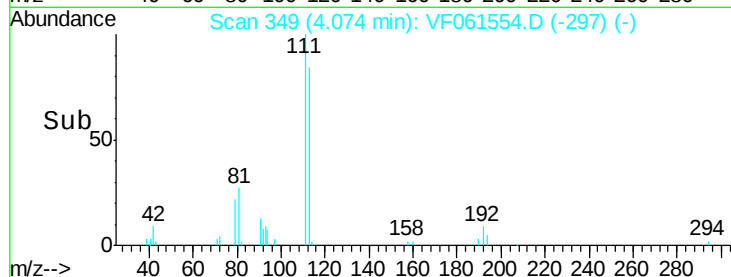
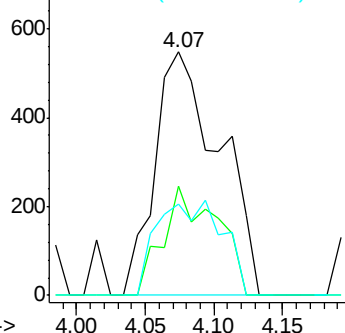
71 39.3 29.6 44.4



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: 59.118 ug/l

RT: 4.84 min Scan# 427

Delta R.T. 0.01 min

Lab File: VF061554.D

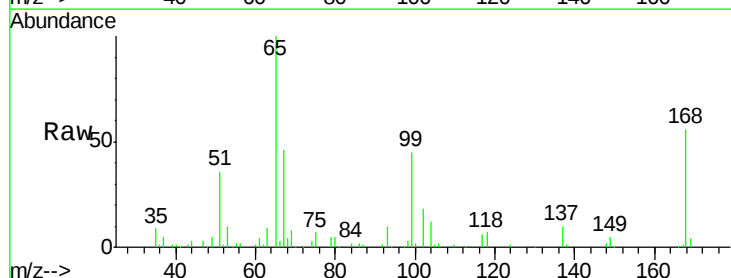
Acq: 7 Feb 2019 19:37

Tgt Ion: 65 Resp: 112722

Ion Ratio Lower Upper

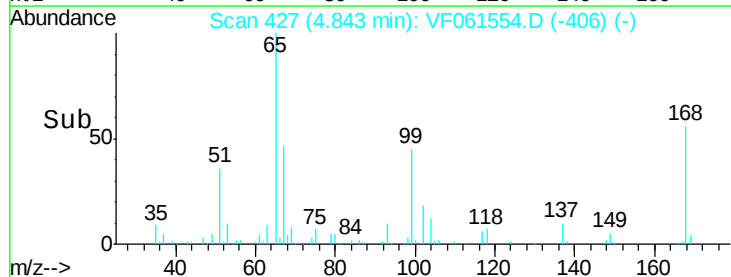
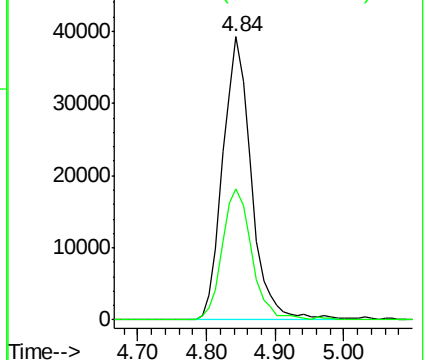
65 100

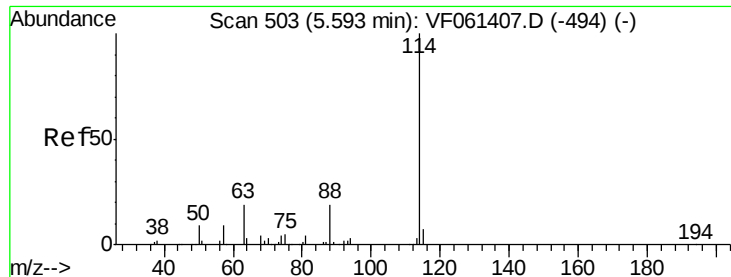
67 46.2 0.0 99.8



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: 5.59 min Scan# 503

Delta R.T. -0.00 min

Lab File: VF061554.D

Acq: 7 Feb 2019 19:37

Instrument :

MSVOA_F

ClientSampleId :

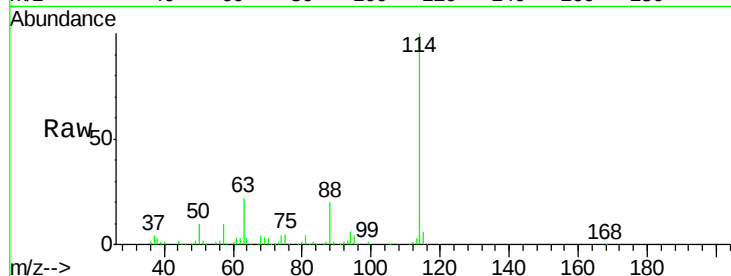
Tot Ion:114 Resp: 295612

Ion Ratio Lower Upper

114 100

63 22.1 0.0 39.0

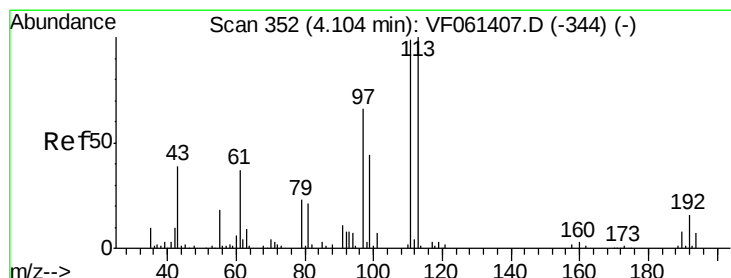
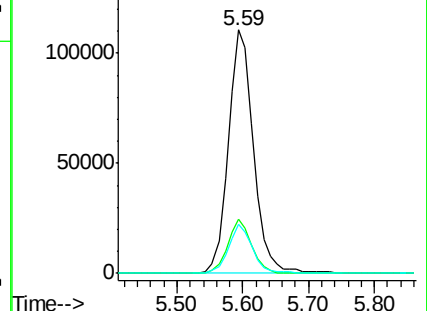
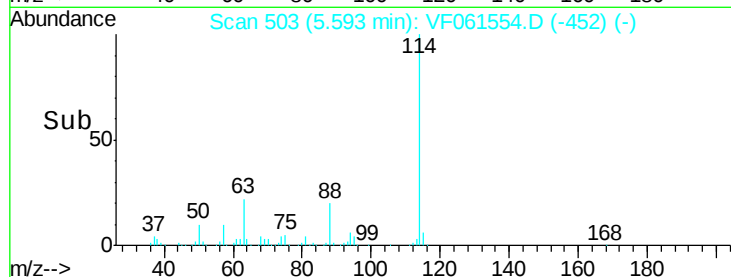
88 20.1 0.0 37.4



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: 50.753 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.01 min

Lab File: VF061554.D

Acq: 7 Feb 2019 19:37

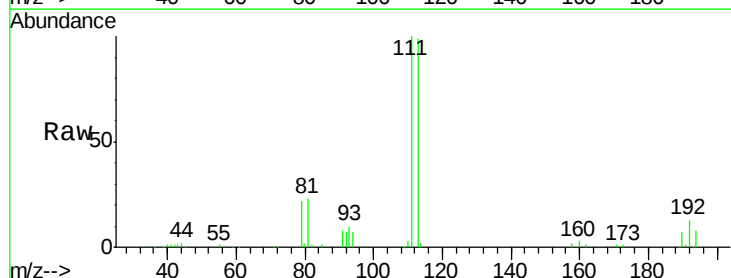
Tgt Ion:113 Resp: 118388

Ion Ratio Lower Upper

113 100

111 101.0 79.4 119.0

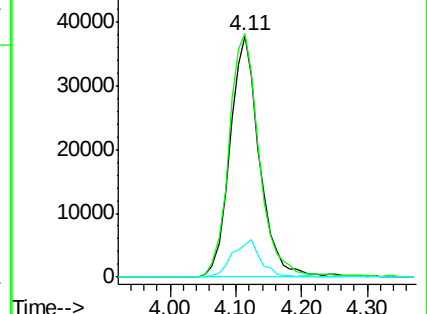
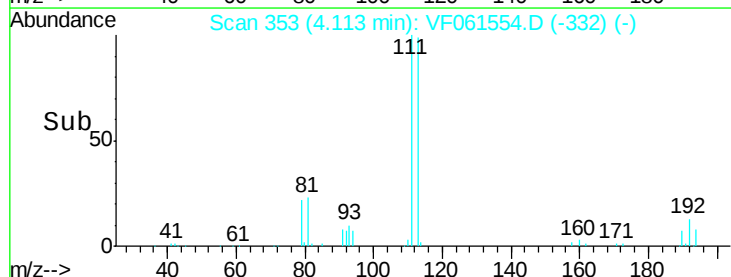
192 13.3 12.4 18.6

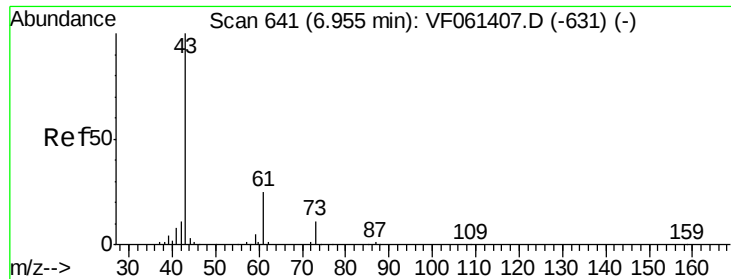


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#43

Isopropyl Acetate

Concen: 1.344 ug/l

RT: 6.96 min Scan# 642

Delta R.T. 0.01 min

Lab File: VF061554.D

Acq: 7 Feb 2019 19:37

Instrument :

MSVOA_F

ClientSampled :

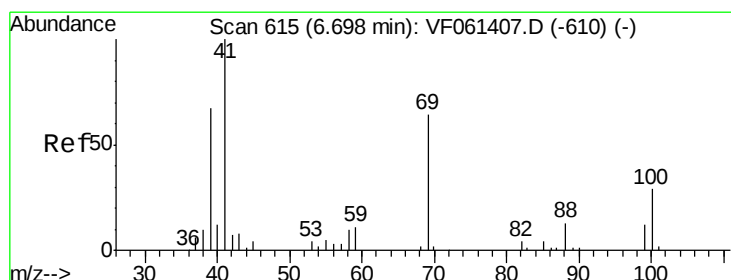
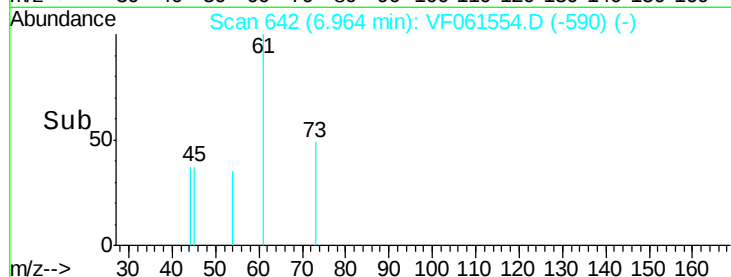
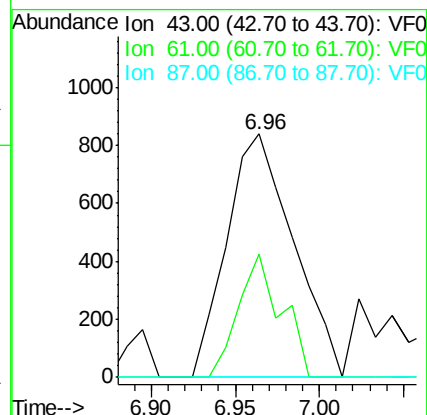
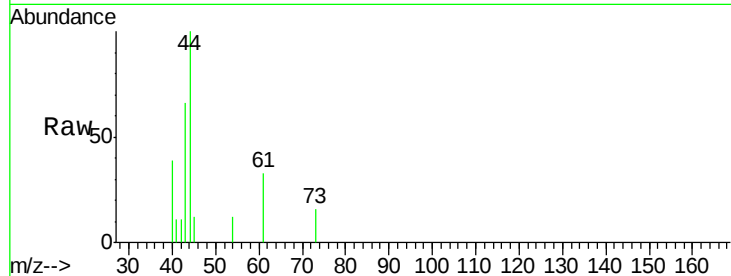
Tot Ion: 43 Resp: 2311

Ion Ratio Lower Upper

43 100

61 50.5 20.3 30.5#

87 0.0 0.5 0.7#



#49

1,4-Dioxane

Concen: Below Cal

RT: 6.53 min Scan# 598

Delta R.T. -0.17 min

Lab File: VF061554.D

Acq: 7 Feb 2019 19:37

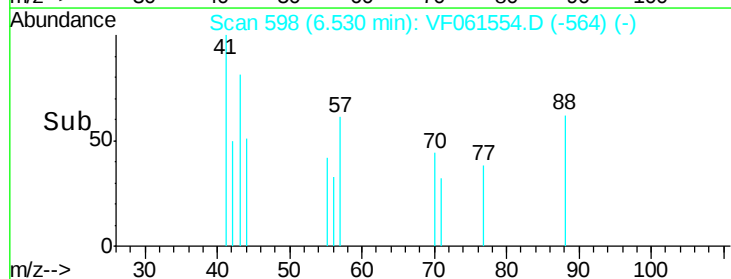
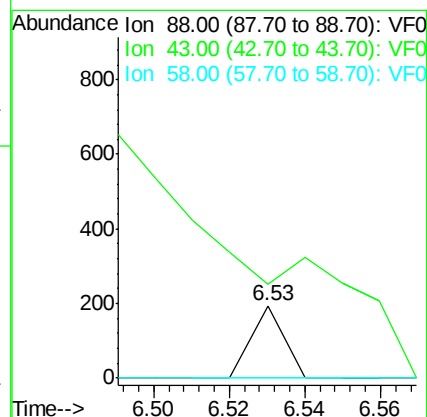
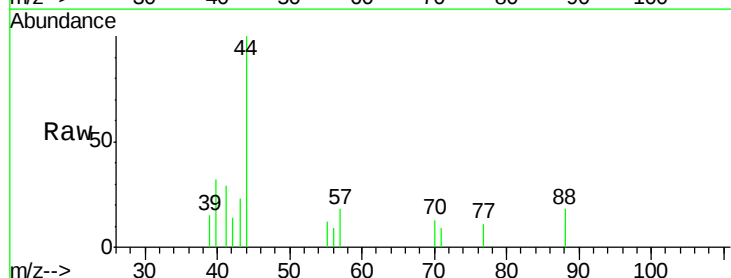
Tgt Ion: 88 Resp: 115

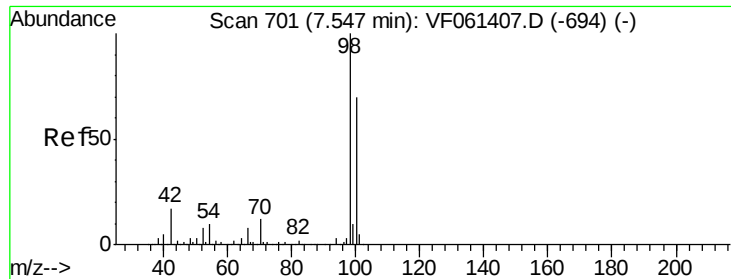
Ion Ratio Lower Upper

88 100

43 129.9 55.5 83.3#

58 0.0 59.9 89.9#





#50

Toluene-d8

Concen: 47.178 ug/l

RT: 7.56 min Scan# 702

Delta R.T. 0.01 min

Lab File: VF061554.D

Acq: 7 Feb 2019 19:37

Instrument :

MSVOA_F

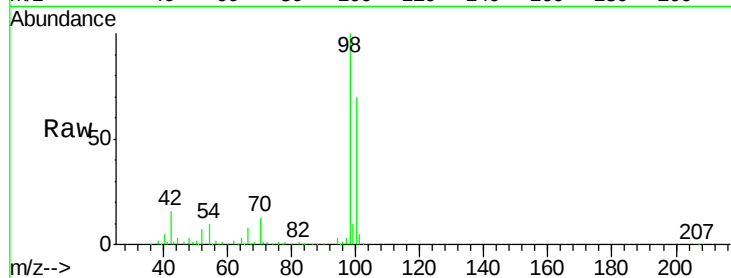
ClientSampled :

Tot Ion: 98 Resp: 301514

Ion Ratio Lower Upper

98 100

100 70.3 55.6 83.4



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

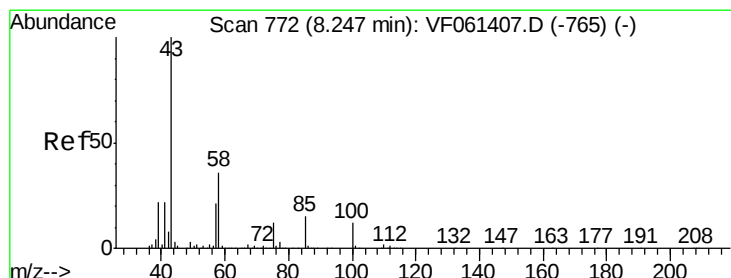
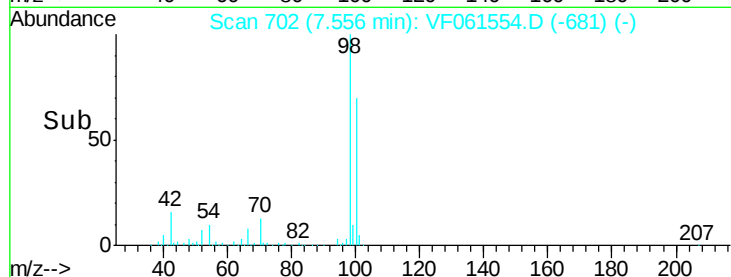
7.56

100000

50000

0

Time--> 7.40 7.50 7.60 7.70



#51

4-Methyl-2-Pentanone

Concen: 4.171 ug/l

RT: 8.26 min Scan# 773

Delta R.T. 0.01 min

Lab File: VF061554.D

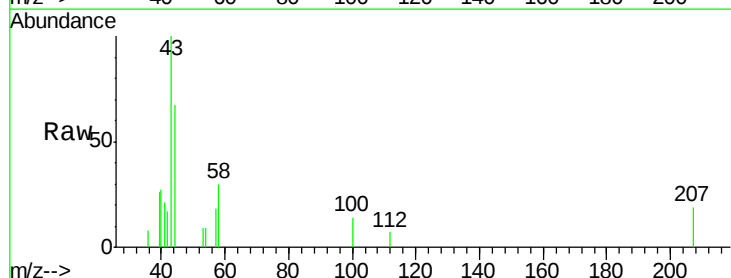
Acq: 7 Feb 2019 19:37

Tgt Ion: 43 Resp: 5273

Ion Ratio Lower Upper

43 100

58 29.8 28.8 43.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

2000

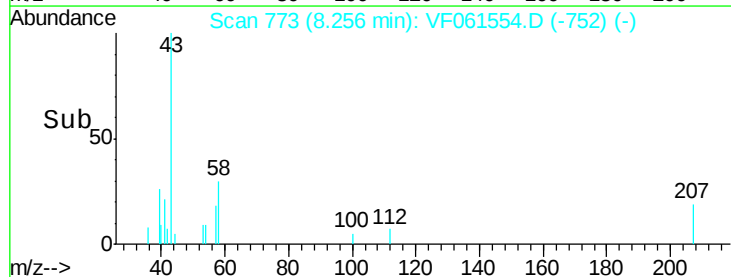
1500

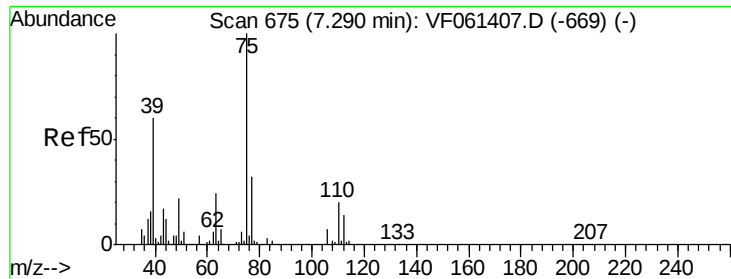
1000

500

0

Time--> 8.20 8.30





#58

2-Chloroethyl Vinyl ether

Concen: 31.267 ug/l

RT: 7.29 min Scan# 675

Delta R.T. -0.00 min

Lab File: VF061554.D

Acq: 7 Feb 2019 19:37

Instrument :

MSVOA_F

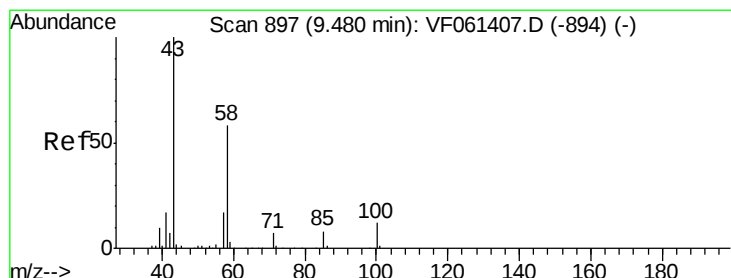
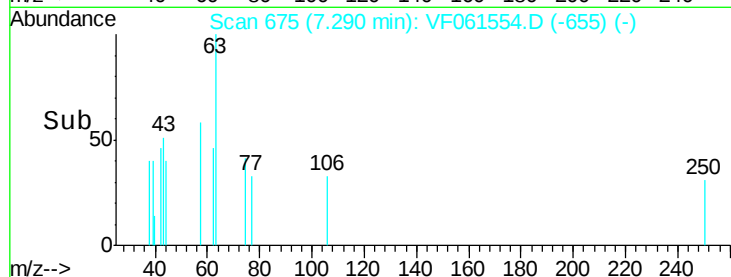
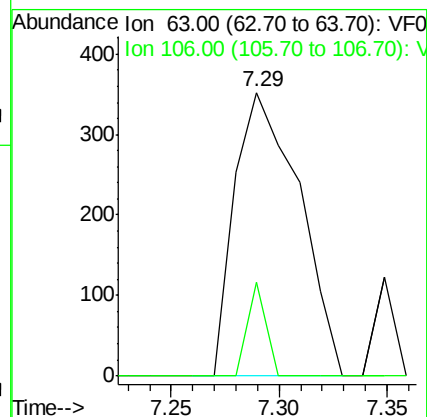
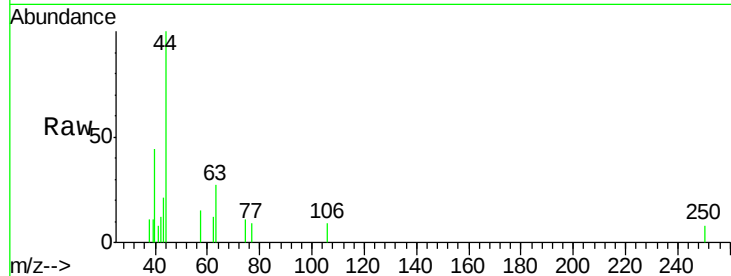
ClientSampleId :

Tot Ion: 63 Resp: 733

Ion Ratio Lower Upper

63 100

106 33.0 21.9 32.9#



#59

2-Hexanone

Concen: 6.719 ug/l

RT: 9.50 min Scan# 899

Delta R.T. 0.02 min

Lab File: VF061554.D

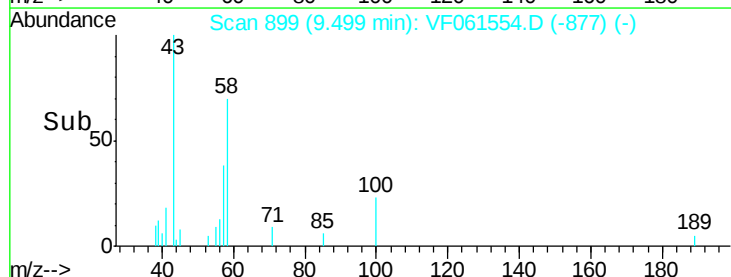
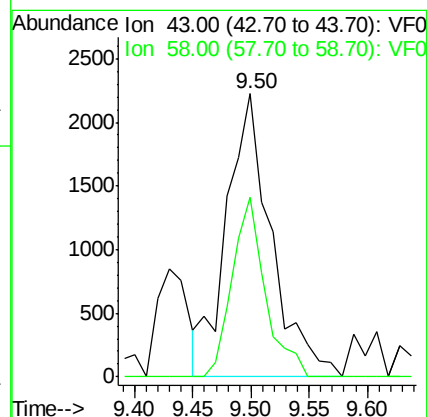
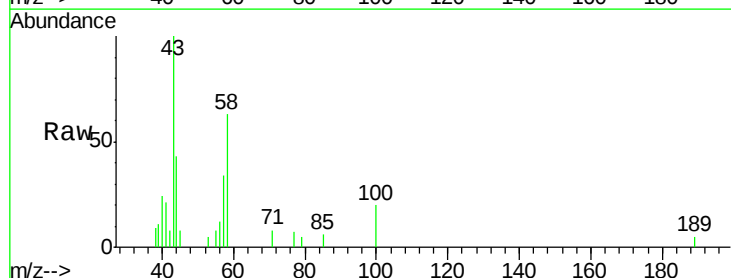
Acq: 7 Feb 2019 19:37

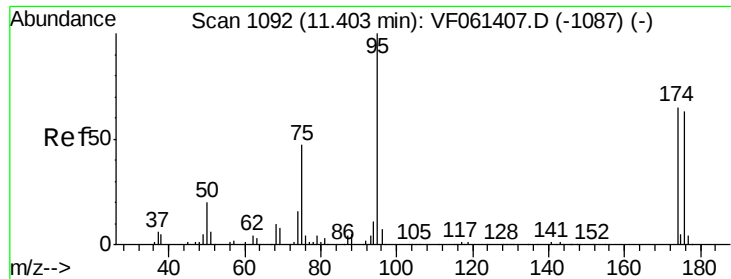
Tgt Ion: 43 Resp: 5923

Ion Ratio Lower Upper

43 100

58 63.4 25.9 77.6





#62

4-Bromofluorobenzene

Concen: 48.632 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. 0.01 min

Lab File: VF061554.D

Acq: 7 Feb 2019 19:37

Instrument :

MSVOA_F

ClientSampleId :

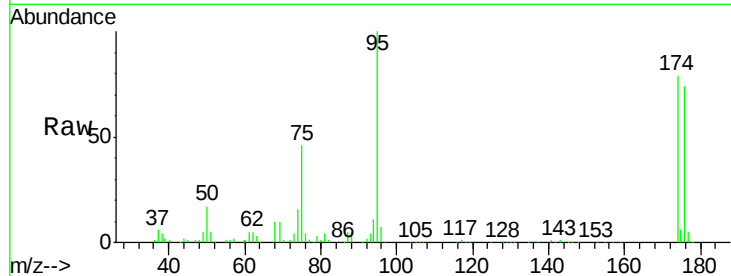
Tot Ion: 95 Resp: 145219

Ion Ratio Lower Upper

95 100

174 79.1 0.0 130.4

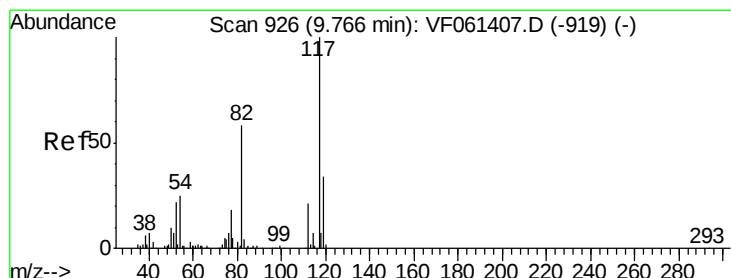
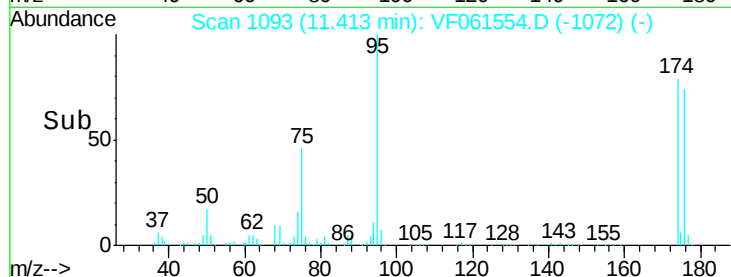
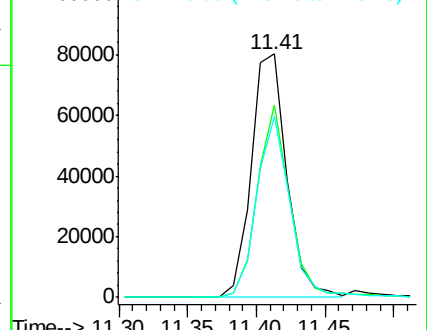
176 74.2 0.0 126.2



Abundance Ion 95.00 (94.70 to 95.70): VF061407.D (-1087) (-)

Ion 174.00 (173.70 to 174.70): VF061407.D (-1087) (-)

Ion 176.00 (175.70 to 176.70): VF061407.D (-1087) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.78 min Scan# 927

Delta R.T. 0.01 min

Lab File: VF061554.D

Acq: 7 Feb 2019 19:37

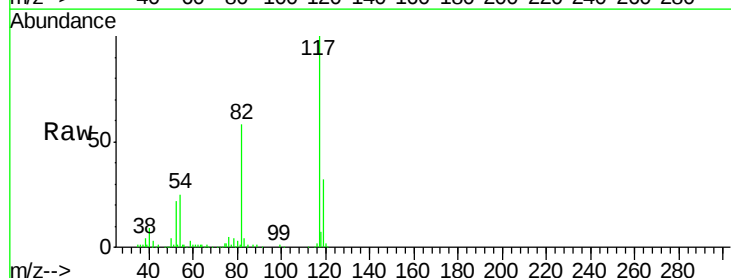
Tgt Ion: 117 Resp: 273667

Ion Ratio Lower Upper

117 100

82 57.9 46.4 69.6

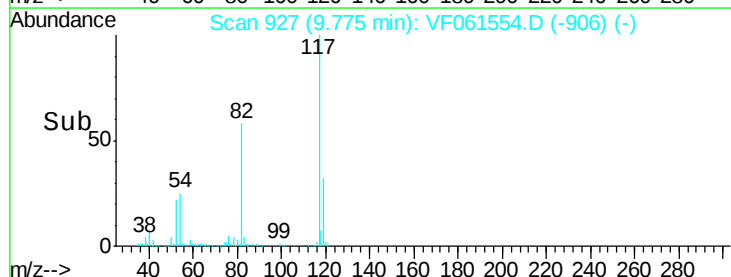
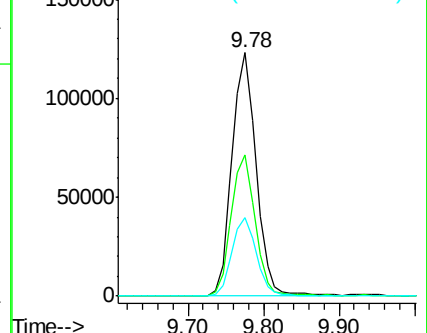
119 32.4 27.2 40.8

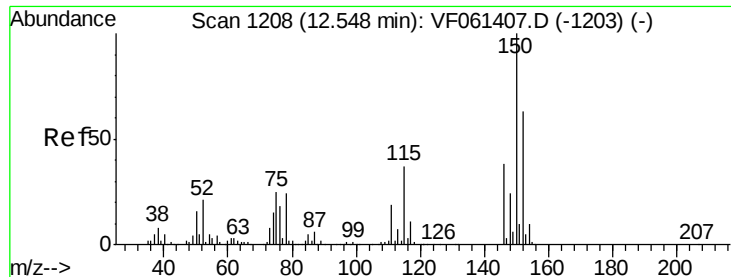


Abundance Ion 117.00 (116.70 to 117.70): VF061407.D (-919) (-)

Ion 82.00 (81.70 to 82.70): VF061407.D (-919) (-)

Ion 119.00 (118.70 to 119.70): VF061407.D (-919) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1208

Delta R.T. -0.00 min

Lab File: VF061554.D

Acq: 7 Feb 2019 19:37

Instrument :

MSVOA_F

ClientSampled :

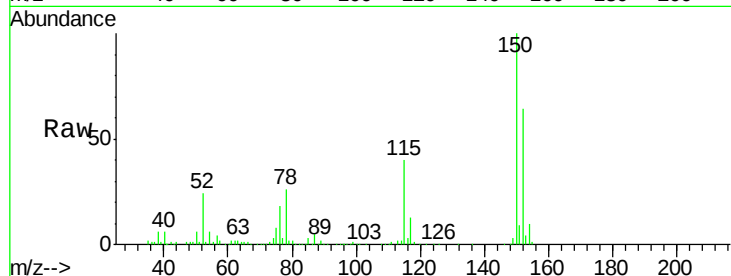
Tot Ion:152 Resp: 153359

Ion Ratio Lower Upper

152 100

115 61.6 30.0 90.0

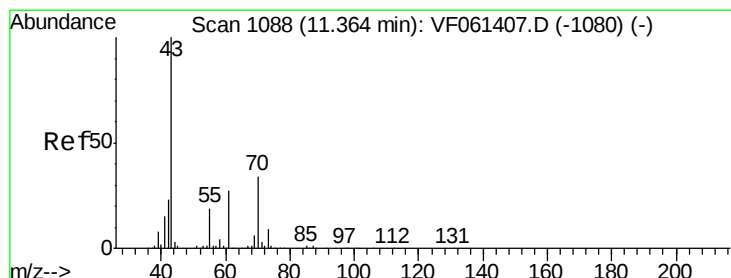
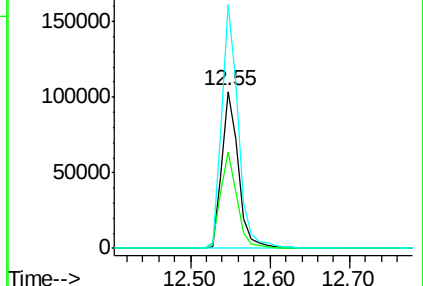
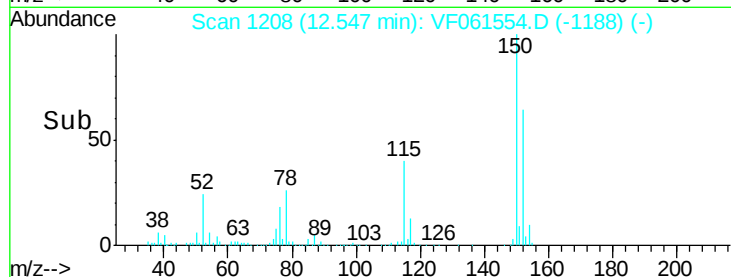
150 155.4 0.0 321.4



Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V



#74

N-ethyl acetate

Concen: 1.390 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. 0.01 min

Lab File: VF061554.D

Acq: 7 Feb 2019 19:37

Tgt Ion: 43 Resp: 4101

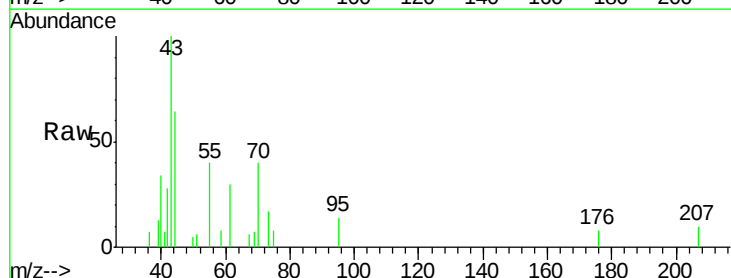
Ion Ratio Lower Upper

43 100

70 40.4 27.6 41.4

55 40.2 15.4 23.2#

61 30.4 21.8 32.6

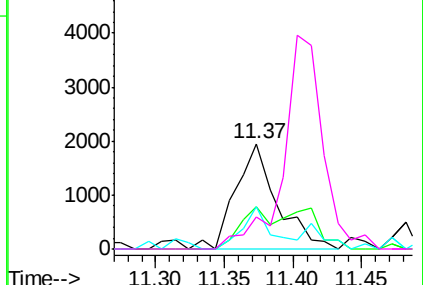
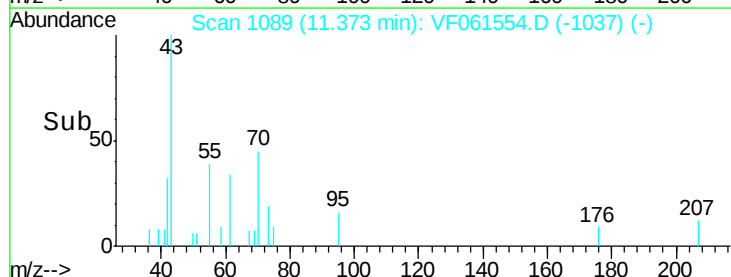


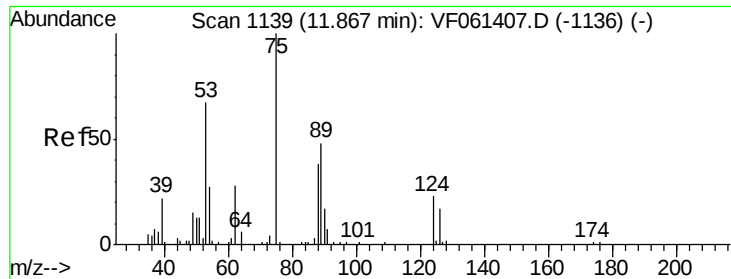
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#81

trans-1,4-Dichloro-2-butene

Concen: 1.112 ug/l

RT: 11.88 min Scan# 1140

Delta R.T. 0.01 min

Lab File: VF061554.D

Acq: 7 Feb 2019 19:37

Instrument :

MSVOA_F

ClientSampleId :

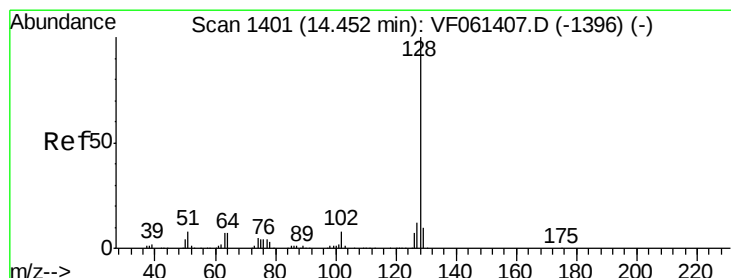
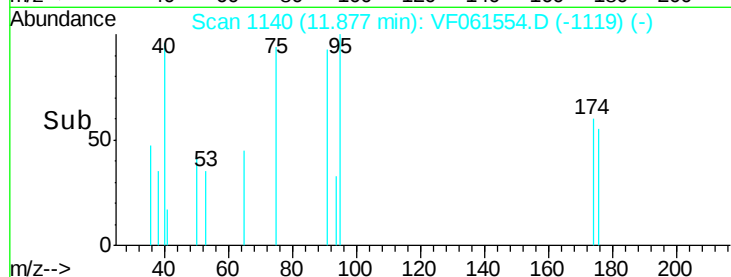
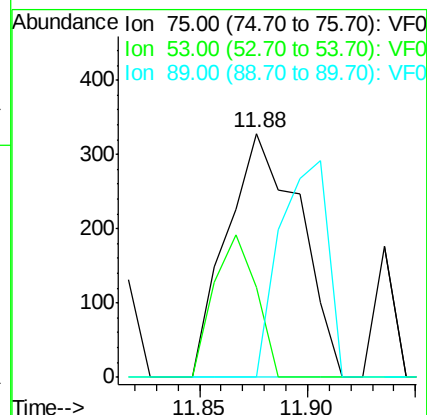
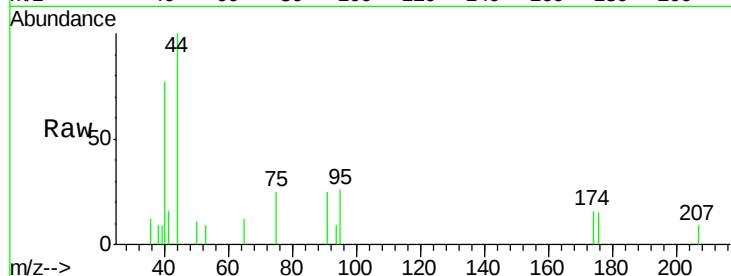
Tot Ion: 75 Resp: 772

Ion Ratio Lower Upper

75 100

53 36.9 57.8 86.6#

89 0.0 40.7 61.1#



#95

Naphthalene

Concen: 1.750 ug/l

RT: 14.45 min Scan# 1401

Delta R.T. -0.00 min

Lab File: VF061554.D

Acq: 7 Feb 2019 19:37

Tgt Ion: 128 Resp: 11477

Ion Ratio Lower Upper

128 100

127 13.9 9.5 14.3

129 14.2 8.4 12.6#

