

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF011719\
 Data File : VF061437.D
 Acq On : 17 Jan 2019 11:32
 Operator : VA/AP
 Sample : VF0117SBL01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0117SBL01

Quant Time: Jan 18 03:16:32 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	4.84	168	207945	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.57	114	360413	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.75	117	316284	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.54	152	170700	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	131708	51.30	ug/l	-0.02
Spiked Amount 50.000			Recovery =	102.60%		
35) Dibromofluoromethane	4.09	113	157774	55.48	ug/l	-0.02
Spiked Amount 50.000			Recovery =	110.96%		
50) Toluene-d8	7.53	98	408978	52.49	ug/l	-0.02
Spiked Amount 50.000			Recovery =	104.98%		
62) 4-Bromofluorobenzene	11.39	95	199398	54.77	ug/l	0.00
Spiked Amount 50.000			Recovery =	109.54%		

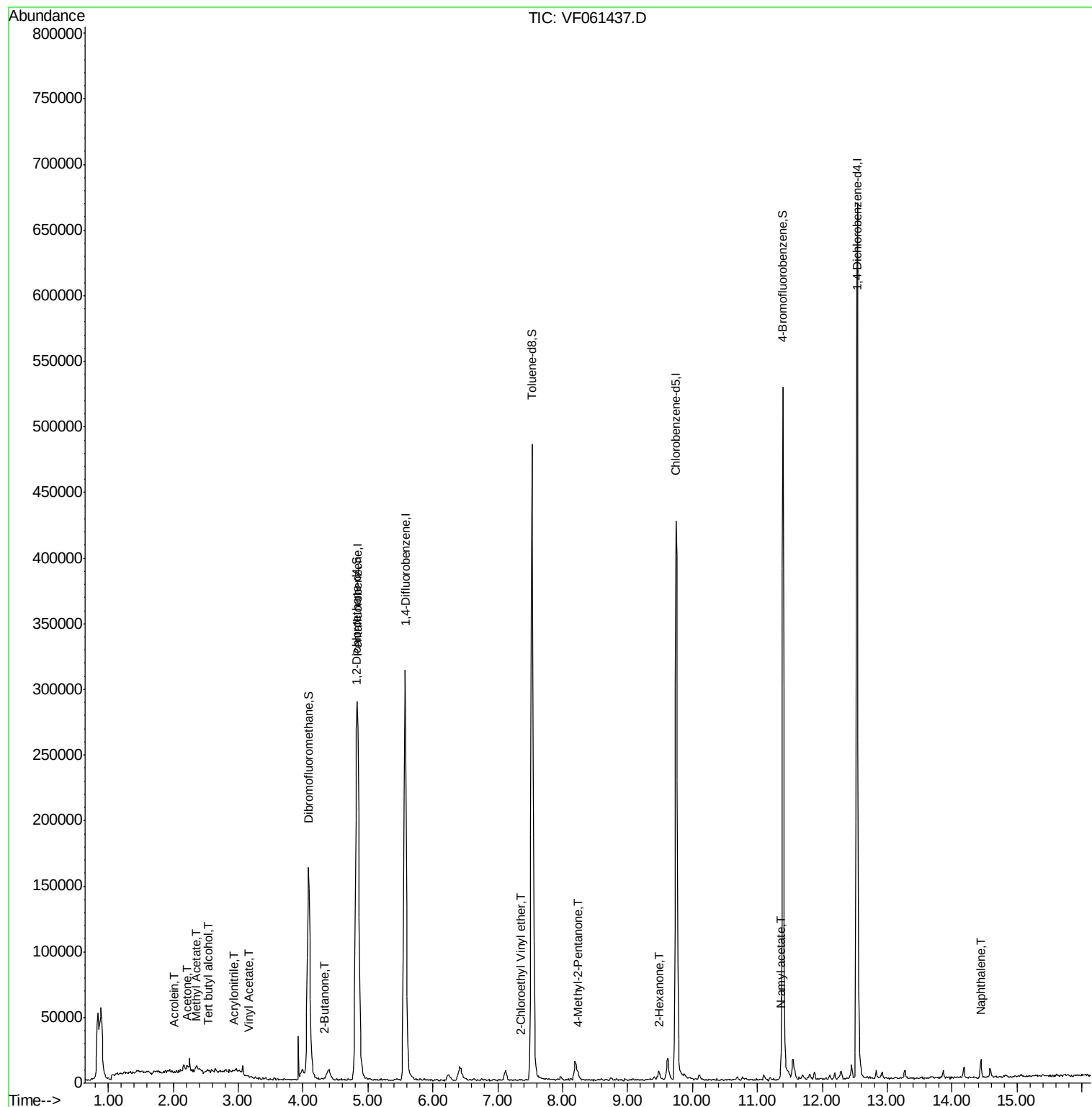
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.55	59	187	1.721	ug/l #	3
13) Acrolein	2.00	56	852	19.063	ug/l	94
14) Allyl chloride	2.09	41	257	Below Cal	#	73
15) Acrylonitrile	2.92	53	875	3.143	ug/l #	89
16) Acetone	2.21	43	2156	4.186	ug/l #	87
18) Methyl Acetate	2.35	43	3172	3.106	ug/l #	61
20) Methylene Chloride	2.17	84	2146	Below Cal	#	69
23) Vinyl Acetate	3.18	43	327	3.305	ug/l #	78
25) 2-Butanone	4.32	43	2154	2.515	ug/l #	57
49) 1,4-Dioxane	6.67	88	61	Below Cal	#	13
51) 4-Methyl-2-Pentanone	8.24	43	3778	2.451	ug/l #	86
58) 2-Chloroethyl Vinyl ether	7.37	63	88	27.887	ug/l #	47
59) 2-Hexanone	9.47	43	6601	6.142	ug/l	81
74) N-amyl acetate	11.36	43	5587	1.702	ug/l #	89
95) Naphthalene	14.44	128	8596	1.178	ug/l #	92

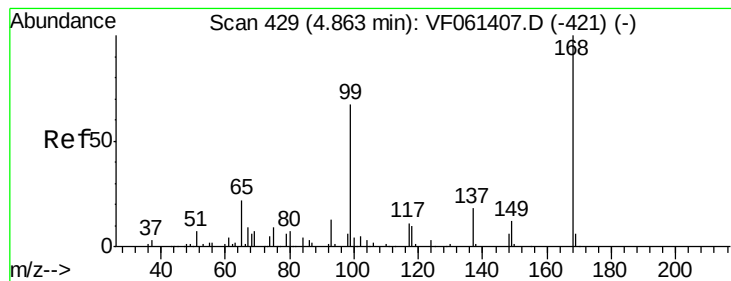
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF011719\
Data File : VF061437.D
Acq On : 17 Jan 2019 11:32
Operator : VA/AP
Sample : VF0117SBL01
Misc : 5.00µ/5mL/MSVOA-F/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
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ClientSampleId :
VF0117SBL01

Quant Time: Jan 18 03:16:32 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
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: 4.84 min Scan# 427

Delta R.T. -0.02 min

Lab File: VF061437.D

Acq: 17 Jan 2019 11:32

Instrument :

MSVOA_F

ClientSampleId :

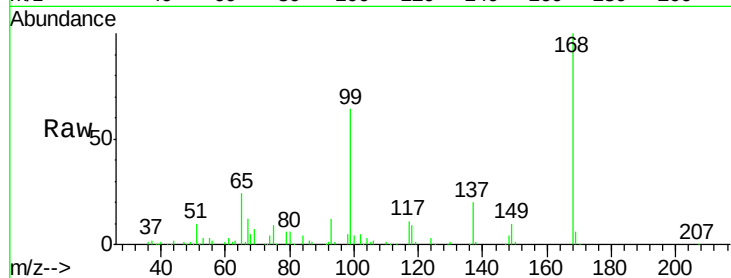
VF0117SBL01

Tot Ion:168 Resp: 207945

Ion Ratio Lower Upper

168 100

99 63.7 53.5 80.3



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0

4.84

60000

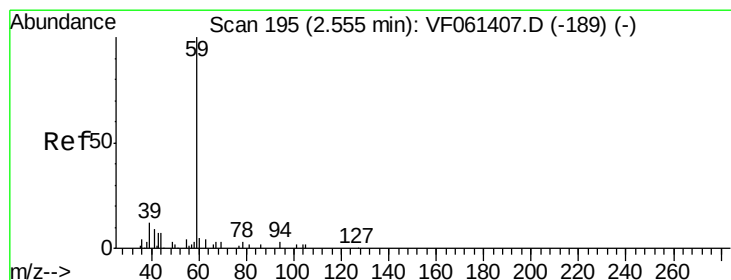
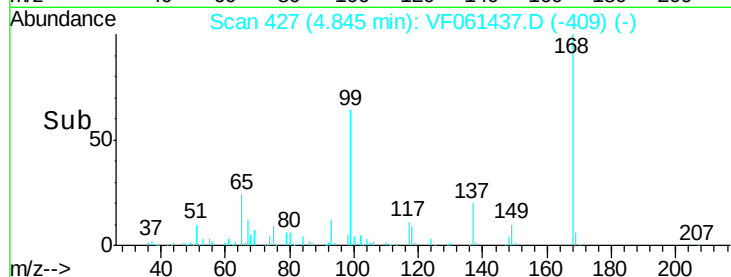
40000

20000

0

4.70 4.80 4.90 5.00

Time-->



#11

Tert butyl alcohol

Concen: 1.721 ug/l

RT: 2.55 min Scan# 194

Delta R.T. -0.01 min

Lab File: VF061437.D

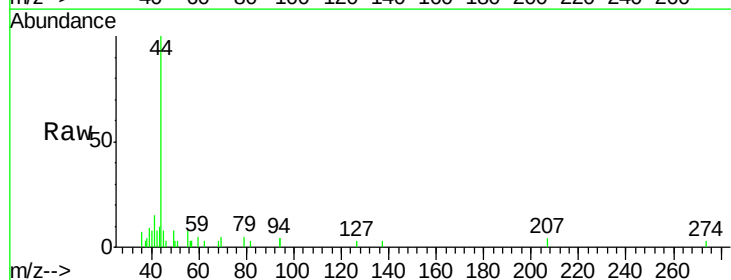
Acq: 17 Jan 2019 11:32

Tgt Ion: 59 Resp: 187

Ion Ratio Lower Upper

59 100

57 55.3 11.9 17.9#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.55

300

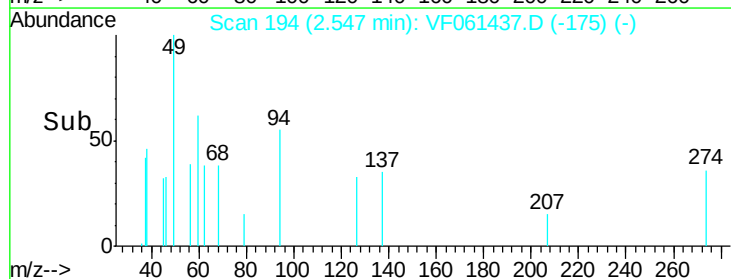
200

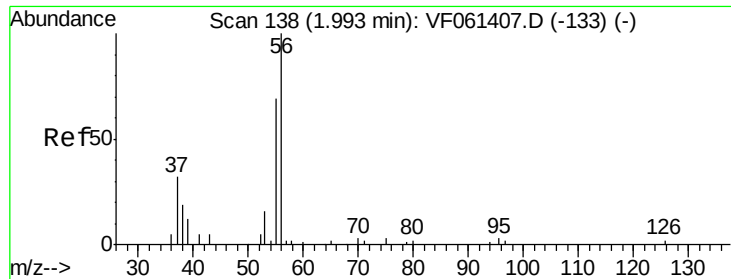
100

0

2.52 2.54 2.56

Time-->





#13

Acrolein

Concen: 19.063 ug/l

RT: 2.00 min Scan# 139

Delta R.T. 0.01 min

Lab File: VF061437.D

Acq: 17 Jan 2019 11:32

Instrument :

MSVOA_F

ClientSampleId :

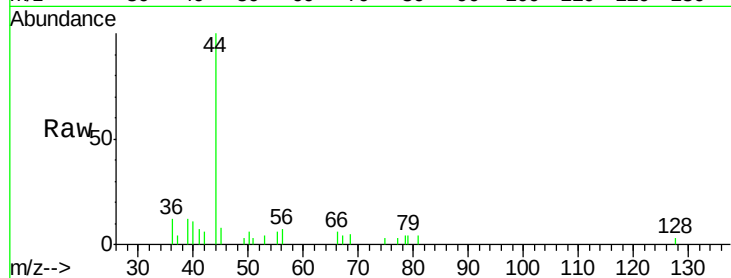
VF0117SBL01

Tot Ion: 56 Resp: 852

Ion Ratio Lower Upper

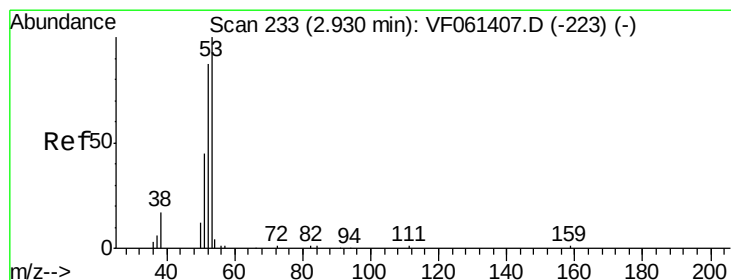
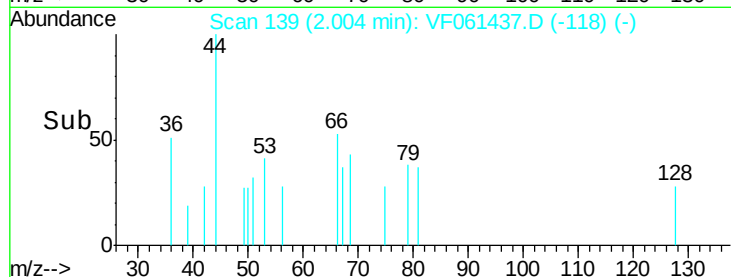
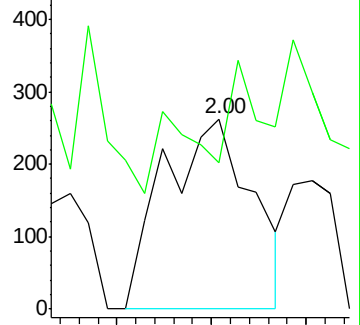
56 100

55 76.8 57.5 86.3



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#15

Acrylonitrile

Concen: 3.143 ug/l

RT: 2.92 min Scan# 232

Delta R.T. -0.01 min

Lab File: VF061437.D

Acq: 17 Jan 2019 11:32

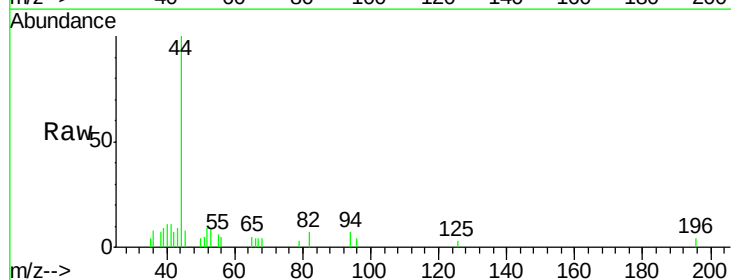
Tgt Ion: 53 Resp: 875

Ion Ratio Lower Upper

53 100

52 95.8 69.6 104.4

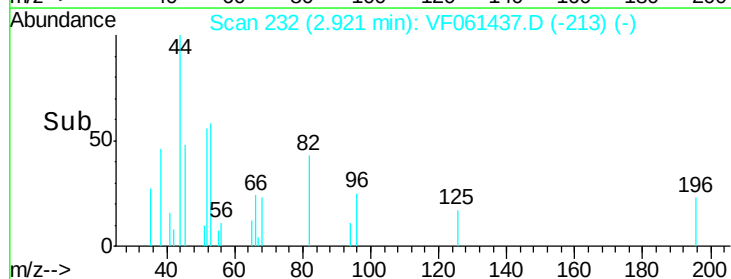
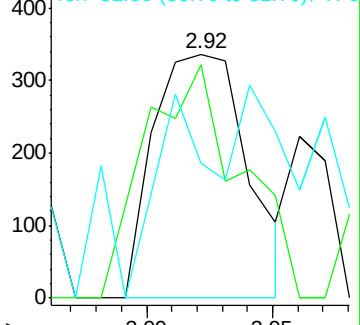
51 55.4 36.8 55.2#

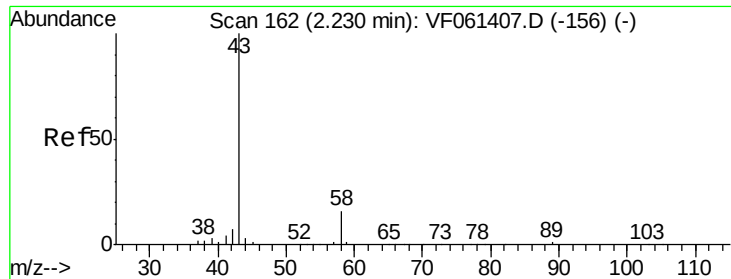


Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0





#16

Acetone

Concen: 4.186 ug/l

RT: 2.21 min Scan# 160

Delta R.T. -0.02 min

Lab File: VF061437.D

Acq: 17 Jan 2019 11:32

Instrument :

MSVOA_F

ClientSampleId :

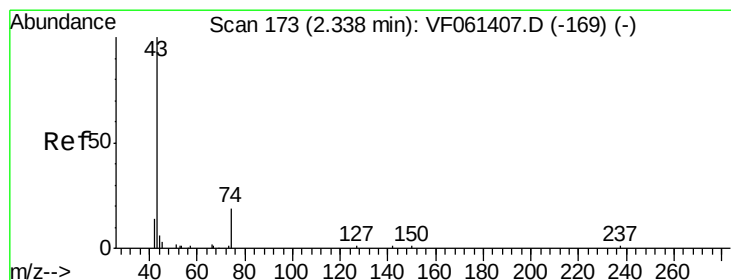
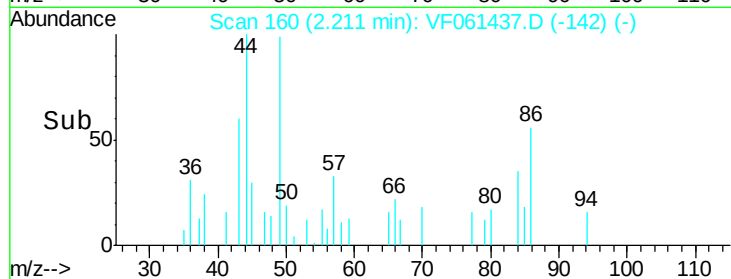
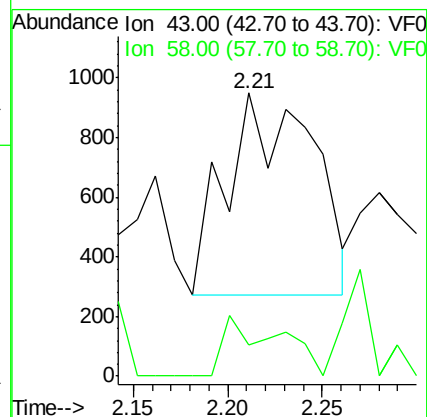
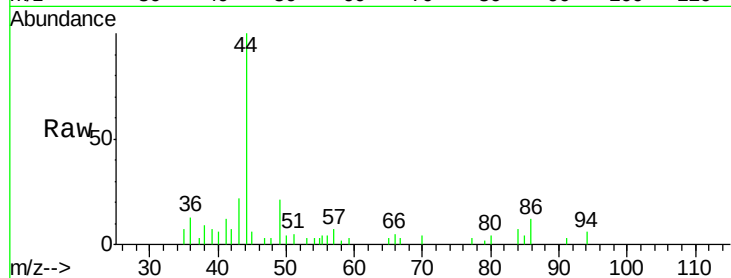
VF0117SBL01

Tot Ion: 43 Resp: 2156

Ion Ratio Lower Upper

43 100

58 10.9 13.3 19.9#



#18

Methyl Acetate

Concen: 3.106 ug/l

RT: 2.35 min Scan# 174

Delta R.T. 0.01 min

Lab File: VF061437.D

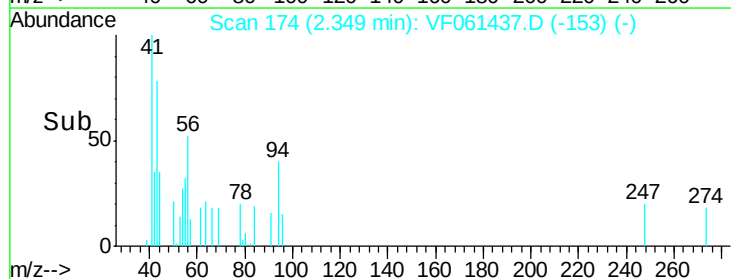
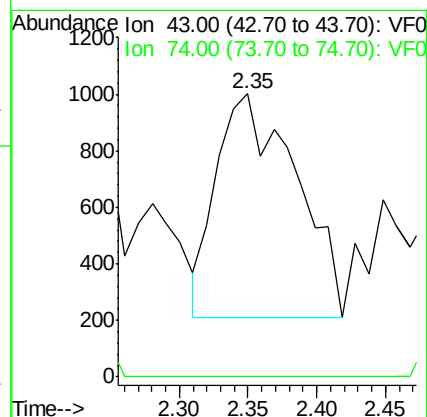
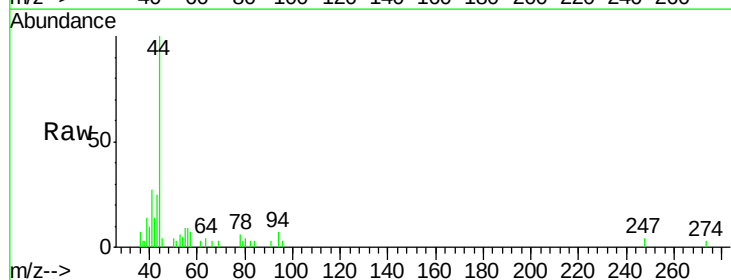
Acq: 17 Jan 2019 11:32

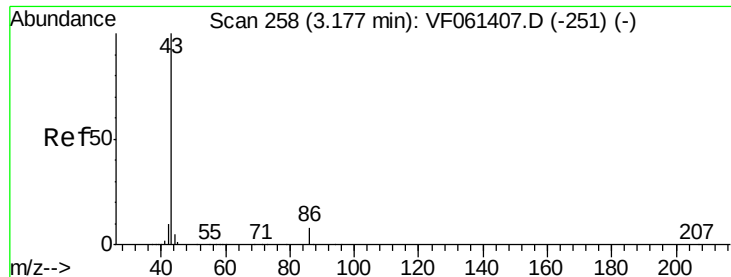
Tgt Ion: 43 Resp: 3172

Ion Ratio Lower Upper

43 100

74 0.0 13.4 20.0#





#23

Vinyl Acetate

Concen: 3.305 ug/l

RT: 3.18 min Scan# 258

Delta R.T. 0.00 min

Lab File: VF061437.D

Acq: 17 Jan 2019 11:32

Instrument :

MSVOA_F

ClientSampleId :

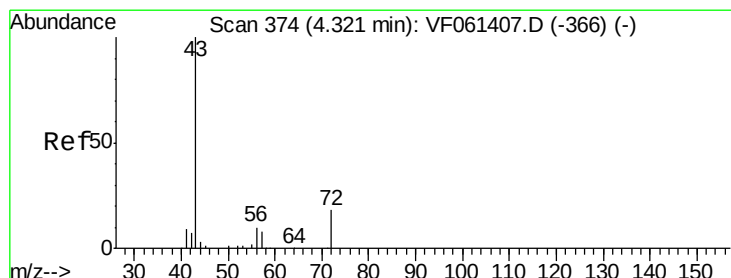
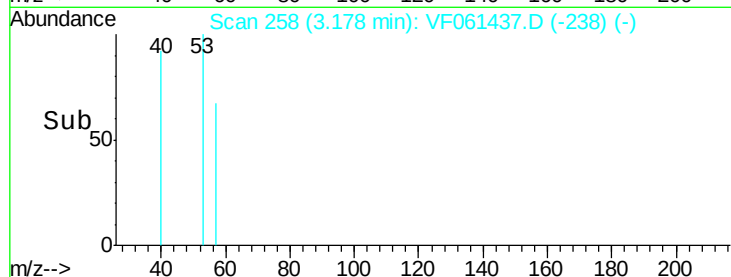
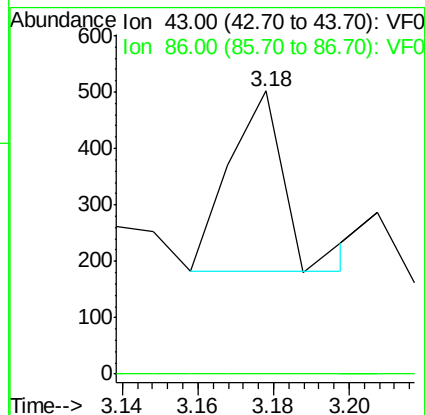
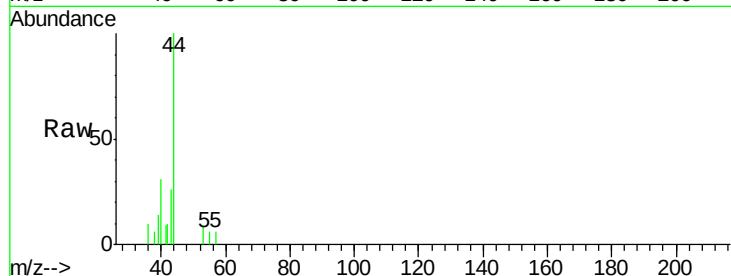
VF0117SBL01

Tot Ion: 43 Resp: 327

Ion Ratio Lower Upper

43 100

86 0.0 6.2 9.4#



#25

2-Butanone

Concen: 2.515 ug/l

RT: 4.32 min Scan# 374

Delta R.T. 0.00 min

Lab File: VF061437.D

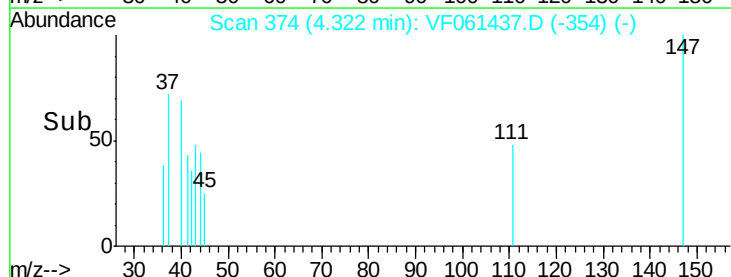
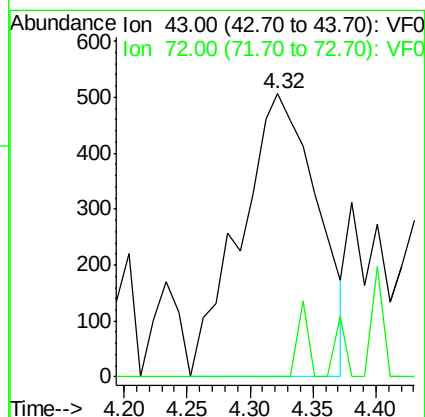
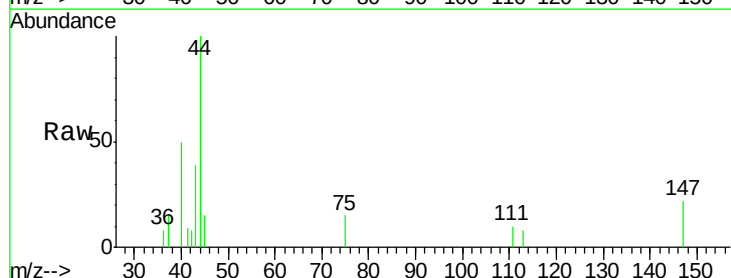
Acq: 17 Jan 2019 11:32

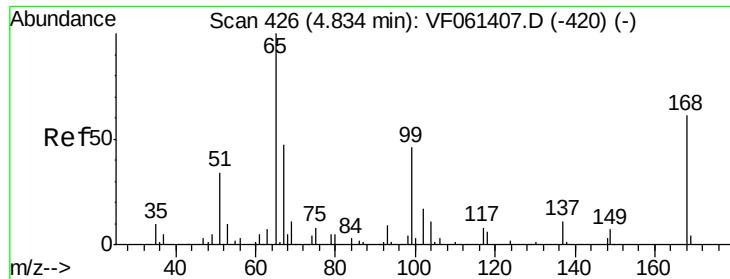
Tgt Ion: 43 Resp: 2154

Ion Ratio Lower Upper

43 100

72 0.0 15.8 23.6#

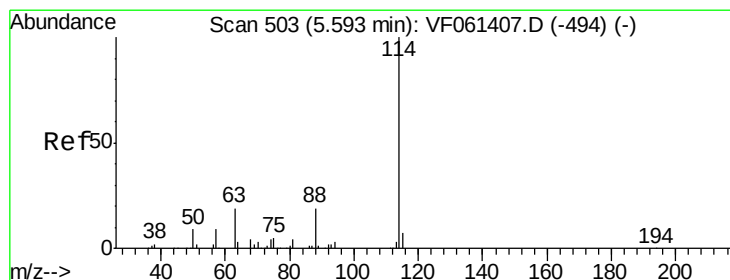
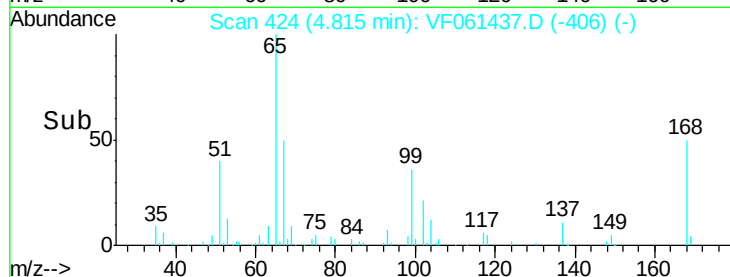
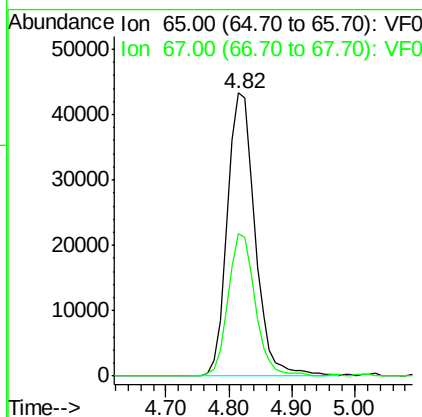
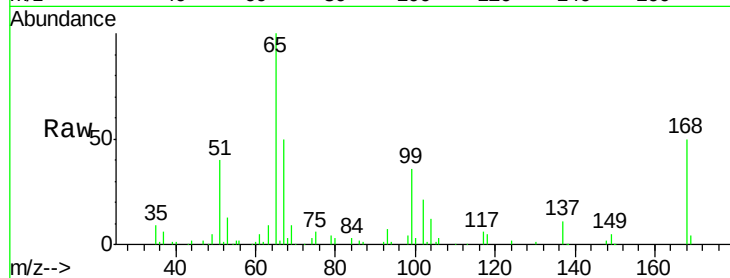




#33
 1,2-Dichloroethane-d4
 Concen: 51.301 ug/l
 RT: 4.82 min Scan# 424
 Delta R.T. -0.02 min
 Lab File: VF061437.D
 Acq: 17 Jan 2019 11:32

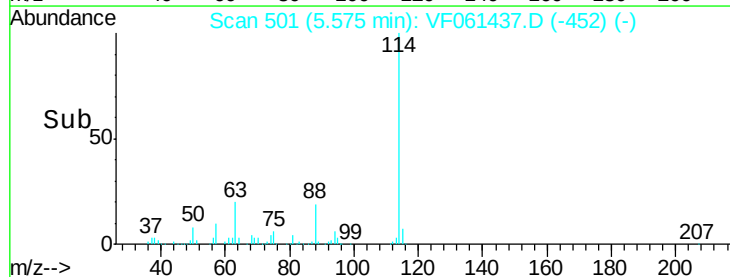
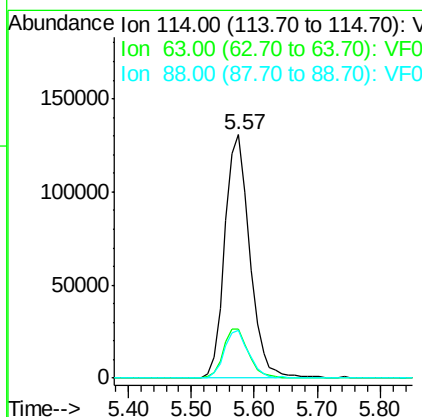
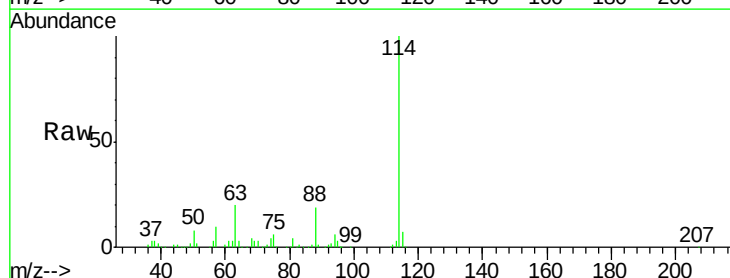
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0117SBL01

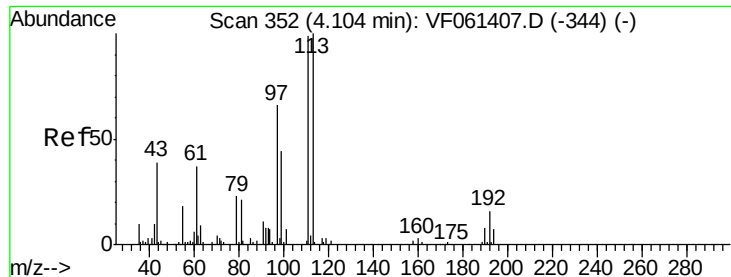
Tot Ion: 65 Resp: 131708
 Ion Ratio Lower Upper
 65 100
 67 50.3 0.0 99.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.57 min Scan# 501
 Delta R.T. -0.02 min
 Lab File: VF061437.D
 Acq: 17 Jan 2019 11:32

Tgt Ion: 114 Resp: 360413
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 39.0
 88 19.5 0.0 37.4





#35

Dibromofluoromethane

Concen: 55.477 ug/l

RT: 4.09 min Scan# 350

Delta R.T. -0.02 min

Lab File: VF061437.D

Acq: 17 Jan 2019 11:32

Instrument :

MSVOA_F

ClientSampleId :

VF0117SBL01

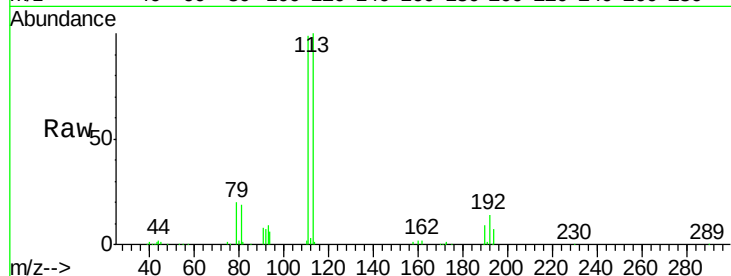
Tot Ion:113 Resp: 157774

Ion Ratio Lower Upper

113 100

111 98.5 79.4 119.0

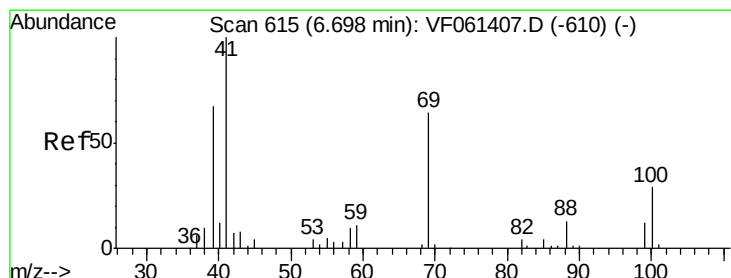
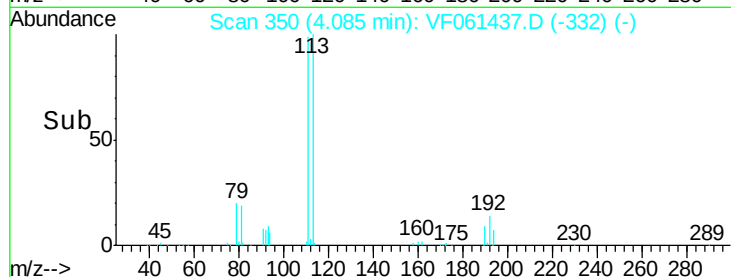
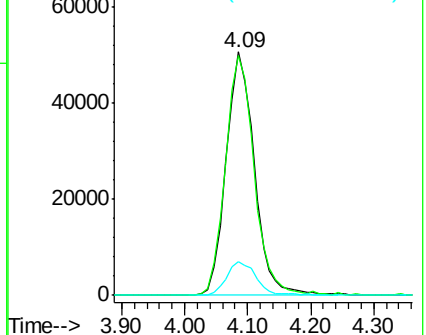
192 14.0 12.4 18.6



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



#49

1,4-Dioxane

Concen: Below Cal

RT: 6.67 min Scan# 612

Delta R.T. -0.03 min

Lab File: VF061437.D

Acq: 17 Jan 2019 11:32

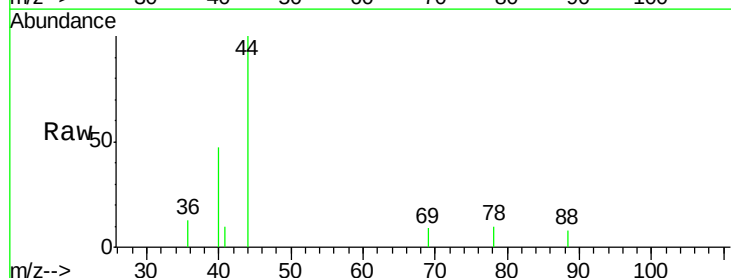
Tgt Ion: 88 Resp: 61

Ion Ratio Lower Upper

88 100

43 0.0 55.5 83.3#

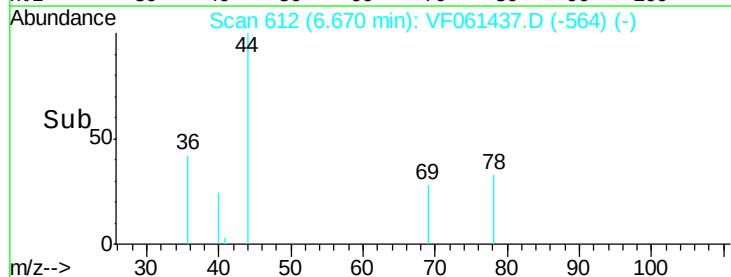
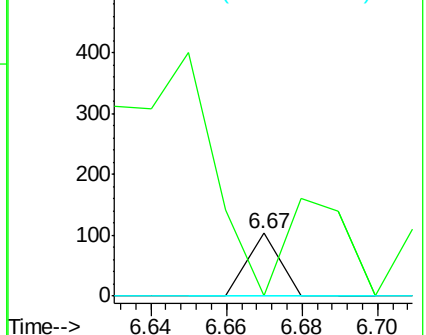
58 0.0 59.9 89.9#

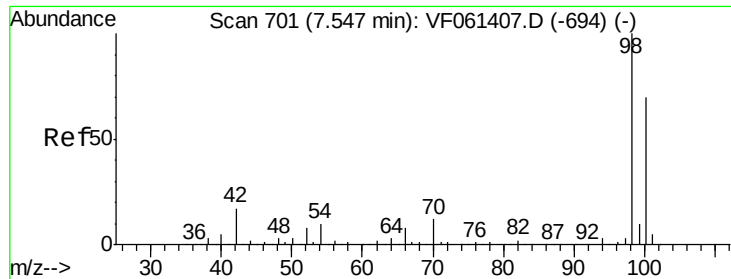


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 52.487 ug/l

RT: 7.53 min Scan# 699

Delta R.T. -0.02 min

Lab File: VF061437.D

Acq: 17 Jan 2019 11:32

Instrument :

MSVOA_F

ClientSampleId :

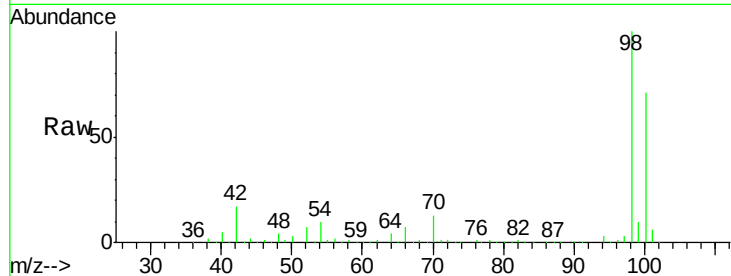
VF0117SBL01

Tot Ion: 98 Resp: 408978

Ion Ratio Lower Upper

98 100

100 70.8 55.6 83.4



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.53

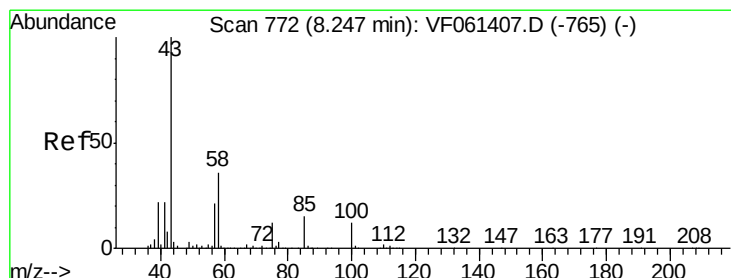
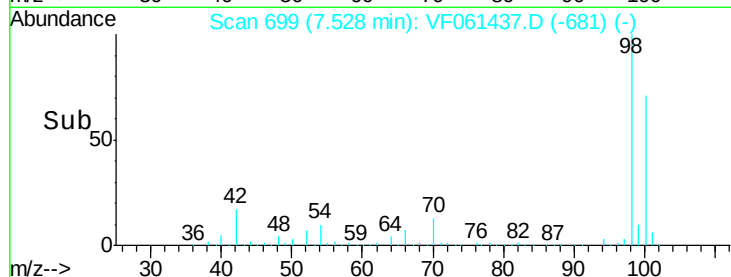
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 2.451 ug/l

RT: 8.24 min Scan# 771

Delta R.T. -0.01 min

Lab File: VF061437.D

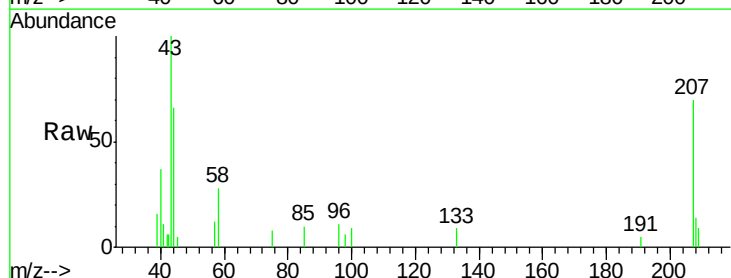
Acq: 17 Jan 2019 11:32

Tgt Ion: 43 Resp: 3778

Ion Ratio Lower Upper

43 100

58 27.9 28.8 43.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.24

2000

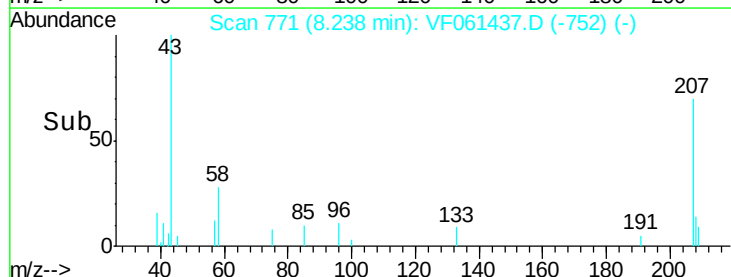
1500

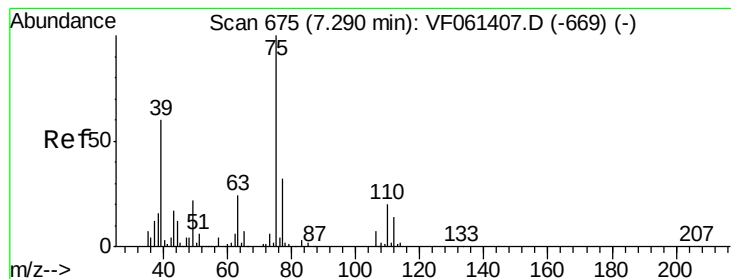
1000

500

0

Time-->

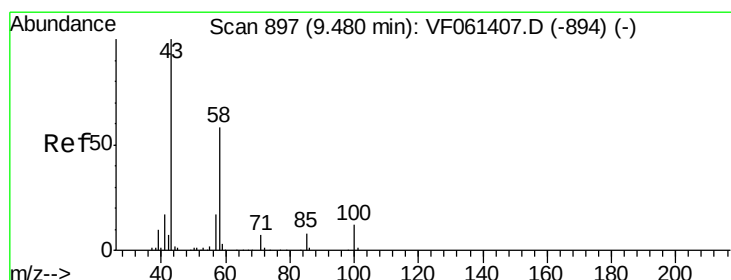
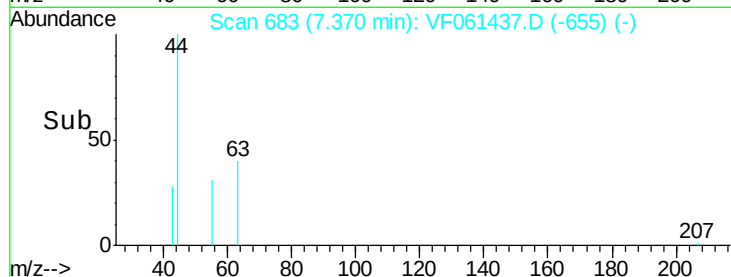
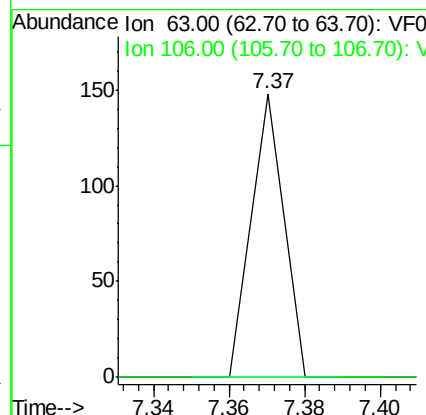
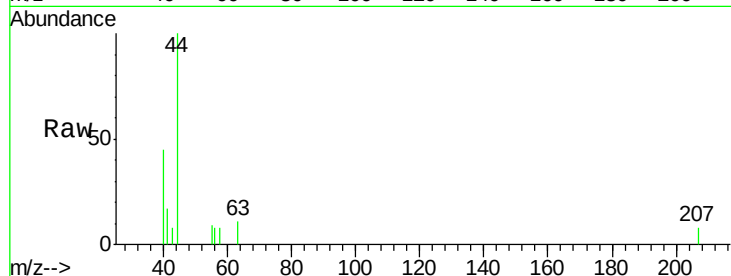




#58
 2-Chloroethyl Vinyl ether
 Concen: 27.887 ug/l
 RT: 7.37 min Scan# 683
 Delta R.T. 0.08 min
 Lab File: VF061437.D
 Acq: 17 Jan 2019 11:32

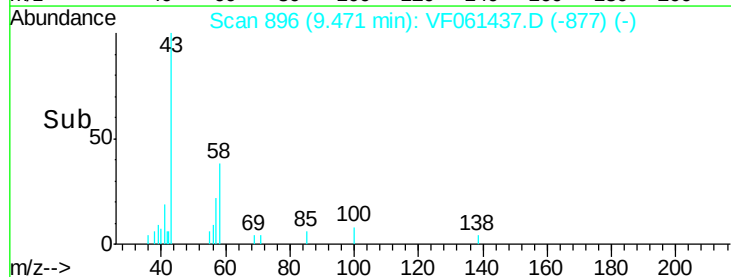
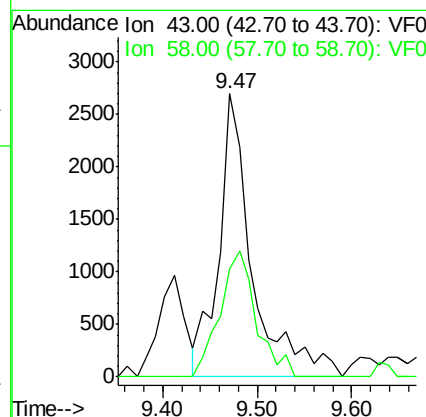
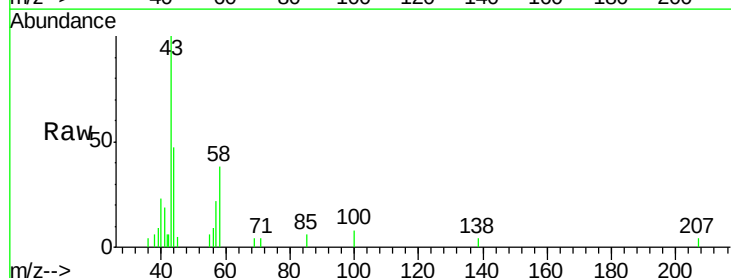
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0117SBL01

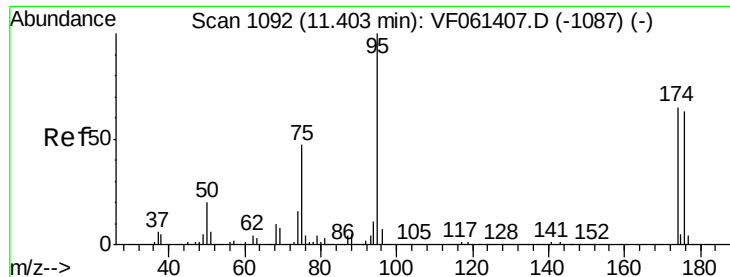
Tot Ion: 63 Resp: 88
 Ion Ratio Lower Upper
 63 100
 106 0.0 21.9 32.9#



#59
 2-Hexanone
 Concen: 6.142 ug/l
 RT: 9.47 min Scan# 896
 Delta R.T. -0.01 min
 Lab File: VF061437.D
 Acq: 17 Jan 2019 11:32

Tgt Ion: 43 Resp: 6601
 Ion Ratio Lower Upper
 43 100
 58 38.4 25.9 77.6





#62

4-Bromofluorobenzene

Concen: 54.770 ug/l

RT: 11.39 min Scan# 1091

Delta R.T. -0.01 min

Lab File: VF061437.D

Acq: 17 Jan 2019 11:32

Instrument :

MSVOA_F

ClientSampleId :

VF0117SBL01

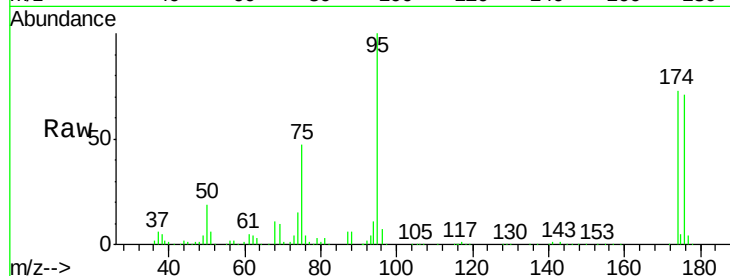
Tot Ion: 95 Resp: 199398

Ion Ratio Lower Upper

95 100

174 73.2 0.0 130.4

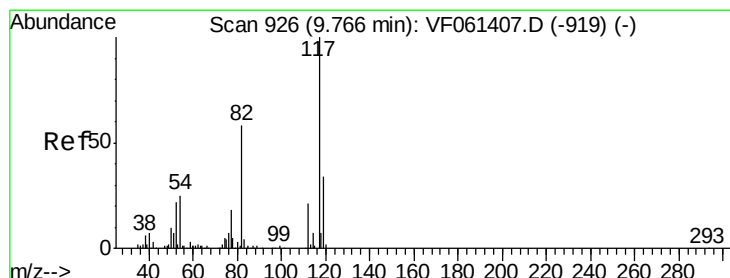
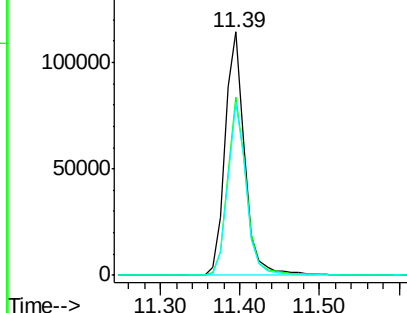
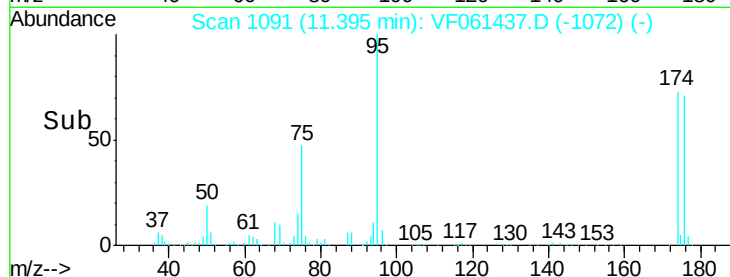
176 71.1 0.0 126.2



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# 924

Delta R.T. -0.02 min

Lab File: VF061437.D

Acq: 17 Jan 2019 11:32

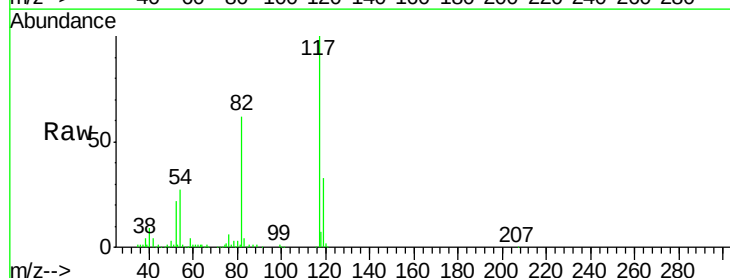
Tgt Ion: 117 Resp: 316284

Ion Ratio Lower Upper

117 100

82 61.6 46.4 69.6

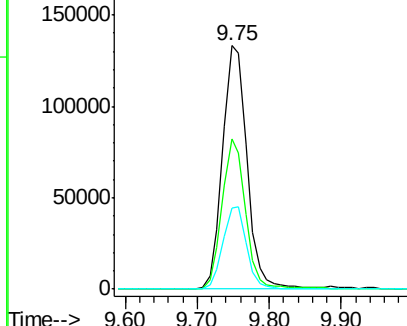
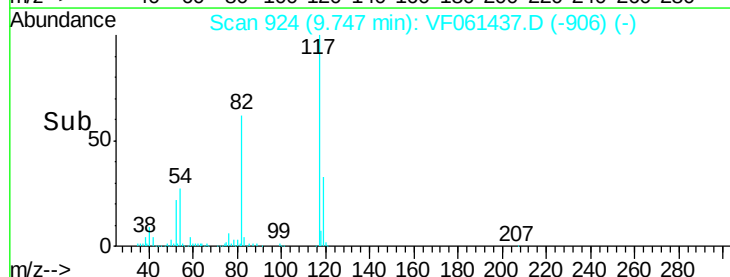
119 33.3 27.2 40.8

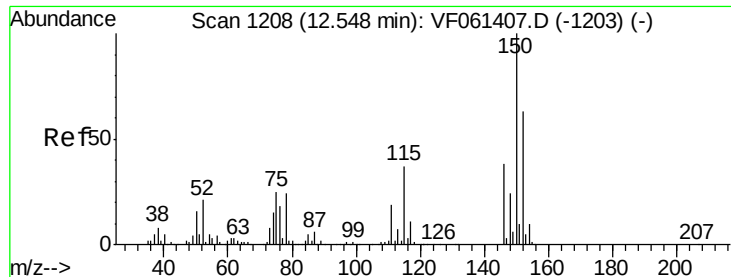


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V



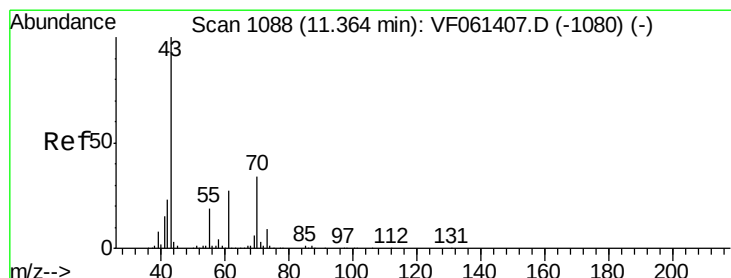
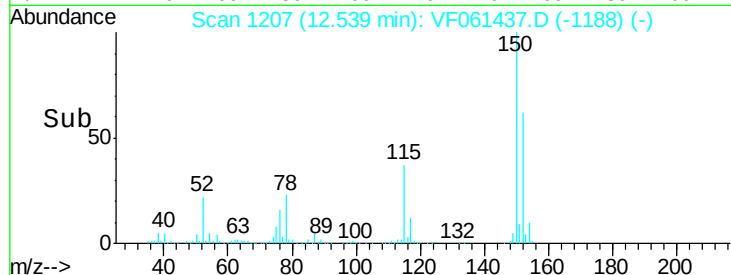
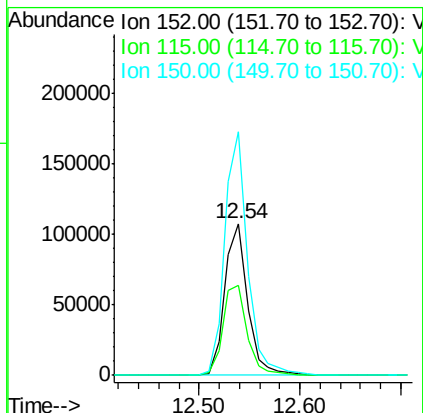
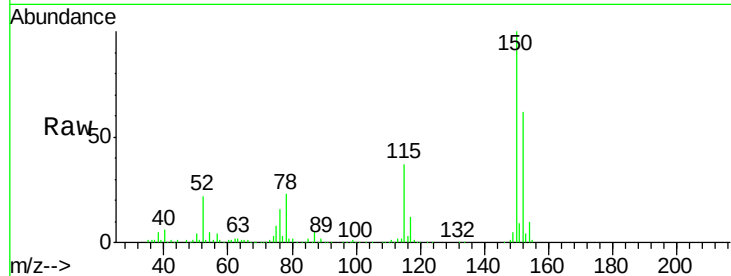


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1207
Delta R.T. -0.01 min
Lab File: VF061437.D
Acq: 17 Jan 2019 11:32

Instrument :
MSVOA_F
ClientSampleId :
VF0117SBL01

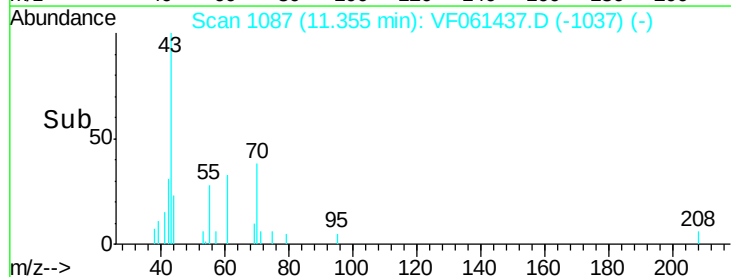
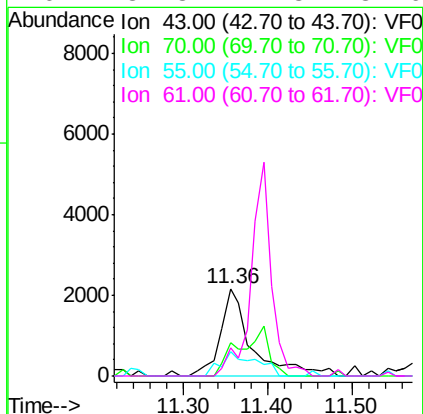
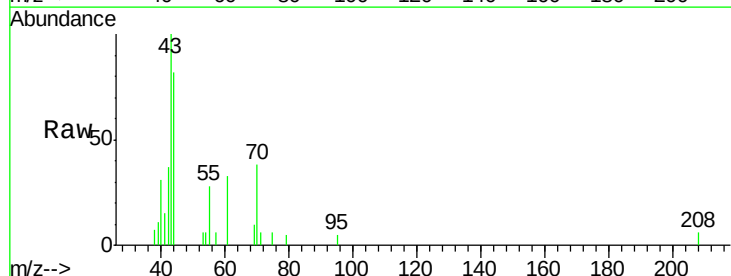
Tot Ion:152 Resp: 170700
Ion Ratio Lower Upper
152 100
115 59.4 30.0 90.0
150 160.4 0.0 321.4

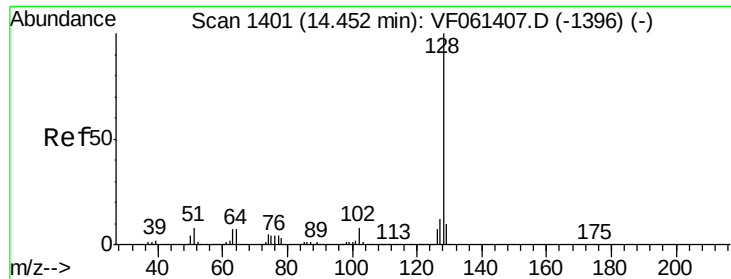


#74

N-amyl acetate
Concen: 1.702 ug/l
RT: 11.36 min Scan# 1087
Delta R.T. -0.01 min
Lab File: VF061437.D
Acq: 17 Jan 2019 11:32

Tgt Ion: 43 Resp: 5587
Ion Ratio Lower Upper
43 100
70 37.6 27.6 41.4
55 28.4 15.4 23.2#
61 32.8 21.8 32.6#

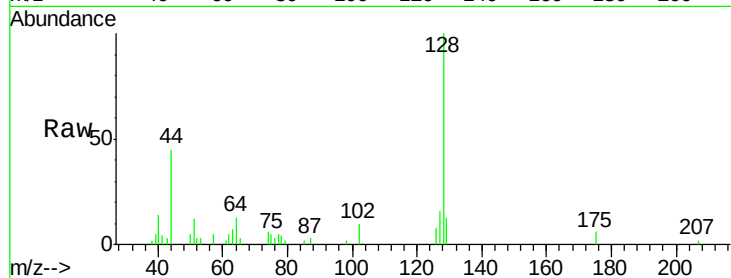




#95
 Naphthalene
 Concen: 1.178 ug/l
 RT: 14.44 min Scan# 1400
 Delta R.T. -0.01 min
 Lab File: VF061437.D
 Acq: 17 Jan 2019 11:32

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0117SBL01

Tot Ion	Ratio	Lower	Upper
128	100		
127	15.6	9.5	14.3#
129	12.6	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

