

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF020719\
 Data File : VF061549.D
 Acq On : 7 Feb 2019 17:13
 Operator : VA/AP
 Sample : K1401-07
 Misc : 4.45g/5mL/MSVOA-F/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 RT-3451

Quant Time: Feb 09 04:35:39 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	170916	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.59	114	293751	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	254672	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	95429	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	122802	58.20	ug/l	0.00
Spiked Amount			Recovery	=	116.40%	
35) Dibromofluoromethane	4.11	113	133360	57.53	ug/l	0.00
Spiked Amount			Recovery	=	115.06%	
50) Toluene-d8	7.55	98	303854	47.85	ug/l	0.00
Spiked Amount			Recovery	=	95.70%	
62) 4-Bromofluorobenzene	11.41	95	122340	41.23	ug/l	0.00
Spiked Amount			Recovery	=	82.46%	

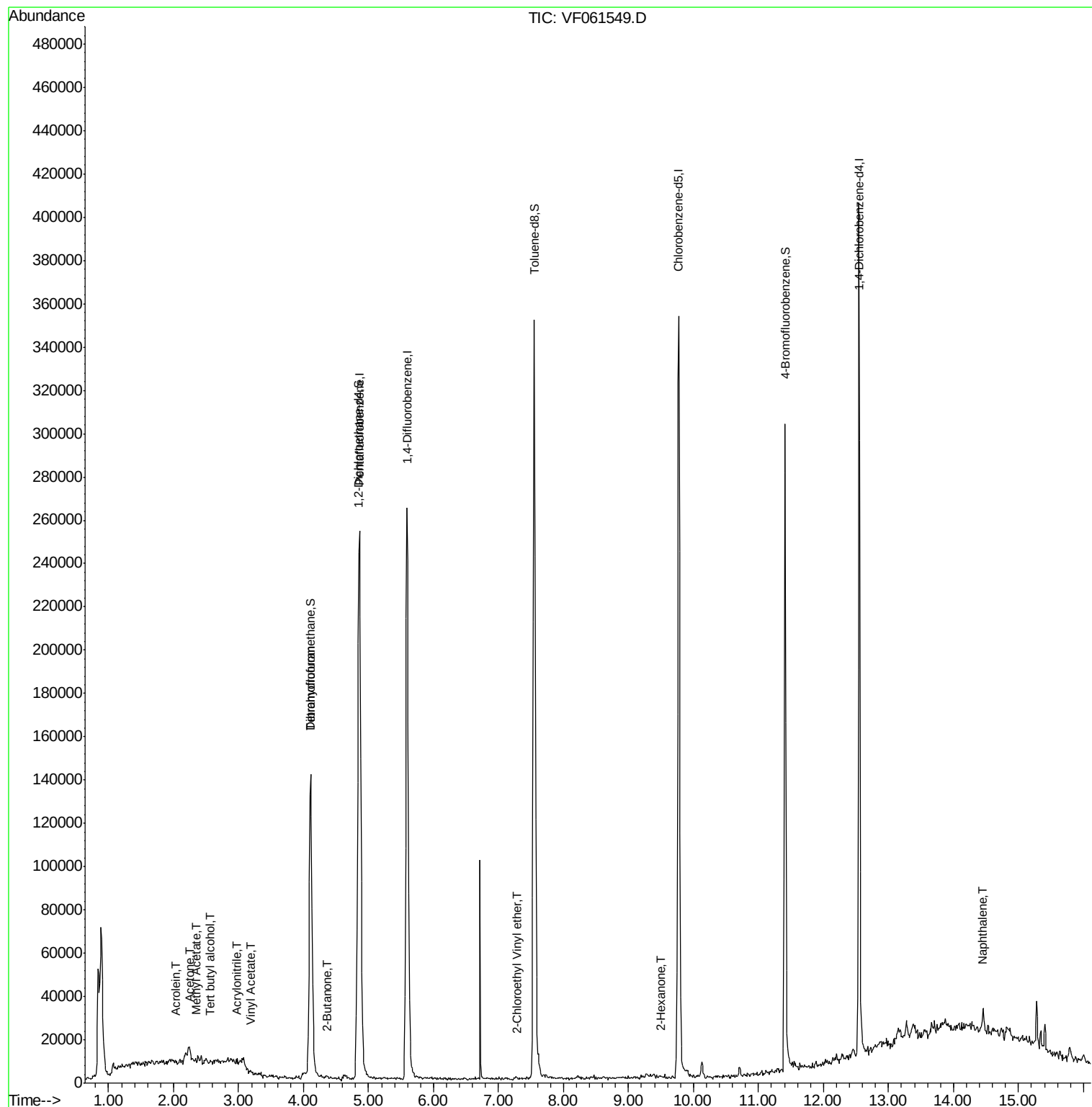
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.55	59	151	1.691	ug/l #	1
13) Acrolein	2.04	56	566	17.390	ug/l	96
14) Allyl chloride	2.10	41	511	Below Cal	#	53
15) Acrylonitrile	2.97	53	868	3.794	ug/l #	55
16) Acetone	2.24	43	6152	14.533	ug/l	96
18) Methyl Acetate	2.36	43	1279	1.523	ug/l #	61
20) Methylene Chloride	2.19	84	1974	Below Cal	#	59
23) Vinyl Acetate	3.18	43	567	3.429	ug/l #	78
25) 2-Butanone	4.35	43	1017	1.445	ug/l #	57
29) Tetrahydrofuran	4.10	42	477	1.574	ug/l #	38
49) 1,4-Dioxane	6.94	88	65	Below Cal	#	13
58) 2-Chloroethyl Vinyl ether	7.29	63	65	27.852	ug/l #	47
59) 2-Hexanone	9.50	43	1071	1.223	ug/l #	59
95) Naphthalene	14.45	128	7765	1.903	ug/l #	91

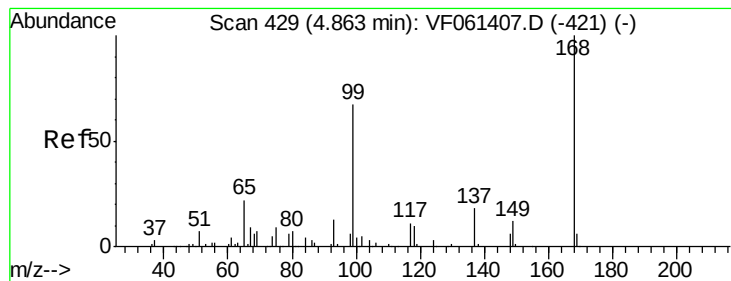
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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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: VF061549.D

Acq: 7 Feb 2019 17:13

Instrument :

MSVOA_F

ClientSampleId :

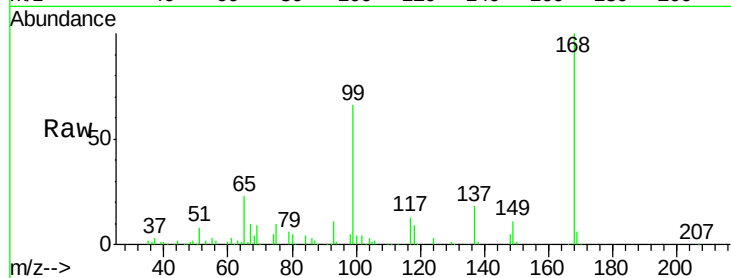
RT-3451

Tot Ion:168 Resp: 170916

Ion Ratio Lower Upper

168 100

99 65.5 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

60000

50000

40000

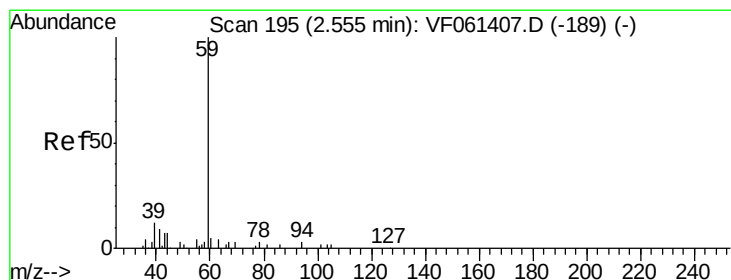
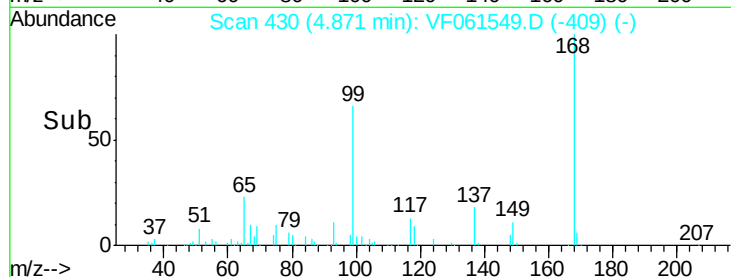
30000

20000

10000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#11

Tert butyl alcohol

Concen: 1.691 ug/l

RT: 2.55 min Scan# 195

Delta R.T. -0.00 min

Lab File: VF061549.D

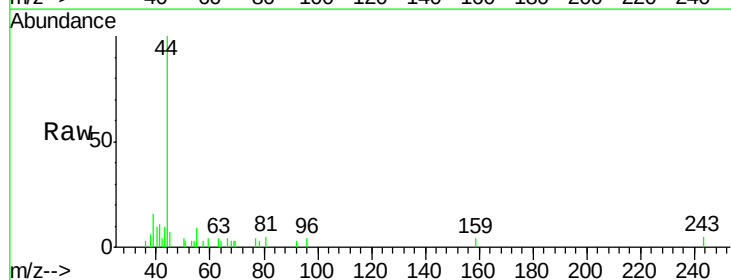
Acq: 7 Feb 2019 17:13

Tgt Ion: 59 Resp: 151

Ion Ratio Lower Upper

59 100

57 74.1 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

250

200

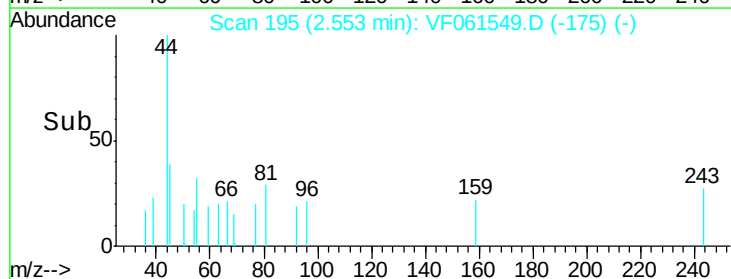
150

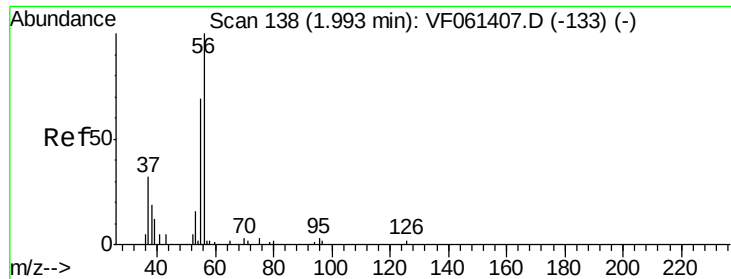
100

50

0

Time--> 2.52 2.54 2.56 2.58





#13

Acrolein

Concen: 17.390 ug/l

RT: 2.04 min Scan# 143

Delta R.T. 0.05 min

Lab File: VF061549.D

Acq: 7 Feb 2019 17:13

Instrument :

MSVOA_F

ClientSampled :

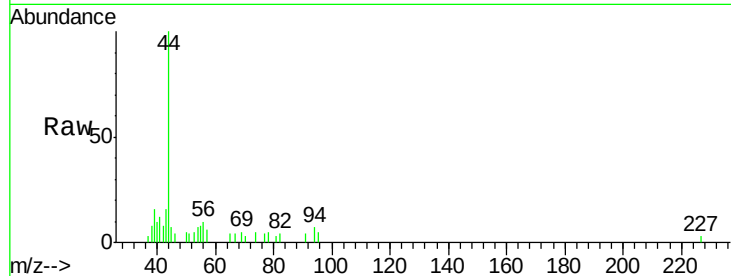
RT-3451

Tot Ion: 56 Resp: 566

Ion Ratio Lower Upper

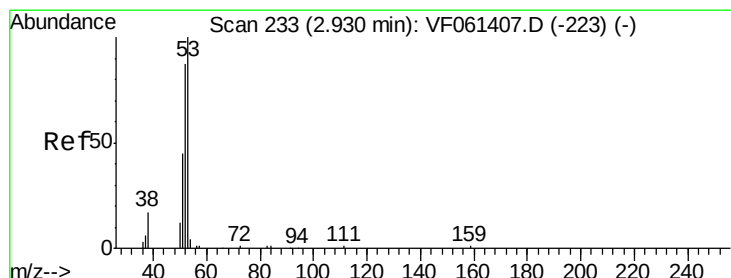
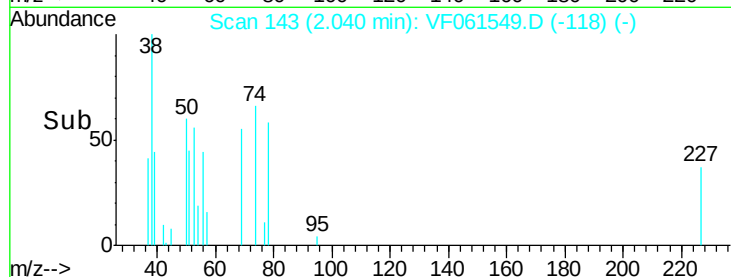
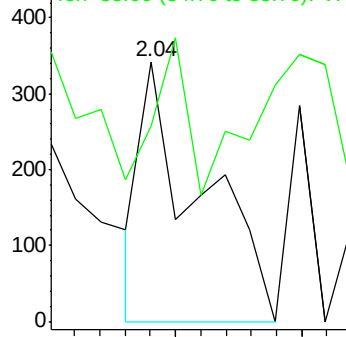
56 100

55 75.1 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: 3.794 ug/l

RT: 2.97 min Scan# 237

Delta R.T. 0.04 min

Lab File: VF061549.D

Acq: 7 Feb 2019 17:13

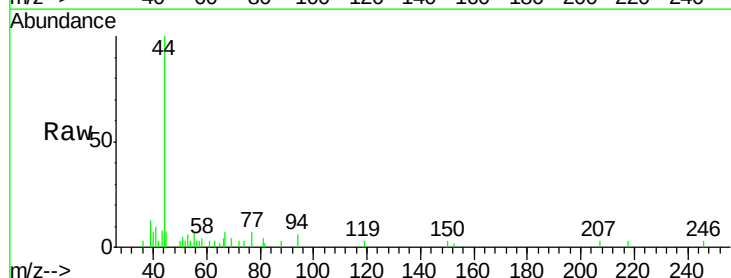
Tgt Ion: 53 Resp: 868

Ion Ratio Lower Upper

53 100

52 48.3 69.6 104.4#

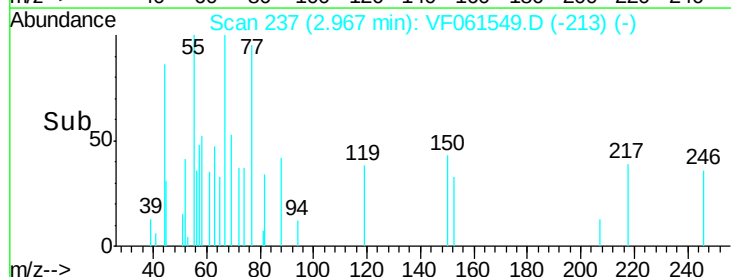
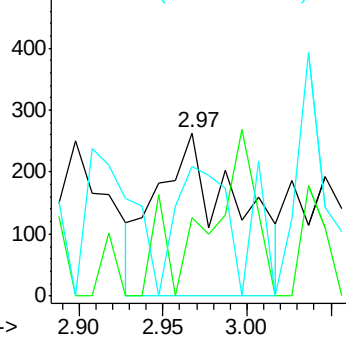
51 79.5 36.8 55.2#

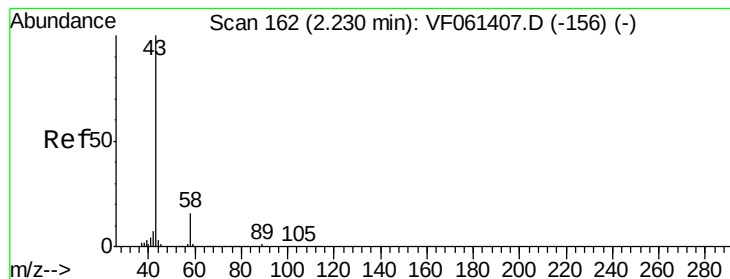


Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0





#16

Acetone

Concen: 14.533 ug/l

RT: 2.24 min Scan# 163

Delta R.T. 0.01 min

Lab File: VF061549.D

Acq: 7 Feb 2019 17:13

Instrument :

MSVOA_F

ClientSampleId :

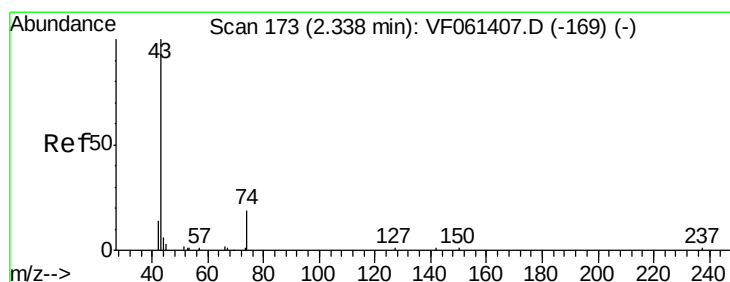
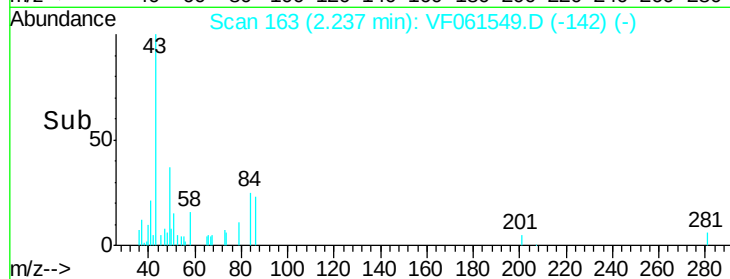
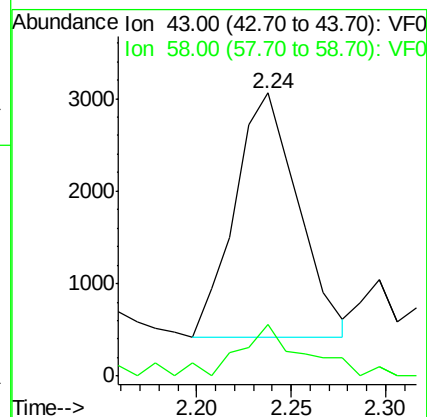
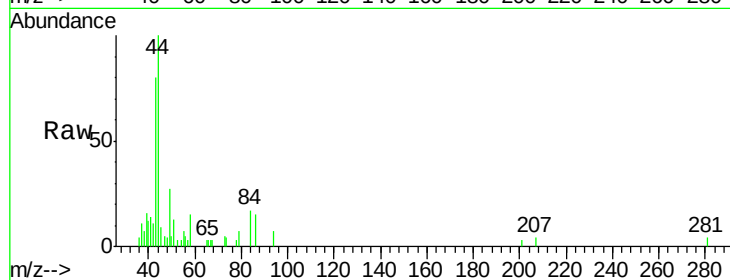
RT-3451

Tot Ion: 43 Resp: 6152

Ion Ratio Lower Upper

43 100

58 18.2 13.3 19.9



#18

Methyl Acetate

Concen: 1.523 ug/l

RT: 2.36 min Scan# 175

Delta R.T. 0.02 min

Lab File: VF061549.D

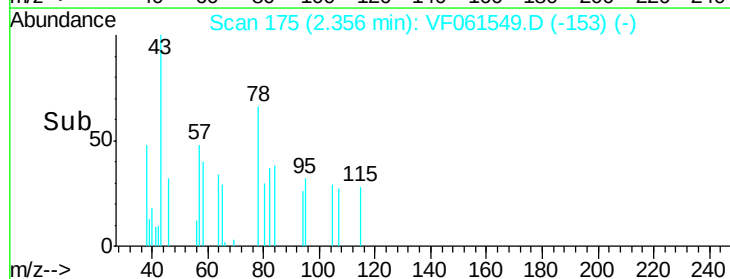
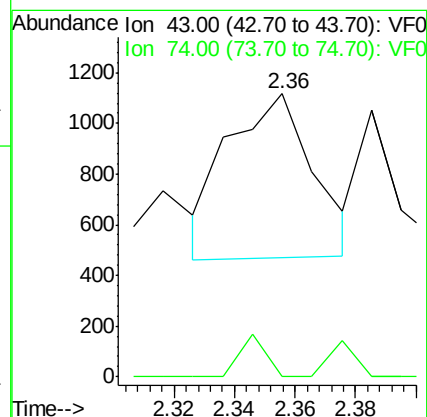
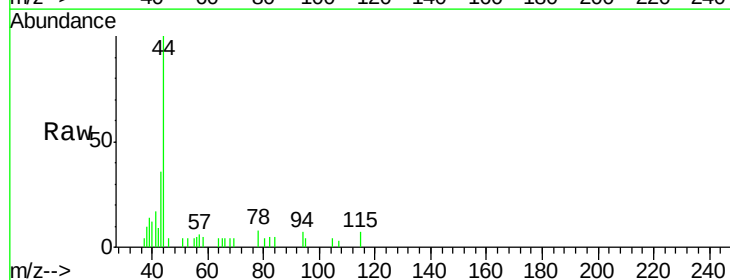
Acq: 7 Feb 2019 17:13

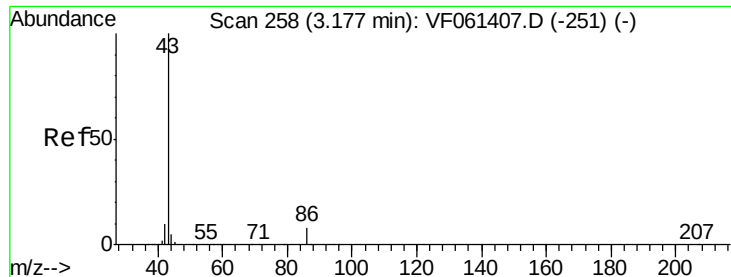
Tgt Ion: 43 Resp: 1279

Ion Ratio Lower Upper

43 100

74 0.0 13.4 20.0#





#23

Vinyl Acetate

Concen: 3.429 ug/l

RT: 3.18 min Scan# 259

Delta R.T. 0.01 min

Lab File: VF061549.D

Acq: 7 Feb 2019 17:13

Instrument :

MSVOA_F

ClientSampled :

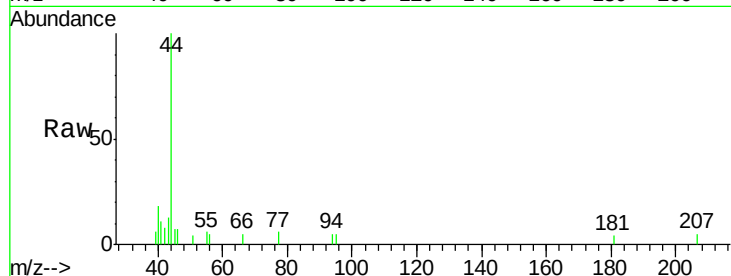
RT-3451

Tot Ion: 43 Resp: 567

Ion Ratio Lower Upper

43 100

86 0.0 6.2 9.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.18

3.20

3.22

3.24

3.26

3.28

3.30

3.32

3.34

3.36

3.38

3.40

3.42

3.44

3.46

3.48

3.50

3.52

3.54

3.56

3.58

3.60

3.62

3.64

3.66

3.68

3.70

3.72

3.74

3.76

3.78

3.80

3.82

3.84

3.86

3.88

3.90

3.92

3.94

3.96

3.98

4.00

4.02

4.04

4.06

4.08

4.10

4.12

4.14

4.16

4.18

4.20

4.22

4.24

4.26

4.28

4.30

4.32

4.34

4.36

4.38

4.40

4.42

4.44

4.46

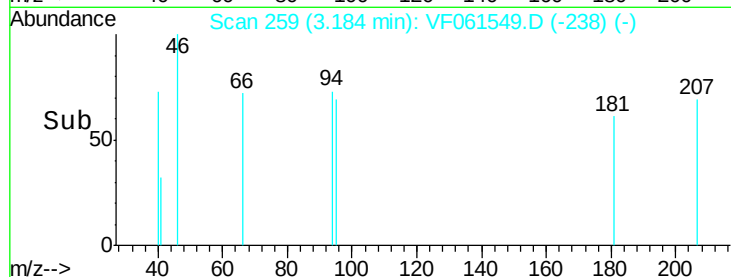
4.48

4.50

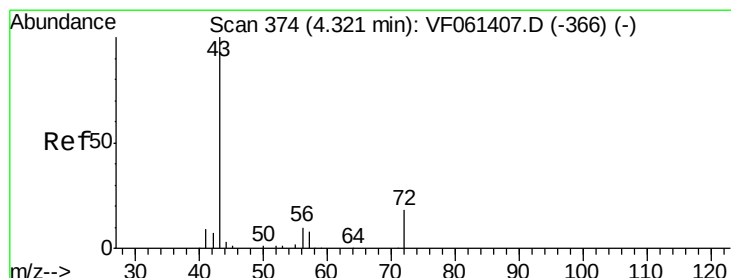
4.52

4.54

4.56



Time-->



#25

2-Butanone

Concen: 1.445 ug/l

RT: 4.35 min Scan# 377

Delta R.T. 0.03 min

Lab File: VF061549.D

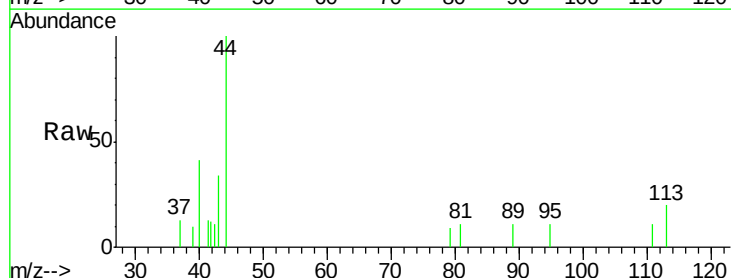
Acq: 7 Feb 2019 17:13

Tgt Ion: 43 Resp: 1017

Ion Ratio Lower Upper

43 100

72 0.0 15.8 23.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

4.35

4.37

4.39

4.41

4.43

4.45

4.47

4.49

4.51

4.53

4.55

4.57

4.59

4.61

4.63

4.65

4.67

4.69

4.71

4.73

4.75

4.77

4.79

4.81

4.83

4.85

4.87

4.89

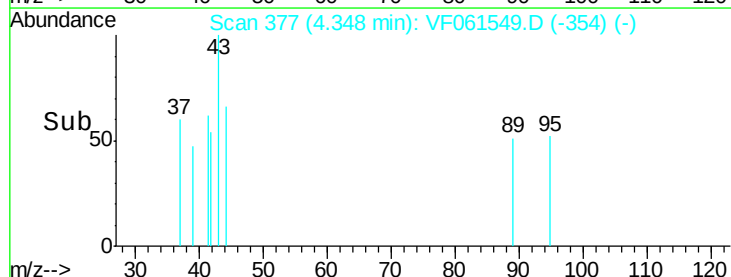
4.91

4.93

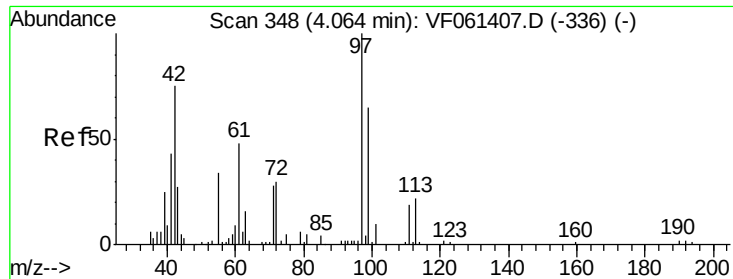
4.95

4.97

4.99



Time-->



#29

Tetrahydrofuran

Concen: 1.574 ug/l

RT: 4.10 min Scan# 352

Delta R.T. 0.04 min

Lab File: VF061549.D

Acq: 7 Feb 2019 17:13

Instrument :

MSVOA_F

ClientSampleId :

RT-3451

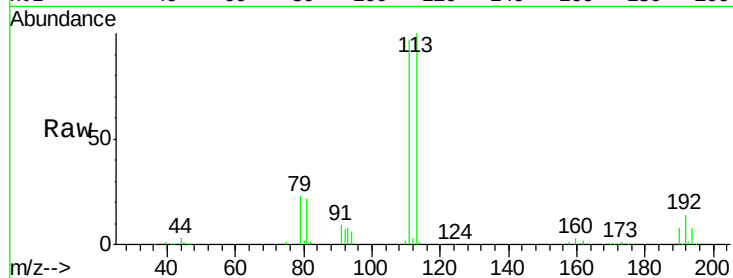
Tot Ion: 42 Resp: 477

Ion Ratio Lower Upper

42 100

72 0.0 28.9 43.3#

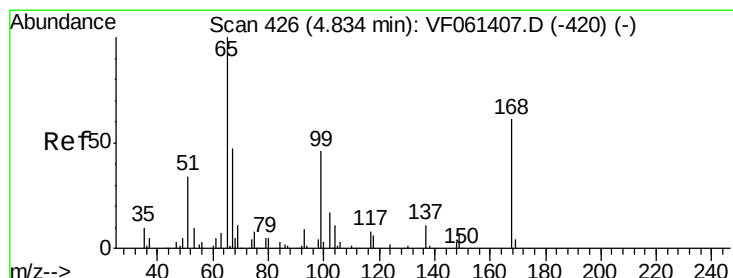
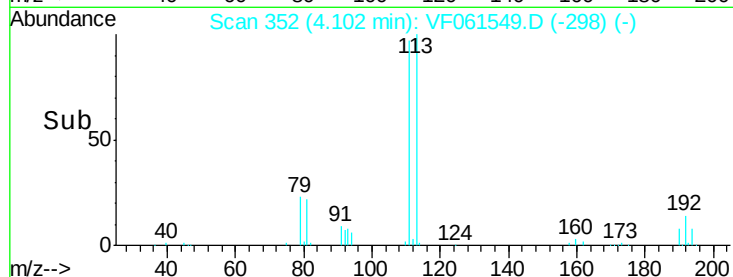
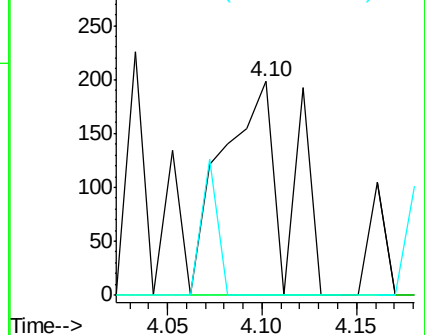
71 0.0 29.6 44.4#



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: 58.195 ug/l

RT: 4.84 min Scan# 427

Delta R.T. 0.01 min

Lab File: VF061549.D

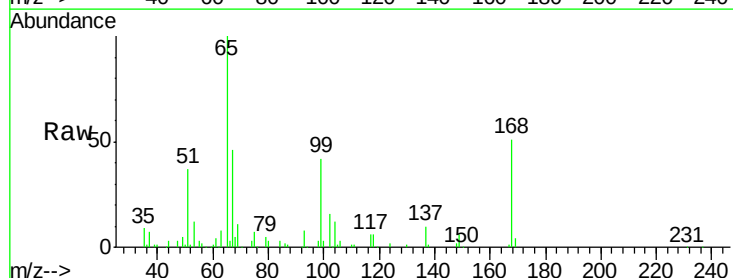
Acq: 7 Feb 2019 17:13

Tgt Ion: 65 Resp: 122802

Ion Ratio Lower Upper

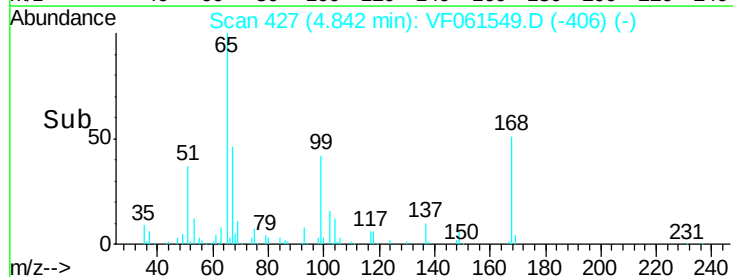
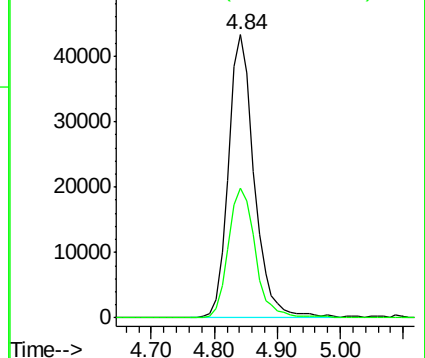
65 100

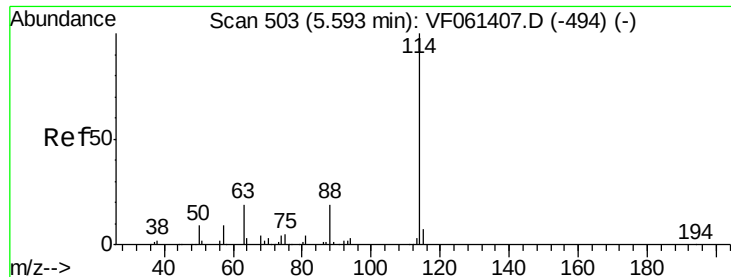
67 46.0 0.0 99.8



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: VF061549.D

Acq: 7 Feb 2019 17:13

Instrument :

MSVOA_F

ClientSampleId :

RT-3451

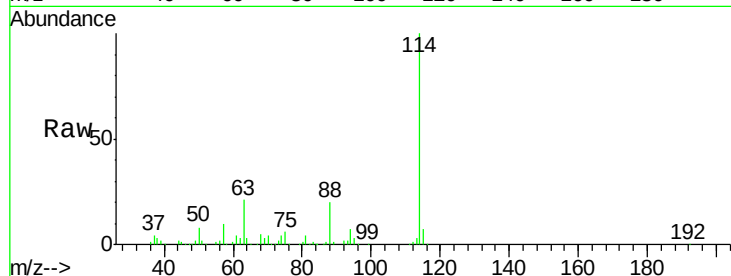
Tot Ion:114 Resp: 293751

Ion Ratio Lower Upper

114 100

63 20.9 0.0 39.0

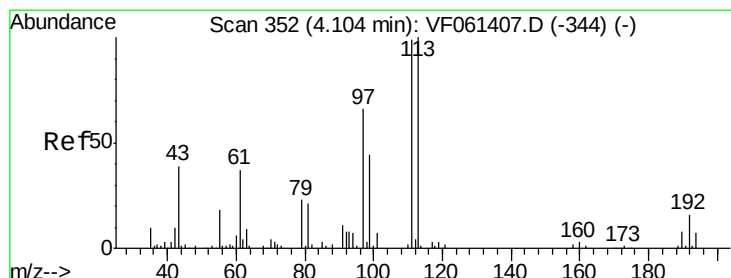
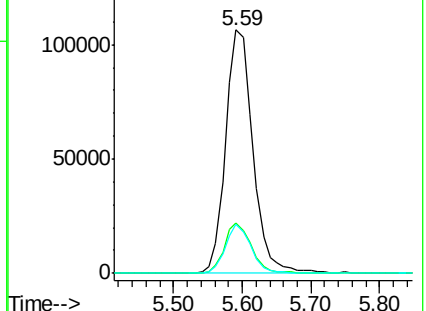
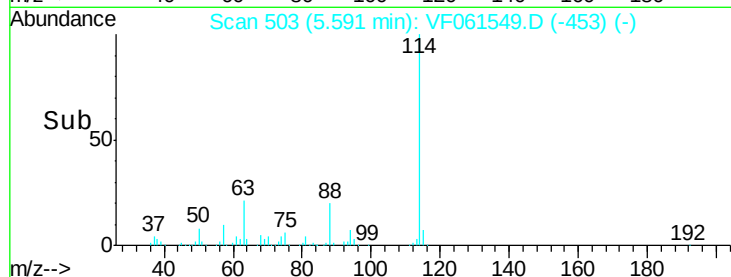
88 20.1 0.0 37.4



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: 57.534 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.01 min

Lab File: VF061549.D

Acq: 7 Feb 2019 17:13

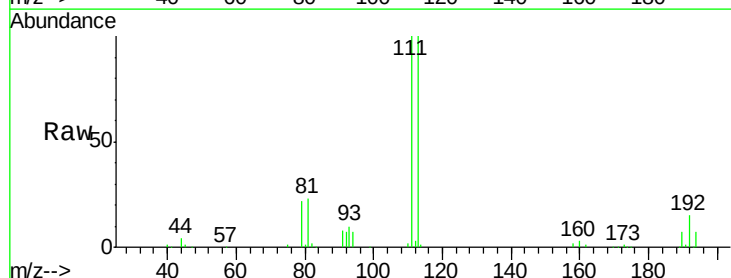
Tgt Ion:113 Resp: 133360

Ion Ratio Lower Upper

113 100

111 99.7 79.4 119.0

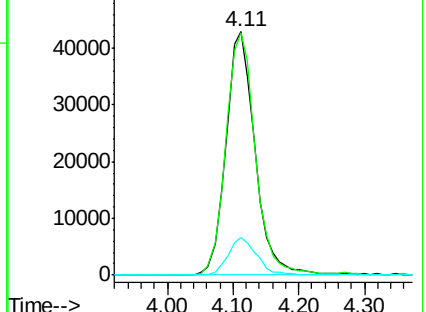
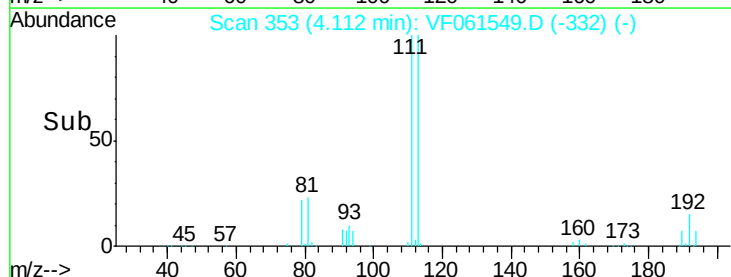
192 15.2 12.4 18.6

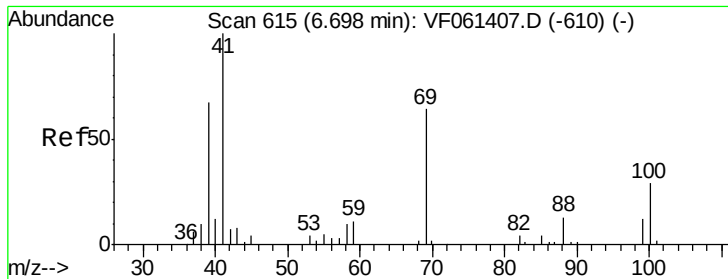


Abundance Ion 113.00 (112.70 to 113.70): V

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: 6.94 min Scan# 640

Delta R.T. 0.24 min

Lab File: VF061549.D

Acq: 7 Feb 2019 17:13

Instrument :

MSVOA_F

ClientSampleId :

RT-3451

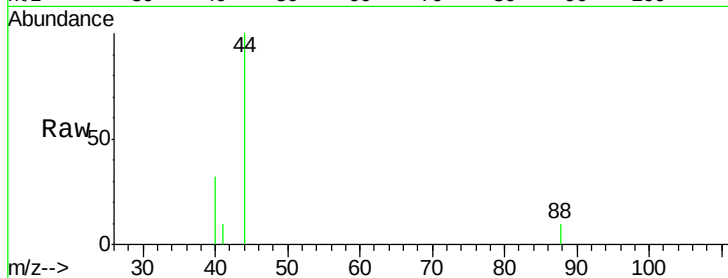
Tot Ion: 88 Resp: 65

Ion Ratio Lower Upper

88 100

43 0.0 55.5 83.3#

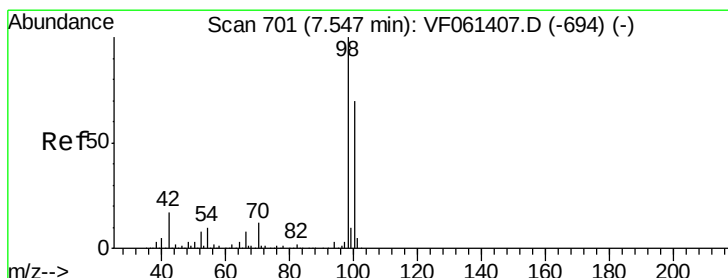
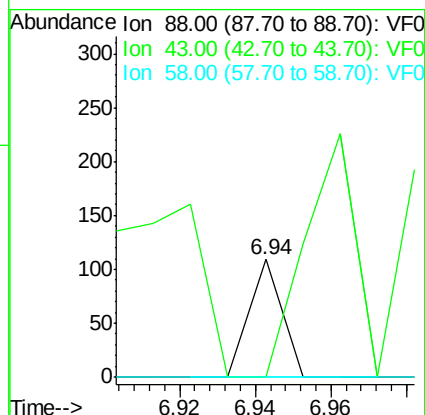
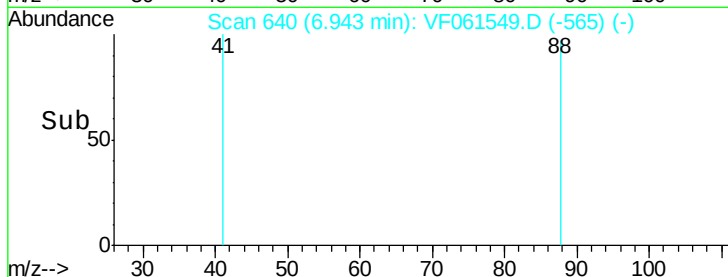
58 0.0 59.9 89.9#



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: 47.845 ug/l

RT: 7.55 min Scan# 702

Delta R.T. 0.01 min

Lab File: VF061549.D

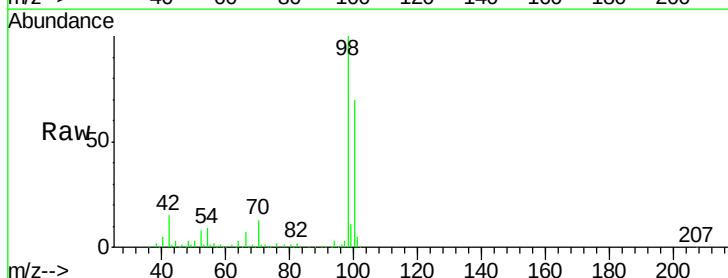
Acq: 7 Feb 2019 17:13

Tgt Ion: 98 Resp: 303854

Ion Ratio Lower Upper

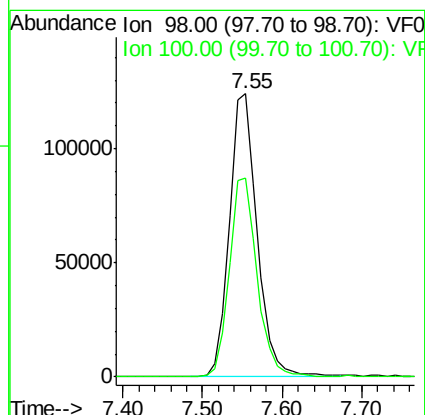
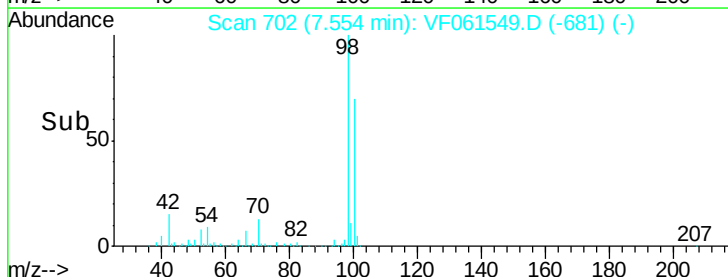
98 100

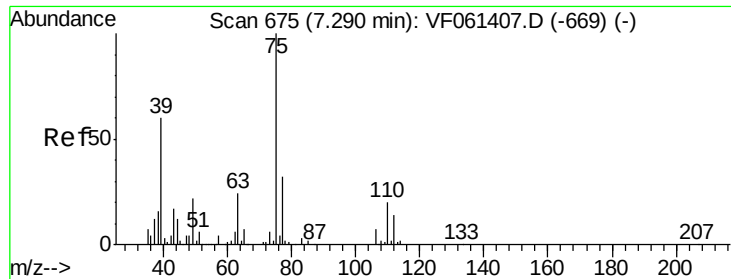
100 70.1 55.6 83.4



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

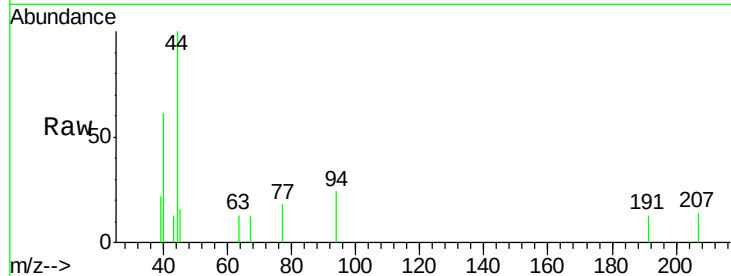




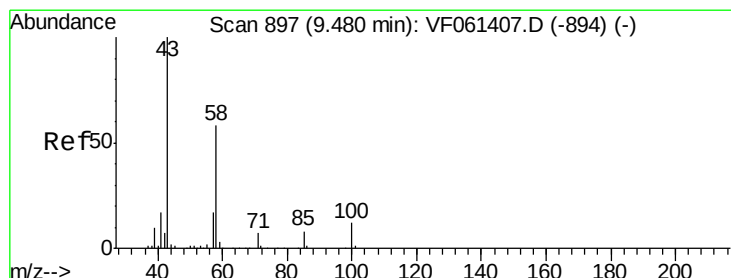
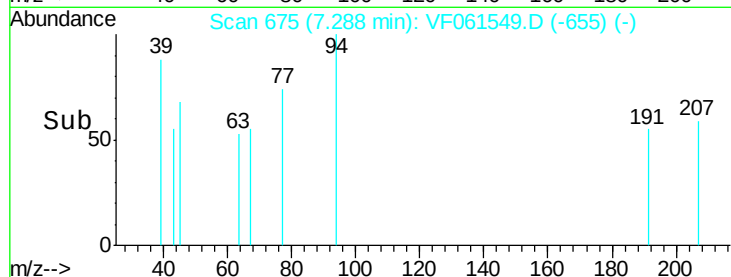
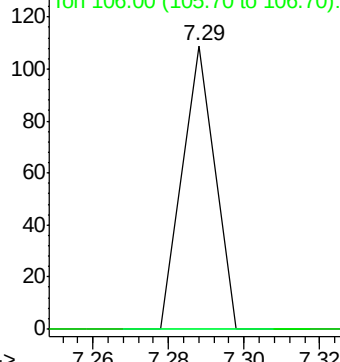
#58
 2-Chloroethyl Vinyl ether
 Concen: 27.852 ug/l
 RT: 7.29 min Scan# 675
 Delta R.T. -0.00 min
 Lab File: VF061549.D
 Acq: 7 Feb 2019 17:13

Instrument :
 MSVOA_F
 ClientSampleID :
 RT-3451

Tot Ion: 63 Resp: 65
 Ion Ratio Lower Upper
 63 100
 106 0.0 21.9 32.9#

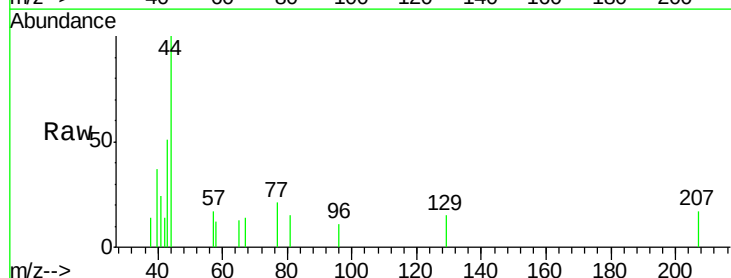


Abundance Ion 63.00 (62.70 to 63.70): VF0
 Ion 106.00 (105.70 to 106.70): V

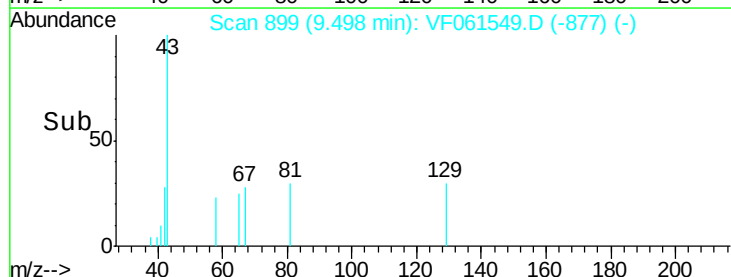
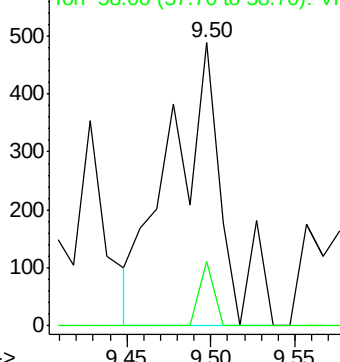


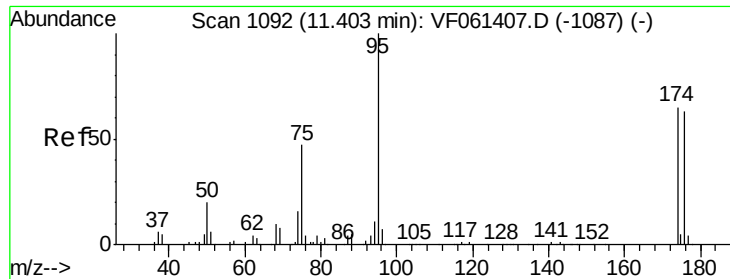
#59
 2-Hexanone
 Concen: 1.223 ug/l
 RT: 9.50 min Scan# 899
 Delta R.T. 0.02 min
 Lab File: VF061549.D
 Acq: 7 Feb 2019 17:13

Tgt Ion: 43 Resp: 1071
 Ion Ratio Lower Upper
 43 100
 58 23.0 25.9 77.6#



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





#62

4-Bromofluorobenzene

Concen: 41.230 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. 0.01 min

Lab File: VF061549.D

Acq: 7 Feb 2019 17:13

Instrument :

MSVOA_F

ClientSampleId :

RT-3451

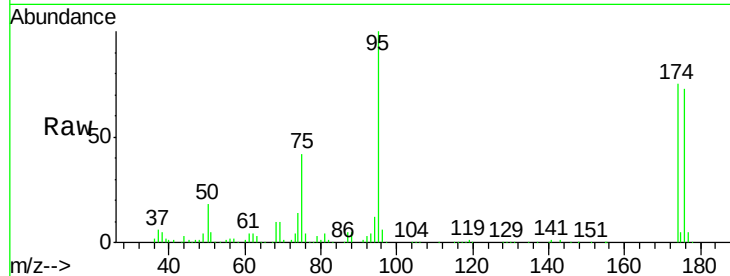
Tot Ion: 95 Resp: 122340

Ion Ratio Lower Upper

95 100

174 74.7 0.0 130.4

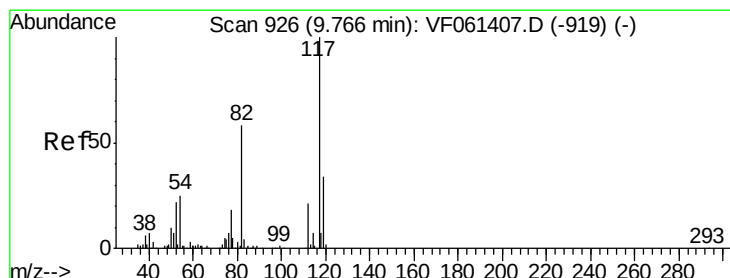
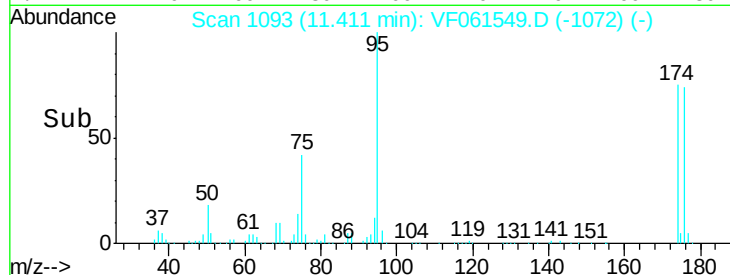
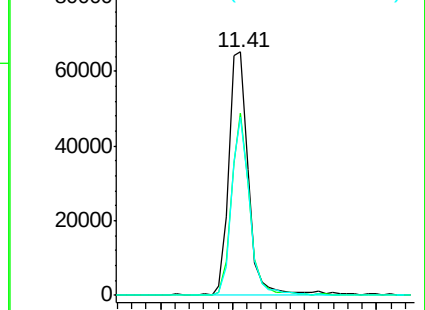
176 73.2 0.0 126.2



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: 9.77 min Scan# 927

Delta R.T. 0.01 min

Lab File: VF061549.D

Acq: 7 Feb 2019 17:13

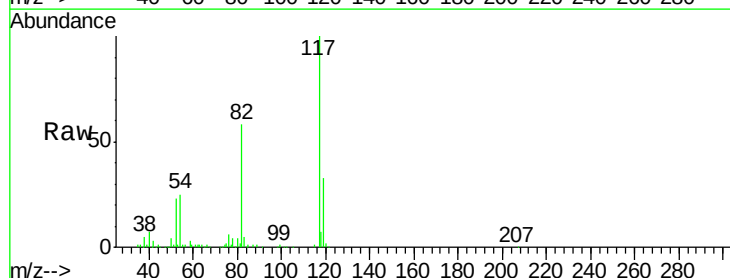
Tgt Ion: 117 Resp: 254672

Ion Ratio Lower Upper

117 100

82 58.3 46.4 69.6

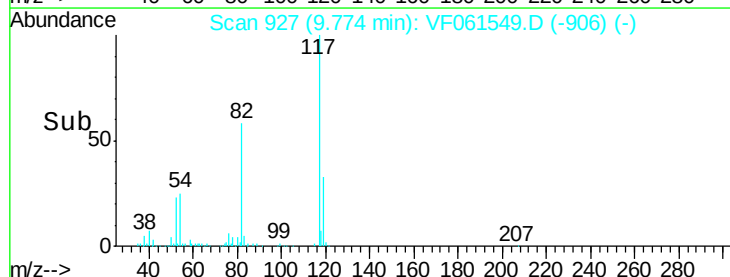
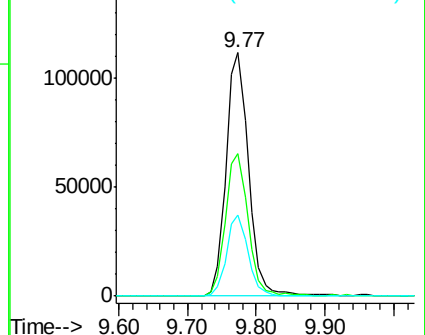
119 33.3 27.2 40.8

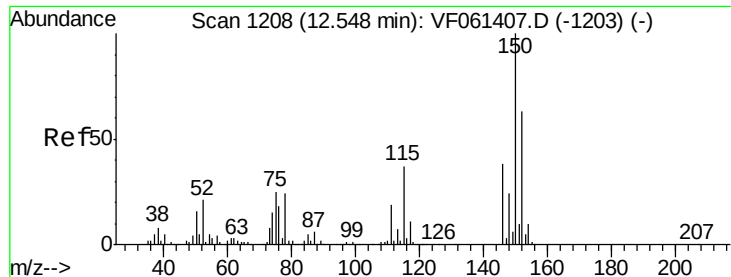


Abundance Ion 117.00 (116.70 to 117.70): VF061407.D (-919) (-)

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: VF061549.D

Acq: 7 Feb 2019 17:13

Instrument :

MSVOA_F

ClientSampleId :

RT-3451

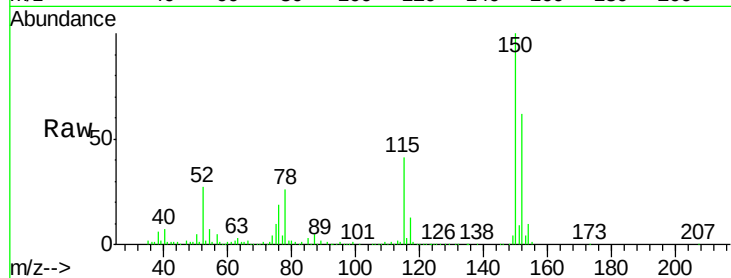
Tot Ion:152 Resp: 95429

Ion Ratio Lower Upper

152 100

115 66.4 30.0 90.0

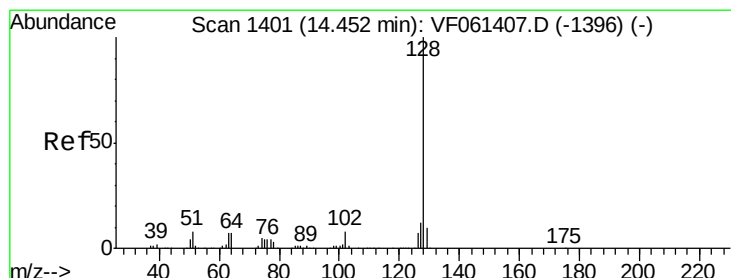
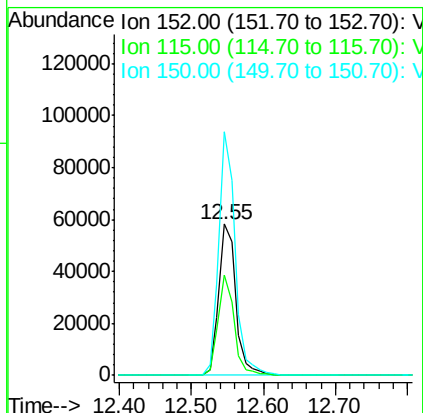
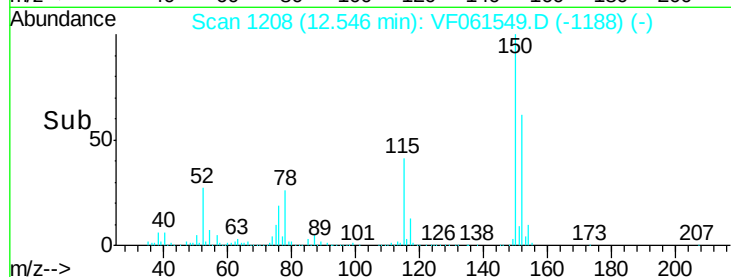
150 161.0 0.0 321.4



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



#95

Naphthalene

Concen: 1.903 ug/l

RT: 14.45 min Scan# 1401

Delta R.T. -0.00 min

Lab File: VF061549.D

Acq: 7 Feb 2019 17:13

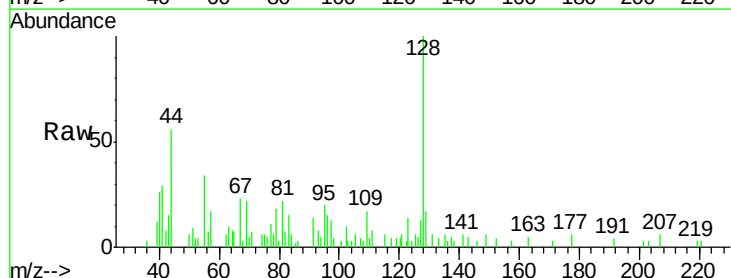
Tgt Ion:128 Resp: 7765

Ion Ratio Lower Upper

128 100

127 12.6 9.5 14.3

129 17.2 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

