

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF020719\
 Data File : VF061555.D
 Acq On : 7 Feb 2019 20:06
 Operator : VA/AP
 Sample : K1404-06
 Misc : 5.42g/5mL/MSVOA-F/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 A0C12-SS2-3.5-4.0

Quant Time: Feb 09 04:37:48 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	4.86	168	197979	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.59	114	341035	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	307203	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.55	152	148857	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	120357	49.24	ug/l	0.01
Spiked Amount			Recovery	=	98.48%	
35) Dibromofluoromethane	4.11	113	137767	51.19	ug/l	0.01
Spiked Amount			Recovery	=	102.38%	
50) Toluene-d8	7.55	98	321625	43.62	ug/l	0.00
Spiked Amount			Recovery	=	87.24%	
62) 4-Bromofluorobenzene	11.40	95	147225	42.74	ug/l	0.00
Spiked Amount			Recovery	=	85.48%	

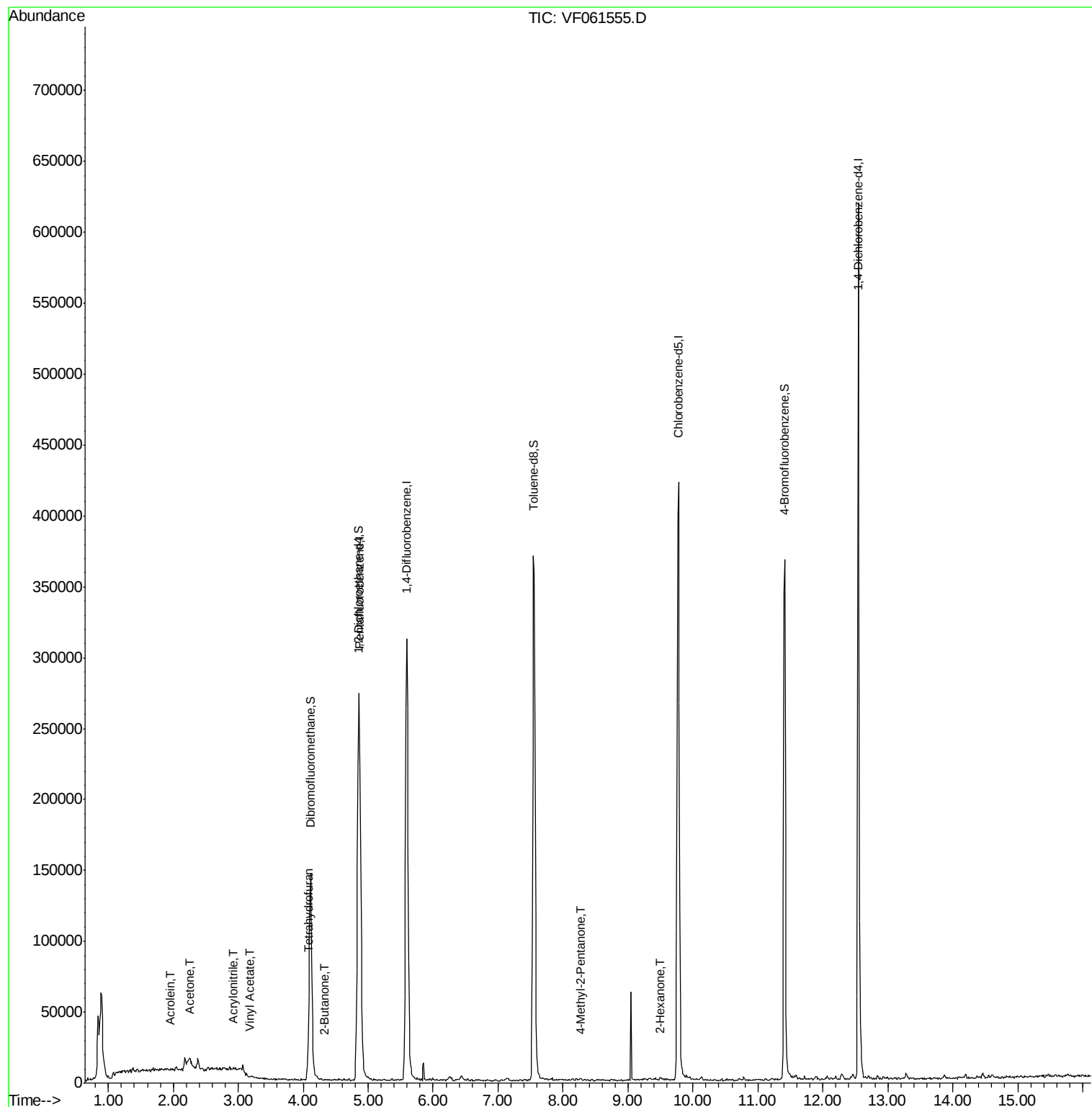
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	1.94	56	250	13.026	ug/l	97
14) Allyl chloride	2.10	41	428	Below Cal	#	44
15) Acrylonitrile	2.93	53	681	2.570	ug/l #	79
16) Acetone	2.24	43	1064	2.170	ug/l #	61
23) Vinyl Acetate	3.19	43	1448	3.712	ug/l #	78
25) 2-Butanone	4.34	43	1310	1.606	ug/l #	57
29) Tetrahydrofuran	4.07	42	1051	2.993	ug/l #	54
49) 1,4-Dioxane	6.37	88	67	Below Cal	#	33
51) 4-Methyl-2-Pentanone	8.26	43	1467	1.006	ug/l #	70
59) 2-Hexanone	9.49	43	1852	1.821	ug/l	81

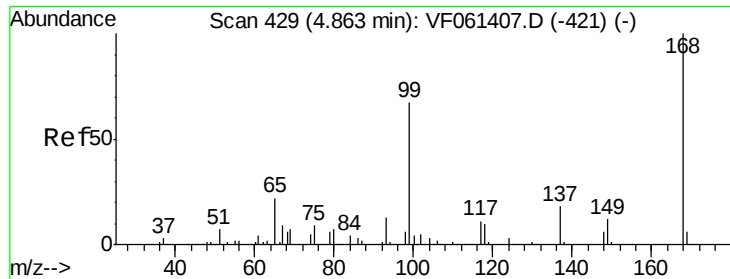
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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A0C12-SS2-3.5-4.0

Quant Time: Feb 09 04:37:48 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: 4.86 min Scan# 429

Delta R.T. 0.00 min

Lab File: VF061555.D

Acq: 7 Feb 2019 20:06

Instrument :

MSVOA_F

ClientSampleId :

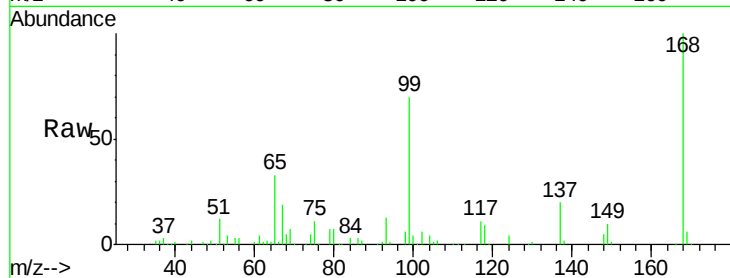
A0C12-SS2-3.5-4.0

Tot Ion:168 Resp: 197979

Ion Ratio Lower Upper

168 100

99 70.0 53.5 80.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

60000

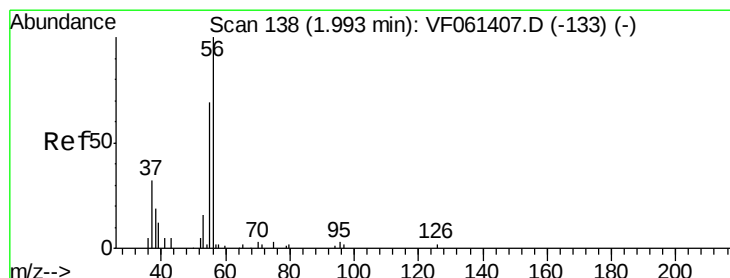
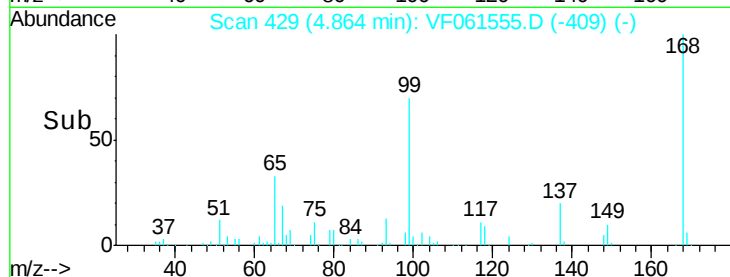
40000

20000

0

Time-->

4.70 4.80 4.90 5.00



#13

Acrolein

Concen: 13.026 ug/l

RT: 1.94 min Scan# 133

Delta R.T. -0.05 min

Lab File: VF061555.D

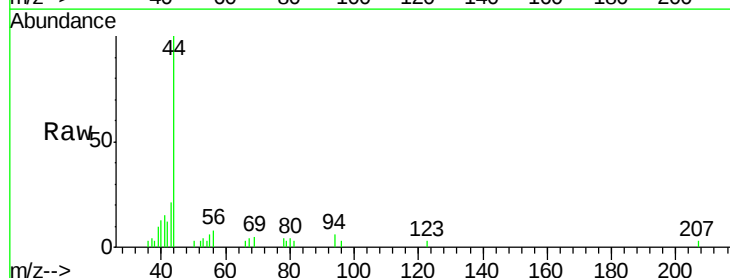
Acq: 7 Feb 2019 20:06

Tgt Ion: 56 Resp: 250

Ion Ratio Lower Upper

56 100

55 69.6 57.5 86.3



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

1.94

300

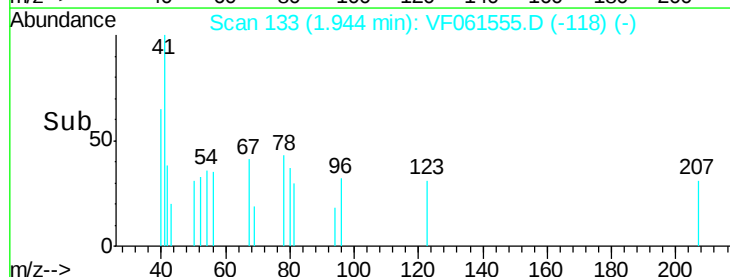
200

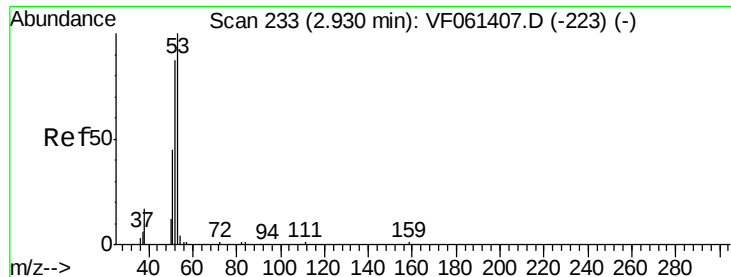
100

0

Time-->

1.92 1.94 1.96





#15

Acrylonitrile

Concen: 2.570 ug/l

RT: 2.93 min Scan# 233

Delta R.T. 0.00 min

Lab File: VF061555.D

Acq: 7 Feb 2019 20:06

Instrument :

MSVOA_F

ClientSampleId :

A0C12-SS2-3.5-4.0

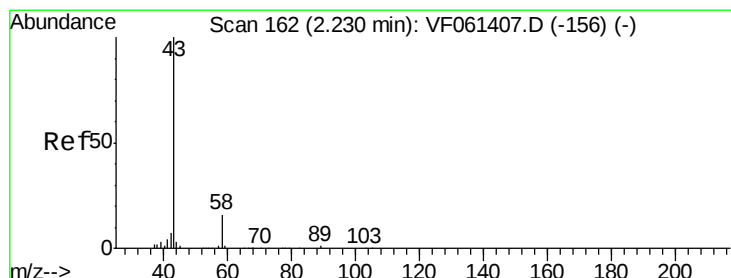
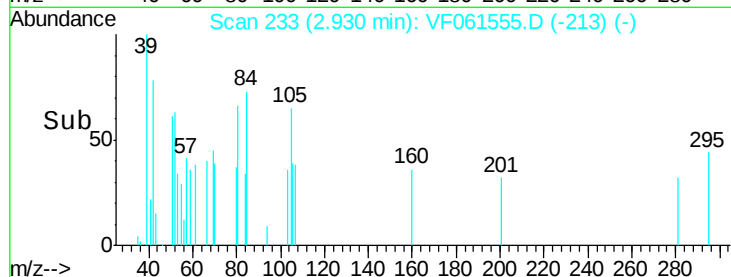
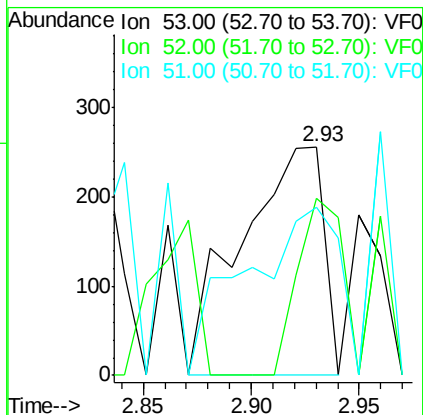
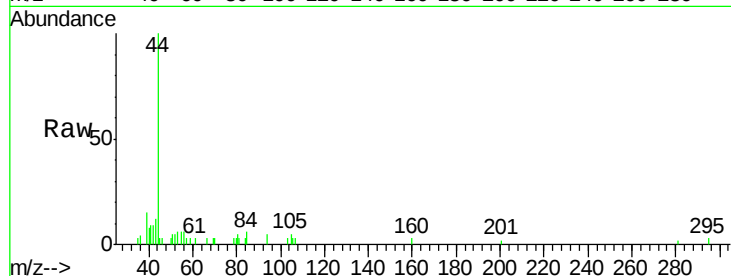
Tot Ion: 53 Resp: 681

Ion Ratio Lower Upper

53 100

52 77.3 69.6 104.4

51 73.8 36.8 55.2#



#16

Acetone

Concen: 2.170 ug/l

RT: 2.24 min Scan# 163

Delta R.T. 0.01 min

Lab File: VF061555.D

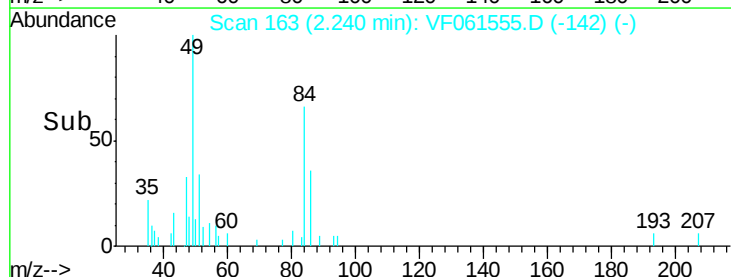
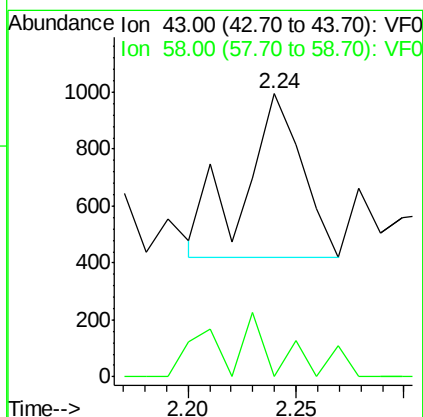
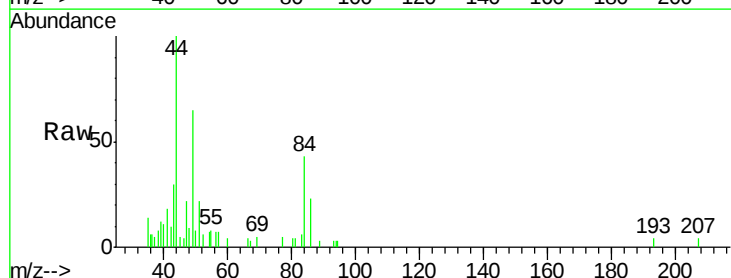
Acq: 7 Feb 2019 20:06

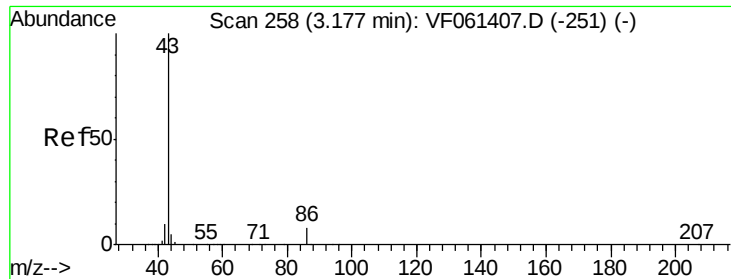
Tgt Ion: 43 Resp: 1064

Ion Ratio Lower Upper

43 100

58 0.0 13.3 19.9#





#23

Vinyl Acetate

Concen: 3.712 ug/l

RT: 3.19 min Scan# 259

Delta R.T. 0.01 min

Lab File: VF061555.D

Acq: 7 Feb 2019 20:06

Instrument :

MSVOA_F

ClientSampleId :

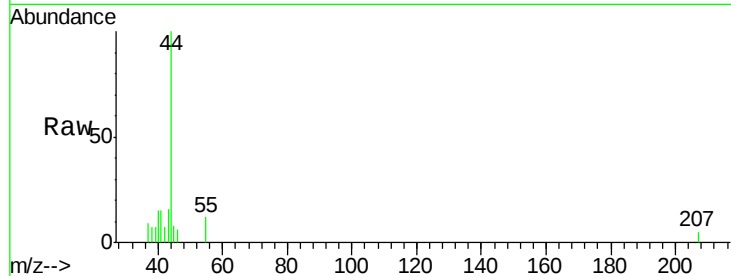
A0C12-SS2-3.5-4.0

Tot Ion: 43 Resp: 1448

Ion Ratio Lower Upper

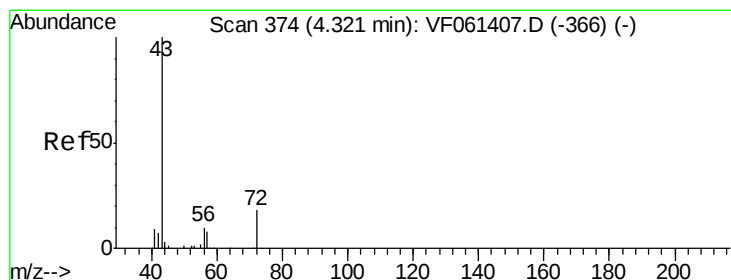
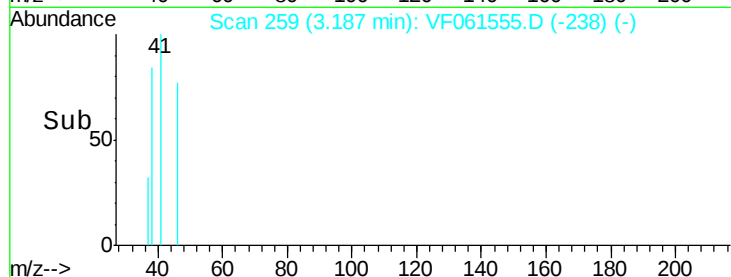
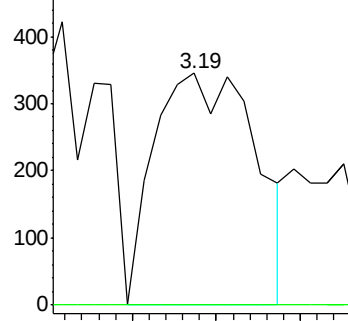
43 100

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



#25

2-Butanone

Concen: 1.606 ug/l

RT: 4.34 min Scan# 376

Delta R.T. 0.02 min

Lab File: VF061555.D

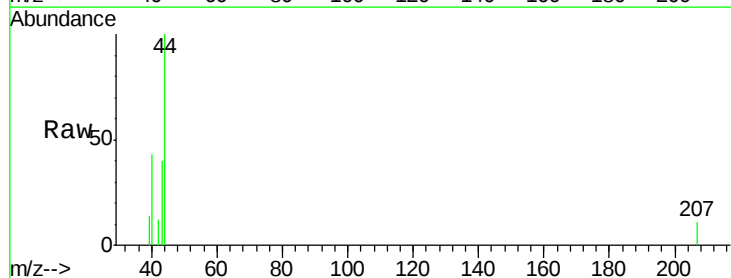
Acq: 7 Feb 2019 20:06

Tgt Ion: 43 Resp: 1310

Ion Ratio Lower Upper

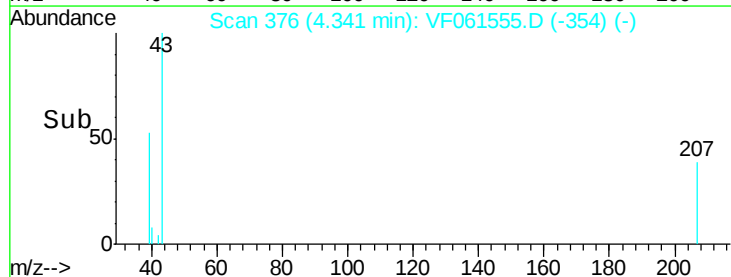
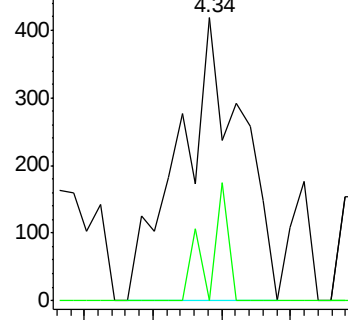
43 100

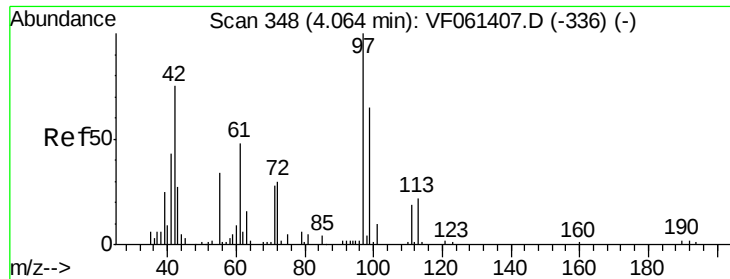
72 0.0 15.8 23.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0





#29

Tetrahydrofuran

Concen: 2.993 ug/l

RT: 4.07 min Scan# 349

Delta R.T. 0.01 min

Lab File: VF061555.D

Acq: 7 Feb 2019 20:06

Instrument :

MSVOA_F

ClientSampleId :

A0C12-SS2-3.5-4.0

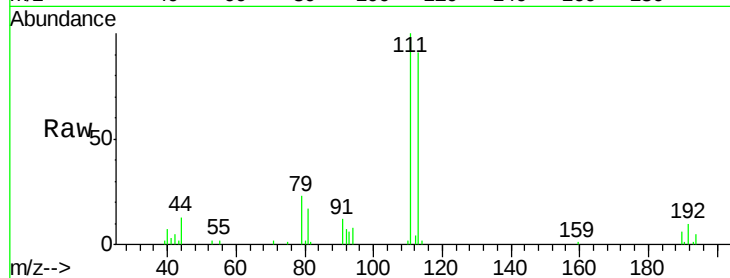
Tot Ion: 42 Resp: 1051

Ion Ratio Lower Upper

42 100

72 0.0 28.9 43.3#

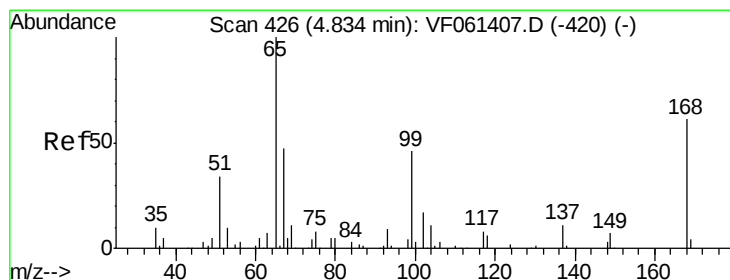
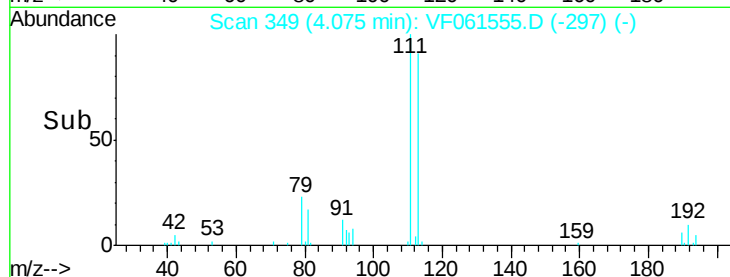
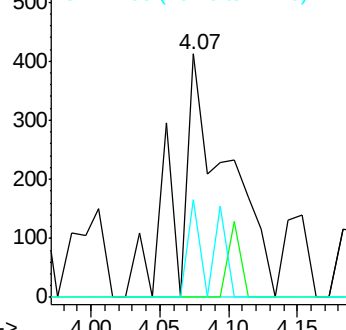
71 18.1 29.6 44.4#



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: 49.240 ug/l

RT: 4.84 min Scan# 427

Delta R.T. 0.01 min

Lab File: VF061555.D

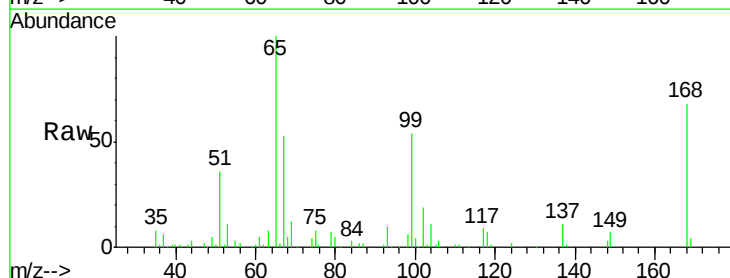
Acq: 7 Feb 2019 20:06

Tgt Ion: 65 Resp: 120357

Ion Ratio Lower Upper

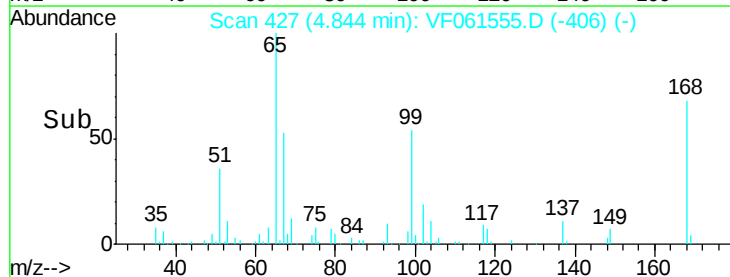
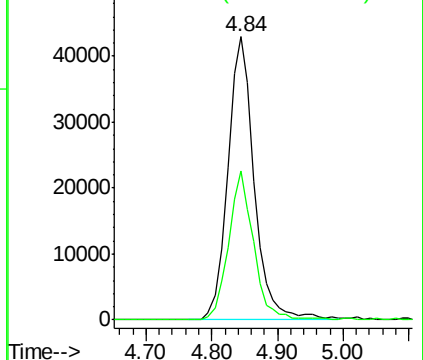
65 100

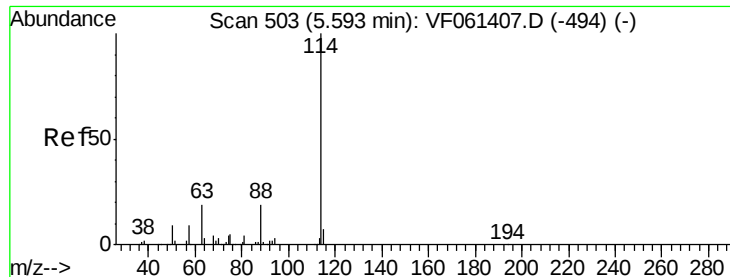
67 52.5 0.0 99.8



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: VF061555.D

Acq: 7 Feb 2019 20:06

Instrument :

MSVOA_F

ClientSampleId :

A0C12-SS2-3.5-4.0

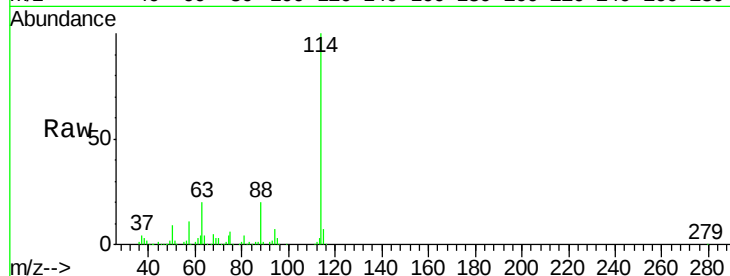
Tot Ion:114 Resp: 341035

Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.0

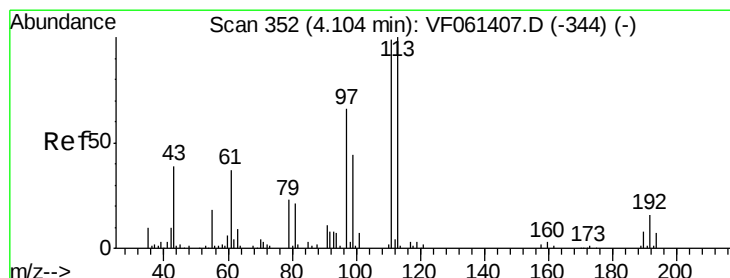
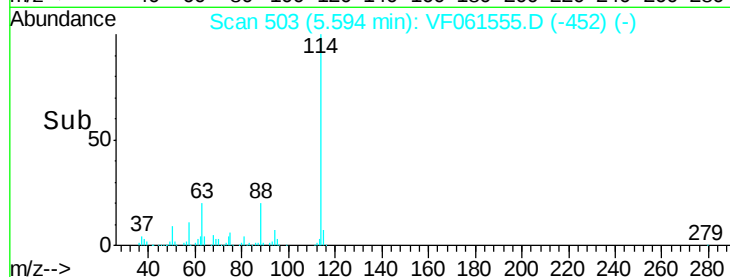
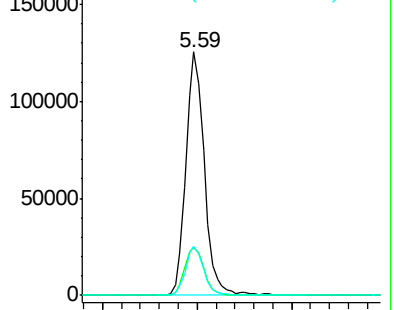
88 20.1 0.0 37.4



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: 51.194 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.01 min

Lab File: VF061555.D

Acq: 7 Feb 2019 20:06

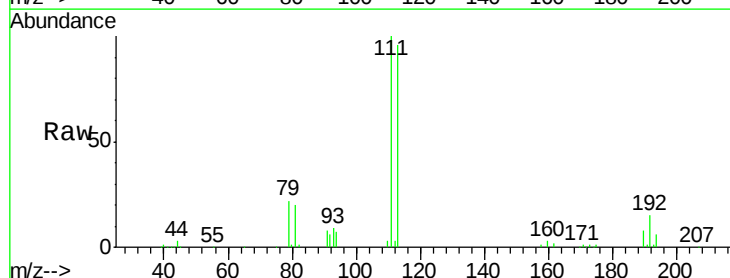
Tgt Ion:113 Resp: 137767

Ion Ratio Lower Upper

113 100

111 104.3 79.4 119.0

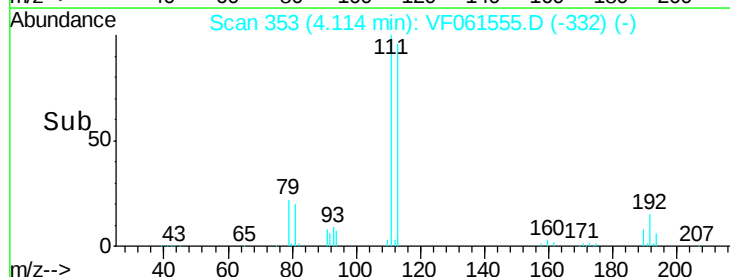
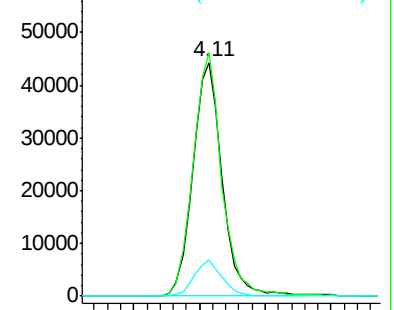
192 15.5 12.4 18.6

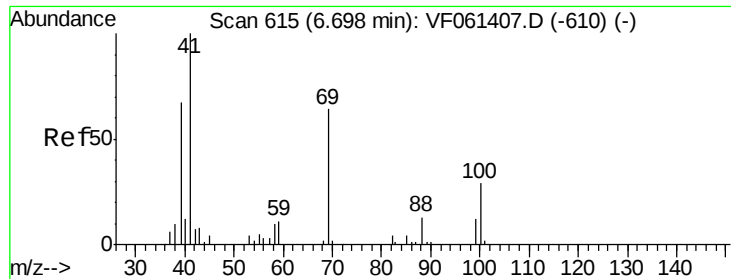


Abundance Ion 113.00 (112.70 to 113.70): V

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: 6.37 min Scan# 582

Delta R.T. -0.33 min

Lab File: VF061555.D

Acq: 7 Feb 2019 20:06

Instrument :

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A0C12-SS2-3.5-4.0

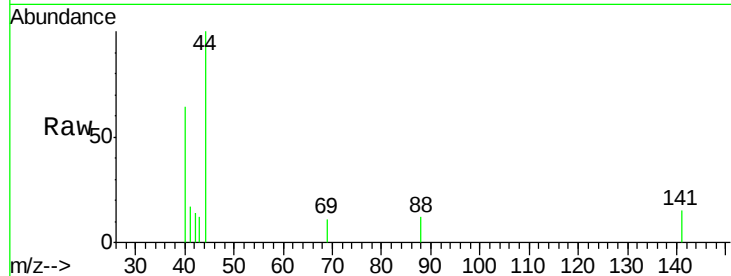
Tot Ion: 88 Resp: 67

Ion Ratio Lower Upper

88 100

43 105.3 55.5 83.3#

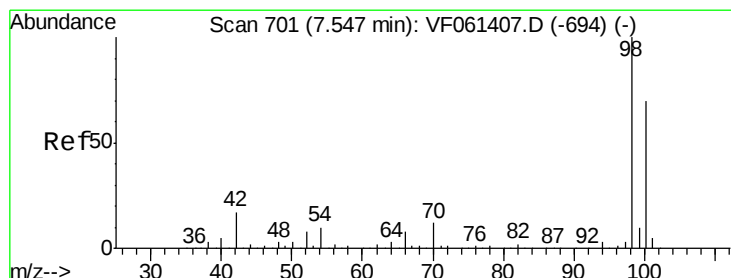
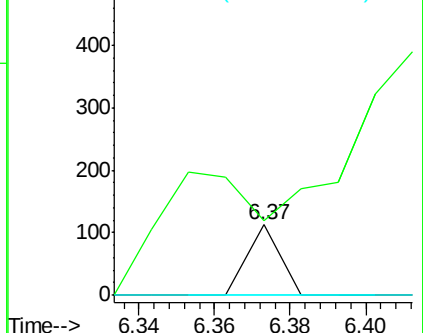
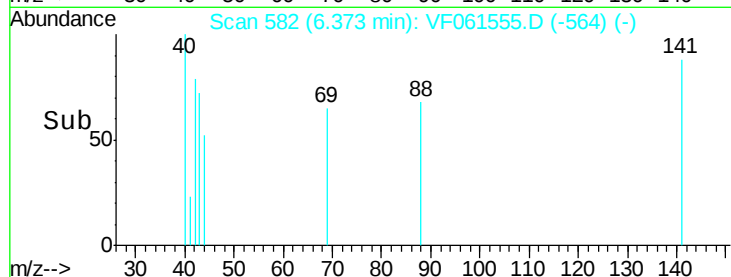
58 0.0 59.9 89.9#



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: 43.622 ug/l

RT: 7.55 min Scan# 701

Delta R.T. 0.00 min

Lab File: VF061555.D

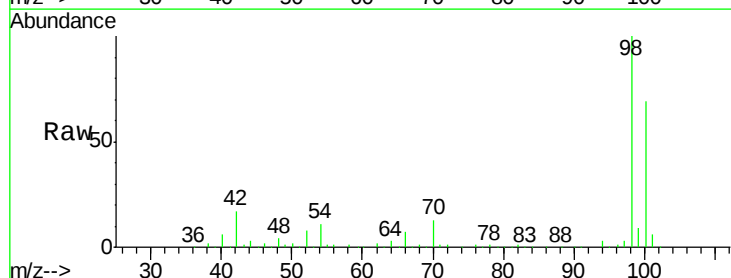
Acq: 7 Feb 2019 20:06

Tgt Ion: 98 Resp: 321625

Ion Ratio Lower Upper

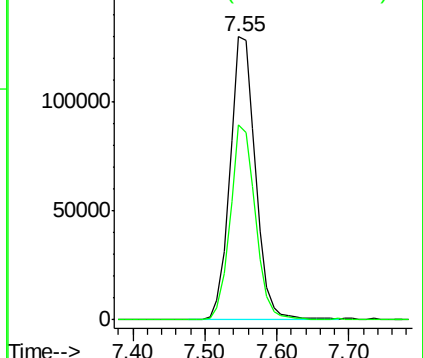
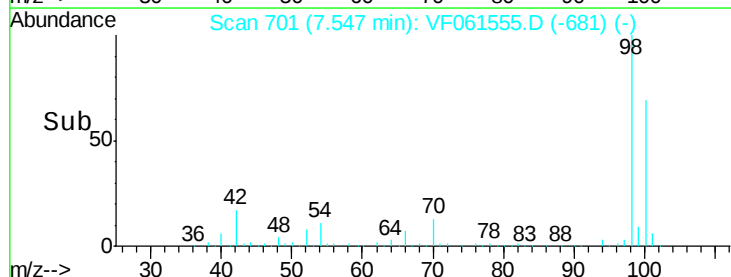
98 100

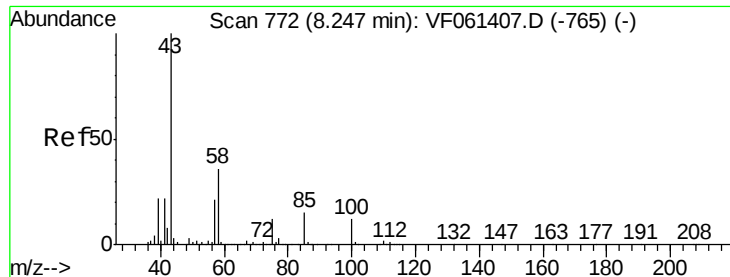
100 68.9 55.6 83.4



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 1.006 ug/l

RT: 8.26 min Scan# 773

Delta R.T. 0.01 min

Lab File: VF061555.D

Acq: 7 Feb 2019 20:06

Instrument :

MSVOA_F

ClientSampleId :

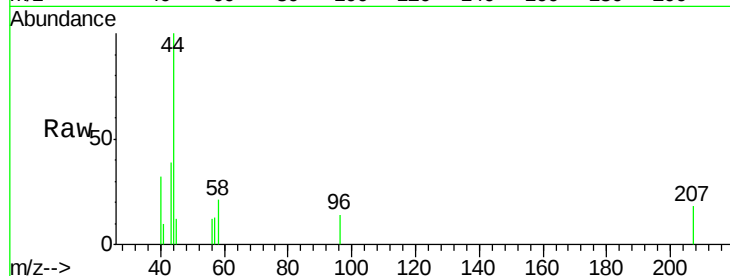
A0C12-SS2-3.5-4.0

Tot Ion: 43 Resp: 1467

Ion Ratio Lower Upper

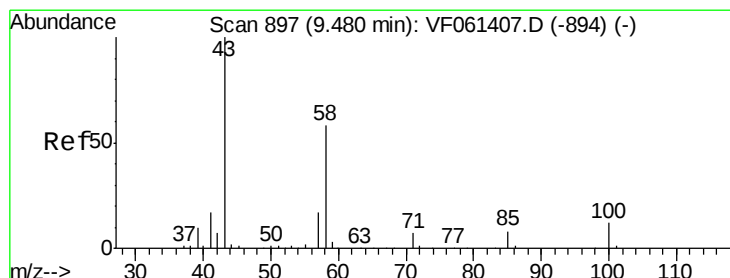
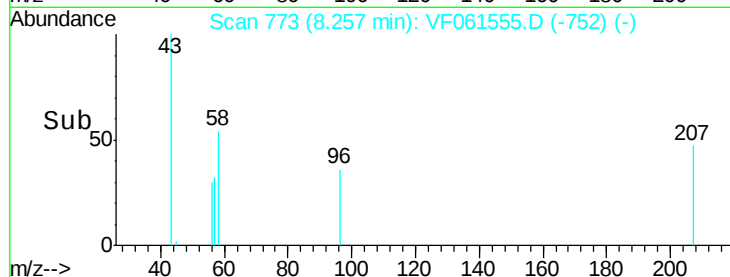
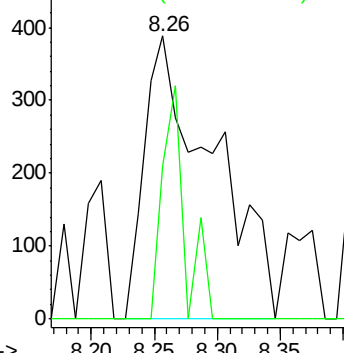
43 100

58 53.9 28.8 43.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#59

2-Hexanone

Concen: 1.821 ug/l

RT: 9.49 min Scan# 898

Delta R.T. 0.01 min

Lab File: VF061555.D

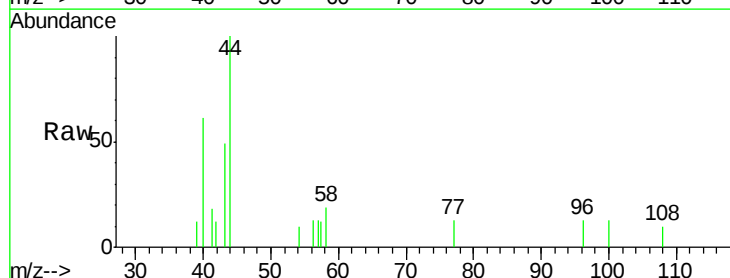
Acq: 7 Feb 2019 20:06

Tgt Ion: 43 Resp: 1852

Ion Ratio Lower Upper

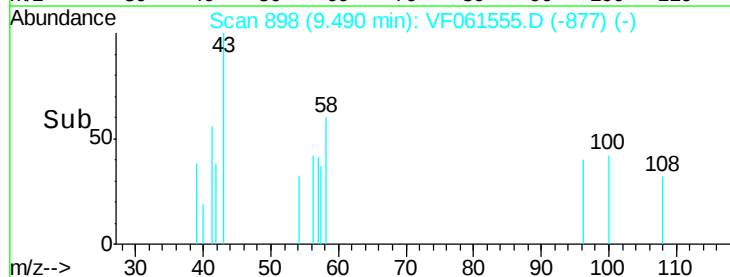
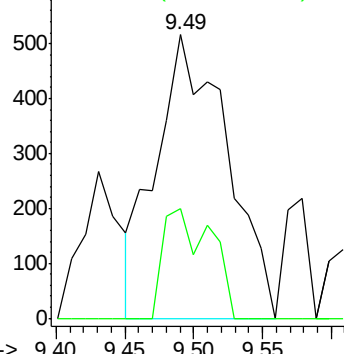
43 100

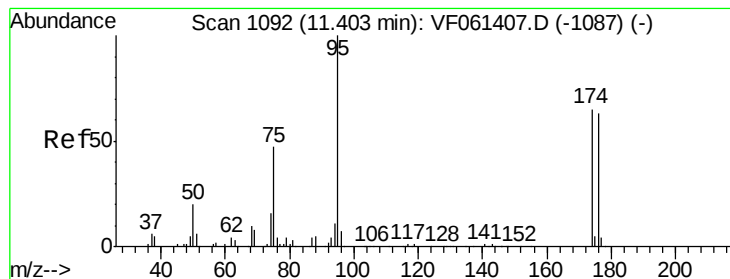
58 38.6 25.9 77.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 42.737 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. 0.00 min

Lab File: VF061555.D

Acq: 7 Feb 2019 20:06

Instrument :

MSVOA_F

ClientSampleId :

A0C12-SS2-3.5-4.0

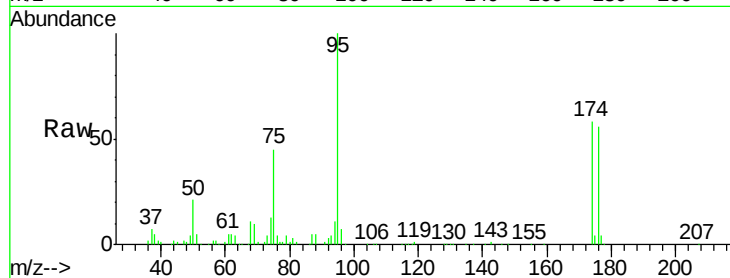
Tot Ion: 95 Resp: 147225

Ion Ratio Lower Upper

95 100

174 57.9 0.0 130.4

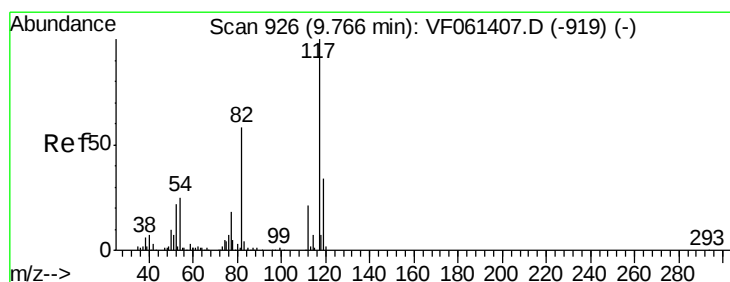
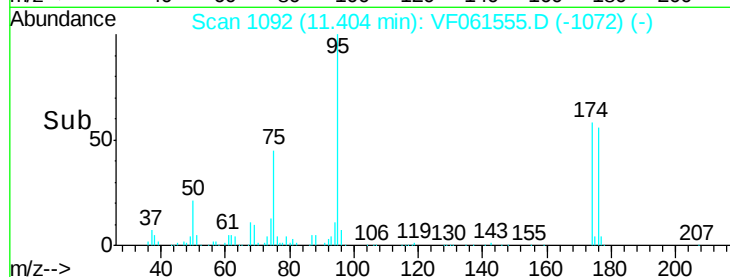
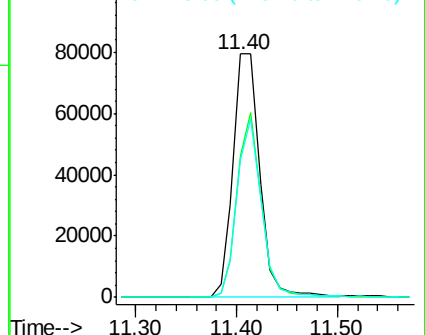
176 56.4 0.0 126.2



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.78 min Scan# 927

Delta R.T. 0.01 min

Lab File: VF061555.D

Acq: 7 Feb 2019 20:06

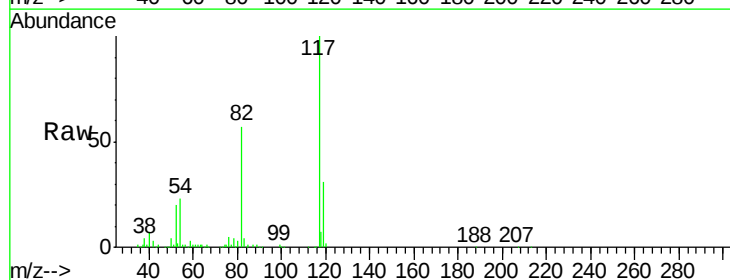
Tgt Ion: 117 Resp: 307203

Ion Ratio Lower Upper

117 100

82 56.6 46.4 69.6

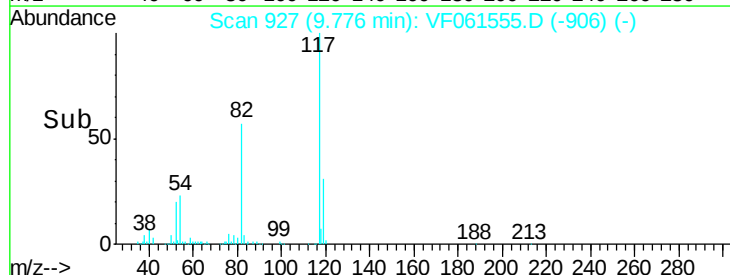
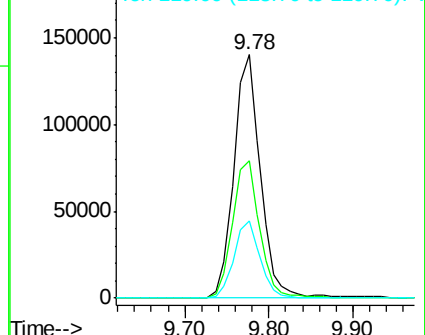
119 31.5 27.2 40.8

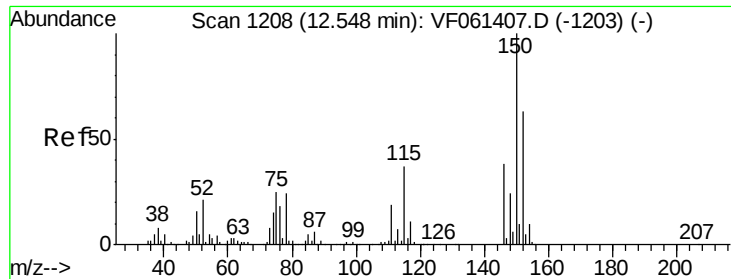


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1208

Delta R.T. 0.00 min

Lab File: VF061555.D

Acq: 7 Feb 2019 20:06

Instrument :

MSVOA_F

ClientSampleId :

A0C12-SS2-3.5-4.0

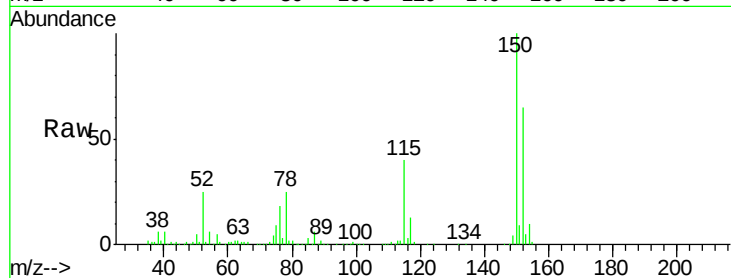
Tot Ion:152 Resp: 148857

Ion Ratio Lower Upper

152 100

115 60.7 30.0 90.0

150 153.4 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

