

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF021219\
 Data File : VF061619.D
 Acq On : 12 Feb 2019 20:05
 Operator : VA/AP
 Sample : K1343-25
 Misc : 5.67g/5mL/MSVOA-F/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 JC-02-021119-M

Quant Time: Feb 13 02:51:32 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	4.87	168	205868	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.60	114	376341	50.00	ug/l	0.01
63) Chlorobenzene-d5	9.78	117	312998	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.56	152	141864	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.85	65	132363	52.08	ug/l	0.02
Spiked Amount 50.000			Recovery =	104.16%		
35) Dibromofluoromethane	4.11	113	139206	46.88	ug/l	0.01
Spiked Amount 50.000			Recovery =	93.76%		
50) Toluene-d8	7.56	98	328614	40.39	ug/l	0.01
Spiked Amount 50.000			Recovery =	80.78%		
62) 4-Bromofluorobenzene	11.41	95	140077	36.85	ug/l	0.01
Spiked Amount 50.000			Recovery =	73.70%		

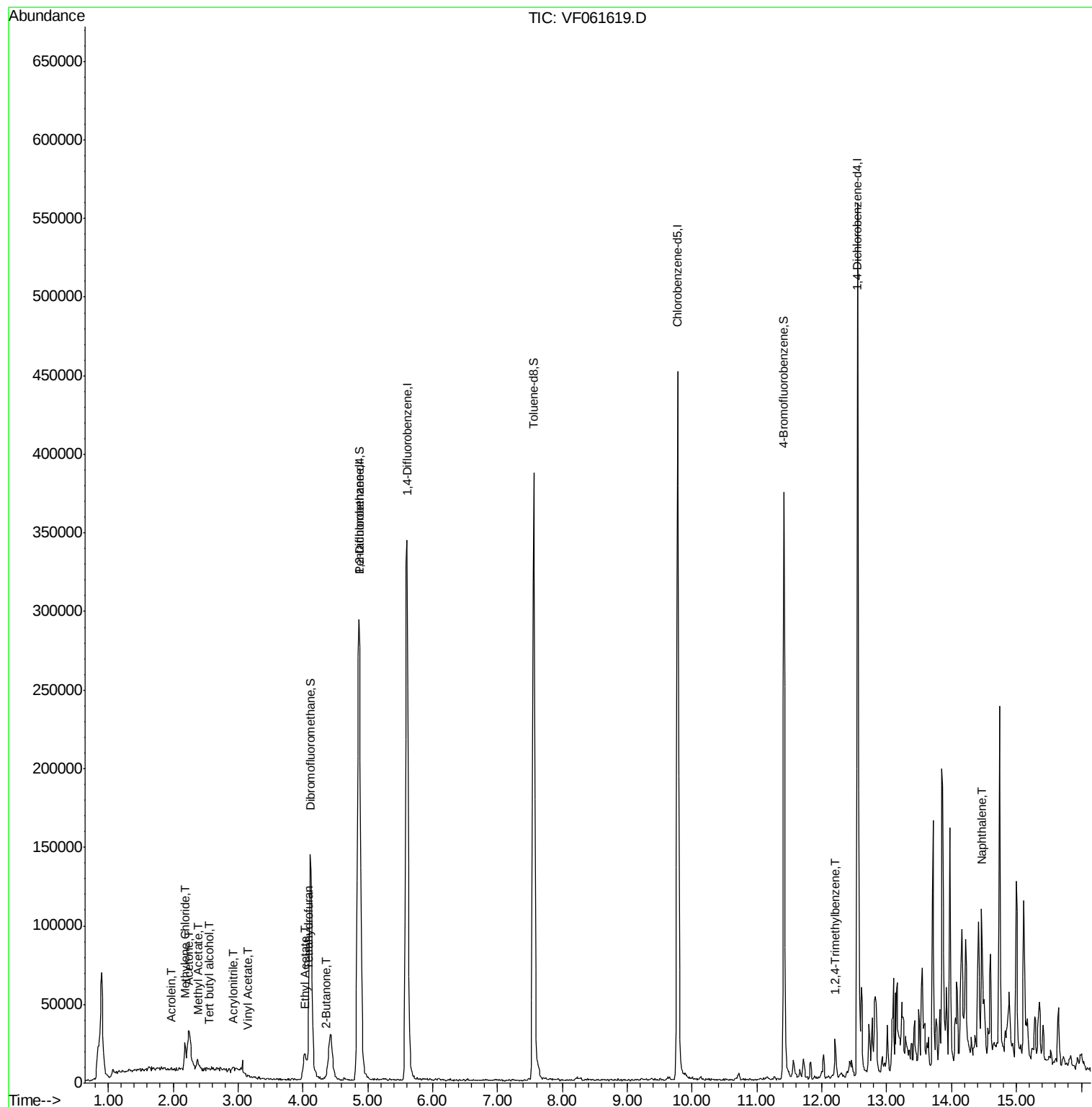
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.57	59	194	1.803	ug/l #	1
13) Acrolein	1.98	56	145	11.837	ug/l #	1
14) Allyl chloride	2.08	41	183	Below Cal	#	77
15) Acrylonitrile	2.94	53	370	1.343	ug/l #	27
16) Acetone	2.24	43	17252	33.834	ug/l	93
18) Methyl Acetate	2.37	43	5674	5.611	ug/l #	61
20) Methylene Chloride	2.18	84	6920	2.322	ug/l	93
23) Vinyl Acetate	3.16	43	387	3.327	ug/l #	78
25) 2-Butanone	4.35	43	2052	2.420	ug/l	94
29) Tetrahydrofuran	4.08	42	1287	3.525	ug/l #	43
37) Ethyl Acetate	4.02	43	2145	1.230	ug/l #	52
49) 1,4-Dioxane	6.84	88	85	Below Cal	#	13
84) 1,2,4-Trimethylbenzene	12.20	105	9658	1.007	ug/l	90
95) Naphthalene	14.46	128	11488	1.894	ug/l #	63

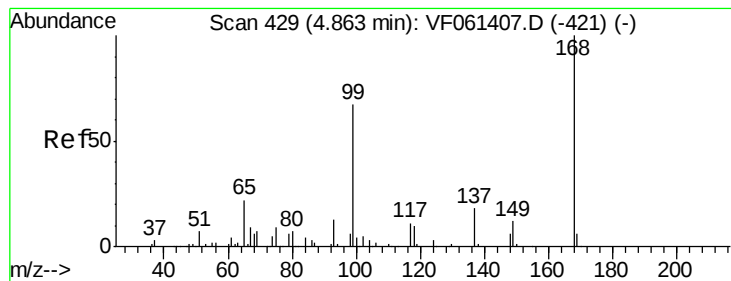
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. 0.01 min

Lab File: VF061619.D

Acq: 12 Feb 2019 20:05

Instrument :

MSVOA_F

ClientSampleId :

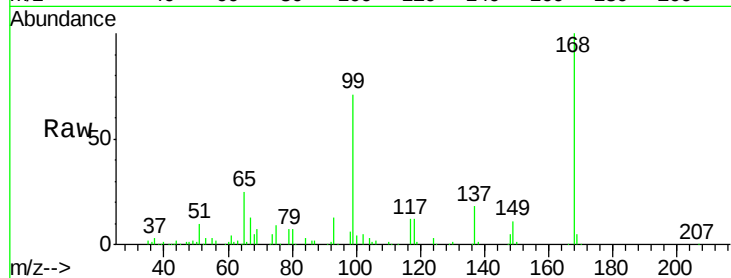
JC-02-021119-M

Tot Ion:168 Resp: 205868

Ion Ratio Lower Upper

168 100

99 71.0 53.5 80.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

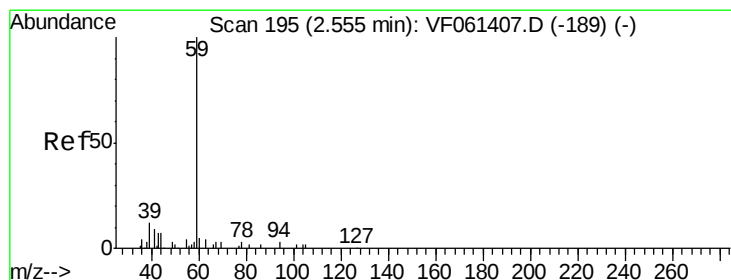
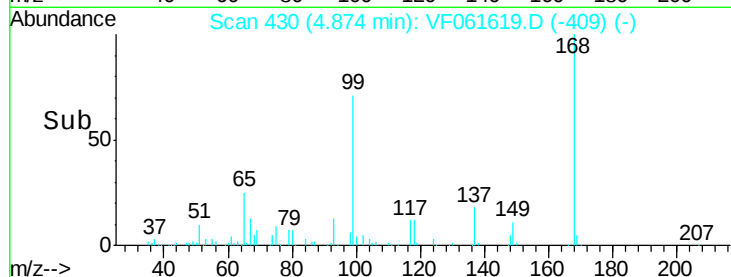
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#11

Tert butyl alcohol

Concen: 1.803 ug/l

RT: 2.57 min Scan# 196

Delta R.T. 0.01 min

Lab File: VF061619.D

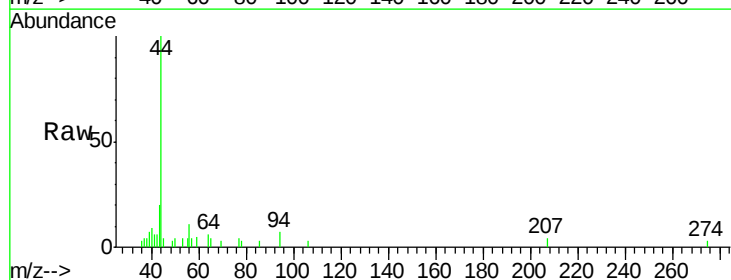
Acq: 12 Feb 2019 20:05

Tgt Ion: 59 Resp: 194

Ion Ratio Lower Upper

59 100

57 78.8 11.9 17.9#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

300

250

200

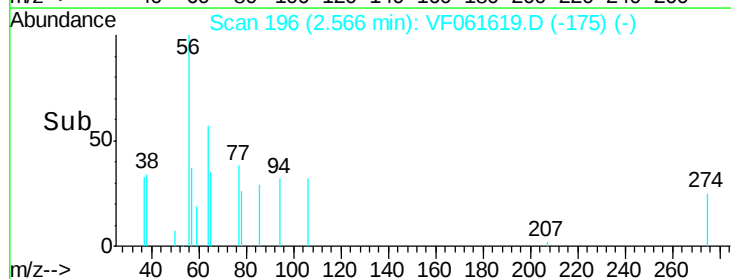
150

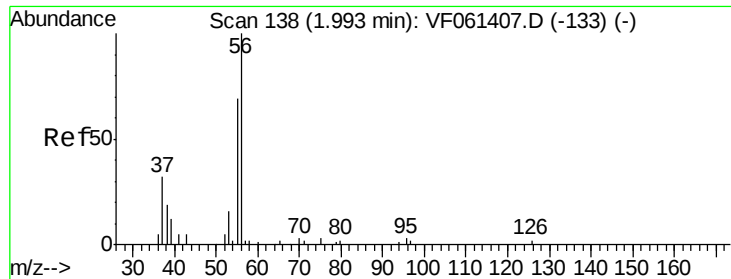
100

50

0

Time--> 2.52 2.54 2.56 2.58





#13

Acrolein

Concen: 11.837 ug/l

RT: 1.98 min Scan# 137

Delta R.T. -0.01 min

Lab File: VF061619.D

Acq: 12 Feb 2019 20:05

Instrument :

MSVOA_F

ClientSampleId :

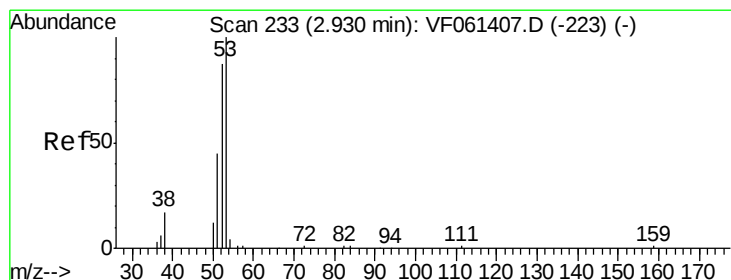
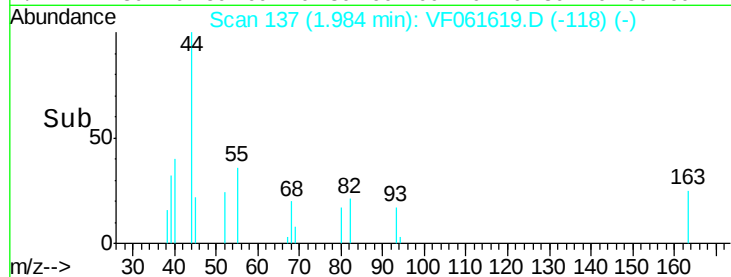
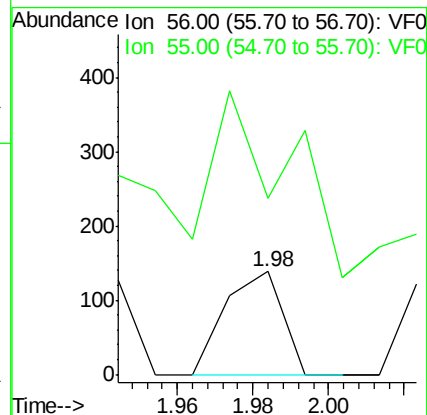
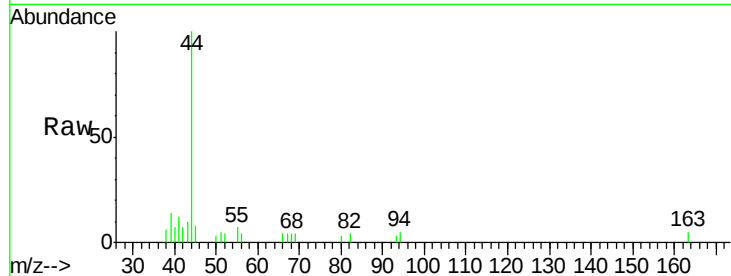
JC-02-021119-M

Tot Ion: 56 Resp: 145

Ion Ratio Lower Upper

56 100

55 171.2 57.5 86.3#



#15

Acrylonitrile

Concen: 1.343 ug/l

RT: 2.94 min Scan# 234

Delta R.T. 0.01 min

Lab File: VF061619.D

Acq: 12 Feb 2019 20:05

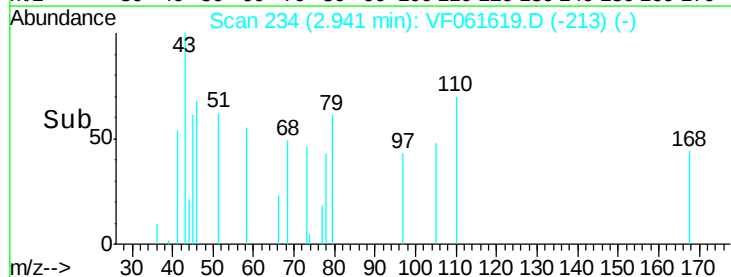
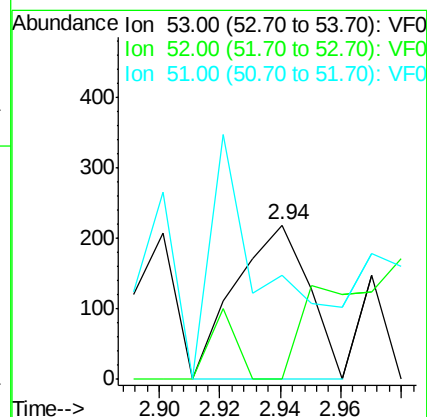
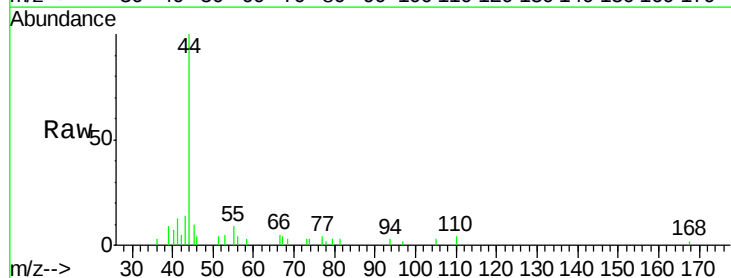
Tgt Ion: 53 Resp: 370

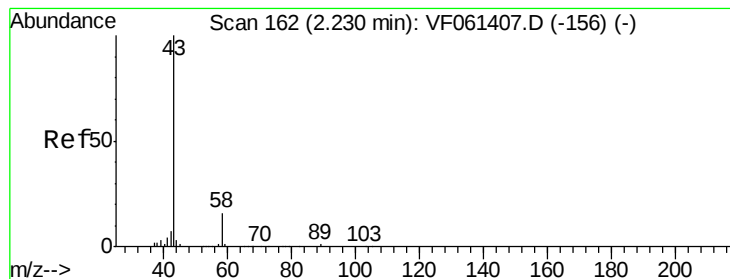
Ion Ratio Lower Upper

53 100

52 0.0 69.6 104.4#

51 67.0 36.8 55.2#





#16

Acetone

Concen: 33.834 ug/l

RT: 2.24 min Scan# 163

Delta R.T. 0.01 min

Lab File: VF061619.D

Acq: 12 Feb 2019 20:05

Instrument :

MSVOA_F

ClientSampleId :

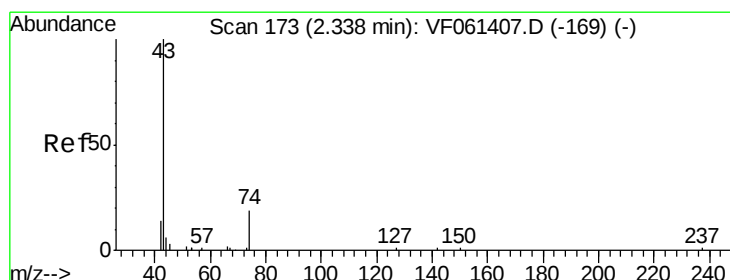
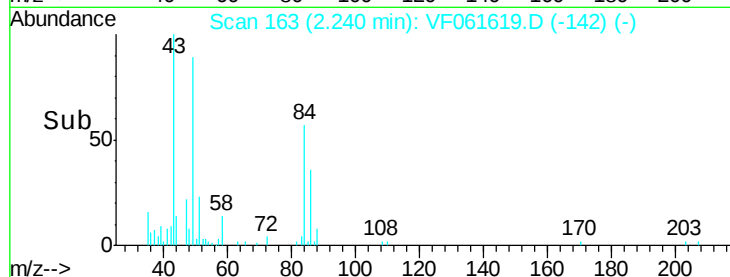
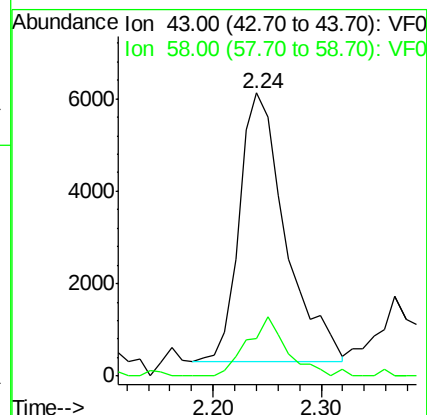
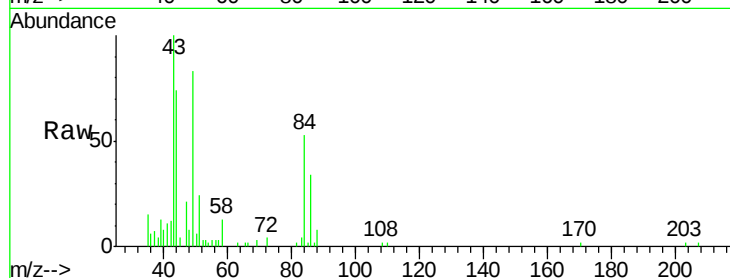
JC-02-021119-M

Tot Ion: 43 Resp: 17252

Ion Ratio Lower Upper

43 100

58 13.4 13.3 19.9



#18

Methyl Acetate

Concen: 5.611 ug/l

RT: 2.37 min Scan# 176

Delta R.T. 0.03 min

Lab File: VF061619.D

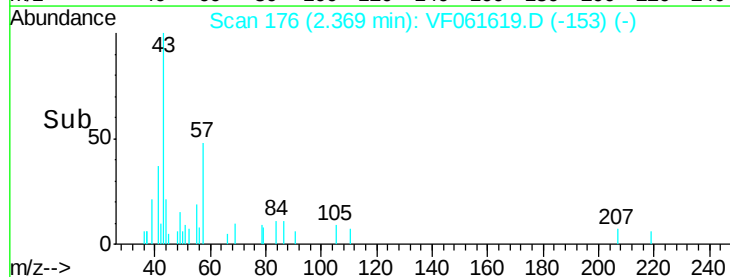
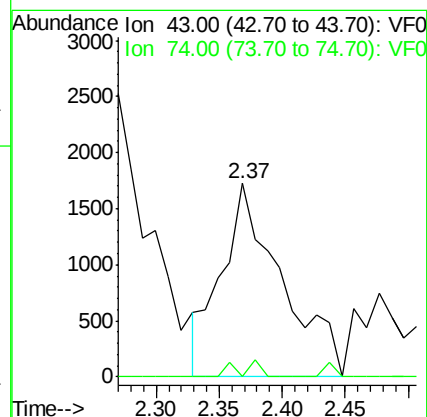
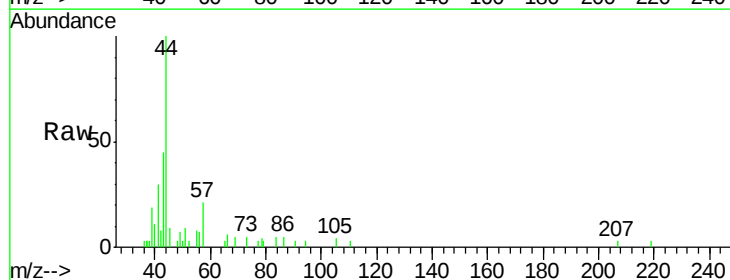
Acq: 12 Feb 2019 20:05

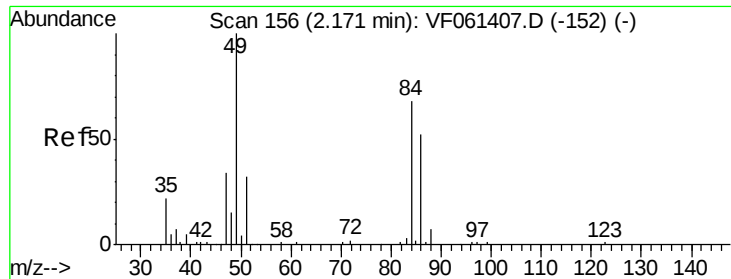
Tgt Ion: 43 Resp: 5674

Ion Ratio Lower Upper

43 100

74 0.0 13.4 20.0#

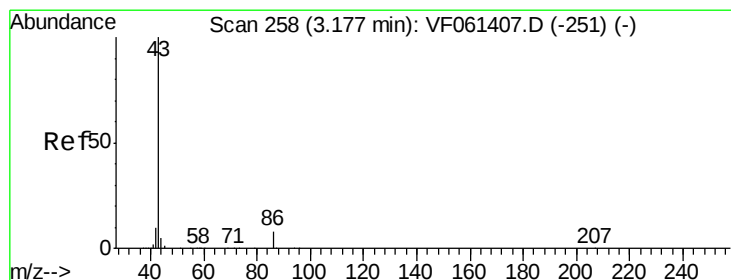
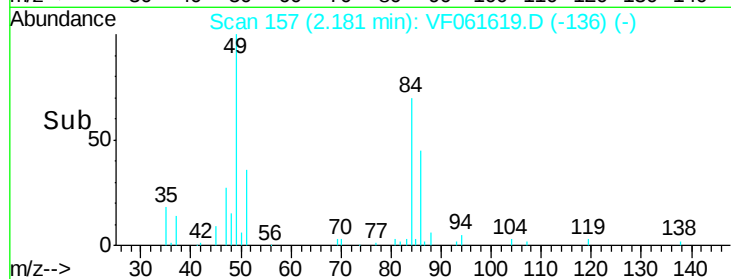
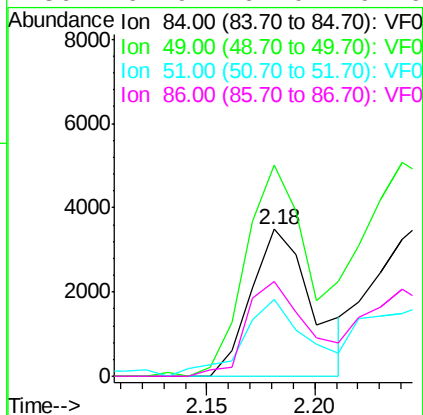
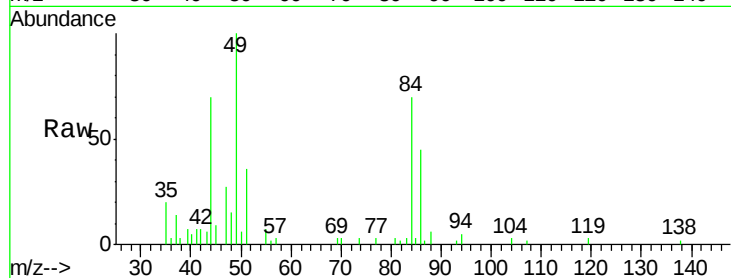




#20
Methvlene Chloride
Concen: 2.322 ug/l
RT: 2.18 min Scan# 157
Delta R.T. 0.01 min
Lab File: VF061619.D
Acq: 12 Feb 2019 20:05

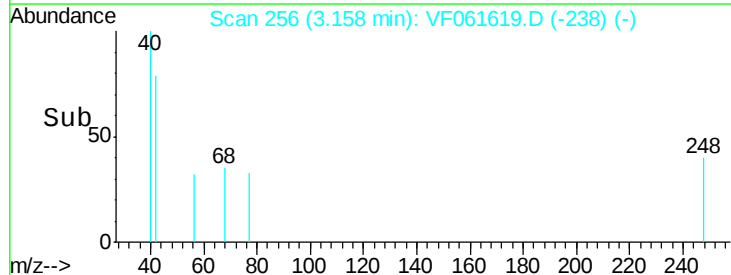
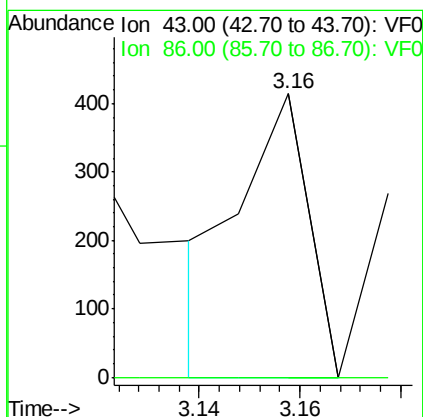
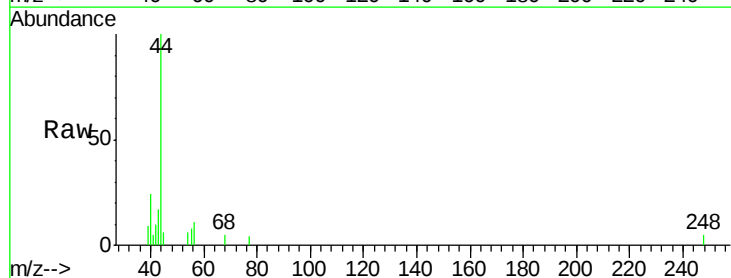
Instrument :
MSVOA_F
ClientSampleId :
JC-02-021119-M

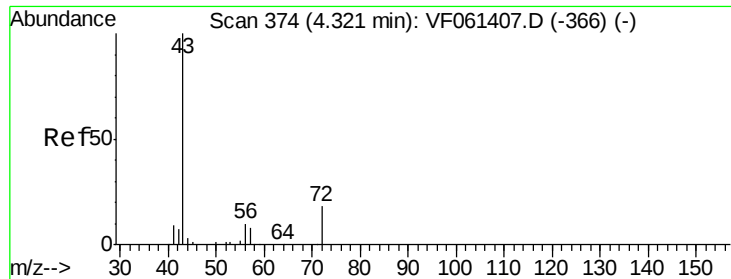
Tot Ion: 84 Resp: 6920
Ion Ratio Lower Upper
84 100
49 143.7 120.0 180.0
51 52.2 38.6 58.0
86 64.9 61.0 91.6



#23
Vinyl Acetate
Concen: 3.327 ug/l
RT: 3.16 min Scan# 256
Delta R.T. -0.02 min
Lab File: VF061619.D
Acq: 12 Feb 2019 20:05

Tgt Ion: 43 Resp: 387
Ion Ratio Lower Upper
43 100
86 0.0 6.2 9.4#





#25

2-Butanone

Concen: 2.420 ug/l

RT: 4.35 min Scan# 377

Delta R.T. 0.03 min

Lab File: VF061619.D

Acq: 12 Feb 2019 20:05

Instrument :

MSVOA_F

ClientSampleId :

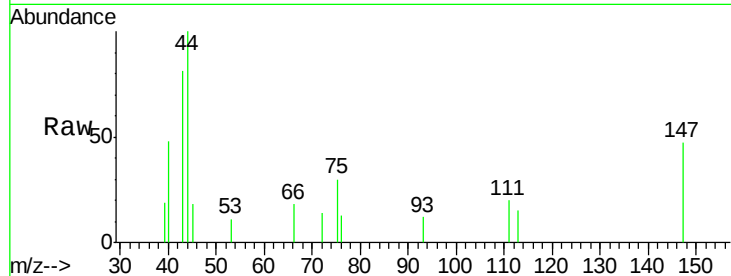
JC-02-021119-M

Tot Ion: 43 Resp: 2052

Ion Ratio Lower Upper

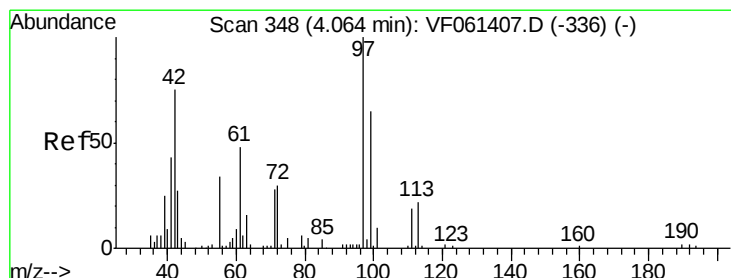
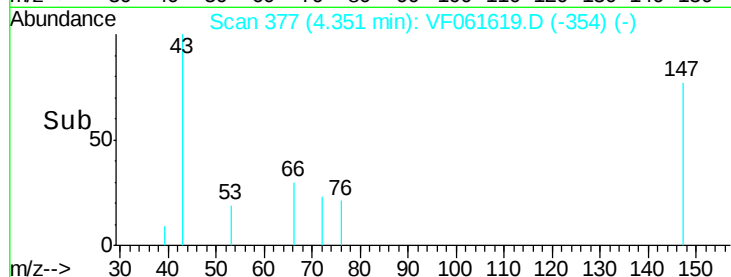
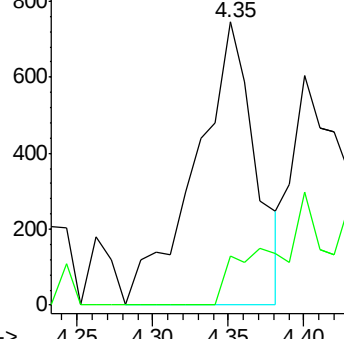
43 100

72 17.2 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: 3.525 ug/l

RT: 4.08 min Scan# 349

Delta R.T. 0.01 min

Lab File: VF061619.D

Acq: 12 Feb 2019 20:05

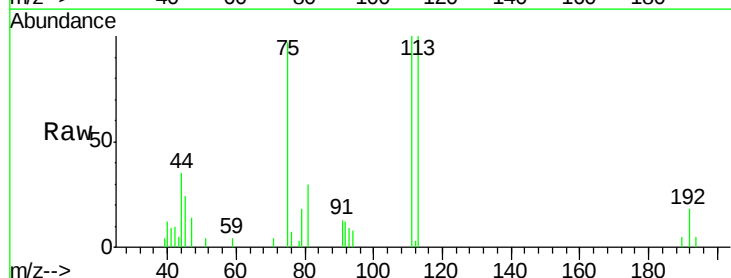
Tgt Ion: 42 Resp: 1287

Ion Ratio Lower Upper

42 100

72 0.0 28.9 43.3#

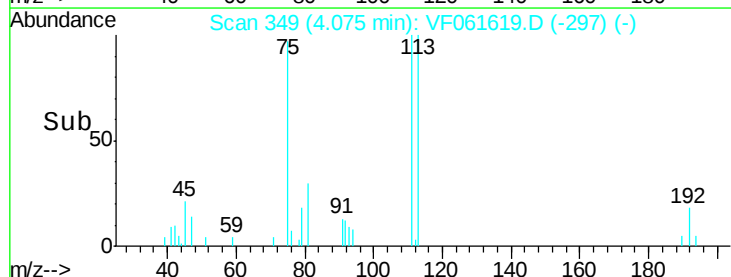
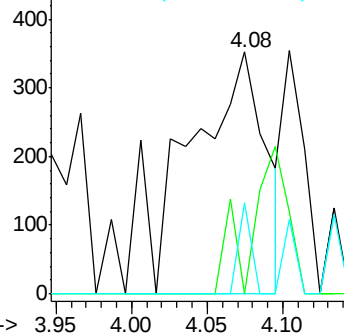
71 6.1 29.6 44.4#

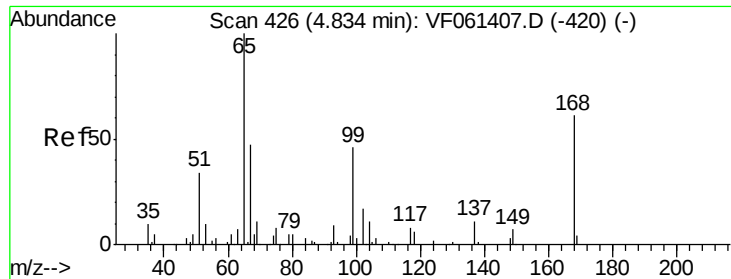


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 52.076 ug/l

RT: 4.85 min Scan# 428

Delta R.T. 0.02 min

Lab File: VF061619.D

Acq: 12 Feb 2019 20:05

Instrument :

MSVOA_F

ClientSampleId :

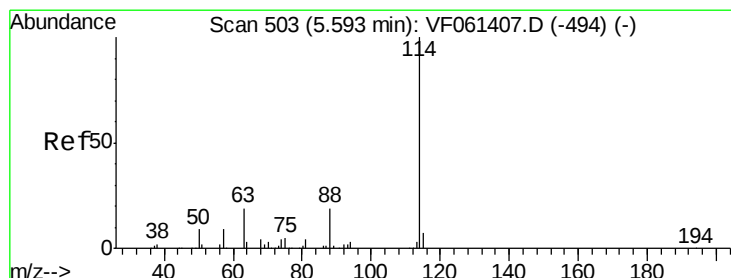
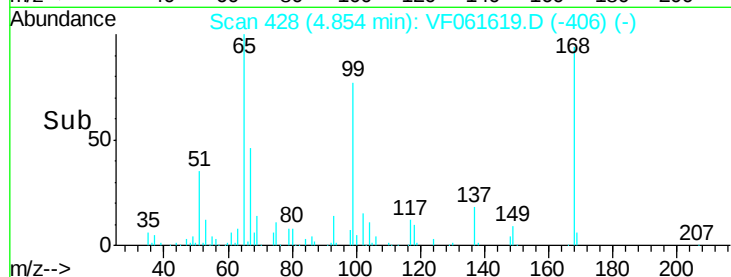
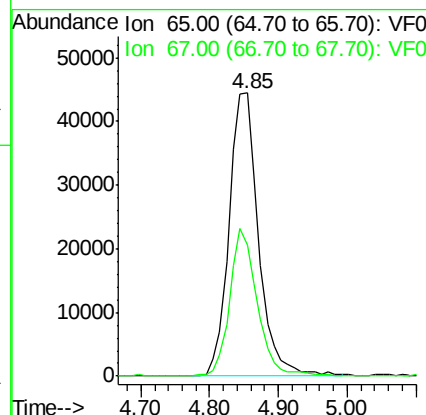
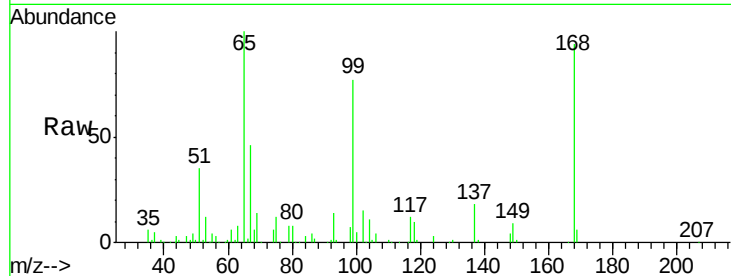
JC-02-021119-M

Tot Ion: 65 Resp: 132363

Ion Ratio Lower Upper

65 100

67 46.2 0.0 99.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. 0.01 min

Lab File: VF061619.D

Acq: 12 Feb 2019 20:05

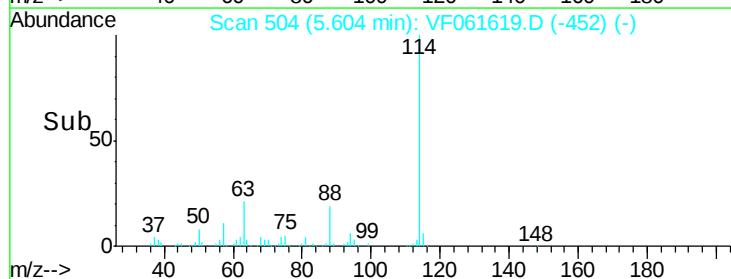
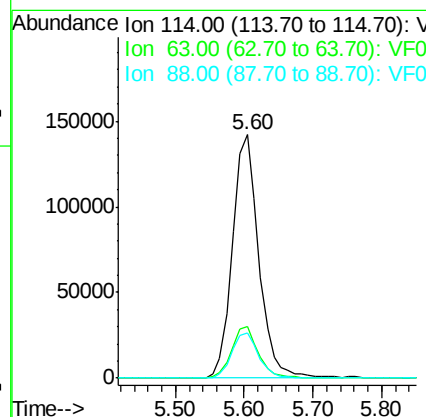
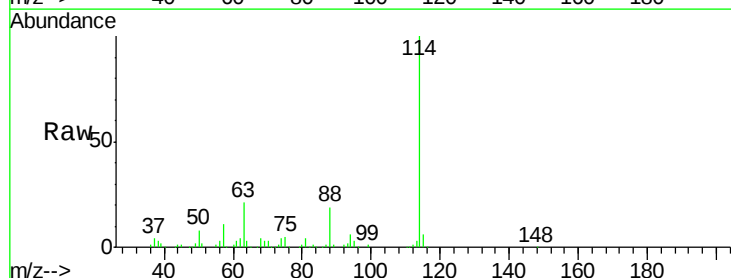
Tgt Ion: 114 Resp: 376341

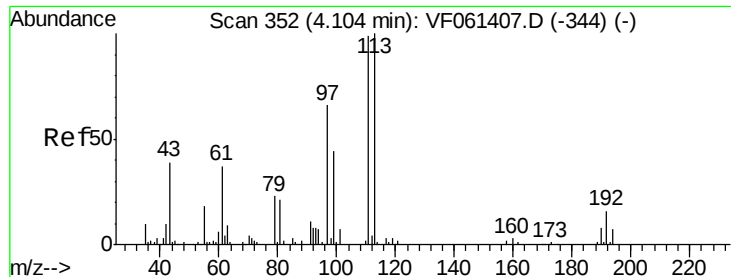
Ion Ratio Lower Upper

114 100

63 21.1 0.0 39.0

88 18.5 0.0 37.4





#35

Dibromofluoromethane

Concen: 46.876 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.01 min

Lab File: VF061619.D

Acq: 12 Feb 2019 20:05

Instrument :

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ClientSampleId :

JC-02-021119-M

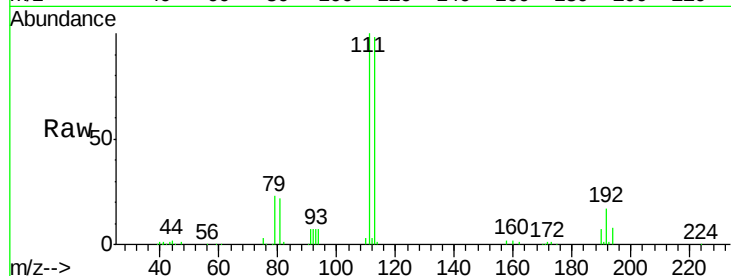
Tot Ion:113 Resp: 139206

Ion Ratio Lower Upper

113 100

111 102.0 79.4 119.0

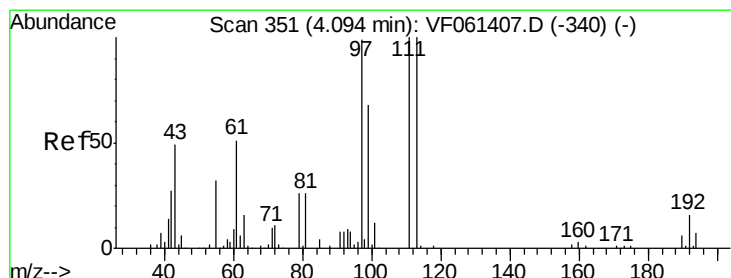
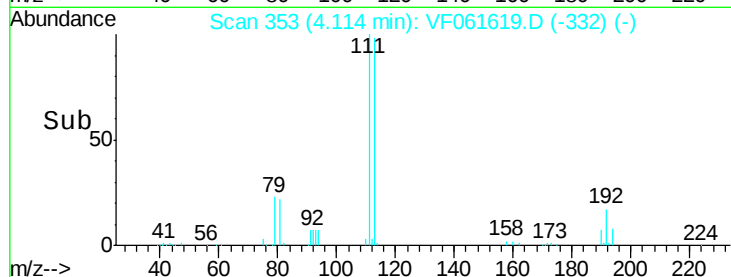
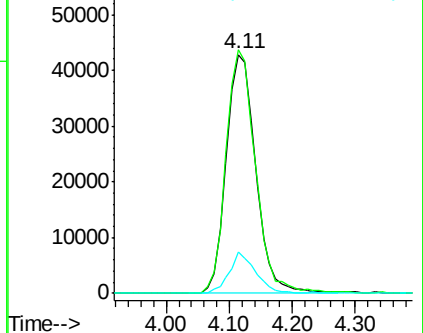
192 17.6 12.4 18.6



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



#37

Ethyl Acetate

Concen: 1.230 ug/l

RT: 4.02 min Scan# 343

Delta R.T. -0.08 min

Lab File: VF061619.D

Acq: 12 Feb 2019 20:05

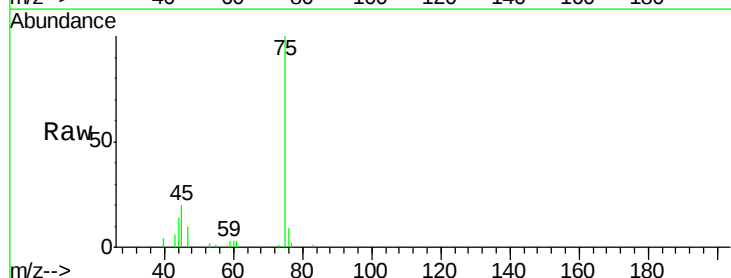
Tgt Ion: 43 Resp: 2145

Ion Ratio Lower Upper

43 100

61 51.8 81.7 122.5#

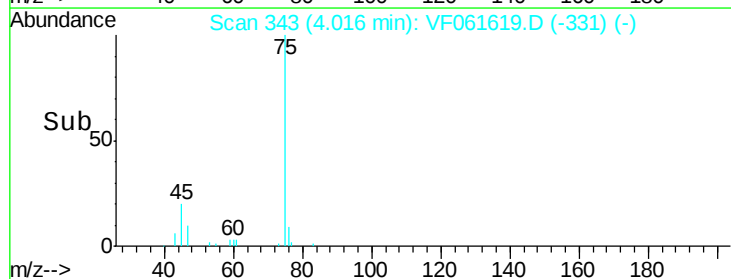
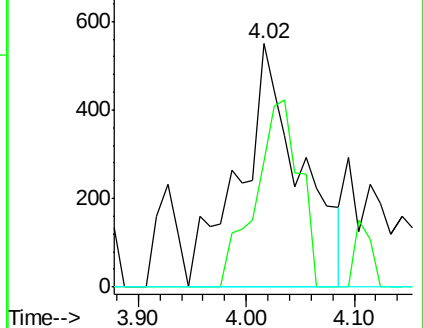
70 0.0 6.2 9.2#

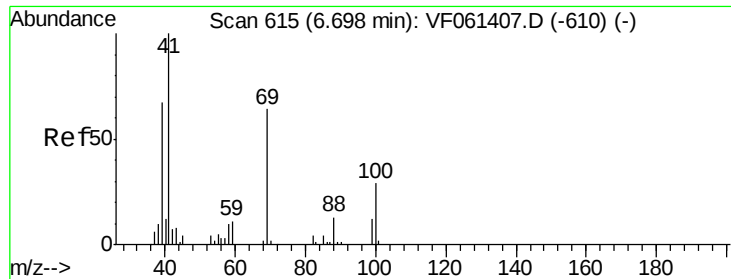


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0





#49

1,4-Dioxane

Concen: Below Cal

RT: 6.84 min Scan# 629

Delta R.T. 0.14 min

Lab File: VF061619.D

Acq: 12 Feb 2019 20:05

Instrument :

MSVOA_F

ClientSampleId :

JC-02-021119-M

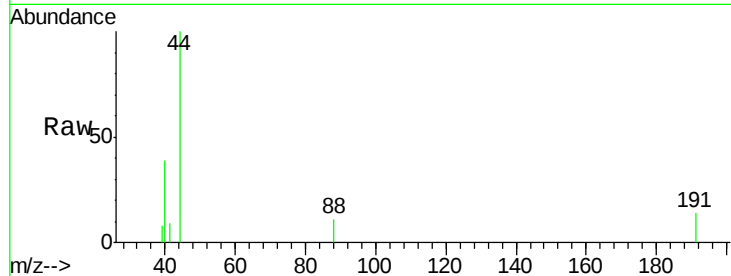
Tot Ion: 88 Resp: 85

Ion Ratio Lower Upper

88 100

43 0.0 55.5 83.3#

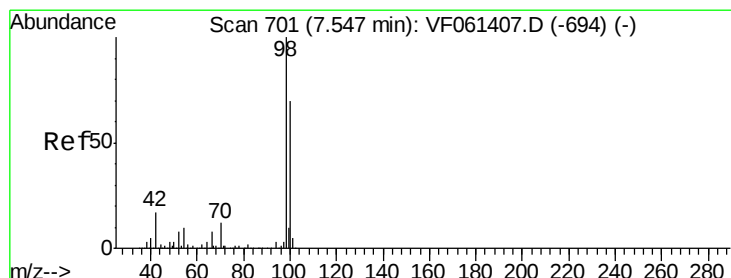
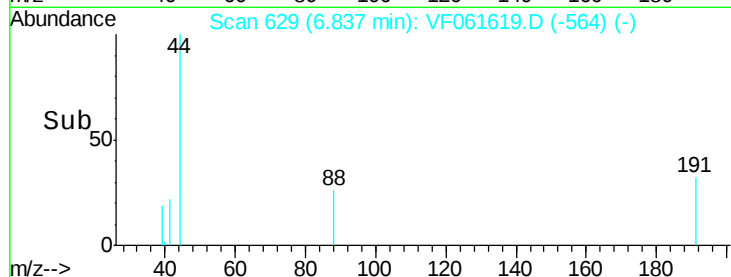
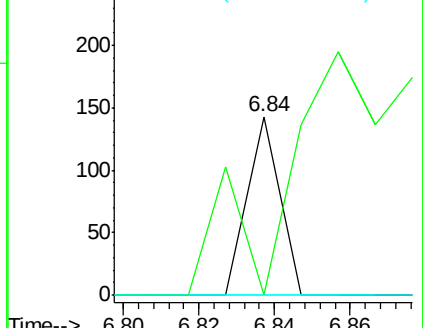
58 0.0 59.9 89.9#



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: 40.389 ug/l

RT: 7.56 min Scan# 702

Delta R.T. 0.01 min

Lab File: VF061619.D

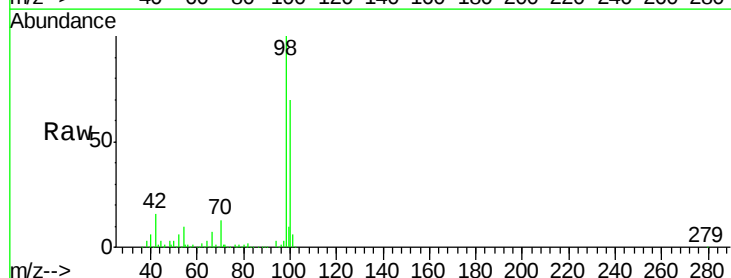
Acq: 12 Feb 2019 20:05

Tgt Ion: 98 Resp: 328614

Ion Ratio Lower Upper

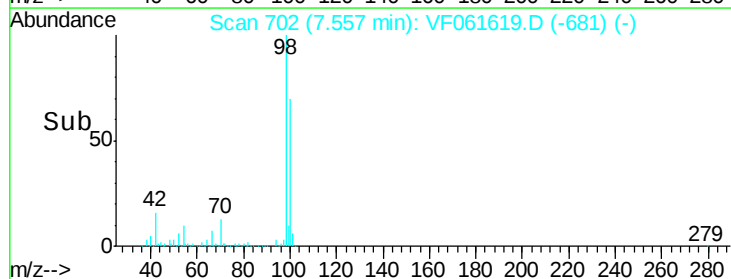
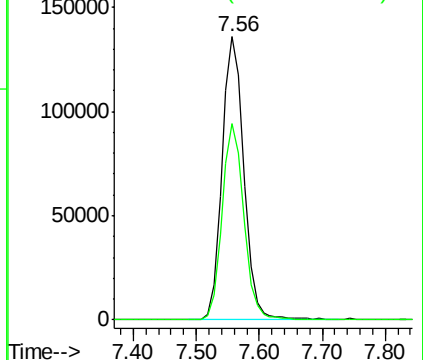
98 100

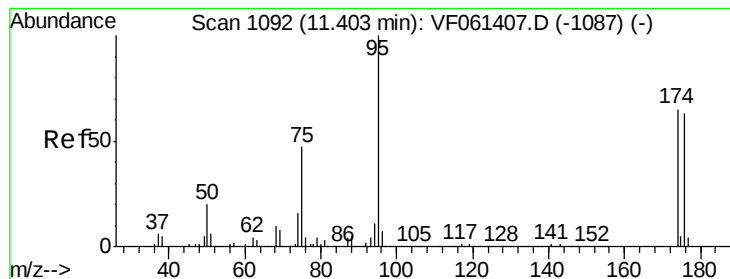
100 69.6 55.6 83.4



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#62

4-Bromofluorobenzene

Concen: 36.848 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. 0.01 min

Lab File: VF061619.D

Acq: 12 Feb 2019 20:05

Instrument :

MSVOA_F

ClientSampleId :

JC-02-021119-M

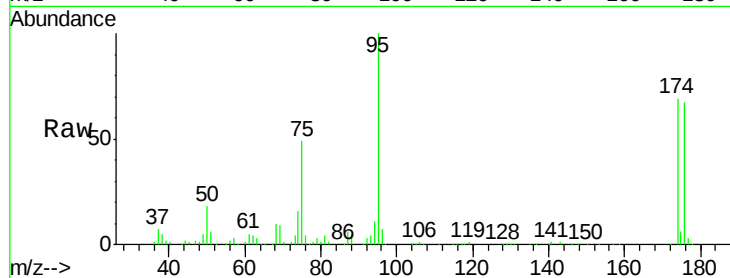
Tot Ion: 95 Resp: 140077

Ion Ratio Lower Upper

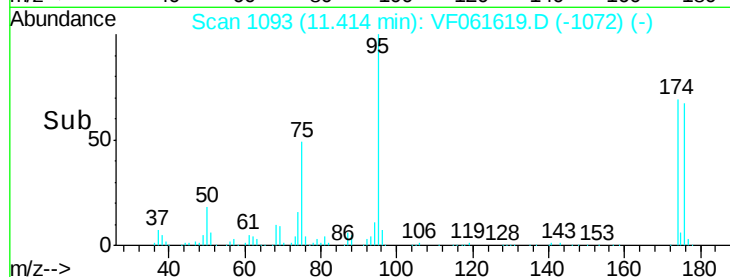
95 100

174 68.7 0.0 130.4

176 67.4 0.0 126.2



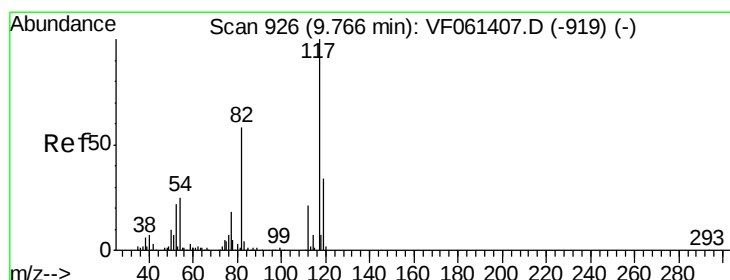
Abundance Ion 95.00 (94.70 to 95.70): VF061619.D (-1072) (-)



Ion 174.00 (173.70 to 174.70): VF061619.D (-1072) (-)

Ion 176.00 (175.70 to 176.70): VF061619.D (-1072) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.78 min Scan# 927

Delta R.T. 0.01 min

Lab File: VF061619.D

Acq: 12 Feb 2019 20:05

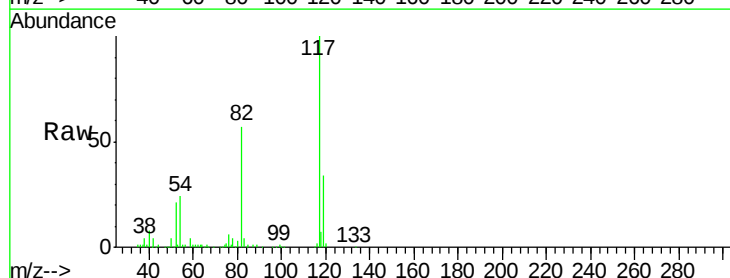
Tgt Ion: 117 Resp: 312998

Ion Ratio Lower Upper

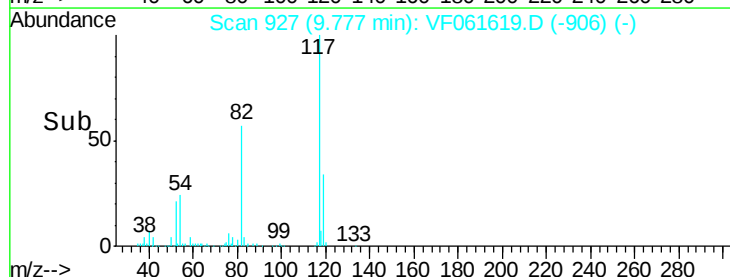
117 100

82 57.5 46.4 69.6

119 33.7 27.2 40.8



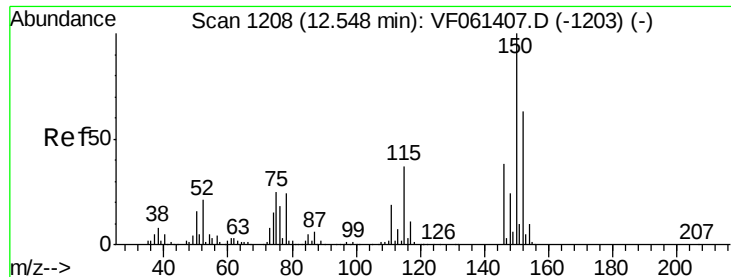
Abundance Ion 117.00 (116.70 to 117.70): VF061619.D (-906) (-)



Ion 82.00 (81.70 to 82.70): VF061619.D (-906) (-)

Ion 119.00 (118.70 to 119.70): VF061619.D (-906) (-)

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.56 min Scan# 1209

Delta R.T. 0.01 min

Lab File: VF061619.D

Acq: 12 Feb 2019 20:05

Instrument :

MSVOA_F

ClientSampleId :

JC-02-021119-M

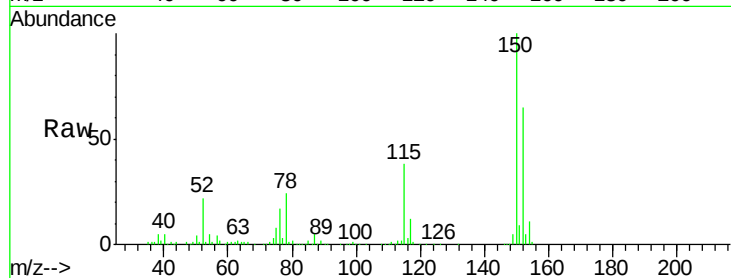
Tot Ion:152 Resp: 141864

Ion Ratio Lower Upper

152 100

115 59.1 30.0 90.0

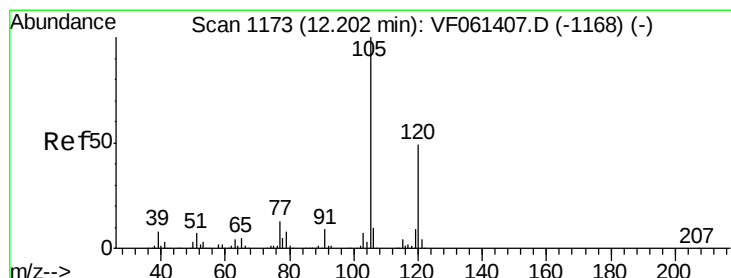
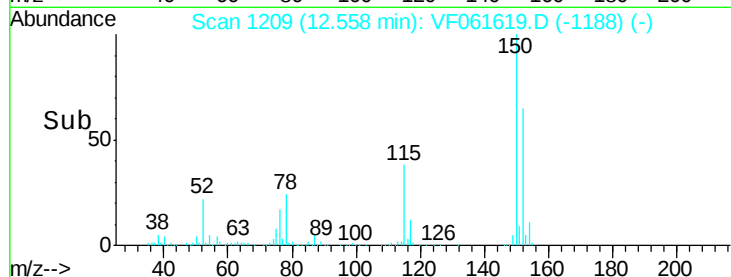
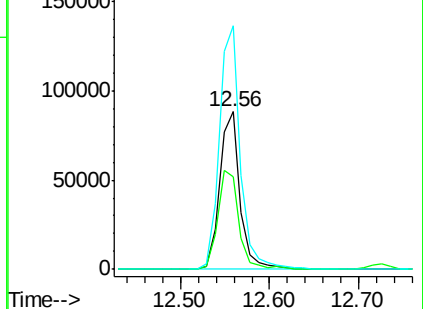
150 154.8 0.0 321.4



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



#84

1,2,4-Trimethylbenzene

Concen: 1.007 ug/l

RT: 12.20 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VF061619.D

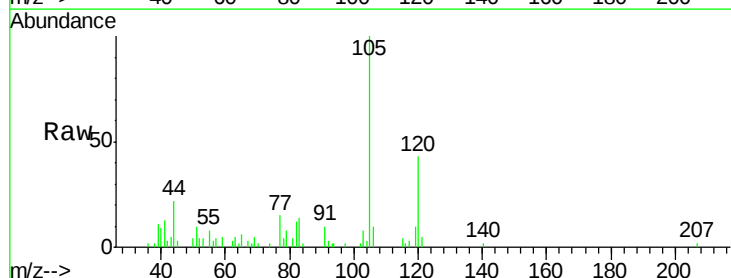
Acq: 12 Feb 2019 20:05

Tgt Ion:105 Resp: 9658

Ion Ratio Lower Upper

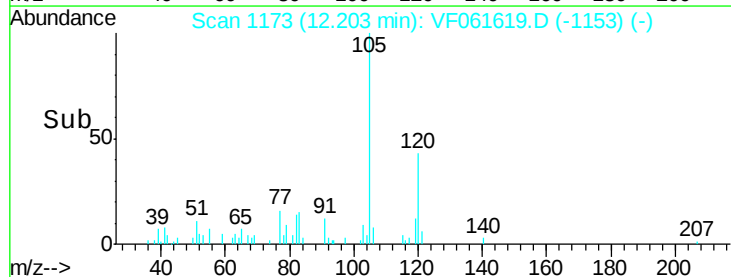
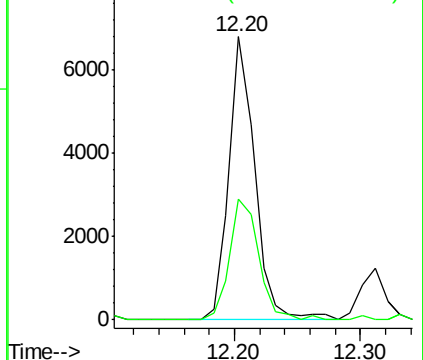
105 100

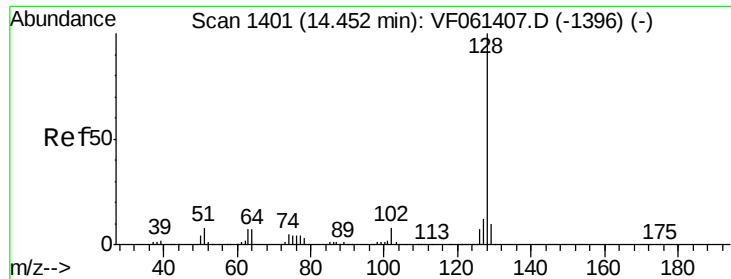
120 42.8 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#95

Napthalene

Concen: 1.894 ug/l

RT: 14.46 min Scan# 1402

Delta R.T. 0.01 min

Lab File: VF061619.D

Acq: 12 Feb 2019 20:05

Instrument :

MSVOA_F

ClientSampleId :

JC-02-021119-M

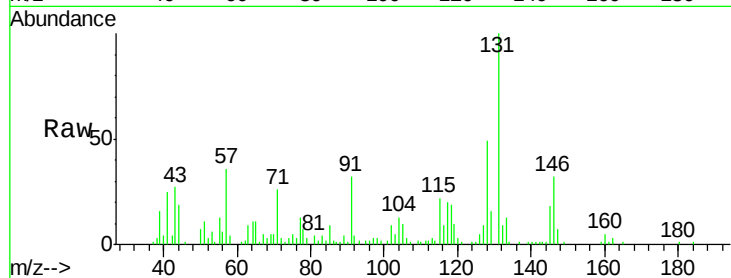
Tot Ion:128 Resp: 11488

Ion Ratio Lower Upper

128 100

127 18.6 9.5 14.3#

129 33.0 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

