

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF021219\
 Data File : VF061621.D
 Acq On : 12 Feb 2019 21:01
 Operator : VA/AP
 Sample : K1343-29
 Misc : 6.61g/5mL/MSVOA-F/SOIL
 ALS Vial : 20 Sample Multiplier: 1

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

Quant Time: Feb 13 02:51:55 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	197458	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.60	114	355480	50.00	ug/l	0.01
63) Chlorobenzene-d5	9.79	117	302156	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.56	152	119148	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	116415	47.75	ug/l	0.02
Spiked Amount			Recovery	=	95.50%	
35) Dibromofluoromethane	4.12	113	127600	45.49	ug/l	0.02
Spiked Amount			Recovery	=	90.98%	
50) Toluene-d8	7.56	98	294602	38.33	ug/l	0.01
Spiked Amount			Recovery	=	76.66%	
62) 4-Bromofluorobenzene	11.41	95	125858	35.05	ug/l	0.01
Spiked Amount			Recovery	=	70.10%	

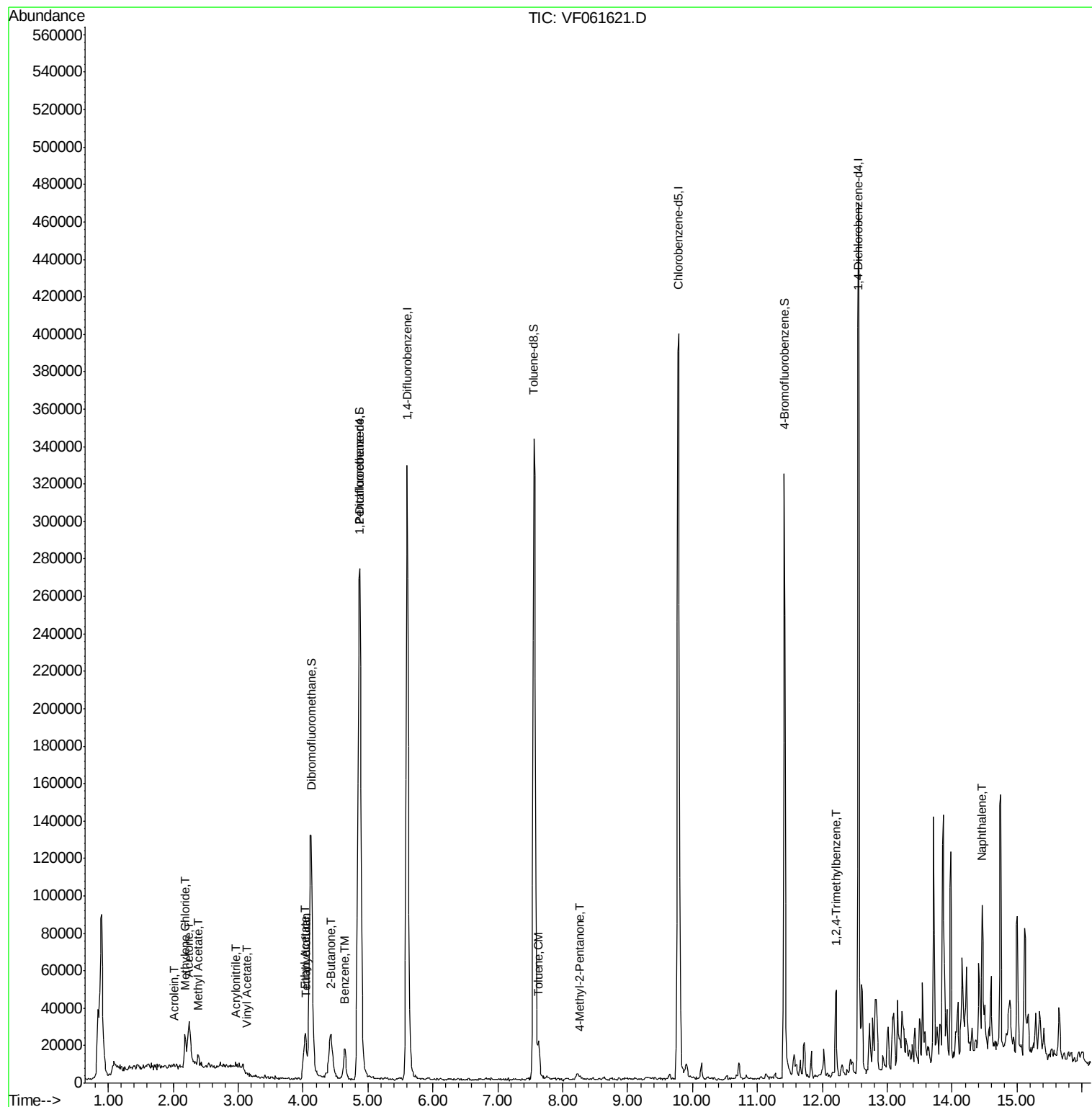
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	2.02	56	649	17.337	ug/l #	78
14) Allyl chloride	2.06	41	710	Below Cal	#	39
15) Acrylonitrile	2.96	53	302	1.143	ug/l #	28
16) Acetone	2.24	43	16197	33.118	ug/l	98
18) Methyl Acetate	2.37	43	3802	3.920	ug/l #	87
20) Methylene Chloride	2.18	84	7111	2.618	ug/l #	83
23) Vinyl Acetate	3.15	43	178	3.258	ug/l #	78
25) 2-Butanone	4.44	43	1040	1.279	ug/l	99
29) Tetrahydrofuran	4.05	42	494	1.411	ug/l #	90
37) Ethyl Acetate	4.04	43	2916	1.770	ug/l #	72
40) Benzene	4.64	78	18674	2.036	ug/l	97
49) 1,4-Dioxane	6.56	88	108	Below Cal	#	50
51) 4-Methyl-2-Pentanone	8.28	43	2121	1.395	ug/l	90
52) Toluene	7.63	92	8749	1.449	ug/l	89
84) 1,2,4-Trimethylbenzene	12.21	105	23128	2.871	ug/l	95
95) Naphthalene	14.46	128	15481	3.038	ug/l #	85

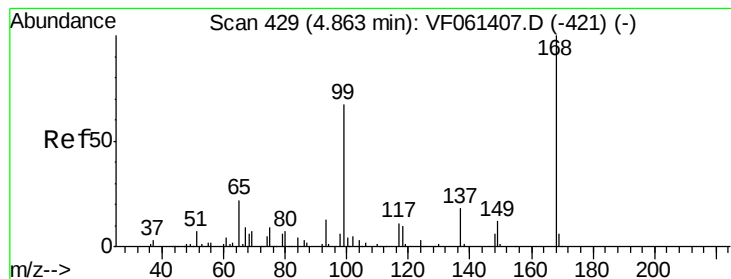
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VF061621.D

Acq: 12 Feb 2019 21:01

Instrument :

MSVOA_F

ClientSampleId :

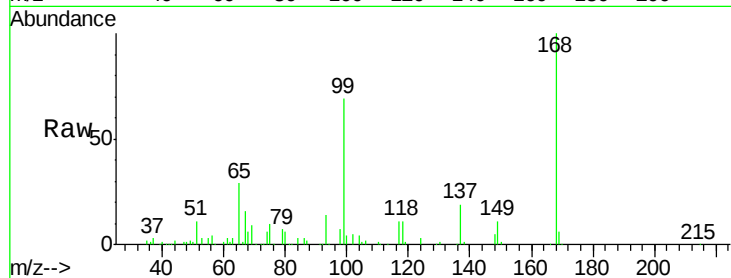
JC-02-021119-O

Tot Ion:168 Resp: 197458

Ion Ratio Lower Upper

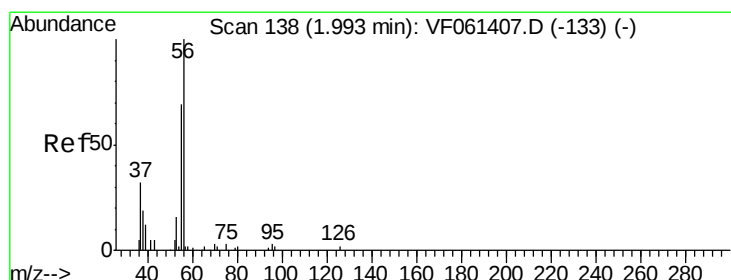
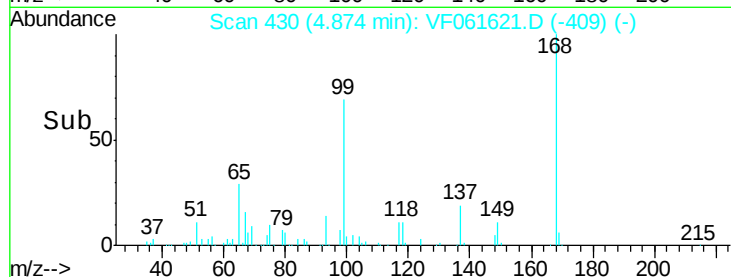
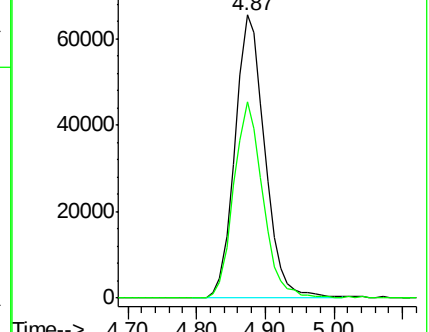
168 100

99 69.5 53.5 80.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#13

Acrolein

Concen: 17.337 ug/l

RT: 2.02 min Scan# 141

Delta R.T. 0.03 min

Lab File: VF061621.D

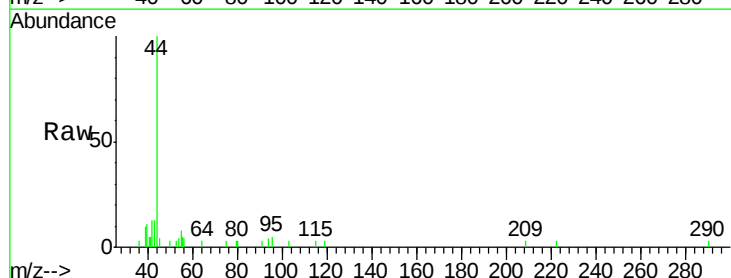
Acq: 12 Feb 2019 21:01

Tgt Ion: 56 Resp: 649

Ion Ratio Lower Upper

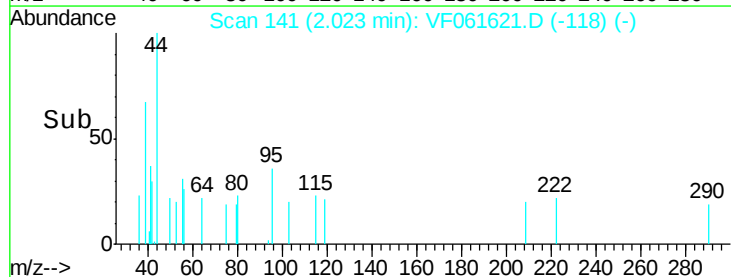
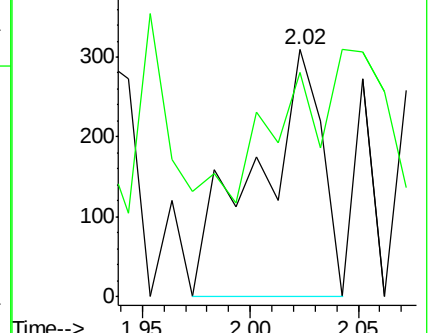
56 100

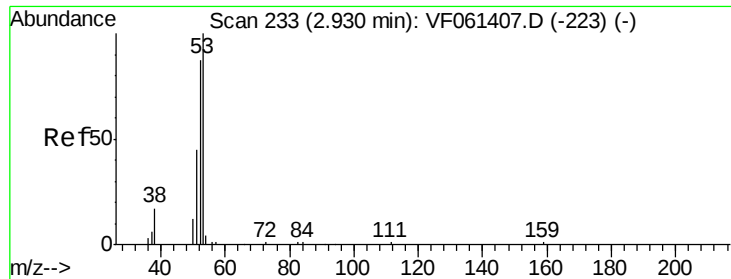
55 90.6 57.5 86.3#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0





#15

Acrylonitrile

Concen: 1.143 ug/l

RT: 2.96 min Scan# 236

Delta R.T. 0.03 min

Lab File: VF061621.D

Acq: 12 Feb 2019 21:01

Instrument :

MSVOA_F

ClientSampleId :

JC-02-021119-O

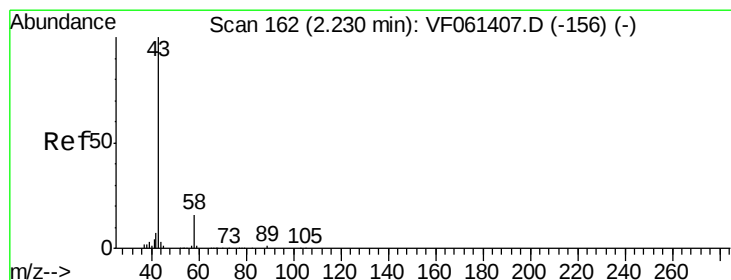
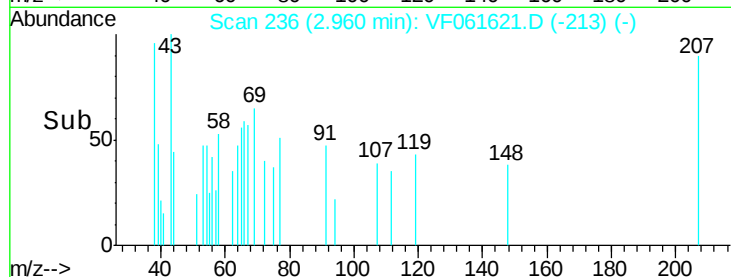
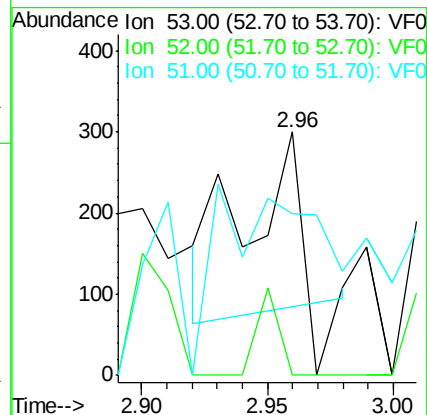
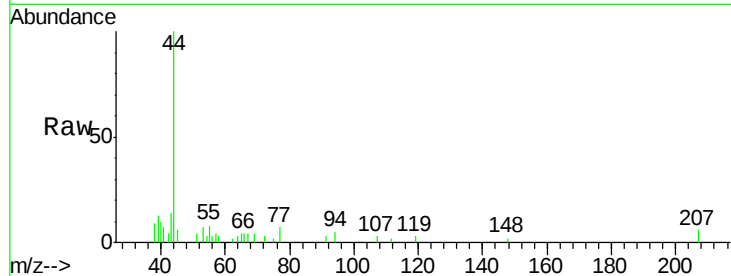
Tot Ion: 53 Resp: 302

Ion Ratio Lower Upper

53 100

52 0.0 69.6 104.4#

51 66.7 36.8 55.2#



#16

Acetone

Concen: 33.118 ug/l

RT: 2.24 min Scan# 163

Delta R.T. 0.01 min

Lab File: VF061621.D

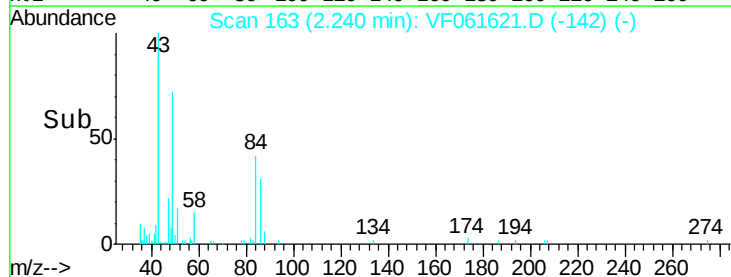
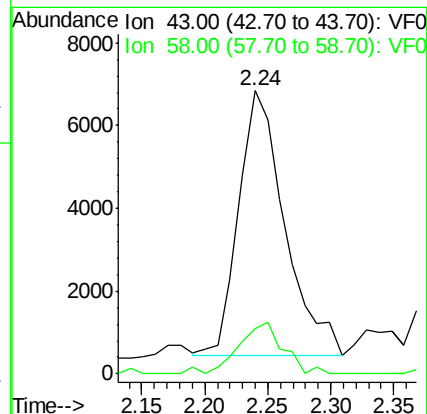
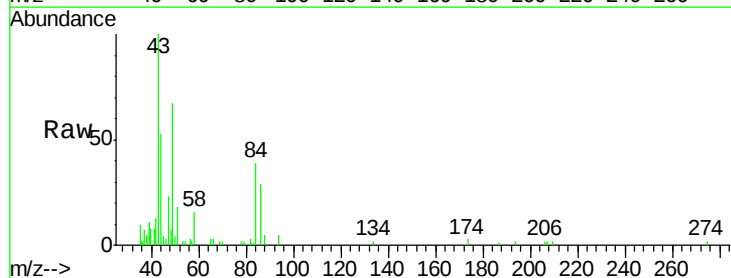
Acq: 12 Feb 2019 21:01

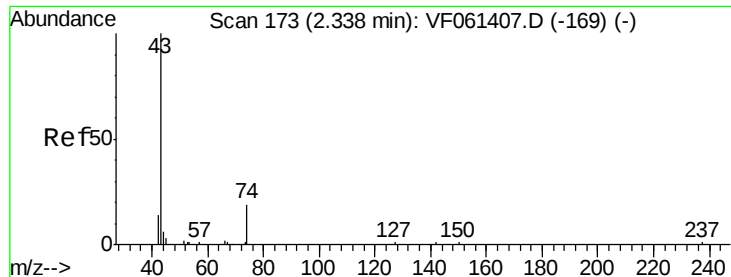
Tgt Ion: 43 Resp: 16197

Ion Ratio Lower Upper

43 100

58 15.9 13.3 19.9

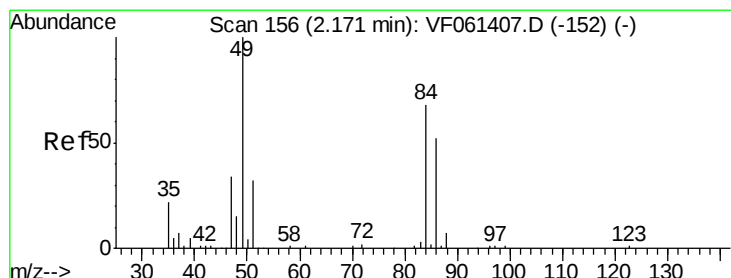
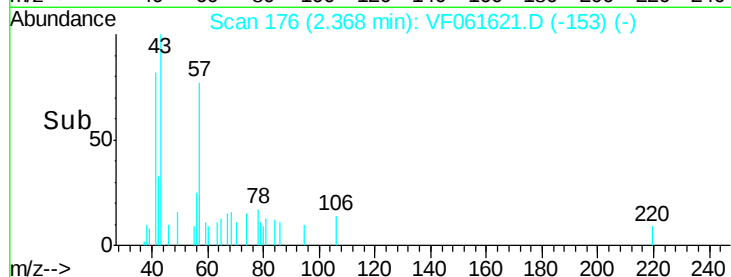
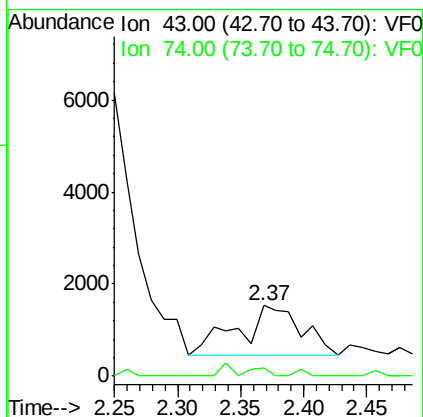
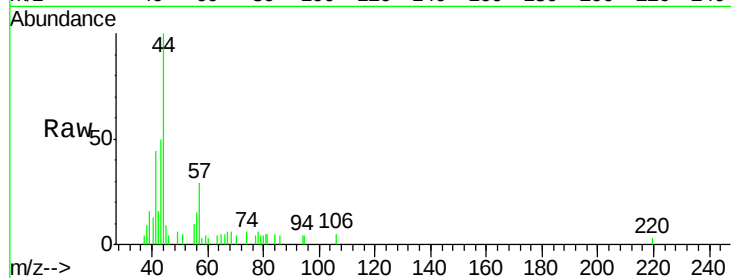




#18
Methyl Acetate
Concen: 3.920 ug/l
RT: 2.37 min Scan# 176
Delta R.T. 0.03 min
Lab File: VF061621.D
Acq: 12 Feb 2019 21:01

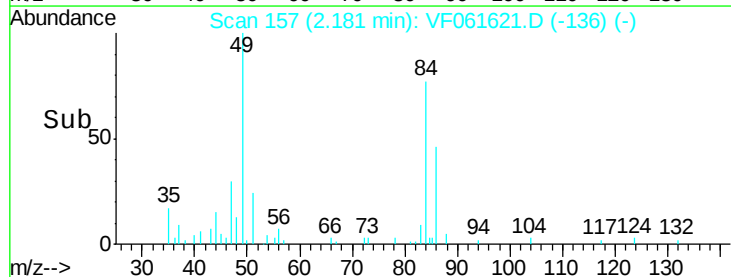
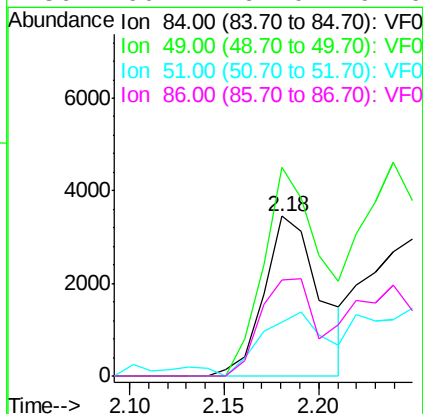
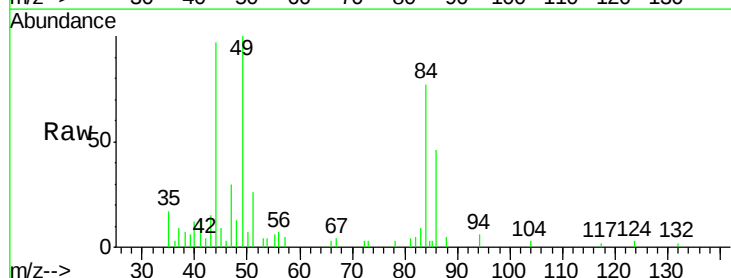
Instrument :
MSVOA_F
ClientSampleId :
JC-02-021119-O

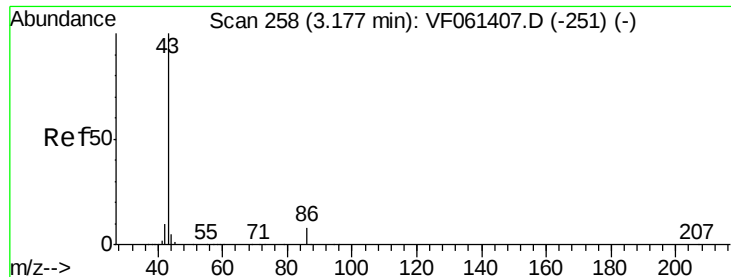
Tot Ion: 43 Resp: 3802
Ion Ratio Lower Upper
43 100
74 11.1 13.4 20.0#



#20
Methylene Chloride
Concen: 2.618 ug/l
RT: 2.18 min Scan# 157
Delta R.T. 0.01 min
Lab File: VF061621.D
Acq: 12 Feb 2019 21:01

Tgt Ion: 84 Resp: 7111
Ion Ratio Lower Upper
84 100
49 130.7 120.0 180.0
51 34.0 38.6 58.0#
86 60.4 61.0 91.6#





#23

Vinyl Acetate

Concen: 3.258 ug/l

RT: 3.15 min Scan# 255

Delta R.T. -0.03 min

Lab File: VF061621.D

Acq: 12 Feb 2019 21:01

Instrument :

MSVOA_F

ClientSampleId :

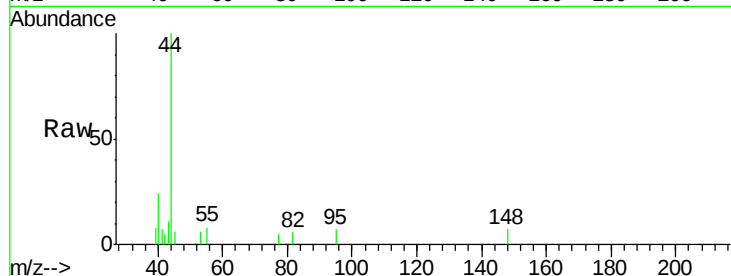
JC-02-021119-O

Tot Ion: 43 Resp: 178

Ion Ratio Lower Upper

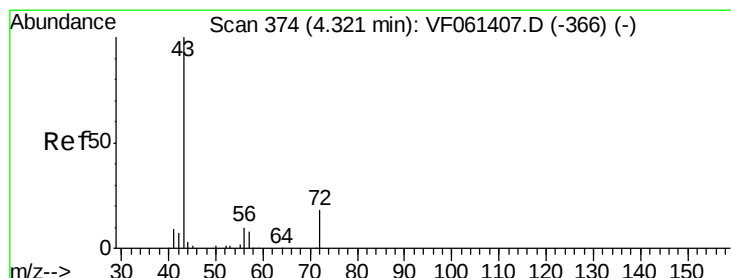
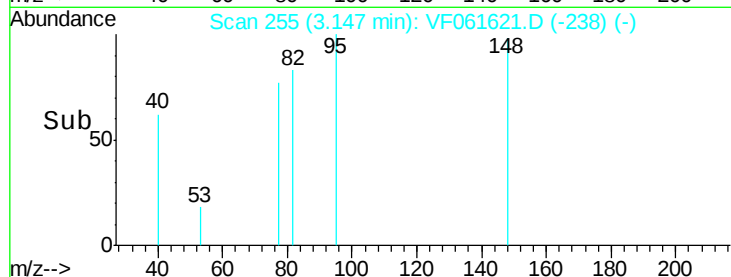
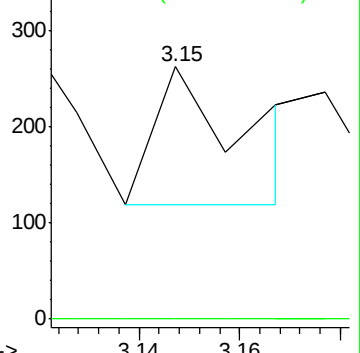
43 100

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: 1.279 ug/l

RT: 4.44 min Scan# 386

Delta R.T. 0.12 min

Lab File: VF061621.D

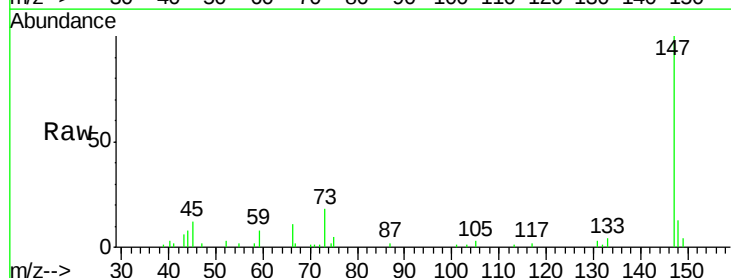
Acq: 12 Feb 2019 21:01

Tgt Ion: 43 Resp: 1040

Ion Ratio Lower Upper

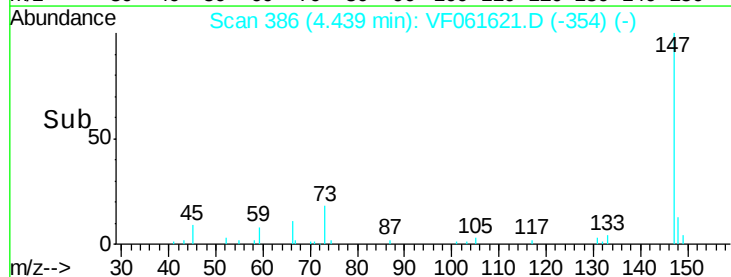
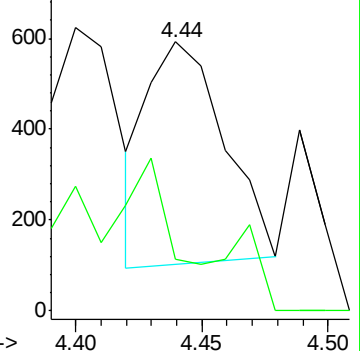
43 100

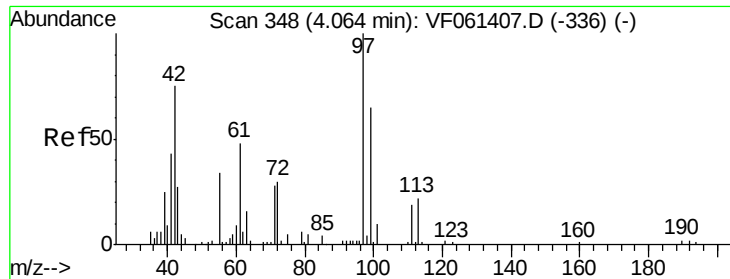
72 19.1 15.8 23.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0





#29

Tetrahydrofuran

Concen: 1.411 ug/l

RT: 4.05 min Scan# 347

Delta R.T. -0.01 min

Lab File: VF061621.D

Acq: 12 Feb 2019 21:01

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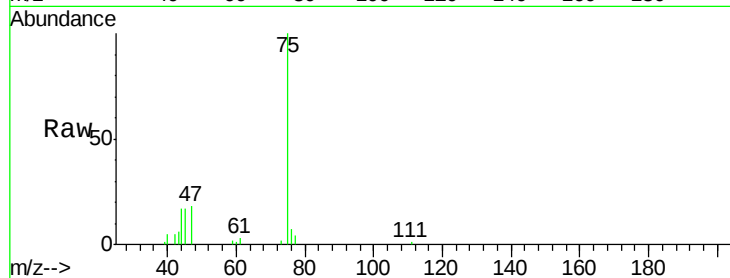
Tot Ion: 42 Resp: 494

Ion Ratio Lower Upper

42 100

72 44.5 28.9 43.3#

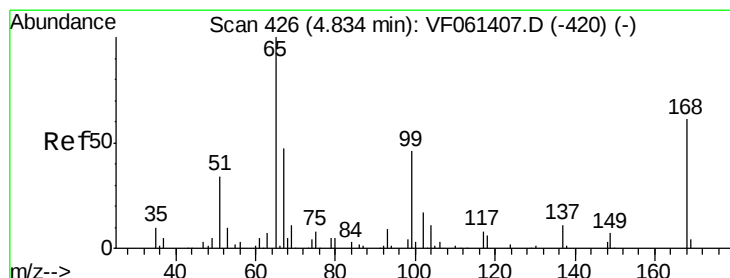
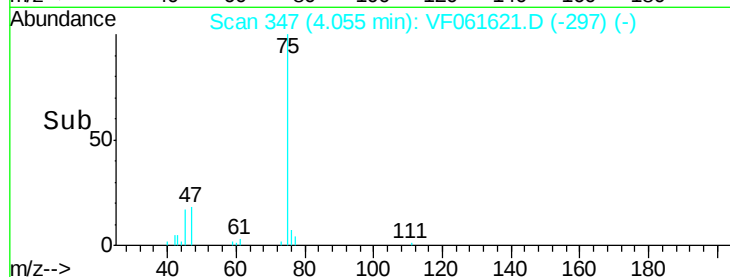
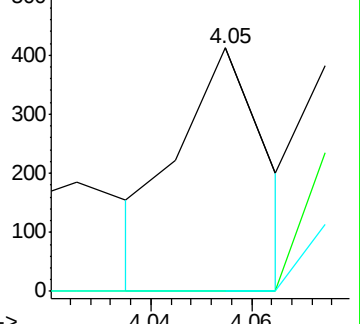
71 39.9 29.6 44.4



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: 47.753 ug/l

RT: 4.85 min Scan# 428

Delta R.T. 0.02 min

Lab File: VF061621.D

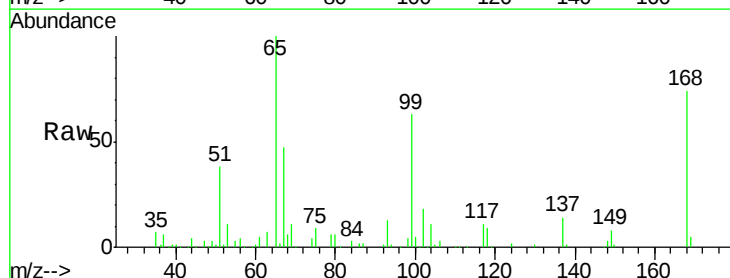
Acq: 12 Feb 2019 21:01

Tgt Ion: 65 Resp: 116415

Ion Ratio Lower Upper

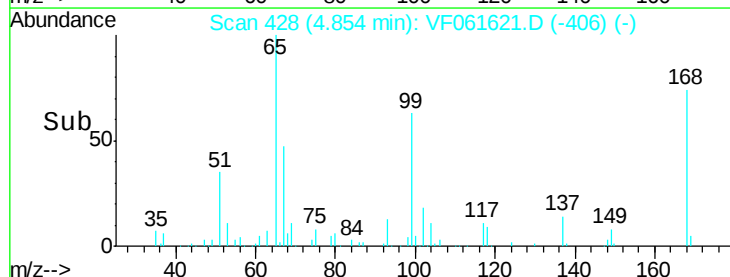
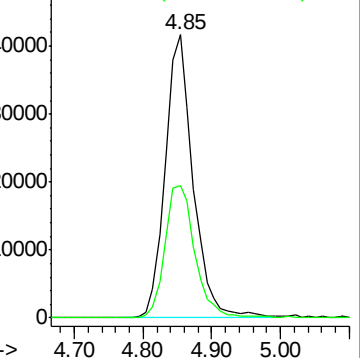
65 100

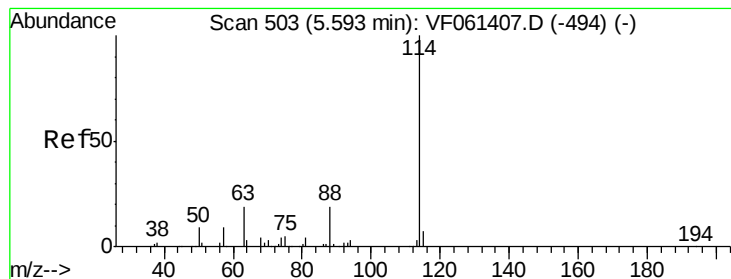
67 46.8 0.0 99.8



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: 5.60 min Scan# 504

Delta R.T. 0.01 min

Lab File: VF061621.D

Acq: 12 Feb 2019 21:01

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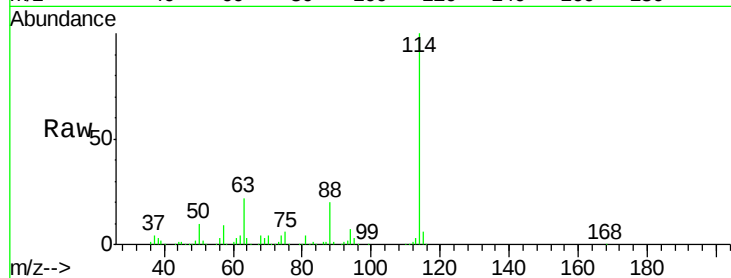
Tot Ion:114 Resp: 355480

Ion Ratio Lower Upper

114 100

63 22.0 0.0 39.0

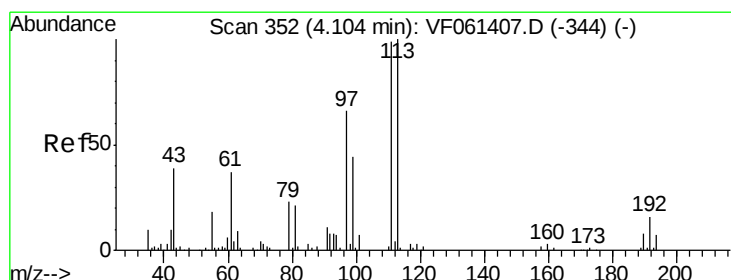
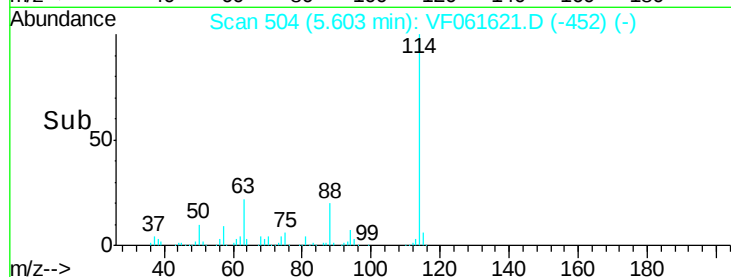
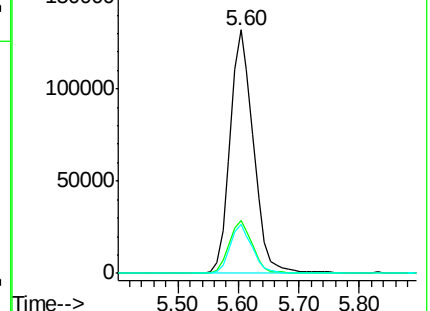
88 20.0 0.0 37.4



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: 45.489 ug/l

RT: 4.12 min Scan# 354

Delta R.T. 0.02 min

Lab File: VF061621.D

Acq: 12 Feb 2019 21:01

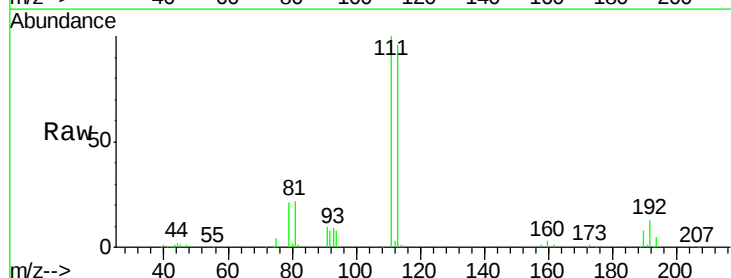
Tgt Ion:113 Resp: 127600

Ion Ratio Lower Upper

113 100

111 103.7 79.4 119.0

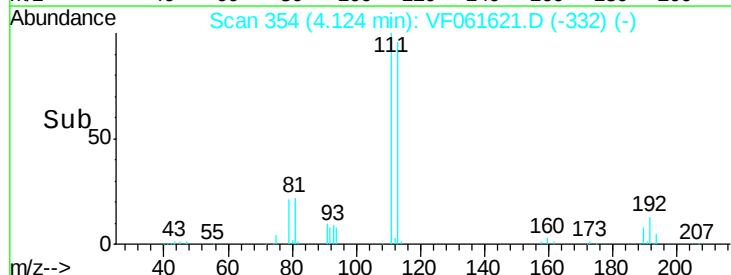
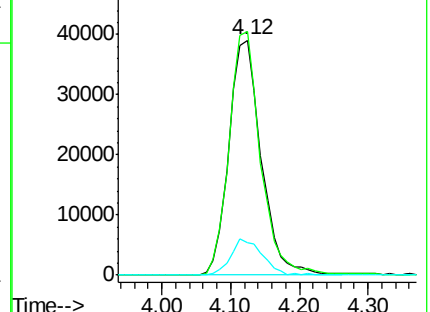
192 14.2 12.4 18.6

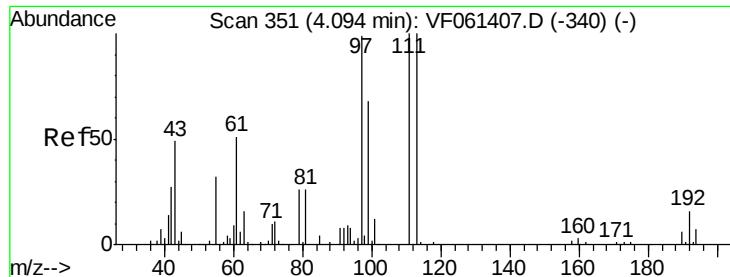


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#37

Ethyl Acetate

Concen: 1.770 ug/l

RT: 4.04 min Scan# 346

Delta R.T. -0.05 min

Lab File: VF061621.D

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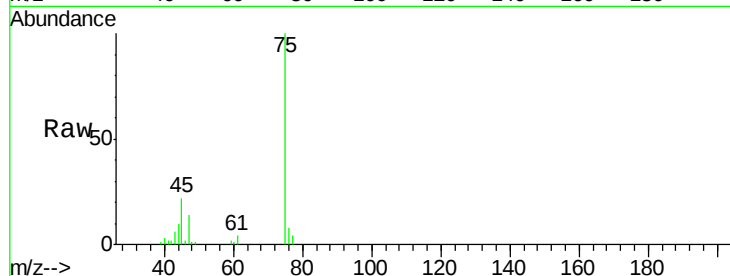
Tot Ion: 43 Resp: 2916

Ion Ratio Lower Upper

43 100

61 73.0 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

800

600

400

200

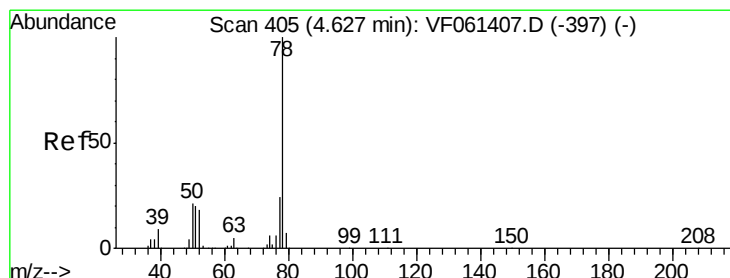
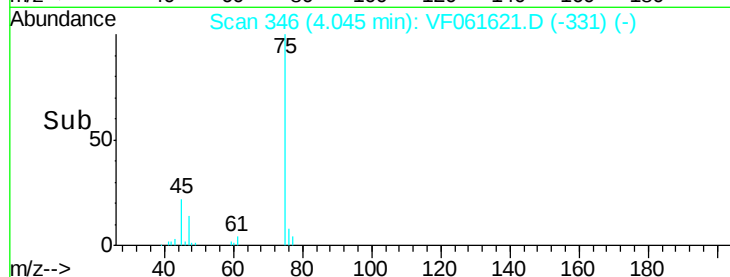
0

3.90

4.00

4.10

Time-->



#40

Benzene

Concen: 2.036 ug/l

RT: 4.64 min Scan# 406

Delta R.T. 0.01 min

Lab File: VF061621.D

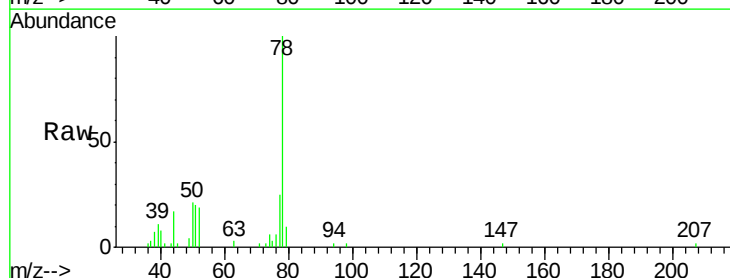
Acq: 12 Feb 2019 21:01

Tgt Ion: 78 Resp: 18674

Ion Ratio Lower Upper

78 100

77 25.1 19.0 28.6



Abundance Ion 78.10 (77.80 to 78.80): VF0

Ion 77.00 (76.70 to 77.70): VF0

6000

4000

2000

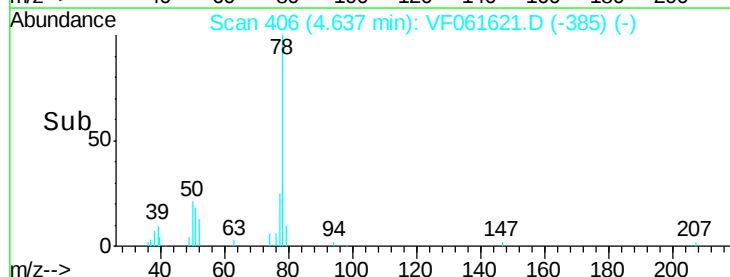
0

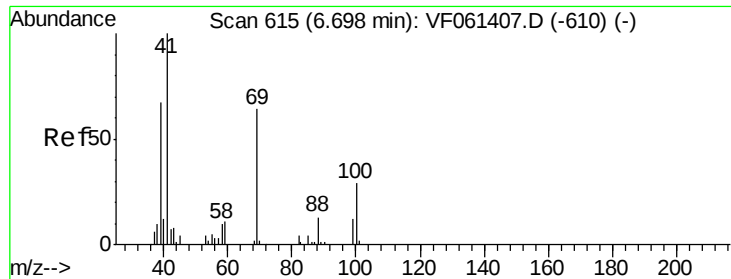
4.50

4.60

4.70

Time-->





#49

1,4-Dioxane

Concen: Below Cal

RT: 6.56 min Scan# 601

Delta R.T. -0.14 min

Lab File: VF061621.D

Acq: 12 Feb 2019 21:01

Instrument :

MSVOA_F

ClientSampleId :

JC-02-021119-O

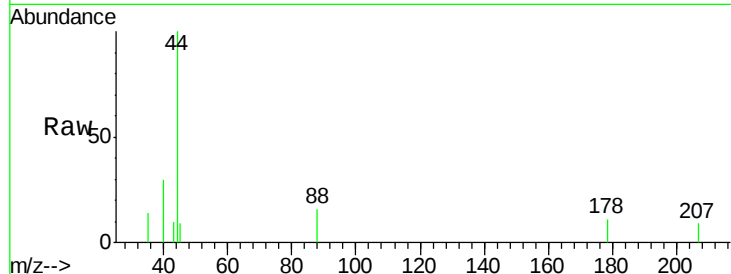
Tot Ion: 88 Resp: 108

Ion Ratio Lower Upper

88 100

43 62.3 55.5 83.3

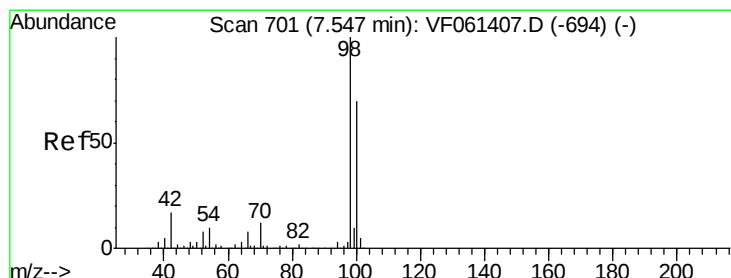
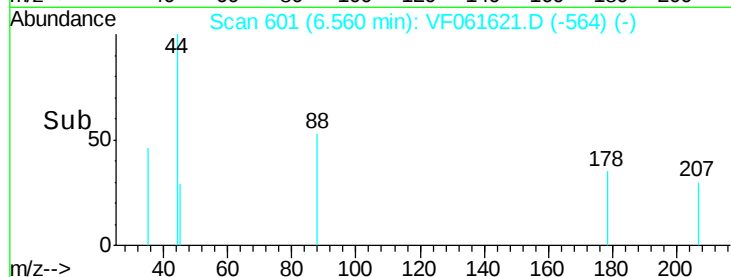
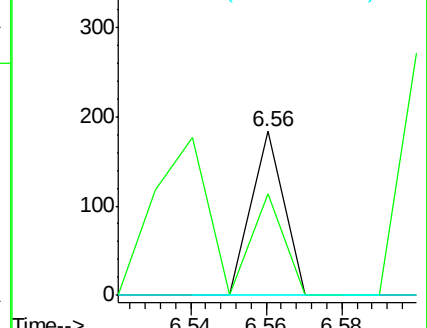
58 0.0 59.9 89.9#



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: 38.333 ug/l

RT: 7.56 min Scan# 702

Delta R.T. 0.01 min

Lab File: VF061621.D

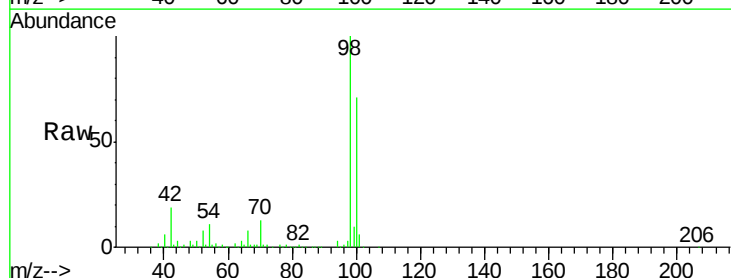
Acq: 12 Feb 2019 21:01

Tgt Ion: 98 Resp: 294602

Ion Ratio Lower Upper

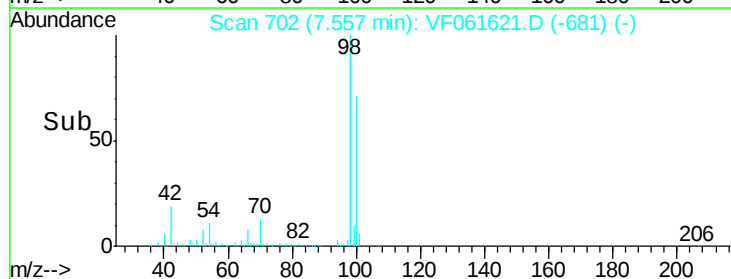
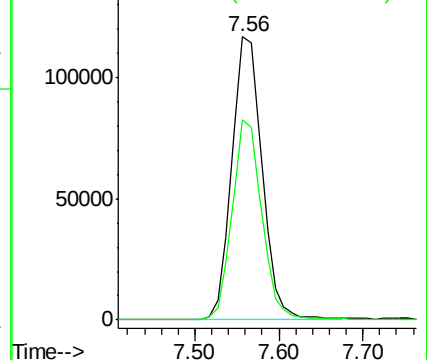
98 100

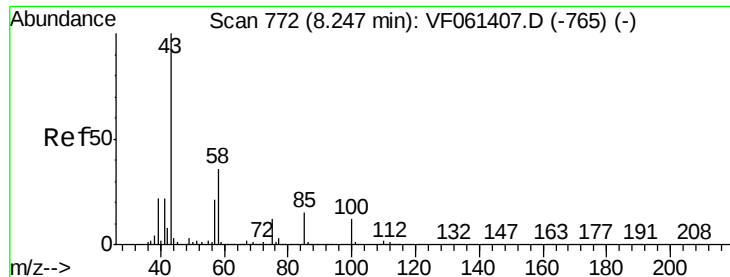
100 70.8 55.6 83.4



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 1.395 ug/l

RT: 8.28 min Scan# 775

Delta R.T. 0.03 min

Lab File: VF061621.D

Acq: 12 Feb 2019 21:01

Instrument :

MSVOA_F

ClientSampleId :

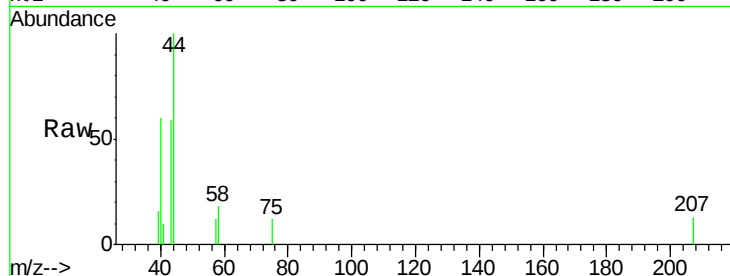
JC-02-021119-O

Tot Ion: 43 Resp: 2121

Ion Ratio Lower Upper

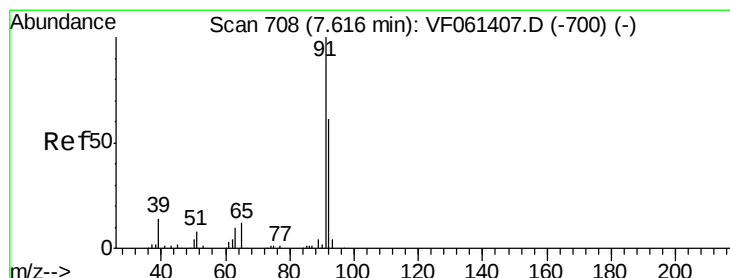
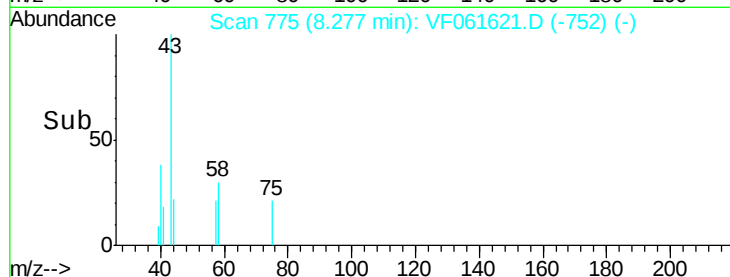
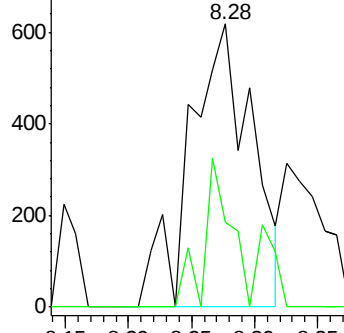
43 100

58 29.9 28.8 43.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 1.449 ug/l

RT: 7.63 min Scan# 709

Delta R.T. 0.01 min

Lab File: VF061621.D

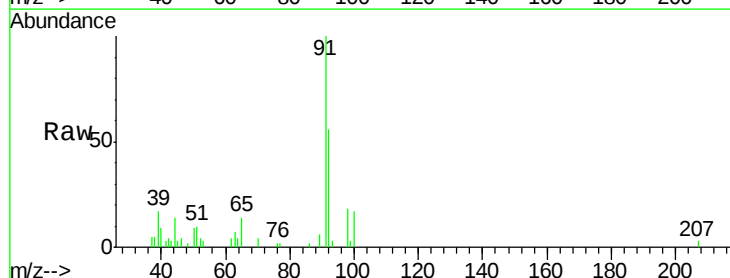
Acq: 12 Feb 2019 21:01

Tgt Ion: 92 Resp: 8749

Ion Ratio Lower Upper

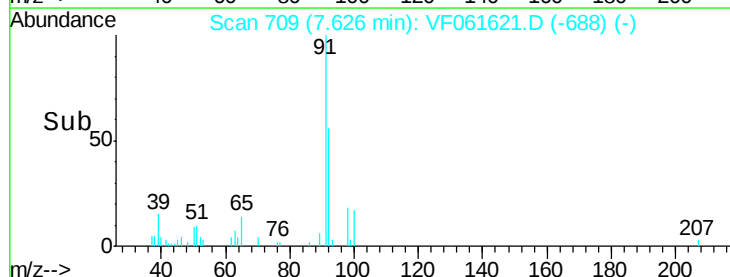
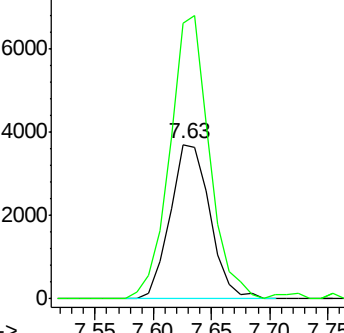
92 100

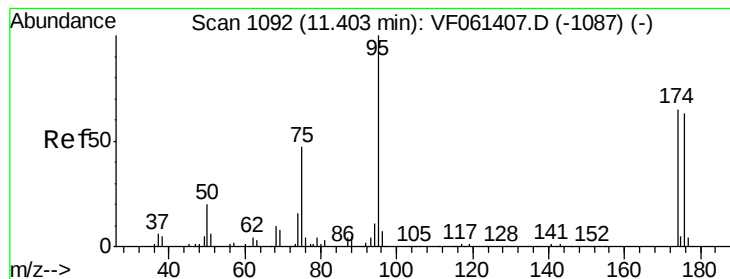
91 179.0 131.2 196.8



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#62

4-Bromofluorobenzene

Concen: 35.050 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. 0.01 min

Lab File: VF061621.D

Acq: 12 Feb 2019 21:01

Instrument :

MSVOA_F

ClientSampleId :

JC-02-021119-O

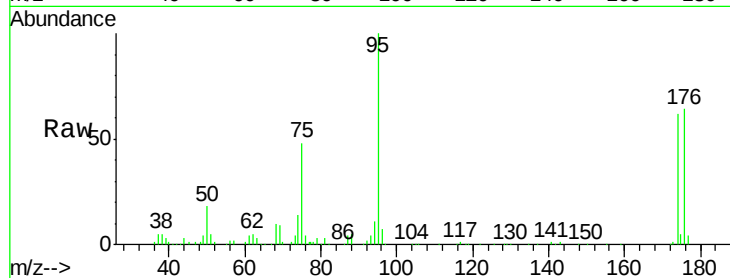
Tot Ion: 95 Resp: 125858

Ion Ratio Lower Upper

95 100

174 61.8 0.0 130.4

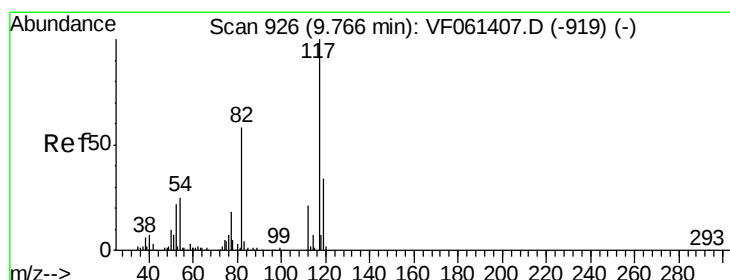
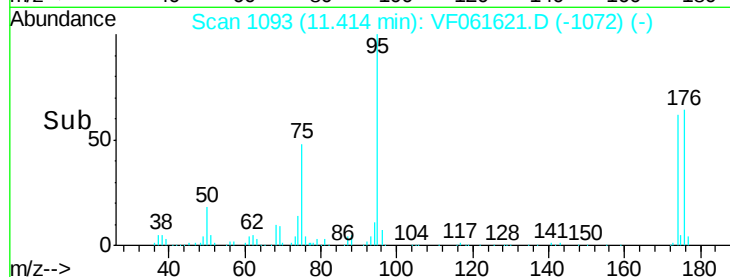
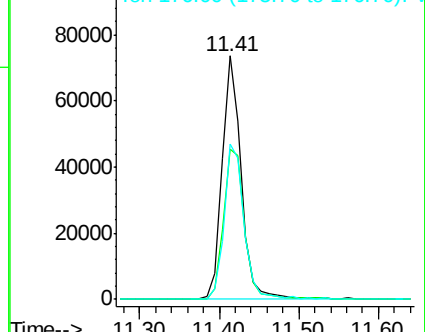
176 63.6 0.0 126.2



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: 9.79 min Scan# 928

Delta R.T. 0.02 min

Lab File: VF061621.D

Acq: 12 Feb 2019 21:01

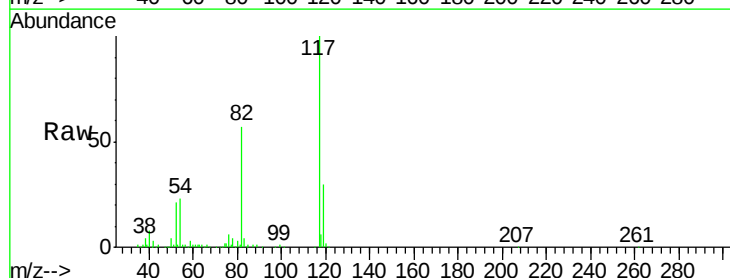
Tgt Ion: 117 Resp: 302156

Ion Ratio Lower Upper

117 100

82 57.3 46.4 69.6

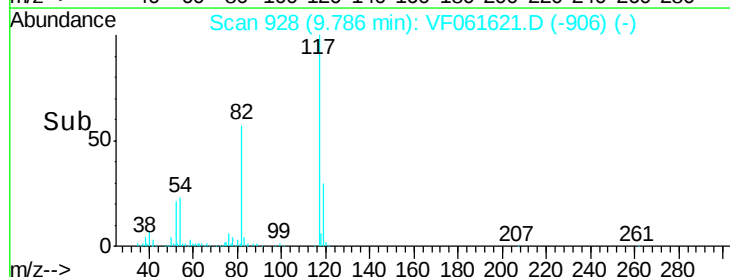
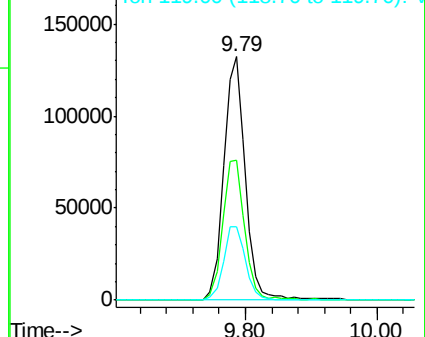
119 30.0 27.2 40.8

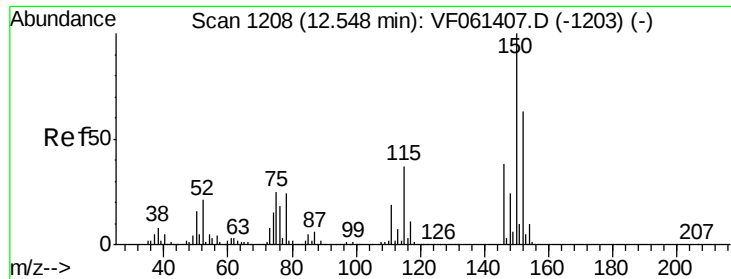


Abundance Ion 117.00 (116.70 to 117.70): VF0

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: 12.56 min Scan# 1209

Delta R.T. 0.01 min

Lab File: VF061621.D

Acq: 12 Feb 2019 21:01

Instrument :

MSVOA_F

ClientSampleId :

JC-02-021119-O

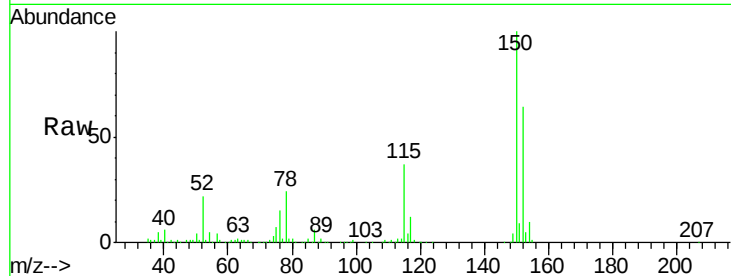
Tot Ion:152 Resp: 119148

Ion Ratio Lower Upper

152 100

115 58.3 30.0 90.0

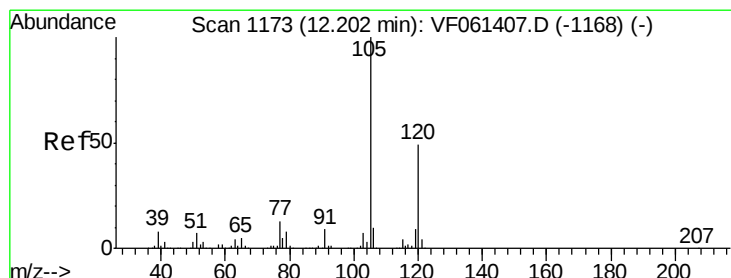
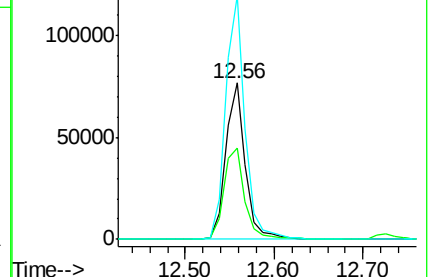
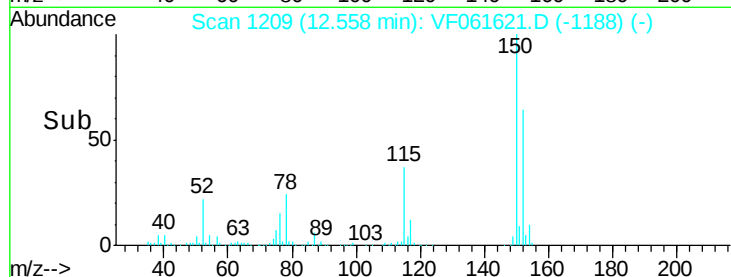
150 156.1 0.0 321.4



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: 2.871 ug/l

RT: 12.21 min Scan# 1174

Delta R.T. 0.01 min

Lab File: VF061621.D

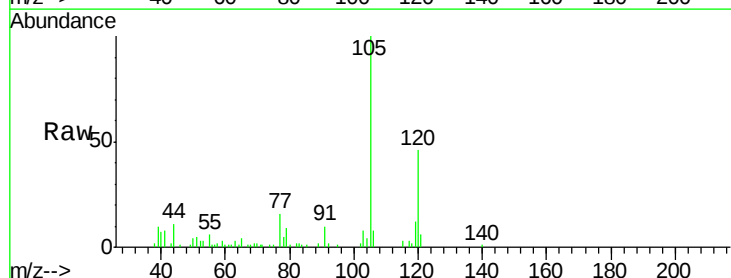
Acq: 12 Feb 2019 21:01

Tgt Ion:105 Resp: 23128

Ion Ratio Lower Upper

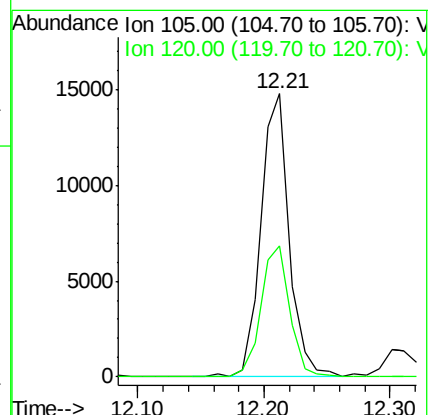
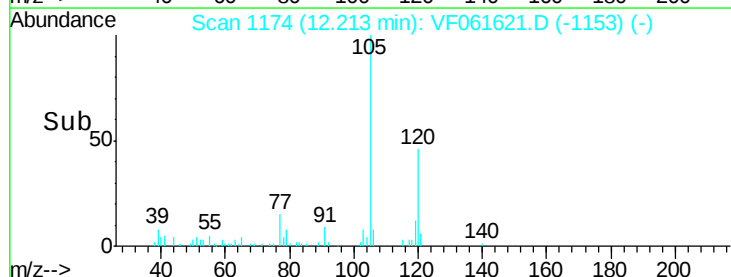
105 100

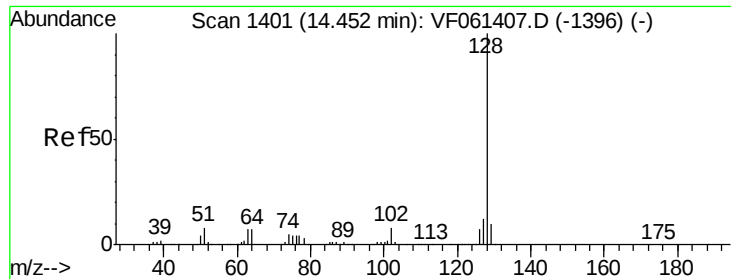
120 46.4 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#95
 Naphthalene
 Concen: 3.038 ug/l
 RT: 14.46 min Scan# 1402
 Delta R.T. 0.01 min
 Lab File: VF061621.D
 Acq: 12 Feb 2019 21:01

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

Tot Ion:128 Resp: 15481
 Ion Ratio Lower Upper
 128 100
 127 14.9 9.5 14.3#
 129 19.2 8.4 12.6#

