

Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG060319\
 Data File : BG041048.D
 Acq On : 3 Jun 2019 23:51
 Operator : HP/JU
 Sample : K3052-01 2X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 FK-SF-03-007-A

Quant Time: Jun 04 08:07:30 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG052919.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 29 18:39:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.12	152	115732	20.00	ng	0.00
21) Naphthalene-d8	10.94	136	408029	20.00	ng	0.00
39) Acenaphthene-d10	14.75	164	259820	20.00	ng	0.00
64) Phenanthrene-d10	17.49	188	577396	20.00	ng	0.00
76) Chrysene-d12	21.78	240	596518	20.00	ng	0.00
87) Perylene-d12	25.13	264	560187	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.66	112	85553	13.33	ng	0.00
7) Phenol-d6	7.27	99	285583	28.81	ng	0.00
23) Nitrobenzene-d5	9.30	82	218044	23.72	ng	0.00
42) 2,4,6-Tribromophenol	16.23	330	13607	3.53	ng	-0.01
45) 2-Fluorobiphenyl	13.38	172	426231	23.62	ng	0.00
79) Terphenyl-d14	20.09	244	605875	21.56	ng	0.00

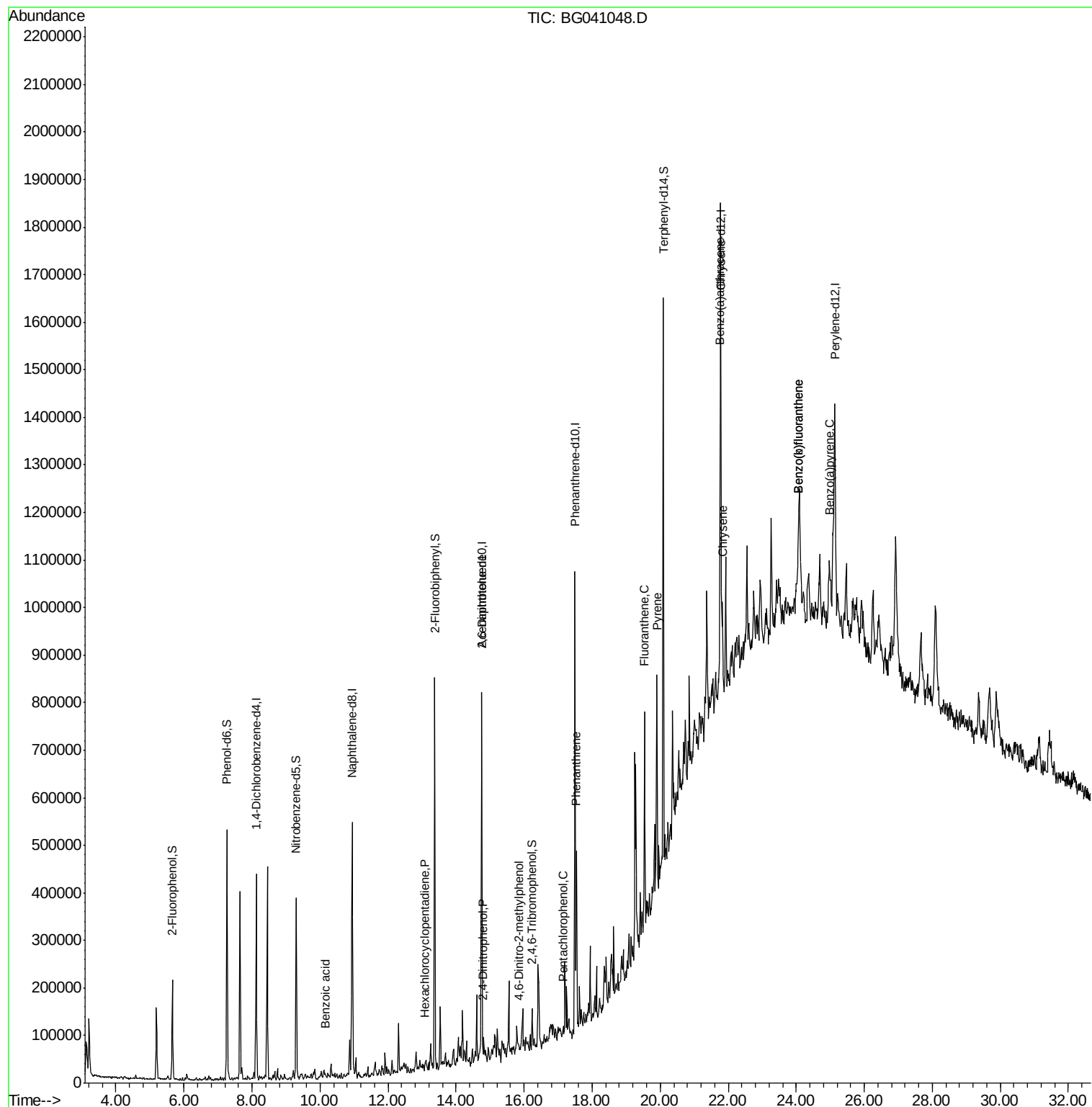
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
32) Benzoic acid	10.15	122	67	8.141	ng	# 1
41) Hexachlorocyclopentadiene	13.09	237	55	8.244	ng	# 26
51) 2,6-Dinitrotoluene	14.75	165	34910	7.362	ng	# 19
54) 2,4-Dinitrophenol	14.79	184	56	8.279	ng	# 1
65) 4,6-Dinitro-2-methylphenol	15.84	198	72	8.609	ng	# 1
70) Pentachlorophenol	17.15	266	75	4.272	ng	# 18
71) Phenanthrene	17.54	178	239201	7.953	ng	99
75) Fluoranthene	19.54	202	301478	8.115	ng	100
78) Pyrene	19.90	202	287014	7.402	ng	98
81) Benzo(a)anthracene	21.76	228	135970	3.424	ng	# 93
83) Chrysene	21.82	228	155187	4.084	ng	# 88
88) Benzo(b)fluoranthene	24.05	252	139562	4.108	ng	# 46
89) Benzo(k)fluoranthene	24.05	252	139562	4.151	ng	# 45
90) Benzo(a)pyrene	24.97	252	99260	3.062	ng	# 71

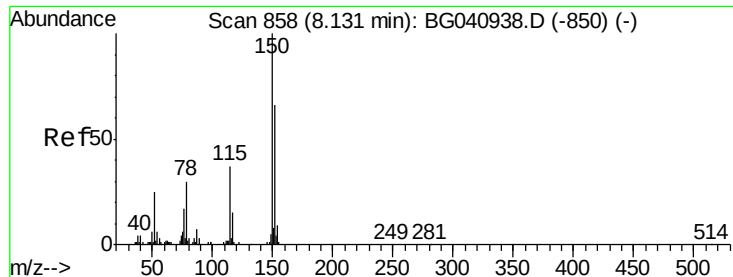
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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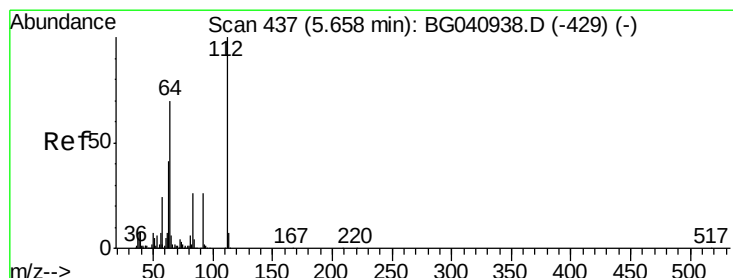
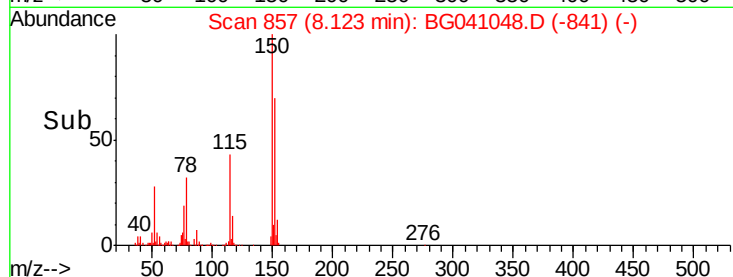
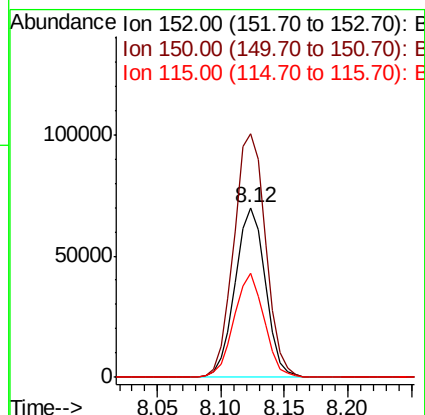
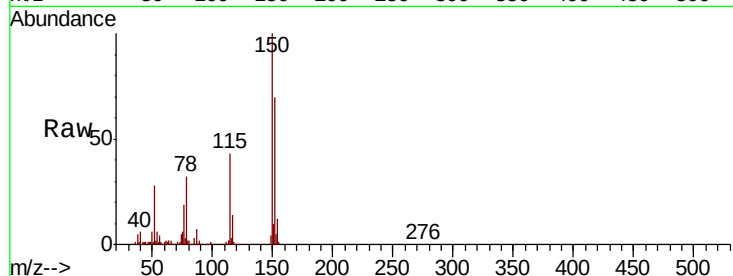


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.12 min Scan# 857
Delta R.T. -0.01 min
Lab File: BG041048.D
Acq: 3 Jun 2019 23:51

Instrument :
BNA_G
ClientSampleId :
FK-SF-03-007-A

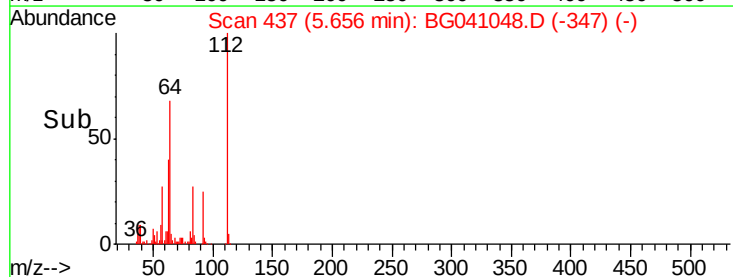
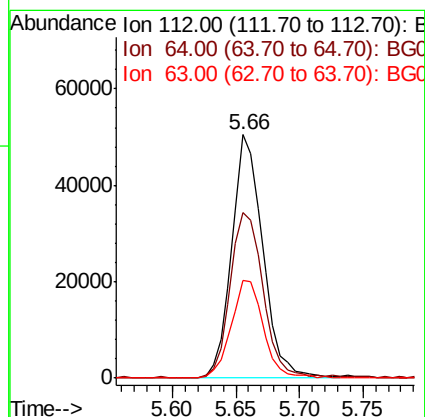
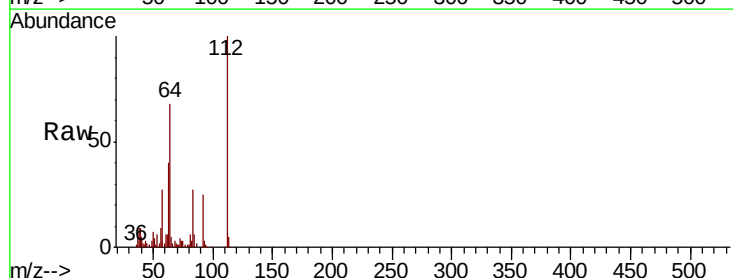
Tgt Ion	Ratio	Lower	Upper
152	100		
150	143.4	120.6	180.8
115	61.1	45.1	67.7

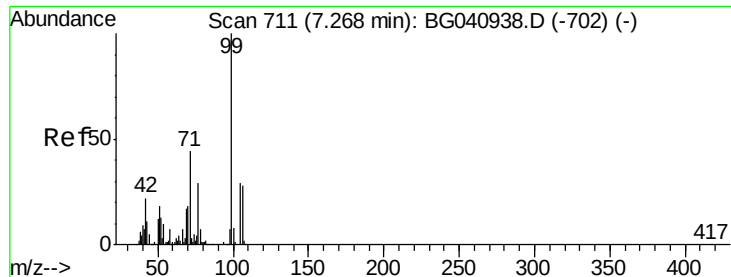


#5

2-Fluorophenol
Concen: 13.330 ng
RT: 5.66 min Scan# 437
Delta R.T. -0.00 min
Lab File: BG041048.D
Acq: 3 Jun 2019 23:51

Tgt Ion	Ratio	Lower	Upper
112	100		
64	68.0	56.2	84.2
63	40.3	32.8	49.2





#7

Phenol-d6

Concen: 28.812 ng

RT: 7.27 min Scan# 711

Delta R.T. -0.00 min

Lab File: BG041048.D

Acq: 3 Jun 2019 23:51

Instrument :

BNA_G

ClientSampleId :

FK-SF-03-007-A

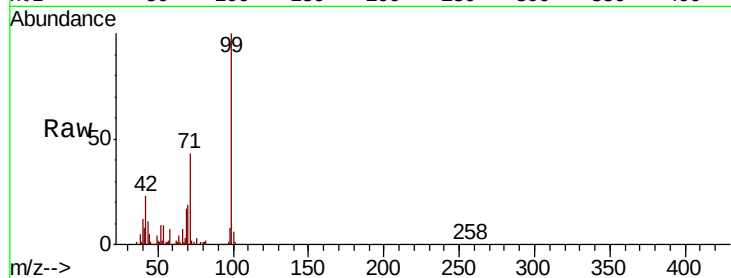
Tgt Ion: 99 Resp: 285583

Ion Ratio Lower Upper

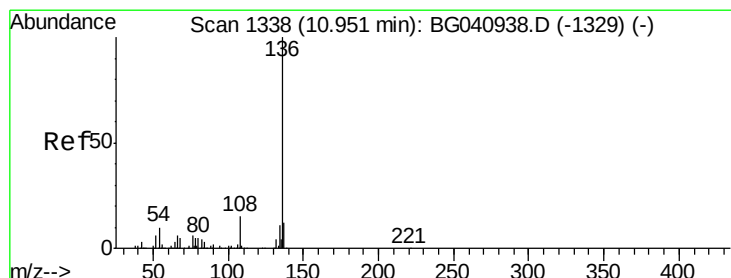
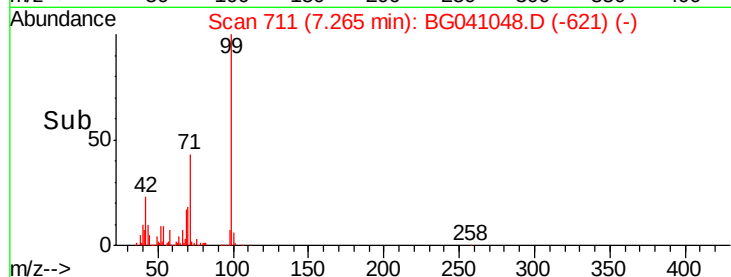
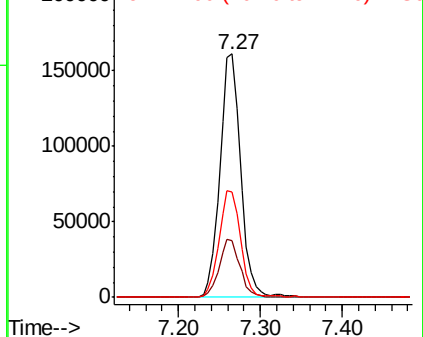
99 100

42 23.4 17.9 26.9

71 43.2 35.4 53.0



Abundance Ion 99.00 (98.70 to 99.70): BGC
Ion 42.00 (41.70 to 42.70): BGC
Ion 71.00 (70.70 to 71.70): BGC



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.94 min Scan# 1337

Delta R.T. -0.01 min

Lab File: BG041048.D

Acq: 3 Jun 2019 23:51

Tgt Ion: 136 Resp: 408029

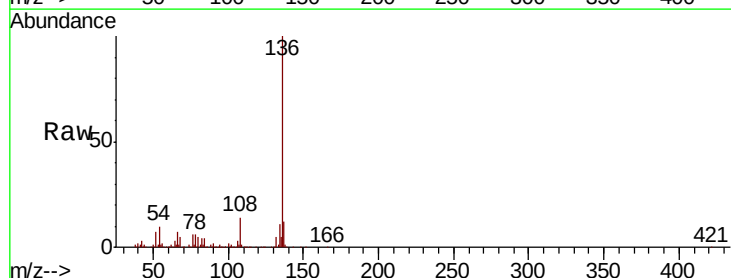
Ion Ratio Lower Upper

136 100

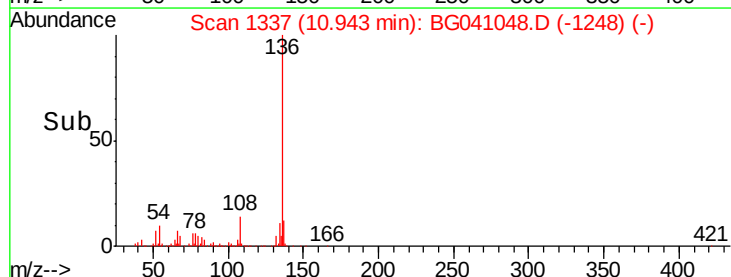
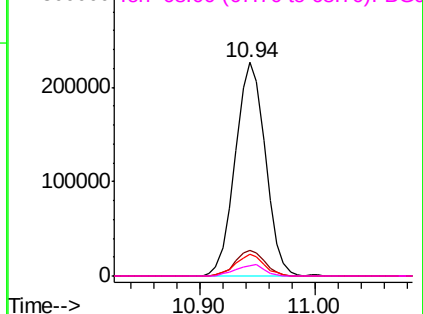
137 11.9 9.5 14.3

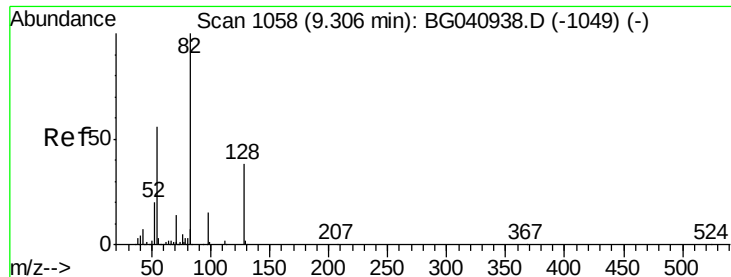
54 10.4 7.6 11.4

68 5.0 3.9 5.9



Abundance Ion 136.00 (135.70 to 136.70): BGC
Ion 137.00 (136.70 to 137.70): BGC
Ion 54.00 (53.70 to 54.70): BGC
Ion 68.00 (67.70 to 68.70): BGC

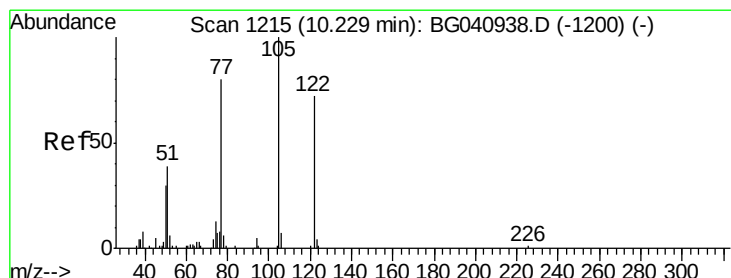
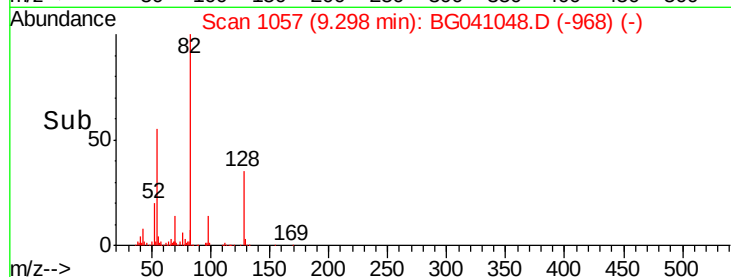
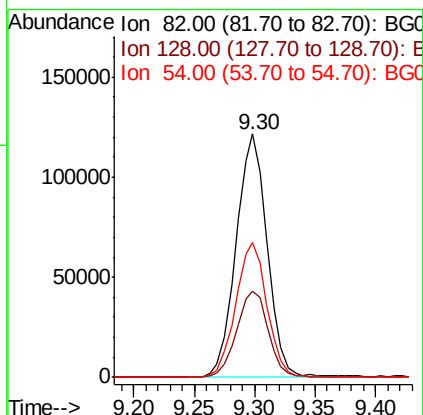
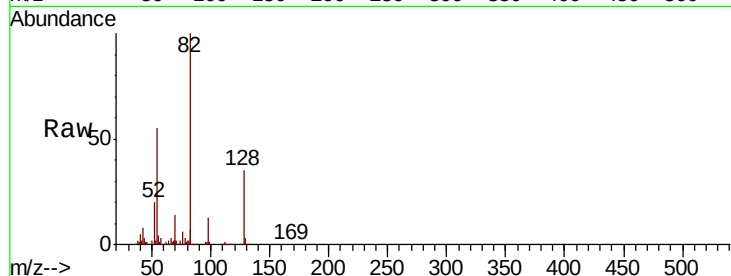




#23
 Nitrobenzene-d5
 Concen: 23.723 ng
 RT: 9.30 min Scan# 1057
 Delta R.T. -0.01 min
 Lab File: BG041048.D
 Acq: 3 Jun 2019 23:51

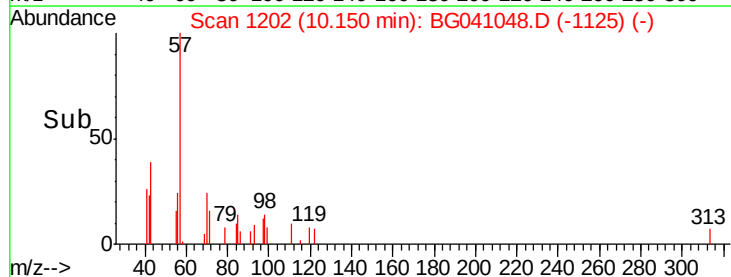
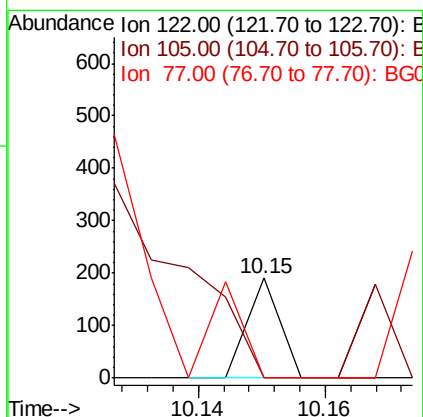
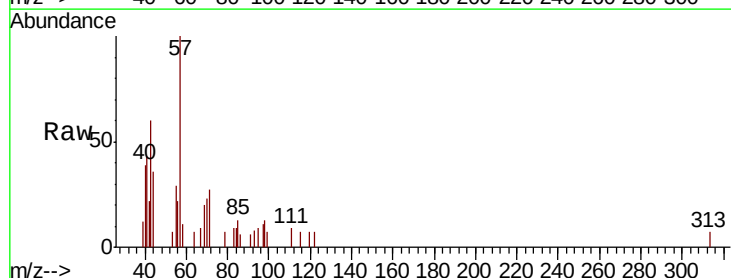
Instrument :
 BNA_G
 ClientSampleId :
 FK-SF-03-007-A

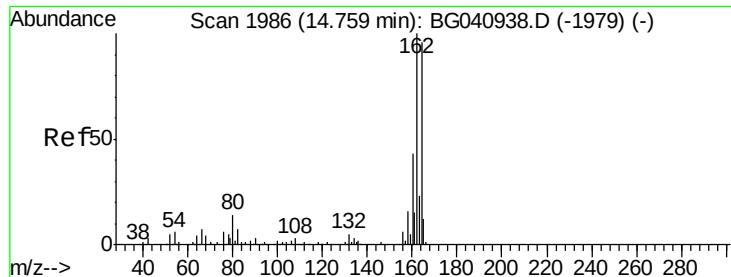
Tgt Ion: 82 Resp: 218044
 Ion Ratio Lower Upper
 82 100
 128 35.2 30.5 45.7
 54 55.1 44.6 66.8



#32
 Benzoic acid
 Concen: 8.141 ng
 RT: 10.15 min Scan# 1202
 Delta R.T. -0.08 min
 Lab File: BG041048.D
 Acq: 3 Jun 2019 23:51

Tgt Ion: 122 Resp: 67
 Ion Ratio Lower Upper
 122 100
 105 0.0 114.8 154.8#
 77 0.0 89.9 129.9#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.75 min Scan# 1985

Delta R.T. -0.01 min

Lab File: BG041048.D

Acq: 3 Jun 2019 23:51

Instrument :

BNA_G

ClientSampleId :

FK-SF-03-007-A

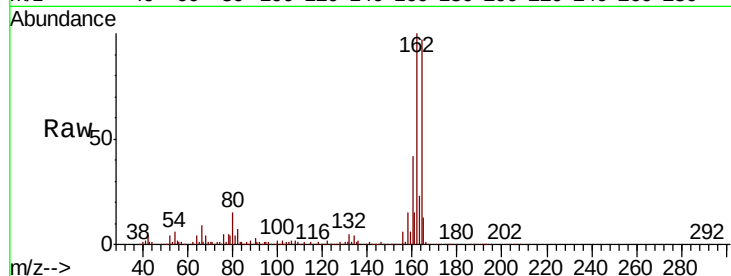
Tgt Ion:164 Resp: 259820

Ion Ratio Lower Upper

164 100

162 103.4 83.0 124.4

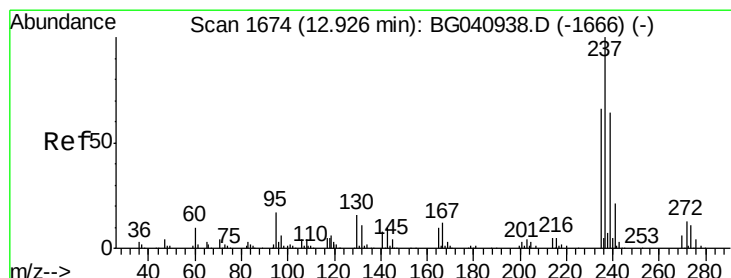
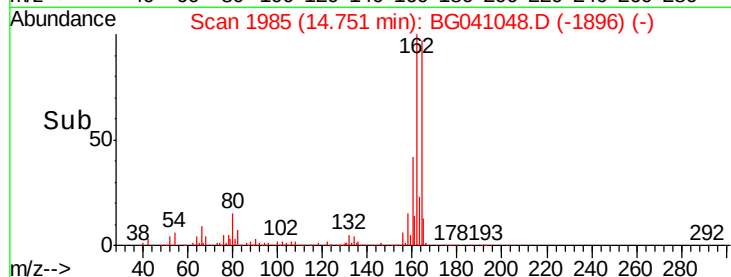
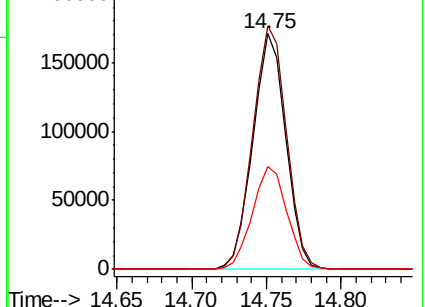
160 43.6 35.6 53.4



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

Hexachlorocyclopentadiene

Concen: 8.244 ng

RT: 13.09 min Scan# 1702

Delta R.T. 0.16 min

Lab File: BG041048.D

Acq: 3 Jun 2019 23:51

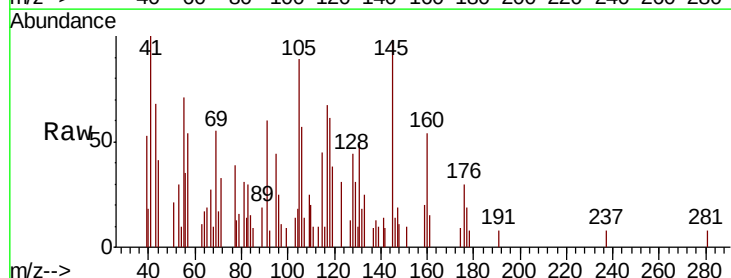
Tgt Ion:237 Resp: 55

Ion Ratio Lower Upper

237 100

235 0.0 45.5 85.5#

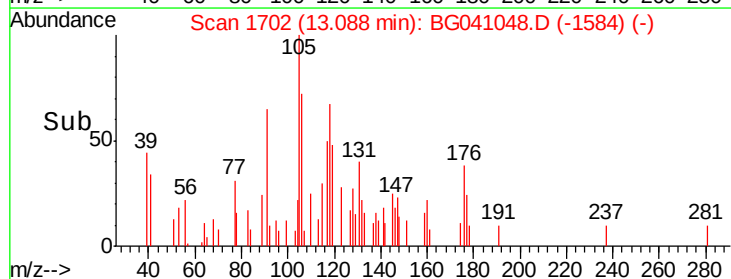
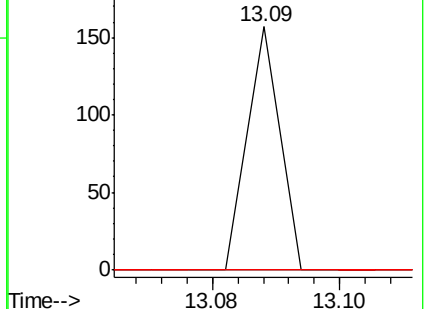
272 0.0 0.0 32.9

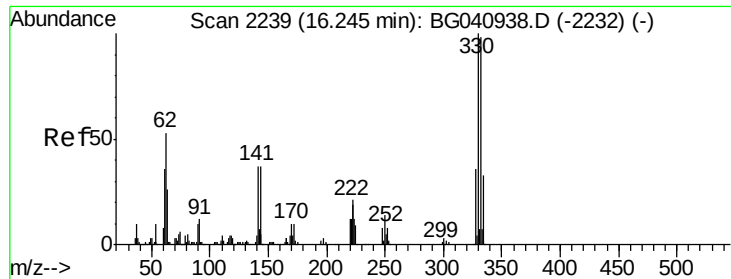


Abundance Ion 236.80 (236.50 to 237.50): E

Ion 234.90 (234.60 to 235.60): E

Ion 271.75 (271.45 to 272.45): E





#42

2,4,6-Tribromophenol

Concen: 3.528 ng

RT: 16.23 min Scan# 2237

Delta R.T. -0.01 min

Lab File: BG041048.D

Acq: 3 Jun 2019 23:51

Instrument :

BNA_G

ClientSampleId :

FK-SF-03-007-A

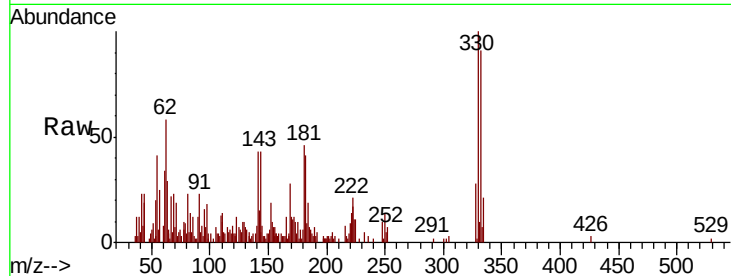
Tgt Ion:330 Resp: 13607

Ion Ratio Lower Upper

330 100

332 97.8 78.5 117.7

141 38.5 28.7 43.1

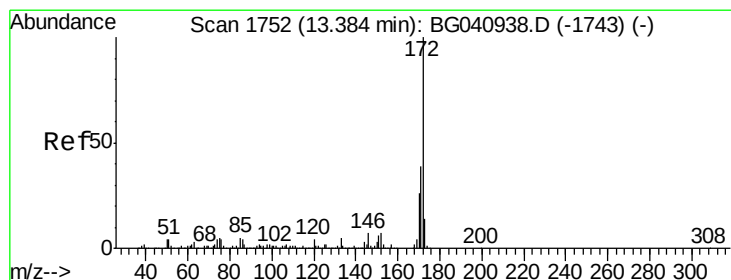
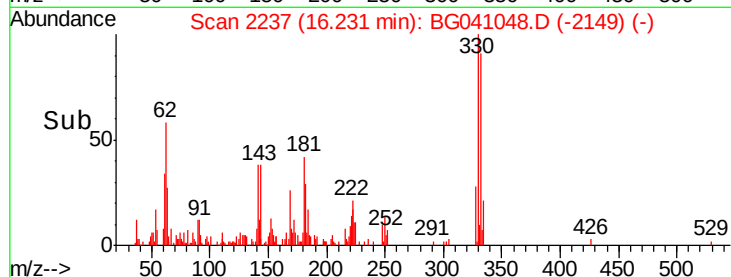
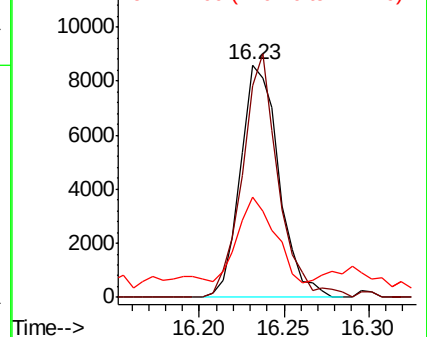


Abundance

Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45

2-Fluorobiphenyl

Concen: 23.625 ng

RT: 13.38 min Scan# 1751

Delta R.T. -0.01 min

Lab File: BG041048.D

Acq: 3 Jun 2019 23:51

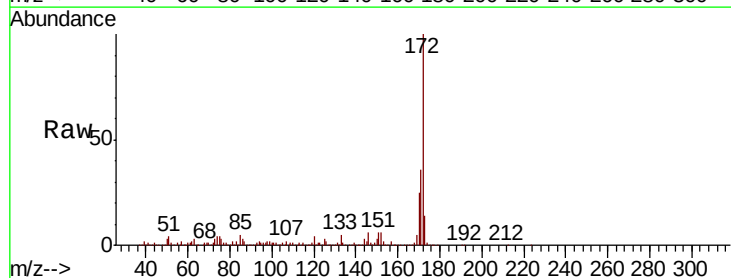
Tgt Ion:172 Resp: 426231

Ion Ratio Lower Upper

172 100

171 35.9 31.1 46.7

170 24.9 20.5 30.7

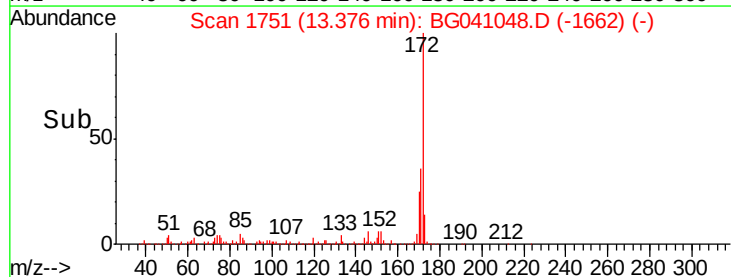
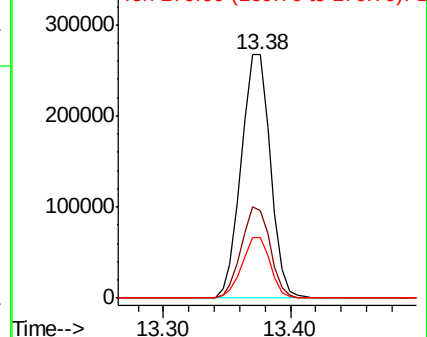


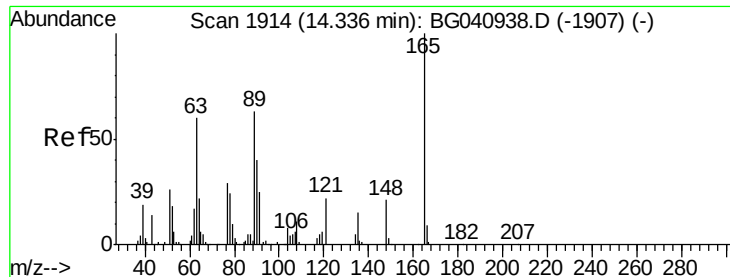
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#51

2,6-Dinitrotoluene

Concen: 7.362 ng

RT: 14.75 min Scan# 1985

Delta R.T. 0.42 min

Lab File: BG041048.D

Acq: 3 Jun 2019 23:51

Instrument :

BNA_G

ClientSampleId :

FK-SF-03-007-A

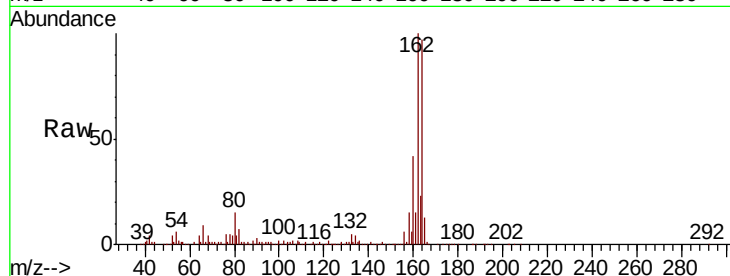
Tgt Ion:165 Resp: 34910

Ion Ratio Lower Upper

165 100

63 0.0 53.6 80.4#

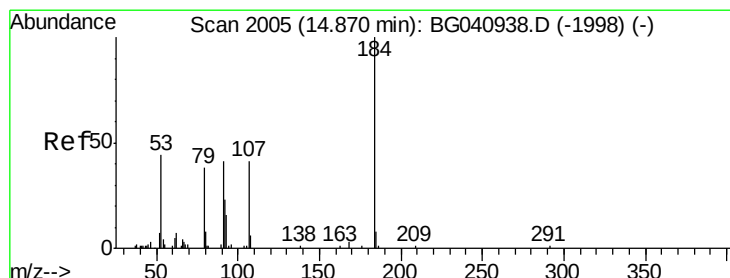
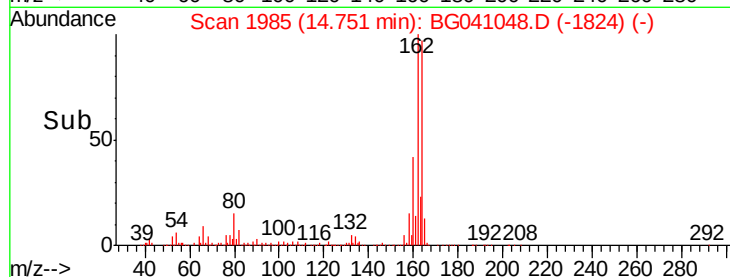
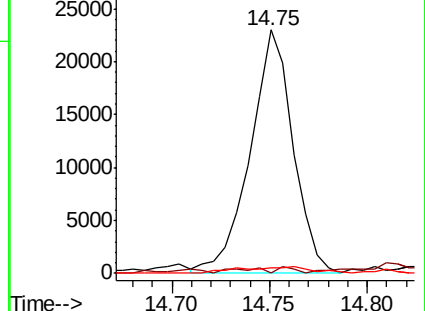
89 2.0 50.4 75.6#



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

Ion 89.00 (88.70 to 89.70): BGC



#54

2,4-Dinitrophenol

Concen: 8.279 ng

RT: 14.79 min Scan# 1991

Delta R.T. -0.08 min

Lab File: BG041048.D

Acq: 3 Jun 2019 23:51

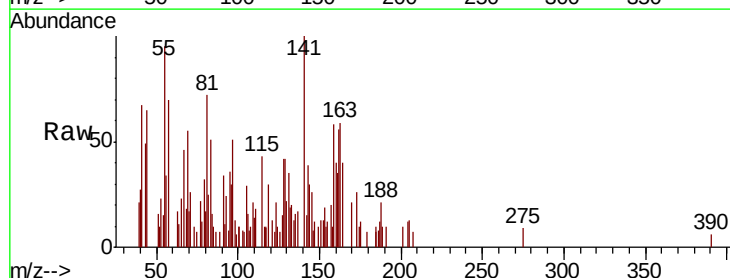
Tgt Ion:184 Resp: 56

Ion Ratio Lower Upper

184 100

63 249.1 49.8 74.6#

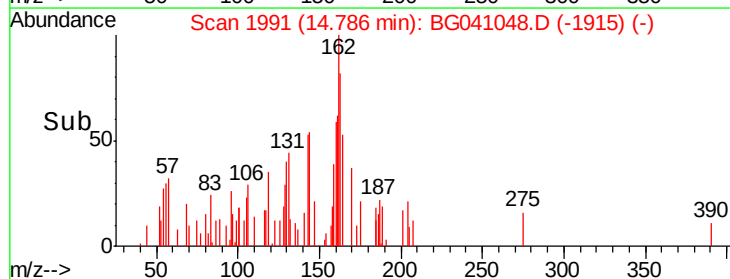
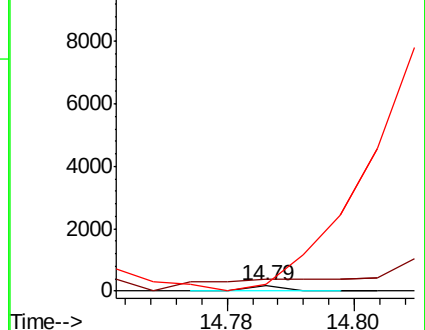
154 144.7 52.2 78.4#

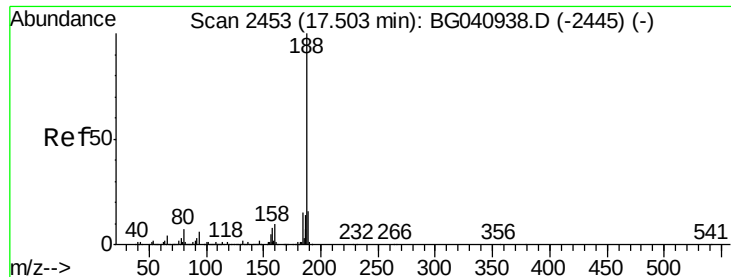


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BGC

Ion 154.00 (153.70 to 154.70): E





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.49 min Scan# 2452

Delta R.T. -0.01 min

Lab File: BG041048.D

Acq: 3 Jun 2019 23:51

Instrument :

BNA_G

ClientSampleId :

FK-SF-03-007-A

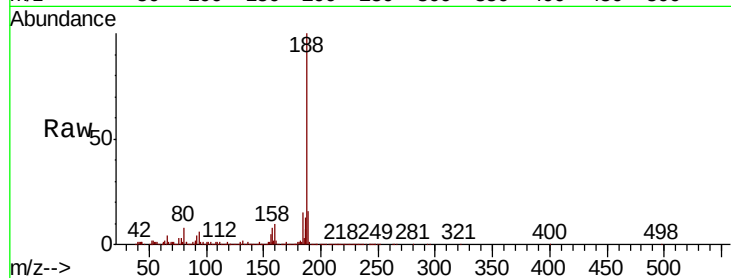
Tgt Ion:188 Resp: 577396

Ion Ratio Lower Upper

188 100

94 6.2 4.7 7.1

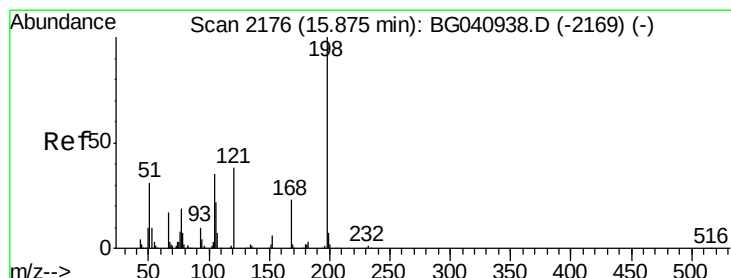
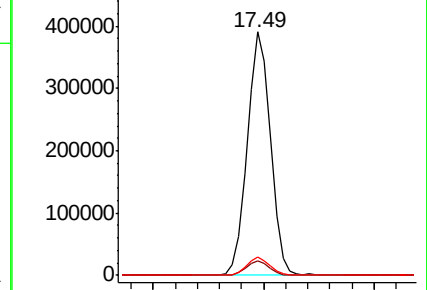
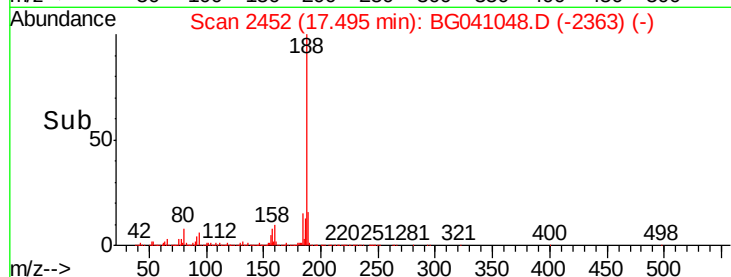
80 7.6 5.8 8.8



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC



#65

4,6-Dinitro-2-methylphenol

Concen: 8.609 ng

RT: 15.84 min Scan# 2171

Delta R.T. -0.03 min

Lab File: BG041048.D

Acq: 3 Jun 2019 23:51

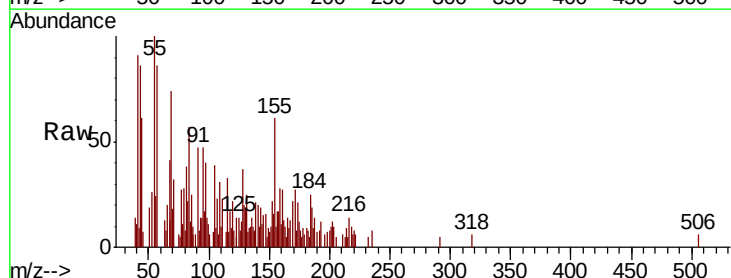
Tgt Ion:198 Resp: 72

Ion Ratio Lower Upper

198 100

51 284.9 21.6 61.6#

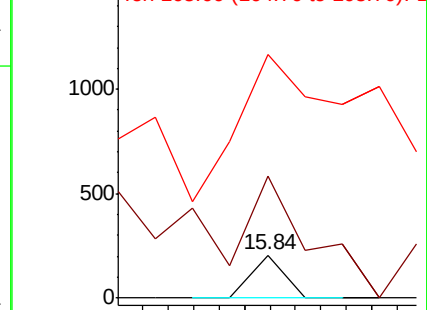
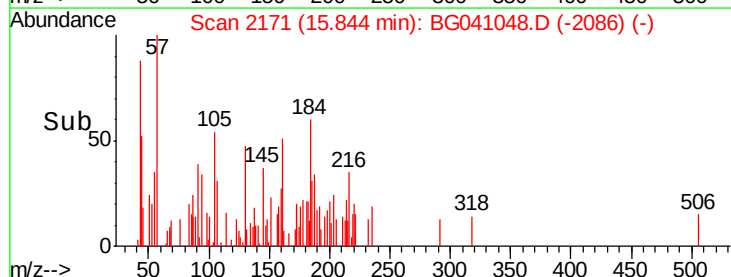
105 568.8 17.5 57.5#

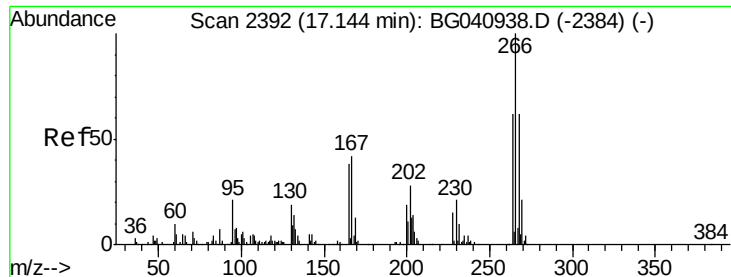


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BGC

Ion 105.00 (104.70 to 105.70): E

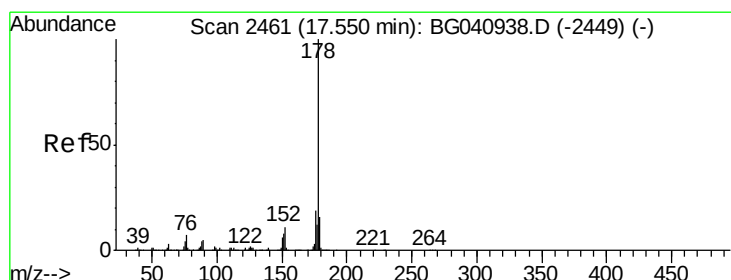
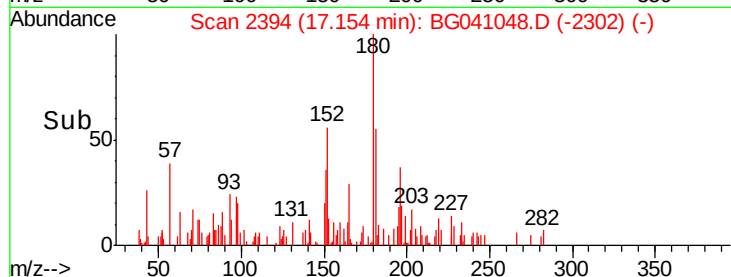
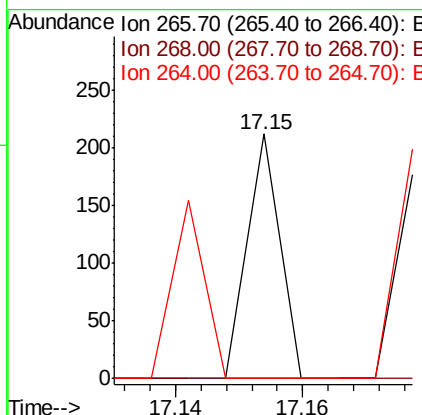
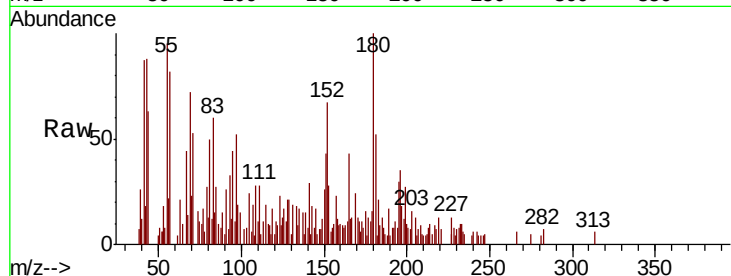




#70
 Pentachlorophenol
 Concen: 4.272 ng
 RT: 17.15 min Scan# 2394
 Delta R.T. 0.01 min
 Lab File: BG041048.D
 Acq: 3 Jun 2019 23:51

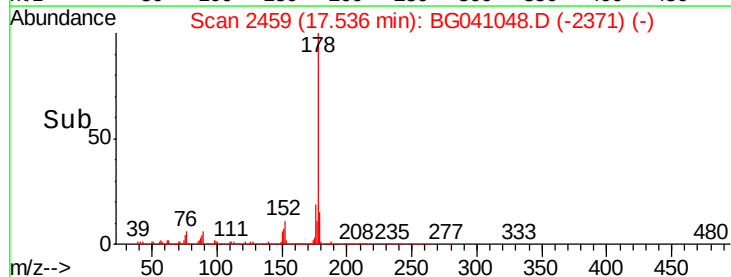
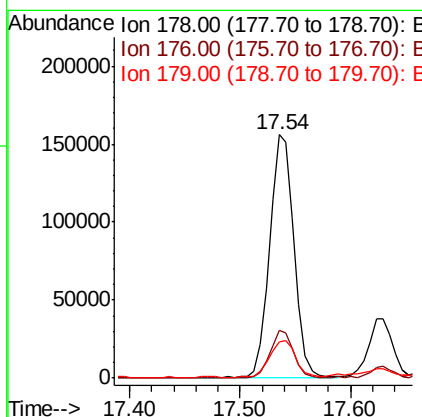
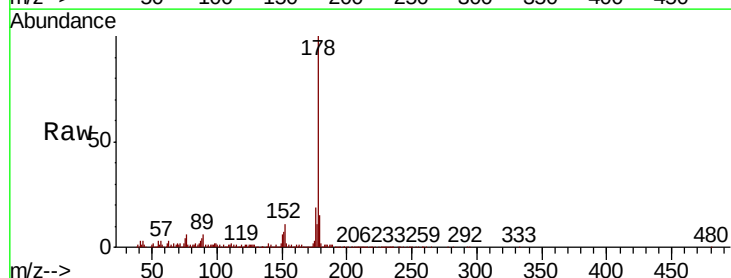
Instrument :
 BNA_G
 ClientSampleId :
 FK-SF-03-007-A

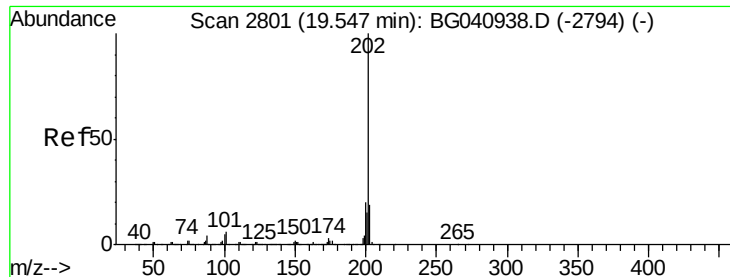
Tgt Ion: 266 Resp: 75
 Ion Ratio Lower Upper
 266 100
 268 0.0 53.1 79.7#
 264 0.0 49.9 74.9#



#71
 Phenanthrene
 Concen: 7.953 ng
 RT: 17.54 min Scan# 2459
 Delta R.T. -0.01 min
 Lab File: BG041048.D
 Acq: 3 Jun 2019 23:51

Tgt Ion: 178 Resp: 239201
 Ion Ratio Lower Upper
 178 100
 176 19.4 15.5 23.3
 179 15.1 12.7 19.1





#75

Fluoranthene

Concen: 8.115 ng

RT: 19.54 min Scan# 2800

Delta R.T. -0.01 min

Lab File: BG041048.D

Acq: 3 Jun 2019 23:51

Instrument :

BNA_G

ClientSampleId :

FK-SF-03-007-A

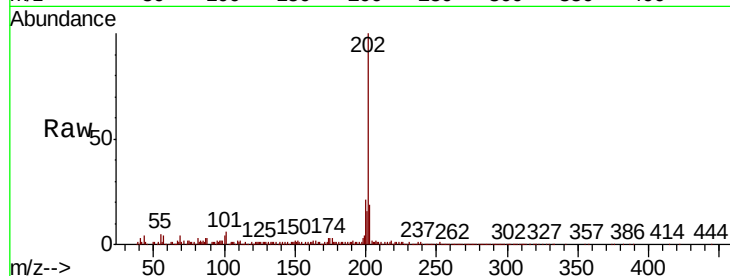
Tgt Ion:202 Resp: 301478

Ion Ratio Lower Upper

202 100

101 6.3 0.0 26.2

203 18.6 0.0 38.7

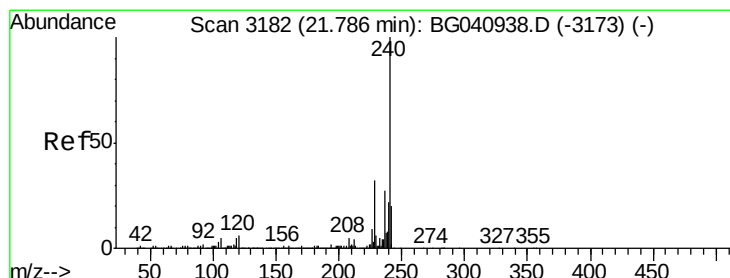
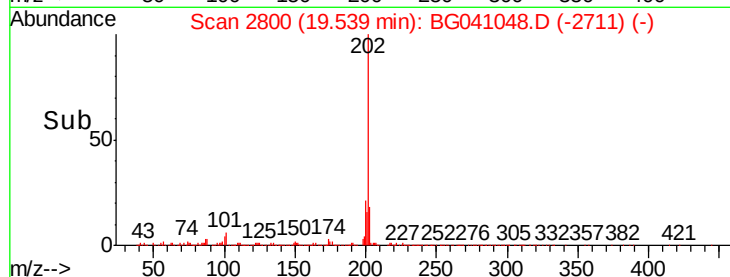
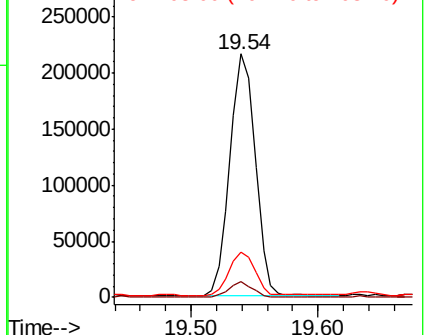


Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.78 min Scan# 3181

Delta R.T. -0.01 min

Lab File: BG041048.D

Acq: 3 Jun 2019 23:51

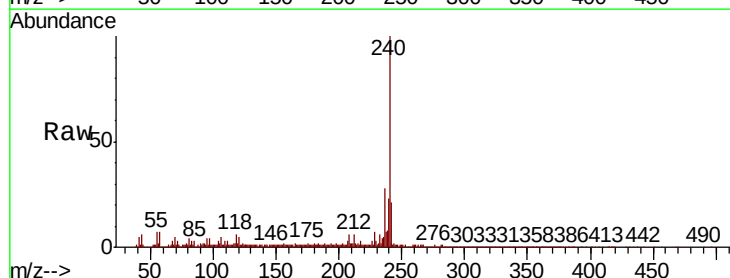
Tgt Ion:240 Resp: 596518

Ion Ratio Lower Upper

240 100

120 5.3 4.5 6.7

236 28.0 21.3 31.9

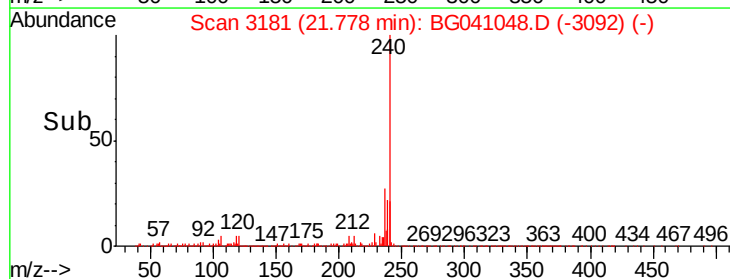
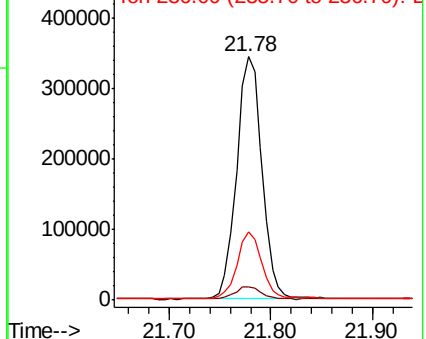


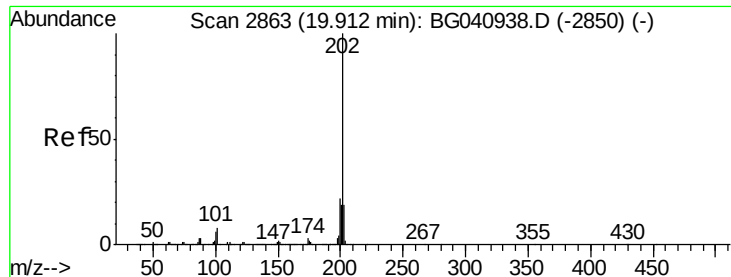
Abundance

Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pyrene

Concen: 7.402 ng

RT: 19.90 min Scan# 2862

Delta R.T. -0.01 min

Lab File: BG041048.D

Acq: 3 Jun 2019 23:51

Instrument :

BNA_G

ClientSampleId :

FK-SF-03-007-A

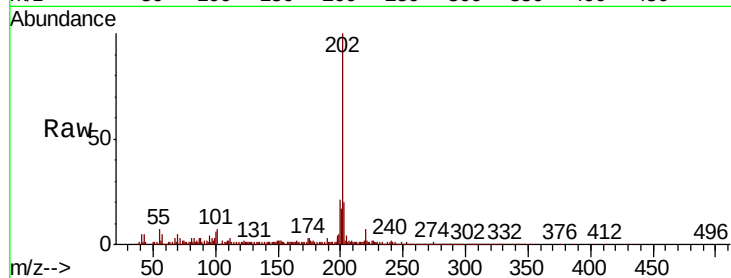
Tgt Ion:202 Resp: 287014

Ion Ratio Lower Upper

202 100

200 20.5 17.5 26.3

203 20.4 15.6 23.4

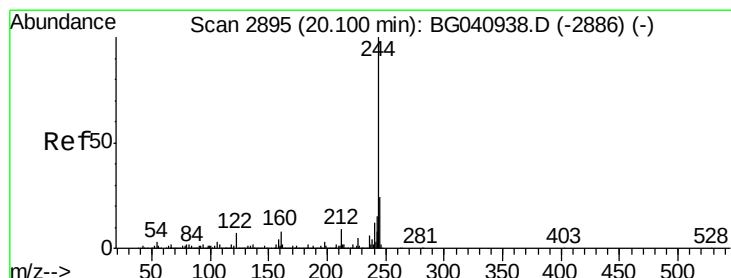
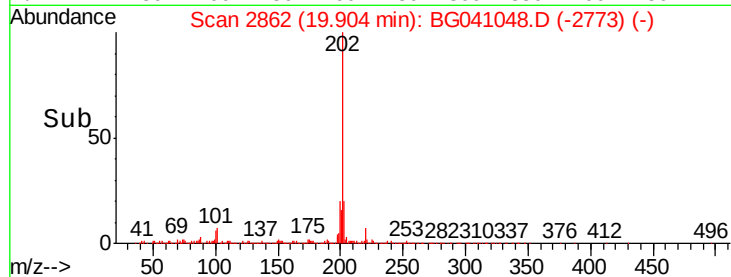
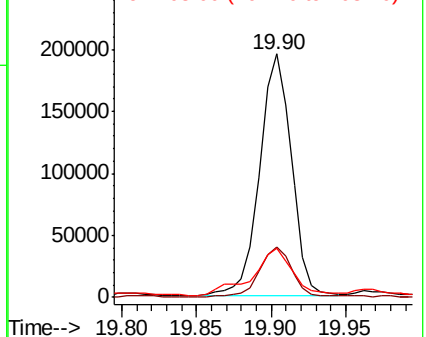


Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 21.556 ng

RT: 20.09 min Scan# 2894

Delta R.T. -0.01 min

Lab File: BG041048.D

Acq: 3 Jun 2019 23:51

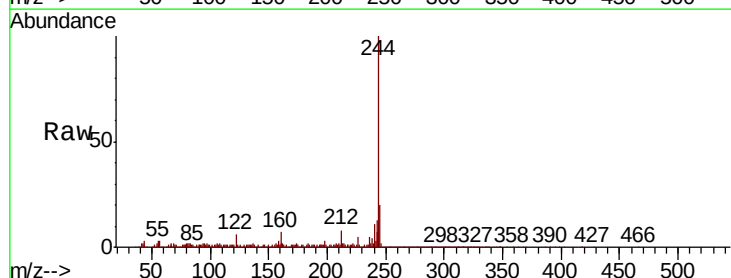
Tgt Ion:244 Resp: 605875

Ion Ratio Lower Upper

244 100

212 7.6 7.0 10.4

122 5.5 5.4 8.0

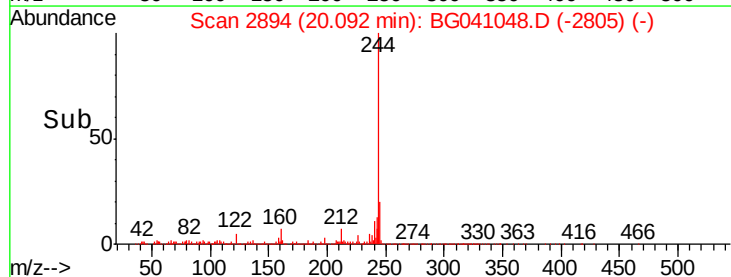
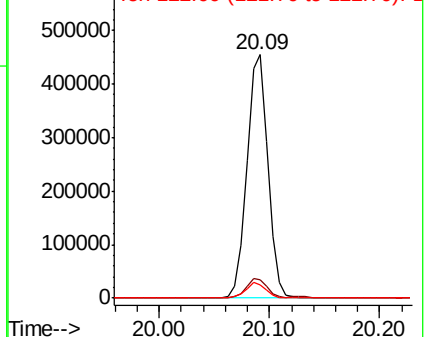


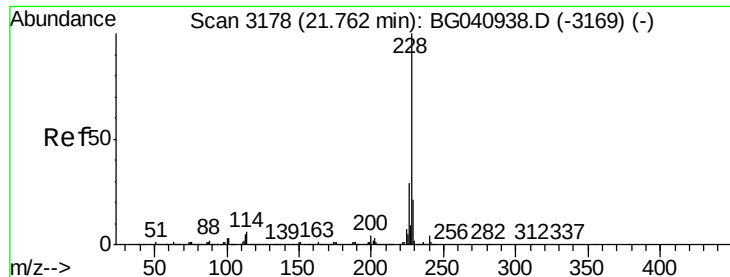
Abundance

Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#81

Benzo(a)anthracene

Concen: 3.424 ng

RT: 21.76 min Scan# 3178

Delta R.T. -0.00 min

Lab File: BG041048.D

Acq: 3 Jun 2019 23:51

Instrument :

BNA_G

ClientSampleId :

FK-SF-03-007-A

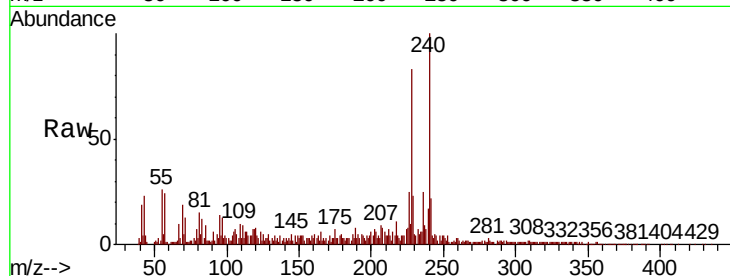
Tgt Ion:228 Resp: 135970

Ion Ratio Lower Upper

228 100

226 30.3 23.5 35.3

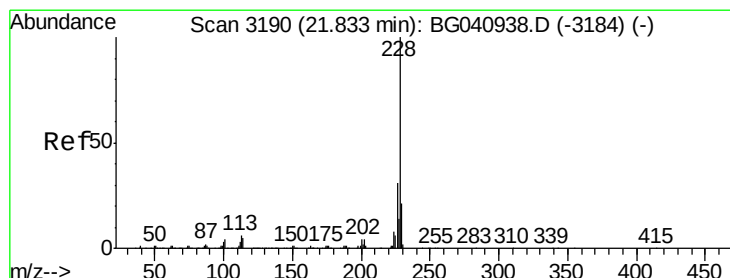
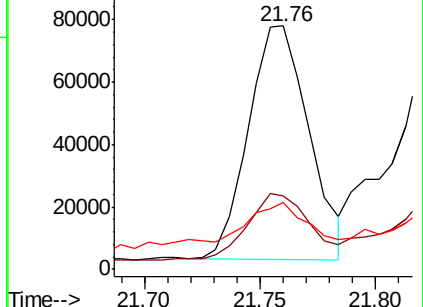
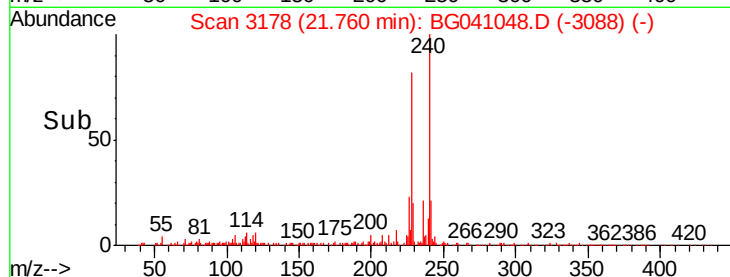
229 27.3 16.7 25.1#



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83

Chrysene

Concen: 4.084 ng

RT: 21.82 min Scan# 3189

Delta R.T. -0.01 min

Lab File: BG041048.D

Acq: 3 Jun 2019 23:51

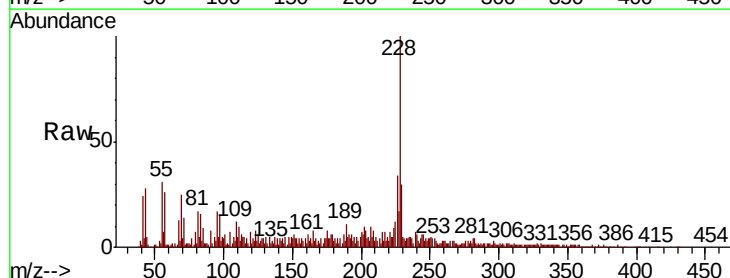
Tgt Ion:228 Resp: 155187

Ion Ratio Lower Upper

228 100

226 34.2 24.6 37.0

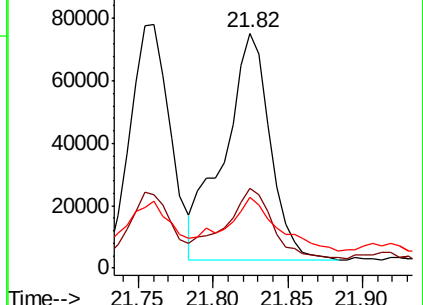
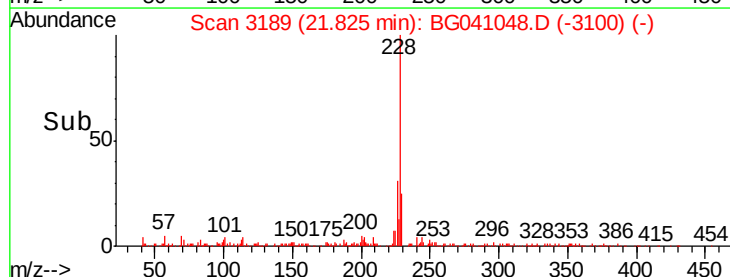
229 30.1 16.6 24.8#

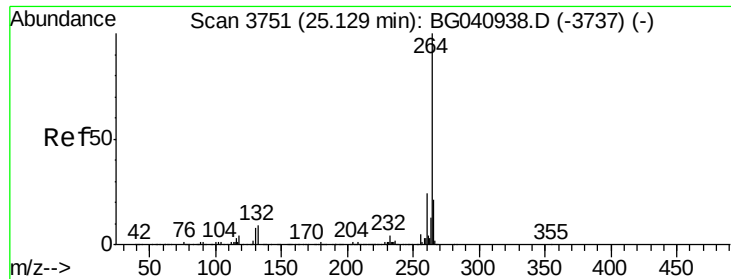


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#87

Perylene-d12

Concen: 20.000 ng

RT: 25.13 min Scan# 3752

Delta R.T. 0.00 min

Lab File: BG041048.D

Acq: 3 Jun 2019 23:51

Instrument :

BNA_G

ClientSampleId :

FK-SF-03-007-A

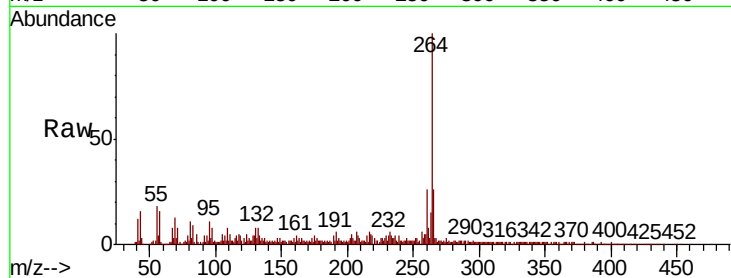
Tgt Ion:264 Resp: 560187

Ion Ratio Lower Upper

264 100

260 25.9 19.0 28.4

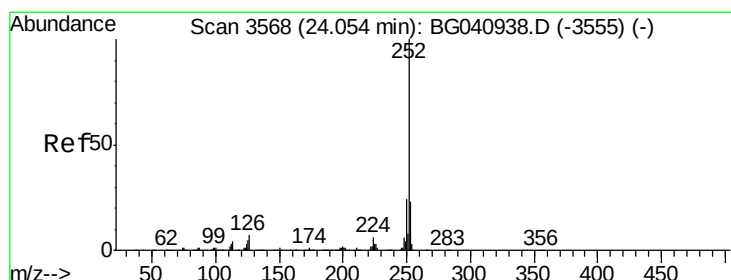
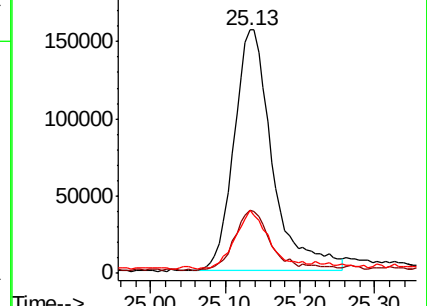
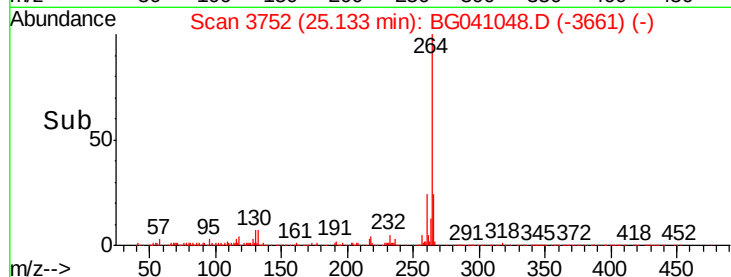
265 26.1 17.0 25.4#



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#88

Benzo(b)fluoranthene

Concen: 4.108 ng

RT: 24.05 min Scan# 3568

Delta R.T. -0.00 min

Lab File: BG041048.D

Acq: 3 Jun 2019 23:51

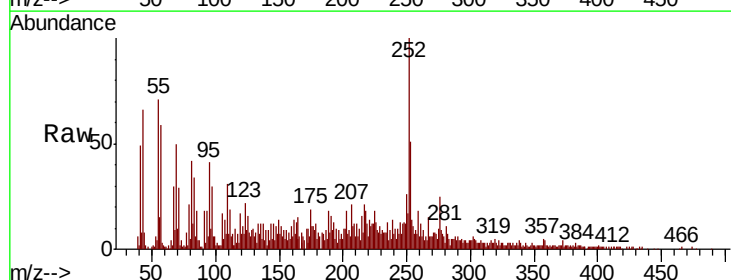
Tgt Ion:252 Resp: 139562

Ion Ratio Lower Upper

252 100

253 51.4 18.4 27.6#

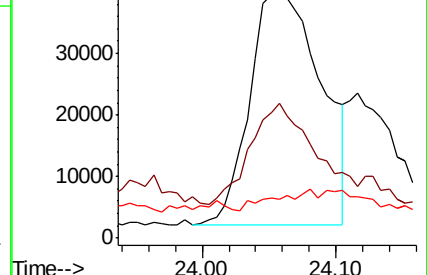
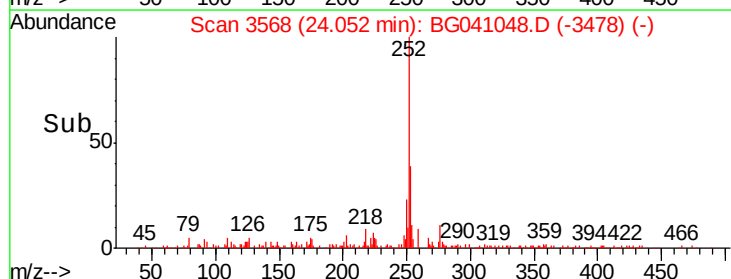
125 16.5 4.3 6.5#

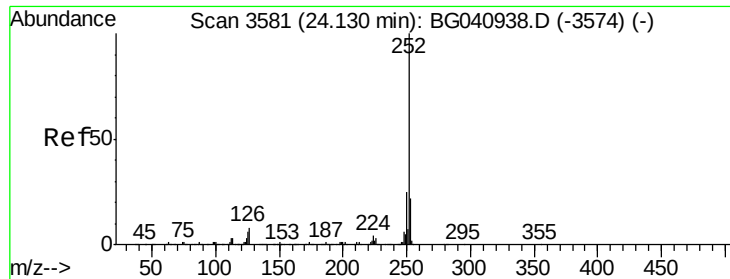


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

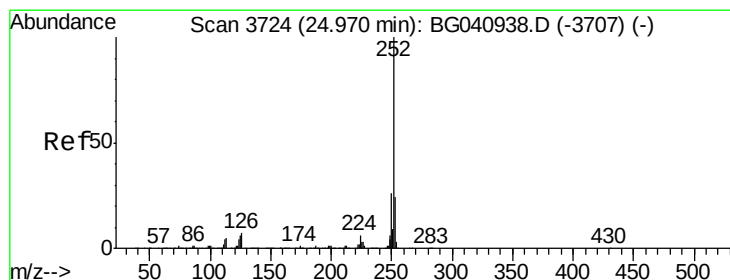
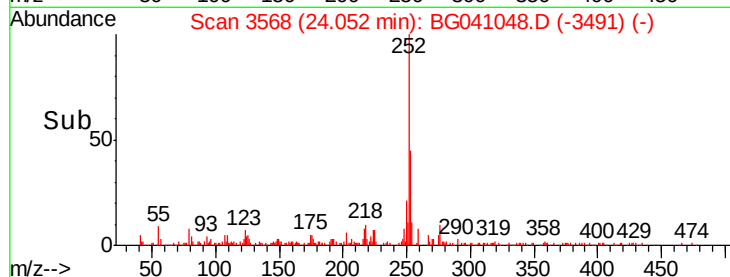
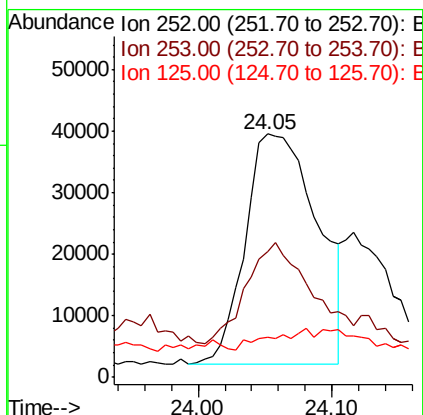
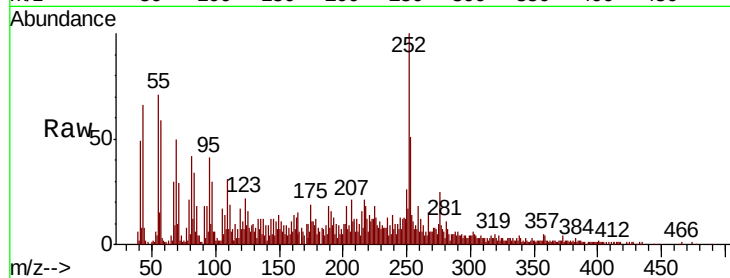




#89
Benzo(k)fluoranthene
Concen: 4.151 ng
RT: 24.05 min Scan# 3568
Delta R.T. -0.08 min
Lab File: BG041048.D
Acq: 3 Jun 2019 23:51

Instrument :
BNA_G
ClientSampleId :
FK-SF-03-007-A

Tgt Ion:252 Resp: 139562
Ion Ratio Lower Upper
252 100
253 51.4 17.8 26.6#
125 16.5 4.7 7.1#



#90
Benzo(a)pyrene
Concen: 3.062 ng
RT: 24.97 min Scan# 3724
Delta R.T. -0.00 min
Lab File: BG041048.D
Acq: 3 Jun 2019 23:51

Tgt Ion:252 Resp: 99260
Ion Ratio Lower Upper
252 100
253 36.1 19.5 29.3#
125 23.6 5.1 7.7#

