

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG041416\
 Data File : BG021686.D
 Acq On : 15 Apr 2016 13:59
 Operator : UM/SJ
 Sample : H2412-10
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SP-7W(0-2)C

Quant Time: Apr 15 16:28:12 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG041316.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 13 15:48:13 2016
 Response via : Initial Calibration

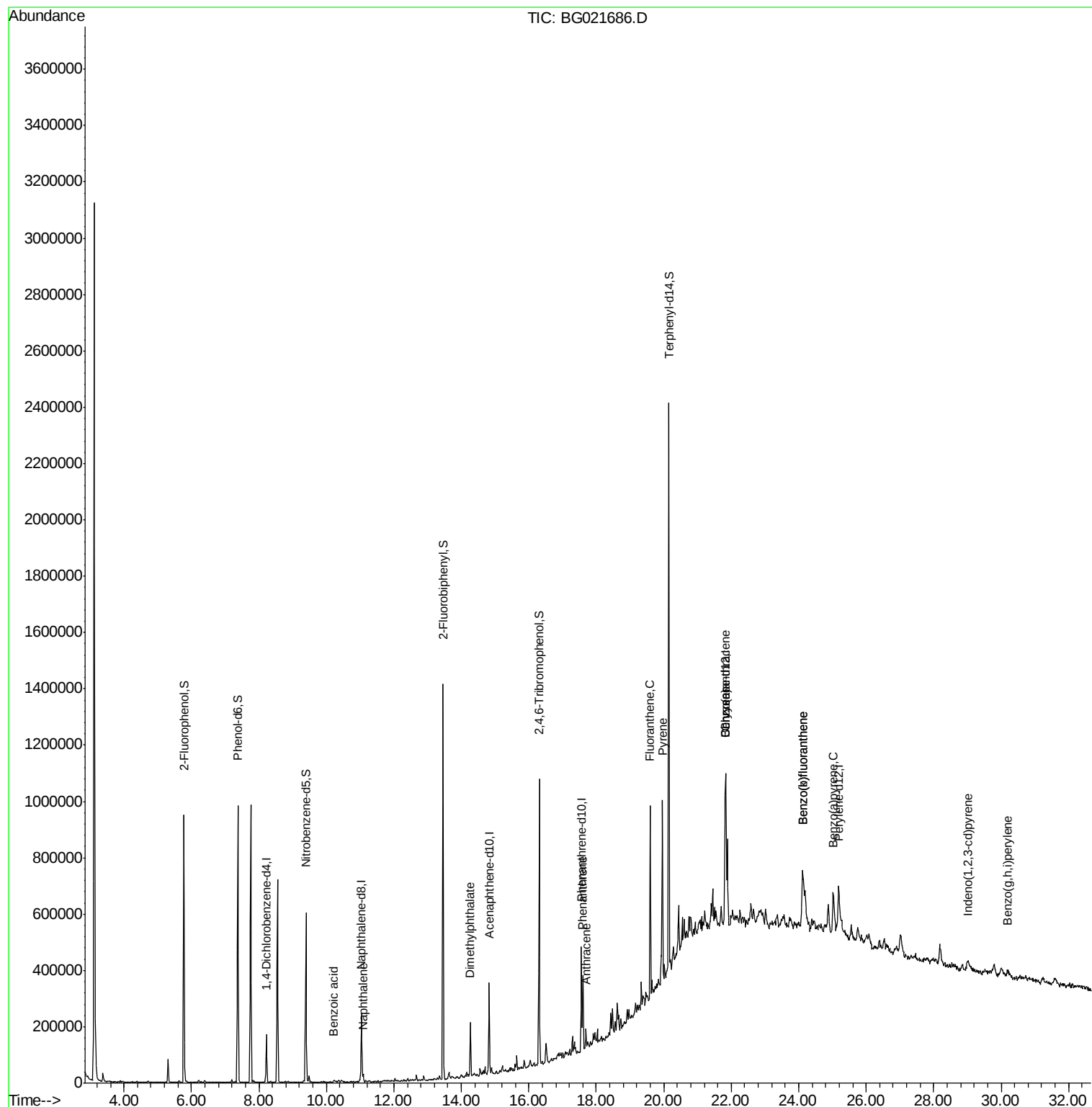
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.22	152	48396	20.00	ng	0.00
21) Naphthalene-d8	11.04	136	203461	20.00	ng	0.00
38) Acenaphthene-d10	14.83	164	111049	20.00	ng	0.00
63) Phenanthrene-d10	17.56	188	228479	20.00	ng	0.00
75) Chrysene-d12	21.84	240	258282	20.00	ng	0.00
86) Perylene-d12	25.19	264	210058	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.77	112	431579	148.50	ng	0.01
7) Phenol-d6	7.38	99	603939	139.12	ng	0.02
23) Nitrobenzene-d5	9.39	82	383994	97.01	ng	0.00
41) 2,4,6-Tribromophenol	16.31	330	180426	150.75	ng	0.00
44) 2-Fluorobiphenyl	13.46	172	736889	97.22	ng	0.00
78) Terphenyl-d14	20.15	244	864373	83.51	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	11.09	128	21935	2.01	ng	# 93
32) Benzoic acid	10.23	122	1181	4.92	ng	96
49) Dimethylphthalate	14.27	163	117960	12.29	ng	# 98
70) Phenanthrene	17.61	178	175414	13.93	ng	99
71) Anthracene	17.69	178	48585	3.80	ng	97
74) Fluoranthene	19.60	202	412142	27.41	ng	98
77) Pyrene	19.96	202	410925	27.59	ng	99
80) Benzo(a)anthracene	21.82	228	251746	16.94	ng	98
82) Chrysene	21.82	228	251746	17.63	ng	94
85) Indeno(1,2,3-cd)pyrene	29.02	276	73392	4.32	ng	# 54
87) Benzo(b)fluoranthene	24.12	252	274909	22.55	ng	95
88) Benzo(k)fluoranthene	24.12	252	274909	23.07	ng	# 95
89) Benzo(a)pyrene	25.03	252	190040	16.09	ng	# 93
91) Benzo(g,h,i)perylene	30.19	276	29282	2.52	ng	91

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 8.22 min Scan# 916

Delta R.T. 0.00 min

Lab File: BG021686.D

Acq: 15 Apr 2016 13:59

Instrument :

BNA_G

ClientSampleId :

SP-7W(0-2)C

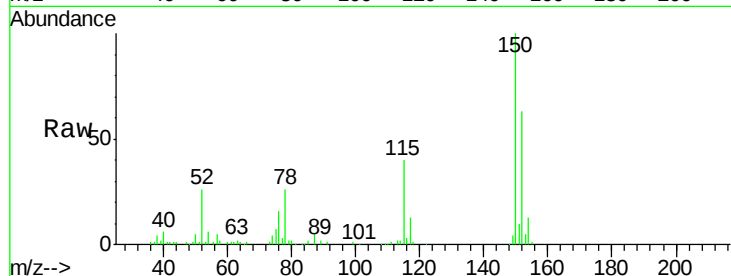
Tgt Ion:152 Resp: 48396

Ion Ratio Lower Upper

152 100

150 159.6 130.1 195.1

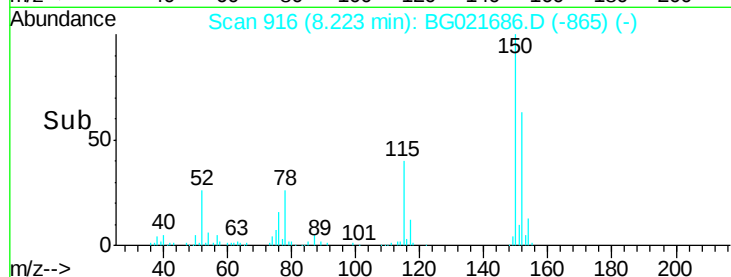
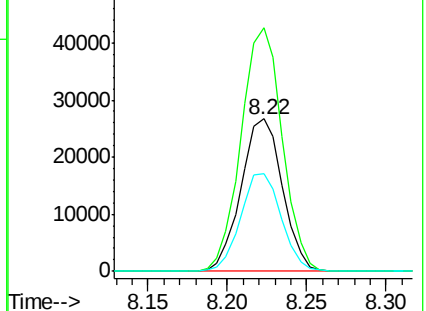
115 63.9 62.2 93.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 148.50 ng

RT: 5.77 min Scan# 499

Delta R.T. 0.01 min

Lab File: BG021686.D

Acq: 15 Apr 2016 13:59

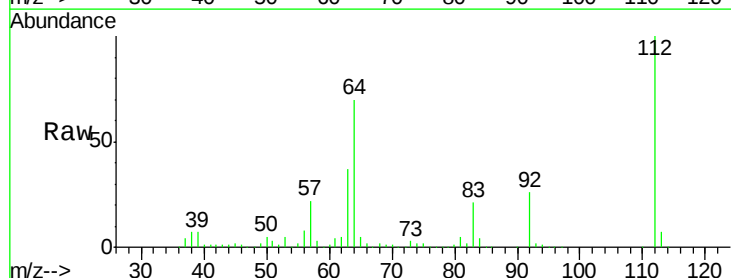
Tgt Ion:112 Resp: 431579

Ion Ratio Lower Upper

112 100

64 70.2 51.1 76.7

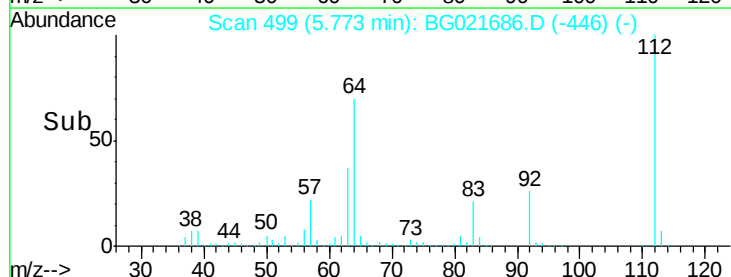
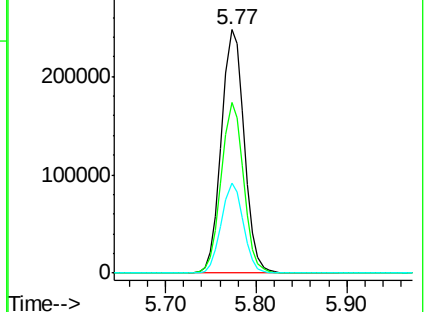
63 36.8 24.6 37.0

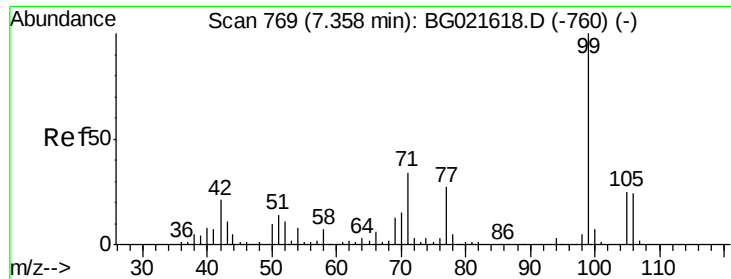


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 139.12 ng

RT: 7.38 min Scan# 772

Delta R.T. 0.02 min

Lab File: BG021686.D

Acq: 15 Apr 2016 13:59

Instrument :

BNA_G

ClientSampleId :

SP-7W(0-2)C

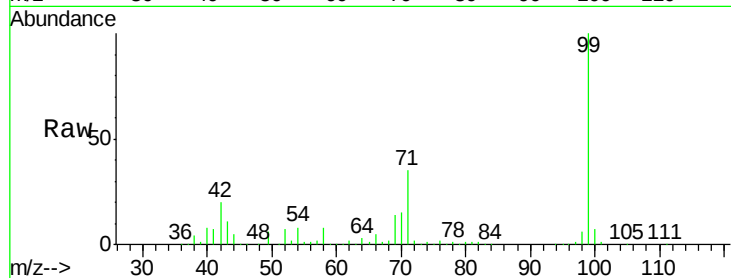
Tgt Ion: 99 Resp: 603939

Ion Ratio Lower Upper

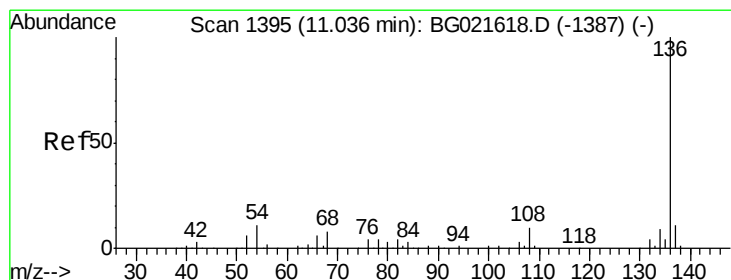
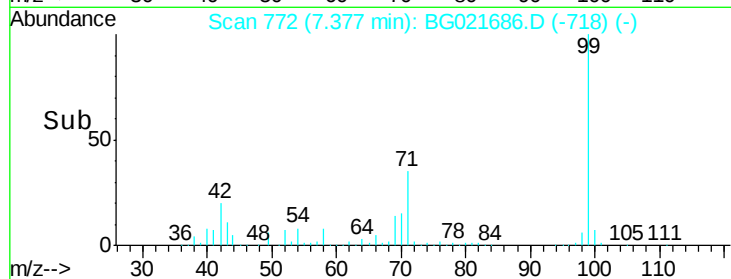
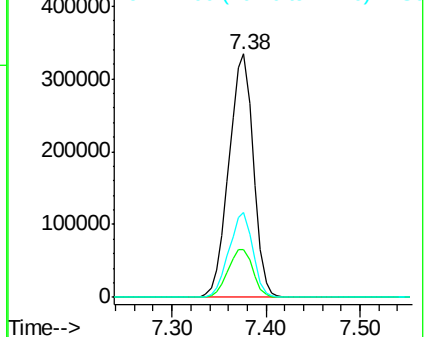
99 100

42 19.8 16.4 24.6

71 34.9 25.0 37.4



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: 20.00 ng

RT: 11.04 min Scan# 1395

Delta R.T. 0.00 min

Lab File: BG021686.D

Acq: 15 Apr 2016 13:59

Tgt Ion: 136 Resp: 203461

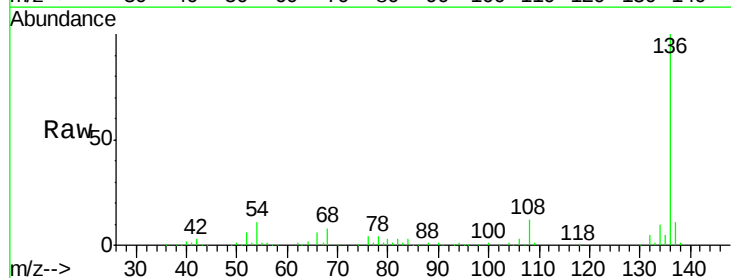
Ion Ratio Lower Upper

136 100

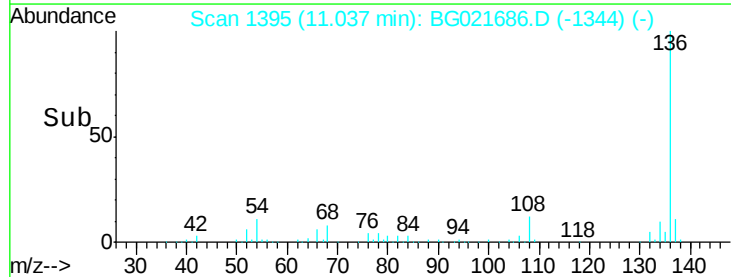
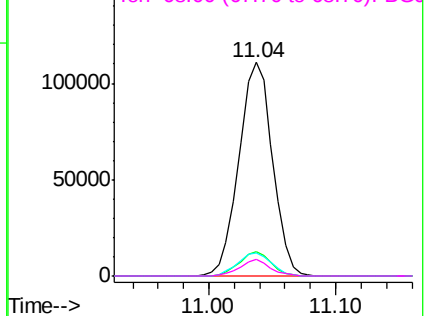
137 11.5 9.0 13.4

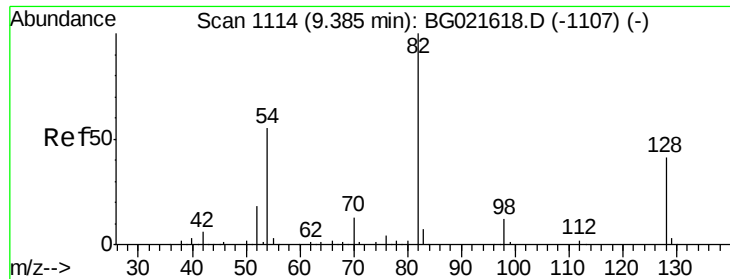
54 10.9 9.6 14.4

68 7.6 6.4 9.6



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

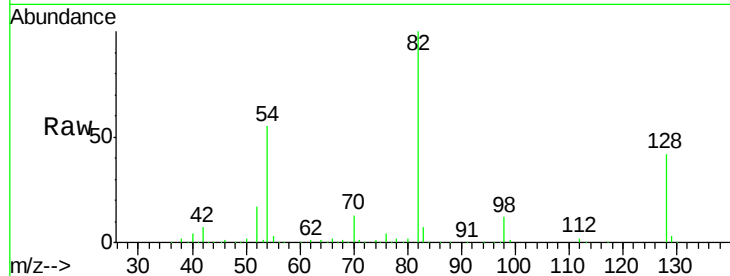




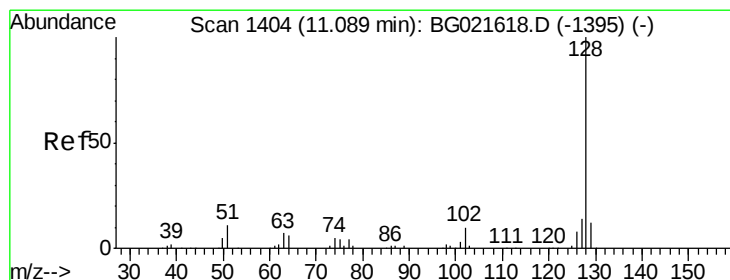
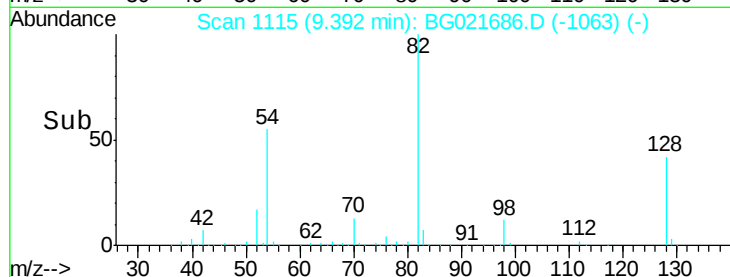
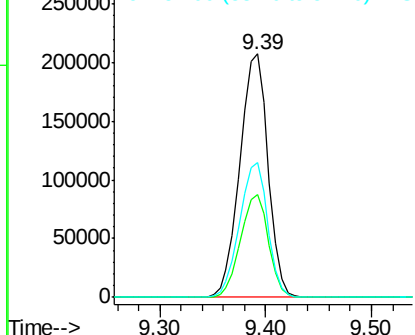
#23
 Nitrobenzene-d5
 Concen: 97.01 ng
 RT: 9.39 min Scan# 1115
 Delta R.T. 0.01 min
 Lab File: BG021686.D
 Acq: 15 Apr 2016 13:59

Instrument :
 BNA_G
 ClientSampled :
 SP-7W(0-2)C

Tgt Ion: 82 Resp: 383994
 Ion Ratio Lower Upper
 82 100
 128 42.4 33.4 50.0
 54 55.2 46.1 69.1

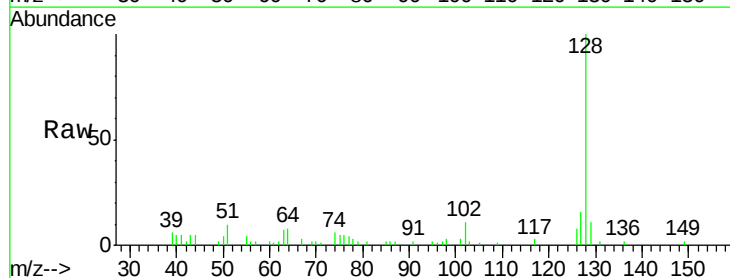


Abundance Ion 82.00 (81.70 to 82.70): BGC
 Ion 128.00 (127.70 to 128.70): BGC
 Ion 54.00 (53.70 to 54.70): BGC

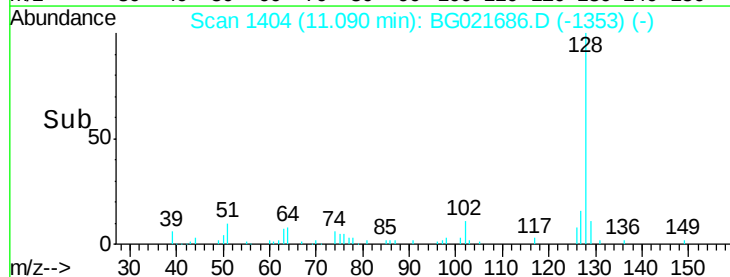
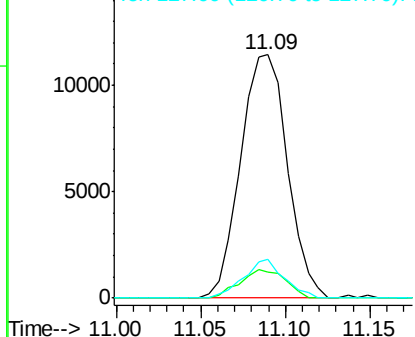


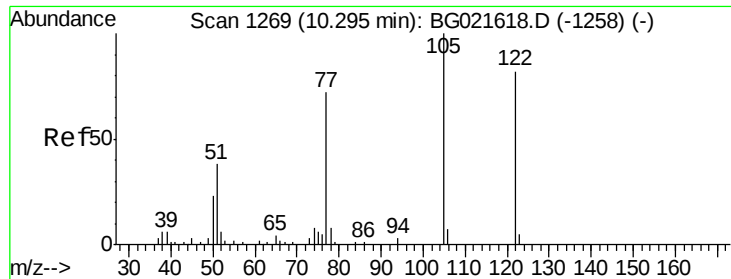
#31
 Naphthalene
 Concen: 2.01 ng
 RT: 11.09 min Scan# 1404
 Delta R.T. 0.00 min
 Lab File: BG021686.D
 Acq: 15 Apr 2016 13:59

Tgt Ion: 128 Resp: 21935
 Ion Ratio Lower Upper
 128 100
 129 10.8 7.0 10.6#
 127 15.8 10.1 15.1#



Abundance Ion 128.00 (127.70 to 128.70): BGC
 Ion 129.00 (128.70 to 129.70): BGC
 Ion 127.00 (126.70 to 127.70): BGC

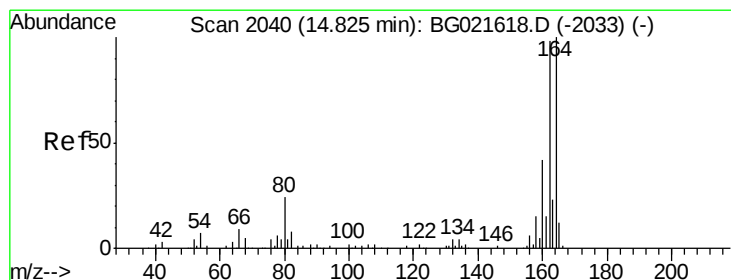
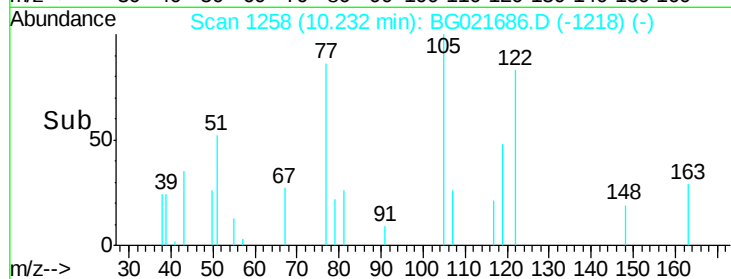
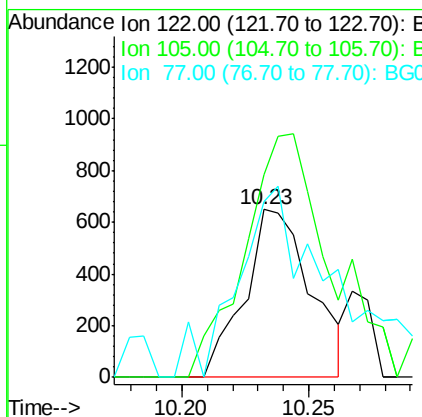
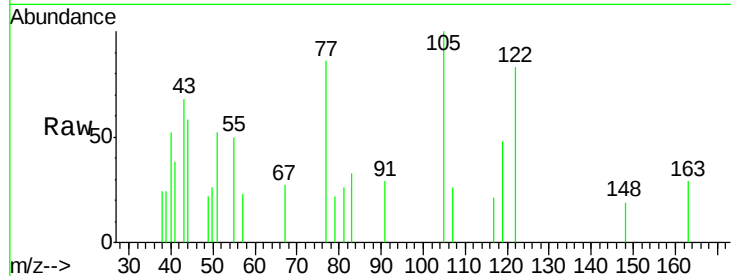




#32
Benzoic acid
Concen: 4.92 ng
RT: 10.23 min Scan# 1258
Delta R.T. -0.06 min
Lab File: BG021686.D
Acq: 15 Apr 2016 13:59

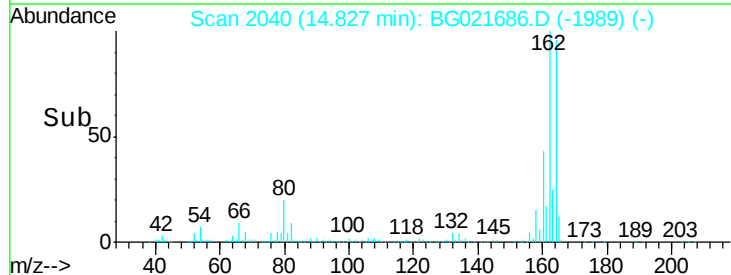
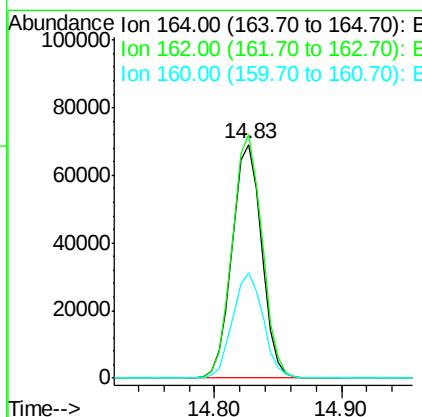
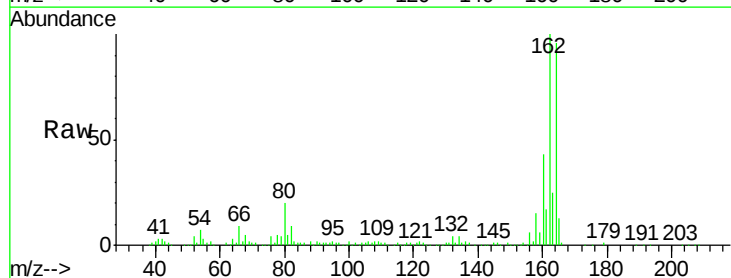
Instrument :
BNA_G
ClientSampleId :
SP-7W(0-2)C

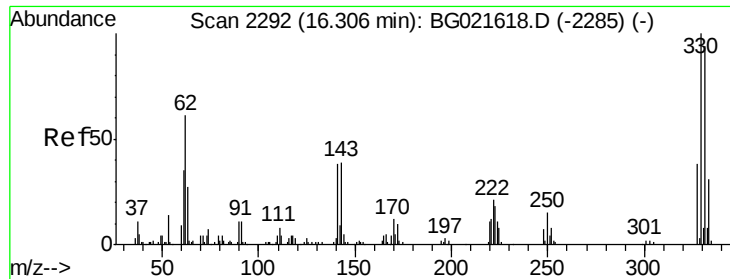
Tgt Ion:122 Resp: 1181
Ion Ratio Lower Upper
122 100
105 120.9 104.5 144.5
77 104.3 79.9 119.9



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 14.83 min Scan# 2040
Delta R.T. 0.00 min
Lab File: BG021686.D
Acq: 15 Apr 2016 13:59

Tgt Ion:164 Resp: 111049
Ion Ratio Lower Upper
164 100
162 104.2 78.0 117.0
160 44.9 32.9 49.3

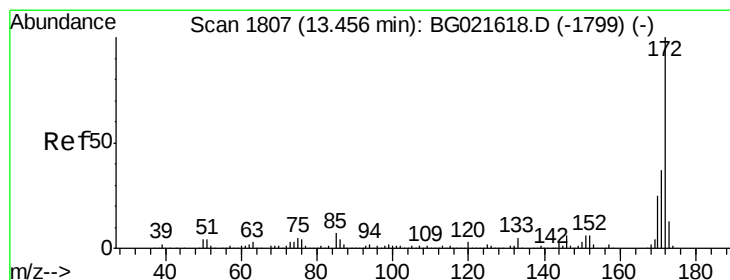
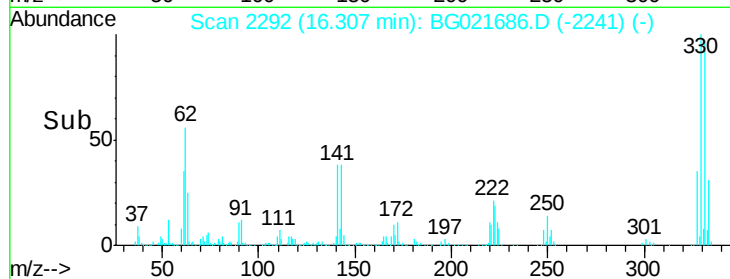
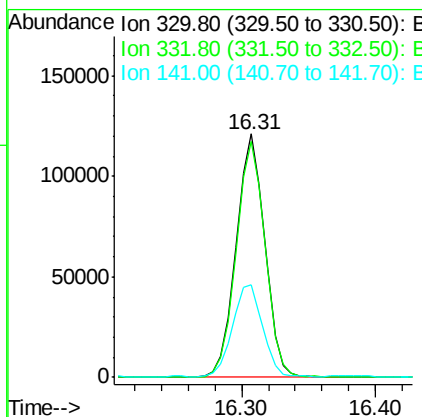
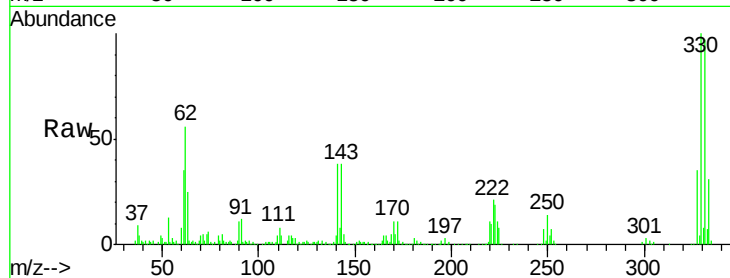




#41
 2,4,6-Tribromophenol
 Concen: 150.75 ng
 RT: 16.31 min Scan# 2292
 Delta R.T. 0.00 min
 Lab File: BG021686.D
 Acq: 15 Apr 2016 13:59

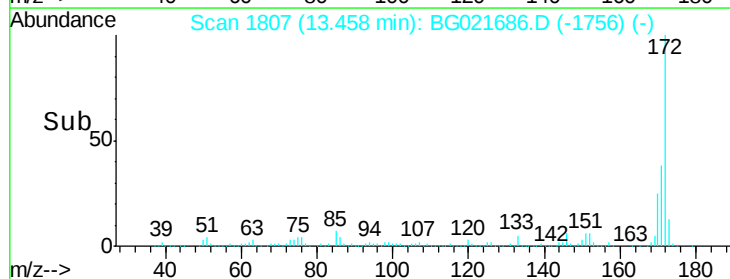
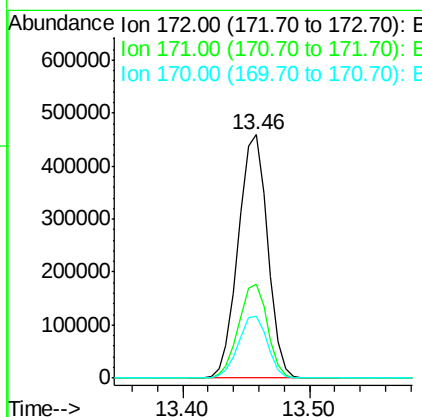
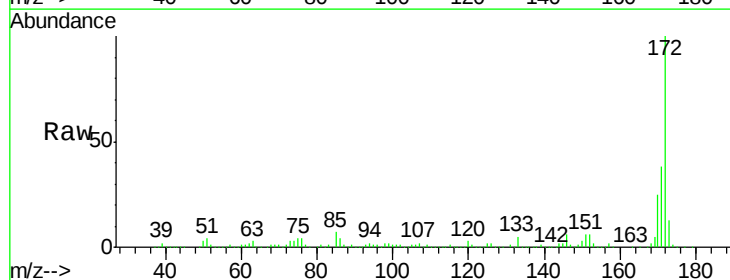
Instrument :
 BNA_G
 ClientSampleId :
 SP-7W(0-2)C

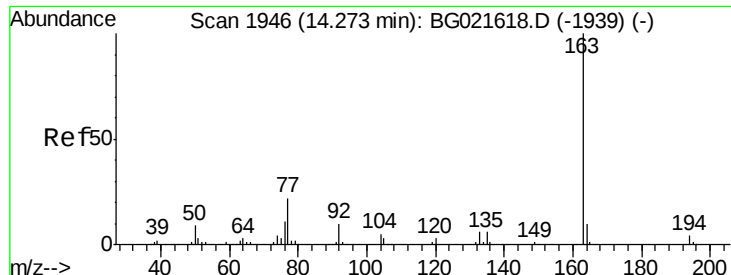
Tgt Ion:330 Resp: 180426
 Ion Ratio Lower Upper
 330 100
 332 97.5 78.0 117.0
 141 39.5 33.8 50.8



#44
 2-Fluorobiphenyl
 Concen: 97.22 ng
 RT: 13.46 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: BG021686.D
 Acq: 15 Apr 2016 13:59

Tgt Ion:172 Resp: 736889
 Ion Ratio Lower Upper
 172 100
 171 38.4 27.8 41.6
 170 25.4 19.6 29.4





#49

Dimethylphthalate

Concen: 12.29 ng

RT: 14.27 min Scan# 1945

Delta R.T. -0.00 min

Lab File: BG021686.D

Acq: 15 Apr 2016 13:59

Instrument :

BNA_G

ClientSampleId :

SP-7W(0-2)C

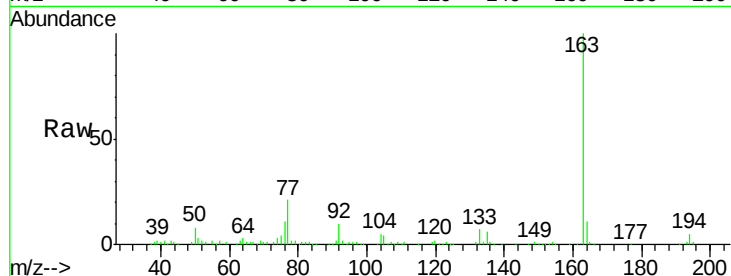
Tgt Ion:163 Resp: 117960

Ion Ratio Lower Upper

163 100

194 4.8 3.0 4.6#

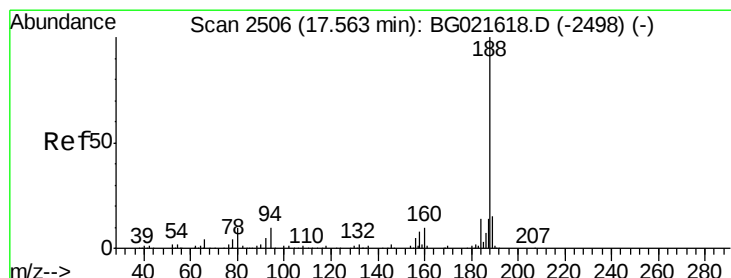
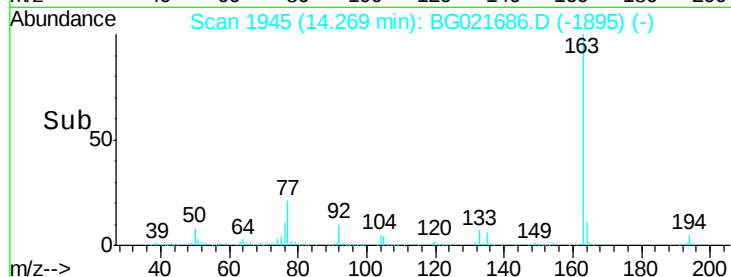
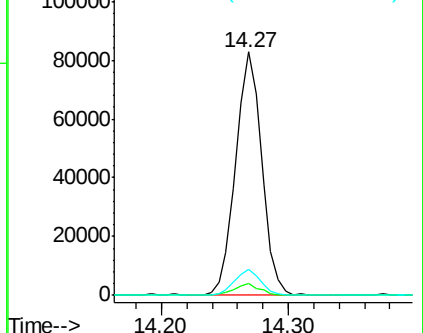
164 10.6 8.1 12.1



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 17.56 min Scan# 2505

Delta R.T. -0.00 min

Lab File: BG021686.D

Acq: 15 Apr 2016 13:59

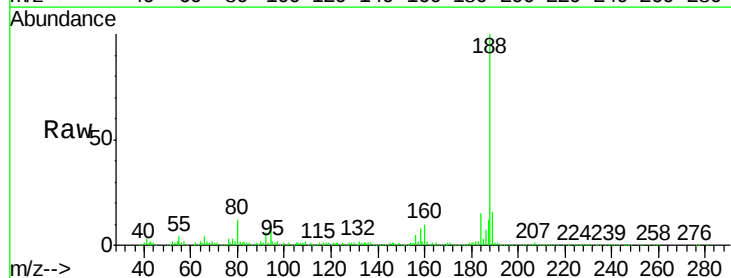
Tgt Ion:188 Resp: 228479

Ion Ratio Lower Upper

188 100

94 9.1 7.5 11.3

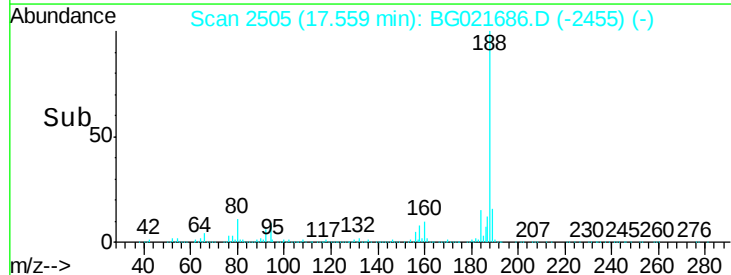
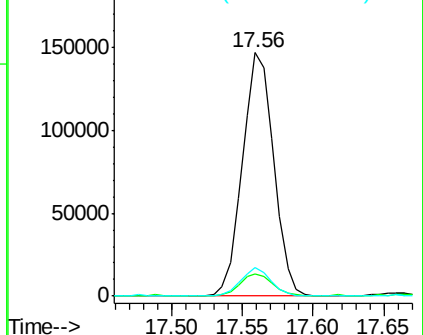
80 11.6 8.6 13.0

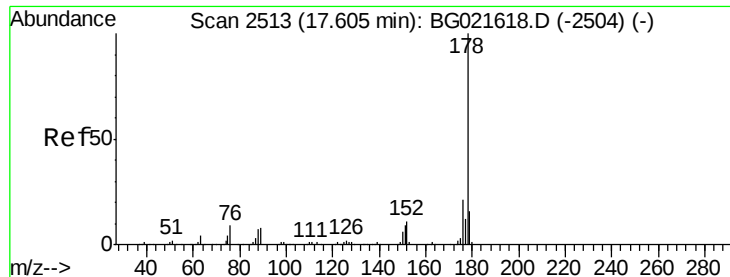


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC





#70

Phenanthrene

Concen: 13.93 ng

RT: 17.61 min Scan# 2513

Delta R.T. 0.00 min

Lab File: BG021686.D

Acq: 15 Apr 2016 13:59

Instrument :

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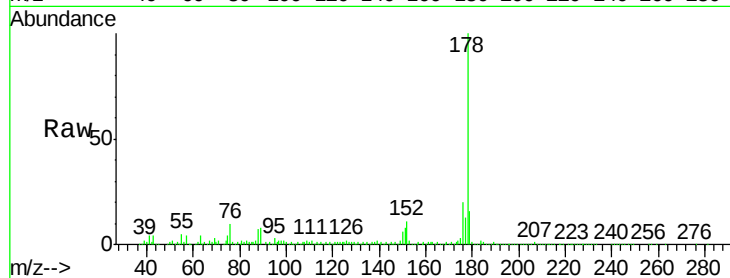
Tgt Ion:178 Resp: 175414

Ion Ratio Lower Upper

178 100

176 20.0 16.2 24.4

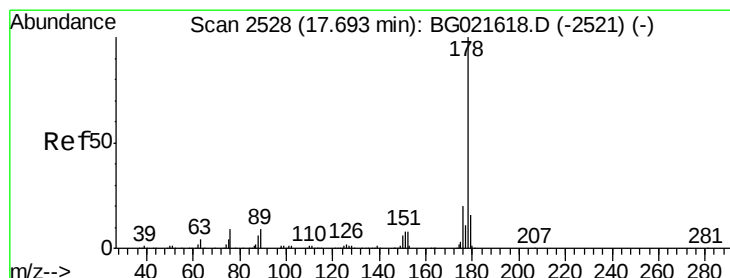
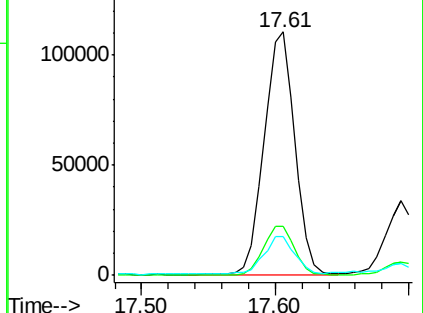
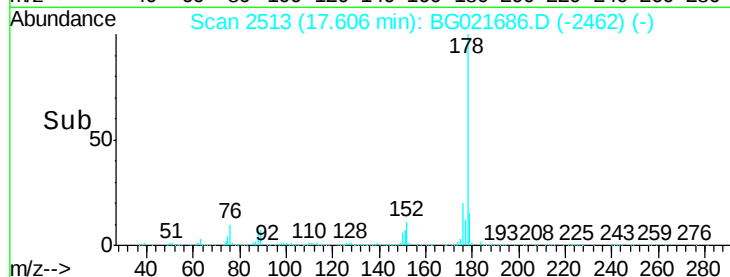
179 15.8 12.0 18.0



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 3.80 ng

RT: 17.69 min Scan# 2528

Delta R.T. 0.00 min

Lab File: BG021686.D

Acq: 15 Apr 2016 13:59

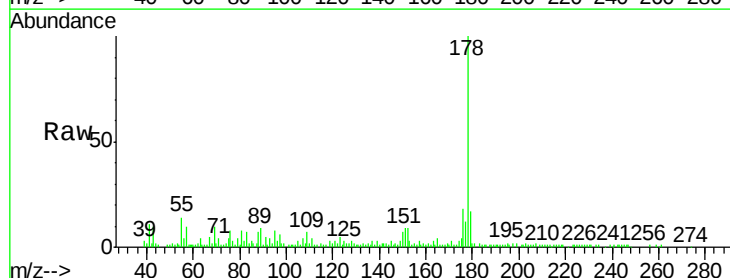
Tgt Ion:178 Resp: 48585

Ion Ratio Lower Upper

178 100

176 17.7 15.0 22.4

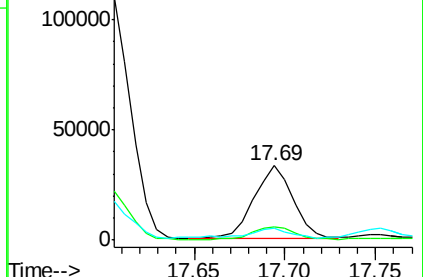
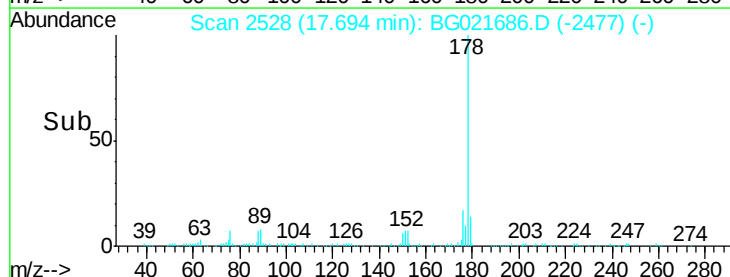
179 16.5 12.2 18.4

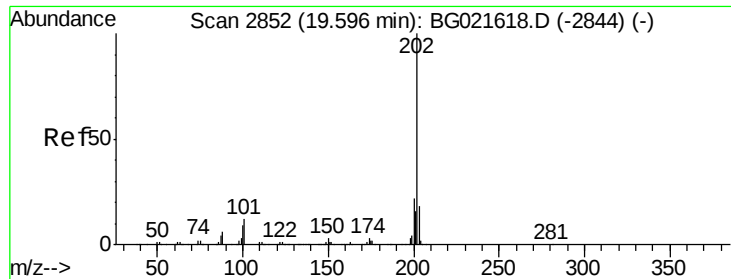


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 27.41 ng

RT: 19.60 min Scan# 2852

Delta R.T. 0.00 min

Lab File: BG021686.D

Acq: 15 Apr 2016 13:59

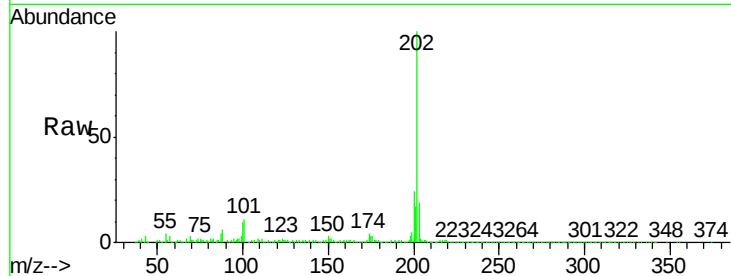
Instrument :

BNA_G

ClientSampleId :

SP-7W(0-2)C

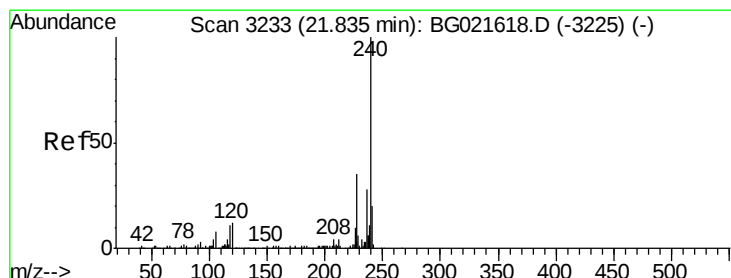
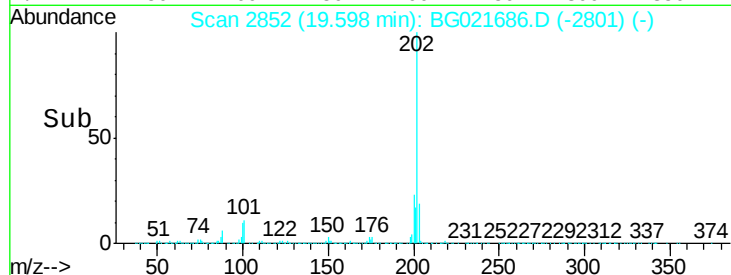
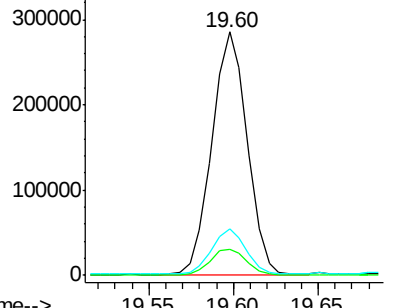
Tgt Ion:	202	Resp:	412142
Ion	Ratio	Lower	Upper
202	100		
101	10.9	0.0	31.0
203	19.0	0.0	37.9



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



#75

Chrysene-d12

Concen: 20.00 ng

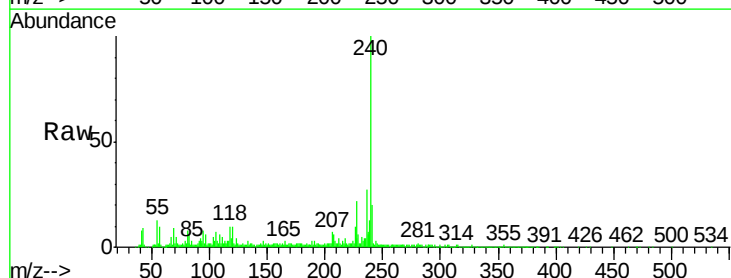
RT: 21.84 min Scan# 3234

Delta R.T. 0.01 min

Lab File: BG021686.D

Acq: 15 Apr 2016 13:59

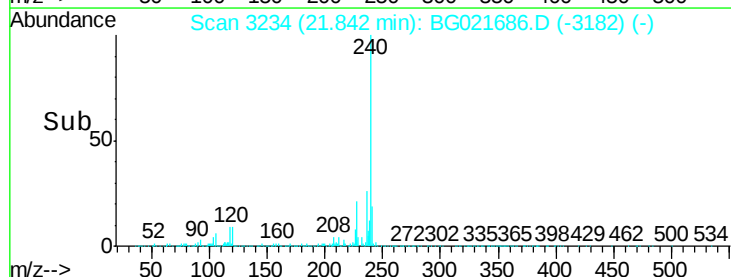
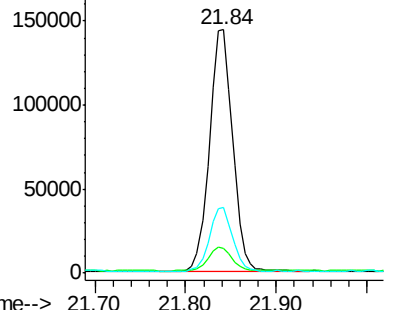
Tgt Ion:	240	Resp:	258282
Ion	Ratio	Lower	Upper
240	100		
120	10.0	8.4	12.6
236	26.8	19.6	29.4

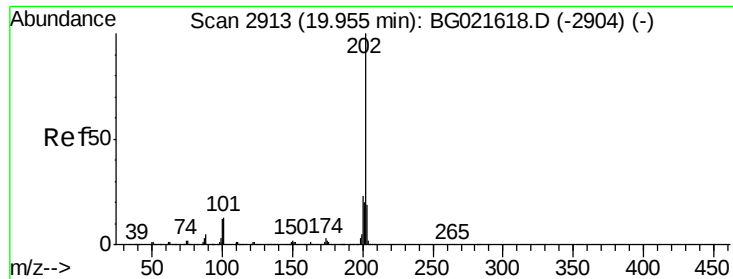


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

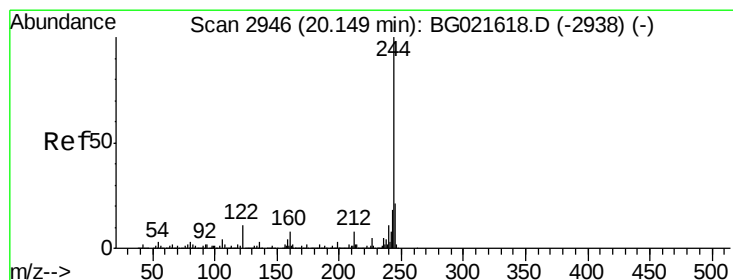
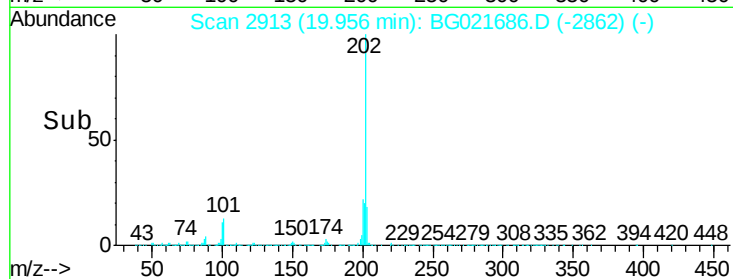
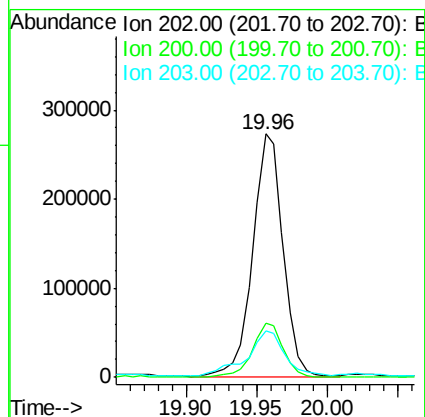
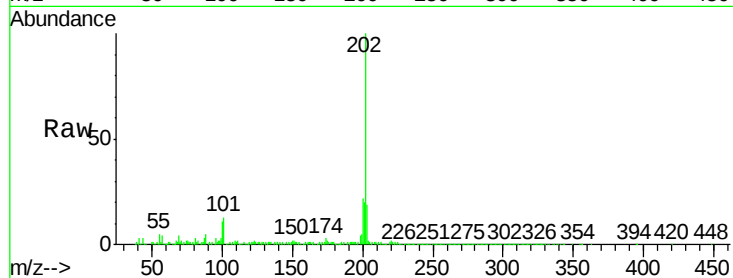




#77
 Pyrene
 Concen: 27.59 ng
 RT: 19.96 min Scan# 2913
 Delta R.T. 0.00 min
 Lab File: BG021686.D
 Acq: 15 Apr 2016 13:59

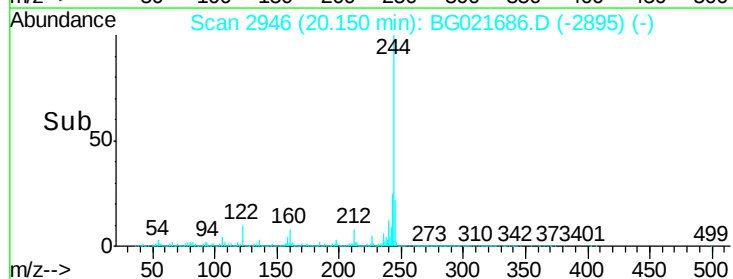
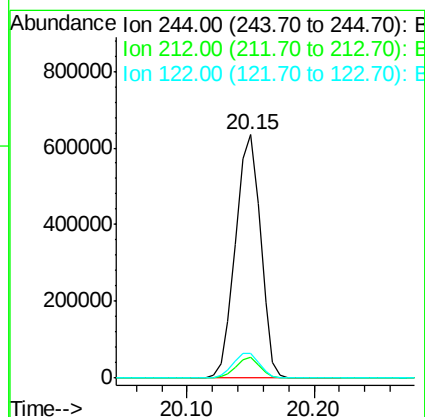
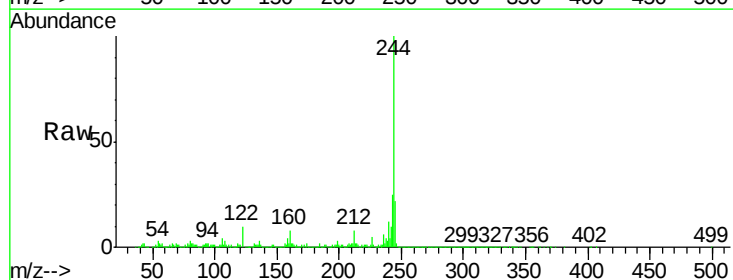
Instrument :
 BNA_G
 ClientSampleId :
 SP-7W(0-2)C

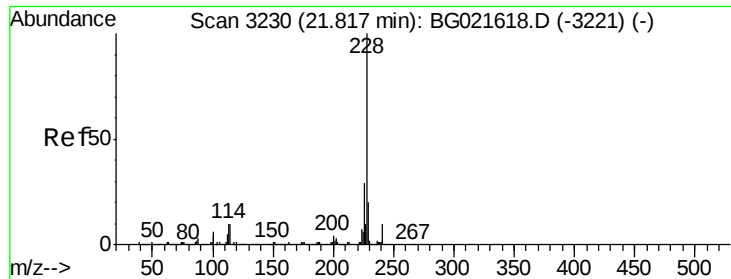
Tgt Ion:	202	Resp:	410925
Ion	Ratio	Lower	Upper
202	100		
200	22.2	18.2	27.2
203	19.0	15.0	22.4



#78
 Terphenyl-d14
 Concen: 83.51 ng
 RT: 20.15 min Scan# 2946
 Delta R.T. 0.00 min
 Lab File: BG021686.D
 Acq: 15 Apr 2016 13:59

Tgt Ion:	244	Resp:	864373
Ion	Ratio	Lower	Upper
244	100		
212	8.5	6.5	9.7
122	10.2	8.6	12.8





#80

Benzo(a)anthracene

Concen: 16.94 ng

RT: 21.82 min Scan# 3230

Delta R.T. 0.00 min

Lab File: BG021686.D

Acq: 15 Apr 2016 13:59

Instrument :

BNA_G

ClientSampleId :

SP-7W(0-2)C

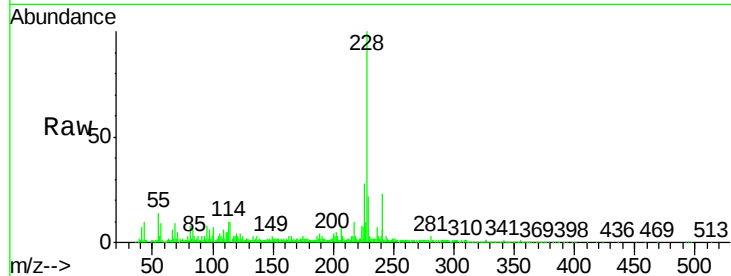
Tgt Ion:228 Resp: 251746

Ion Ratio Lower Upper

228 100

226 28.4 22.6 34.0

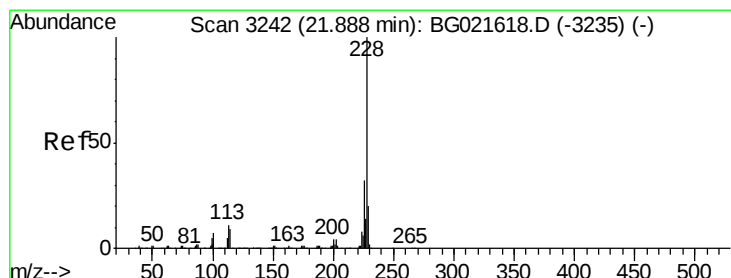
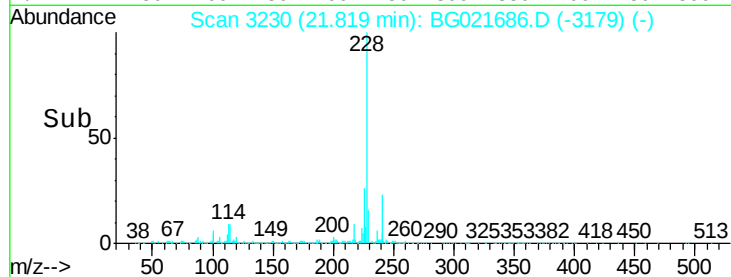
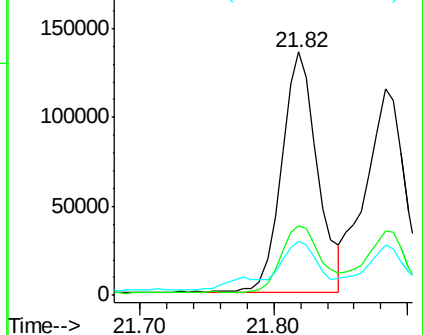
229 22.4 16.1 24.1



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



#82

Chrysene

Concen: 17.63 ng

RT: 21.82 min Scan# 3230

Delta R.T. -0.07 min

Lab File: BG021686.D

Acq: 15 Apr 2016 13:59

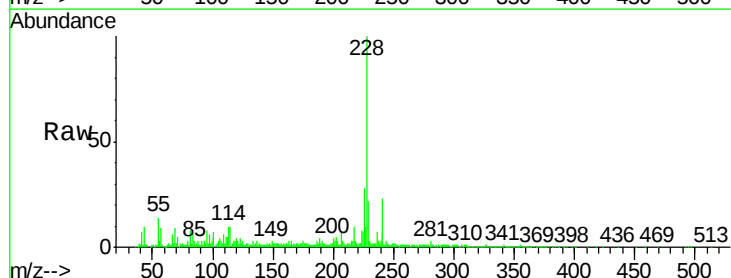
Tgt Ion:228 Resp: 251746

Ion Ratio Lower Upper

228 100

226 28.4 25.4 38.0

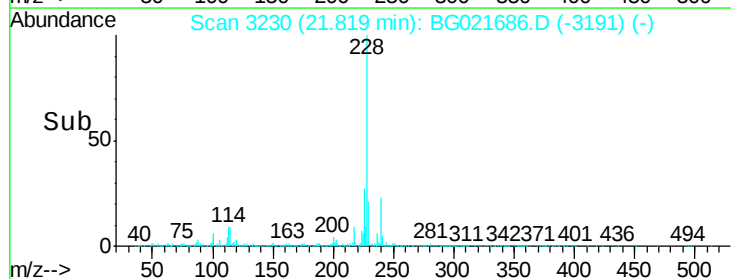
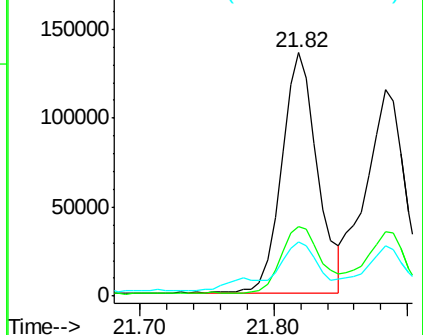
229 22.4 15.9 23.9

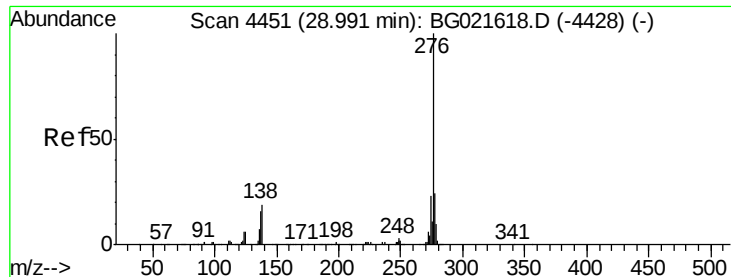


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#85

Indeno(1,2,3-cd)pyrene

Concen: 4.32 ng

RT: 29.02 min Scan# 4455

Delta R.T. 0.02 min

Lab File: BG021686.D

Acq: 15 Apr 2016 13:59

Instrument :

BNA_G

ClientSampleId :

SP-7W(0-2)C

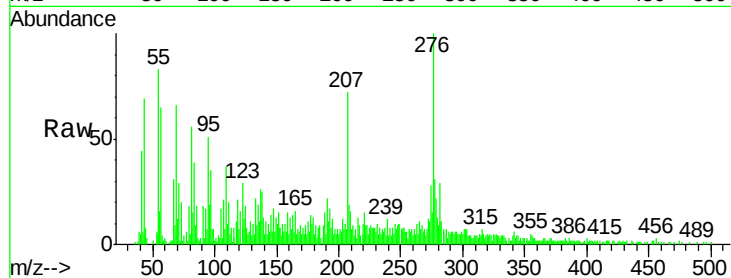
Tgt Ion:276 Resp: 73392

Ion Ratio Lower Upper

276 100

138 0.0 14.0 21.0#

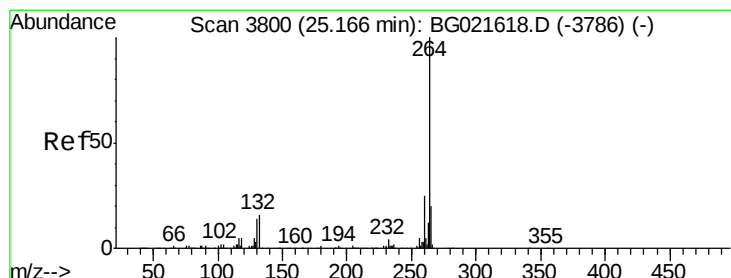
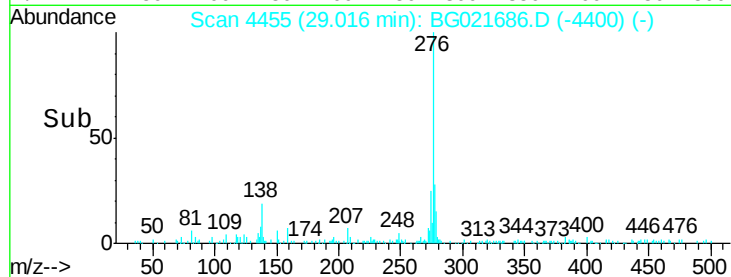
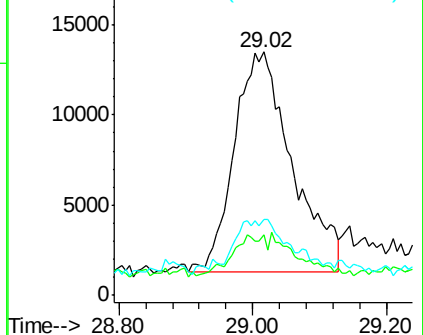
277 0.0 20.6 30.8#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#86

Perylene-d12

Concen: 20.00 ng

RT: 25.19 min Scan# 3803

Delta R.T. 0.02 min

Lab File: BG021686.D

Acq: 15 Apr 2016 13:59

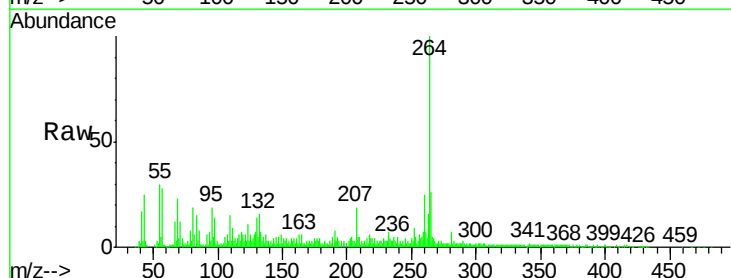
Tgt Ion:264 Resp: 210058

Ion Ratio Lower Upper

264 100

260 24.9 20.2 30.4

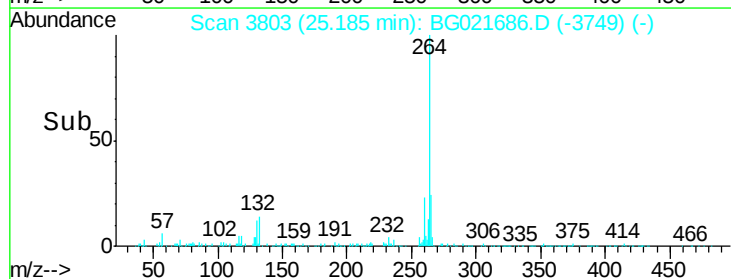
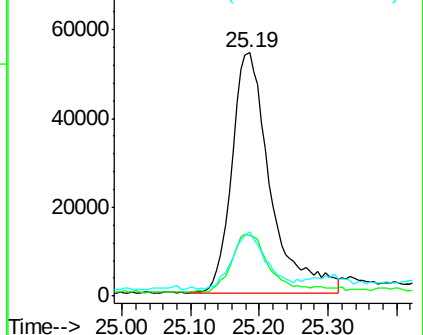
265 26.2 17.8 26.8

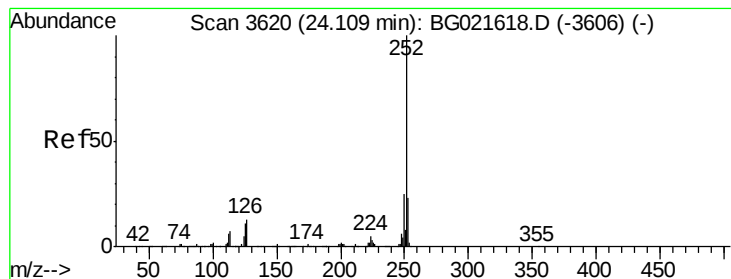


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 22.55 ng

RT: 24.12 min Scan# 3621

Delta R.T. 0.01 min

Lab File: BG021686.D

Acq: 15 Apr 2016 13:59

Instrument :

BNA_G

ClientSampleId :

SP-7W(0-2)C

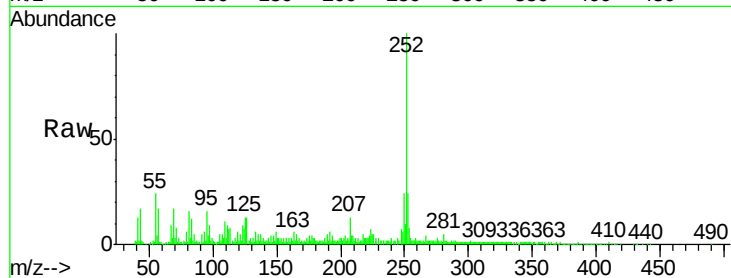
Tgt Ion:252 Resp: 274909

Ion Ratio Lower Upper

252 100

253 24.4 17.5 26.3

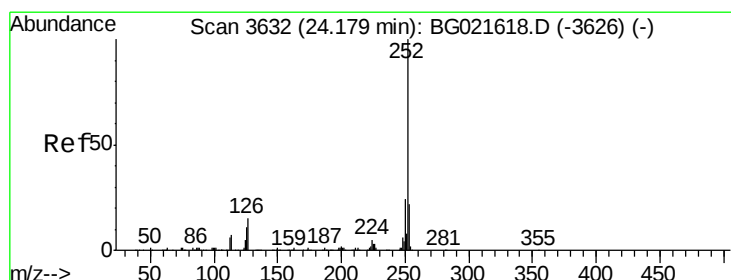
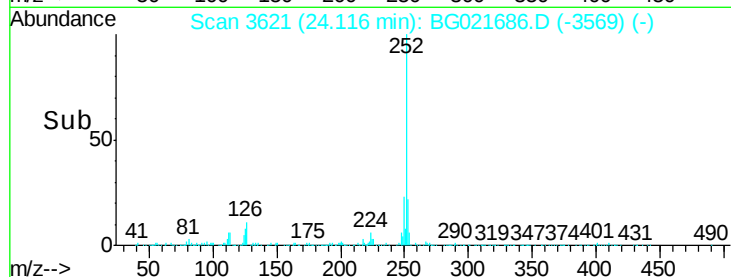
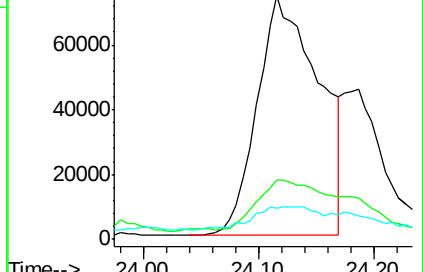
125 12.8 8.6 13.0



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



#88

Benzo(k)fluoranthene

Concen: 23.07 ng

RT: 24.12 min Scan# 3621

Delta R.T. -0.06 min

Lab File: BG021686.D

Acq: 15 Apr 2016 13:59

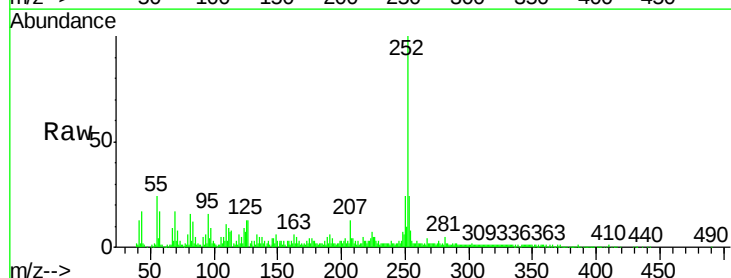
Tgt Ion:252 Resp: 274909

Ion Ratio Lower Upper

252 100

253 24.4 17.8 26.8

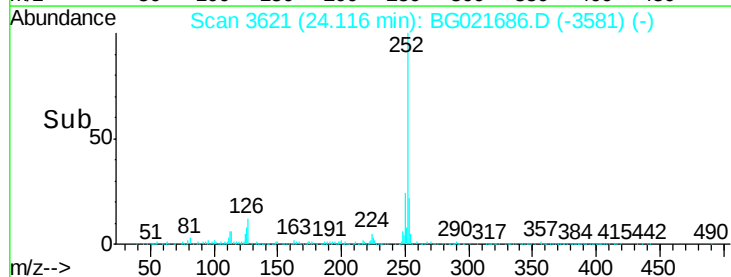
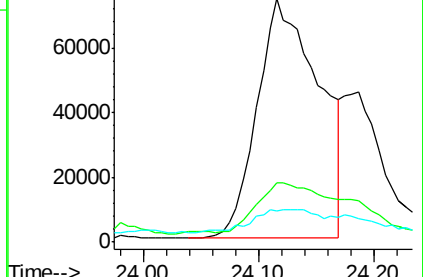
125 12.8 8.3 12.5#

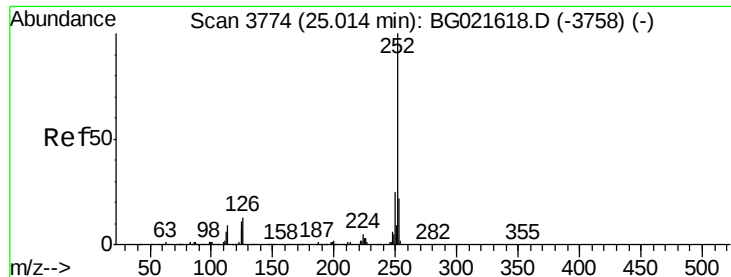


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 16.09 ng

RT: 25.03 min Scan# 3776

Delta R.T. 0.01 min

Lab File: BG021686.D

Acq: 15 Apr 2016 13:59

Instrument :

BNA_G

ClientSampleId :

SP-7W(0-2)C

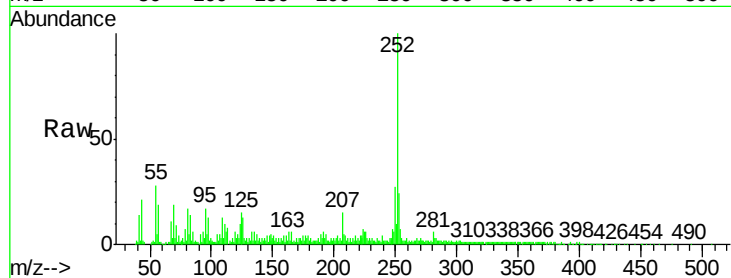
Tgt Ion:252 Resp: 190040

Ion Ratio Lower Upper

252 100

253 24.4 17.1 25.7

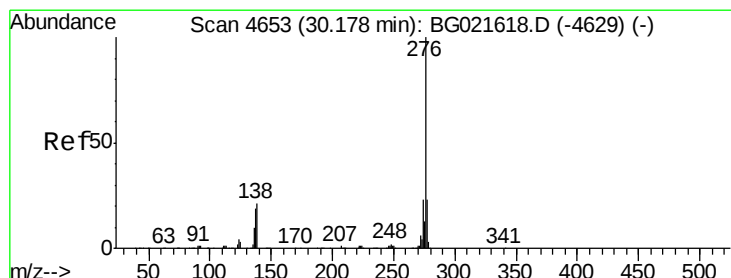
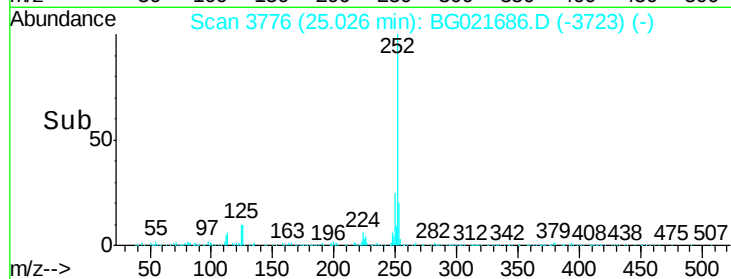
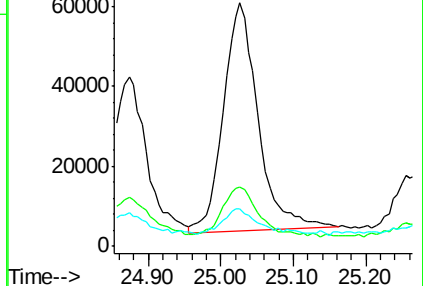
125 15.2 9.6 14.4#



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



#91

Benzo(g,h,i)perylene

Concen: 2.52 ng

RT: 30.19 min Scan# 4655

Delta R.T. 0.01 min

Lab File: BG021686.D

Acq: 15 Apr 2016 13:59

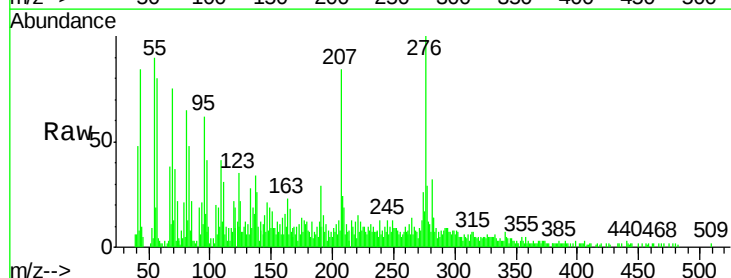
Tgt Ion:276 Resp: 29282

Ion Ratio Lower Upper

276 100

277 29.0 19.4 29.2

138 25.6 17.4 26.0



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

