

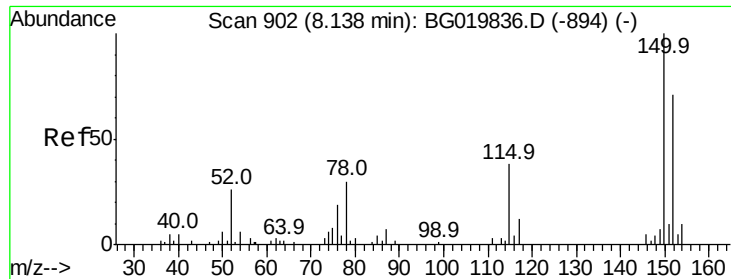
Data Path : Z:\HPCHEM1\BNA G\DATA\BG121015\
 Data File : BG020055.D
 Acq On : 9 Dec 2015 22:32
 Operator : UM/SJ
 Sample : G4698-01
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 KENT-PIT-1

Quant Time: Dec 10 02:35:10 2015
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG120215.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 02 18:50:01 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.11	152	23866	20.00	ng	-0.03
21) Naphthalene-d8	10.93	136	102658	20.00	ng	-0.02
38) Acenaphthene-d10	14.74	164	66462	20.00	ng	-0.03
63) Phenanthrene-d10	17.48	188	153770	20.00	ng	-0.03
75) Chrysene-d12	21.77	240	192662	20.00	ng	-0.02
86) Perylene-d12	25.06	264	185740	20.00	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.66	112	53030	40.16	ng	-0.01
7) Phenol-d6	7.26	99	49275	24.71	ng	-0.02
23) Nitrobenzene-d5	9.28	82	176220	87.61	ng	-0.02
41) 2,4,6-Tribromophenol	16.22	330	81948	80.58	ng	-0.02
44) 2-Fluorobiphenyl	13.37	172	419162	86.11	ng	-0.02
78) Terphenyl-d14	20.09	244	610047	77.23	ng	-0.02
Target Compounds						
31) Naphthalene	10.98	128	11145	2.03	ng	Qvalue # 95
48) Acenaphthylene	14.47	152	187186	26.14	ng	99
51) Acenaphthene	14.80	154	35260	8.11	ng	97
54) Dibenzofuran	15.14	168	37024	5.73	ng	96
57) Fluorene	15.78	166	36758	6.35	ng	98
70) Phenanthrene	17.52	178	140121	16.11	ng	96
71) Anthracene	17.61	178	132232	14.92	ng	96
72) Carbazole	17.88	167	39851	5.10	ng	99
74) Fluoranthene	19.55	202	2403898	216.02	ng	89
77) Pyrene	19.91	202	2459693m	217.01	ng	
80) Benzo(a)anthracene	21.75	228	1781035	151.02	ng	# 89
82) Chrysene	21.82	228	1517857m	135.55	ng	
85) Indeno(1,2,3-cd)pyrene	28.86	276	1202630	97.50	ng	# 100
87) Benzo(b)fluoranthene	24.04	252	2229134	189.36	ng	# 96
88) Benzo(k)fluoranthene	24.10	252	757679m	64.99	ng	
89) Benzo(a)pyrene	24.94	252	1862942m	166.69	ng	
90) Dibenzo(a,h)anthracene	28.89	278	293851	26.61	ng	# 88
91) Benzo(g,h,i)perylene	30.04	276	1051879	97.02	ng	# 91

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

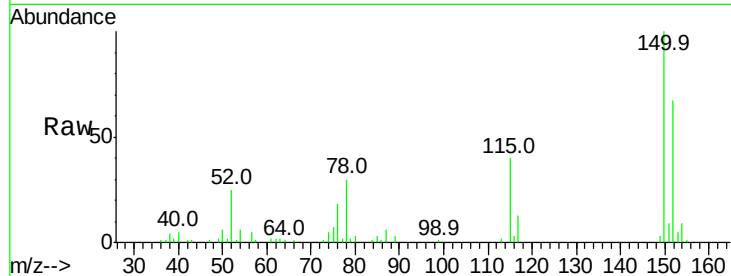


#1

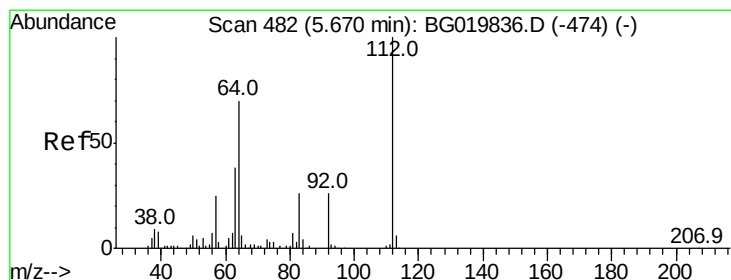
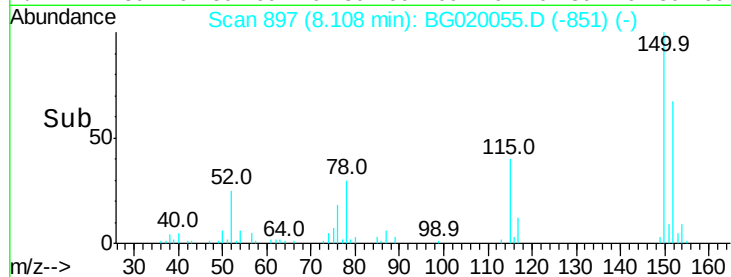
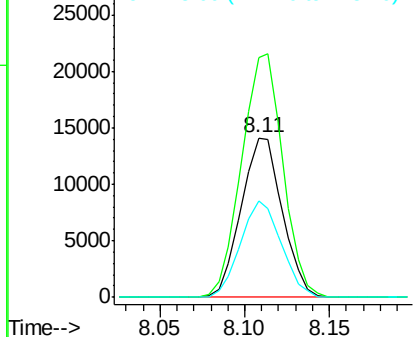
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 8.11 min Scan# 897
Delta R.T. -0.03 min
Lab File: BG020055.D
Acq: 9 Dec 2015 22:32

Instrument :
BNA_G
ClientSampleId :
KENT-PIT-1

Tot Ion:152 Resp: 23866
Ion Ratio Lower Upper
152 100
150 150.3 115.0 172.4
115 60.5 43.9 65.9



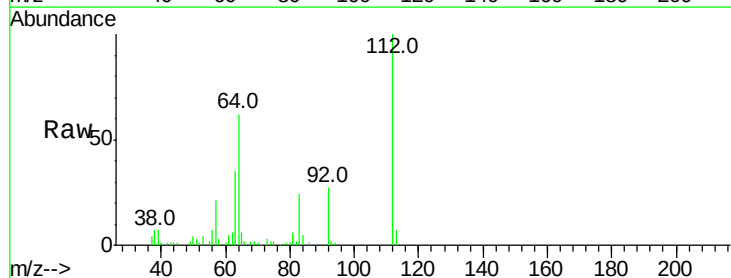
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



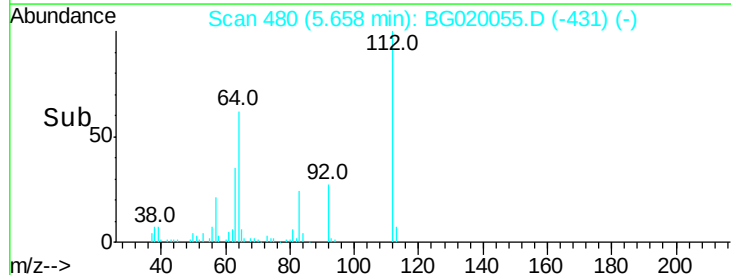
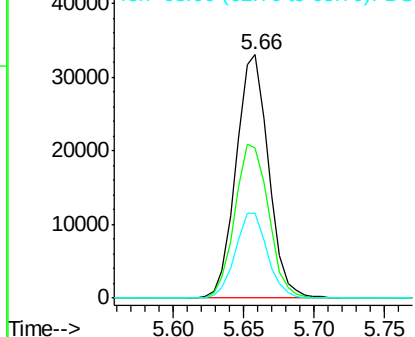
#5

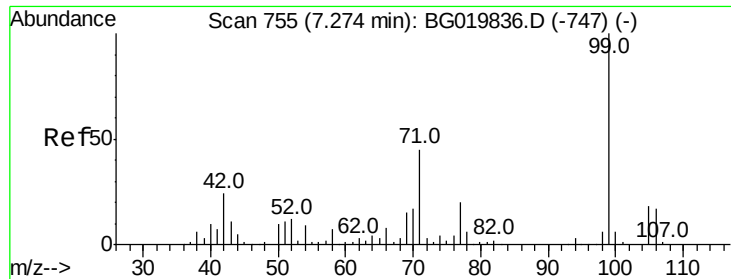
2-Fluorophenol
Concen: 40.16 ng
RT: 5.66 min Scan# 480
Delta R.T. -0.01 min
Lab File: BG020055.D
Acq: 9 Dec 2015 22:32

Tgt Ion:112 Resp: 53030
Ion Ratio Lower Upper
112 100
64 61.9 43.7 65.5
63 34.7 24.0 36.0



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: 24.71 ng

RT: 7.26 min Scan# 752

Delta R.T. -0.02 min

Lab File: BG020055.D

Acq: 9 Dec 2015 22:32

Instrument :

BNA_G

ClientSampleId :

KENT-PIT-1

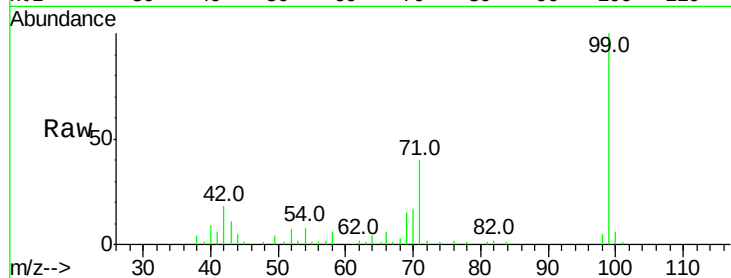
Tot Ion: 99 Resp: 49275

Ion Ratio Lower Upper

99 100

42 18.4 11.5 17.3#

71 39.5 22.6 34.0#

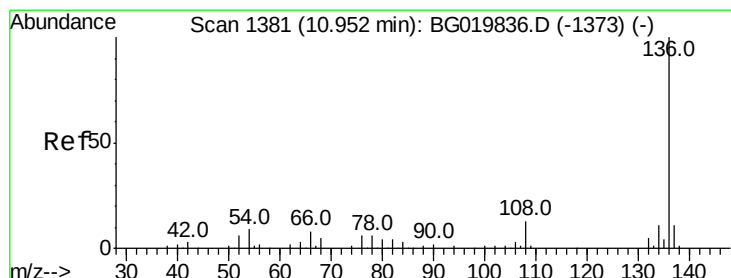
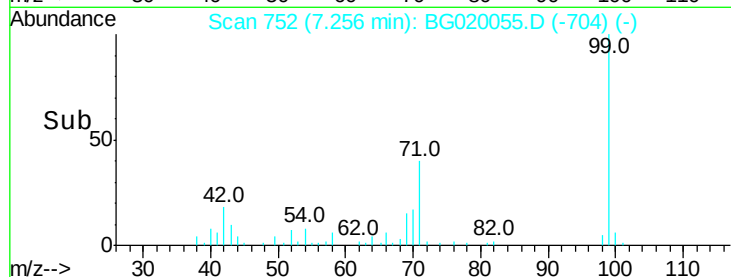
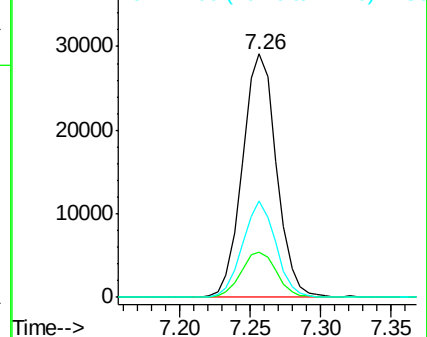


Abundance

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: 20.00 ng

RT: 10.93 min Scan# 1377

Delta R.T. -0.02 min

Lab File: BG020055.D

Acq: 9 Dec 2015 22:32

Tgt Ion: 136 Resp: 102658

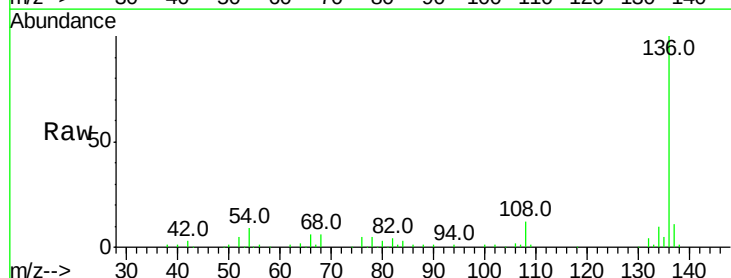
Ion Ratio Lower Upper

136 100

137 11.0 8.6 12.8

54 8.6 5.4 8.2#

68 5.7 5.3 7.9



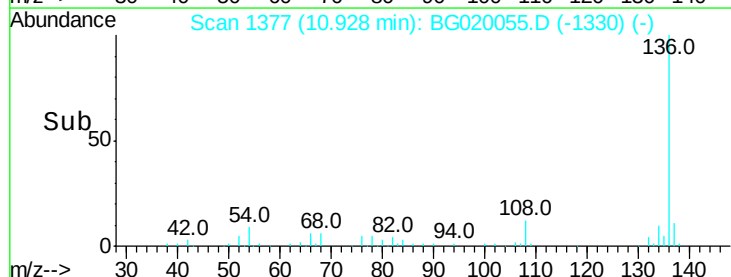
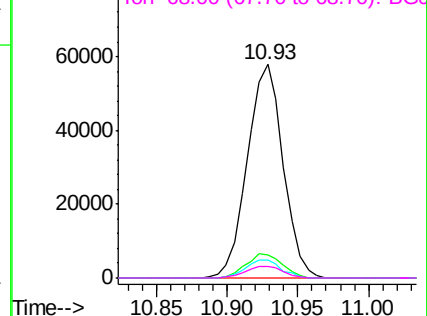
Abundance

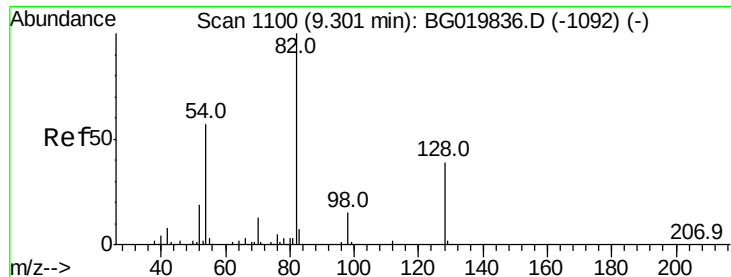
Ion 136.00 (135.70 to 136.70): BGC

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

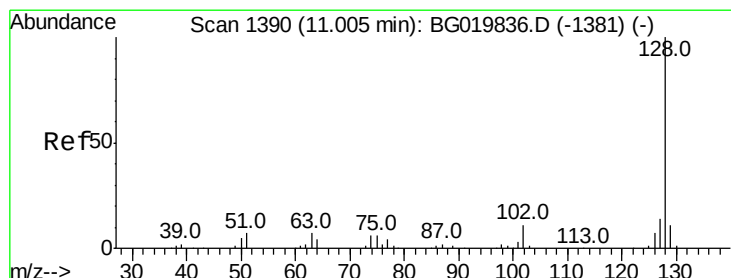
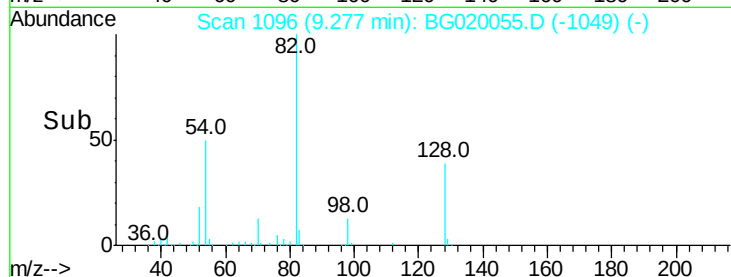
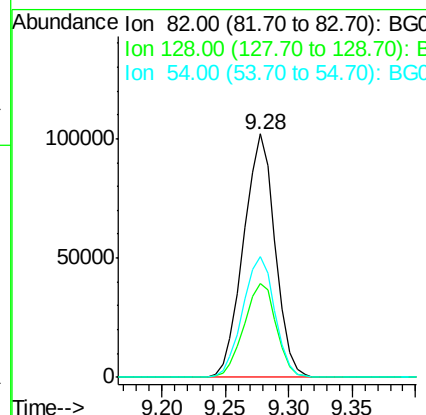
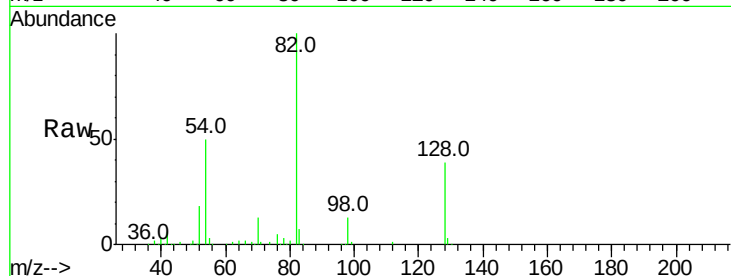




#23
 Nitrobenzene-d5
 Concen: 87.61 ng
 RT: 9.28 min Scan# 1096
 Delta R.T. -0.02 min
 Lab File: BG020055.D
 Acq: 9 Dec 2015 22:32

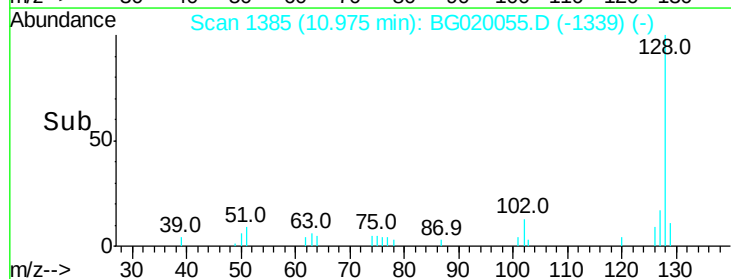
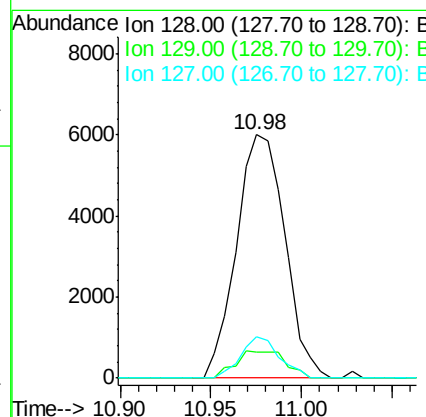
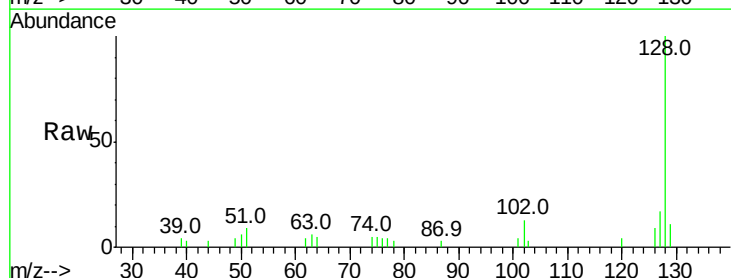
Instrument :
 BNA_G
 ClientSampled :
 KENT-PIT-1

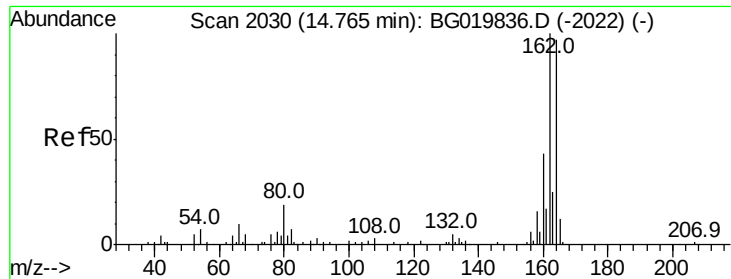
Tot Ion: 82 Resp: 176220
 Ion Ratio Lower Upper
 82 100
 128 38.6 36.7 55.1
 54 49.6 33.8 50.8



#31
 Naphthalene
 Concen: 2.03 ng
 RT: 10.98 min Scan# 1385
 Delta R.T. -0.03 min
 Lab File: BG020055.D
 Acq: 9 Dec 2015 22:32

Tgt Ion: 128 Resp: 11145
 Ion Ratio Lower Upper
 128 100
 129 10.9 8.5 12.7
 127 16.8 10.6 16.0#





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 14.74 min Scan# 2025

Delta R.T. -0.03 min

Lab File: BG020055.D

Acq: 9 Dec 2015 22:32

Instrument :

BNA_G

ClientSampleId :

KENT-PIT-1

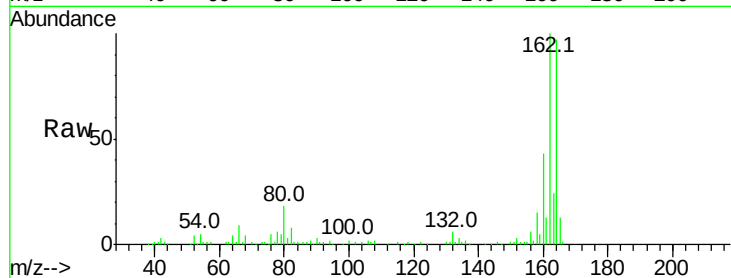
Tot Ion:164 Resp: 66462

Ion Ratio Lower Upper

164 100

162 102.8 78.8 118.2

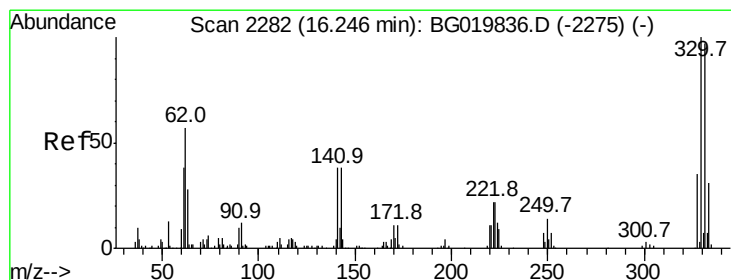
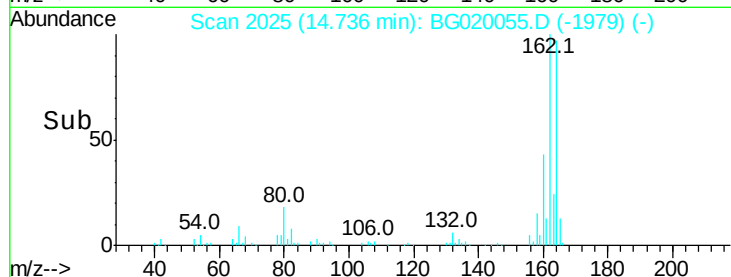
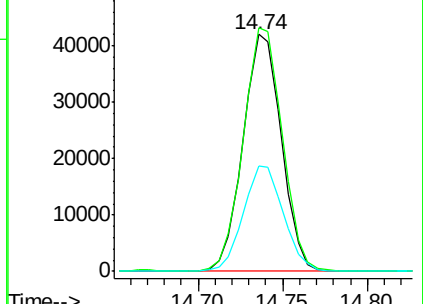
160 44.7 36.4 54.6



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

2,4,6-Tribromophenol

Concen: 80.58 ng

RT: 16.22 min Scan# 2278

Delta R.T. -0.02 min

Lab File: BG020055.D

Acq: 9 Dec 2015 22:32

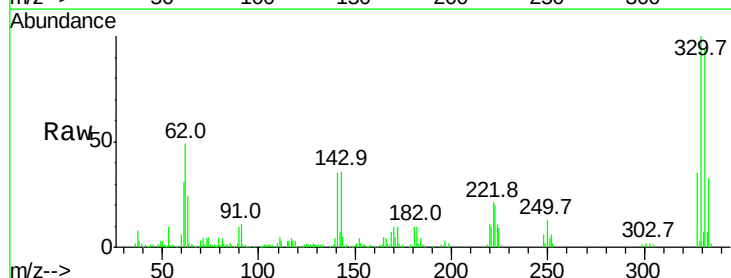
Tgt Ion:330 Resp: 81948

Ion Ratio Lower Upper

330 100

332 95.7 78.1 117.1

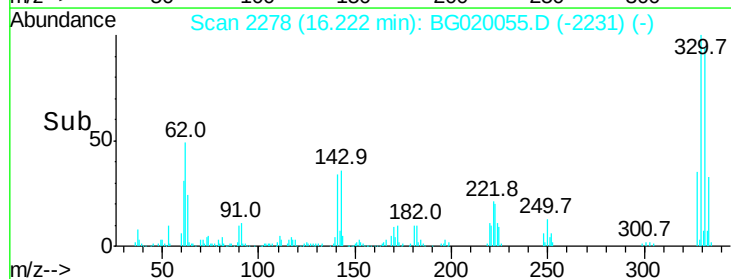
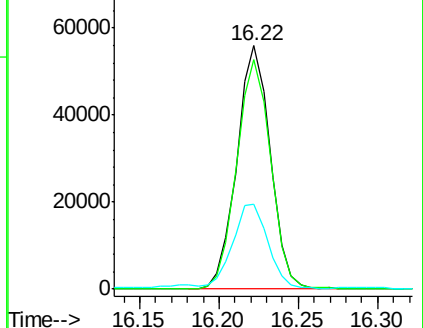
141 39.9 28.2 42.2

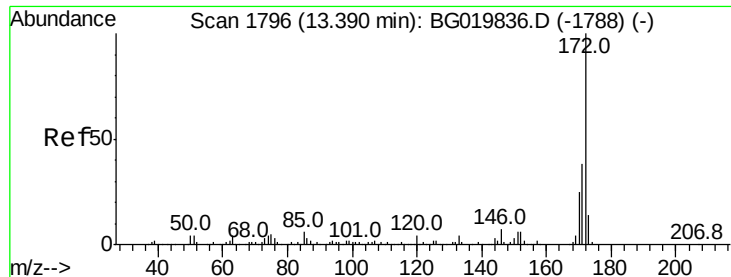


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

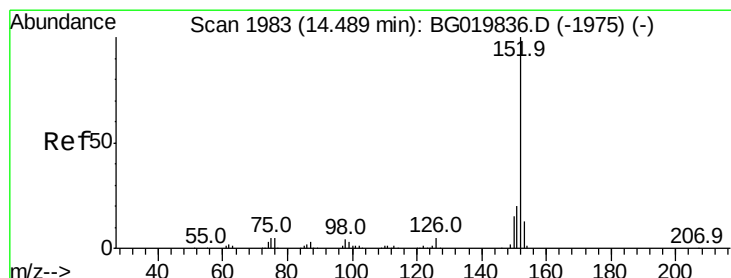
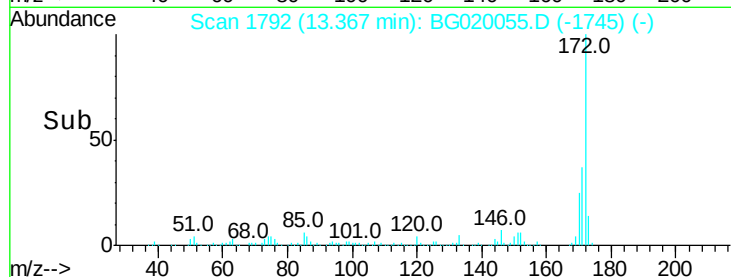
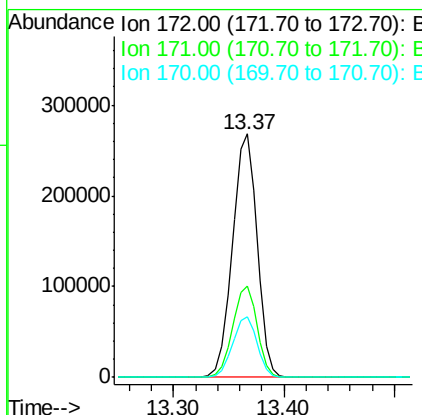
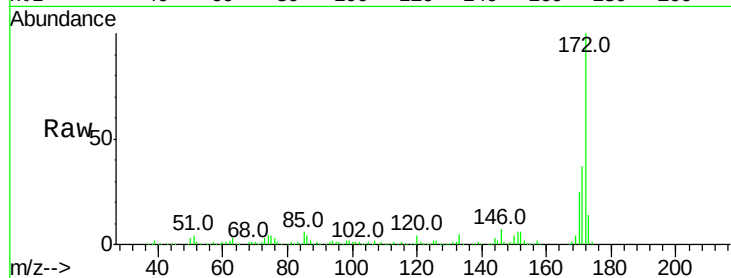




#44
2-Fluorobiphenyl
Concen: 86.11 ng
RT: 13.37 min Scan# 1792
Delta R.T. -0.02 min
Lab File: BG020055.D
Acq: 9 Dec 2015 22:32

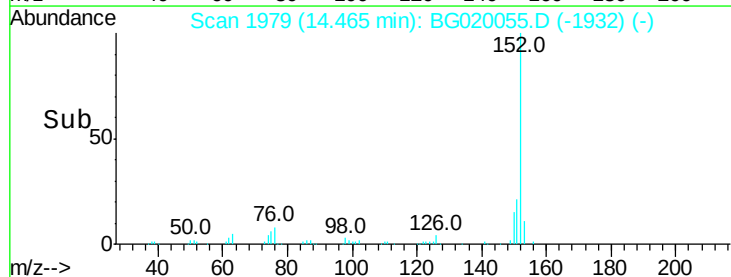
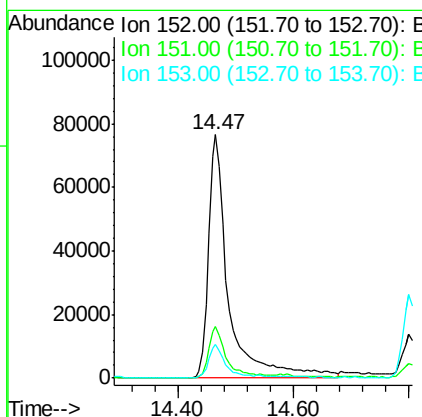
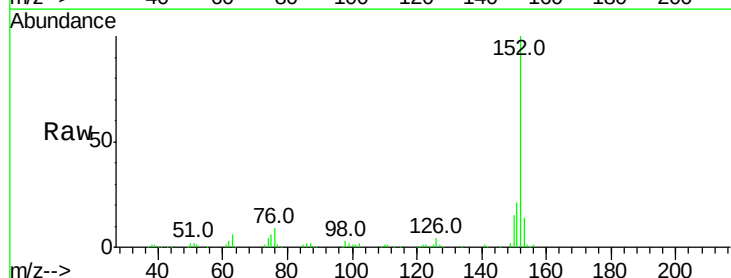
Instrument :
BNA_G
ClientSampleId :
KENT-PIT-1

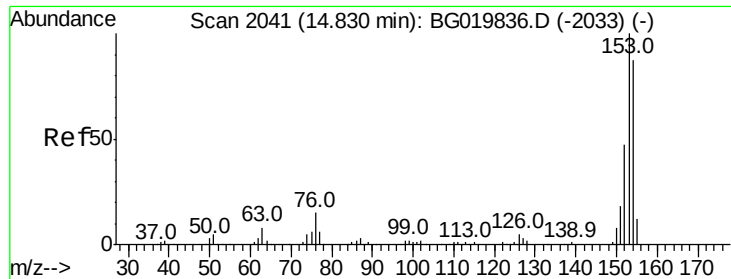
Tot Ion:172 Resp: 419162
Ion Ratio Lower Upper
172 100
171 37.4 29.0 43.6
170 24.9 19.9 29.9



#48
Acenaphthylene
Concen: 26.14 ng
RT: 14.47 min Scan# 1979
Delta R.T. -0.02 min
Lab File: BG020055.D
Acq: 9 Dec 2015 22:32

Tgt Ion:152 Resp: 187186
Ion Ratio Lower Upper
152 100
151 21.4 17.0 25.4
153 13.7 10.4 15.6





#51

Acenaphthene

Concen: 8.11 ng

RT: 14.80 min Scan# 2036

Delta R.T. -0.03 min

Lab File: BG020055.D

Acq: 9 Dec 2015 22:32

Instrument :

BNA_G

ClientSampleId :

KENT-PIT-1

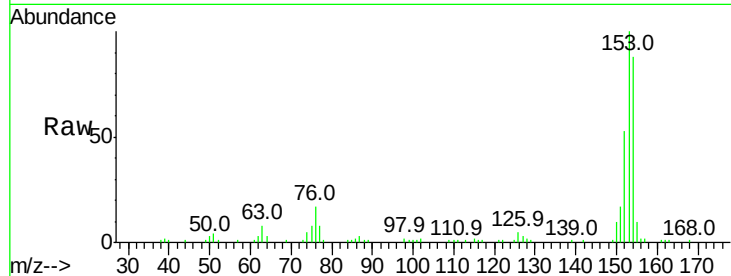
Tot Ion:154 Resp: 35260

Ion Ratio Lower Upper

154 100

153 114.1 92.9 139.3

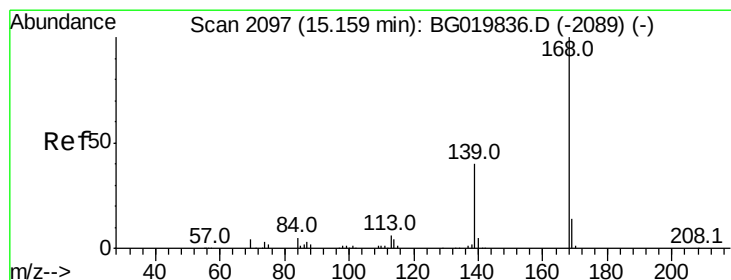
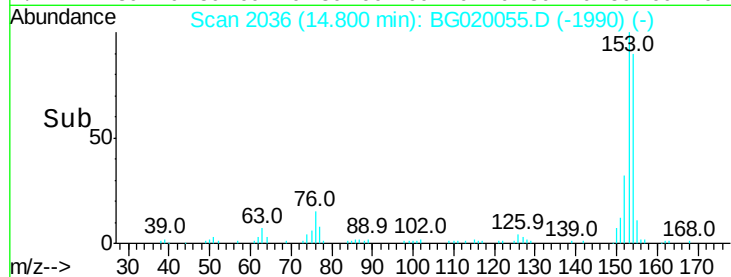
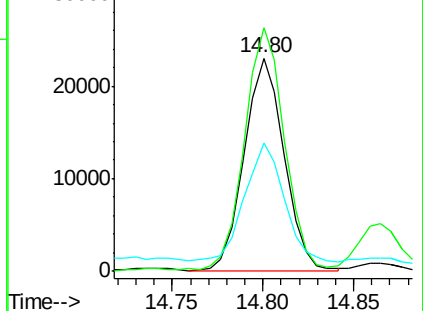
152 60.2 45.8 68.8



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 5.73 ng

RT: 15.14 min Scan# 2093

Delta R.T. -0.02 min

Lab File: BG020055.D

Acq: 9 Dec 2015 22:32

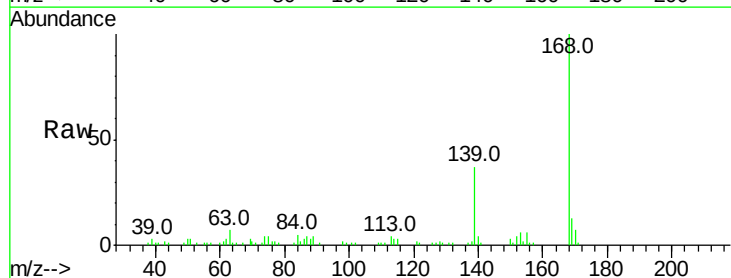
Tgt Ion:168 Resp: 37024

Ion Ratio Lower Upper

168 100

139 37.3 27.4 41.0

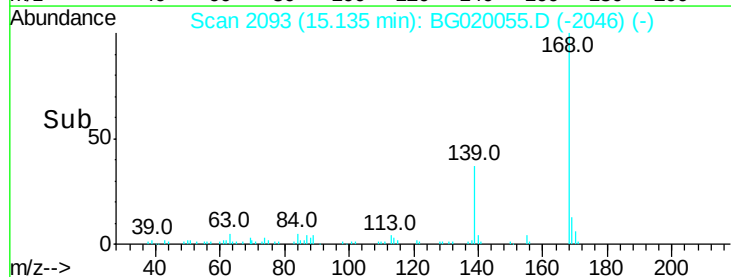
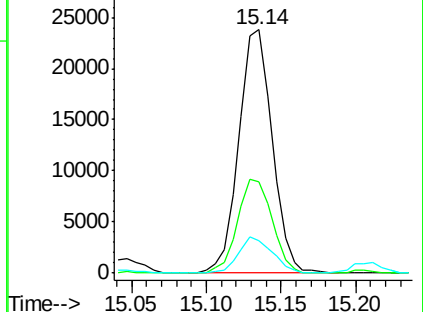
169 13.5 11.0 16.4

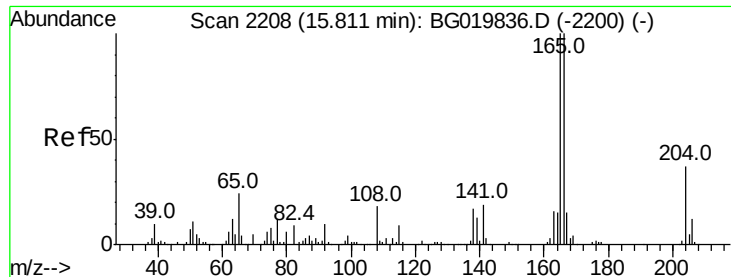


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#57

Fluorene

Concen: 6.35 ng

RT: 15.78 min Scan# 2203

Delta R.T. -0.03 min

Lab File: BG020055.D

Acq: 9 Dec 2015 22:32

Instrument :

BNA_G

ClientSampleId :

KENT-PIT-1

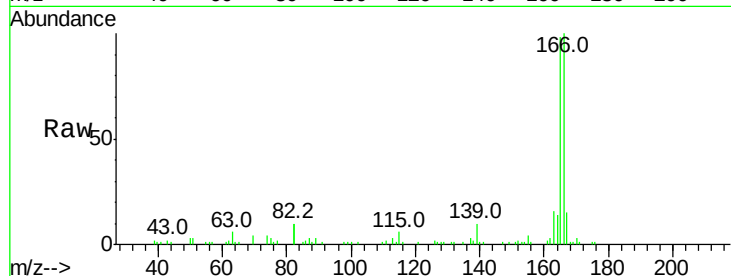
Tot Ion:166 Resp: 36758

Ion Ratio Lower Upper

166 100

165 97.6 80.0 120.0

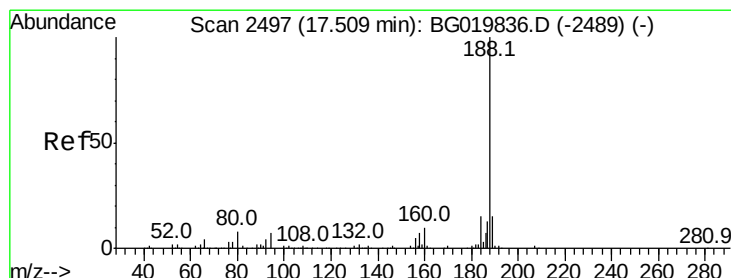
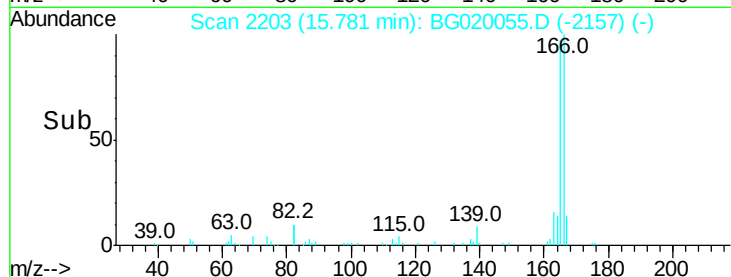
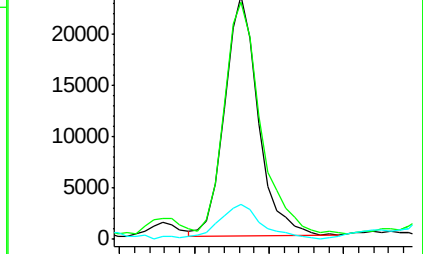
167 14.5 11.1 16.7



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 17.48 min Scan# 2492

Delta R.T. -0.03 min

Lab File: BG020055.D

Acq: 9 Dec 2015 22:32

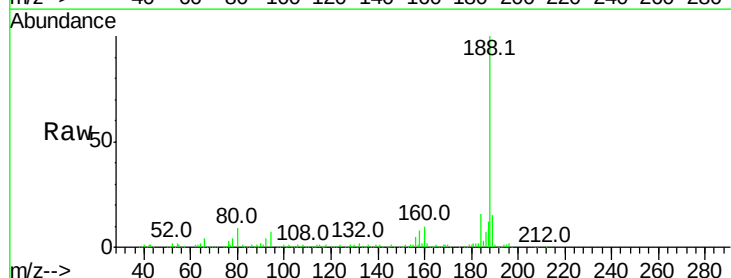
Tgt Ion:188 Resp: 153770

Ion Ratio Lower Upper

188 100

94 7.4 7.7 11.5#

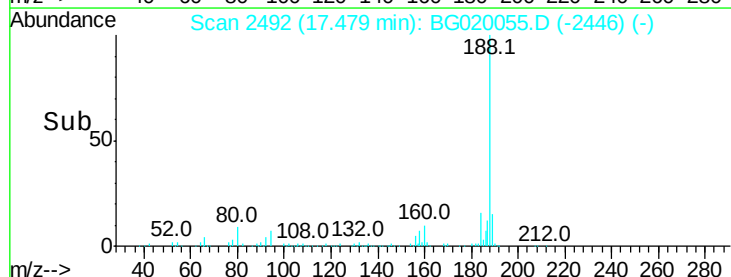
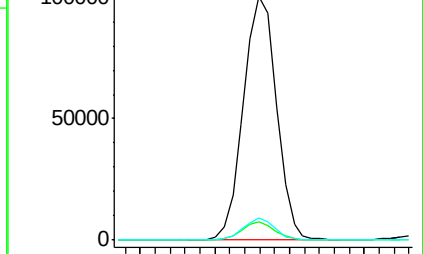
80 9.0 7.8 11.8

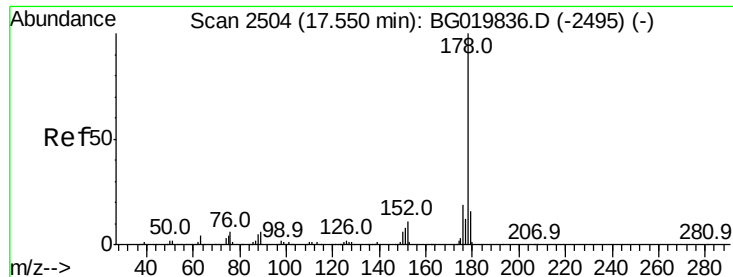


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC





#70

Phenanthrene

Concen: 16.11 ng

RT: 17.52 min Scan# 2499

Delta R.T. -0.03 min

Lab File: BG020055.D

Acq: 9 Dec 2015 22:32

Instrument :

BNA_G

ClientSampleId :

KENT-PIT-1

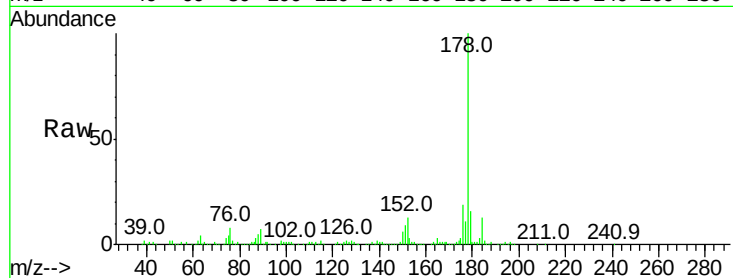
Tot Ion:178 Resp: 140121

Ion Ratio Lower Upper

178 100

176 18.5 16.7 25.1

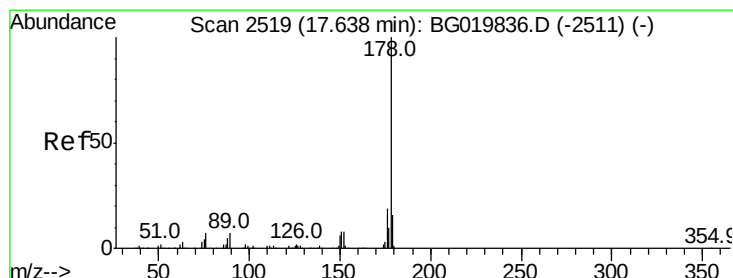
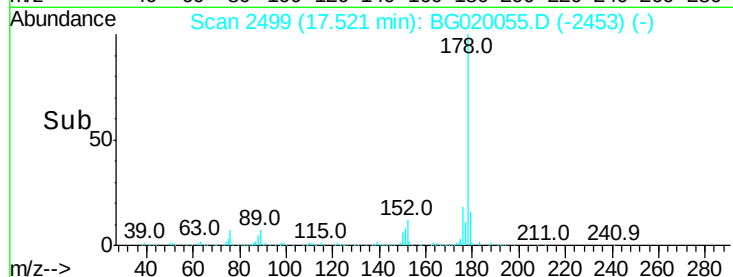
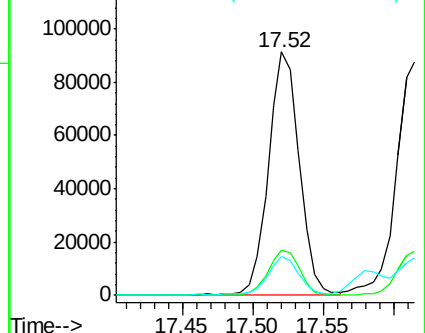
179 16.2 13.9 20.9



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: 14.92 ng

RT: 17.61 min Scan# 2515

Delta R.T. -0.02 min

Lab File: BG020055.D

Acq: 9 Dec 2015 22:32

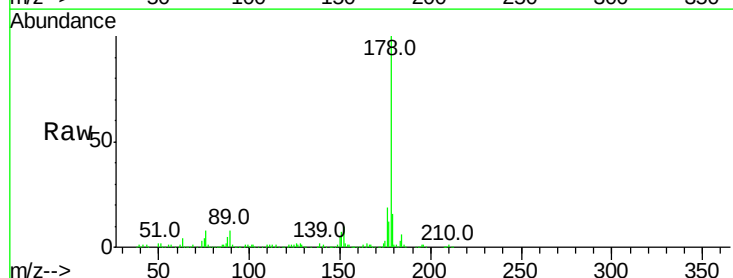
Tgt Ion:178 Resp: 132232

Ion Ratio Lower Upper

178 100

176 18.9 16.8 25.2

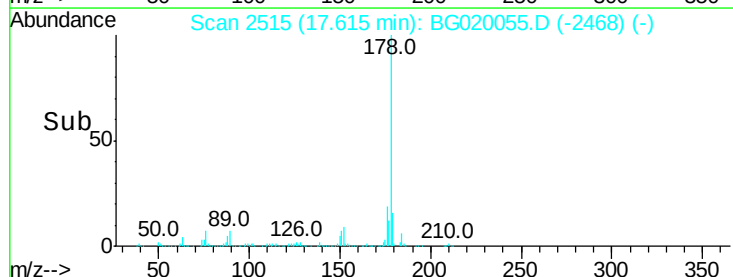
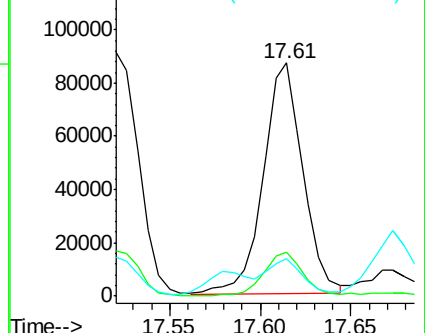
179 15.9 13.9 20.9

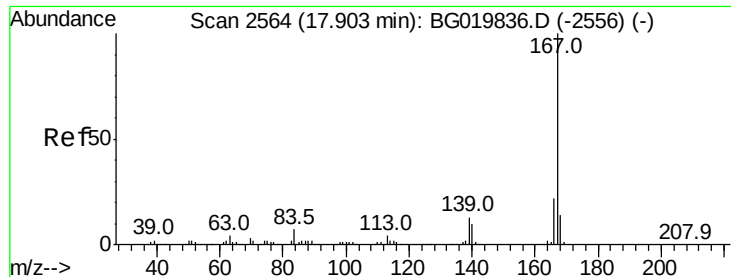


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 5.10 ng

RT: 17.88 min Scan# 2560

Delta R.T. -0.02 min

Lab File: BG020055.D

Acq: 9 Dec 2015 22:32

Instrument :

BNA_G

ClientSampleId :

KENT-PIT-1

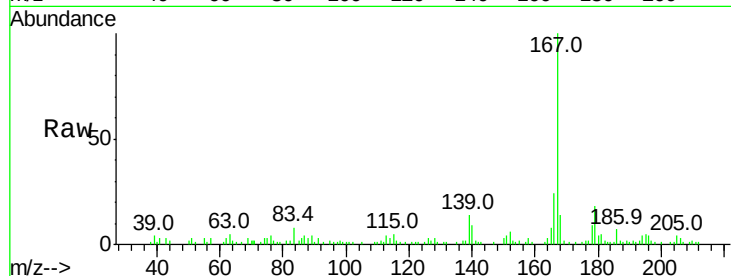
Tot Ion:167 Resp: 39851

Ion Ratio Lower Upper

167 100

166 23.7 19.0 28.6

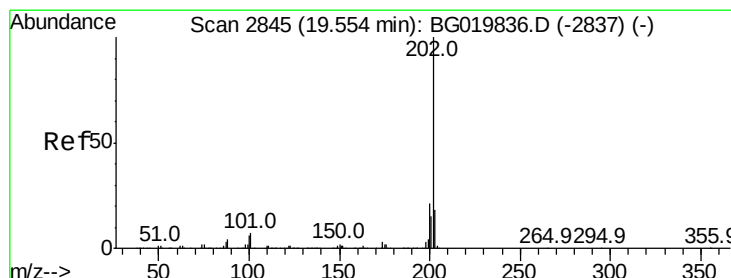
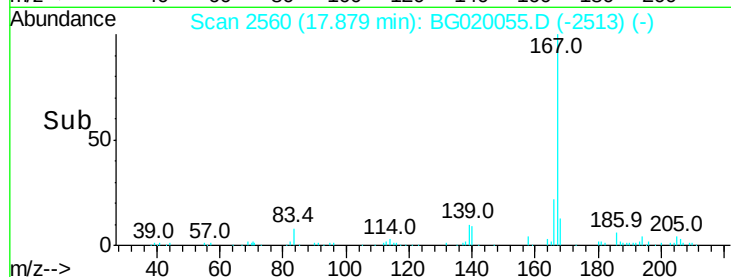
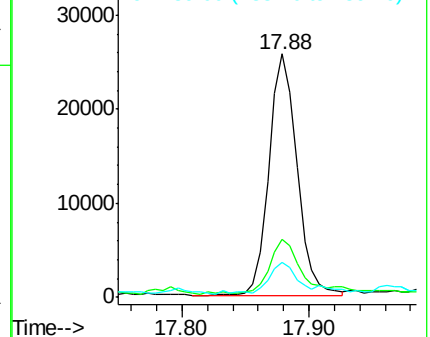
139 14.2 10.2 15.4



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 216.02 ng

RT: 19.55 min Scan# 2844

Delta R.T. -0.01 min

Lab File: BG020055.D

Acq: 9 Dec 2015 22:32

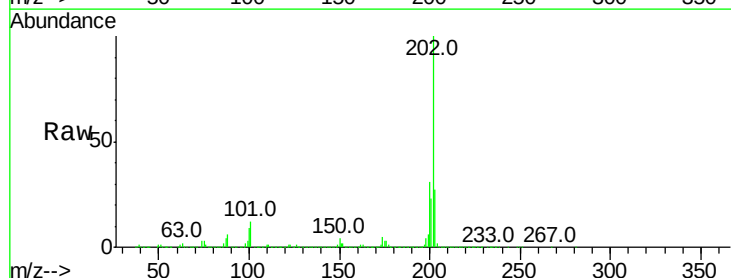
Tgt Ion:202 Resp: 2403898

Ion Ratio Lower Upper

202 100

101 11.6 0.0 32.4

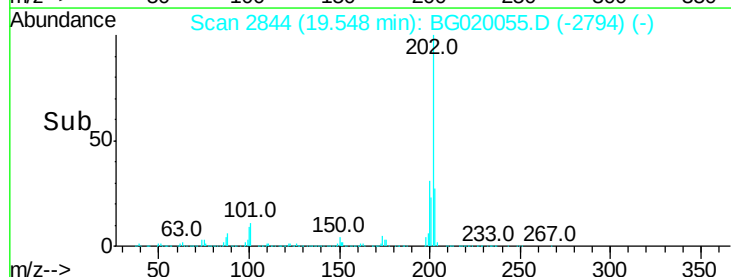
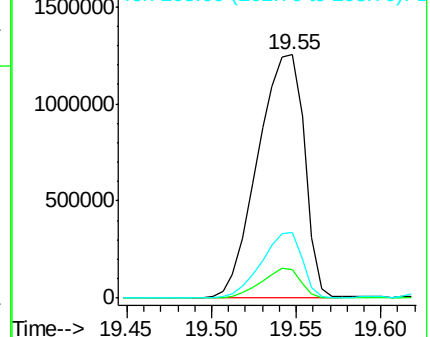
203 26.9 0.0 39.5

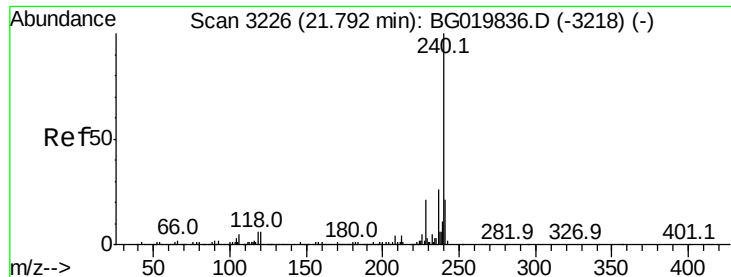


Abundance Ion 202.00 (201.70 to 202.70): E

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: 21.77 min Scan# 3223

Delta R.T. -0.02 min

Lab File: BG020055.D

Acq: 9 Dec 2015 22:32

Instrument :

BNA_G

ClientSampleId :

KENT-PIT-1

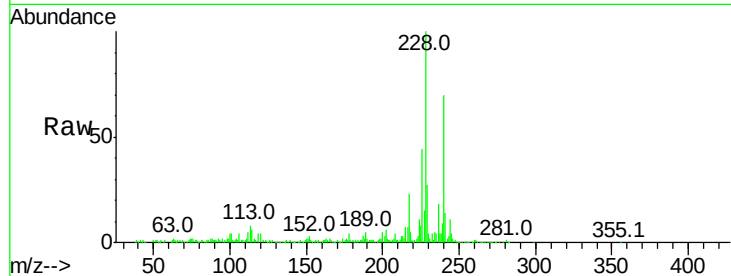
Tot Ion:240 Resp: 192662

Ion Ratio Lower Upper

240 100

120 6.4 7.4 11.0#

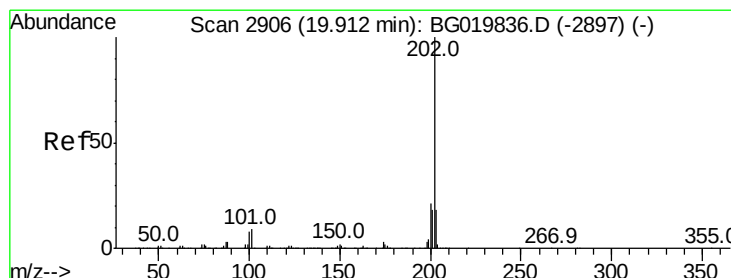
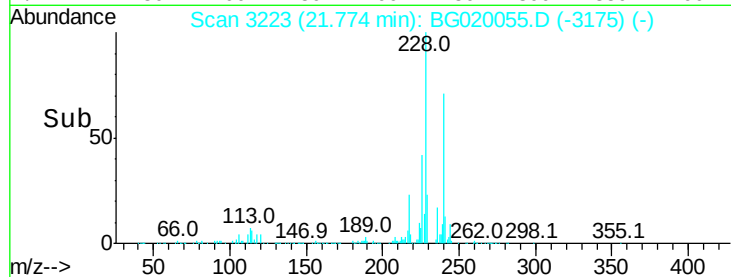
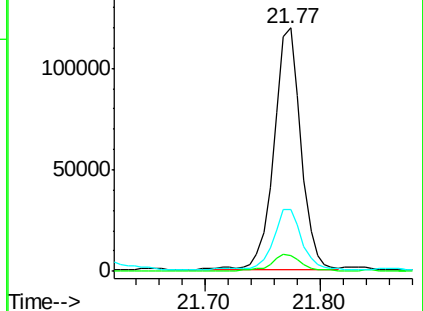
236 25.3 20.7 31.1



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: 217.01 ng m

RT: 19.91 min Scan# 2905

Delta R.T. -0.01 min

Lab File: BG020055.D

Acq: 9 Dec 2015 22:32

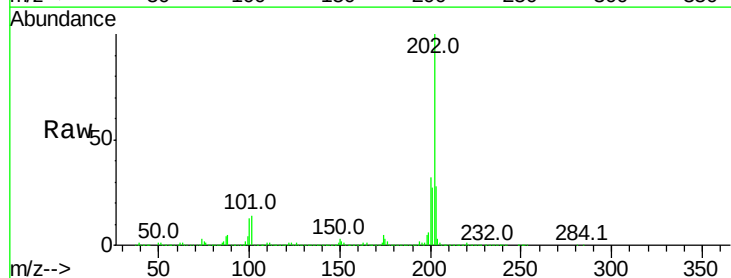
Tgt Ion:202 Resp: 2459693

Ion Ratio Lower Upper

202 100

200 31.9 19.4 29.0#

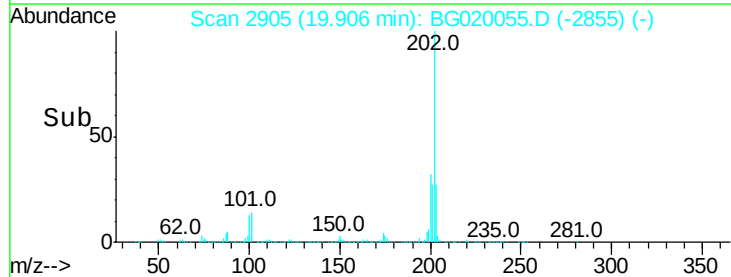
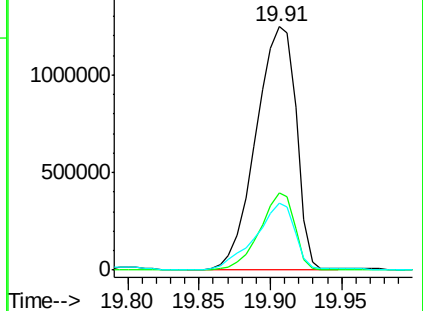
203 27.7 15.5 23.3#

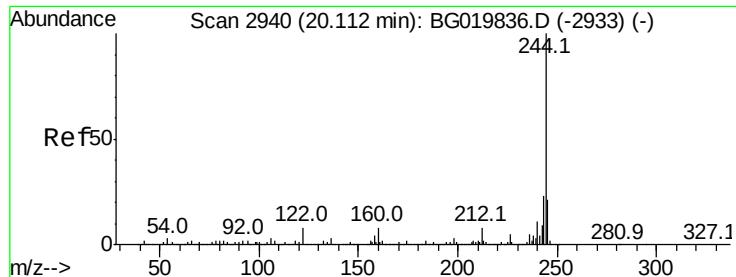


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 77.23 ng

RT: 20.09 min Scan# 2936

Delta R.T. -0.02 min

Lab File: BG020055.D

Acq: 9 Dec 2015 22:32

Instrument :

BNA_G

ClientSampleId :

KENT-PIT-1

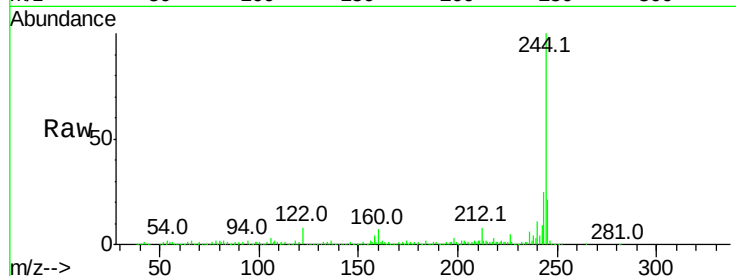
Tot Ion:244 Resp: 610047

Ion Ratio Lower Upper

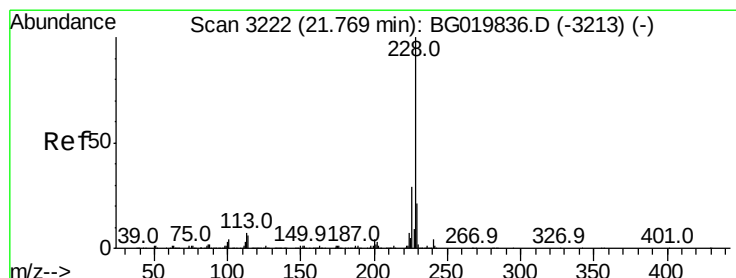
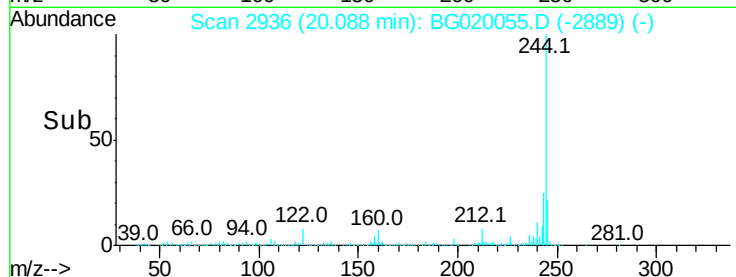
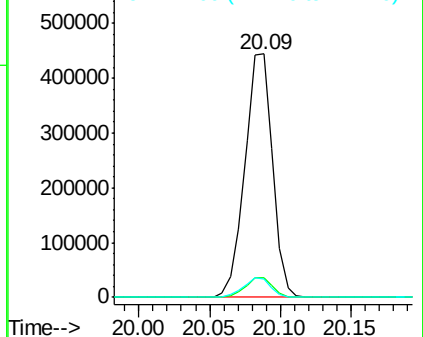
244 100

212 8.1 6.9 10.3

122 7.6 10.2 15.2#



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



#80

Benzo(a)anthracene

Concen: 151.02 ng

RT: 21.75 min Scan# 3219

Delta R.T. -0.02 min

Lab File: BG020055.D

Acq: 9 Dec 2015 22:32

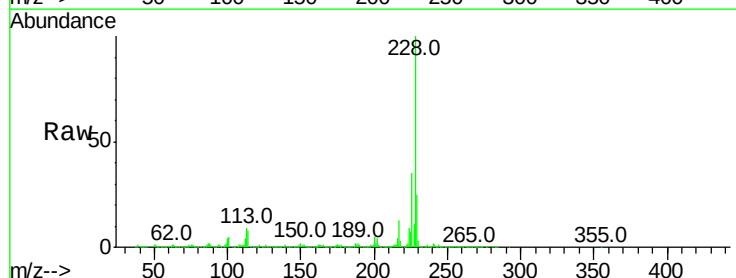
Tgt Ion:228 Resp: 1781035

Ion Ratio Lower Upper

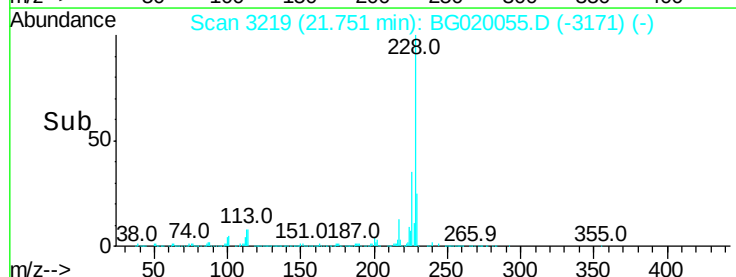
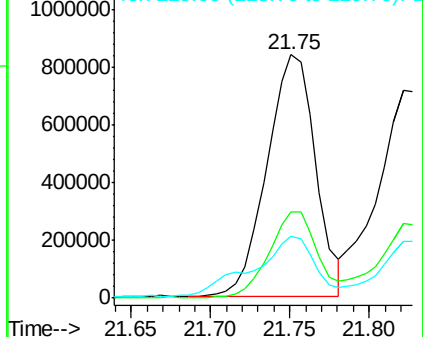
228 100

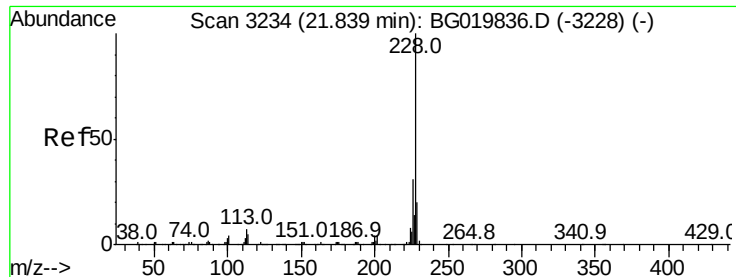
226 35.3 23.4 35.0#

229 25.5 16.6 25.0#



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: 135.55 ng/mL

RT: 21.82 min Scan# 3231

Delta R.T. -0.02 min

Lab File: BG020055.D

Acq: 9 Dec 2015 22:32

Instrument :

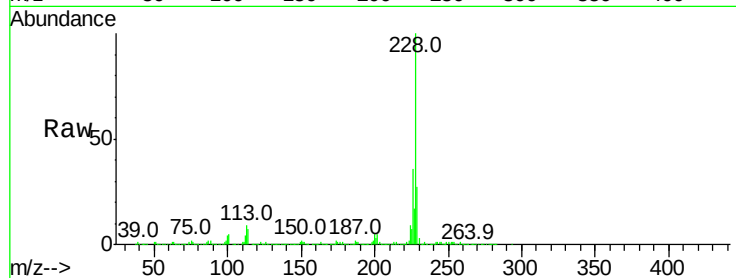
BNA_G

ClientSampleId :

KENT-PIT-1

Tot Ion:228 Resp: 1517857

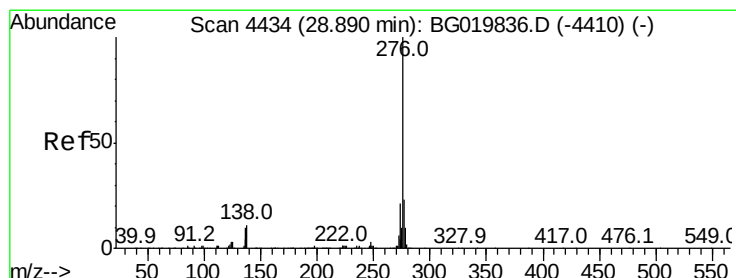
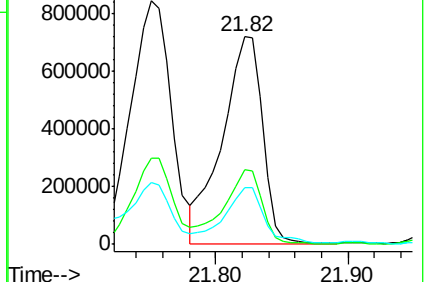
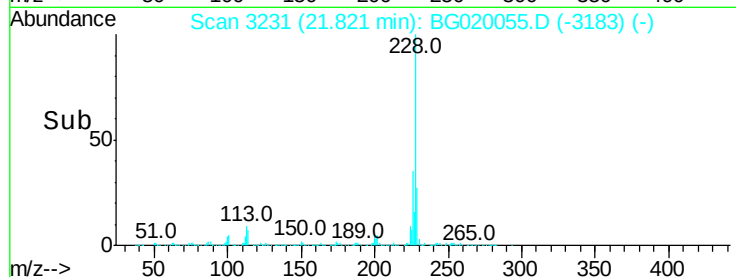
Ion	Ratio	Lower	Upper
228	100		
226	35.7	26.7	40.1
229	27.4	17.0	25.6



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: 97.50 ng/mL

RT: 28.86 min Scan# 4429

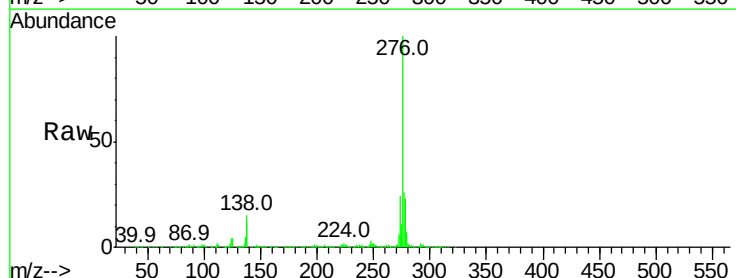
Delta R.T. -0.03 min

Lab File: BG020055.D

Acq: 9 Dec 2015 22:32

Tgt Ion:276 Resp: 1202630

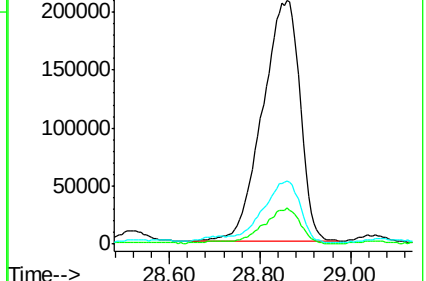
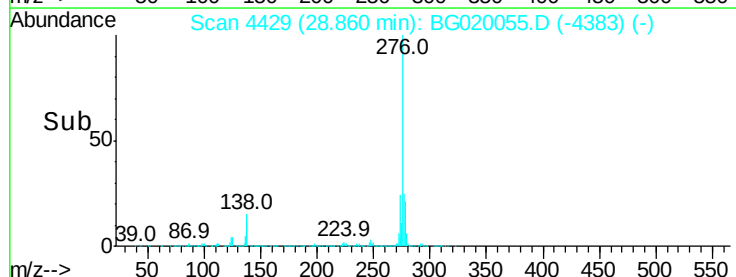
Ion	Ratio	Lower	Upper
276	100		
138	14.0	0.0	0.0
277	25.3	0.0	0.0

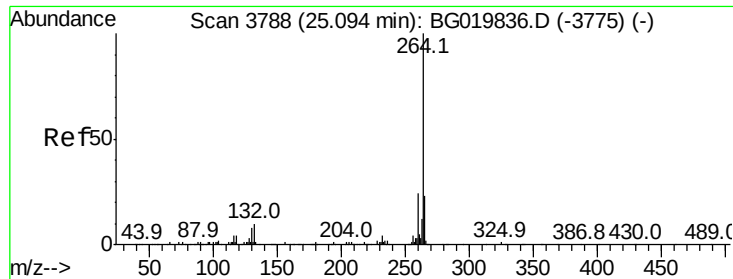


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#86

Pervlene-d12

Concen: 20.00 ng

RT: 25.06 min Scan# 3783

Delta R.T. -0.03 min

Lab File: BG020055.D

Acq: 9 Dec 2015 22:32

Instrument :

BNA_G

ClientSampleId :

KENT-PIT-1

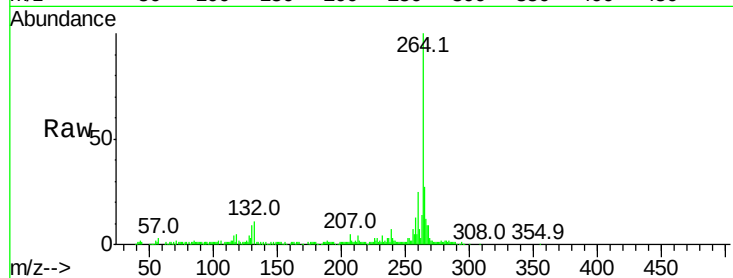
Tot Ion:264 Resp: 185740

Ion Ratio Lower Upper

264 100

260 24.8 18.5 27.7

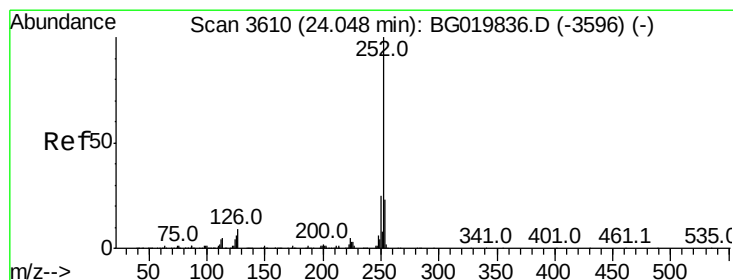
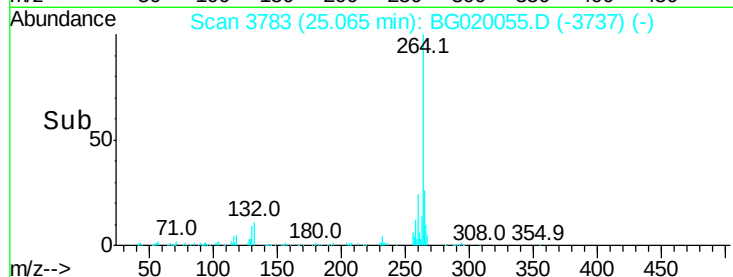
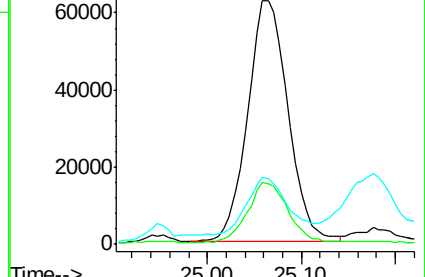
265 26.7 17.2 25.8#



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: 189.36 ng

RT: 24.04 min Scan# 3609

Delta R.T. -0.01 min

Lab File: BG020055.D

Acq: 9 Dec 2015 22:32

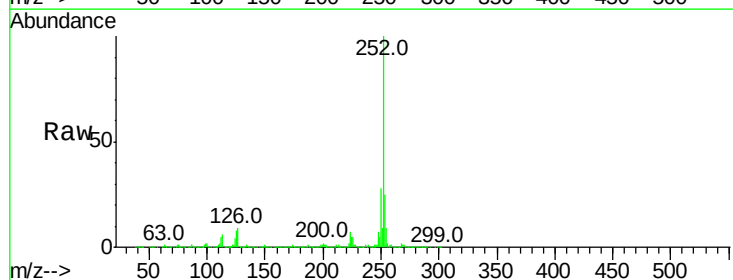
Tgt Ion:252 Resp: 2229134

Ion Ratio Lower Upper

252 100

253 25.1 19.1 28.7

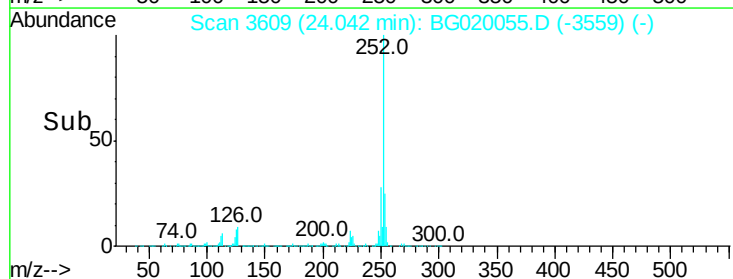
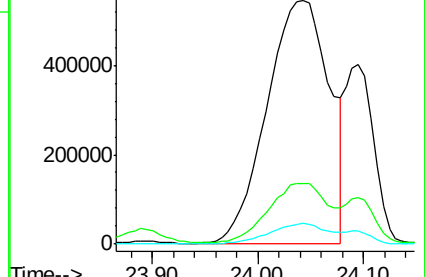
125 8.5 8.9 13.3#

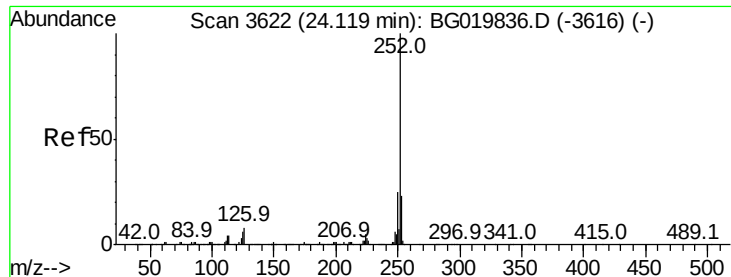


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 64.99 ng m

RT: 24.10 min Scan# 3618

Delta R.T. -0.02 min

Lab File: BG020055.D

Acq: 9 Dec 2015 22:32

Instrument :

BNA_G

ClientSampleId :

KENT-PIT-1

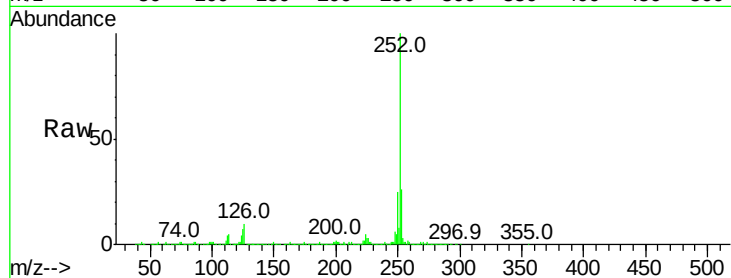
Tot Ion:252 Resp: 757679

Ion Ratio Lower Upper

252 100

253 26.0 19.0 28.4

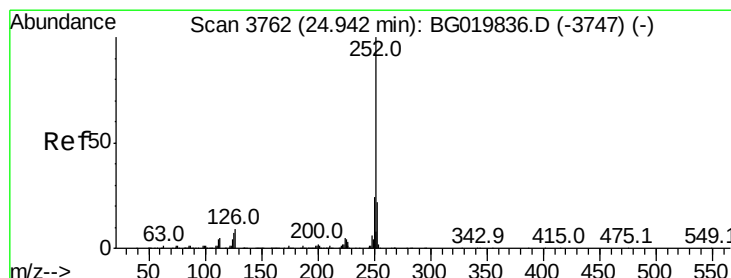
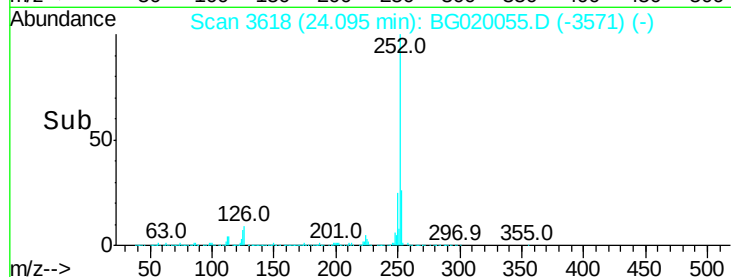
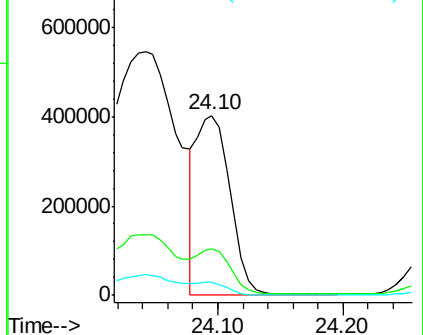
125 7.1 8.9 13.3#



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: 166.69 ng m

RT: 24.94 min Scan# 3762

Delta R.T. -0.00 min

Lab File: BG020055.D

Acq: 9 Dec 2015 22:32

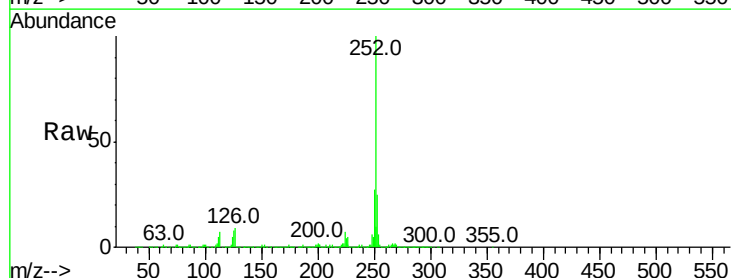
Tgt Ion:252 Resp: 1862942

Ion Ratio Lower Upper

252 100

253 25.5 18.7 28.1

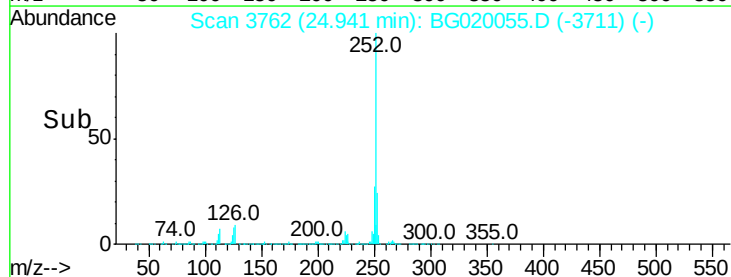
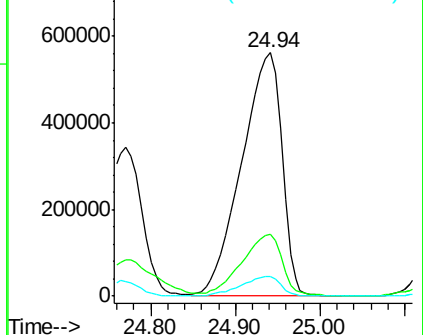
125 7.9 9.1 13.7#

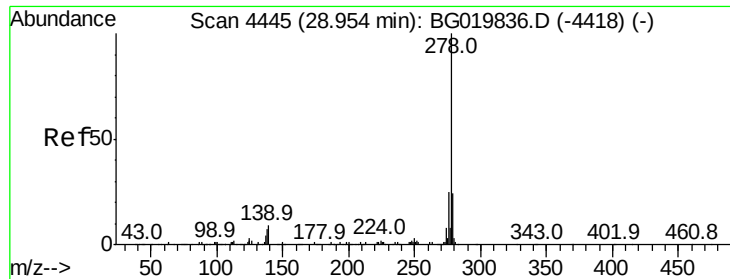


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Dibenzo(a,h)anthracene

Concen: 26.61 ng

RT: 28.89 min Scan# 4434

Delta R.T. -0.06 min

Lab File: BG020055.D

Acq: 9 Dec 2015 22:32

Instrument :

BNA_G

ClientSampleId :

KENT-PIT-1

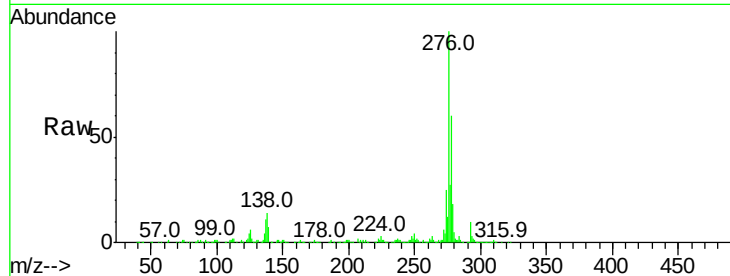
Tot Ion:278 Resp: 293851

Ion Ratio Lower Upper

278 100

139 11.1 13.8 20.6#

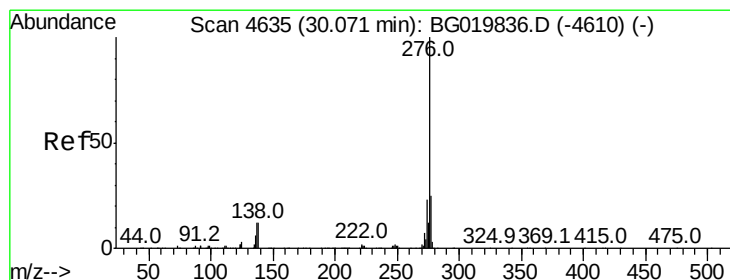
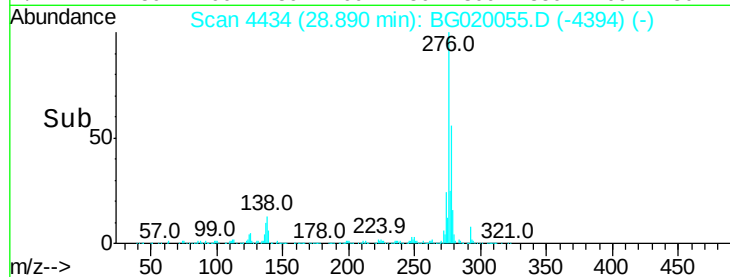
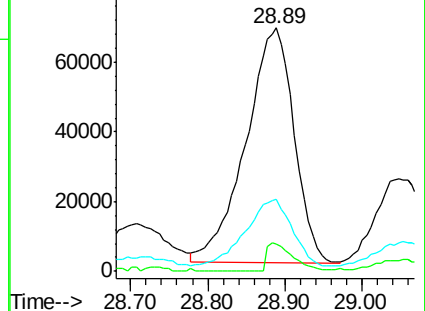
279 29.6 19.4 29.0#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 97.02 ng

RT: 30.04 min Scan# 4630

Delta R.T. -0.03 min

Lab File: BG020055.D

Acq: 9 Dec 2015 22:32

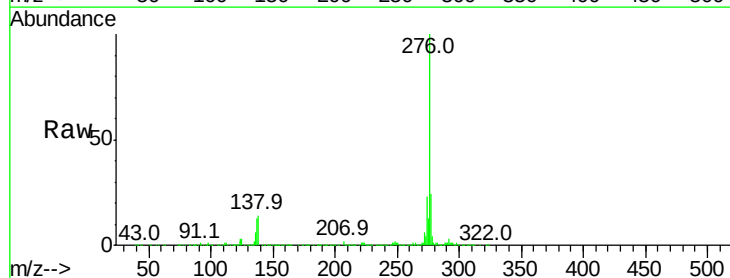
Tgt Ion:276 Resp: 1051879

Ion Ratio Lower Upper

276 100

277 24.4 18.4 27.6

138 14.3 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

