

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG053019\
 Data File : BG040949.D
 Acq On : 30 May 2019 13:13
 Operator : HP/JU
 Sample : K2944-05
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

Quant Time: May 30 15:10:27 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	70118	20.00	ng	0.00
21) Naphthalene-d8	10.94	136	290366	20.00	ng	0.00
39) Acenaphthene-d10	14.76	164	200291	20.00	ng	0.00
64) Phenanthrene-d10	17.50	188	454871	20.00	ng	0.00
76) Chrysene-d12	21.78	240	442026	20.00	ng	0.00
87) Perylene-d12	25.13	264	493428	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.66	112	580936	149.40	ng	0.00
7) Phenol-d6	7.27	99	873799	145.50	ng	0.00
23) Nitrobenzene-d5	9.30	82	611655	93.52	ng	0.00
42) 2,4,6-Tribromophenol	16.24	330	405506	136.38	ng	0.00
45) 2-Fluorobiphenyl	13.38	172	1332465	95.81	ng	0.00
79) Terphenyl-d14	20.09	244	1799006	86.38	ng	0.00

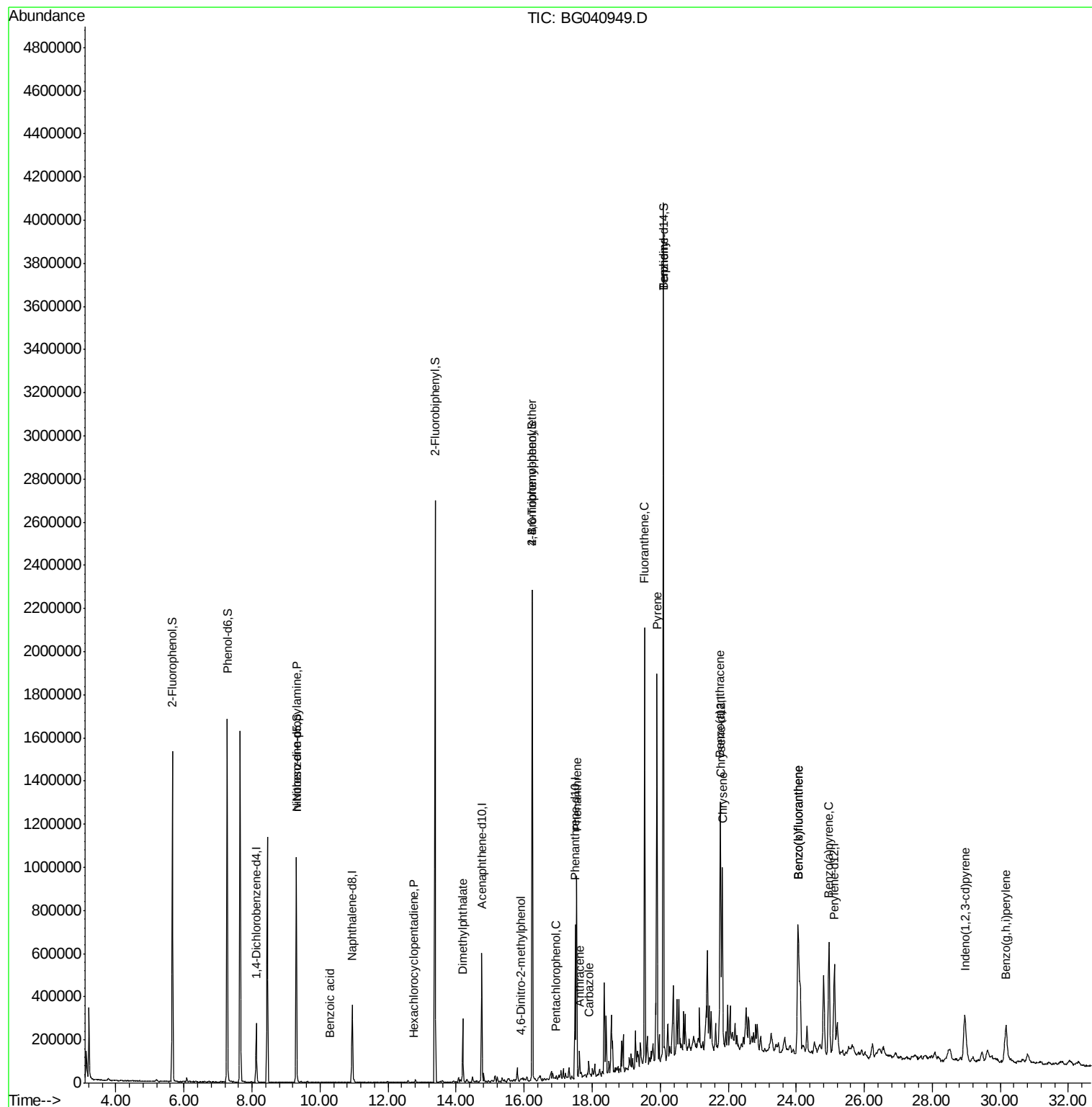
Target Compounds				Qvalue		
19) n-Nitroso-di-n-propylamine	9.30	70	87072	18.841	ng	# 75
32) Benzoic acid	10.29	122	66	8.146	ng	# 32
41) Hexachlorocyclopentadiene	12.76	237	59	8.248	ng	# 26
50) Dimethylphthalate	14.19	163	183171	10.804	ng	99
65) 4,6-Dinitro-2-methylphenol	15.88	198	81	8.617	ng	# 36
67) 4-Bromophenyl-phenylether	16.24	248	31624	5.152	ng	# 1
70) Pentachlorophenol	16.93	266	59	4.272	ng	# 18
71) Phenanthrene	17.54	178	571065	24.102	ng	99
72) Anthracene	17.63	178	77986	3.337	ng	97
73) Carbazole	17.90	167	42061	2.098	ng	97
75) Fluoranthene	19.55	202	1281902	43.803	ng	98
77) Benzidine	20.09	184	33841	3.209	ng	# 93
78) Pvrene	19.90	202	1194324	41.564	ng	99
81) Benzo(a)anthracene	21.76	228	645081	21.924	ng	98
83) Chrysene	21.82	228	640193	22.736	ng	97
86) Indeno(1,2,3-cd)pyrene	28.96	276	423629	12.282	ng	# 97
88) Benzo(b)fluoranthene	24.05	252	834878	27.896	ng	100
89) Benzo(k)fluoranthene	24.05	252	834878	28.190	ng	98
90) Benzo(a)pvrene	24.96	252	617906	21.640	ng	99
92) Benzo(a,h,i)perylene	30.17	276	397638	14.346	ng	96

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

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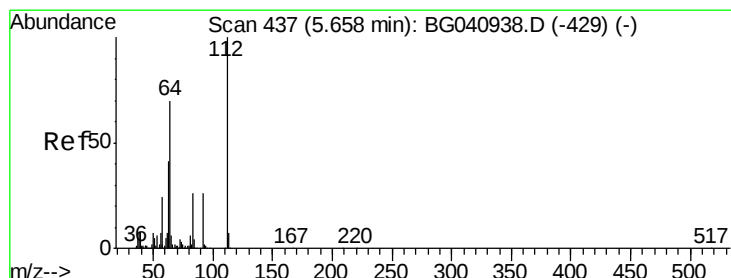
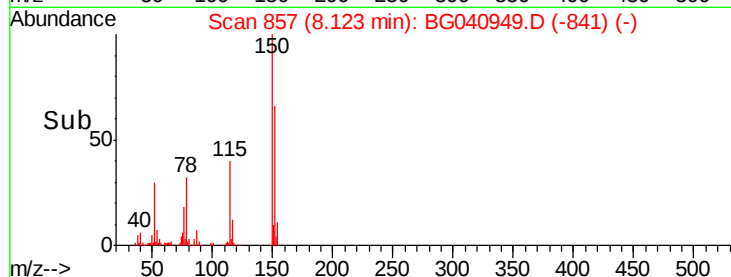
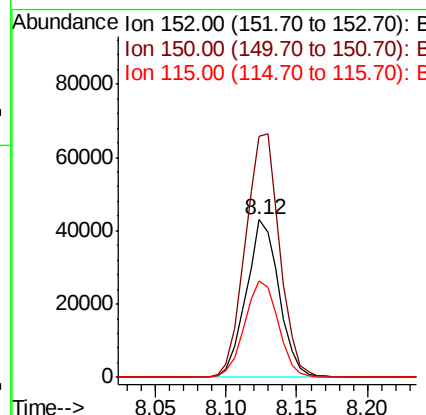
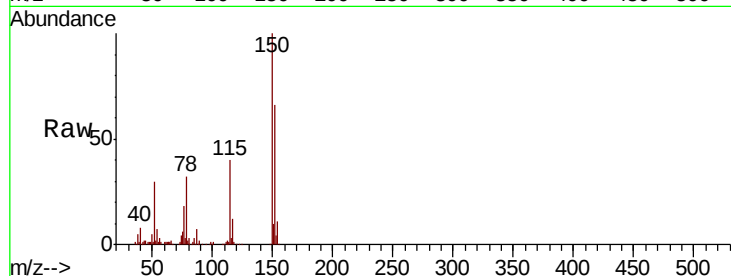


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.12 min Scan# 857
Delta R.T. -0.01 min
Lab File: BG040949.D
Acq: 30 May 2019 13:13

Instrument :
BNA_G
ClientSampleId :

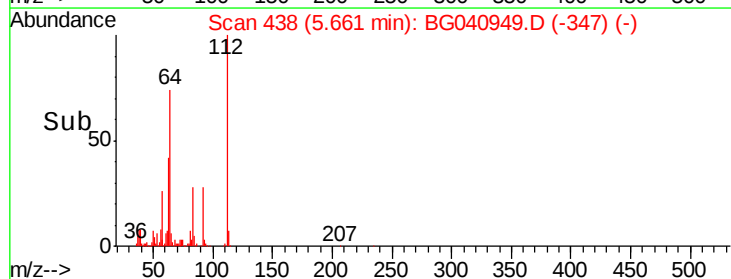
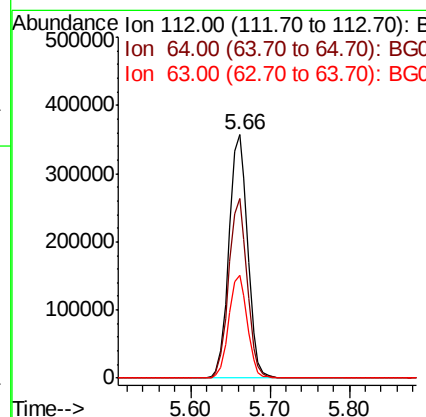
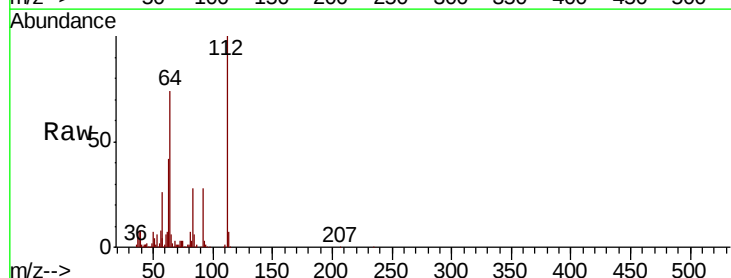
Tot Ion	Ratio	Lower	Upper
152	100		
150	152.5	120.6	180.8
115	61.3	45.1	67.7



#5

2-Fluorophenol
Concen: 149.398 ng
RT: 5.66 min Scan# 438
Delta R.T. 0.00 min
Lab File: BG040949.D
Acq: 30 May 2019 13:13

Tgt Ion	Ratio	Lower	Upper
112	100		
64	73.8	56.2	84.2
63	42.4	32.8	49.2





#7

Phenol-d6

Concen: 145.502 ng

RT: 7.27 min Scan# 712

Delta R.T. 0.00 min

Lab File: BG040949.D

Acq: 30 May 2019 13:13

Instrument :

BNA_G

ClientSampleId :

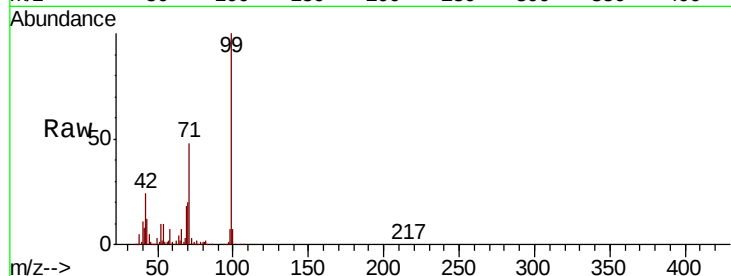
Tot Ion: 99 Resp: 873799

Ion Ratio Lower Upper

99 100

42 23.9 17.9 26.9

71 47.6 35.4 53.0

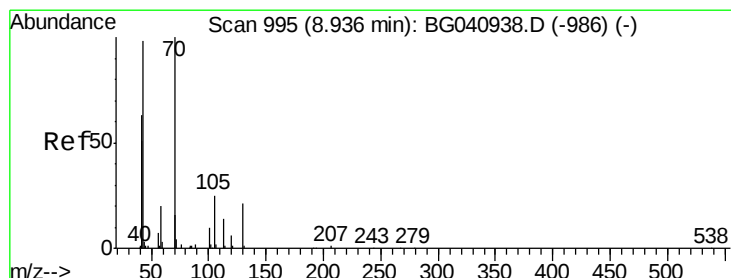
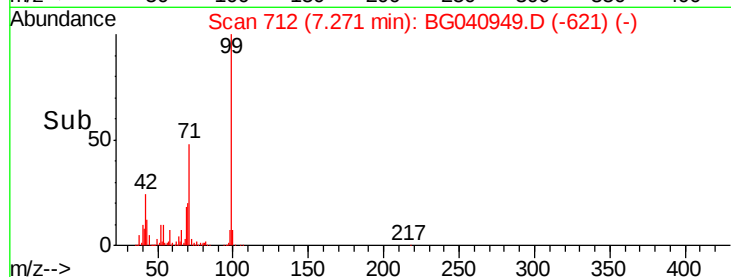
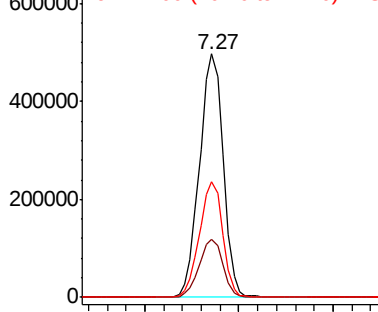


Abundance

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



#19

n-Nitroso-di-n-propylamine

Concen: 18.841 ng

RT: 9.30 min Scan# 1058

Delta R.T. 0.37 min

Lab File: BG040949.D

Acq: 30 May 2019 13:13

Tgt Ion: 70 Resp: 87072

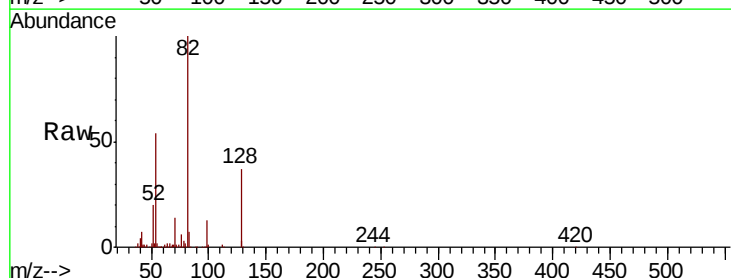
Ion Ratio Lower Upper

70 100

42 49.0 51.5 77.3#

101 0.0 8.1 12.1#

130 2.1 16.6 24.8#



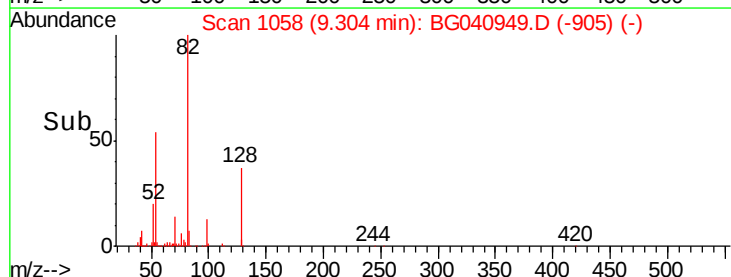
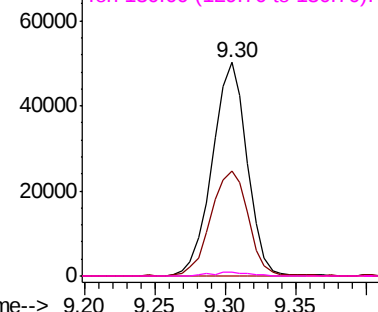
Abundance

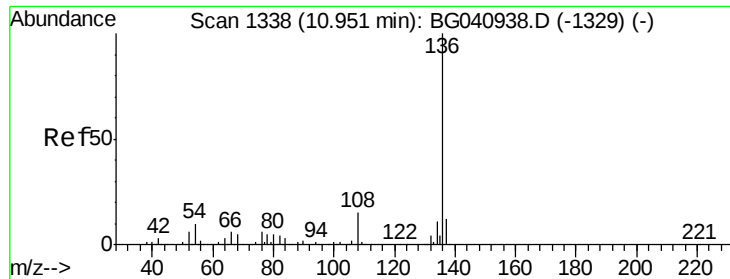
Ion 70.00 (69.70 to 70.70): BGC

Ion 42.00 (41.70 to 42.70): BGC

Ion 101.00 (100.70 to 101.70): BGC

Ion 130.00 (129.70 to 130.70): BGC

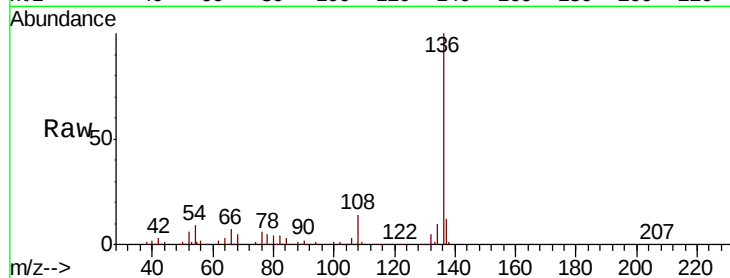




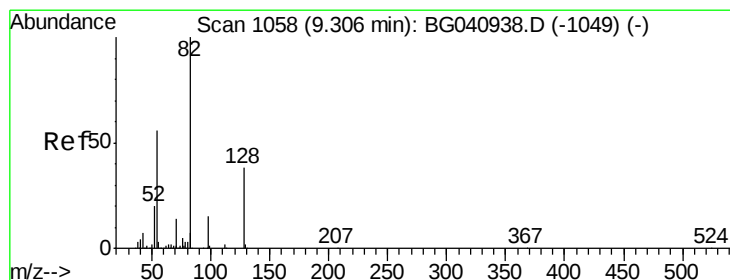
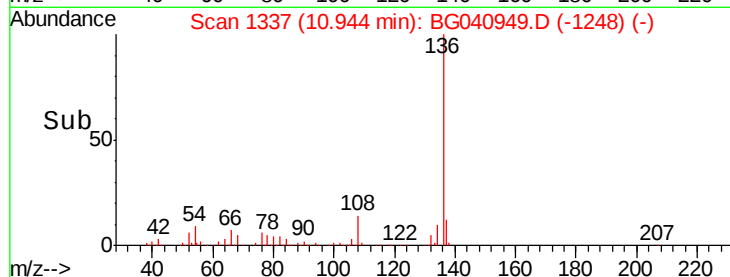
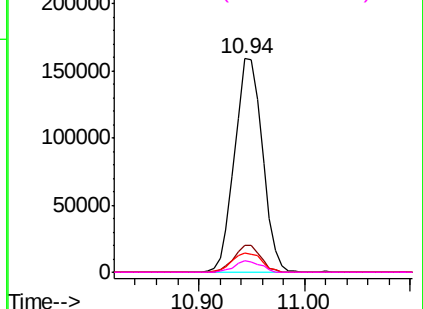
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.94 min Scan# 1337
Delta R.T. -0.01 min
Lab File: BG040949.D
Acq: 30 May 2019 13:13

Instrument :
BNA_G
ClientSampled :

Tot Ion:136	Resp:	290366
Ion Ratio	Lower	Upper
136	100	
137	12.4	9.5 14.3
54	9.8	7.6 11.4
68	5.4	3.9 5.9

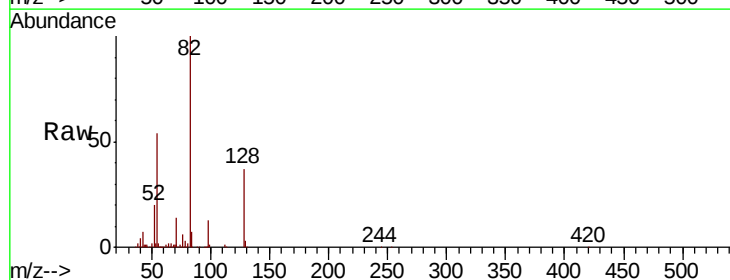


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BGC
Ion 68.00 (67.70 to 68.70): BGC

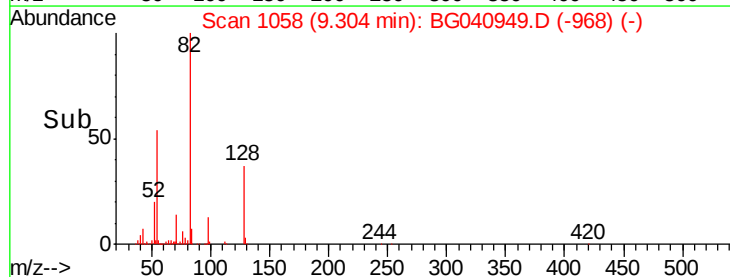
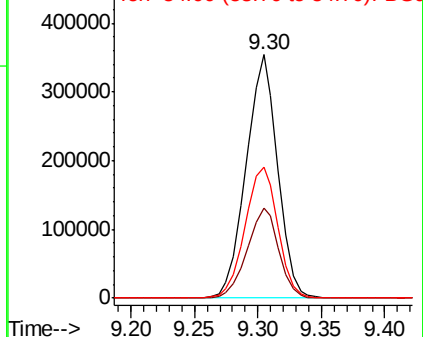


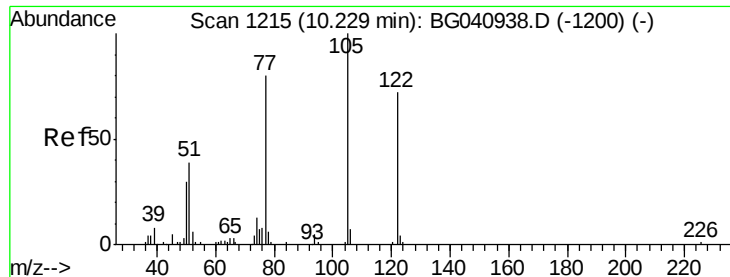
#23
Nitrobenzene-d5
Concen: 93.515 ng
RT: 9.30 min Scan# 1058
Delta R.T. -0.00 min
Lab File: BG040949.D
Acq: 30 May 2019 13:13

Tgt Ion: 82	Resp:	611655
Ion Ratio	Lower	Upper
82	100	
128	36.9	30.5 45.7
54	53.9	44.6 66.8



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





#32

Benzoic acid

Concen: 8.146 ng

RT: 10.29 min Scan# 1226

Delta R.T. 0.06 min

Lab File: BG040949.D

Acq: 30 May 2019 13:13

Instrument :

BNA_G

ClientSampleId :

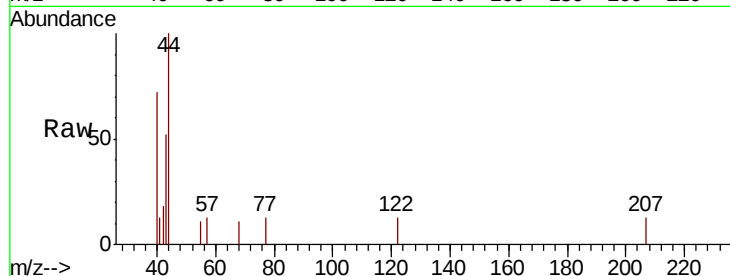
Tot Ion:122 Resp: 66

Ion Ratio Lower Upper

122 100

105 0.0 114.8 154.8#

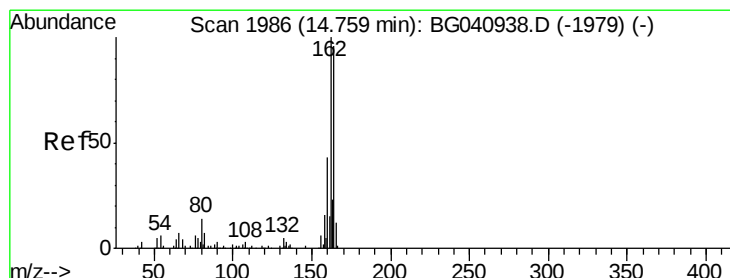
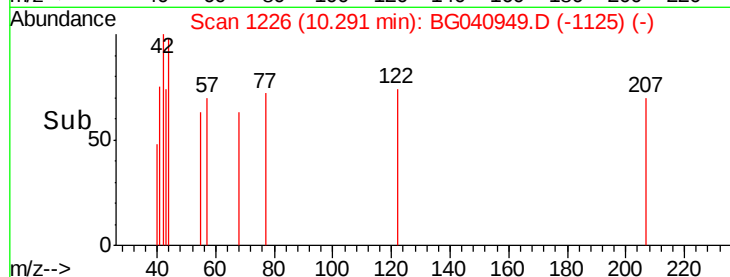
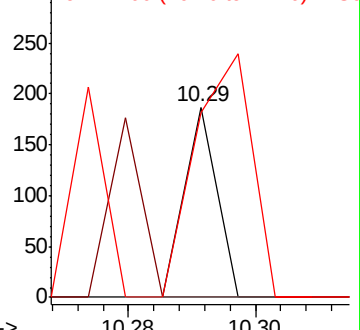
77 97.3 89.9 129.9



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BGC



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.76 min Scan# 1986

Delta R.T. -0.00 min

Lab File: BG040949.D

Acq: 30 May 2019 13:13

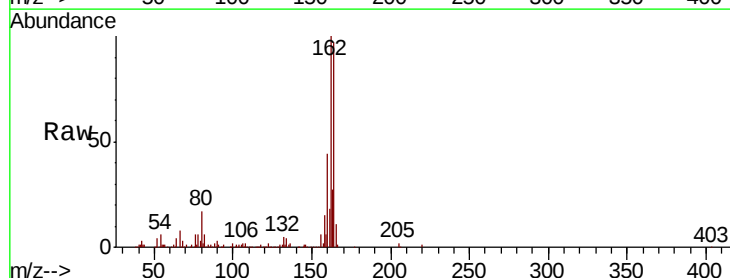
Tgt Ion:164 Resp: 200291

Ion Ratio Lower Upper

164 100

162 103.2 83.0 124.4

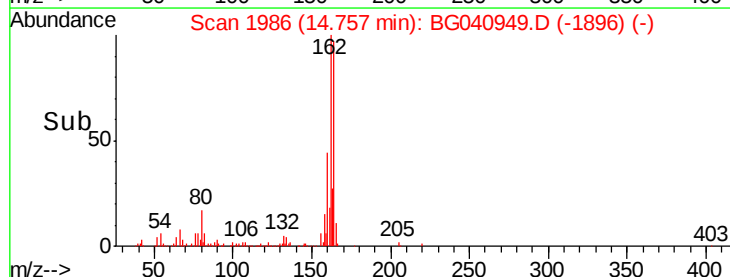
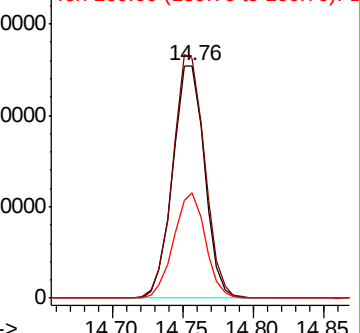
160 45.2 35.6 53.4

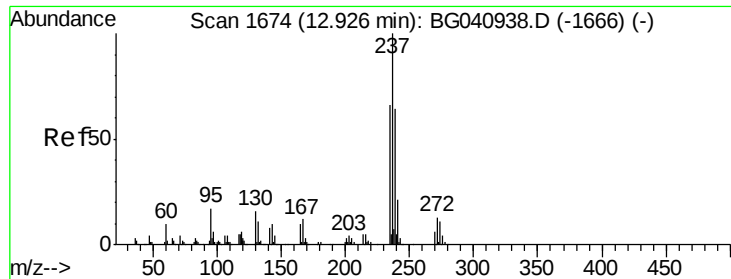


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#41

Hexachlorocyclopentadiene

Concen: 8.248 ng

RT: 12.76 min Scan# 1646

Delta R.T. -0.17 min

Lab File: BG040949.D

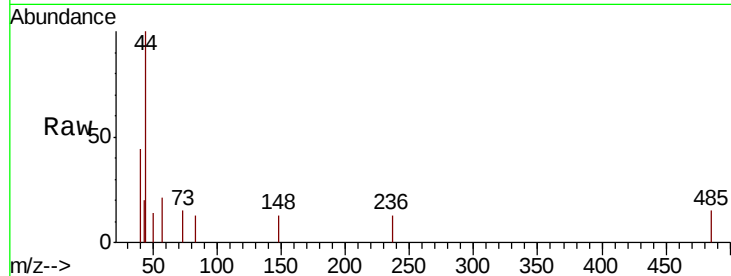
Acq: 30 May 2019 13:13

Instrument :

BNA_G

ClientSampleId :

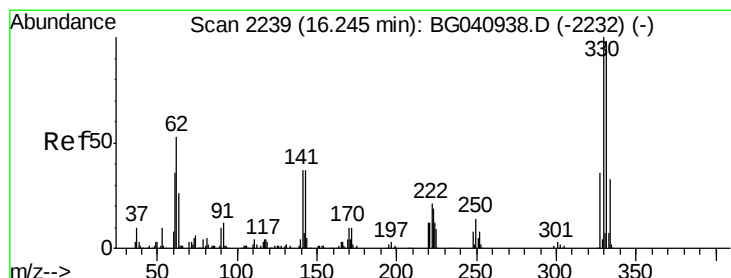
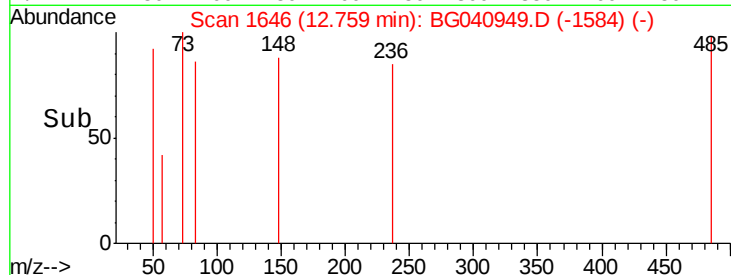
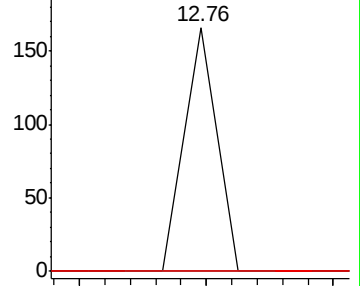
Tot Ion:	237	Resp:	59
Ion	Ratio	Lower	Upper
237	100		
235	0.0	45.5	85.5#
272	0.0	0.0	32.9



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: 136.375 ng

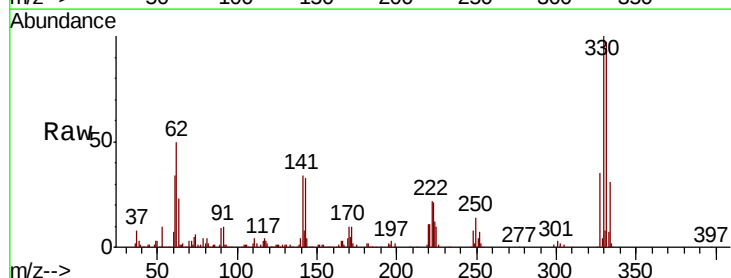
RT: 16.24 min Scan# 2239

Delta R.T. -0.00 min

Lab File: BG040949.D

Acq: 30 May 2019 13:13

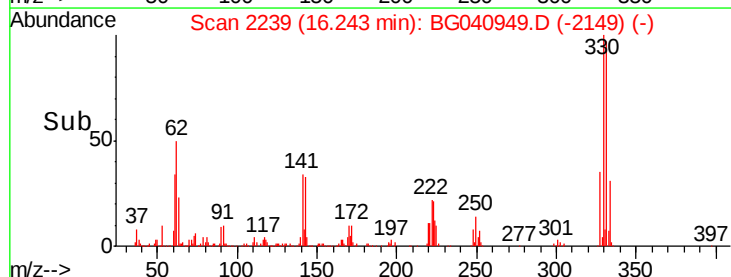
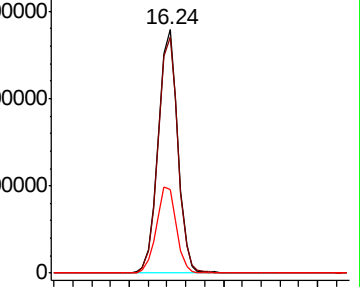
Tgt Ion:	330	Resp:	405506
Ion	Ratio	Lower	Upper
330	100		
332	98.1	78.5	117.7
141	36.2	28.7	43.1

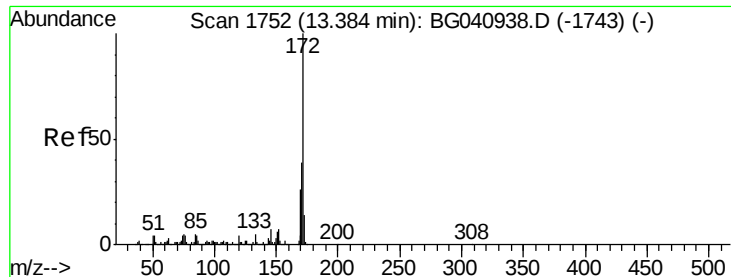


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

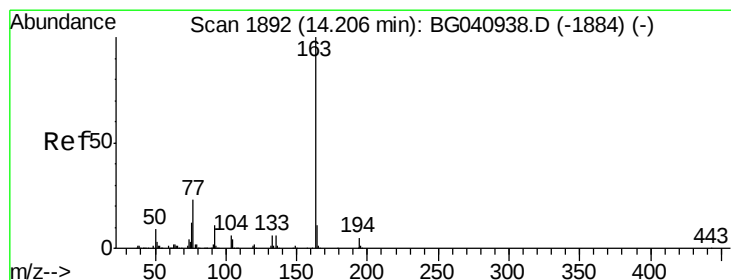
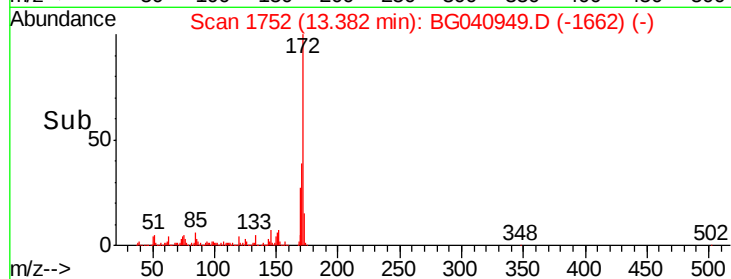
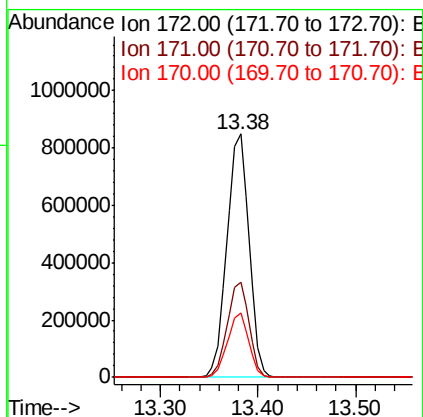
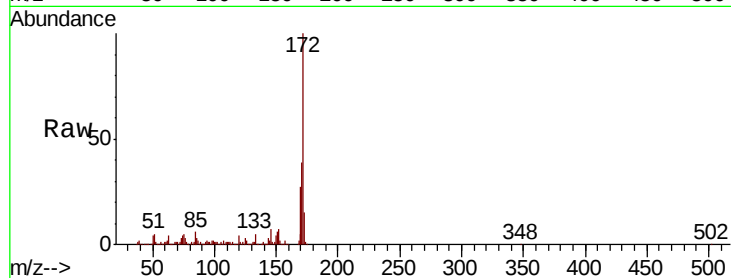




#45
2-Fluorobiphenyl
Concen: 95.805 ng
RT: 13.38 min Scan# 1752
Delta R.T. -0.00 min
Lab File: BG040949.D
Acq: 30 May 2019 13:13

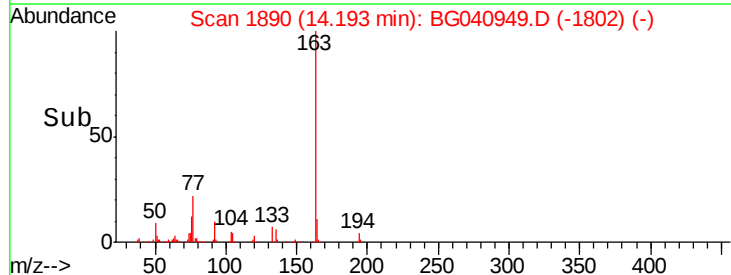
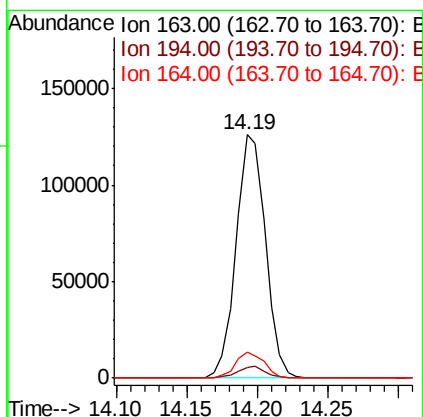
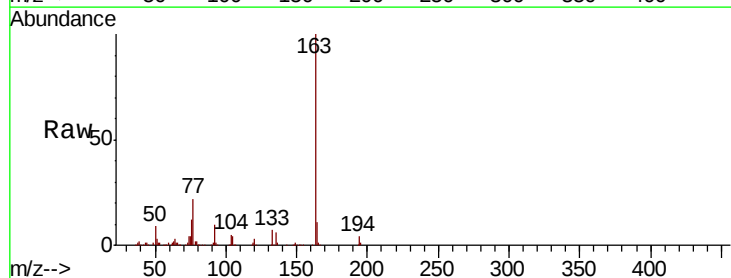
Instrument :
BNA_G
ClientSampleId :

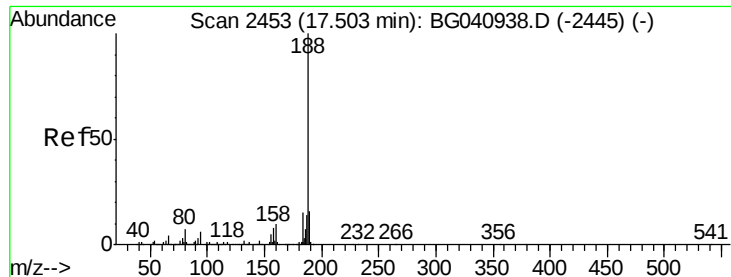
Tot Ion:172 Resp: 1332465
Ion Ratio Lower Upper
172 100
171 38.9 31.1 46.7
170 26.6 20.5 30.7



#50
Dimethylphthalate
Concen: 10.804 ng
RT: 14.19 min Scan# 1890
Delta R.T. -0.01 min
Lab File: BG040949.D
Acq: 30 May 2019 13:13

Tgt Ion:163 Resp: 183171
Ion Ratio Lower Upper
163 100
194 4.2 3.8 5.8
164 10.9 8.7 13.1





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.50 min Scan# 2453

Delta R.T. -0.00 min

Lab File: BG040949.D

Acq: 30 May 2019 13:13

Instrument :

BNA_G

ClientSampleId :

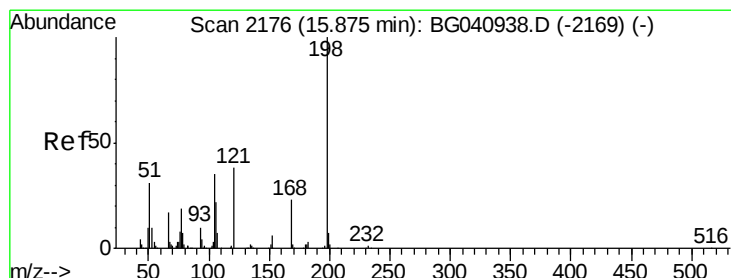
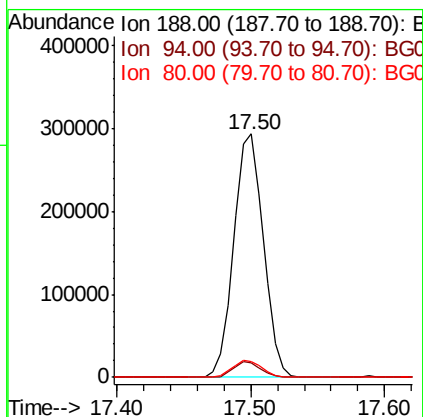
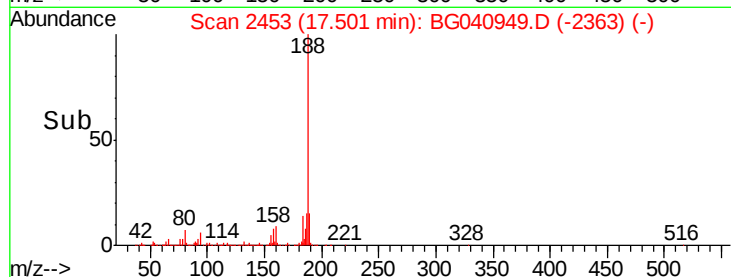
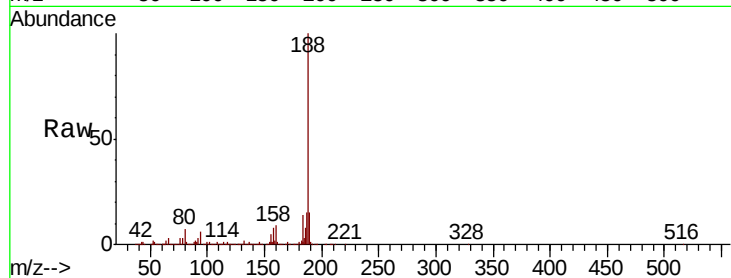
Tot Ion:188 Resp: 454871

Ion Ratio Lower Upper

188 100

94 5.8 4.7 7.1

80 6.7 5.8 8.8



#65

4,6-Dinitro-2-methylphenol

Concen: 8.617 ng

RT: 15.88 min Scan# 2178

Delta R.T. 0.01 min

Lab File: BG040949.D

Acq: 30 May 2019 13:13

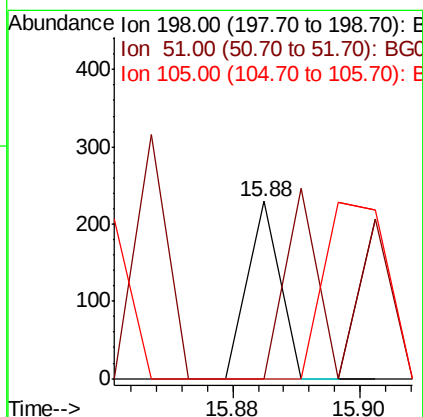
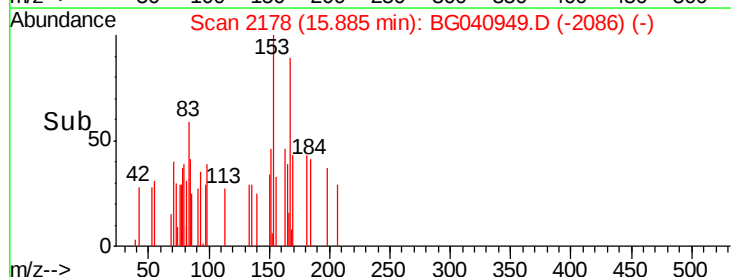
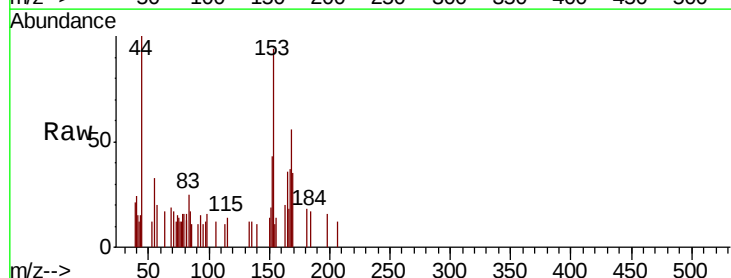
Tgt Ion:198 Resp: 81

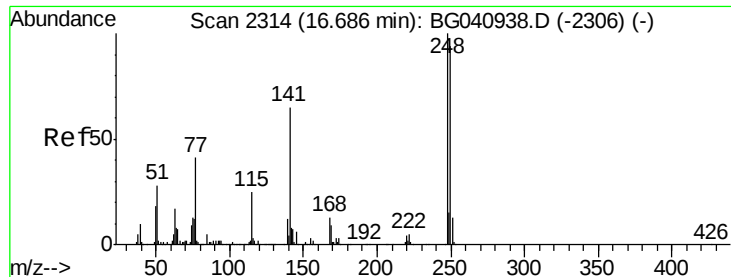
Ion Ratio Lower Upper

198 100

51 0.0 21.6 61.6#

105 0.0 17.5 57.5#

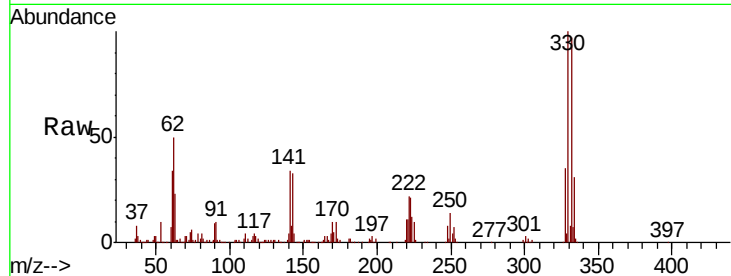




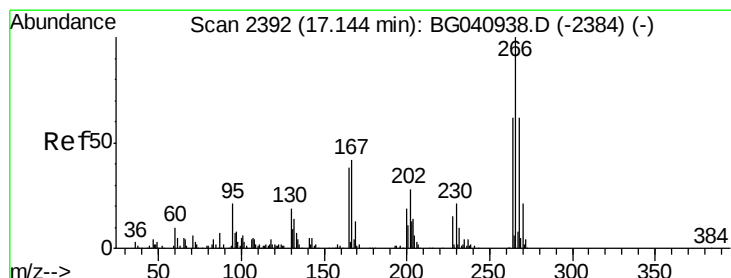
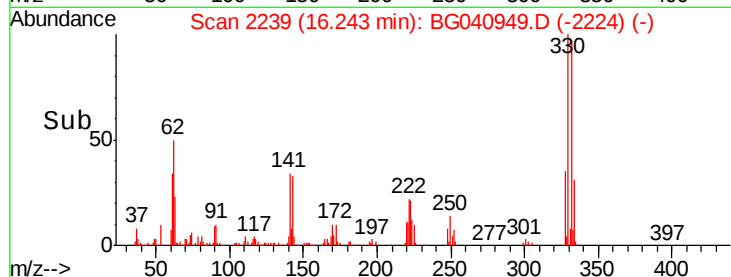
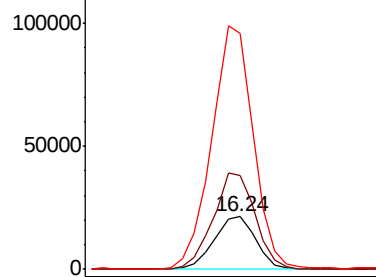
#67
 4-Bromophenyl-phenylether
 Concen: 5.152 ng
 RT: 16.24 min Scan# 2239
 Delta R.T. -0.44 min
 Lab File: BG040949.D
 Acq: 30 May 2019 13:13

Instrument :
 BNA_G
 ClientSampled :

Tot Ion:248 Resp: 31624
 Ion Ratio Lower Upper
 248 100
 250 178.0 75.0 112.4#
 141 447.7 52.4 78.6#

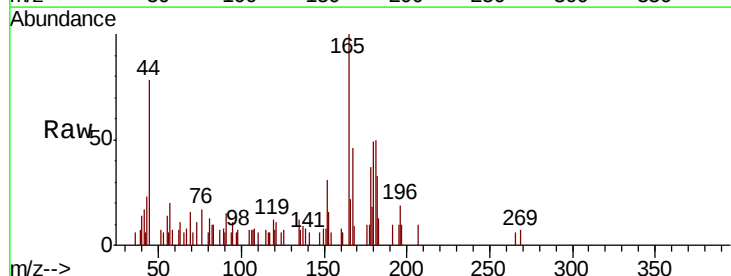


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

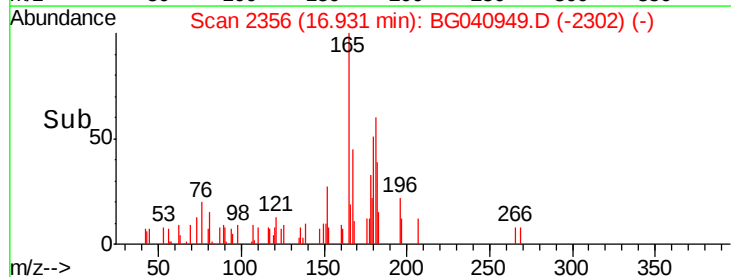
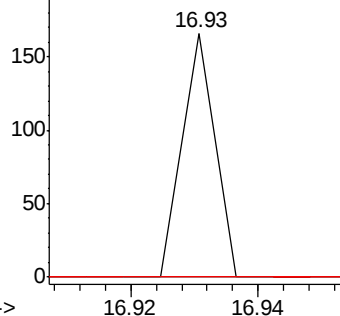


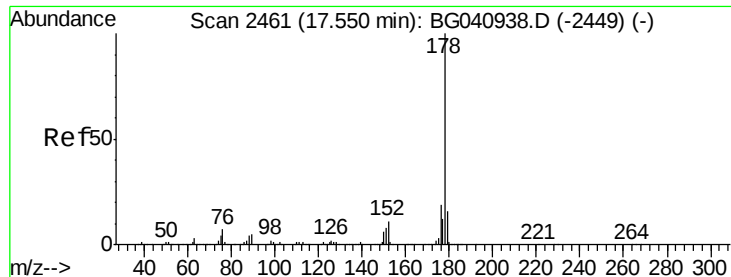
#70
 Pentachlorophenol
 Concen: 4.272 ng
 RT: 16.93 min Scan# 2356
 Delta R.T. -0.21 min
 Lab File: BG040949.D
 Acq: 30 May 2019 13:13

Tgt Ion:266 Resp: 59
 Ion Ratio Lower Upper
 266 100
 268 0.0 53.1 79.7#
 264 0.0 49.9 74.9#



Abundance Ion 265.70 (265.40 to 266.40): E
 Ion 268.00 (267.70 to 268.70): E
 Ion 264.00 (263.70 to 264.70): E





#71

Phenanthrene

Concen: 24.102 ng

RT: 17.54 min Scan# 2460

Delta R.T. -0.01 min

Lab File: BG040949.D

Acq: 30 May 2019 13:13

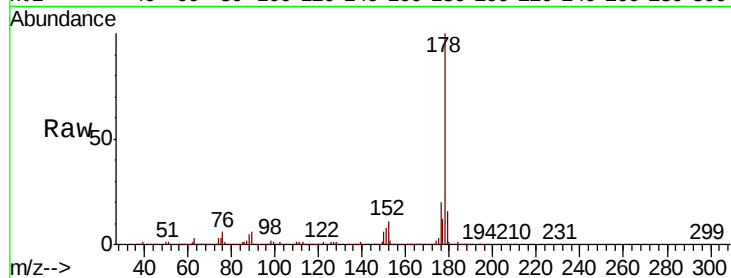
Instrument :

BNA_G

ClientSampled :

Tot Ion:178 Resp: 571065

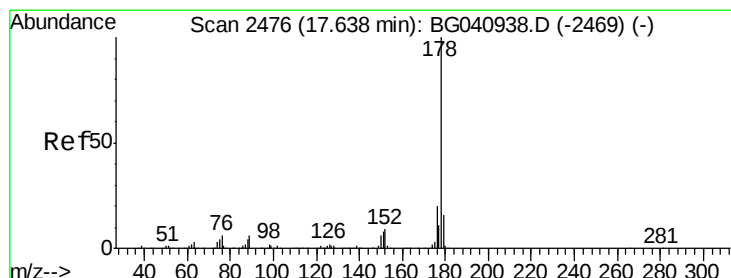
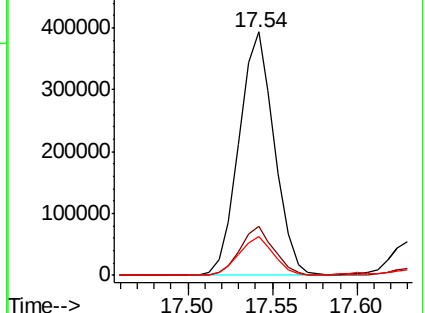
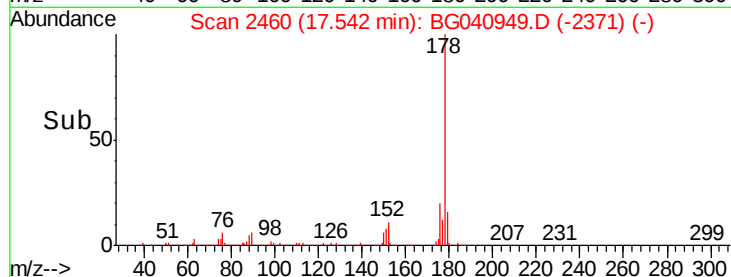
Ion	Ratio	Lower	Upper
178	100		
176	19.9	15.5	23.3
179	16.0	12.7	19.1



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

Anthracene

Concen: 3.337 ng

RT: 17.63 min Scan# 2475

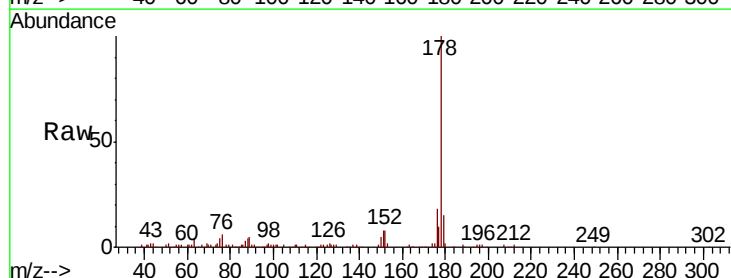
Delta R.T. -0.01 min

Lab File: BG040949.D

Acq: 30 May 2019 13:13

Tgt Ion:178 Resp: 77986

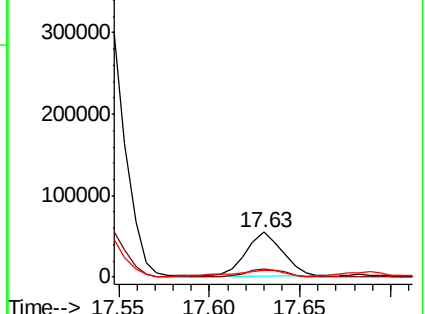
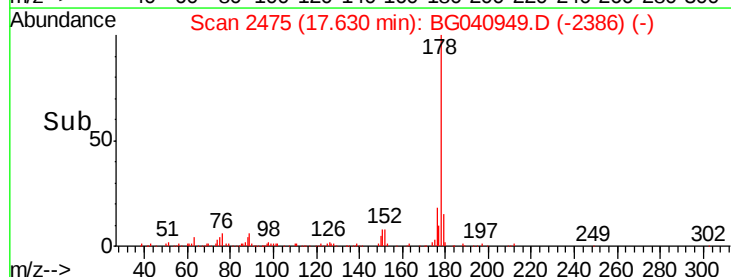
Ion	Ratio	Lower	Upper
178	100		
176	18.1	15.6	23.4
179	15.4	13.0	19.4

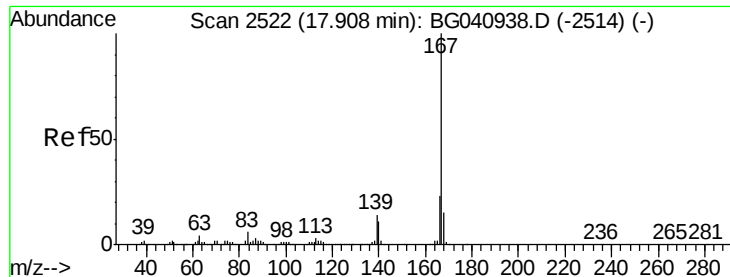


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

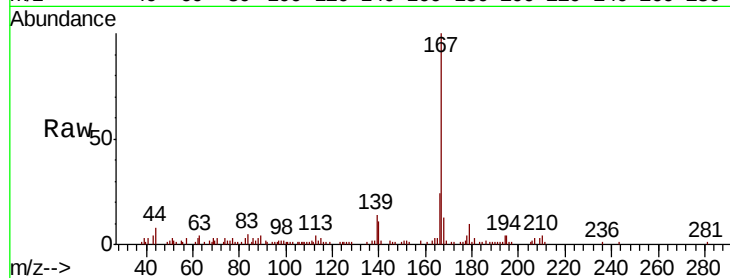




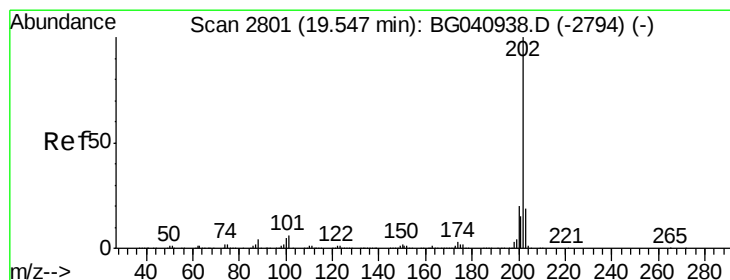
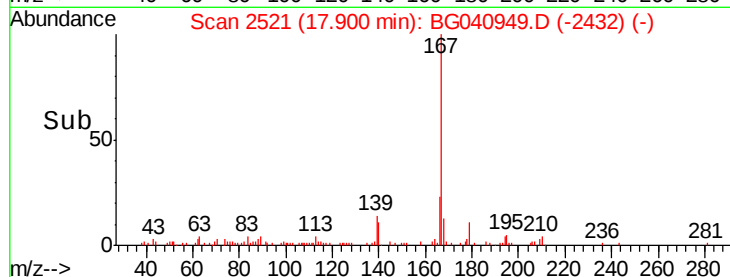
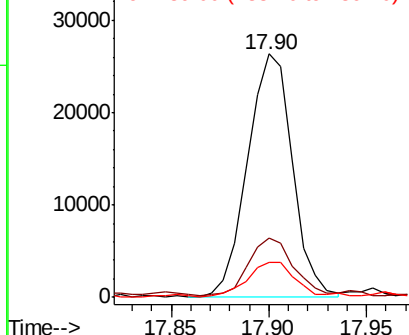
#73
 Carbazole
 Concen: 2.098 ng
 RT: 17.90 min Scan# 2521
 Delta R.T. -0.01 min
 Lab File: BG040949.D
 Acq: 30 May 2019 13:13

Instrument :
 BNA_G
 ClientSampleId :

Tot Ion:167 Resp: 42061
 Ion Ratio Lower Upper
 167 100
 166 24.2 18.2 27.4
 139 14.3 10.8 16.2

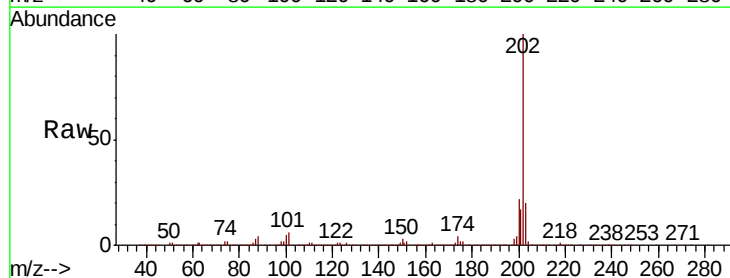


Abundance Ion 167.00 (166.70 to 167.70): E
 Ion 166.00 (165.70 to 166.70): E
 Ion 139.00 (138.70 to 139.70): E

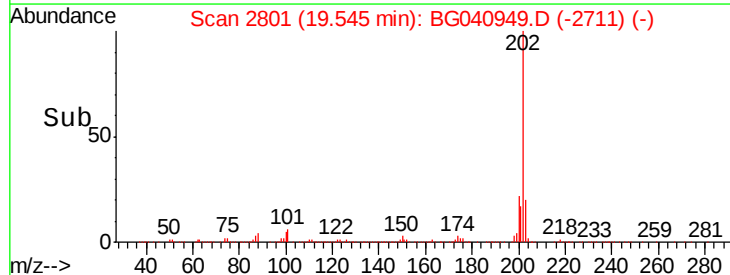
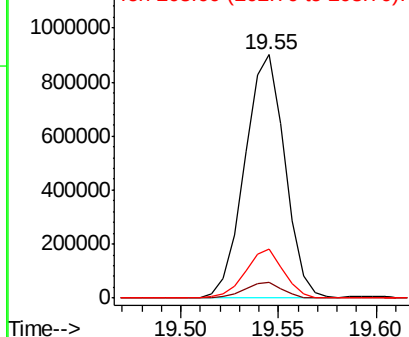


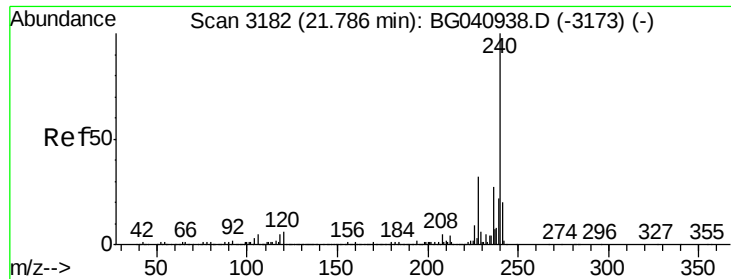
#75
 Fluoranthene
 Concen: 43.803 ng
 RT: 19.55 min Scan# 2801
 Delta R.T. -0.00 min
 Lab File: BG040949.D
 Acq: 30 May 2019 13:13

Tgt Ion:202 Resp: 1281902
 Ion Ratio Lower Upper
 202 100
 101 6.3 0.0 26.2
 203 19.9 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

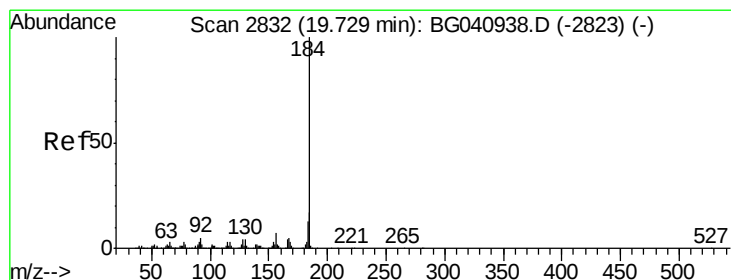
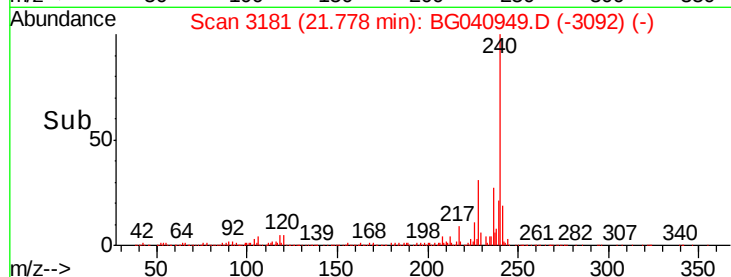
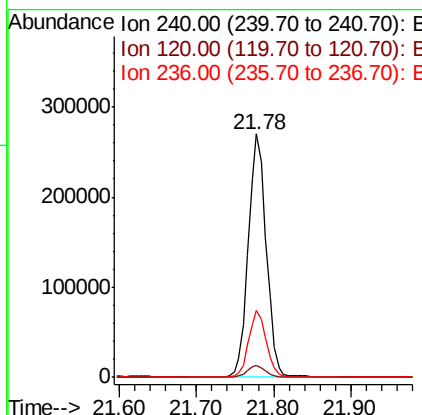
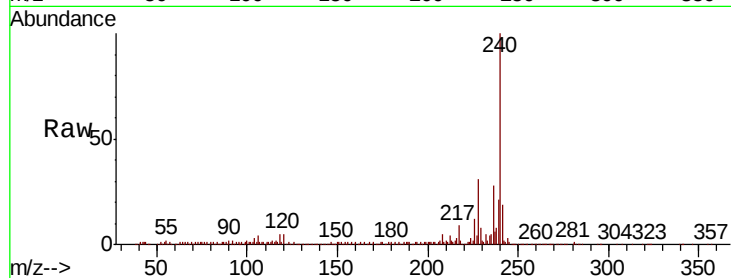




#76
 Chrvsene-d12
 Concen: 20.000 ng
 RT: 21.78 min Scan# 3181
 Delta R.T. -0.01 min
 Lab File: BG040949.D
 Acq: 30 May 2019 13:13

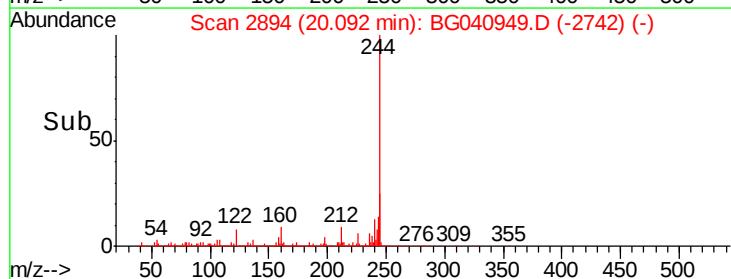
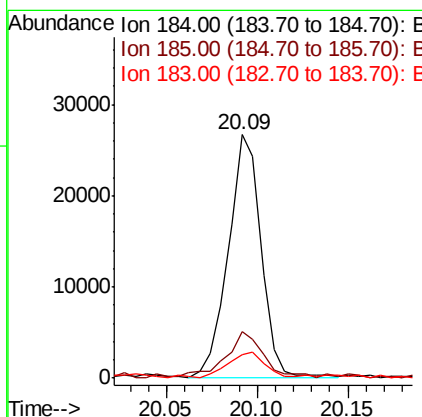
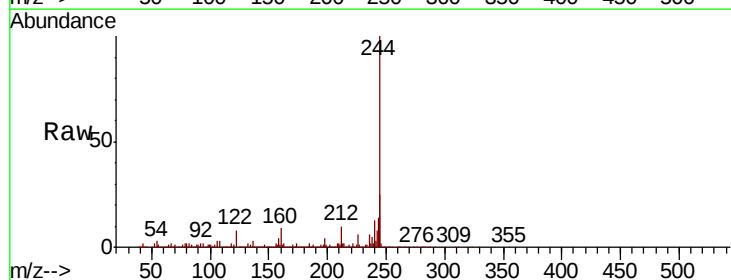
Instrument :
 BNA_G
 ClientSampleId :

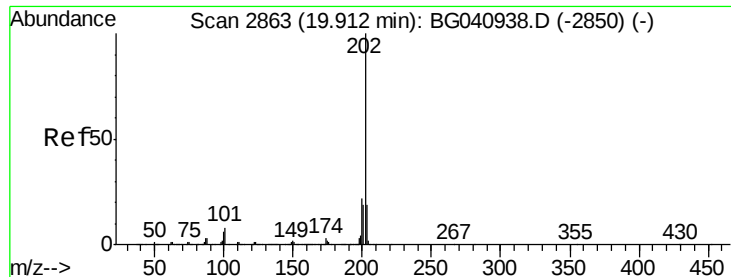
Tot Ion:240 Resp: 442026
 Ion Ratio Lower Upper
 240 100
 120 4.9 4.5 6.7
 236 27.6 21.3 31.9



#77
 Benzidine
 Concen: 3.209 ng
 RT: 20.09 min Scan# 2894
 Delta R.T. 0.36 min
 Lab File: BG040949.D
 Acq: 30 May 2019 13:13

Tgt Ion:184 Resp: 33841
 Ion Ratio Lower Upper
 184 100
 185 18.9 13.3 19.9
 183 9.7 10.7 16.1#





#78

Pvrene

Concen: 41.564 ng

RT: 19.90 min Scan# 2862

Delta R.T. -0.01 min

Lab File: BG040949.D

Acq: 30 May 2019 13:13

Instrument :

BNA_G

ClientSampleId :

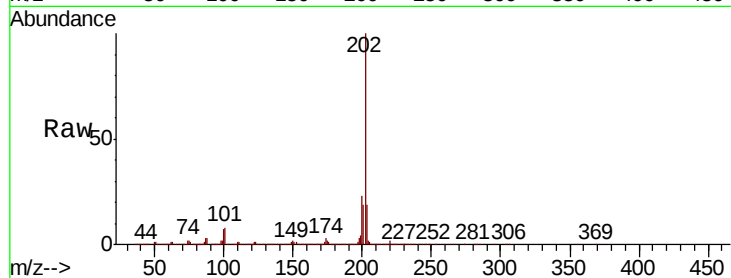
Tot Ion:202 Resp: 1194324

Ion Ratio Lower Upper

202 100

200 22.6 17.5 26.3

203 19.5 15.6 23.4

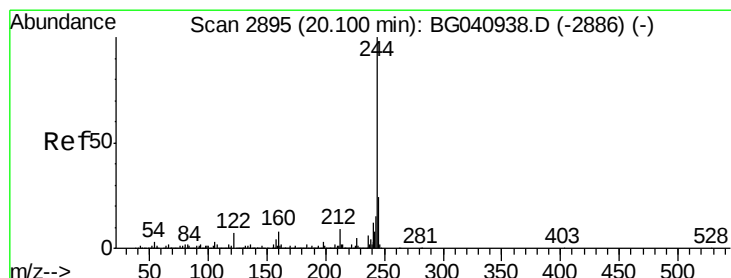
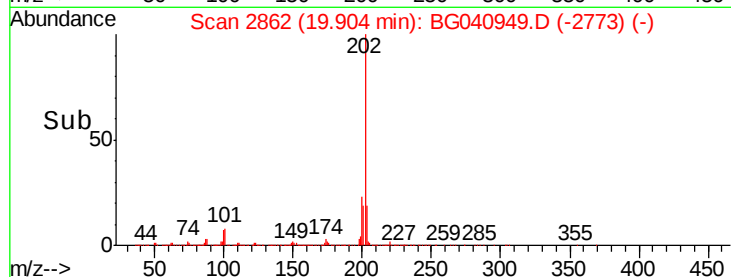
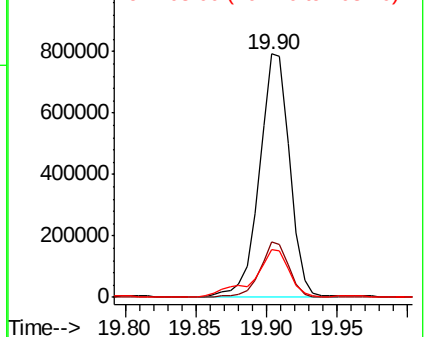


Abundance

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: 86.378 ng

RT: 20.09 min Scan# 2894

Delta R.T. -0.01 min

Lab File: BG040949.D

Acq: 30 May 2019 13:13

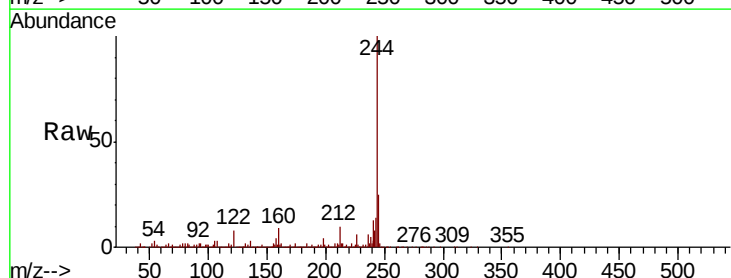
Tgt Ion:244 Resp: 1799006

Ion Ratio Lower Upper

244 100

212 9.5 7.0 10.4

122 7.9 5.4 8.0

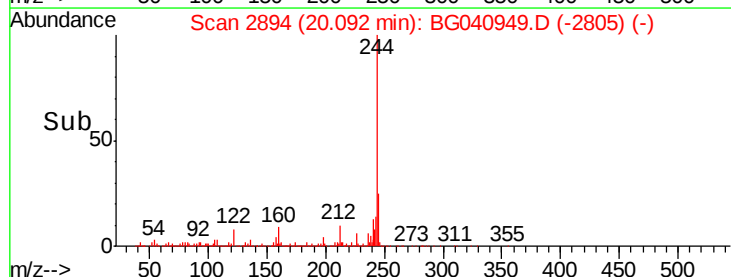
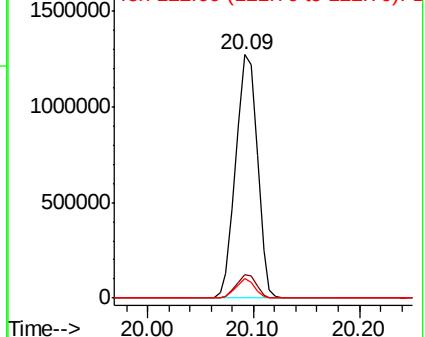


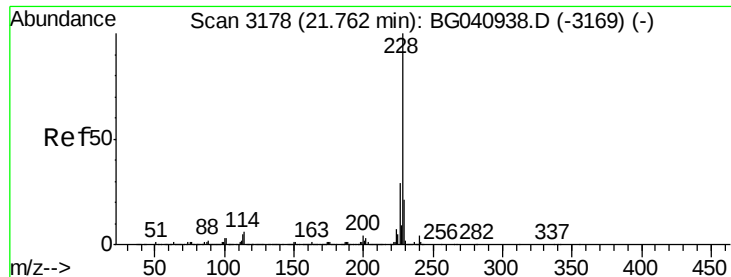
Abundance

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: 21.924 ng

RT: 21.76 min Scan# 3178

Delta R.T. -0.00 min

Lab File: BG040949.D

Acq: 30 May 2019 13:13

Instrument :

BNA_G

ClientSampleId :

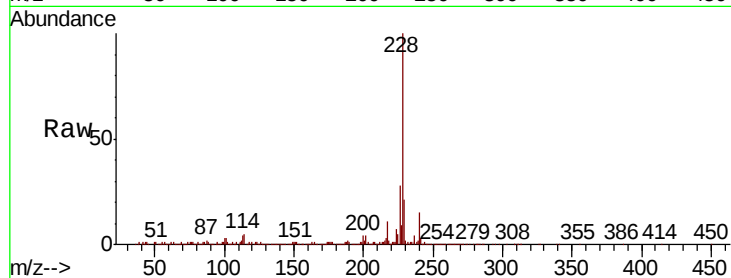
Tot Ion:228 Resp: 645081

Ion Ratio Lower Upper

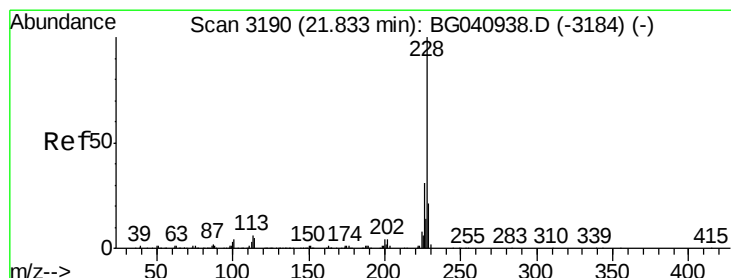
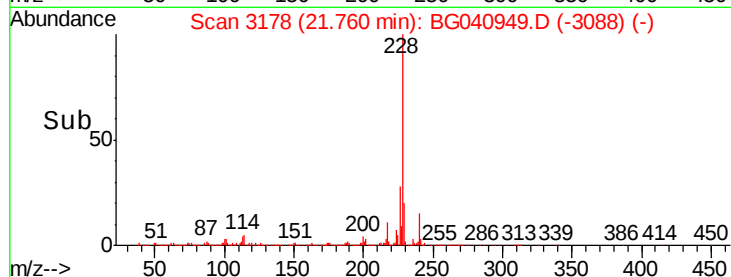
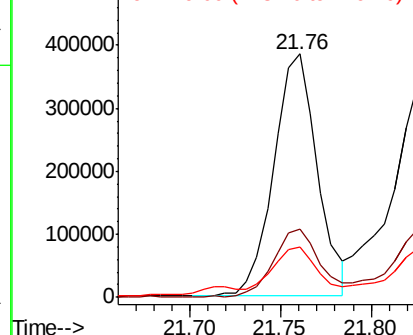
228 100

226 28.2 23.5 35.3

229 20.6 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: 22.736 ng

RT: 21.82 min Scan# 3189

Delta R.T. -0.01 min

Lab File: BG040949.D

Acq: 30 May 2019 13:13

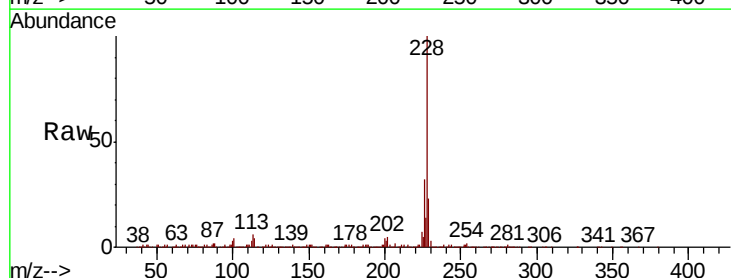
Tgt Ion:228 Resp: 640193

Ion Ratio Lower Upper

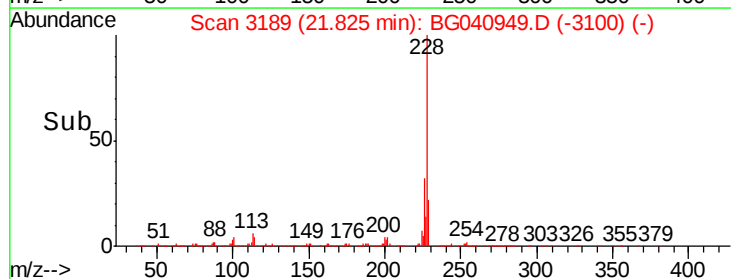
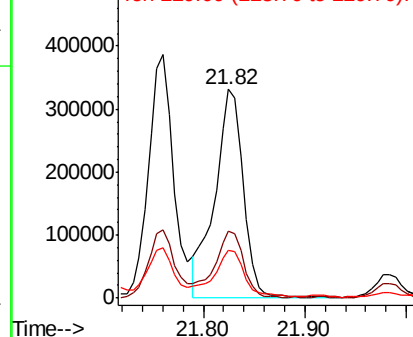
228 100

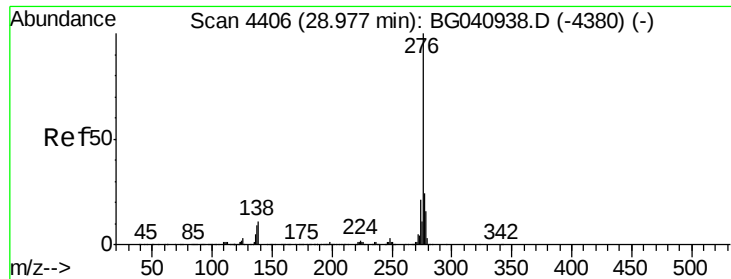
226 31.9 24.6 37.0

229 22.6 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

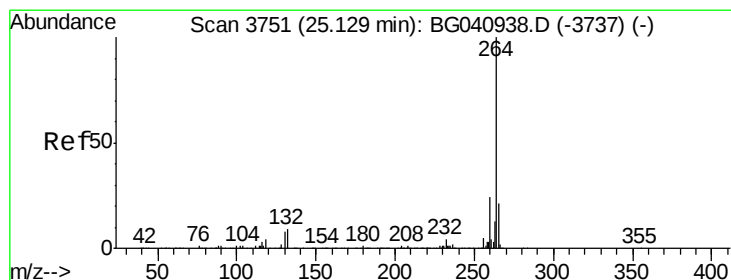
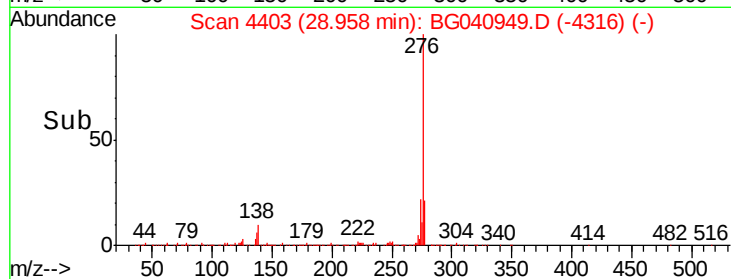
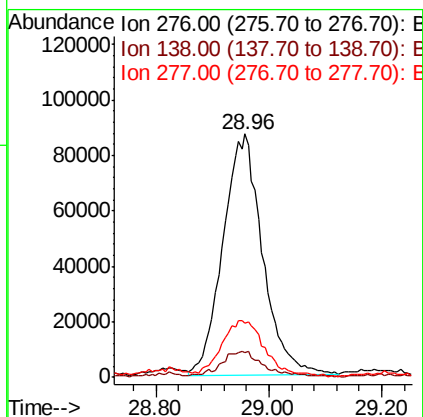
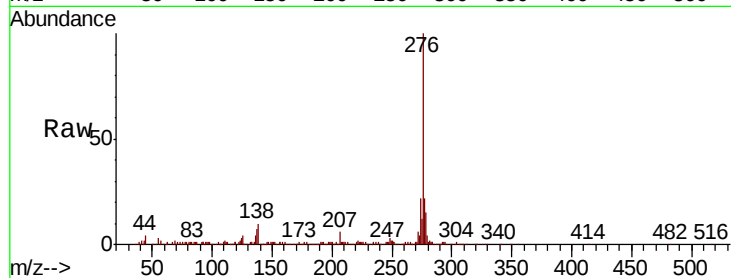




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 12.282 ng
 RT: 28.96 min Scan# 4403
 Delta R.T. -0.02 min
 Lab File: BG040949.D
 Acq: 30 May 2019 13:13

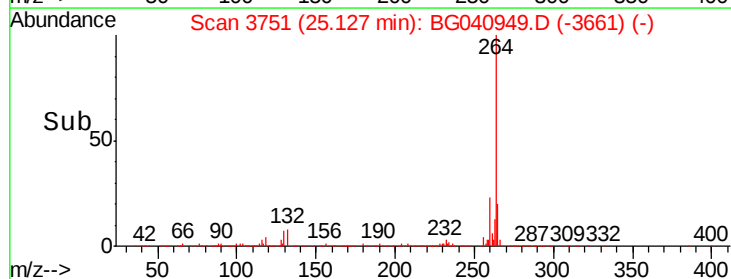
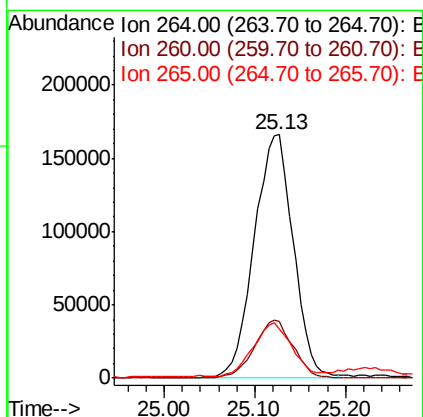
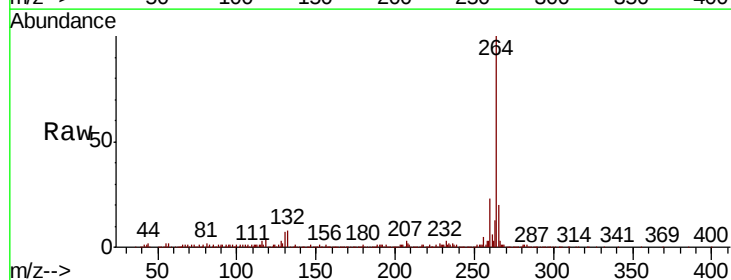
Instrument :
 BNA_G
 ClientSampleId :

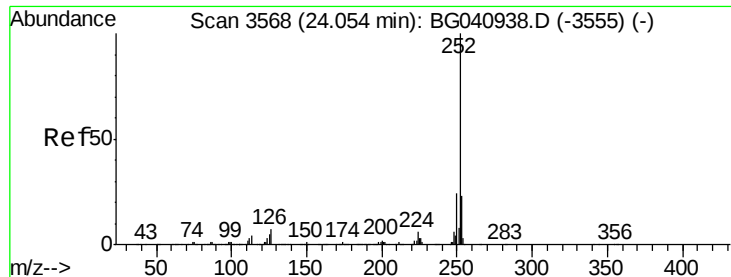
Tot Ion:276 Resp: 423629
 Ion Ratio Lower Upper
 276 100
 138 10.2 5.7 8.5#
 277 25.4 20.8 31.2



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 25.13 min Scan# 3751
 Delta R.T. -0.00 min
 Lab File: BG040949.D
 Acq: 30 May 2019 13:13

Tgt Ion:264 Resp: 493428
 Ion Ratio Lower Upper
 264 100
 260 23.2 19.0 28.4
 265 20.1 17.0 25.4

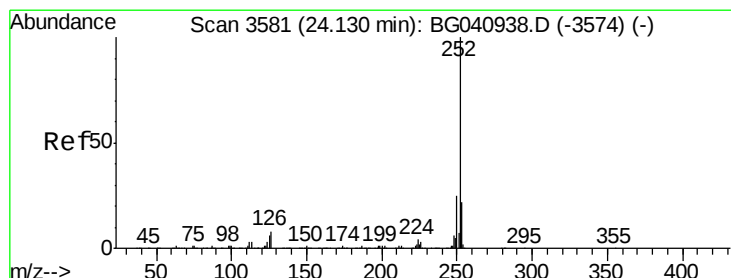
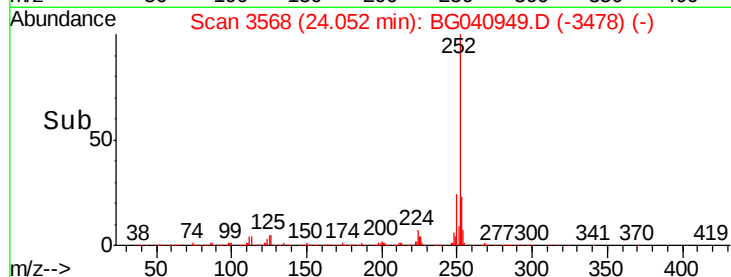
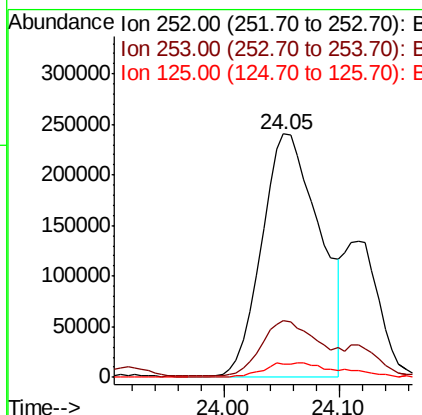
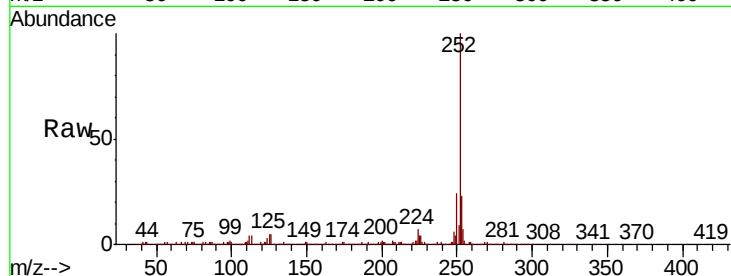




#88
Benzo(b)fluoranthene
Concen: 27.896 ng
RT: 24.05 min Scan# 3568
Delta R.T. -0.00 min
Lab File: BG040949.D
Acq: 30 May 2019 13:13

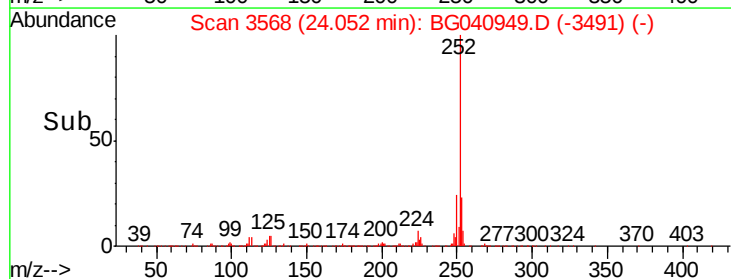
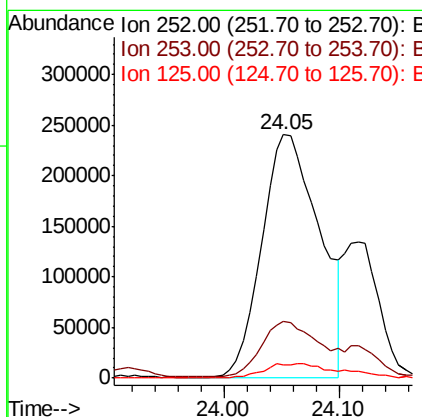
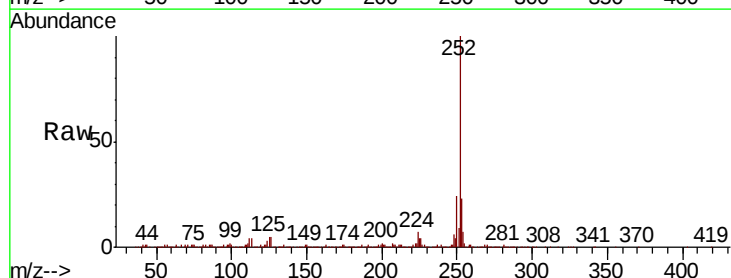
Instrument :
BNA_G
ClientSampleId :

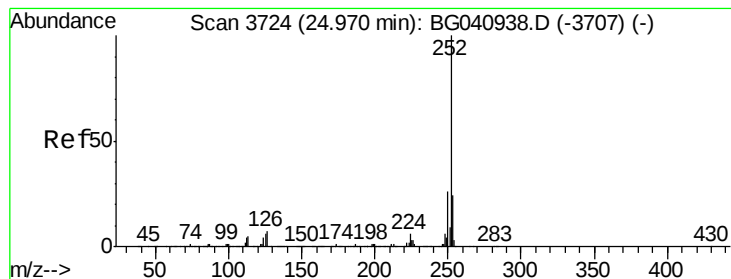
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.4	27.6
125	5.4	4.3	6.5



#89
Benzo(k)fluoranthene
Concen: 28.190 ng
RT: 24.05 min Scan# 3568
Delta R.T. -0.08 min
Lab File: BG040949.D
Acq: 30 May 2019 13:13

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.8	26.6
125	5.4	4.7	7.1





#90

Benzo(a)pyrene

Concen: 21.640 ng

RT: 24.96 min Scan# 3723

Delta R.T. -0.01 min

Lab File: BG040949.D

Acq: 30 May 2019 13:13

Instrument :

BNA_G

ClientSampleId :

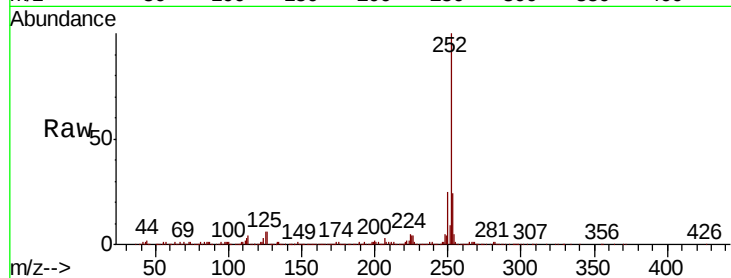
Tot Ion:252 Resp: 617906

Ion Ratio Lower Upper

252 100

253 24.3 19.5 29.3

125 5.8 5.1 7.7

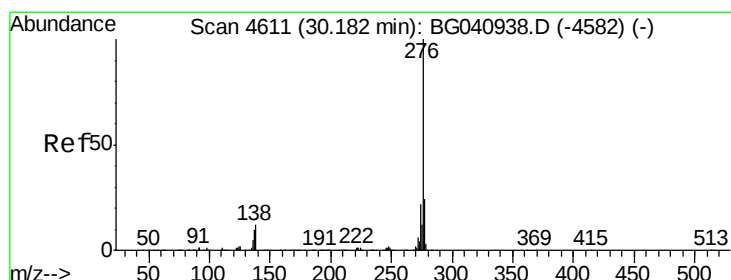
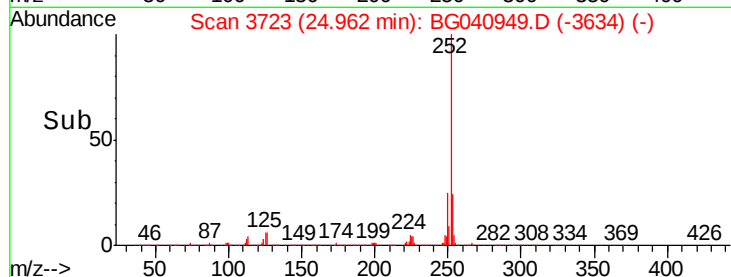
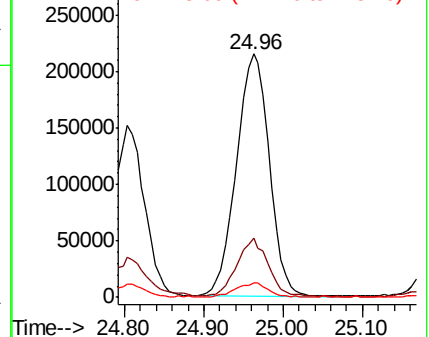


Abundance

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



#92

Benzo(g,h,i)perylene

Concen: 14.346 ng

RT: 30.17 min Scan# 4609

Delta R.T. -0.01 min

Lab File: BG040949.D

Acq: 30 May 2019 13:13

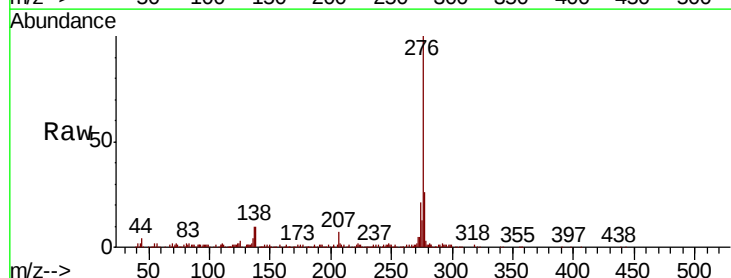
Tgt Ion:276 Resp: 397638

Ion Ratio Lower Upper

276 100

277 25.8 19.4 29.0

138 10.4 9.7 14.5



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

