

Data Path : Z:\svoasrv\HPCHEM1\BNA G\Data\BG050420\
 Data File : BG045239.D
 Acq On : 4 May 2020 18:32
 Operator : CG/JU
 Sample : L2475-03
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 FK-SF-03-009-B

Quant Time: May 04 19:09:16 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG041520.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 04 13:03:14 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.99	152	82741	20.00	ng	0.00
21) Naphthalene-d8	10.80	136	319384	20.00	ng	0.00
39) Acenaphthene-d10	14.63	164	222265	20.00	ng	0.00
64) Phenanthrene-d10	17.38	188	466172	20.00	ng	0.00
76) Chrysene-d12	21.64	240	418893	20.00	ng	0.00
87) Perylene-d12	24.82	264	446209	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.56	112	665545	132.80	ng	0.00
7) Phenol-d6	7.16	99	957292	128.56	ng	0.00
23) Nitrobenzene-d5	9.15	82	634497	90.65	ng	0.00
42) 2,4,6-Tribromophenol	16.12	330	422165	122.95	ng	0.00
45) 2-Fluorobiphenyl	13.25	172	1430209	94.35	ng	0.00
79) Terphenyl-d14	19.99	244	1950080	101.47	ng	0.00

Target Compounds

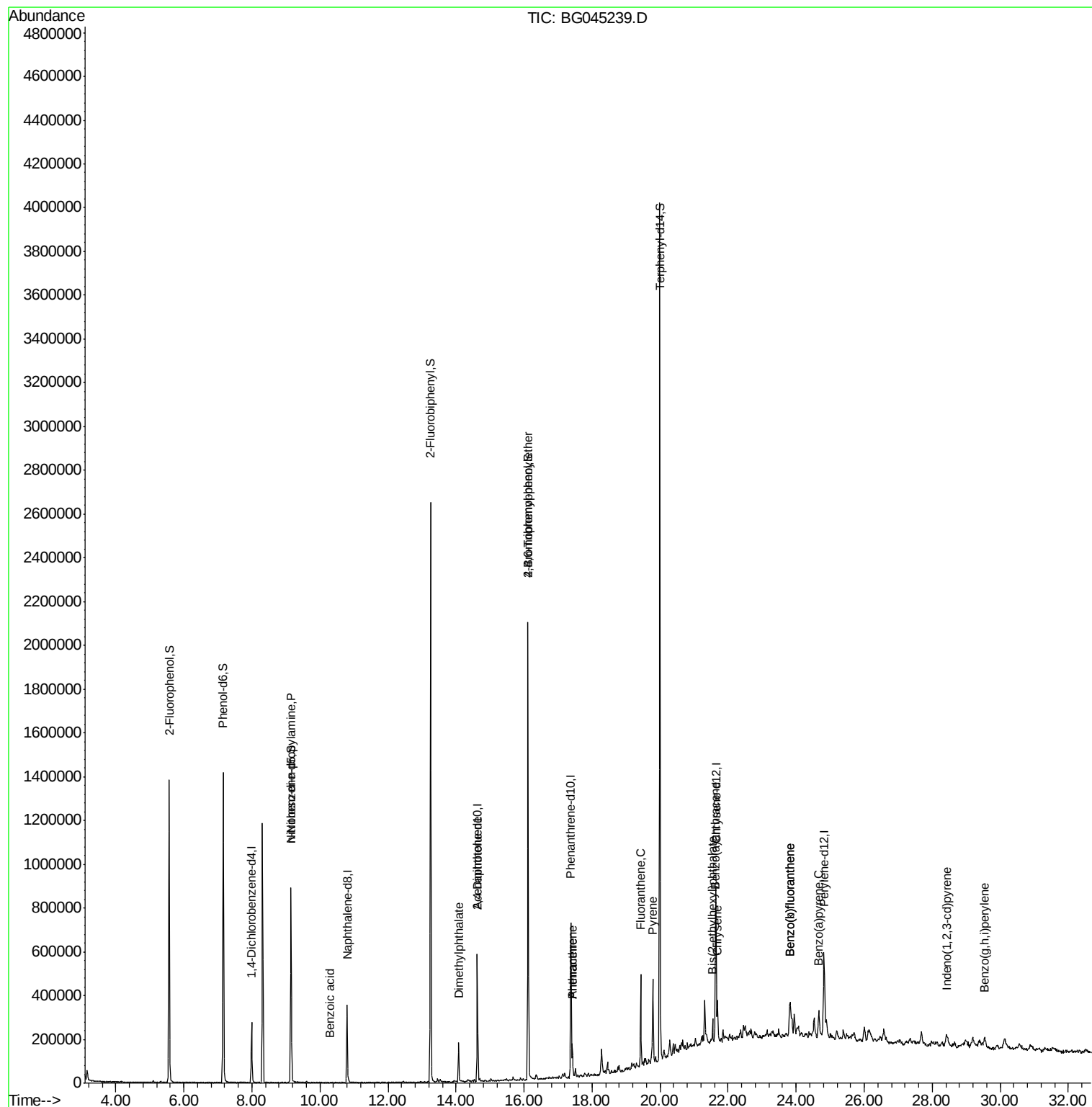
						Qvalue
9) Benzaldehyde	7.16	77	2345	Below Cal	#	10
19) n-Nitroso-di-n-propylamine	9.15	70	87172	16.554 ng	#	79
32) Benzoic acid	10.30	122	55	6.386 ng	#	12
50) Dimethylphthalate	14.08	163	120018	6.632 ng		99
57) 2,4-Dinitrotoluene	14.63	165	29288	4.951 ng	#	22
67) 4-Bromophenyl-phenylether	16.12	248	28842	4.796 ng	#	1
69) Atrazine	16.80	200	59	Below Cal	#	1
71) Phenanthrene	17.42	178	100621	4.200 ng		97
72) Anthracene	17.42	178	100621	4.187 ng		97
74) Di-n-butylphthalate	18.34	149	5293	Below Cal	#	91
75) Fluoranthene	19.43	202	272721	4.074 ng		96
77) Benzidine	19.99	184	39076	Below Cal	#	92
78) Pvrene	19.79	202	257871	8.929 ng		94
81) Benzo(a)anthracene	21.62	228	150648	5.549 ng		98
83) Chrysene	21.69	228	136929	5.249 ng		98
84) Bis(2-ethylhexyl)phthalate	21.54	149	45057	2.737 ng		99
86) Indeno(1,2,3-cd)pvrene	28.42	276	110159	3.181 ng		97
88) Benzo(b)fluoranthene	23.82	252	206901	7.402 ng		98
89) Benzo(k)fluoranthene	23.82	252	206901	7.784 ng		99
90) Benzo(a)pvrene	24.67	252	139339	5.280 ng		94
92) Benzo(a,h,i)perylene	29.54	276	107057	4.016 ng	#	95

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 7.99 min Scan# 834

Delta R.T. 0.00 min

Lab File: BG045239.D

Acq: 4 May 2020 18:32

Instrument :

BNA_G

ClientSampleId :

FK-SF-03-009-B

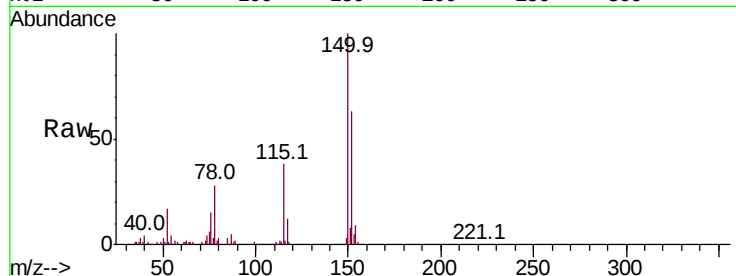
Tot Ion:152 Resp: 82741

Ion Ratio Lower Upper

152 100

150 158.5 123.6 185.4

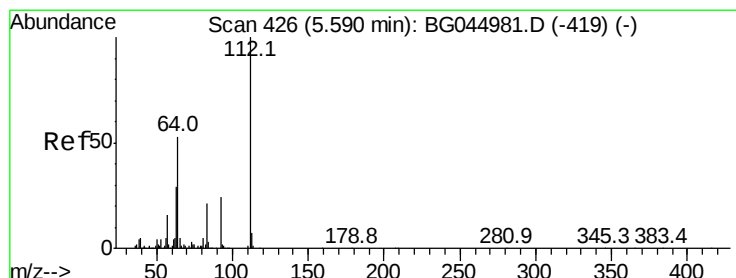
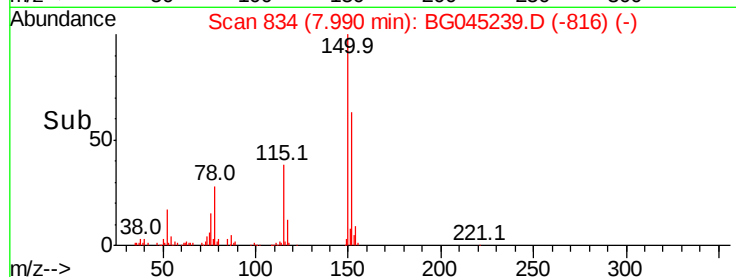
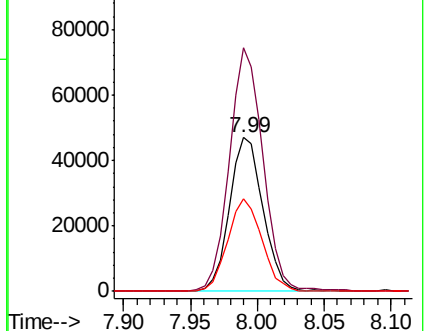
115 60.0 49.1 73.7



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: 132.797 ng

RT: 5.56 min Scan# 421

Delta R.T. 0.00 min

Lab File: BG045239.D

Acq: 4 May 2020 18:32

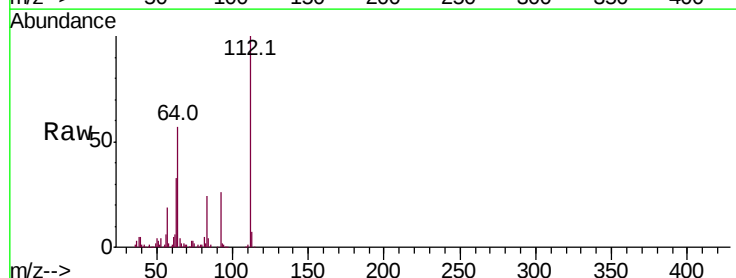
Tgt Ion:112 Resp: 665545

Ion Ratio Lower Upper

112 100

64 57.5 42.4 63.6

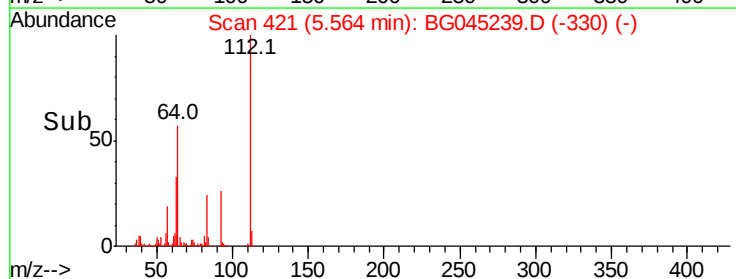
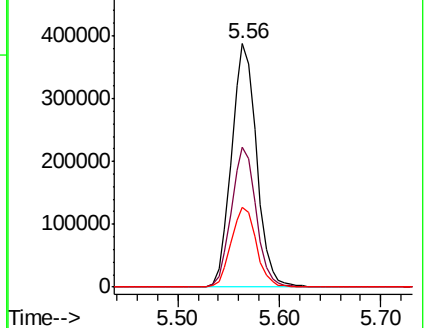
63 32.7 23.1 34.7



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BG

Ion 63.00 (62.70 to 63.70): BG





#7

Phenol-d6

Concen: 128.561 ng

RT: 7.16 min Scan# 693

Delta R.T. 0.01 min

Lab File: BG045239.D

Acq: 4 May 2020 18:32

Instrument :

BNA_G

ClientSampleId :

FK-SF-03-009-B

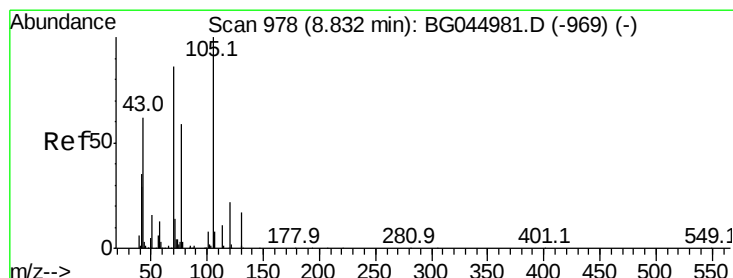
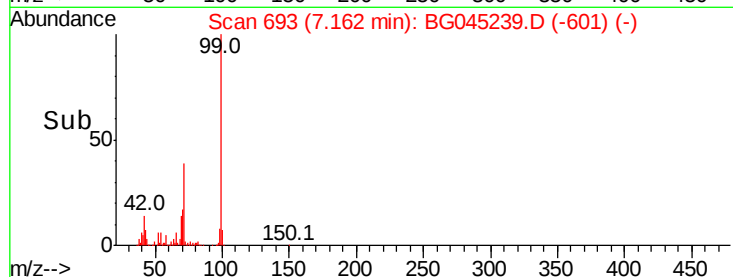
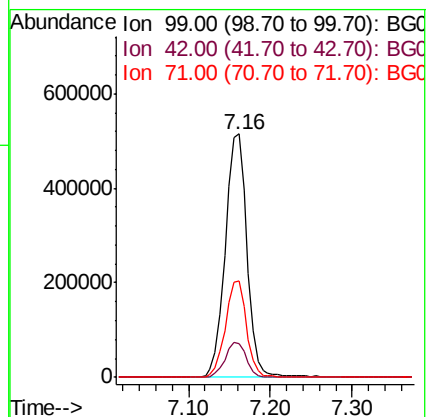
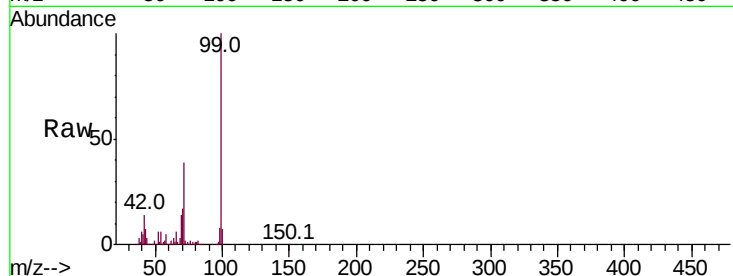
Tot Ion: 99 Resp: 957292

Ion Ratio Lower Upper

99 100

42 14.0 11.3 16.9

71 39.4 28.3 42.5



#19

n-Nitroso-di-n-propylamine

Concen: 16.554 ng

RT: 9.15 min Scan# 1031

Delta R.T. 0.35 min

Lab File: BG045239.D

Acq: 4 May 2020 18:32

Tgt Ion: 70 Resp: 87172

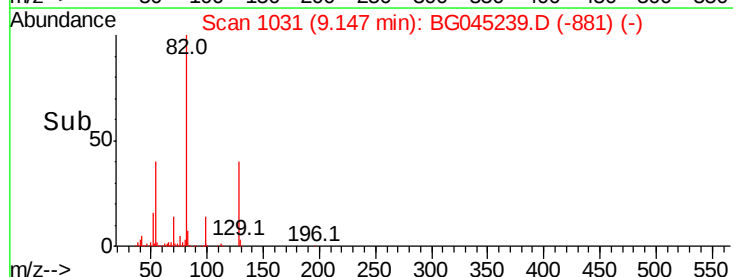
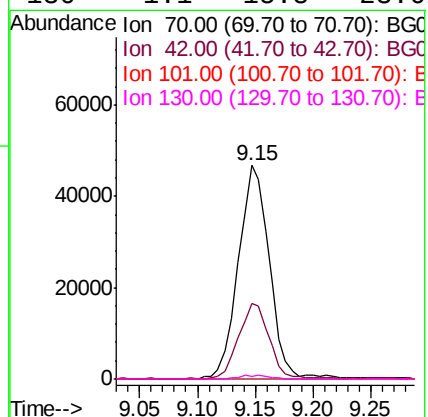
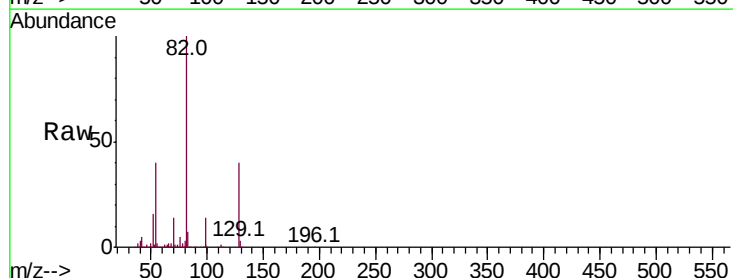
Ion Ratio Lower Upper

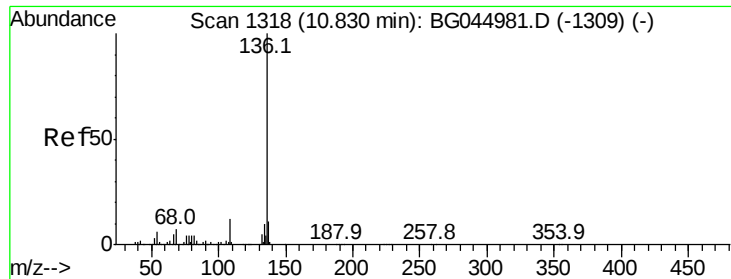
70 100

42 35.1 33.3 49.9

101 0.0 7.8 11.8#

130 1.1 15.8 23.6#

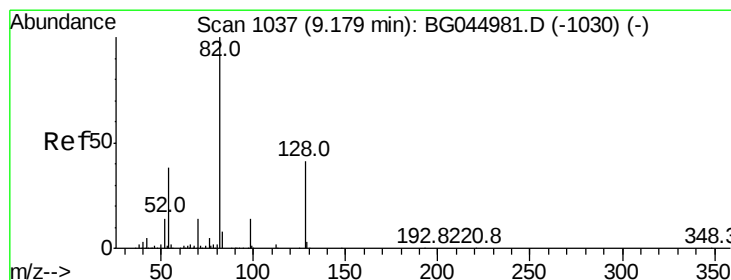
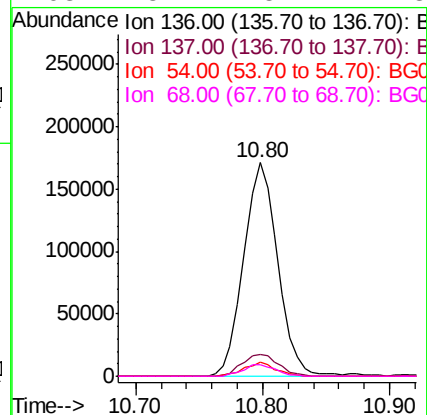
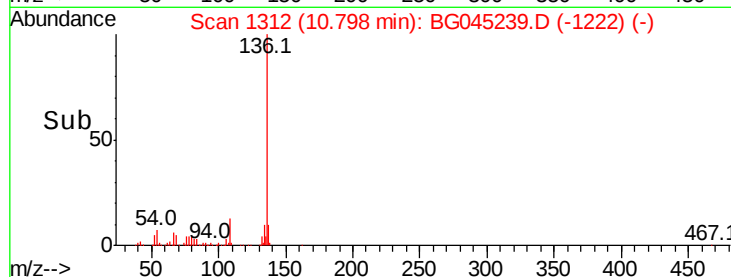
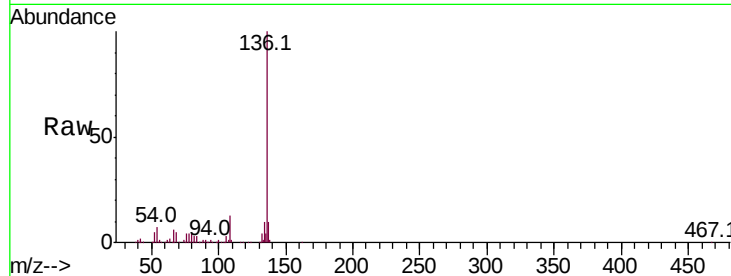




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.80 min Scan# 1312
Delta R.T. -0.00 min
Lab File: BG045239.D
Acq: 4 May 2020 18:32

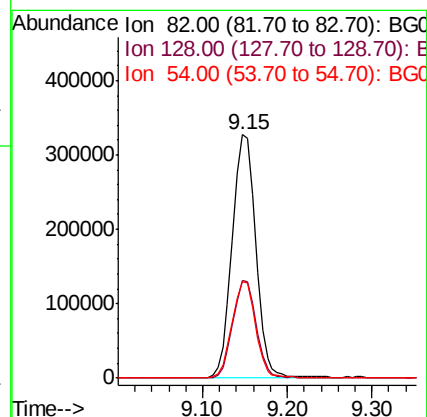
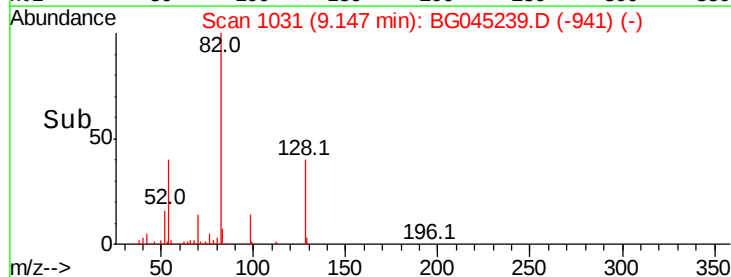
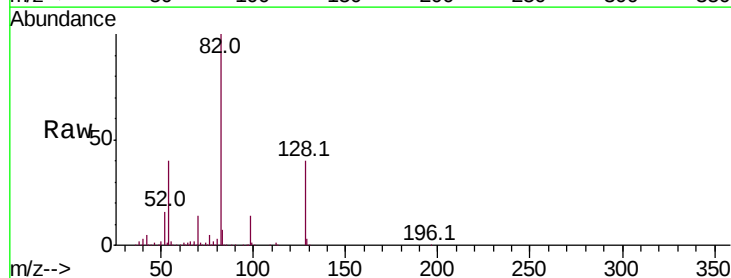
Instrument :
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ClientSampleId :
FK-SF-03-009-B

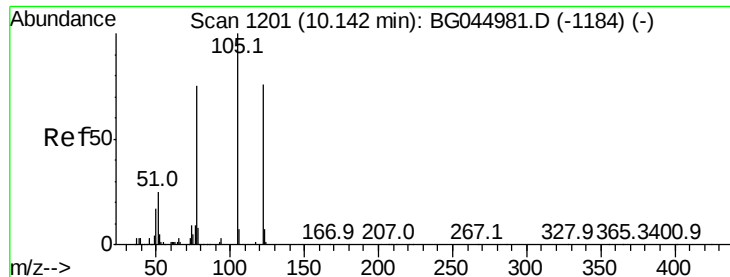
Tot Ion:136	Resp:	319384	
Ion Ratio	Lower	Upper	
136 100			
137 10.4	8.6	13.0	
54 6.8	4.8	7.2	
68 5.2	5.2	7.8	



#23
Nitrobenzene-d5
Concen: 90.647 ng
RT: 9.15 min Scan# 1031
Delta R.T. -0.00 min
Lab File: BG045239.D
Acq: 4 May 2020 18:32

Tgt Ion: 82	Resp: 634497
Ion Ratio	Lower Upper
82 100	
128 40.0	33.0 49.4
54 39.8	30.4 45.6





#32

Benzoic acid

Concen: 6.386 ng

RT: 10.30 min Scan# 1227

Delta R.T. 0.19 min

Lab File: BG045239.D

Acq: 4 May 2020 18:32

Instrument :

BNA_G

ClientSampleId :

FK-SF-03-009-B

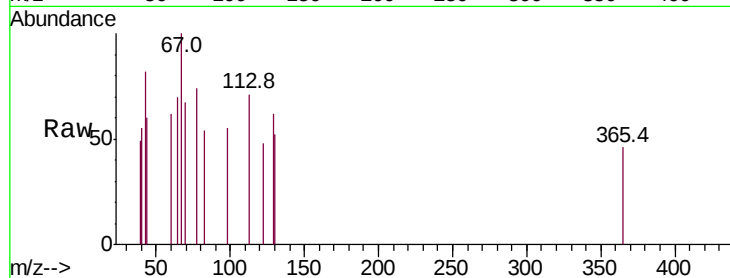
Tot Ion:122 Resp: 55

Ion Ratio Lower Upper

122 100

105 0.0 108.4 148.4#

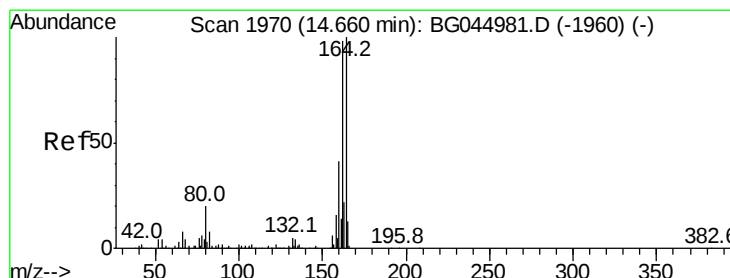
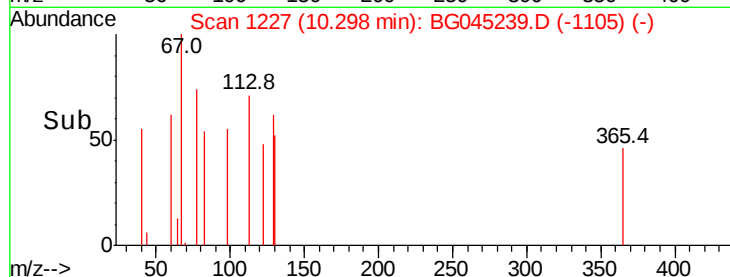
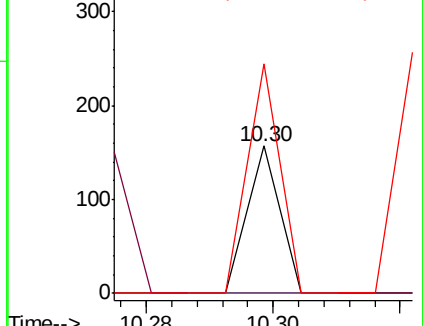
77 156.1 78.8 118.8#



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: 14.63 min Scan# 1965

Delta R.T. 0.00 min

Lab File: BG045239.D

Acq: 4 May 2020 18:32

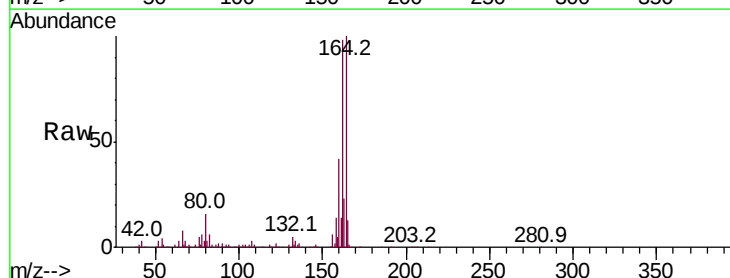
Tgt Ion:164 Resp: 222265

Ion Ratio Lower Upper

164 100

162 98.2 78.7 118.1

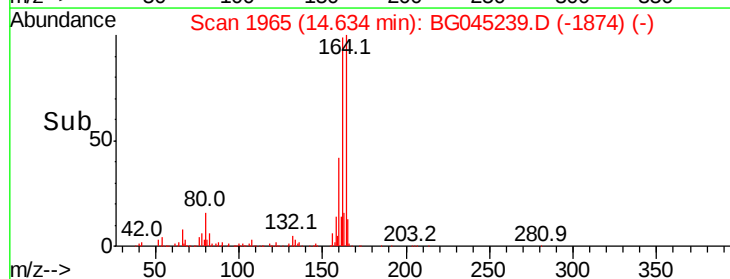
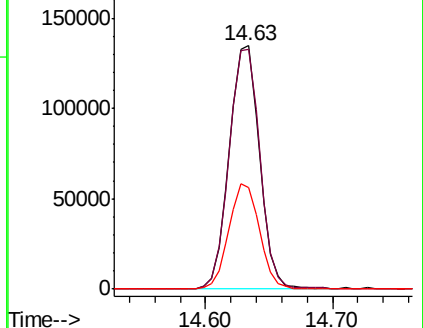
160 41.6 32.8 49.2

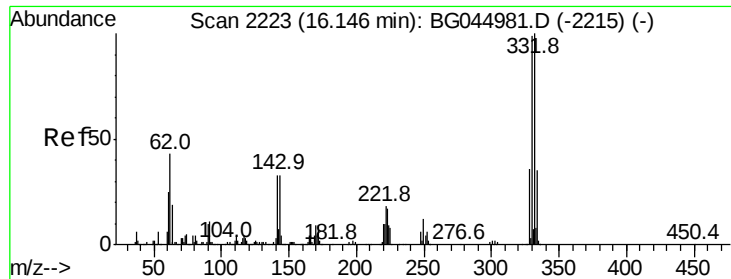


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

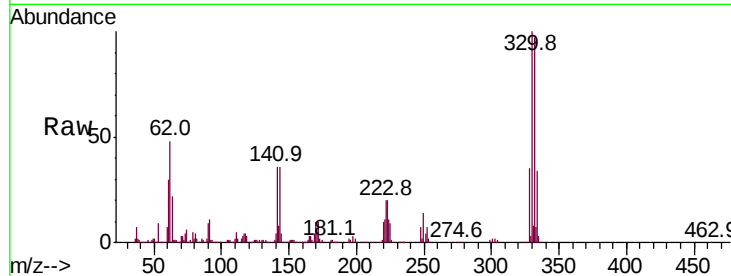




#42
 2,4,6-Tribromophenol
 Concen: 122.947 ng
 RT: 16.12 min Scan# 2218
 Delta R.T. -0.00 min
 Lab File: BG045239.D
 Acq: 4 May 2020 18:32

Instrument :
 BNA_G
 ClientSampleId :
 FK-SF-03-009-B

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.7	79.1	118.7
141	36.2	27.1	40.7

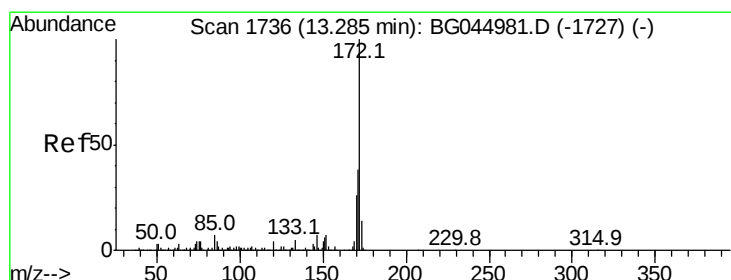
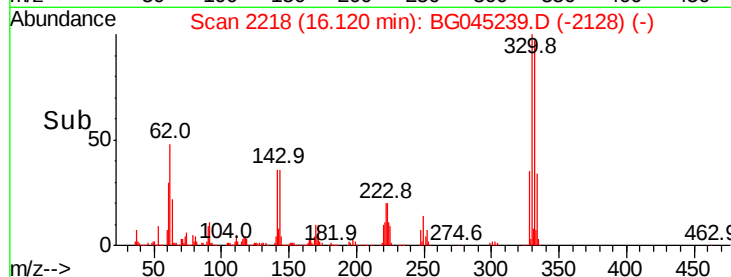
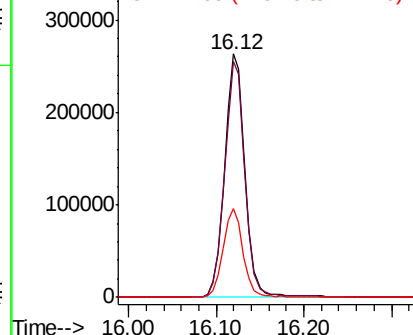


Abundance

Ion 329.80 (329.50 to 330.50): E

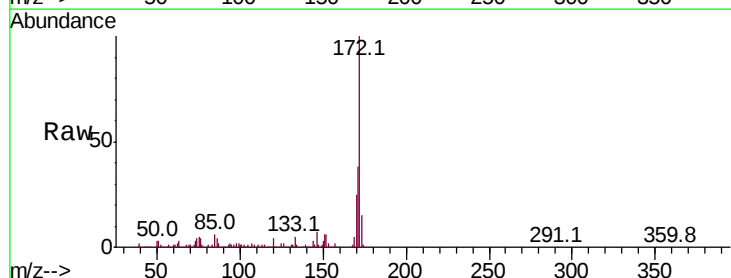
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45
 2-Fluorobiphenyl
 Concen: 94.353 ng
 RT: 13.25 min Scan# 1730
 Delta R.T. -0.00 min
 Lab File: BG045239.D
 Acq: 4 May 2020 18:32

Tgt Ion	Ratio	Lower	Upper
172	100		
171	38.3	30.6	46.0
170	24.8	20.5	30.7

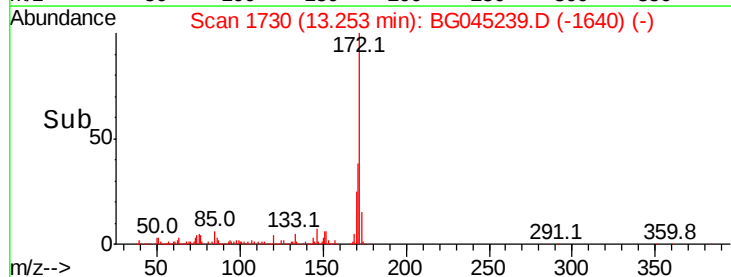
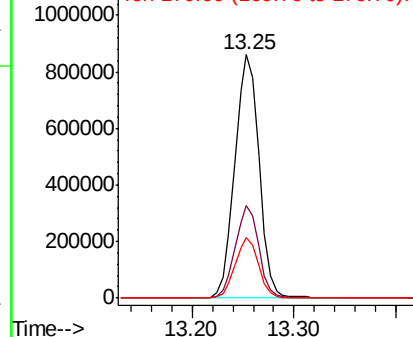


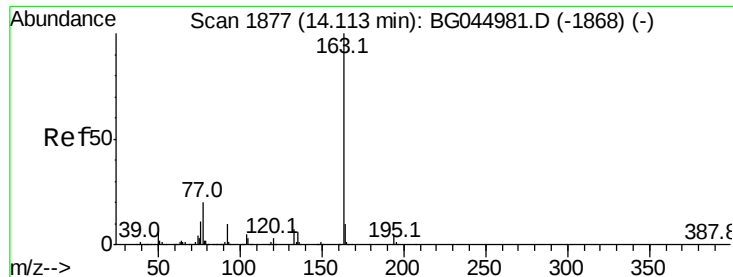
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

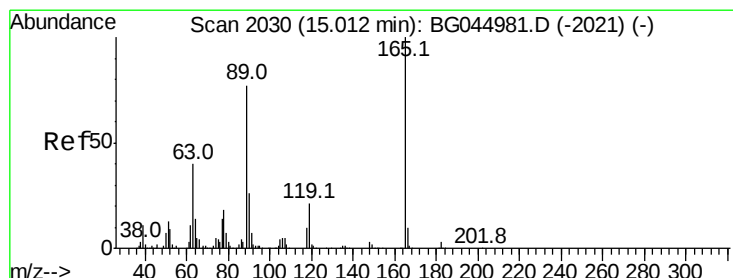
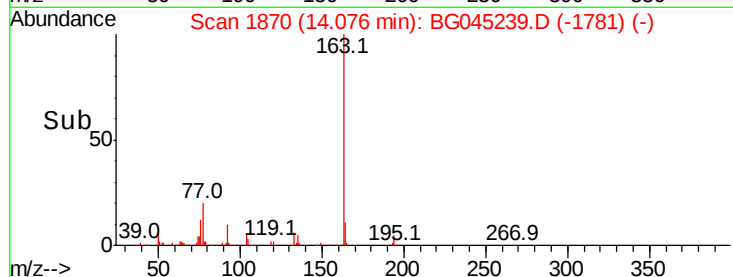
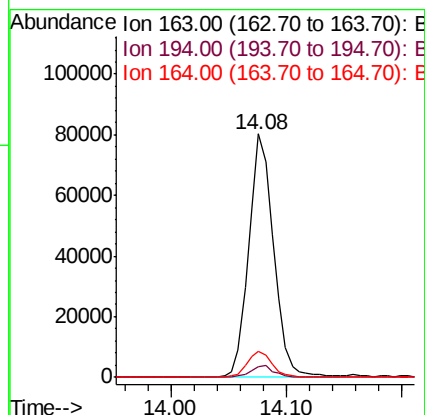
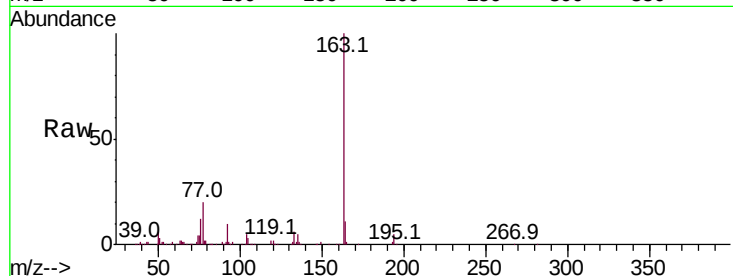




#50
Dimethylphthalate
Concen: 6.632 ng
RT: 14.08 min Scan# 1870
Delta R.T. -0.01 min
Lab File: BG045239.D
Acq: 4 May 2020 18:32

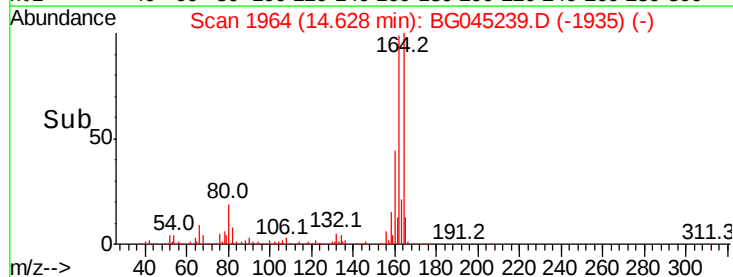
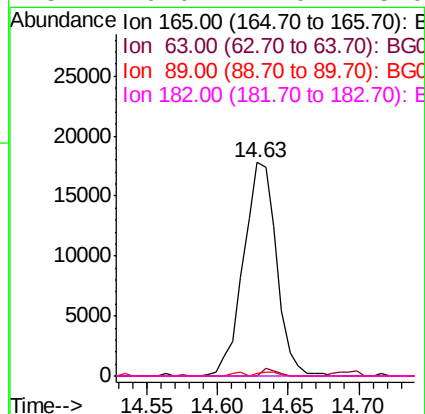
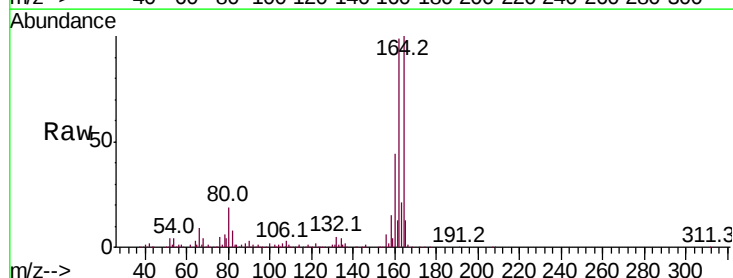
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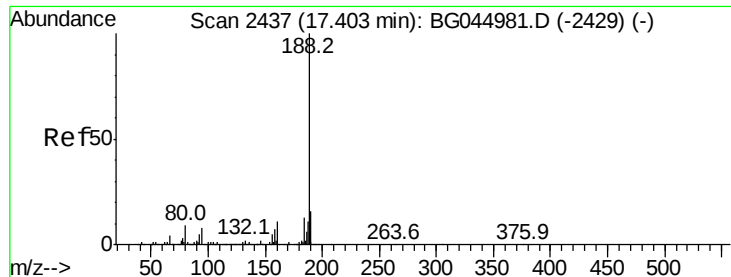
Tot Ion	Ratio	Lower	Upper
163	100		
194	4.6	3.5	5.3
164	10.7	8.2	12.4



#57
2,4-Dinitrotoluene
Concen: 4.951 ng
RT: 14.63 min Scan# 1964
Delta R.T. -0.36 min
Lab File: BG045239.D
Acq: 4 May 2020 18:32

Tgt Ion	Ratio	Lower	Upper
165	100		
63	0.0	32.2	48.2#
89	1.5	61.7	92.5#
182	0.0	2.0	3.0#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.38 min Scan# 2432

Delta R.T. -0.00 min

Lab File: BG045239.D

Acq: 4 May 2020 18:32

Instrument :

BNA_G

ClientSampleId :

FK-SF-03-009-B

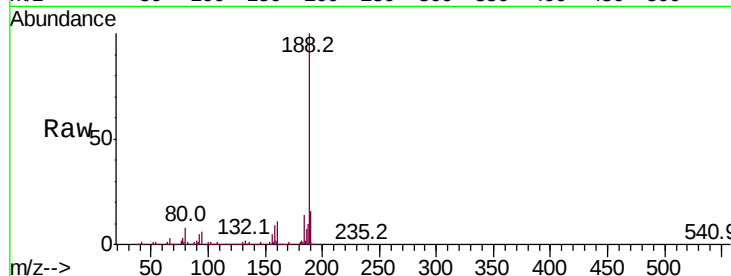
Tot Ion:188 Resp: 466172

Ion Ratio Lower Upper

188 100

94 6.4 6.2 9.4

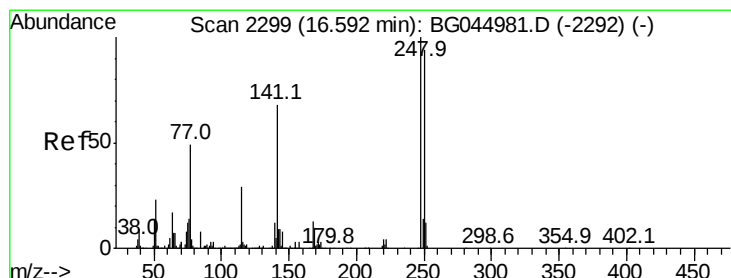
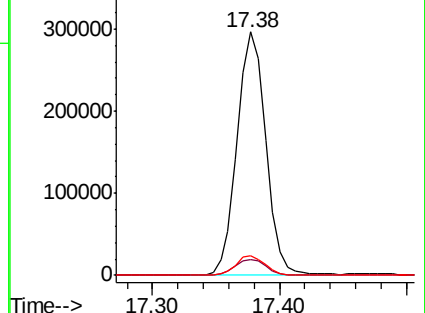
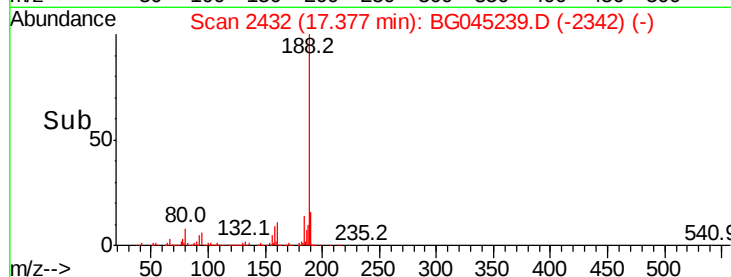
80 8.1 7.0 10.6



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BG

Ion 80.00 (79.70 to 80.70): BG



#67

4-Bromophenyl-phenylether

Concen: 4.796 ng

RT: 16.12 min Scan# 2218

Delta R.T. -0.45 min

Lab File: BG045239.D

Acq: 4 May 2020 18:32

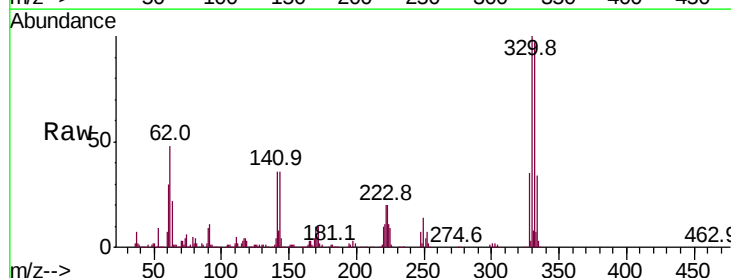
Tgt Ion:248 Resp: 28842

Ion Ratio Lower Upper

248 100

250 194.2 75.4 113.2#

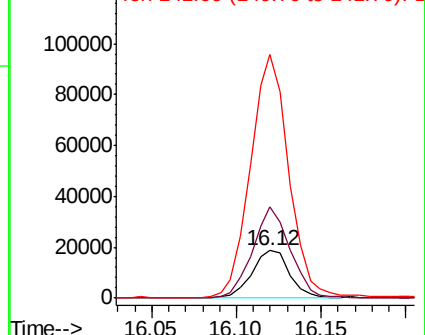
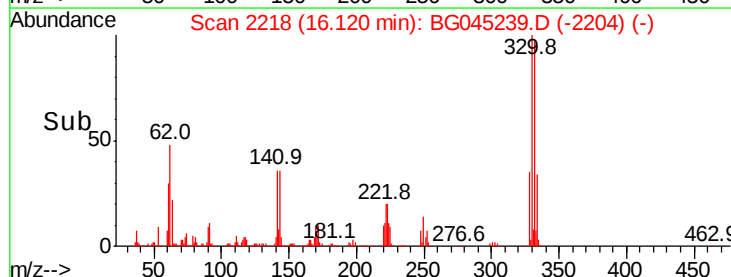
141 516.1 54.4 81.6#

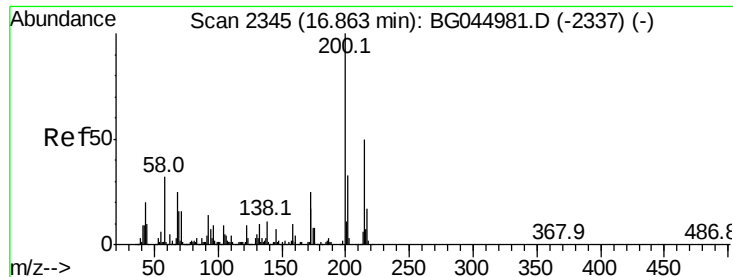


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#69

Atrazine

Concen: Below Cal

RT: 16.80 min Scan# 2334

Delta R.T. -0.04 min

Lab File: BG045239.D

Acq: 4 May 2020 18:32

Instrument :

BNA_G

ClientSampleId :

FK-SF-03-009-B

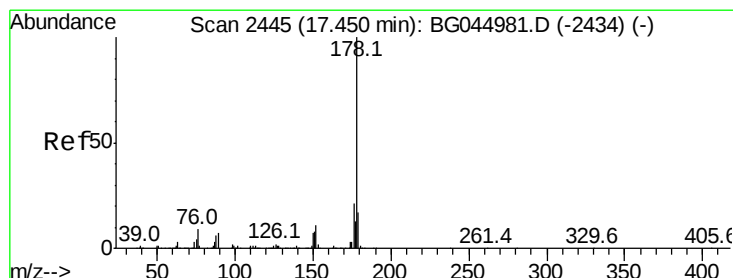
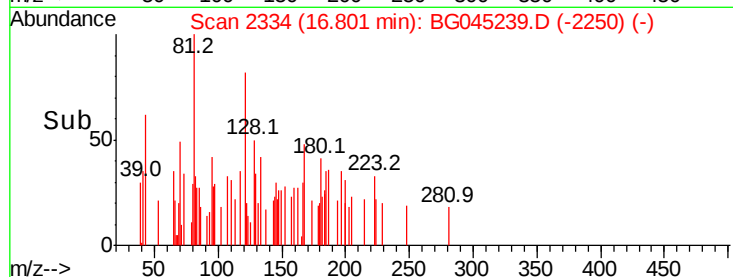
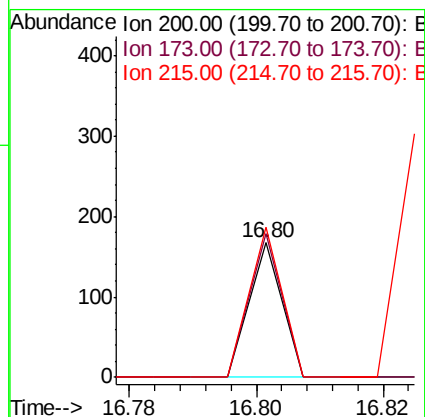
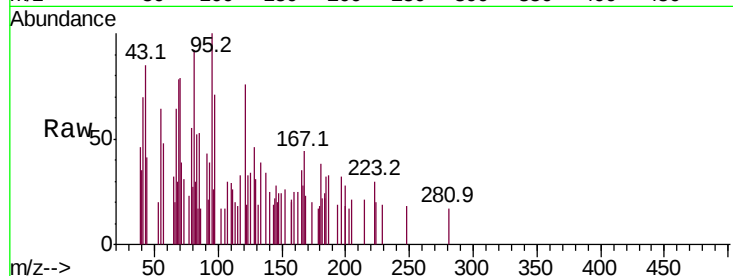
Tot Ion:200 Resp: 59

Ion Ratio Lower Upper

200 100

173 107.2 4.5 44.5#

215 112.0 30.0 70.0#



#71

Phenanthrene

Concen: 4.200 ng

RT: 17.42 min Scan# 2439

Delta R.T. -0.00 min

Lab File: BG045239.D

Acq: 4 May 2020 18:32

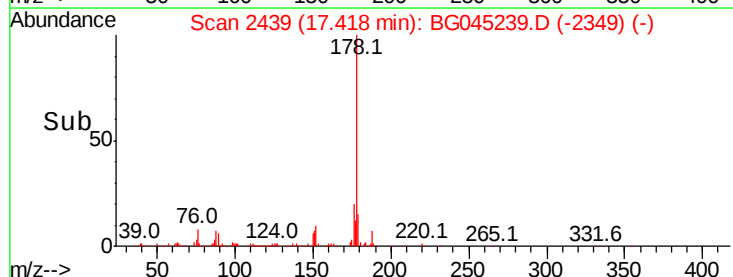
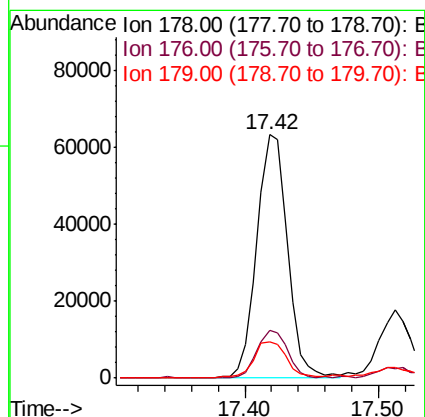
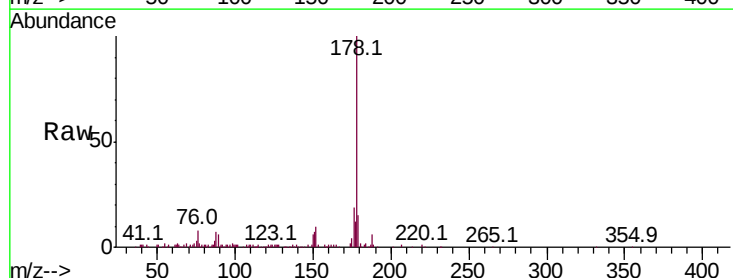
Tgt Ion:178 Resp: 100621

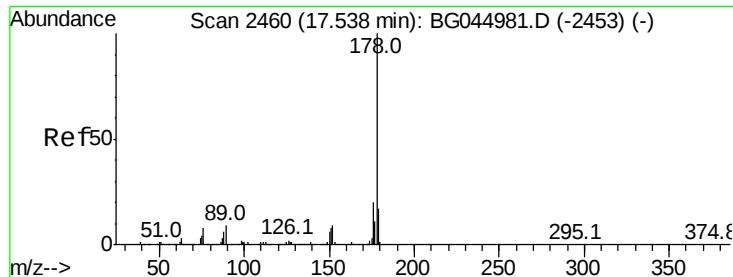
Ion Ratio Lower Upper

178 100

176 19.5 16.8 25.2

179 14.9 13.2 19.8





#72

Anthracene

Concen: 4.187 ng

RT: 17.42 min Scan# 2439

Delta R.T. -0.10 min

Lab File: BG045239.D

Acq: 4 May 2020 18:32

Instrument :

BNA_G

ClientSampleId :

FK-SF-03-009-B

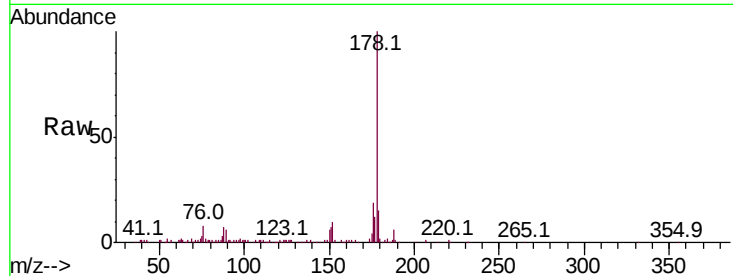
Tot Ion:178 Resp: 100621

Ion Ratio Lower Upper

178 100

176 19.5 16.0 24.0

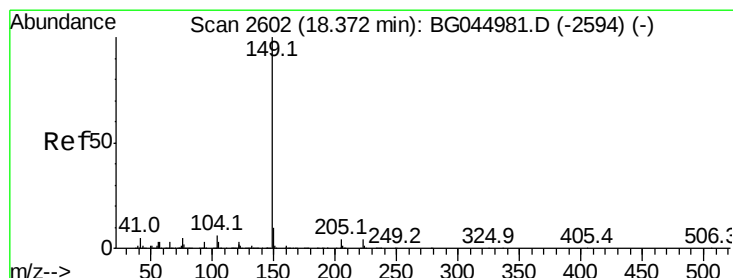
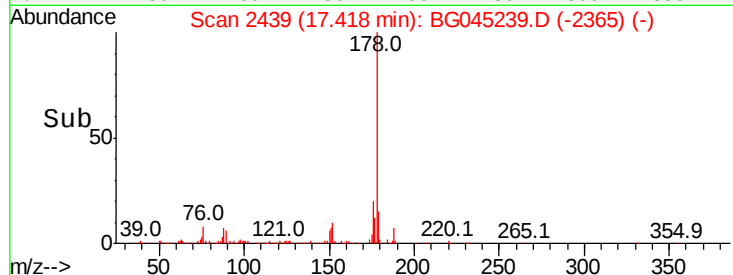
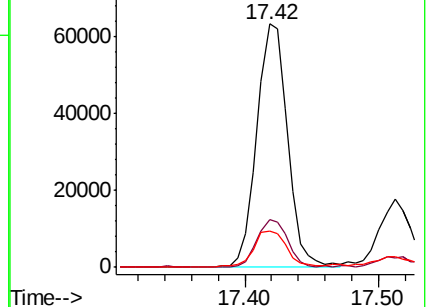
179 14.9 13.6 20.4



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

Di-n-butylphthalate

Concen: Below Cal

RT: 18.34 min Scan# 2596

Delta R.T. -0.00 min

Lab File: BG045239.D

Acq: 4 May 2020 18:32

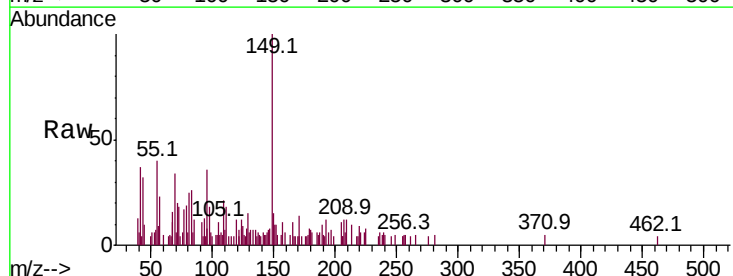
Tgt Ion:149 Resp: 5293

Ion Ratio Lower Upper

149 100

150 14.8 8.2 12.2#

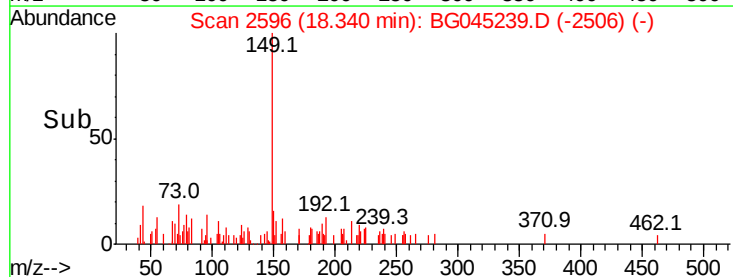
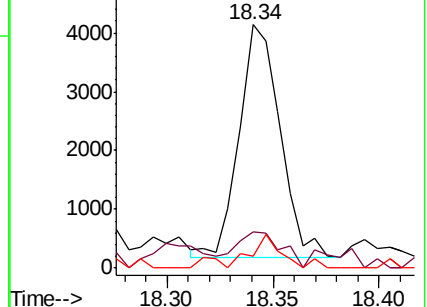
104 4.8 4.8 7.2#

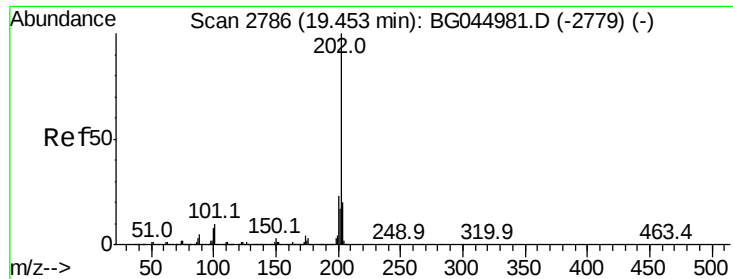


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E





#75

Fluoranthene

Concen: 4.074 ng

RT: 19.43 min Scan# 2781

Delta R.T. -0.01 min

Lab File: BG045239.D

Acq: 4 May 2020 18:32

Instrument :

BNA_G

ClientSampleId :

FK-SF-03-009-B

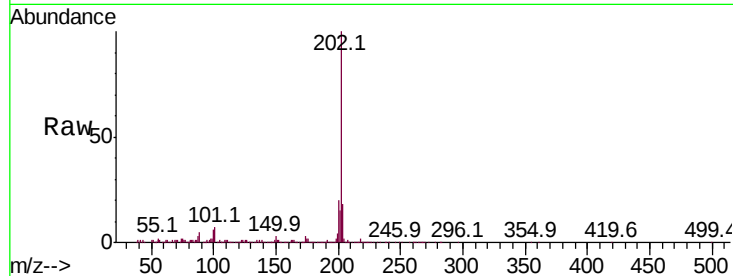
Tot Ion:202 Resp: 272721

Ion Ratio Lower Upper

202 100

101 7.4 0.0 29.6

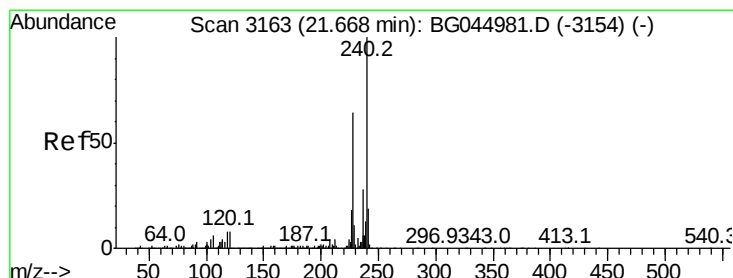
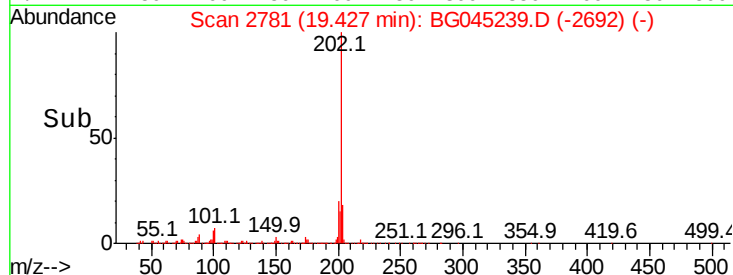
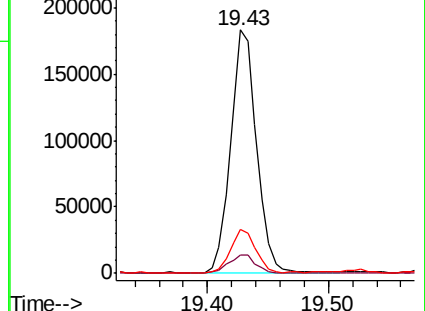
203 18.2 0.0 39.7



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.64 min Scan# 3158

Delta R.T. -0.00 min

Lab File: BG045239.D

Acq: 4 May 2020 18:32

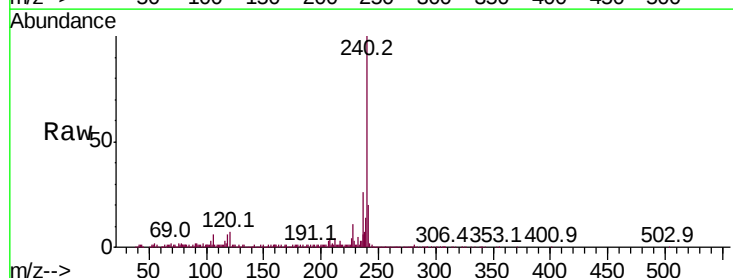
Tgt Ion:240 Resp: 418893

Ion Ratio Lower Upper

240 100

120 7.0 6.6 10.0

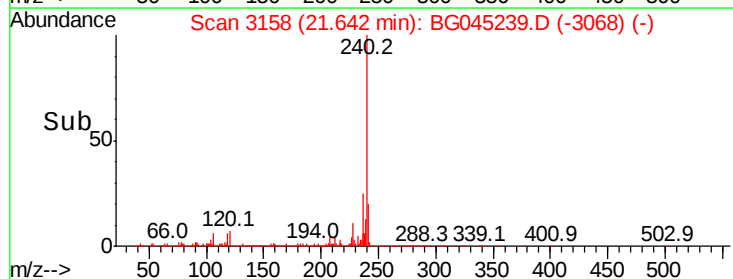
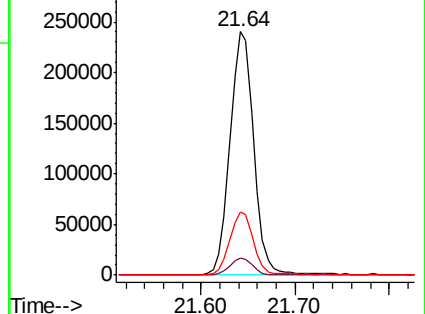
236 25.8 22.2 33.2

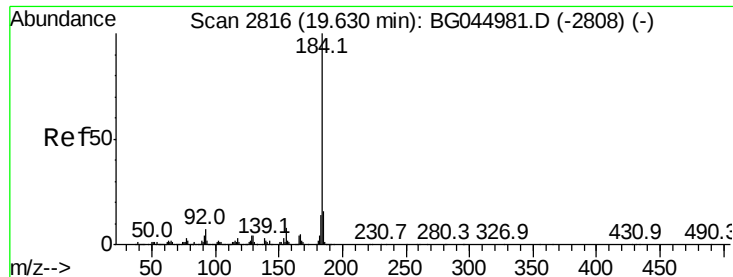


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Benzidine

Concen: Below Cal

RT: 19.99 min Scan# 2877

Delta R.T. 0.39 min

Lab File: BG045239.D

Acq: 4 May 2020 18:32

Instrument :

BNA_G

ClientSampleId :

FK-SF-03-009-B

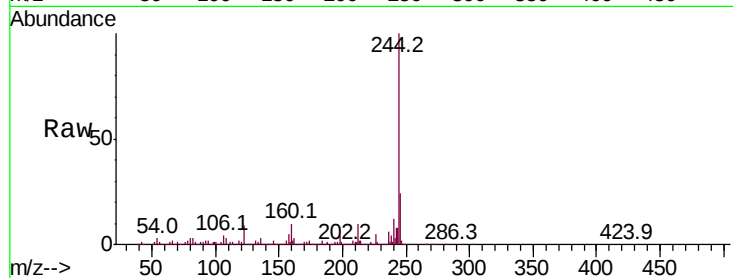
Tot Ion:184 Resp: 39076

Ion Ratio Lower Upper

184 100

185 13.5 12.6 19.0

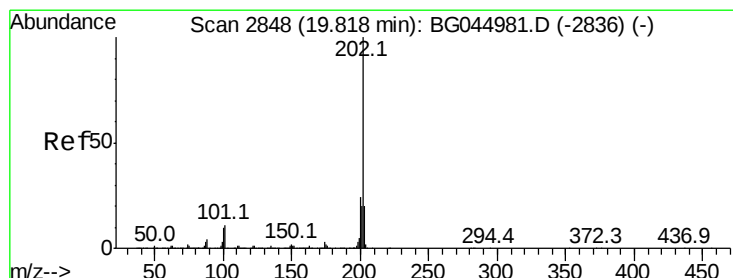
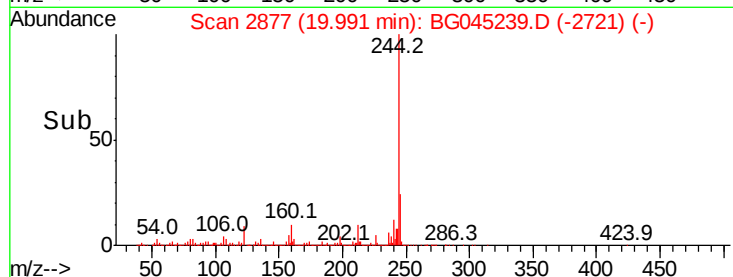
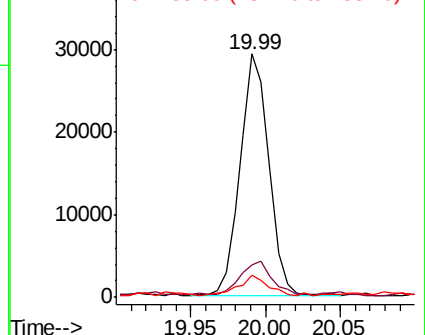
183 9.3 11.3 16.9#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#78

Pyrene

Concen: 8.929 ng

RT: 19.79 min Scan# 2843

Delta R.T. -0.00 min

Lab File: BG045239.D

Acq: 4 May 2020 18:32

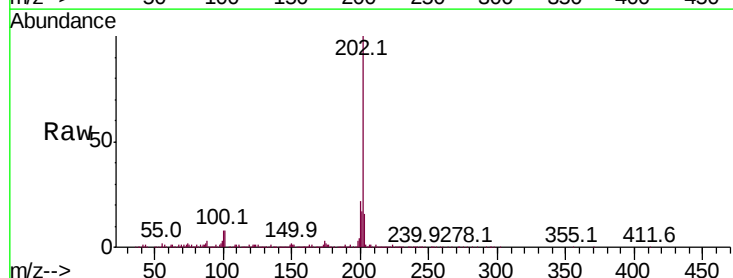
Tgt Ion:202 Resp: 257871

Ion Ratio Lower Upper

202 100

200 21.6 19.0 28.6

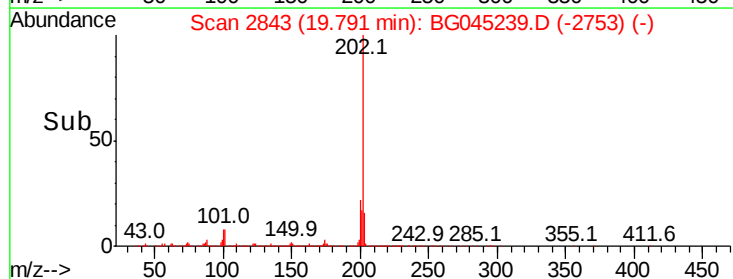
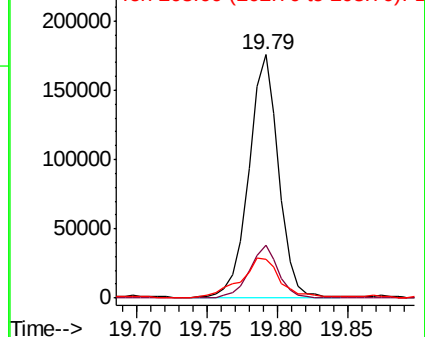
203 16.1 16.1 24.1

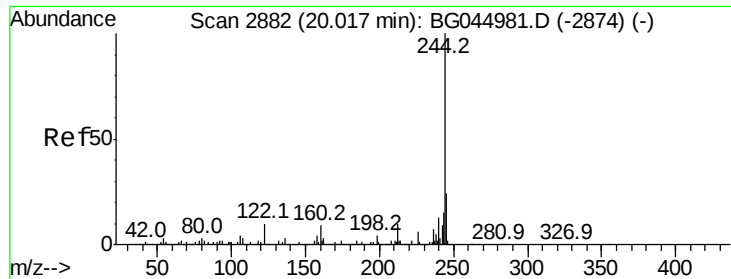


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 101.466 ng

RT: 19.99 min Scan# 2877

Delta R.T. -0.00 min

Lab File: BG045239.D

Acq: 4 May 2020 18:32

Instrument :

BNA_G

ClientSampleId :

FK-SF-03-009-B

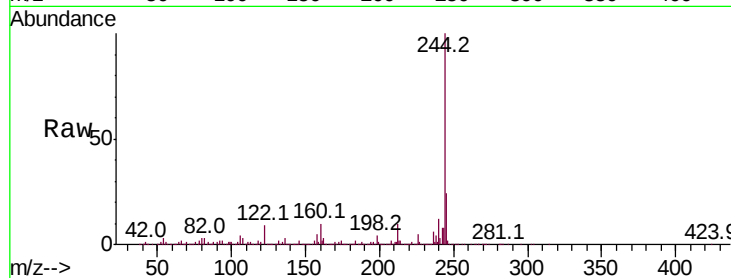
Tot Ion:244 Resp: 1950080

Ion Ratio Lower Upper

244 100

212 9.6 7.9 11.9

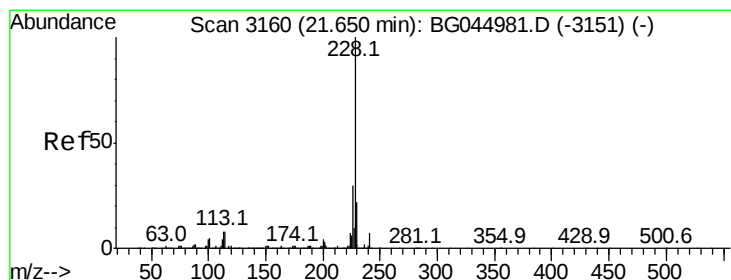
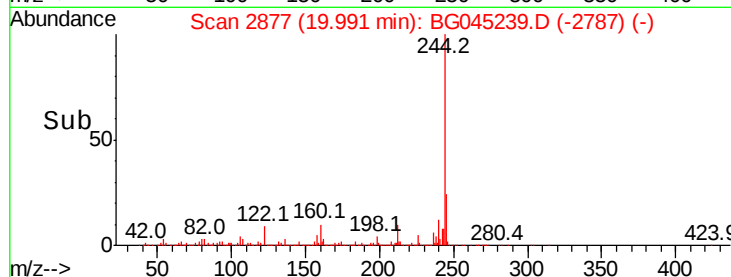
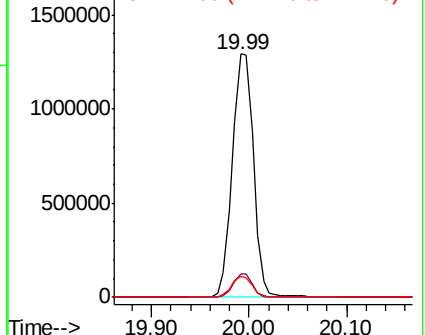
122 8.6 7.7 11.5



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: 5.549 ng

RT: 21.62 min Scan# 3155

Delta R.T. -0.00 min

Lab File: BG045239.D

Acq: 4 May 2020 18:32

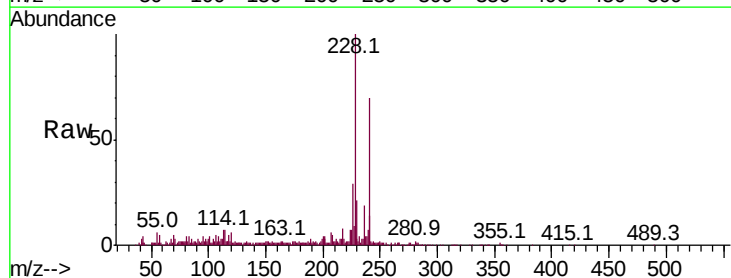
Tgt Ion:228 Resp: 150648

Ion Ratio Lower Upper

228 100

226 28.7 24.0 36.0

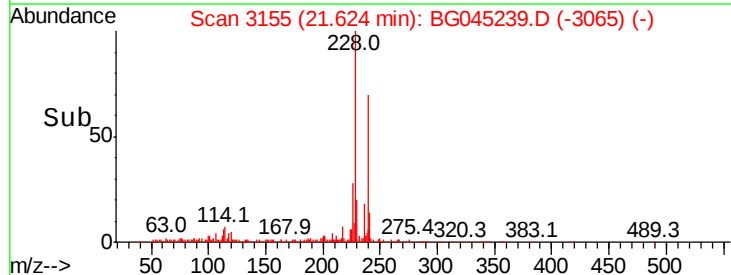
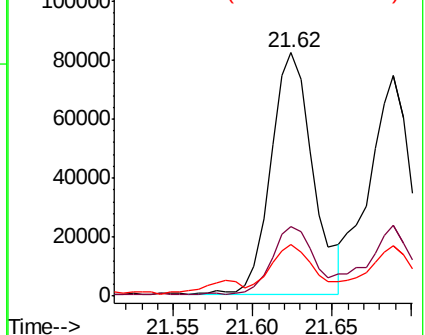
229 21.4 17.5 26.3

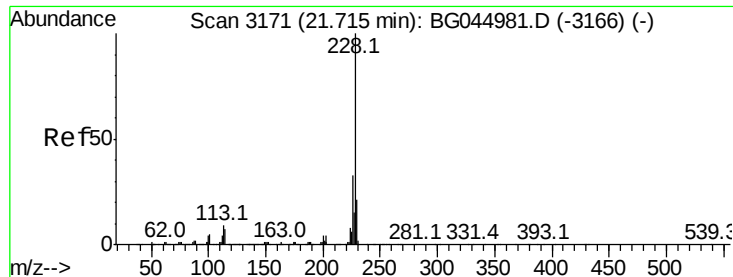


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 5.249 ng

RT: 21.69 min Scan# 3166

Delta R.T. -0.00 min

Lab File: BG045239.D

Acq: 4 May 2020 18:32

Instrument :

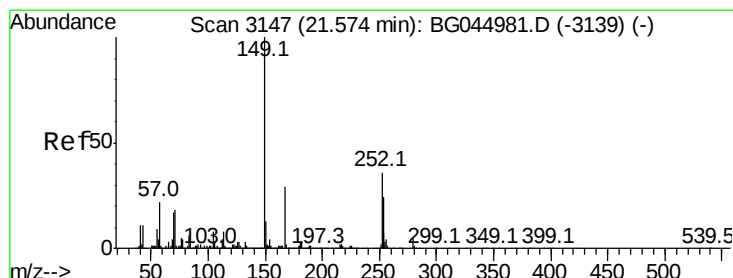
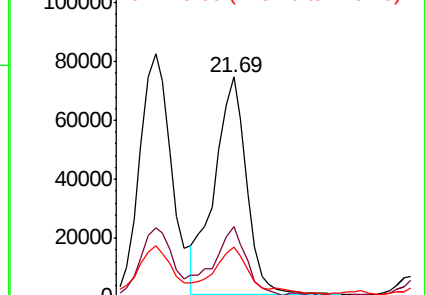
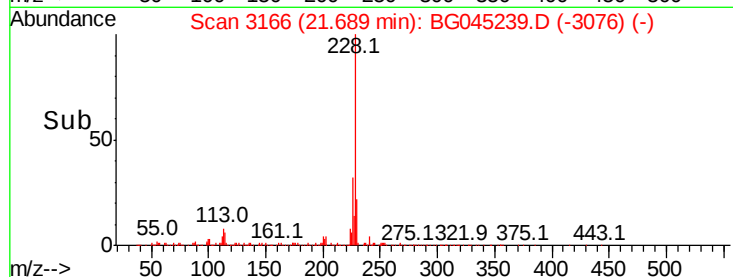
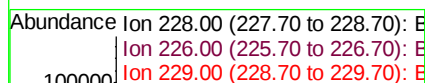
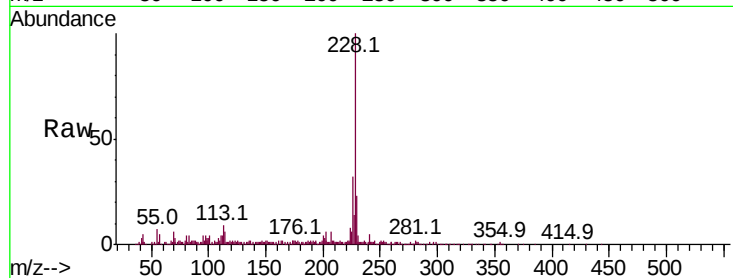
BNA_G

ClientSampleId :

FK-SF-03-009-B

Tot Ion:228 Resp: 136929

Ion	Ratio	Lower	Upper
228	100		
226	32.3	26.2	39.4
229	22.6	17.0	25.6



#84

Bis(2-ethylhexyl)phthalate

Concen: 2.737 ng

RT: 21.54 min Scan# 3141

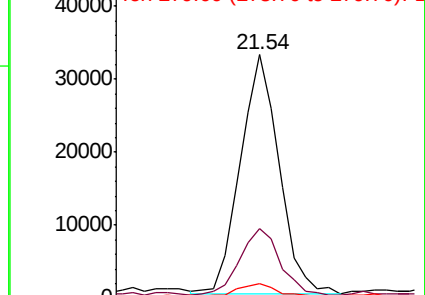
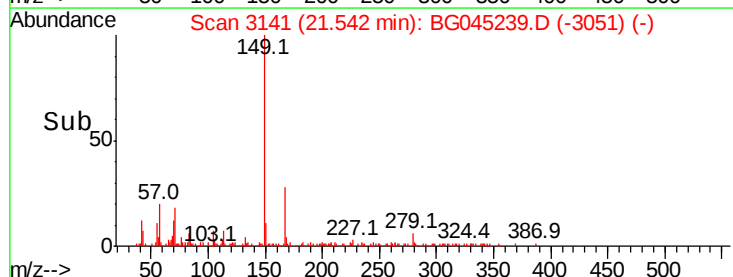
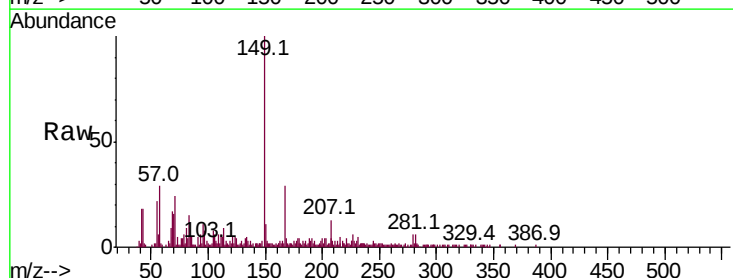
Delta R.T. -0.00 min

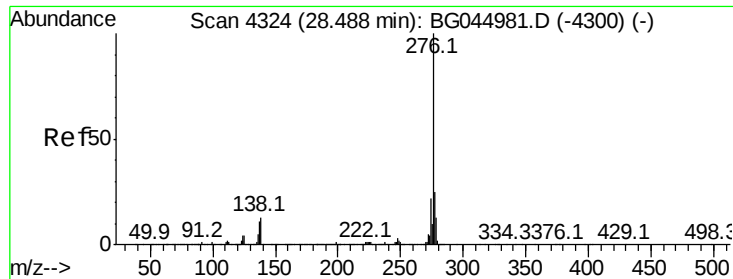
Lab File: BG045239.D

Acq: 4 May 2020 18:32

Tgt Ion:149 Resp: 45057

Ion	Ratio	Lower	Upper
149	100		
167	28.5	23.4	35.0
279	5.8	4.3	6.5

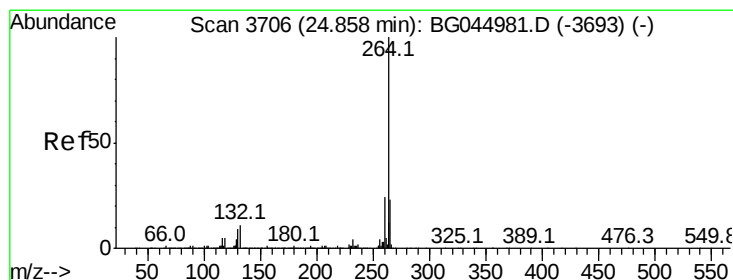
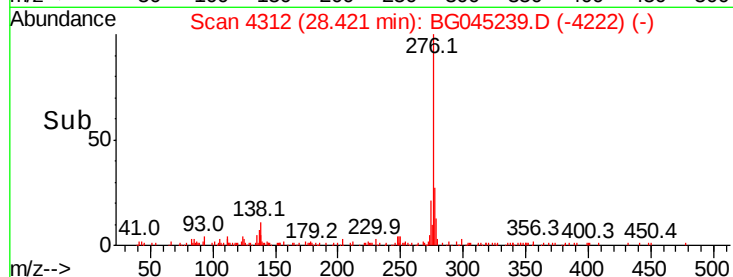
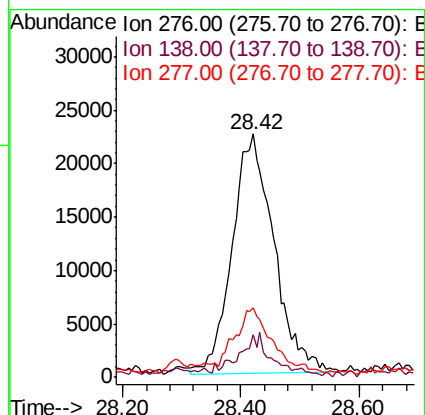
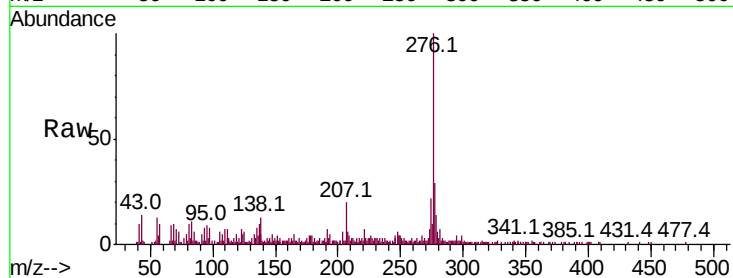




#86
Indeno(1,2,3-cd)pyrene
Concen: 3.181 ng
RT: 28.42 min Scan# 4312
Delta R.T. -0.00 min
Lab File: BG045239.D
Acq: 4 May 2020 18:32

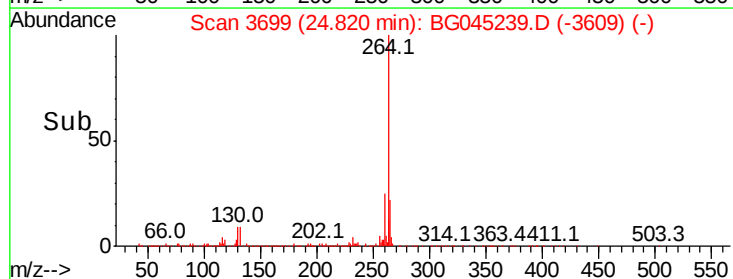
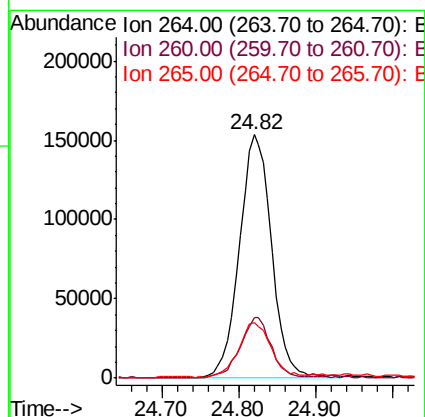
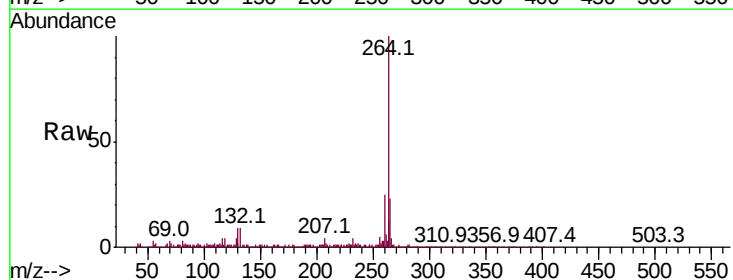
Instrument :
BNA_G
ClientSampleId :
FK-SF-03-009-B

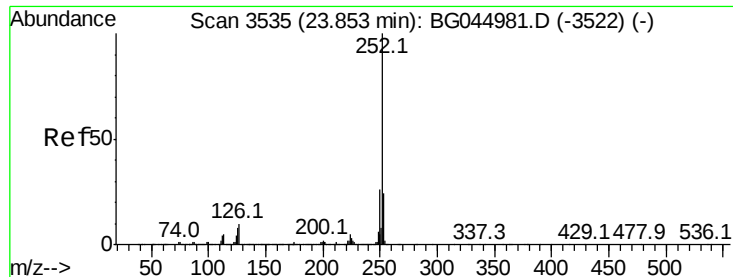
Tot Ion:276 Resp: 110159
Ion Ratio Lower Upper
276 100
138 11.1 9.6 14.4
277 24.2 20.6 31.0



#87
Perylene-d12
Concen: 20.000 ng
RT: 24.82 min Scan# 3699
Delta R.T. -0.00 min
Lab File: BG045239.D
Acq: 4 May 2020 18:32

Tgt Ion:264 Resp: 446209
Ion Ratio Lower Upper
264 100
260 24.8 19.2 28.8
265 22.7 19.0 28.4





#88

Benzo(b)fluoranthene

Concen: 7.402 ng

RT: 23.82 min Scan# 3529

Delta R.T. 0.00 min

Lab File: BG045239.D

Acq: 4 May 2020 18:32

Instrument :

BNA_G

ClientSampleId :

FK-SF-03-009-B

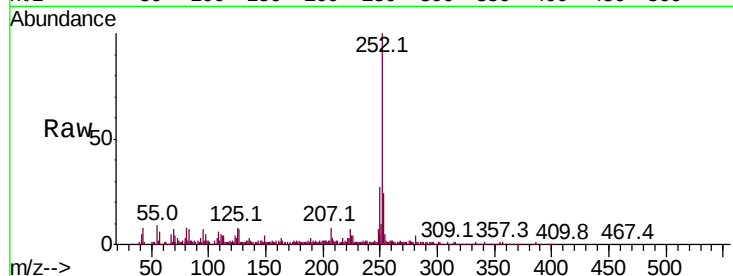
Tot Ion:252 Resp: 206901

Ion Ratio Lower Upper

252 100

253 24.5 18.8 28.2

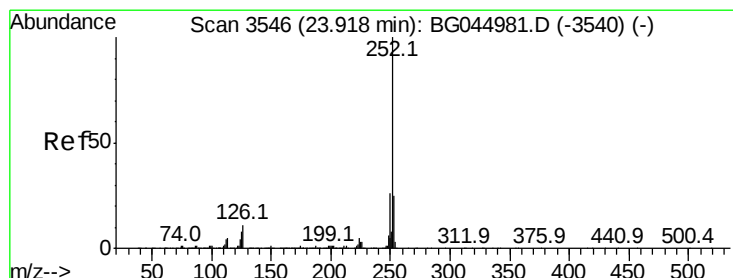
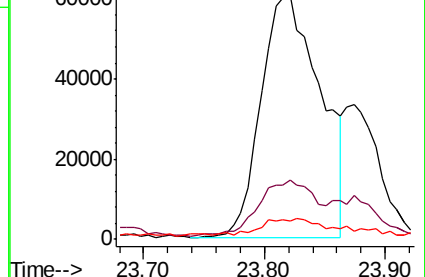
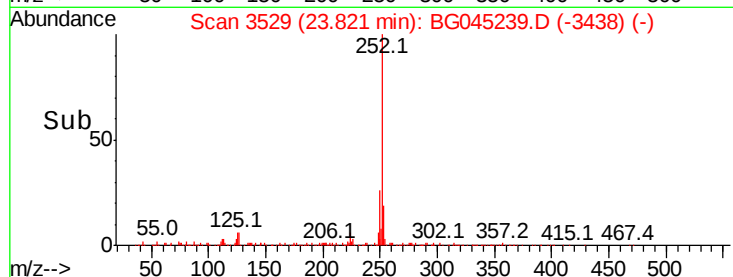
125 7.6 6.2 9.4



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



#89

Benzo(k)fluoranthene

Concen: 7.784 ng

RT: 23.82 min Scan# 3529

Delta R.T. -0.06 min

Lab File: BG045239.D

Acq: 4 May 2020 18:32

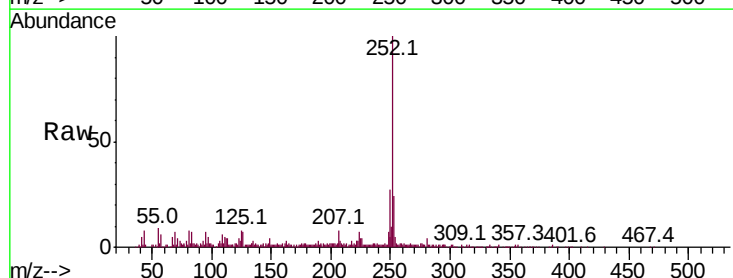
Tgt Ion:252 Resp: 206901

Ion Ratio Lower Upper

252 100

253 24.5 19.2 28.8

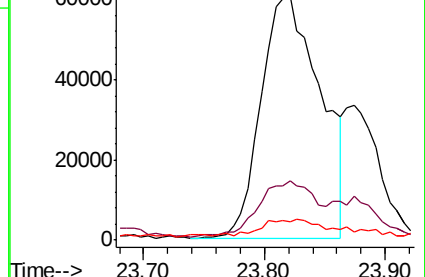
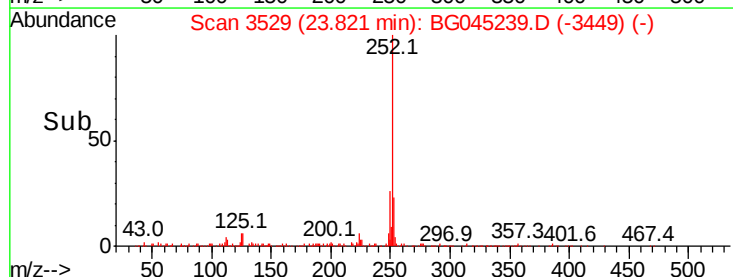
125 7.6 5.9 8.9

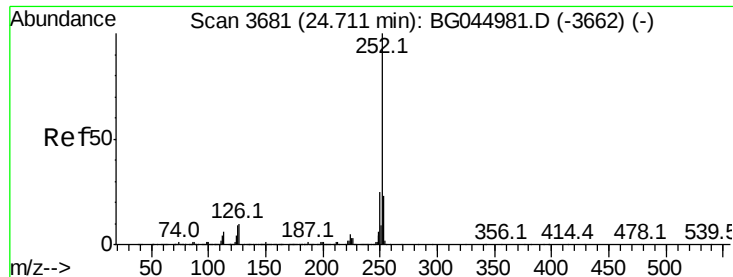


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Benzo(a)pyrene

Concen: 5.280 ng

RT: 24.67 min Scan# 3673

Delta R.T. -0.01 min

Lab File: BG045239.D

Acq: 4 May 2020 18:32

Instrument :

BNA_G

ClientSampleId :

FK-SF-03-009-B

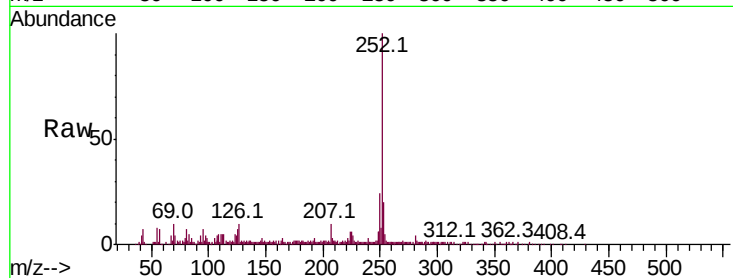
Tot Ion:252 Resp: 139339

Ion Ratio Lower Upper

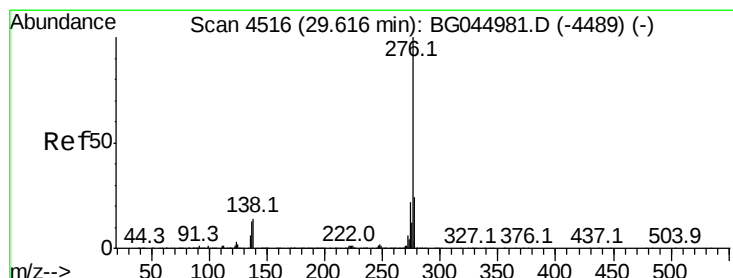
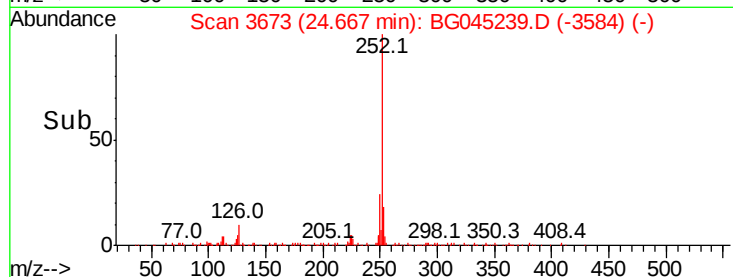
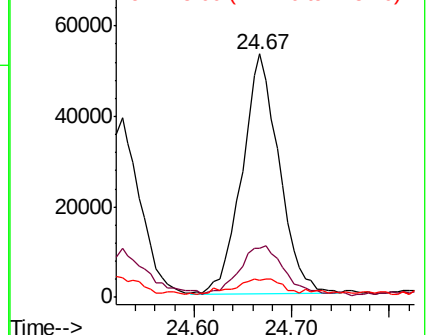
252 100

253 20.0 18.3 27.5

125 7.1 7.0 10.6



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: 4.016 ng

RT: 29.54 min Scan# 4502

Delta R.T. -0.01 min

Lab File: BG045239.D

Acq: 4 May 2020 18:32

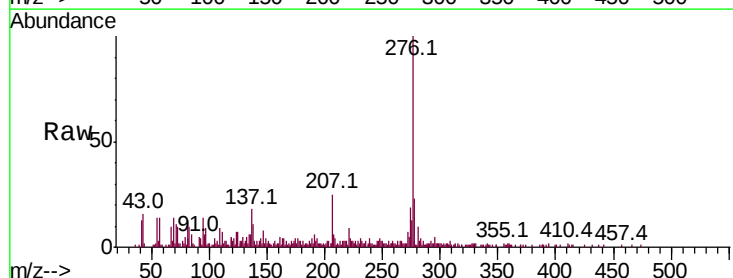
Tgt Ion:276 Resp: 107057

Ion Ratio Lower Upper

276 100

277 22.7 19.3 28.9

138 10.8 11.4 17.2#



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

