

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG041423\
 Data File : BG057108.D
 Acq On : 14 Apr 2023 20:37
 Operator : CG/JU
 Sample : 02349-01
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 NB-07-041323

Quant Time: Apr 15 02:49:42 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG033023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Apr 13 05:15:23 2023
 Response via : Initial Calibration

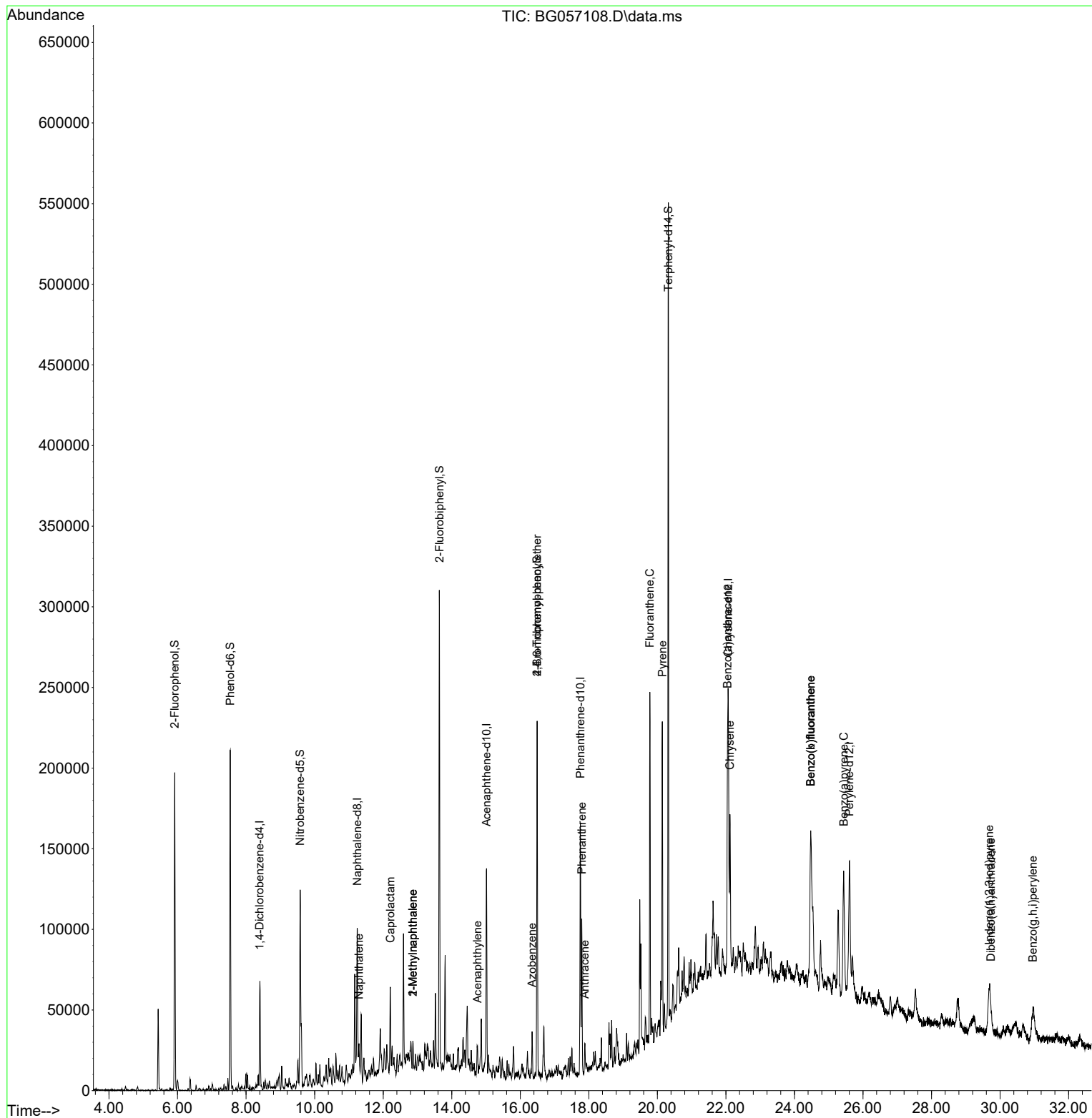
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.396	152	19329	20.000	ng	-0.02
21) Naphthalene-d8	11.245	136	71904	20.000	ng	# 0.00
39) Acenaphthene-d10	15.010	164	44924	20.000	ng	0.00
64) Phenanthrene-d10	17.754	188	96243	20.000	ng	# 0.00
76) Chrysene-d12	22.071	240	85512	20.000	ng	0.00
86) Perylene-d12	25.602	264	90657	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.917	112	86182	71.359	ng	0.00
7) Phenol-d6	7.538	99	120489	66.705	ng	0.00
23) Nitrobenzene-d5	9.577	82	77089	43.868	ng	0.00
42) 2,4,6-Tribromophenol	16.491	330	44259	61.670	ng	0.00
45) 2-Fluorobiphenyl	13.642	172	148720	44.890	ng	0.00
79) Terphenyl-d14	20.321	244	238642	47.224	ng	0.00
Target Compounds						
						Qvalue
31) Naphthalene	11.292	128	10458	2.668	ng	98
35) Caprolactam	12.208	113	1680	3.699	ng	# 1
37) 2-Methylnaphthalene	12.866	142	7039	2.263	ng	94
38) 1-Methylnaphthalene	12.866	142	7039	2.410	ng	88
49) Acenaphthylene	14.746	152	8781	2.197	ng	# 92
63) Azobenzene	16.344	77	7724	2.184	ng	# 1
67) 4-Bromophenyl-phenylether	16.491	248	2621	2.201	ng	# 1
71) Phenanthrene	17.795	178	56869	11.590	ng	98
72) Anthracene	17.883	178	14396	2.862	ng	95
75) Fluoranthene	19.780	202	135085	21.717	ng	99
78) Pyrene	20.145	202	117822	19.921	ng	99
81) Benzo(a)anthracene	22.048	228	82149	13.883	ng	98
83) Chrysene	22.118	228	76178	13.749	ng	95
87) Indeno(1,2,3-cd)pyrene	29.685	276	58868	8.786	ng	# 91
88) Benzo(b)fluoranthene	24.474	252	134273	23.685	ng	# 99
89) Benzo(k)fluoranthene	24.474	252	134273	23.725	ng	# 97
90) Benzo(a)pyrene	25.438	252	83791	15.041	ng	# 98
91) Dibenzo(a,h)anthracene	29.732	278	16503	2.997	ng	# 90
92) Benzo(g,h,i)perylene	30.959	276	52607	9.755	ng	97

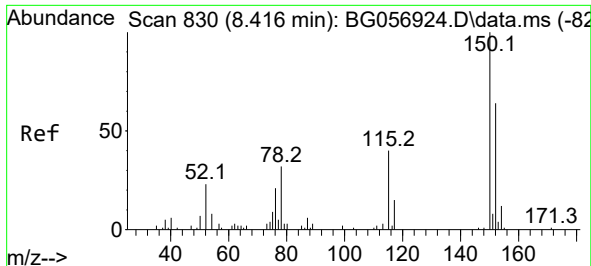
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Apr 15 02:49:42 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG033023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 13 05:15:23 2023
Response via : Initial Calibration

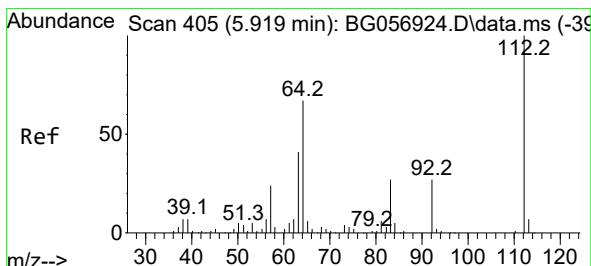
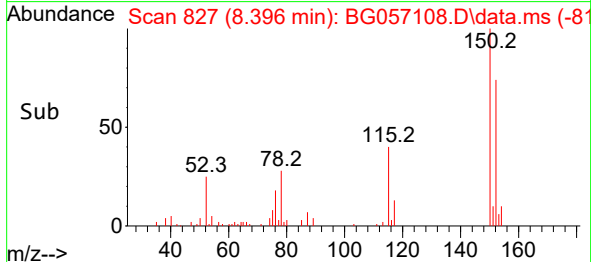
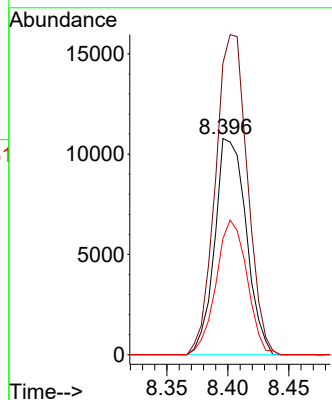
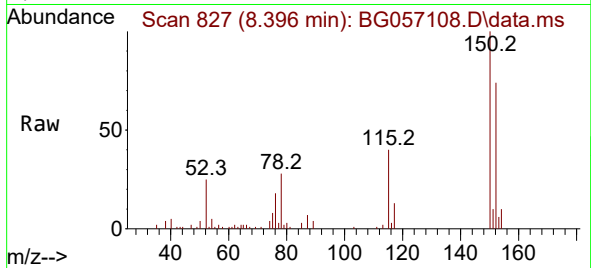




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.396 min Scan# 81
Delta R.T. -0.015 min
Lab File: BG057108.D
Acq: 14 Apr 2023 20:37

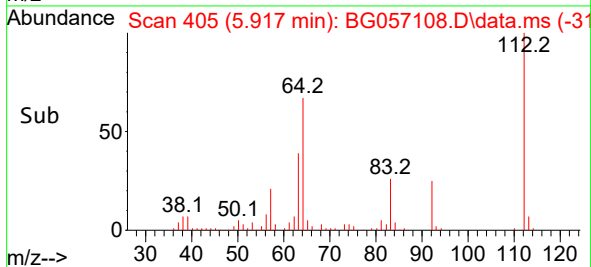
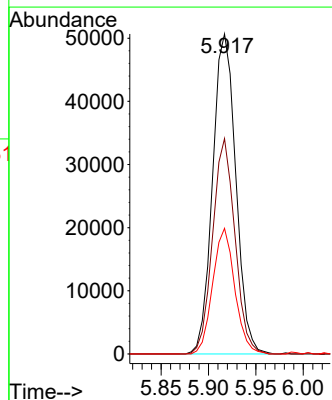
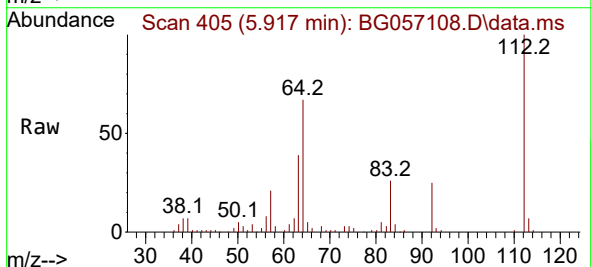
Instrument :
BNA_G
ClientSampleId :
NB-07-041323

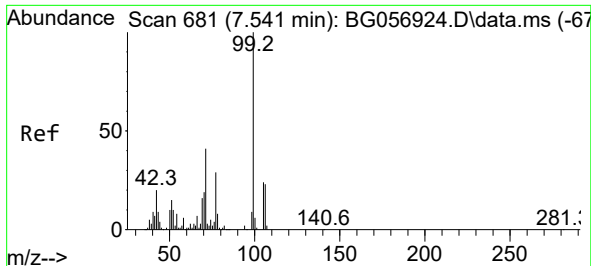
Tgt Ion:152 Resp: 19329
Ion Ratio Lower Upper
152 100
150 134.9 124.1 186.1
115 53.7 49.1 73.7



#5
2-Fluorophenol
Concen: 71.359 ng
RT: 5.917 min Scan# 405
Delta R.T. 0.002 min
Lab File: BG057108.D
Acq: 14 Apr 2023 20:37

Tgt Ion:112 Resp: 86182
Ion Ratio Lower Upper
112 100
64 67.3 53.2 79.8
63 39.2 32.6 48.8

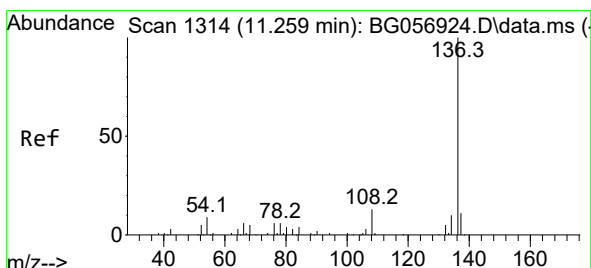
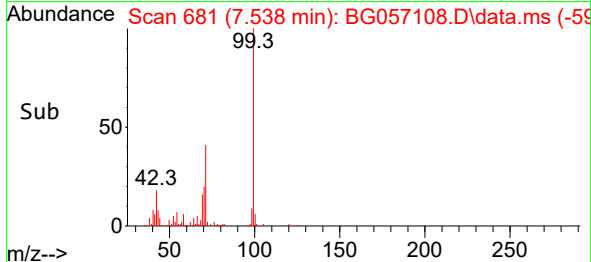
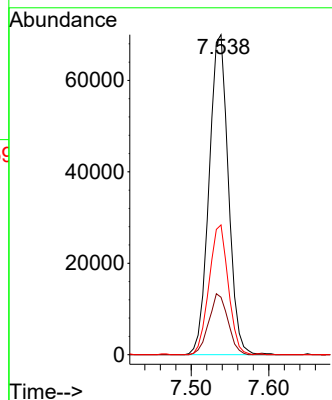
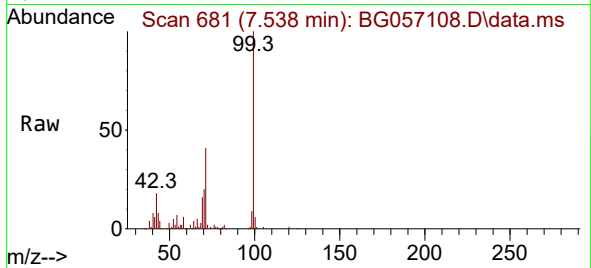




#7
Phenol-d6
Concen: 66.705 ng
RT: 7.538 min Scan# 61
Delta R.T. 0.002 min
Lab File: BG057108.D
Acq: 14 Apr 2023 20:37

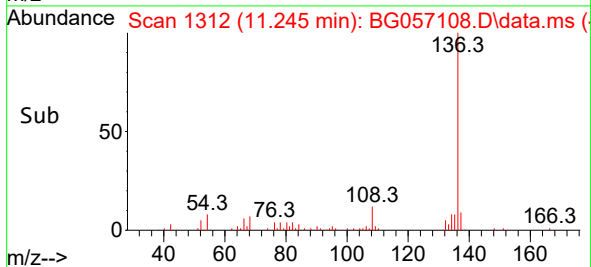
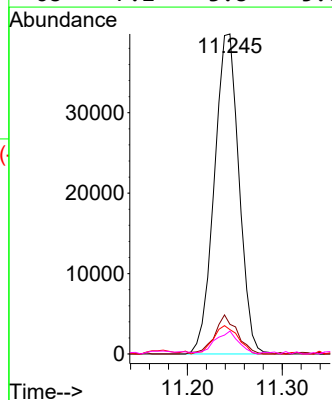
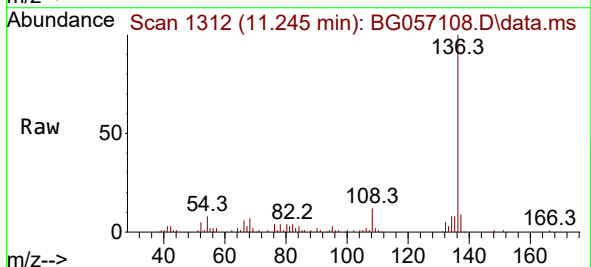
Instrument :
BNA_G
ClientSampleId :
NB-07-041323

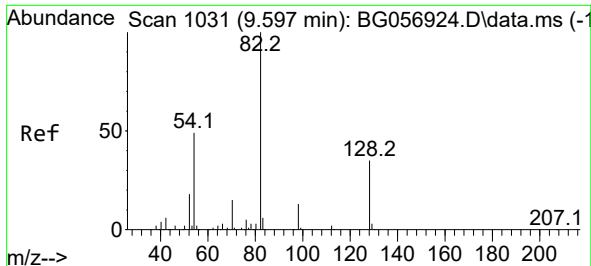
Tgt Ion: 99 Resp: 120489
Ion Ratio Lower Upper
99 100
42 18.0 15.7 23.5
71 40.6 32.5 48.7



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.245 min Scan# 1312
Delta R.T. -0.004 min
Lab File: BG057108.D
Acq: 14 Apr 2023 20:37

Tgt Ion: 136 Resp: 71904
Ion Ratio Lower Upper
136 100
137 9.3 8.6 13.0
54 7.6 6.9 10.3
68 7.2 3.8 5.6#





#23

Nitrobenzene-d5

Concen: 43.868 ng

RT: 9.577 min Scan# 1028

Delta R.T. -0.009 min

Lab File: BG057108.D

Acq: 14 Apr 2023 20:37

Instrument :

BNA_G

ClientSampleId :

NB-07-041323

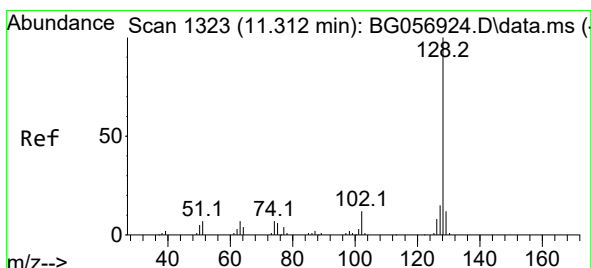
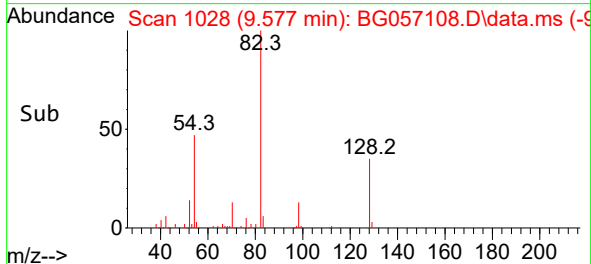
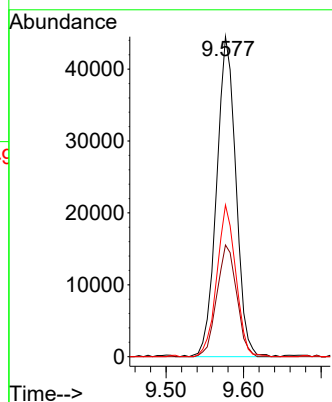
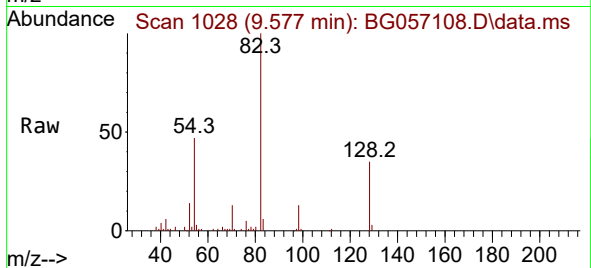
Tgt Ion: 82 Resp: 77089

Ion Ratio Lower Upper

82 100

128 34.9 27.9 41.9

54 47.4 39.4 59.2



#31

Naphthalene

Concen: 2.668 ng

RT: 11.292 min Scan# 1320

Delta R.T. -0.009 min

Lab File: BG057108.D

Acq: 14 Apr 2023 20:37

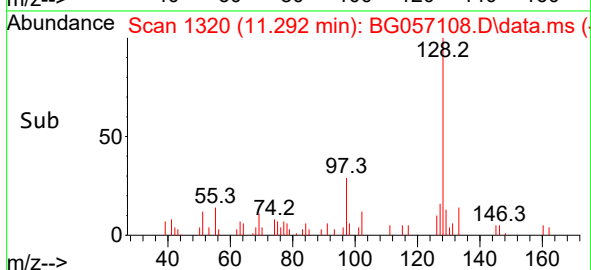
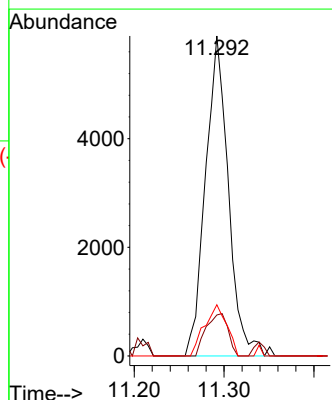
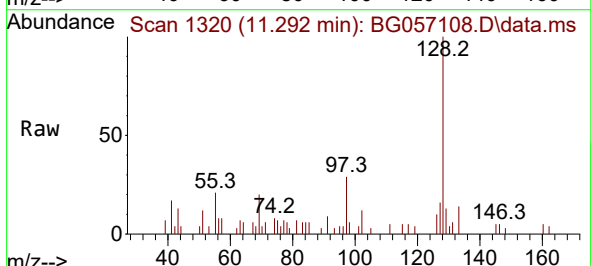
Tgt Ion: 128 Resp: 10458

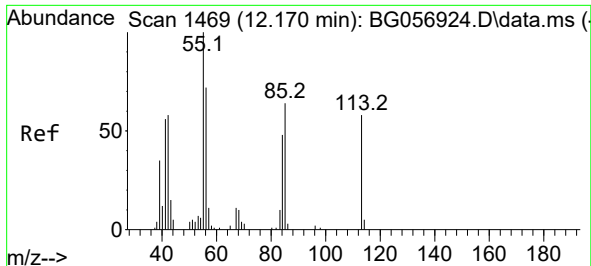
Ion Ratio Lower Upper

128 100

129 12.8 9.4 14.2

127 16.0 12.2 18.4

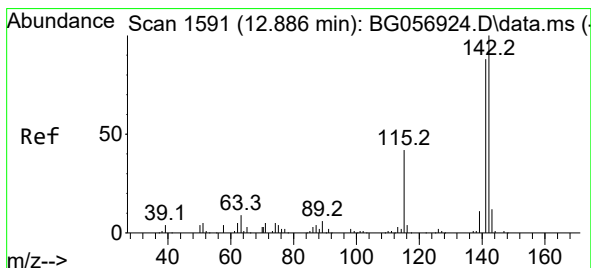
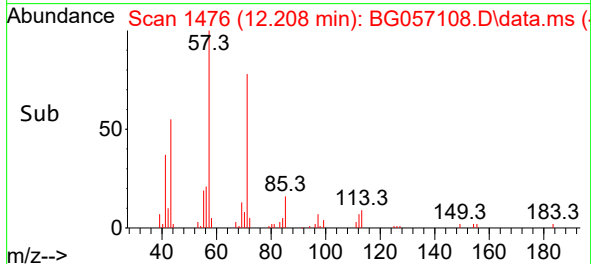
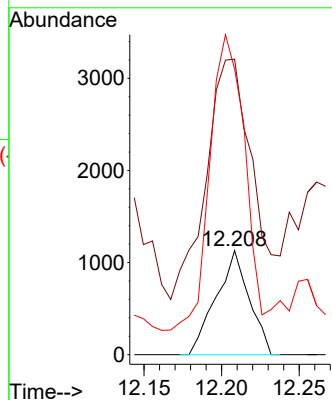
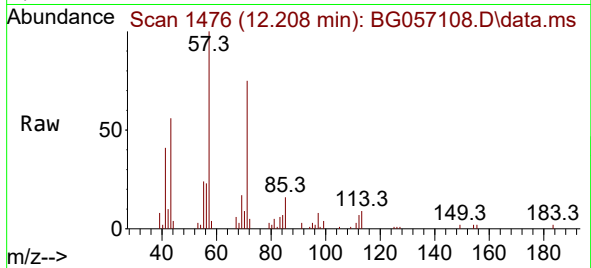




#35
Caprolactam
Concen: 3.699 ng
RT: 12.208 min Scan# 1469
Delta R.T. 0.043 min
Lab File: BG057108.D
Acq: 14 Apr 2023 20:37

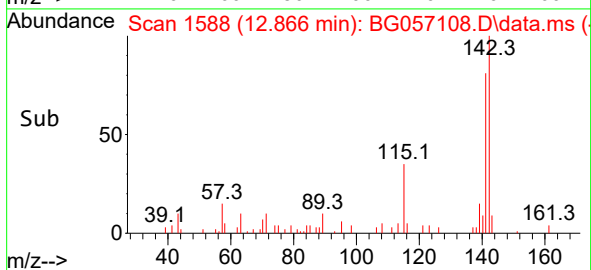
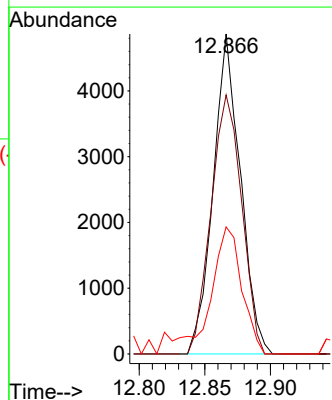
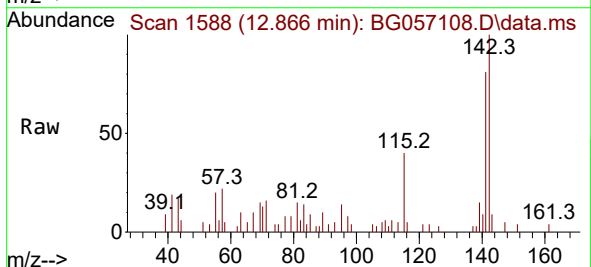
Instrument :
BNA_G
ClientSampleId :
NB-07-041323

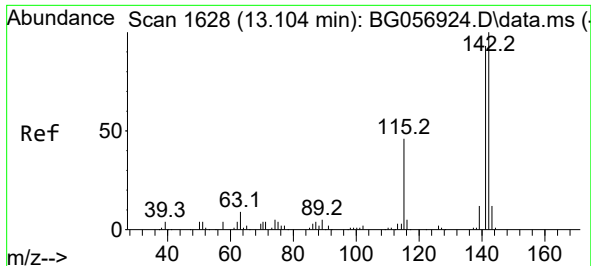
Tgt Ion:113 Resp: 1680
Ion Ratio Lower Upper
113 100
55 283.7 151.6 191.6#
56 274.4 103.7 143.7#



#37
2-Methylnaphthalene
Concen: 2.263 ng
RT: 12.866 min Scan# 1588
Delta R.T. -0.009 min
Lab File: BG057108.D
Acq: 14 Apr 2023 20:37

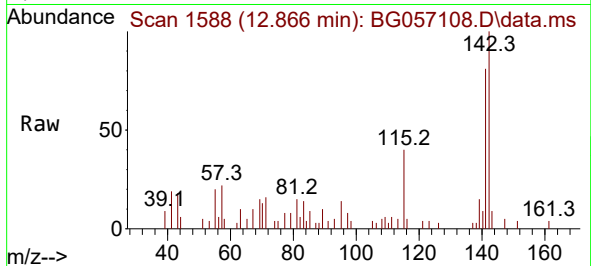
Tgt Ion:142 Resp: 7039
Ion Ratio Lower Upper
142 100
141 80.9 70.3 105.5
115 39.7 33.5 50.3



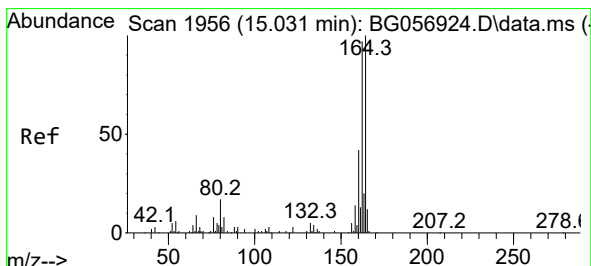
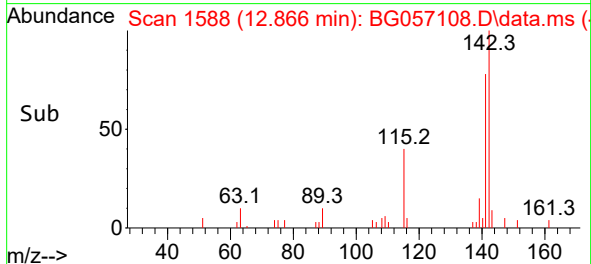
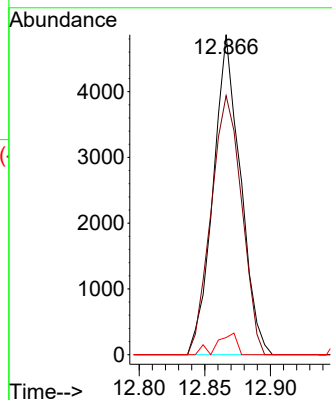


#38
1-Methylnaphthalene
Concen: 2.410 ng
RT: 12.866 min Scan# 1588
Delta R.T. -0.227 min
Lab File: BG057108.D
Acq: 14 Apr 2023 20:37

Instrument :
BNA_G
ClientSampleId :
NB-07-041323

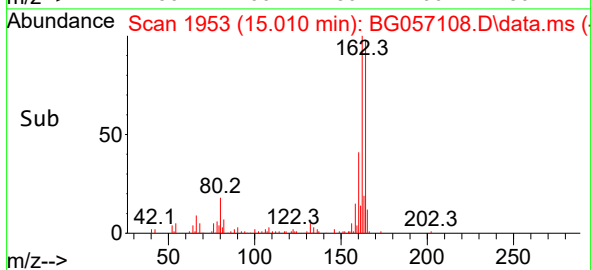
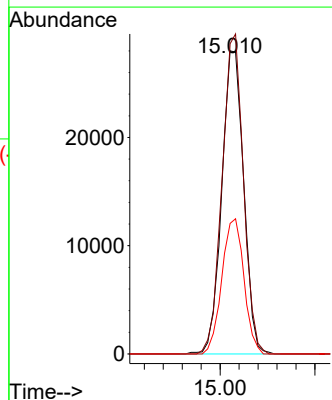
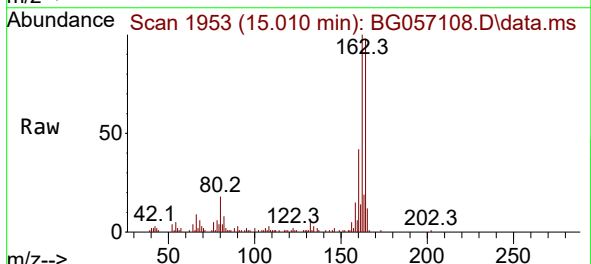


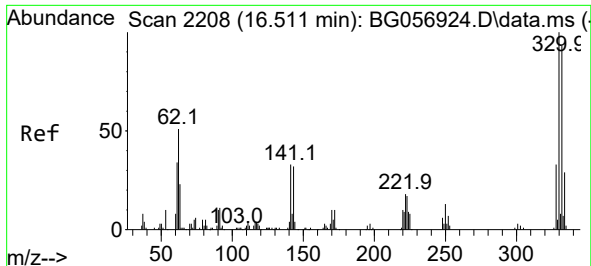
Tgt Ion:142 Resp: 7039
Ion Ratio Lower Upper
142 100
141 80.9 74.0 111.0
116 5.3 3.7 5.5



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 15.010 min Scan# 1953
Delta R.T. -0.009 min
Lab File: BG057108.D
Acq: 14 Apr 2023 20:37

Tgt Ion:164 Resp: 44924
Ion Ratio Lower Upper
164 100
162 102.4 77.8 116.8
160 43.1 33.5 50.3

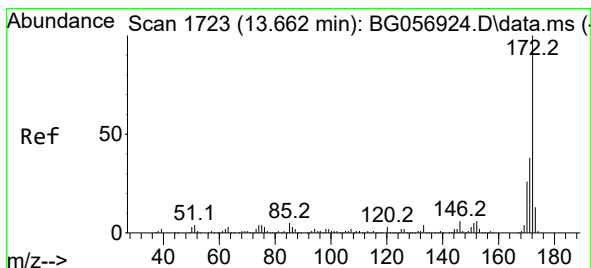
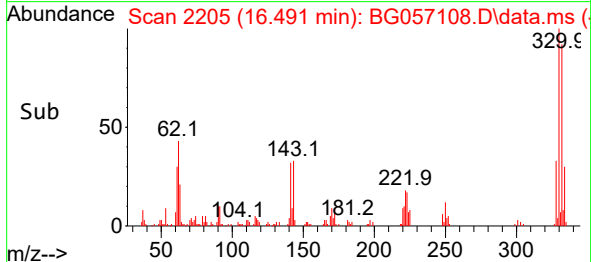
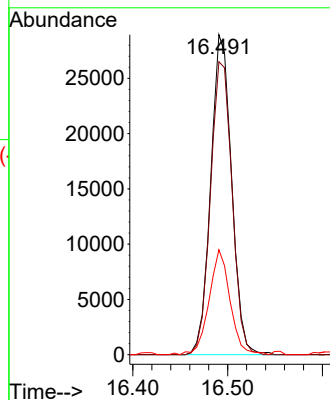
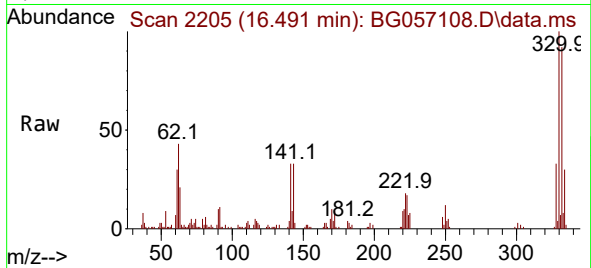




#42
2,4,6-Tribromophenol
Concen: 61.670 ng
RT: 16.491 min Scan# 21
Delta R.T. -0.009 min
Lab File: BG057108.D
Acq: 14 Apr 2023 20:37

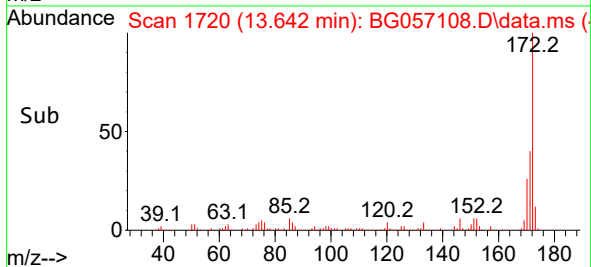
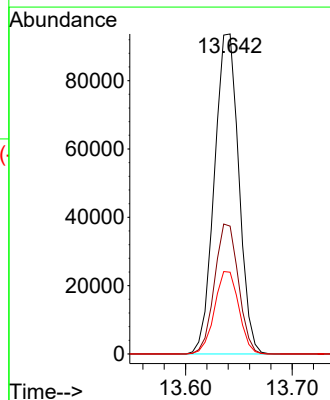
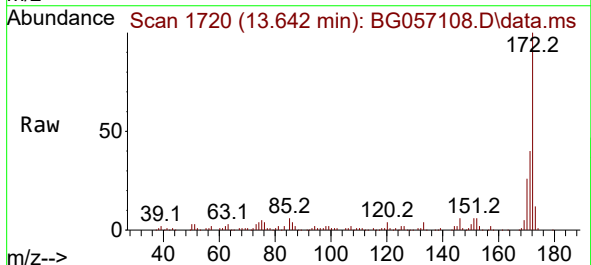
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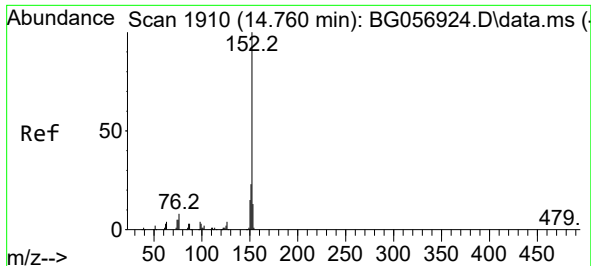
Tgt Ion:330 Resp: 44259
Ion Ratio Lower Upper
330 100
332 94.4 76.1 114.1
141 33.0 25.8 38.6



#45
2-Fluorobiphenyl
Concen: 44.890 ng
RT: 13.642 min Scan# 1720
Delta R.T. -0.004 min
Lab File: BG057108.D
Acq: 14 Apr 2023 20:37

Tgt Ion:172 Resp: 148720
Ion Ratio Lower Upper
172 100
171 40.0 30.6 46.0
170 25.6 20.6 30.8





#49

Acenaphthylene

Concen: 2.197 ng

RT: 14.746 min Scan# 1910

Delta R.T. -0.004 min

Lab File: BG057108.D

Acq: 14 Apr 2023 20:37

Instrument :

BNA_G

ClientSampleId :

NB-07-041323

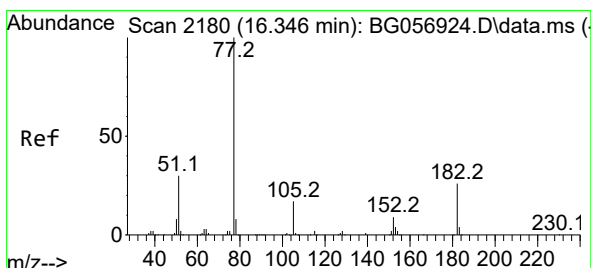
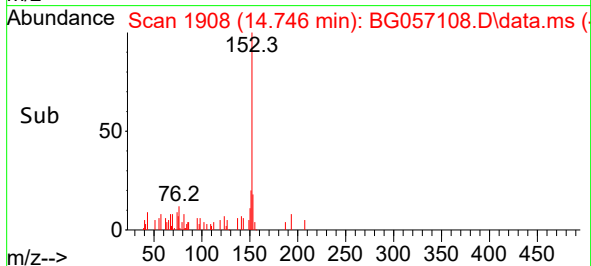
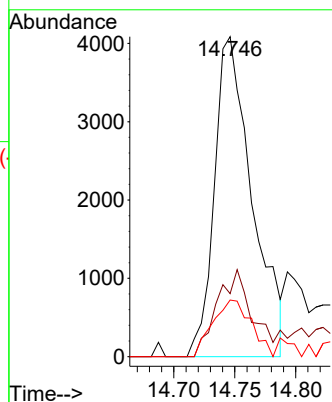
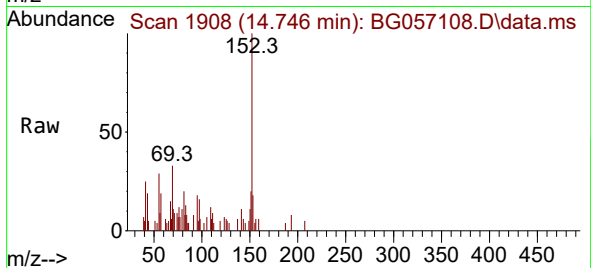
Tgt Ion:152 Resp: 8781

Ion Ratio Lower Upper

152 100

151 19.7 18.2 27.2

153 17.7 10.5 15.7#



#63

Azobenzene

Concen: 2.184 ng

RT: 16.344 min Scan# 2180

Delta R.T. 0.008 min

Lab File: BG057108.D

Acq: 14 Apr 2023 20:37

Tgt Ion: 77 Resp: 7724

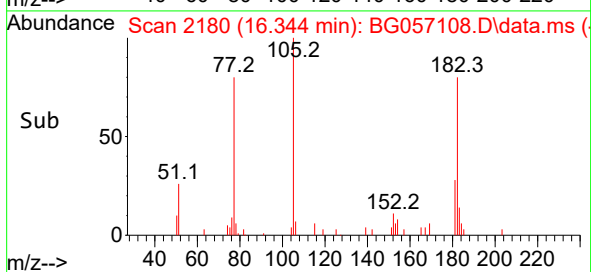
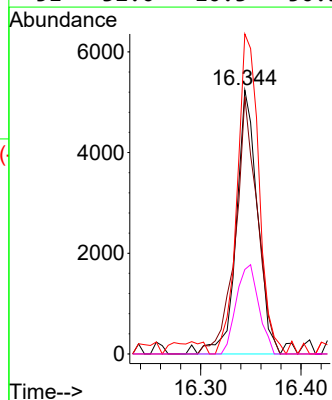
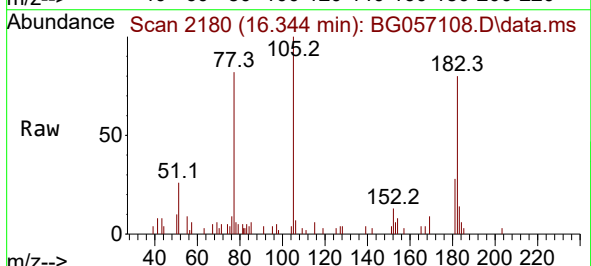
Ion Ratio Lower Upper

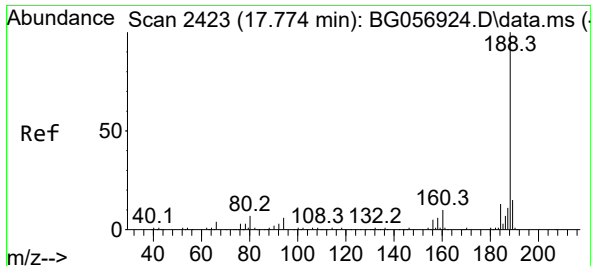
77 100

182 97.5 5.9 45.9#

105 121.3 0.0 36.8#

51 32.0 10.3 50.3

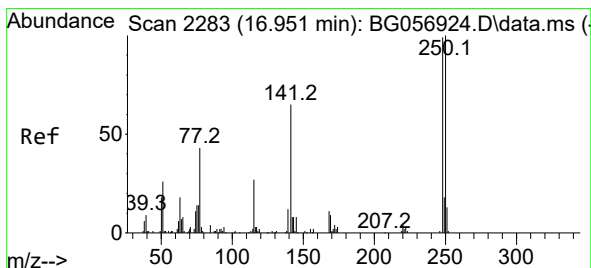
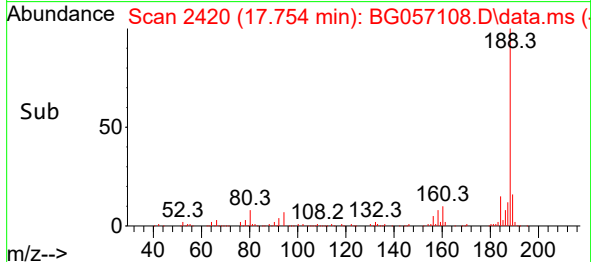
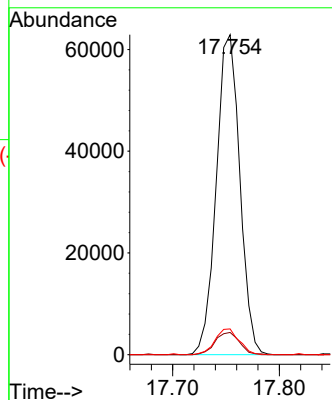
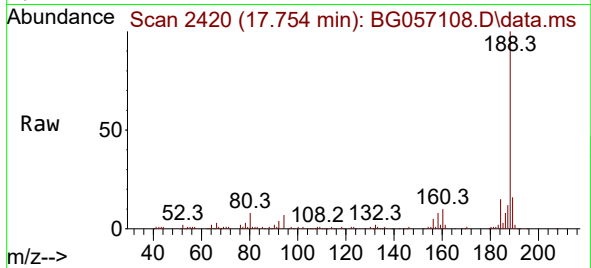




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.754 min Scan# 2423
Delta R.T. -0.009 min
Lab File: BG057108.D
Acq: 14 Apr 2023 20:37

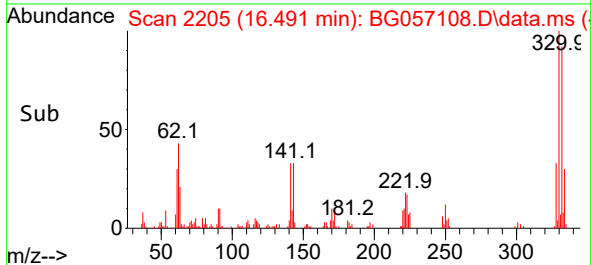
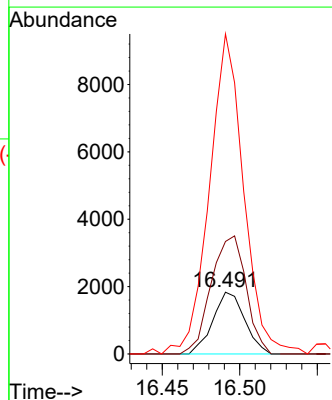
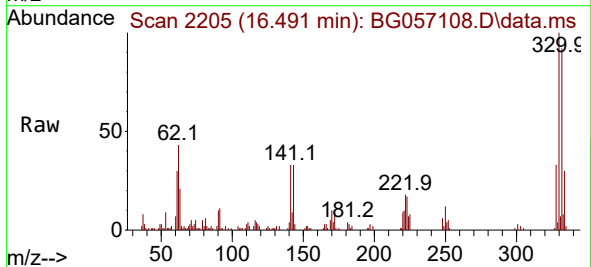
Instrument :
BNA_G
ClientSampleId :
NB-07-041323

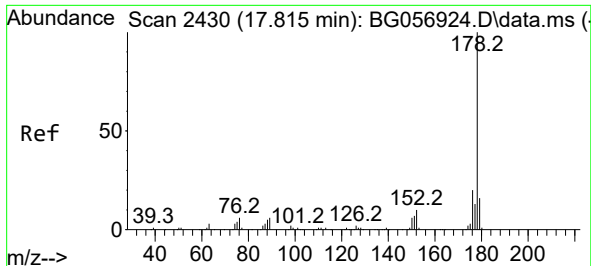
Tgt Ion:188 Resp: 96243
Ion Ratio Lower Upper
188 100
94 6.9 4.6 6.8#
80 8.0 5.5 8.3



#67
4-Bromophenyl-phenylether
Concen: 2.201 ng
RT: 16.491 min Scan# 2205
Delta R.T. -0.444 min
Lab File: BG057108.D
Acq: 14 Apr 2023 20:37

Tgt Ion:248 Resp: 2621
Ion Ratio Lower Upper
248 100
250 182.1 80.5 120.7#
141 518.3 52.0 78.0#

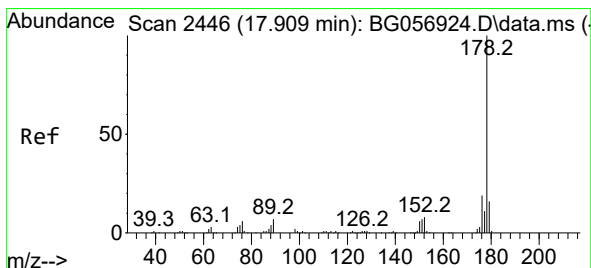
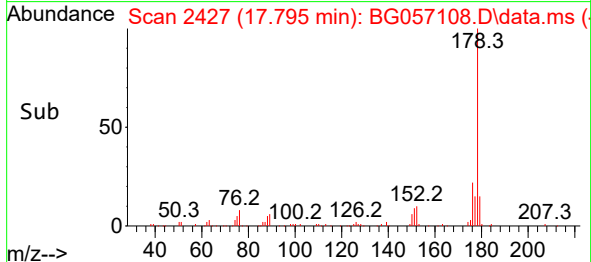
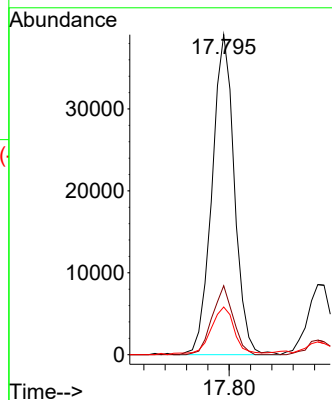
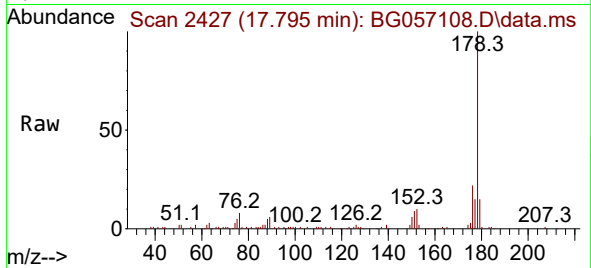




#71
Phenanthrene
Concen: 11.590 ng
RT: 17.795 min Scan# 2427
Delta R.T. -0.009 min
Lab File: BG057108.D
Acq: 14 Apr 2023 20:37

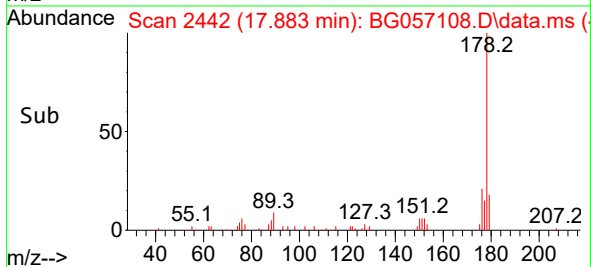
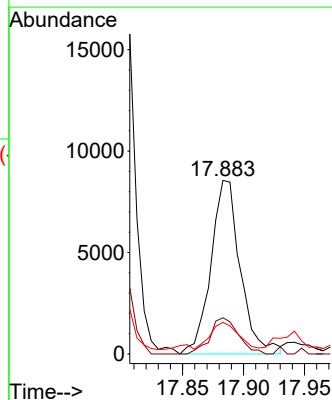
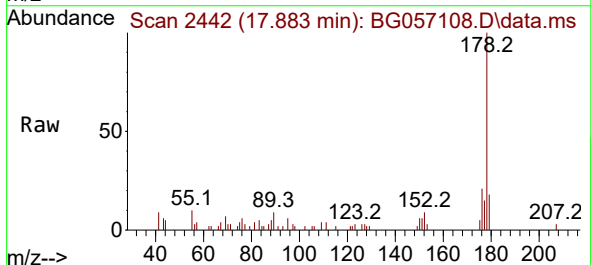
Instrument :
BNA_G
ClientSampleId :
NB-07-041323

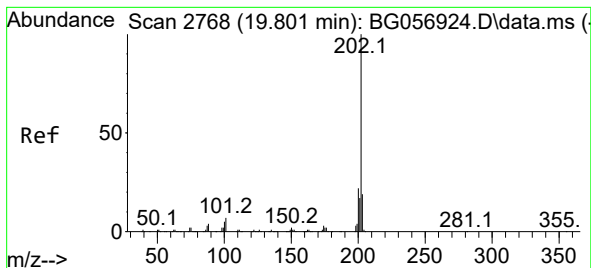
Tgt Ion:178 Resp: 56869
Ion Ratio Lower Upper
178 100
176 21.6 16.2 24.2
179 14.9 12.5 18.7



#72
Anthracene
Concen: 2.862 ng
RT: 17.883 min Scan# 2442
Delta R.T. -0.009 min
Lab File: BG057108.D
Acq: 14 Apr 2023 20:37

Tgt Ion:178 Resp: 14396
Ion Ratio Lower Upper
178 100
176 20.8 15.4 23.2
179 18.3 12.4 18.6





#75

Fluoranthene

Concen: 21.717 ng

RT: 19.780 min Scan# 21

Delta R.T. -0.009 min

Lab File: BG057108.D

Acq: 14 Apr 2023 20:37

Instrument :

BNA_G

ClientSampleId :

NB-07-041323

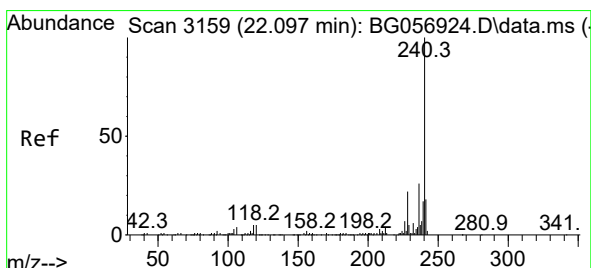
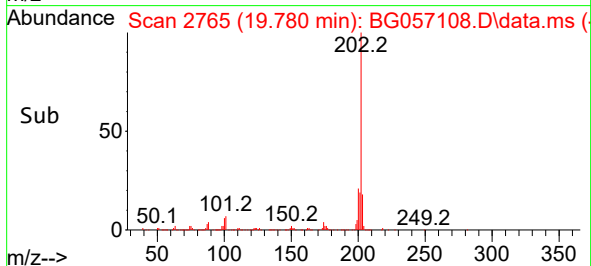
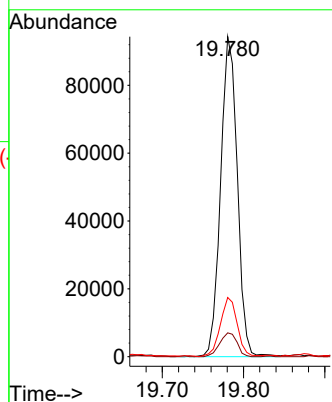
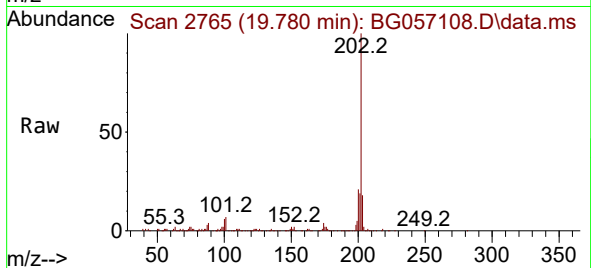
Tgt Ion:202 Resp: 135085

Ion Ratio Lower Upper

202 100

101 7.4 0.0 26.7

203 18.5 0.0 39.0



#76

Chrysene-d12

Concen: 20.000 ng

RT: 22.071 min Scan# 3155

Delta R.T. -0.009 min

Lab File: BG057108.D

Acq: 14 Apr 2023 20:37

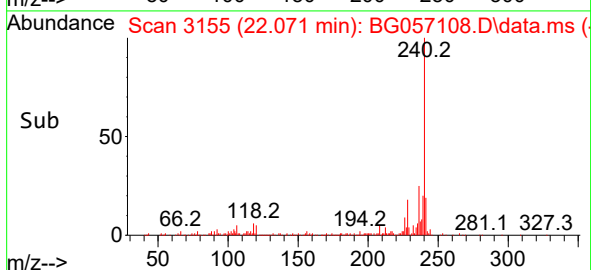
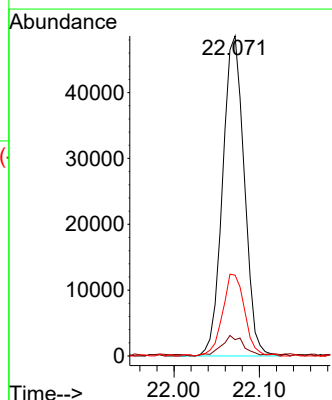
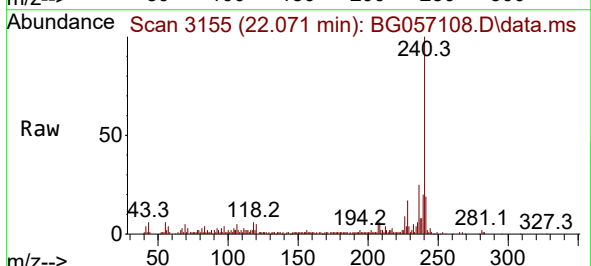
Tgt Ion:240 Resp: 85512

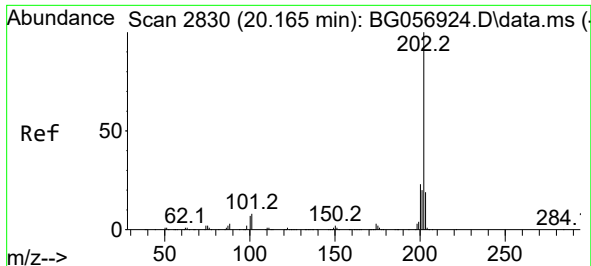
Ion Ratio Lower Upper

240 100

120 5.1 3.8 5.6

236 25.3 21.0 31.6

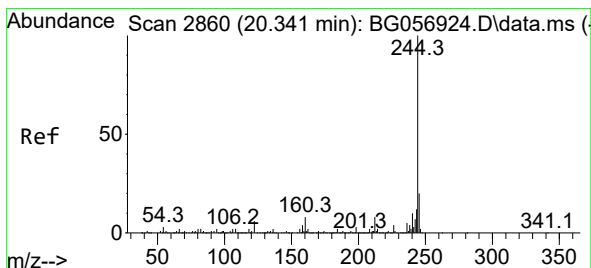
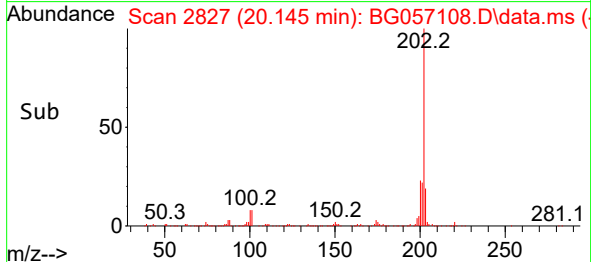
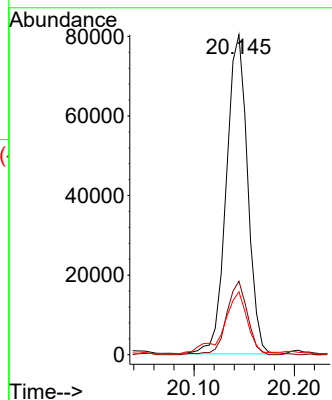
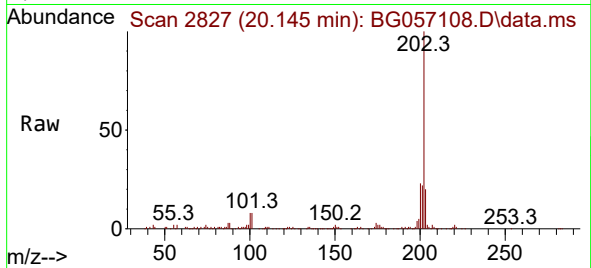




#78
 Pyrene
 Concen: 19.921 ng
 RT: 20.145 min Scan# 2827
 Delta R.T. -0.004 min
 Lab File: BG057108.D
 Acq: 14 Apr 2023 20:37

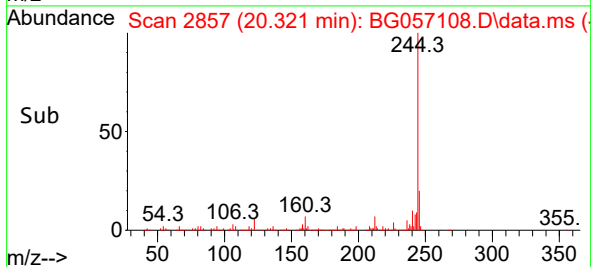
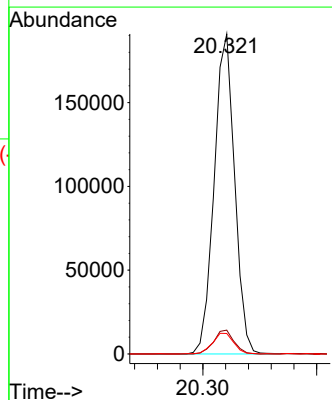
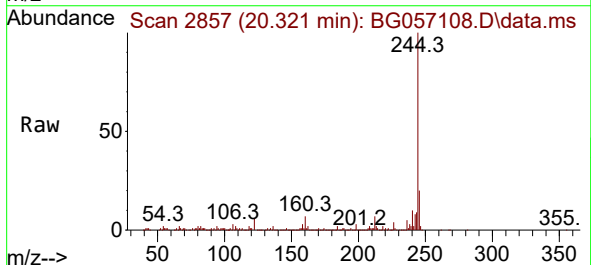
Instrument :
 BNA_G
 ClientSampleId :
 NB-07-041323

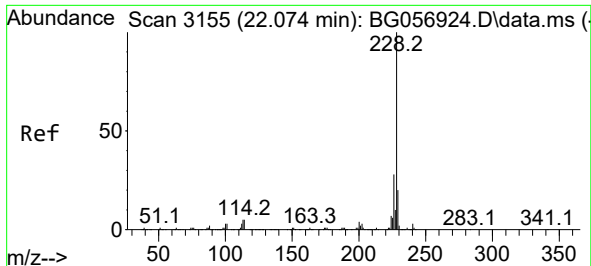
Tgt Ion:202 Resp: 117822
 Ion Ratio Lower Upper
 202 100
 200 22.9 18.7 28.1
 203 19.6 15.4 23.2



#79
 Terphenyl-d14
 Concen: 47.224 ng
 RT: 20.321 min Scan# 2857
 Delta R.T. -0.004 min
 Lab File: BG057108.D
 Acq: 14 Apr 2023 20:37

Tgt Ion:244 Resp: 238642
 Ion Ratio Lower Upper
 244 100
 212 7.5 6.1 9.1
 122 6.4 5.0 7.4

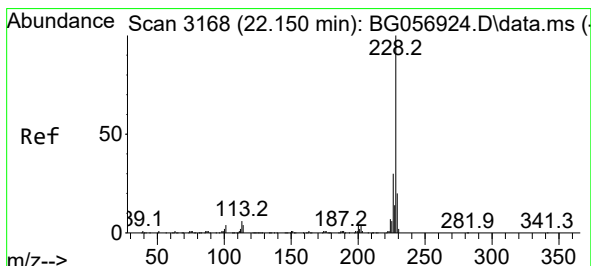
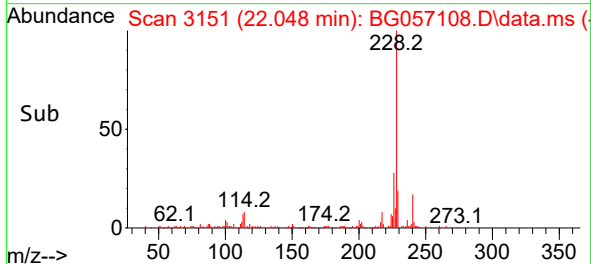
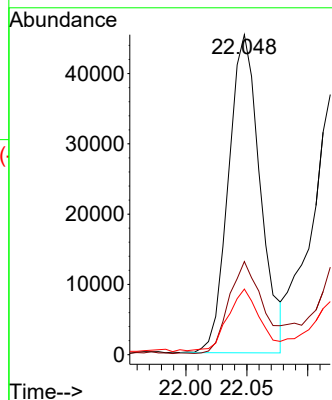
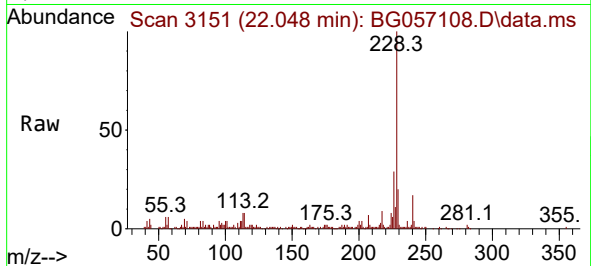




#81
Benzo(a)anthracene
Concen: 13.883 ng
RT: 22.048 min Scan# 3155
Delta R.T. -0.009 min
Lab File: BG057108.D
Acq: 14 Apr 2023 20:37

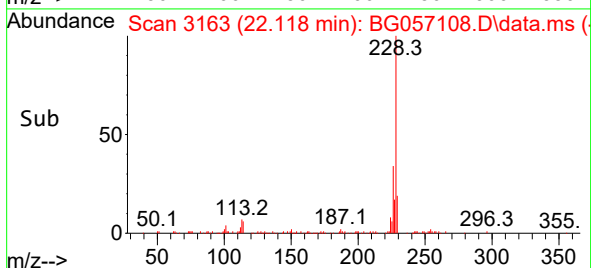
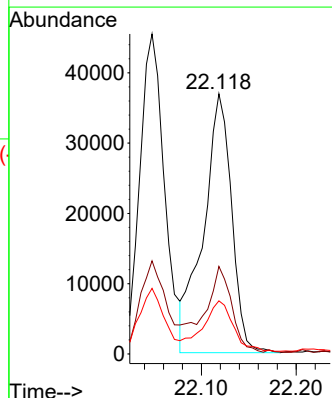
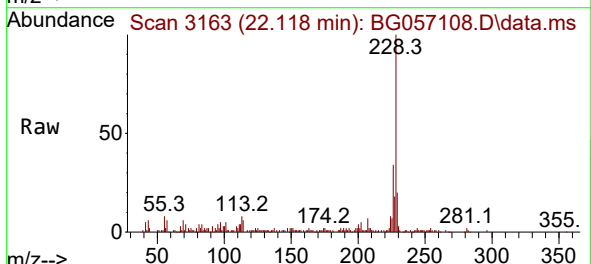
Instrument :
BNA_G
ClientSampleId :
NB-07-041323

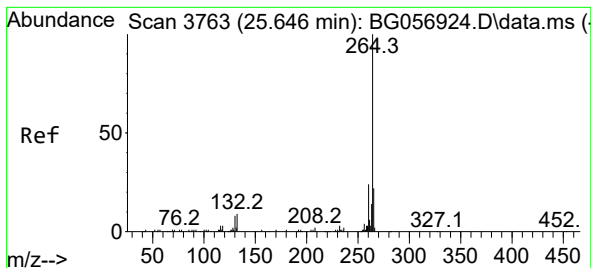
Tgt Ion:228 Resp: 82149
Ion Ratio Lower Upper
228 100
226 29.1 22.1 33.1
229 20.5 16.1 24.1



#83
Chrysene
Concen: 13.749 ng
RT: 22.118 min Scan# 3163
Delta R.T. -0.009 min
Lab File: BG057108.D
Acq: 14 Apr 2023 20:37

Tgt Ion:228 Resp: 76178
Ion Ratio Lower Upper
228 100
226 33.6 24.1 36.1
229 20.4 15.6 23.4





#86

Perylene-d12

Concen: 20.000 ng

RT: 25.602 min Scan# 31

Delta R.T. -0.009 min

Lab File: BG057108.D

Acq: 14 Apr 2023 20:37

Instrument :

BNA_G

ClientSampleId :

NB-07-041323

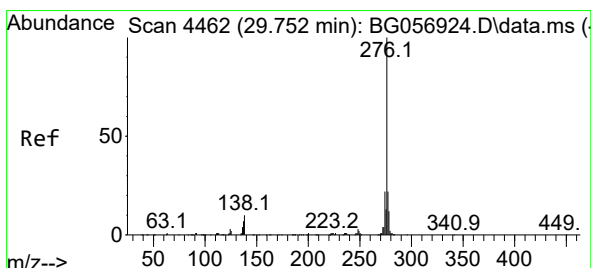
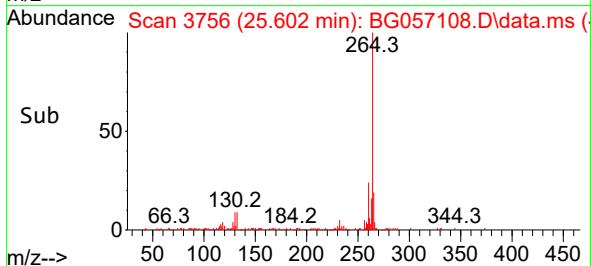
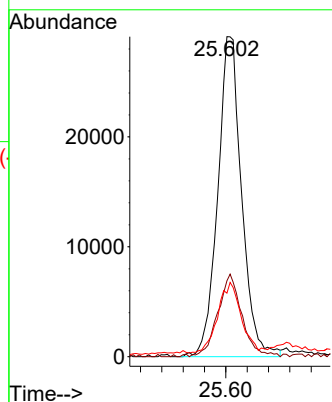
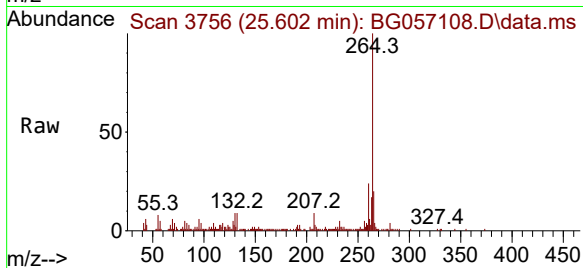
Tgt Ion:264 Resp: 90657

Ion Ratio Lower Upper

264 100

260 23.7 19.0 28.4

265 19.8 17.8 26.6



#87

Indeno(1,2,3-cd)pyrene

Concen: 8.786 ng

RT: 29.685 min Scan# 4451

Delta R.T. -0.027 min

Lab File: BG057108.D

Acq: 14 Apr 2023 20:37

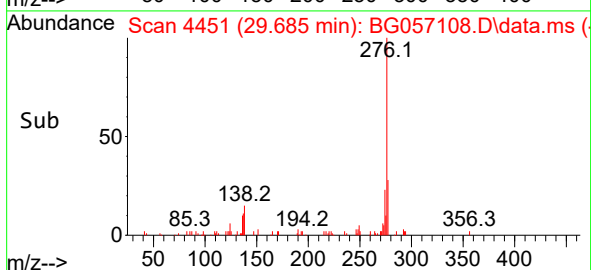
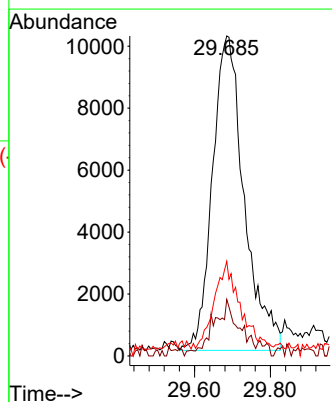
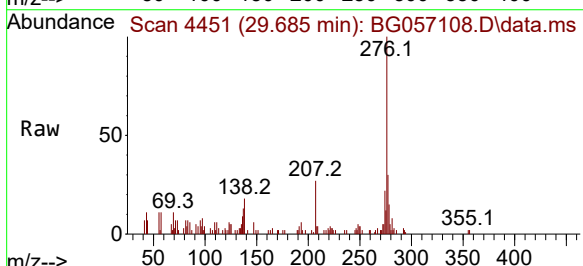
Tgt Ion:276 Resp: 58868

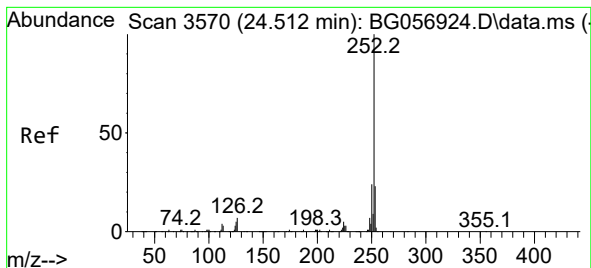
Ion Ratio Lower Upper

276 100

138 6.6 7.7 11.5#

277 21.4 21.0 31.4





#88

Benzo(b)fluoranthene

Concen: 23.685 ng

RT: 24.474 min Scan# 3564

Delta R.T. -0.009 min

Lab File: BG057108.D

Acq: 14 Apr 2023 20:37

Instrument :

BNA_G

ClientSampleId :

NB-07-041323

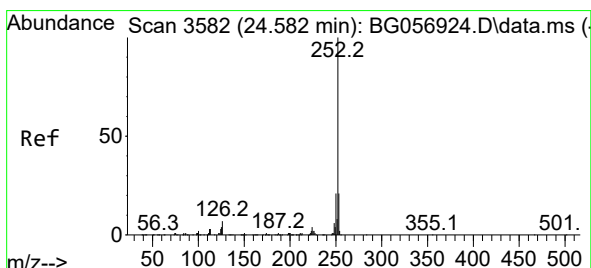
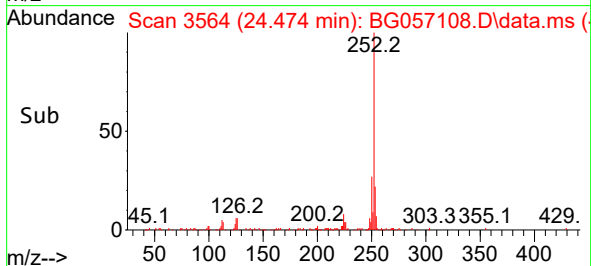
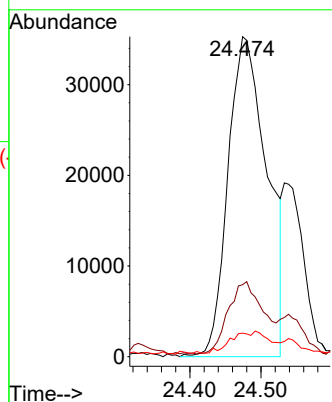
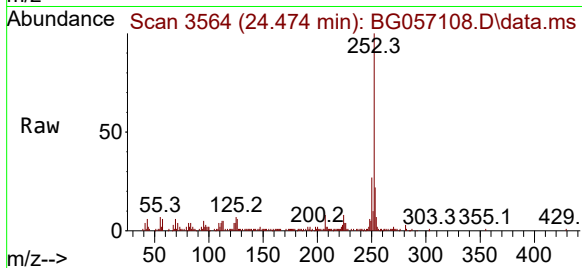
Tgt Ion:252 Resp: 134273

Ion Ratio Lower Upper

252 100

253 22.5 18.1 27.1

125 7.3 4.2 6.4#



#89

Benzo(k)fluoranthene

Concen: 23.725 ng

RT: 24.474 min Scan# 3564

Delta R.T. -0.086 min

Lab File: BG057108.D

Acq: 14 Apr 2023 20:37

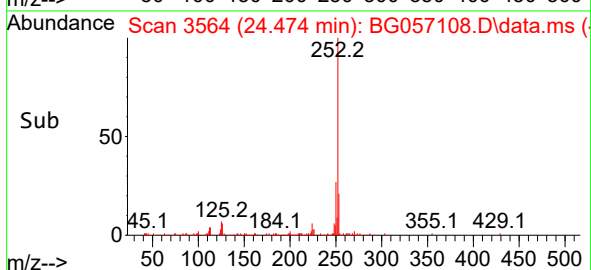
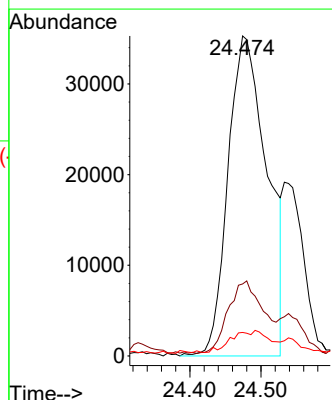
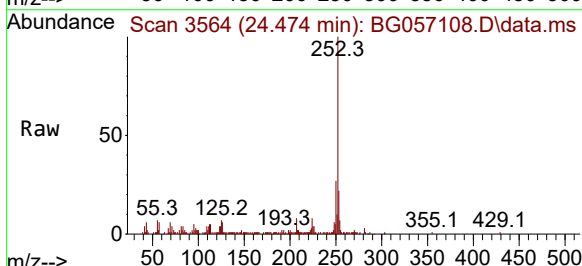
Tgt Ion:252 Resp: 134273

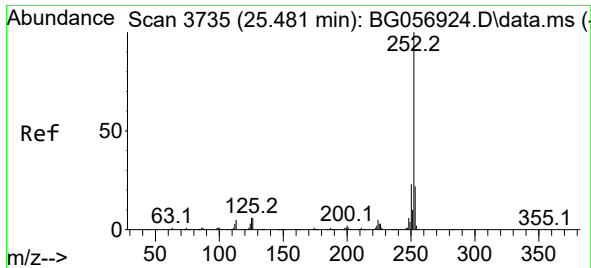
Ion Ratio Lower Upper

252 100

253 22.5 17.1 25.7

125 7.3 3.8 5.6#

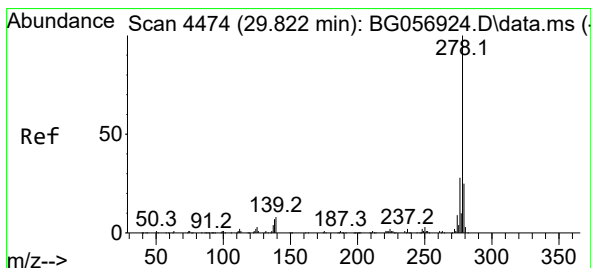
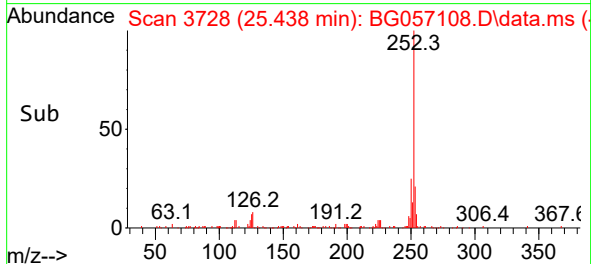
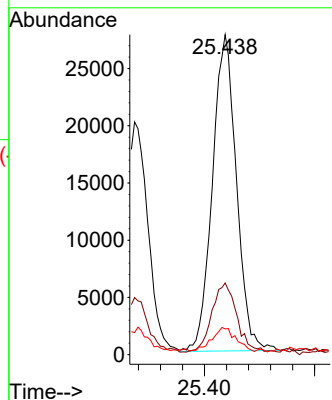
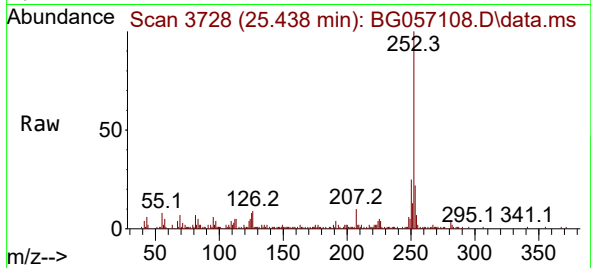




#90
Benzo(a)pyrene
Concen: 15.041 ng
RT: 25.438 min Scan# 31
Delta R.T. -0.015 min
Lab File: BG057108.D
Acq: 14 Apr 2023 20:37

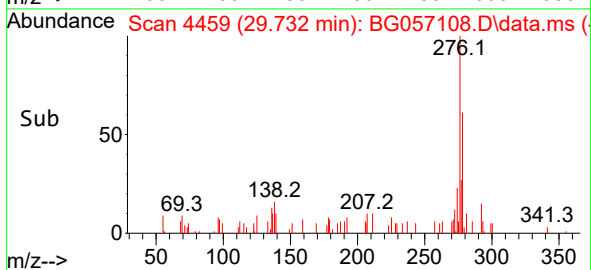
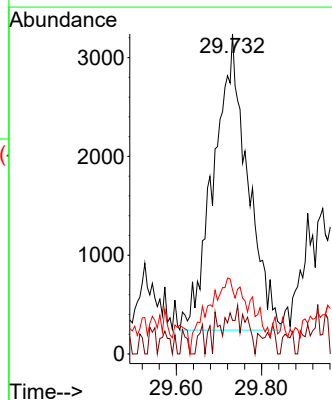
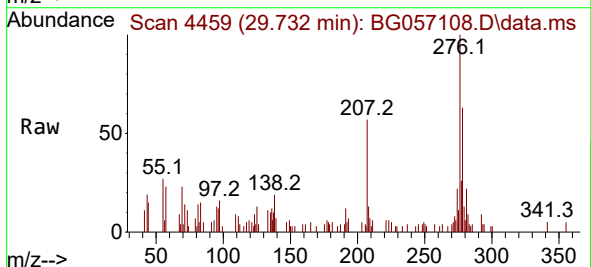
Instrument :
BNA_G
ClientSampleId :
NB-07-041323

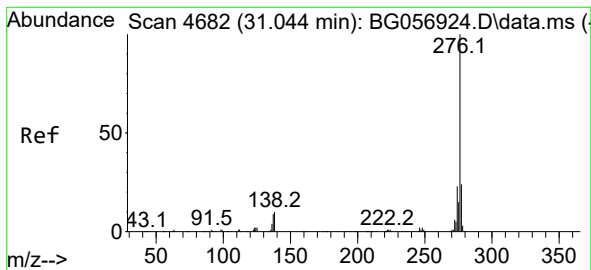
Tgt Ion:252 Resp: 83791
Ion Ratio Lower Upper
252 100
253 22.4 17.6 26.4
125 8.1 4.5 6.7#



#91
Dibenzo(a,h)anthracene
Concen: 2.997 ng
RT: 29.732 min Scan# 4459
Delta R.T. -0.033 min
Lab File: BG057108.D
Acq: 14 Apr 2023 20:37

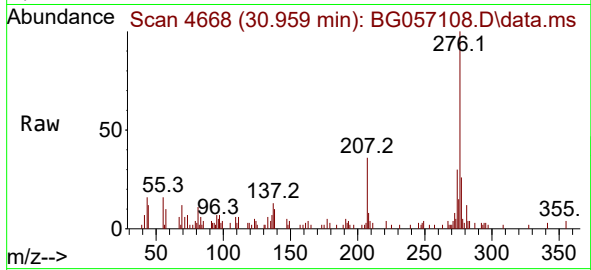
Tgt Ion:278 Resp: 16503
Ion Ratio Lower Upper
278 100
139 10.5 6.4 9.6#
279 20.0 20.2 30.2#





#92
 Benzo(g,h,i)perylene
 Concen: 9.755 ng
 RT: 30.959 min Scan# 4
 Delta R.T. -0.033 min
 Lab File: BG057108.D
 Acq: 14 Apr 2023 20:37

Instrument :
 BNA_G
 ClientSampleId :
 NB-07-041323



Tgt Ion:276 Resp: 52607
 Ion Ratio Lower Upper
 276 100
 277 26.1 19.1 28.7
 138 9.9 8.2 12.2

