

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040623\
 Data File : BG057014.D
 Acq On : 6 Apr 2023 16:12
 Operator : CG/JU
 Sample : 02191-02
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 72-11982

Quant Time: Apr 07 01:37:39 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG033023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 07 01:33:41 2023
 Response via : Initial Calibration

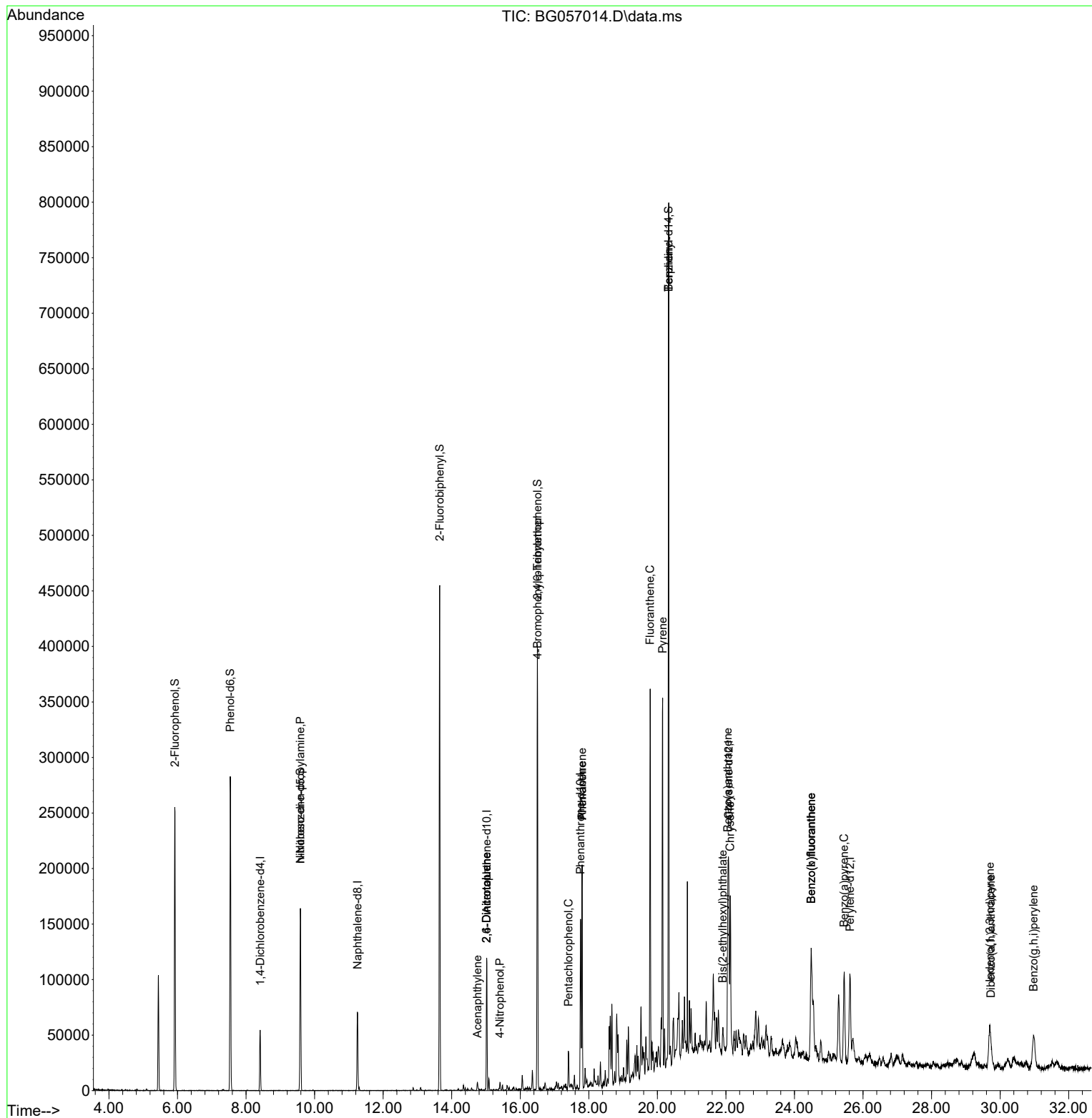
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.410	152	15281	20.000	ng	0.00
21) Naphthalene-d8	11.254	136	60260	20.000	ng	0.00
39) Acenaphthene-d10	15.019	164	44082	20.000	ng	0.00
64) Phenanthrene-d10	17.756	188	101908	20.000	ng	0.00
76) Chrysene-d12	22.080	240	85651	20.000	ng	0.00
86) Perylene-d12	25.622	264	92032	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.925	112	107087	112.157	ng	0.00
7) Phenol-d6	7.541	99	157127	110.032	ng	0.00
23) Nitrobenzene-d5	9.585	82	102132	69.349	ng	0.00
42) 2,4,6-Tribromophenol	16.499	330	79350	112.677	ng	0.00
45) 2-Fluorobiphenyl	13.650	172	237568	73.079	ng	0.00
79) Terphenyl-d14	20.329	244	370693	73.236	ng	0.00
Target Compounds						
19) n-Nitroso-di-n-propyla...	9.585	70	14677	14.369	ng	# 84
49) Acenaphthylene	14.749	152	8037	2.050	ng	# 87
51) 2,6-Dinitrotoluene	15.013	165	5777	7.698	ng	# 18
56) 4-Nitrophenol	15.407	139	1566	2.851	ng	# 1
57) 2,4-Dinitrotoluene	15.013	165	5777	5.458	ng	# 18
67) 4-Bromophenyl-phenylether	16.505	248	4949	3.925	ng	# 1
70) Pentachlorophenol	17.404	266	4657	5.207	ng	100
71) Phenanthrene	17.803	178	122266	23.532	ng	100
72) Anthracene	17.803	178	122266	22.955	ng	98
75) Fluoranthene	19.789	202	212523	32.267	ng	99
77) Benzidine	20.329	184	6148	2.626	ng	# 86
78) Pyrene	20.153	202	206472	34.853	ng	98
81) Benzo(a)anthracene	22.057	228	91998	15.522	ng	97
83) Chrysene	22.127	228	111089	20.018	ng	96
84) Bis(2-ethylhexyl)phtha...	21.910	149	5984	2.027	ng	# 88
87) Indeno(1,2,3-cd)pyrene	29.705	276	71562	10.521	ng	# 97
88) Benzo(b)fluoranthene	24.489	252	129949	22.580	ng	95
89) Benzo(k)fluoranthene	24.489	252	129949	22.618	ng	# 92
90) Benzo(a)pyrene	25.452	252	98297	17.382	ng	# 97
91) Dibenzo(a,h)anthracene	29.734	278	11479	2.053	ng	# 94
92) Benzo(g,h,i)perylene	30.980	276	70521	12.882	ng	# 97

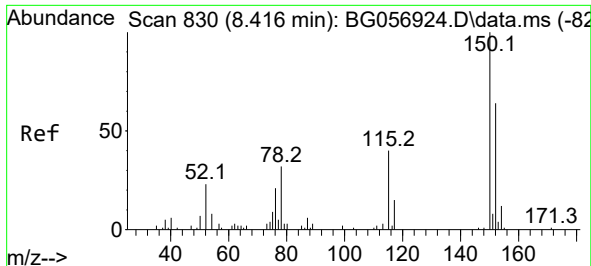
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Apr 07 01:37:39 2023
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 07 01:33:41 2023
Response via : Initial Calibration

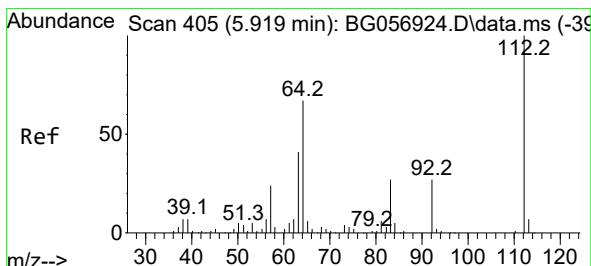
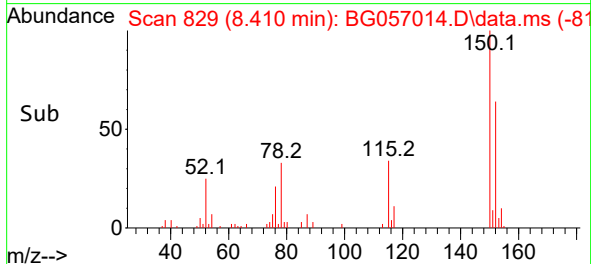
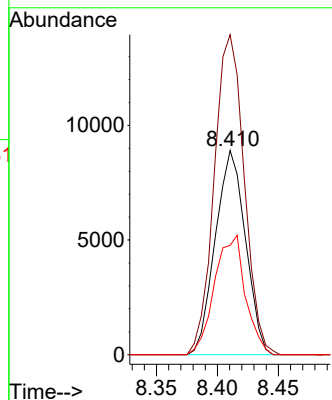
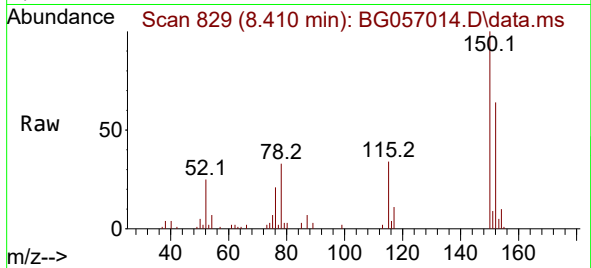




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.410 min Scan# 81
Delta R.T. -0.003 min
Lab File: BG057014.D
Acq: 6 Apr 2023 16:12

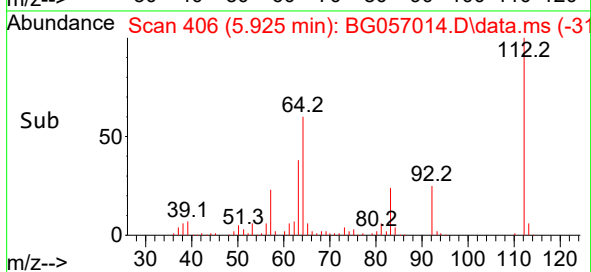
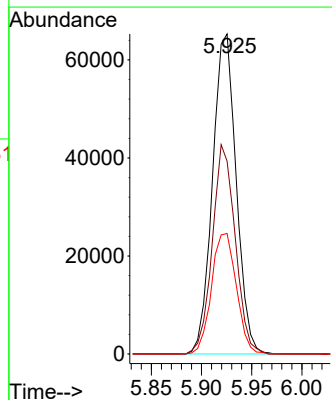
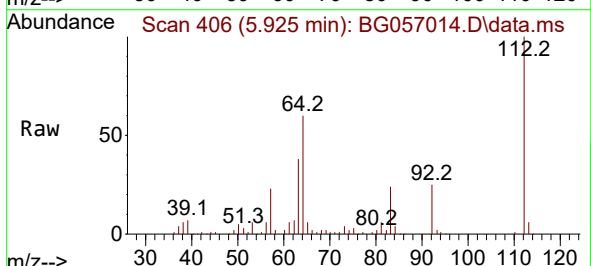
Instrument :
BNA_G
ClientSampleId :
72-11982

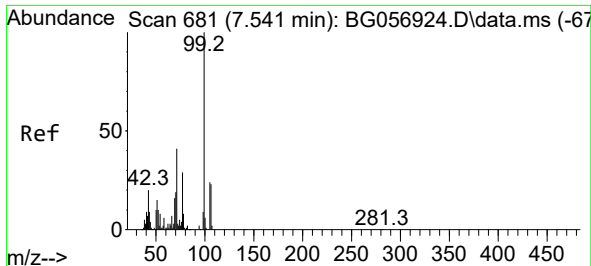
Tgt Ion:152 Resp: 15281
Ion Ratio Lower Upper
152 100
150 156.7 124.1 186.1
115 53.5 49.1 73.7



#5
2-Fluorophenol
Concen: 112.157 ng
RT: 5.925 min Scan# 406
Delta R.T. 0.009 min
Lab File: BG057014.D
Acq: 6 Apr 2023 16:12

Tgt Ion:112 Resp: 107087
Ion Ratio Lower Upper
112 100
64 60.3 53.2 79.8
63 37.6 32.6 48.8

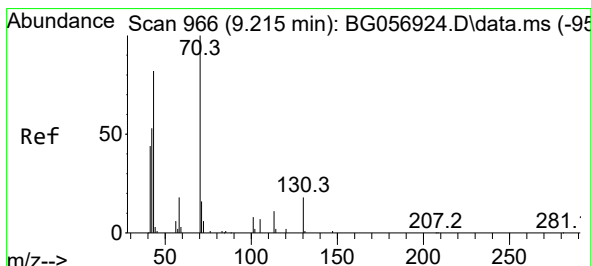
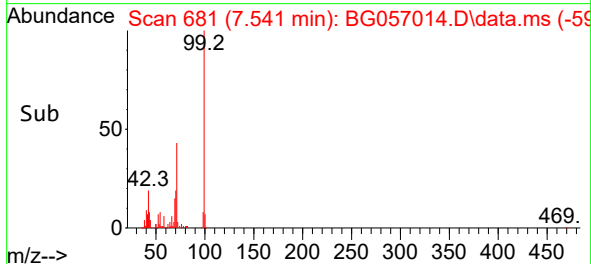
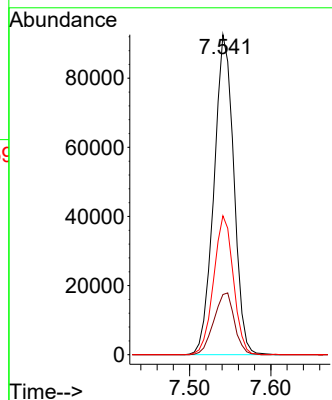
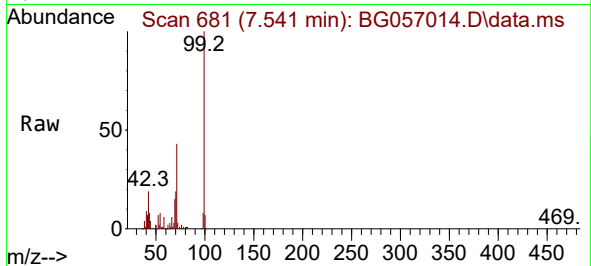




#7
Phenol-d6
Concen: 110.032 ng
RT: 7.541 min Scan# 61
Delta R.T. -0.003 min
Lab File: BG057014.D
Acq: 6 Apr 2023 16:12

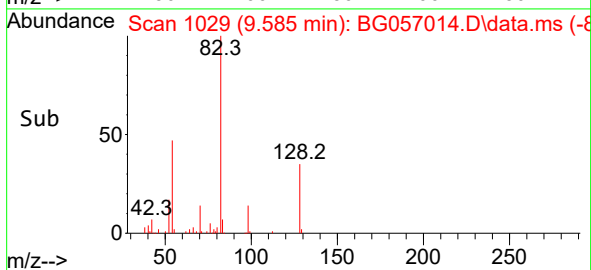
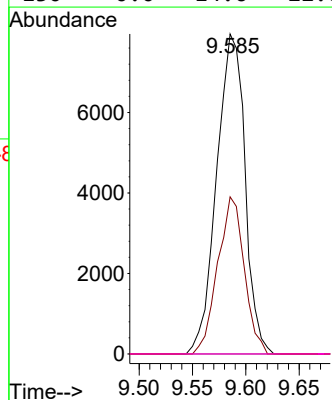
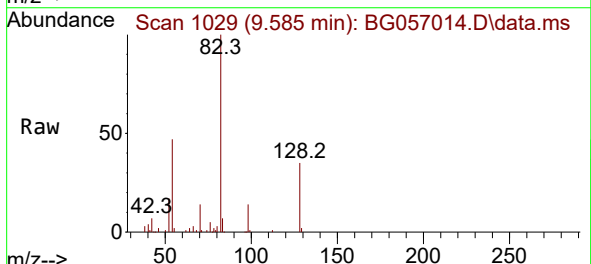
Instrument :
BNA_G
ClientSampleId :
72-11982

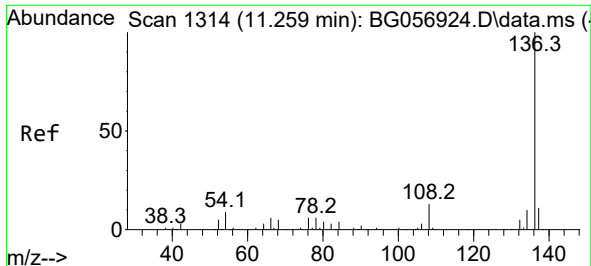
Tgt Ion: 99 Resp: 157127
Ion Ratio Lower Upper
99 100
42 18.8 15.7 23.5
71 43.4 32.5 48.7



#19
n-Nitroso-di-n-propylamine
Concen: 14.369 ng
RT: 9.585 min Scan# 1029
Delta R.T. 0.373 min
Lab File: BG057014.D
Acq: 6 Apr 2023 16:12

Tgt Ion: 70 Resp: 14677
Ion Ratio Lower Upper
70 100
42 49.1 43.4 65.0
101 0.0 6.2 9.2#
130 0.0 14.6 22.0#

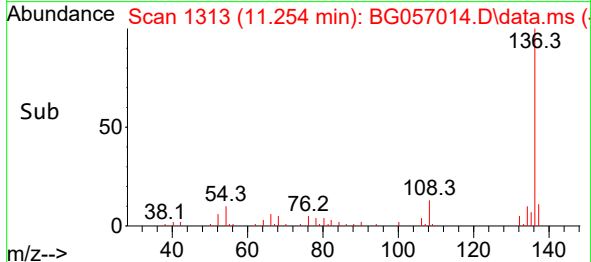
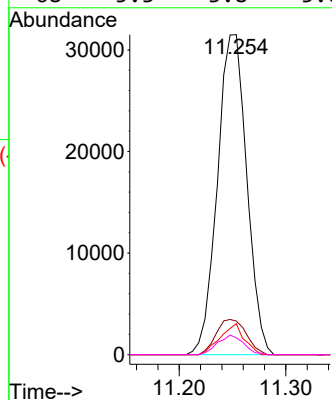
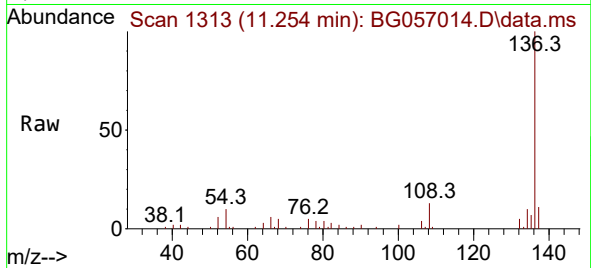




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.254 min Scan# 11
Delta R.T. 0.003 min
Lab File: BG057014.D
Acq: 6 Apr 2023 16:12

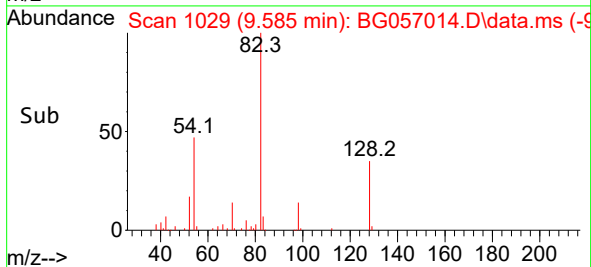
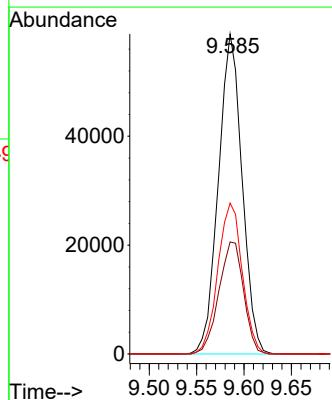
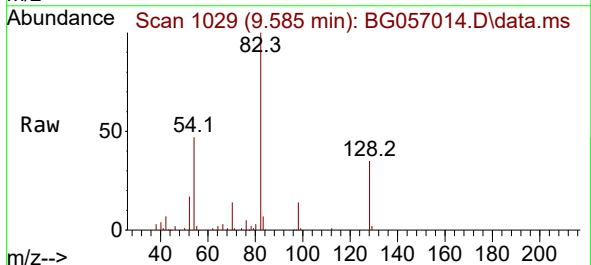
Instrument :
BNA_G
ClientSampleId :
72-11982

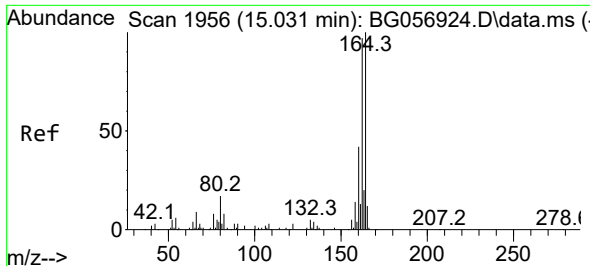
Tgt Ion:	136	Resp:	60260
Ion	Ratio	Lower	Upper
136	100		
137	10.5	8.6	13.0
54	9.7	6.9	10.3
68	5.3	3.8	5.6



#23
Nitrobenzene-d5
Concen: 69.349 ng
RT: 9.585 min Scan# 1029
Delta R.T. -0.009 min
Lab File: BG057014.D
Acq: 6 Apr 2023 16:12

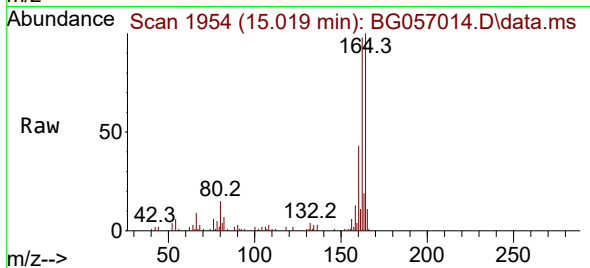
Tgt Ion:	82	Resp:	102132
Ion	Ratio	Lower	Upper
82	100		
128	35.0	27.9	41.9
54	47.2	39.4	59.2



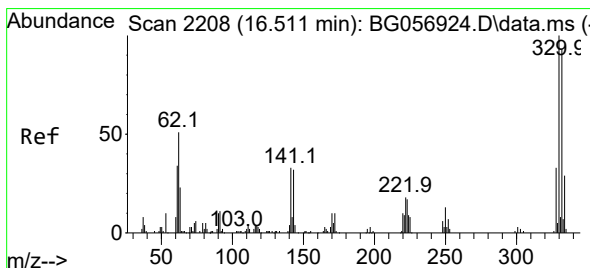
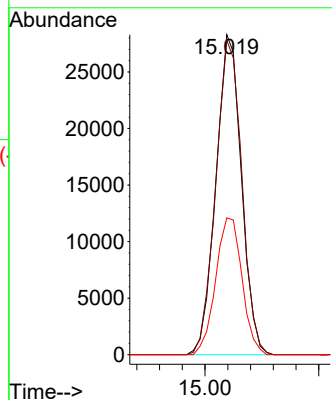
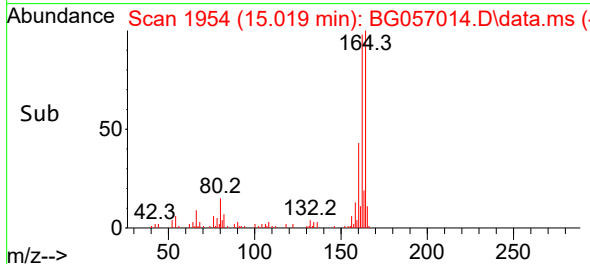


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 15.019 min Scan# 1954
Delta R.T. -0.009 min
Lab File: BG057014.D
Acq: 6 Apr 2023 16:12

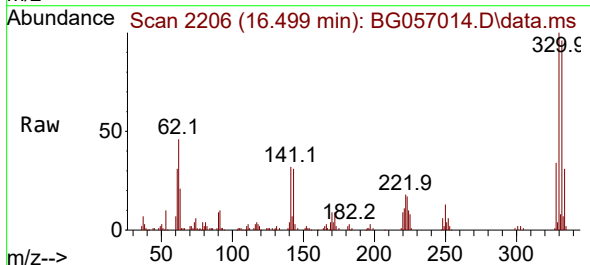
Instrument :
BNA_G
ClientSampleId :
72-11982



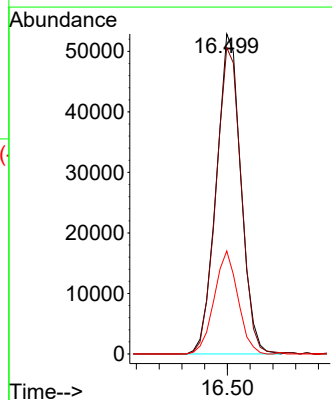
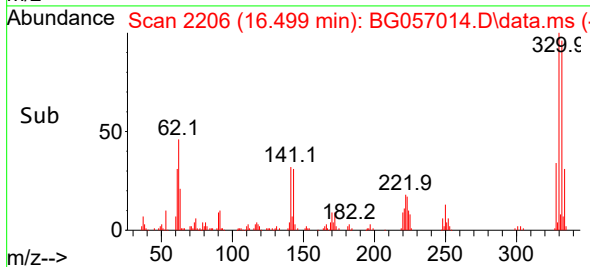
Tgt Ion:164 Resp: 44082
Ion Ratio Lower Upper
164 100
162 98.2 77.8 116.8
160 42.8 33.5 50.3

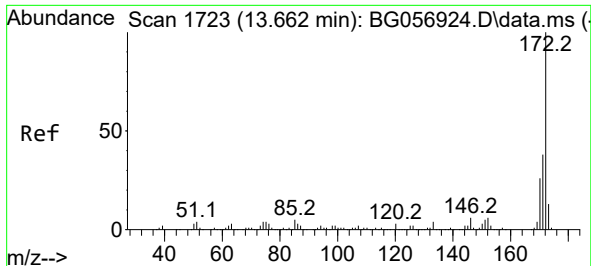


#42
2,4,6-Tribromophenol
Concen: 112.677 ng
RT: 16.499 min Scan# 2206
Delta R.T. -0.009 min
Lab File: BG057014.D
Acq: 6 Apr 2023 16:12



Tgt Ion:330 Resp: 79350
Ion Ratio Lower Upper
330 100
332 97.8 76.1 114.1
141 31.0 25.8 38.6

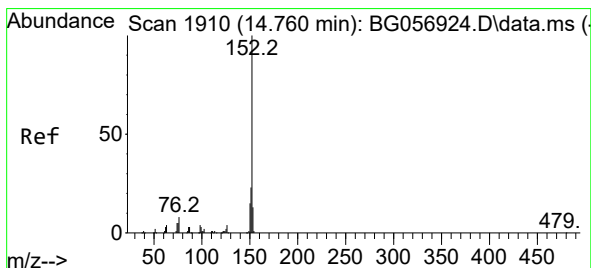
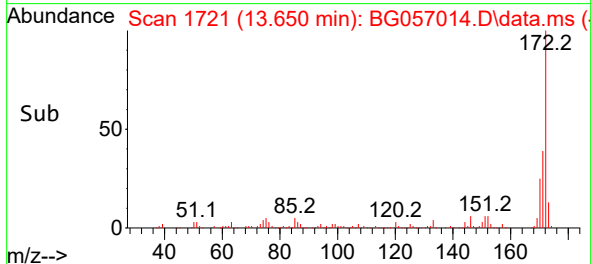
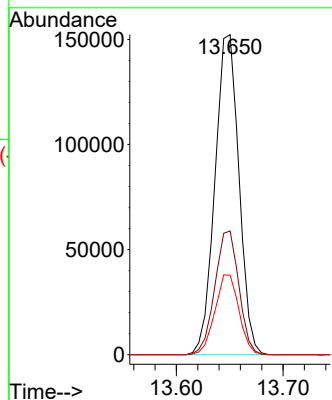
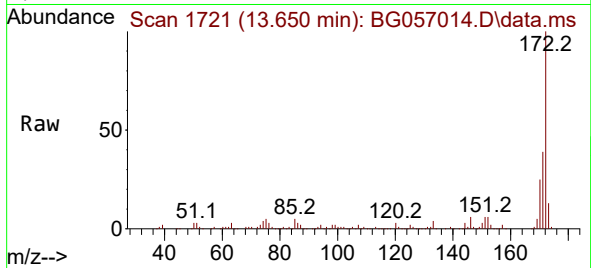




#45
2-Fluorobiphenyl
Concen: 73.079 ng
RT: 13.650 min Scan# 1721
Delta R.T. -0.003 min
Lab File: BG057014.D
Acq: 6 Apr 2023 16:12

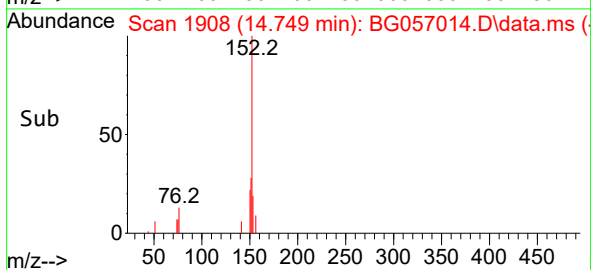
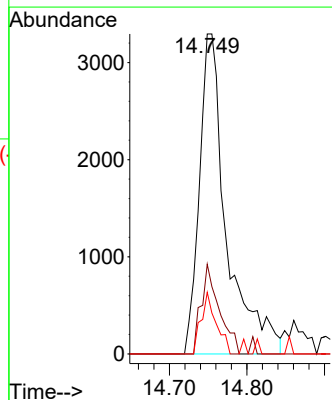
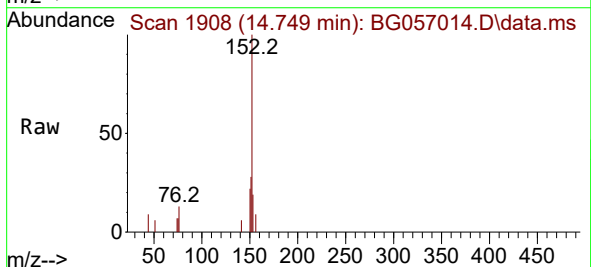
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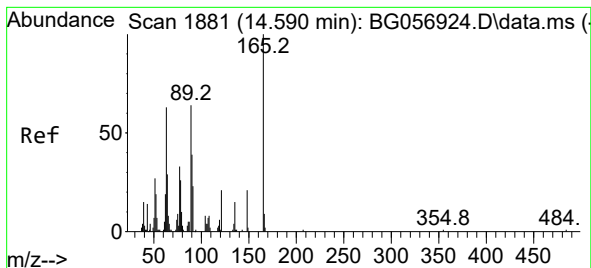
Tgt Ion:172 Resp: 237568
Ion Ratio Lower Upper
172 100
171 38.6 30.6 46.0
170 24.8 20.6 30.8



#49
Acenaphthylene
Concen: 2.050 ng
RT: 14.749 min Scan# 1908
Delta R.T. -0.003 min
Lab File: BG057014.D
Acq: 6 Apr 2023 16:12

Tgt Ion:152 Resp: 8037
Ion Ratio Lower Upper
152 100
151 28.1 18.2 27.2#
153 19.2 10.5 15.7#





#51

2,6-Dinitrotoluene

Concen: 7.698 ng

RT: 15.013 min Scan# 1953

Delta R.T. 0.426 min

Lab File: BG057014.D

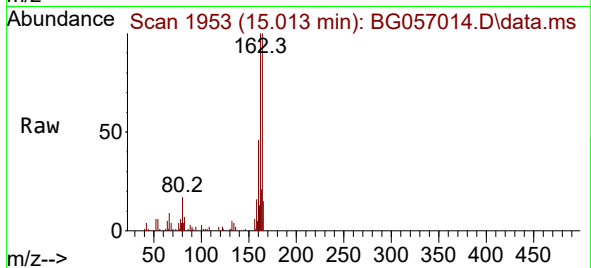
Acq: 6 Apr 2023 16:12

Instrument :

BNA_G

ClientSampleId :

72-11982



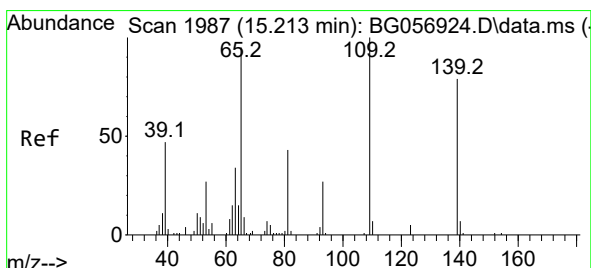
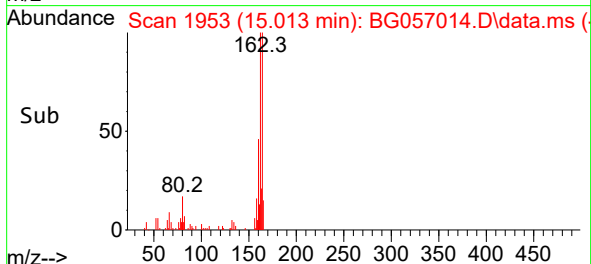
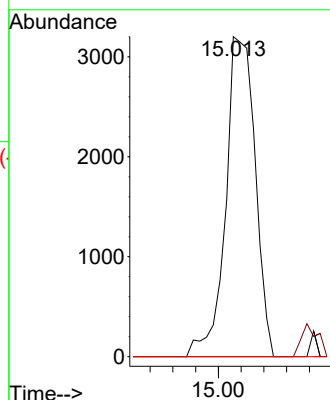
Tgt Ion:165 Resp: 5777

Ion Ratio Lower Upper

165 100

63 0.0 53.0 79.6#

89 0.0 51.0 76.4#



#56

4-Nitrophenol

Concen: 2.851 ng

RT: 15.407 min Scan# 2020

Delta R.T. 0.197 min

Lab File: BG057014.D

Acq: 6 Apr 2023 16:12

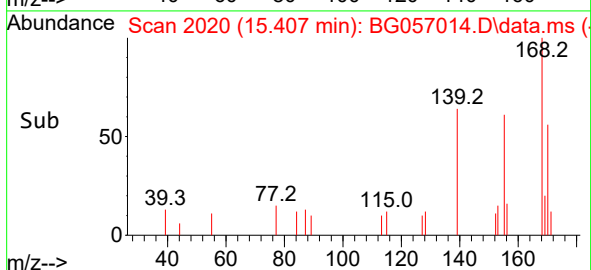
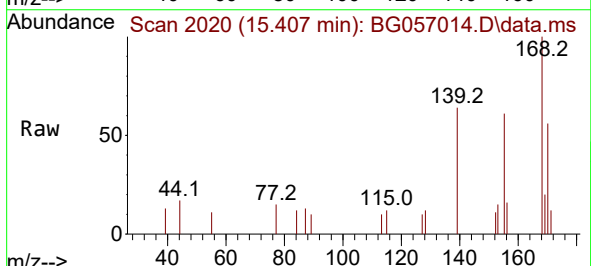
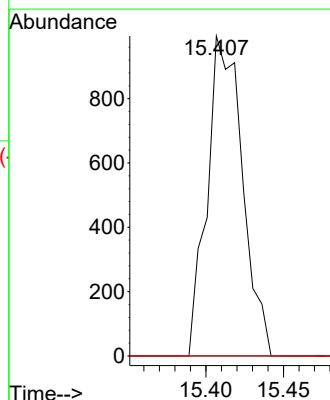
Tgt Ion:139 Resp: 1566

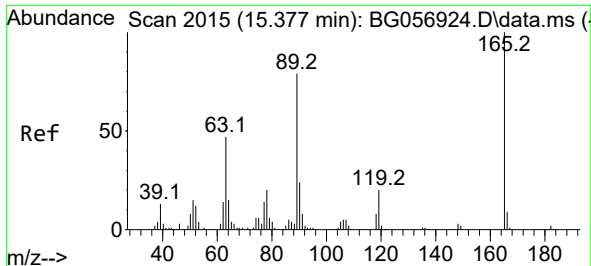
Ion Ratio Lower Upper

139 100

109 0.0 106.7 146.7#

65 0.0 100.5 140.5#





#57

2,4-Dinitrotoluene

Concen: 5.458 ng

RT: 15.013 min Scan# 1953

Delta R.T. -0.361 min

Lab File: BG057014.D

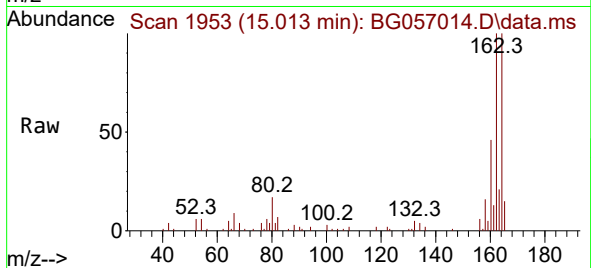
Acq: 6 Apr 2023 16:12

Instrument :

BNA_G

ClientSampleId :

72-11982



Tgt Ion:165 Resp: 5777

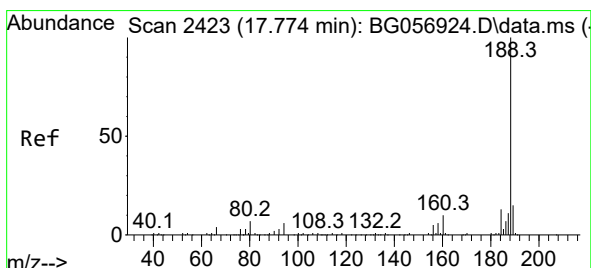
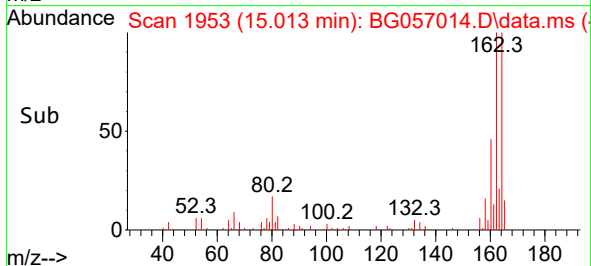
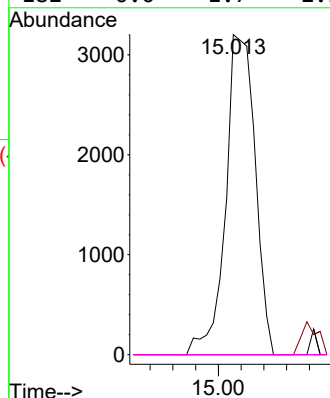
Ion Ratio Lower Upper

165 100

63 0.0 37.7 56.5#

89 0.0 63.2 94.8#

182 0.0 1.7 2.5#



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.756 min Scan# 2420

Delta R.T. -0.009 min

Lab File: BG057014.D

Acq: 6 Apr 2023 16:12

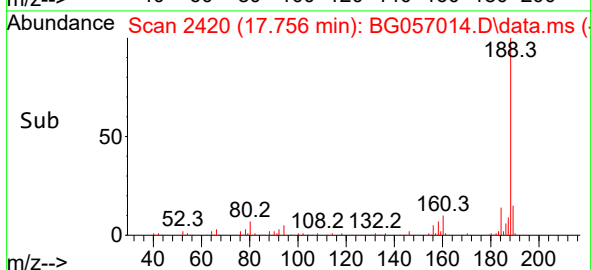
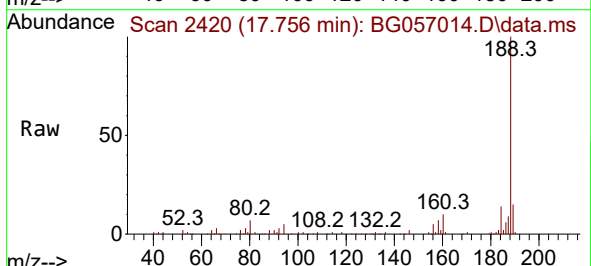
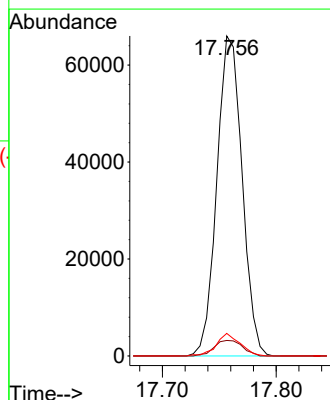
Tgt Ion:188 Resp: 101908

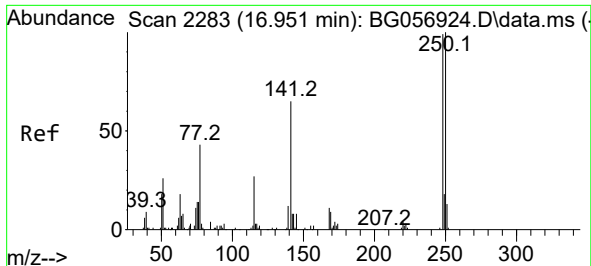
Ion Ratio Lower Upper

188 100

94 4.8 4.6 6.8

80 7.0 5.5 8.3

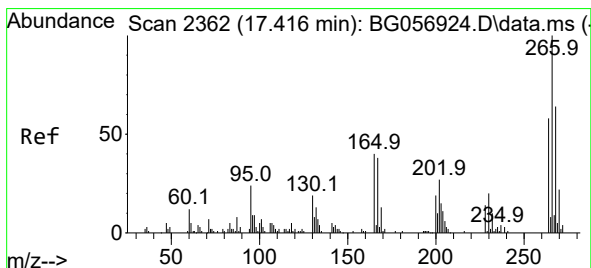
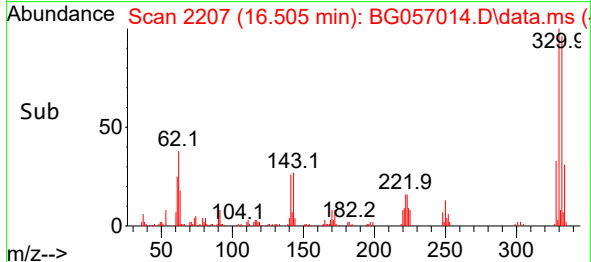
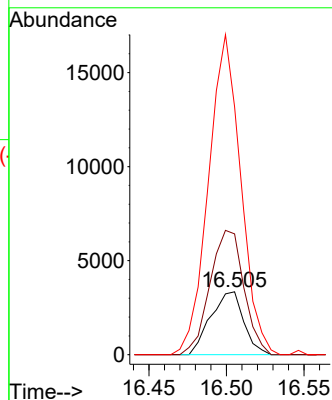
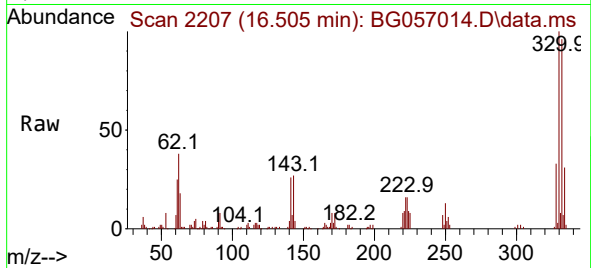




#67
4-Bromophenyl-phenylether
Concen: 3.925 ng
RT: 16.505 min Scan# 21
Delta R.T. -0.432 min
Lab File: BG057014.D
Acq: 6 Apr 2023 16:12

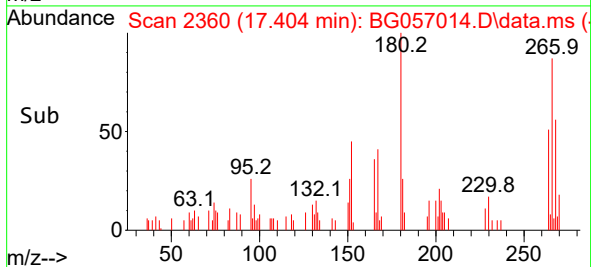
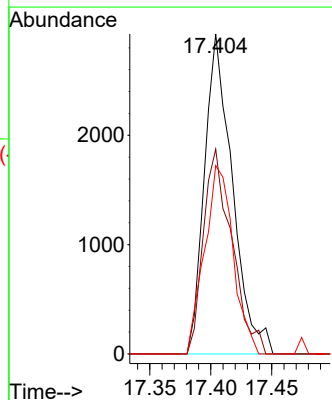
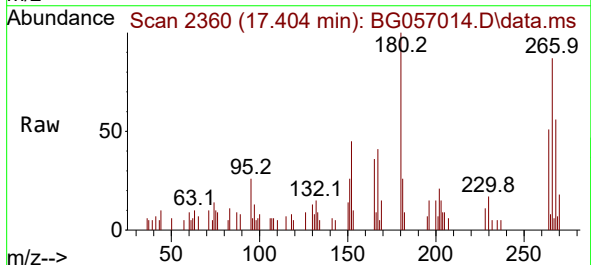
Instrument :
BNA_G
ClientSampleId :
72-11982

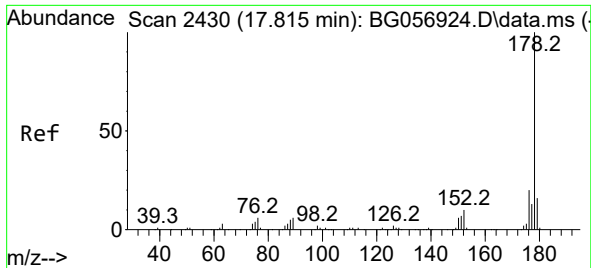
Tgt Ion:248 Resp: 4949
Ion Ratio Lower Upper
248 100
250 192.1 80.5 120.7#
141 394.2 52.0 78.0#



#70
Pentachlorophenol
Concen: 5.207 ng
RT: 17.404 min Scan# 2360
Delta R.T. -0.003 min
Lab File: BG057014.D
Acq: 6 Apr 2023 16:12

Tgt Ion:266 Resp: 4657
Ion Ratio Lower Upper
266 100
268 64.0 51.0 76.6
264 58.9 46.8 70.2

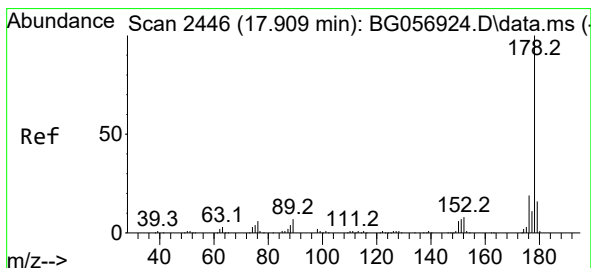
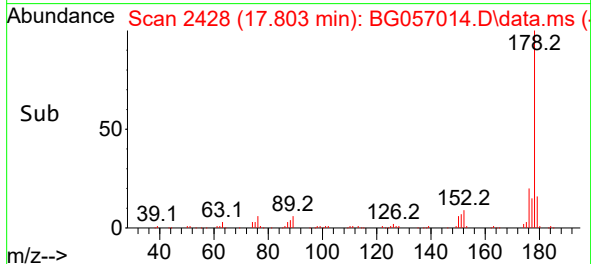
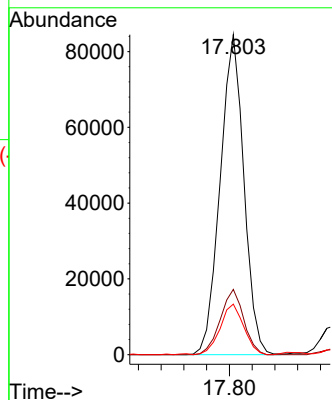
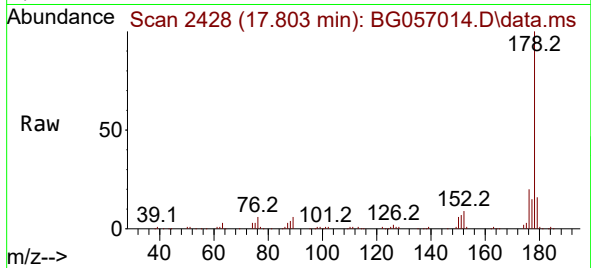




#71
Phenanthrene
Concen: 23.532 ng
RT: 17.803 min Scan# 2428
Delta R.T. -0.003 min
Lab File: BG057014.D
Acq: 6 Apr 2023 16:12

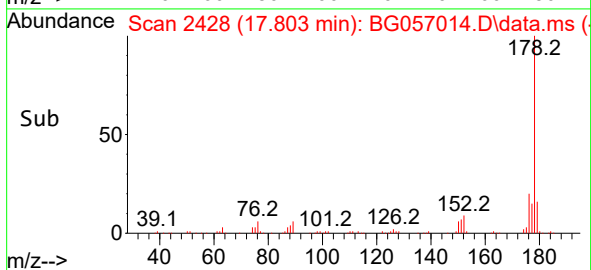
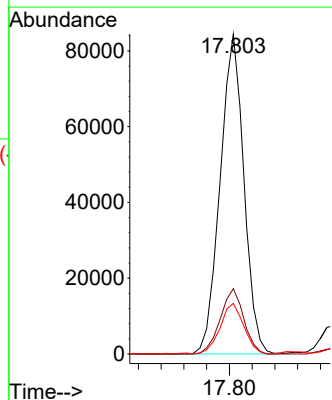
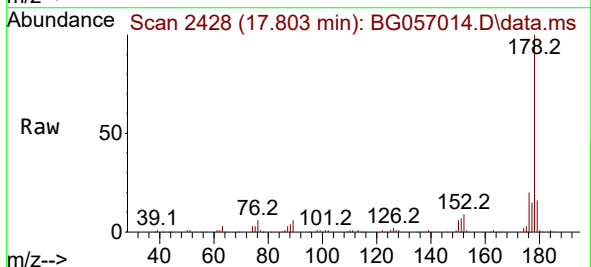
Instrument :
BNA_G
ClientSampleId :
72-11982

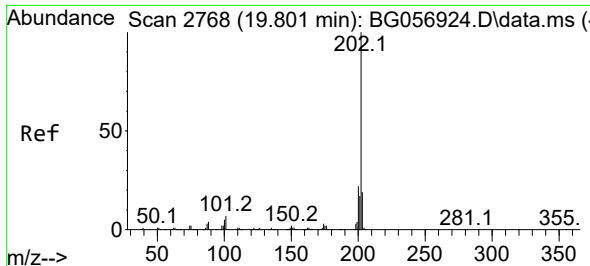
Tgt Ion:178 Resp: 122266
Ion Ratio Lower Upper
178 100
176 20.4 16.2 24.2
179 15.8 12.5 18.7



#72
Anthracene
Concen: 22.955 ng
RT: 17.803 min Scan# 2428
Delta R.T. -0.097 min
Lab File: BG057014.D
Acq: 6 Apr 2023 16:12

Tgt Ion:178 Resp: 122266
Ion Ratio Lower Upper
178 100
176 20.4 15.4 23.2
179 15.8 12.4 18.6

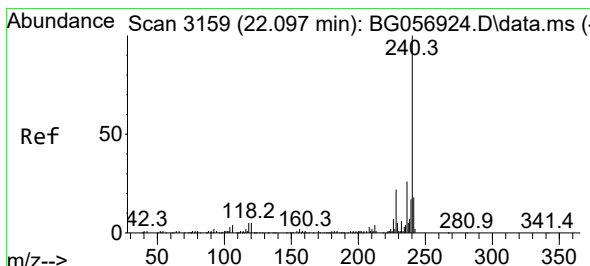
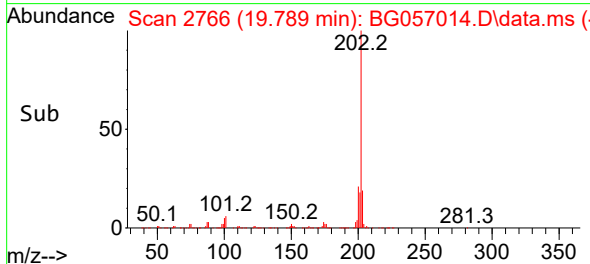
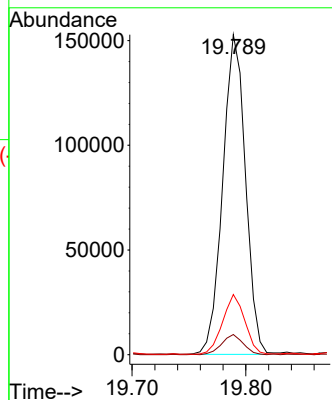
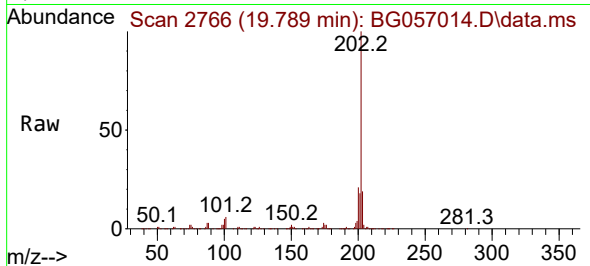




#75
Fluoranthene
Concen: 32.267 ng
RT: 19.789 min Scan# 21
Delta R.T. -0.003 min
Lab File: BG057014.D
Acq: 6 Apr 2023 16:12

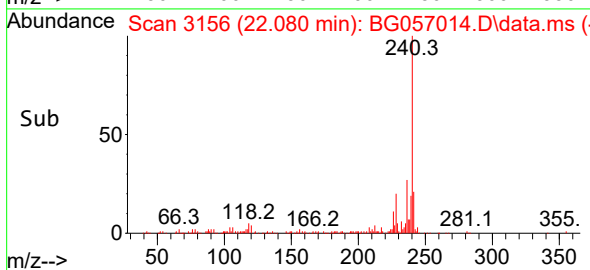
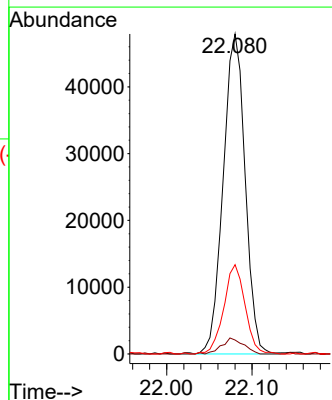
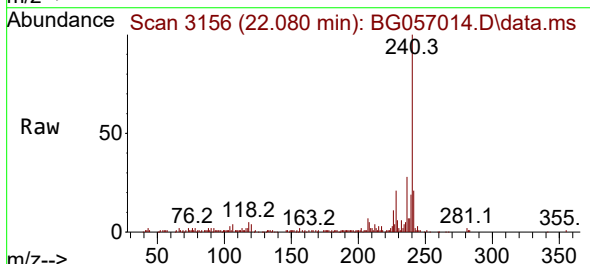
Instrument :
BNA_G
ClientSampleId :
72-11982

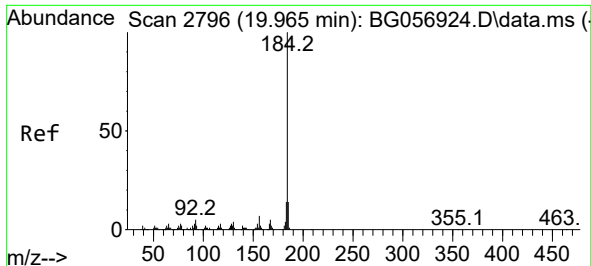
Tgt Ion:202 Resp: 212523
Ion Ratio Lower Upper
202 100
101 6.3 0.0 26.7
203 18.8 0.0 39.0



#76
Chrysene-d12
Concen: 20.000 ng
RT: 22.080 min Scan# 3156
Delta R.T. -0.009 min
Lab File: BG057014.D
Acq: 6 Apr 2023 16:12

Tgt Ion:240 Resp: 85651
Ion Ratio Lower Upper
240 100
120 4.3 3.8 5.6
236 27.9 21.0 31.6

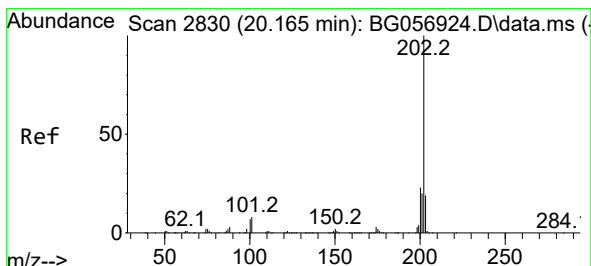
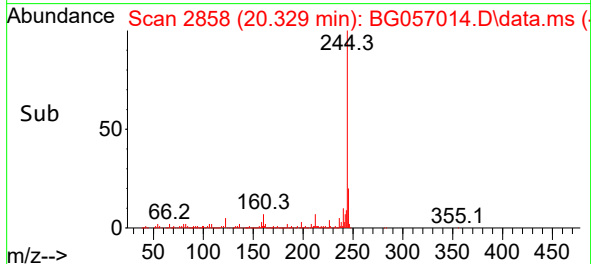
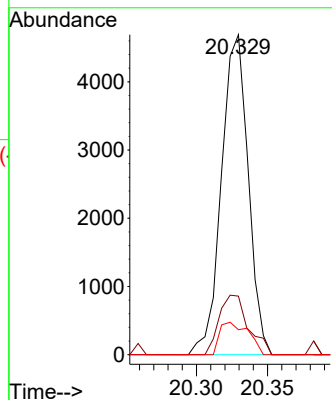
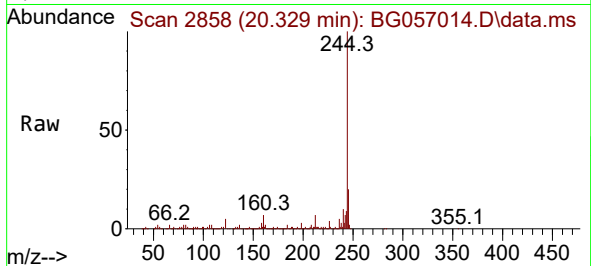




#77
Benzidine
Concen: 2.626 ng
RT: 20.329 min Scan# 21
Delta R.T. 0.373 min
Lab File: BG057014.D
Acq: 6 Apr 2023 16:12

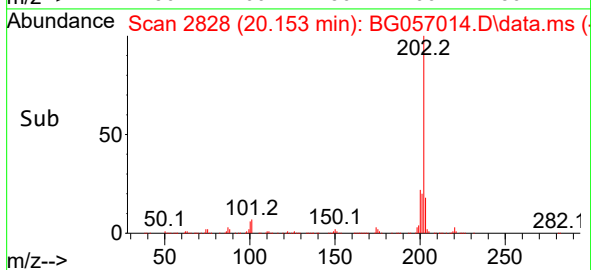
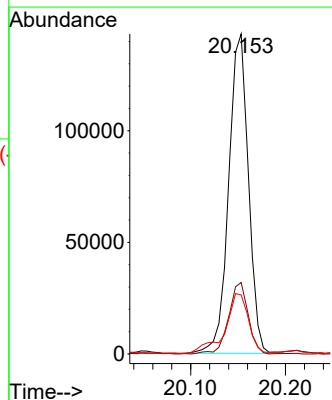
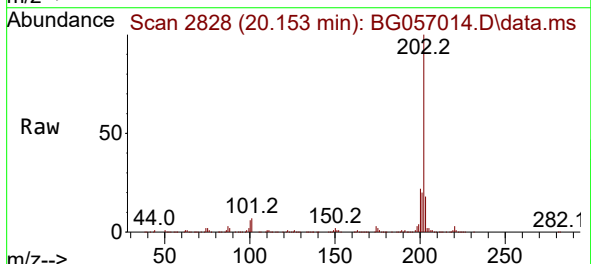
Instrument :
BNA_G
ClientSampleId :
72-11982

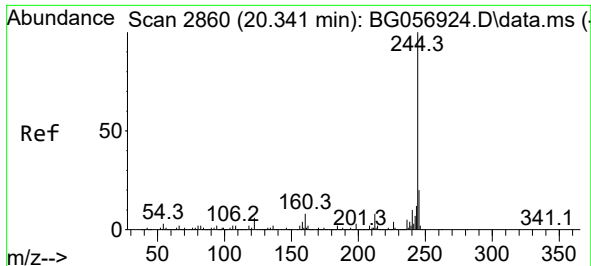
Tgt Ion:184 Resp: 6148
Ion Ratio Lower Upper
184 100
185 18.3 11.0 16.4#
183 7.8 11.4 17.0#



#78
Pyrene
Concen: 34.853 ng
RT: 20.153 min Scan# 2828
Delta R.T. 0.003 min
Lab File: BG057014.D
Acq: 6 Apr 2023 16:12

Tgt Ion:202 Resp: 206472
Ion Ratio Lower Upper
202 100
200 22.3 18.7 28.1
203 18.5 15.4 23.2

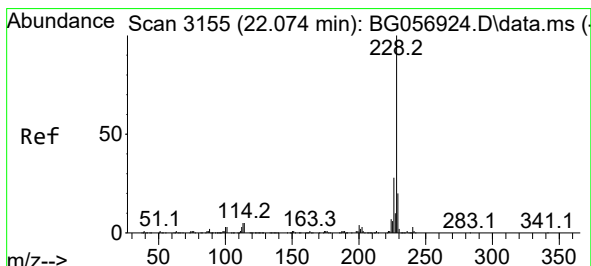
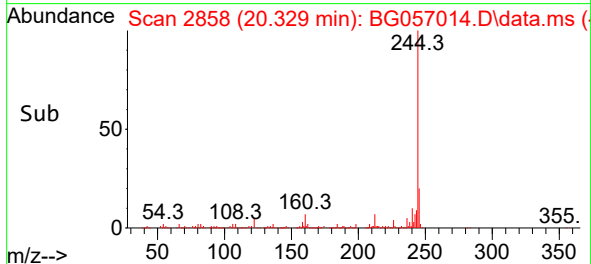
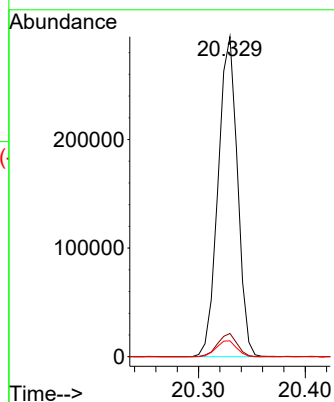
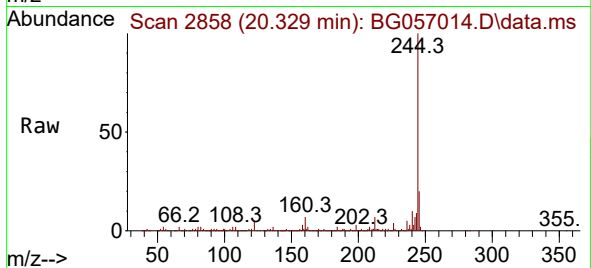




#79
 Terphenyl-d14
 Concen: 73.236 ng
 RT: 20.329 min Scan# 21
 Delta R.T. -0.003 min
 Lab File: BG057014.D
 Acq: 6 Apr 2023 16:12

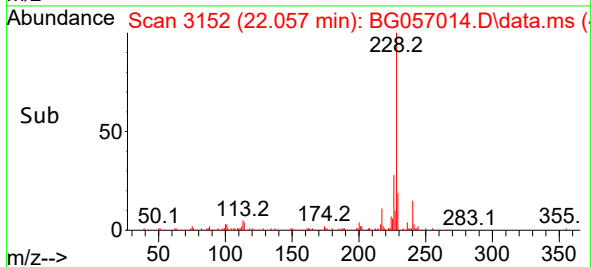
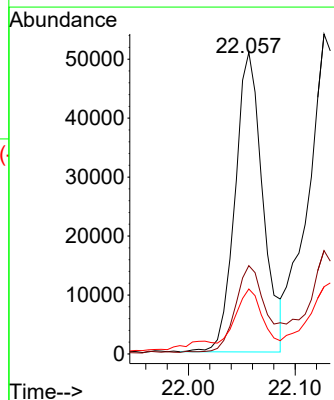
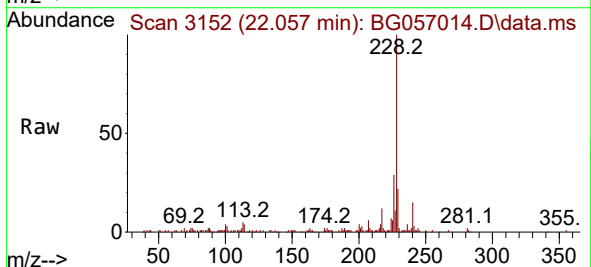
Instrument :
 BNA_G
 ClientSampleId :
 72-11982

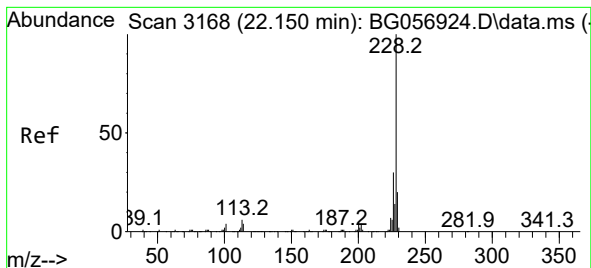
Tgt Ion:244 Resp: 370693
 Ion Ratio Lower Upper
 244 100
 212 7.3 6.1 9.1
 122 5.0 5.0 7.4#



#81
 Benzo(a)anthracene
 Concen: 15.522 ng
 RT: 22.057 min Scan# 3152
 Delta R.T. -0.009 min
 Lab File: BG057014.D
 Acq: 6 Apr 2023 16:12

Tgt Ion:228 Resp: 91998
 Ion Ratio Lower Upper
 228 100
 226 29.3 22.1 33.1
 229 21.5 16.1 24.1





#83

Chrysene

Concen: 20.018 ng

RT: 22.127 min Scan# 3164

Delta R.T. -0.009 min

Lab File: BG057014.D

Acq: 6 Apr 2023 16:12

Instrument :

BNA_G

ClientSampleId :

72-11982

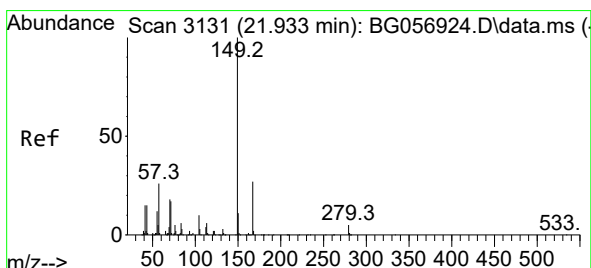
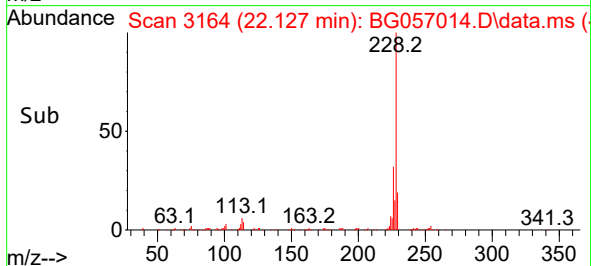
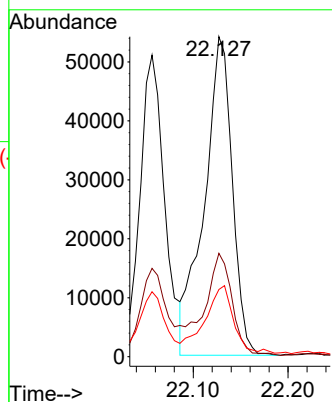
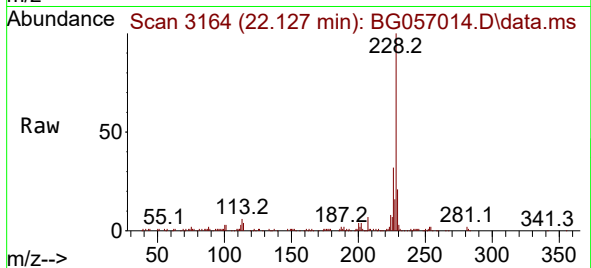
Tgt Ion:228 Resp: 111089

Ion Ratio Lower Upper

228 100

226 32.3 24.1 36.1

229 21.0 15.6 23.4



#84

Bis(2-ethylhexyl)phthalate

Concen: 2.027 ng

RT: 21.910 min Scan# 3127

Delta R.T. -0.003 min

Lab File: BG057014.D

Acq: 6 Apr 2023 16:12

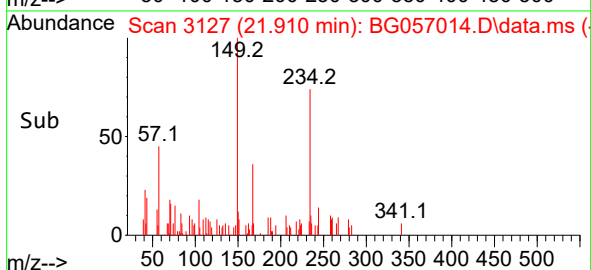
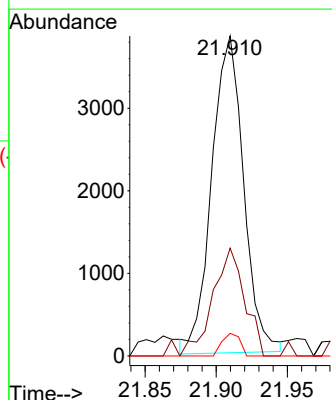
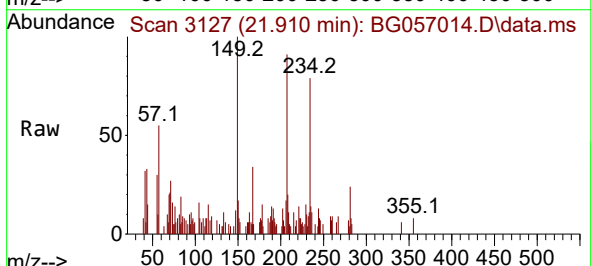
Tgt Ion:149 Resp: 5984

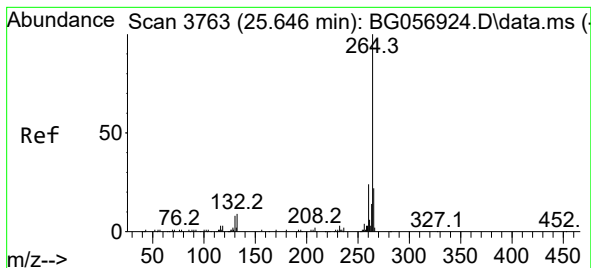
Ion Ratio Lower Upper

149 100

167 33.7 21.4 32.2#

279 7.1 3.9 5.9#





#86

Perylene-d12

Concen: 20.000 ng

RT: 25.622 min Scan# 31

Delta R.T. -0.003 min

Lab File: BG057014.D

Acq: 6 Apr 2023 16:12

Instrument :

BNA_G

ClientSampleId :

72-11982

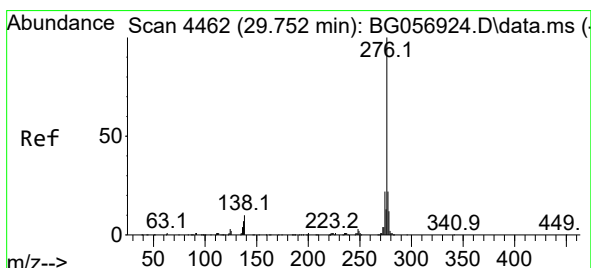
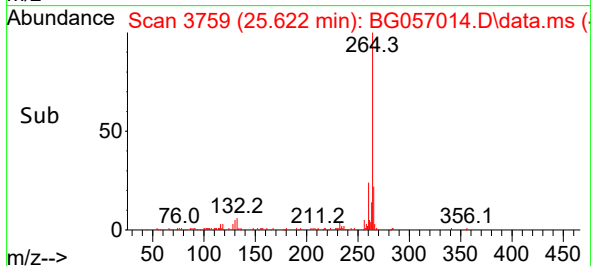
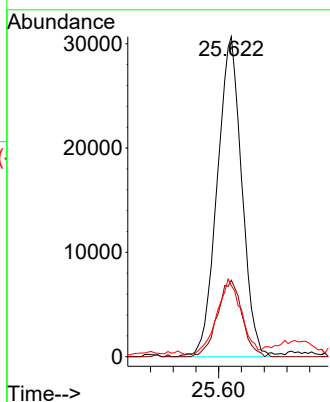
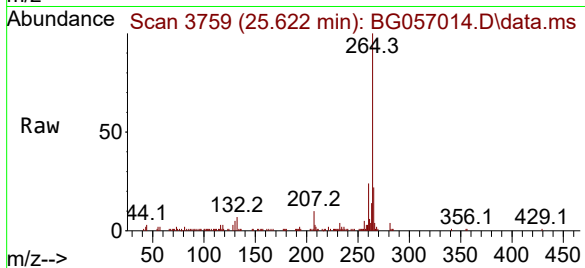
Tgt Ion:264 Resp: 92032

Ion Ratio Lower Upper

264 100

260 23.9 19.0 28.4

265 22.2 17.8 26.6



#87

Indeno(1,2,3-cd)pyrene

Concen: 10.521 ng

RT: 29.705 min Scan# 4454

Delta R.T. -0.020 min

Lab File: BG057014.D

Acq: 6 Apr 2023 16:12

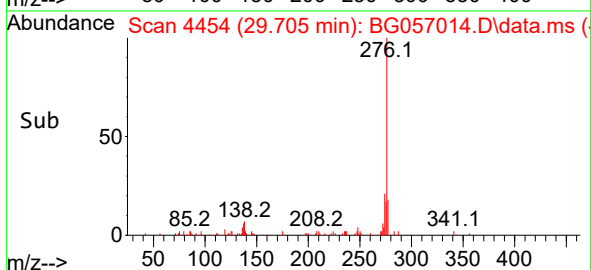
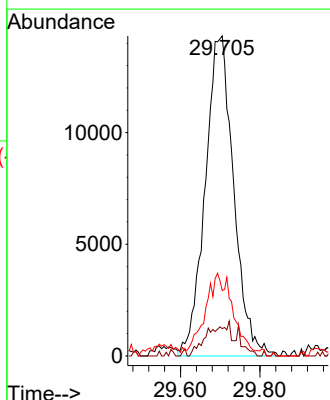
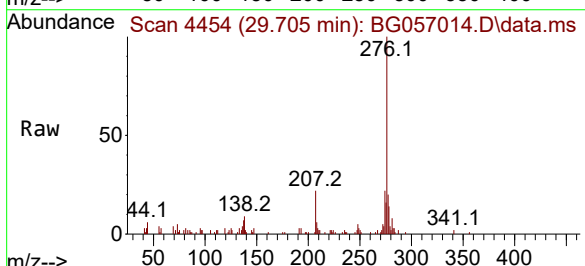
Tgt Ion:276 Resp: 71562

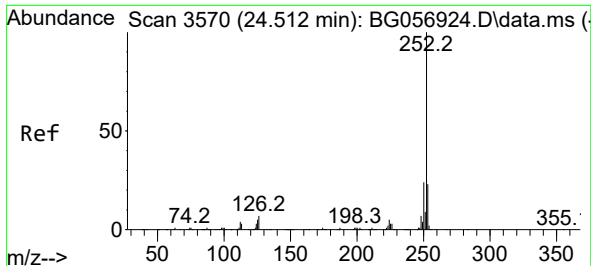
Ion Ratio Lower Upper

276 100

138 5.9 7.7 11.5#

277 26.0 21.0 31.4

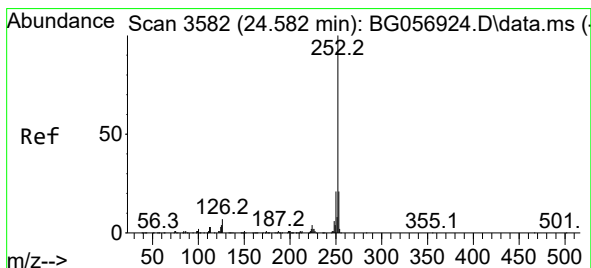
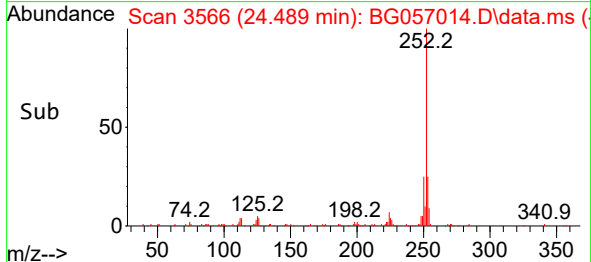
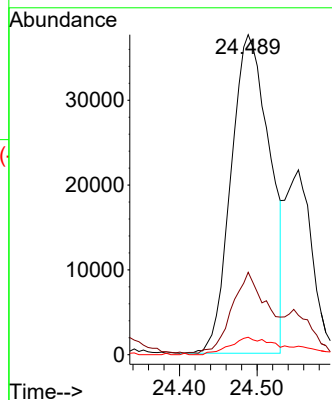
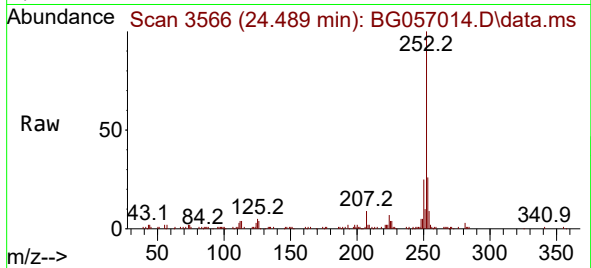




#88
Benzo(b)fluoranthene
Concen: 22.580 ng
RT: 24.489 min Scan# 3566
Delta R.T. -0.003 min
Lab File: BG057014.D
Acq: 6 Apr 2023 16:12

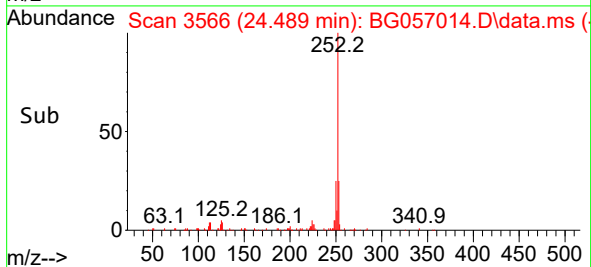
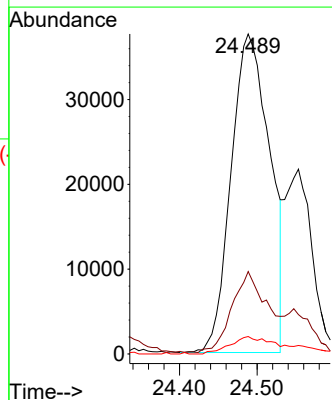
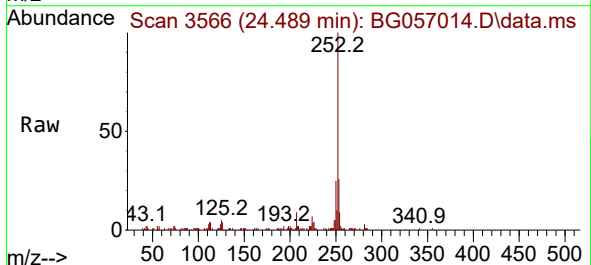
Instrument :
BNA_G
ClientSampleId :
72-11982

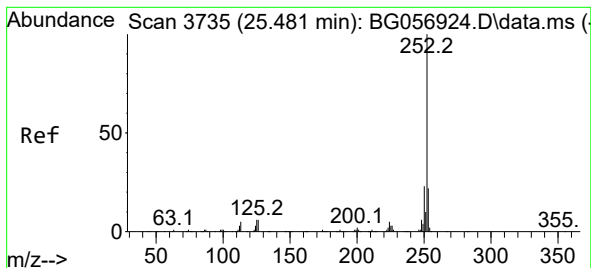
Tgt Ion:252 Resp: 129949
Ion Ratio Lower Upper
252 100
253 25.7 18.1 27.1
125 5.5 4.2 6.4



#89
Benzo(k)fluoranthene
Concen: 22.618 ng
RT: 24.489 min Scan# 3566
Delta R.T. -0.079 min
Lab File: BG057014.D
Acq: 6 Apr 2023 16:12

Tgt Ion:252 Resp: 129949
Ion Ratio Lower Upper
252 100
253 25.7 17.1 25.7#
125 5.5 3.8 5.6





#90

Benzo(a)pyrene

Concen: 17.382 ng

RT: 25.452 min Scan# 31

Delta R.T. -0.009 min

Lab File: BG057014.D

Acq: 6 Apr 2023 16:12

Instrument :

BNA_G

ClientSampleId :

72-11982

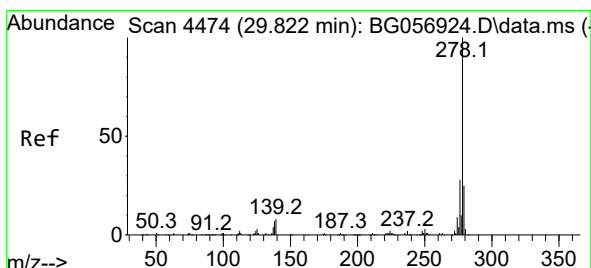
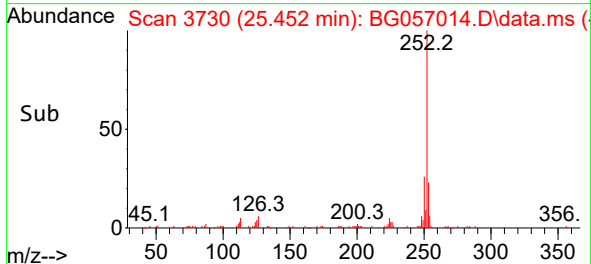
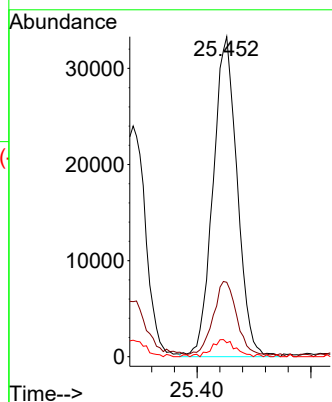
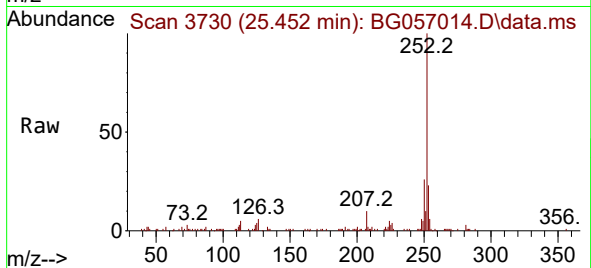
Tgt Ion:252 Resp: 98297

Ion Ratio Lower Upper

252 100

253 23.3 17.6 26.4

125 4.3 4.5 6.7#



#91

Dibenzo(a,h)anthracene

Concen: 2.053 ng

RT: 29.734 min Scan# 4459

Delta R.T. -0.056 min

Lab File: BG057014.D

Acq: 6 Apr 2023 16:12

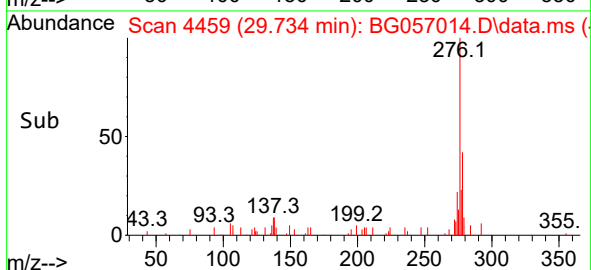
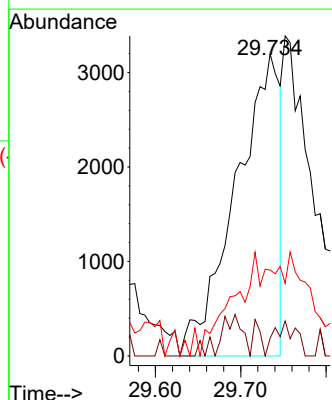
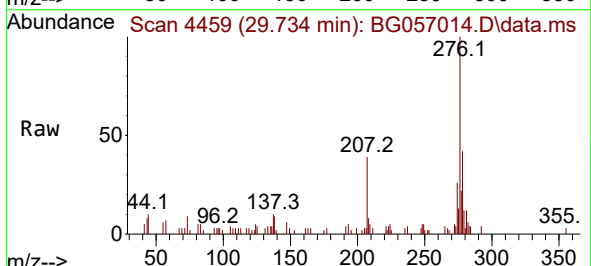
Tgt Ion:278 Resp: 11479

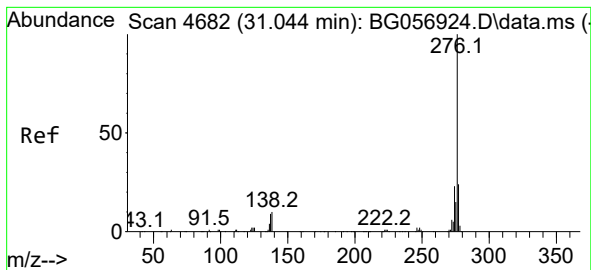
Ion Ratio Lower Upper

278 100

139 5.8 6.4 9.6#

279 28.4 20.2 30.2





#92

Benzo(g,h,i)perylene

Concen: 12.882 ng

RT: 30.980 min Scan# 4

Delta R.T. -0.032 min

Lab File: BG057014.D

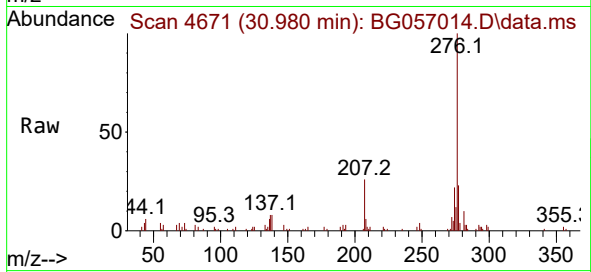
Acq: 6 Apr 2023 16:12

Instrument :

BNA_G

ClientSampleId :

72-11982



Tgt Ion:276 Resp: 70521

Ion Ratio Lower Upper

276 100

277 23.1 19.1 28.7

138 7.9 8.2 12.2#

