

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG041423\
 Data File : BG057109.D
 Acq On : 14 Apr 2023 21:20
 Operator : CG/JU
 Sample : 02348-01 5X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 TR-05-041323

Quant Time: Apr 15 02:50:02 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)

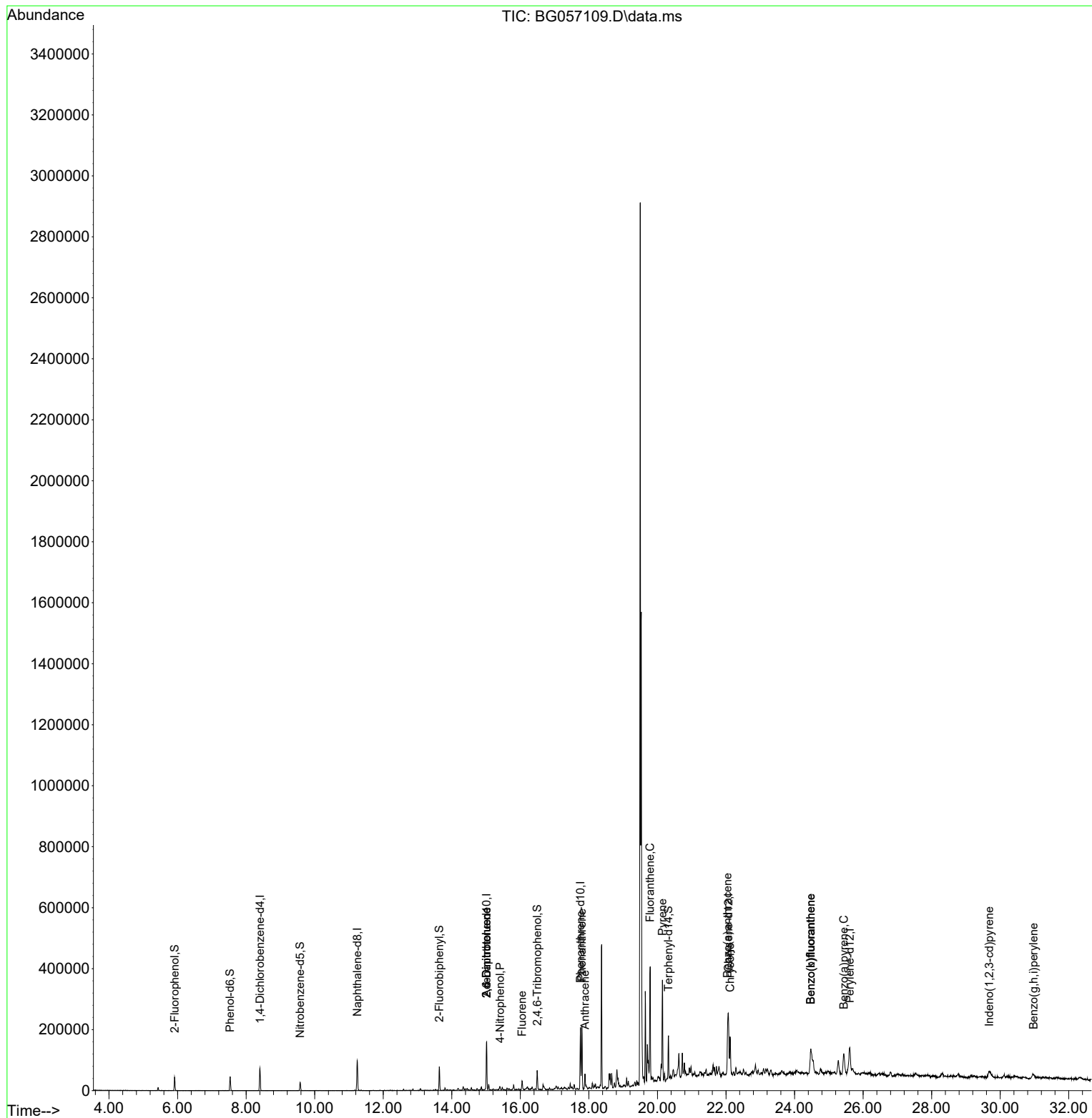
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.402	152	20969	20.000	ng	0.00
21) Naphthalene-d8	11.240	136	81484	20.000	ng	0.00
39) Acenaphthene-d10	15.017	164	57001	20.000	ng	0.00
64) Phenanthrene-d10	17.755	188	120383	20.000	ng	0.00
76) Chrysene-d12	22.072	240	101080	20.000	ng	# 0.00
86) Perylene-d12	25.609	264	110278	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.912	112	19057	14.545	ng	0.00
7) Phenol-d6	7.533	99	27067	13.813	ng	0.00
23) Nitrobenzene-d5	9.577	82	17093	8.583	ng	0.00
42) 2,4,6-Tribromophenol	16.492	330	11293	12.402	ng	0.00
45) 2-Fluorobiphenyl	13.637	172	38711	9.209	ng	0.00
79) Terphenyl-d14	20.322	244	59117	9.897	ng	0.00
Target Compounds						Qvalue
51) 2,6-Dinitrotoluene	15.011	165	7496	7.725	ng	# 21
56) 4-Nitrophenol	15.411	139	2189	3.082	ng	# 1
57) 2,4-Dinitrotoluene	15.011	165	7496	5.477	ng	# 22
58) Fluorene	16.051	166	13357	3.075	ng	94
71) Phenanthrene	17.796	178	126622	20.630	ng	98
72) Anthracene	17.884	178	29380	4.669	ng	99
75) Fluoranthene	19.787	202	222501	28.597	ng	98
78) Pyrene	20.145	202	204792	29.293	ng	97
81) Benzo(a)anthracene	22.049	228	95492	13.652	ng	97
83) Chrysene	22.119	228	93238	14.236	ng	97
87) Indeno(1,2,3-cd)pyrene	29.680	276	42211	5.179	ng	# 70
88) Benzo(b)fluoranthene	24.475	252	113026	16.390	ng	# 98
89) Benzo(k)fluoranthene	24.475	252	113026	16.417	ng	# 96
90) Benzo(a)pyrene	25.438	252	86813	12.811	ng	# 99
92) Benzo(g,h,i)perylene	30.972	276	35095	5.350	ng	# 97

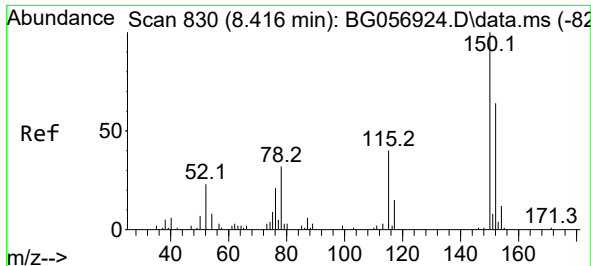
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Apr 15 02:50:02 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

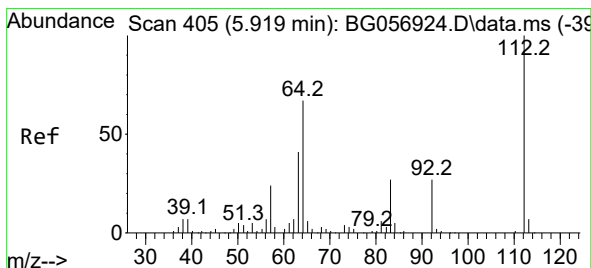
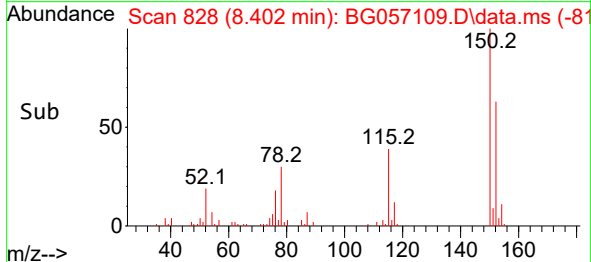
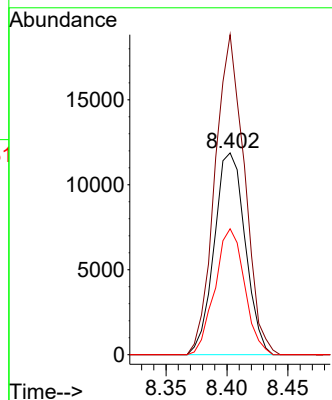
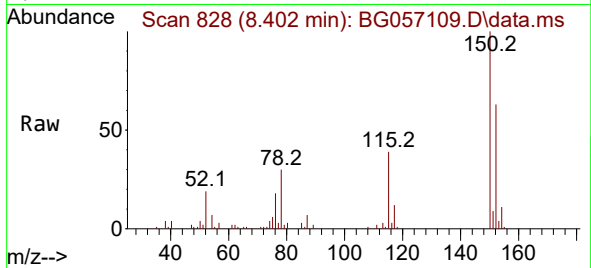




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.402 min Scan# 81
Delta R.T. -0.008 min
Lab File: BG057109.D
Acq: 14 Apr 2023 21:20

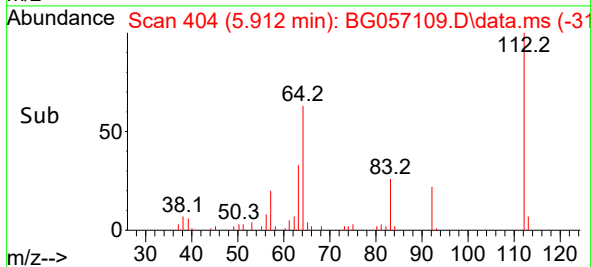
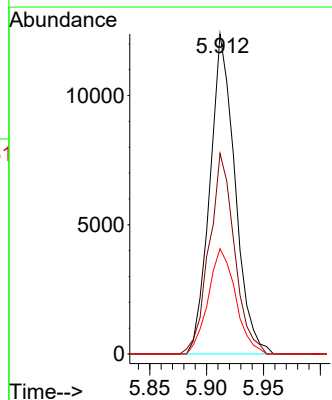
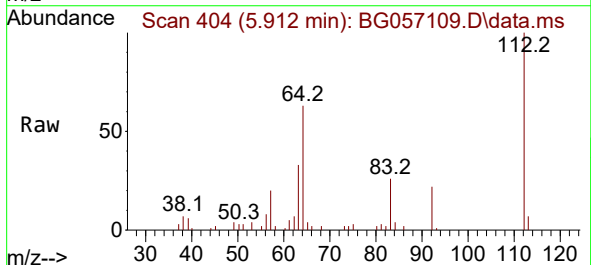
Instrument :
BNA_G
ClientSampleId :
TR-05-041323

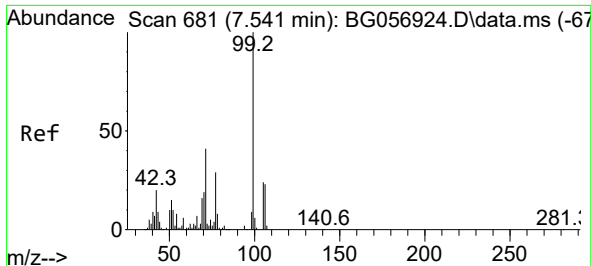
Tgt Ion:152 Resp: 20969
Ion Ratio Lower Upper
152 100
150 158.6 124.1 186.1
115 62.4 49.1 73.7



#5
2-Fluorophenol
Concen: 14.545 ng
RT: 5.912 min Scan# 404
Delta R.T. -0.003 min
Lab File: BG057109.D
Acq: 14 Apr 2023 21:20

Tgt Ion:112 Resp: 19057
Ion Ratio Lower Upper
112 100
64 62.7 53.2 79.8
63 32.9 32.6 48.8

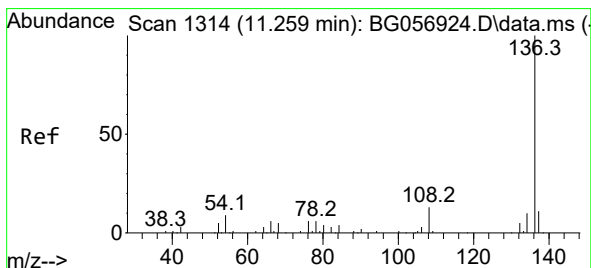
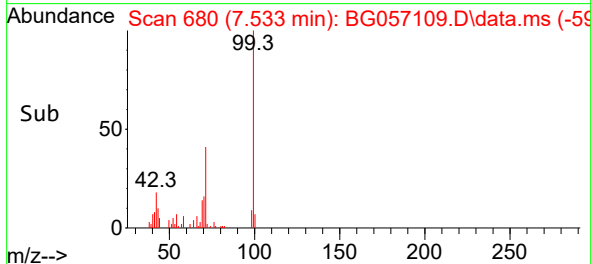
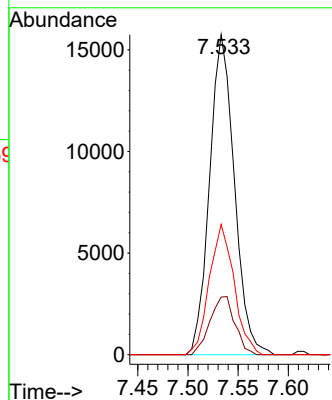
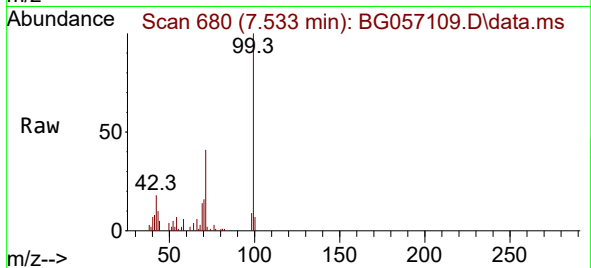




#7
Phenol-d6
Concen: 13.813 ng
RT: 7.533 min Scan# 61
Delta R.T. -0.003 min
Lab File: BG057109.D
Acq: 14 Apr 2023 21:20

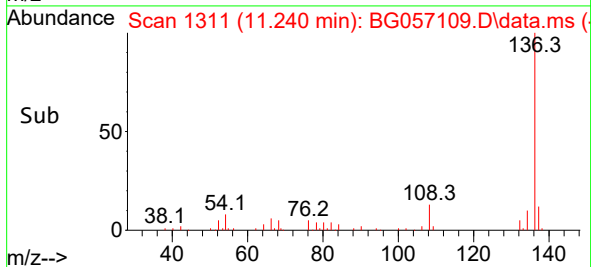
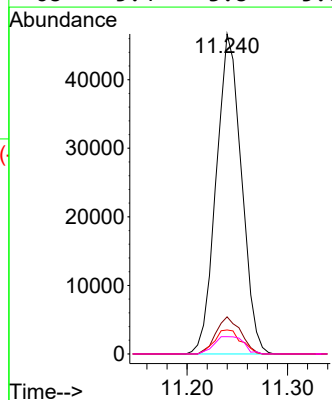
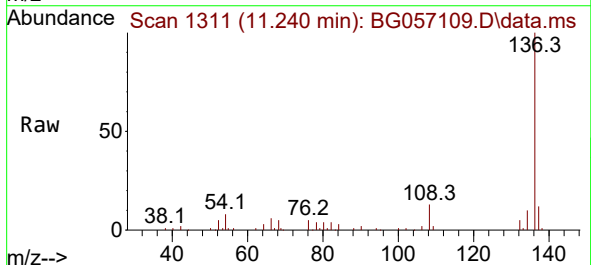
Instrument :
BNA_G
ClientSampleId :
TR-05-041323

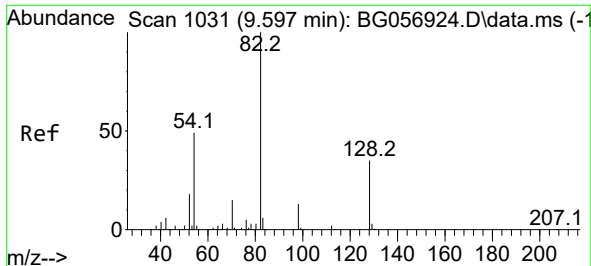
Tgt Ion: 99 Resp: 27067
Ion Ratio Lower Upper
99 100
42 18.0 15.7 23.5
71 40.7 32.5 48.7



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.240 min Scan# 1311
Delta R.T. -0.009 min
Lab File: BG057109.D
Acq: 14 Apr 2023 21:20

Tgt Ion: 136 Resp: 81484
Ion Ratio Lower Upper
136 100
137 11.6 8.6 13.0
54 7.5 6.9 10.3
68 5.4 3.8 5.6

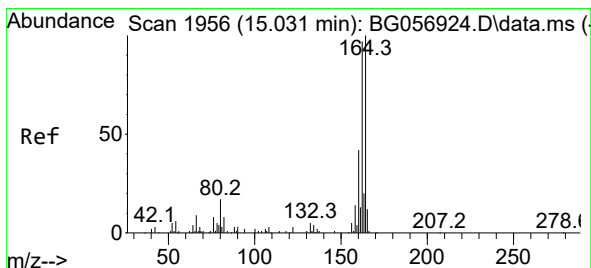
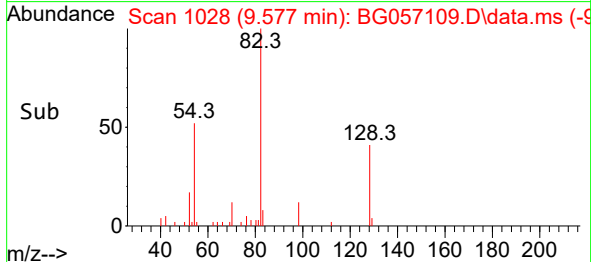
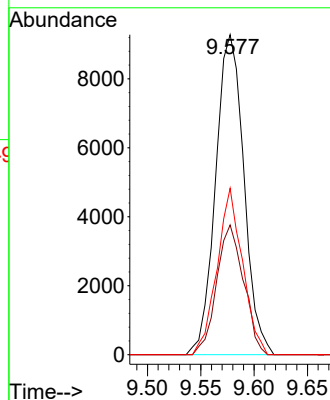
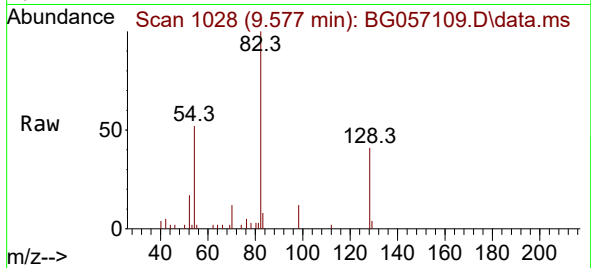




#23
Nitrobenzene-d5
Concen: 8.583 ng
RT: 9.577 min Scan# 1031
Delta R.T. -0.009 min
Lab File: BG057109.D
Acq: 14 Apr 2023 21:20

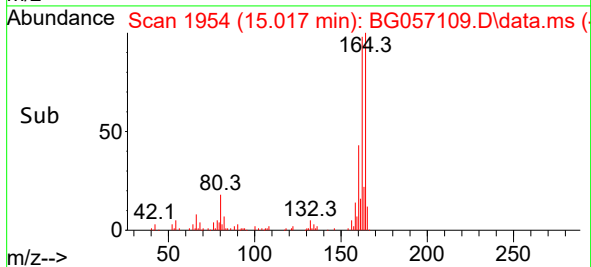
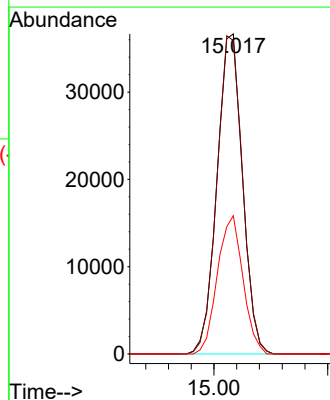
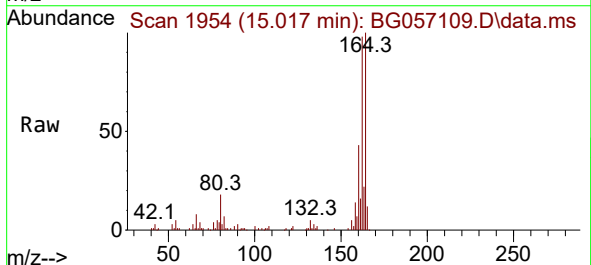
Instrument :
BNA_G
ClientSampleId :
TR-05-041323

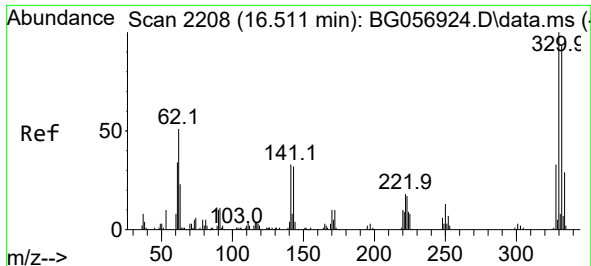
Tgt Ion: 82 Resp: 17093
Ion Ratio Lower Upper
82 100
128 40.5 27.9 41.9
54 52.0 39.4 59.2



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 15.017 min Scan# 1954
Delta R.T. -0.003 min
Lab File: BG057109.D
Acq: 14 Apr 2023 21:20

Tgt Ion: 164 Resp: 57001
Ion Ratio Lower Upper
164 100
162 97.9 77.8 116.8
160 43.2 33.5 50.3





#42

2,4,6-Tribromophenol

Concen: 12.402 ng

RT: 16.492 min Scan# 21

Delta R.T. -0.009 min

Lab File: BG057109.D

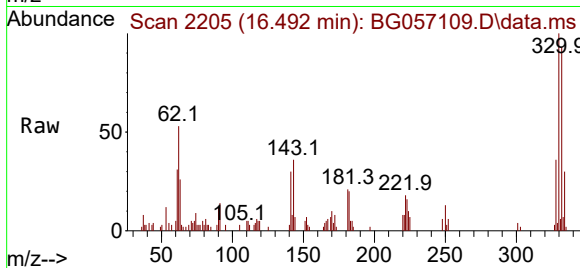
Acq: 14 Apr 2023 21:20

Instrument :

BNA_G

ClientSampleId :

TR-05-041323



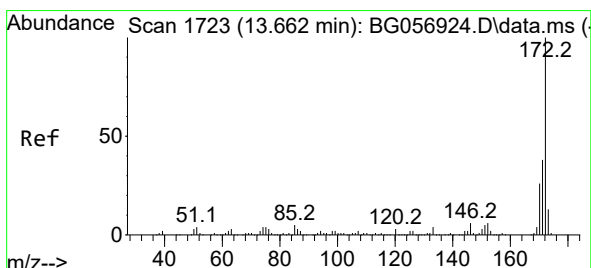
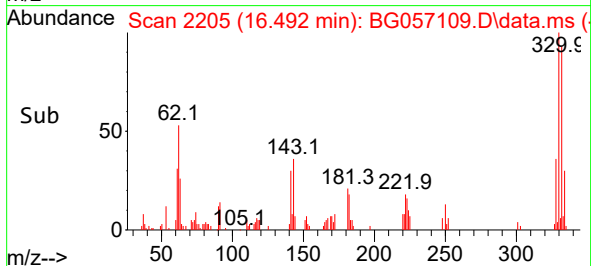
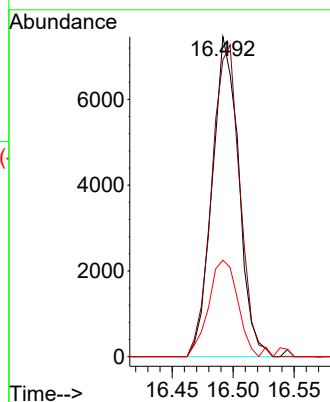
Tgt Ion:330 Resp: 11293

Ion Ratio Lower Upper

330 100

332 102.5 76.1 114.1

141 32.9 25.8 38.6



#45

2-Fluorobiphenyl

Concen: 9.209 ng

RT: 13.637 min Scan# 1719

Delta R.T. -0.009 min

Lab File: BG057109.D

Acq: 14 Apr 2023 21:20

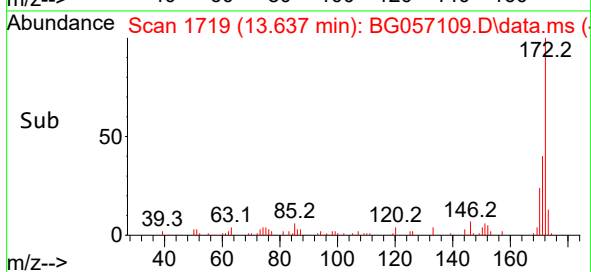
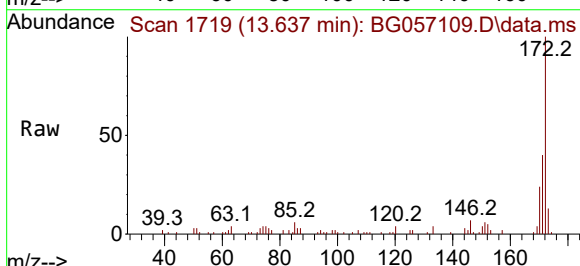
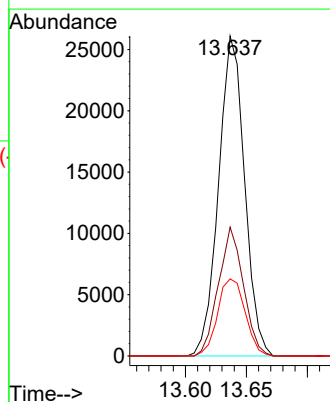
Tgt Ion:172 Resp: 38711

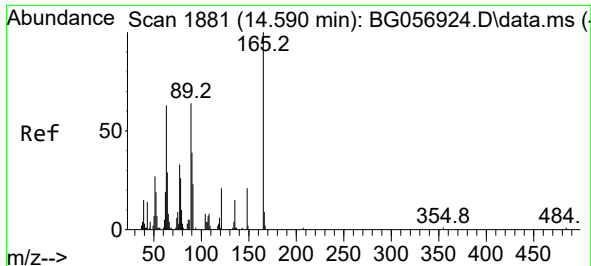
Ion Ratio Lower Upper

172 100

171 40.2 30.6 46.0

170 24.1 20.6 30.8

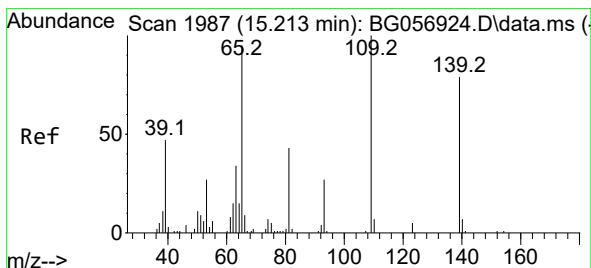
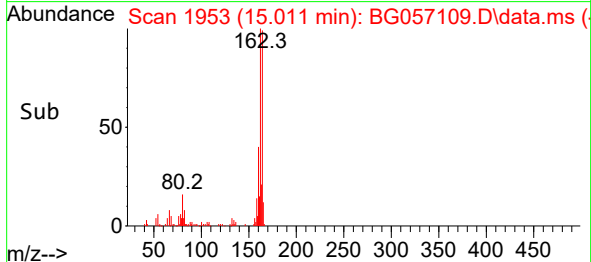
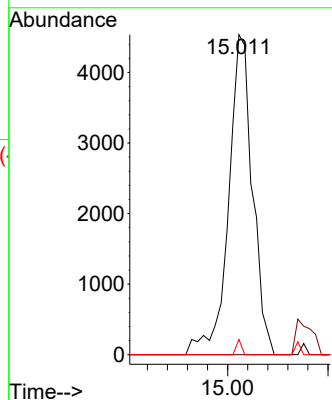
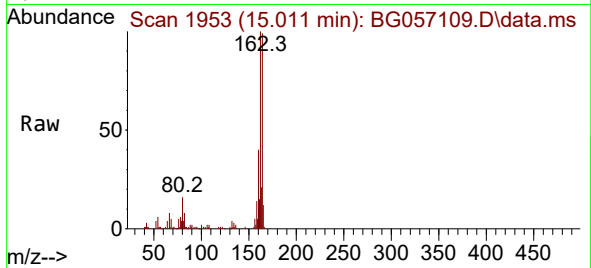




#51
2,6-Dinitrotoluene
Concen: 7.725 ng
RT: 15.011 min Scan# 1953
Delta R.T. 0.426 min
Lab File: BG057109.D
Acq: 14 Apr 2023 21:20

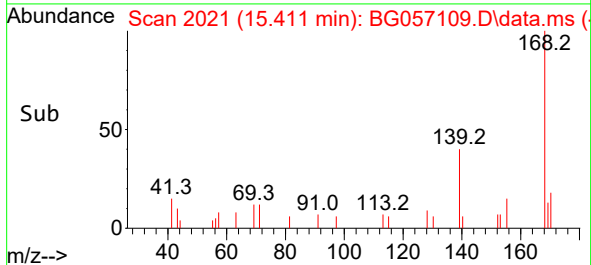
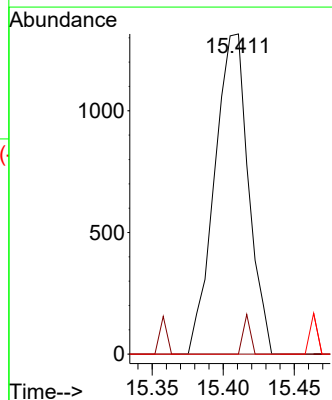
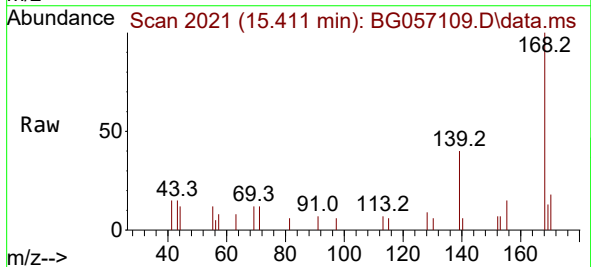
Instrument :
BNA_G
ClientSampleId :
TR-05-041323

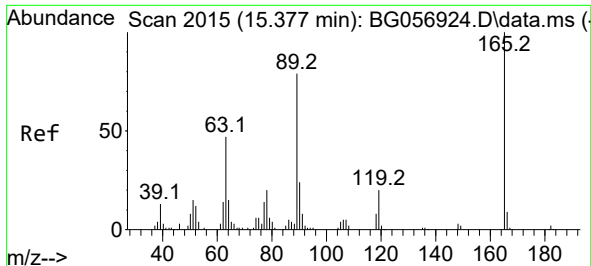
Tgt Ion:165 Resp: 7496
Ion Ratio Lower Upper
165 100
63 0.0 53.0 79.6#
89 4.8 51.0 76.4#



#56
4-Nitrophenol
Concen: 3.082 ng
RT: 15.411 min Scan# 2021
Delta R.T. 0.203 min
Lab File: BG057109.D
Acq: 14 Apr 2023 21:20

Tgt Ion:139 Resp: 2189
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: 5.477 ng

RT: 15.011 min Scan# 1953

Delta R.T. -0.355 min

Lab File: BG057109.D

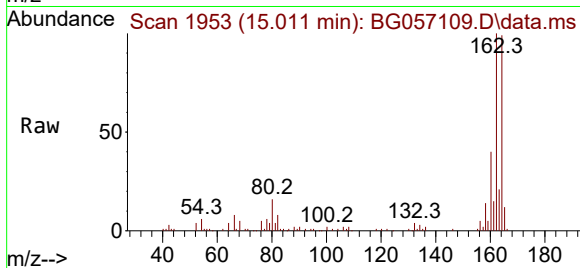
Acq: 14 Apr 2023 21:20

Instrument :

BNA_G

ClientSampleId :

TR-05-041323



Tgt Ion:165 Resp: 7496

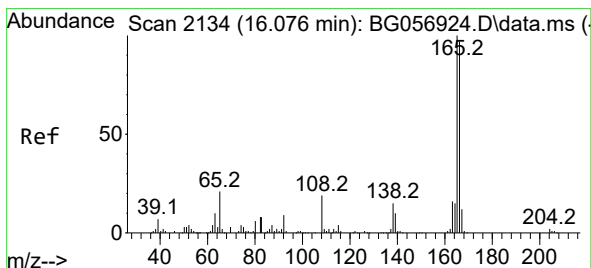
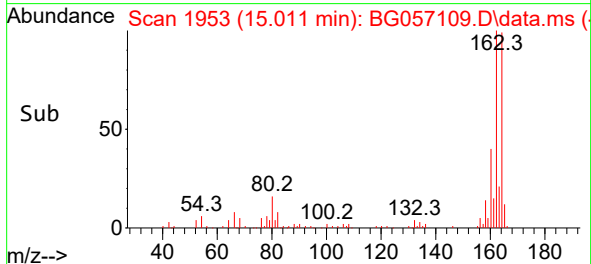
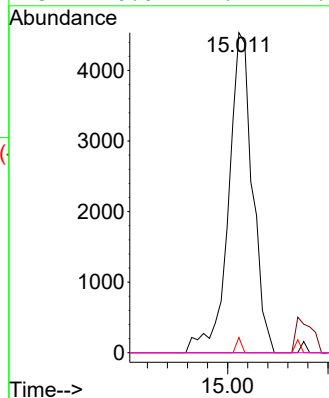
Ion Ratio Lower Upper

165 100

63 0.0 37.7 56.5#

89 4.8 63.2 94.8#

182 0.0 1.7 2.5#



#58

Fluorene

Concen: 3.075 ng

RT: 16.051 min Scan# 2130

Delta R.T. -0.009 min

Lab File: BG057109.D

Acq: 14 Apr 2023 21:20

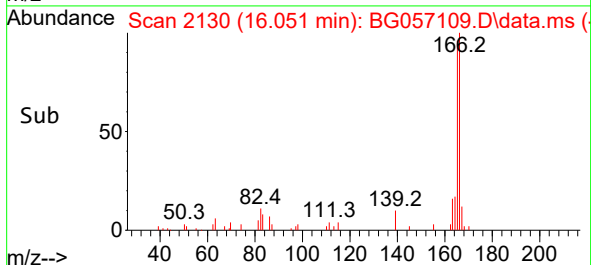
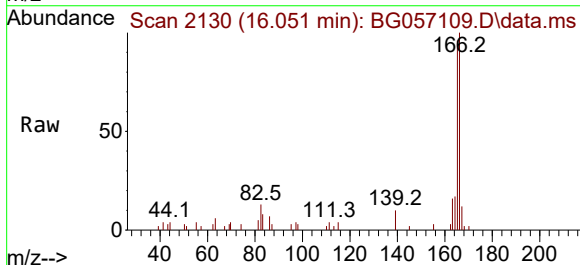
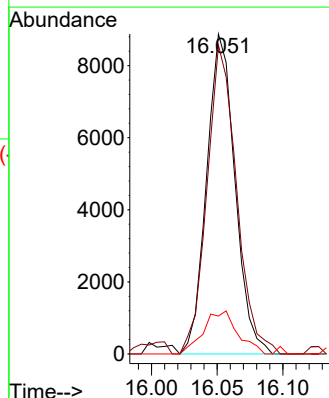
Tgt Ion:166 Resp: 13357

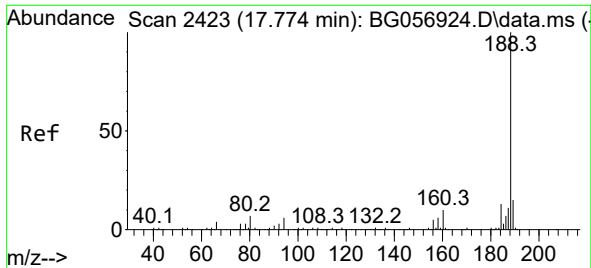
Ion Ratio Lower Upper

166 100

165 96.5 82.6 123.8

167 11.8 10.2 15.2

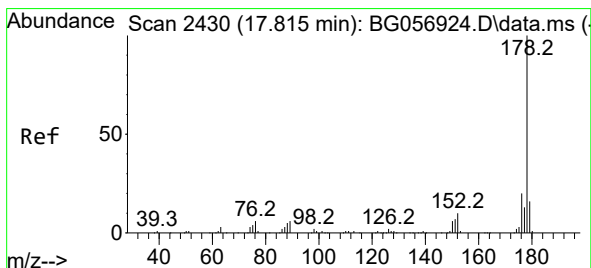
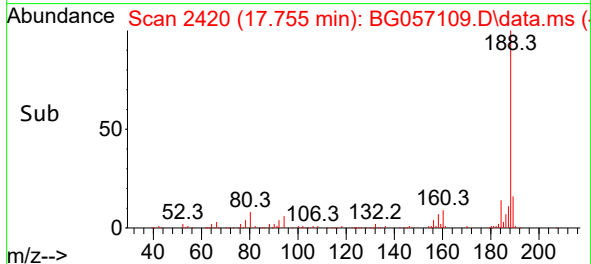
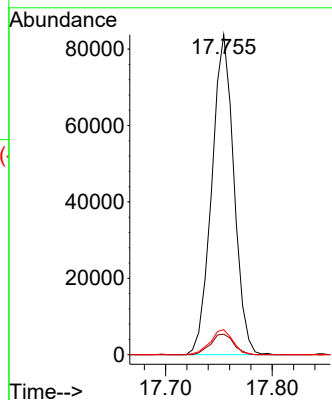
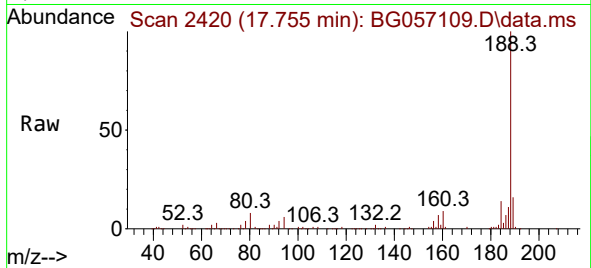




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.755 min Scan# 2420
Delta R.T. -0.009 min
Lab File: BG057109.D
Acq: 14 Apr 2023 21:20

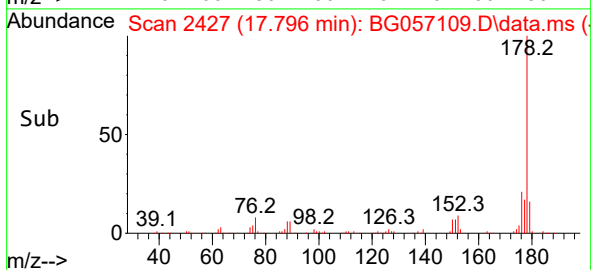
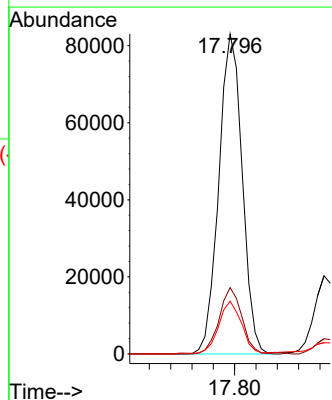
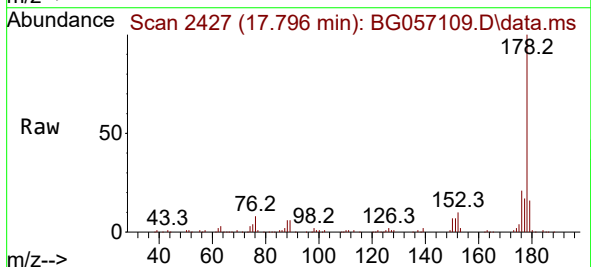
Instrument :
BNA_G
ClientSampleId :
TR-05-041323

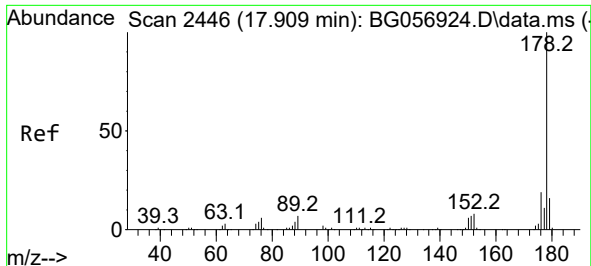
Tgt Ion:188 Resp: 120383
Ion Ratio Lower Upper
188 100
94 6.4 4.6 6.8
80 7.8 5.5 8.3



#71
Phenanthrene
Concen: 20.630 ng
RT: 17.796 min Scan# 2427
Delta R.T. -0.009 min
Lab File: BG057109.D
Acq: 14 Apr 2023 21:20

Tgt Ion:178 Resp: 126622
Ion Ratio Lower Upper
178 100
176 20.8 16.2 24.2
179 16.5 12.5 18.7

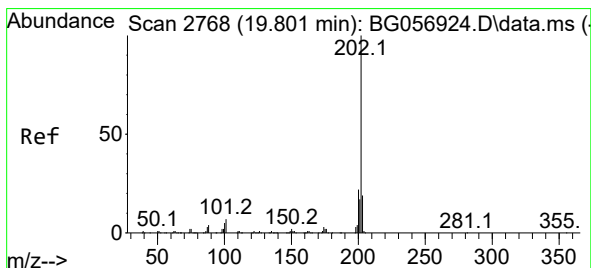
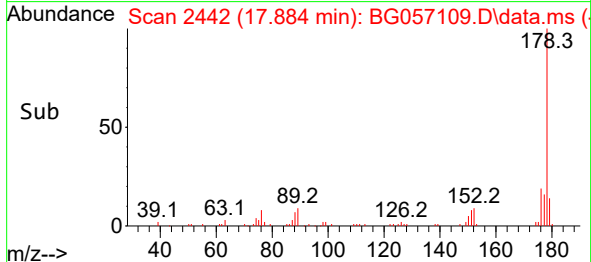
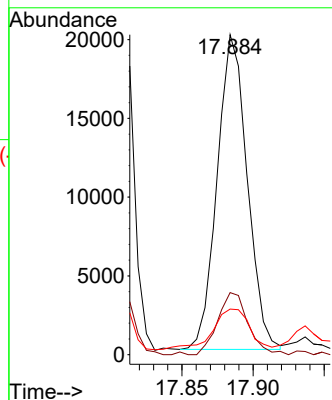
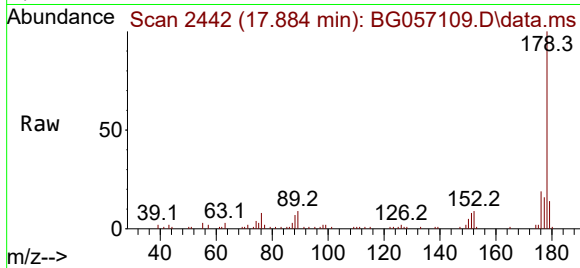




#72
 Anthracene
 Concen: 4.669 ng
 RT: 17.884 min Scan# 2446
 Delta R.T. -0.009 min
 Lab File: BG057109.D
 Acq: 14 Apr 2023 21:20

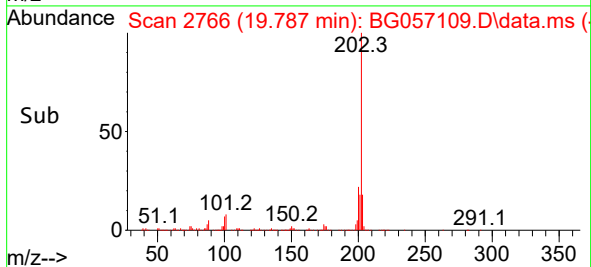
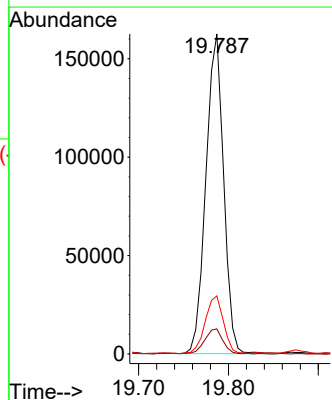
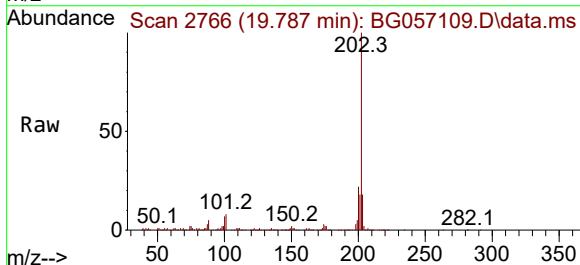
Instrument :
 BNA_G
 ClientSampleId :
 TR-05-041323

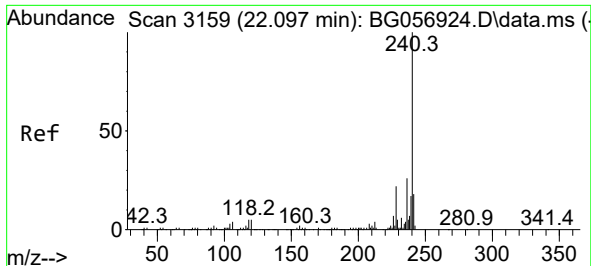
Tgt Ion:178 Resp: 29380
 Ion Ratio Lower Upper
 178 100
 176 19.4 15.4 23.2
 179 14.2 12.4 18.6



#75
 Fluoranthene
 Concen: 28.597 ng
 RT: 19.787 min Scan# 2766
 Delta R.T. -0.003 min
 Lab File: BG057109.D
 Acq: 14 Apr 2023 21:20

Tgt Ion:202 Resp: 222501
 Ion Ratio Lower Upper
 202 100
 101 7.9 0.0 26.7
 203 18.2 0.0 39.0

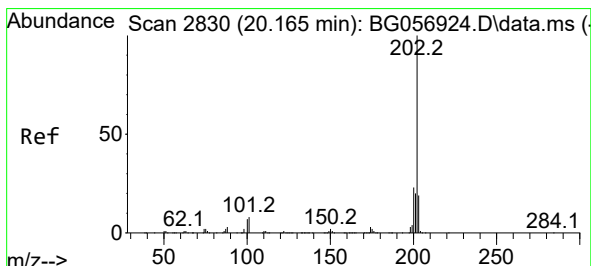
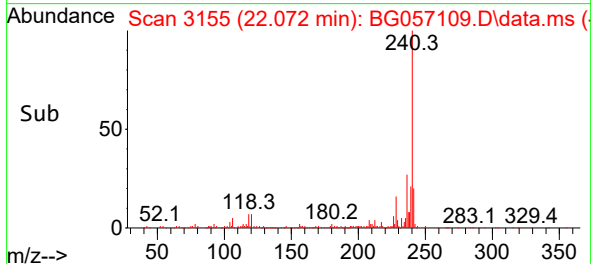
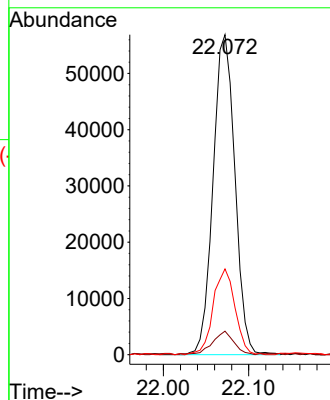
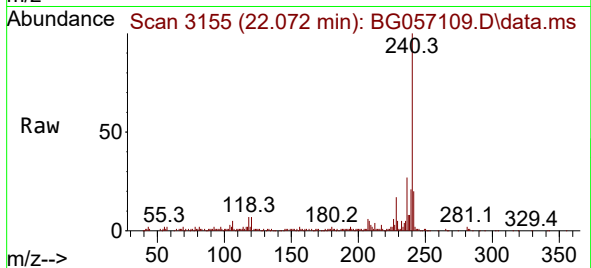




#76
Chrysene-d12
Concen: 20.000 ng
RT: 22.072 min Scan# 3159
Delta R.T. -0.009 min
Lab File: BG057109.D
Acq: 14 Apr 2023 21:20

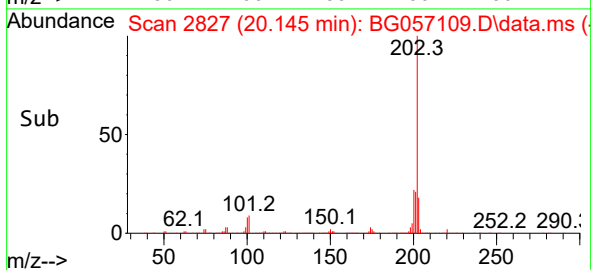
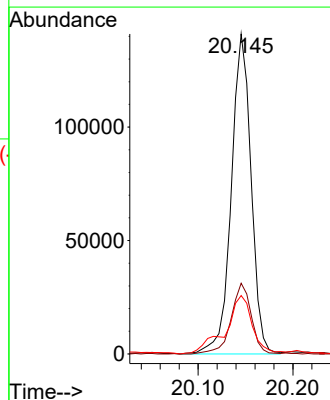
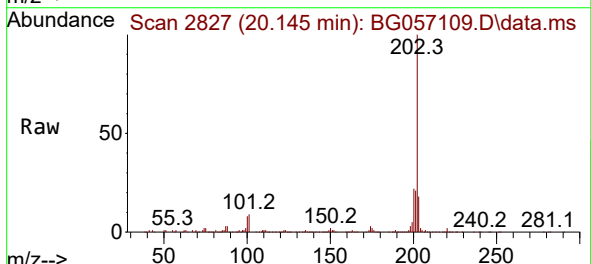
Instrument :
BNA_G
ClientSampleId :
TR-05-041323

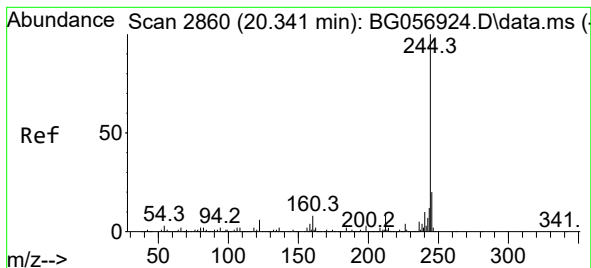
Tgt Ion:240 Resp: 101080
Ion Ratio Lower Upper
240 100
120 7.3 3.8 5.6#
236 26.8 21.0 31.6



#78
Pyrene
Concen: 29.293 ng
RT: 20.145 min Scan# 2827
Delta R.T. -0.003 min
Lab File: BG057109.D
Acq: 14 Apr 2023 21:20

Tgt Ion:202 Resp: 204792
Ion Ratio Lower Upper
202 100
200 22.1 18.7 28.1
203 18.3 15.4 23.2





#79

Terphenyl-d14

Concen: 9.897 ng

RT: 20.322 min Scan# 21

Delta R.T. -0.003 min

Lab File: BG057109.D

Acq: 14 Apr 2023 21:20

Instrument :

BNA_G

ClientSampleId :

TR-05-041323

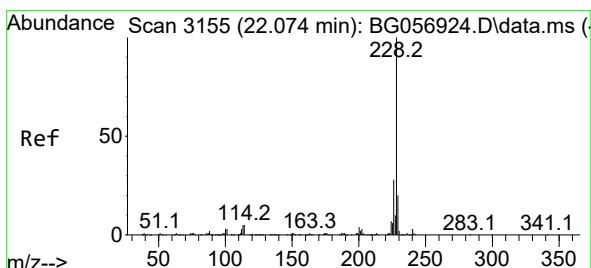
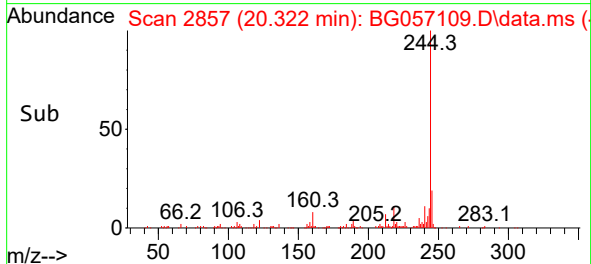
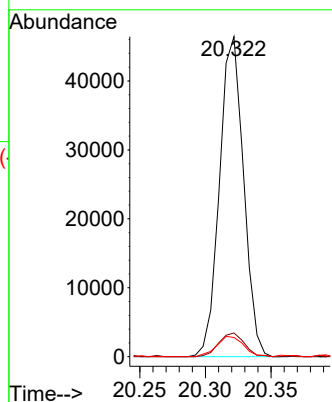
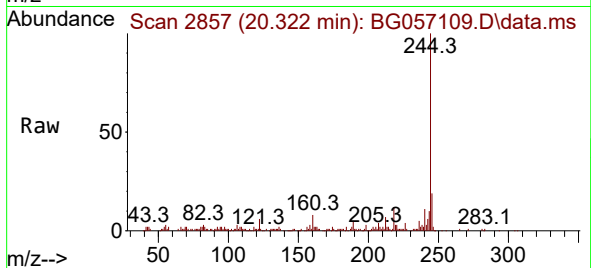
Tgt Ion:244 Resp: 59117

Ion Ratio Lower Upper

244 100

212 7.4 6.1 9.1

122 6.0 5.0 7.4



#81

Benzo(a)anthracene

Concen: 13.652 ng

RT: 22.049 min Scan# 3151

Delta R.T. -0.009 min

Lab File: BG057109.D

Acq: 14 Apr 2023 21:20

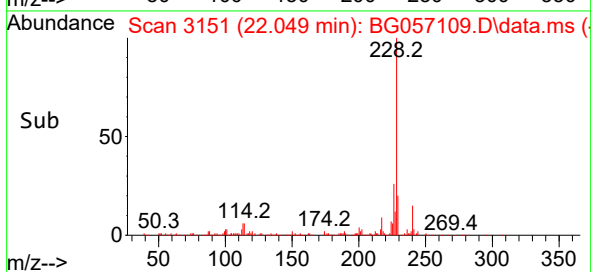
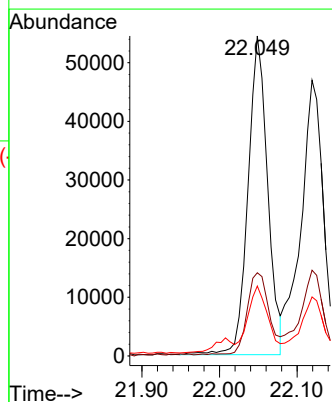
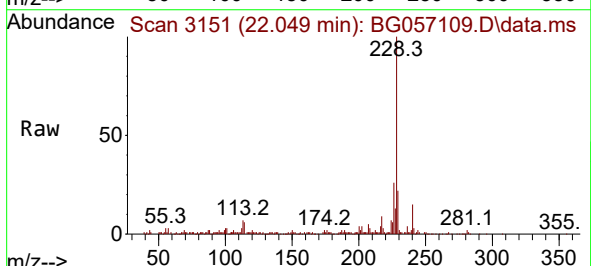
Tgt Ion:228 Resp: 95492

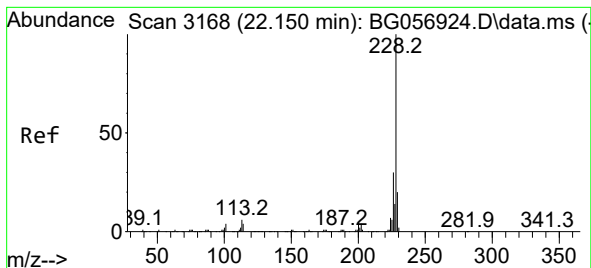
Ion Ratio Lower Upper

228 100

226 26.0 22.1 33.1

229 21.9 16.1 24.1





#83

Chrysene

Concen: 14.236 ng

RT: 22.119 min Scan# 3163

Delta R.T. -0.009 min

Lab File: BG057109.D

Acq: 14 Apr 2023 21:20

Instrument :

BNA_G

ClientSampleId :

TR-05-041323

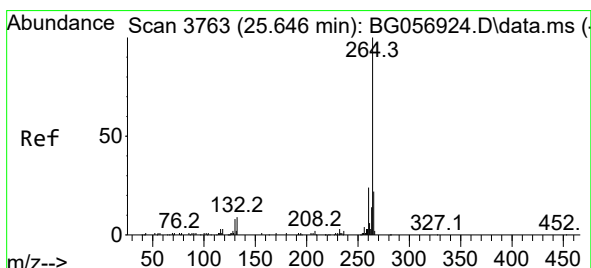
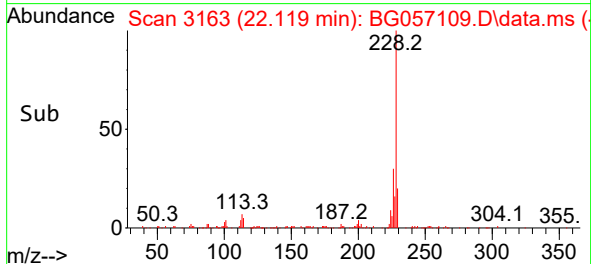
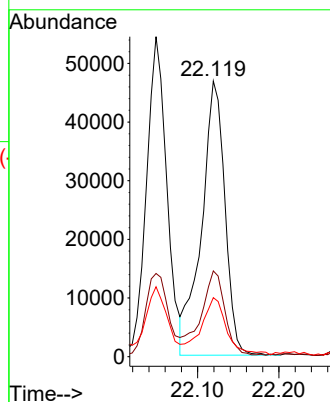
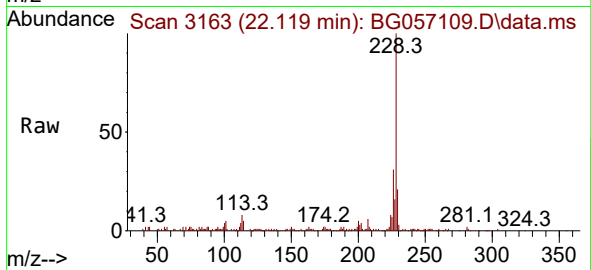
Tgt Ion:228 Resp: 93238

Ion Ratio Lower Upper

228 100

226 31.1 24.1 36.1

229 21.4 15.6 23.4



#86

Perylene-d12

Concen: 20.000 ng

RT: 25.609 min Scan# 3757

Delta R.T. -0.003 min

Lab File: BG057109.D

Acq: 14 Apr 2023 21:20

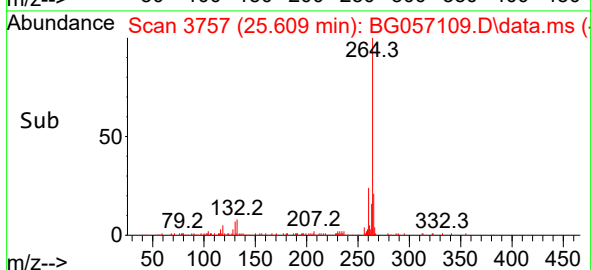
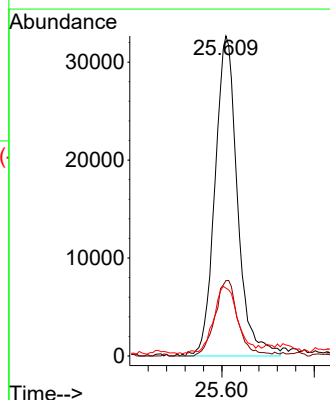
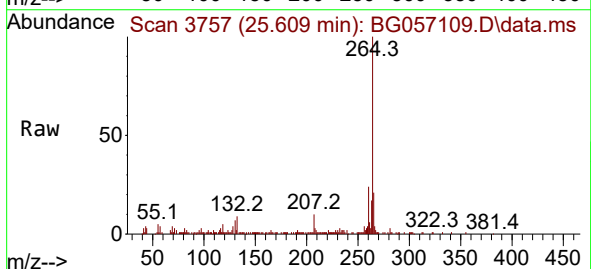
Tgt Ion:264 Resp: 110278

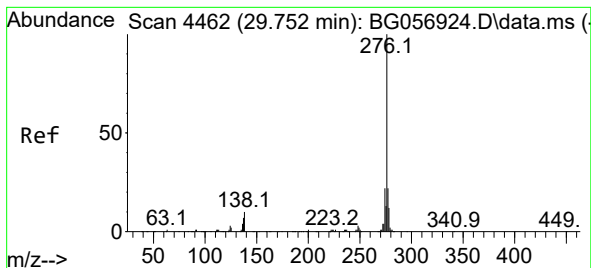
Ion Ratio Lower Upper

264 100

260 23.5 19.0 28.4

265 21.2 17.8 26.6





#87

Indeno(1,2,3-cd)pyrene

Concen: 5.179 ng

RT: 29.680 min Scan# 4462

Delta R.T. -0.032 min

Lab File: BG057109.D

Acq: 14 Apr 2023 21:20

Instrument :

BNA_G

ClientSampleId :

TR-05-041323

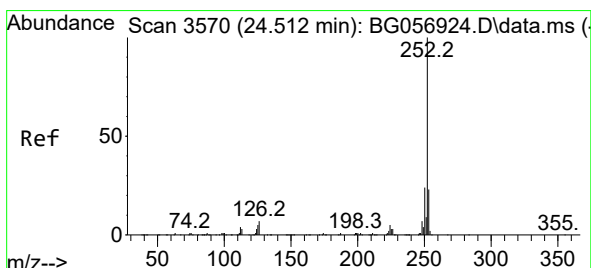
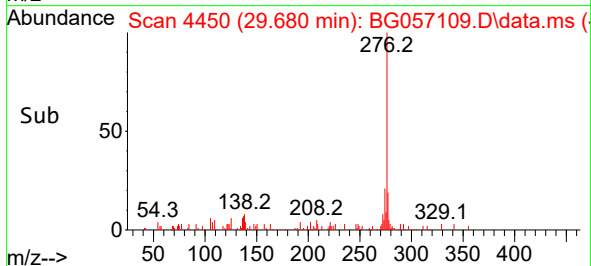
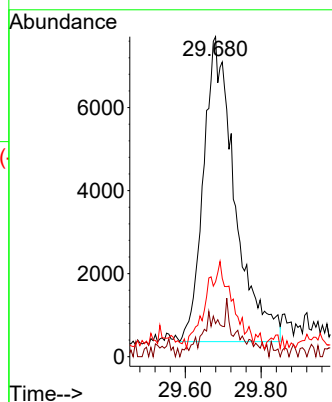
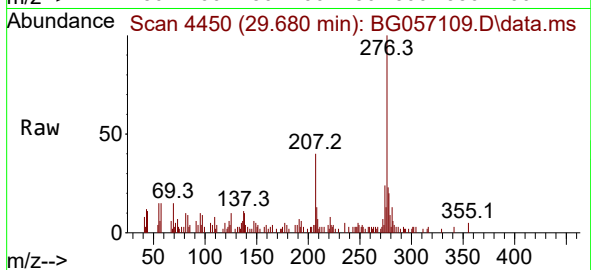
Tgt Ion:276 Resp: 42211

Ion Ratio Lower Upper

276 100

138 2.4 7.7 11.5#

277 8.8 21.0 31.4#



#88

Benzo(b)fluoranthene

Concen: 16.390 ng

RT: 24.475 min Scan# 3564

Delta R.T. -0.009 min

Lab File: BG057109.D

Acq: 14 Apr 2023 21:20

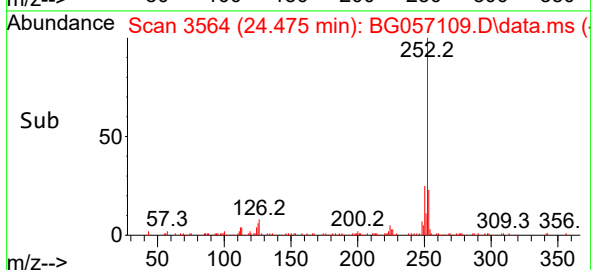
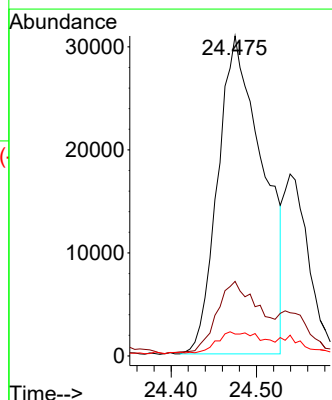
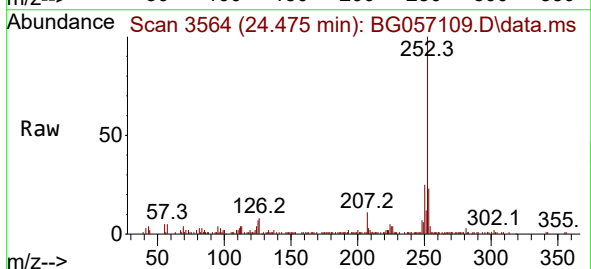
Tgt Ion:252 Resp: 113026

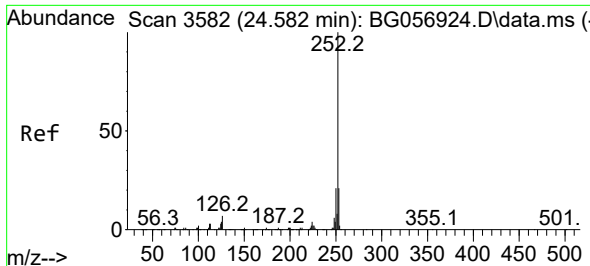
Ion Ratio Lower Upper

252 100

253 23.3 18.1 27.1

125 6.8 4.2 6.4#

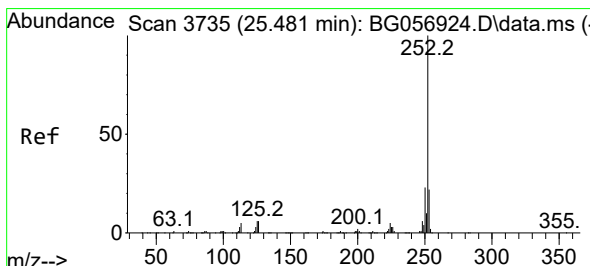
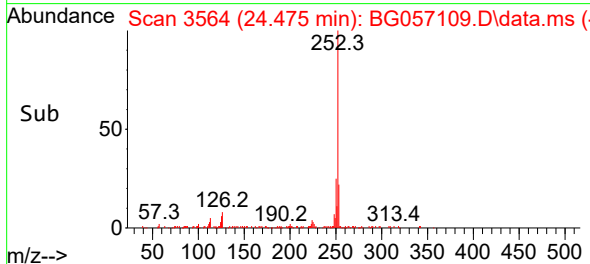
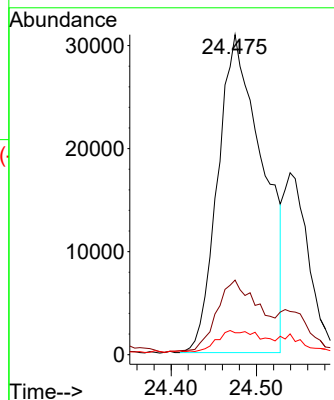
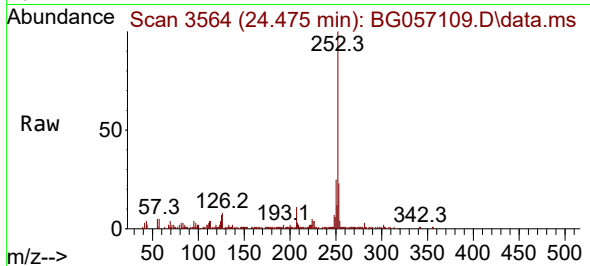




#89
Benzo(k)fluoranthene
Concen: 16.417 ng
RT: 24.475 min Scan# 31
Delta R.T. -0.085 min
Lab File: BG057109.D
Acq: 14 Apr 2023 21:20

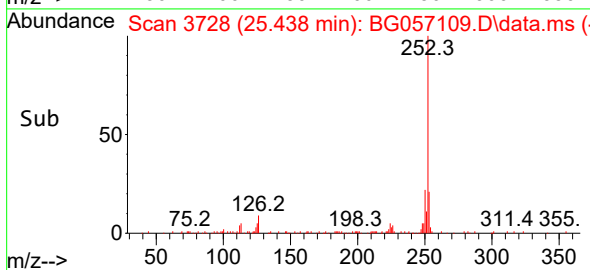
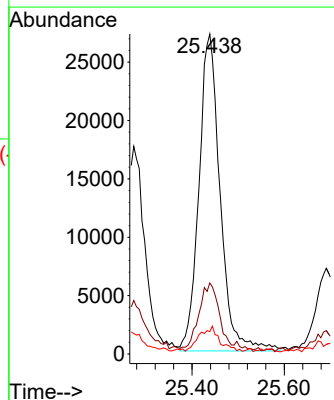
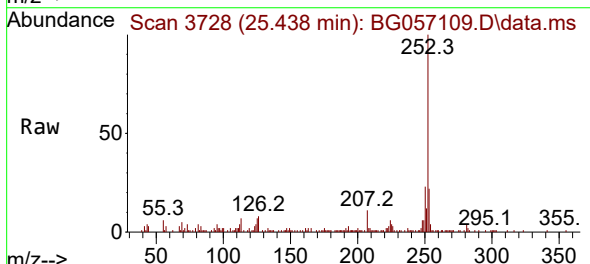
Instrument :
BNA_G
ClientSampleId :
TR-05-041323

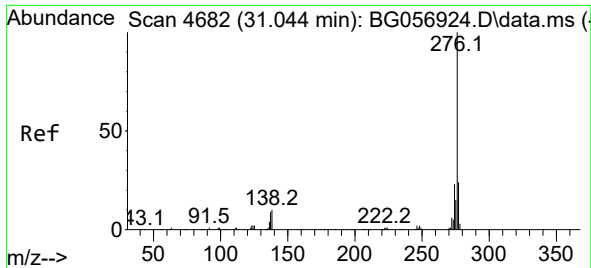
Tgt Ion:252 Resp: 113026
Ion Ratio Lower Upper
252 100
253 23.3 17.1 25.7
125 6.8 3.8 5.6#



#90
Benzo(a)pyrene
Concen: 12.811 ng
RT: 25.438 min Scan# 3728
Delta R.T. -0.015 min
Lab File: BG057109.D
Acq: 14 Apr 2023 21:20

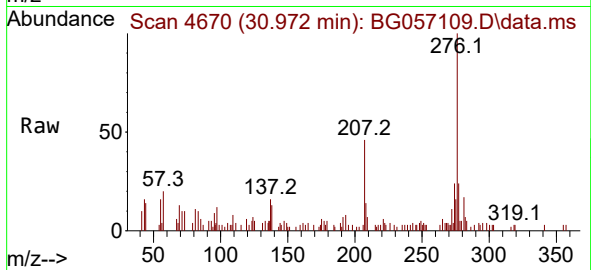
Tgt Ion:252 Resp: 86813
Ion Ratio Lower Upper
252 100
253 22.2 17.6 26.4
125 7.0 4.5 6.7#





#92
 Benzo(g,h,i)perylene
 Concen: 5.350 ng
 RT: 30.972 min Scan# 4
 Delta R.T. -0.020 min
 Lab File: BG057109.D
 Acq: 14 Apr 2023 21:20

Instrument :
 BNA_G
 ClientSampleId :
 TR-05-041323



Tgt Ion:276 Resp: 35095
 Ion Ratio Lower Upper
 276 100
 277 24.0 19.1 28.7
 138 13.3 8.2 12.2#

