

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG051923\
 Data File : BG057483.D
 Acq On : 20 May 2023 1:46
 Operator : CG/JU
 Sample : 02846-01 5X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 EO-01-051823

Quant Time: May 20 04:32:01 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG042723.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat May 20 04:19:55 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

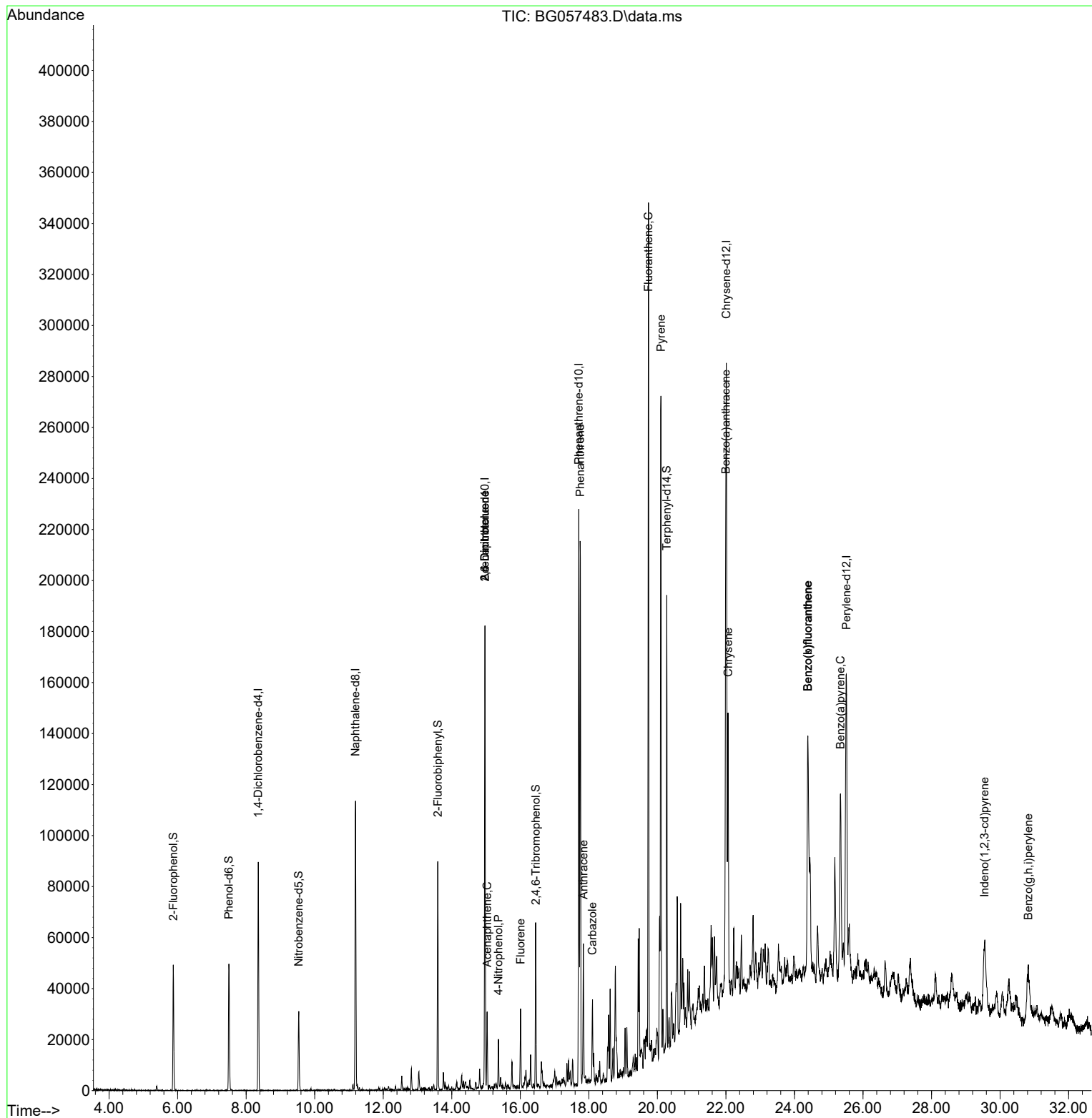
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.354	152	25489	20.000	ng	0.00
21) Naphthalene-d8	11.192	136	100360	20.000	ng	# 0.00
39) Acenaphthene-d10	14.969	164	65420	20.000	ng	0.00
64) Phenanthrene-d10	17.706	188	143724	20.000	ng	0.00
76) Chrysene-d12	22.012	240	135519	20.000	ng	0.00
86) Perylene-d12	25.514	264	146297	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.875	112	22371	15.014	ng	0.00
7) Phenol-d6	7.497	99	33178	14.663	ng	0.00
23) Nitrobenzene-d5	9.535	82	20866	8.726	ng	0.00
42) 2,4,6-Tribromophenol	16.455	330	12828	13.820	ng	0.00
45) 2-Fluorobiphenyl	13.594	172	51477	10.598	ng	0.00
79) Terphenyl-d14	20.274	244	78390	9.440	ng	0.00
Target Compounds						
						Qvalue
51) 2,6-Dinitrotoluene	14.969	165	8816	8.032	ng	# 17
52) Acenaphthene	15.034	154	11350	3.097	ng	97
56) 4-Nitrophenol	15.363	139	4465	6.105	ng	# 1
57) 2,4-Dinitrotoluene	14.969	165	8816	5.620	ng	# 20
58) Fluorene	16.009	166	14791	2.916	ng	98
71) Phenanthrene	17.748	178	144779	19.659	ng	100
72) Anthracene	17.842	178	37100	4.909	ng	97
73) Carbazole	18.106	167	20942	3.292	ng	96
75) Fluoranthene	19.739	202	216024	23.584	ng	100
78) Pyrene	20.103	202	178277	18.104	ng	98
81) Benzo(a)anthracene	21.995	228	100307	10.389	ng	98
83) Chrysene	22.065	228	87282	9.608	ng	97
87) Indeno(1,2,3-cd)pyrene	29.549	276	52763	4.949	ng	# 56
88) Benzo(b)fluoranthene	24.392	252	113830	11.903	ng	93
89) Benzo(k)fluoranthene	24.392	252	113830	11.713	ng	93
90) Benzo(a)pyrene	25.343	252	87015	9.313	ng	93
92) Benzo(g,h,i)perylene	30.824	276	52546	6.061	ng	96

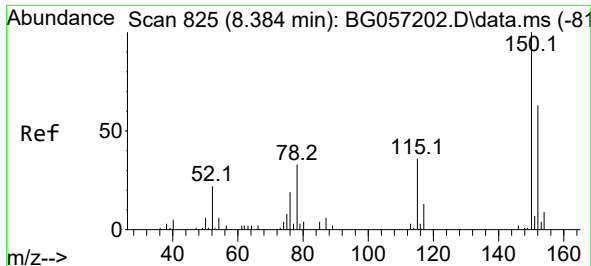
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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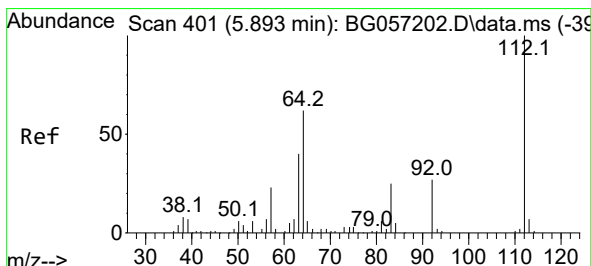
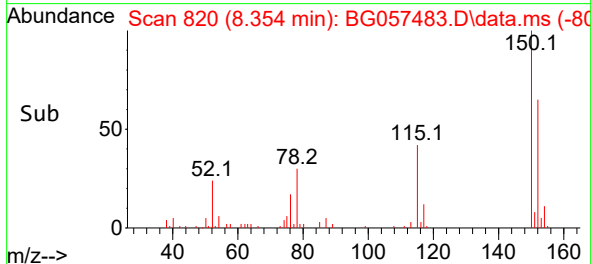
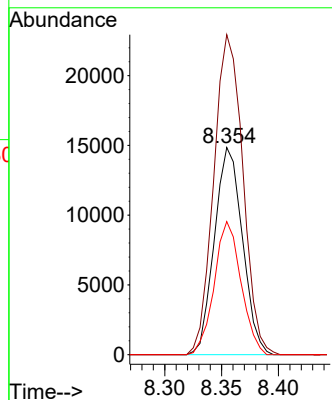
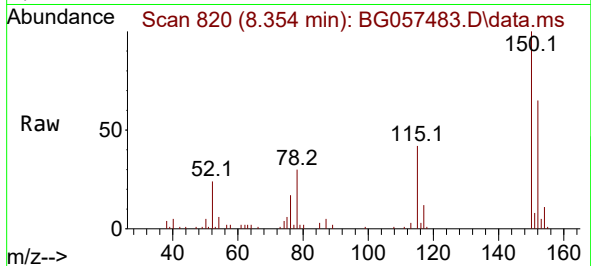




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.354 min Scan# 81
Delta R.T. -0.008 min
Lab File: BG057483.D
Acq: 20 May 2023 1:46

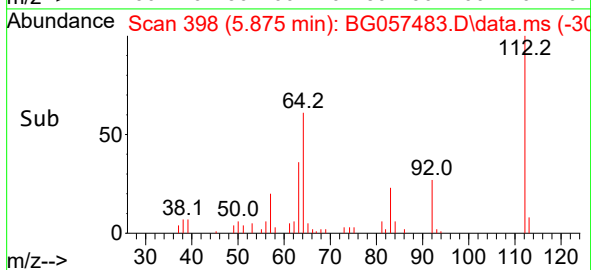
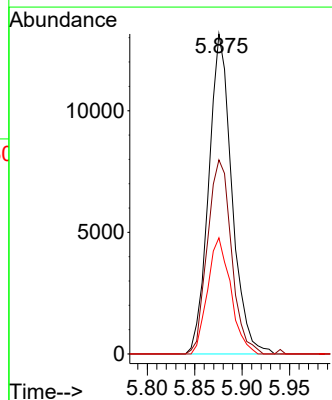
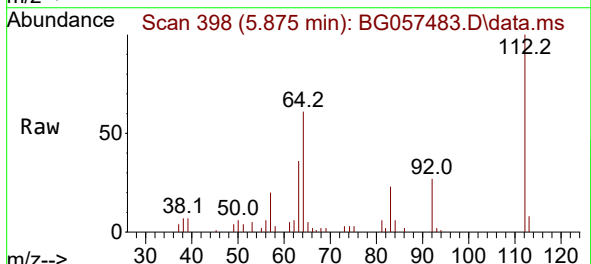
Instrument :
BNA_G
ClientSampleId :
EO-01-051823

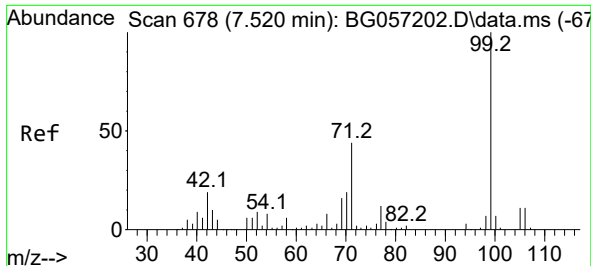
Tgt Ion:152 Resp: 25489
Ion Ratio Lower Upper
152 100
150 154.4 126.2 189.4
115 64.2 45.0 67.4



#5
2-Fluorophenol
Concen: 15.014 ng
RT: 5.875 min Scan# 398
Delta R.T. 0.005 min
Lab File: BG057483.D
Acq: 20 May 2023 1:46

Tgt Ion:112 Resp: 22371
Ion Ratio Lower Upper
112 100
64 60.6 49.4 74.2
63 36.3 31.6 47.4

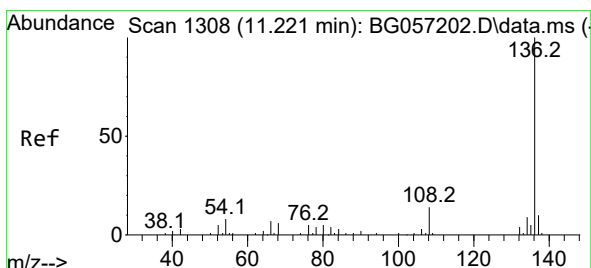
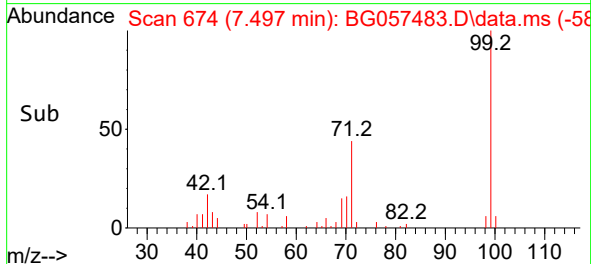
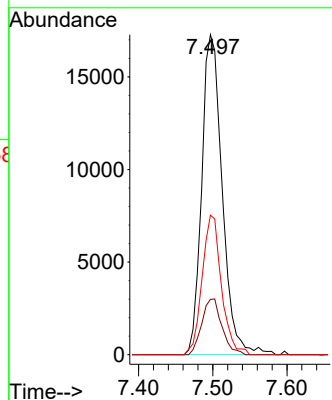
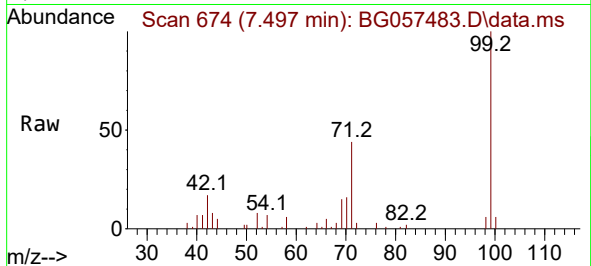




#7
Phenol-d6
Concen: 14.663 ng
RT: 7.497 min Scan# 61
Delta R.T. -0.001 min
Lab File: BG057483.D
Acq: 20 May 2023 1:46

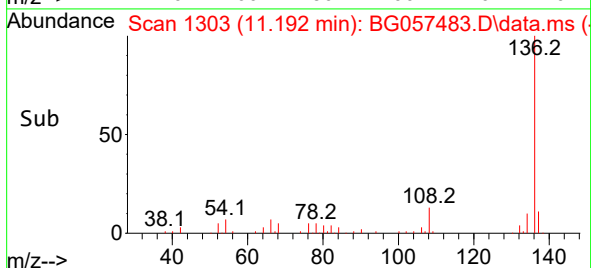
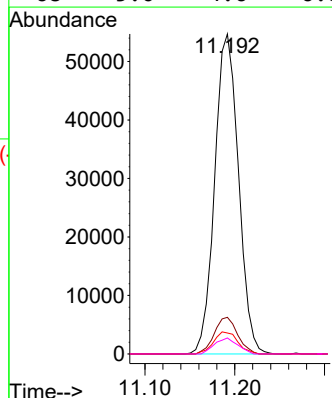
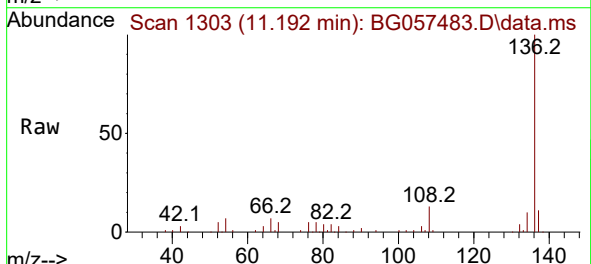
Instrument :
BNA_G
ClientSampleId :
EO-01-051823

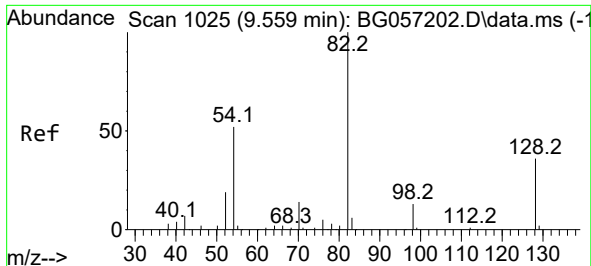
Tgt Ion: 99 Resp: 33178
Ion Ratio Lower Upper
99 100
42 17.3 15.1 22.7
71 43.6 35.2 52.8



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.192 min Scan# 1303
Delta R.T. -0.007 min
Lab File: BG057483.D
Acq: 20 May 2023 1:46

Tgt Ion: 136 Resp: 100360
Ion Ratio Lower Upper
136 100
137 11.5 8.3 12.5
54 6.5 6.7 10.1#
68 5.0 4.6 6.8





#23

Nitrobenzene-d5

Concen: 8.726 ng

RT: 9.535 min Scan# 1021

Delta R.T. -0.001 min

Lab File: BG057483.D

Acq: 20 May 2023 1:46

Instrument :

BNA_G

ClientSampleId :

EO-01-051823

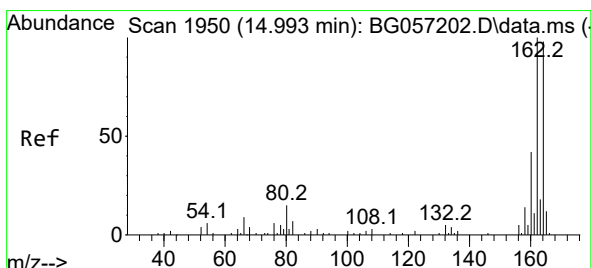
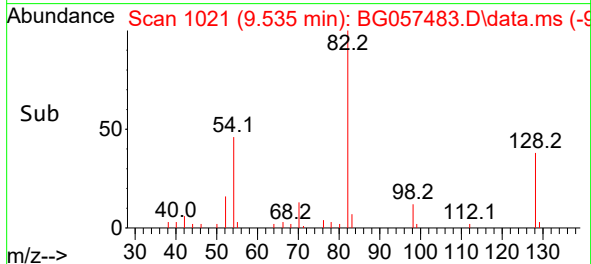
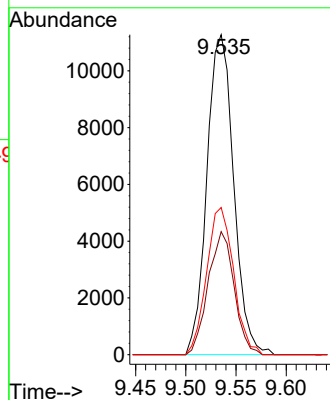
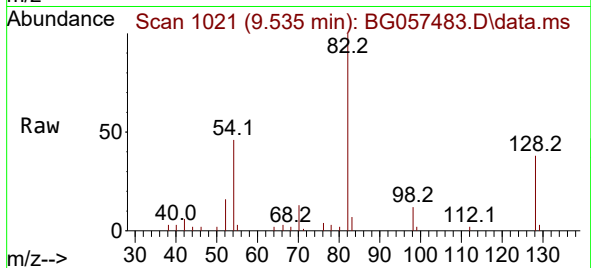
Tgt Ion: 82 Resp: 20866

Ion Ratio Lower Upper

82 100

128 38.5 29.0 43.4

54 46.0 41.4 62.0



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.969 min Scan# 1946

Delta R.T. -0.007 min

Lab File: BG057483.D

Acq: 20 May 2023 1:46

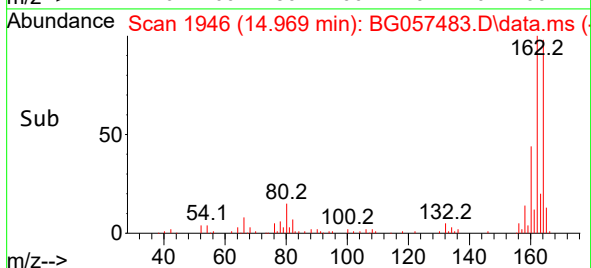
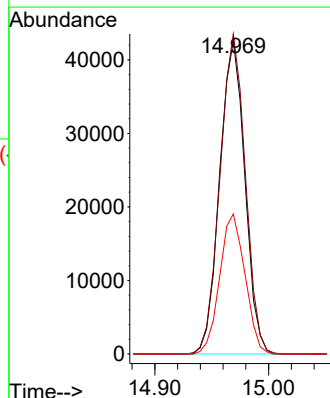
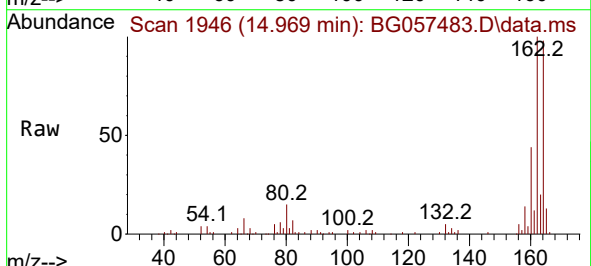
Tgt Ion: 164 Resp: 65420

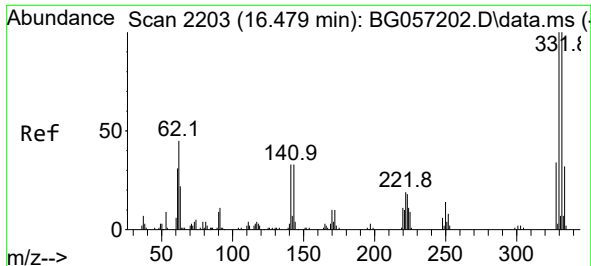
Ion Ratio Lower Upper

164 100

162 102.1 81.8 122.6

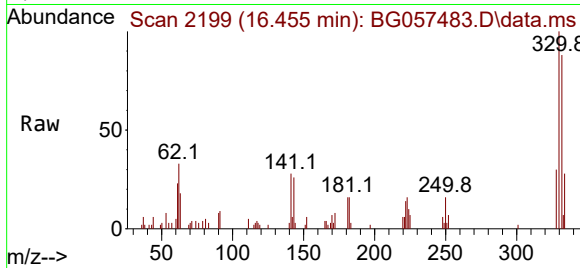
160 44.7 34.6 52.0



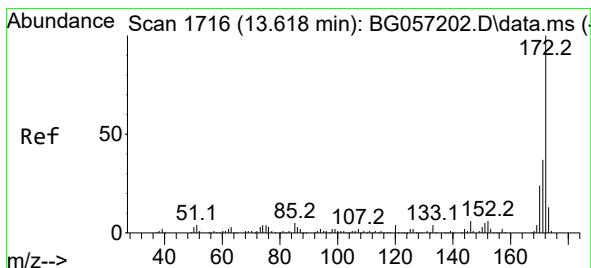
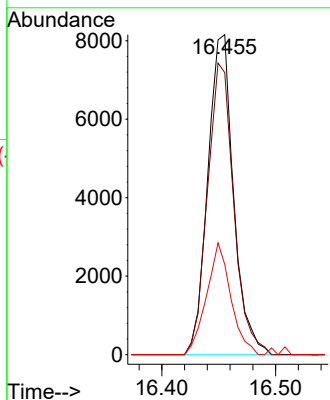
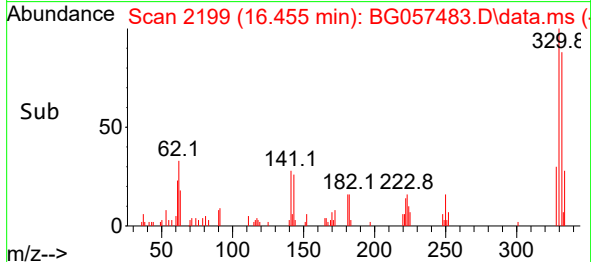


#42
2,4,6-Tribromophenol
Concen: 13.820 ng
RT: 16.455 min Scan# 2199
Delta R.T. -0.001 min
Lab File: BG057483.D
Acq: 20 May 2023 1:46

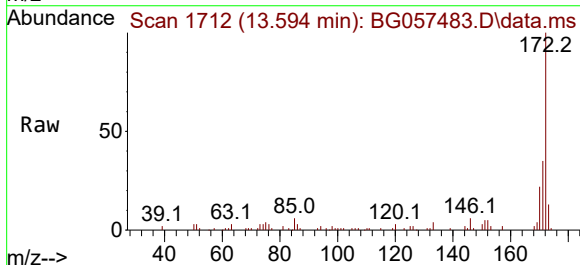
Instrument :
BNA_G
ClientSampleId :
EO-01-051823



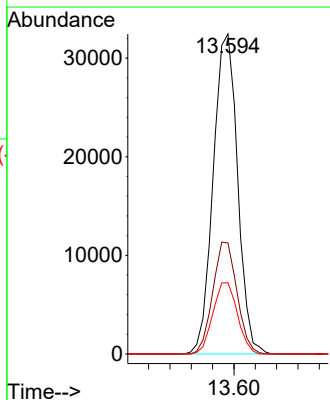
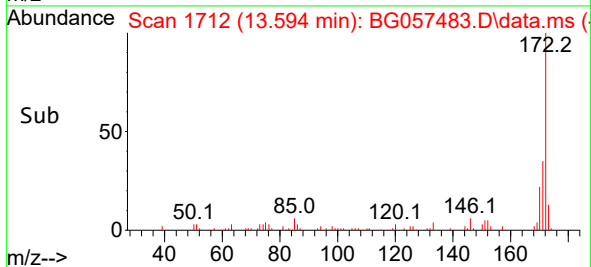
Tgt Ion:330 Resp: 12828
Ion Ratio Lower Upper
330 100
332 92.9 78.2 117.2
141 33.0 27.8 41.8

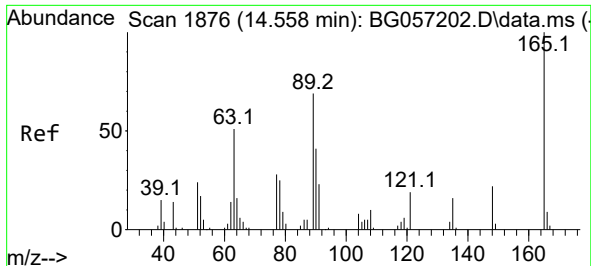


#45
2-Fluorobiphenyl
Concen: 10.598 ng
RT: 13.594 min Scan# 1712
Delta R.T. -0.007 min
Lab File: BG057483.D
Acq: 20 May 2023 1:46



Tgt Ion:172 Resp: 51477
Ion Ratio Lower Upper
172 100
171 34.7 29.4 44.0
170 22.2 19.0 28.6





#51

2,6-Dinitrotoluene

Concen: 8.032 ng

RT: 14.969 min Scan# 1946

Delta R.T. 0.428 min

Lab File: BG057483.D

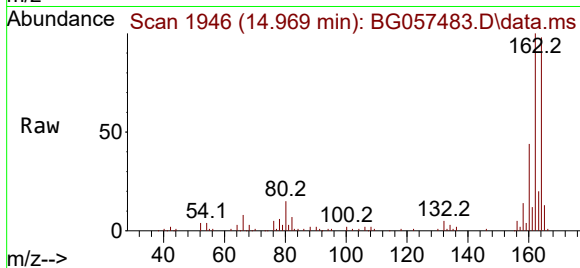
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Instrument :

BNA_G

ClientSampleId :

EO-01-051823



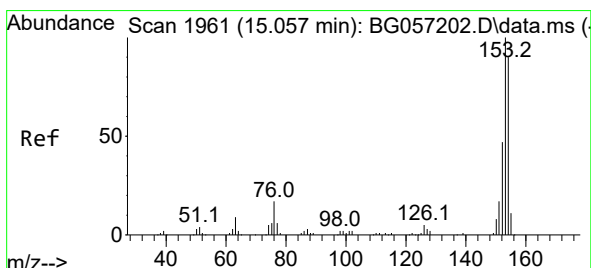
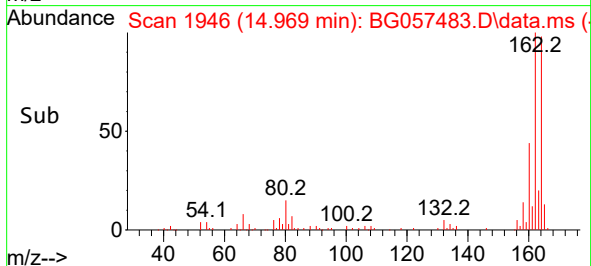
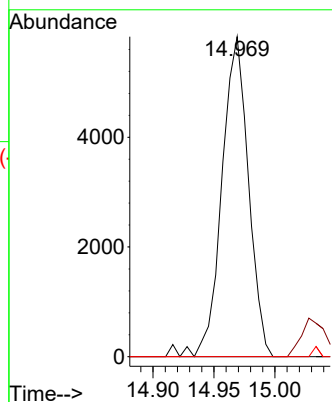
Tgt Ion:165 Resp: 8816

Ion Ratio Lower Upper

165 100

63 0.0 50.9 76.3#

89 0.0 55.2 82.8#



#52

Acenaphthene

Concen: 3.097 ng

RT: 15.034 min Scan# 1957

Delta R.T. -0.001 min

Lab File: BG057483.D

Acq: 20 May 2023 1:46

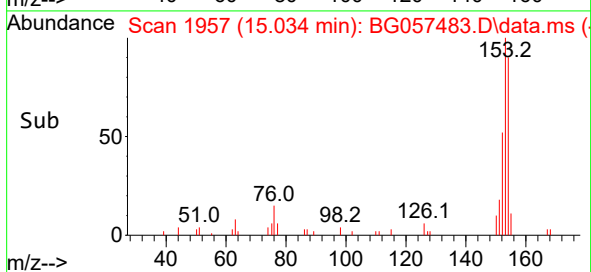
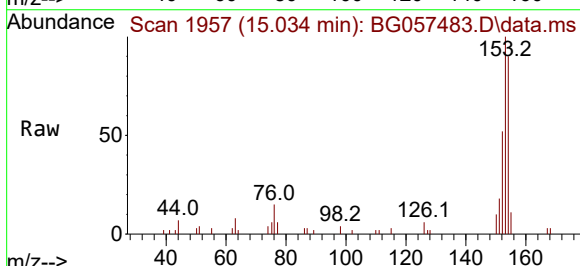
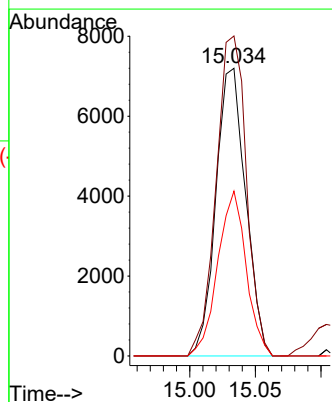
Tgt Ion:154 Resp: 11350

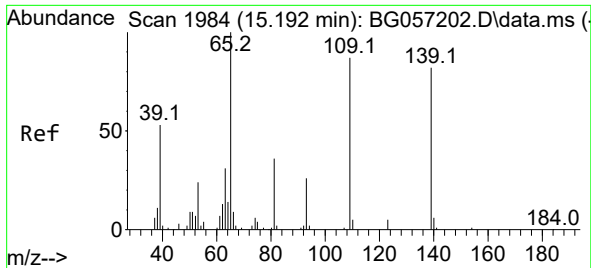
Ion Ratio Lower Upper

154 100

153 111.2 89.3 133.9

152 57.3 41.7 62.5

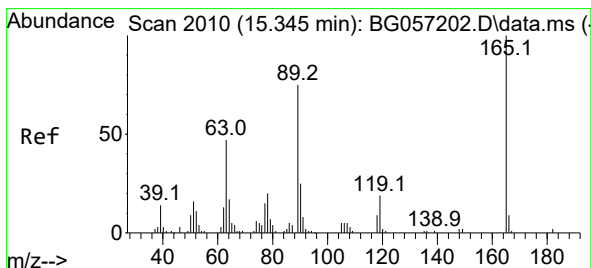
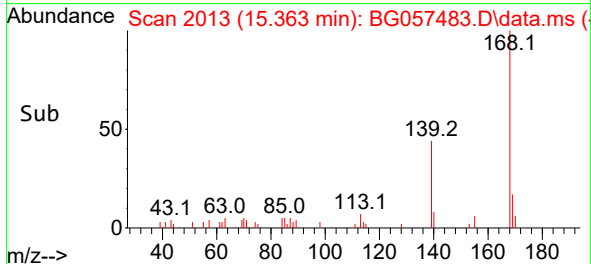
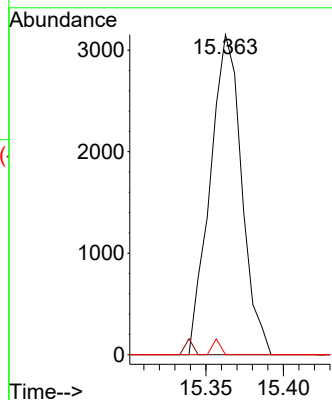
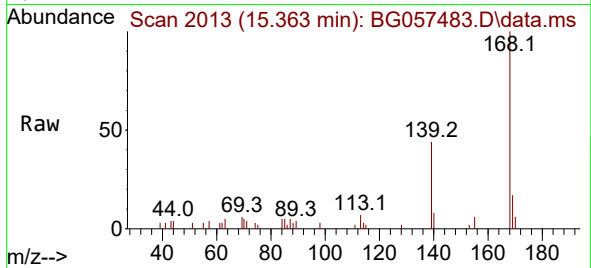




#56
4-Nitrophenol
Concen: 6.105 ng
RT: 15.363 min Scan# 20
Delta R.T. 0.181 min
Lab File: BG057483.D
Acq: 20 May 2023 1:46

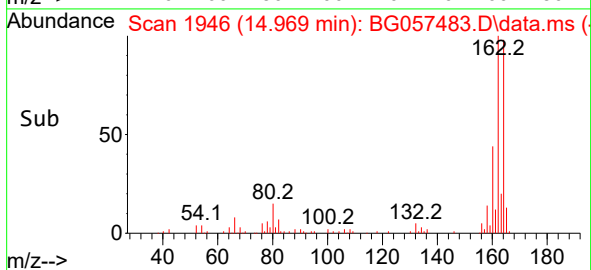
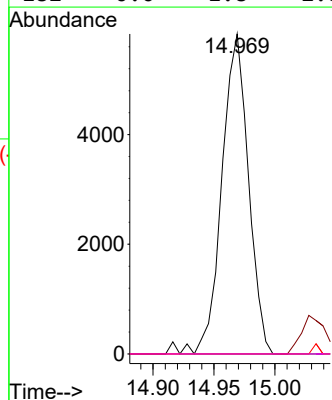
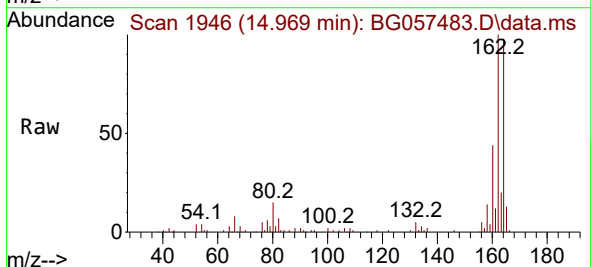
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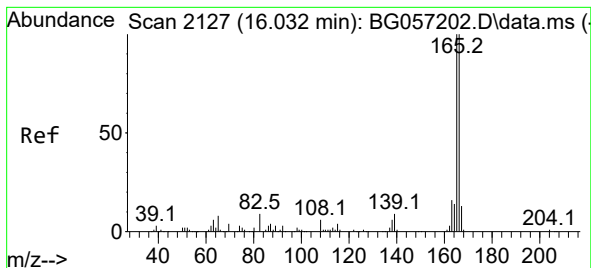
Tgt Ion:139 Resp: 4465
Ion Ratio Lower Upper
139 100
109 0.0 86.6 126.6#
65 0.0 102.6 142.6#



#57
2,4-Dinitrotoluene
Concen: 5.620 ng
RT: 14.969 min Scan# 1946
Delta R.T. -0.360 min
Lab File: BG057483.D
Acq: 20 May 2023 1:46

Tgt Ion:165 Resp: 8816
Ion Ratio Lower Upper
165 100
63 0.0 37.5 56.3#
89 0.0 60.2 90.4#
182 0.0 1.8 2.8#





#58

Fluorene

Concen: 2.916 ng

RT: 16.009 min Scan# 2127

Delta R.T. -0.007 min

Lab File: BG057483.D

Acq: 20 May 2023 1:46

Instrument :

BNA_G

ClientSampleId :

EO-01-051823

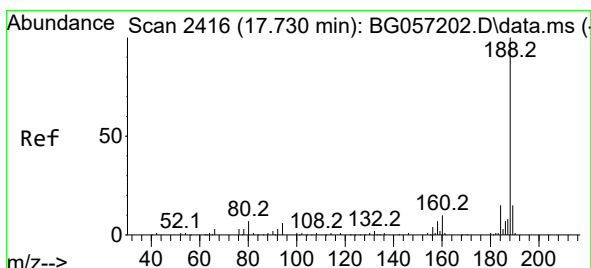
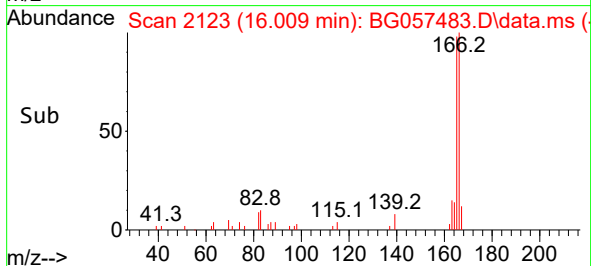
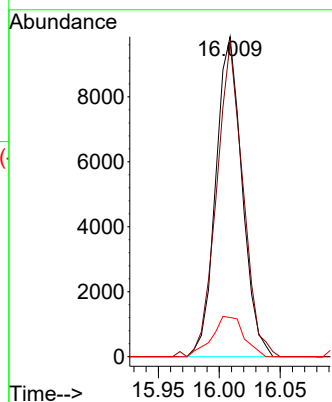
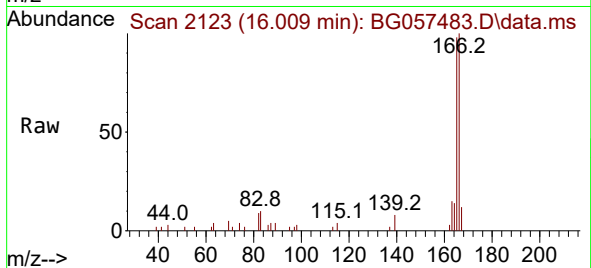
Tgt Ion:166 Resp: 14791

Ion Ratio Lower Upper

166 100

165 98.2 80.1 120.1

167 12.3 10.2 15.2



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.706 min Scan# 2412

Delta R.T. -0.007 min

Lab File: BG057483.D

Acq: 20 May 2023 1:46

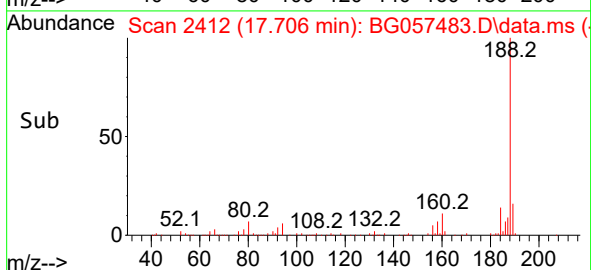
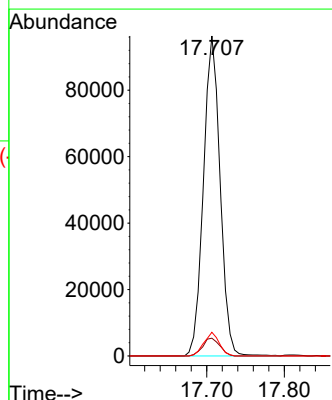
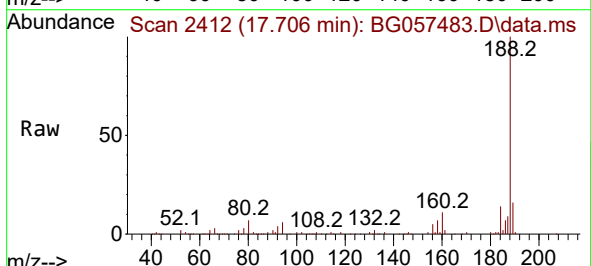
Tgt Ion:188 Resp: 143724

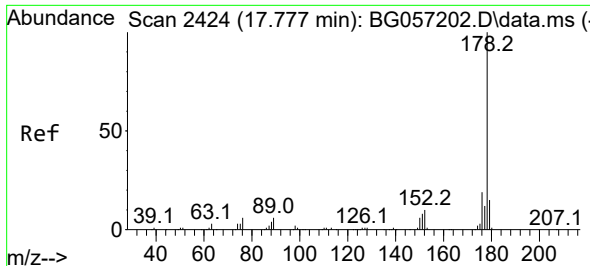
Ion Ratio Lower Upper

188 100

94 5.6 5.1 7.7

80 7.4 5.7 8.5

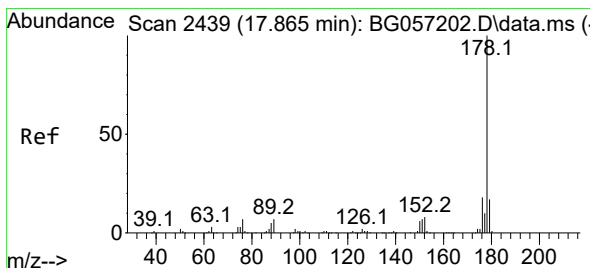
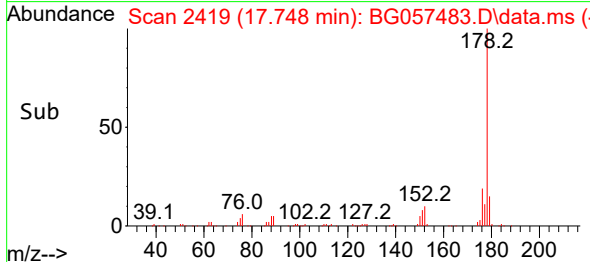
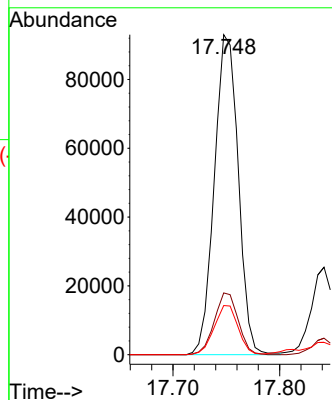
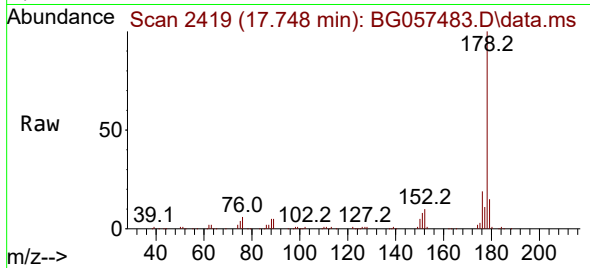




#71
Phenanthrene
Concen: 19.659 ng
RT: 17.748 min Scan# 24
Delta R.T. -0.007 min
Lab File: BG057483.D
Acq: 20 May 2023 1:46

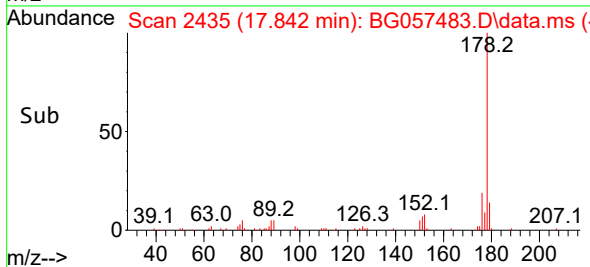
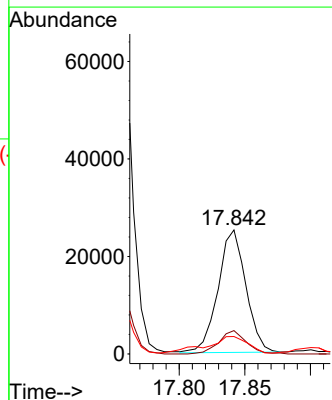
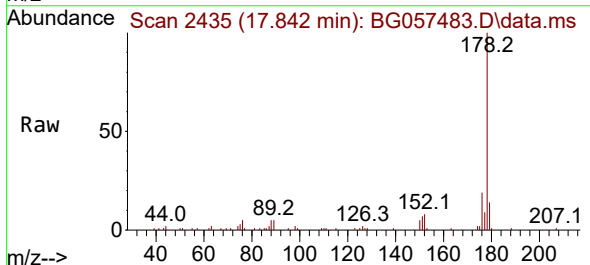
Instrument :
BNA_G
ClientSampleId :
EO-01-051823

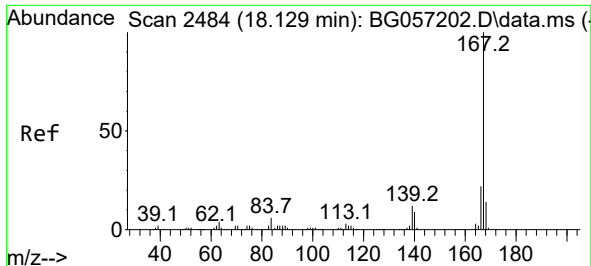
Tgt Ion:178 Resp: 144779
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.2
179 15.3 12.3 18.5



#72
Anthracene
Concen: 4.909 ng
RT: 17.842 min Scan# 2435
Delta R.T. -0.007 min
Lab File: BG057483.D
Acq: 20 May 2023 1:46

Tgt Ion:178 Resp: 37100
Ion Ratio Lower Upper
178 100
176 18.9 14.7 22.1
179 14.1 13.2 19.8

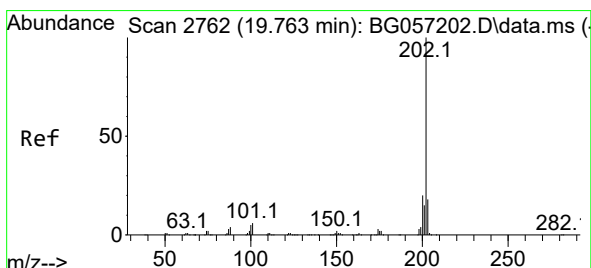
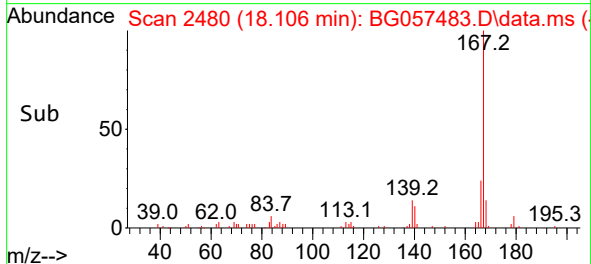
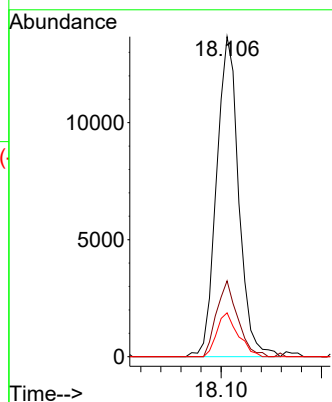
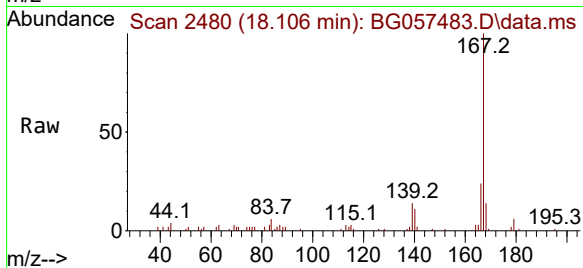




#73
 Carbazole
 Concen: 3.292 ng
 RT: 18.106 min Scan# 24
 Delta R.T. -0.007 min
 Lab File: BG057483.D
 Acq: 20 May 2023 1:46

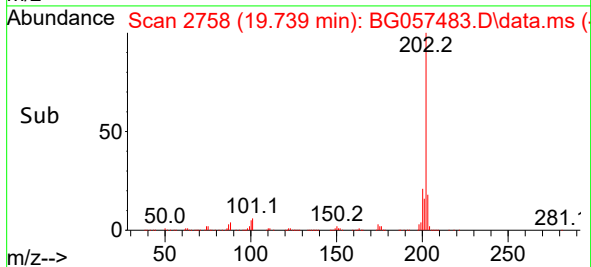
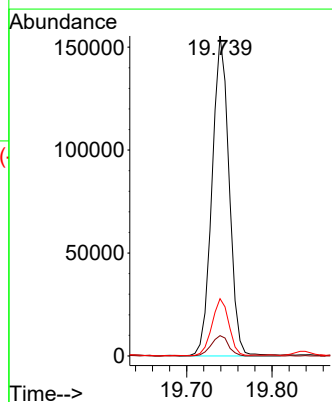
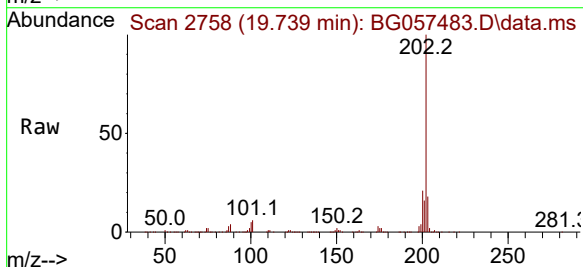
Instrument :
 BNA_G
 ClientSampleId :
 EO-01-051823

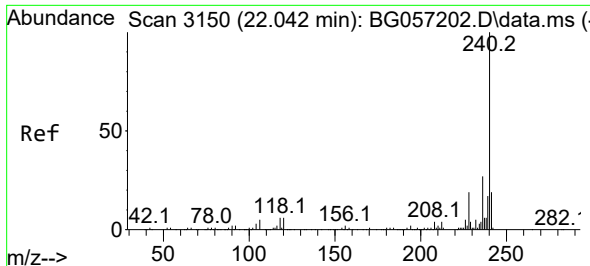
Tgt Ion:167 Resp: 20942
 Ion Ratio Lower Upper
 167 100
 166 23.7 17.4 26.0
 139 13.7 9.6 14.4



#75
 Fluoranthene
 Concen: 23.584 ng
 RT: 19.739 min Scan# 2758
 Delta R.T. -0.007 min
 Lab File: BG057483.D
 Acq: 20 May 2023 1:46

Tgt Ion:202 Resp: 216024
 Ion Ratio Lower Upper
 202 100
 101 6.4 0.0 26.2
 203 17.9 0.0 37.9

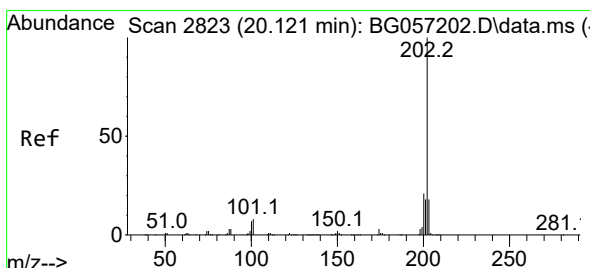
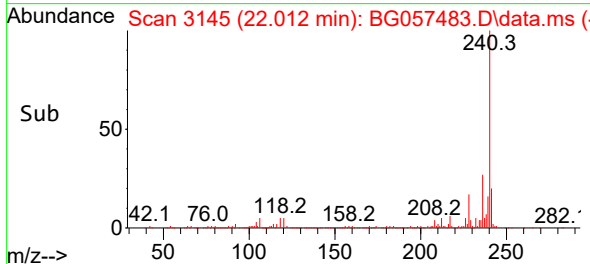
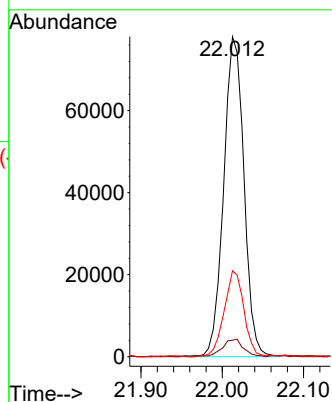
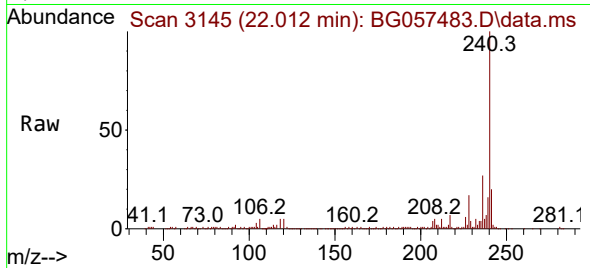




#76
Chrysene-d12
Concen: 20.000 ng
RT: 22.012 min Scan# 3150
Delta R.T. -0.007 min
Lab File: BG057483.D
Acq: 20 May 2023 1:46

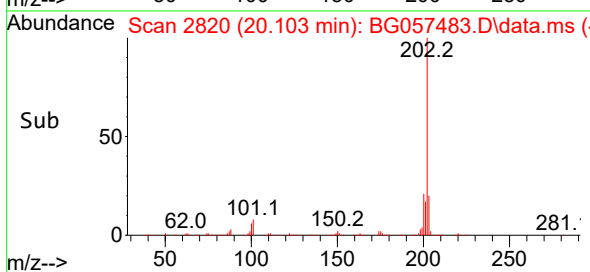
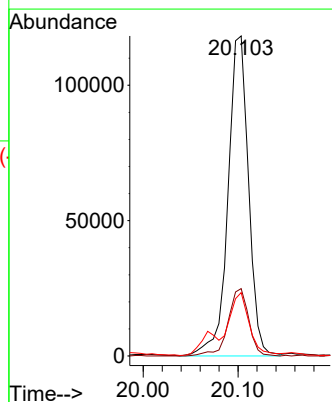
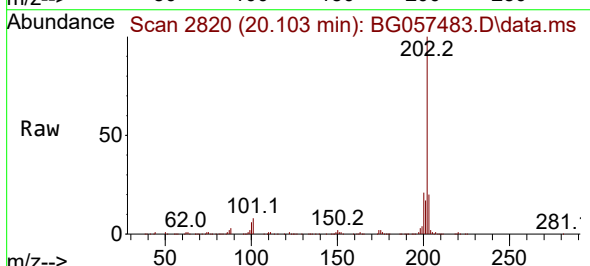
Instrument :
BNA_G
ClientSampleId :
EO-01-051823

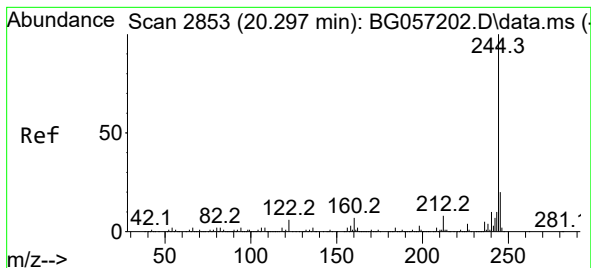
Tgt Ion:240 Resp: 135519
Ion Ratio Lower Upper
240 100
120 5.2 4.9 7.3
236 26.8 21.4 32.2



#78
Pyrene
Concen: 18.104 ng
RT: 20.103 min Scan# 2820
Delta R.T. -0.001 min
Lab File: BG057483.D
Acq: 20 May 2023 1:46

Tgt Ion:202 Resp: 178277
Ion Ratio Lower Upper
202 100
200 21.1 17.0 25.4
203 19.8 14.2 21.4





#79

Terphenyl-d14

Concen: 9.440 ng

RT: 20.274 min Scan# 21

Delta R.T. -0.007 min

Lab File: BG057483.D

Acq: 20 May 2023 1:46

Instrument :

BNA_G

ClientSampleId :

EO-01-051823

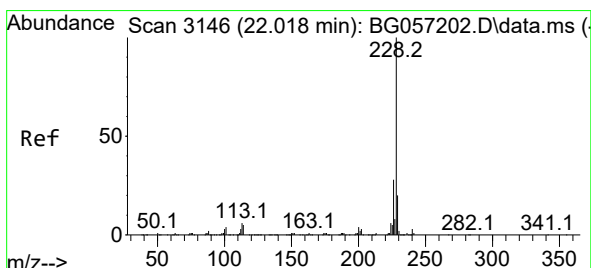
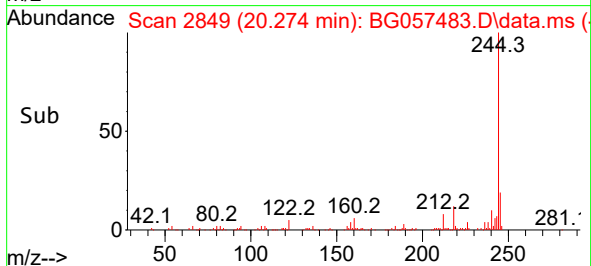
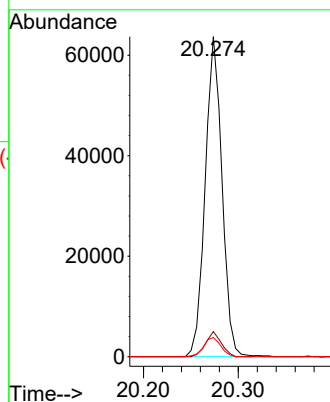
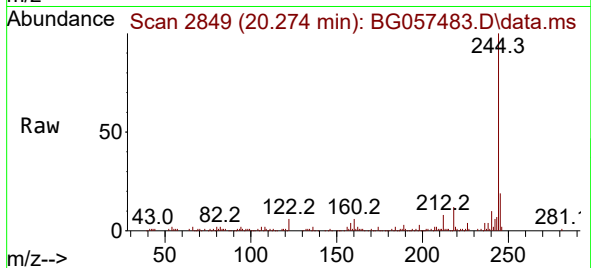
Tgt Ion:244 Resp: 78390

Ion Ratio Lower Upper

244 100

212 7.9 6.1 9.1

122 6.0 5.1 7.7



#81

Benzo(a)anthracene

Concen: 10.389 ng

RT: 21.995 min Scan# 3142

Delta R.T. -0.001 min

Lab File: BG057483.D

Acq: 20 May 2023 1:46

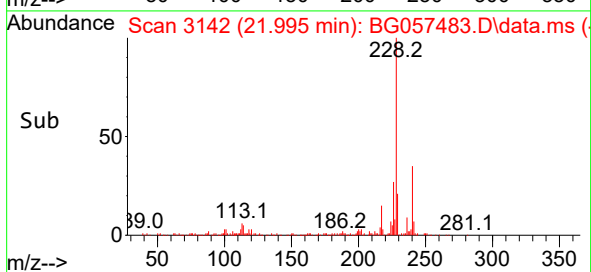
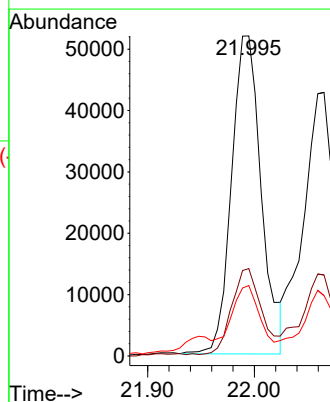
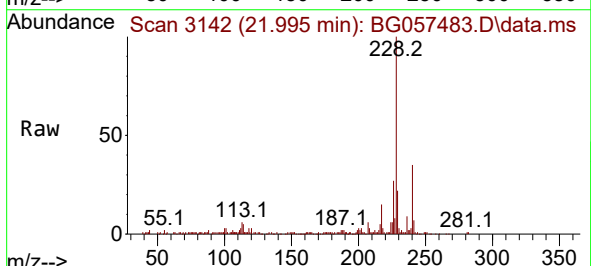
Tgt Ion:228 Resp: 100307

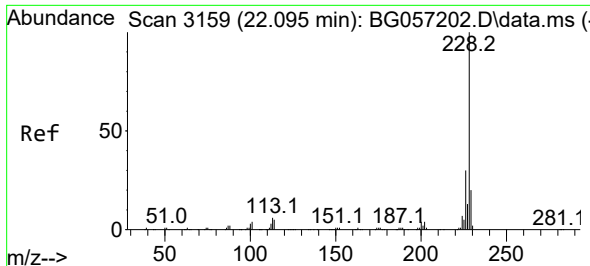
Ion Ratio Lower Upper

228 100

226 27.3 22.0 33.0

229 22.0 15.8 23.8

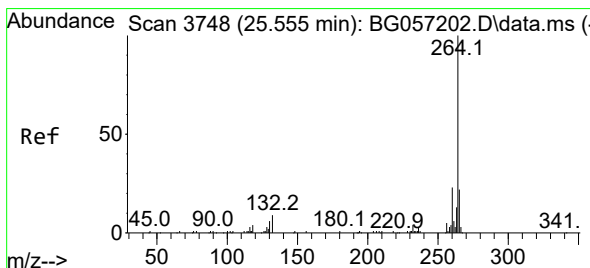
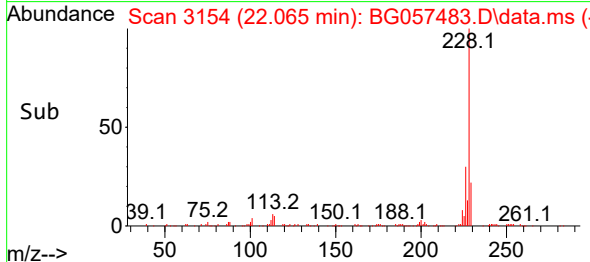
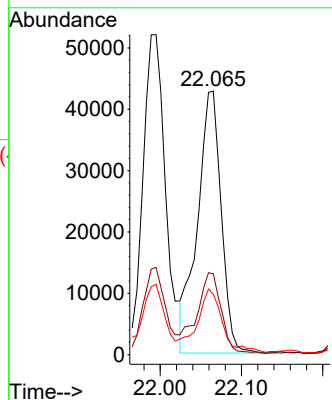
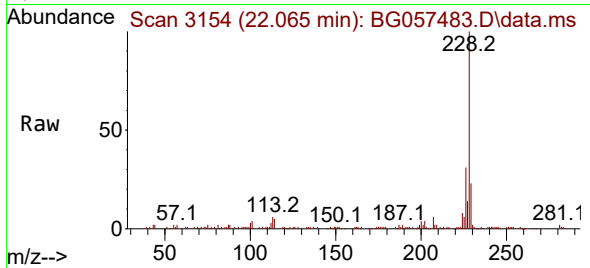




#83
Chrysene
Concen: 9.608 ng
RT: 22.065 min Scan# 3159
Delta R.T. -0.007 min
Lab File: BG057483.D
Acq: 20 May 2023 1:46

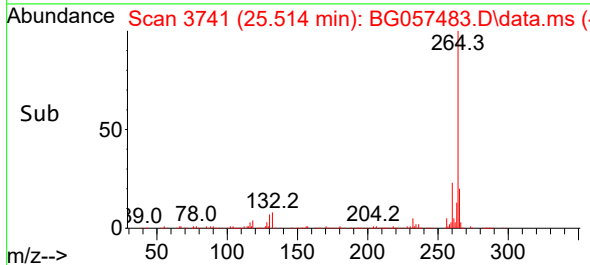
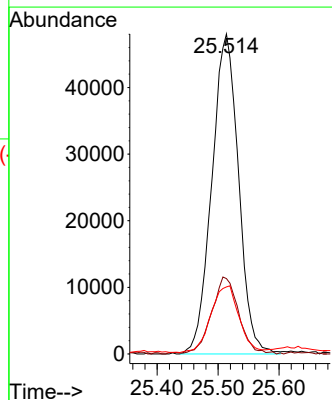
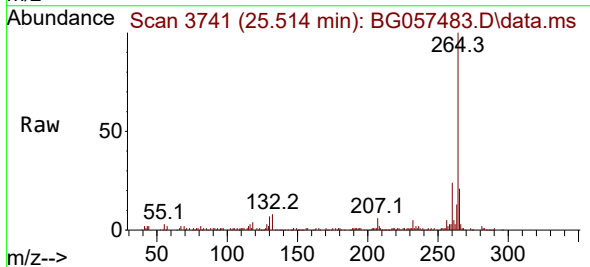
Instrument :
BNA_G
ClientSampleId :
EO-01-051823

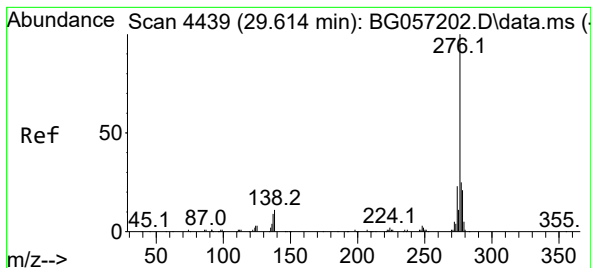
Tgt Ion:228 Resp: 87282
Ion Ratio Lower Upper
228 100
226 30.7 24.3 36.5
229 22.9 15.9 23.9



#86
Perylene-d12
Concen: 20.000 ng
RT: 25.514 min Scan# 3741
Delta R.T. -0.001 min
Lab File: BG057483.D
Acq: 20 May 2023 1:46

Tgt Ion:264 Resp: 146297
Ion Ratio Lower Upper
264 100
260 23.5 18.8 28.2
265 20.9 17.9 26.9





#87

Indeno(1,2,3-cd)pyrene

Concen: 4.949 ng

RT: 29.549 min Scan# 4428

Delta R.T. -0.013 min

Lab File: BG057483.D

Acq: 20 May 2023 1:46

Instrument :

BNA_G

ClientSampleId :

EO-01-051823

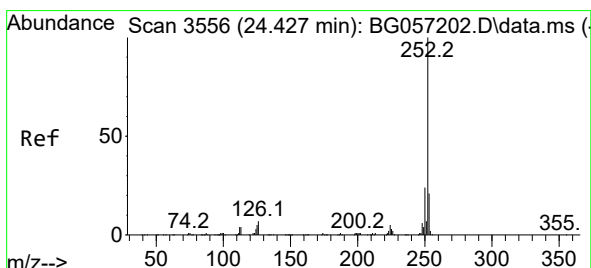
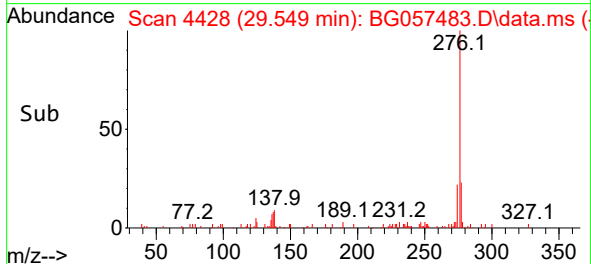
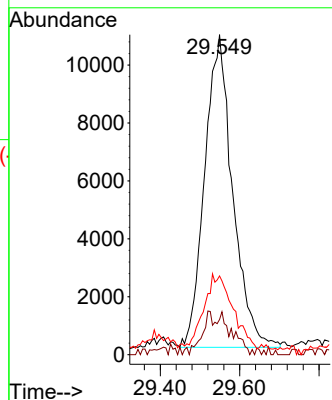
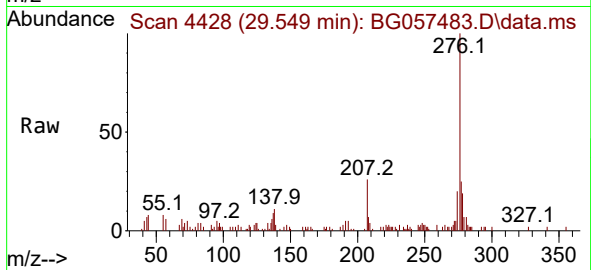
Tgt Ion:276 Resp: 52763

Ion Ratio Lower Upper

276 100

138 0.0 5.4 8.0#

277 0.0 20.6 30.8#



#88

Benzo(b)fluoranthene

Concen: 11.903 ng

RT: 24.392 min Scan# 3550

Delta R.T. -0.001 min

Lab File: BG057483.D

Acq: 20 May 2023 1:46

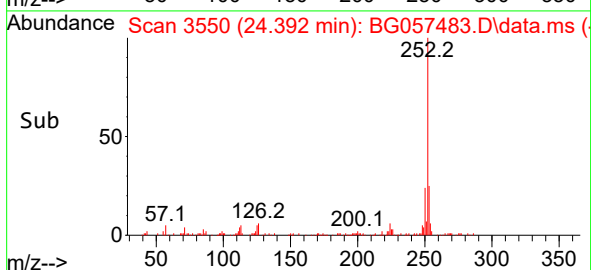
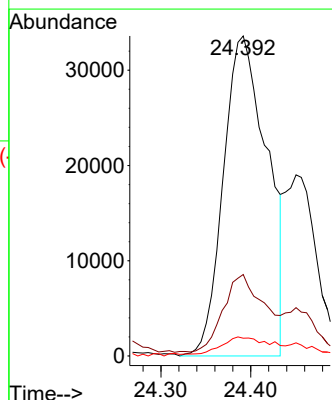
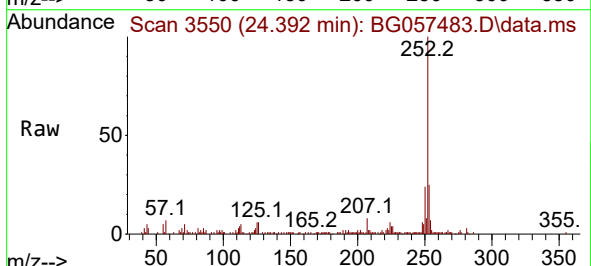
Tgt Ion:252 Resp: 113830

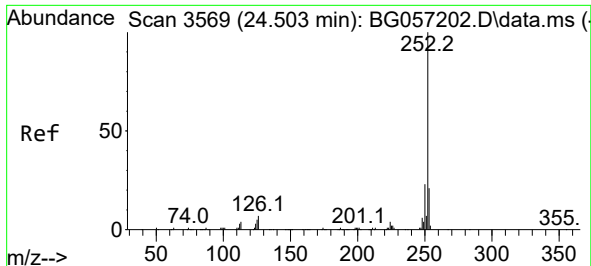
Ion Ratio Lower Upper

252 100

253 25.5 17.0 25.6

125 5.5 4.2 6.2

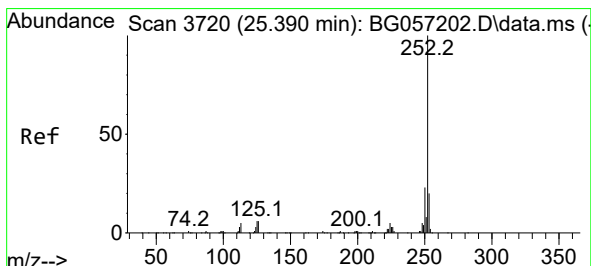
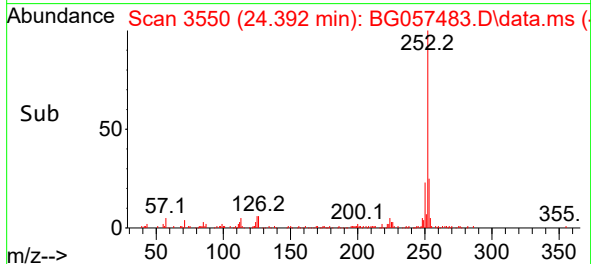
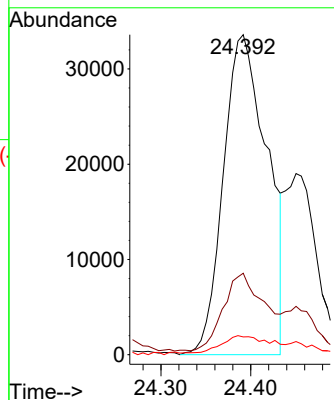
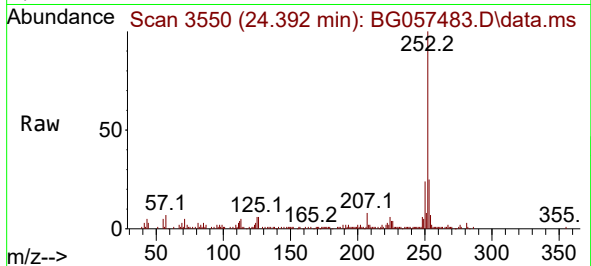




#89
Benzo(k)fluoranthene
Concen: 11.713 ng
RT: 24.392 min Scan# 311
Delta R.T. -0.078 min
Lab File: BG057483.D
Acq: 20 May 2023 1:46

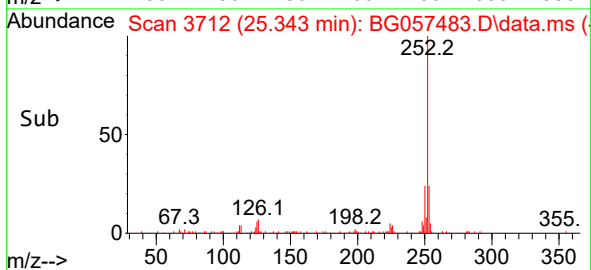
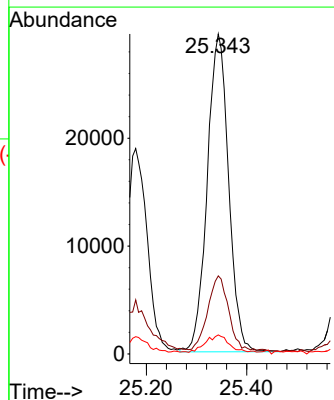
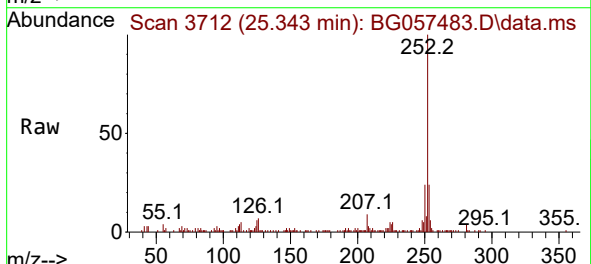
Instrument :
BNA_G
ClientSampleId :
EO-01-051823

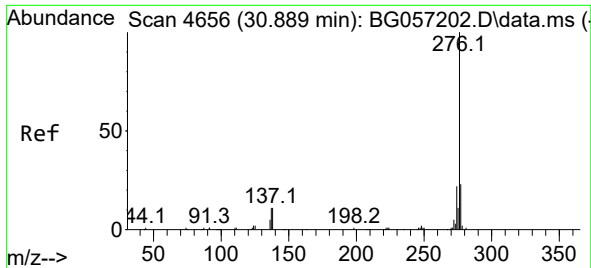
Tgt Ion:252 Resp: 113830
Ion Ratio Lower Upper
252 100
253 25.5 17.4 26.0
125 5.5 4.1 6.1



#90
Benzo(a)pyrene
Concen: 9.313 ng
RT: 25.343 min Scan# 3712
Delta R.T. -0.013 min
Lab File: BG057483.D
Acq: 20 May 2023 1:46

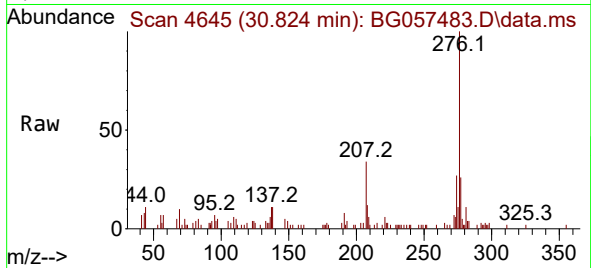
Tgt Ion:252 Resp: 87015
Ion Ratio Lower Upper
252 100
253 24.4 16.3 24.5
125 5.9 5.0 7.4





#92
 Benzo(g,h,i)perylene
 Concen: 6.061 ng
 RT: 30.824 min Scan# 4
 Delta R.T. -0.013 min
 Lab File: BG057483.D
 Acq: 20 May 2023 1:46

Instrument :
 BNA_G
 ClientSampleId :
 EO-01-051823



Tgt Ion:	276	Resp:	52546
Ion	Ratio	Lower	Upper
276	100		
277	25.8	18.4	27.6
138	11.1	9.0	13.4

