

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG052223\
 Data File : BG057505.D
 Acq On : 22 May 2023 22:47
 Operator : CG/JU
 Sample : 02871-01
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 ETGI-367

Quant Time: May 23 04:08:28 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)

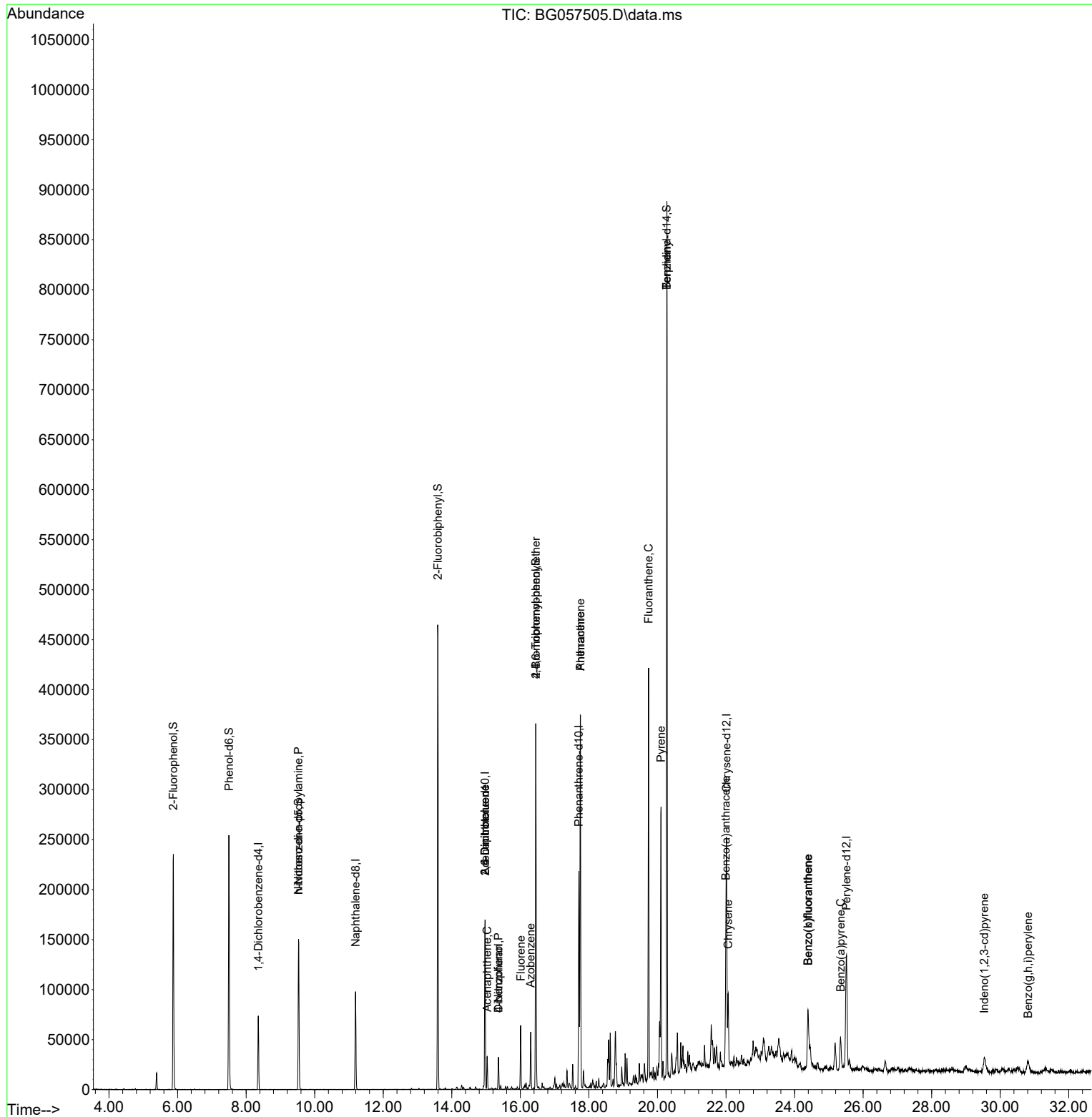
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.355	152	22055	20.000	ng	0.00
21) Naphthalene-d8	11.193	136	86494	20.000	ng	# 0.00
39) Acenaphthene-d10	14.970	164	62467	20.000	ng	0.00
64) Phenanthrene-d10	17.707	188	144856	20.000	ng	0.00
76) Chrysene-d12	22.013	240	132151	20.000	ng	0.00
86) Perylene-d12	25.515	264	142004	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.876	112	105769	82.036	ng	0.00
7) Phenol-d6	7.498	99	156972	80.175	ng	0.00
23) Nitrobenzene-d5	9.530	82	99627	48.343	ng	0.00
42) 2,4,6-Tribromophenol	16.450	330	71215	80.347	ng	0.00
45) 2-Fluorobiphenyl	13.589	172	253350	54.623	ng	-0.01
79) Terphenyl-d14	20.275	244	435484	53.778	ng	0.00
Target Compounds						Qvalue
9) Benzaldehyde	7.498	77	143	Below Cal	#	4
19) n-Nitroso-di-n-propyla...	9.530	70	13430	8.996	ng	# 78
51) 2,6-Dinitrotoluene	14.970	165	8724	8.324	ng	# 17
52) Acenaphthene	15.035	154	12376	3.537	ng	98
55) Dibenzofuran	15.364	168	22003	3.742	ng	95
56) 4-Nitrophenol	15.364	139	8026	11.493	ng	# 1
57) 2,4-Dinitrotoluene	14.970	165	8724	5.824	ng	# 20
58) Fluorene	16.010	166	28846	5.956	ng	95
63) Azobenzene	16.303	77	12843	2.553	ng	# 1
67) 4-Bromophenyl-phenylether	16.450	248	5072	2.868	ng	# 1
71) Phenanthrene	17.754	178	257293	34.663	ng	100
72) Anthracene	17.754	178	257293	33.782	ng	97
75) Fluoranthene	19.740	202	270336	29.283	ng	98
77) Benzidine	20.275	184	6685	2.263	ng	# 91
78) Pyrene	20.104	202	187676	19.544	ng	99
81) Benzo(a)anthracene	21.996	228	61572	6.540	ng	99
83) Chrysene	22.066	228	62402	7.044	ng	98
87) Indeno(1,2,3-cd)pyrene	29.533	276	27025	2.611	ng	# 97
88) Benzo(b)fluoranthene	24.392	252	62692	6.754	ng	# 98
89) Benzo(k)fluoranthene	24.392	252	62692	6.646	ng	# 98
90) Benzo(a)pyrene	25.344	252	39916	4.401	ng	# 98
92) Benzo(g,h,i)perylene	30.813	276	25447	3.024	ng	97

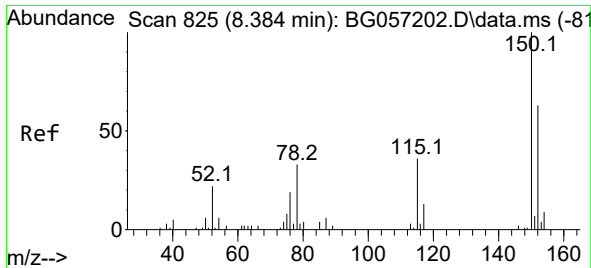
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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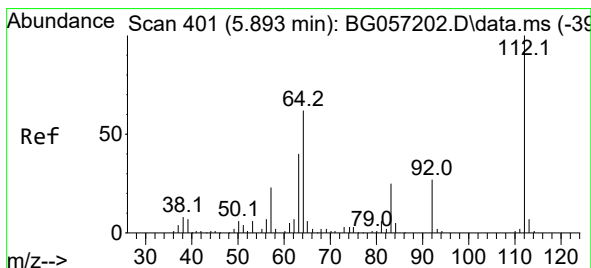
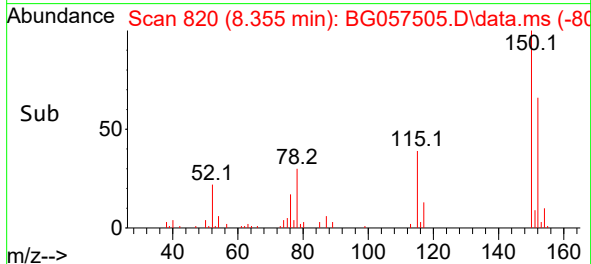
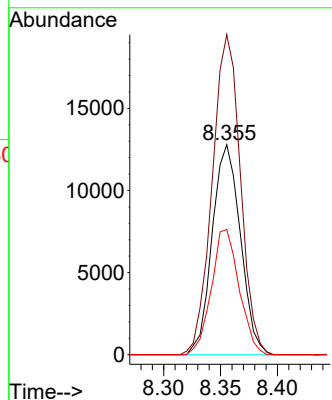
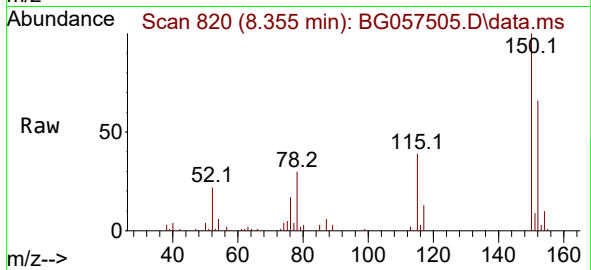




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.355 min Scan# 81
Delta R.T. -0.007 min
Lab File: BG057505.D
Acq: 22 May 2023 22:47

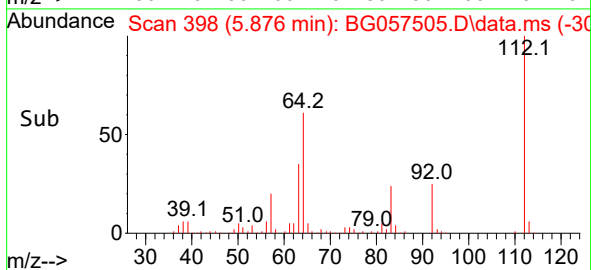
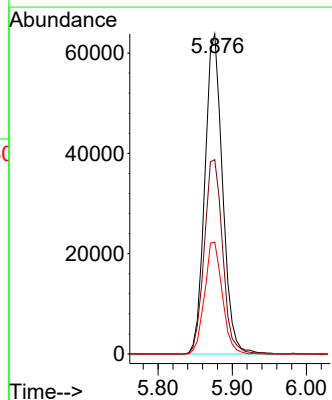
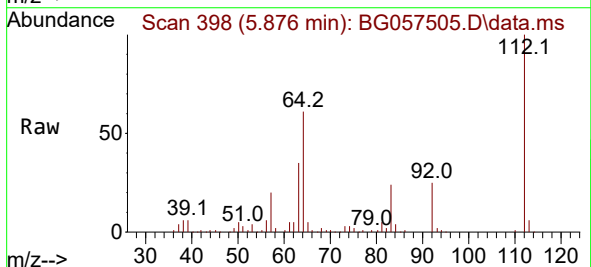
Instrument :
BNA_G
ClientSampleId :
ETGI-367

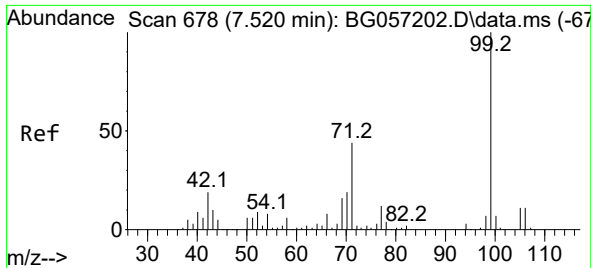
Tgt Ion:152 Resp: 22055
Ion Ratio Lower Upper
152 100
150 152.3 126.2 189.4
115 59.6 45.0 67.4



#5
2-Fluorophenol
Concen: 82.036 ng
RT: 5.876 min Scan# 398
Delta R.T. 0.005 min
Lab File: BG057505.D
Acq: 22 May 2023 22:47

Tgt Ion:112 Resp: 105769
Ion Ratio Lower Upper
112 100
64 60.7 49.4 74.2
63 35.0 31.6 47.4

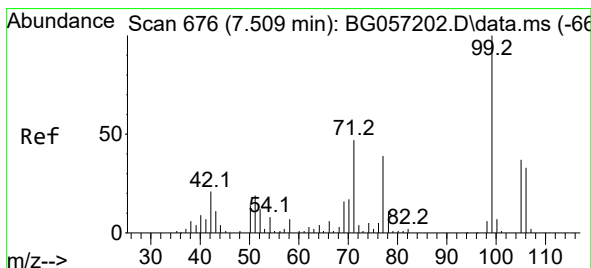
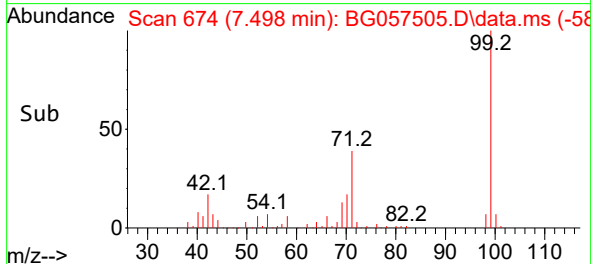
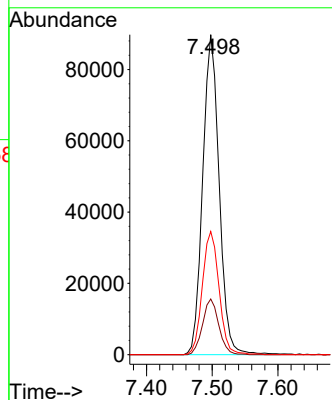
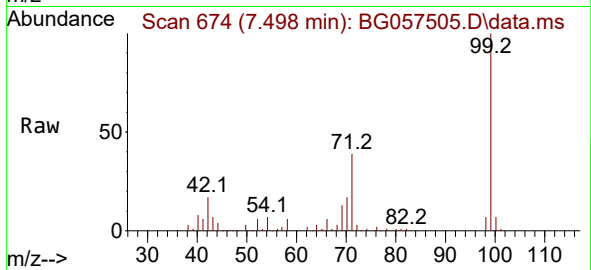




#7
Phenol-d6
Concen: 80.175 ng
RT: 7.498 min Scan# 61
Delta R.T. -0.000 min
Lab File: BG057505.D
Acq: 22 May 2023 22:47

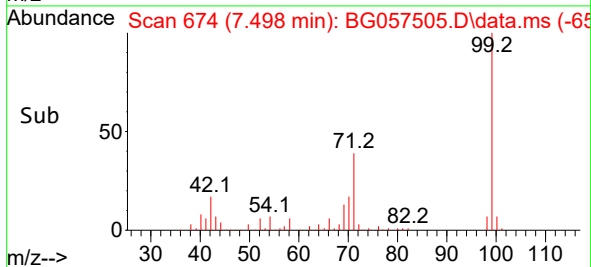
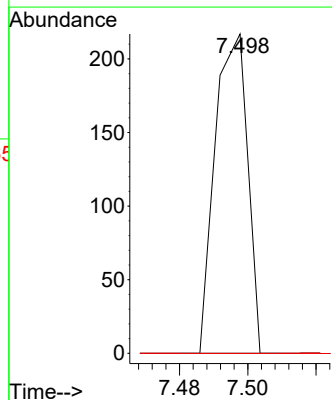
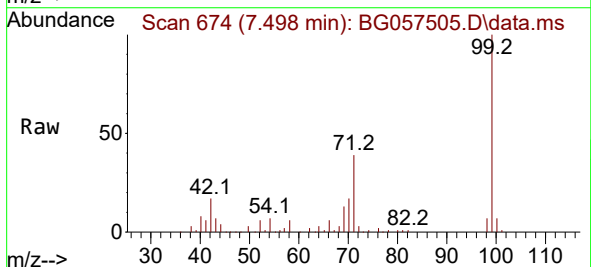
Instrument :
BNA_G
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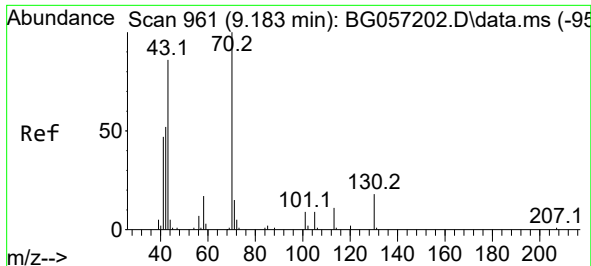
Tgt Ion: 99 Resp: 156972
Ion Ratio Lower Upper
99 100
42 17.4 15.1 22.7
71 38.5 35.2 52.8



#9
Benzaldehyde
Concen: Below Cal
RT: 7.498 min Scan# 674
Delta R.T. 0.011 min
Lab File: BG057505.D
Acq: 22 May 2023 22:47

Tgt Ion: 77 Resp: 143
Ion Ratio Lower Upper
77 100
105 0.0 74.6 114.6#
106 0.0 66.3 106.3#

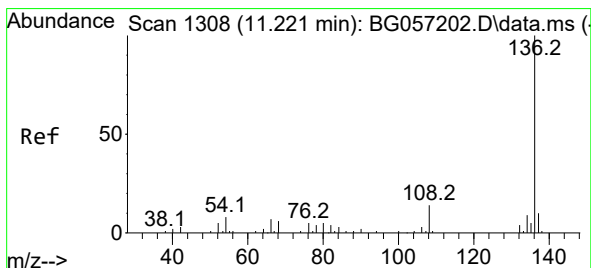
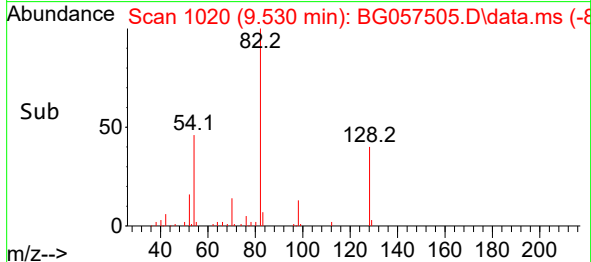
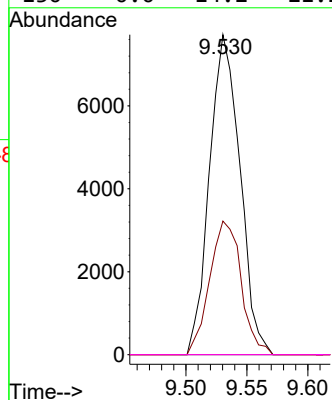
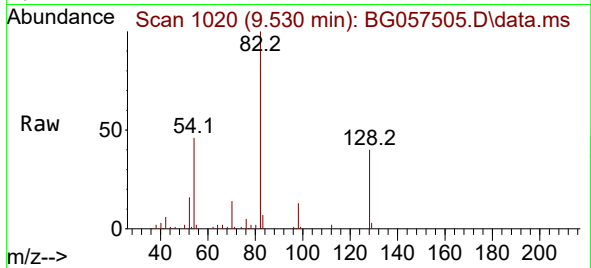




#19
n-Nitroso-di-n-propylamine
Concen: 8.996 ng
RT: 9.530 min Scan# 1020
Delta R.T. 0.370 min
Lab File: BG057505.D
Acq: 22 May 2023 22:47

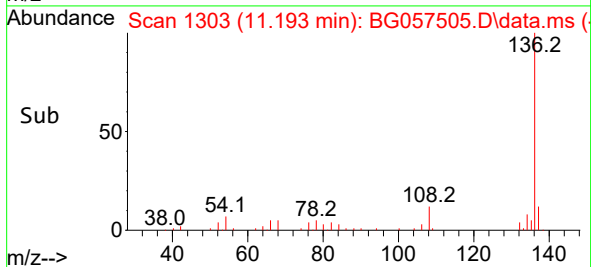
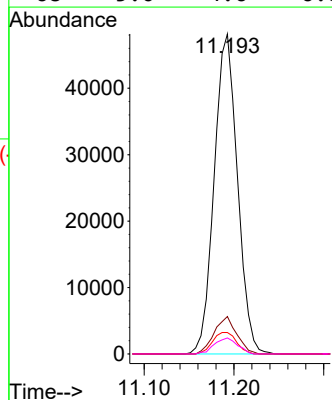
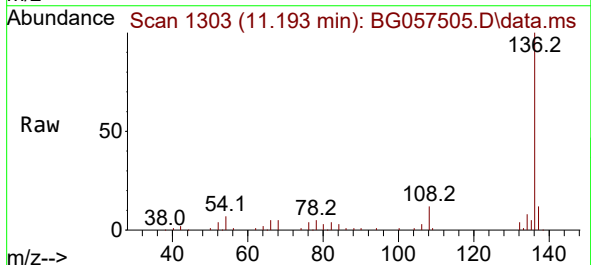
Instrument :
BNA_G
ClientSampleId :
ETGI-367

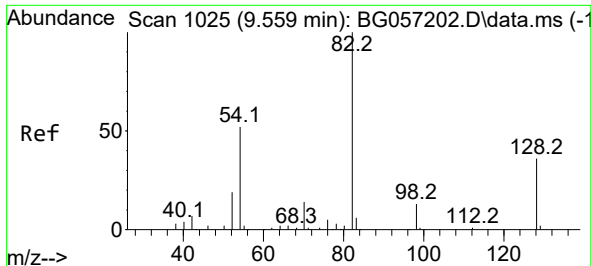
Tgt Ion:	70	Resp:	13430
Ion Ratio	Lower	Upper	
70	100		
42	41.7	41.8	62.8#
101	0.0	6.8	10.2#
130	0.0	14.2	21.2#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.193 min Scan# 1303
Delta R.T. -0.006 min
Lab File: BG057505.D
Acq: 22 May 2023 22:47

Tgt Ion:	136	Resp:	86494
Ion Ratio	Lower	Upper	
136	100		
137	11.7	8.3	12.5
54	6.7	6.7	10.1#
68	5.0	4.6	6.8

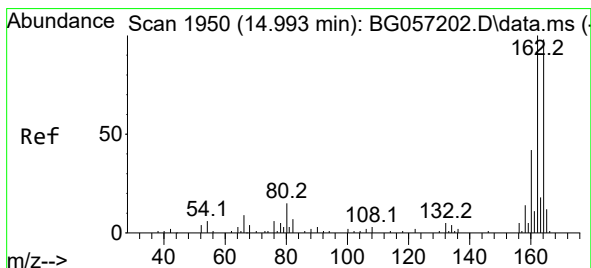
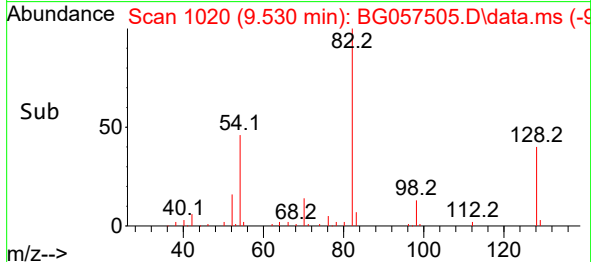
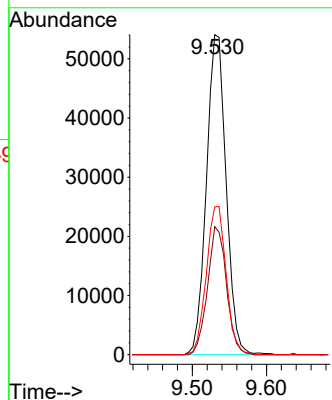
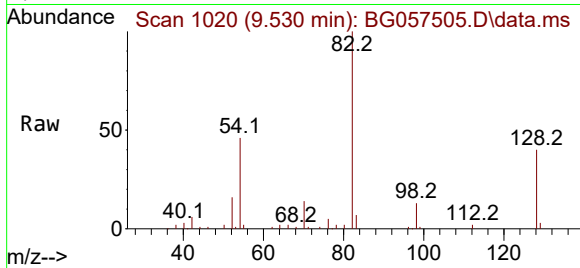




#23
Nitrobenzene-d5
Concen: 48.343 ng
RT: 9.530 min Scan# 1025
Delta R.T. -0.006 min
Lab File: BG057505.D
Acq: 22 May 2023 22:47

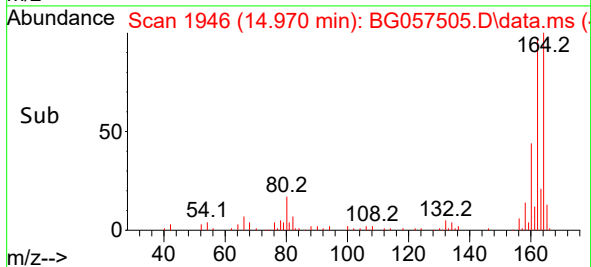
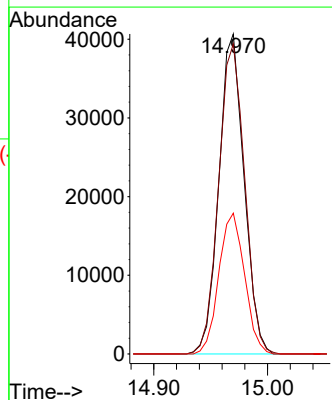
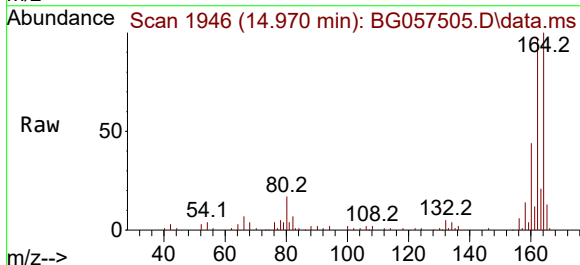
Instrument :
BNA_G
ClientSampleId :
ETGI-367

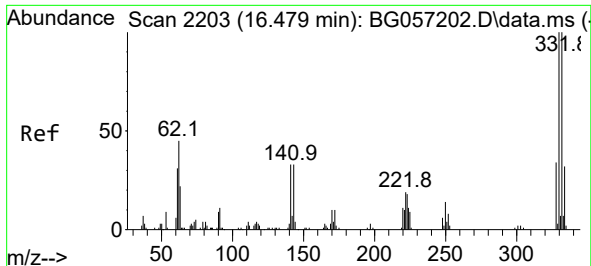
Tgt Ion: 82 Resp: 99627
Ion Ratio Lower Upper
82 100
128 40.0 29.0 43.4
54 46.2 41.4 62.0



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.970 min Scan# 1946
Delta R.T. -0.006 min
Lab File: BG057505.D
Acq: 22 May 2023 22:47

Tgt Ion:164 Resp: 62467
Ion Ratio Lower Upper
164 100
162 96.9 81.8 122.6
160 44.0 34.6 52.0

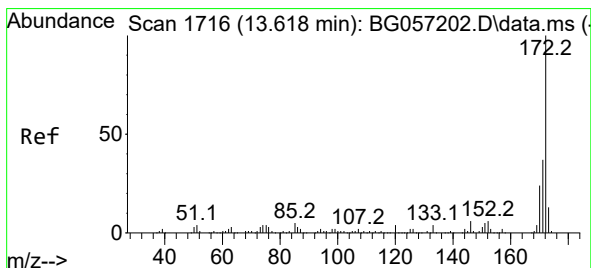
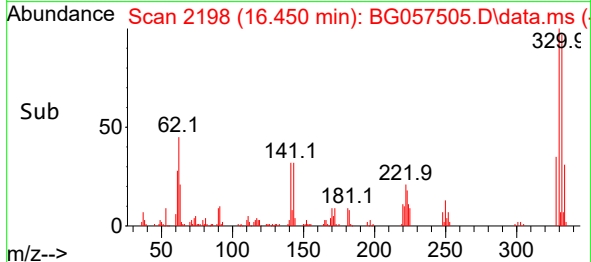
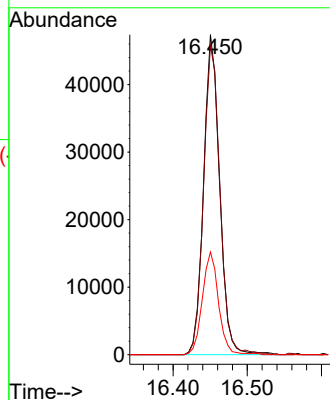
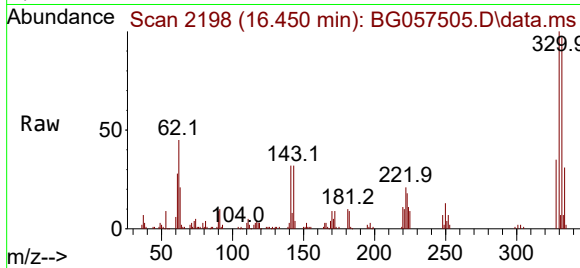




#42
2,4,6-Tribromophenol
Concen: 80.347 ng
RT: 16.450 min Scan# 21198
Delta R.T. -0.006 min
Lab File: BG057505.D
Acq: 22 May 2023 22:47

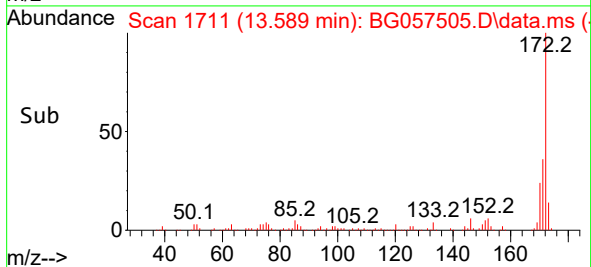
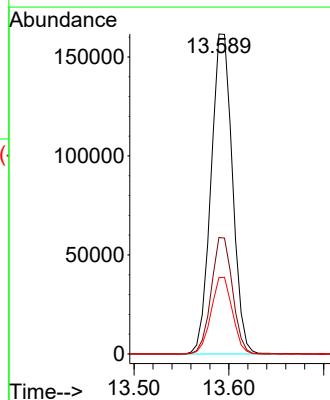
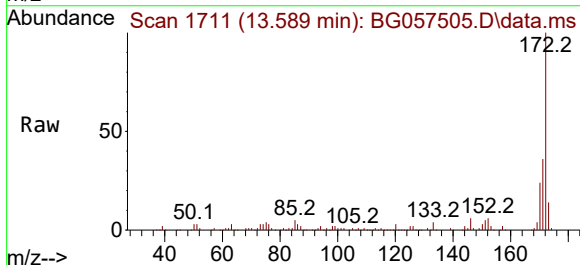
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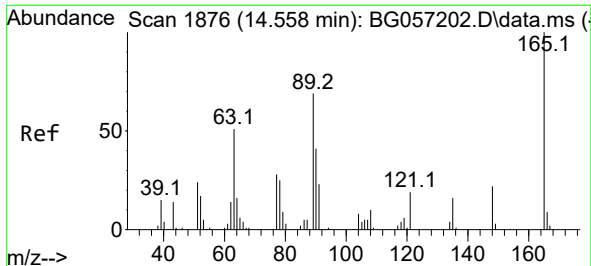
Tgt Ion:330 Resp: 71215
Ion Ratio Lower Upper
330 100
332 98.9 78.2 117.2
141 32.4 27.8 41.8



#45
2-Fluorobiphenyl
Concen: 54.623 ng
RT: 13.589 min Scan# 1711
Delta R.T. -0.012 min
Lab File: BG057505.D
Acq: 22 May 2023 22:47

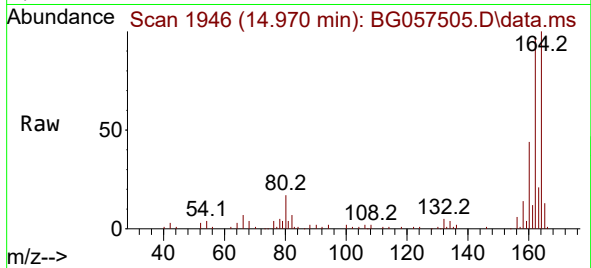
Tgt Ion:172 Resp: 253350
Ion Ratio Lower Upper
172 100
171 36.4 29.4 44.0
170 23.9 19.0 28.6



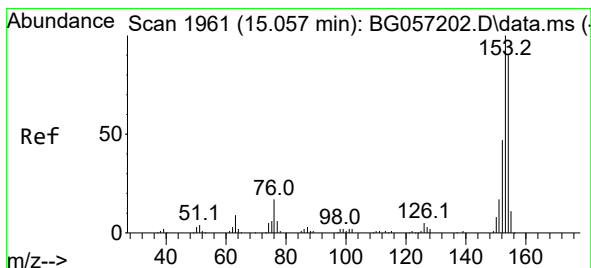
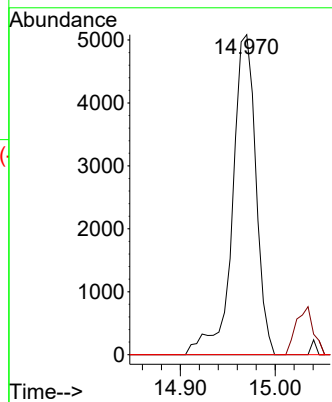
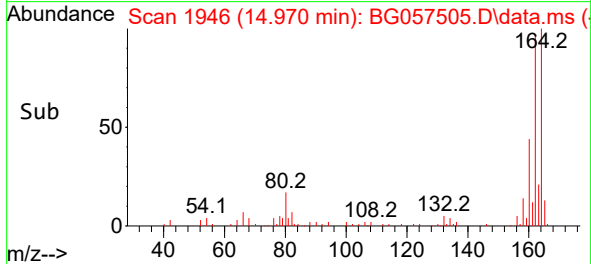


#51
2,6-Dinitrotoluene
Concen: 8.324 ng
RT: 14.970 min Scan# 1946
Delta R.T. 0.428 min
Lab File: BG057505.D
Acq: 22 May 2023 22:47

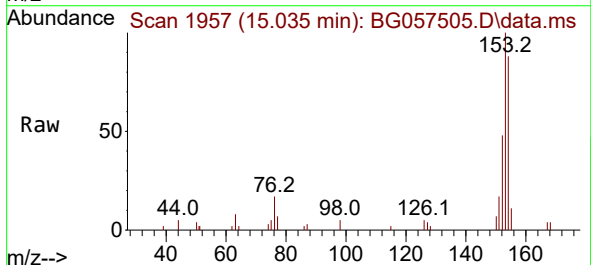
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ClientSampleId :
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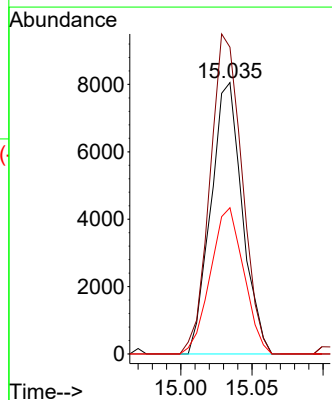
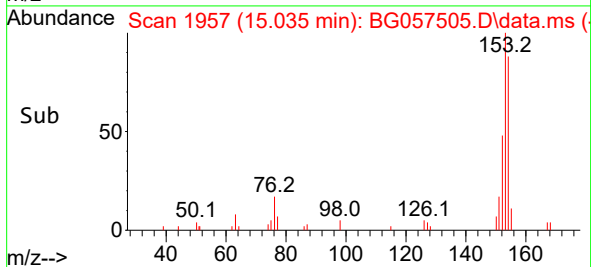
Tgt Ion:165 Resp: 8724
Ion Ratio Lower Upper
165 100
63 0.0 50.9 76.3#
89 0.0 55.2 82.8#

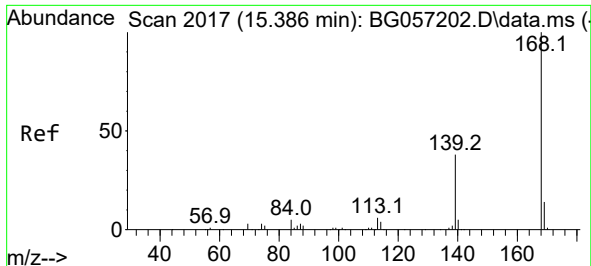


#52
Acenaphthene
Concen: 3.537 ng
RT: 15.035 min Scan# 1957
Delta R.T. -0.000 min
Lab File: BG057505.D
Acq: 22 May 2023 22:47



Tgt Ion:154 Resp: 12376
Ion Ratio Lower Upper
154 100
153 113.0 89.3 133.9
152 53.9 41.7 62.5

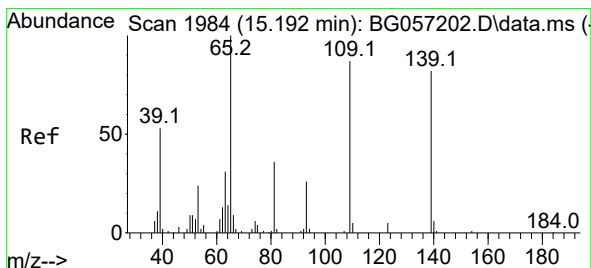
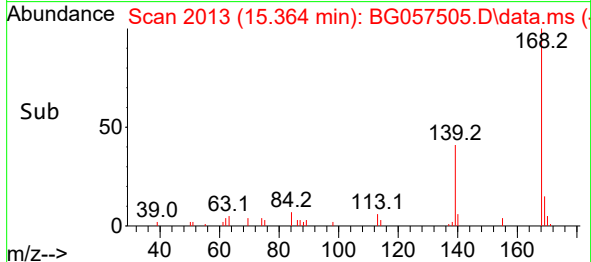
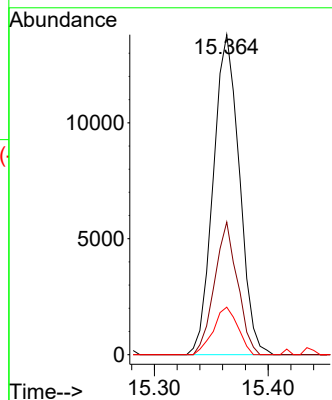
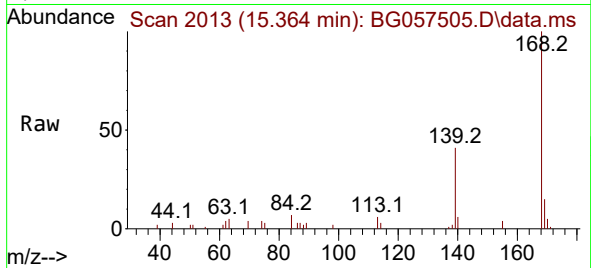




#55
Dibenzenofuran
Concen: 3.742 ng
RT: 15.364 min Scan# 2013
Delta R.T. -0.006 min
Lab File: BG057505.D
Acq: 22 May 2023 22:47

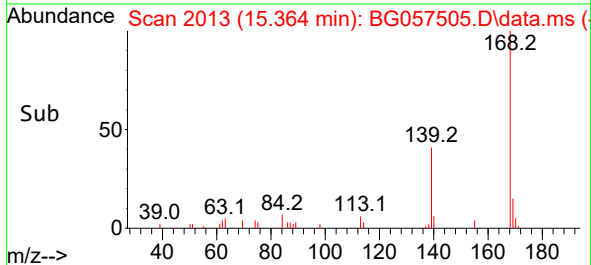
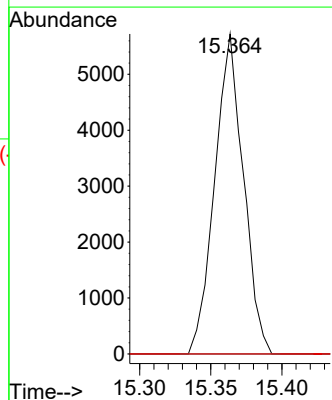
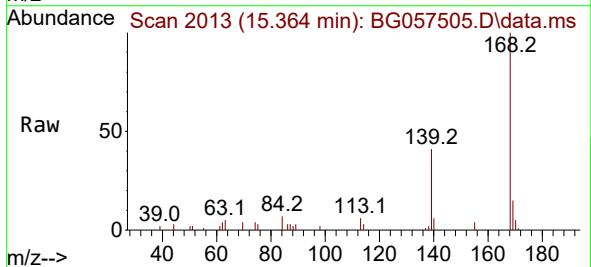
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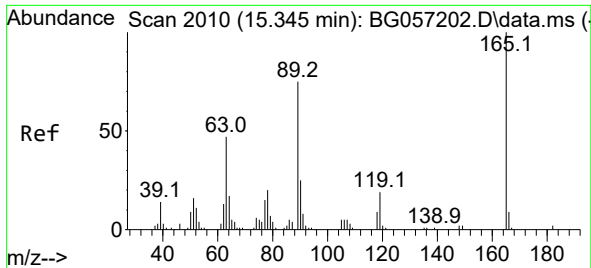
Tgt Ion:168 Resp: 22003
Ion Ratio Lower Upper
168 100
139 41.5 30.7 46.1
169 14.8 10.9 16.3



#56
4-Nitrophenol
Concen: 11.493 ng
RT: 15.364 min Scan# 2013
Delta R.T. 0.182 min
Lab File: BG057505.D
Acq: 22 May 2023 22:47

Tgt Ion:139 Resp: 8026
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: 5.824 ng

RT: 14.970 min Scan# 1946

Delta R.T. -0.359 min

Lab File: BG057505.D

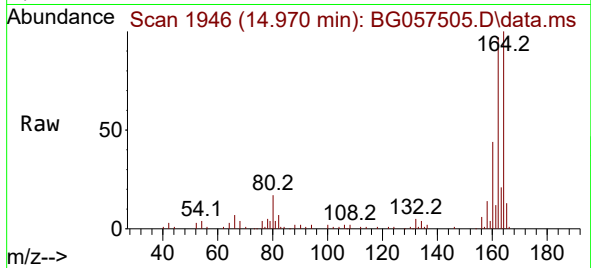
Acq: 22 May 2023 22:47

Instrument :

BNA_G

ClientSampleId :

ETGI-367



Tgt Ion:165 Resp: 8724

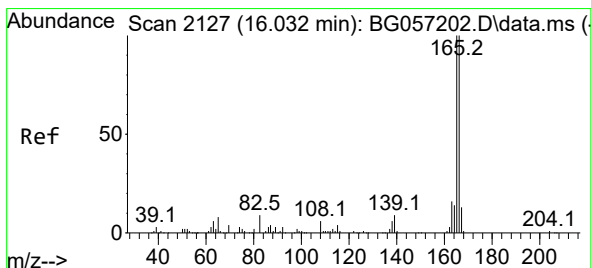
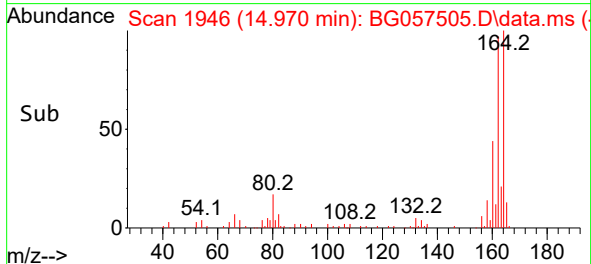
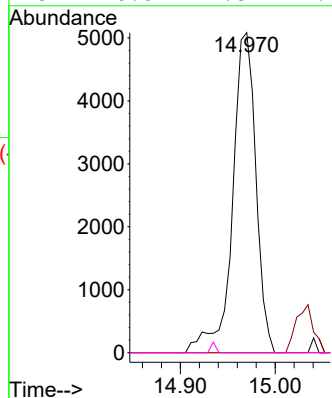
Ion Ratio Lower Upper

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: 5.956 ng

RT: 16.010 min Scan# 2123

Delta R.T. -0.006 min

Lab File: BG057505.D

Acq: 22 May 2023 22:47

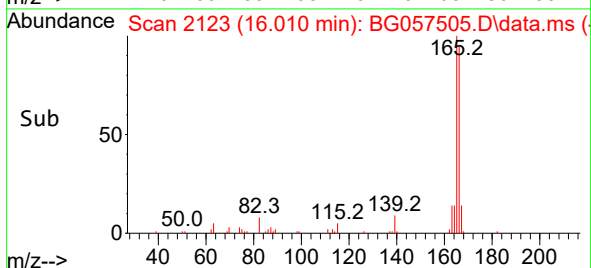
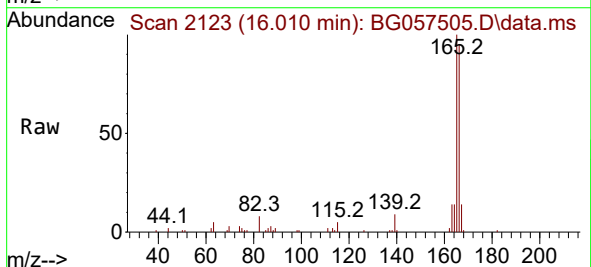
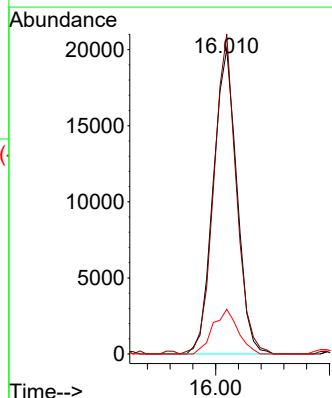
Tgt Ion:166 Resp: 28846

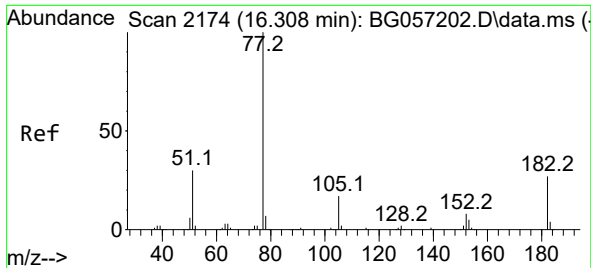
Ion Ratio Lower Upper

166 100

165 104.9 80.1 120.1

167 14.6 10.2 15.2

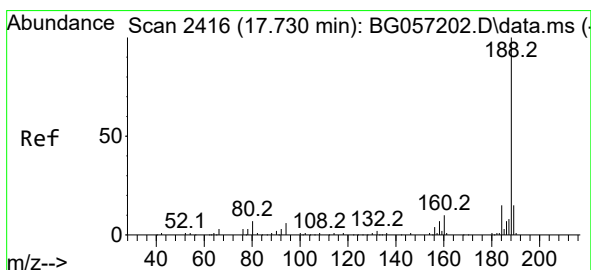
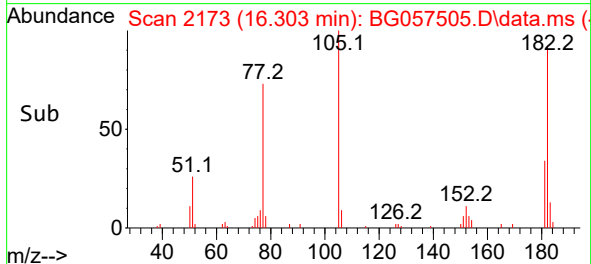
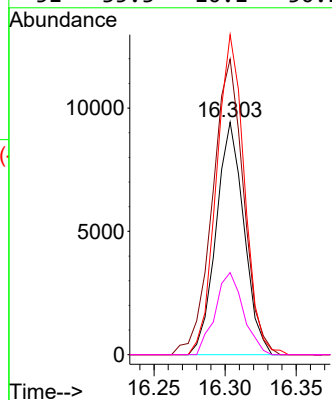
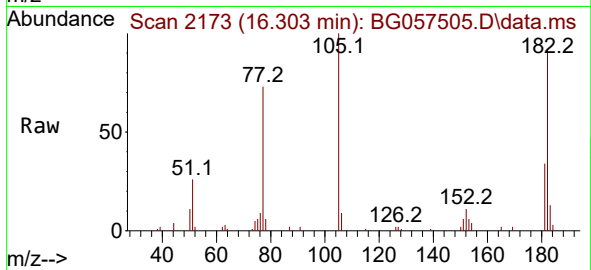




#63
Azobenzene
Concen: 2.553 ng
RT: 16.303 min Scan# 2173
Delta R.T. 0.017 min
Lab File: BG057505.D
Acq: 22 May 2023 22:47

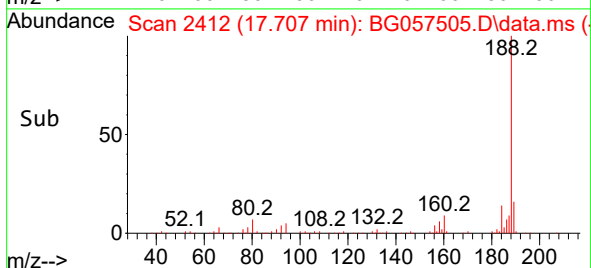
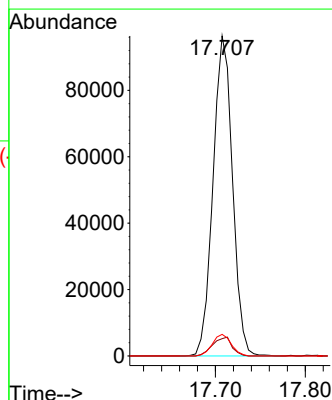
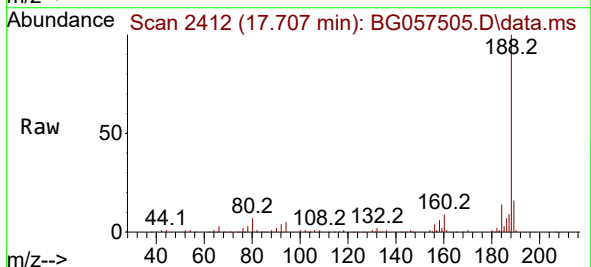
Instrument :
BNA_G
ClientSampleId :
ETGI-367

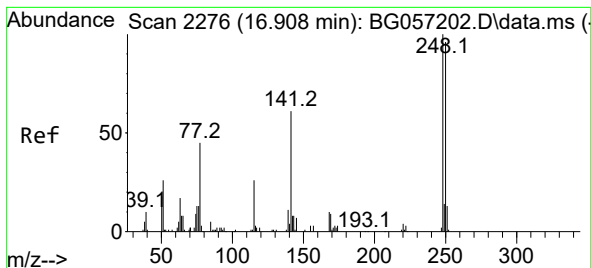
Tgt Ion: 77	Resp: 12843
Ion Ratio	Lower Upper
77 100	
182 127.2	7.4 47.4#
105 137.6	0.0 37.2#
51 35.3	10.1 50.1



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.707 min Scan# 2412
Delta R.T. -0.006 min
Lab File: BG057505.D
Acq: 22 May 2023 22:47

Tgt Ion: 188	Resp: 144856
Ion Ratio	Lower Upper
188 100	
94 5.4	5.1 7.7
80 6.7	5.7 8.5

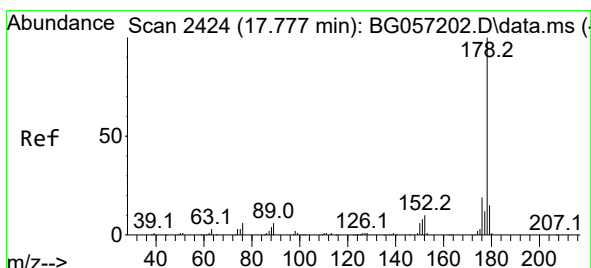
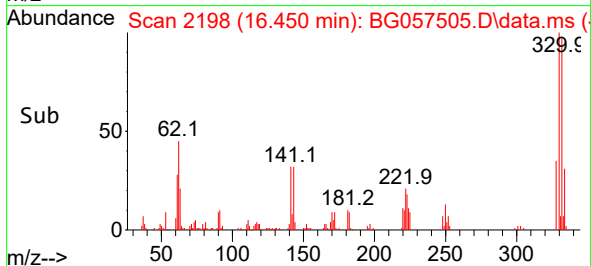
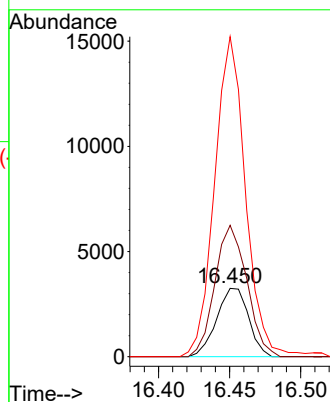
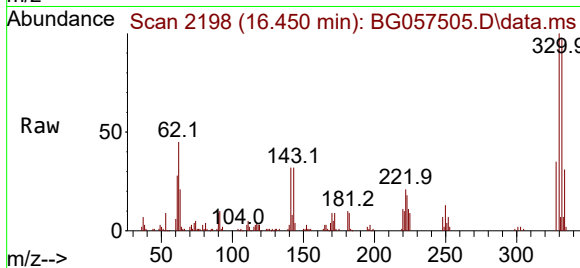




#67
4-Bromophenyl-phenylether
Concen: 2.868 ng
RT: 16.450 min Scan# 2198
Delta R.T. -0.435 min
Lab File: BG057505.D
Acq: 22 May 2023 22:47

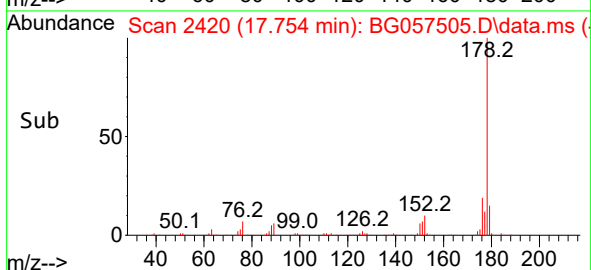
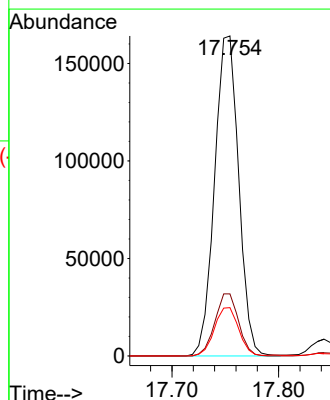
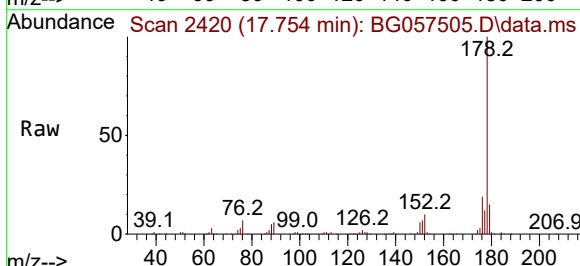
Instrument :
BNA_G
ClientSampleId :
ETGI-367

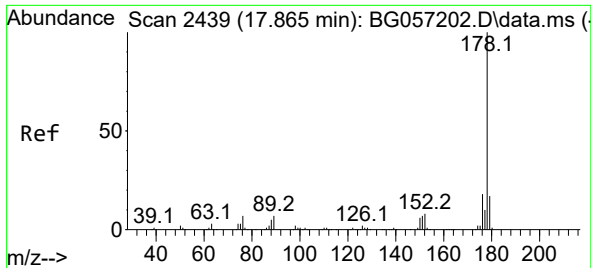
Tgt Ion:248 Resp: 5072
Ion Ratio Lower Upper
248 100
250 192.2 77.0 115.6#
141 468.2 48.6 72.8#



#71
Phenanthrene
Concen: 34.663 ng
RT: 17.754 min Scan# 2420
Delta R.T. -0.000 min
Lab File: BG057505.D
Acq: 22 May 2023 22:47

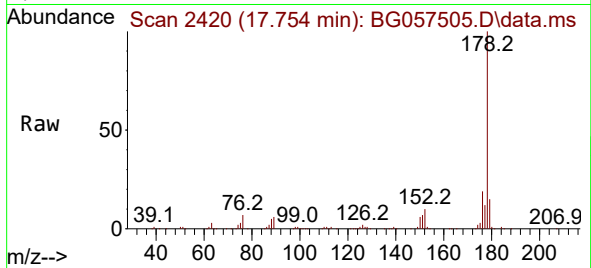
Tgt Ion:178 Resp: 257293
Ion Ratio Lower Upper
178 100
176 19.4 15.4 23.2
179 15.1 12.3 18.5



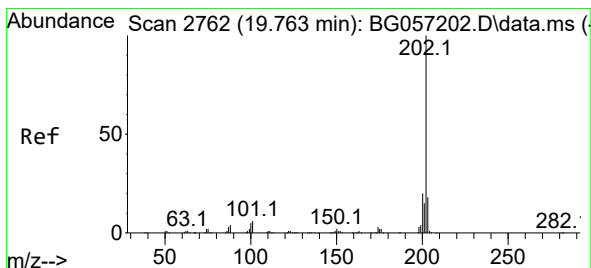
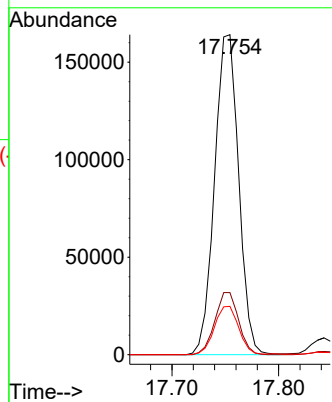
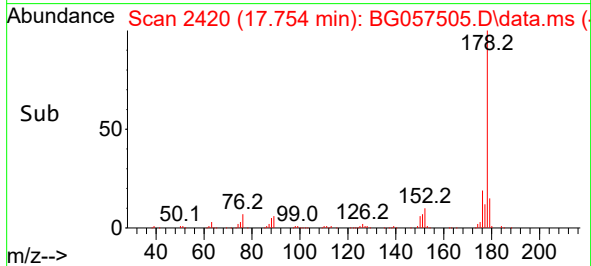


#72
 Anthracene
 Concen: 33.782 ng
 RT: 17.754 min Scan# 24
 Delta R.T. -0.094 min
 Lab File: BG057505.D
 Acq: 22 May 2023 22:47

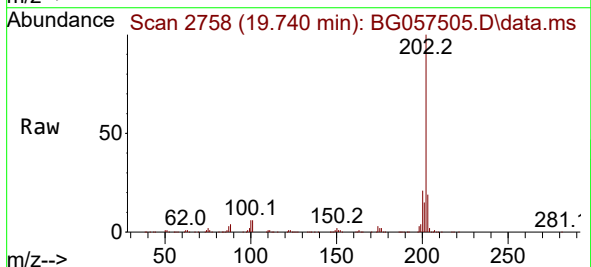
Instrument :
 BNA_G
 ClientSampleId :
 ETGI-367



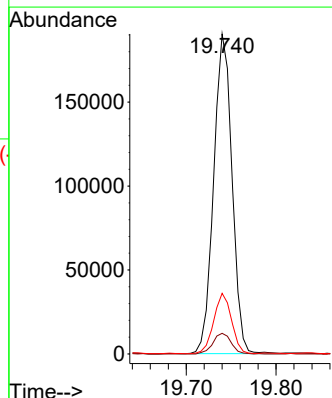
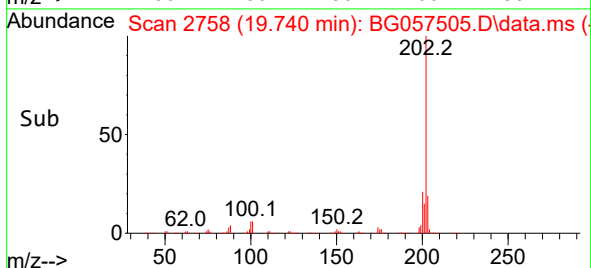
Tgt Ion:178 Resp: 257293
 Ion Ratio Lower Upper
 178 100
 176 19.4 14.7 22.1
 179 15.1 13.2 19.8

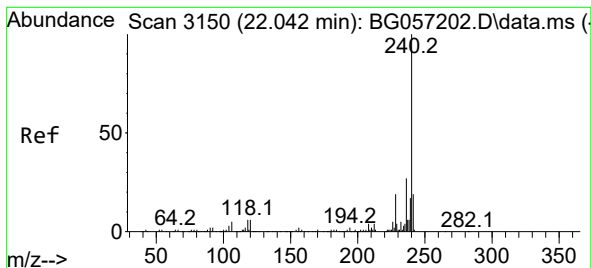


#75
 Fluoranthene
 Concen: 29.283 ng
 RT: 19.740 min Scan# 2758
 Delta R.T. -0.006 min
 Lab File: BG057505.D
 Acq: 22 May 2023 22:47



Tgt Ion:202 Resp: 270336
 Ion Ratio Lower Upper
 202 100
 101 6.5 0.0 26.2
 203 19.0 0.0 37.9





#76

Chrysene-d12

Concen: 20.000 ng

RT: 22.013 min Scan# 31

Delta R.T. -0.006 min

Lab File: BG057505.D

Acq: 22 May 2023 22:47

Instrument :

BNA_G

ClientSampleId :

ETGI-367

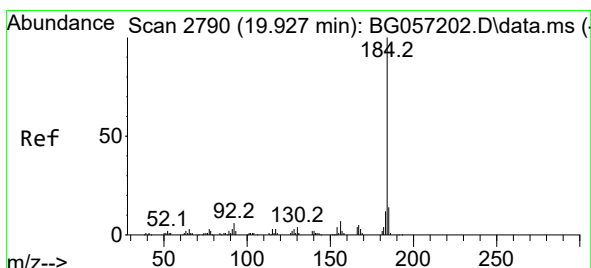
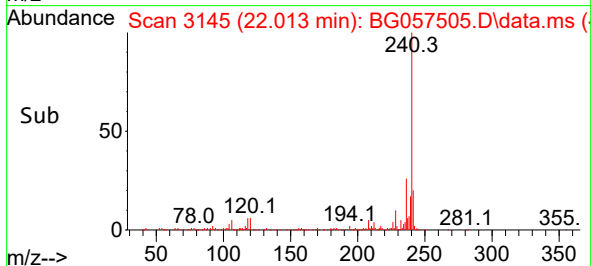
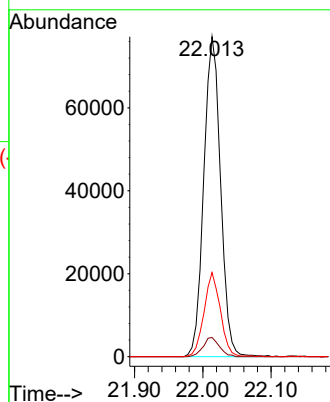
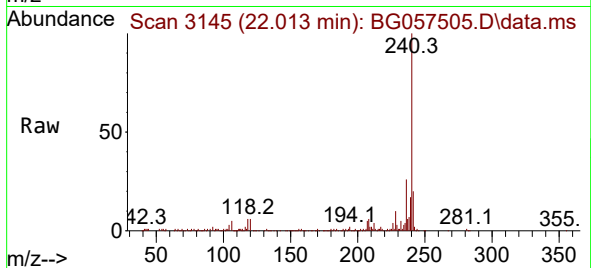
Tgt Ion:240 Resp: 132151

Ion Ratio Lower Upper

240 100

120 6.0 4.9 7.3

236 26.3 21.4 32.2



#77

Benzidine

Concen: 2.263 ng

RT: 20.275 min Scan# 2849

Delta R.T. 0.364 min

Lab File: BG057505.D

Acq: 22 May 2023 22:47

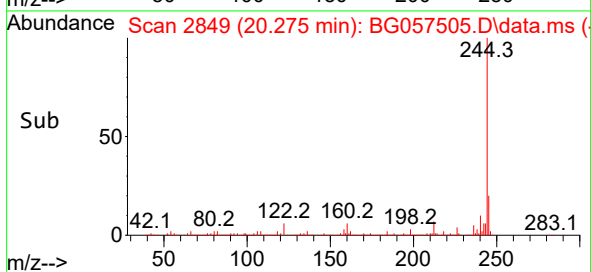
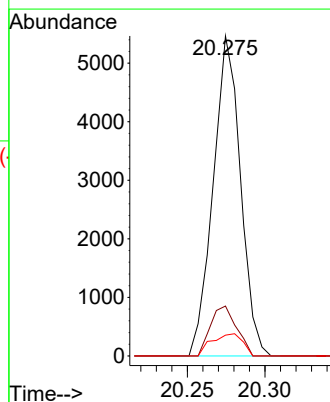
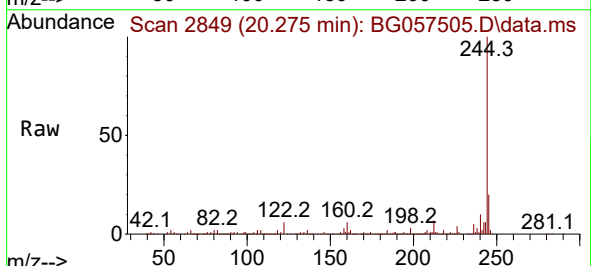
Tgt Ion:184 Resp: 6685

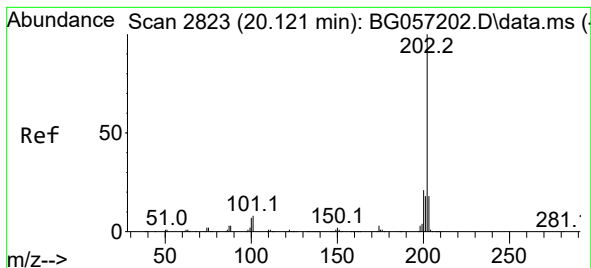
Ion Ratio Lower Upper

184 100

185 15.6 11.1 16.7

183 6.5 9.9 14.9#





#78

Pyrene

Concen: 19.544 ng

RT: 20.104 min Scan# 21

Delta R.T. -0.000 min

Lab File: BG057505.D

Acq: 22 May 2023 22:47

Instrument :

BNA_G

ClientSampleId :

ETGI-367

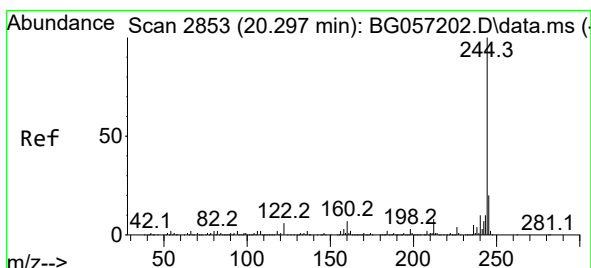
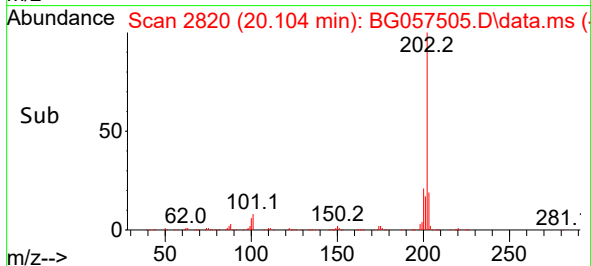
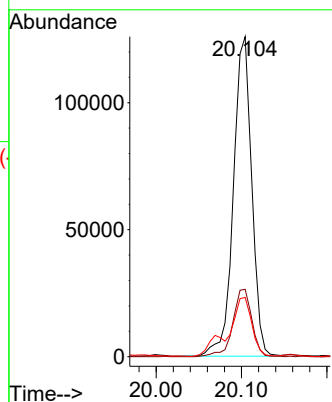
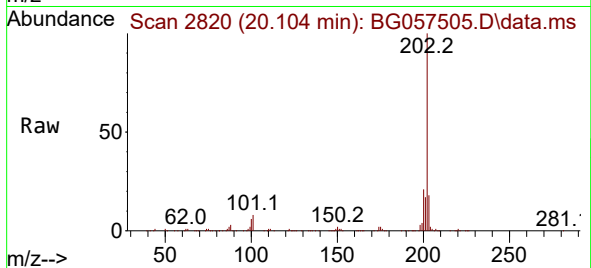
Tgt Ion:202 Resp: 187676

Ion Ratio Lower Upper

202 100

200 21.0 17.0 25.4

203 18.5 14.2 21.4



#79

Terphenyl-d14

Concen: 53.778 ng

RT: 20.275 min Scan# 2849

Delta R.T. -0.006 min

Lab File: BG057505.D

Acq: 22 May 2023 22:47

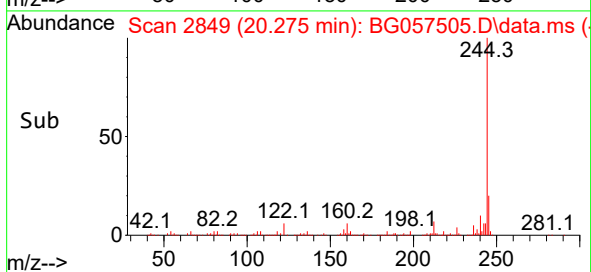
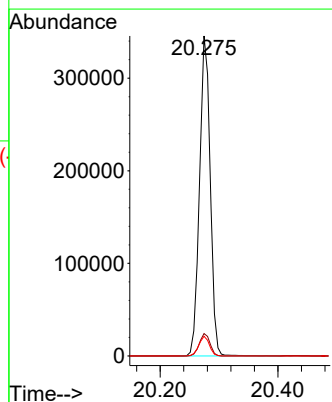
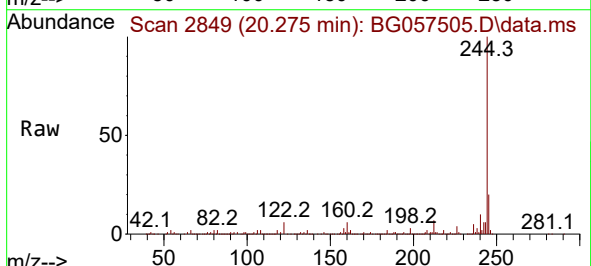
Tgt Ion:244 Resp: 435484

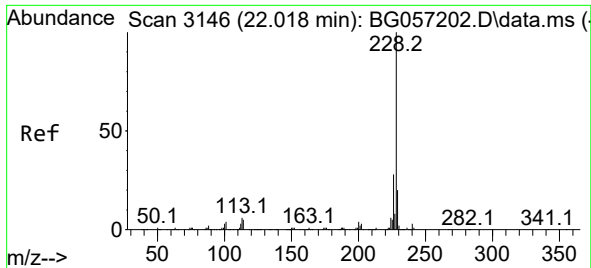
Ion Ratio Lower Upper

244 100

212 7.0 6.1 9.1

122 6.1 5.1 7.7

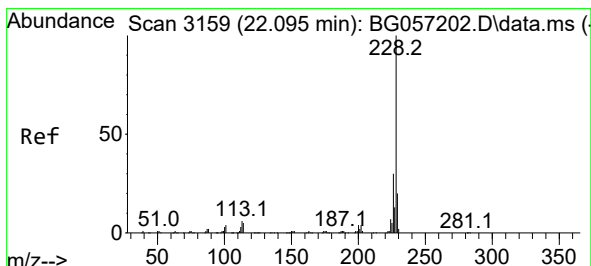
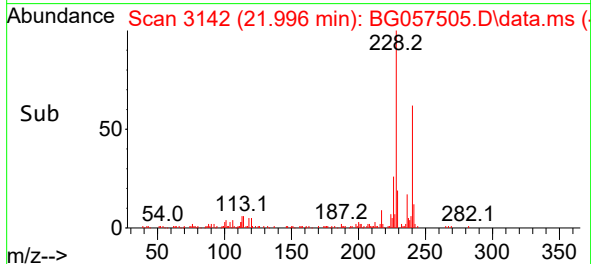
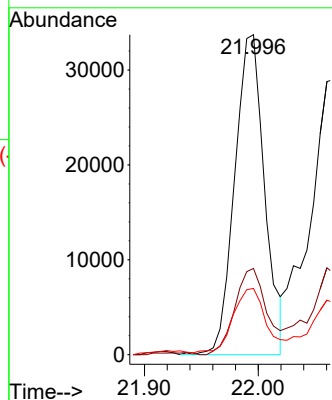
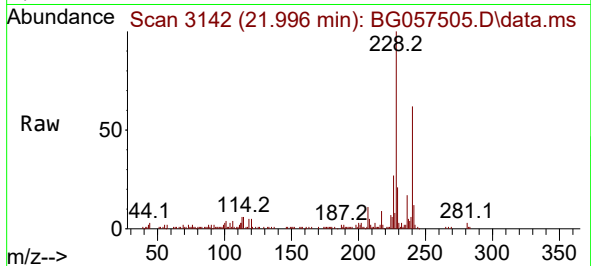




#81
Benzo(a)anthracene
Concen: 6.540 ng
RT: 21.996 min Scan# 3142
Delta R.T. -0.000 min
Lab File: BG057505.D
Acq: 22 May 2023 22:47

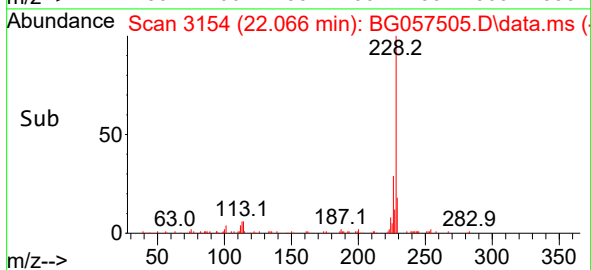
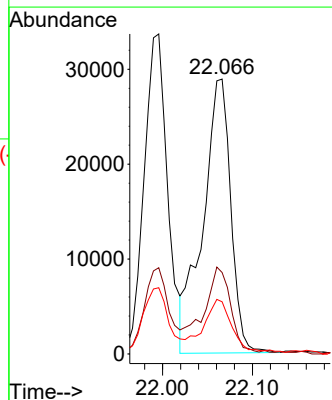
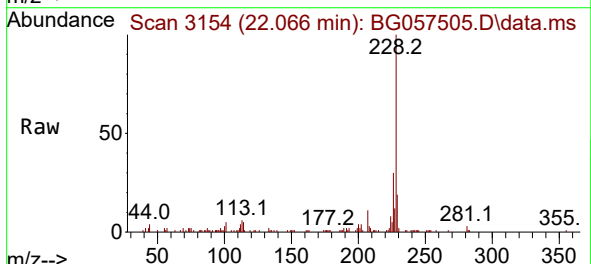
Instrument :
BNA_G
ClientSampleId :
ETGI-367

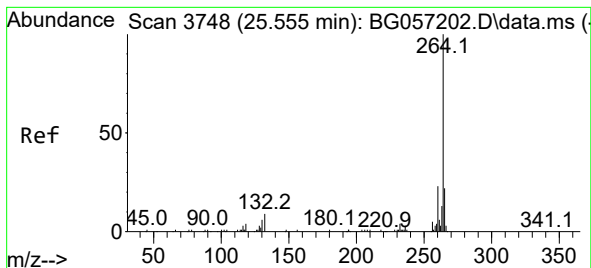
Tgt Ion:228 Resp: 61572
Ion Ratio Lower Upper
228 100
226 27.0 22.0 33.0
229 20.7 15.8 23.8



#83
Chrysene
Concen: 7.044 ng
RT: 22.066 min Scan# 3154
Delta R.T. -0.006 min
Lab File: BG057505.D
Acq: 22 May 2023 22:47

Tgt Ion:228 Resp: 62402
Ion Ratio Lower Upper
228 100
226 29.6 24.3 36.5
229 19.0 15.9 23.9





#86

Perylene-d12

Concen: 20.000 ng

RT: 25.515 min Scan# 31

Delta R.T. -0.000 min

Lab File: BG057505.D

Acq: 22 May 2023 22:47

Instrument :

BNA_G

ClientSampleId :

ETGI-367

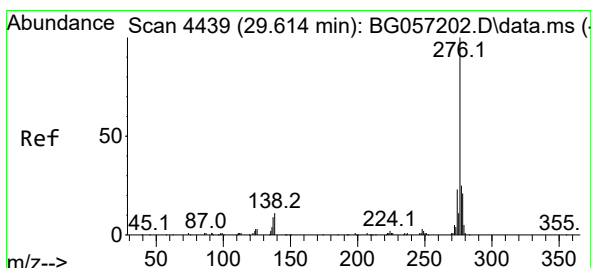
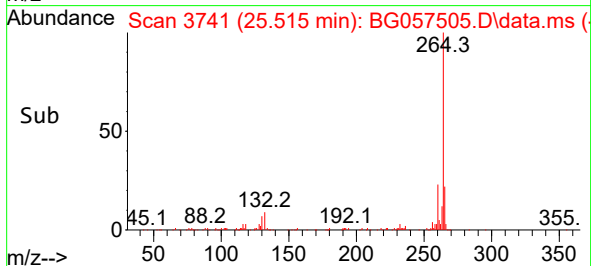
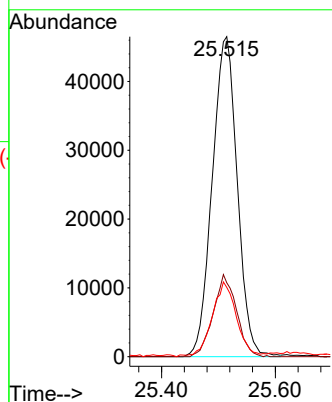
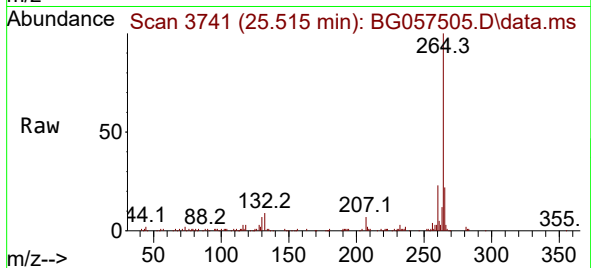
Tgt Ion:264 Resp: 142004

Ion Ratio Lower Upper

264 100

260 23.1 18.8 28.2

265 21.7 17.9 26.9



#87

Indeno(1,2,3-cd)pyrene

Concen: 2.611 ng

RT: 29.533 min Scan# 4425

Delta R.T. -0.030 min

Lab File: BG057505.D

Acq: 22 May 2023 22:47

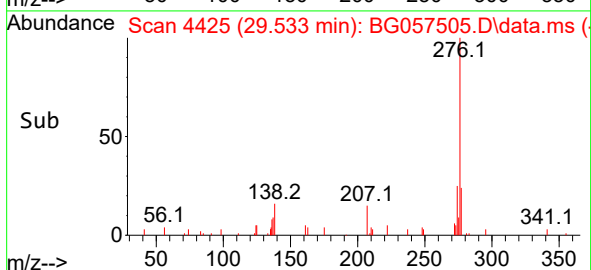
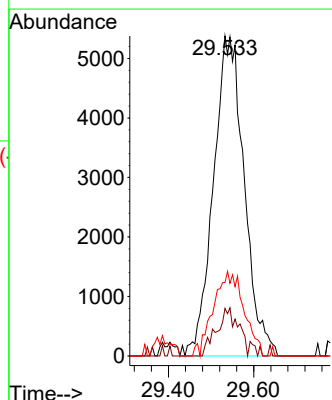
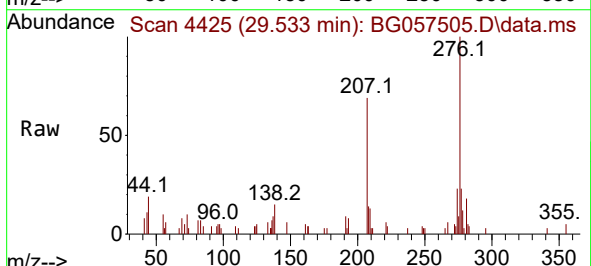
Tgt Ion:276 Resp: 27025

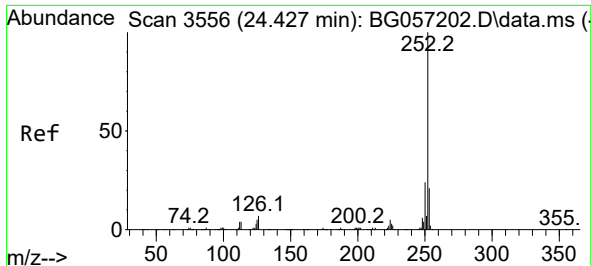
Ion Ratio Lower Upper

276 100

138 10.7 5.4 8.0#

277 26.1 20.6 30.8

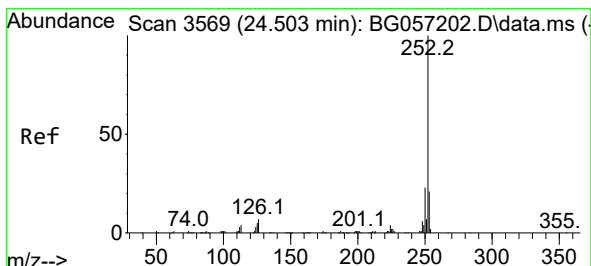
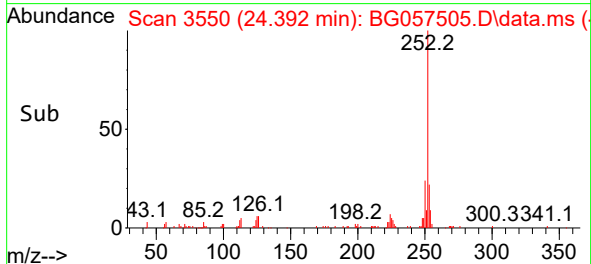
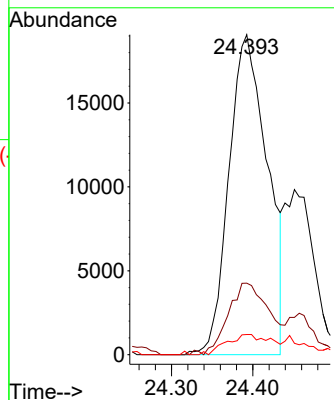
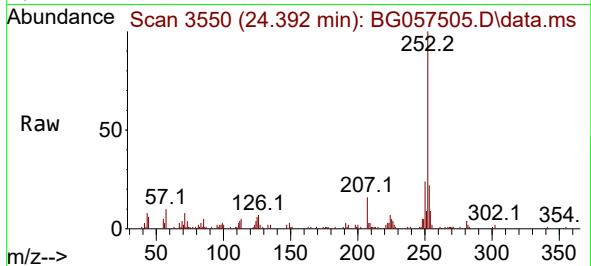




#88
Benzo(b)fluoranthene
Concen: 6.754 ng
RT: 24.392 min Scan# 3550
Delta R.T. -0.000 min
Lab File: BG057505.D
Acq: 22 May 2023 22:47

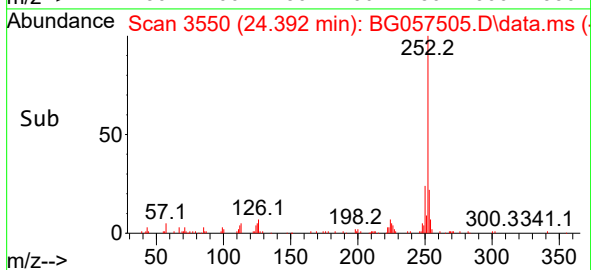
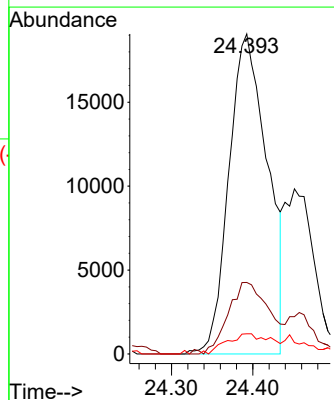
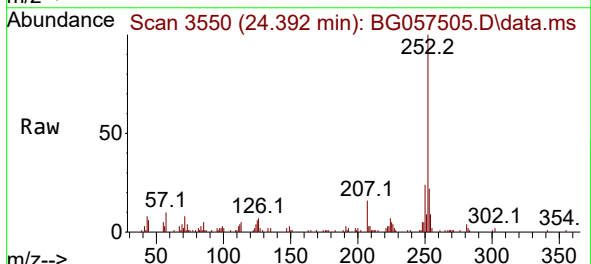
Instrument :
BNA_G
ClientSampleId :
ETGI-367

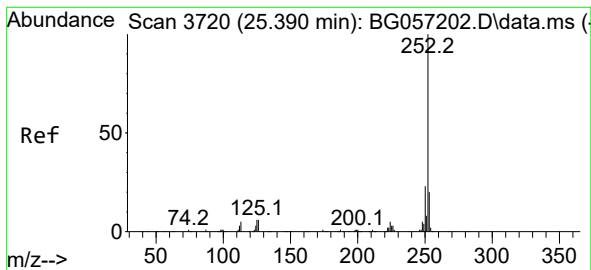
Tgt Ion:252 Resp: 62692
Ion Ratio Lower Upper
252 100
253 22.4 17.0 25.6
125 6.3 4.2 6.2#



#89
Benzo(k)fluoranthene
Concen: 6.646 ng
RT: 24.392 min Scan# 3550
Delta R.T. -0.077 min
Lab File: BG057505.D
Acq: 22 May 2023 22:47

Tgt Ion:252 Resp: 62692
Ion Ratio Lower Upper
252 100
253 22.4 17.4 26.0
125 6.3 4.1 6.1#





#90

Benzo(a)pyrene

Concen: 4.401 ng

RT: 25.344 min Scan# 31

Delta R.T. -0.012 min

Lab File: BG057505.D

Acq: 22 May 2023 22:47

Instrument :

BNA_G

ClientSampleId :

ETGI-367

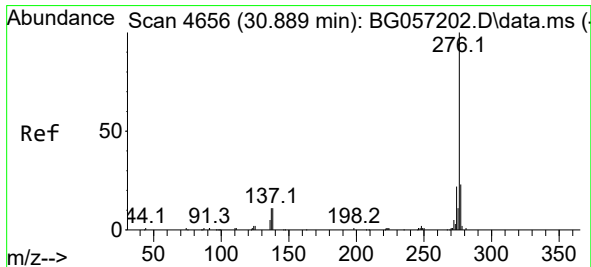
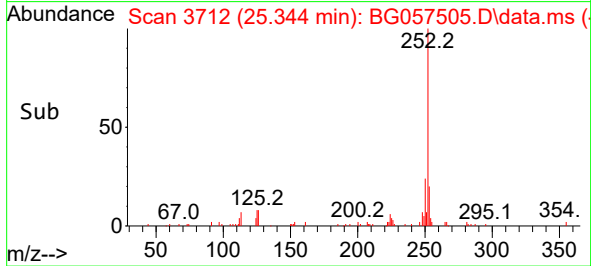
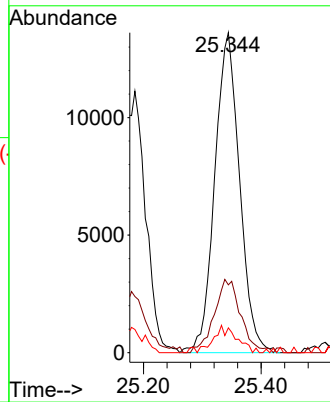
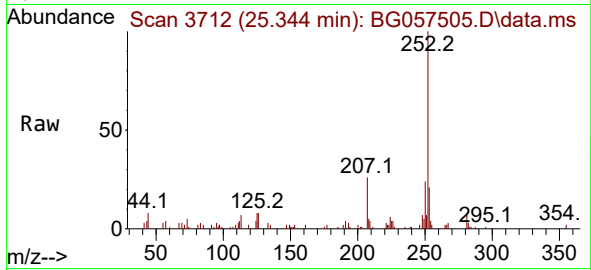
Tgt Ion:252 Resp: 39916

Ion Ratio Lower Upper

252 100

253 21.2 16.3 24.5

125 7.8 5.0 7.4#



#92

Benzo(g,h,i)perylene

Concen: 3.024 ng

RT: 30.813 min Scan# 4643

Delta R.T. -0.024 min

Lab File: BG057505.D

Acq: 22 May 2023 22:47

Tgt Ion:276 Resp: 25447

Ion Ratio Lower Upper

276 100

277 24.2 18.4 27.6

138 12.5 9.0 13.4

