

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG052323\
 Data File : BG057528.D
 Acq On : 23 May 2023 20:44
 Operator : CG/JU
 Sample : 02892-13
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 TP-29

Quant Time: May 24 04:35:54 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)

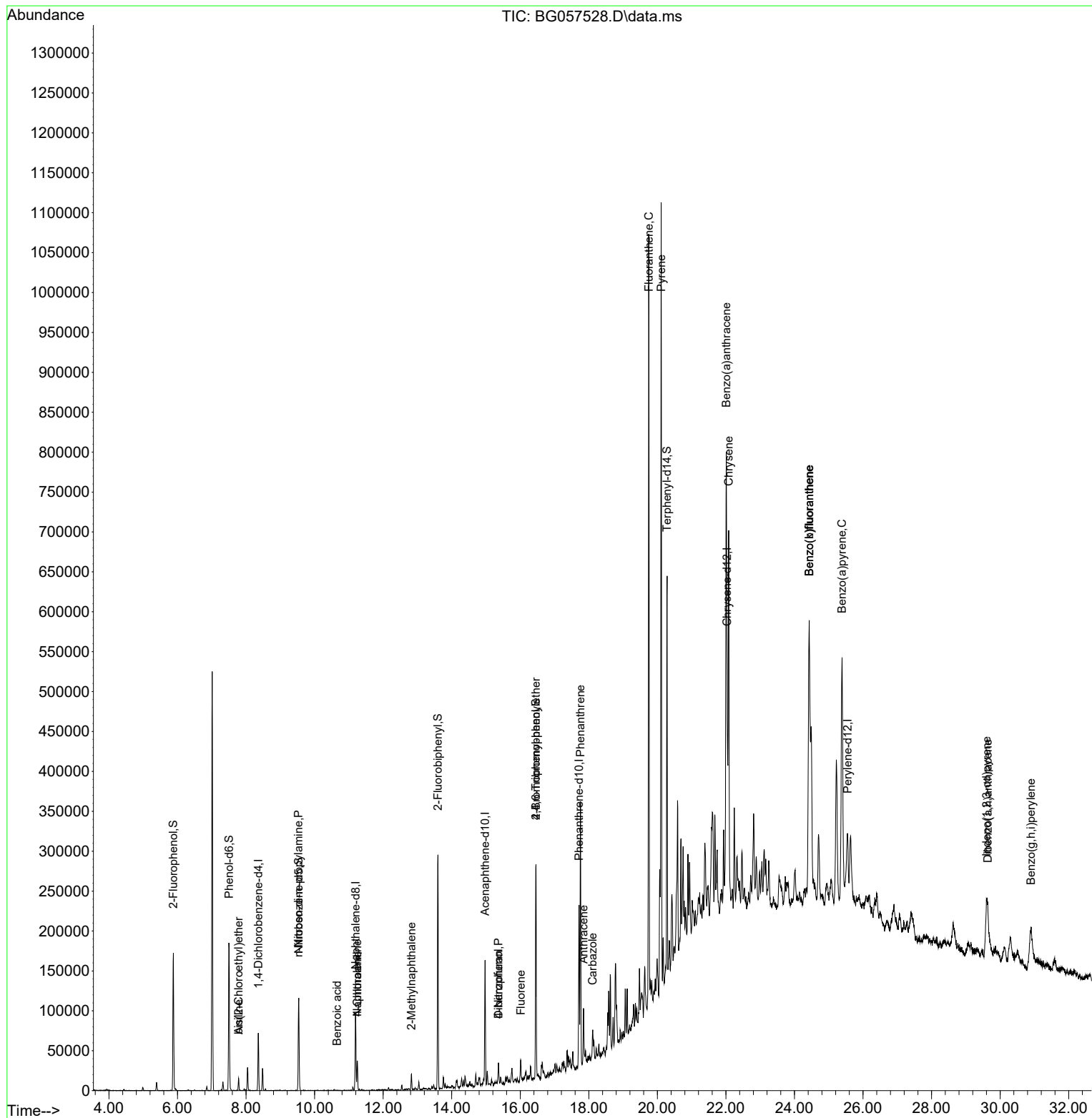
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.357	152	20980	20.000	ng	0.00
21) Naphthalene-d8	11.194	136	81260	20.000	ng	0.00
39) Acenaphthene-d10	14.971	164	57529	20.000	ng	0.00
64) Phenanthrene-d10	17.715	188	130975	20.000	ng	0.00
76) Chrysene-d12	22.032	240	117474	20.000	ng	0.01
86) Perylene-d12	25.551	264	123647	20.000	ng	0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.878	112	82090	66.932	ng	0.00
7) Phenol-d6	7.499	99	118445	63.597	ng	0.00
23) Nitrobenzene-d5	9.537	82	76652	39.591	ng	0.00
42) 2,4,6-Tribromophenol	16.458	330	54409	66.655	ng	0.00
45) 2-Fluorobiphenyl	13.597	172	158876	37.194	ng	0.00
79) Terphenyl-d14	20.282	244	224286	31.157	ng	0.00
Target Compounds					Qvalue	
6) Aniline	7.781	93	5745	2.432 ng	#	46
9) Benzaldehyde	7.493	77	269	Below Cal	#	54
11) bis(2-Chloroethyl)ether	7.781	93	5745	4.196 ng	#	19
19) n-Nitroso-di-n-propyla...	9.532	70	11201	7.887 ng	#	75
31) Naphthalene	11.241	128	31116	7.163 ng		99
32) Benzoic acid	10.654	122	56	4.784 ng	#	1
33) 4-Chloroaniline	11.241	127	4367	2.238 ng	#	40
37) 2-Methylnaphthalene	12.821	142	9618	2.816 ng		97
55) Dibenzofuran	15.365	168	15307	2.827 ng		96
56) 4-Nitrophenol	15.365	139	5824	9.056 ng	#	1
58) Fluorene	16.011	166	12175	2.730 ng	#	97
67) 4-Bromophenyl-phenylether	16.458	248	4011	2.509 ng	#	1
71) Phenanthrene	17.756	178	214089	31.899 ng		99
72) Anthracene	17.844	178	48845	7.093 ng		98
73) Carbazole	18.114	167	22881	3.947 ng		96
75) Fluoranthene	19.747	202	629155	75.373 ng		98
78) Pyrene	20.111	202	642983	75.323 ng		98
81) Benzo(a)anthracene	22.009	228	405098	48.401 ng		98
83) Chrysene	22.079	228	380807	48.357 ng		96
87) Indeno(1,2,3-cd)pyrene	29.604	276	184890	20.517 ng	#	92
88) Benzo(b)fluoranthene	24.429	252	531851	65.801 ng	#	94
89) Benzo(k)fluoranthene	24.429	252	531851	64.753 ng	#	95
90) Benzo(a)pyrene	25.387	252	446548	56.550 ng		93
91) Dibenzo(a,h)anthracene	29.640	278	42959	5.724 ng	#	83
92) Benzo(g,h,i)perylene	30.897	276	150388	20.523 ng		99

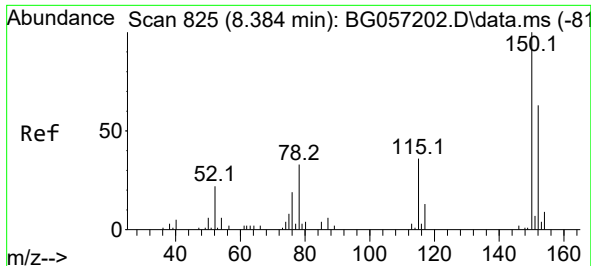
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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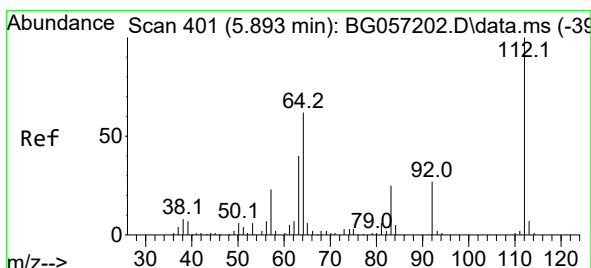
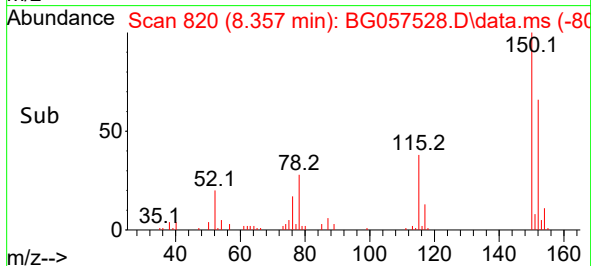
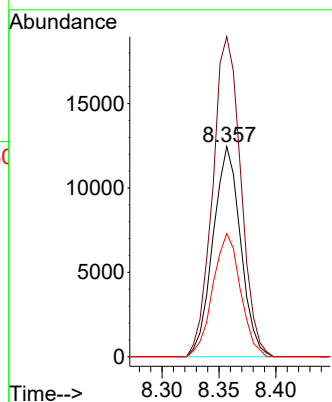
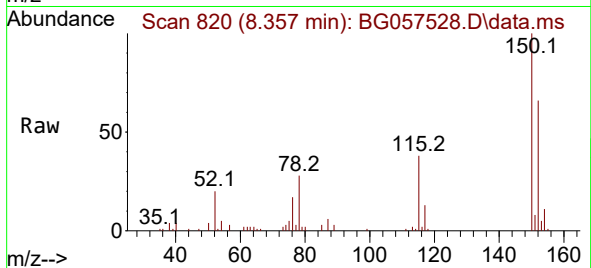




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.357 min Scan# 81
Delta R.T. -0.005 min
Lab File: BG057528.D
Acq: 23 May 2023 20:44

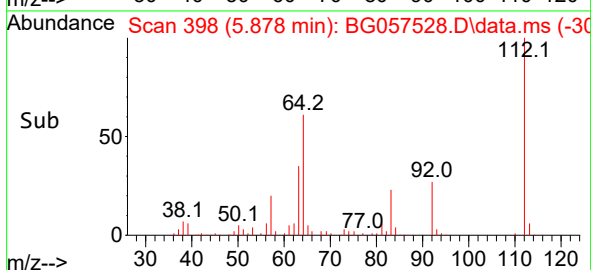
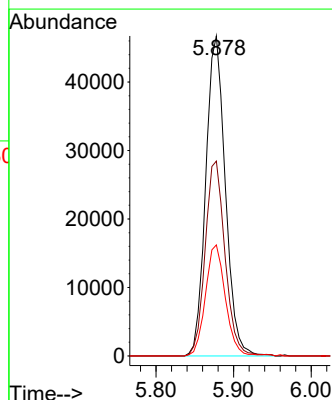
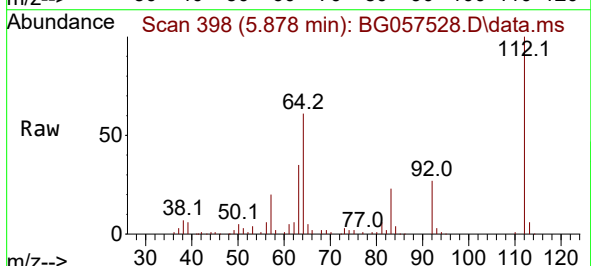
Instrument :
BNA_G
ClientSampleId :
TP-29

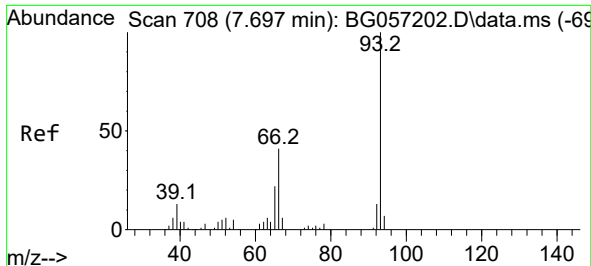
Tgt Ion:152 Resp: 20980
Ion Ratio Lower Upper
152 100
150 152.4 126.2 189.4
115 58.6 45.0 67.4



#5
2-Fluorophenol
Concen: 66.932 ng
RT: 5.878 min Scan# 398
Delta R.T. 0.007 min
Lab File: BG057528.D
Acq: 23 May 2023 20:44

Tgt Ion:112 Resp: 82090
Ion Ratio Lower Upper
112 100
64 60.9 49.4 74.2
63 34.7 31.6 47.4





#6

Aniline

Concen: 2.432 ng

RT: 7.781 min Scan# 71

Delta R.T. 0.107 min

Lab File: BG057528.D

Acq: 23 May 2023 20:44

Instrument :

BNA_G

ClientSampleId :

TP-29

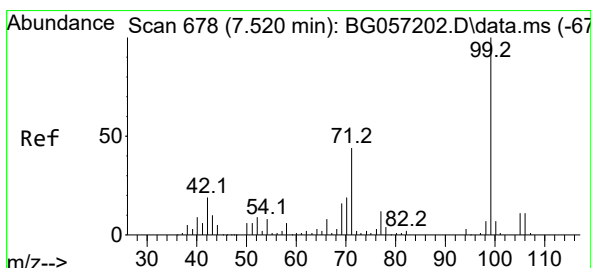
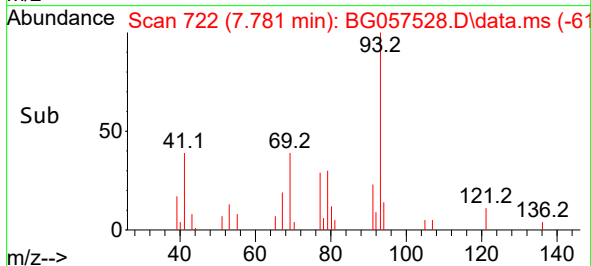
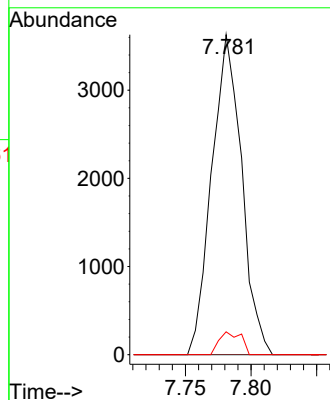
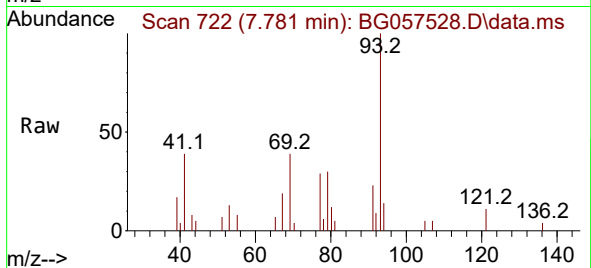
Tgt Ion: 93 Resp: 5745

Ion Ratio Lower Upper

93 100

66 0.0 33.0 49.6#

65 7.2 18.0 27.0#



#7

Phenol-d6

Concen: 63.597 ng

RT: 7.499 min Scan# 674

Delta R.T. 0.001 min

Lab File: BG057528.D

Acq: 23 May 2023 20:44

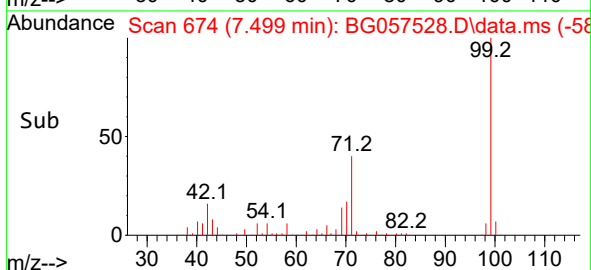
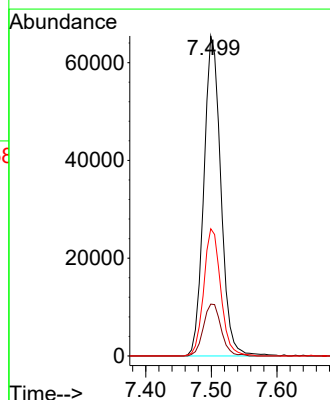
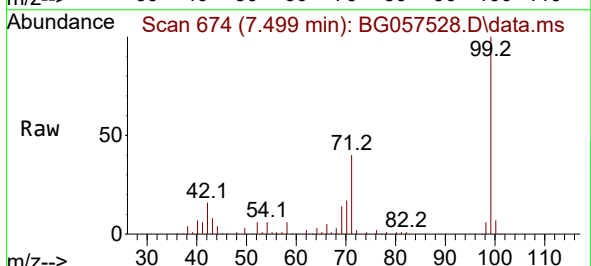
Tgt Ion: 99 Resp: 118445

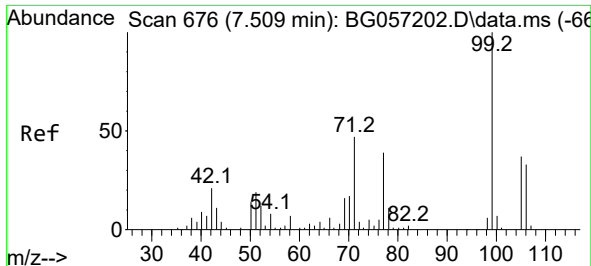
Ion Ratio Lower Upper

99 100

42 16.2 15.1 22.7

71 39.8 35.2 52.8

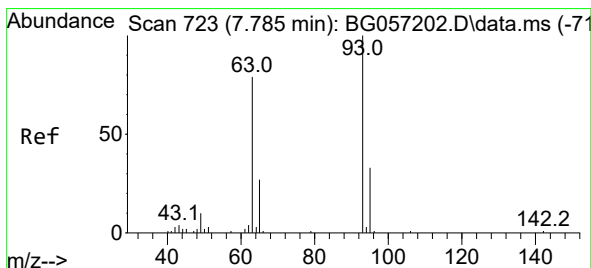
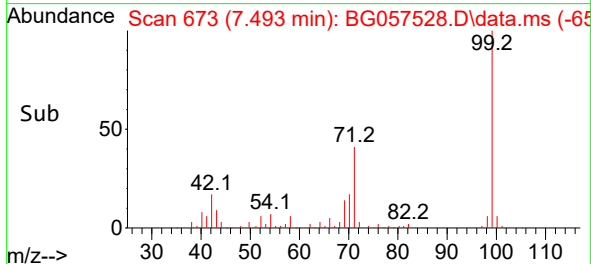
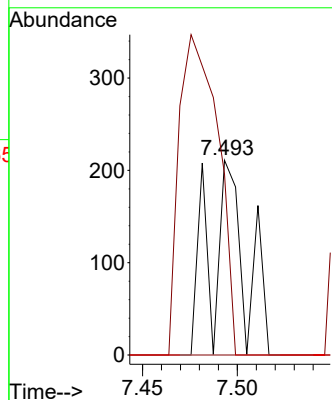
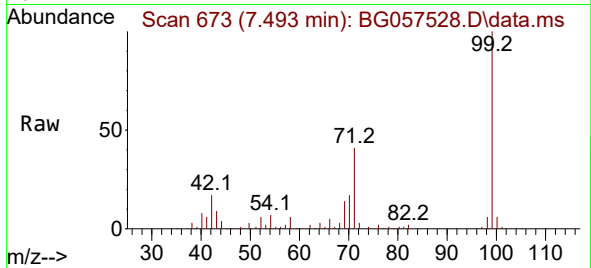




#9
Benzaldehyde
Concen: Below Cal
RT: 7.493 min Scan# 61
Delta R.T. 0.007 min
Lab File: BG057528.D
Acq: 23 May 2023 20:44

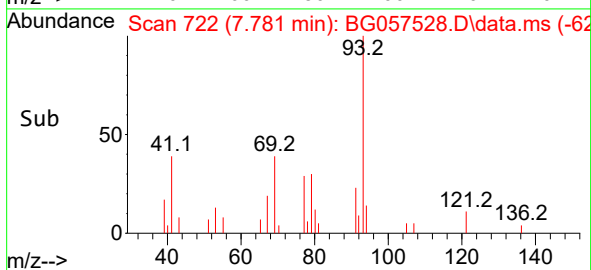
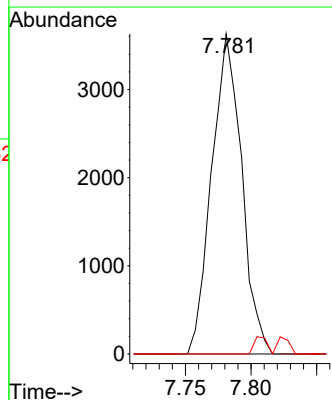
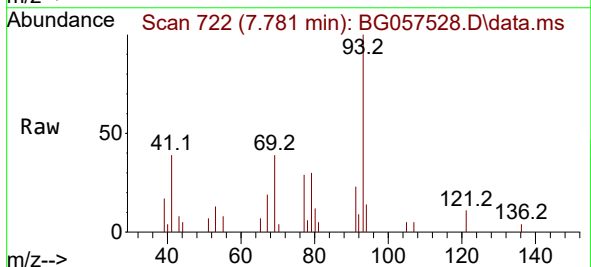
Instrument :
BNA_G
ClientSampleId :
TP-29

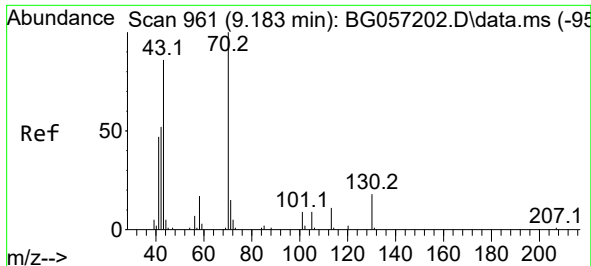
Tgt Ion: 77 Resp: 269
Ion Ratio Lower Upper
77 100
105 92.9 74.6 114.6
106 0.0 66.3 106.3#



#11
bis(2-Chloroethyl)ether
Concen: 4.196 ng
RT: 7.781 min Scan# 722
Delta R.T. 0.019 min
Lab File: BG057528.D
Acq: 23 May 2023 20:44

Tgt Ion: 93 Resp: 5745
Ion Ratio Lower Upper
93 100
63 0.0 58.6 98.6#
95 0.0 12.2 52.2#

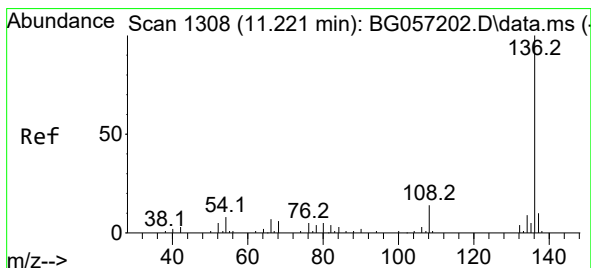
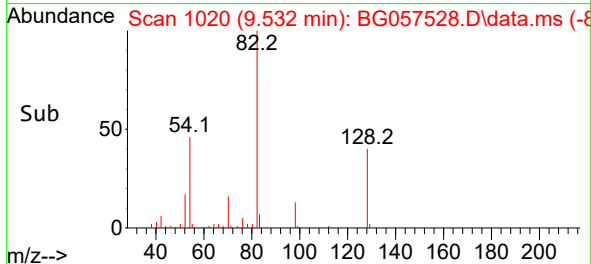
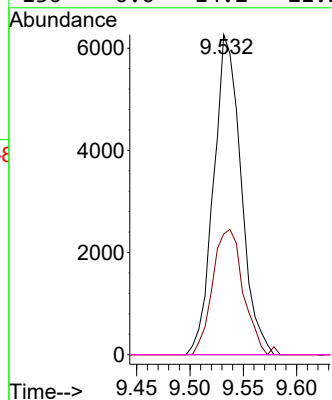
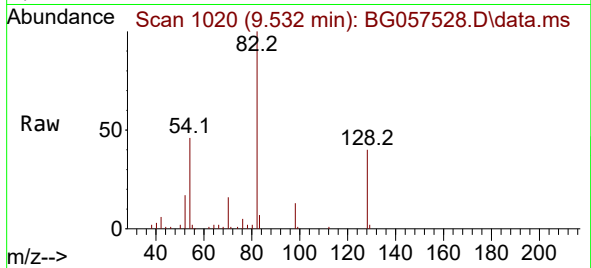




#19
n-Nitroso-di-n-propylamine
Concen: 7.887 ng
RT: 9.532 min Scan# 1020
Delta R.T. 0.371 min
Lab File: BG057528.D
Acq: 23 May 2023 20:44

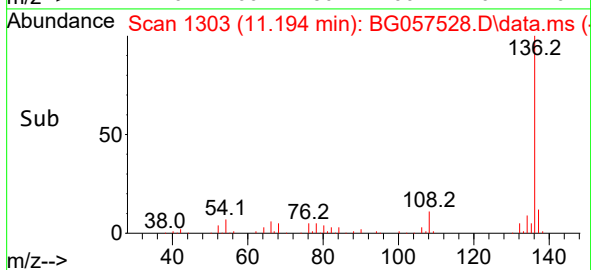
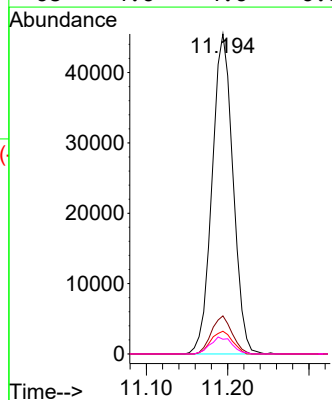
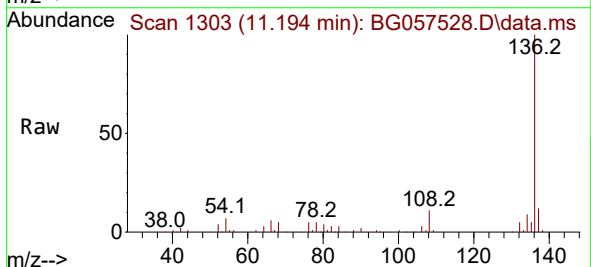
Instrument :
BNA_G
ClientSampleId :
TP-29

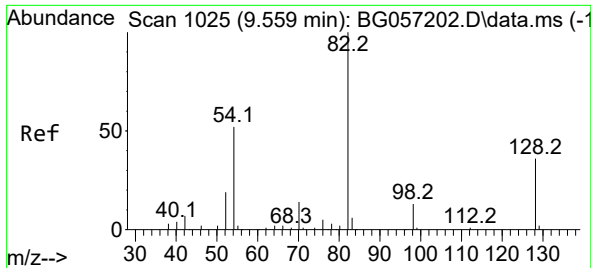
Tgt Ion: 70 Resp: 11201
Ion Ratio Lower Upper
70 100
42 37.7 41.8 62.8#
101 0.0 6.8 10.2#
130 0.0 14.2 21.2#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.194 min Scan# 1303
Delta R.T. -0.005 min
Lab File: BG057528.D
Acq: 23 May 2023 20:44

Tgt Ion:136 Resp: 81260
Ion Ratio Lower Upper
136 100
137 11.9 8.3 12.5
54 7.1 6.7 10.1
68 4.6 4.6 6.8

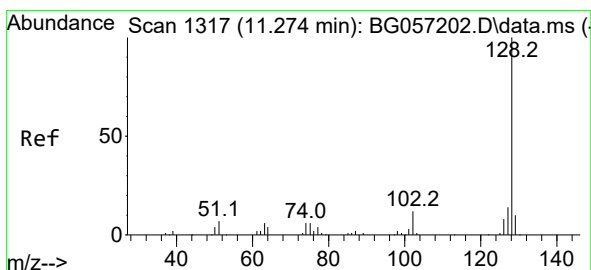
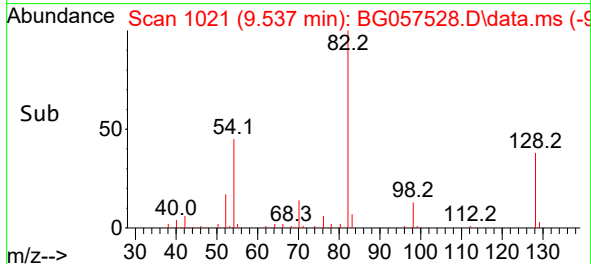
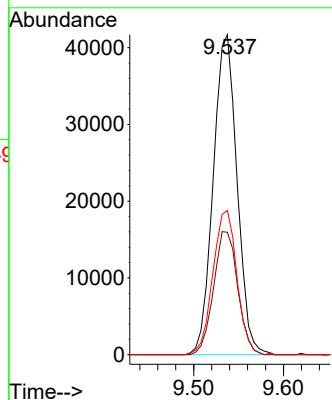
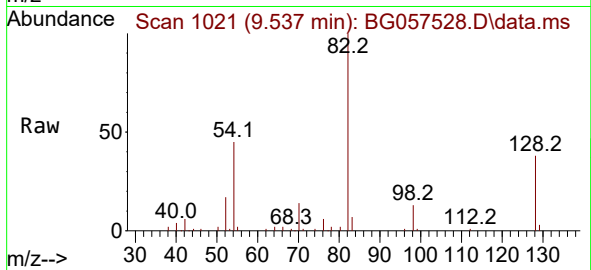




#23
Nitrobenzene-d5
Concen: 39.591 ng
RT: 9.537 min Scan# 1021
Delta R.T. 0.001 min
Lab File: BG057528.D
Acq: 23 May 2023 20:44

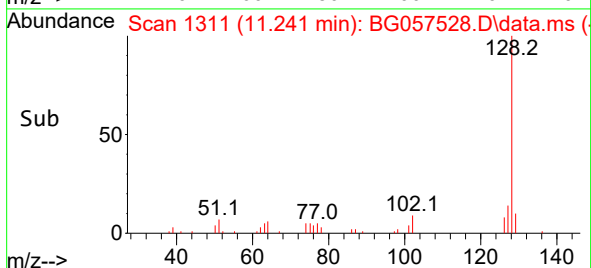
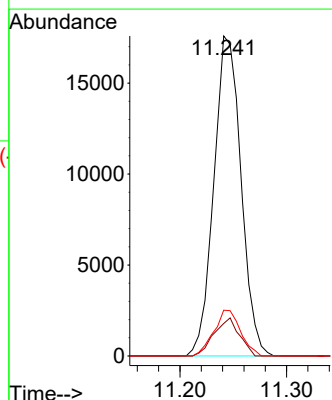
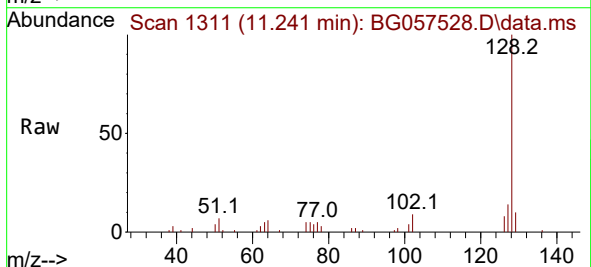
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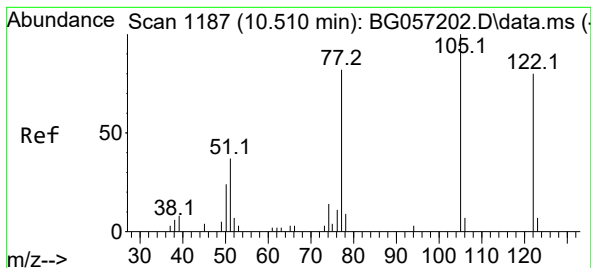
Tgt Ion: 82 Resp: 76652
Ion Ratio Lower Upper
82 100
128 38.2 29.0 43.4
54 45.1 41.4 62.0



#31
Naphthalene
Concen: 7.163 ng
RT: 11.241 min Scan# 1311
Delta R.T. -0.005 min
Lab File: BG057528.D
Acq: 23 May 2023 20:44

Tgt Ion:128 Resp: 31116
Ion Ratio Lower Upper
128 100
129 10.2 8.3 12.5
127 14.3 11.1 16.7





#32

Benzoic acid

Concen: 4.784 ng

RT: 10.654 min Scan# 1187

Delta R.T. 0.165 min

Lab File: BG057528.D

Acq: 23 May 2023 20:44

Instrument :

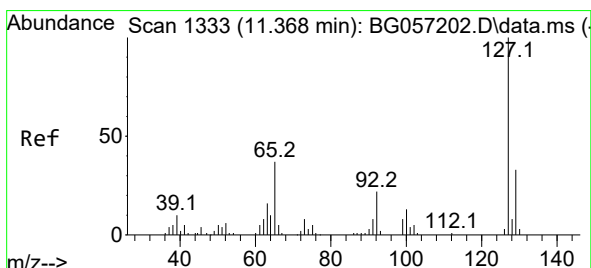
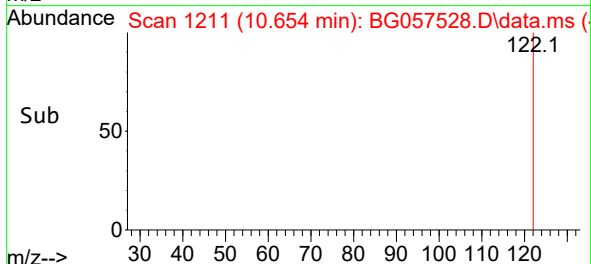
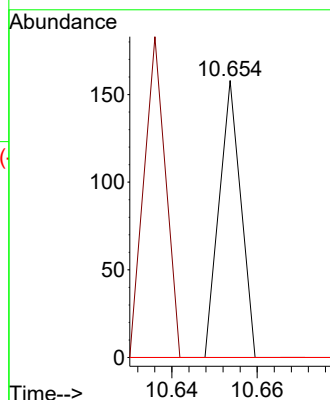
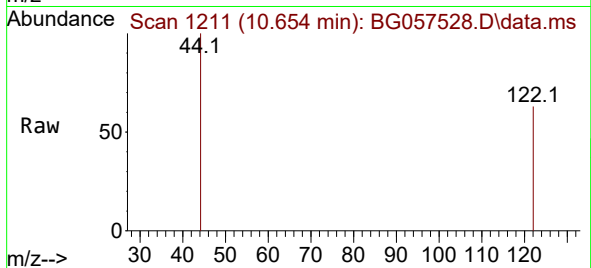
BNA_G

ClientSampleId :

TP-29

Tgt Ion:122 Resp: 56

Ion	Ratio	Lower	Upper
122	100		
105	0.0	105.2	145.2#
77	0.0	83.1	123.1#



#33

4-Chloroaniline

Concen: 2.238 ng

RT: 11.241 min Scan# 1311

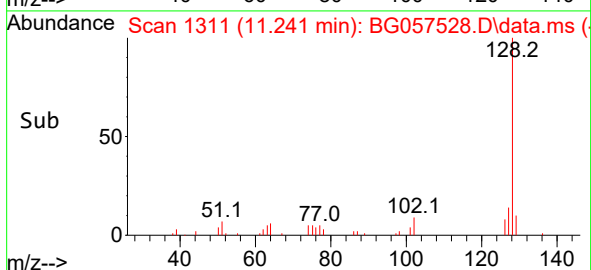
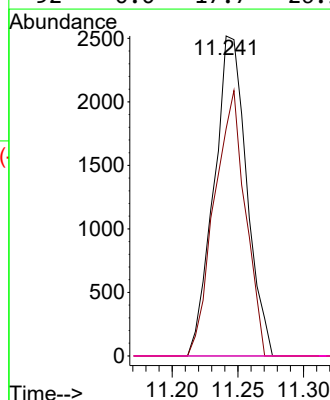
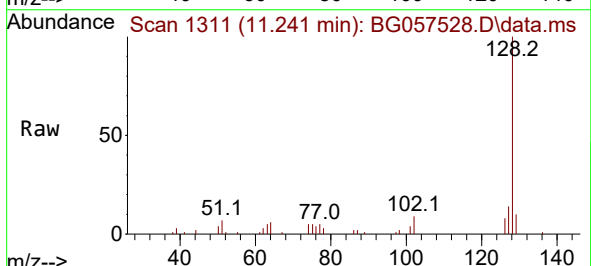
Delta R.T. -0.111 min

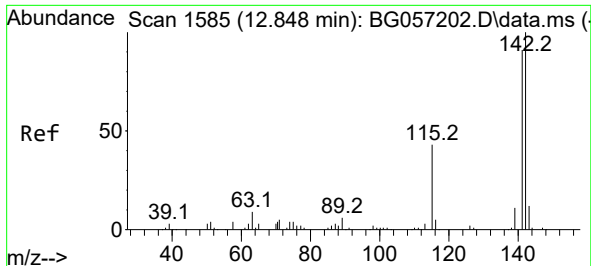
Lab File: BG057528.D

Acq: 23 May 2023 20:44

Tgt Ion:127 Resp: 4367

Ion	Ratio	Lower	Upper
127	100		
129	71.0	26.7	40.1#
65	0.0	29.7	44.5#
92	0.0	17.7	26.5#





#37

2-Methylnaphthalene

Concen: 2.816 ng

RT: 12.821 min Scan# 1

Delta R.T. -0.005 min

Lab File: BG057528.D

Acq: 23 May 2023 20:44

Instrument :

BNA_G

ClientSampleId :

TP-29

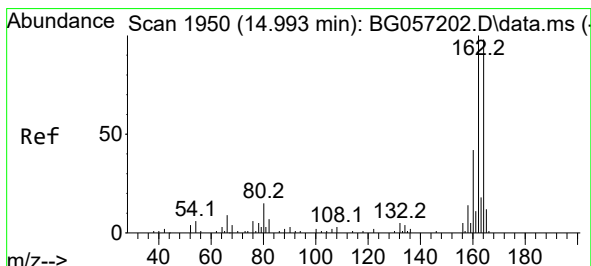
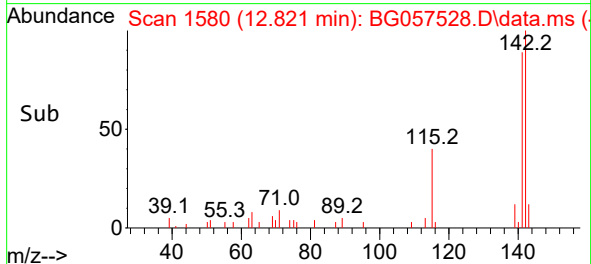
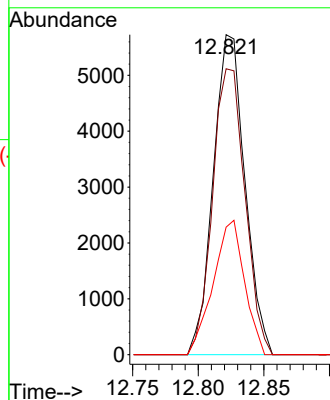
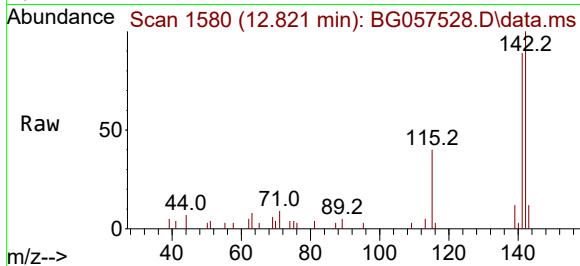
Tgt Ion:142 Resp: 9618

Ion Ratio Lower Upper

142 100

141 89.3 73.1 109.7

115 39.9 34.6 52.0



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.971 min Scan# 1946

Delta R.T. -0.005 min

Lab File: BG057528.D

Acq: 23 May 2023 20:44

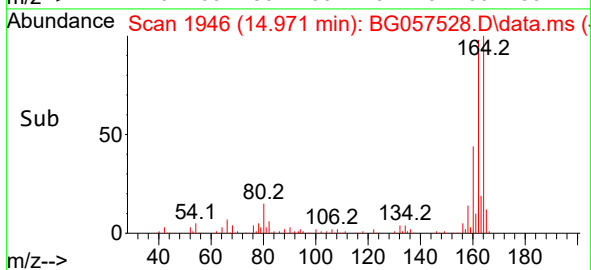
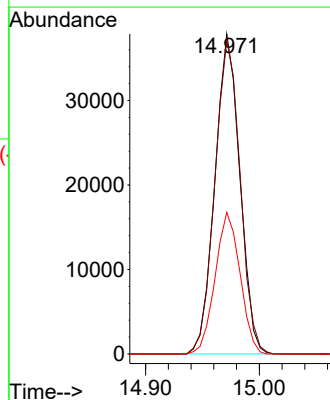
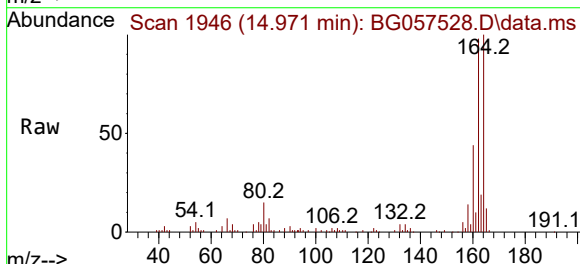
Tgt Ion:164 Resp: 57529

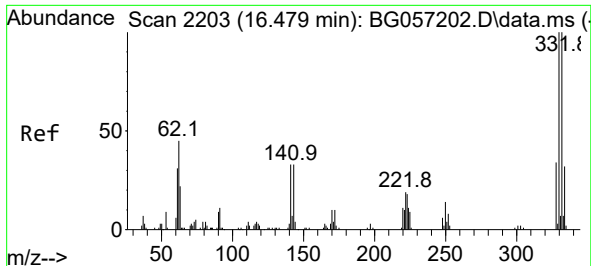
Ion Ratio Lower Upper

164 100

162 98.1 81.8 122.6

160 44.3 34.6 52.0





#42

2,4,6-Tribromophenol

Concen: 66.655 ng

RT: 16.458 min Scan# 2199

Delta R.T. 0.001 min

Lab File: BG057528.D

Acq: 23 May 2023 20:44

Instrument :

BNA_G

ClientSampleId :

TP-29

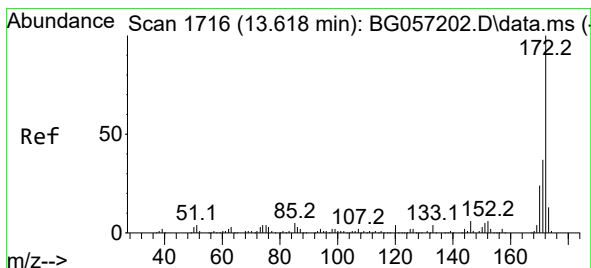
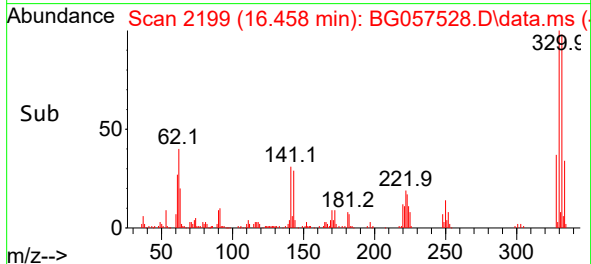
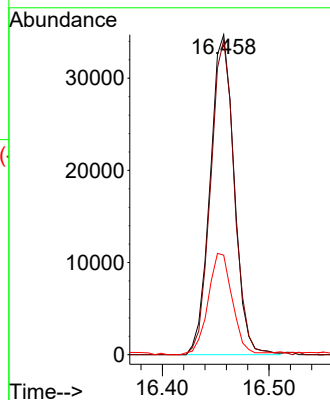
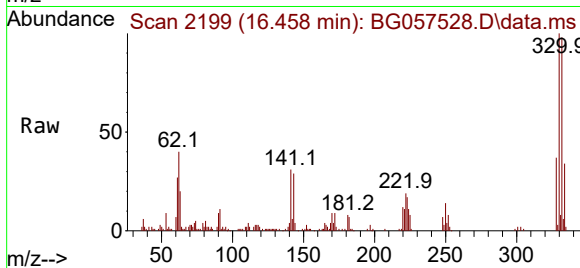
Tgt Ion:330 Resp: 54409

Ion Ratio Lower Upper

330 100

332 96.9 78.2 117.2

141 32.1 27.8 41.8



#45

2-Fluorobiphenyl

Concen: 37.194 ng

RT: 13.597 min Scan# 1712

Delta R.T. -0.005 min

Lab File: BG057528.D

Acq: 23 May 2023 20:44

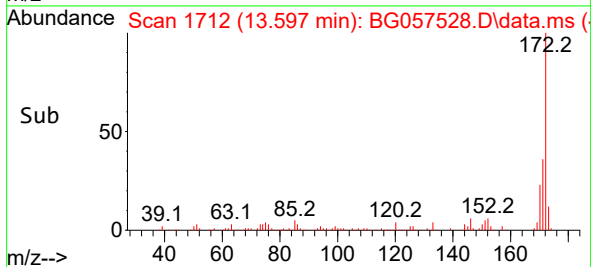
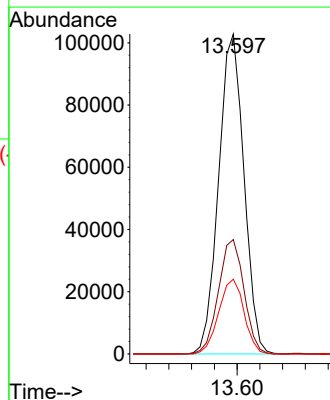
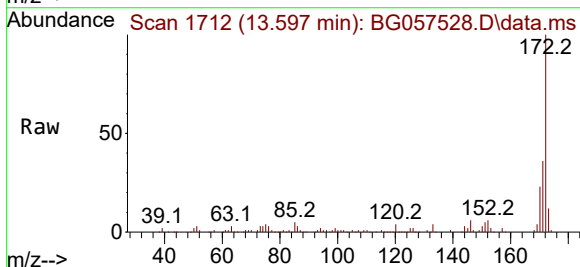
Tgt Ion:172 Resp: 158876

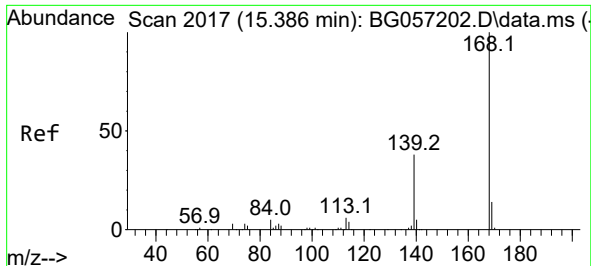
Ion Ratio Lower Upper

172 100

171 35.8 29.4 44.0

170 23.3 19.0 28.6

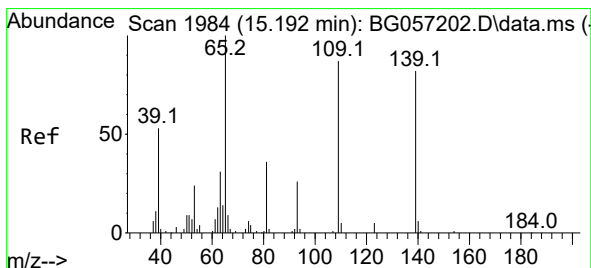
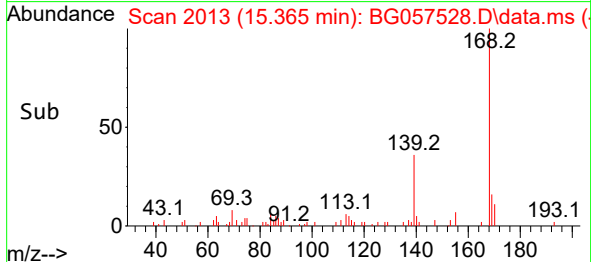
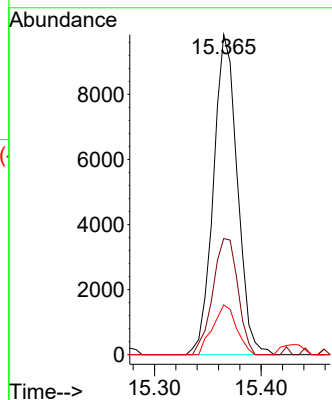
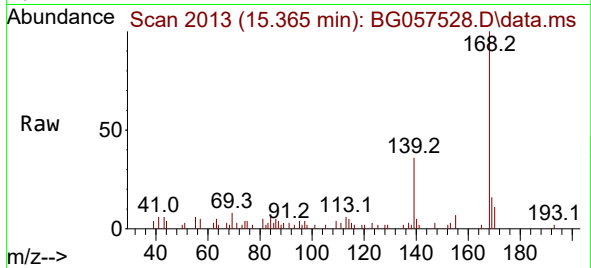




#55
Dibenzenofuran
Concen: 2.827 ng
RT: 15.365 min Scan# 2013
Delta R.T. -0.005 min
Lab File: BG057528.D
Acq: 23 May 2023 20:44

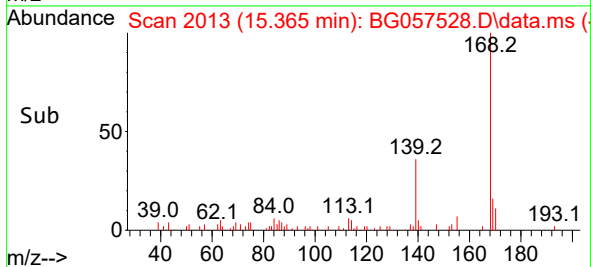
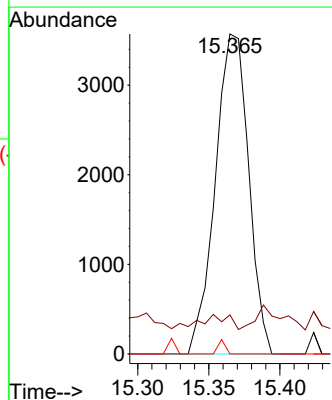
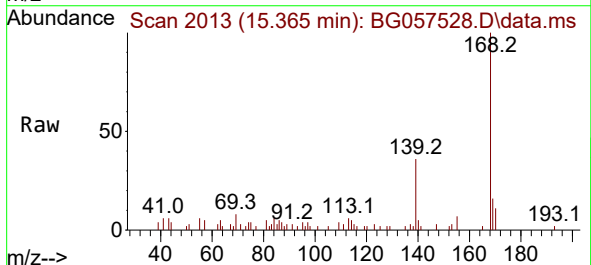
Instrument :
BNA_G
ClientSampleId :
TP-29

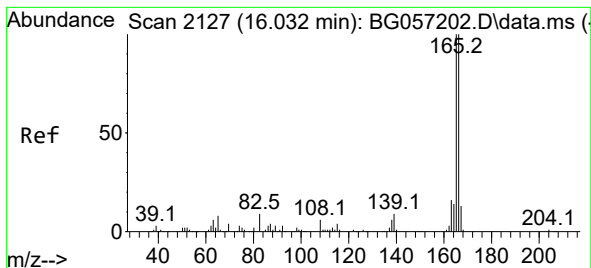
Tgt Ion:168 Resp: 15307
Ion Ratio Lower Upper
168 100
139 36.3 30.7 46.1
169 15.6 10.9 16.3



#56
4-Nitrophenol
Concen: 9.056 ng
RT: 15.365 min Scan# 2013
Delta R.T. 0.183 min
Lab File: BG057528.D
Acq: 23 May 2023 20:44

Tgt Ion:139 Resp: 5824
Ion Ratio Lower Upper
139 100
109 12.2 86.6 126.6#
65 0.0 102.6 142.6#





#58

Fluorene

Concen: 2.730 ng

RT: 16.011 min Scan# 2127

Delta R.T. -0.005 min

Lab File: BG057528.D

Acq: 23 May 2023 20:44

Instrument :

BNA_G

ClientSampleId :

TP-29

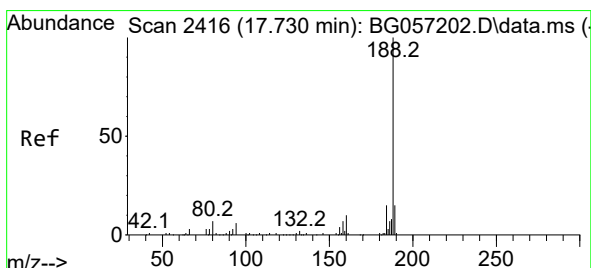
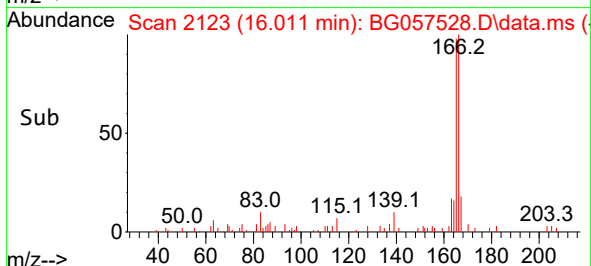
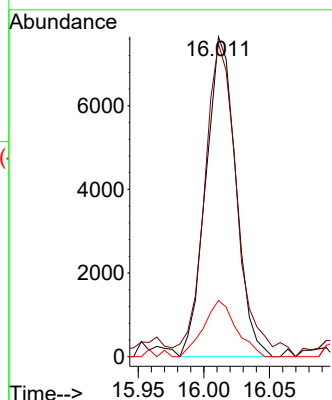
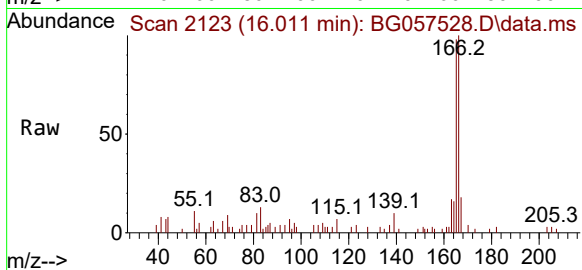
Tgt Ion:166 Resp: 12175

Ion Ratio Lower Upper

166 100

165 97.8 80.1 120.1

167 17.5 10.2 15.2#



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.715 min Scan# 2413

Delta R.T. 0.001 min

Lab File: BG057528.D

Acq: 23 May 2023 20:44

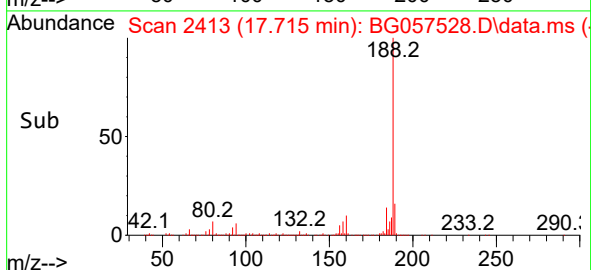
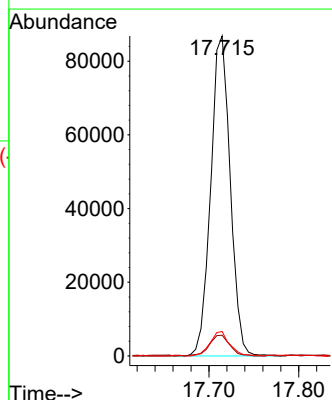
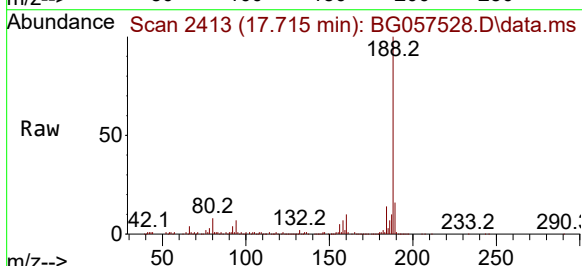
Tgt Ion:188 Resp: 130975

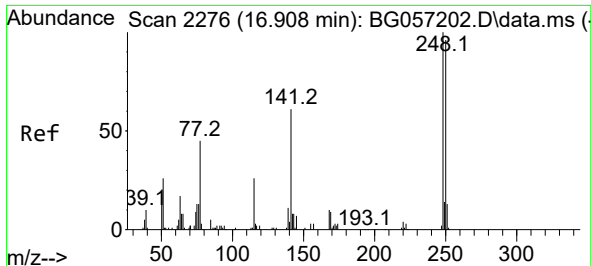
Ion Ratio Lower Upper

188 100

94 6.5 5.1 7.7

80 7.6 5.7 8.5

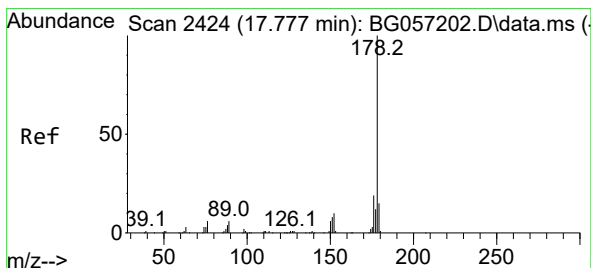
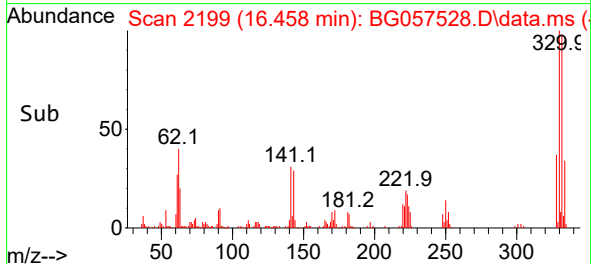
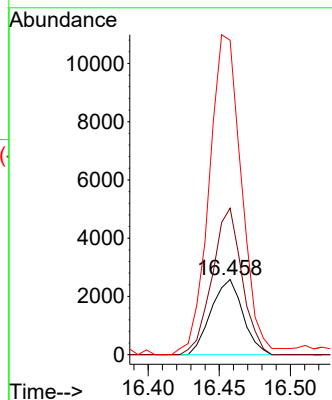
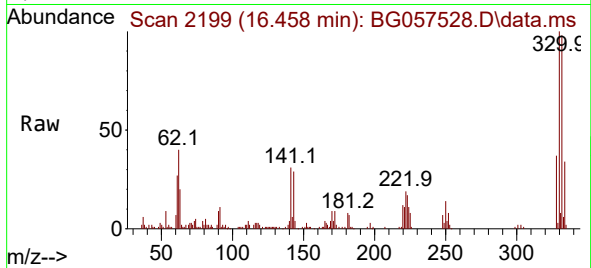




#67
4-Bromophenyl-phenylether
Concen: 2.509 ng
RT: 16.458 min Scan# 2199
Delta R.T. -0.428 min
Lab File: BG057528.D
Acq: 23 May 2023 20:44

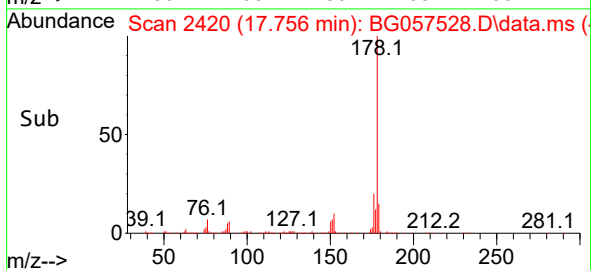
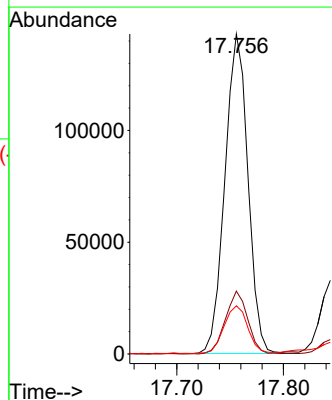
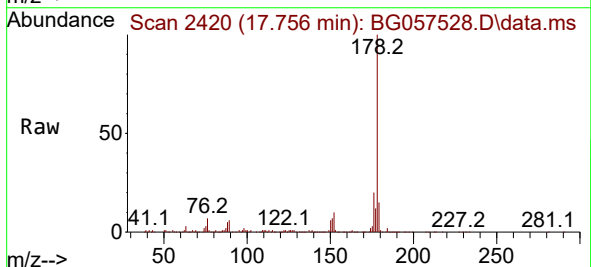
Instrument :
BNA_G
ClientSampleId :
TP-29

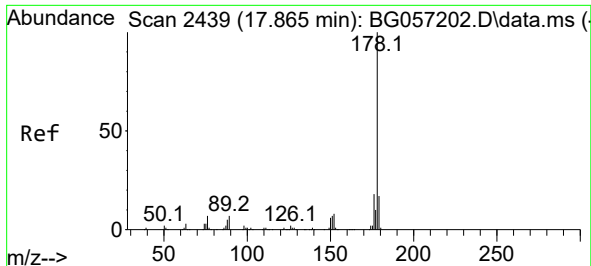
Tgt Ion:248 Resp: 4011
Ion Ratio Lower Upper
248 100
250 194.8 77.0 115.6#
141 417.7 48.6 72.8#



#71
Phenanthrene
Concen: 31.899 ng
RT: 17.756 min Scan# 2420
Delta R.T. 0.001 min
Lab File: BG057528.D
Acq: 23 May 2023 20:44

Tgt Ion:178 Resp: 214089
Ion Ratio Lower Upper
178 100
176 19.7 15.4 23.2
179 15.0 12.3 18.5

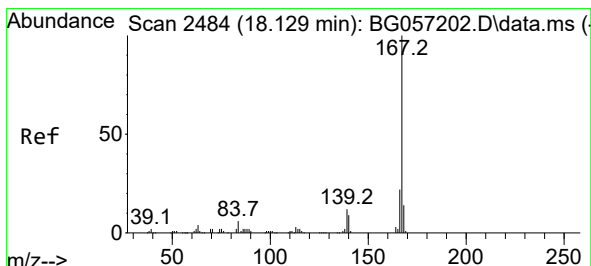
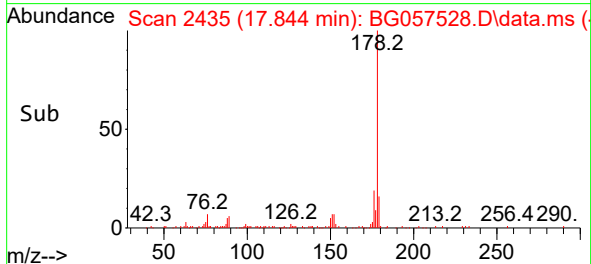
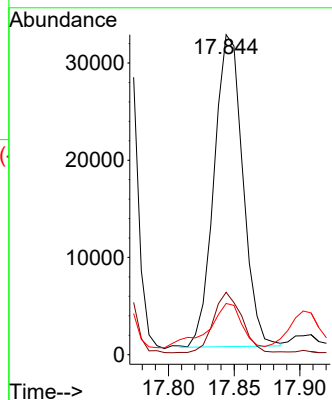
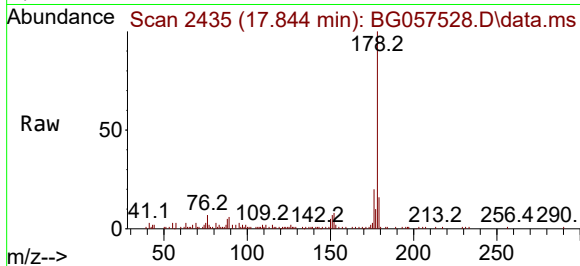




#72
 Anthracene
 Concen: 7.093 ng
 RT: 17.844 min Scan# 2435
 Delta R.T. -0.005 min
 Lab File: BG057528.D
 Acq: 23 May 2023 20:44

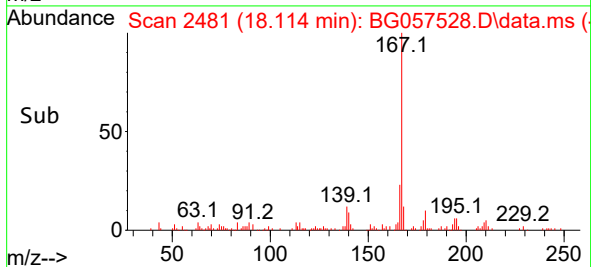
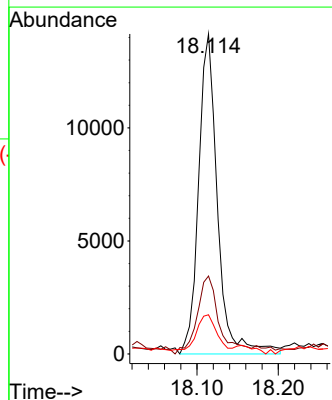
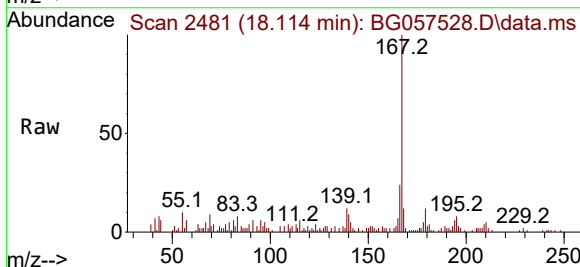
Instrument :
 BNA_G
 ClientSampleId :
 TP-29

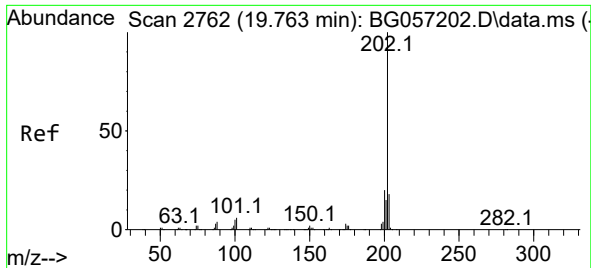
Tgt Ion:178 Resp: 48845
 Ion Ratio Lower Upper
 178 100
 176 19.5 14.7 22.1
 179 16.0 13.2 19.8



#73
 Carbazole
 Concen: 3.947 ng
 RT: 18.114 min Scan# 2481
 Delta R.T. 0.001 min
 Lab File: BG057528.D
 Acq: 23 May 2023 20:44

Tgt Ion:167 Resp: 22881
 Ion Ratio Lower Upper
 167 100
 166 24.4 17.4 26.0
 139 12.3 9.6 14.4

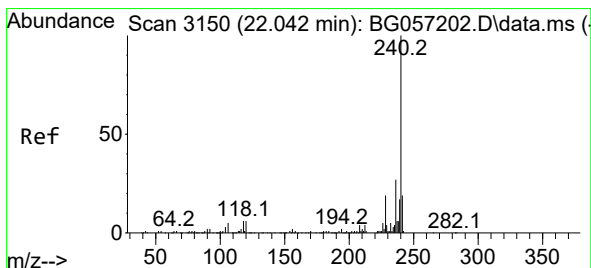
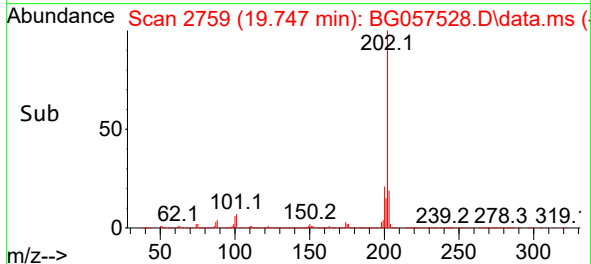
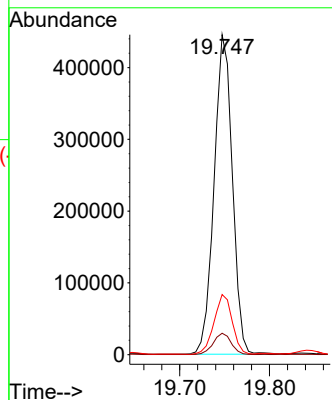
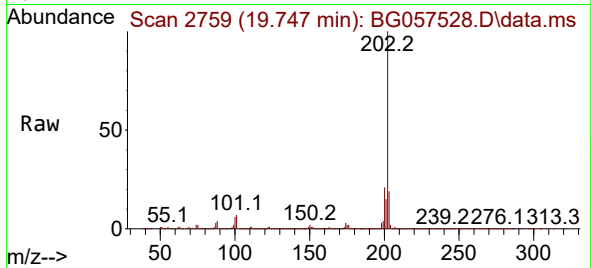




#75
Fluoranthene
Concen: 75.373 ng
RT: 19.747 min Scan# 21
Delta R.T. 0.001 min
Lab File: BG057528.D
Acq: 23 May 2023 20:44

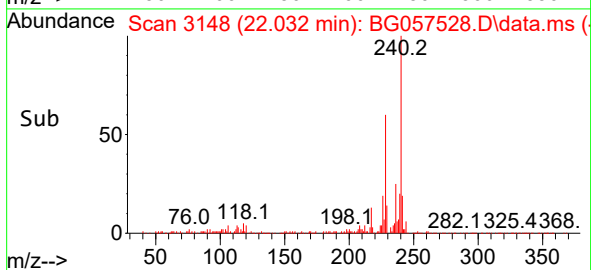
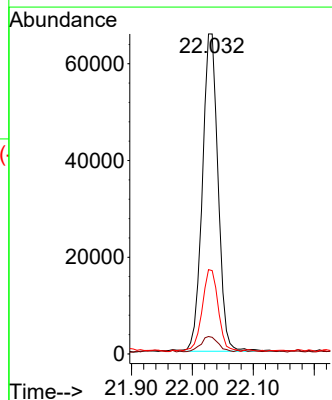
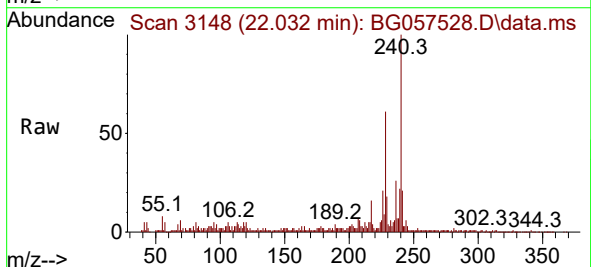
Instrument :
BNA_G
ClientSampleId :
TP-29

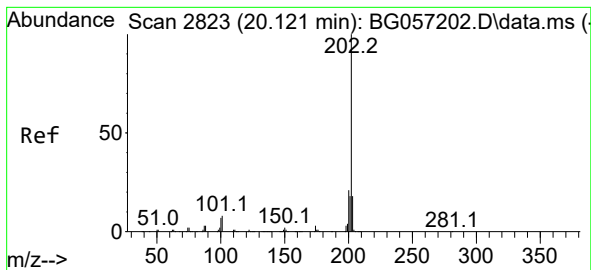
Tgt Ion:202 Resp: 629155
Ion Ratio Lower Upper
202 100
101 6.7 0.0 26.2
203 18.8 0.0 37.9



#76
Chrysene-d12
Concen: 20.000 ng
RT: 22.032 min Scan# 3148
Delta R.T. 0.013 min
Lab File: BG057528.D
Acq: 23 May 2023 20:44

Tgt Ion:240 Resp: 117474
Ion Ratio Lower Upper
240 100
120 5.2 4.9 7.3
236 26.0 21.4 32.2





#78

Pyrene

Concen: 75.323 ng

RT: 20.111 min Scan# 2

Delta R.T. 0.007 min

Lab File: BG057528.D

Acq: 23 May 2023 20:44

Instrument :

BNA_G

ClientSampleId :

TP-29

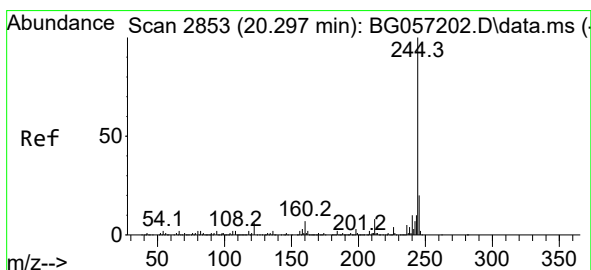
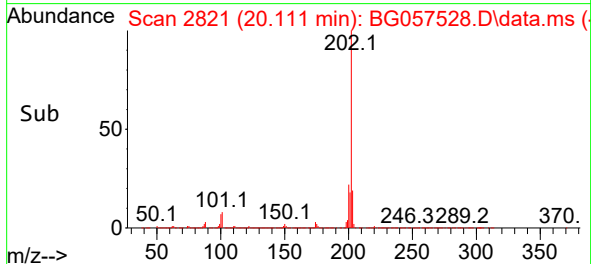
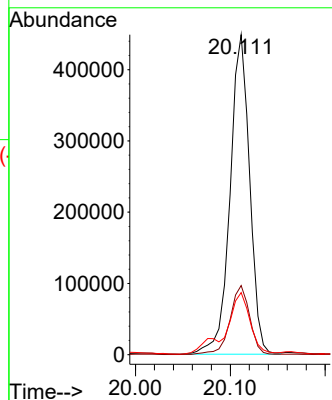
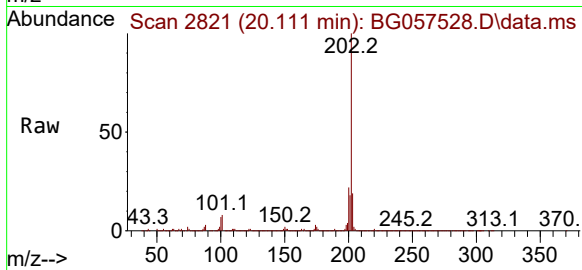
Tgt Ion:202 Resp: 642983

Ion Ratio Lower Upper

202 100

200 21.6 17.0 25.4

203 19.4 14.2 21.4



#79

Terphenyl-d14

Concen: 31.157 ng

RT: 20.282 min Scan# 2850

Delta R.T. 0.001 min

Lab File: BG057528.D

Acq: 23 May 2023 20:44

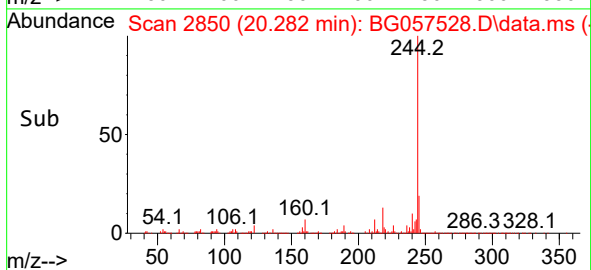
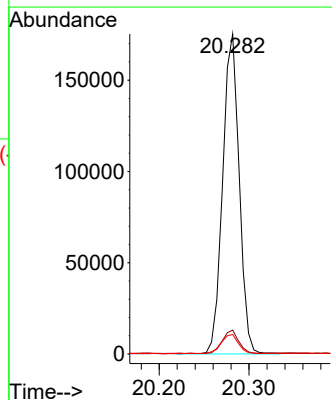
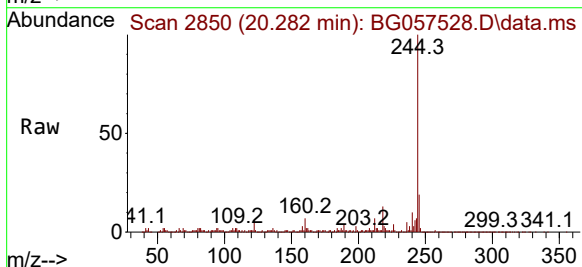
Tgt Ion:244 Resp: 224286

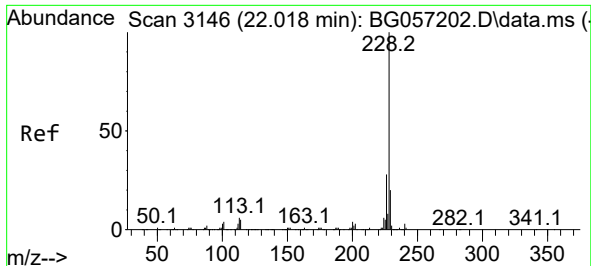
Ion Ratio Lower Upper

244 100

212 7.4 6.1 9.1

122 6.1 5.1 7.7

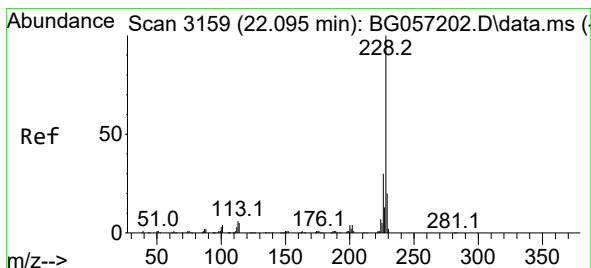
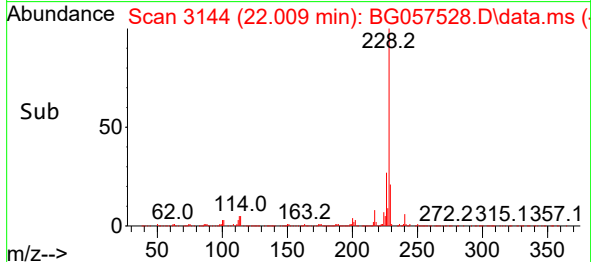
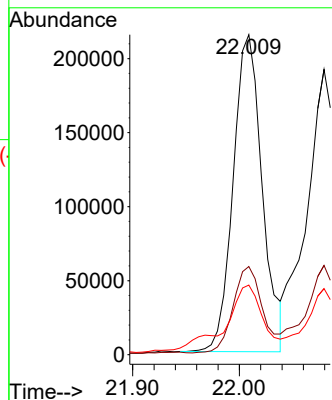
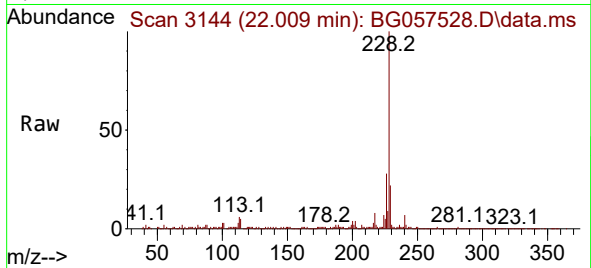




#81
Benzo(a)anthracene
Concen: 48.401 ng
RT: 22.009 min Scan# 3144
Delta R.T. 0.013 min
Lab File: BG057528.D
Acq: 23 May 2023 20:44

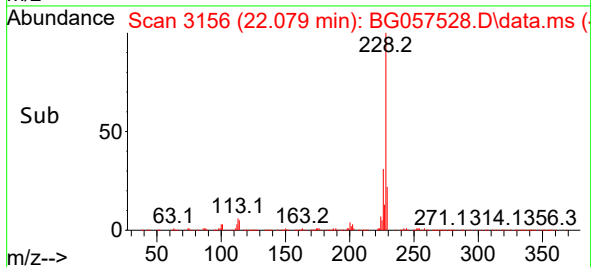
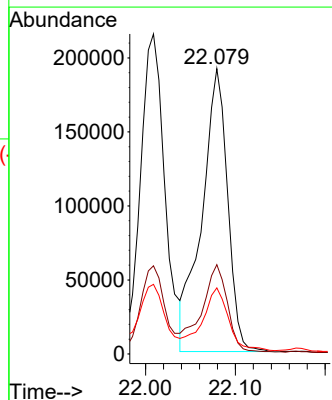
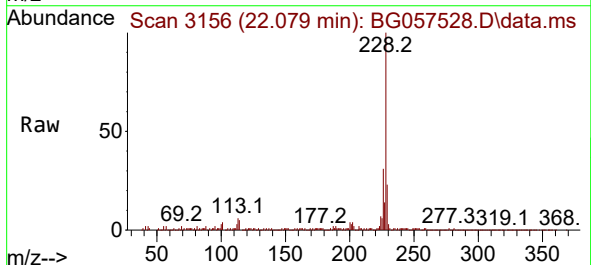
Instrument :
BNA_G
ClientSampleId :
TP-29

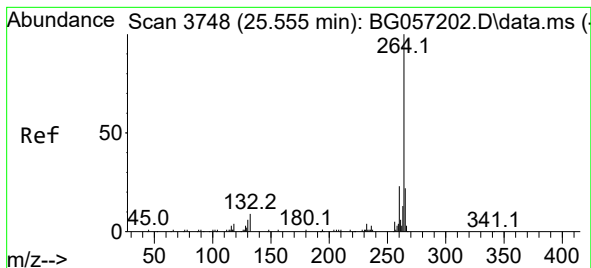
Tgt Ion:228 Resp: 405098
Ion Ratio Lower Upper
228 100
226 27.5 22.0 33.0
229 21.8 15.8 23.8



#83
Chrysene
Concen: 48.357 ng
RT: 22.079 min Scan# 3156
Delta R.T. 0.007 min
Lab File: BG057528.D
Acq: 23 May 2023 20:44

Tgt Ion:228 Resp: 380807
Ion Ratio Lower Upper
228 100
226 31.3 24.3 36.5
229 23.2 15.9 23.9





#86

Perylene-d12

Concen: 20.000 ng

RT: 25.551 min Scan# 31

Delta R.T. 0.036 min

Lab File: BG057528.D

Acq: 23 May 2023 20:44

Instrument :

BNA_G

ClientSampleId :

TP-29

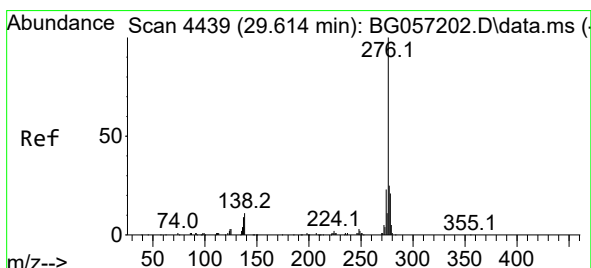
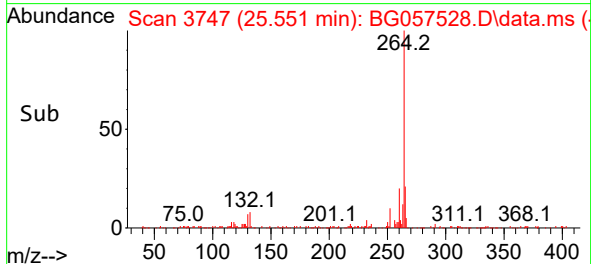
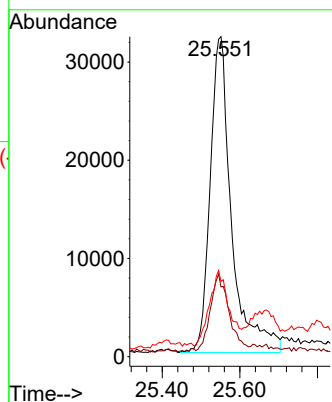
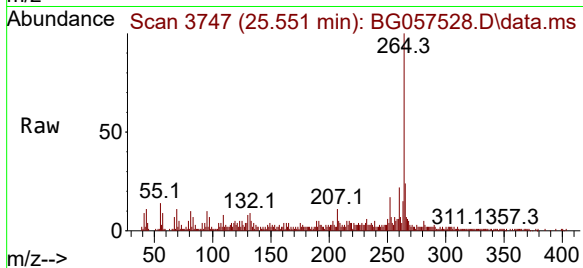
Tgt Ion:264 Resp: 123647

Ion Ratio Lower Upper

264 100

260 21.8 18.8 28.2

265 23.6 17.9 26.9



#87

Indeno(1,2,3-cd)pyrene

Concen: 20.517 ng

RT: 29.604 min Scan# 4437

Delta R.T. 0.042 min

Lab File: BG057528.D

Acq: 23 May 2023 20:44

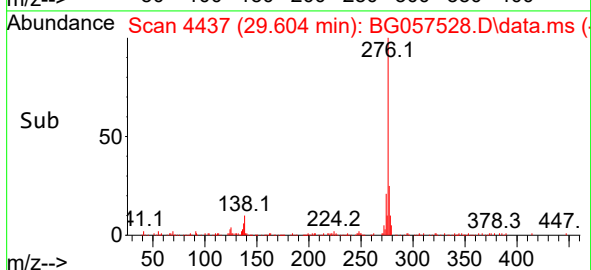
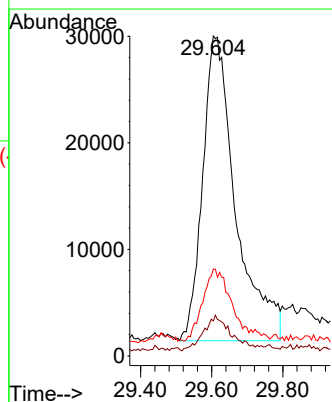
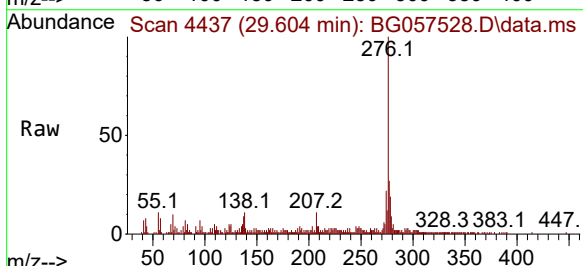
Tgt Ion:276 Resp: 184890

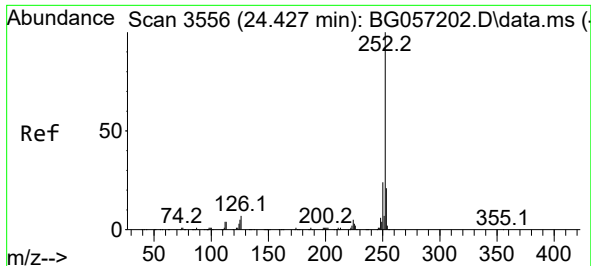
Ion Ratio Lower Upper

276 100

138 9.7 5.4 8.0#

277 21.7 20.6 30.8

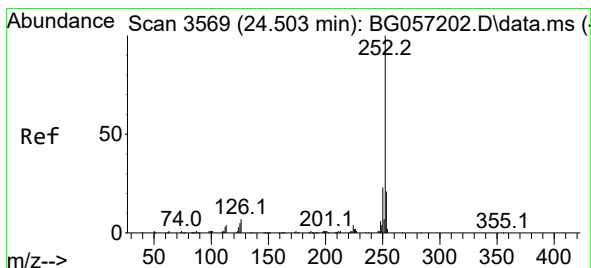
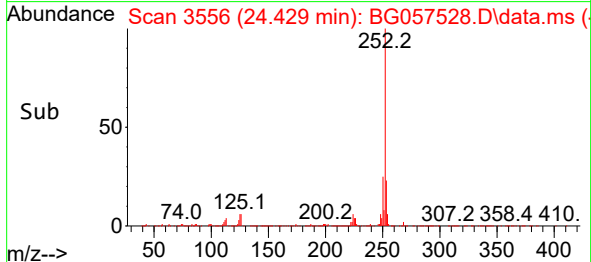
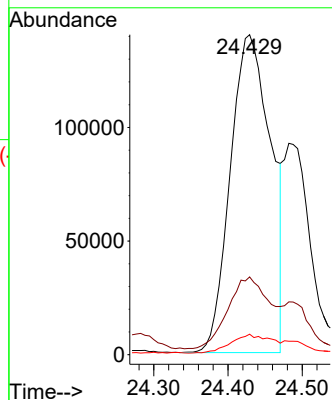
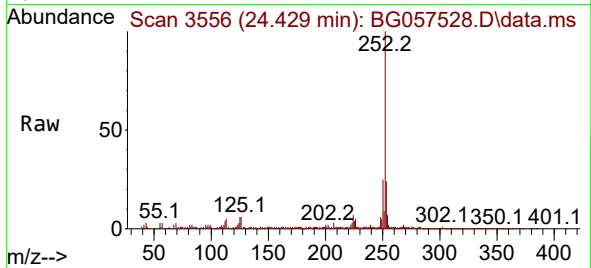




#88
Benzo(b)fluoranthene
Concen: 65.801 ng
RT: 24.429 min Scan# 3556
Delta R.T. 0.036 min
Lab File: BG057528.D
Acq: 23 May 2023 20:44

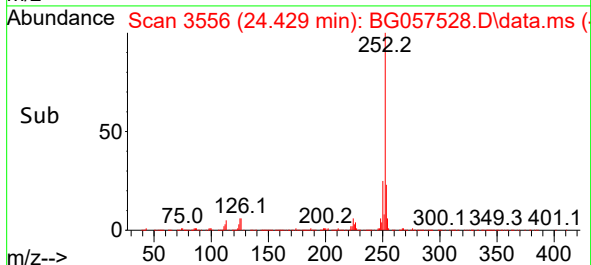
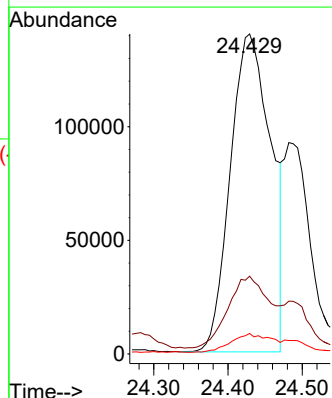
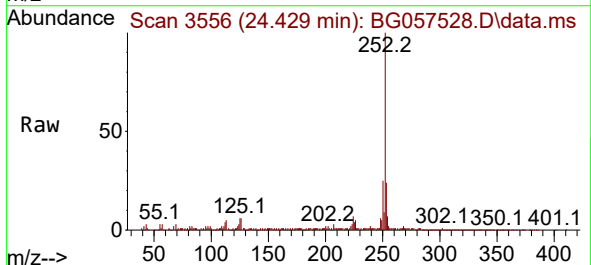
Instrument :
BNA_G
ClientSampleId :
TP-29

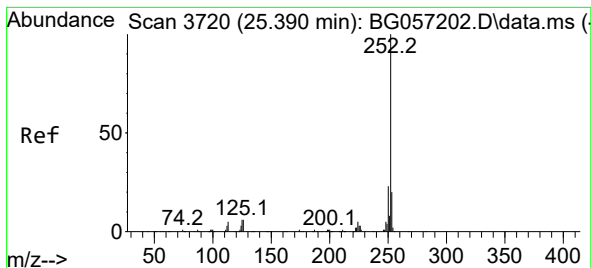
Tgt Ion:252 Resp: 531851
Ion Ratio Lower Upper
252 100
253 24.3 17.0 25.6
125 6.4 4.2 6.2#



#89
Benzo(k)fluoranthene
Concen: 64.753 ng
RT: 24.429 min Scan# 3556
Delta R.T. -0.040 min
Lab File: BG057528.D
Acq: 23 May 2023 20:44

Tgt Ion:252 Resp: 531851
Ion Ratio Lower Upper
252 100
253 24.3 17.4 26.0
125 6.4 4.1 6.1#





#90

Benzo(a)pyrene

Concen: 56.550 ng

RT: 25.387 min Scan# 31

Delta R.T. 0.030 min

Lab File: BG057528.D

Acq: 23 May 2023 20:44

Instrument :

BNA_G

ClientSampleId :

TP-29

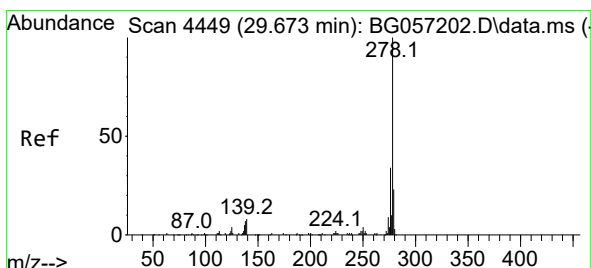
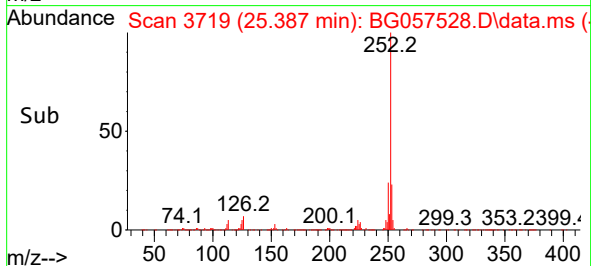
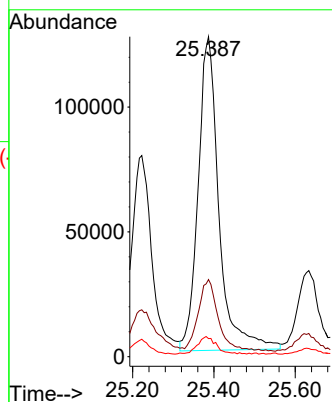
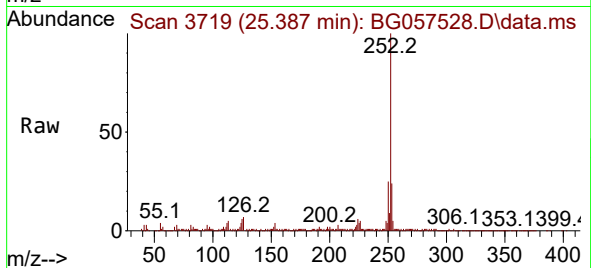
Tgt Ion:252 Resp: 446548

Ion Ratio Lower Upper

252 100

253 24.1 16.3 24.5

125 5.7 5.0 7.4



#91

Dibenzo(a,h)anthracene

Concen: 5.724 ng

RT: 29.640 min Scan# 4443

Delta R.T. 0.030 min

Lab File: BG057528.D

Acq: 23 May 2023 20:44

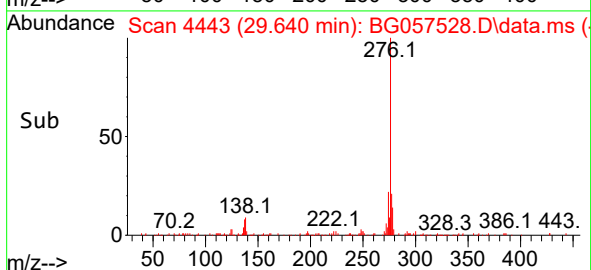
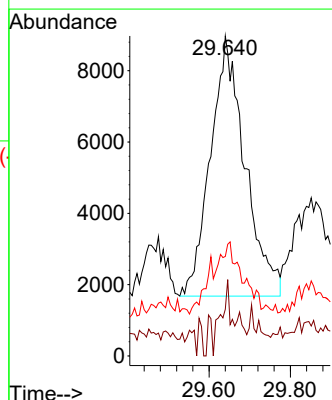
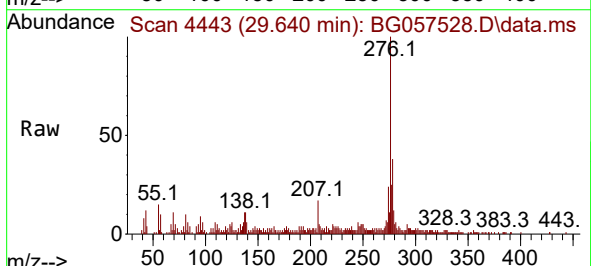
Tgt Ion:278 Resp: 42959

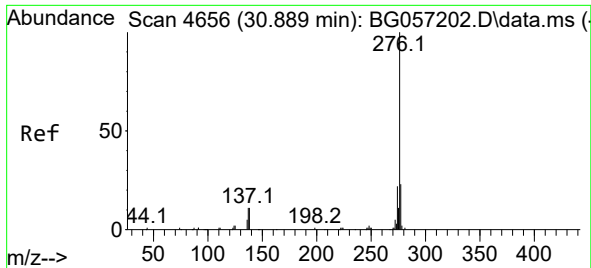
Ion Ratio Lower Upper

278 100

139 14.6 6.2 9.2#

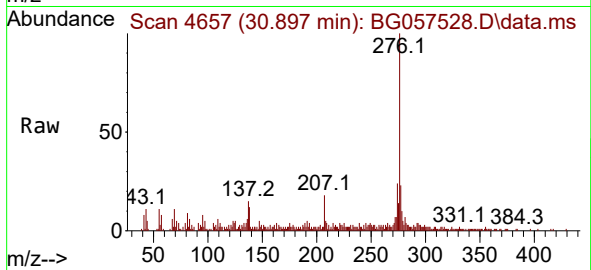
279 31.1 18.6 27.8#





#92
Benzo(g,h,i)perylene
Concen: 20.523 ng
RT: 30.897 min Scan# 4
Delta R.T. 0.060 min
Lab File: BG057528.D
Acq: 23 May 2023 20:44

Instrument :
BNA_G
ClientSampleId :
TP-29



Tgt Ion:276 Resp: 150388
Ion Ratio Lower Upper
276 100
277 23.0 18.4 27.6
138 11.8 9.0 13.4

