

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG112822\
 Data File : BG055814.D
 Acq On : 28 Nov 2022 21:13
 Operator : CG/JU
 Sample : N5772-02 2X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 LOCATION-2

Quant Time: Nov 29 02:15:08 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG111622.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 29 02:02:15 2022
 Response via : Initial Calibration

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

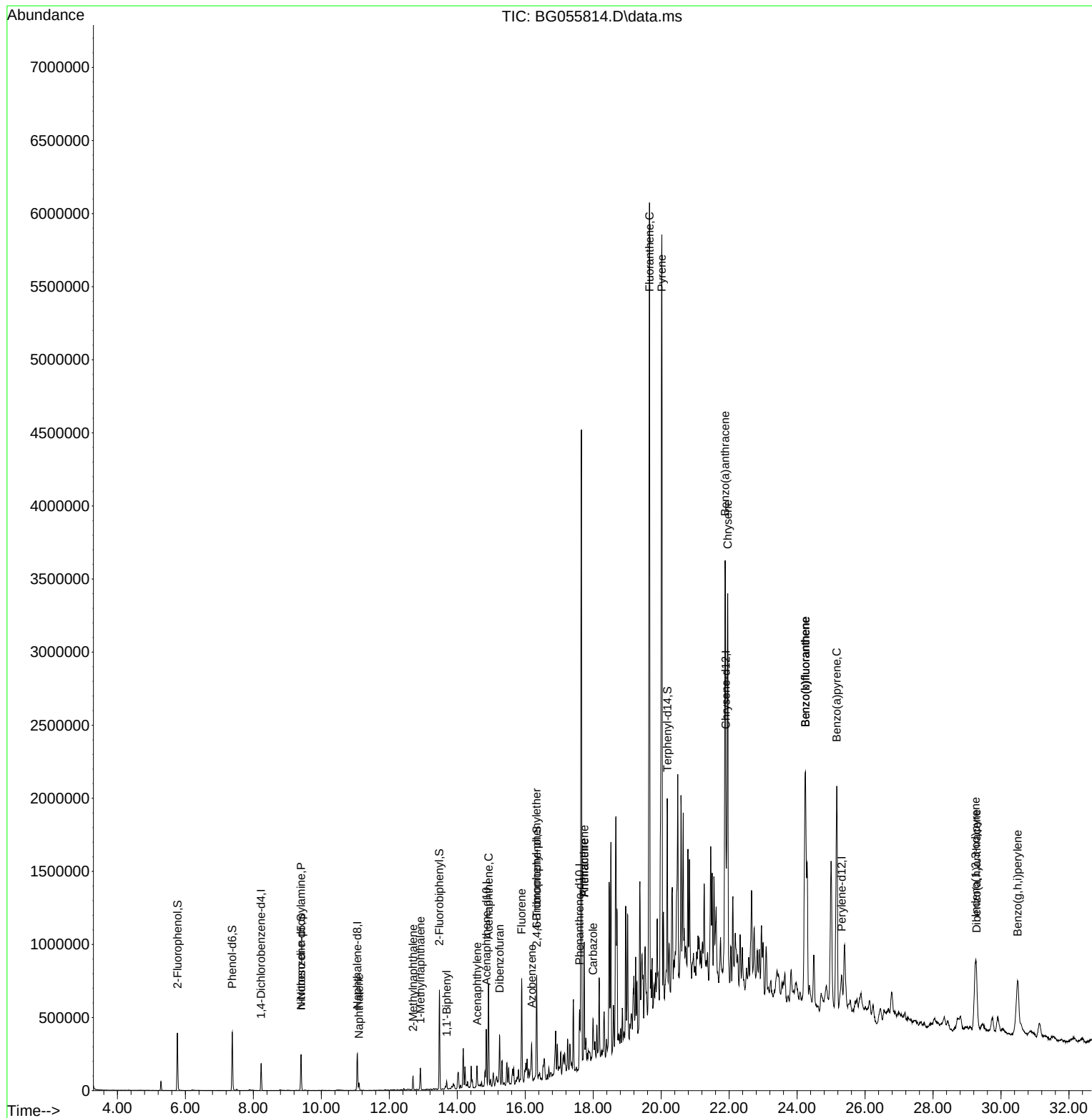
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.229	152	51582	20.000	ng	0.00
21) Naphthalene-d8	11.061	136	216879	20.000	ng	0.00
39) Acenaphthene-d10	14.856	164	144587	20.000	ng	0.00
64) Phenanthrene-d10	17.600	188	296997	20.000	ng	0.00
76) Chrysene-d12	21.901	240	267810	20.000	ng	0.00
86) Perylene-d12	25.315	264	314853	20.000	ng	# 0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.767	112	179370	62.854	ng	0.00
7) Phenol-d6	7.377	99	232051	61.085	ng	0.00
23) Nitrobenzene-d5	9.404	82	142845	34.812	ng	0.00
42) 2,4,6-Tribromophenol	16.343	330	110859	54.450	ng	0.00
45) 2-Fluorobiphenyl	13.476	172	352165	36.489	ng	0.00
79) Terphenyl-d14	20.186	244	500888	37.409	ng	0.00
Target Compounds						
						Qvalue
19) n-Nitroso-di-n-propyla...	9.404	70	20084	6.881	ng	# 76
31) Naphthalene	11.108	128	41131	3.508	ng	98
37) 2-Methylnaphthalene	12.700	142	45789	5.216	ng	99
38) 1-Methylnaphthalene	12.918	142	72507	8.508	ng	99
46) 1,1'-Biphenyl	13.687	154	28424	2.698	ng	94
49) Acenaphthylene	14.586	152	99353	7.367	ng	# 96
52) Acenaphthene	14.921	154	253099	28.716	ng	100
55) Dibenzofuran	15.250	168	163165	12.000	ng	# 97
58) Fluorene	15.896	166	325202	29.946	ng	98
63) Azobenzene	16.196	77	22902	2.251	ng	# 1
67) 4-Bromophenyl-phenylether	16.337	248	7456	2.203	ng	# 1
71) Phenanthrene	17.735	178	563121	35.135	ng	98
72) Anthracene	17.735	178	563121	36.162	ng	98
73) Carbazole	18.000	167	161115	11.509	ng	96
75) Fluoranthene	19.657	202	3935536	201.840	ng	88
78) Pyrene	20.021	202	3807261	210.026	ng	# 85
81) Benzo(a)anthracene	21.884	228	2067873	112.106	ng	93
83) Chrysene	21.960	228	2083101	118.627	ng	93
87) Indeno(1,2,3-cd)pyrene	29.251	276	1009117	39.123	ng	97
88) Benzo(b)fluoranthene	24.245	252	2267686	110.592	ng	96
89) Benzo(k)fluoranthene	24.245	252	2267686	110.947	ng	95
90) Benzo(a)pyrene	25.168	252	1902618	108.129	ng	96
91) Dibenzo(a,h)anthracene	29.287	278	252428	11.976	ng	94
92) Benzo(g,h,i)perylene	30.491	276	1028141	48.397	ng	99

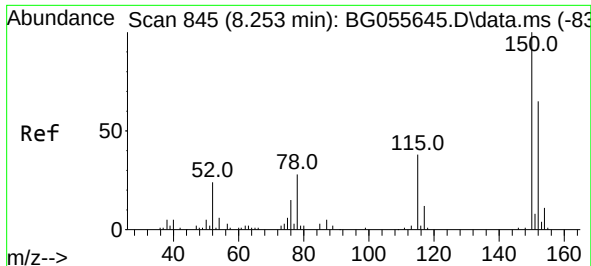
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG112822\
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BNA_G
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Quant Time: Nov 29 02:15:08 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG11622.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 29 02:02:15 2022
Response via : Initial Calibration

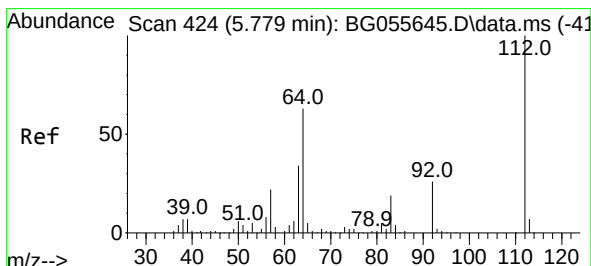
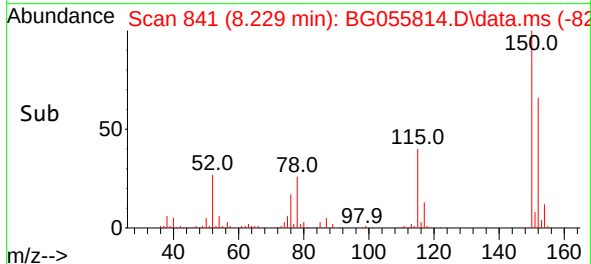
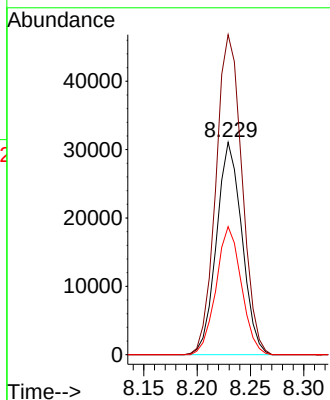
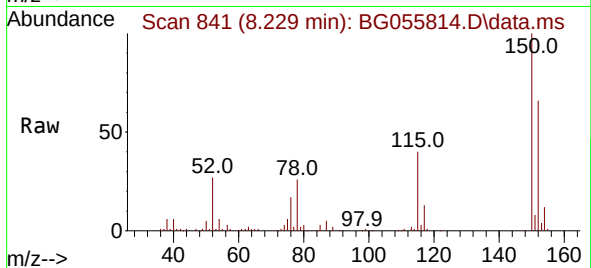




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.229 min Scan# 845
Delta R.T. -0.002 min
Lab File: BG055814.D
Acq: 28 Nov 2022 21:13

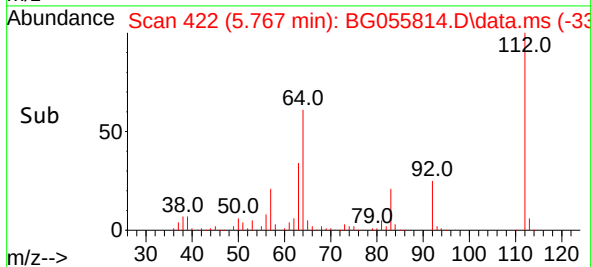
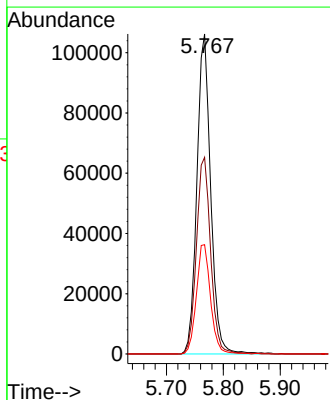
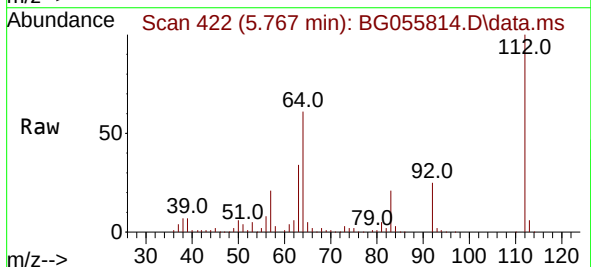
Instrument :
BNA_G
ClientSampleId :
LOCATION-2

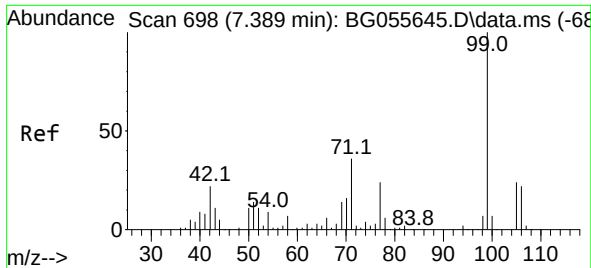
Tgt Ion:152 Resp: 51582
Ion Ratio Lower Upper
152 100
150 150.7 123.0 184.6
115 60.3 47.0 70.4



#5
2-Fluorophenol
Concen: 62.854 ng
RT: 5.767 min Scan# 422
Delta R.T. 0.009 min
Lab File: BG055814.D
Acq: 28 Nov 2022 21:13

Tgt Ion:112 Resp: 179370
Ion Ratio Lower Upper
112 100
64 61.5 50.6 76.0
63 34.2 27.5 41.3

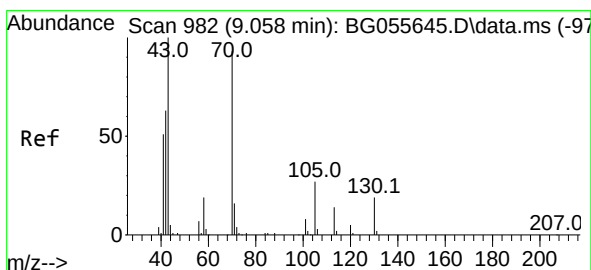
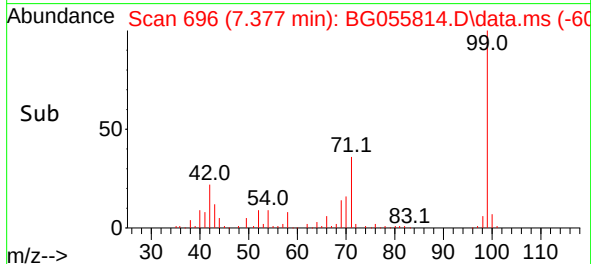
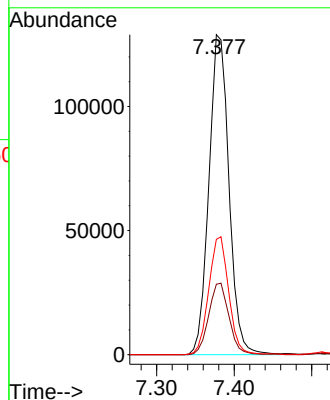
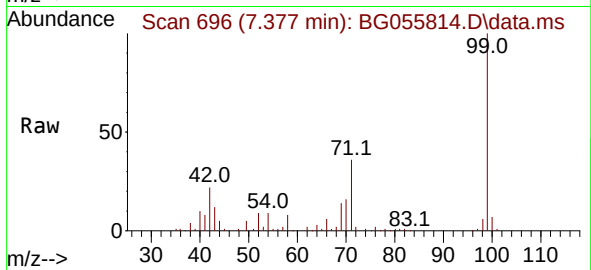




#7
Phenol-d6
Concen: 61.085 ng
RT: 7.377 min Scan# 696
Delta R.T. -0.002 min
Lab File: BG055814.D
Acq: 28 Nov 2022 21:13

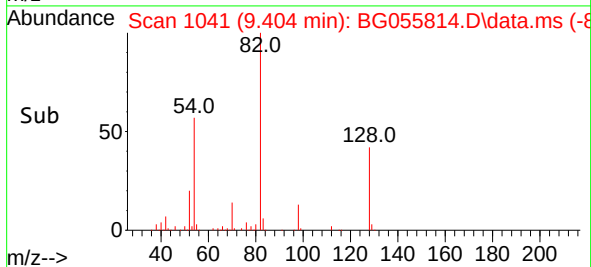
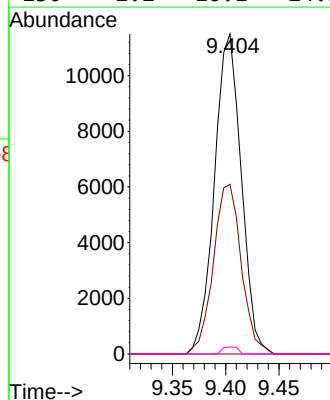
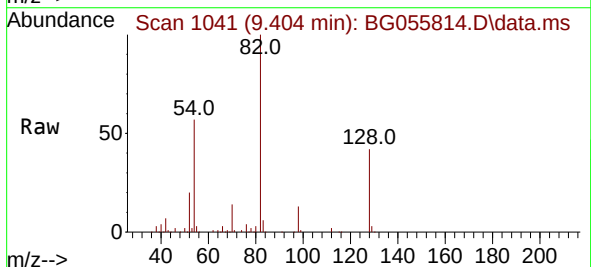
Instrument :
BNA_G
ClientSampleId :
LOCATION-2

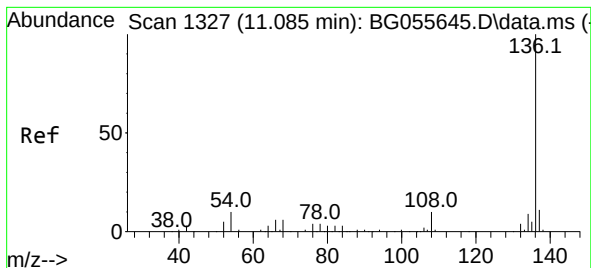
Tgt Ion: 99 Resp: 232051
Ion Ratio Lower Upper
99 100
42 22.0 18.0 27.0
71 36.1 29.0 43.6



#19
n-Nitroso-di-n-propylamine
Concen: 6.881 ng
RT: 9.404 min Scan# 1041
Delta R.T. 0.368 min
Lab File: BG055814.D
Acq: 28 Nov 2022 21:13

Tgt Ion: 70 Resp: 20084
Ion Ratio Lower Upper
70 100
42 53.0 55.2 82.8#
101 0.0 7.1 10.7#
130 2.2 16.1 24.1#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 11.061 min Scan# 11

Delta R.T. -0.002 min

Lab File: BG055814.D

Acq: 28 Nov 2022 21:13

Instrument :

BNA_G

ClientSampleId :

LOCATION-2

Tgt Ion:136 Resp: 216879

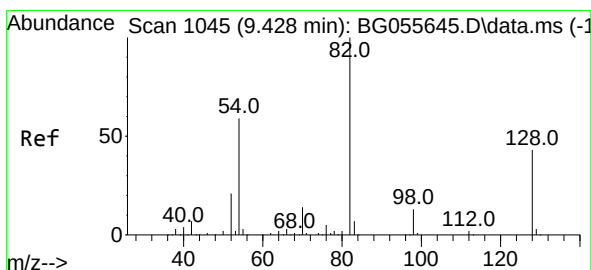
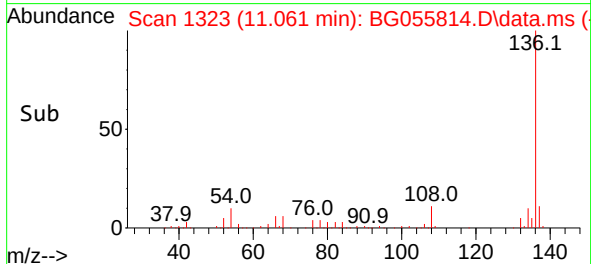
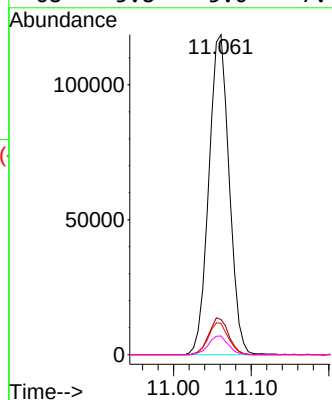
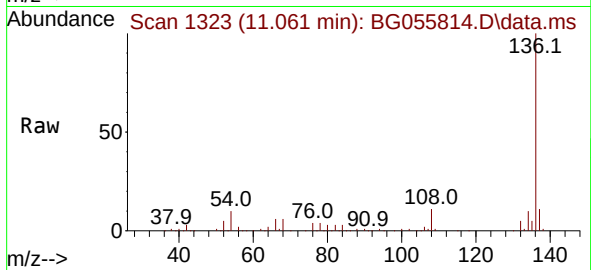
Ion Ratio Lower Upper

136 100

137 11.0 9.0 13.6

54 9.8 7.8 11.6

68 5.8 5.0 7.4



#23

Nitrobenzene-d5

Concen: 34.812 ng

RT: 9.404 min Scan# 1041

Delta R.T. -0.002 min

Lab File: BG055814.D

Acq: 28 Nov 2022 21:13

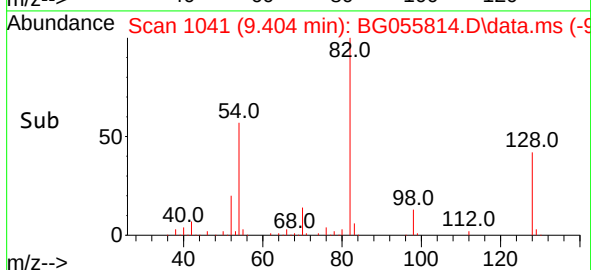
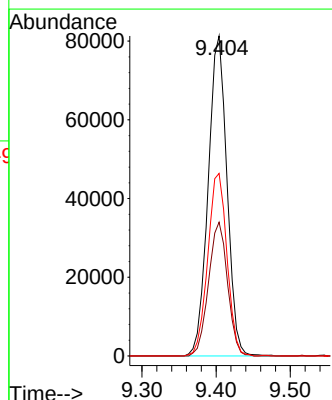
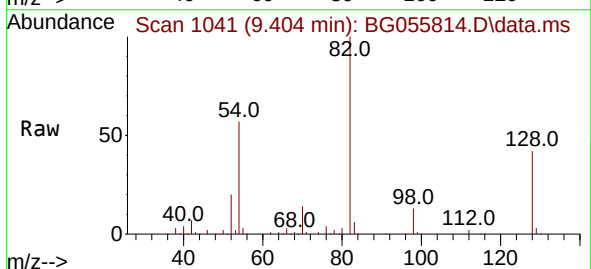
Tgt Ion: 82 Resp: 142845

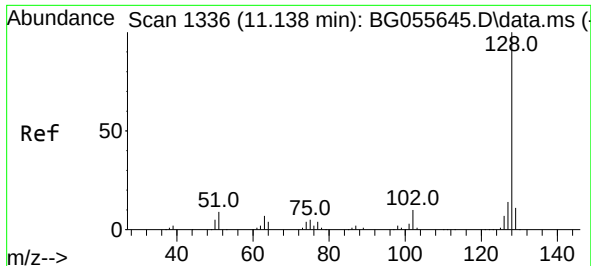
Ion Ratio Lower Upper

82 100

128 41.8 34.1 51.1

54 57.0 47.3 70.9

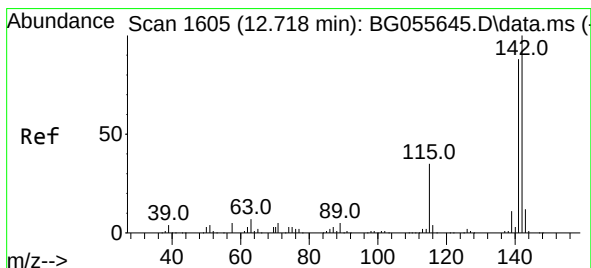
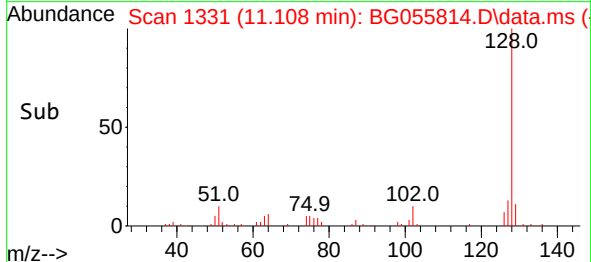
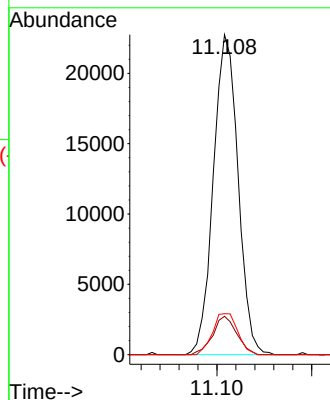
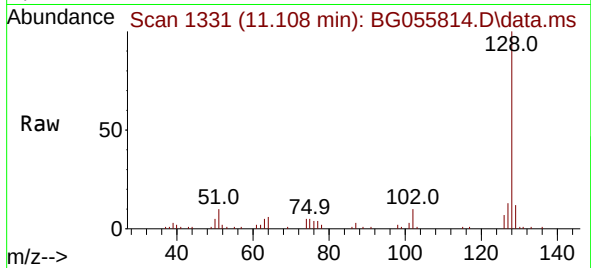




#31
Naphthalene
Concen: 3.508 ng
RT: 11.108 min Scan# 11
Delta R.T. -0.002 min
Lab File: BG055814.D
Acq: 28 Nov 2022 21:13

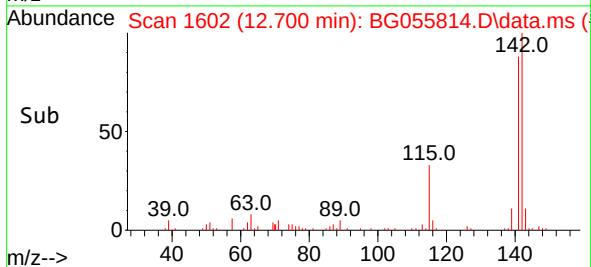
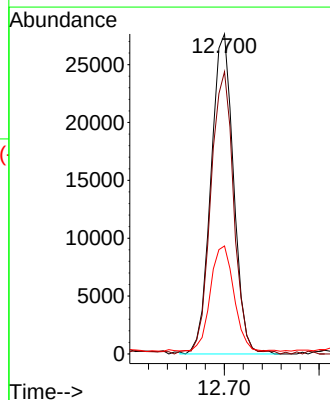
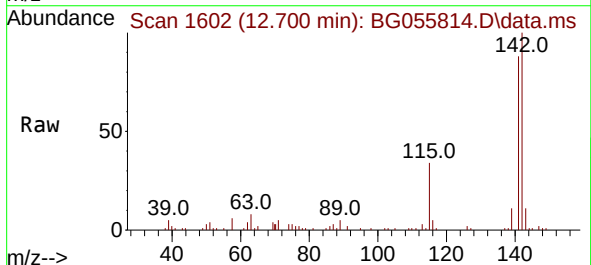
Instrument :
BNA_G
ClientSampleId :
LOCATION-2

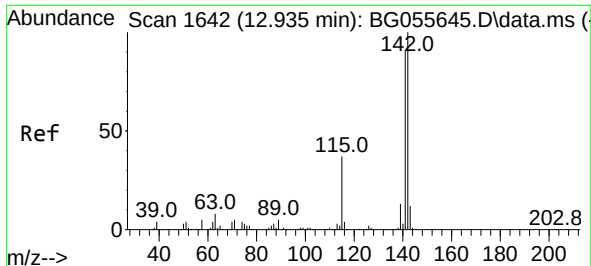
Tgt Ion:128 Resp: 41131
Ion Ratio Lower Upper
128 100
129 12.0 8.7 13.1
127 12.8 10.9 16.3



#37
2-Methylnaphthalene
Concen: 5.216 ng
RT: 12.700 min Scan# 1602
Delta R.T. -0.002 min
Lab File: BG055814.D
Acq: 28 Nov 2022 21:13

Tgt Ion:142 Resp: 45789
Ion Ratio Lower Upper
142 100
141 88.2 70.3 105.5
115 33.7 27.9 41.9





#38

1-Methylnaphthalene

Concen: 8.508 ng

RT: 12.918 min Scan# 1

Delta R.T. -0.002 min

Lab File: BG055814.D

Acq: 28 Nov 2022 21:13

Instrument :

BNA_G

ClientSampleId :

LOCATION-2

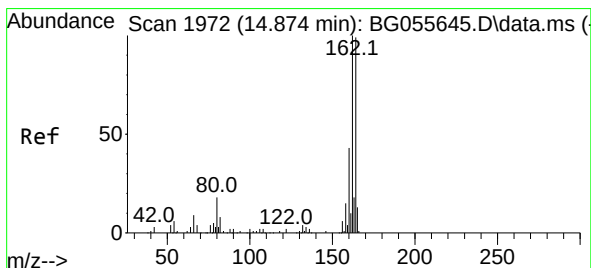
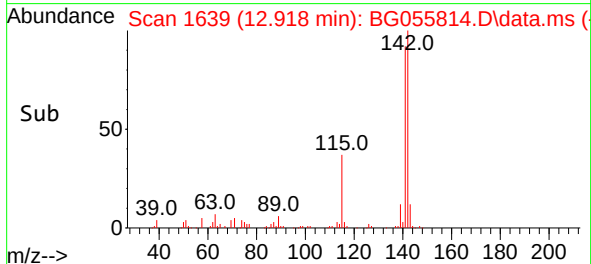
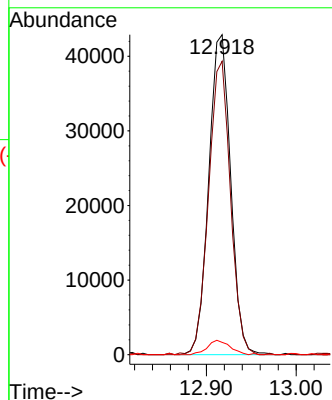
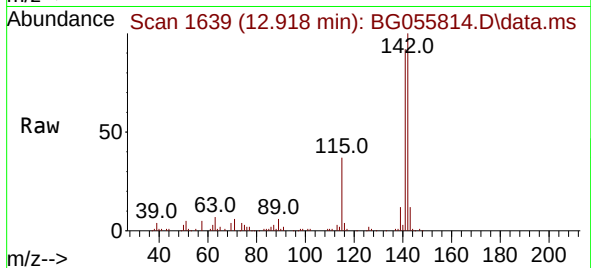
Tgt Ion:142 Resp: 72507

Ion Ratio Lower Upper

142 100

141 91.7 73.0 109.4

116 3.8 3.1 4.7



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.856 min Scan# 1969

Delta R.T. -0.002 min

Lab File: BG055814.D

Acq: 28 Nov 2022 21:13

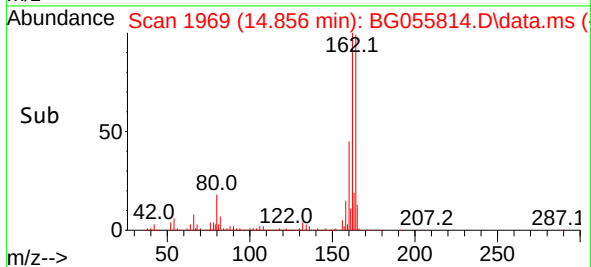
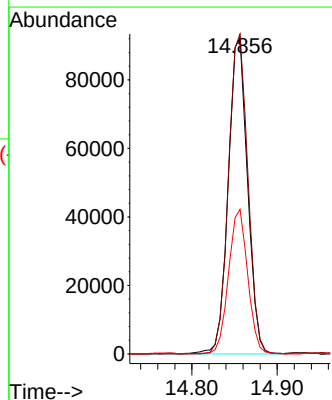
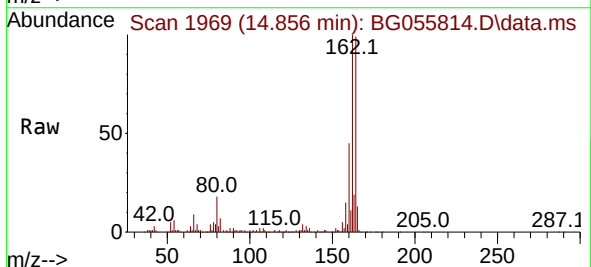
Tgt Ion:164 Resp: 144587

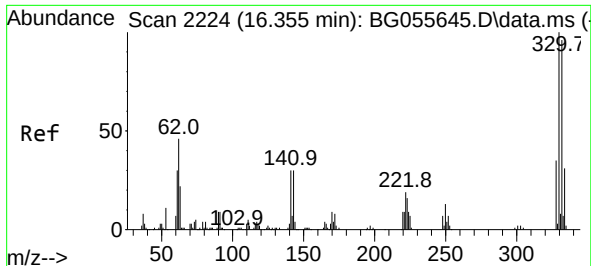
Ion Ratio Lower Upper

164 100

162 101.2 81.1 121.7

160 45.7 34.8 52.2





#42

2,4,6-Tribromophenol

Concen: 54.450 ng

RT: 16.343 min Scan# 21

Delta R.T. 0.004 min

Lab File: BG055814.D

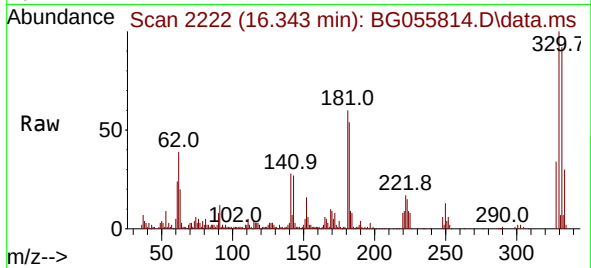
Acq: 28 Nov 2022 21:13

Instrument :

BNA_G

ClientSampleId :

LOCATION-2



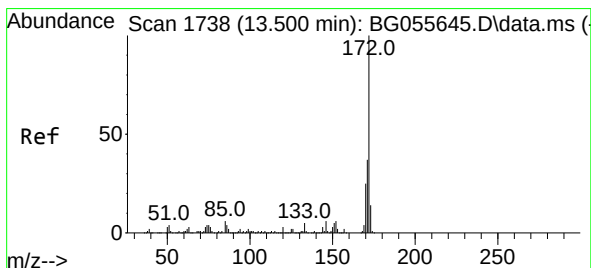
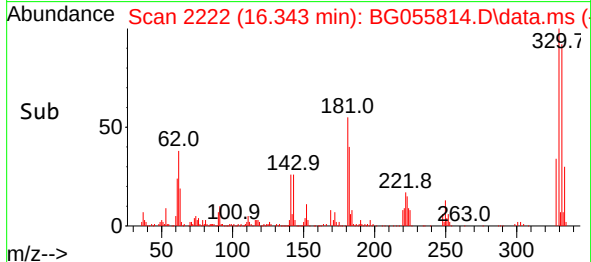
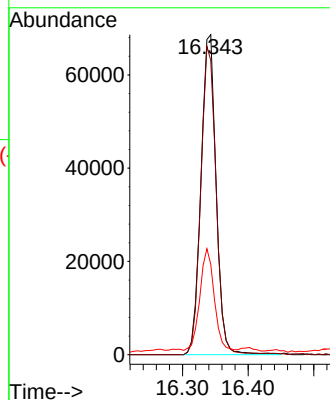
Tgt Ion:330 Resp: 110859

Ion Ratio Lower Upper

330 100

332 96.1 77.8 116.8

141 29.6 23.9 35.9



#45

2-Fluorobiphenyl

Concen: 36.489 ng

RT: 13.476 min Scan# 1734

Delta R.T. -0.008 min

Lab File: BG055814.D

Acq: 28 Nov 2022 21:13

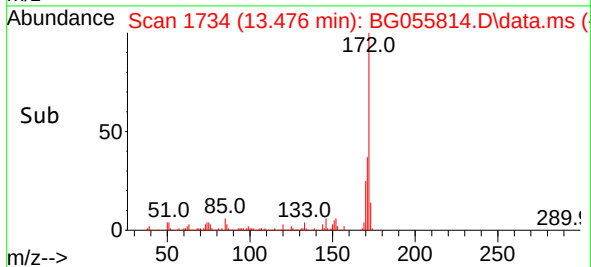
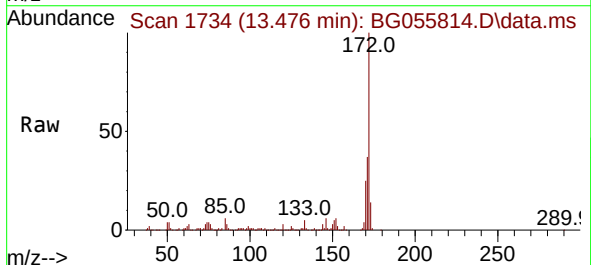
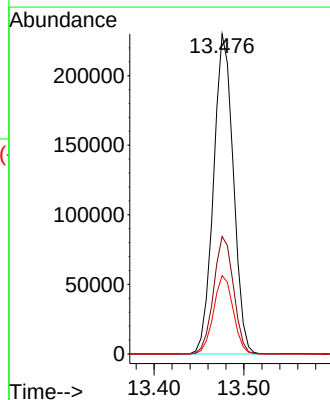
Tgt Ion:172 Resp: 352165

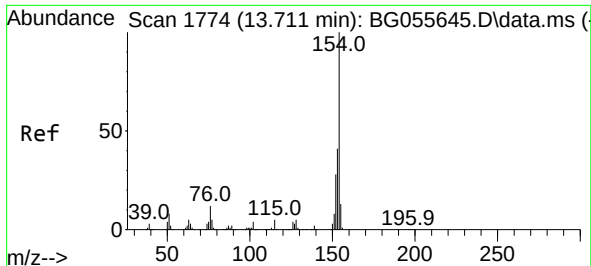
Ion Ratio Lower Upper

172 100

171 36.7 29.8 44.6

170 24.5 20.2 30.4

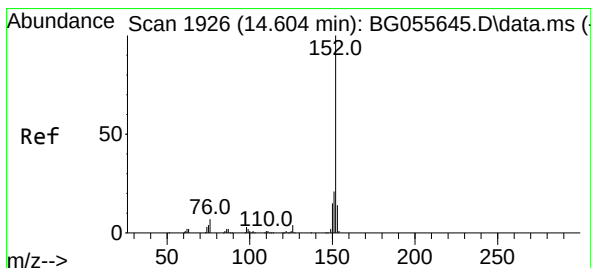
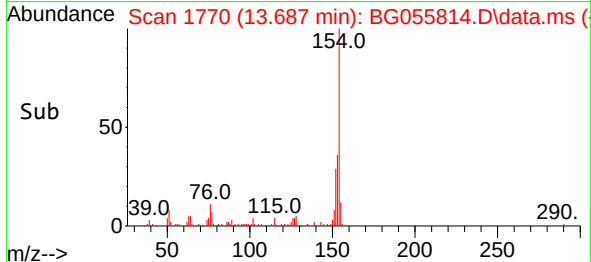
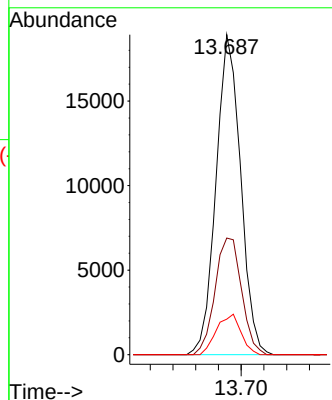
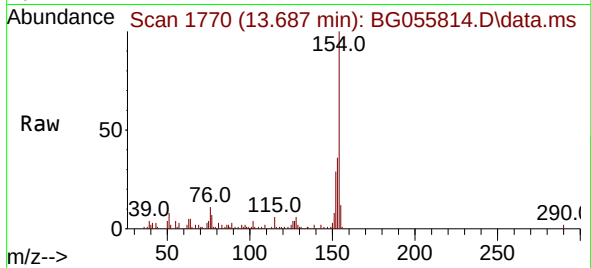




#46
1,1'-Biphenyl
Concen: 2.698 ng
RT: 13.687 min Scan# 1774
Delta R.T. -0.008 min
Lab File: BG055814.D
Acq: 28 Nov 2022 21:13

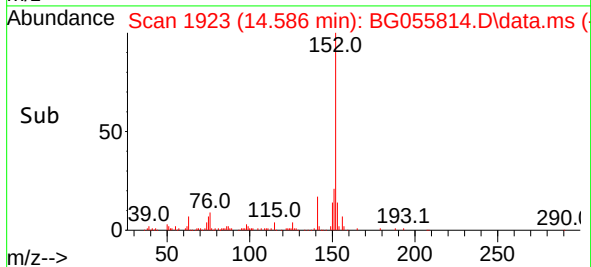
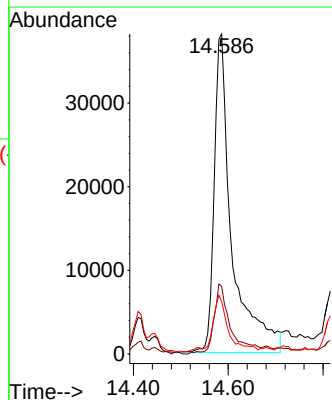
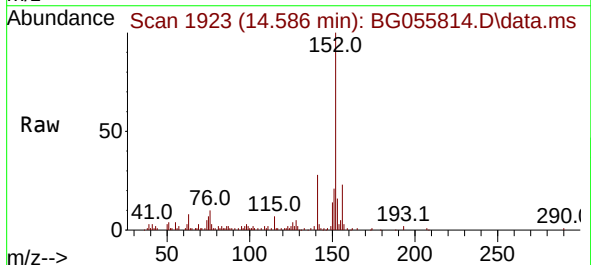
Instrument :
BNA_G
ClientSampleId :
LOCATION-2

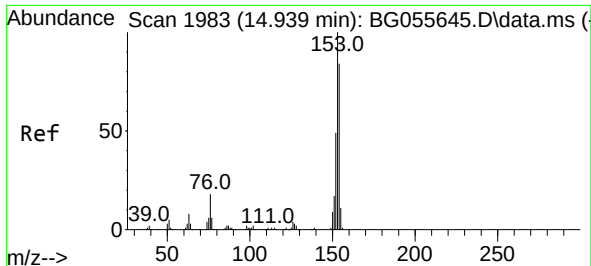
Tgt Ion:154 Resp: 28424
Ion Ratio Lower Upper
154 100
153 36.5 20.6 60.6
76 11.1 0.0 32.4



#49
Acenaphthylene
Concen: 7.367 ng
RT: 14.586 min Scan# 1923
Delta R.T. 0.004 min
Lab File: BG055814.D
Acq: 28 Nov 2022 21:13

Tgt Ion:152 Resp: 99353
Ion Ratio Lower Upper
152 100
151 21.1 16.4 24.6
153 16.5 11.0 16.4#

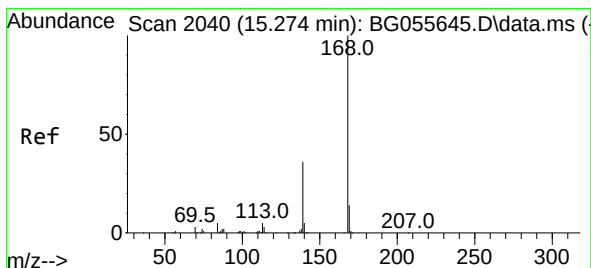
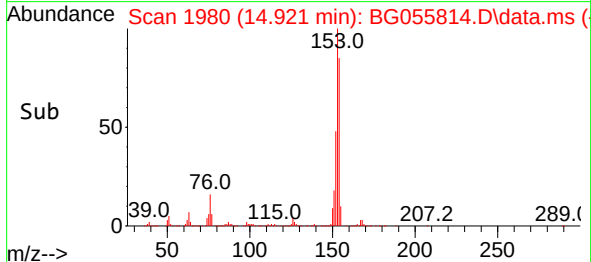
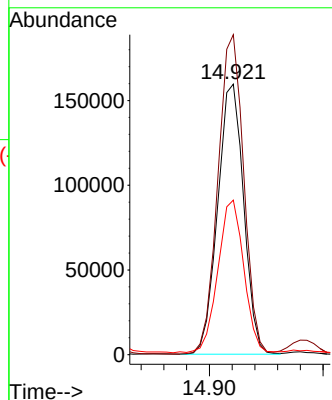
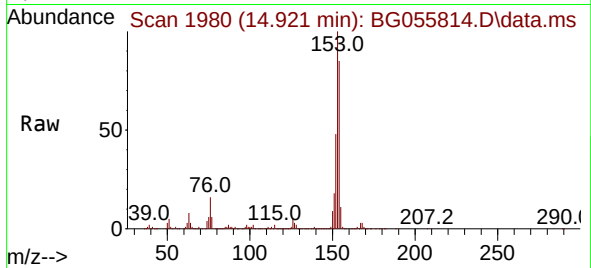




#52
Acenaphthene
Concen: 28.716 ng
RT: 14.921 min Scan# 1983
Delta R.T. -0.002 min
Lab File: BG055814.D
Acq: 28 Nov 2022 21:13

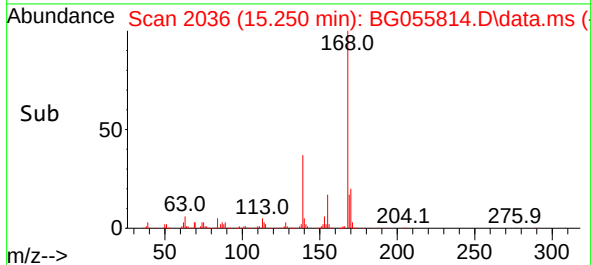
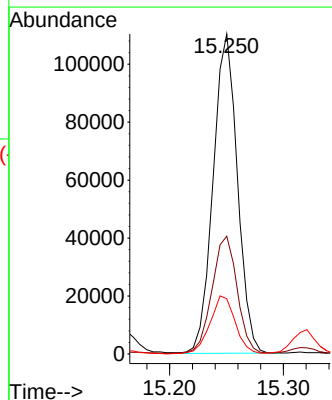
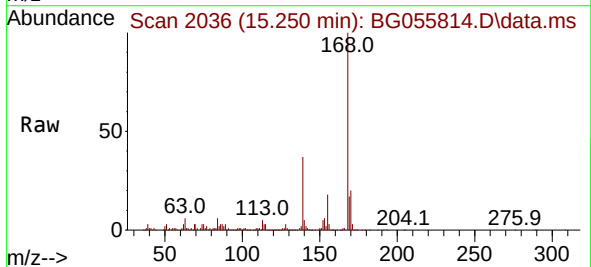
Instrument :
BNA_G
ClientSampleId :
LOCATION-2

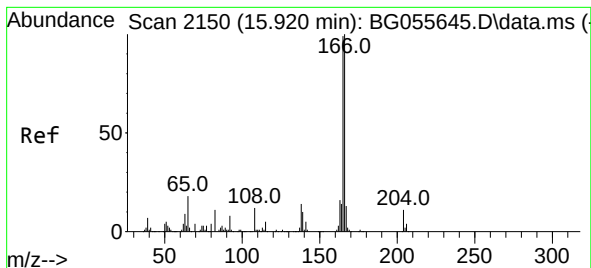
Tgt Ion:154 Resp: 253099
Ion Ratio Lower Upper
154 100
153 118.3 95.0 142.4
152 57.2 46.1 69.1



#55
Dibenzofuran
Concen: 12.000 ng
RT: 15.250 min Scan# 2036
Delta R.T. -0.002 min
Lab File: BG055814.D
Acq: 28 Nov 2022 21:13

Tgt Ion:168 Resp: 163165
Ion Ratio Lower Upper
168 100
139 36.8 28.8 43.2
169 17.2 11.0 16.4#





#58

Fluorene

Concen: 29.946 ng

RT: 15.896 min Scan# 2146

Delta R.T. -0.002 min

Lab File: BG055814.D

Acq: 28 Nov 2022 21:13

Instrument :

BNA_G

ClientSampleId :

LOCATION-2

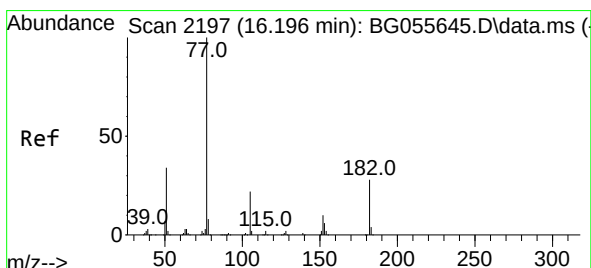
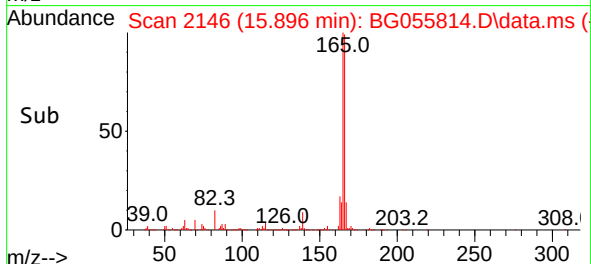
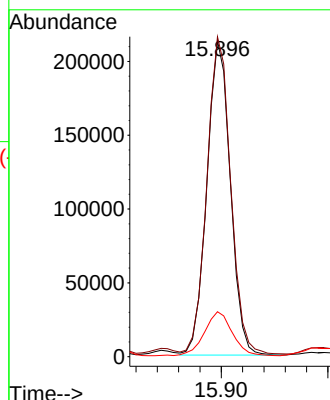
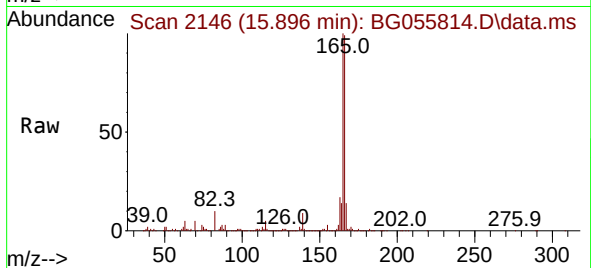
Tgt Ion:166 Resp: 325202

Ion Ratio Lower Upper

166 100

165 101.3 79.3 118.9

167 14.2 10.6 15.8



#63

Azobenzene

Concen: 2.251 ng

RT: 16.196 min Scan# 2197

Delta R.T. 0.021 min

Lab File: BG055814.D

Acq: 28 Nov 2022 21:13

Tgt Ion: 77 Resp: 22902

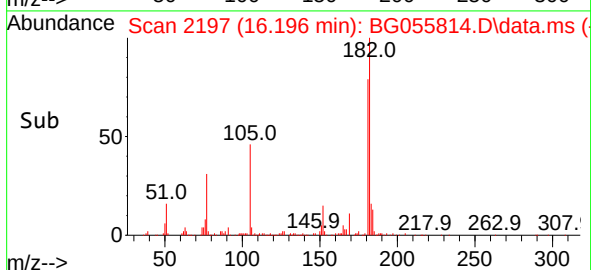
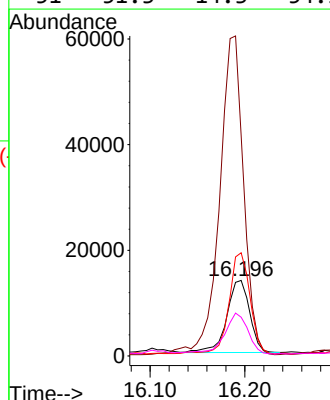
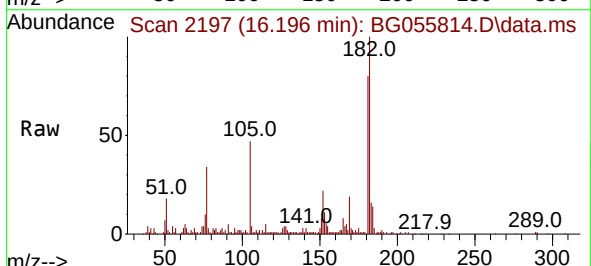
Ion Ratio Lower Upper

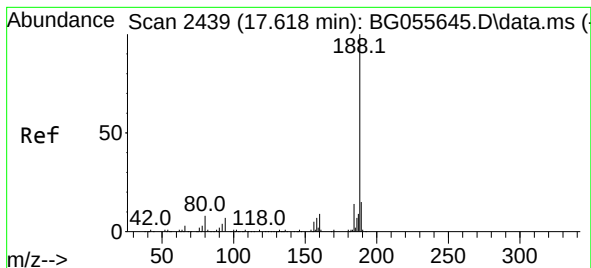
77 100

182 291.8 8.1 48.1#

105 136.8 1.8 41.8#

51 51.3 14.3 54.3





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.600 min Scan# 2439

Delta R.T. 0.004 min

Lab File: BG055814.D

Acq: 28 Nov 2022 21:13

Instrument :

BNA_G

ClientSampleId :

LOCATION-2

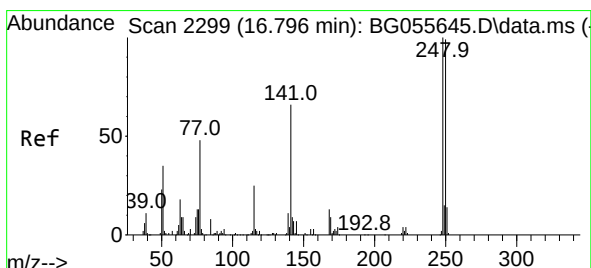
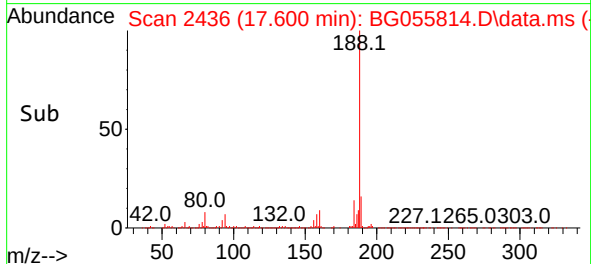
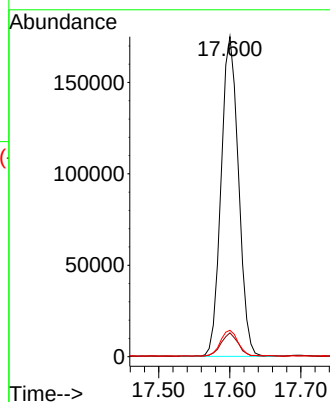
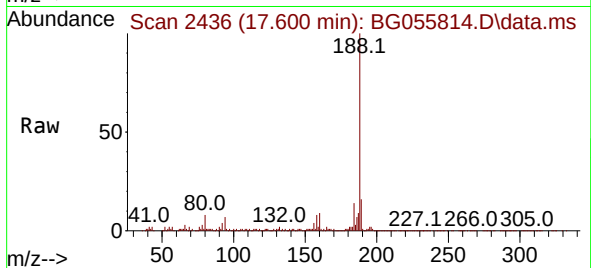
Tgt Ion:188 Resp: 296997

Ion Ratio Lower Upper

188 100

94 7.5 5.4 8.2

80 8.3 6.6 10.0



#67

4-Bromophenyl-phenylether

Concen: 2.203 ng

RT: 16.337 min Scan# 2221

Delta R.T. -0.437 min

Lab File: BG055814.D

Acq: 28 Nov 2022 21:13

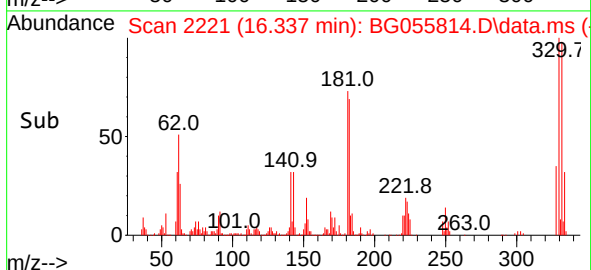
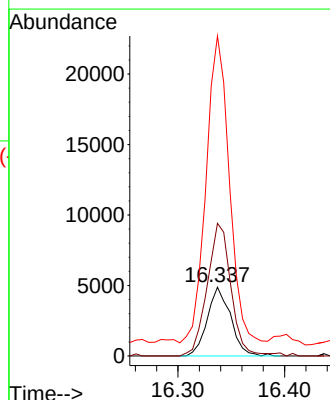
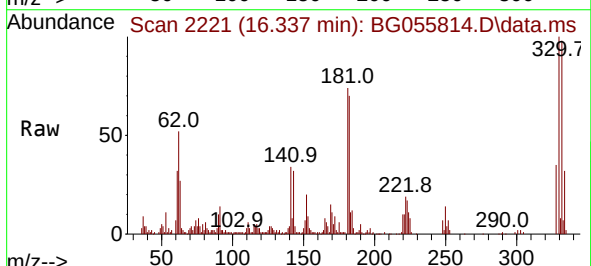
Tgt Ion:248 Resp: 7456

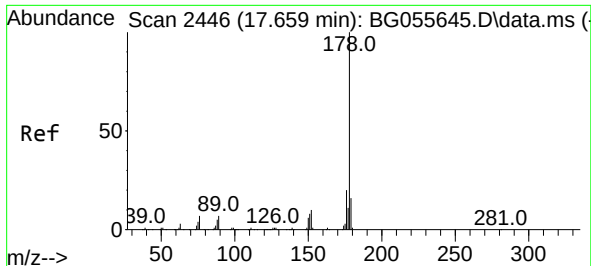
Ion Ratio Lower Upper

248 100

250 192.5 79.0 118.4#

141 464.7 52.9 79.3#

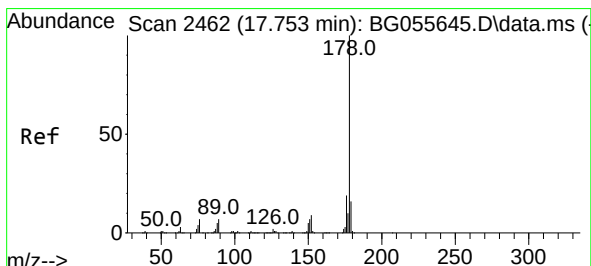
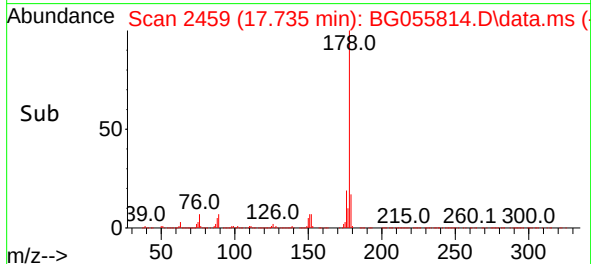
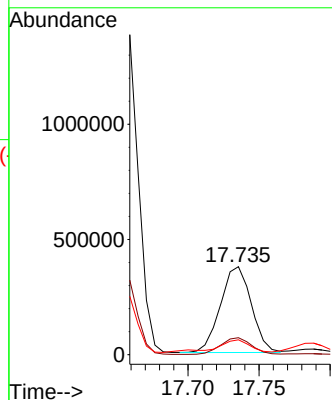
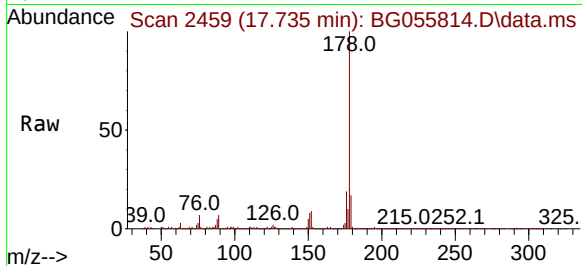




#71
Phenanthrene
Concen: 35.135 ng
RT: 17.735 min Scan# 2446
Delta R.T. 0.092 min
Lab File: BG055814.D
Acq: 28 Nov 2022 21:13

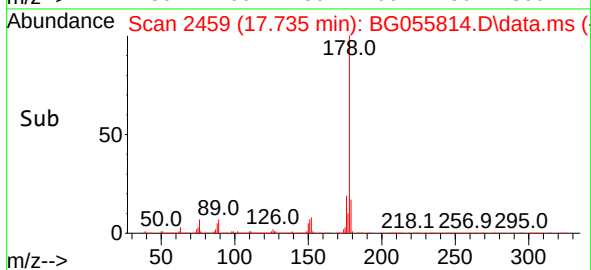
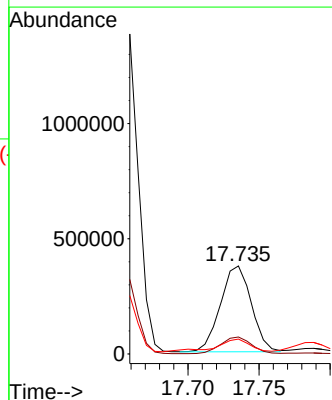
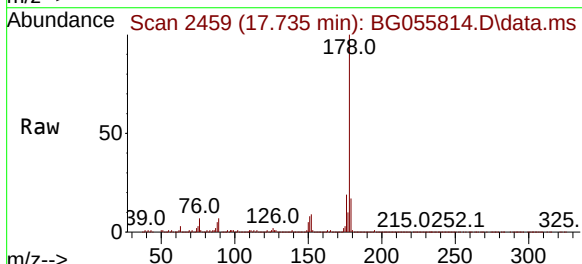
Instrument :
BNA_G
ClientSampleId :
LOCATION-2

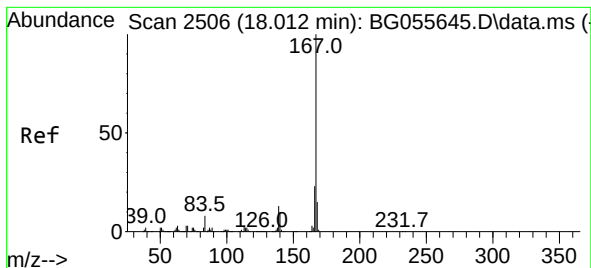
Tgt Ion:178 Resp: 563121
Ion Ratio Lower Upper
178 100
176 19.4 16.0 24.0
179 17.0 12.7 19.1



#72
Anthracene
Concen: 36.162 ng
RT: 17.735 min Scan# 2459
Delta R.T. 0.004 min
Lab File: BG055814.D
Acq: 28 Nov 2022 21:13

Tgt Ion:178 Resp: 563121
Ion Ratio Lower Upper
178 100
176 19.4 15.5 23.3
179 17.0 12.5 18.7





#73

Carbazole

Concen: 11.509 ng

RT: 18.000 min Scan# 2

Delta R.T. 0.004 min

Lab File: BG055814.D

Acq: 28 Nov 2022 21:13

Instrument :

BNA_G

ClientSampleId :

LOCATION-2

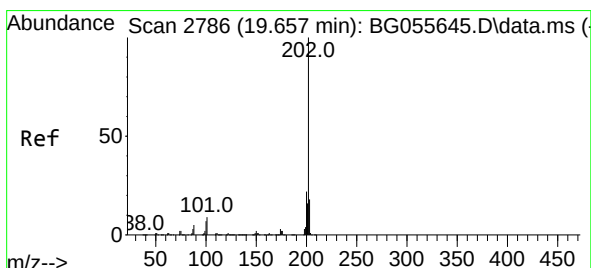
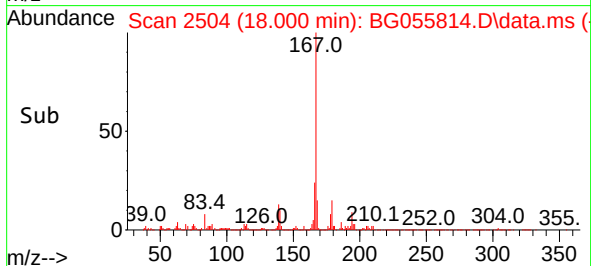
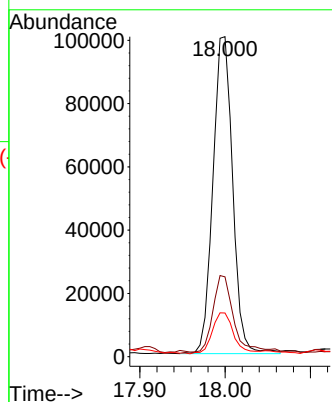
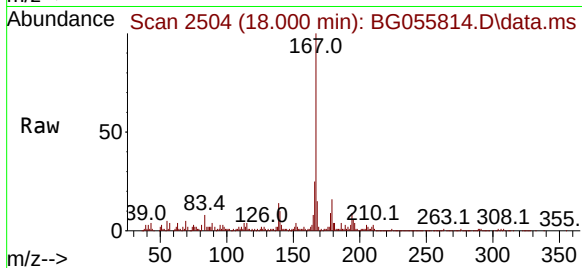
Tgt Ion:167 Resp: 161115

Ion Ratio Lower Upper

167 100

166 25.0 18.2 27.2

139 13.6 10.2 15.4



#75

Fluoranthene

Concen: 201.840 ng

RT: 19.657 min Scan# 2786

Delta R.T. 0.021 min

Lab File: BG055814.D

Acq: 28 Nov 2022 21:13

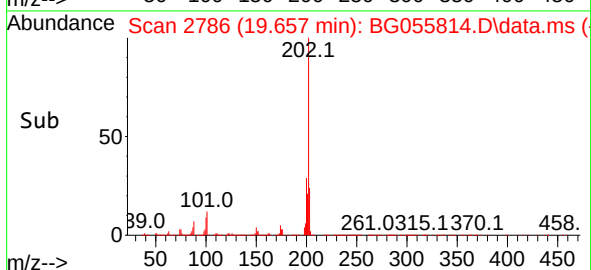
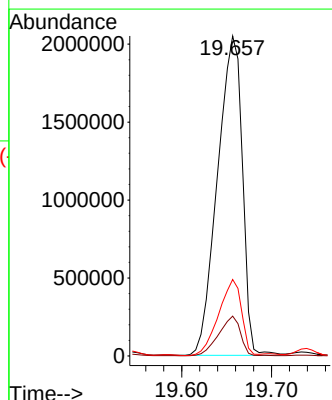
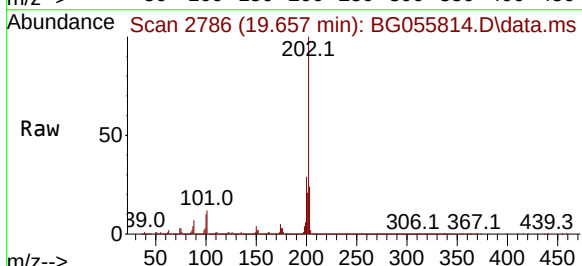
Tgt Ion:202 Resp: 3935536

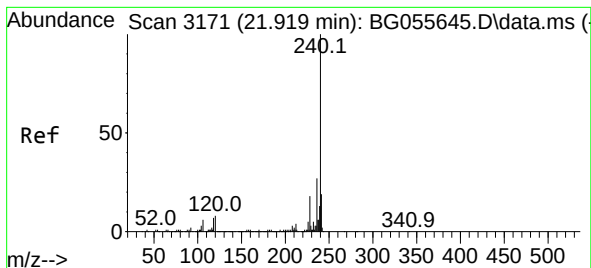
Ion Ratio Lower Upper

202 100

101 12.5 0.0 28.8

203 23.9 0.0 38.1





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.901 min Scan# 3171

Delta R.T. 0.009 min

Lab File: BG055814.D

Acq: 28 Nov 2022 21:13

Instrument :

BNA_G

ClientSampleId :

LOCATION-2

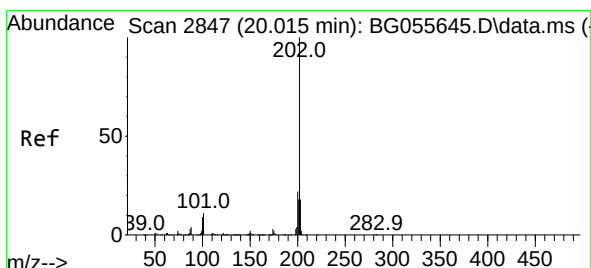
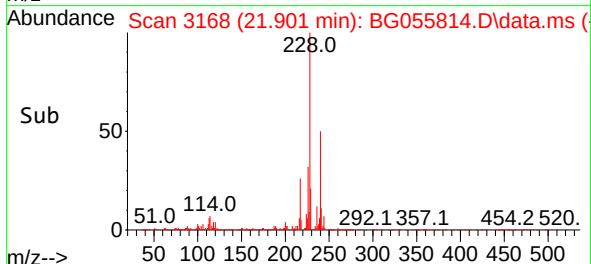
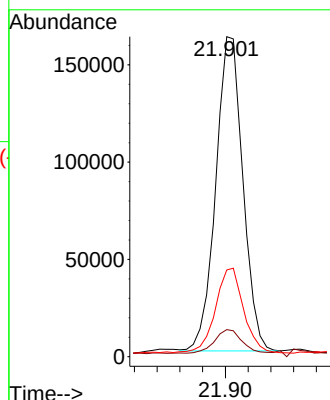
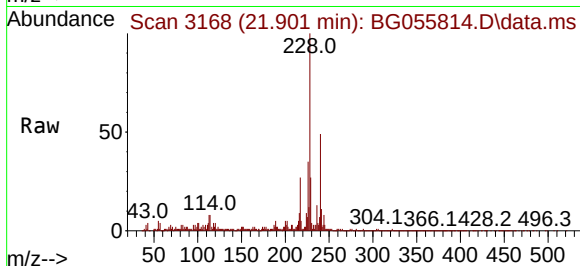
Tgt Ion:240 Resp: 267810

Ion Ratio Lower Upper

240 100

120 8.5 6.3 9.5

236 27.1 21.9 32.9



#78

Pyrene

Concen: 210.026 ng

RT: 20.021 min Scan# 2848

Delta R.T. 0.021 min

Lab File: BG055814.D

Acq: 28 Nov 2022 21:13

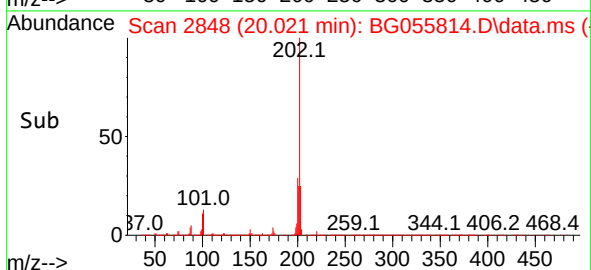
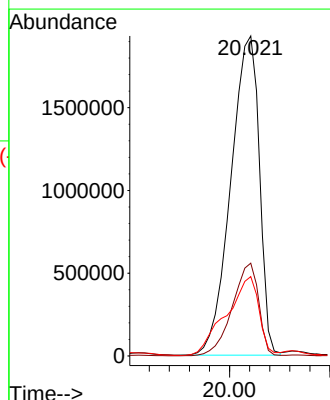
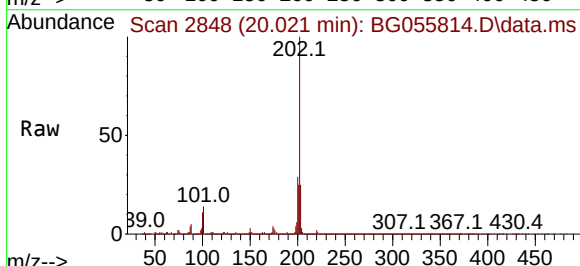
Tgt Ion:202 Resp: 3807261

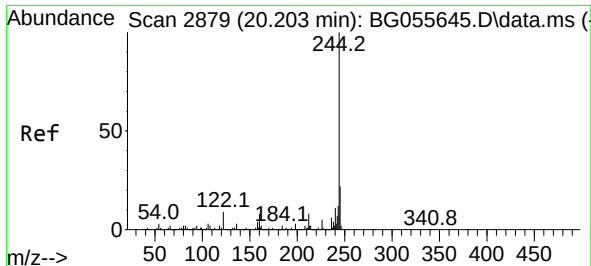
Ion Ratio Lower Upper

202 100

200 29.0 17.8 26.6#

203 24.8 14.4 21.6#

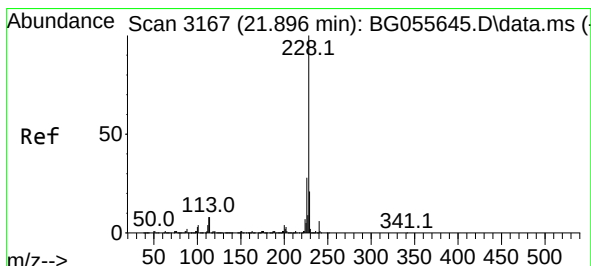
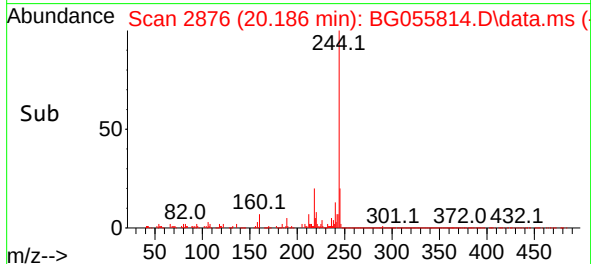
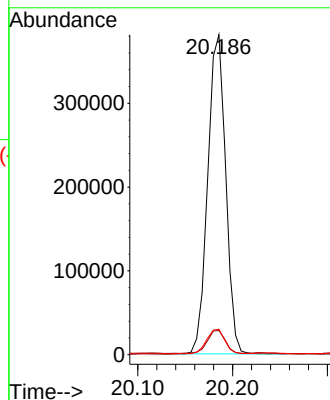
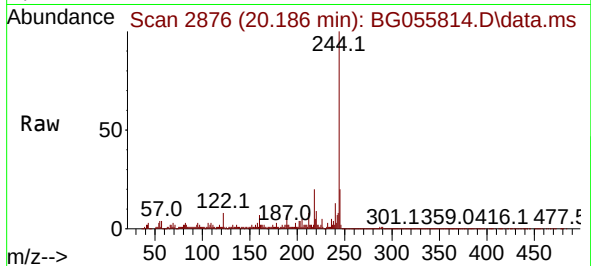




#79
 Terphenyl-d14
 Concen: 37.409 ng
 RT: 20.186 min Scan# 21
 Delta R.T. 0.004 min
 Lab File: BG055814.D
 Acq: 28 Nov 2022 21:13

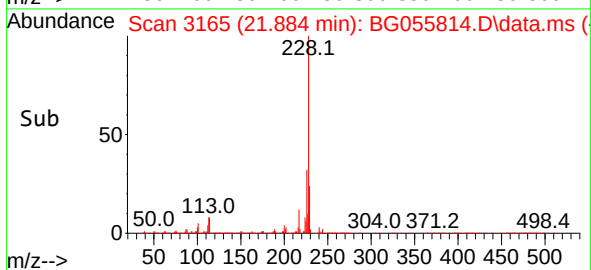
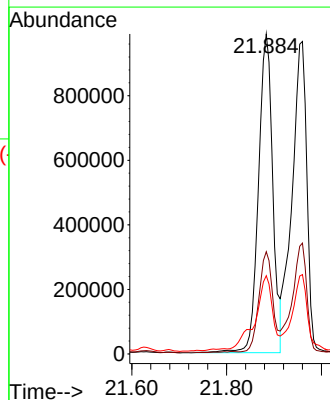
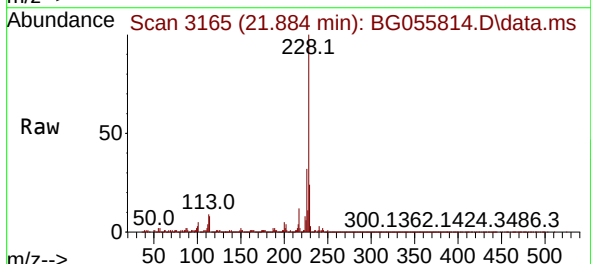
Instrument :
 BNA_G
 ClientSampleId :
 LOCATION-2

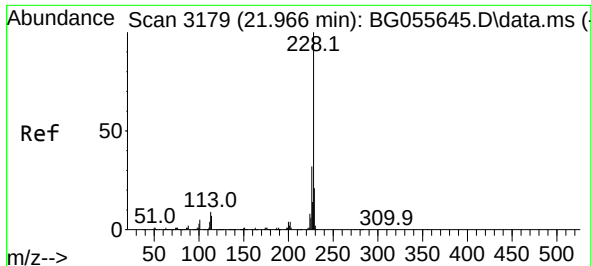
Tgt Ion:244 Resp: 500888
 Ion Ratio Lower Upper
 244 100
 212 7.6 6.3 9.5
 122 7.9 6.9 10.3



#81
 Benzo(a)anthracene
 Concen: 112.106 ng
 RT: 21.884 min Scan# 3165
 Delta R.T. 0.009 min
 Lab File: BG055814.D
 Acq: 28 Nov 2022 21:13

Tgt Ion:228 Resp: 2067873
 Ion Ratio Lower Upper
 228 100
 226 31.9 22.7 34.1
 229 24.4 16.5 24.7





#83

Chrysene

Concen: 118.627 ng

RT: 21.960 min Scan# 31

Delta R.T. 0.015 min

Lab File: BG055814.D

Acq: 28 Nov 2022 21:13

Instrument :

BNA_G

ClientSampleId :

LOCATION-2

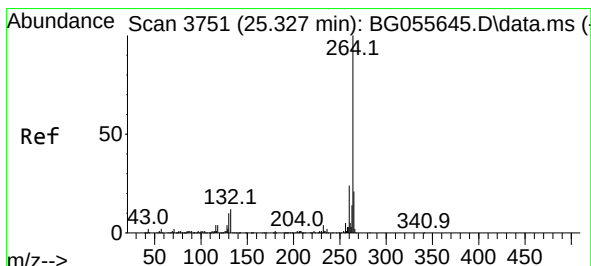
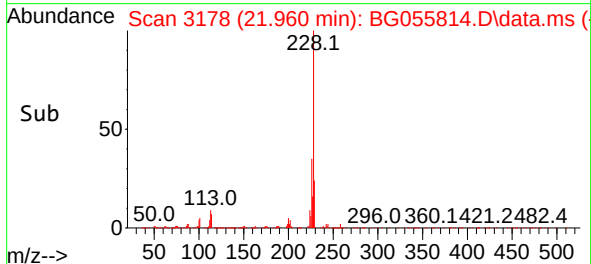
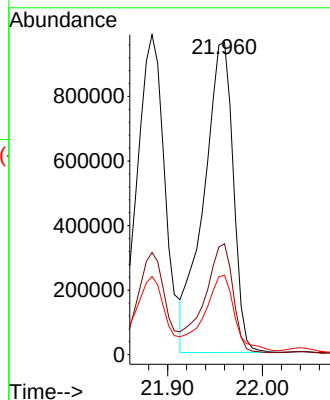
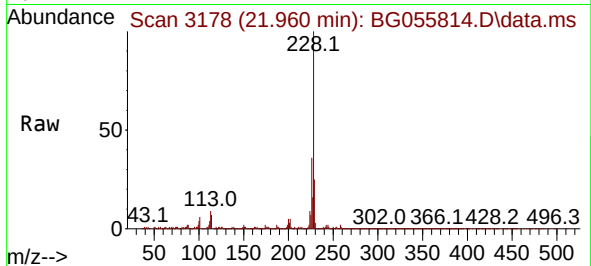
Tgt Ion:228 Resp: 2083101

Ion Ratio Lower Upper

228 100

226 35.5 25.4 38.2

229 25.4 17.1 25.7



#86

Perylene-d12

Concen: 20.000 ng

RT: 25.315 min Scan# 3749

Delta R.T. 0.027 min

Lab File: BG055814.D

Acq: 28 Nov 2022 21:13

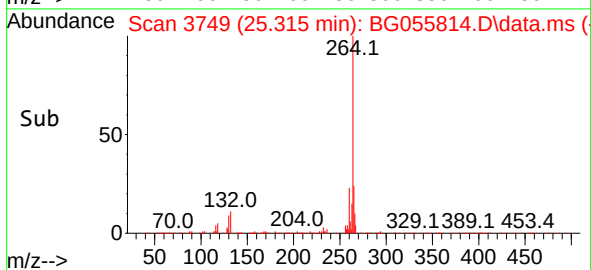
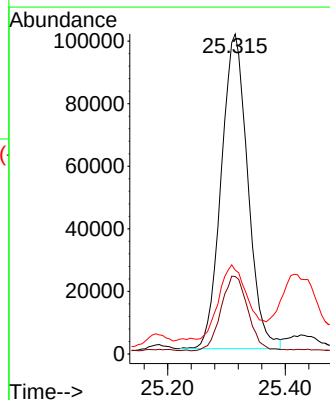
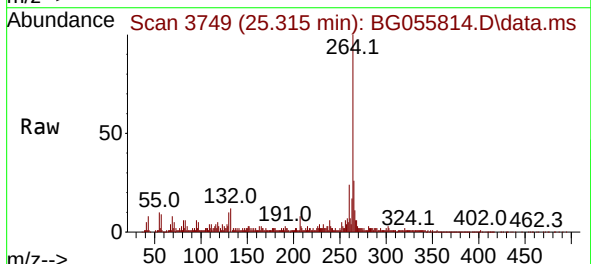
Tgt Ion:264 Resp: 314853

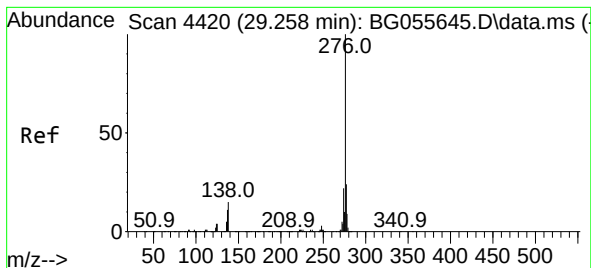
Ion Ratio Lower Upper

264 100

260 24.2 19.5 29.3

265 26.2 17.1 25.7#





#87

Indeno(1,2,3-cd)pyrene

Concen: 39.123 ng

RT: 29.251 min Scan# 4420

Delta R.T. 0.039 min

Lab File: BG055814.D

Acq: 28 Nov 2022 21:13

Instrument :

BNA_G

ClientSampleId :

LOCATION-2

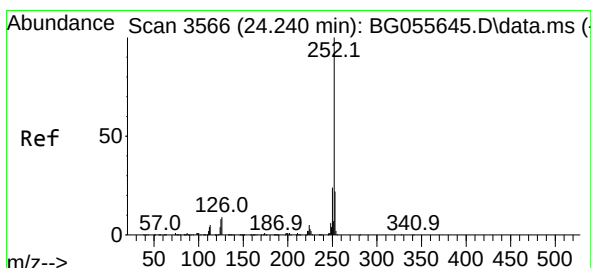
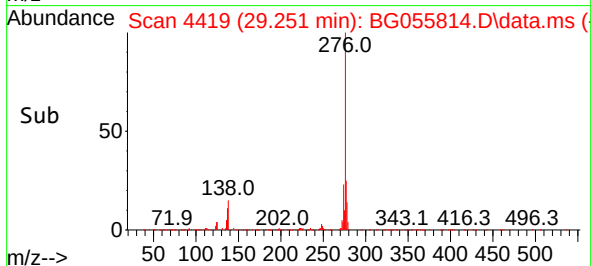
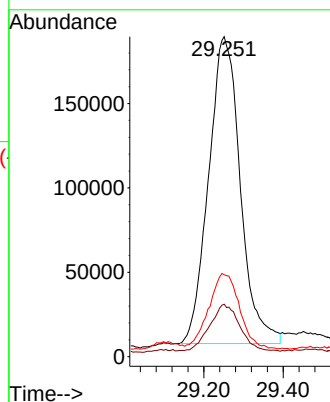
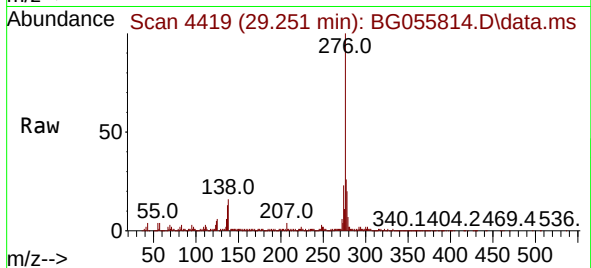
Tgt Ion:276 Resp: 1009117

Ion Ratio Lower Upper

276 100

138 14.6 10.4 15.6

277 24.1 20.2 30.4



#88

Benzo(b)fluoranthene

Concen: 110.592 ng

RT: 24.245 min Scan# 3567

Delta R.T. 0.039 min

Lab File: BG055814.D

Acq: 28 Nov 2022 21:13

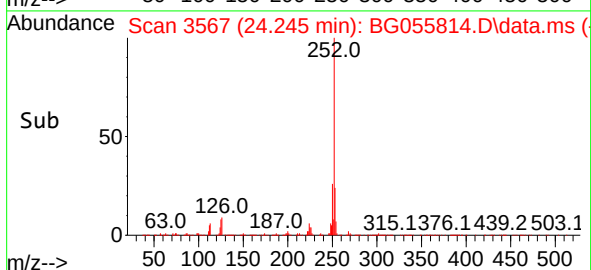
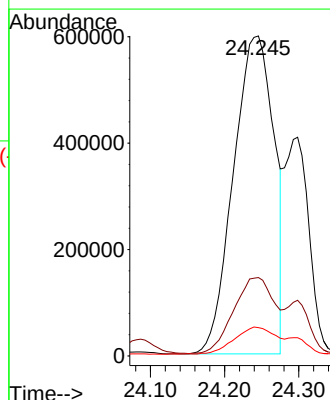
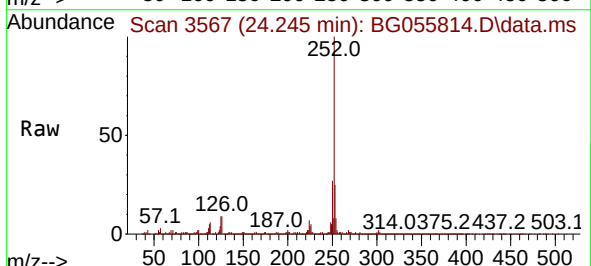
Tgt Ion:252 Resp: 2267686

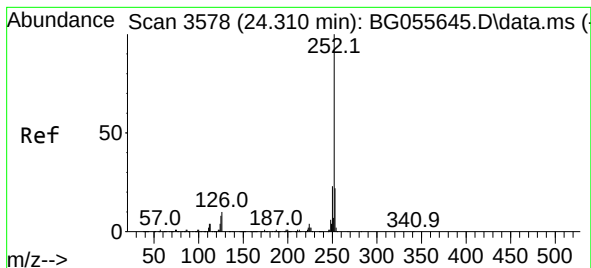
Ion Ratio Lower Upper

252 100

253 24.5 18.0 27.0

125 8.9 6.2 9.2





#89

Benzo(k)fluoranthene

Concen: 110.947 ng

RT: 24.245 min Scan# 31

Delta R.T. -0.032 min

Lab File: BG055814.D

Acq: 28 Nov 2022 21:13

Instrument :

BNA_G

ClientSampleId :

LOCATION-2

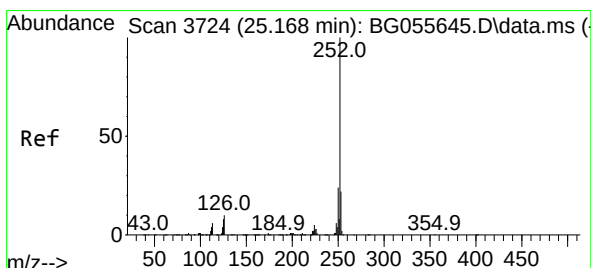
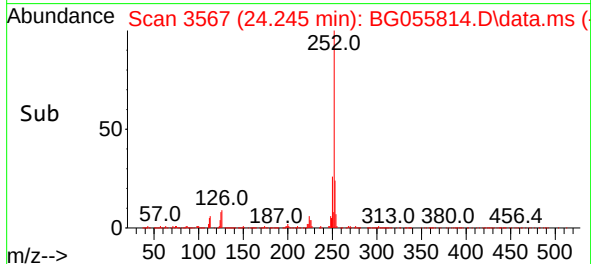
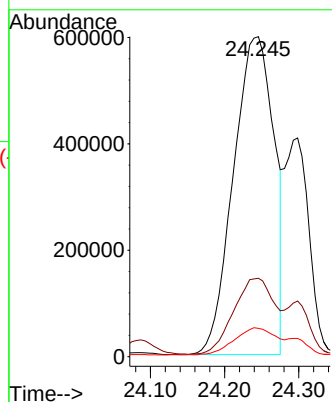
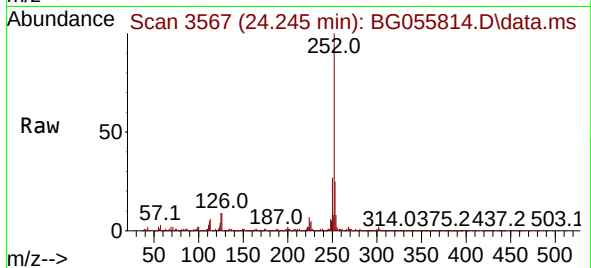
Tgt Ion:252 Resp: 2267686

Ion Ratio Lower Upper

252 100

253 24.5 17.8 26.6

125 8.9 6.1 9.1



#90

Benzo(a)pyrene

Concen: 108.129 ng

RT: 25.168 min Scan# 3724

Delta R.T. 0.039 min

Lab File: BG055814.D

Acq: 28 Nov 2022 21:13

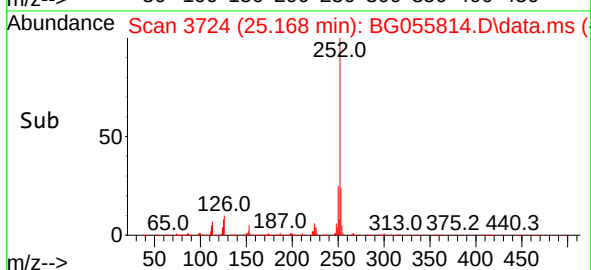
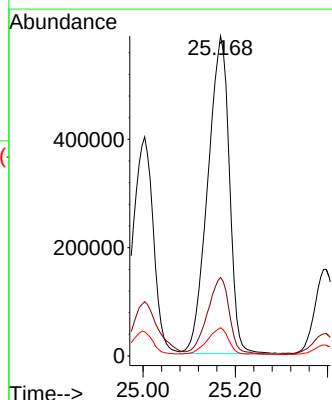
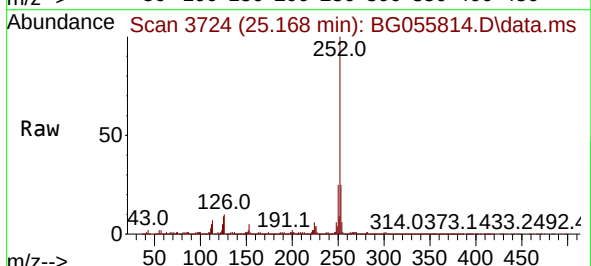
Tgt Ion:252 Resp: 1902618

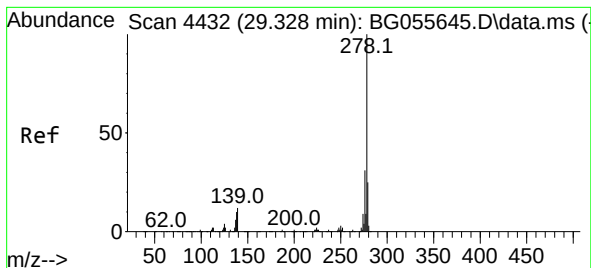
Ion Ratio Lower Upper

252 100

253 24.6 17.8 26.6

125 8.9 6.4 9.6





#91

Dibenzo(a,h)anthracene

Concen: 11.976 ng

RT: 29.287 min Scan# 4432

Delta R.T. 0.021 min

Lab File: BG055814.D

Acq: 28 Nov 2022 21:13

Instrument :

BNA_G

ClientSampleId :

LOCATION-2

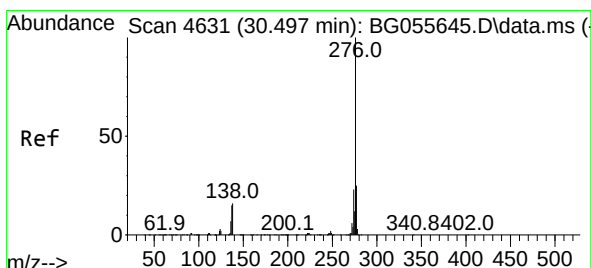
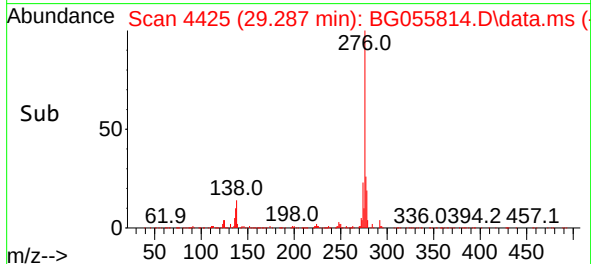
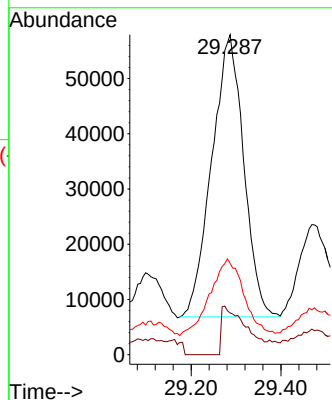
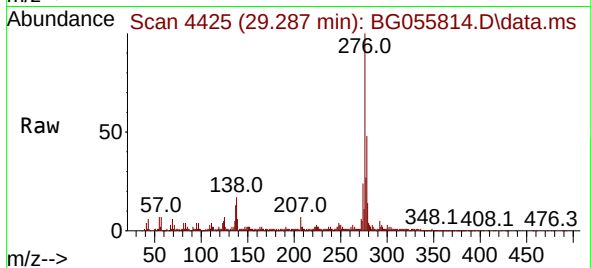
Tgt Ion:278 Resp: 252428

Ion Ratio Lower Upper

278 100

139 13.1 9.8 14.8

279 28.6 19.8 29.6



#92

Benzo(g,h,i)perylene

Concen: 48.397 ng

RT: 30.491 min Scan# 4630

Delta R.T. 0.056 min

Lab File: BG055814.D

Acq: 28 Nov 2022 21:13

Tgt Ion:276 Resp: 1028141

Ion Ratio Lower Upper

276 100

277 25.1 19.8 29.6

138 16.6 13.1 19.7

