

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG072222\
 Data File : BG054372.D
 Acq On : 22 Jul 2022 23:34
 Operator : CG/JU
 Sample : N3814-09 5X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 ENV-DE-2(10-15)

Quant Time: Jul 23 01:01:18 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG071522.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 15 15:54:11 2022
 Response via : Initial Calibration

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

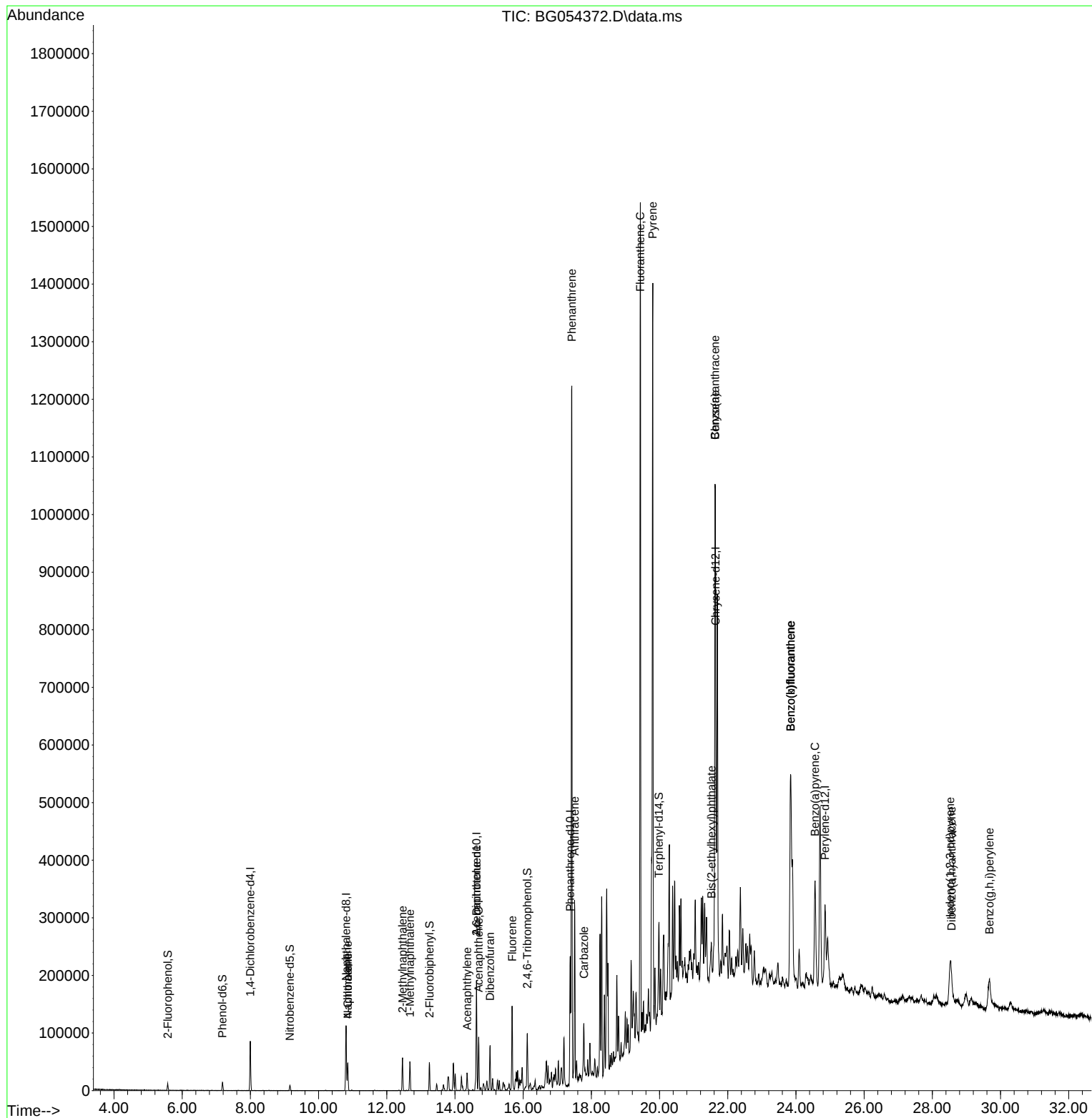
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.996	152	26621	20.000	ng	0.00
21) Naphthalene-d8	10.804	136	102380	20.000	ng	# 0.00
39) Acenaphthene-d10	14.629	164	72318	20.000	ng	0.00
64) Phenanthrene-d10	17.379	188	164290	20.000	ng	# 0.00
76) Chrysene-d12	21.644	240	185419	20.000	ng	# 0.00
86) Perylene-d12	24.852	264	180903	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.575	112	5782	4.535	ng	0.00
7) Phenol-d6	7.179	99	9018	5.162	ng	0.00
23) Nitrobenzene-d5	9.159	82	6607	3.514	ng	0.00
42) 2,4,6-Tribromophenol	16.122	330	16566	10.910	ng	0.00
45) 2-Fluorobiphenyl	13.248	172	29309	5.717	ng	0.00
79) Terphenyl-d14	19.982	244	70653	7.559	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.857	128	43329	8.431	ng	97
33) 4-Chloroaniline	10.857	127	5809	2.780	ng	# 35
37) 2-Methylnaphthalene	12.461	142	28719	7.277	ng	98
38) 1-Methylnaphthalene	12.678	142	25669	6.675	ng	92
49) Acenaphthylene	14.359	152	18398	2.990	ng	# 91
51) 2,6-Dinitrotoluene	14.629	165	12233	9.873	ng	# 16
52) Acenaphthene	14.694	154	35987	9.660	ng	96
55) Dibenzofuran	15.029	168	44440	6.704	ng	# 93
58) Fluorene	15.675	166	69780	12.803	ng	95
71) Phenanthrene	17.426	178	855383	104.550	ng	96
72) Anthracene	17.508	178	226227	28.177	ng	99
73) Carbazole	17.778	167	65937	9.975	ng	98
75) Fluoranthene	19.435	202	1013151	90.843	ng	93
78) Pyrene	19.800	202	957015	89.952	ng	95
81) Benzo(a)anthracene	21.627	228	592736	50.359	ng	97
83) Chrysene	21.627	228	592736	53.303	ng	97
84) Bis(2-ethylhexyl)phtha...	21.521	149	17623	3.756	ng	# 88
87) Indeno(1,2,3-cd)pyrene	28.525	276	172654	12.546	ng	# 93
88) Benzo(b)fluoranthene	23.848	252	572037	53.469	ng	# 97
89) Benzo(k)fluoranthene	23.848	252	572037	53.726	ng	# 97
90) Benzo(a)pyrene	24.559	252	260449	28.506	ng	95
91) Dibenzo(a,h)anthracene	28.566	278	45287	4.002	ng	# 86
92) Benzo(g,h,i)perylene	29.676	276	142524	12.761	ng	# 93

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

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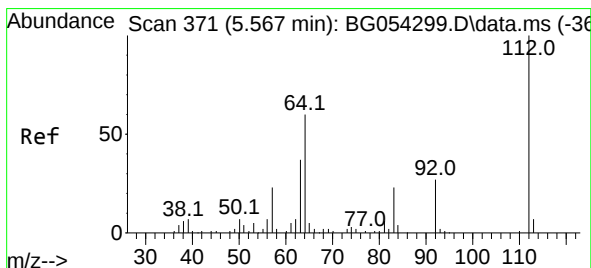
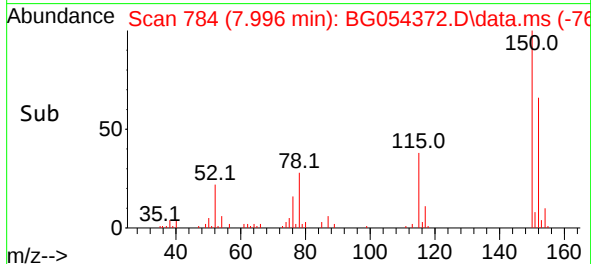
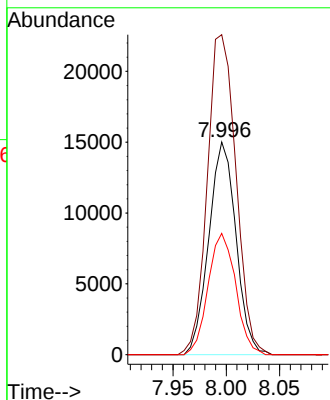
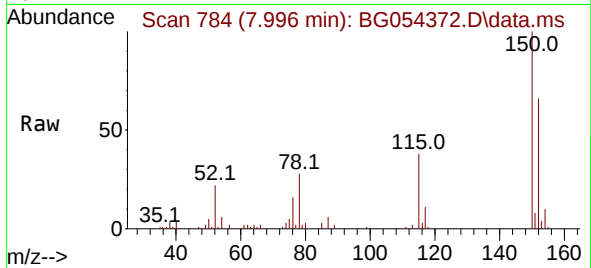




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.996 min Scan# 71
Delta R.T. -0.004 min
Lab File: BG054372.D
Acq: 22 Jul 2022 23:34

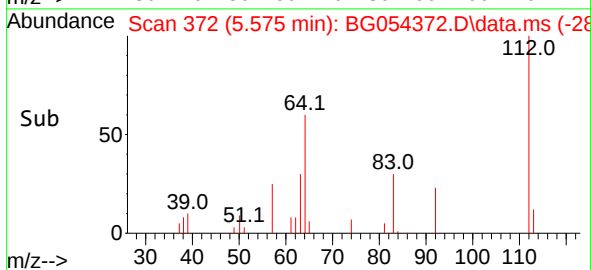
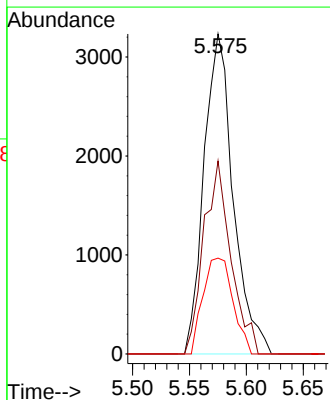
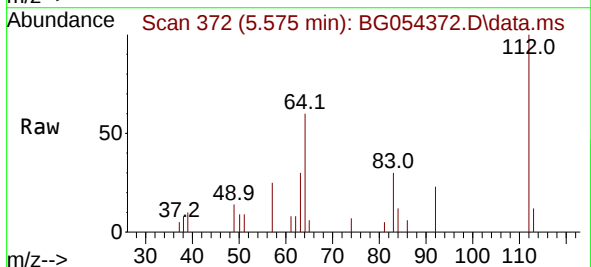
Instrument :
BNA_G
ClientSampleId :
ENV-DE-2(10-15)

Tgt Ion:152 Resp: 26621
Ion Ratio Lower Upper
152 100
150 150.5 131.6 197.4
115 57.0 50.9 76.3



#5
2-Fluorophenol
Concen: 4.535 ng
RT: 5.575 min Scan# 372
Delta R.T. 0.008 min
Lab File: BG054372.D
Acq: 22 Jul 2022 23:34

Tgt Ion:112 Resp: 5782
Ion Ratio Lower Upper
112 100
64 60.3 55.1 82.7
63 29.9 30.4 45.6#

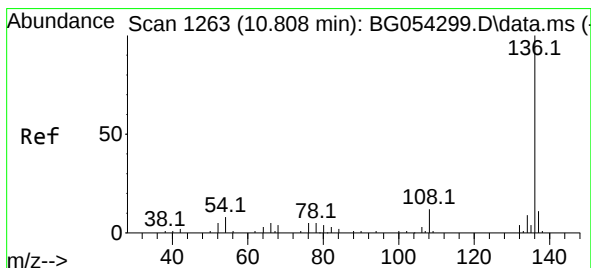
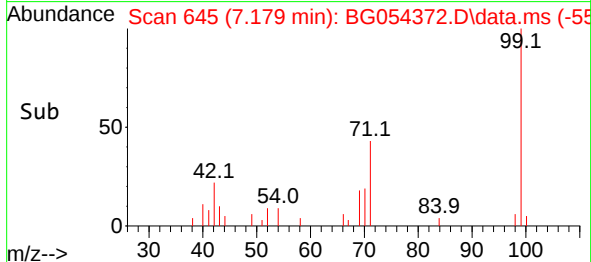
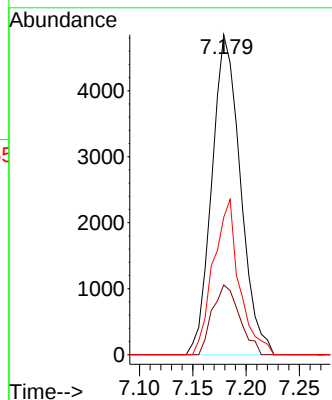
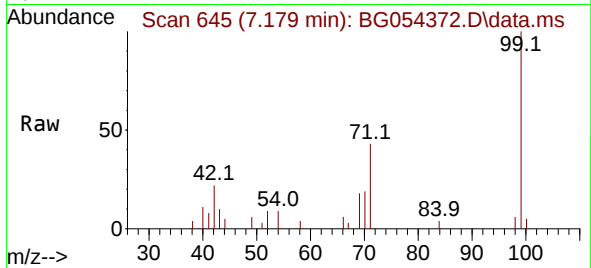




#7
Phenol-d6
Concen: 5.162 ng
RT: 7.179 min Scan# 64
Delta R.T. 0.008 min
Lab File: BG054372.D
Acq: 22 Jul 2022 23:34

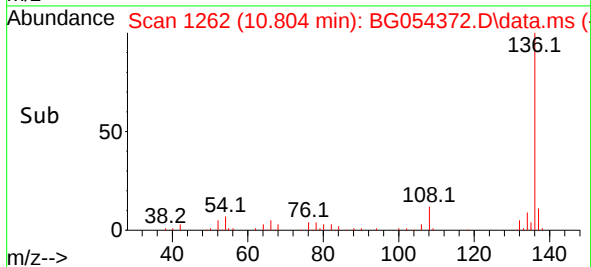
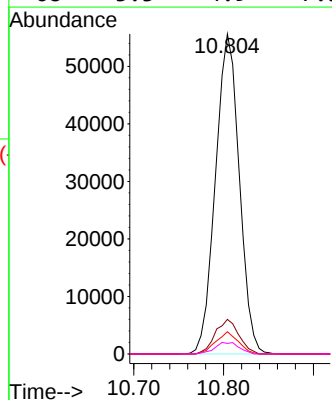
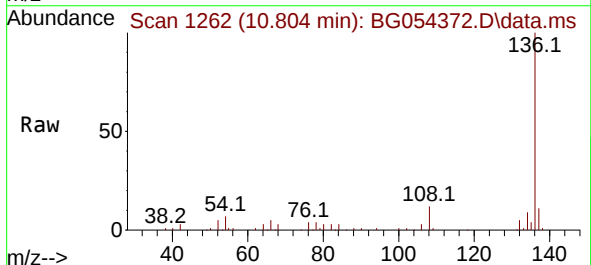
Instrument :
BNA_G
ClientSampleId :
ENV-DE-2(10-15)

Tgt Ion: 99 Resp: 9018
Ion Ratio Lower Upper
99 100
42 21.8 17.0 25.6
71 42.9 33.8 50.8



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.804 min Scan# 1262
Delta R.T. -0.004 min
Lab File: BG054372.D
Acq: 22 Jul 2022 23:34

Tgt Ion: 136 Resp: 102380
Ion Ratio Lower Upper
136 100
137 10.8 8.5 12.7
54 6.9 7.4 11.2#
68 3.3 4.9 7.3#

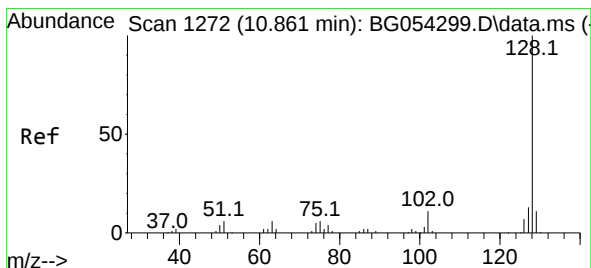
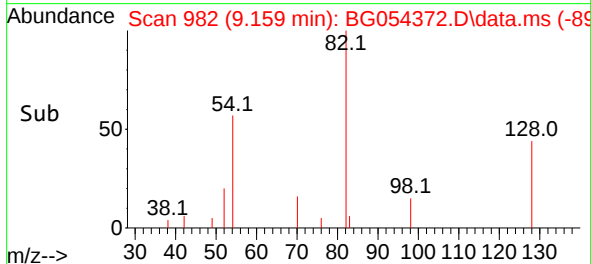
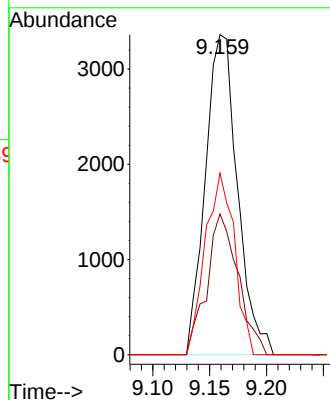
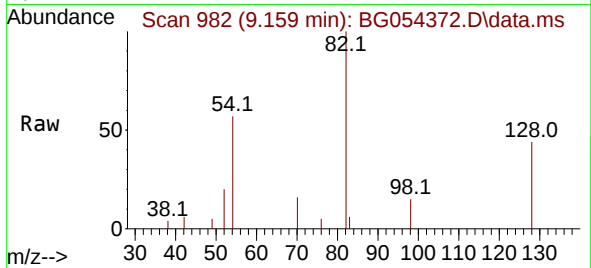




#23
Nitrobenzene-d5
Concen: 3.514 ng
RT: 9.159 min Scan# 91
Delta R.T. -0.004 min
Lab File: BG054372.D
Acq: 22 Jul 2022 23:34

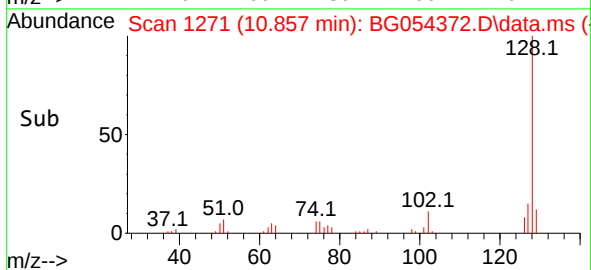
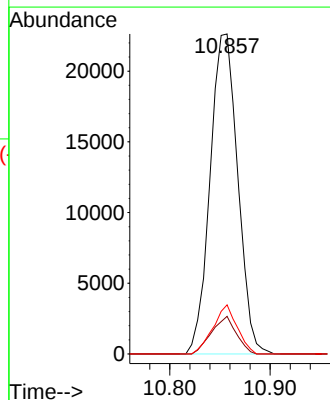
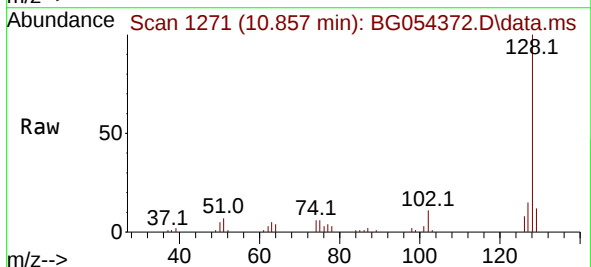
Instrument :
BNA_G
ClientSampleId :
ENV-DE-2(10-15)

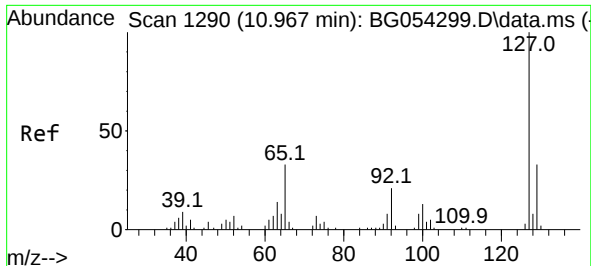
Tgt Ion: 82 Resp: 6607
Ion Ratio Lower Upper
82 100
128 43.9 27.9 41.9#
54 56.7 41.2 61.8



#31
Naphthalene
Concen: 8.431 ng
RT: 10.857 min Scan# 1271
Delta R.T. -0.004 min
Lab File: BG054372.D
Acq: 22 Jul 2022 23:34

Tgt Ion: 128 Resp: 43329
Ion Ratio Lower Upper
128 100
129 11.7 9.0 13.6
127 15.4 11.1 16.7

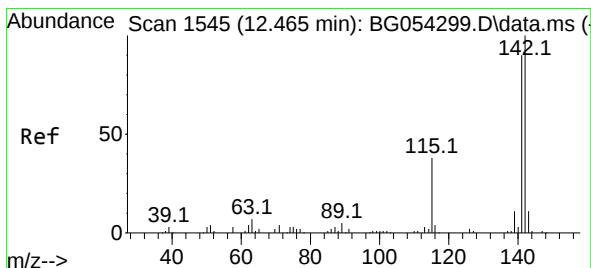
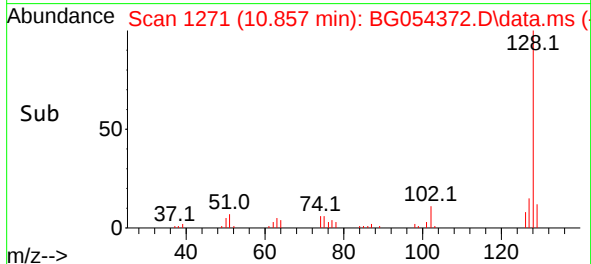
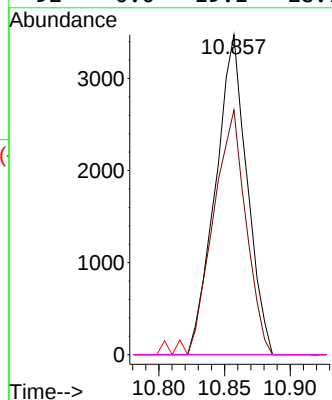
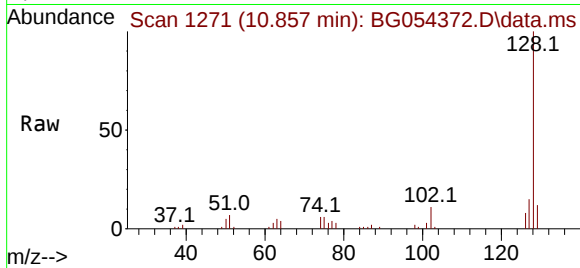




#33
4-Chloroaniline
Concen: 2.780 ng
RT: 10.857 min Scan# 11
Delta R.T. -0.110 min
Lab File: BG054372.D
Acq: 22 Jul 2022 23:34

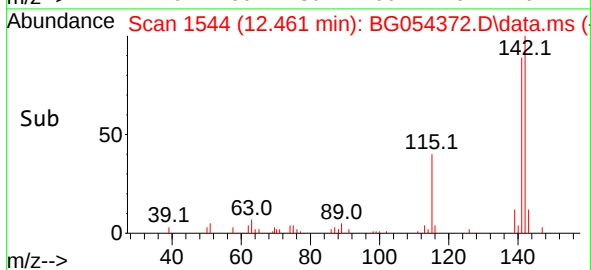
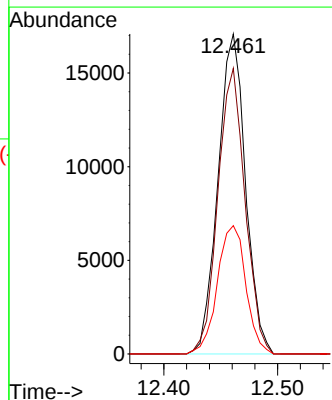
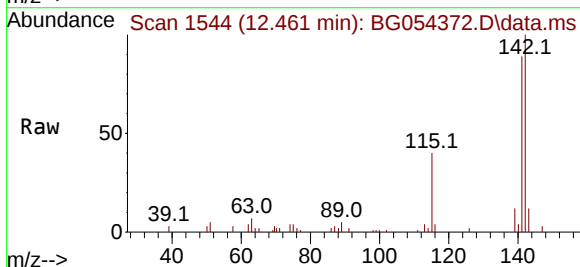
Instrument :
BNA_G
ClientSampleId :
ENV-DE-2(10-15)

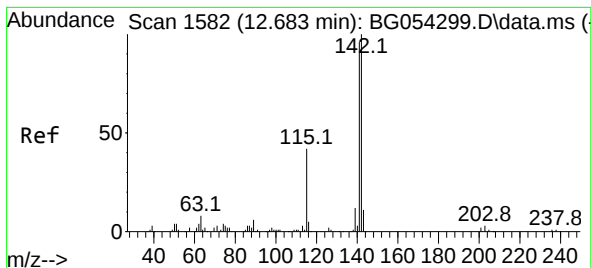
Tgt Ion:	127	Resp:	5809
Ion	Ratio	Lower	Upper
127	100		
129	76.5	26.3	39.5#
65	0.0	31.1	46.7#
92	0.0	19.1	28.7#



#37
2-Methylnaphthalene
Concen: 7.277 ng
RT: 12.461 min Scan# 1544
Delta R.T. -0.004 min
Lab File: BG054372.D
Acq: 22 Jul 2022 23:34

Tgt Ion:	142	Resp:	28719
Ion	Ratio	Lower	Upper
142	100		
141	89.3	72.3	108.5
115	40.1	33.7	50.5





#38

1-Methylnaphthalene

Concen: 6.675 ng

RT: 12.678 min Scan# 1

Delta R.T. -0.004 min

Lab File: BG054372.D

Acq: 22 Jul 2022 23:34

Instrument :

BNA_G

ClientSampleId :

ENV-DE-2(10-15)

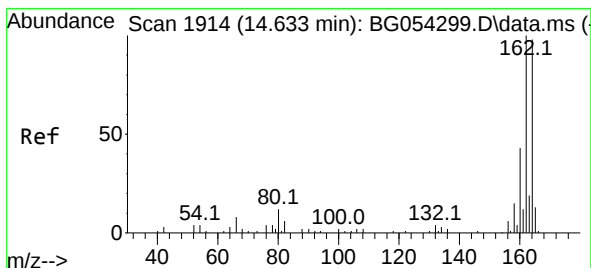
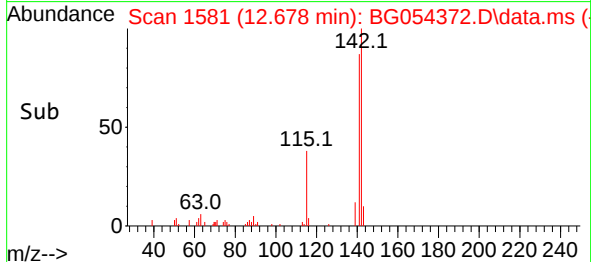
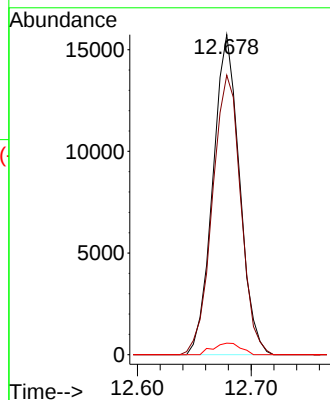
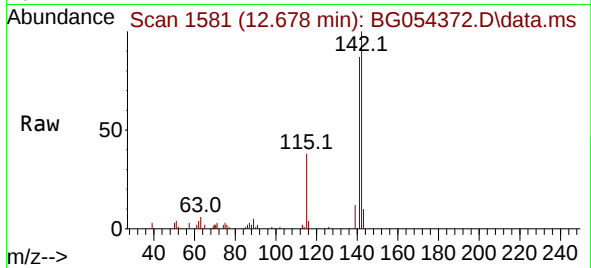
Tgt Ion:142 Resp: 25669

Ion Ratio Lower Upper

142 100

141 87.3 76.4 114.6

116 3.6 3.3 4.9



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.629 min Scan# 1913

Delta R.T. -0.004 min

Lab File: BG054372.D

Acq: 22 Jul 2022 23:34

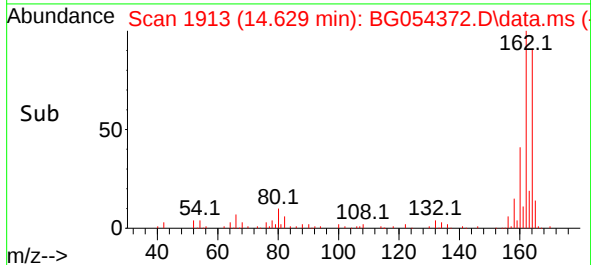
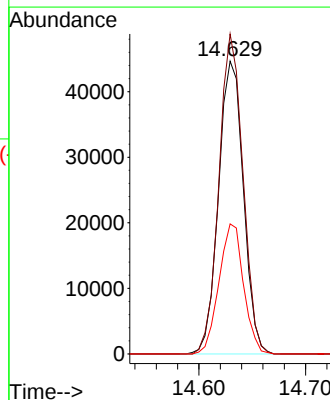
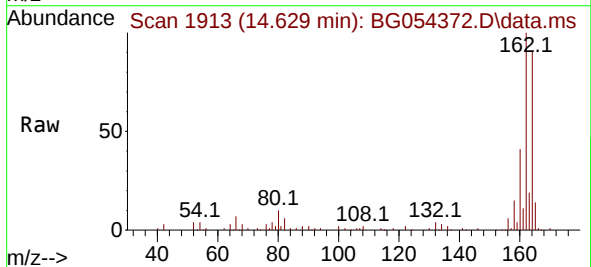
Tgt Ion:164 Resp: 72318

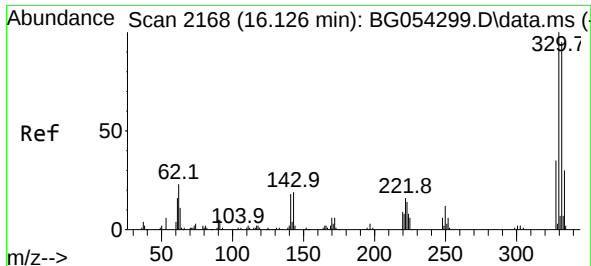
Ion Ratio Lower Upper

164 100

162 109.3 82.3 123.5

160 44.4 34.2 51.2





#42

2,4,6-Tribromophenol

Concen: 10.910 ng

RT: 16.122 min Scan# 21

Delta R.T. -0.004 min

Lab File: BG054372.D

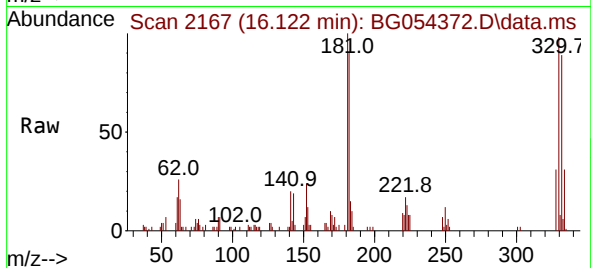
Acq: 22 Jul 2022 23:34

Instrument :

BNA_G

ClientSampleId :

ENV-DE-2(10-15)



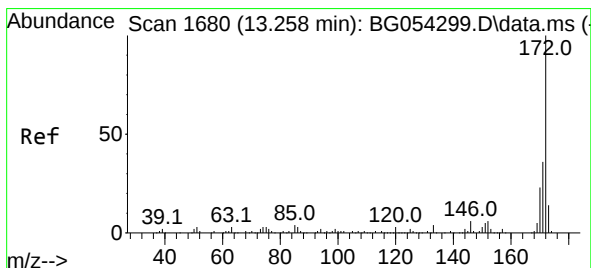
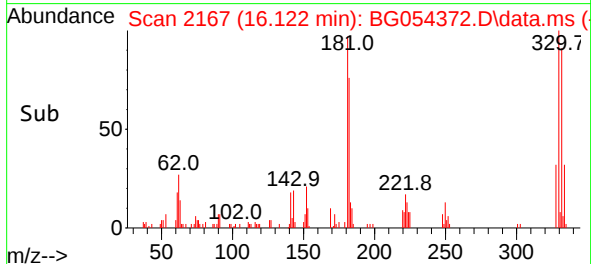
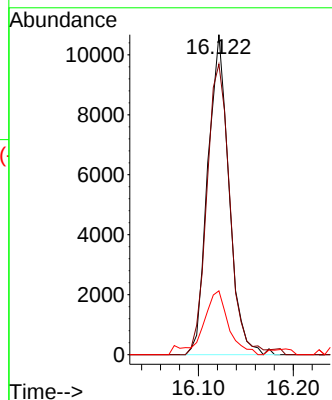
Tgt Ion:330 Resp: 16566

Ion Ratio Lower Upper

330 100

332 99.2 76.0 114.0

141 24.0 27.1 40.7#



#45

2-Fluorobiphenyl

Concen: 5.717 ng

RT: 13.248 min Scan# 1678

Delta R.T. -0.010 min

Lab File: BG054372.D

Acq: 22 Jul 2022 23:34

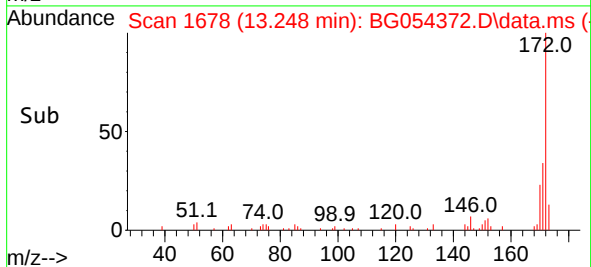
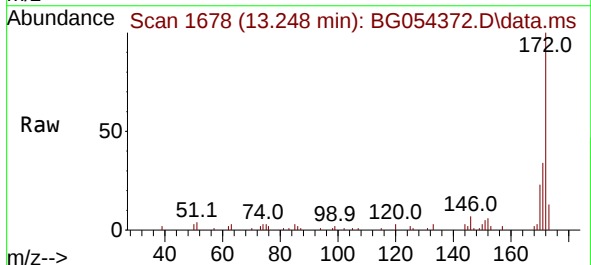
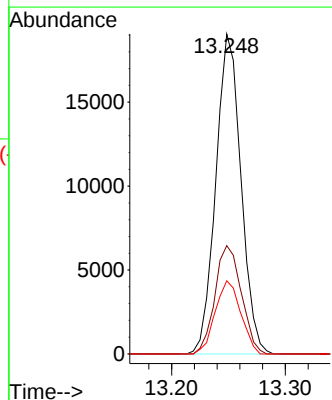
Tgt Ion:172 Resp: 29309

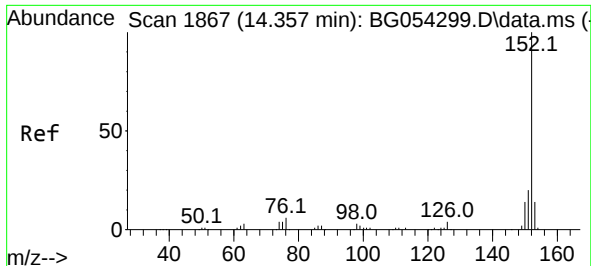
Ion Ratio Lower Upper

172 100

171 33.8 28.5 42.7

170 22.8 18.9 28.3

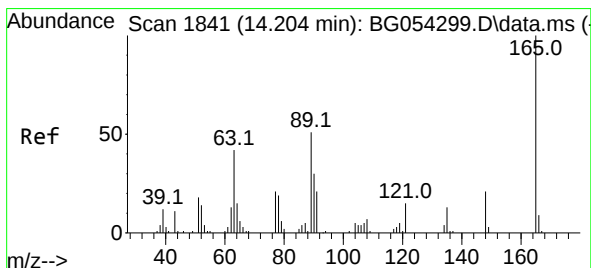
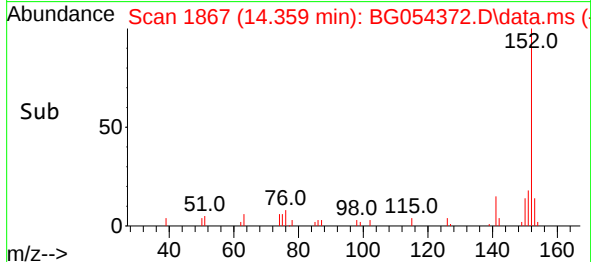
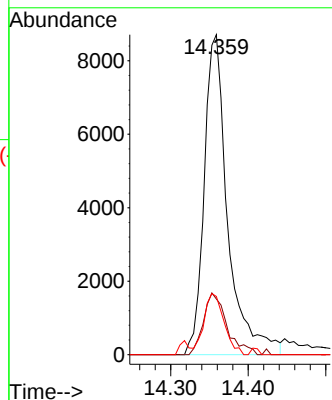
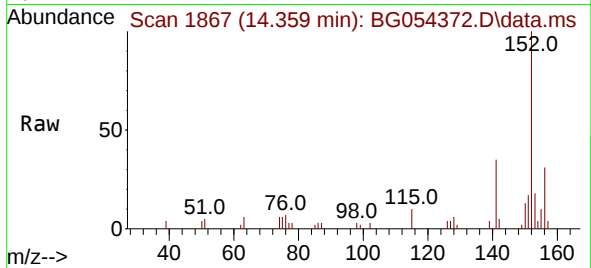




#49
Acenaphthylene
Concen: 2.990 ng
RT: 14.359 min Scan# 11
Delta R.T. 0.002 min
Lab File: BG054372.D
Acq: 22 Jul 2022 23:34

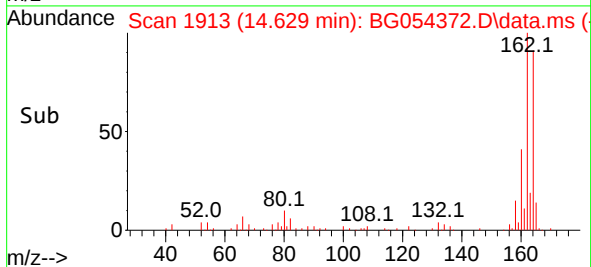
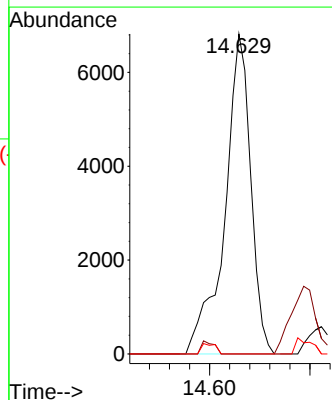
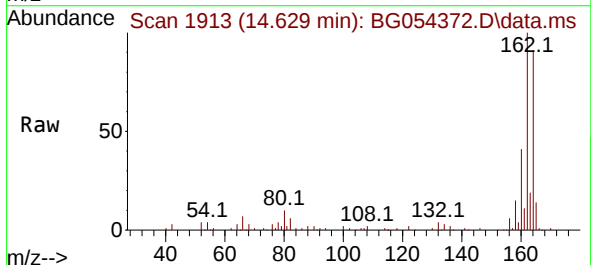
Instrument :
BNA_G
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ENV-DE-2(10-15)

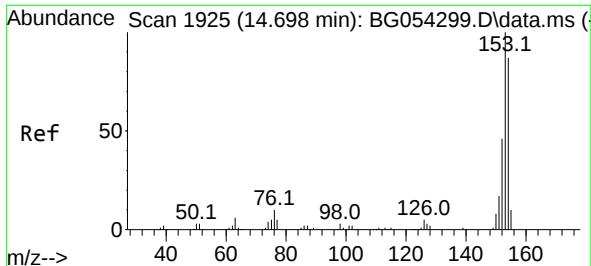
Tgt Ion:152 Resp: 18398
Ion Ratio Lower Upper
152 100
151 17.4 16.4 24.6
153 18.2 10.8 16.2#



#51
2,6-Dinitrotoluene
Concen: 9.873 ng
RT: 14.629 min Scan# 1913
Delta R.T. 0.425 min
Lab File: BG054372.D
Acq: 22 Jul 2022 23:34

Tgt Ion:165 Resp: 12233
Ion Ratio Lower Upper
165 100
63 0.0 54.1 81.1#
89 0.0 54.8 82.2#

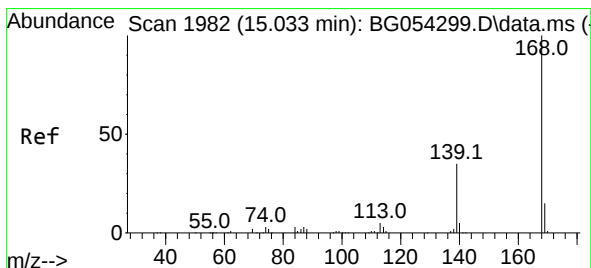
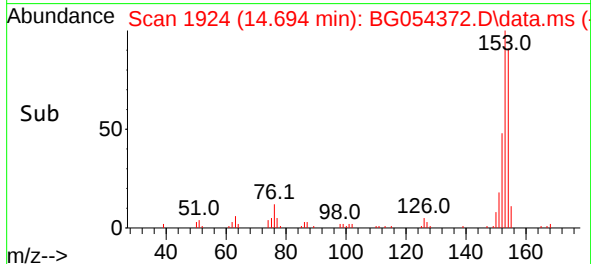
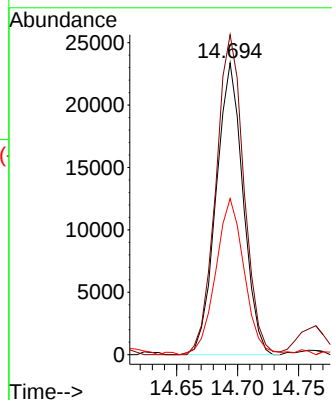
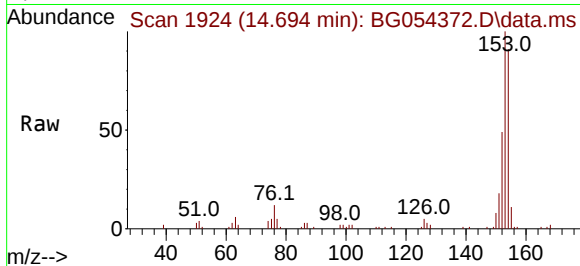




#52
Acenaphthene
Concen: 9.660 ng
RT: 14.694 min Scan# 1924
Delta R.T. -0.004 min
Lab File: BG054372.D
Acq: 22 Jul 2022 23:34

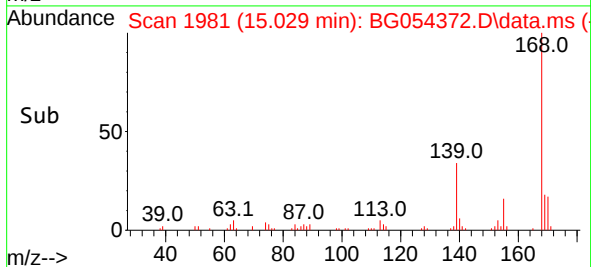
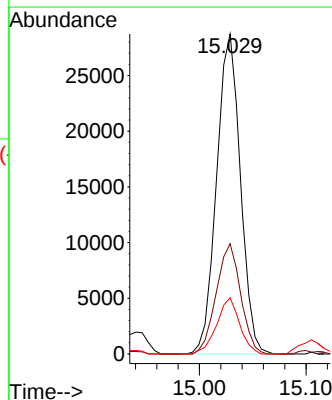
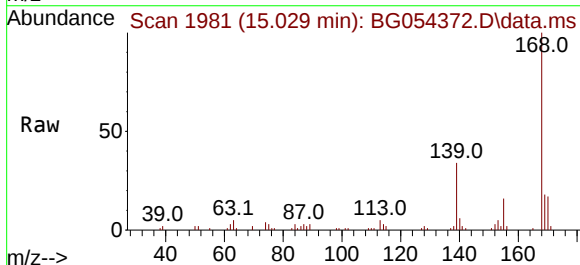
Instrument :
BNA_G
ClientSampleId :
ENV-DE-2(10-15)

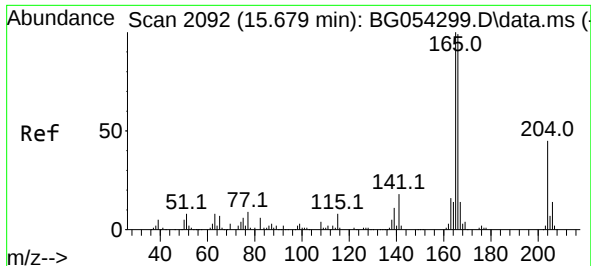
Tgt Ion:154 Resp: 35987
Ion Ratio Lower Upper
154 100
153 109.6 92.7 139.1
152 53.5 42.6 64.0



#55
Dibenzofuran
Concen: 6.704 ng
RT: 15.029 min Scan# 1981
Delta R.T. -0.004 min
Lab File: BG054372.D
Acq: 22 Jul 2022 23:34

Tgt Ion:168 Resp: 44440
Ion Ratio Lower Upper
168 100
139 34.5 30.5 45.7
169 17.5 10.3 15.5#

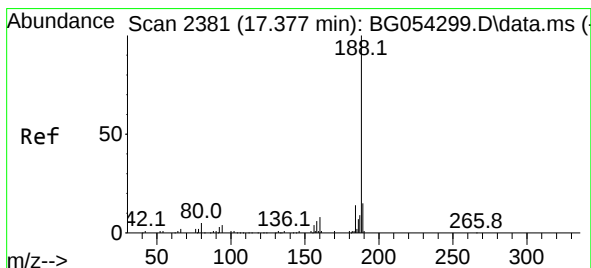
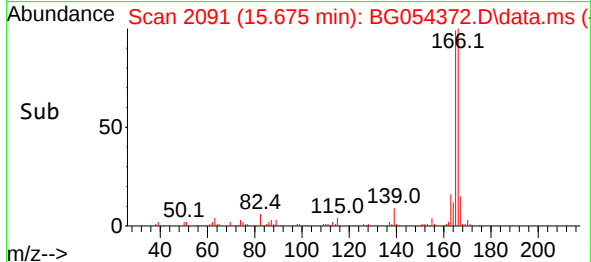
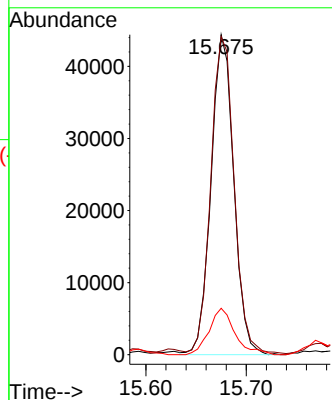
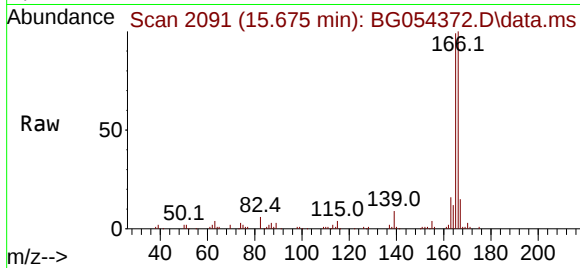




#58
Fluorene
Concen: 12.803 ng
RT: 15.675 min Scan# 2092
Delta R.T. -0.004 min
Lab File: BG054372.D
Acq: 22 Jul 2022 23:34

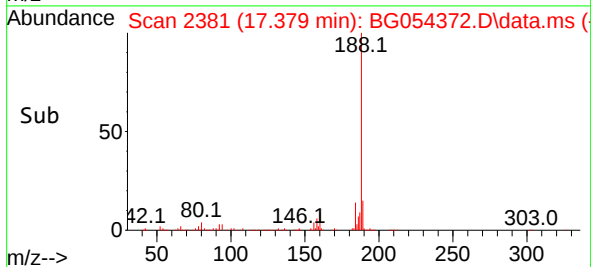
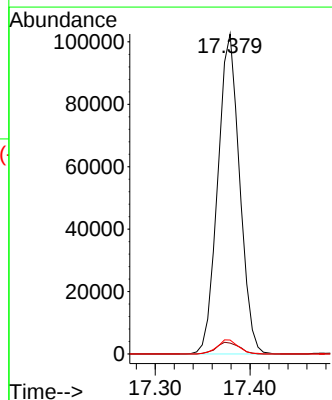
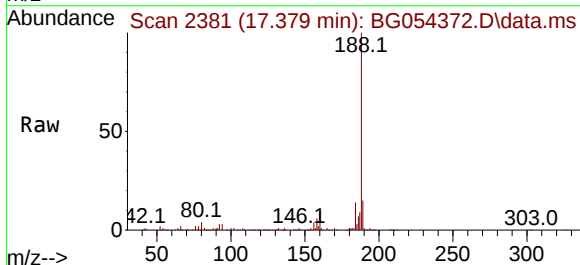
Instrument :
BNA_G
ClientSampleId :
ENV-DE-2(10-15)

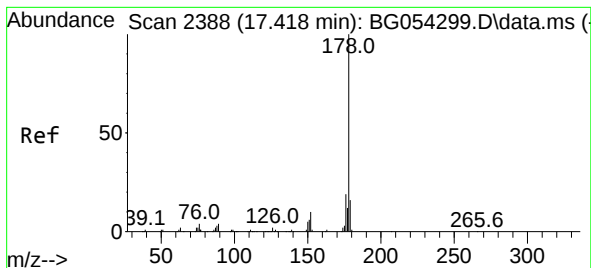
Tgt Ion:166 Resp: 69780
Ion Ratio Lower Upper
166 100
165 99.4 75.0 112.6
167 14.5 10.8 16.2



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.379 min Scan# 2381
Delta R.T. 0.002 min
Lab File: BG054372.D
Acq: 22 Jul 2022 23:34

Tgt Ion:188 Resp: 164290
Ion Ratio Lower Upper
188 100
94 3.4 5.4 8.0#
80 4.4 6.8 10.2#





#71

Phenanthrene

Concen: 104.550 ng

RT: 17.426 min Scan# 21

Delta R.T. 0.008 min

Lab File: BG054372.D

Acq: 22 Jul 2022 23:34

Instrument :

BNA_G

ClientSampleId :

ENV-DE-2(10-15)

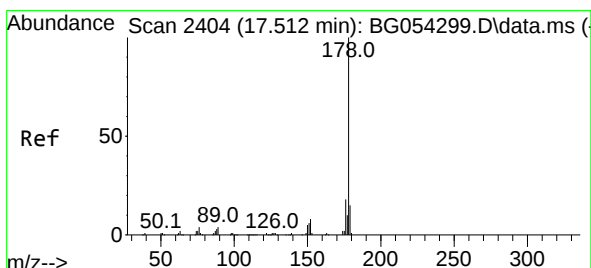
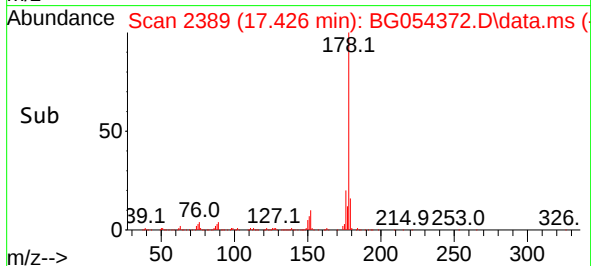
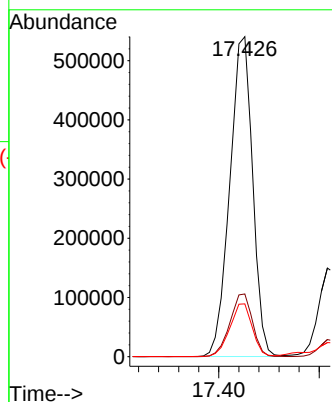
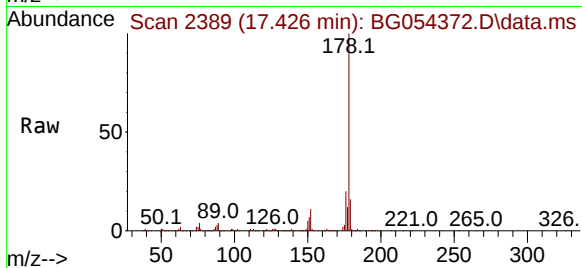
Tgt Ion:178 Resp: 855383

Ion Ratio Lower Upper

178 100

176 19.6 14.1 21.1

179 16.5 12.1 18.1



#72

Anthracene

Concen: 28.177 ng

RT: 17.508 min Scan# 2403

Delta R.T. -0.004 min

Lab File: BG054372.D

Acq: 22 Jul 2022 23:34

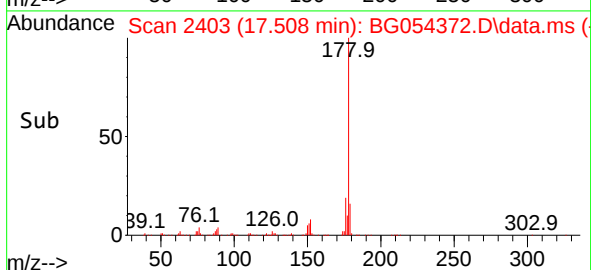
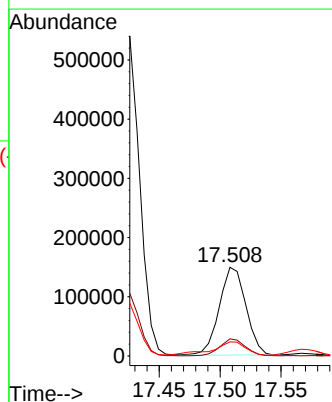
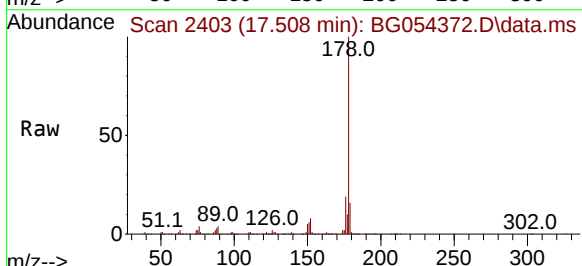
Tgt Ion:178 Resp: 226227

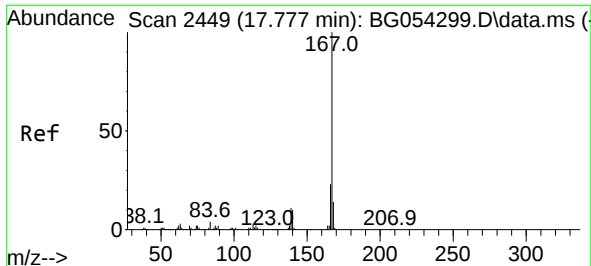
Ion Ratio Lower Upper

178 100

176 19.3 15.2 22.8

179 16.0 13.0 19.4

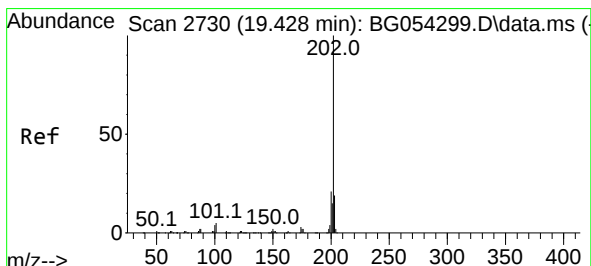
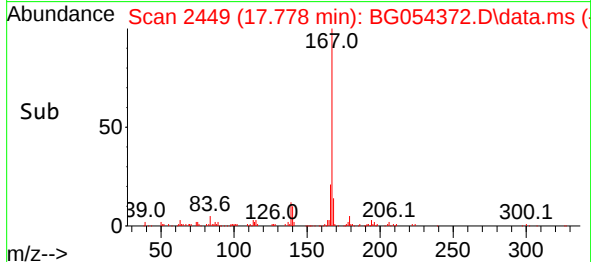
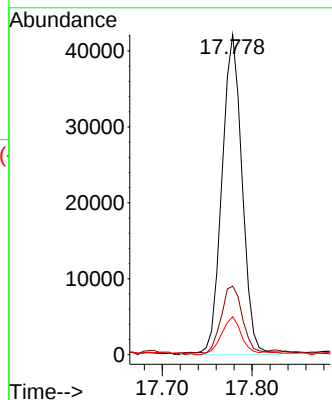
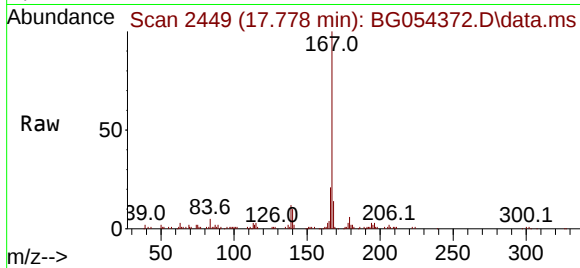




#73
 Carbazole
 Concen: 9.975 ng
 RT: 17.778 min Scan# 2449
 Delta R.T. 0.002 min
 Lab File: BG054372.D
 Acq: 22 Jul 2022 23:34

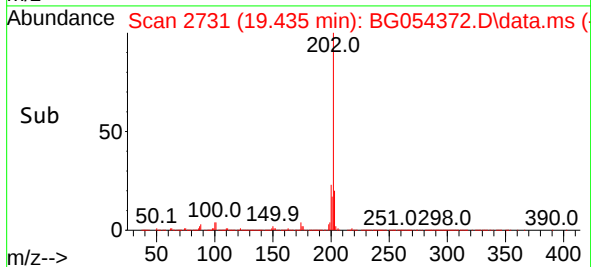
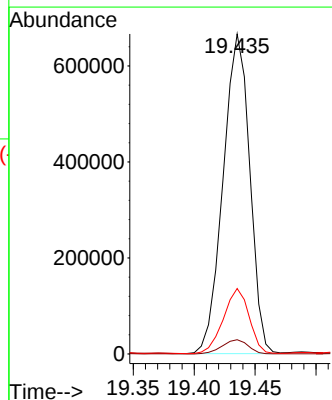
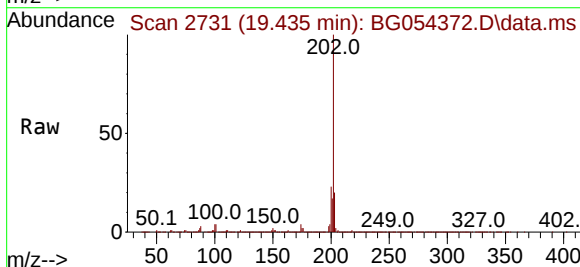
Instrument :
 BNA_G
 ClientSampleId :
 ENV-DE-2(10-15)

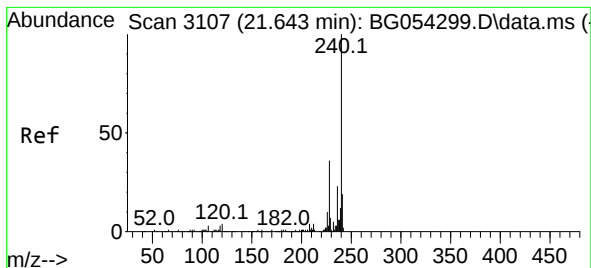
Tgt Ion:167 Resp: 65937
 Ion Ratio Lower Upper
 167 100
 166 21.4 18.2 27.2
 139 11.9 10.1 15.1



#75
 Fluoranthene
 Concen: 90.843 ng
 RT: 19.435 min Scan# 2731
 Delta R.T. 0.008 min
 Lab File: BG054372.D
 Acq: 22 Jul 2022 23:34

Tgt Ion:202 Resp: 1013151
 Ion Ratio Lower Upper
 202 100
 101 4.4 0.0 26.9
 203 20.4 0.0 37.2





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.644 min Scan# 3107

Delta R.T. 0.001 min

Lab File: BG054372.D

Acq: 22 Jul 2022 23:34

Instrument :

BNA_G

ClientSampleId :

ENV-DE-2(10-15)

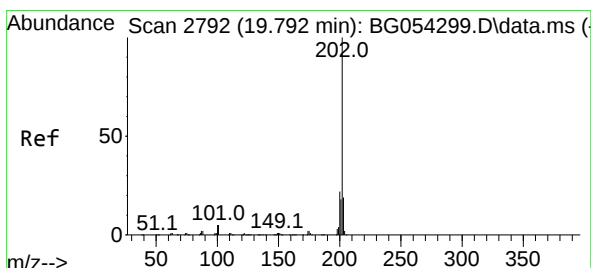
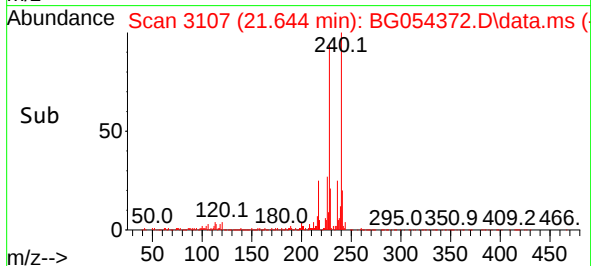
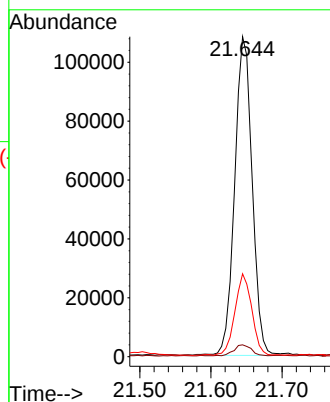
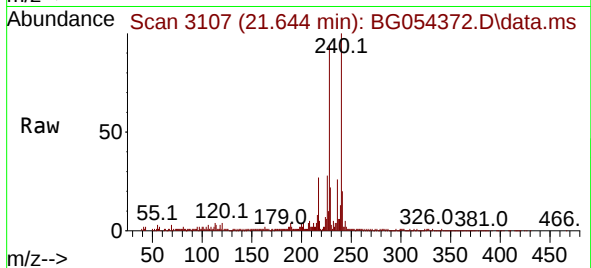
Tgt Ion:240 Resp: 185419

Ion Ratio Lower Upper

240 100

120 3.7 4.6 7.0#

236 25.9 20.2 30.4



#78

Pyrene

Concen: 89.952 ng

RT: 19.800 min Scan# 2793

Delta R.T. 0.008 min

Lab File: BG054372.D

Acq: 22 Jul 2022 23:34

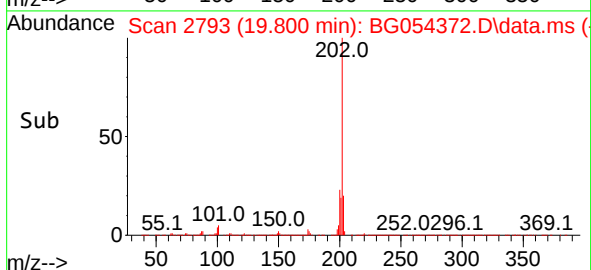
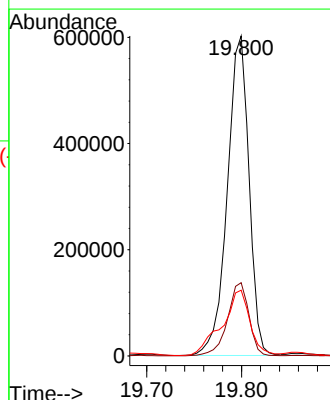
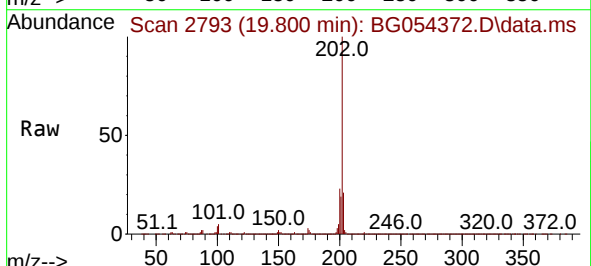
Tgt Ion:202 Resp: 957015

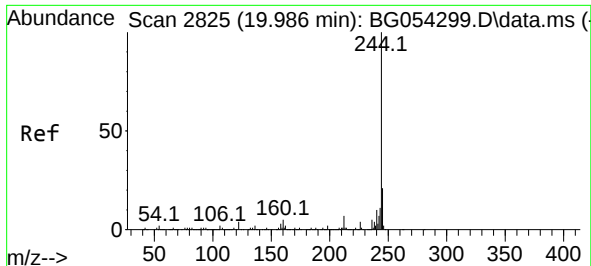
Ion Ratio Lower Upper

202 100

200 22.9 16.6 24.8

203 20.5 14.6 21.8

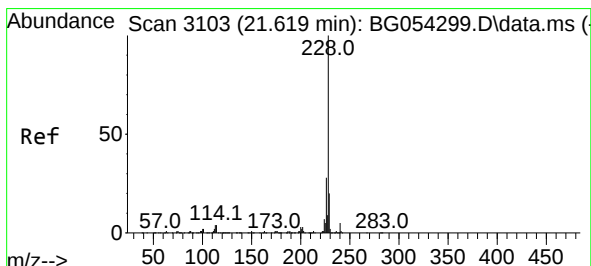
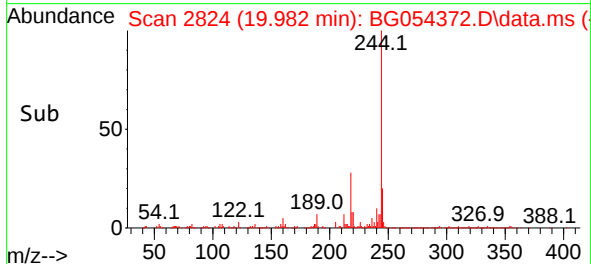
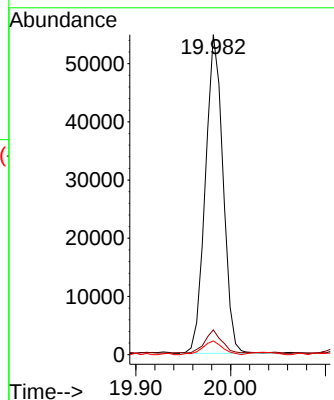
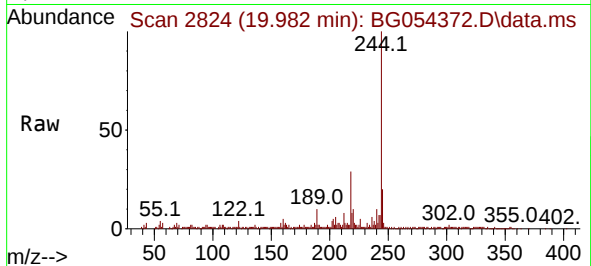




#79
 Terphenyl-d14
 Concen: 7.559 ng
 RT: 19.982 min Scan# 21
 Delta R.T. -0.004 min
 Lab File: BG054372.D
 Acq: 22 Jul 2022 23:34

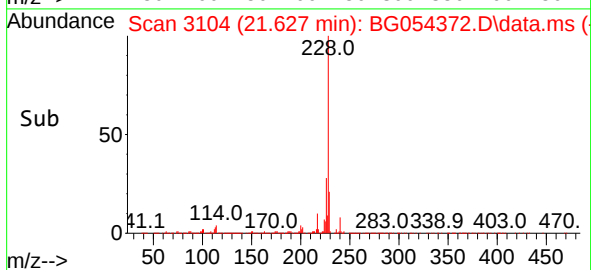
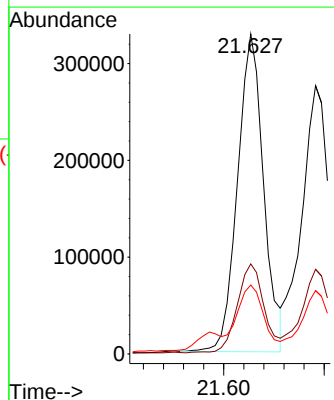
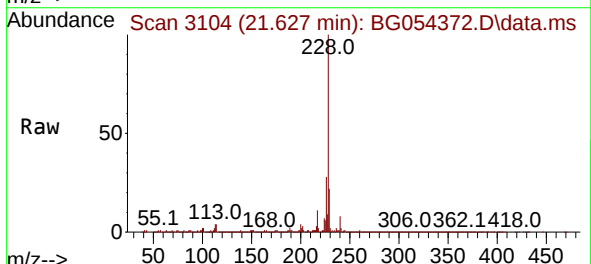
Instrument :
 BNA_G
 ClientSampleId :
 ENV-DE-2(10-15)

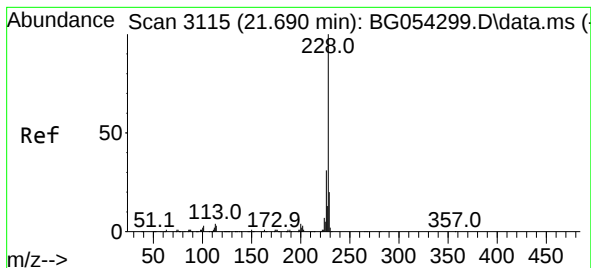
Tgt Ion:244 Resp: 70653
 Ion Ratio Lower Upper
 244 100
 212 7.7 6.5 9.7
 122 4.3 5.0 7.4#



#81
 Benzo(a)anthracene
 Concen: 50.359 ng
 RT: 21.627 min Scan# 3104
 Delta R.T. 0.008 min
 Lab File: BG054372.D
 Acq: 22 Jul 2022 23:34

Tgt Ion:228 Resp: 592736
 Ion Ratio Lower Upper
 228 100
 226 28.2 21.6 32.4
 229 21.5 16.2 24.2





#83

Chrysene

Concen: 53.303 ng

RT: 21.627 min Scan# 3115

Delta R.T. -0.063 min

Lab File: BG054372.D

Acq: 22 Jul 2022 23:34

Instrument :

BNA_G

ClientSampleId :

ENV-DE-2(10-15)

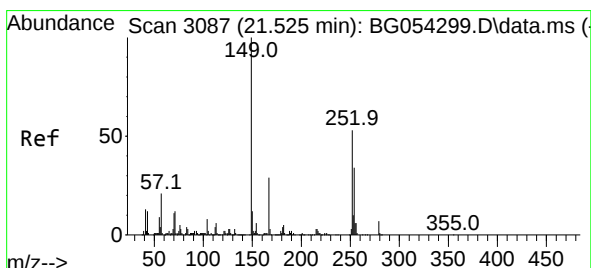
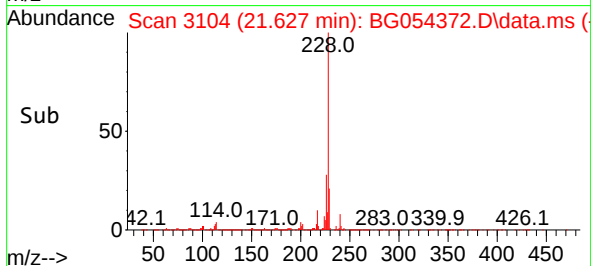
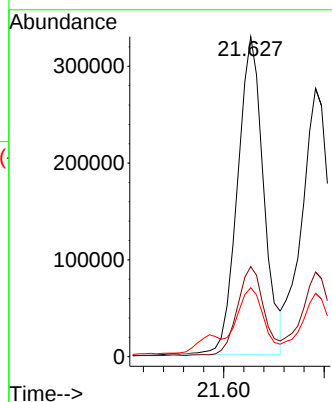
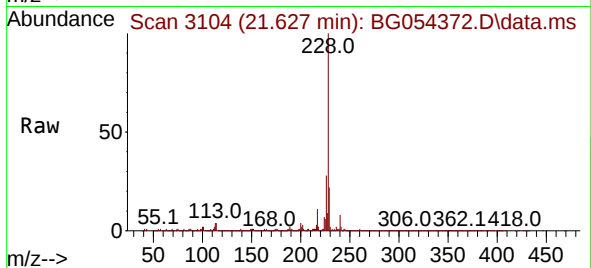
Tgt Ion:228 Resp: 592736

Ion Ratio Lower Upper

228 100

226 28.2 23.4 35.2

229 21.5 15.5 23.3



#84

Bis(2-ethylhexyl)phthalate

Concen: 3.756 ng

RT: 21.521 min Scan# 3086

Delta R.T. -0.004 min

Lab File: BG054372.D

Acq: 22 Jul 2022 23:34

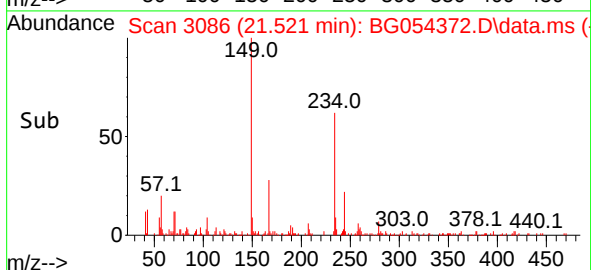
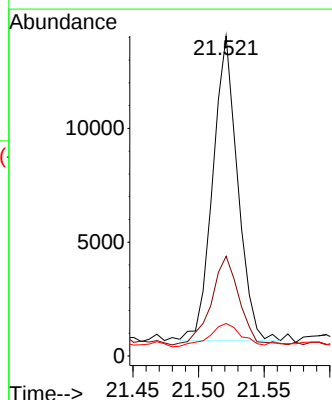
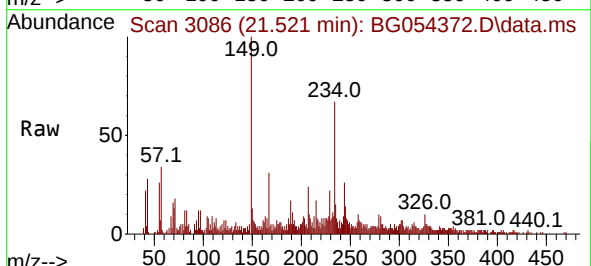
Tgt Ion:149 Resp: 17623

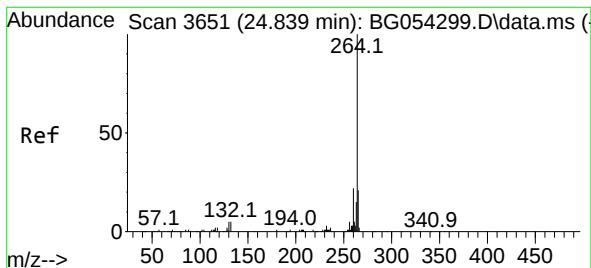
Ion Ratio Lower Upper

149 100

167 31.1 20.2 30.4#

279 10.2 3.6 5.4#





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.852 min Scan# 3

Delta R.T. 0.014 min

Lab File: BG054372.D

Acq: 22 Jul 2022 23:34

Instrument :

BNA_G

ClientSampleId :

ENV-DE-2(10-15)

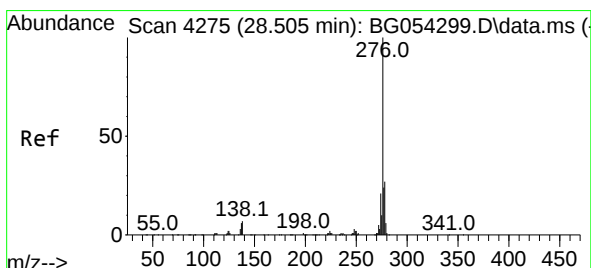
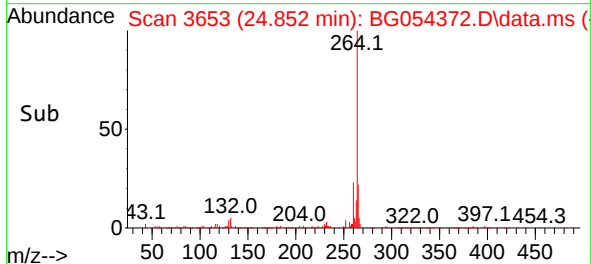
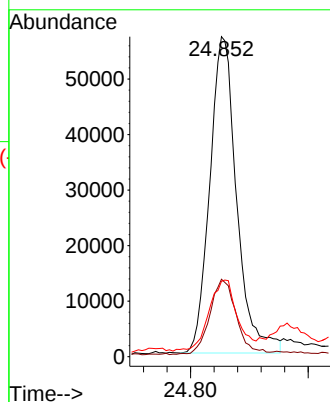
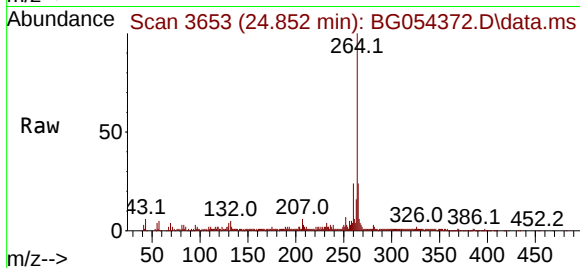
Tgt Ion:264 Resp: 180903

Ion Ratio Lower Upper

264 100

260 24.2 19.0 28.6

265 23.5 17.4 26.2



#87

Indeno(1,2,3-cd)pyrene

Concen: 12.546 ng

RT: 28.525 min Scan# 4278

Delta R.T. 0.019 min

Lab File: BG054372.D

Acq: 22 Jul 2022 23:34

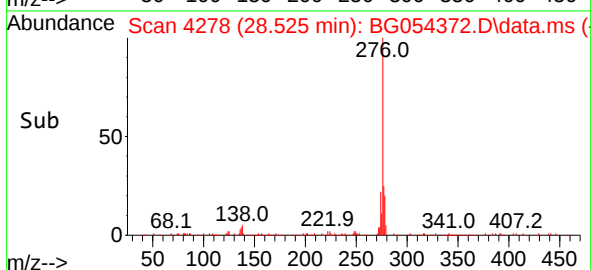
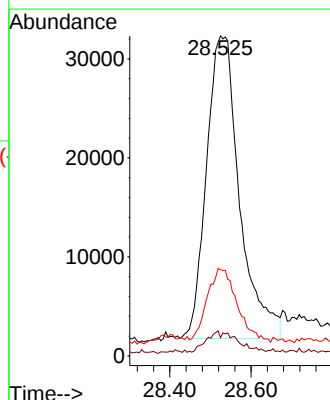
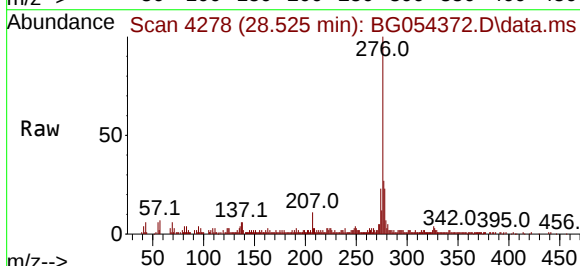
Tgt Ion:276 Resp: 172654

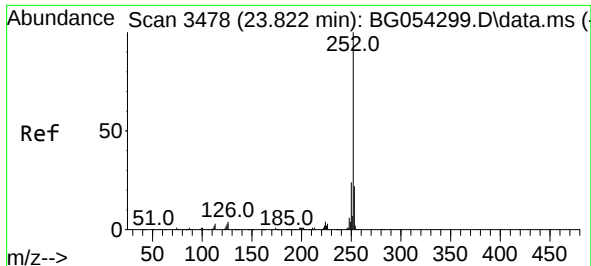
Ion Ratio Lower Upper

276 100

138 2.9 5.0 7.4#

277 22.1 20.3 30.5

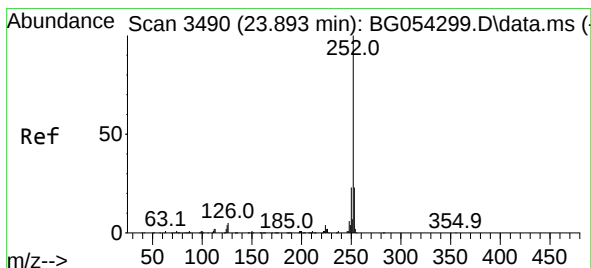
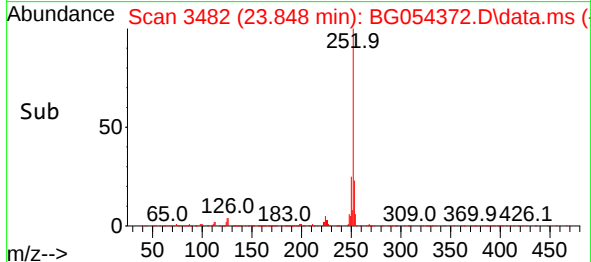
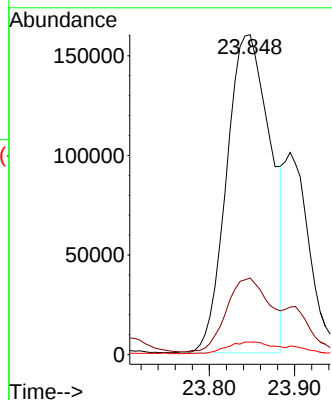
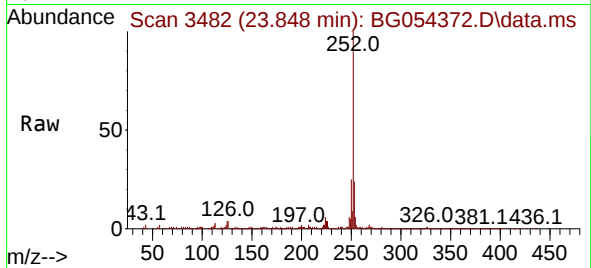




#88
Benzo(b)fluoranthene
Concen: 53.469 ng
RT: 23.848 min Scan# 3478
Delta R.T. 0.025 min
Lab File: BG054372.D
Acq: 22 Jul 2022 23:34

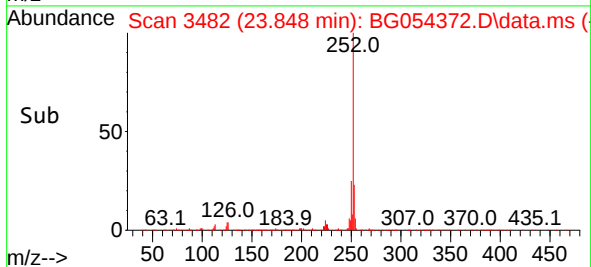
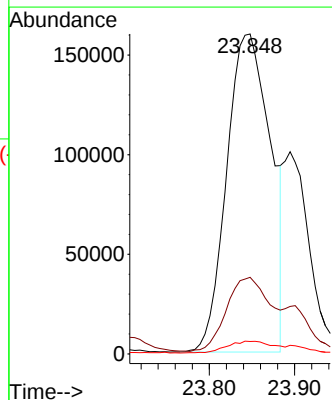
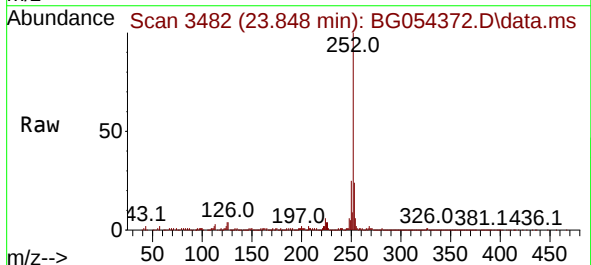
Instrument :
BNA_G
ClientSampleId :
ENV-DE-2(10-15)

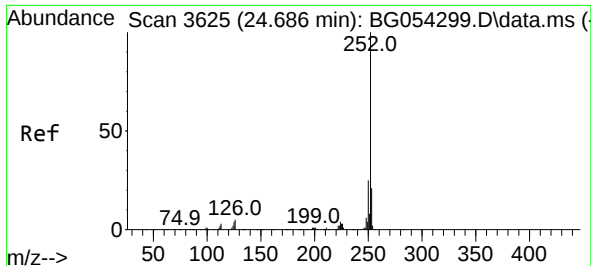
Tgt Ion:252 Resp: 572037
Ion Ratio Lower Upper
252 100
253 23.9 18.0 27.0
125 3.9 4.6 6.8#



#89
Benzo(k)fluoranthene
Concen: 53.726 ng
RT: 23.848 min Scan# 3482
Delta R.T. -0.045 min
Lab File: BG054372.D
Acq: 22 Jul 2022 23:34

Tgt Ion:252 Resp: 572037
Ion Ratio Lower Upper
252 100
253 23.9 18.4 27.6
125 3.9 4.8 7.2#

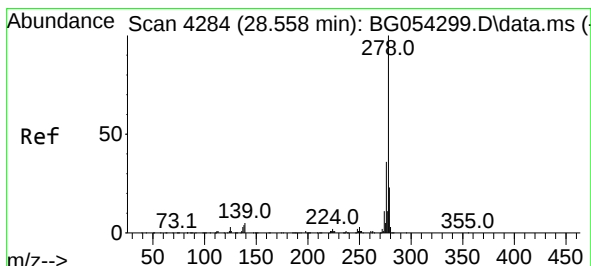
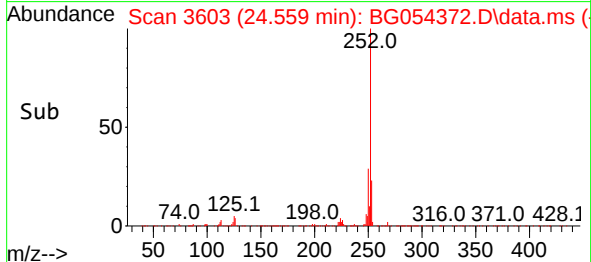
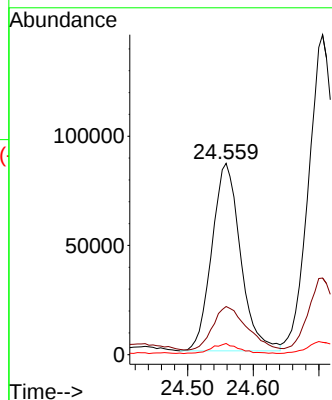
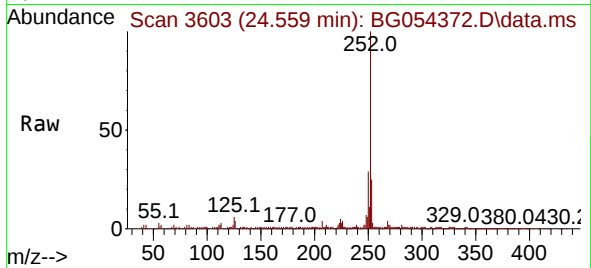




#90
Benzo(a)pyrene
Concen: 28.506 ng
RT: 24.559 min Scan# 30
Delta R.T. -0.127 min
Lab File: BG054372.D
Acq: 22 Jul 2022 23:34

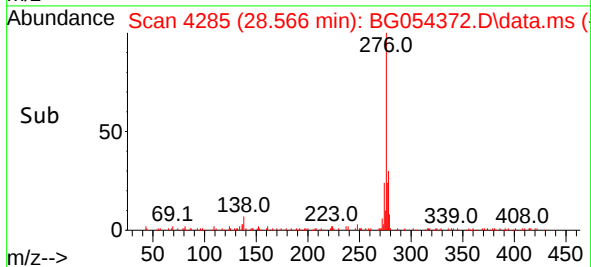
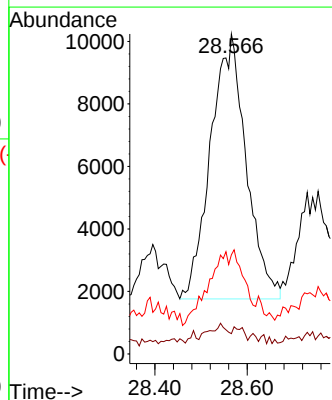
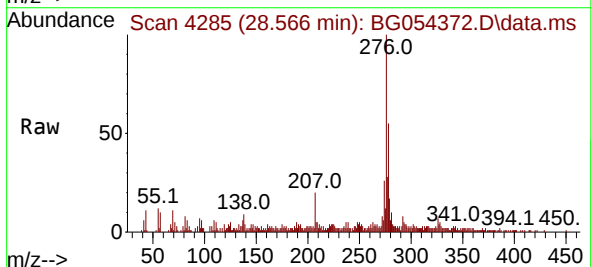
Instrument :
BNA_G
ClientSampleId :
ENV-DE-2(10-15)

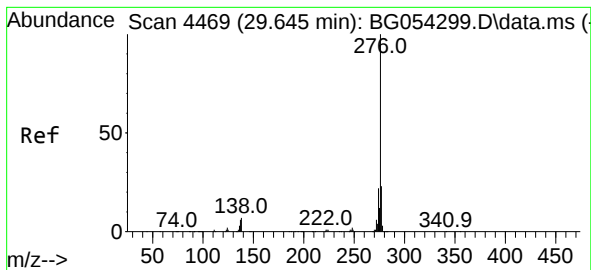
Tgt Ion:252 Resp: 260449
Ion Ratio Lower Upper
252 100
253 25.2 17.8 26.8
125 5.8 4.3 6.5



#91
Dibenzo(a,h)anthracene
Concen: 4.002 ng
RT: 28.566 min Scan# 4285
Delta R.T. 0.008 min
Lab File: BG054372.D
Acq: 22 Jul 2022 23:34

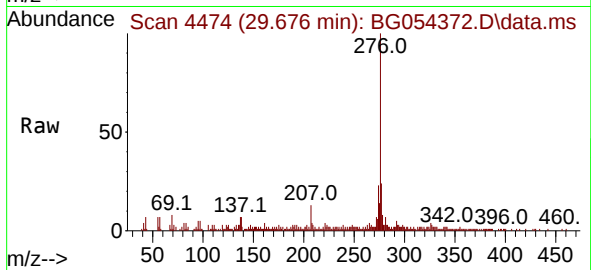
Tgt Ion:278 Resp: 45287
Ion Ratio Lower Upper
278 100
139 6.4 7.2 10.8#
279 31.0 18.6 27.8#





#92
 Benzo(g,h,i)perylene
 Concen: 12.761 ng
 RT: 29.676 min Scan# 44
 Delta R.T. 0.031 min
 Lab File: BG054372.D
 Acq: 22 Jul 2022 23:34

Instrument :
 BNA_G
 ClientSampleId :
 ENV-DE-2(10-15)



Tgt Ion:276 Resp: 142524
 Ion Ratio Lower Upper
 276 100
 277 24.2 17.3 25.9
 138 8.5 9.6 14.4#

