

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG122122\
 Data File : BG056052.D
 Acq On : 21 Dec 2022 17:23
 Operator : CG/JU
 Sample : N6151-05
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 FS-01-(0-2)

Quant Time: Dec 22 01:26:03 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG121322.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 21 01:11:10 2022
 Response via : Initial Calibration

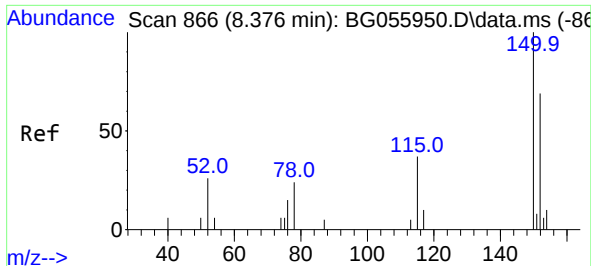
Manual Integrations APPROVED

Reviewed By : Christian Giraldo 12/22/2022
 Supervised By : mohammad ahmed 12/22/2022

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.359	152	11217	20.000	ng	0.00
21) Naphthalene-d8	11.197	136	42848	20.000	ng	# 0.00
39) Acenaphthene-d10	14.969	164	34317	20.000	ng	0.00
64) Phenanthrene-d10	17.707	188	82269	20.000	ng	# 0.00
76) Chrysene-d12	22.013	240	84257	20.000	ng	# 0.00
86) Perylene-d12	25.515	264	103277	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.879	112	53211	111.250	ng	0.00
7) Phenol-d6	7.489	99	66991	108.900	ng	0.00
23) Nitrobenzene-d5	9.534	82	50804	82.858	ng	0.00
42) 2,4,6-Tribromophenol	16.449	330	81593	98.604	ng	0.00
45) 2-Fluorobiphenyl	13.600	172	172075	70.324	ng	0.00
79) Terphenyl-d14	20.280	244	304466	63.865	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	11.244	128	13958	6.174	ng	# 95
37) 2-Methylnaphthalene	12.824	142	6217	3.112	ng	93
38) 1-Methylnaphthalene	13.036	142	4881m	2.508	ng	
49) Acenaphthylene	14.699	152	6518	2.161	ng	# 97
52) Acenaphthene	15.033	154	5239	2.587	ng	98
58) Fluorene	16.003	166	6907	2.481	ng	# 90
71) Phenanthrene	17.748	178	178344	41.366	ng	98
72) Anthracene	17.836	178	36553	8.570	ng	98
73) Carbazole	18.100	167	11571	3.289	ng	95
75) Fluoranthene	19.740	202	340522	56.404	ng	99
78) Pyrene	20.098	202	415421	81.480	ng	100
81) Benzo(a)anthracene	21.990	228	274223	46.251	ng	98
83) Chrysene	22.066	228	279303m	50.264	ng	
87) Indeno(1,2,3-cd)pyrene	29.546	276	255637	30.781	ng	94
88) Benzo(b)fluoranthene	24.399	252	451371m	67.531	ng	
89) Benzo(k)fluoranthene	24.464	252	109333m	16.395	ng	
90) Benzo(a)pyrene	25.357	252	382439	67.691	ng	100
91) Dibenzo(a,h)anthracene	29.587	278	54555	7.848	ng	# 97
92) Benzo(g,h,i)perylene	30.815	276	325042	48.364	ng	98

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



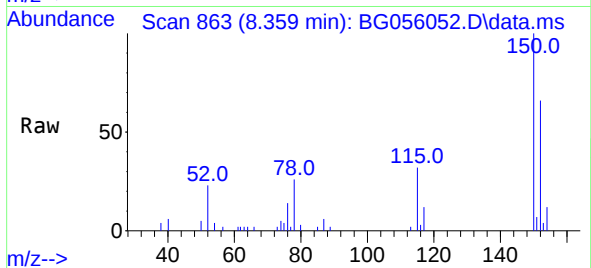
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.359 min Scan# 80
Delta R.T. -0.006 min
Lab File: BG056052.D
Acq: 21 Dec 2022 17:23

Instrument :

BNA_G

ClientSampleId :

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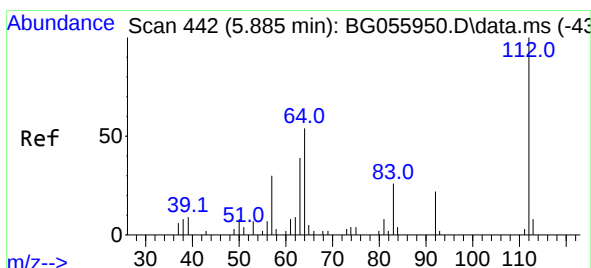
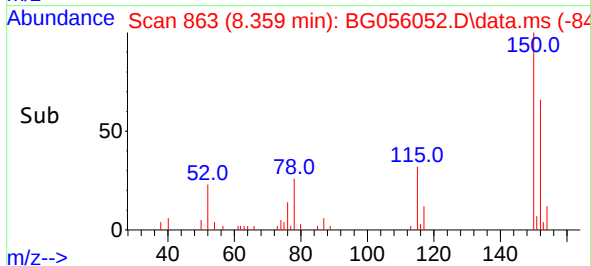
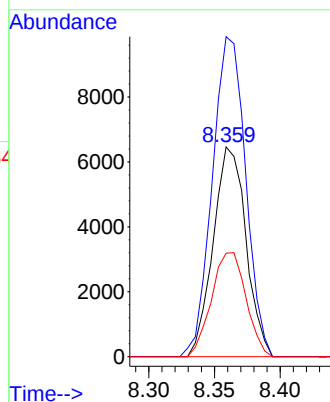


Tgt Ion:152 Resp: 1121
Ion Ratio Lower Upper
152 100
150 152.6 115.7 173.5
115 49.3 43.0 64.4

Manual Integrations

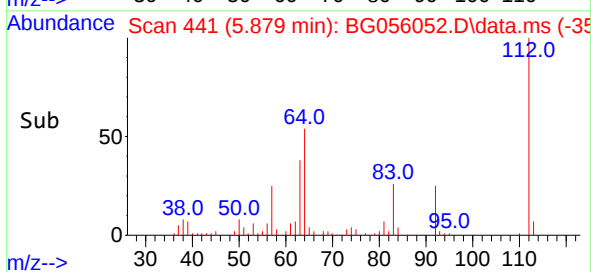
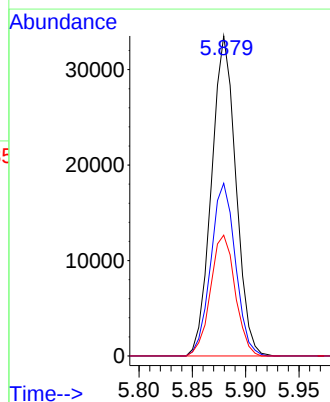
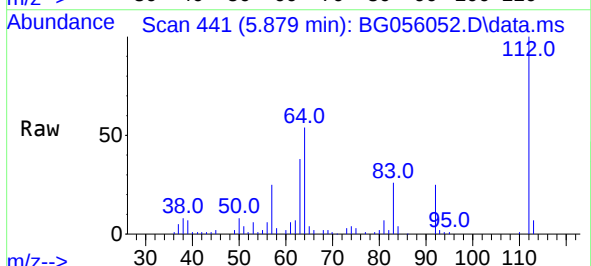
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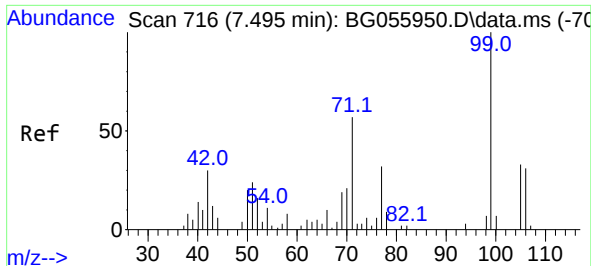
Reviewed By :Christian Giraldo 12/22/2022
Supervised By :mohammad ahmed 12/22/2022



#5
2-Fluorophenol
Concen: 111.250 ng
RT: 5.879 min Scan# 441
Delta R.T. -0.000 min
Lab File: BG056052.D
Acq: 21 Dec 2022 17:23

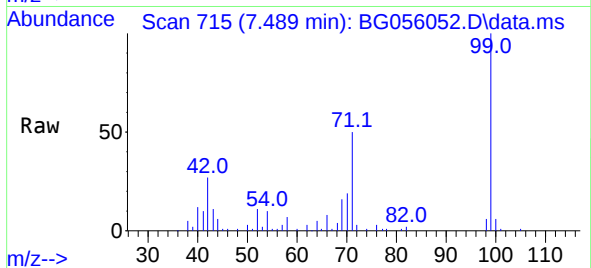
Tgt Ion:112 Resp: 53211
Ion Ratio Lower Upper
112 100
64 54.0 43.0 64.4
63 37.7 31.4 47.2





#7
Phenol-d6
Concen: 108.900 ng
RT: 7.489 min Scan# 716
Delta R.T. -0.006 min
Lab File: BG056052.D
Acq: 21 Dec 2022 17:23

Instrument :
BNA_G
ClientSampleId :
FS-01-(0-2)

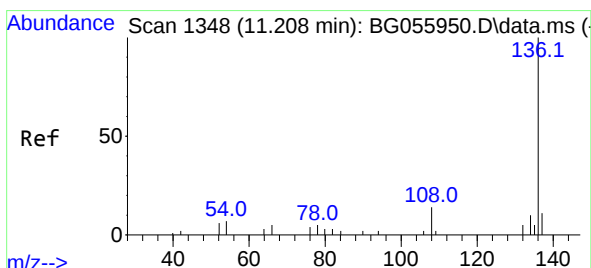
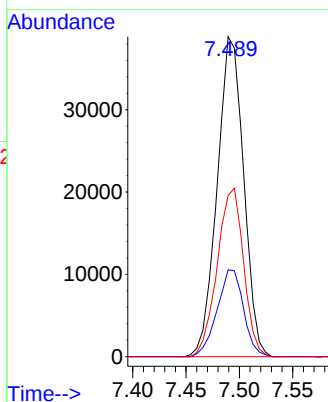
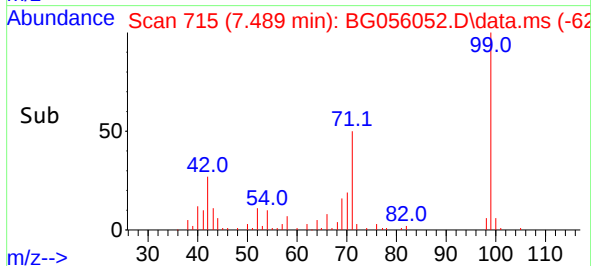


Tgt Ion: 99 Resp: 6699

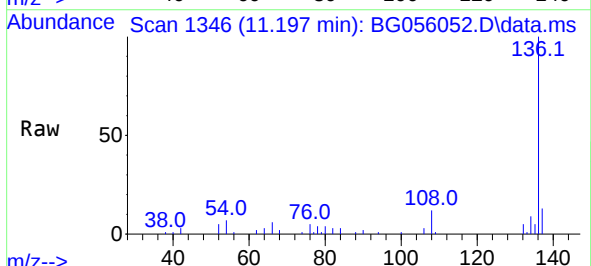
Ion	Ratio	Lower	Upper
99	100		
42	27.1	24.3	36.5
71	50.4	45.6	68.4

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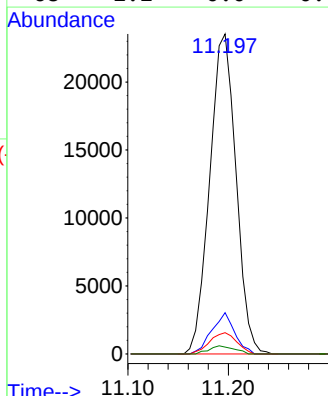
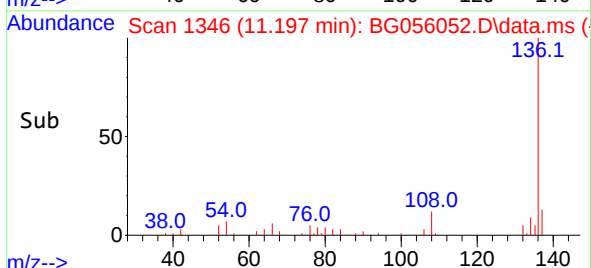


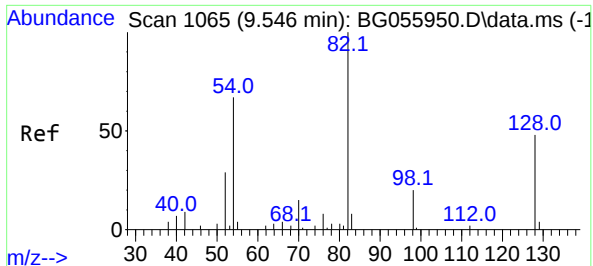
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.197 min Scan# 1346
Delta R.T. -0.000 min
Lab File: BG056052.D
Acq: 21 Dec 2022 17:23



Tgt Ion:136 Resp: 42848

Ion	Ratio	Lower	Upper
136	100		
137	12.9	9.2	13.8
54	6.6	5.6	8.4
68	2.2	0.0	0.0





#23

Nitrobenzene-d5

Concen: 82.858 ng

RT: 9.534 min Scan# 1063

Delta R.T. -0.006 min

Lab File: BG056052.D

Acq: 21 Dec 2022 17:23

Instrument :

BNA_G

ClientSampleId :

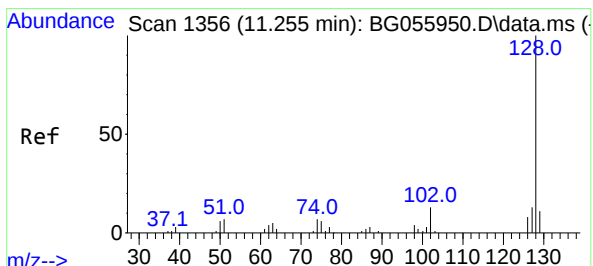
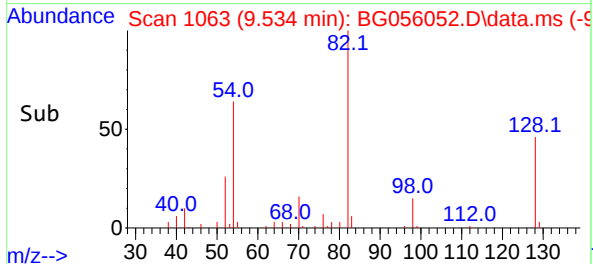
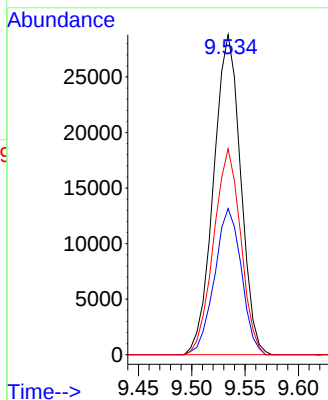
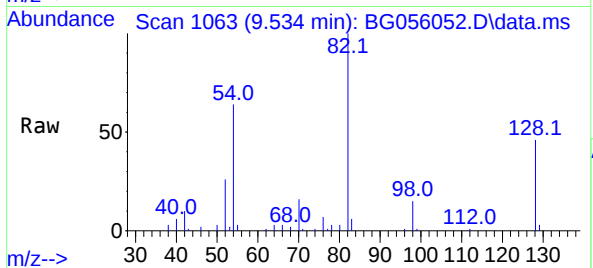
FS-01-(0-2)

Tgt Ion:	82	Resp:	50804
Ion Ratio	Lower	Upper	
82	100		
128	45.7	38.4	57.6
54	64.4	53.3	79.9

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Supervised By :mohammad ahmed 12/22/2022



#31

Naphthalene

Concen: 6.174 ng

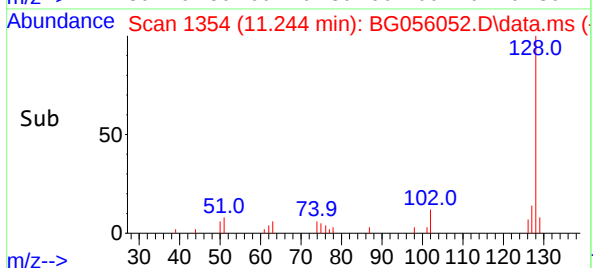
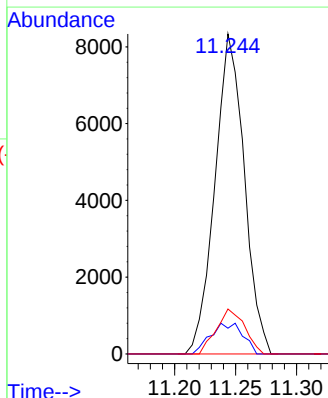
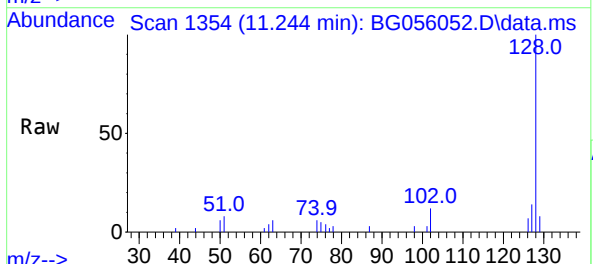
RT: 11.244 min Scan# 1354

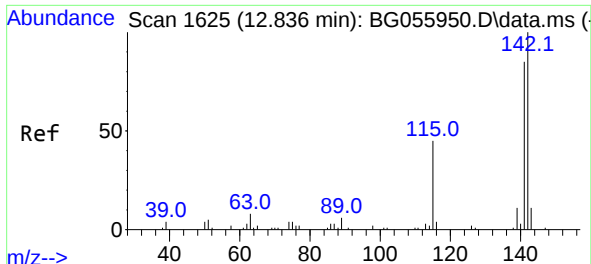
Delta R.T. -0.006 min

Lab File: BG056052.D

Acq: 21 Dec 2022 17:23

Tgt Ion:	128	Resp:	13958
Ion Ratio	Lower	Upper	
128	100		
129	8.1	8.7	13.1#
127	14.0	10.3	15.5





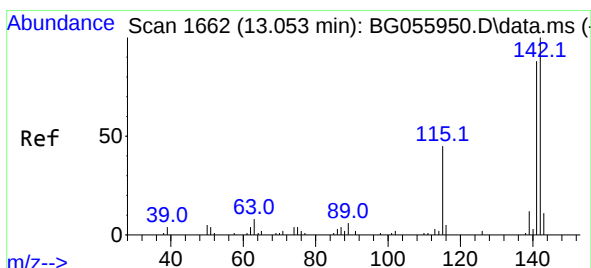
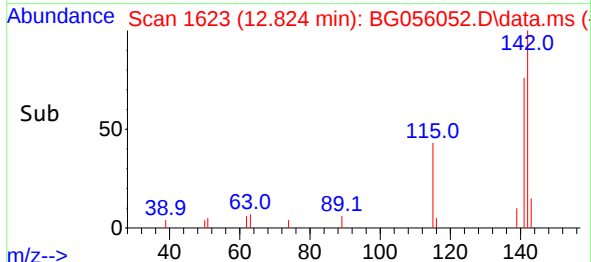
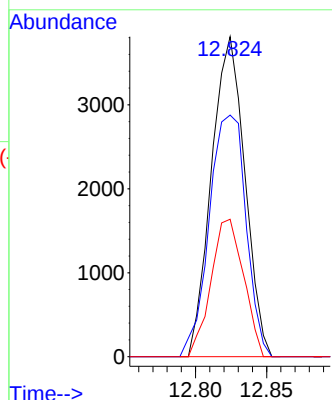
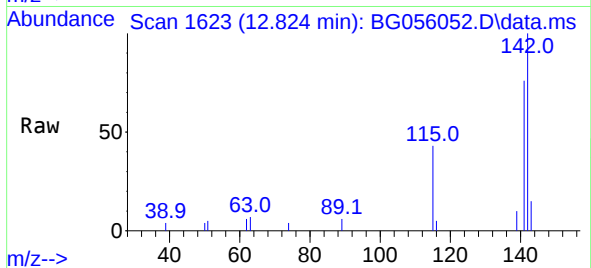
#37
2-Methylnaphthalene
Concen: 3.112 ng
RT: 12.824 min Scan# 1625
Delta R.T. -0.000 min
Lab File: BG056052.D
Acq: 21 Dec 2022 17:23

Instrument :
BNA_G
ClientSampleId :
FS-01-(0-2)

Tgt Ion:142 Resp: 621
Ion Ratio Lower Upper
142 100
141 75.5 67.8 101.6
115 43.0 35.7 53.5

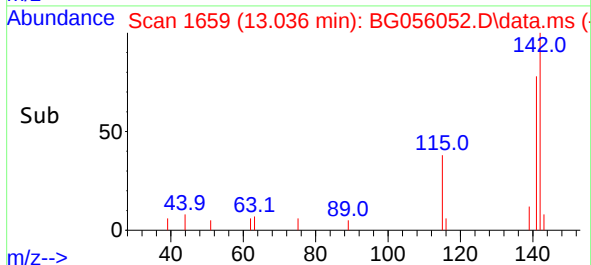
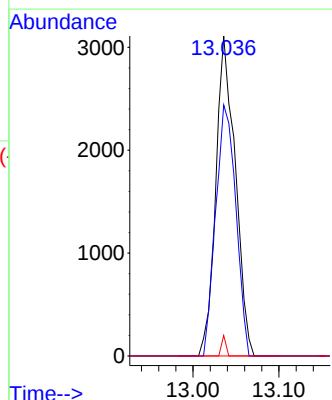
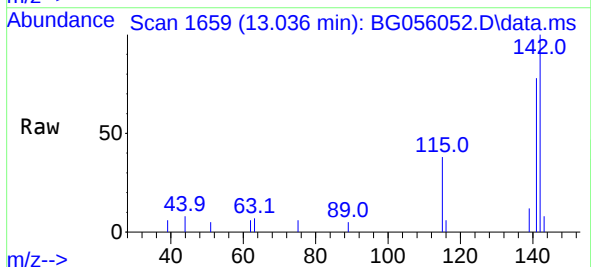
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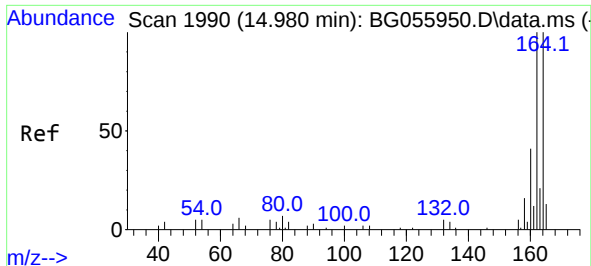
Reviewed By :Christian Giraldo 12/22/2022
Supervised By :mohammad ahmed 12/22/2022



#38
1-Methylnaphthalene
Concen: 2.508 ng m
RT: 13.036 min Scan# 1659
Delta R.T. -0.006 min
Lab File: BG056052.D
Acq: 21 Dec 2022 17:23

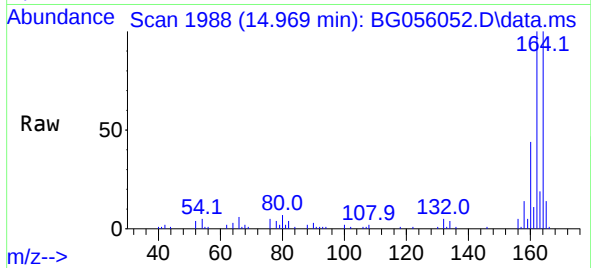
Tgt Ion:142 Resp: 4881
Ion Ratio Lower Upper
142 100
141 78.5 70.2 105.2
116 6.4 3.8 5.8#





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.969 min Scan# 1990
Delta R.T. -0.006 min
Lab File: BG056052.D
Acq: 21 Dec 2022 17:23

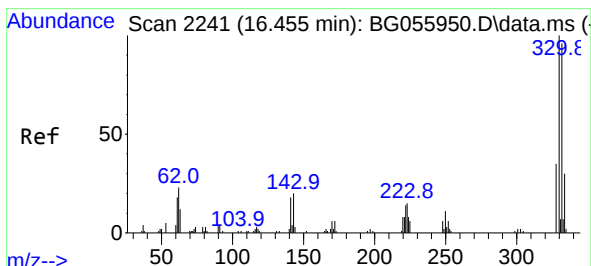
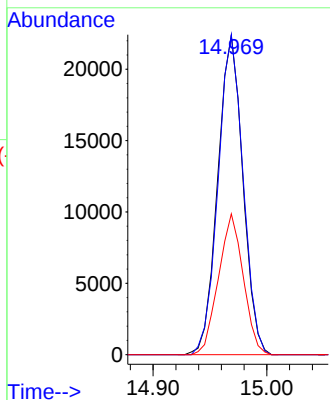
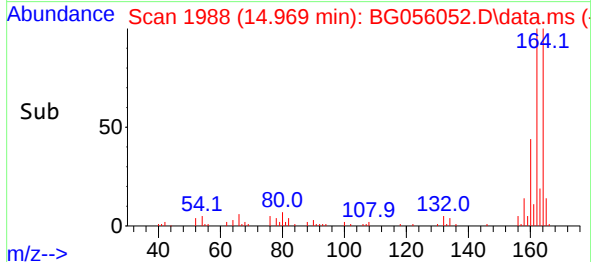
Instrument :
BNA_G
ClientSampleId :
FS-01-(0-2)



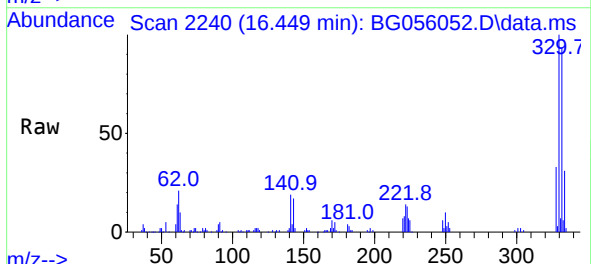
Tgt Ion:164 Resp: 3431
Ion Ratio Lower Upper
164 100
162 100.3 79.8 119.8
160 44.1 33.0 49.4

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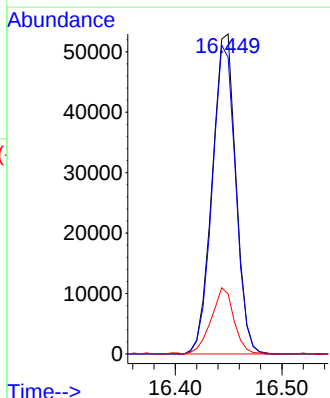
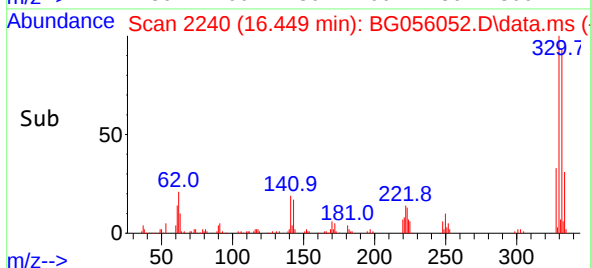
Reviewed By :Christian Giraldo 12/22/2022
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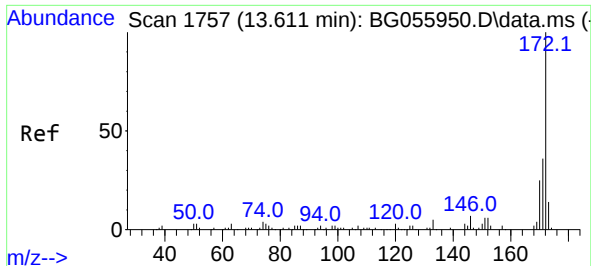


#42
2,4,6-Tribromophenol
Concen: 98.604 ng
RT: 16.449 min Scan# 2240
Delta R.T. -0.000 min
Lab File: BG056052.D
Acq: 21 Dec 2022 17:23



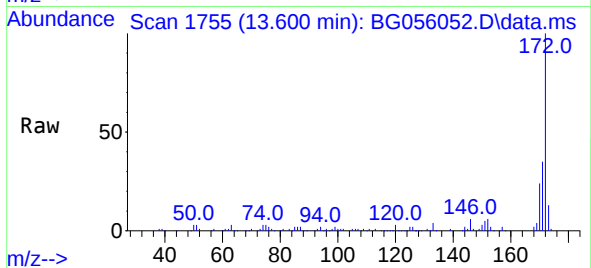
Tgt Ion:330 Resp: 81593
Ion Ratio Lower Upper
330 100
332 95.5 76.6 114.8
141 20.1 15.0 22.4





#45
2-Fluorobiphenyl
Concen: 70.324 ng
RT: 13.600 min Scan# 1757
Delta R.T. -0.000 min
Lab File: BG056052.D
Acq: 21 Dec 2022 17:23

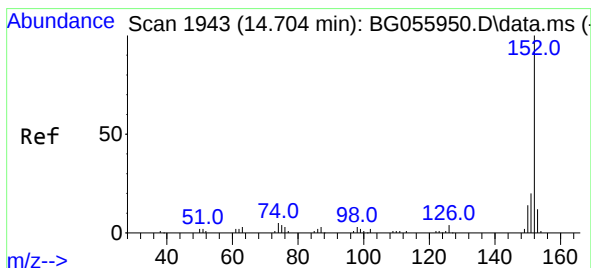
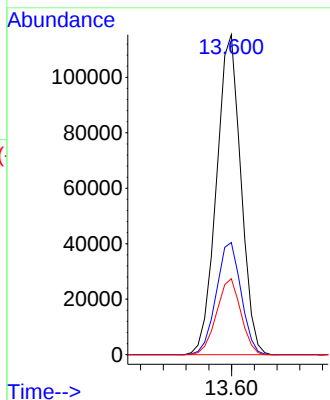
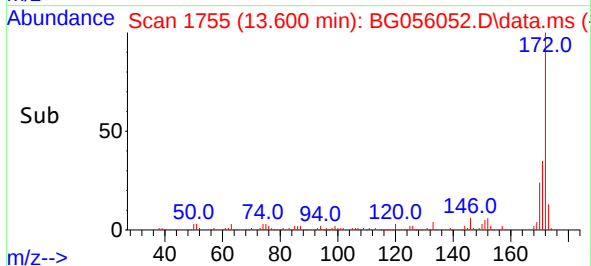
Instrument :
BNA_G
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FS-01-(0-2)



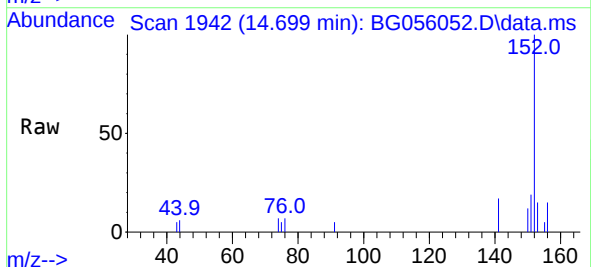
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Ion Ratio Lower Upper
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171 35.0 28.6 42.8
170 23.8 19.9 29.9

Manual Integrations
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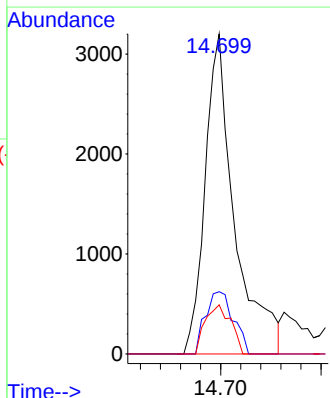
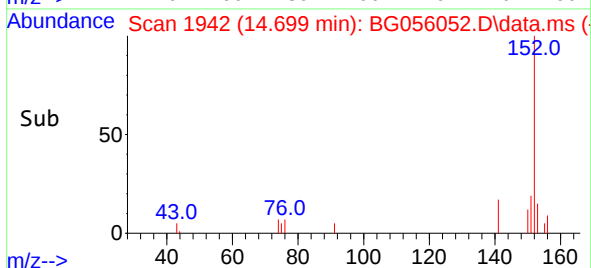
Reviewed By :Christian Giraldo 12/22/2022
Supervised By :mohammad ahmed 12/22/2022

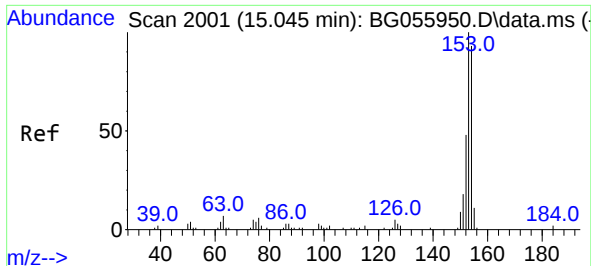


#49
Acenaphthylene
Concen: 2.161 ng
RT: 14.699 min Scan# 1942
Delta R.T. -0.000 min
Lab File: BG056052.D
Acq: 21 Dec 2022 17:23



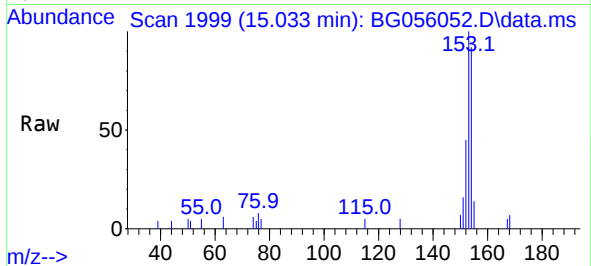
Tgt Ion:152 Resp: 6518
Ion Ratio Lower Upper
152 100
151 19.5 15.8 23.8
153 15.3 10.0 15.0#





#52
Acenaphthene
Concen: 2.587 ng
RT: 15.033 min Scan# 1999
Delta R.T. -0.006 min
Lab File: BG056052.D
Acq: 21 Dec 2022 17:23

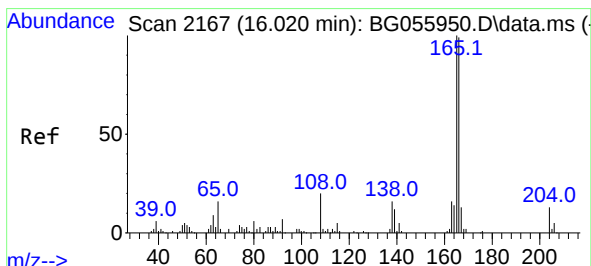
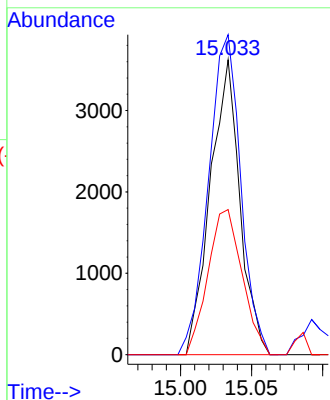
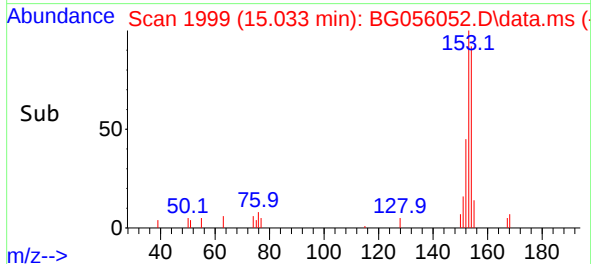
Instrument :
BNA_G
ClientSampleId :
FS-01-(0-2)



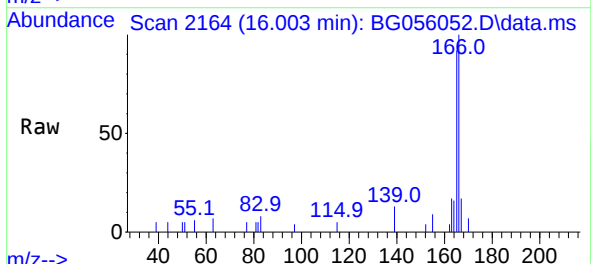
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Ion Ratio Lower Upper
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153 108.5 86.2 129.2
152 49.2 41.4 62.0

Manual Integrations
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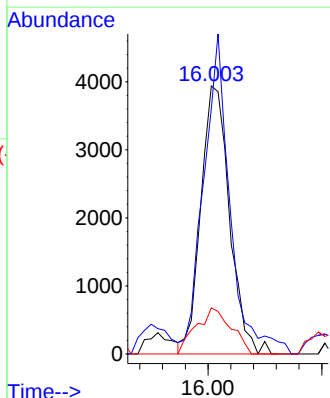
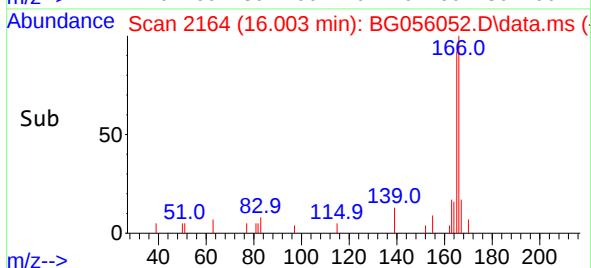
Reviewed By :Christian Giraldo 12/22/2022
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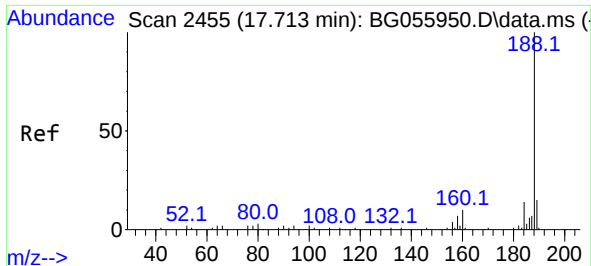


#58
Fluorene
Concen: 2.481 ng
RT: 16.003 min Scan# 2164
Delta R.T. -0.012 min
Lab File: BG056052.D
Acq: 21 Dec 2022 17:23



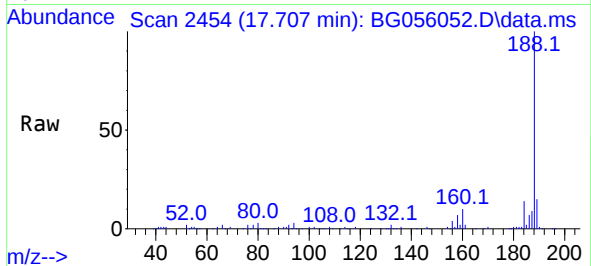
Tgt Ion:166 Resp: 6907
Ion Ratio Lower Upper
166 100
165 91.5 81.1 121.7
167 17.2 10.5 15.7#





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.707 min Scan# 2455
Delta R.T. -0.000 min
Lab File: BG056052.D
Acq: 21 Dec 2022 17:23

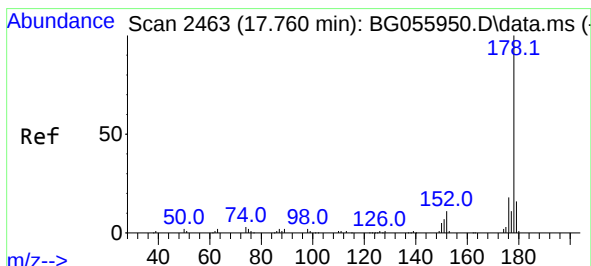
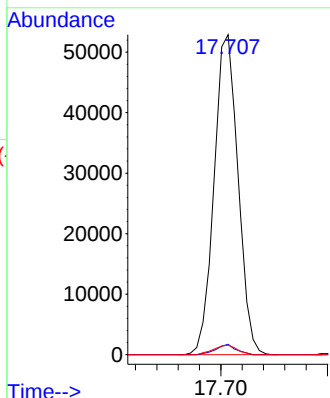
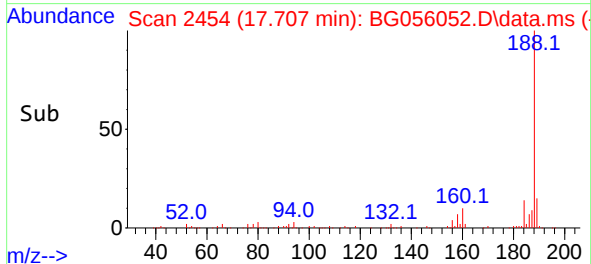
Instrument :
BNA_G
ClientSampleId :
FS-01-(0-2)



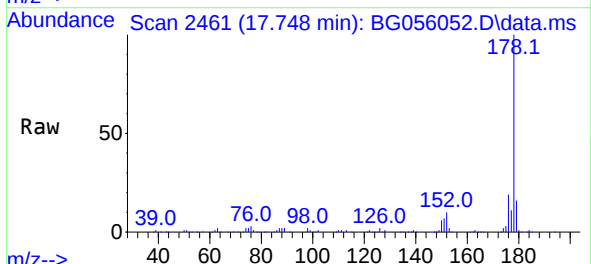
Tgt Ion:188 Resp: 82269
Ion Ratio Lower Upper
188 100
94 3.2 1.8 2.8
80 3.0 2.4 3.6

Manual Integrations
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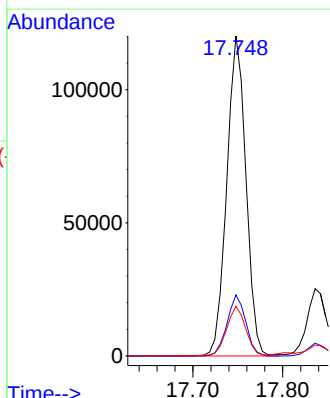
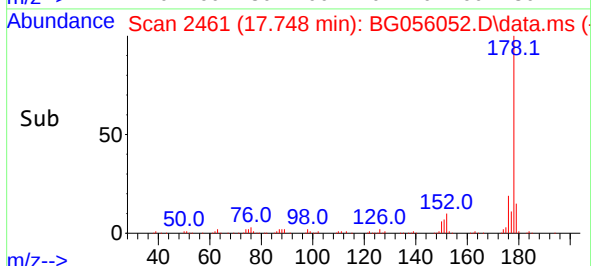
Reviewed By :Christian Giraldo 12/22/2022
Supervised By :mohammad ahmed 12/22/2022

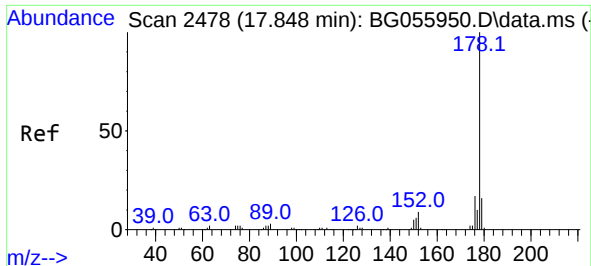


#71
Phenanthrene
Concen: 41.366 ng
RT: 17.748 min Scan# 2461
Delta R.T. -0.006 min
Lab File: BG056052.D
Acq: 21 Dec 2022 17:23



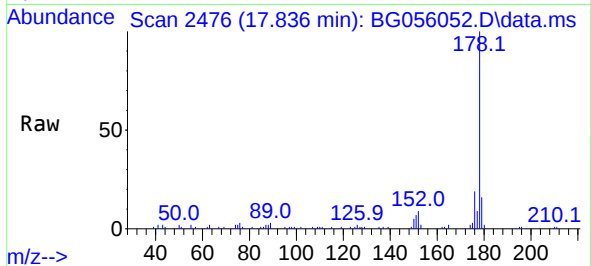
Tgt Ion:178 Resp: 178344
Ion Ratio Lower Upper
178 100
176 19.1 14.4 21.6
179 15.5 12.7 19.1





#72
 Anthracene
 Concen: 8.570 ng
 RT: 17.836 min Scan# 2478
 Delta R.T. -0.006 min
 Lab File: BG056052.D
 Acq: 21 Dec 2022 17:23

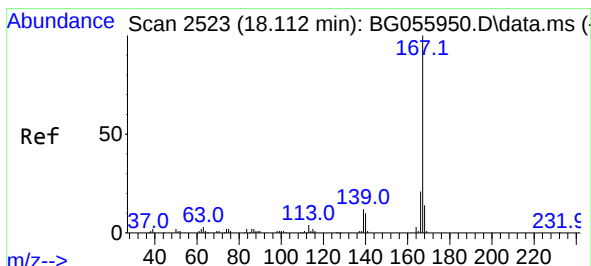
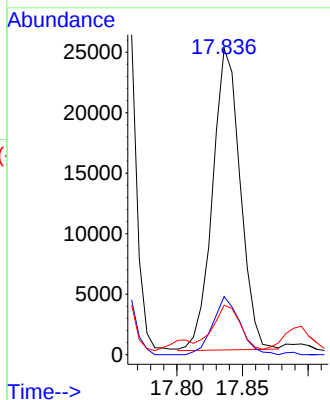
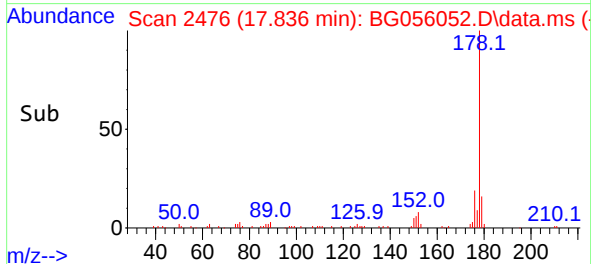
Instrument :
 BNA_G
 ClientSampleId :
 FS-01-(0-2)



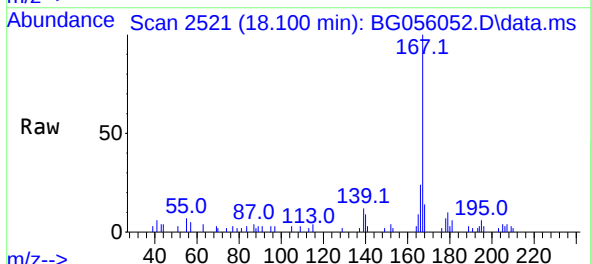
Tgt Ion:178 Resp: 3655
 Ion Ratio Lower Upper
 178 100
 176 19.0 13.9 20.9
 179 16.2 12.7 19.1

Manual Integrations
 APPROVED

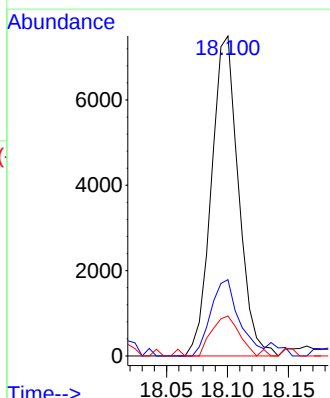
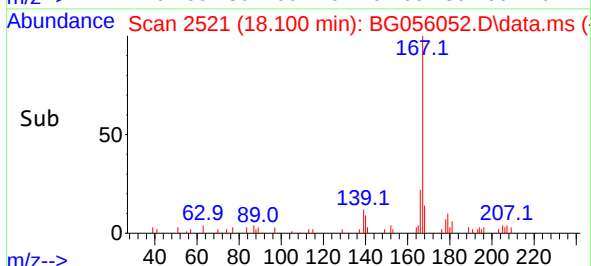
Reviewed By :Christian Giraldo 12/22/2022
 Supervised By :mohammad ahmed 12/22/2022

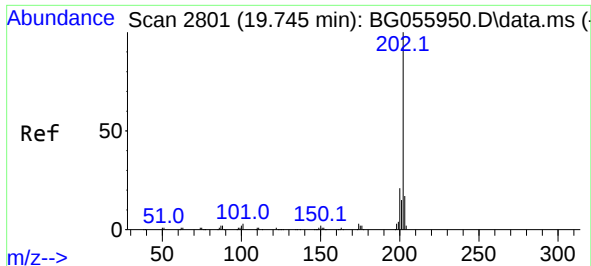


#73
 Carbazole
 Concen: 3.289 ng
 RT: 18.100 min Scan# 2521
 Delta R.T. -0.000 min
 Lab File: BG056052.D
 Acq: 21 Dec 2022 17:23



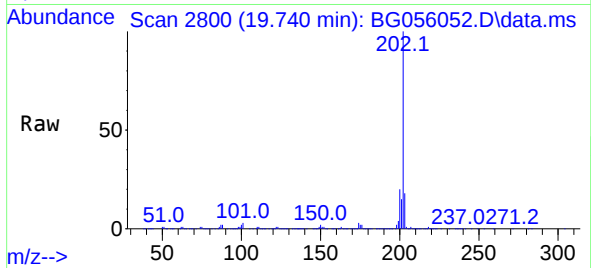
Tgt Ion:167 Resp: 11571
 Ion Ratio Lower Upper
 167 100
 166 23.9 16.6 25.0
 139 12.5 9.7 14.5





#75
Fluoranthene
Concen: 56.404 ng
RT: 19.740 min Scan# 21
Delta R.T. -0.000 min
Lab File: BG056052.D
Acq: 21 Dec 2022 17:23

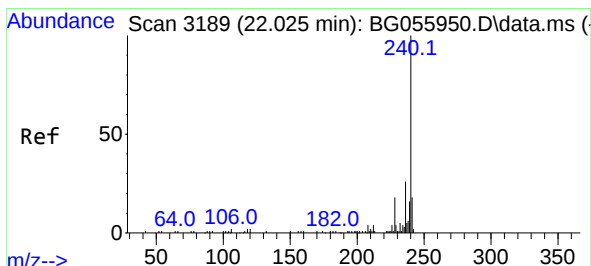
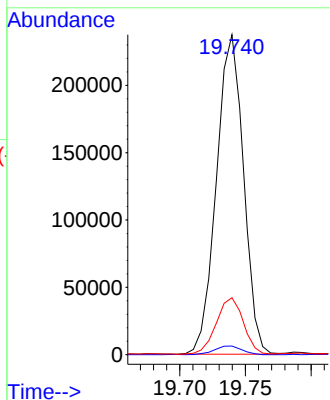
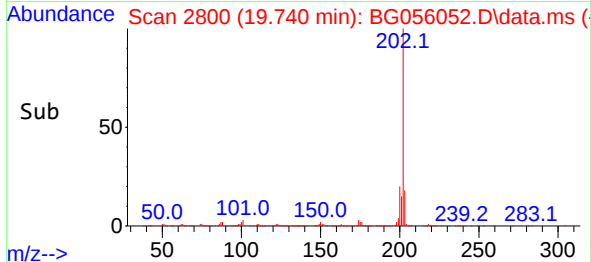
Instrument :
BNA_G
ClientSampleId :
FS-01-(0-2)



Tgt Ion:202 Resp: 34052
Ion Ratio Lower Upper
202 100
101 2.7 0.0 22.6
203 17.8 0.0 37.1

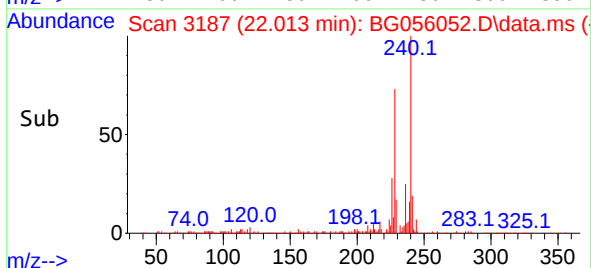
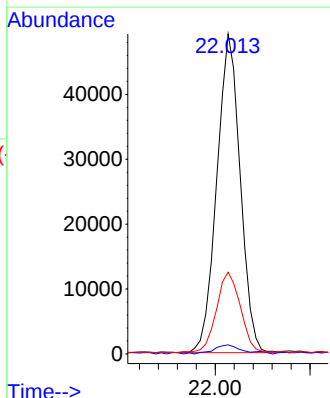
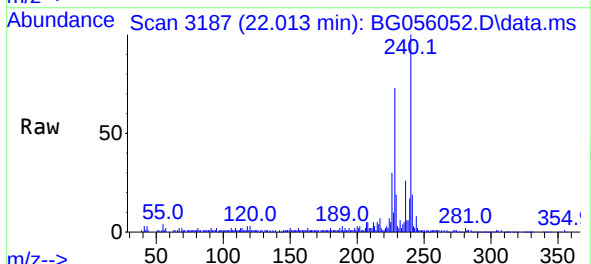
Manual Integrations
APPROVED

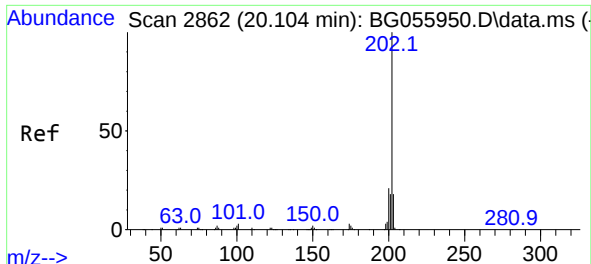
Reviewed By :Christian Giraldo 12/22/2022
Supervised By :mohammad ahmed 12/22/2022



#76
Chrysene-d12
Concen: 20.000 ng
RT: 22.013 min Scan# 3187
Delta R.T. -0.000 min
Lab File: BG056052.D
Acq: 21 Dec 2022 17:23

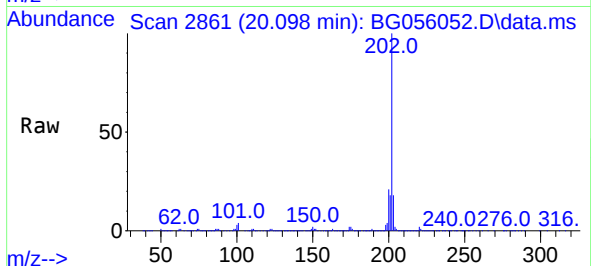
Tgt Ion:240 Resp: 84257
Ion Ratio Lower Upper
240 100
120 2.9 1.7 2.5#
236 25.5 21.1 31.7





#78
Pyrene
Concen: 81.480 ng
RT: 20.098 min Scan# 2861
Delta R.T. -0.000 min
Lab File: BG056052.D
Acq: 21 Dec 2022 17:23

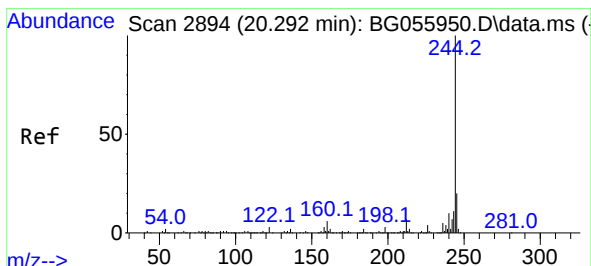
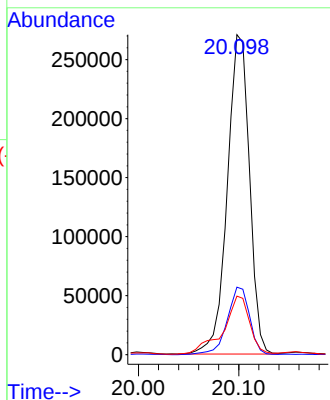
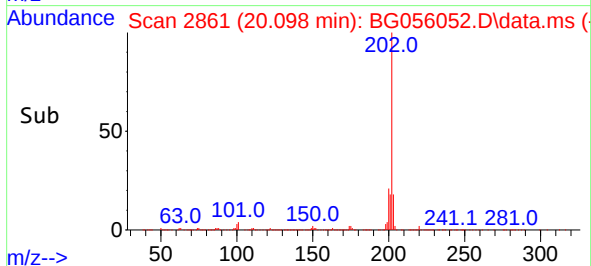
Instrument :
BNA_G
ClientSampleId :
FS-01-(0-2)



Tgt Ion:202 Resp: 41542
Ion Ratio Lower Upper
202 100
200 21.1 16.7 25.1
203 18.3 14.6 21.8

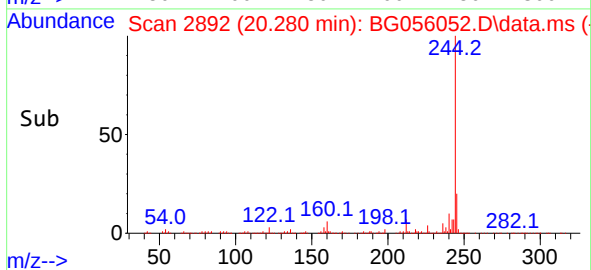
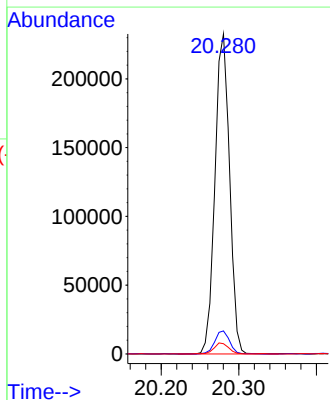
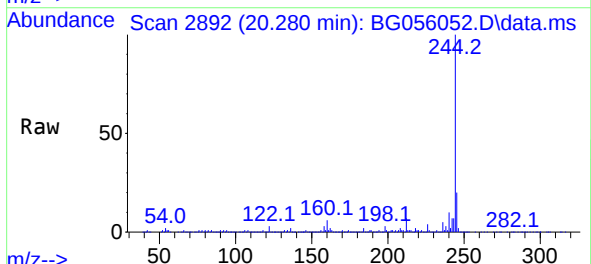
Manual Integrations
APPROVED

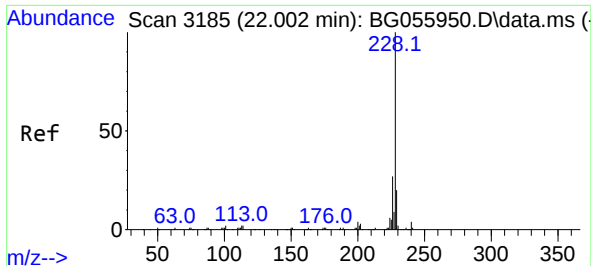
Reviewed By :Christian Giraldo 12/22/2022
Supervised By :mohammad ahmed 12/22/2022



#79
Terphenyl-d14
Concen: 63.865 ng
RT: 20.280 min Scan# 2892
Delta R.T. -0.000 min
Lab File: BG056052.D
Acq: 21 Dec 2022 17:23

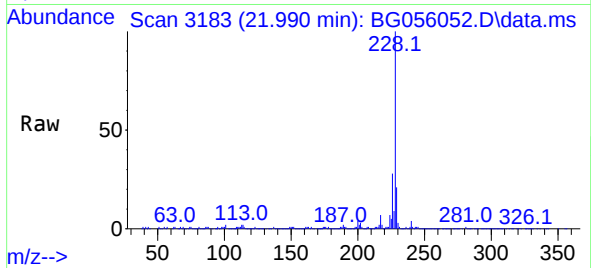
Tgt Ion:244 Resp: 304466
Ion Ratio Lower Upper
244 100
212 7.2 5.8 8.6
122 3.2 2.5 3.7





#81
Benzo(a)anthracene
Concen: 46.251 ng
RT: 21.990 min Scan# 3183
Delta R.T. -0.006 min
Lab File: BG056052.D
Acq: 21 Dec 2022 17:23

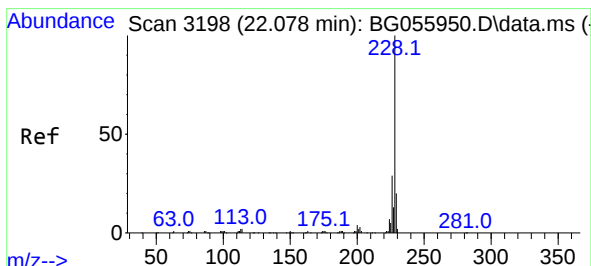
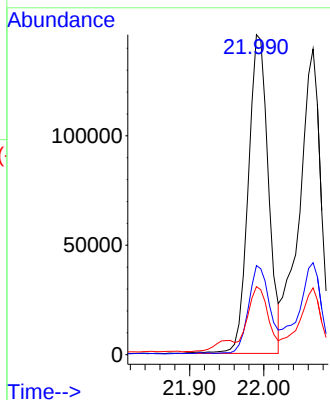
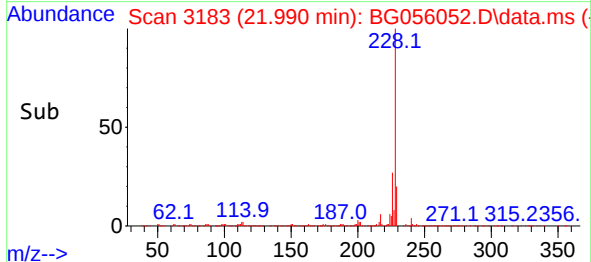
Instrument :
BNA_G
ClientSampleId :
FS-01-(0-2)



Tgt Ion:228 Resp: 27422
Ion Ratio Lower Upper
228 100
226 27.8 21.8 32.6
229 21.2 15.9 23.9

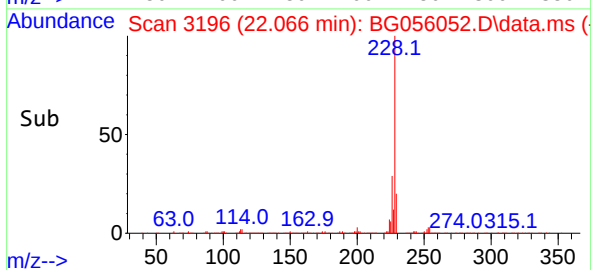
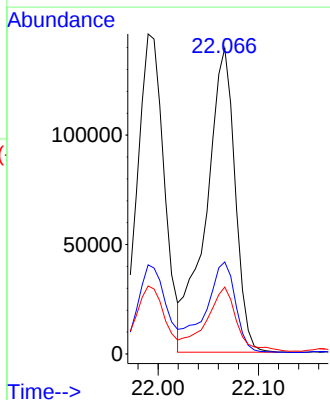
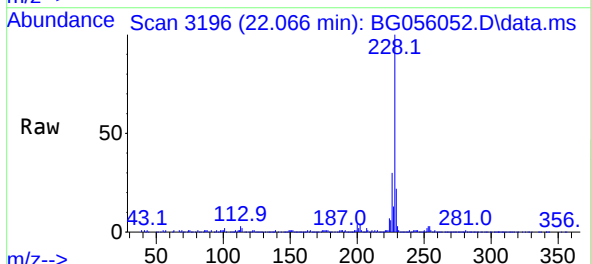
Manual Integrations
APPROVED

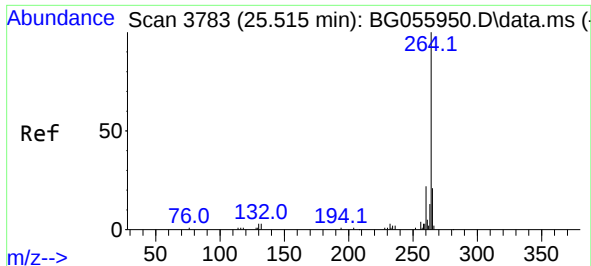
Reviewed By :Christian Giraldo 12/22/2022
Supervised By :mohammad ahmed 12/22/2022



#83
Chrysene
Concen: 50.264 ng m
RT: 22.066 min Scan# 3196
Delta R.T. -0.000 min
Lab File: BG056052.D
Acq: 21 Dec 2022 17:23

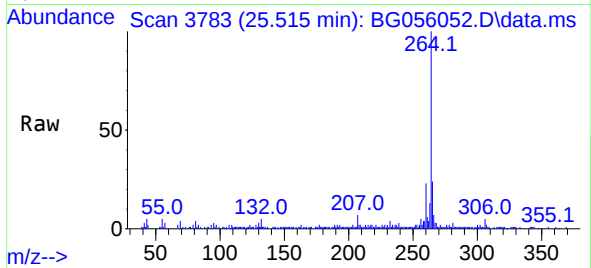
Tgt Ion:228 Resp: 279303
Ion Ratio Lower Upper
228 100
226 30.1 23.1 34.7
229 21.9 15.7 23.5





#86
Perylene-d12
Concen: 20.000 ng
RT: 25.515 min Scan# 31
Delta R.T. 0.018 min
Lab File: BG056052.D
Acq: 21 Dec 2022 17:23

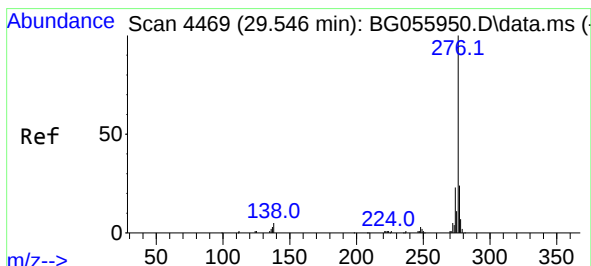
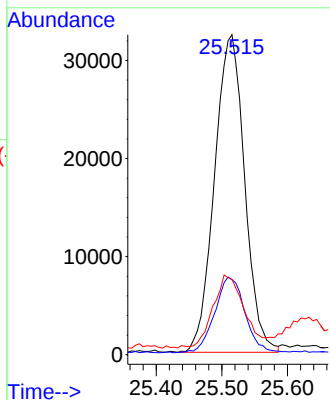
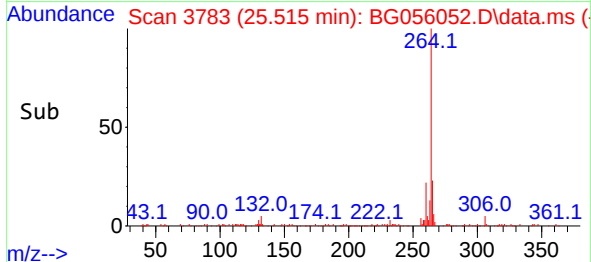
Instrument :
BNA_G
ClientSampleId :
FS-01-(0-2)



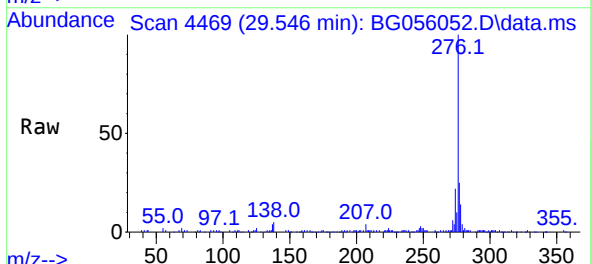
Tgt Ion:264 Resp: 10327
Ion Ratio Lower Upper
264 100
260 23.5 17.8 26.8
265 23.6 16.6 25.0

Manual Integrations
APPROVED

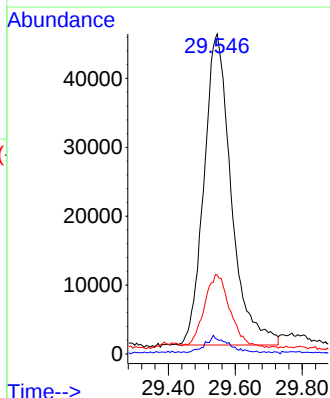
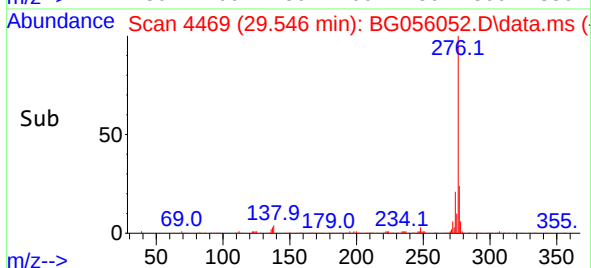
Reviewed By :Christian Giraldo 12/22/2022
Supervised By :mohammad ahmed 12/22/2022

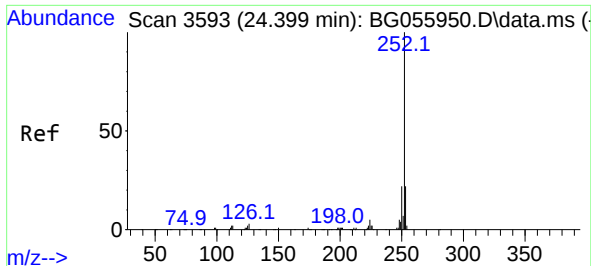


#87
Indeno(1,2,3-cd)pyrene
Concen: 30.781 ng
RT: 29.546 min Scan# 4469
Delta R.T. 0.023 min
Lab File: BG056052.D
Acq: 21 Dec 2022 17:23



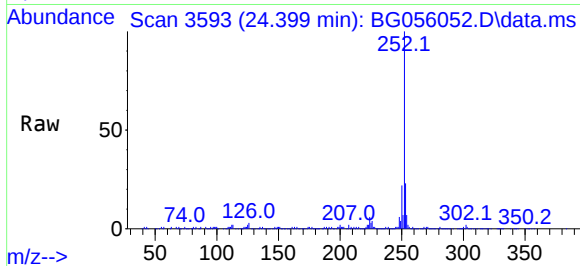
Tgt Ion:276 Resp: 255637
Ion Ratio Lower Upper
276 100
138 4.0 3.0 4.4
277 22.2 20.4 30.6





#88
Benzo(b)fluoranthene
Concen: 67.531 ng m
RT: 24.399 min Scan# 3593
Delta R.T. 0.012 min
Lab File: BG056052.D
Acq: 21 Dec 2022 17:23

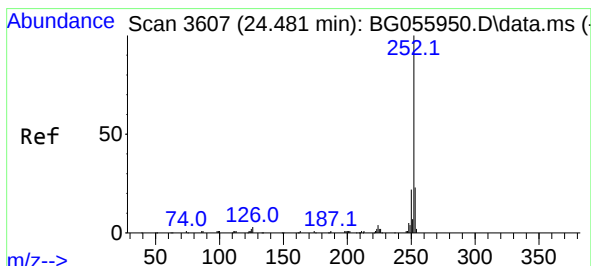
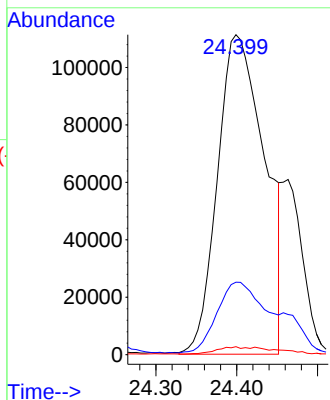
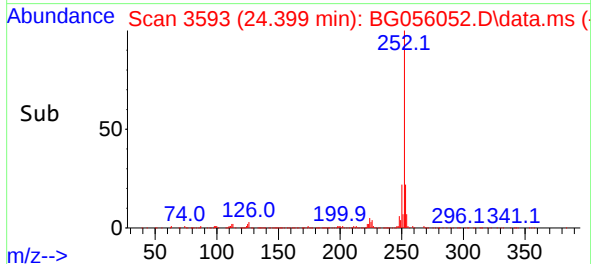
Instrument :
BNA_G
ClientSampleId :
FS-01-(0-2)



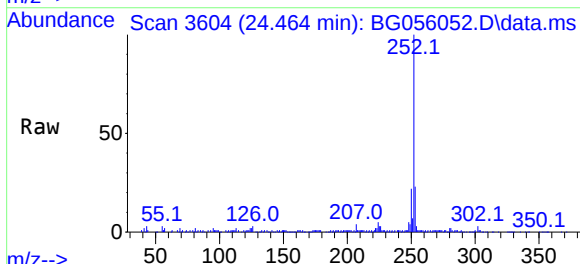
Tgt Ion:252 Resp: 45137
Ion Ratio Lower Upper
252 100
253 22.7 17.4 26.0
125 2.5 1.8 2.8

Manual Integrations
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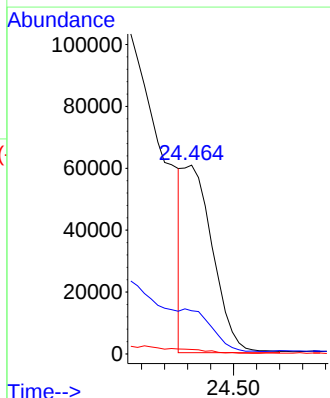
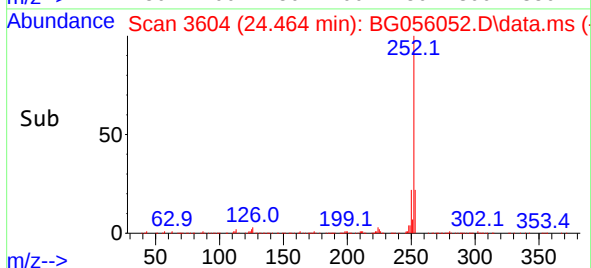
Reviewed By :Christian Giraldo 12/22/2022
Supervised By :mohammad ahmed 12/22/2022

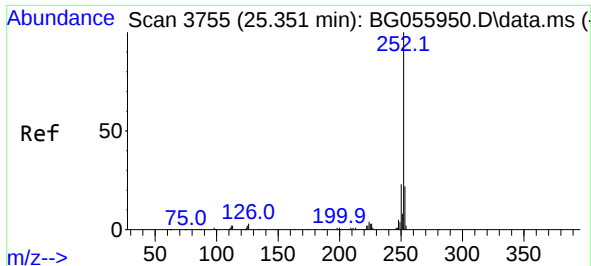


#89
Benzo(k)fluoranthene
Concen: 16.395 ng m
RT: 24.464 min Scan# 3604
Delta R.T. -0.000 min
Lab File: BG056052.D
Acq: 21 Dec 2022 17:23



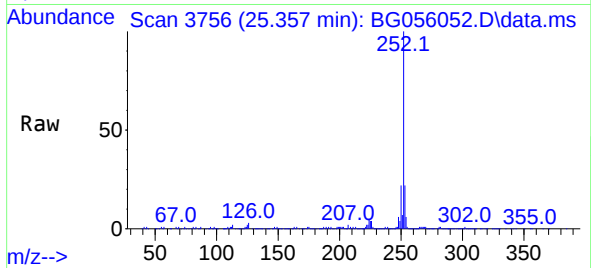
Tgt Ion:252 Resp: 109333
Ion Ratio Lower Upper
252 100
253 22.9 18.2 27.2
125 2.4 2.0 3.0





#90
Benzo(a)pyrene
Concen: 67.691 ng
RT: 25.357 min Scan# 31
Delta R.T. 0.023 min
Lab File: BG056052.D
Acq: 21 Dec 2022 17:23

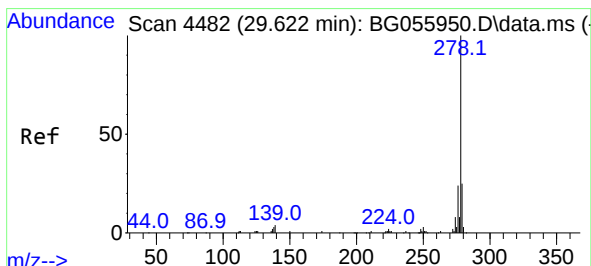
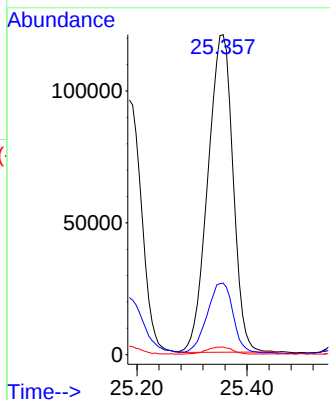
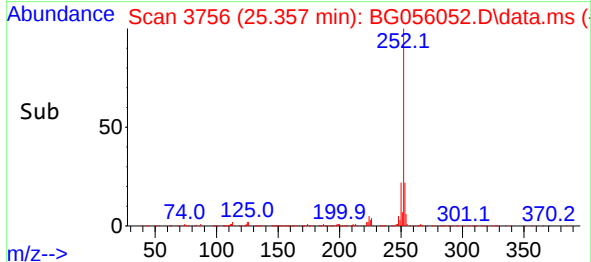
Instrument :
BNA_G
ClientSampleId :
FS-01-(0-2)



Tgt Ion:252 Resp: 382439
Ion Ratio Lower Upper
252 100
253 22.4 17.7 26.5
125 2.4 1.9 2.9

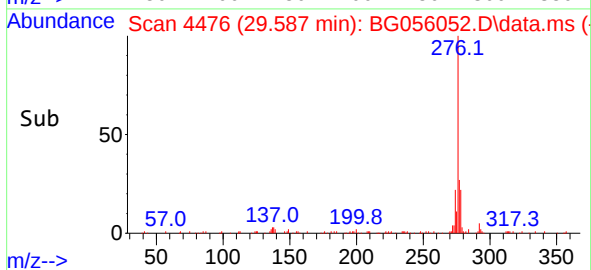
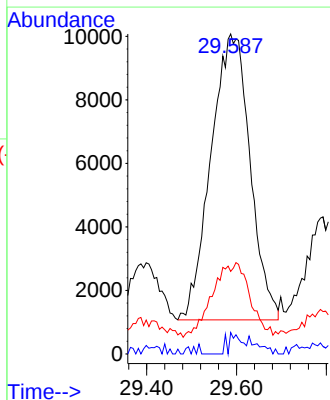
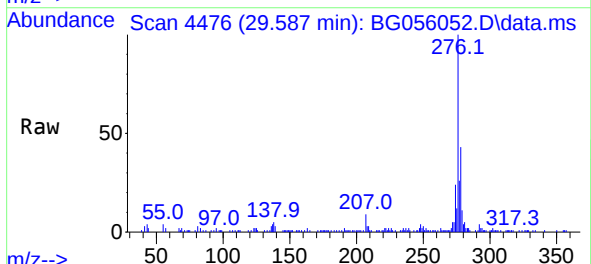
Manual Integrations
APPROVED

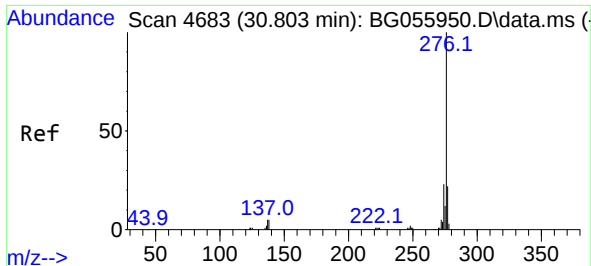
Reviewed By :Christian Giraldo 12/22/2022
Supervised By :mohammad ahmed 12/22/2022



#91
Dibenzo(a,h)anthracene
Concen: 7.848 ng
RT: 29.587 min Scan# 4476
Delta R.T. -0.006 min
Lab File: BG056052.D
Acq: 21 Dec 2022 17:23

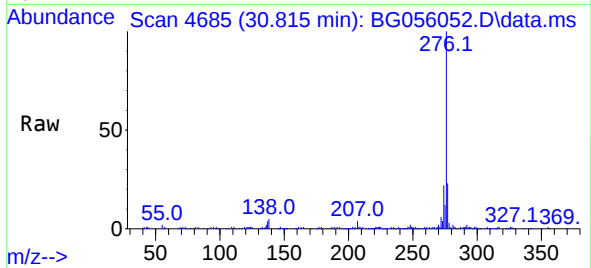
Tgt Ion:278 Resp: 54555
Ion Ratio Lower Upper
278 100
139 6.7 2.9 4.3#
279 25.8 20.0 30.0





#92
Benzo(g,h,i)perylene
Concen: 48.364 ng
RT: 30.815 min Scan# 40
Delta R.T. 0.023 min
Lab File: BG056052.D
Acq: 21 Dec 2022 17:23

Instrument :
BNA_G
ClientSampleId :
FS-01-(0-2)



Tgt Ion:276 Resp: 32504
Ion Ratio Lower Upper
276 100
277 23.4 17.8 26.6
138 5.2 3.8 5.6

Manual Integrations
APPROVED

Reviewed By :Christian Giraldo 12/22/2022
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