

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG121522\
 Data File : BG055989.D
 Acq On : 15 Dec 2022 23:18
 Operator : CG/JU
 Sample : N6037-07 5X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 RB-21-(6-8)

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 12/16/2022
 Supervised By :mohammad ahmed 12/17/2022

Quant Time: Dec 16 04:08:42 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 14 02:24:06 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.387	152	10549	20.000	ng	0.01
21) Naphthalene-d8	11.219	136	38094	20.000	ng	# 0.01
39) Acenaphthene-d10	14.991	164	29622	20.000	ng	0.01
64) Phenanthrene-d10	17.729	188	68019	20.000	ng	# 0.02
76) Chrysene-d12	22.048	240	68019	20.000	ng	# 0.02
86) Perylene-d12	25.561	264	50444	20.000	ng	# 0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.896	112	10303	22.905	ng	0.01
7) Phenol-d6	7.506	99	12927	22.345	ng	0.01
23) Nitrobenzene-d5	9.550	82	8518	15.626	ng	0.00
42) 2,4,6-Tribromophenol	16.466	330	14193	19.870	ng	0.01
45) 2-Fluorobiphenyl	13.616	172	33318	15.775	ng	0.00
79) Terphenyl-d14	20.303	244	60812	15.801	ng	0.01
Target Compounds						Qvalue
31) Naphthalene	11.266	128	36222	18.021	ng	98
37) 2-Methylnaphthalene	12.847	142	75899	42.740	ng	98
38) 1-Methylnaphthalene	13.058	142	54981	31.781	ng	99
46) 1,1'-Biphenyl	13.828	154	18844	9.385	ng	100
52) Acenaphthene	15.056	154	55126	31.532	ng	88
55) Dibenzofuran	15.379	168	24258	8.251	ng	# 92
58) Fluorene	16.031	166	61432	25.563	ng	95
71) Phenanthrene	17.788	178	1334594	374.407	ng	98
72) Anthracene	17.864	178	169488	48.061	ng	98
73) Carbazole	18.123	167	11320	3.892	ng	# 92
75) Fluoranthene	19.768	202	544027	108.992	ng	99
78) Pyrene	20.132	202	820684	199.395	ng	99
81) Benzo(a)anthracene	22.030	228	334245	69.833	ng	100
83) Chrysene	22.100	228	336019	74.907	ng	98
87) Indeno(1,2,3-cd)pyrene	29.598	276	31744m	7.826	ng	
88) Benzo(b)fluoranthene	24.439	252	142937	43.783	ng	# 98
89) Benzo(k)fluoranthene	24.504	252	90410m	27.757	ng	
90) Benzo(a)pyrene	25.391	252	110474	40.033	ng	97
91) Dibenzo(a,h)anthracene	29.668	278	11005m	3.241	ng	
92) Benzo(g,h,i)perylene	30.855	276	24189m	7.369	ng	

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

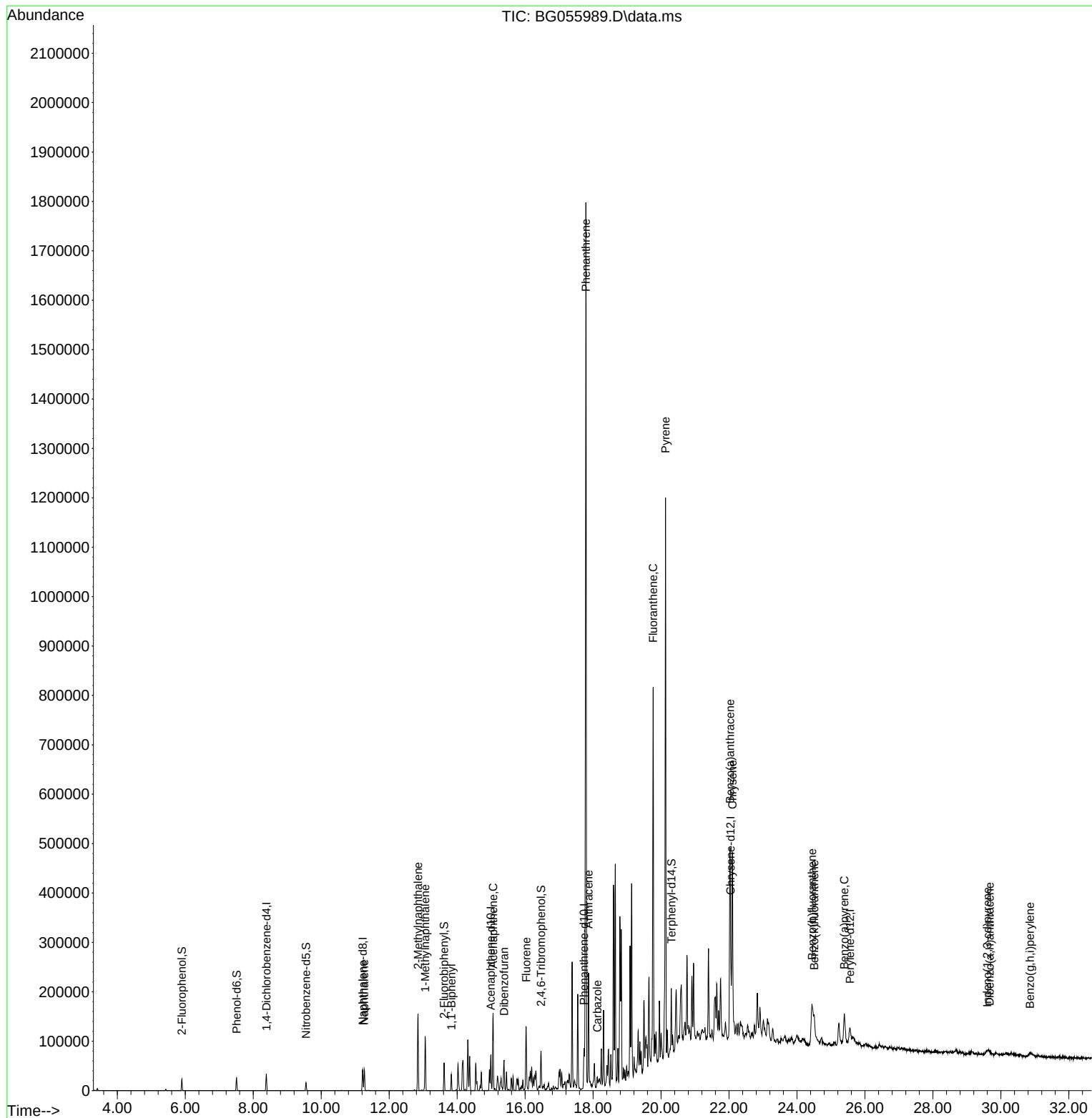
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG121522\
Data File : BG055989.D
Acq On : 15 Dec 2022 23:18
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ALS Vial : 17 Sample Multiplier: 1

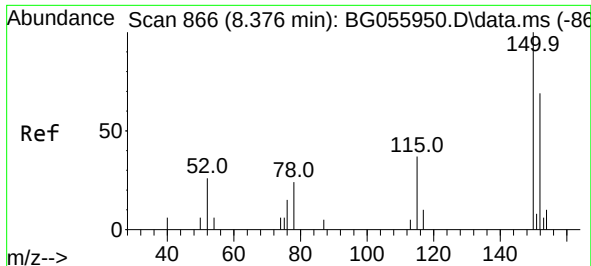
Instrument :
BNA_G
ClientSampleId :
RB-21-(6-8)

Quant Time: Dec 16 04:08:42 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 14 02:24:06 2022
Response via : Initial Calibration

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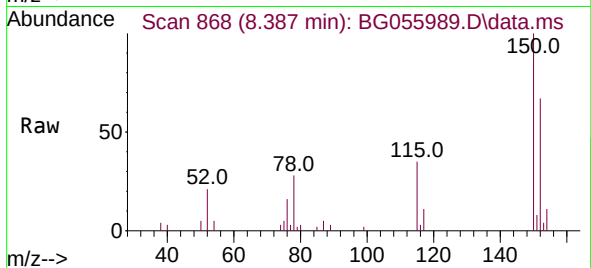
Reviewed By :Jagrut Upadhyay 12/16/2022
Supervised By :mohammad ahmed 12/17/2022





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.387 min Scan# 866
Delta R.T. 0.011 min
Lab File: BG055989.D
Acq: 15 Dec 2022 23:18

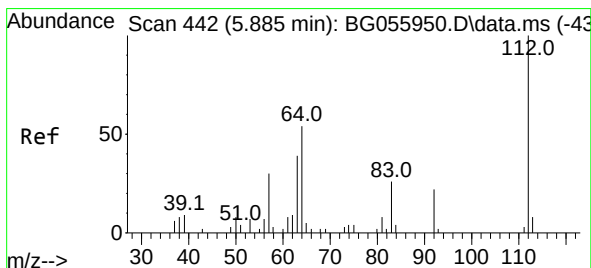
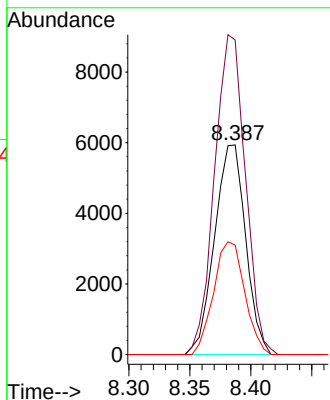
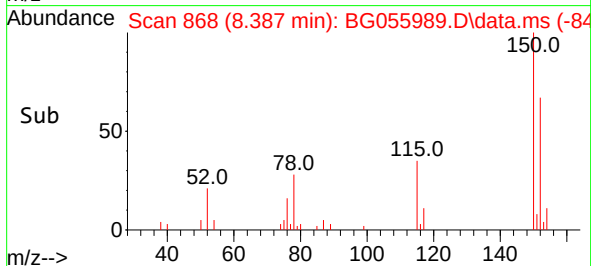
Instrument :
BNA_G
ClientSampleId :
RB-21-(6-8)



Tgt Ion:152 Resp: 10549
Ion Ratio Lower Upper
152 100
150 150.1 115.7 173.5
115 52.2 43.0 64.4

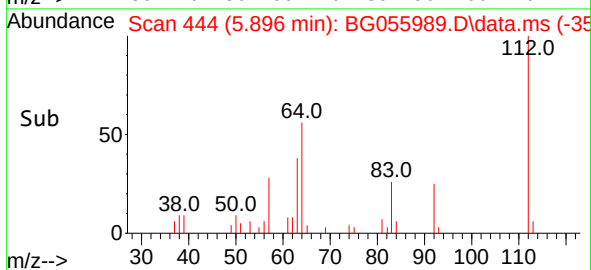
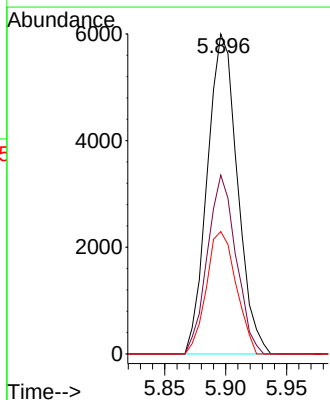
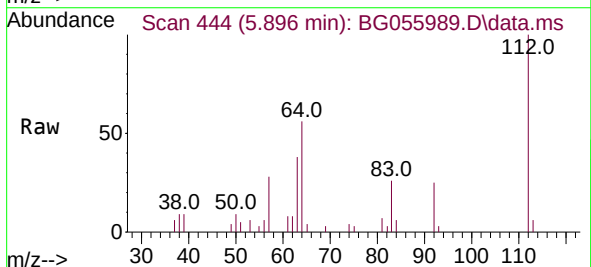
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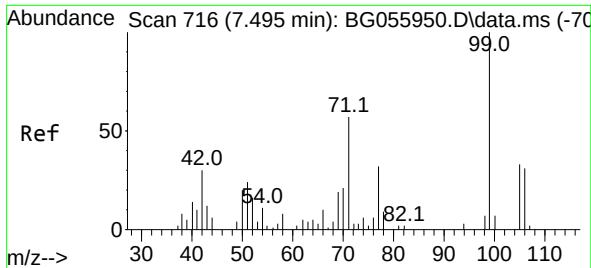
Reviewed By :Jagrut Upadhyay 12/16/2022
Supervised By :mohammad ahmed 12/17/2022



#5
2-Fluorophenol
Concen: 22.905 ng
RT: 5.896 min Scan# 444
Delta R.T. 0.011 min
Lab File: BG055989.D
Acq: 15 Dec 2022 23:18

Tgt Ion:112 Resp: 10303
Ion Ratio Lower Upper
112 100
64 55.9 43.0 64.4
63 38.2 31.4 47.2





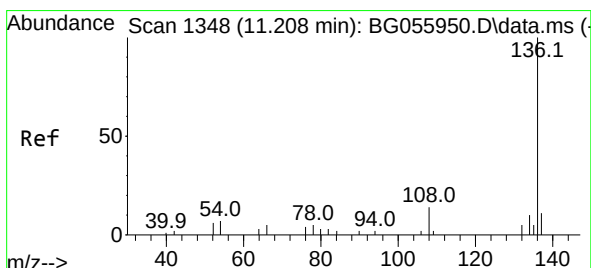
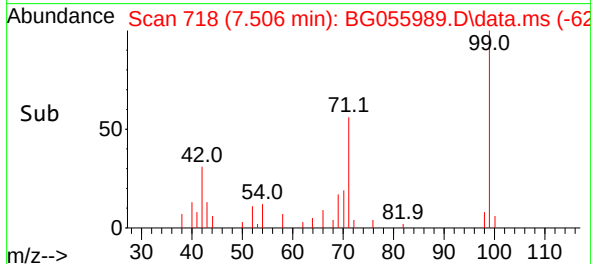
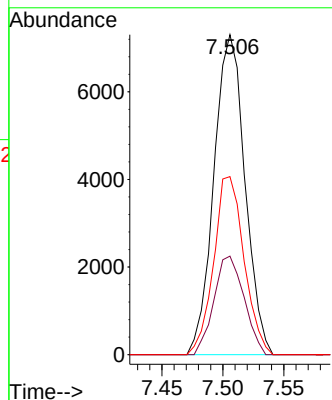
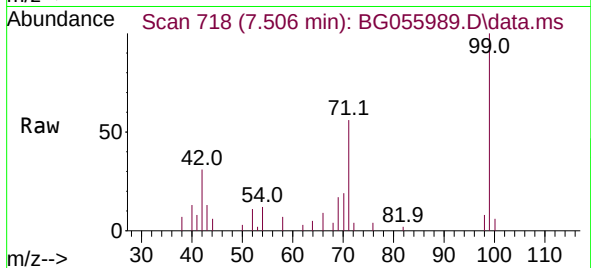
#7
Phenol-d6
Concen: 22.345 ng
RT: 7.506 min Scan# 716
Delta R.T. 0.011 min
Lab File: BG055989.D
Acq: 15 Dec 2022 23:18

Instrument :
BNA_G
ClientSampleId :
RB-21-(6-8)

Tgt Ion: 99 Resp: 12927
Ion Ratio Lower Upper
99 100
42 30.8 24.3 36.5
71 55.6 45.6 68.4

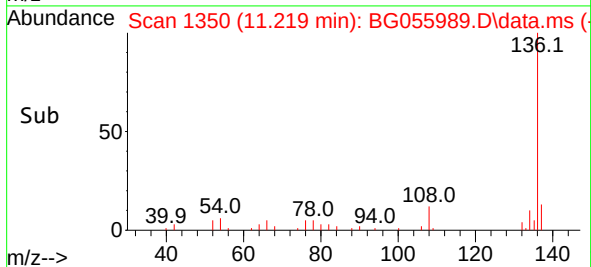
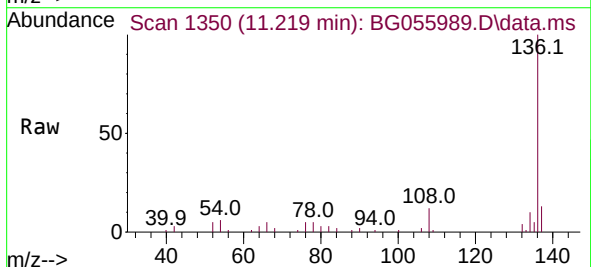
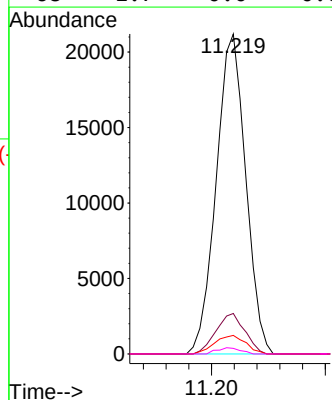
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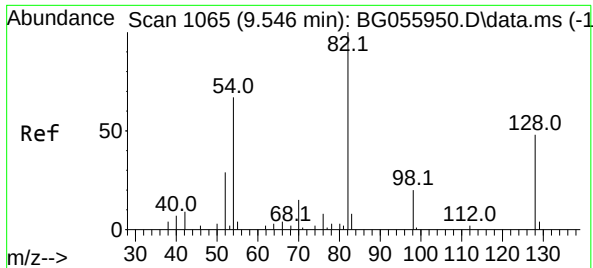
Reviewed By :Jagrut Upadhyay 12/16/2022
Supervised By :mohammad ahmed 12/17/2022



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.219 min Scan# 1350
Delta R.T. 0.011 min
Lab File: BG055989.D
Acq: 15 Dec 2022 23:18

Tgt Ion:136 Resp: 38094
Ion Ratio Lower Upper
136 100
137 12.6 9.2 13.8
54 5.8 5.6 8.4
68 1.7 0.0 0.0#





#23
Nitrobenzene-d5
Concen: 15.626 ng
RT: 9.550 min Scan# 1066
Delta R.T. 0.005 min
Lab File: BG055989.D
Acq: 15 Dec 2022 23:18

Instrument :

BNA_G

ClientSampleId :

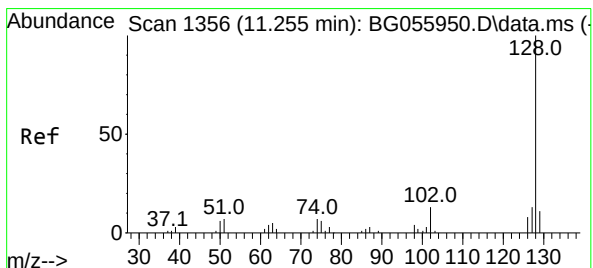
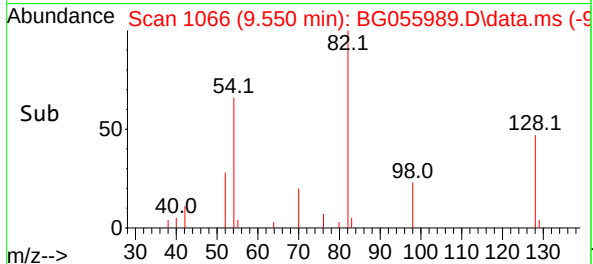
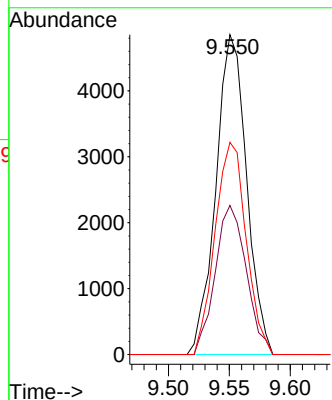
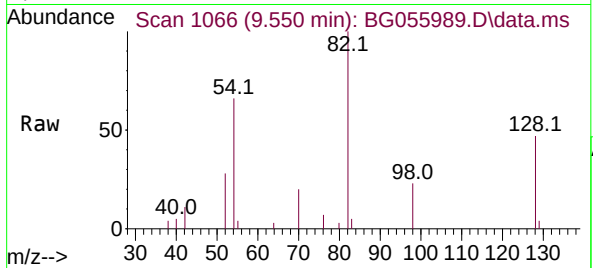
RB-21-(6-8)

Tgt Ion: 82 Resp: 8518
Ion Ratio Lower Upper
82 100
128 46.6 38.4 57.6
54 66.3 53.3 79.9

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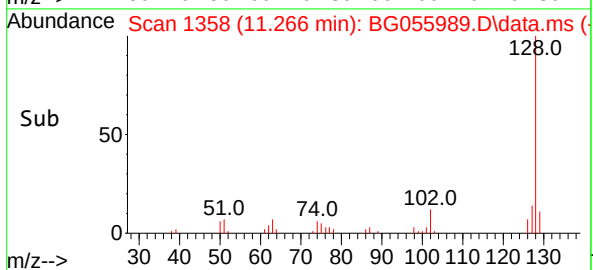
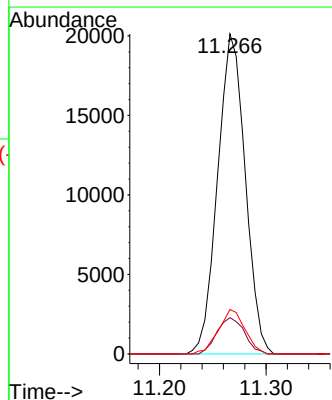
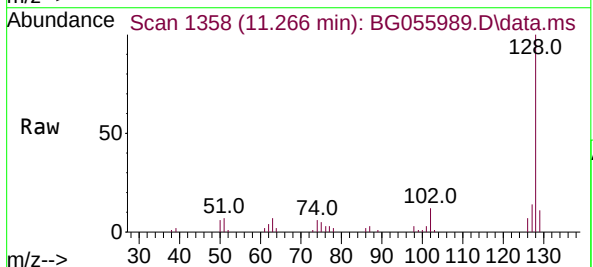
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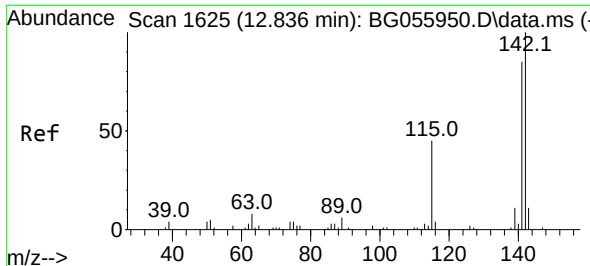
Reviewed By :Jagrut Upadhyay 12/16/2022
Supervised By :mohammad ahmed 12/17/2022



#31
Naphthalene
Concen: 18.021 ng
RT: 11.266 min Scan# 1358
Delta R.T. 0.011 min
Lab File: BG055989.D
Acq: 15 Dec 2022 23:18

Tgt Ion:128 Resp: 36222
Ion Ratio Lower Upper
128 100
129 11.3 8.7 13.1
127 13.9 10.3 15.5





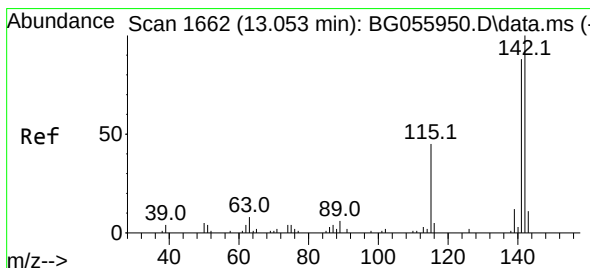
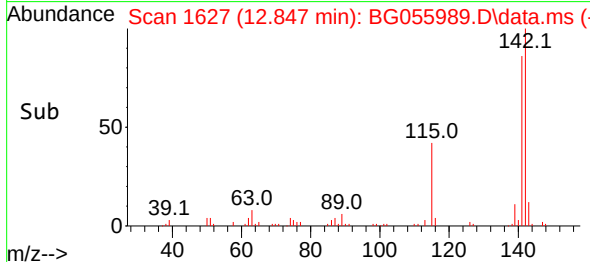
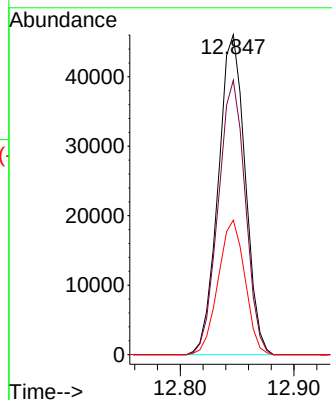
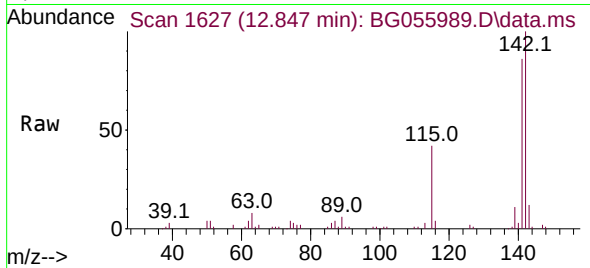
#37
2-Methylnaphthalene
Concen: 42.740 ng
RT: 12.847 min Scan# 1627
Delta R.T. 0.011 min
Lab File: BG055989.D
Acq: 15 Dec 2022 23:18

Instrument :
BNA_G
ClientSampleId :
RB-21-(6-8)

Tgt Ion:142 Resp: 75899
Ion Ratio Lower Upper
142 100
141 85.7 67.8 101.6
115 42.0 35.7 53.5

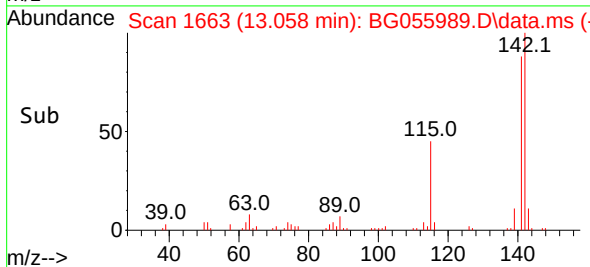
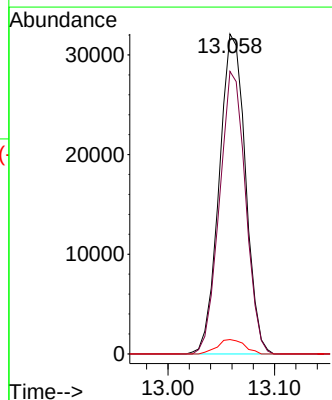
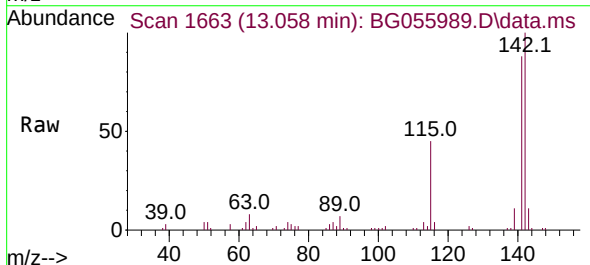
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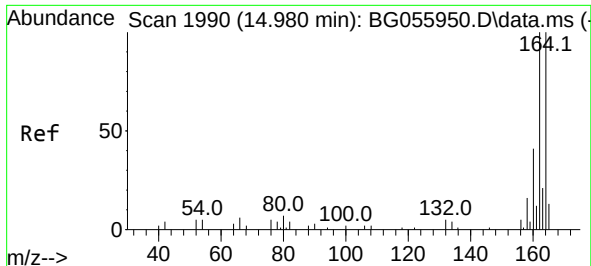
Reviewed By :Jagrut Upadhyay 12/16/2022
Supervised By :mohammad ahmed 12/17/2022



#38
1-Methylnaphthalene
Concen: 31.781 ng
RT: 13.058 min Scan# 1663
Delta R.T. 0.005 min
Lab File: BG055989.D
Acq: 15 Dec 2022 23:18

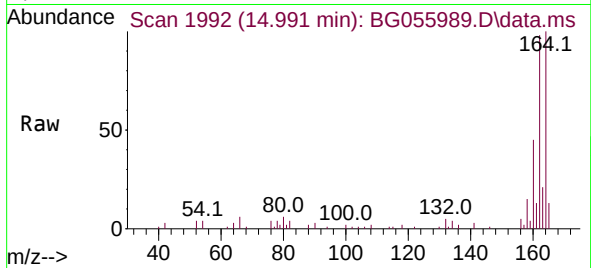
Tgt Ion:142 Resp: 54981
Ion Ratio Lower Upper
142 100
141 88.3 70.2 105.2
116 4.5 3.8 5.8





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.991 min Scan# 1992
Delta R.T. 0.011 min
Lab File: BG055989.D
Acq: 15 Dec 2022 23:18

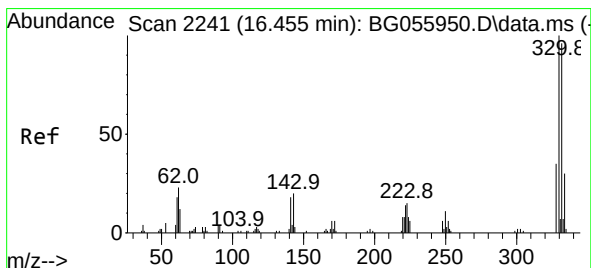
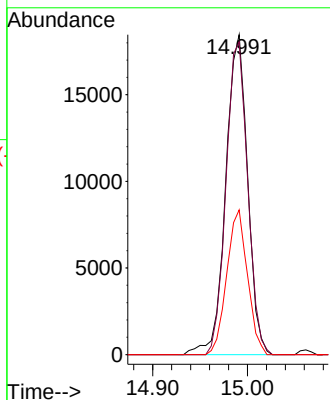
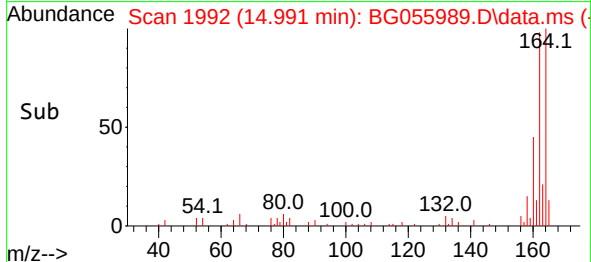
Instrument :
BNA_G
ClientSampleId :
RB-21-(6-8)



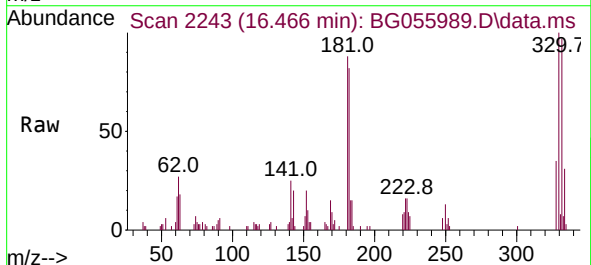
Tgt Ion:164 Resp: 2962
Ion Ratio Lower Upper
164 100
162 97.7 79.8 119.8
160 45.2 33.0 49.4

Manual Integrations
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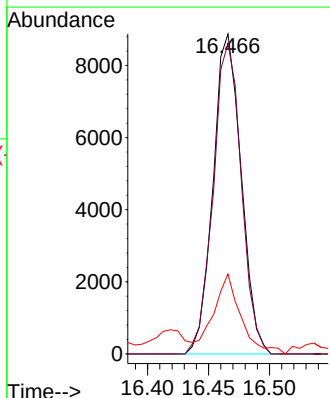
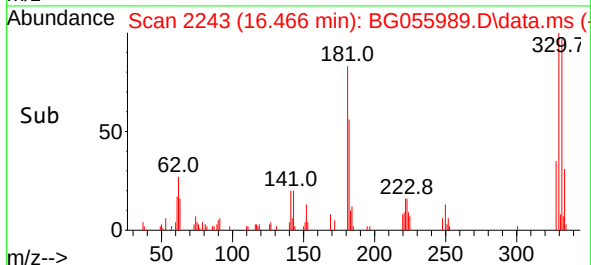
Reviewed By :Jagrut Upadhyay 12/16/2022
Supervised By :mohammad ahmed 12/17/2022

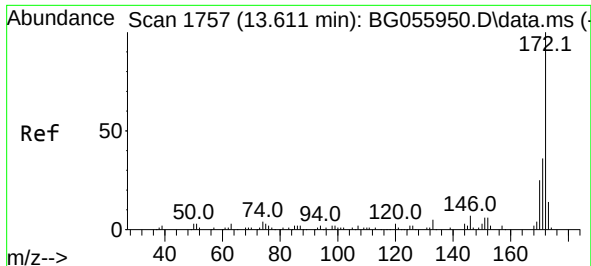


#42
2,4,6-Tribromophenol
Concen: 19.870 ng
RT: 16.466 min Scan# 2243
Delta R.T. 0.011 min
Lab File: BG055989.D
Acq: 15 Dec 2022 23:18



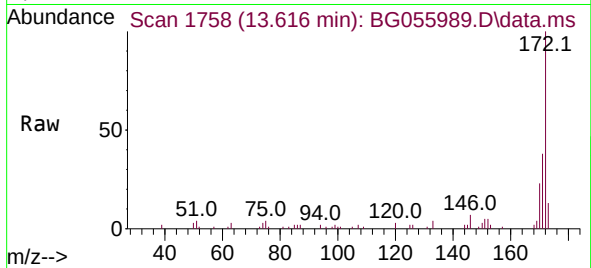
Tgt Ion:330 Resp: 14193
Ion Ratio Lower Upper
330 100
332 97.4 76.6 114.8
141 24.4 15.0 22.4#





#45
2-Fluorobiphenyl
Concen: 15.775 ng
RT: 13.616 min Scan# 1757
Delta R.T. 0.005 min
Lab File: BG055989.D
Acq: 15 Dec 2022 23:18

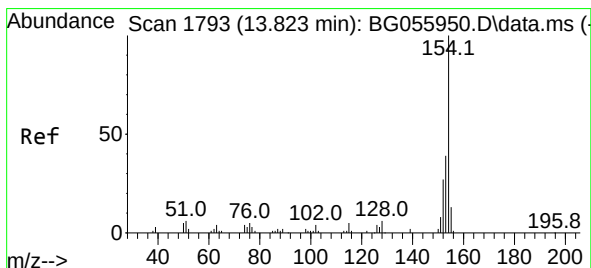
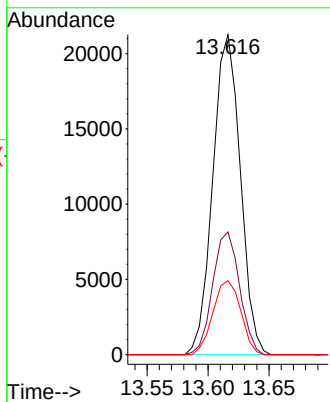
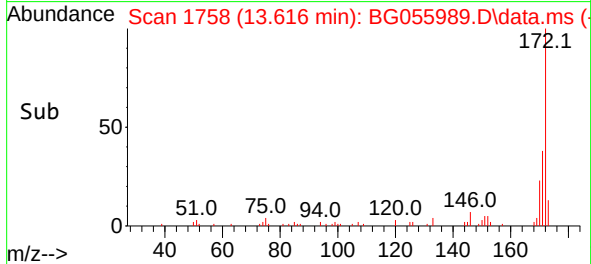
Instrument :
BNA_G
ClientSampleId :
RB-21-(6-8)



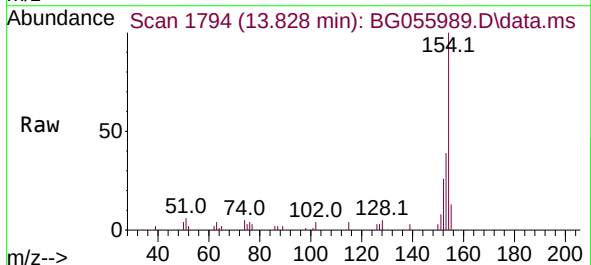
Tgt Ion:172 Resp: 33318
Ion Ratio Lower Upper
172 100
171 38.3 28.6 42.8
170 23.1 19.9 29.9

Manual Integrations
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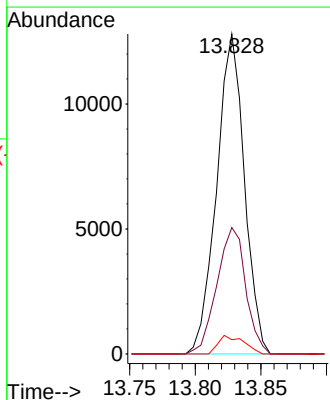
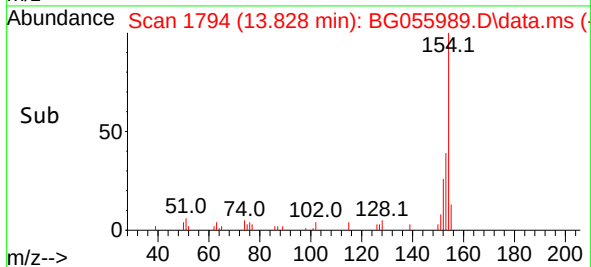
Reviewed By :Jagrut Upadhyay 12/16/2022
Supervised By :mohammad ahmed 12/17/2022

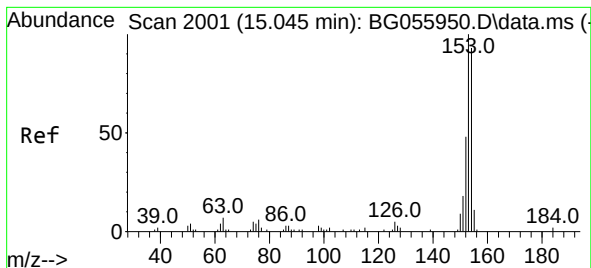


#46
1,1'-Biphenyl
Concen: 9.385 ng
RT: 13.828 min Scan# 1794
Delta R.T. 0.005 min
Lab File: BG055989.D
Acq: 15 Dec 2022 23:18



Tgt Ion:154 Resp: 18844
Ion Ratio Lower Upper
154 100
153 39.5 19.5 59.5
76 4.4 0.0 25.5





#52

Acenaphthene

Concen: 31.532 ng

RT: 15.056 min Scan# 2003

Delta R.T. 0.011 min

Lab File: BG055989.D

Acq: 15 Dec 2022 23:18

Instrument :

BNA_G

ClientSampleId :

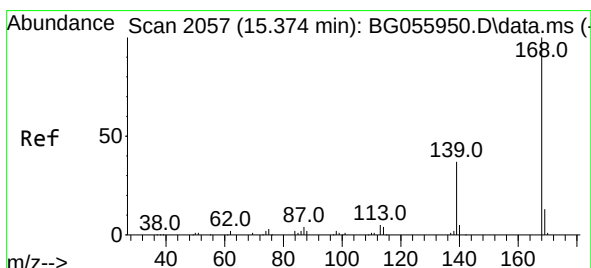
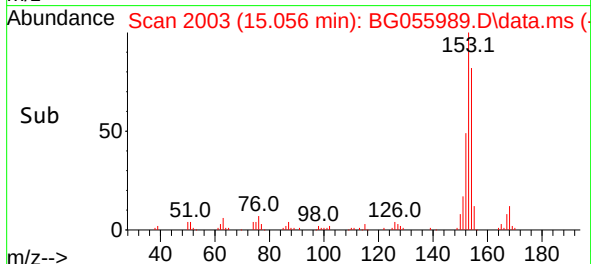
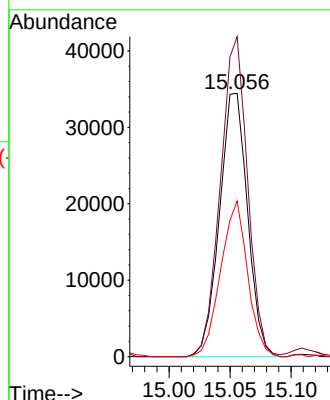
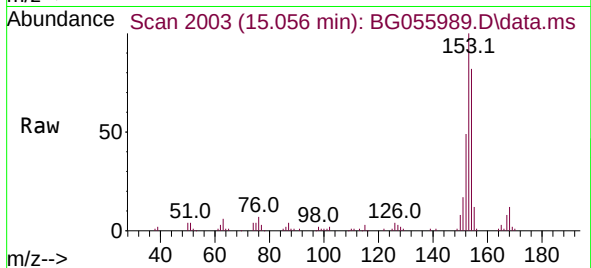
RB-21-(6-8)

Tgt Ion:154	Resp:	55126
Ion Ratio	Lower	Upper
154	100	
153	121.5	86.2 129.2
152	59.1	41.4 62.0

Manual Integrations

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Reviewed By :Jagrut Upadhyay 12/16/2022
Supervised By :mohammad ahmed 12/17/2022



#55

Dibenzofuran

Concen: 8.251 ng

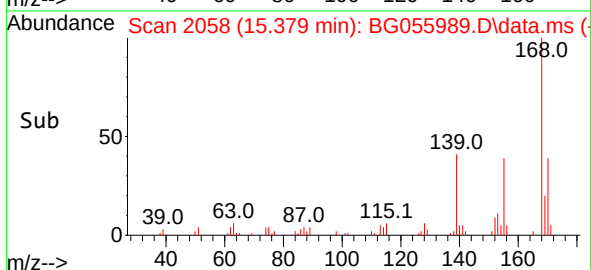
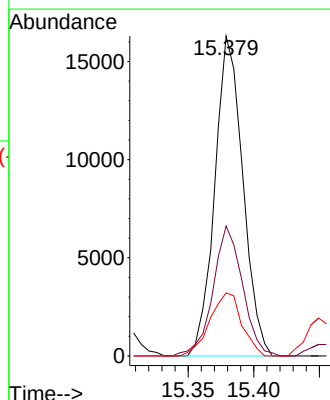
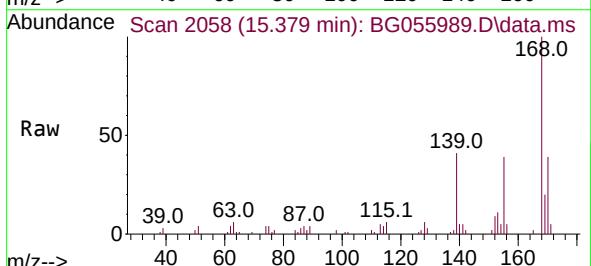
RT: 15.379 min Scan# 2058

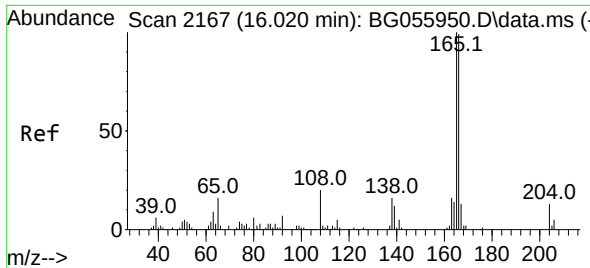
Delta R.T. 0.005 min

Lab File: BG055989.D

Acq: 15 Dec 2022 23:18

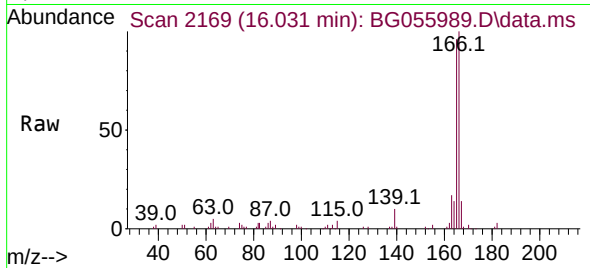
Tgt Ion:168	Resp:	24258
Ion Ratio	Lower	Upper
168	100	
139	40.6	29.8 44.8
169	19.7	10.6 16.0





#58
Fluorene
Concen: 25.563 ng
RT: 16.031 min Scan# 2167
Delta R.T. 0.011 min
Lab File: BG055989.D
Acq: 15 Dec 2022 23:18

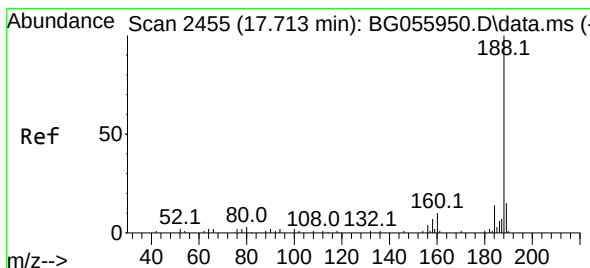
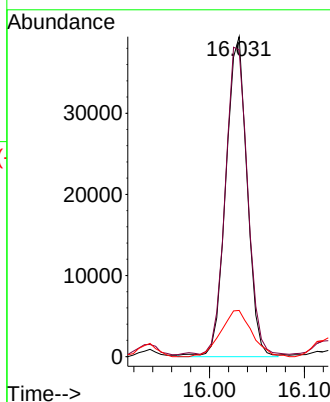
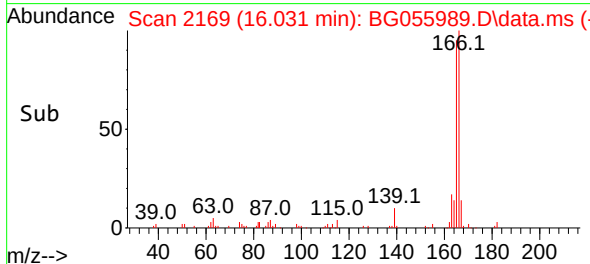
Instrument :
BNA_G
ClientSampleId :
RB-21-(6-8)



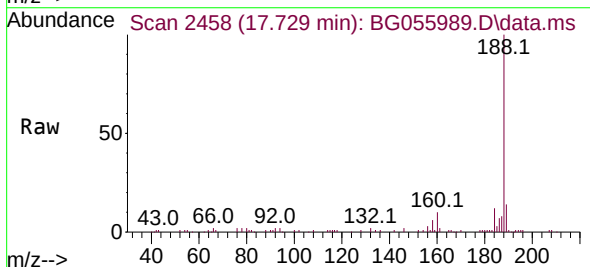
Tgt Ion:166 Resp: 61432
Ion Ratio Lower Upper
166 100
165 95.8 81.1 121.7
167 14.4 10.5 15.7

Manual Integrations
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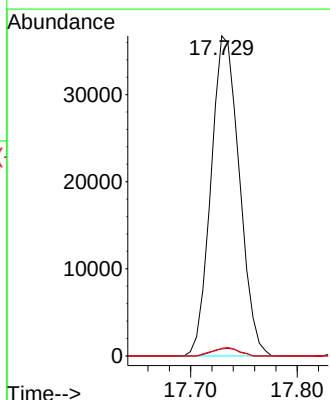
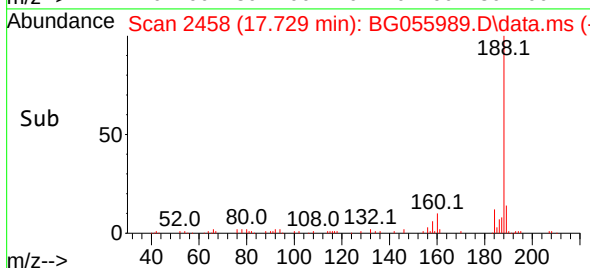
Reviewed By :Jagrut Upadhyay 12/16/2022
Supervised By :mohammad ahmed 12/17/2022

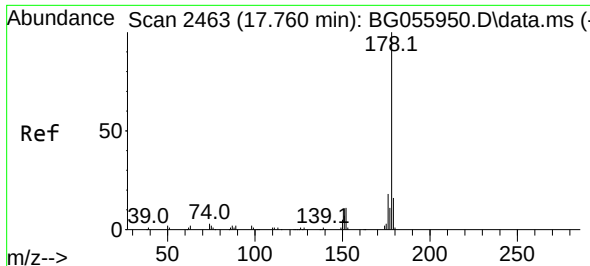


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.729 min Scan# 2458
Delta R.T. 0.017 min
Lab File: BG055989.D
Acq: 15 Dec 2022 23:18



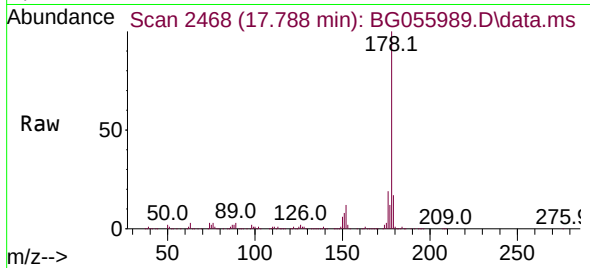
Tgt Ion:188 Resp: 68019
Ion Ratio Lower Upper
188 100
94 2.2 1.8 2.8
80 2.4 2.4 3.6#





#71
Phenanthrene
Concen: 374.407 ng
RT: 17.788 min Scan# 2468
Delta R.T. 0.028 min
Lab File: BG055989.D
Acq: 15 Dec 2022 23:18

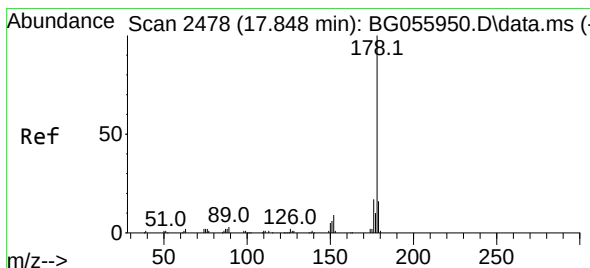
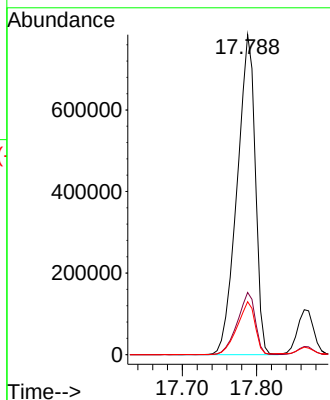
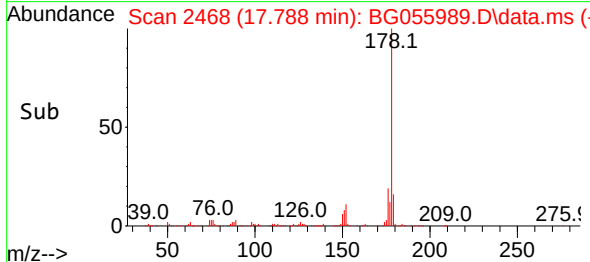
Instrument :
BNA_G
ClientSampleId :
RB-21-(6-8)



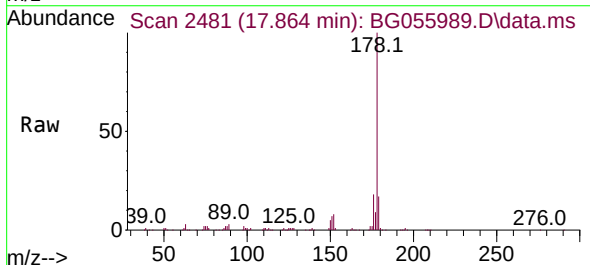
Tgt Ion:178 Resp: 1334594
Ion Ratio Lower Upper
178 100
176 19.4 14.4 21.6
179 16.5 12.7 19.1

Manual Integrations
APPROVED

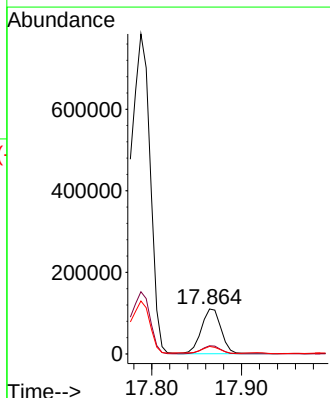
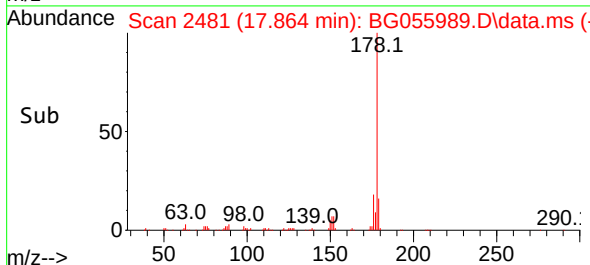
Reviewed By :Jagrut Upadhyay 12/16/2022
Supervised By :mohammad ahmed 12/17/2022

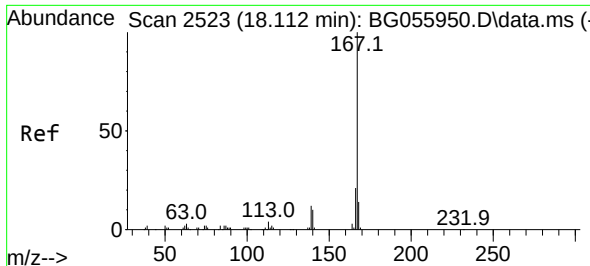


#72
Anthracene
Concen: 48.061 ng
RT: 17.864 min Scan# 2481
Delta R.T. 0.017 min
Lab File: BG055989.D
Acq: 15 Dec 2022 23:18



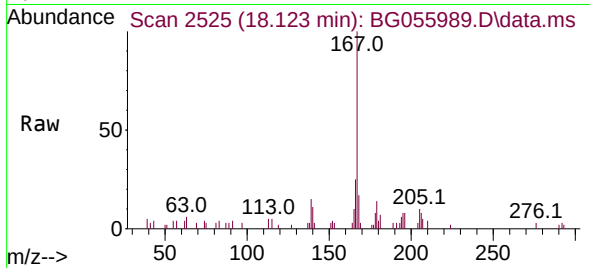
Tgt Ion:178 Resp: 169488
Ion Ratio Lower Upper
178 100
176 18.2 13.9 20.9
179 16.6 12.7 19.1





#73
 Carbazole
 Concen: 3.892 ng
 RT: 18.123 min Scan# 2523
 Delta R.T. 0.011 min
 Lab File: BG055989.D
 Acq: 15 Dec 2022 23:18

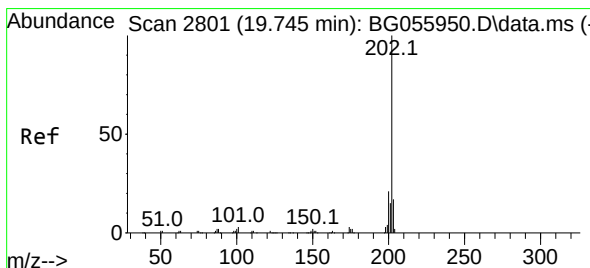
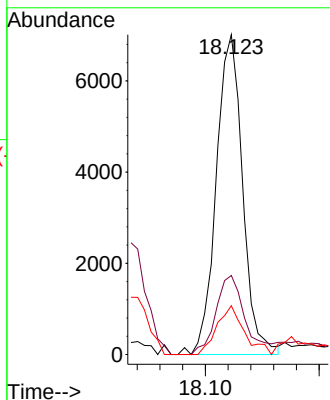
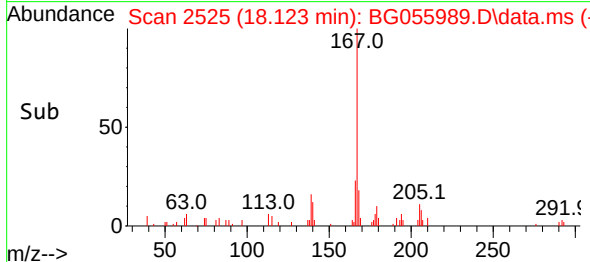
Instrument :
 BNA_G
 ClientSampleId :
 RB-21-(6-8)



Tgt Ion:167 Resp: 11320
 Ion Ratio Lower Upper
 167 100
 166 24.7 16.6 25.0
 139 15.3 9.7 14.5

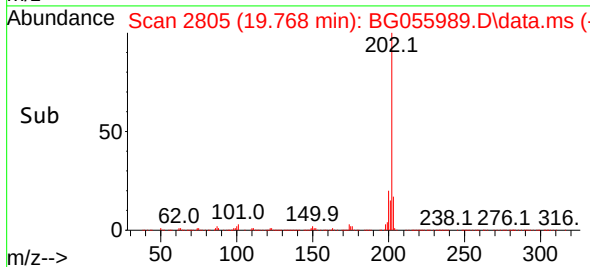
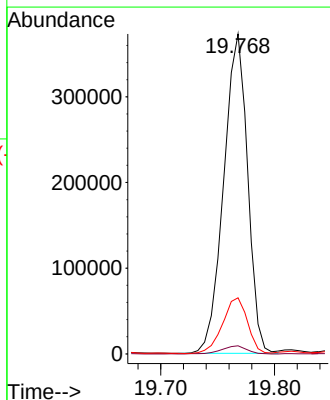
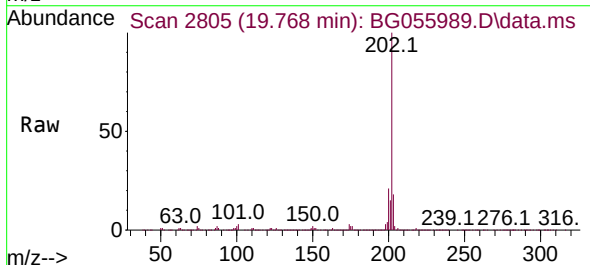
Manual Integrations
 APPROVED

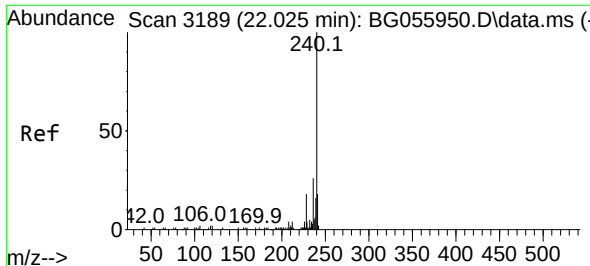
Reviewed By :Jagrut Upadhyay 12/16/2022
 Supervised By :mohammad ahmed 12/17/2022



#75
 Fluoranthene
 Concen: 108.992 ng
 RT: 19.768 min Scan# 2805
 Delta R.T. 0.022 min
 Lab File: BG055989.D
 Acq: 15 Dec 2022 23:18

Tgt Ion:202 Resp: 544027
 Ion Ratio Lower Upper
 202 100
 101 2.5 0.0 22.6
 203 17.5 0.0 37.1





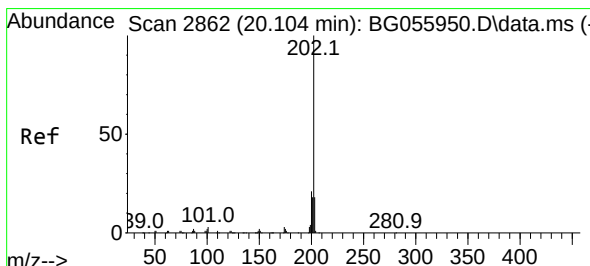
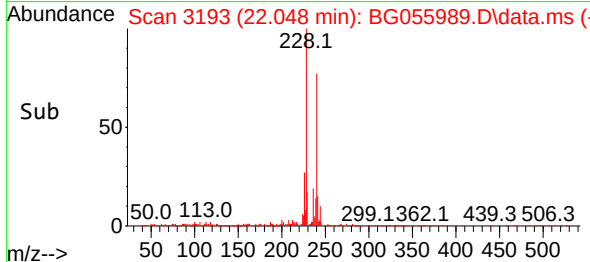
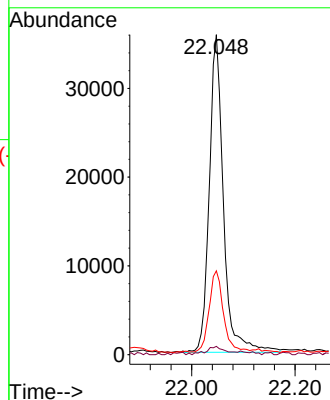
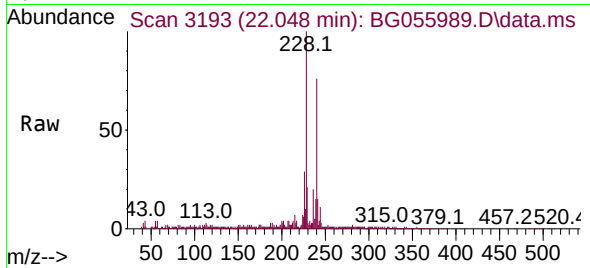
#76
Chrysene-d12
Concen: 20.000 ng
RT: 22.048 min Scan# 3189
Delta R.T. 0.022 min
Lab File: BG055989.D
Acq: 15 Dec 2022 23:18

Instrument :
BNA_G
ClientSampleId :
RB-21-(6-8)

Tgt Ion:240 Resp: 68019
Ion Ratio Lower Upper
240 100
120 2.6 1.7 2.5
236 26.2 21.1 31.7

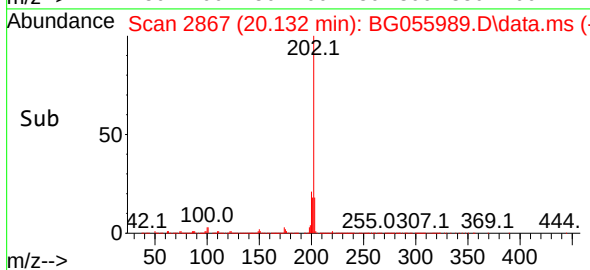
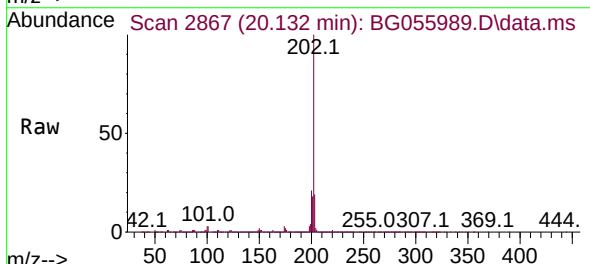
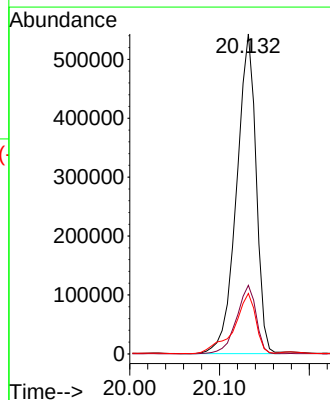
Manual Integrations
APPROVED

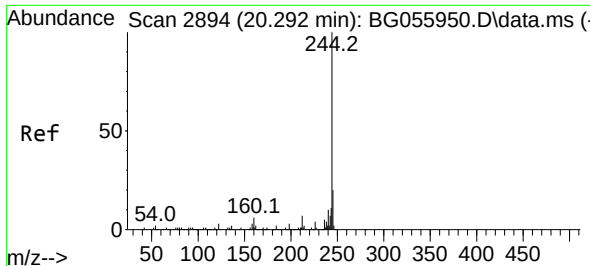
Reviewed By :Jagrut Upadhyay 12/16/2022
Supervised By :mohammad ahmed 12/17/2022



#78
Pyrene
Concen: 199.395 ng
RT: 20.132 min Scan# 2867
Delta R.T. 0.028 min
Lab File: BG055989.D
Acq: 15 Dec 2022 23:18

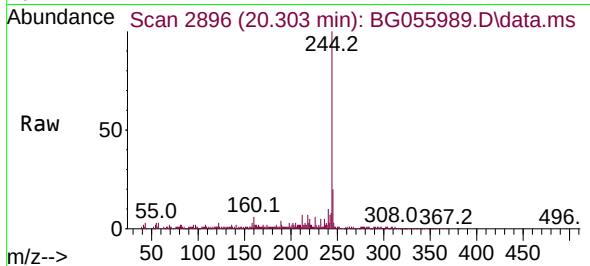
Tgt Ion:202 Resp: 820684
Ion Ratio Lower Upper
202 100
200 21.4 16.7 25.1
203 18.9 14.6 21.8





#79
 Terphenyl-d14
 Concen: 15.801 ng
 RT: 20.303 min Scan# 2894
 Delta R.T. 0.011 min
 Lab File: BG055989.D
 Acq: 15 Dec 2022 23:18

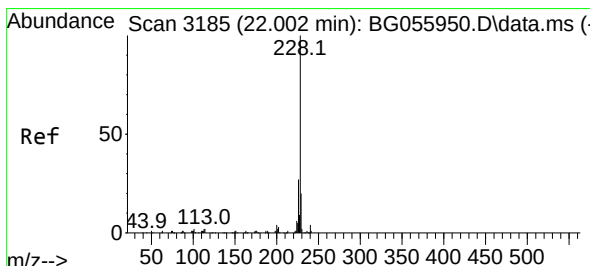
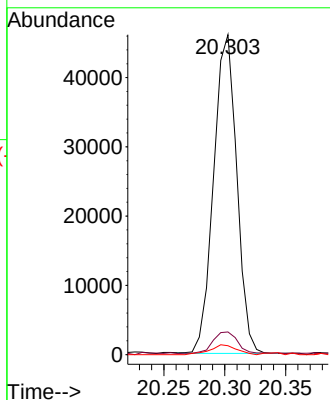
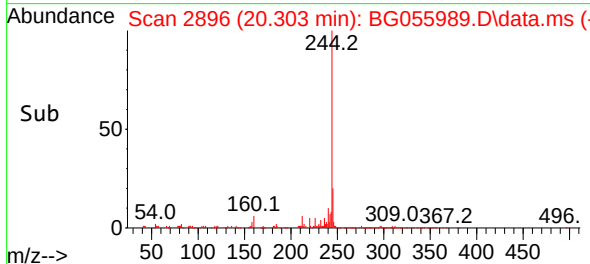
Instrument :
 BNA_G
 ClientSampleId :
 RB-21-(6-8)



Tgt Ion:244 Resp: 60812
 Ion Ratio Lower Upper
 244 100
 212 7.1 5.8 8.6
 122 2.8 2.5 3.7

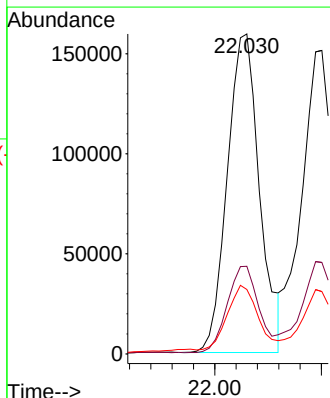
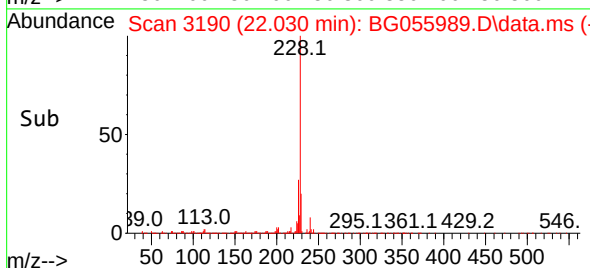
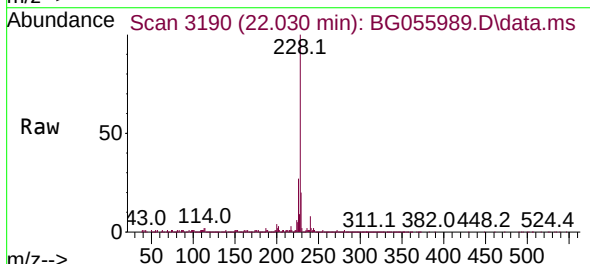
Manual Integrations
 APPROVED

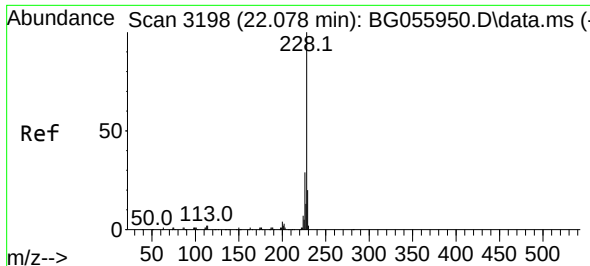
Reviewed By :Jagrut Upadhyay 12/16/2022
 Supervised By :mohammad ahmed 12/17/2022



#81
 Benzo(a)anthracene
 Concen: 69.833 ng
 RT: 22.030 min Scan# 3190
 Delta R.T. 0.028 min
 Lab File: BG055989.D
 Acq: 15 Dec 2022 23:18

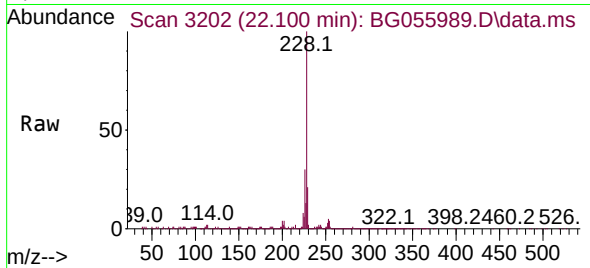
Tgt Ion:228 Resp: 334245
 Ion Ratio Lower Upper
 228 100
 226 27.4 21.8 32.6
 229 20.1 15.9 23.9





#83
Chrysene
Concen: 74.907 ng
RT: 22.100 min Scan# 3198
Delta R.T. 0.022 min
Lab File: BG055989.D
Acq: 15 Dec 2022 23:18

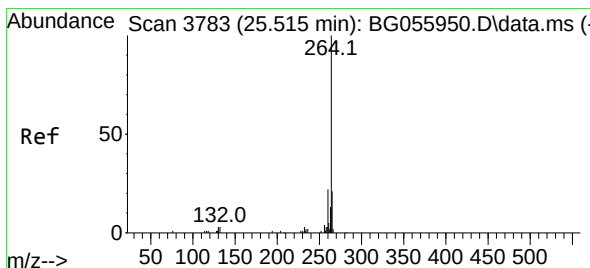
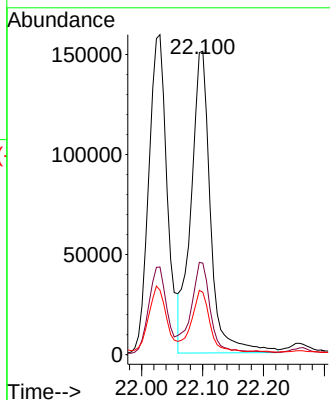
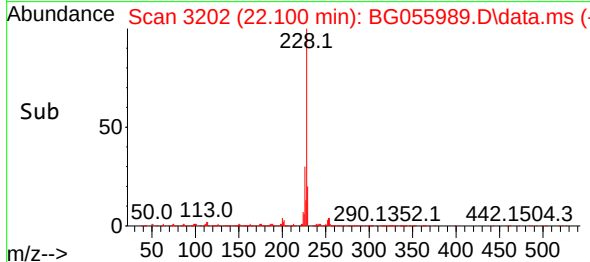
Instrument :
BNA_G
ClientSampleId :
RB-21-(6-8)



Tgt Ion:228 Resp: 336019
Ion Ratio Lower Upper
228 100
226 30.2 23.1 34.7
229 20.6 15.7 23.5

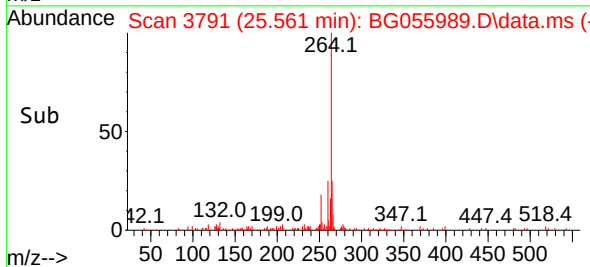
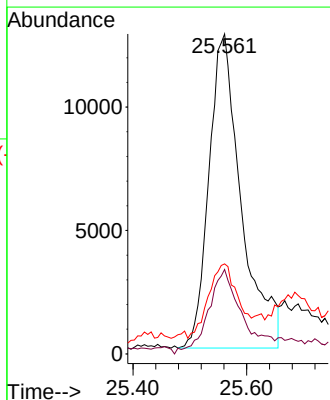
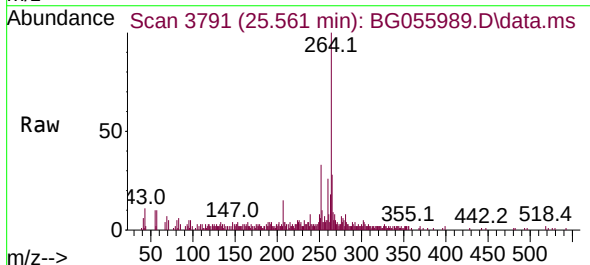
Manual Integrations
APPROVED

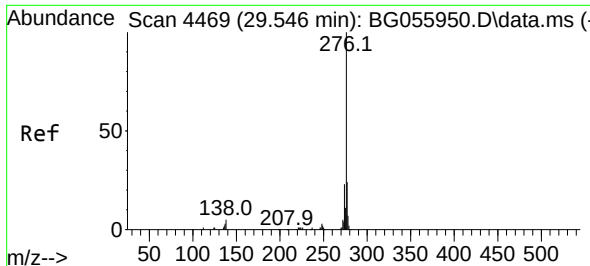
Reviewed By :Jagrut Upadhyay 12/16/2022
Supervised By :mohammad ahmed 12/17/2022



#86
Perylene-d12
Concen: 20.000 ng
RT: 25.561 min Scan# 3791
Delta R.T. 0.046 min
Lab File: BG055989.D
Acq: 15 Dec 2022 23:18

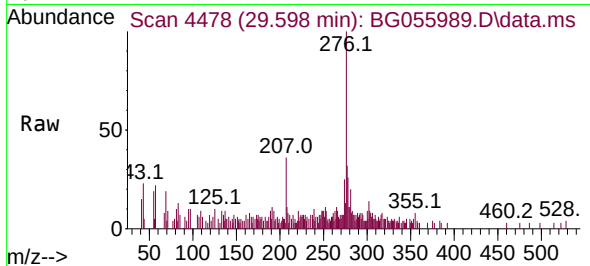
Tgt Ion:264 Resp: 50444
Ion Ratio Lower Upper
264 100
260 26.4 17.8 26.8
265 28.1 16.6 25.0#





#87
 Indeno(1,2,3-cd)pyrene
 Concen: 7.826 ng m
 RT: 29.598 min Scan# 4469
 Delta R.T. 0.052 min
 Lab File: BG055989.D
 Acq: 15 Dec 2022 23:18

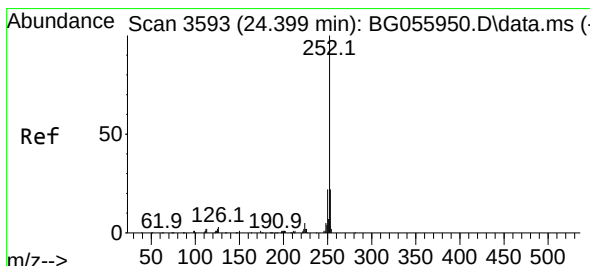
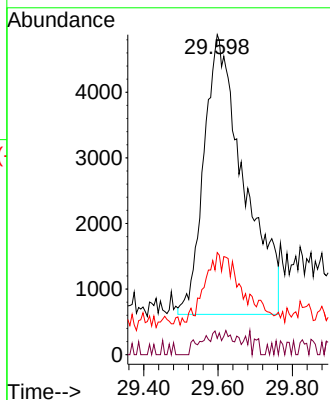
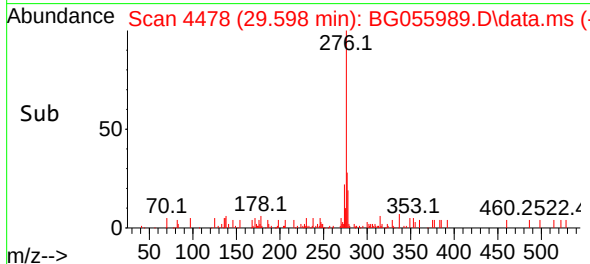
Instrument :
 BNA_G
 ClientSampleId :
 RB-21-(6-8)



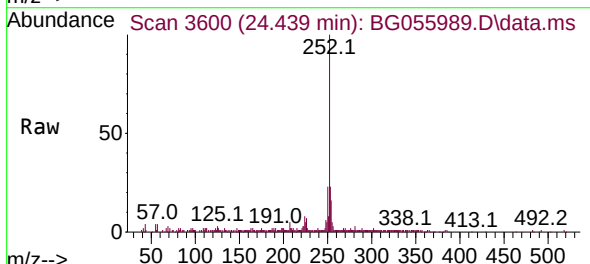
Tgt Ion: 276 Resp: 31744
 Ion Ratio Lower Upper
 276 100
 138 1.6 3.0 4.4
 277 8.3 20.4 30.6

Manual Integrations
 APPROVED

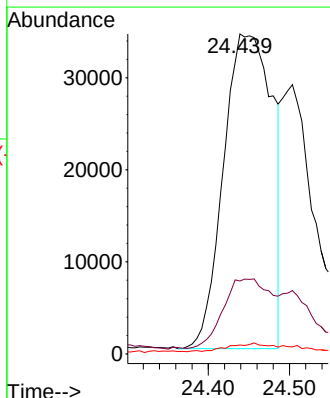
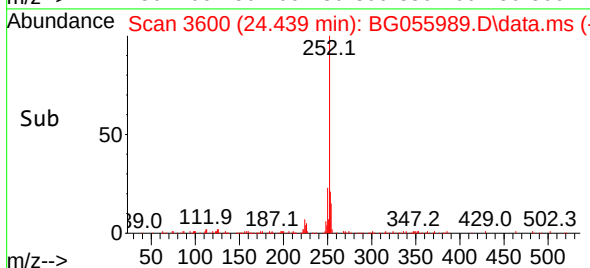
Reviewed By :Jagrut Upadhyay 12/16/2022
 Supervised By :mohammad ahmed 12/17/2022

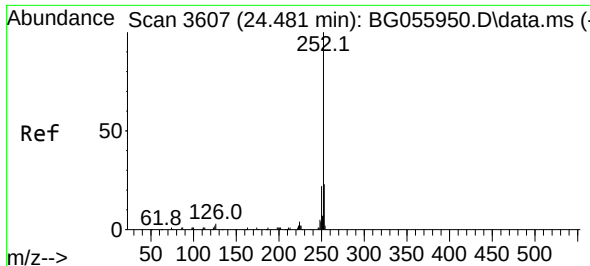


#88
 Benzo(b)fluoranthene
 Concen: 43.783 ng
 RT: 24.439 min Scan# 3600
 Delta R.T. 0.040 min
 Lab File: BG055989.D
 Acq: 15 Dec 2022 23:18



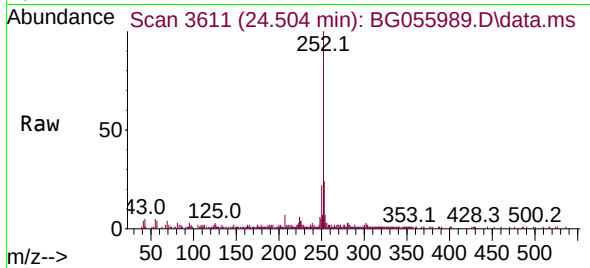
Tgt Ion: 252 Resp: 142937
 Ion Ratio Lower Upper
 252 100
 253 22.8 17.4 26.0
 125 2.8 1.8 2.8





#89
Benzo(k)fluoranthene
Concen: 27.757 ng m
RT: 24.504 min Scan# 3611
Delta R.T. 0.022 min
Lab File: BG055989.D
Acq: 15 Dec 2022 23:18

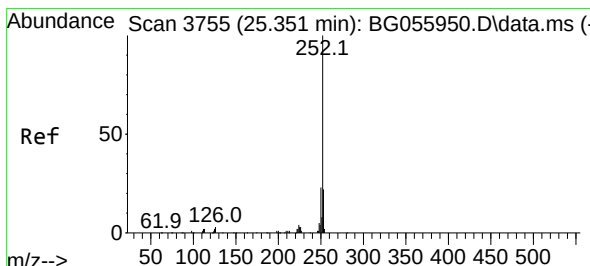
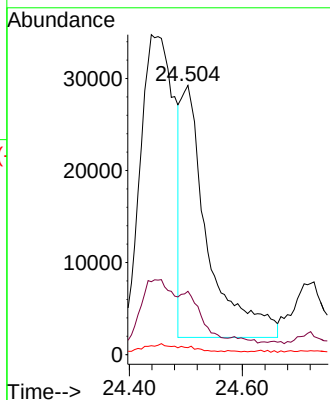
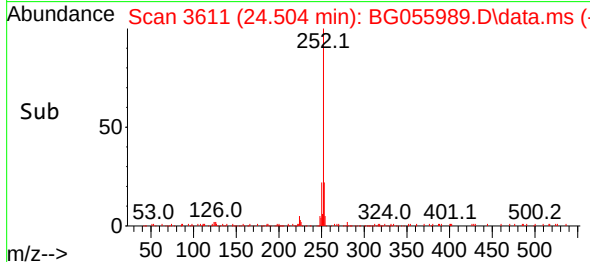
Instrument :
BNA_G
ClientSampleId :
RB-21-(6-8)



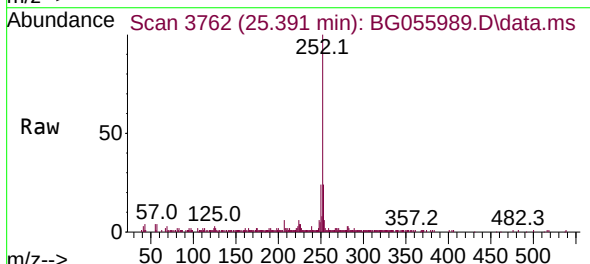
Tgt Ion:252 Resp: 90410
Ion Ratio Lower Upper
252 100
253 23.5 18.2 27.2
125 2.6 2.0 3.0

Manual Integrations
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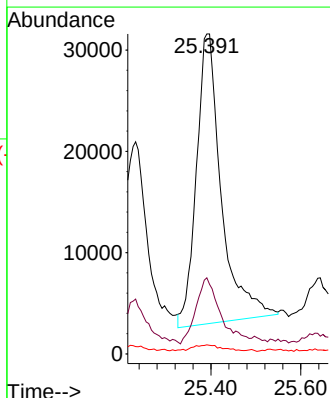
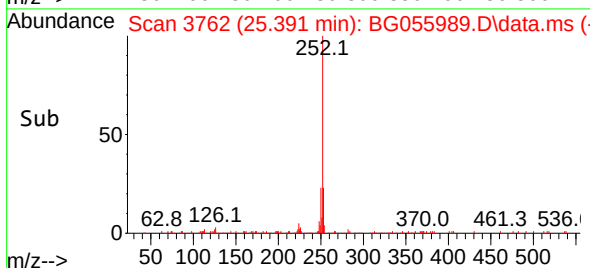
Reviewed By :Jagrut Upadhyay 12/16/2022
Supervised By :mohammad ahmed 12/17/2022

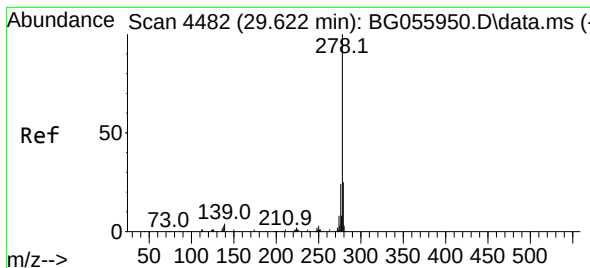


#90
Benzo(a)pyrene
Concen: 40.033 ng
RT: 25.391 min Scan# 3762
Delta R.T. 0.040 min
Lab File: BG055989.D
Acq: 15 Dec 2022 23:18



Tgt Ion:252 Resp: 110474
Ion Ratio Lower Upper
252 100
253 23.8 17.7 26.5
125 2.8 1.9 2.9





#91

Dibenzo(a,h)anthracene

Concen: 3.241 ng m

RT: 29.668 min Scan# 4482

Delta R.T. 0.046 min

Lab File: BG055989.D

Acq: 15 Dec 2022 23:18

Instrument :

BNA_G

ClientSampleId :

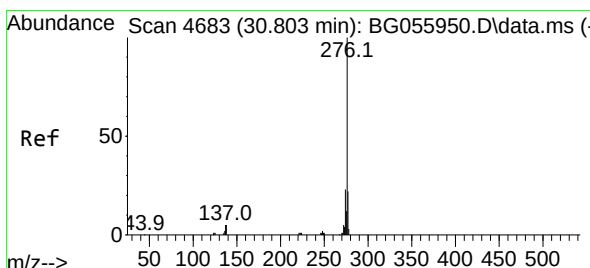
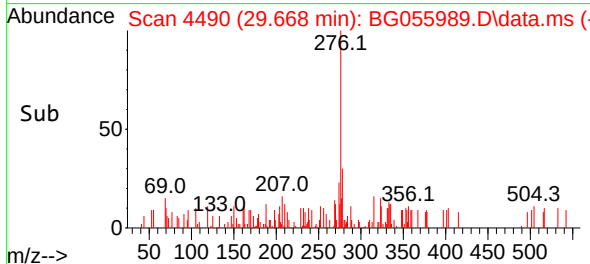
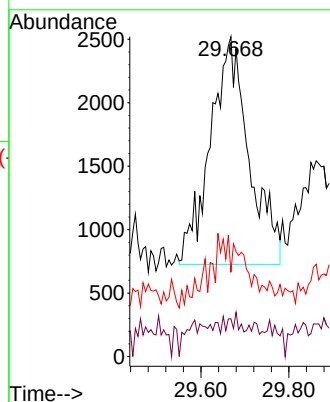
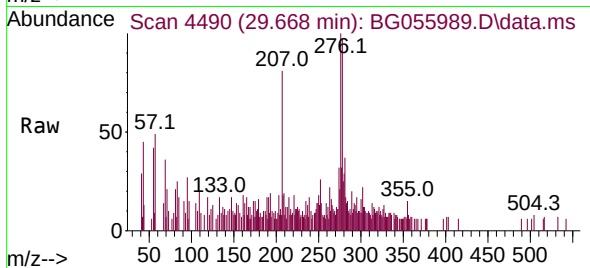
RB-21-(6-8)

Tgt Ion:	278	Resp:	1100
Ion Ratio	Lower	Upper	
278	100		
139	11.8	2.9	4.3
279	26.3	20.0	30.0

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 12/16/2022
Supervised By :mohammad ahmed 12/17/2022



#92

Benzo(g,h,i)perylene

Concen: 7.369 ng m

RT: 30.855 min Scan# 4692

Delta R.T. 0.052 min

Lab File: BG055989.D

Acq: 15 Dec 2022 23:18

Tgt Ion:	276	Resp:	24189
Ion Ratio	Lower	Upper	
276	100		
277	23.9	17.8	26.6
138	7.2	3.8	5.6

