

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG041224\
 Data File : BG060884.D
 Acq On : 12 Apr 2024 21:47
 Operator : MA/JU
 Sample : P2091-01 2X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 OR-02-041124

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 04/16/2024
 Supervised By :mohammad ahmed 04/17/2024

Quant Time: Apr 12 22:44:58 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG032924.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Mar 30 03:12:26 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.958	152	67924	20.000	ng	0.00
21) Naphthalene-d8	10.749	136	254656	20.000	ng	0.00
39) Acenaphthene-d10	14.586	164	181649	20.000	ng	0.00
64) Phenanthrene-d10	17.335	188	395532	20.000	ng	0.00
76) Chrysene-d12	21.607	240	355666	20.000	ng	0.00
86) Perylene-d12	24.750	264	354478m	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.543	112	139527	34.220	ng	0.00
7) Phenol-d6	7.118	99	187241	30.937	ng	0.00
23) Nitrobenzene-d5	9.104	82	125489	28.119	ng	0.00
42) 2,4,6-Tribromophenol	16.072	330	98236	47.641	ng	0.00
45) 2-Fluorobiphenyl	13.205	172	293860	23.742	ng	-0.02
79) Terphenyl-d14	19.956	244	500753	24.791	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.802	128	254536	18.478	ng	99
37) 2-Methylnaphthalene	12.412	142	149782	14.790	ng	97
38) 1-Methylnaphthalene	12.623	142	98843	10.331	ng	96
46) 1,1'-Biphenyl	13.416	154	33706	2.627	ng	99
49) Acenaphthylene	14.304	152	70394m	4.298	ng	
52) Acenaphthene	14.644	154	267475	26.009	ng	99
55) Dibenzofuran	14.979	168	352626	21.738	ng	98
58) Fluorene	15.631	166	525216	40.342	ng	97
71) Phenanthrene	17.382	178	3308591	160.839	ng	92
72) Anthracene	17.471	178	1441268	68.990	ng	99
73) Carbazole	17.729	167	253023	13.737	ng	99
75) Fluoranthene	19.404	202	3806785	152.506	ng	94
78) Pyrene	19.762	202	3398235	136.615	ng	93
81) Benzo(a)anthracene	21.589	228	2050288	81.780	ng	96
83) Chrysene	21.654	228	1837901m	76.058	ng	
87) Indeno(1,2,3-cd)pyrene	28.328	276	473622m	18.973	ng	
88) Benzo(b)fluoranthene	23.769	252	1826191	89.674	ng	99
89) Benzo(k)fluoranthene	23.822	252	685235m	32.874	ng	
90) Benzo(a)pyrene	24.609	252	1231699m	62.237	ng	
92) Benzo(g,h,i)perylene	29.427	276	399824m	19.532	ng	

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

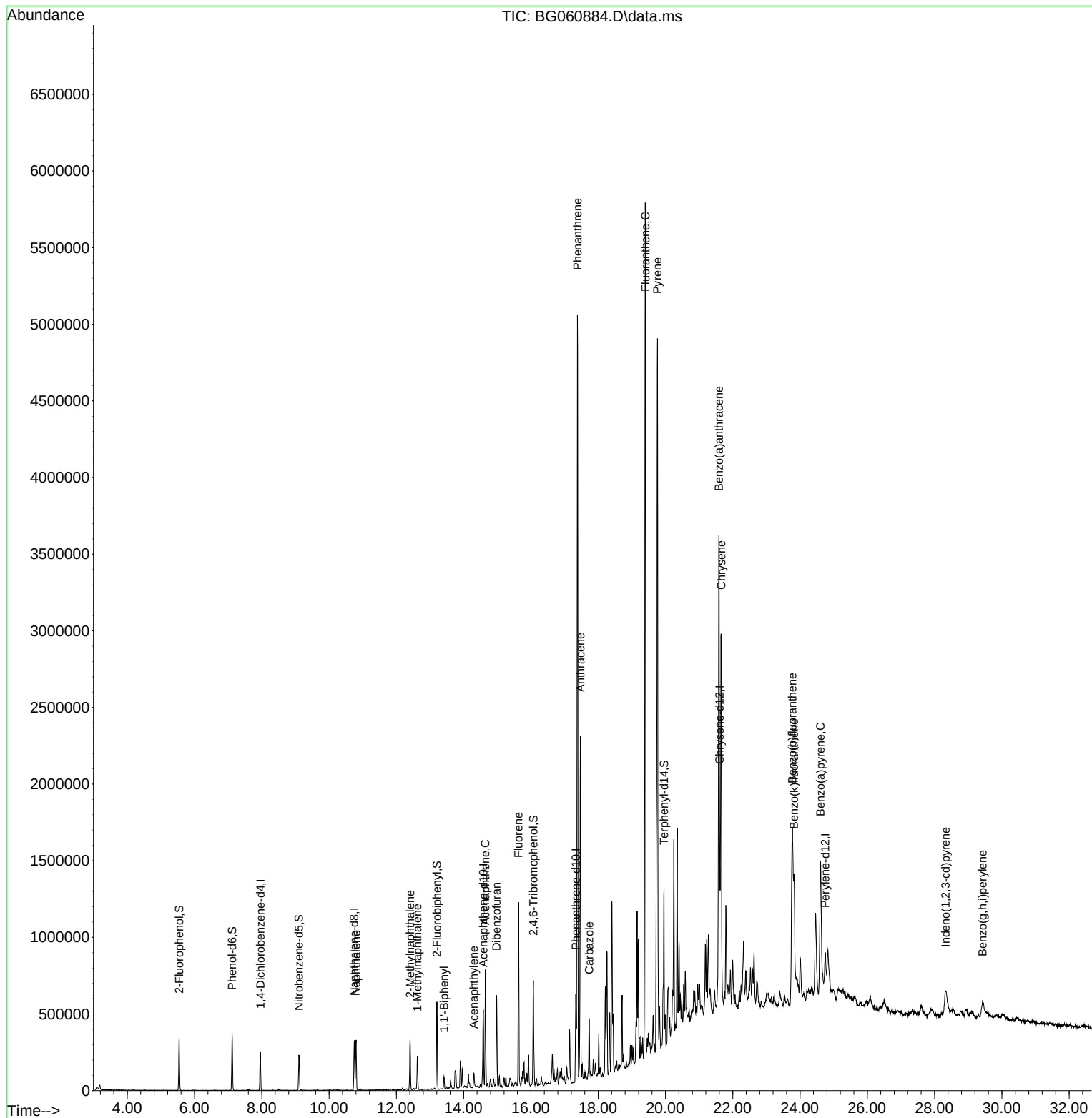
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG041224\
Data File : BG060884.D
Acq On : 12 Apr 2024 21:47
Operator : MA/JU
Sample : P2091-01 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

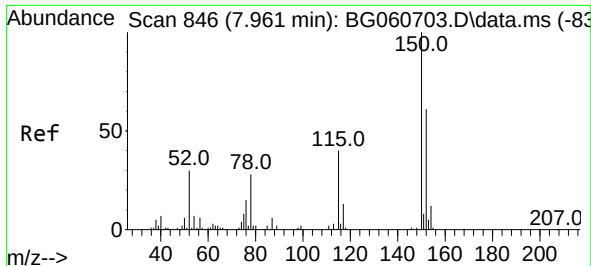
Instrument :
BNA_G
ClientSampleId :
OR-02-041124

Quant Time: Apr 12 22:44:58 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG032924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Mar 30 03:12:26 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 04/16/2024
Supervised By :mohammad ahmed 04/17/2024





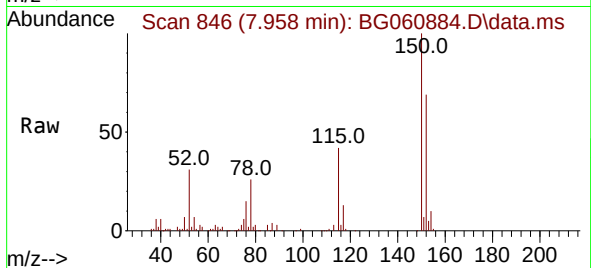
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.958 min Scan# 846
Delta R.T. -0.003 min
Lab File: BG060884.D
Acq: 12 Apr 2024 21:47

Instrument :

BNA_G

ClientSampleId :

OR-02-041124



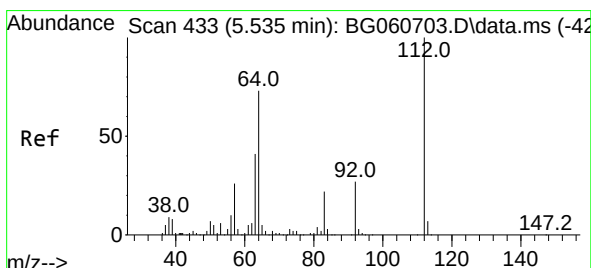
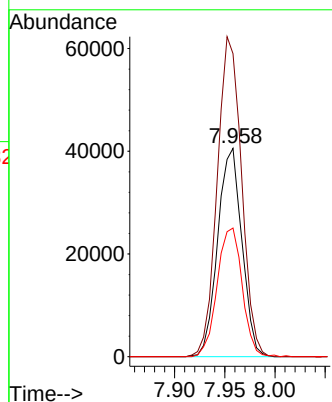
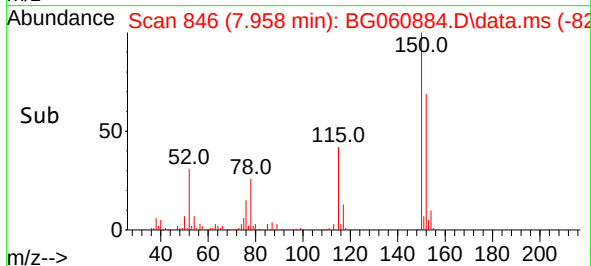
Tgt Ion:152 Resp: 67924
Ion Ratio Lower Upper
152 100
150 145.4 130.2 195.4
115 61.7 51.6 77.4

Manual Integrations

APPROVED

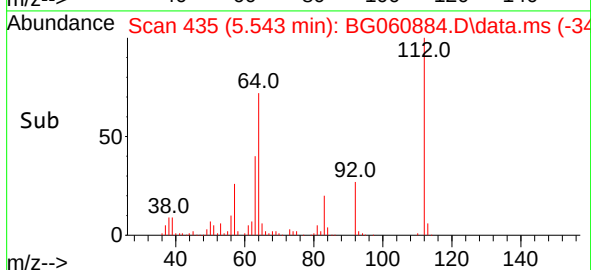
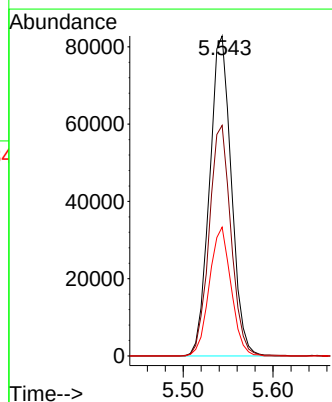
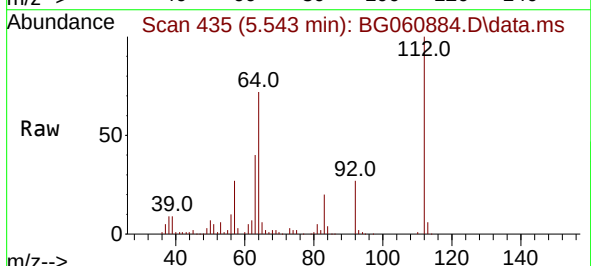
Reviewed By :Yogesh Patel 04/16/2024

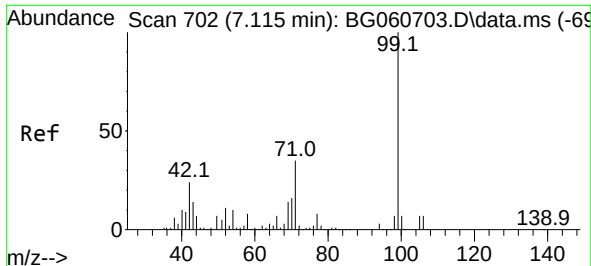
Supervised By :mohammad ahmed 04/17/2024



#5
2-Fluorophenol
Concen: 34.220 ng
RT: 5.543 min Scan# 435
Delta R.T. 0.008 min
Lab File: BG060884.D
Acq: 12 Apr 2024 21:47

Tgt Ion:112 Resp: 139527
Ion Ratio Lower Upper
112 100
64 72.0 58.4 87.6
63 40.2 32.7 49.1





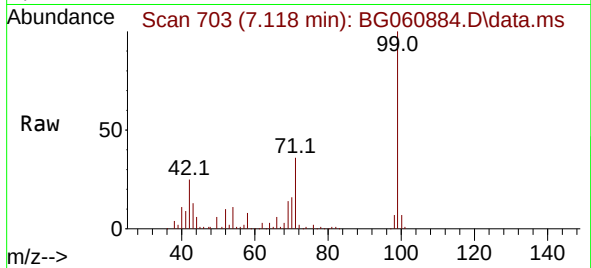
#7
Phenol-d6
Concen: 30.937 ng
RT: 7.118 min Scan# 702
Delta R.T. 0.003 min
Lab File: BG060884.D
Acq: 12 Apr 2024 21:47

Instrument :

BNA_G

ClientSampleId :

OR-02-041124



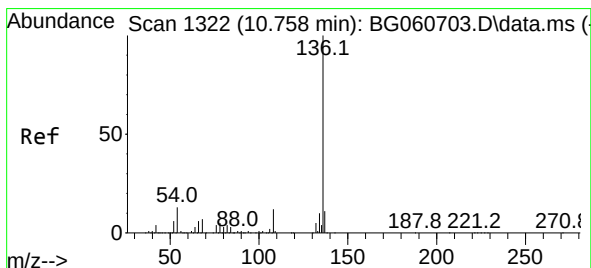
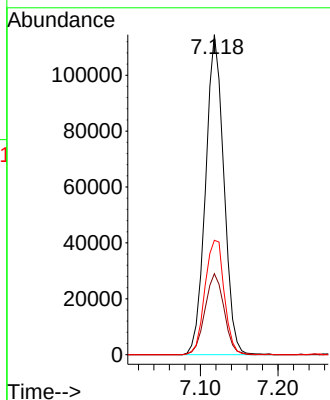
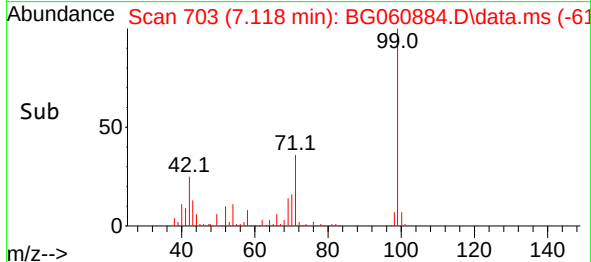
Tgt Ion: 99 Resp: 18724
Ion Ratio Lower Upper
99 100
42 25.3 19.4 29.2
71 35.8 28.2 42.2

Manual Integrations

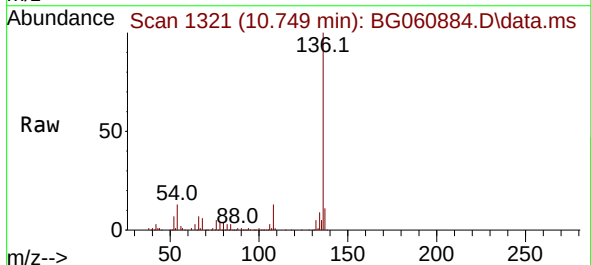
APPROVED

Reviewed By :Yogesh Patel 04/16/2024

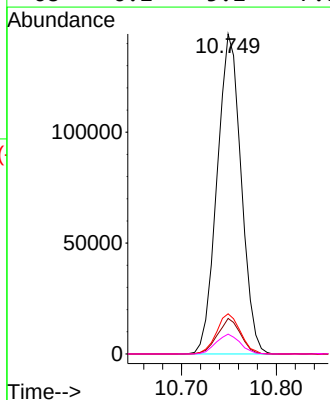
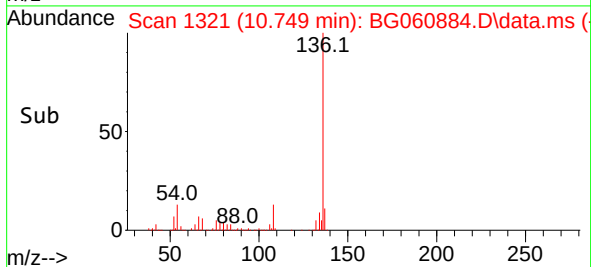
Supervised By :mohammad ahmed 04/17/2024

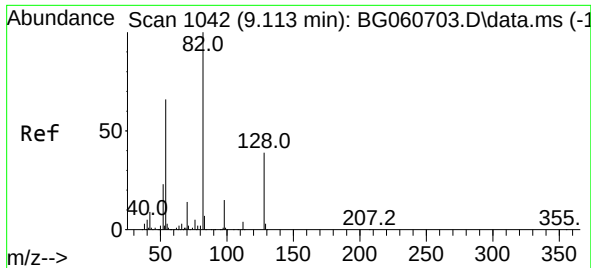


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.749 min Scan# 1321
Delta R.T. -0.009 min
Lab File: BG060884.D
Acq: 12 Apr 2024 21:47



Tgt Ion:136 Resp: 254656
Ion Ratio Lower Upper
136 100
137 11.1 8.8 13.2
54 12.5 10.2 15.2
68 6.2 5.2 7.8





#23
Nitrobenzene-d5
Concen: 28.119 ng
RT: 9.104 min Scan# 1041
Delta R.T. -0.009 min
Lab File: BG060884.D
Acq: 12 Apr 2024 21:47

Instrument :

BNA_G

ClientSampleId :

OR-02-041124

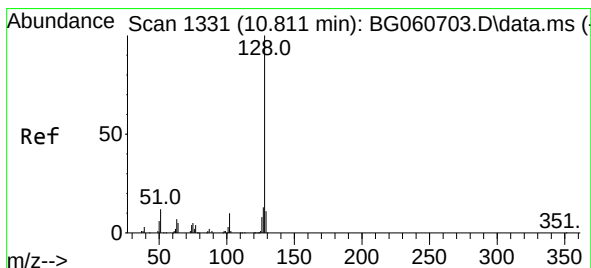
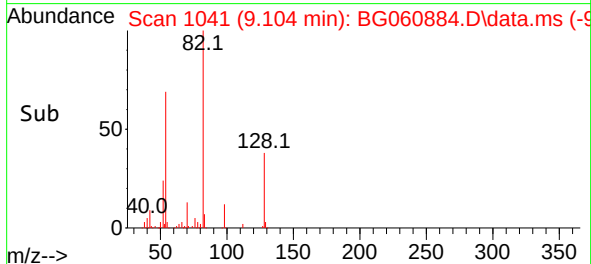
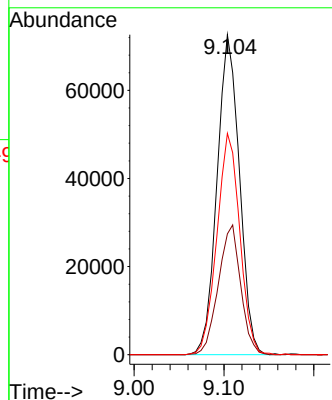
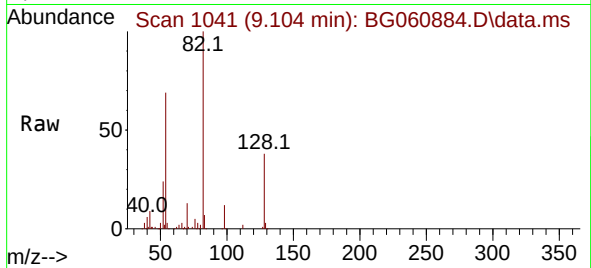
Tgt Ion: 82 Resp: 125489
Ion Ratio Lower Upper
82 100
128 37.7 31.2 46.8
54 69.1 53.2 79.8

Manual Integrations

APPROVED

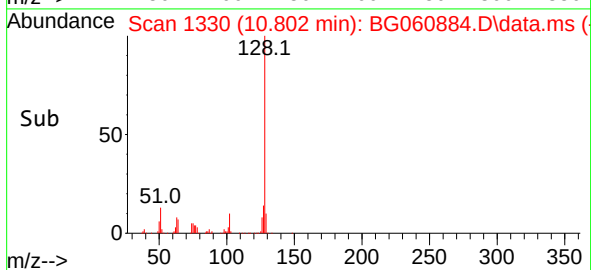
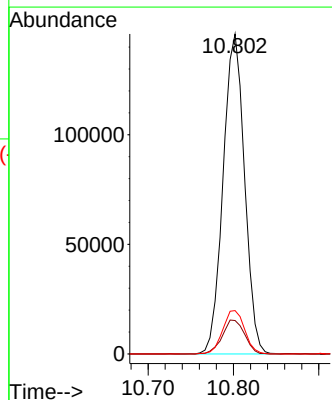
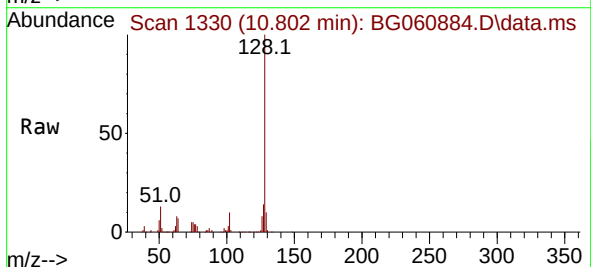
Reviewed By :Yogesh Patel 04/16/2024

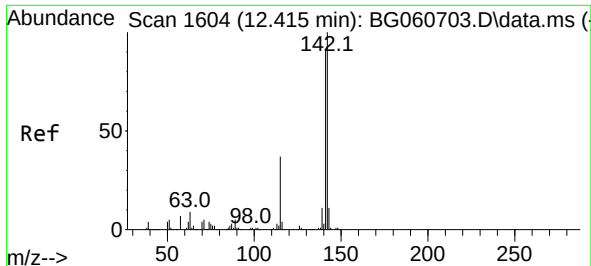
Supervised By :mohammad ahmed 04/17/2024



#31
Naphthalene
Concen: 18.478 ng
RT: 10.802 min Scan# 1330
Delta R.T. -0.009 min
Lab File: BG060884.D
Acq: 12 Apr 2024 21:47

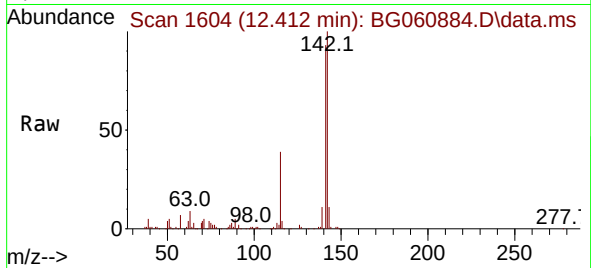
Tgt Ion:128 Resp: 254536
Ion Ratio Lower Upper
128 100
129 10.5 8.5 12.7
127 13.5 10.5 15.7





#37
2-Methylnaphthalene
Concen: 14.790 ng
RT: 12.412 min Scan# 1604
Delta R.T. -0.003 min
Lab File: BG060884.D
Acq: 12 Apr 2024 21:47

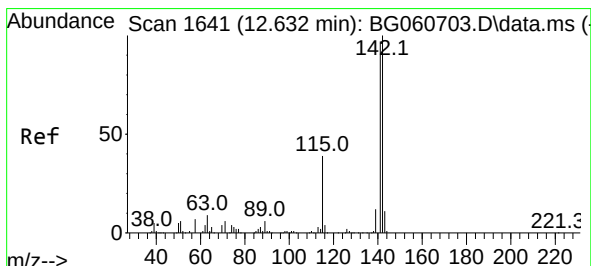
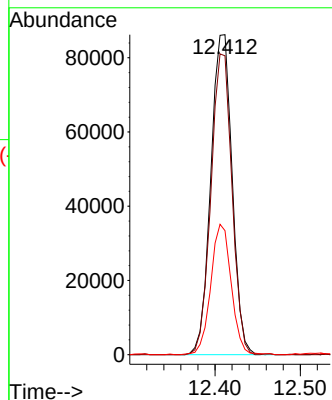
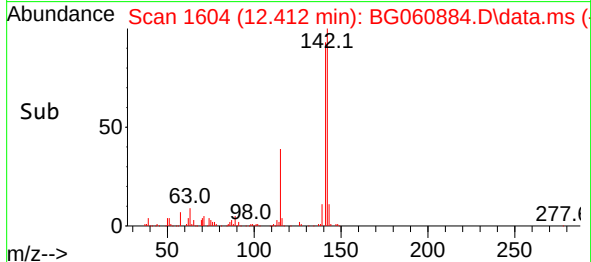
Instrument :
BNA_G
ClientSampleId :
OR-02-041124



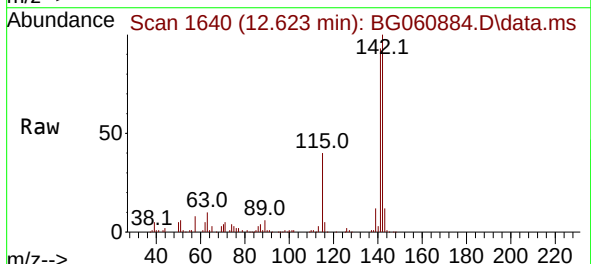
Tgt Ion:142 Resp: 14978
Ion Ratio Lower Upper
142 100
141 93.4 72.7 109.1
115 38.7 29.9 44.9

Manual Integrations
APPROVED

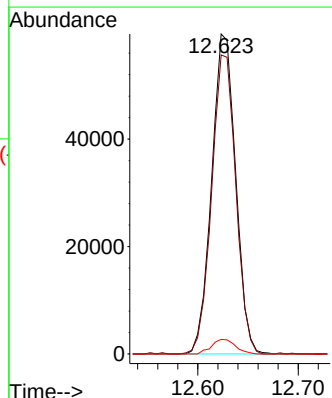
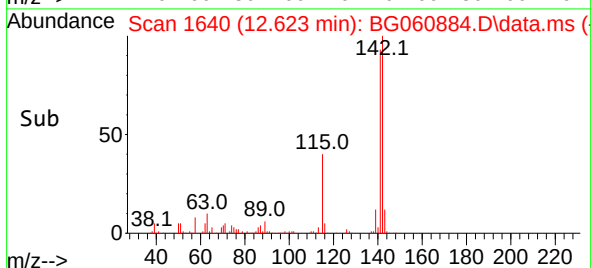
Reviewed By :Yogesh Patel 04/16/2024
Supervised By :mohammad ahmed 04/17/2024

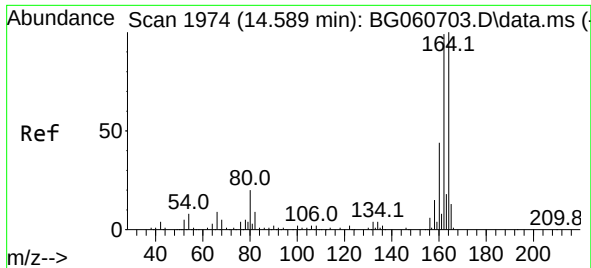


#38
1-Methylnaphthalene
Concen: 10.331 ng
RT: 12.623 min Scan# 1640
Delta R.T. -0.009 min
Lab File: BG060884.D
Acq: 12 Apr 2024 21:47



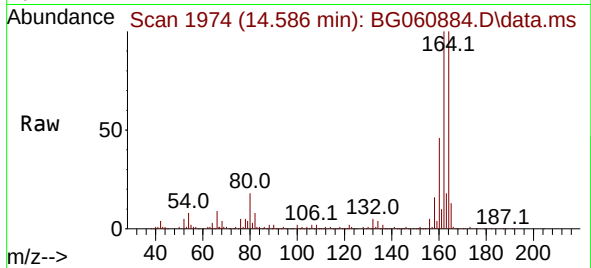
Tgt Ion:142 Resp: 98843
Ion Ratio Lower Upper
142 100
141 93.5 77.7 116.5
116 4.6 3.4 5.2





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.586 min Scan# 1974
Delta R.T. -0.003 min
Lab File: BG060884.D
Acq: 12 Apr 2024 21:47

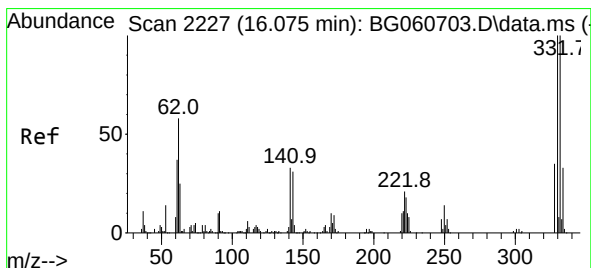
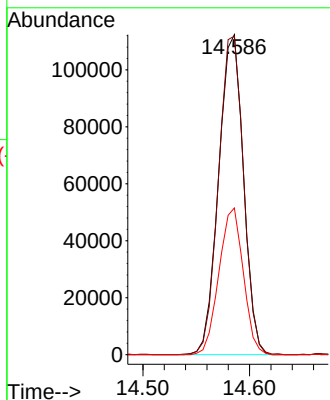
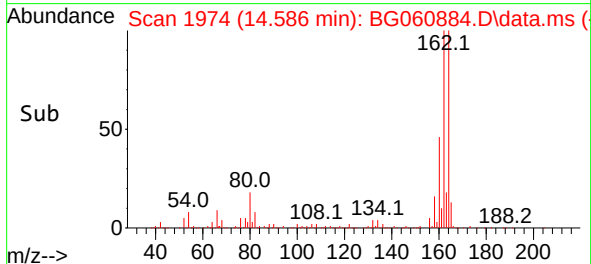
Instrument :
BNA_G
ClientSampleId :
OR-02-041124



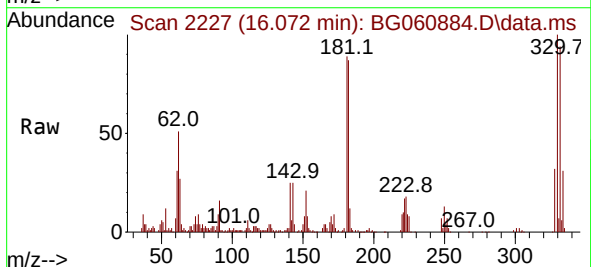
Tgt Ion:164 Resp: 181649
Ion Ratio Lower Upper
164 100
162 99.6 79.5 119.3
160 45.9 35.4 53.0

Manual Integrations
APPROVED

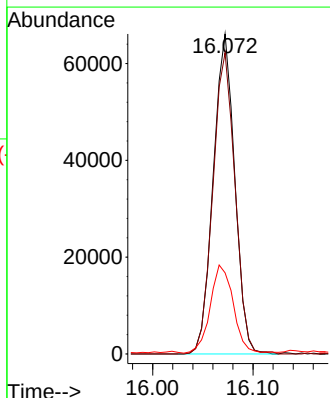
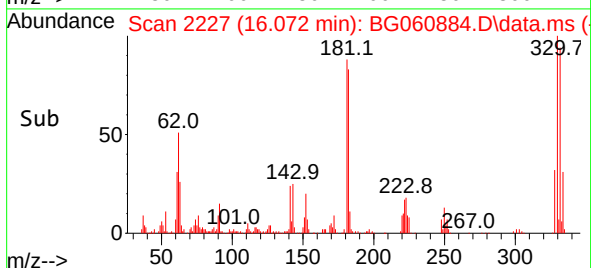
Reviewed By :Yogesh Patel 04/16/2024
Supervised By :mohammad ahmed 04/17/2024

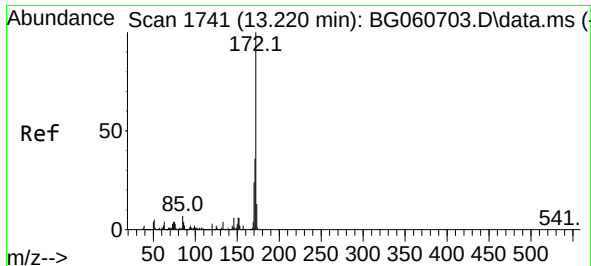


#42
2,4,6-Tribromophenol
Concen: 47.641 ng
RT: 16.072 min Scan# 2227
Delta R.T. -0.003 min
Lab File: BG060884.D
Acq: 12 Apr 2024 21:47



Tgt Ion:330 Resp: 98236
Ion Ratio Lower Upper
330 100
332 96.9 78.2 117.4
141 29.5 27.0 40.6





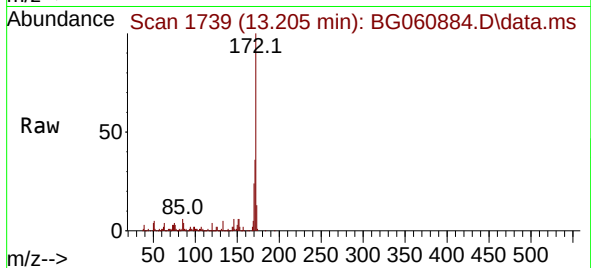
#45
2-Fluorobiphenyl
Concen: 23.742 ng
RT: 13.205 min Scan# 1739
Delta R.T. -0.015 min
Lab File: BG060884.D
Acq: 12 Apr 2024 21:47

Instrument :

BNA_G

ClientSampleId :

OR-02-041124



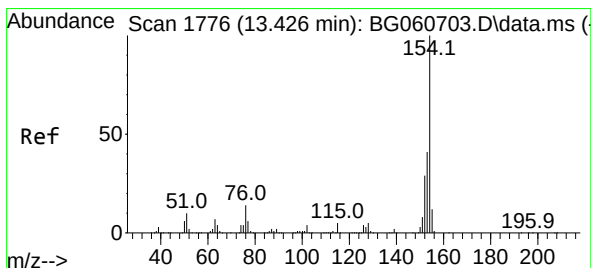
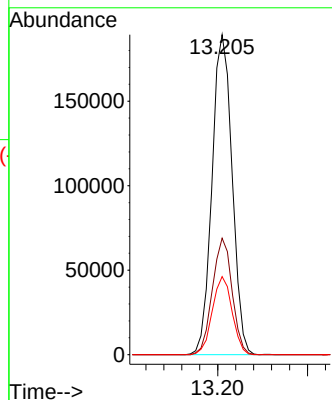
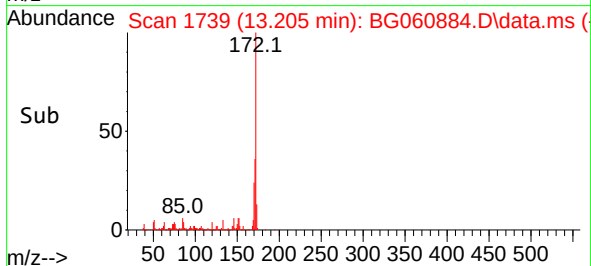
Tgt Ion:172 Resp: 293860
Ion Ratio Lower Upper
172 100
171 36.4 28.7 43.1
170 24.4 19.4 29.0

Manual Integrations

APPROVED

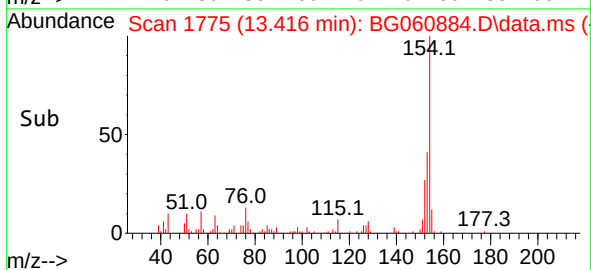
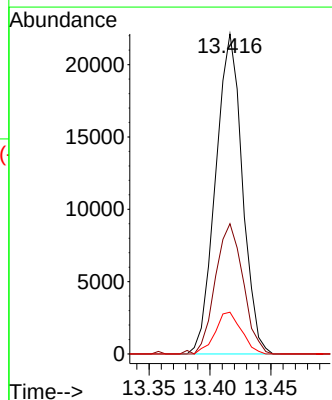
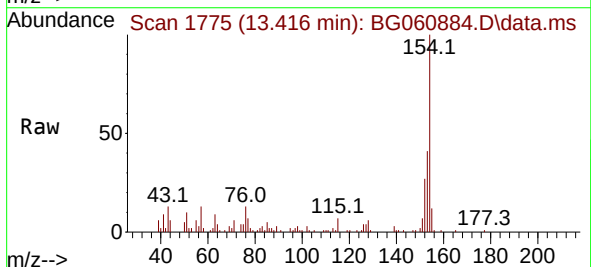
Reviewed By :Yogesh Patel 04/16/2024

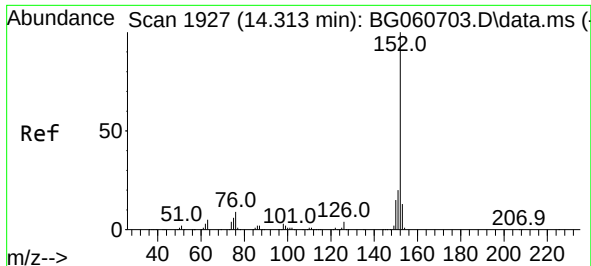
Supervised By :mohammad ahmed 04/17/2024



#46
1,1'-Biphenyl
Concen: 2.627 ng
RT: 13.416 min Scan# 1775
Delta R.T. -0.009 min
Lab File: BG060884.D
Acq: 12 Apr 2024 21:47

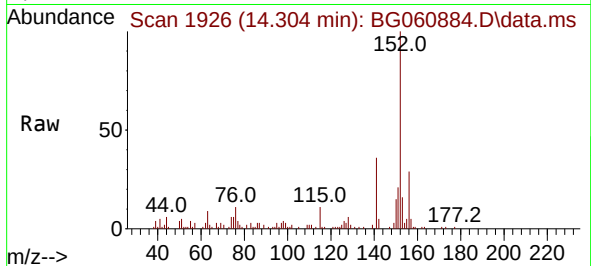
Tgt Ion:154 Resp: 33706
Ion Ratio Lower Upper
154 100
153 40.7 20.8 60.8
76 13.0 0.0 33.9





#49
Acenaphthylene
Concen: 4.298 ng m
RT: 14.304 min Scan# 1927
Delta R.T. -0.009 min
Lab File: BG060884.D
Acq: 12 Apr 2024 21:47

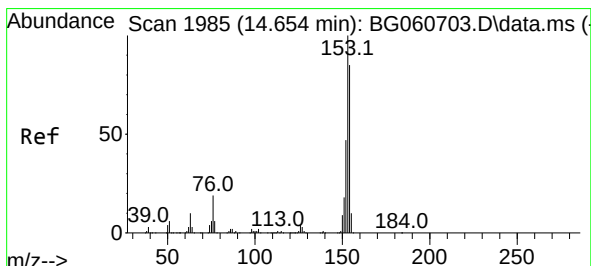
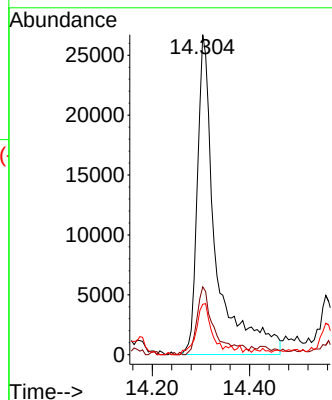
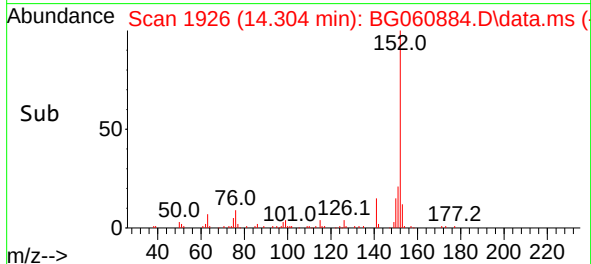
Instrument :
BNA_G
ClientSampleId :
OR-02-041124



Tgt Ion:152 Resp: 70394
Ion Ratio Lower Upper
152 100
151 21.2 16.4 24.6
153 15.8 10.5 15.7

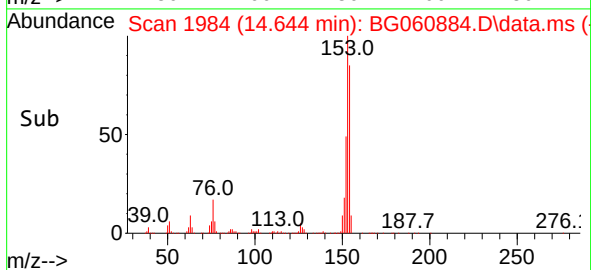
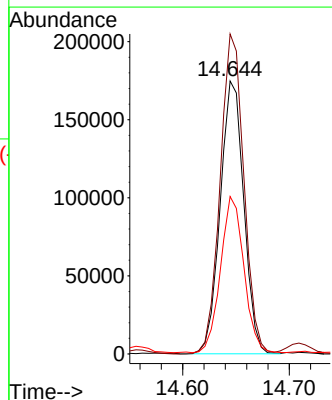
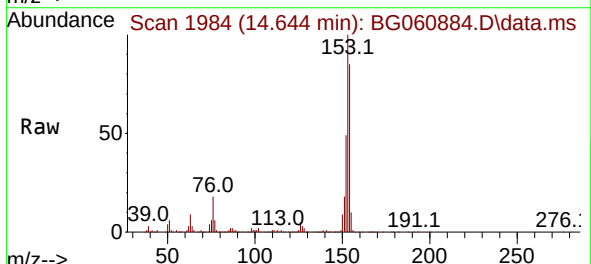
Manual Integrations
APPROVED

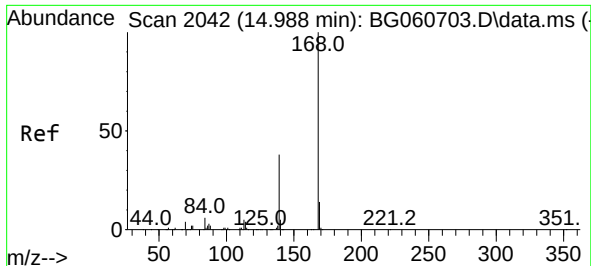
Reviewed By :Yogesh Patel 04/16/2024
Supervised By :mohammad ahmed 04/17/2024



#52
Acenaphthene
Concen: 26.009 ng
RT: 14.644 min Scan# 1984
Delta R.T. -0.010 min
Lab File: BG060884.D
Acq: 12 Apr 2024 21:47

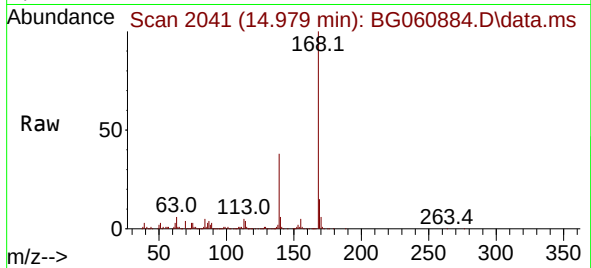
Tgt Ion:154 Resp: 267475
Ion Ratio Lower Upper
154 100
153 117.2 93.9 140.9
152 57.7 44.1 66.1





#55
Dibenzenofuran
Concen: 21.738 ng
RT: 14.979 min Scan# 2041
Delta R.T. -0.009 min
Lab File: BG060884.D
Acq: 12 Apr 2024 21:47

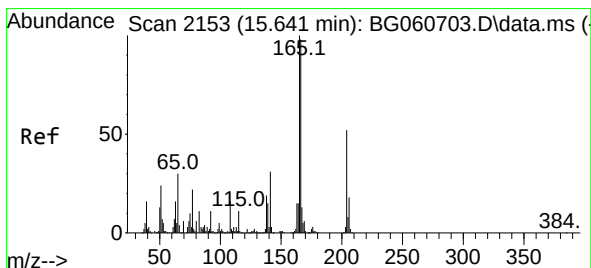
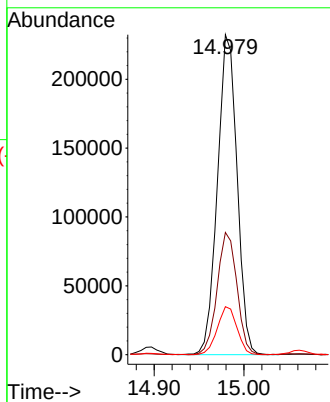
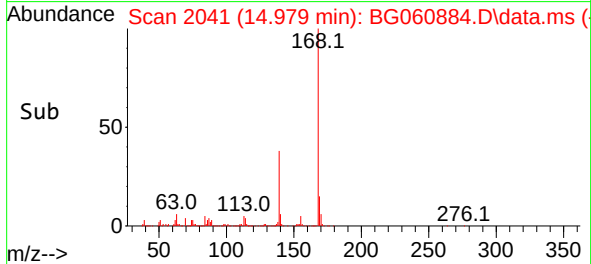
Instrument :
BNA_G
ClientSampleId :
OR-02-041124



Tgt Ion:168 Resp: 352620
Ion Ratio Lower Upper
168 100
139 38.2 30.1 45.1
169 15.0 11.0 16.4

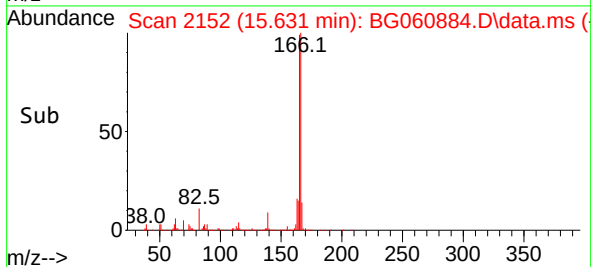
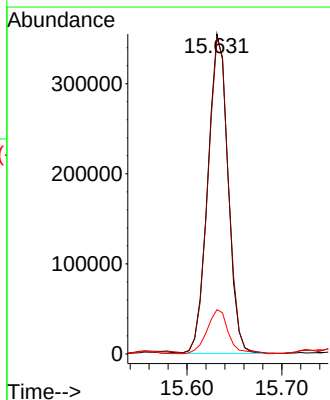
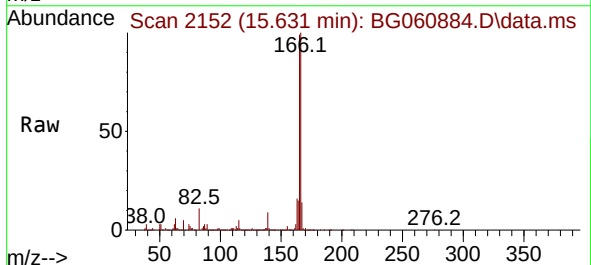
Manual Integrations
APPROVED

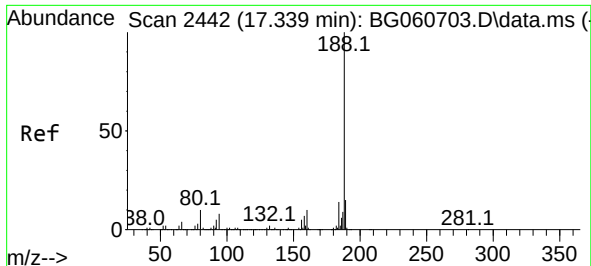
Reviewed By :Yogesh Patel 04/16/2024
Supervised By :mohammad ahmed 04/17/2024



#58
Fluorene
Concen: 40.342 ng
RT: 15.631 min Scan# 2152
Delta R.T. -0.009 min
Lab File: BG060884.D
Acq: 12 Apr 2024 21:47

Tgt Ion:166 Resp: 525216
Ion Ratio Lower Upper
166 100
165 98.8 81.8 122.8
167 13.9 10.9 16.3





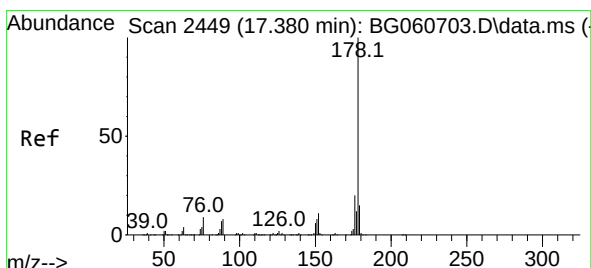
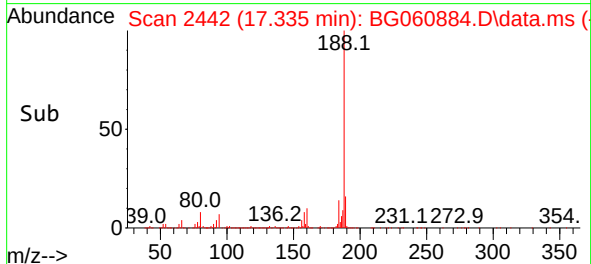
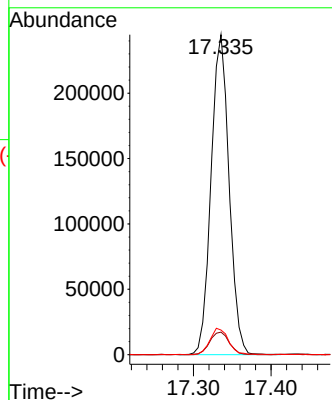
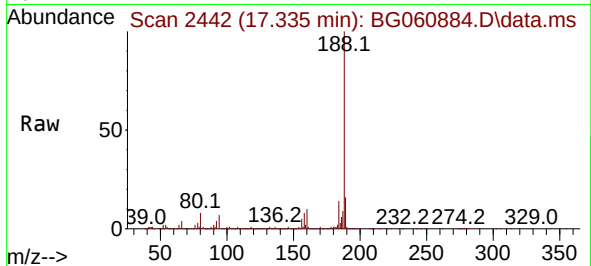
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.335 min Scan# 2442
Delta R.T. -0.003 min
Lab File: BG060884.D
Acq: 12 Apr 2024 21:47

Instrument :
BNA_G
ClientSampleId :
OR-02-041124

Tgt Ion:188 Resp: 395532
Ion Ratio Lower Upper
188 100
94 7.0 6.6 9.8
80 7.7 7.6 11.4

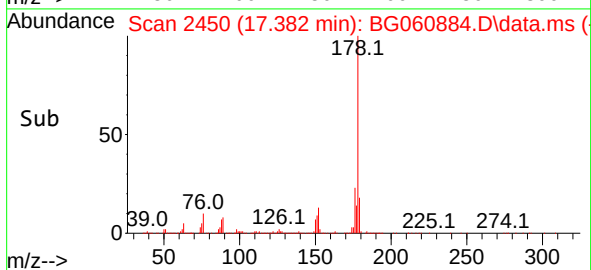
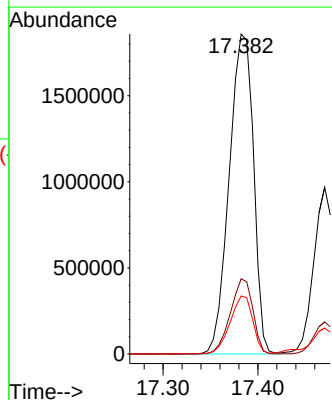
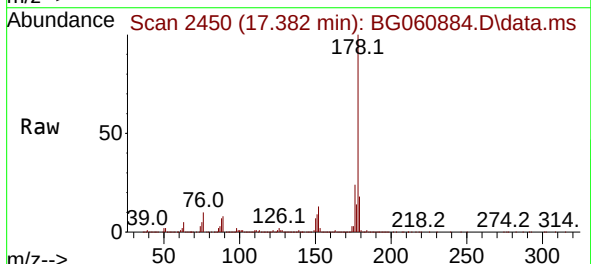
Manual Integrations
APPROVED

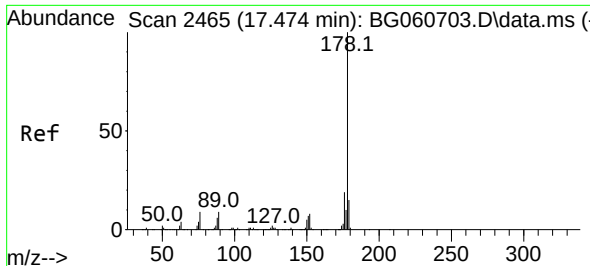
Reviewed By :Yogesh Patel 04/16/2024
Supervised By :mohammad ahmed 04/17/2024



#71
Phenanthrene
Concen: 160.839 ng
RT: 17.382 min Scan# 2450
Delta R.T. 0.003 min
Lab File: BG060884.D
Acq: 12 Apr 2024 21:47

Tgt Ion:178 Resp: 3308591
Ion Ratio Lower Upper
178 100
176 23.5 15.8 23.6
179 18.1 12.2 18.4





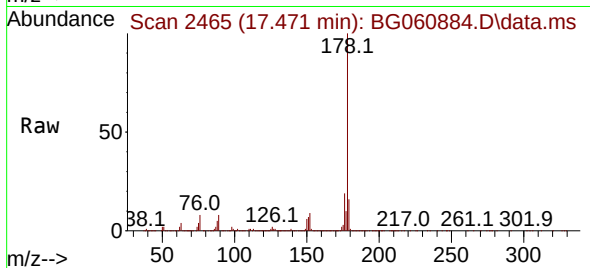
#72
 Anthracene
 Concen: 68.990 ng
 RT: 17.471 min Scan# 2465
 Delta R.T. -0.003 min
 Lab File: BG060884.D
 Acq: 12 Apr 2024 21:47

Instrument :

BNA_G

ClientSampleId :

OR-02-041124



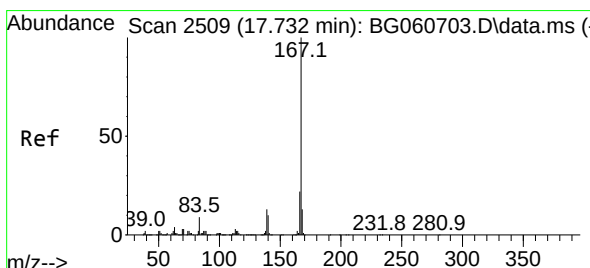
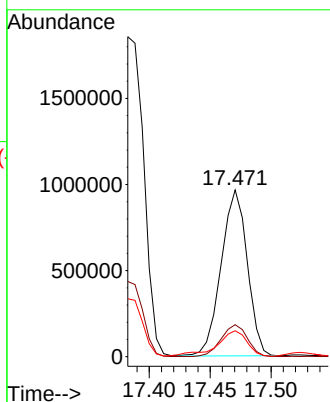
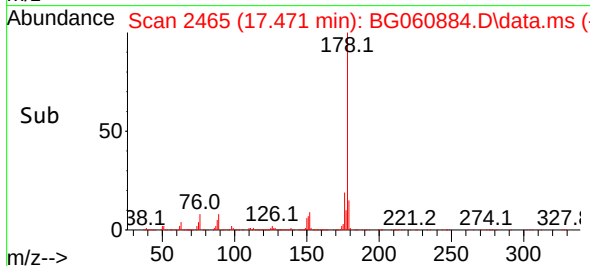
Tgt Ion:178 Resp: 1441268
 Ion Ratio Lower Upper
 178 100
 176 19.2 15.5 23.3
 179 15.5 12.2 18.2

Manual Integrations

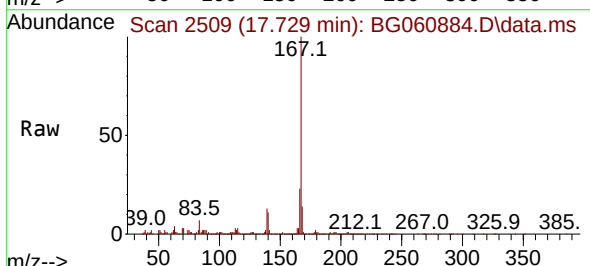
APPROVED

Reviewed By :Yogesh Patel 04/16/2024

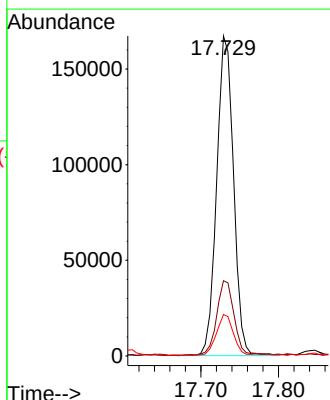
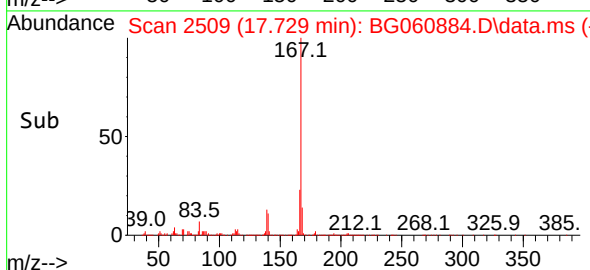
Supervised By :mohammad ahmed 04/17/2024

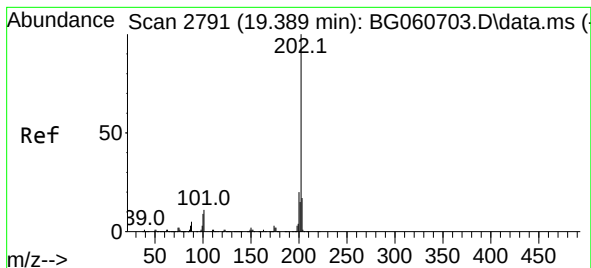


#73
 Carbazole
 Concen: 13.737 ng
 RT: 17.729 min Scan# 2509
 Delta R.T. -0.003 min
 Lab File: BG060884.D
 Acq: 12 Apr 2024 21:47



Tgt Ion:167 Resp: 253023
 Ion Ratio Lower Upper
 167 100
 166 23.5 18.0 27.0
 139 13.0 10.5 15.7





#75

Fluoranthene

Concen: 152.506 ng

RT: 19.404 min Scan# 21

Delta R.T. 0.014 min

Lab File: BG060884.D

Acq: 12 Apr 2024 21:47

Instrument :

BNA_G

ClientSampleId :

OR-02-041124

Tgt Ion:202 Resp: 380678

Ion Ratio Lower Upper

202 100

101 9.9 0.0 30.8

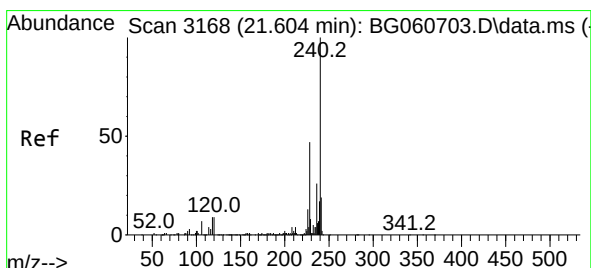
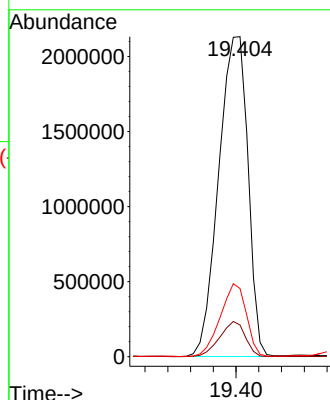
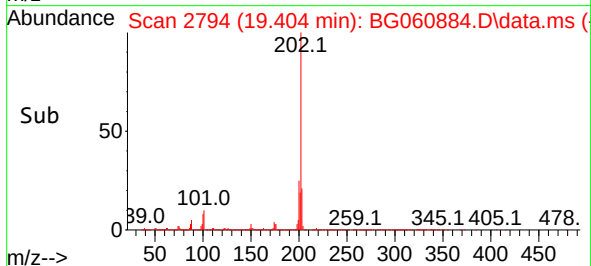
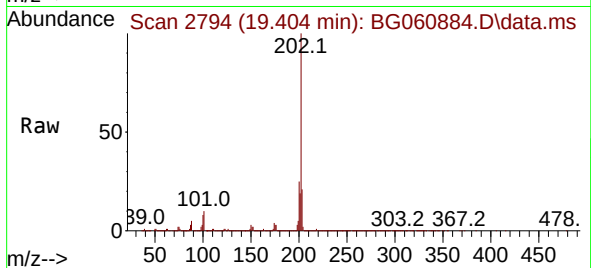
203 21.3 0.0 37.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 04/16/2024

Supervised By :mohammad ahmed 04/17/2024



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.607 min Scan# 3169

Delta R.T. 0.003 min

Lab File: BG060884.D

Acq: 12 Apr 2024 21:47

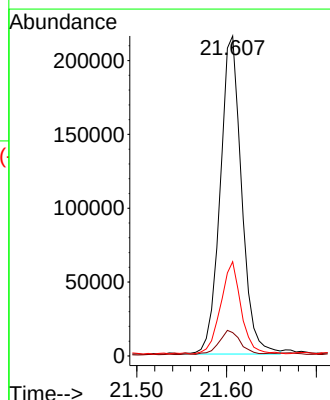
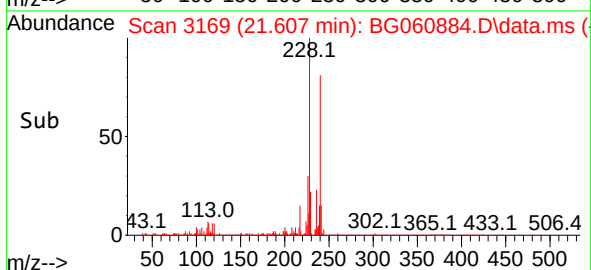
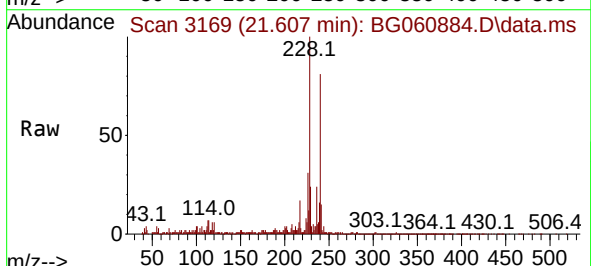
Tgt Ion:240 Resp: 355666

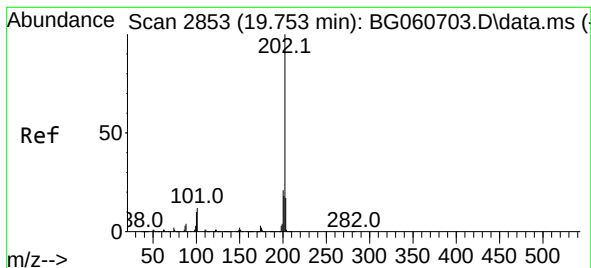
Ion Ratio Lower Upper

240 100

120 7.3 7.1 10.7

236 29.5 20.7 31.1





#78

Pyrene

Concen: 136.615 ng

RT: 19.762 min Scan# 2853

Delta R.T. 0.008 min

Lab File: BG060884.D

Acq: 12 Apr 2024 21:47

Instrument :

BNA_G

ClientSampleId :

OR-02-041124

Tgt Ion:202 Resp: 339823

Ion Ratio Lower Upper

202 100

200 24.3 17.0 25.4

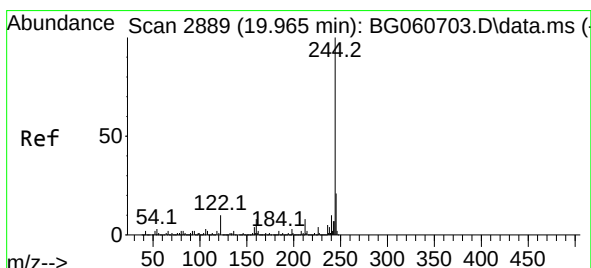
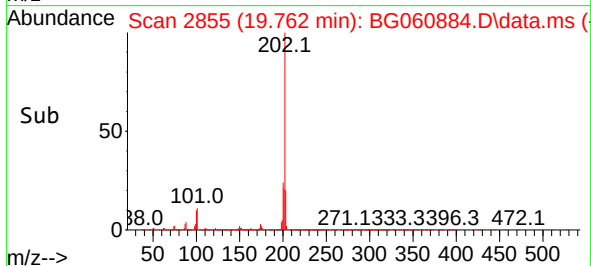
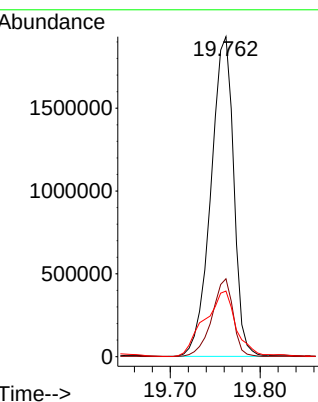
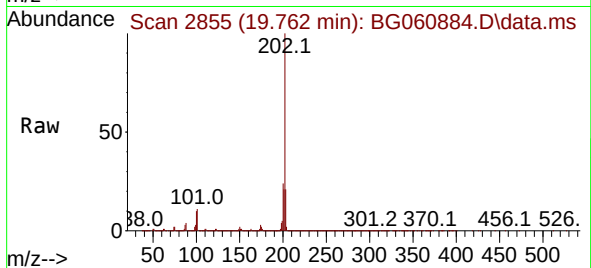
203 20.5 14.0 21.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 04/16/2024

Supervised By :mohammad ahmed 04/17/2024



#79

Terphenyl-d14

Concen: 24.791 ng

RT: 19.956 min Scan# 2888

Delta R.T. -0.009 min

Lab File: BG060884.D

Acq: 12 Apr 2024 21:47

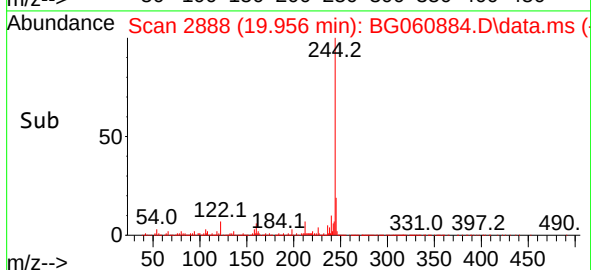
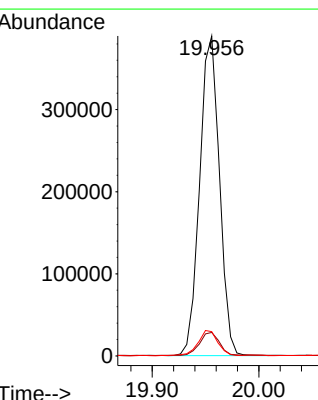
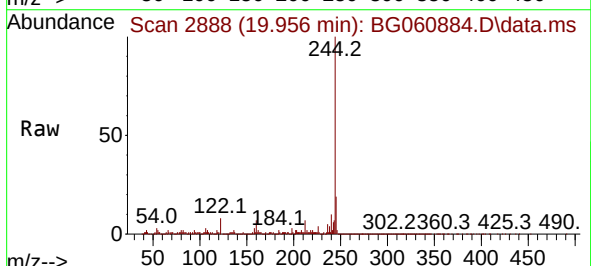
Tgt Ion:244 Resp: 500753

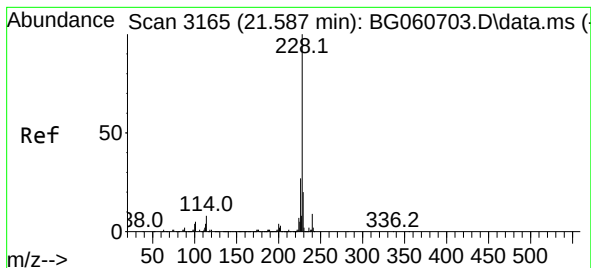
Ion Ratio Lower Upper

244 100

212 7.4 6.2 9.2

122 7.6 7.8 11.8#





#81

Benzo(a)anthracene

Concen: 81.780 ng

RT: 21.589 min Scan# 3166

Delta R.T. 0.003 min

Lab File: BG060884.D

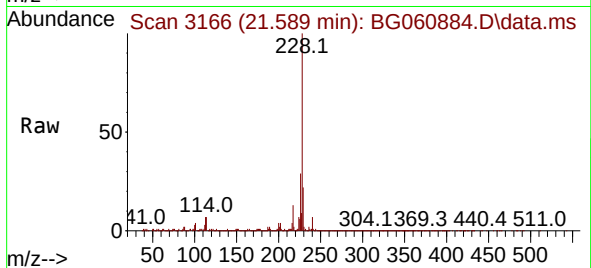
Acq: 12 Apr 2024 21:47

Instrument :

BNA_G

ClientSampleId :

OR-02-041124



Tgt Ion:228 Resp: 205028

Ion Ratio Lower Upper

228 100

226 28.9 21.7 32.5

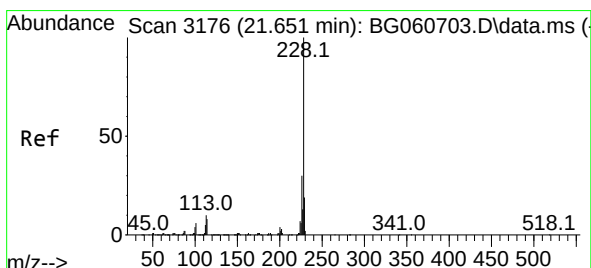
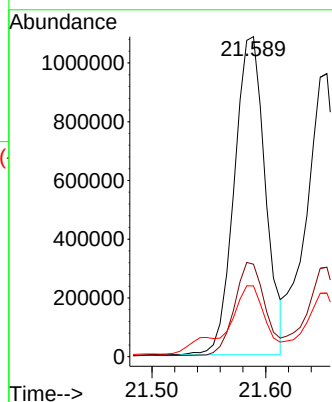
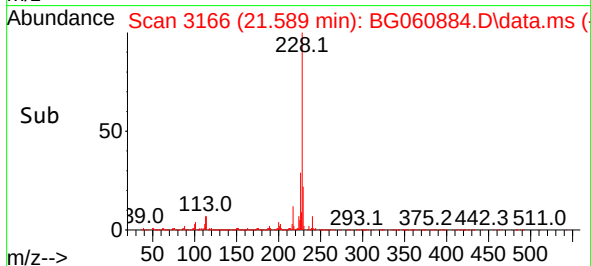
229 22.1 15.8 23.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 04/16/2024

Supervised By :mohammad ahmed 04/17/2024



#83

Chrysene

Concen: 76.058 ng m

RT: 21.654 min Scan# 3177

Delta R.T. 0.003 min

Lab File: BG060884.D

Acq: 12 Apr 2024 21:47

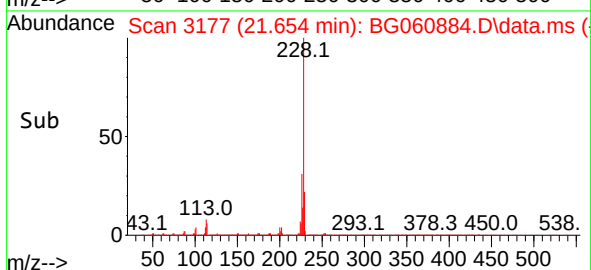
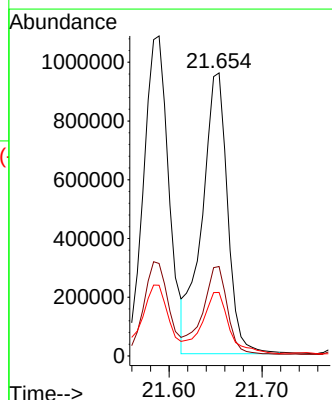
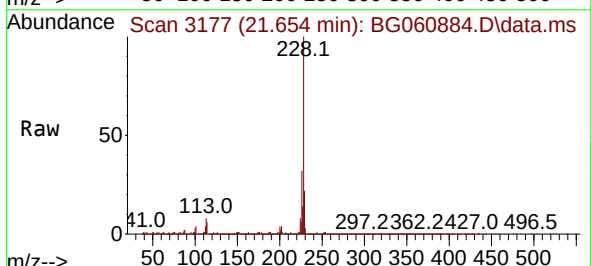
Tgt Ion:228 Resp: 1837901

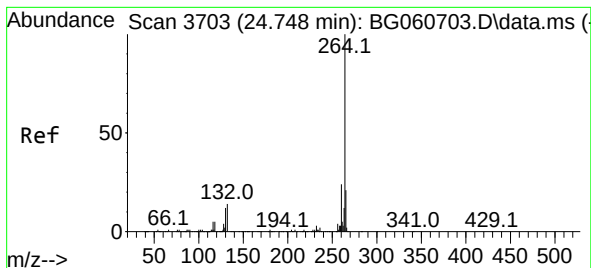
Ion Ratio Lower Upper

228 100

226 31.6 24.2 36.4

229 22.4 15.5 23.3





#86

Perylene-d12

Concen: 20.000 ng m

RT: 24.750 min Scan# 31

Delta R.T. 0.003 min

Lab File: BG060884.D

Acq: 12 Apr 2024 21:47

Instrument :

BNA_G

ClientSampleId :

OR-02-041124

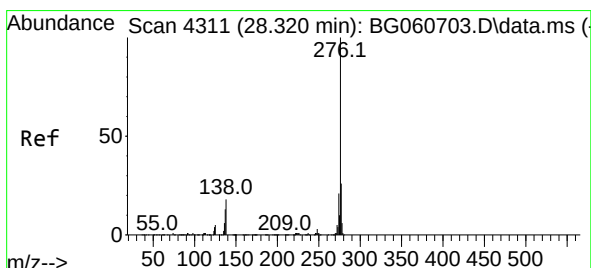
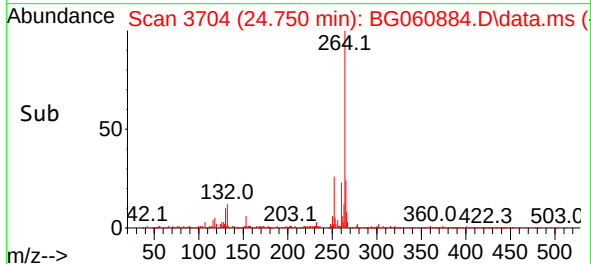
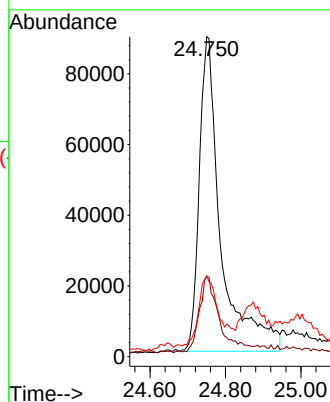
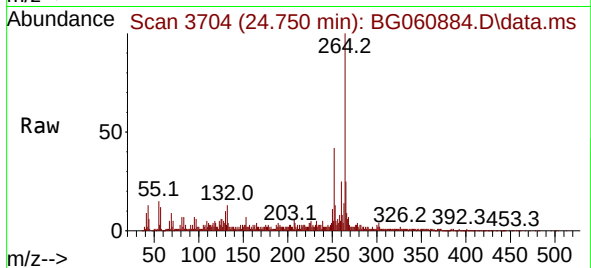
Tgt Ion:264 Resp: 354478
 Ion Ratio Lower Upper
 264 100
 260 25.0 19.5 29.3
 265 25.3 16.9 25.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 04/16/2024

Supervised By :mohammad ahmed 04/17/2024



#87

Indeno(1,2,3-cd)pyrene

Concen: 18.973 ng m

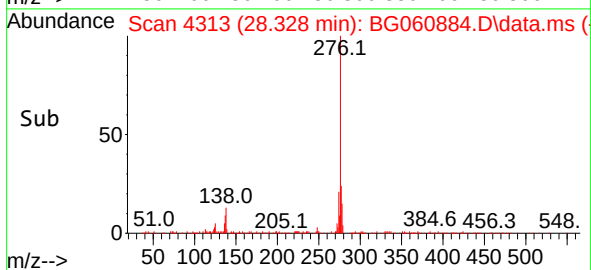
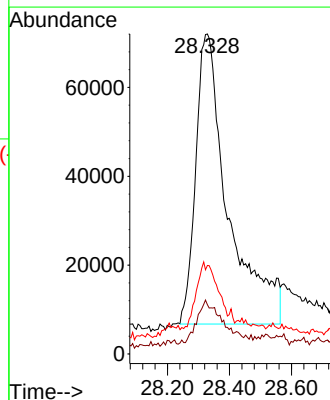
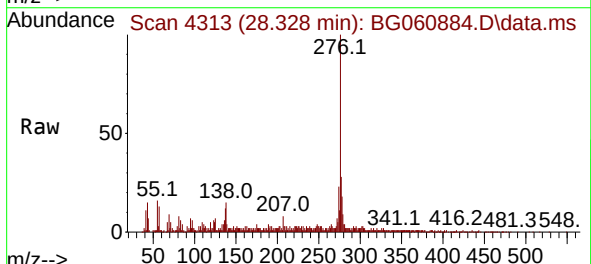
RT: 28.328 min Scan# 4313

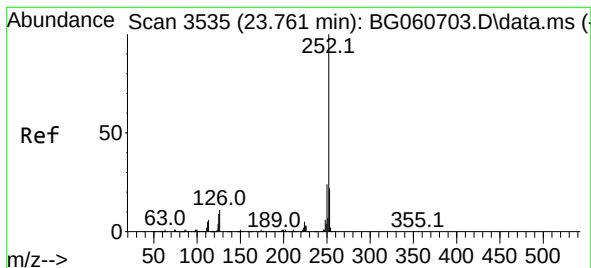
Delta R.T. 0.008 min

Lab File: BG060884.D

Acq: 12 Apr 2024 21:47

Tgt Ion:276 Resp: 473622
 Ion Ratio Lower Upper
 276 100
 138 10.4 12.4 18.6#
 277 16.4 20.2 30.2#





#88

Benzo(b)fluoranthene

Concen: 89.674 ng

RT: 23.769 min Scan# 3535

Delta R.T. 0.008 min

Lab File: BG060884.D

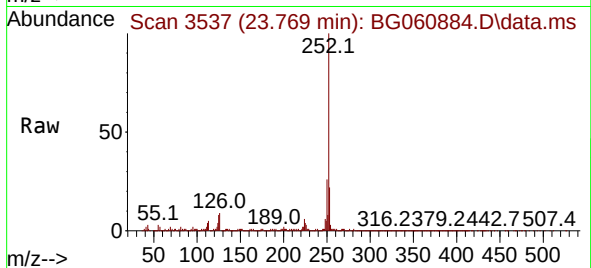
Acq: 12 Apr 2024 21:47

Instrument :

BNA_G

ClientSampleId :

OR-02-041124



Tgt Ion:252 Resp: 182619

Ion Ratio Lower Upper

252 100

253 22.2 17.8 26.8

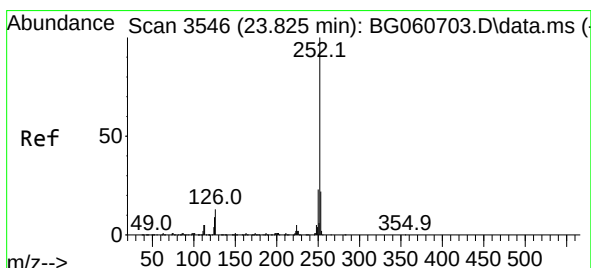
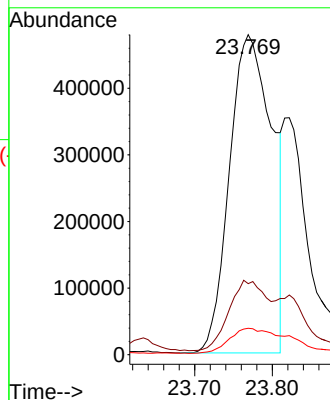
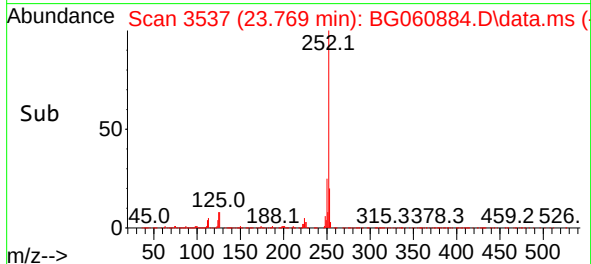
125 8.3 7.1 10.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 04/16/2024

Supervised By :mohammad ahmed 04/17/2024



#89

Benzo(k)fluoranthene

Concen: 32.874 ng m

RT: 23.822 min Scan# 3546

Delta R.T. -0.003 min

Lab File: BG060884.D

Acq: 12 Apr 2024 21:47

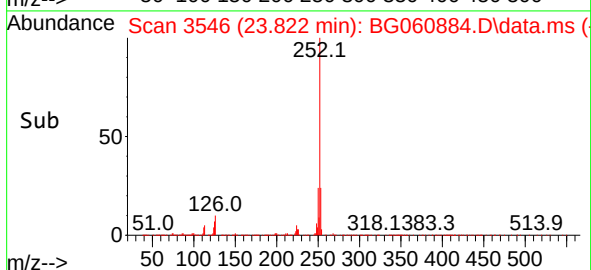
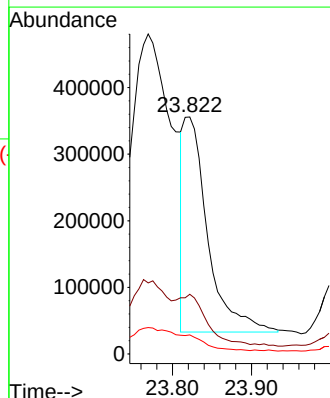
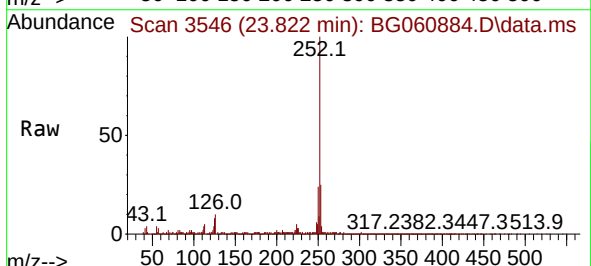
Tgt Ion:252 Resp: 685235

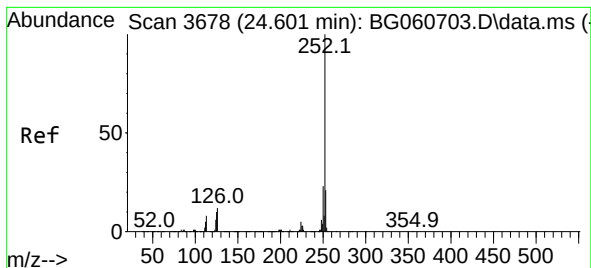
Ion Ratio Lower Upper

252 100

253 25.2 17.6 26.4

125 8.0 7.5 11.3





#90

Benzo(a)pyrene

Concen: 62.237 ng m

RT: 24.609 min Scan# 3

Delta R.T. 0.008 min

Lab File: BG060884.D

Acq: 12 Apr 2024 21:47

Instrument :

BNA_G

ClientSampleId :

OR-02-041124

Tgt Ion:252 Resp: 1231699

Ion Ratio Lower Upper

252 100

253 23.2 16.8 25.2

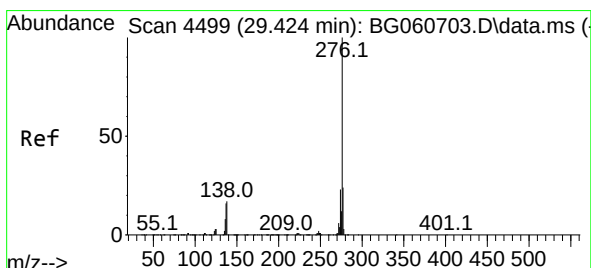
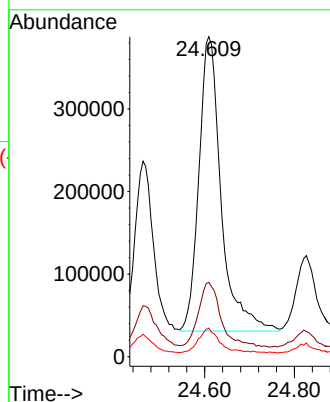
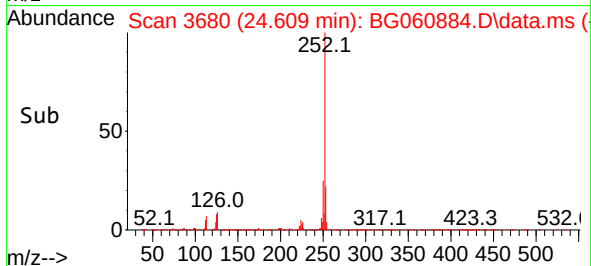
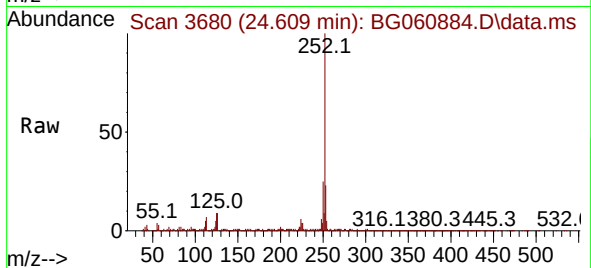
125 9.0 7.6 11.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 04/16/2024

Supervised By :mohammad ahmed 04/17/2024



#92

Benzo(g,h,i)perylene

Concen: 19.532 ng m

RT: 29.427 min Scan# 4500

Delta R.T. 0.003 min

Lab File: BG060884.D

Acq: 12 Apr 2024 21:47

Tgt Ion:276 Resp: 399824

Ion Ratio Lower Upper

276 100

277 26.0 18.9 28.3

138 19.2 14.0 21.0

