

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG062823\
 Data File : BG057899.D
 Acq On : 28 Jun 2023 19:24
 Operator : CG/JU
 Sample : 03366-01DL 5X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SB37DL

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 06/29/2023
 Supervised By :mohammad ahmed 06/29/2023

Quant Time: Jun 28 20:09:59 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG062723.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 28 01:12:33 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.924	152	63331	20.000	ng	0.00
21) Naphthalene-d8	10.726	136	262192	20.000	ng	0.00
39) Acenaphthene-d10	14.557	164	159772	20.000	ng	0.00
64) Phenanthrene-d10	17.307	188	334957	20.000	ng	0.00
76) Chrysene-d12	21.560	240	267460	20.000	ng	0.00
86) Perylene-d12	24.721	264	251287	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.497	112	97941	23.661	ng	0.00
7) Phenol-d6	7.083	99	139021	22.460	ng	0.00
23) Nitrobenzene-d5	9.081	82	80424	15.033	ng	0.00
42) 2,4,6-Tribromophenol	16.043	330	52668	19.626	ng	0.00
45) 2-Fluorobiphenyl	13.182	172	167109	15.961	ng	0.00
79) Terphenyl-d14	19.915	244	205161	13.984	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.779	128	112479	8.037	ng	99
37) 2-Methylnaphthalene	12.383	142	26020	2.522	ng	98
52) Acenaphthene	14.622	154	97501	11.388	ng	99
55) Dibenzofuran	14.956	168	70584	4.806	ng	99
58) Fluorene	15.603	166	93919	7.923	ng	99
71) Phenanthrene	17.348	178	877911	54.600	ng	100
72) Anthracene	17.436	178	243743	14.698	ng	100
73) Carbazole	17.706	167	161803	10.262	ng	99
75) Fluoranthene	19.363	202	1164956	57.511	ng	96
78) Pyrene	19.721	202	999700	52.347	ng	99
81) Benzo(a)anthracene	21.543	228	642556	34.716	ng	98
83) Chrysene	21.607	228	621432	35.470	ng	97
87) Indeno(1,2,3-cd)pyrene	28.306	276	145229	8.724	ng	# 76
88) Benzo(b)fluoranthene	23.723	252	563646	41.125	ng	94
89) Benzo(k)fluoranthene	23.781	252	295293m	21.318	ng	
90) Benzo(a)pyrene	24.569	252	475882	35.051	ng	95
91) Dibenzo(a,h)anthracene	28.382	278	38064	2.756	ng	# 78
92) Benzo(g,h,i)perylene	29.439	276	99788	7.271	ng	93

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

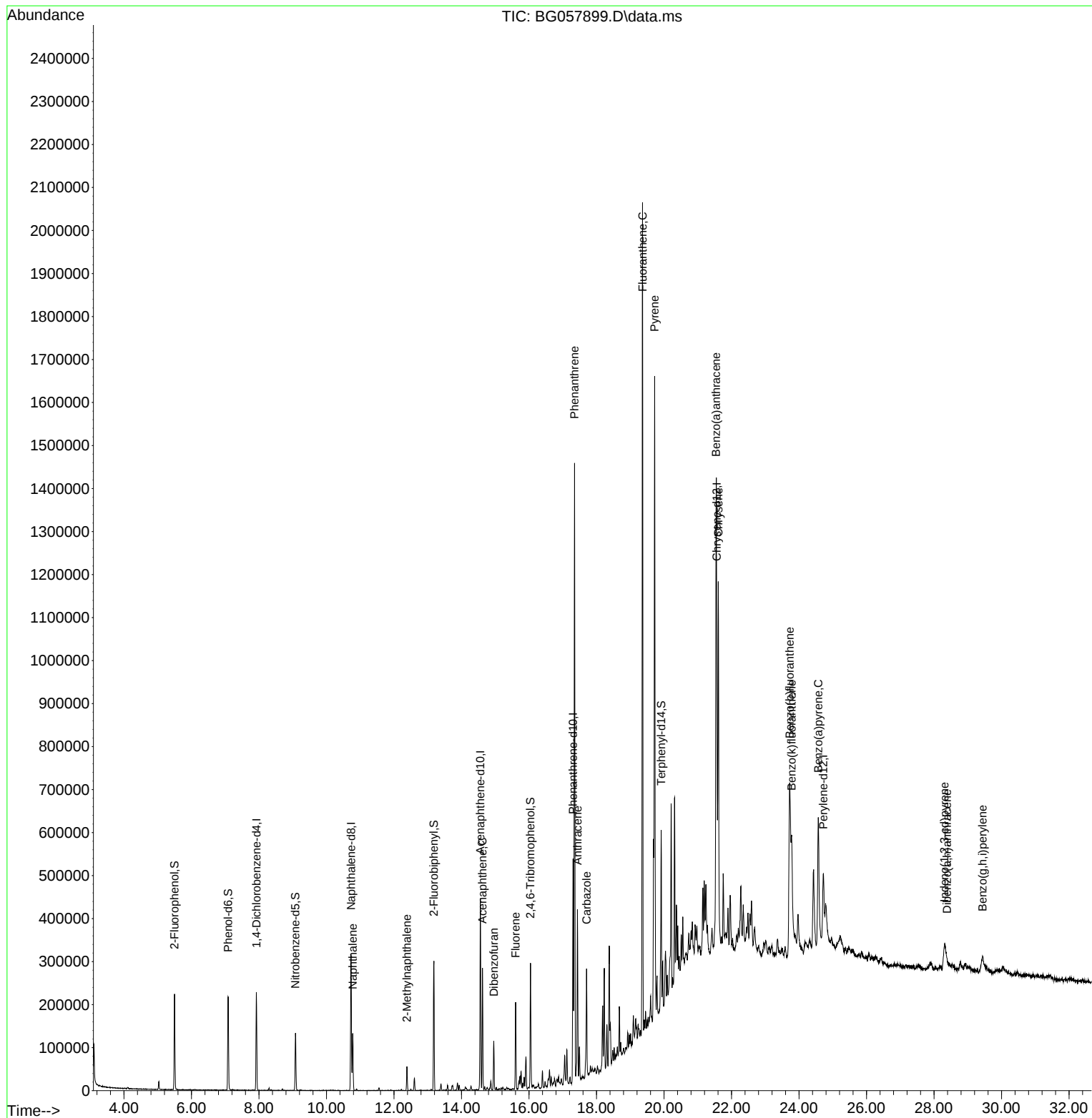
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG062823\
Data File : BG057899.D
Acq On : 28 Jun 2023 19:24
Operator : CG/JU
Sample : 03366-01DL 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

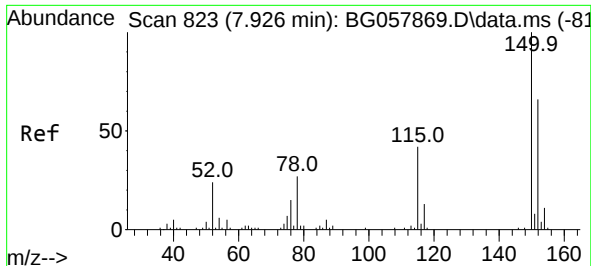
Instrument :
BNA_G
ClientSampleId :
SB37DL

Quant Time: Jun 28 20:09:59 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG062723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 28 01:12:33 2023
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/29/2023
Supervised By :mohammad ahmed 06/29/2023





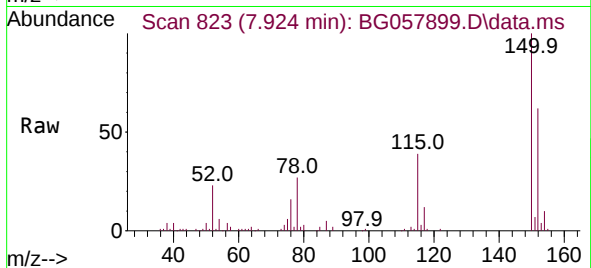
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.924 min Scan# 81
Delta R.T. -0.002 min
Lab File: BG057899.D
Acq: 28 Jun 2023 19:24

Instrument :

BNA_G

ClientSampleId :

SB37DL

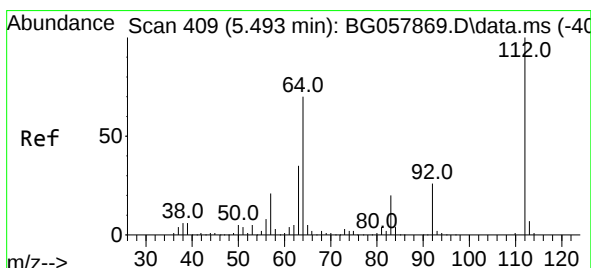
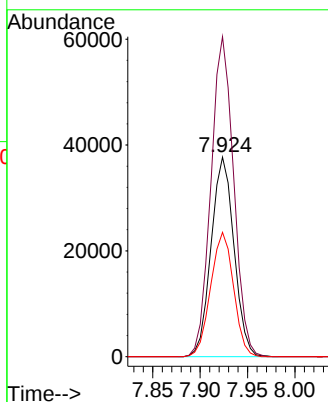
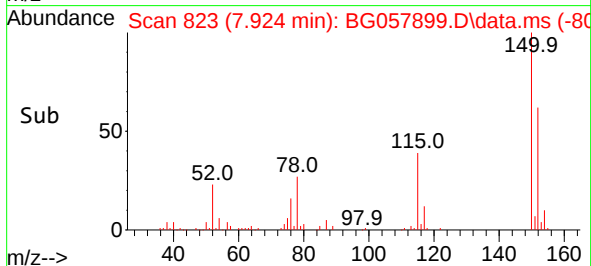


Tgt Ion:152 Resp: 6333
Ion Ratio Lower Upper
152 100
150 160.4 122.0 183.0
115 62.3 50.7 76.1

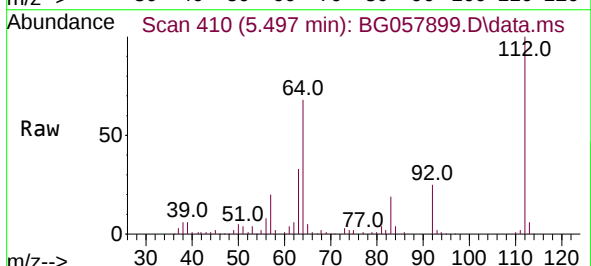
Manual Integrations

APPROVED

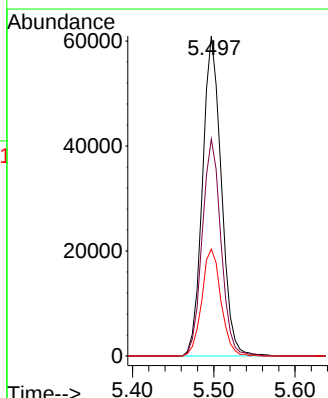
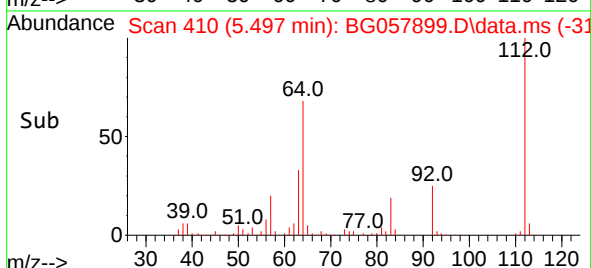
Reviewed By :Yogesh Patel 06/29/2023
Supervised By :mohammad ahmed 06/29/2023

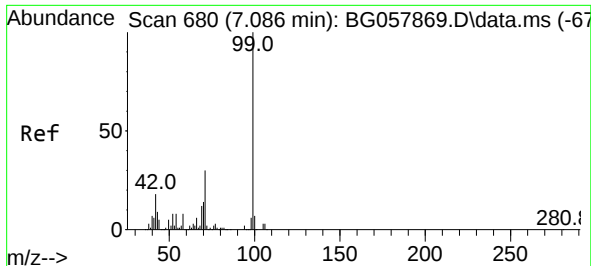


#5
2-Fluorophenol
Concen: 23.661 ng
RT: 5.497 min Scan# 410
Delta R.T. 0.004 min
Lab File: BG057899.D
Acq: 28 Jun 2023 19:24



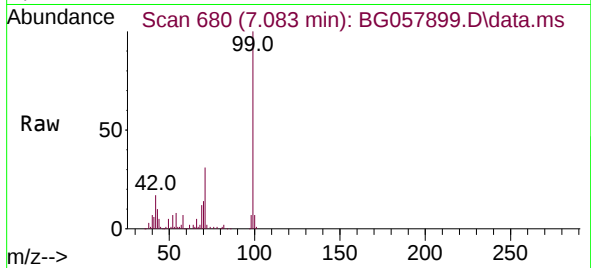
Tgt Ion:112 Resp: 97941
Ion Ratio Lower Upper
112 100
64 67.8 55.8 83.6
63 33.4 27.9 41.9





#7
Phenol-d6
Concen: 22.460 ng
RT: 7.083 min Scan# 61
Delta R.T. -0.002 min
Lab File: BG057899.D
Acq: 28 Jun 2023 19:24

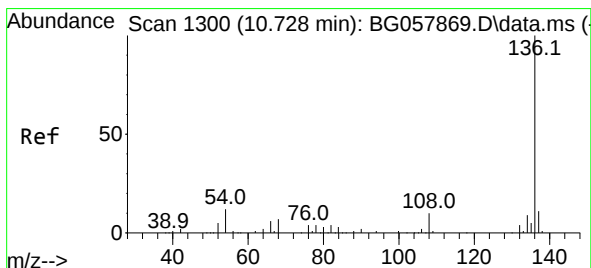
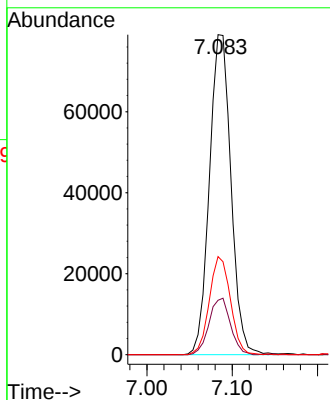
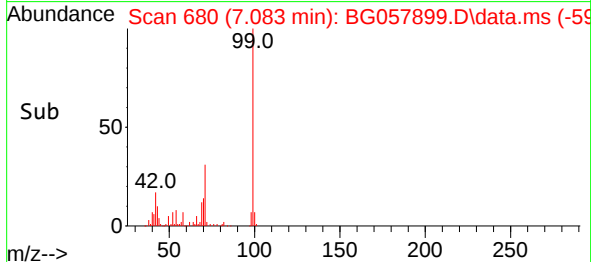
Instrument :
BNA_G
ClientSampleId :
SB37DL



Tgt Ion: 99 Resp: 13902
Ion Ratio Lower Upper
99 100
42 17.0 14.2 21.4
71 30.7 23.9 35.9

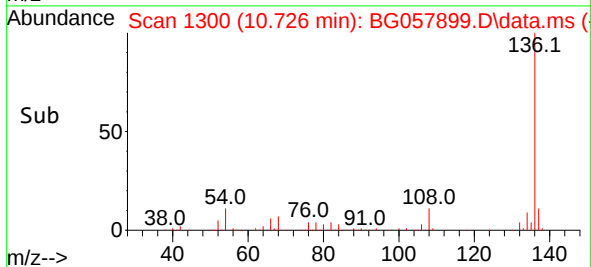
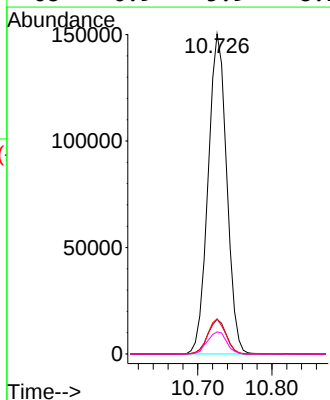
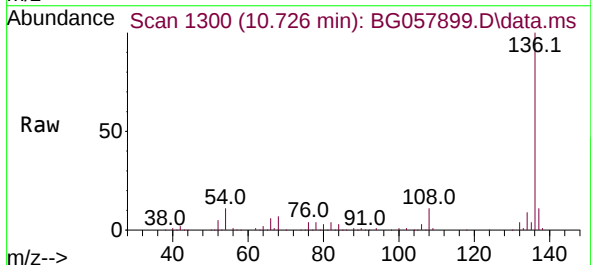
Manual Integrations
APPROVED

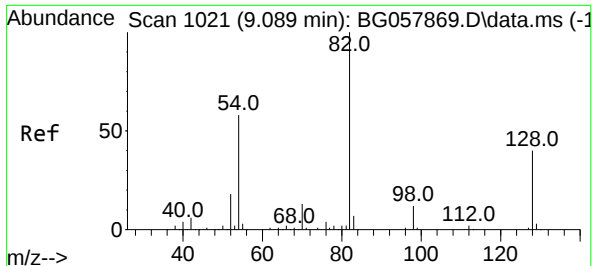
Reviewed By :Yogesh Patel 06/29/2023
Supervised By :mohammad ahmed 06/29/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.726 min Scan# 1300
Delta R.T. -0.002 min
Lab File: BG057899.D
Acq: 28 Jun 2023 19:24

Tgt Ion:136 Resp: 262192
Ion Ratio Lower Upper
136 100
137 10.8 8.6 12.8
54 11.0 9.3 13.9
68 6.9 5.9 8.9





#23

Nitrobenzene-d5

Concen: 15.033 ng

RT: 9.081 min Scan# 1021

Delta R.T. -0.008 min

Lab File: BG057899.D

Acq: 28 Jun 2023 19:24

Instrument :

BNA_G

ClientSampleId :

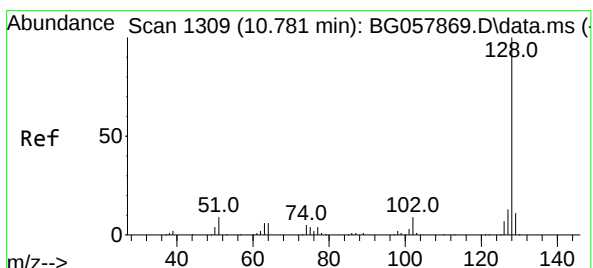
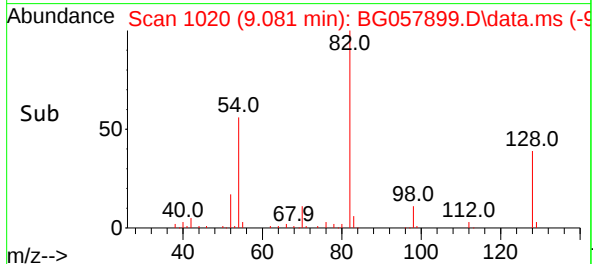
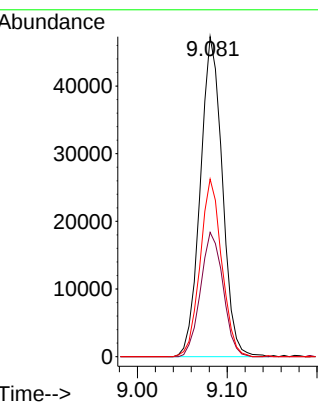
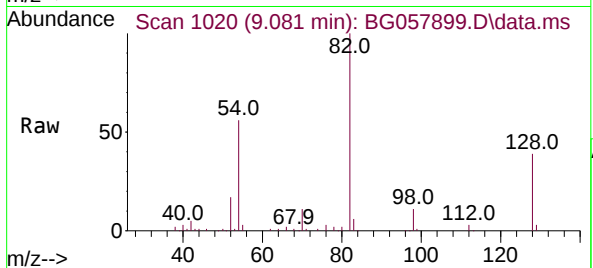
SB37DL

Tgt Ion: 82 Resp: 80424
 Ion Ratio Lower Upper
 82 100
 128 38.9 32.2 48.4
 54 55.5 46.1 69.1

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/29/2023
 Supervised By :mohammad ahmed 06/29/2023



#31

Naphthalene

Concen: 8.037 ng

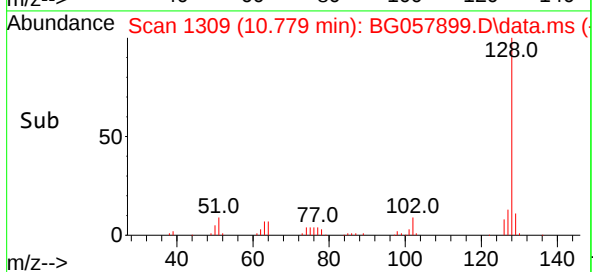
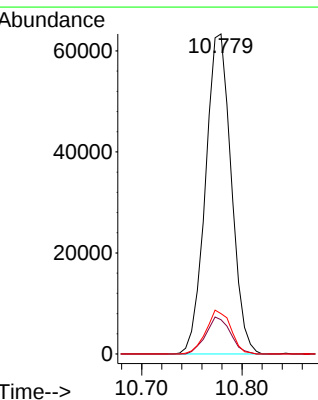
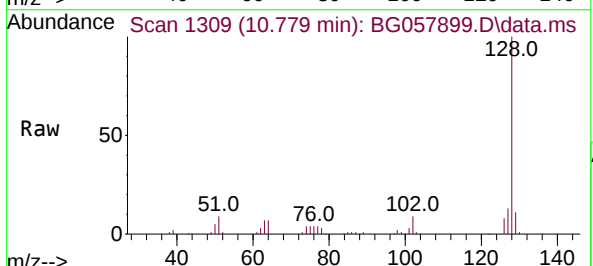
RT: 10.779 min Scan# 1309

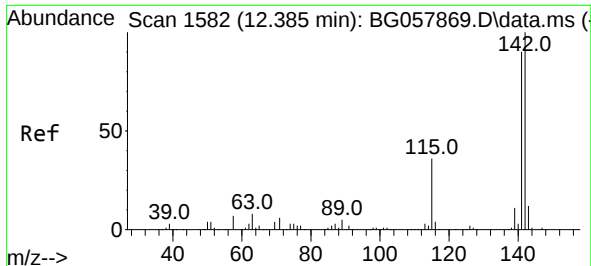
Delta R.T. -0.002 min

Lab File: BG057899.D

Acq: 28 Jun 2023 19:24

Tgt Ion:128 Resp: 112479
 Ion Ratio Lower Upper
 128 100
 129 10.7 8.5 12.7
 127 12.6 10.3 15.5





#37

2-Methylnaphthalene

Concen: 2.522 ng

RT: 12.383 min Scan# 1582

Delta R.T. -0.002 min

Lab File: BG057899.D

Acq: 28 Jun 2023 19:24

Instrument :

BNA_G

ClientSampleId :

SB37DL

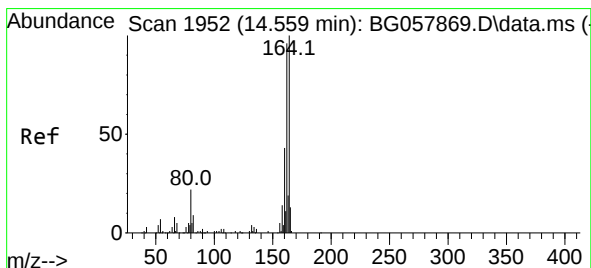
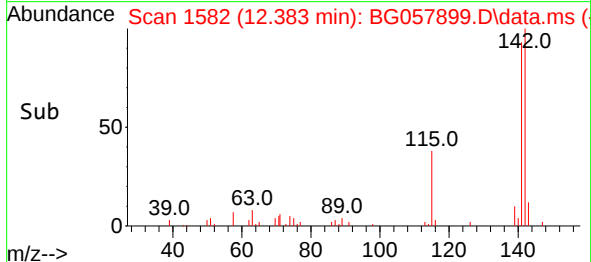
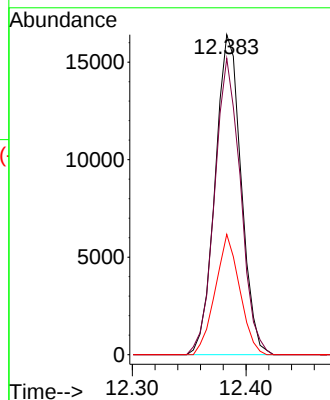
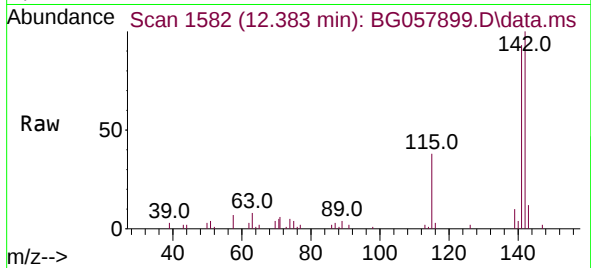
Tgt Ion:142	Resp:	26020
Ion Ratio	Lower	Upper
142	100	
141	92.6	72.4 108.6
115	37.6	28.6 42.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/29/2023

Supervised By :mohammad ahmed 06/29/2023



#39

Acenaphthene-d10

Concen: 20.000 ng

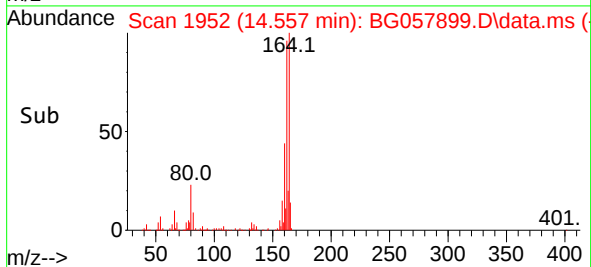
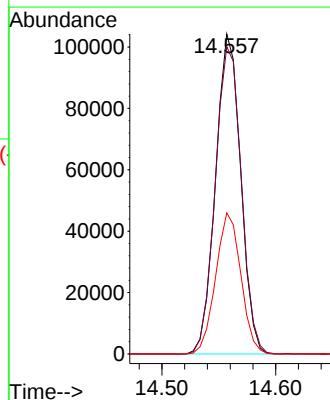
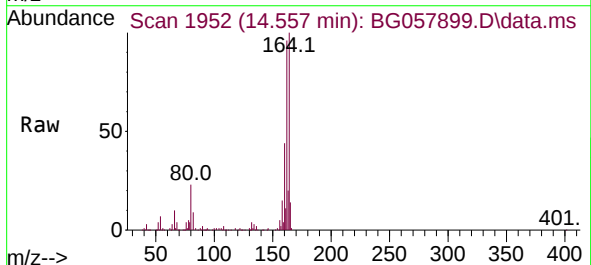
RT: 14.557 min Scan# 1952

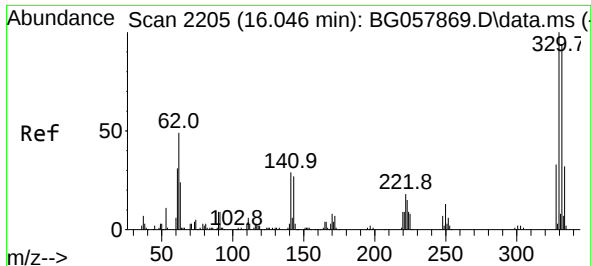
Delta R.T. -0.002 min

Lab File: BG057899.D

Acq: 28 Jun 2023 19:24

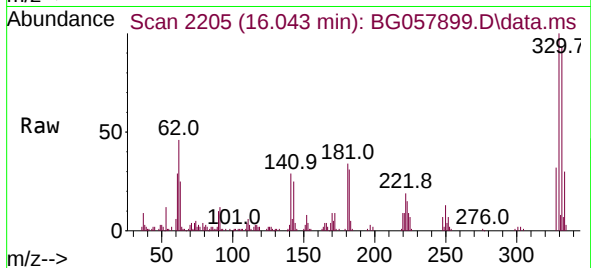
Tgt Ion:164	Resp:	159772
Ion Ratio	Lower	Upper
164	100	
162	96.0	76.4 114.6
160	44.1	34.2 51.2





#42
2,4,6-Tribromophenol
Concen: 19.626 ng
RT: 16.043 min Scan# 21
Delta R.T. -0.002 min
Lab File: BG057899.D
Acq: 28 Jun 2023 19:24

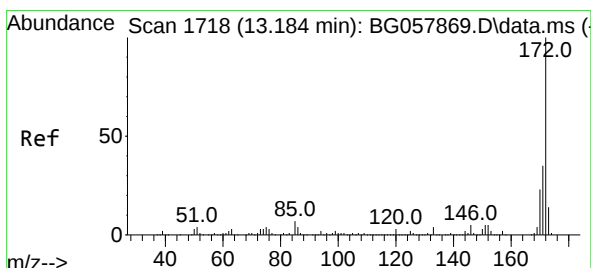
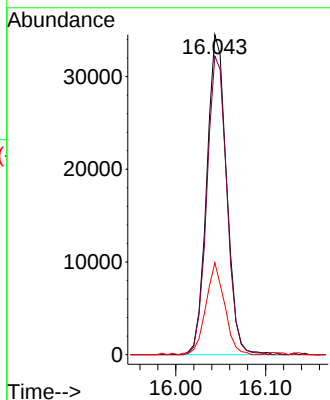
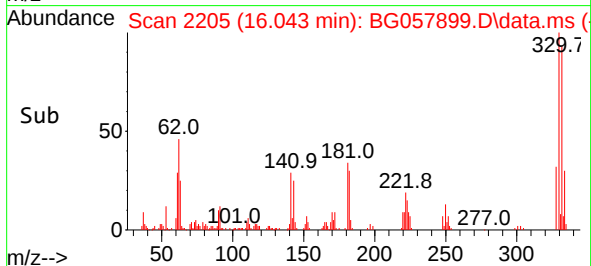
Instrument :
BNA_G
ClientSampleId :
SB37DL



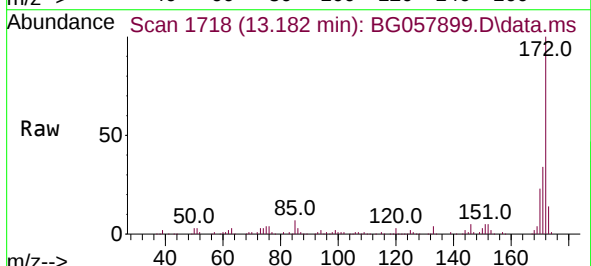
Tgt Ion:330 Resp: 5266
Ion Ratio Lower Upper
330 100
332 94.2 77.1 115.7
141 27.2 22.2 33.4

Manual Integrations
APPROVED

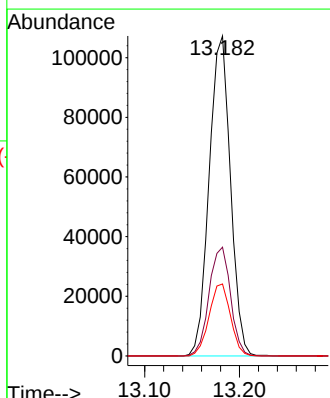
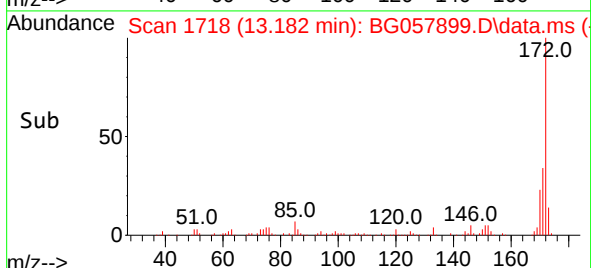
Reviewed By :Yogesh Patel 06/29/2023
Supervised By :mohammad ahmed 06/29/2023

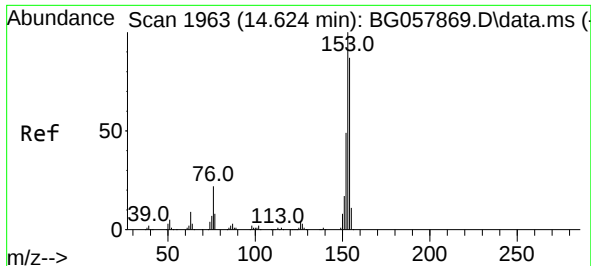


#45
2-Fluorobiphenyl
Concen: 15.961 ng
RT: 13.182 min Scan# 1718
Delta R.T. -0.002 min
Lab File: BG057899.D
Acq: 28 Jun 2023 19:24



Tgt Ion:172 Resp: 167109
Ion Ratio Lower Upper
172 100
171 34.0 27.8 41.8
170 22.5 18.6 27.8





#52
Acenaphthene
Concen: 11.388 ng
RT: 14.622 min Scan# 1963
Delta R.T. -0.002 min
Lab File: BG057899.D
Acq: 28 Jun 2023 19:24

Instrument :

BNA_G

ClientSampleId :

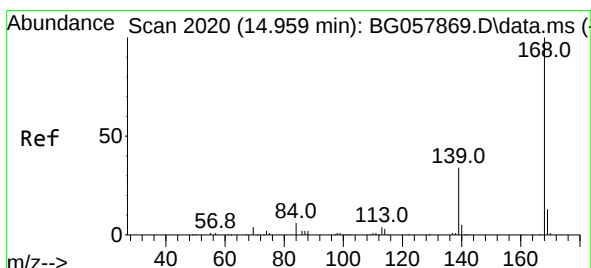
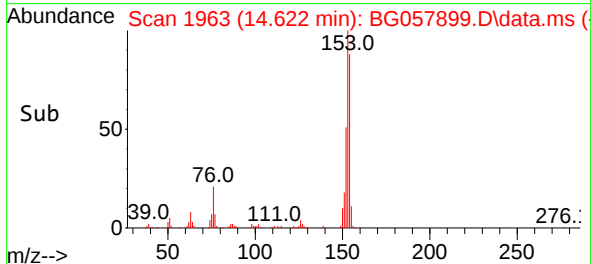
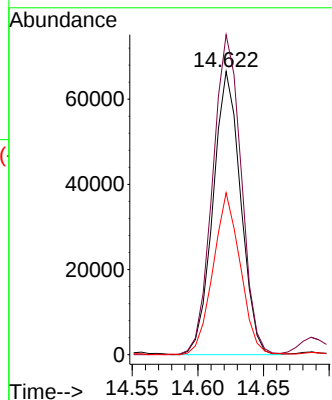
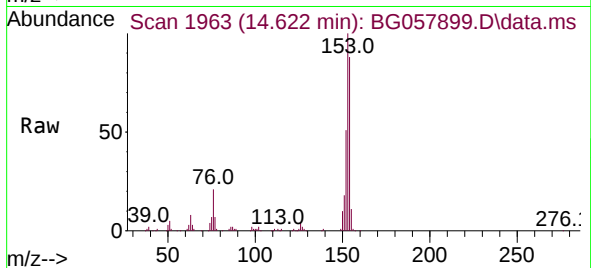
SB37DL

Tgt Ion:154 Resp: 9750
Ion Ratio Lower Upper
154 100
153 113.0 91.5 137.3
152 57.2 44.6 67.0

Manual Integrations

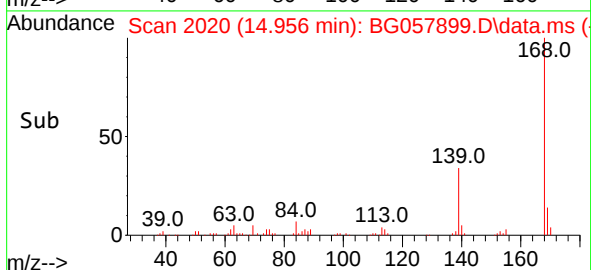
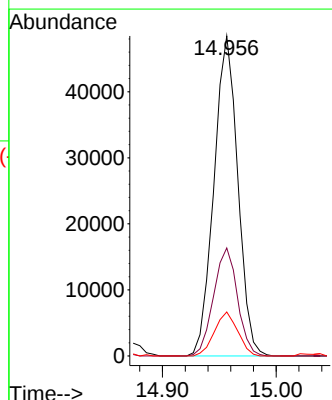
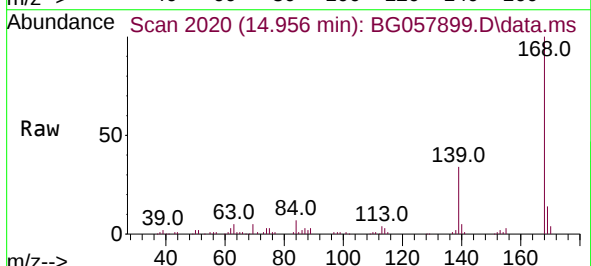
APPROVED

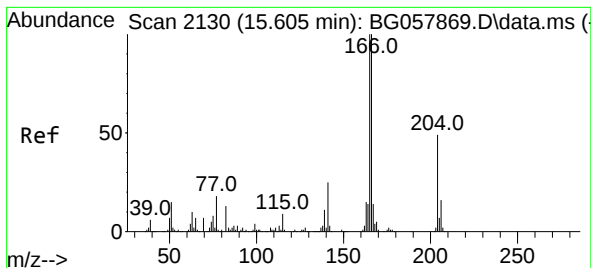
Reviewed By :Yogesh Patel 06/29/2023
Supervised By :mohammad ahmed 06/29/2023



#55
Dibenzofuran
Concen: 4.806 ng
RT: 14.956 min Scan# 2020
Delta R.T. -0.002 min
Lab File: BG057899.D
Acq: 28 Jun 2023 19:24

Tgt Ion:168 Resp: 70584
Ion Ratio Lower Upper
168 100
139 33.8 27.3 40.9
169 13.7 10.3 15.5





#58

Fluorene

Concen: 7.923 ng

RT: 15.603 min Scan# 2130

Delta R.T. -0.002 min

Lab File: BG057899.D

Acq: 28 Jun 2023 19:24

Instrument :

BNA_G

ClientSampleId :

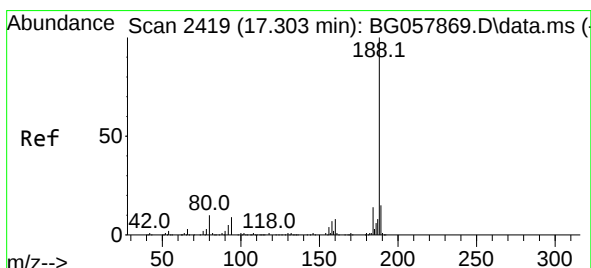
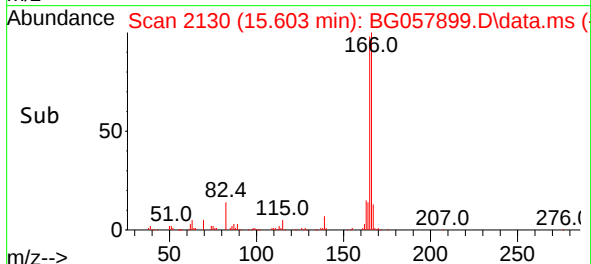
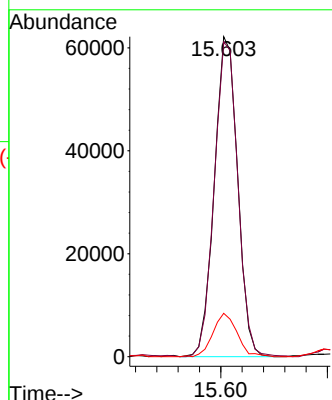
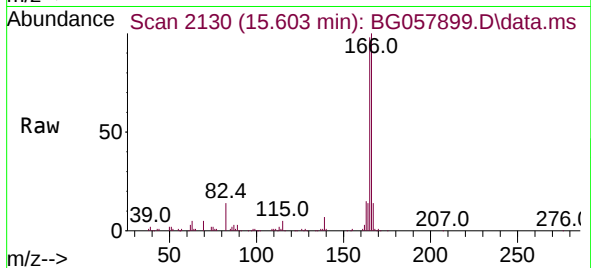
SB37DL

Tgt Ion:166	Resp:	93919
Ion Ratio	Lower	Upper
166	100	
165	98.4	80.0 120.0
167	13.6	11.0 16.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/29/2023
Supervised By :mohammad ahmed 06/29/2023



#64

Phenanthrene-d10

Concen: 20.000 ng

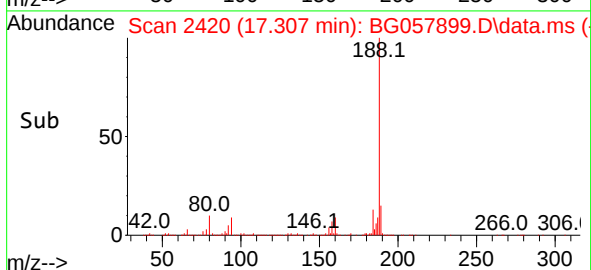
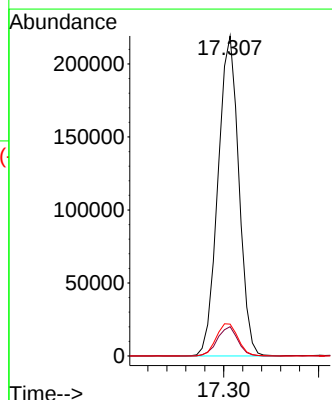
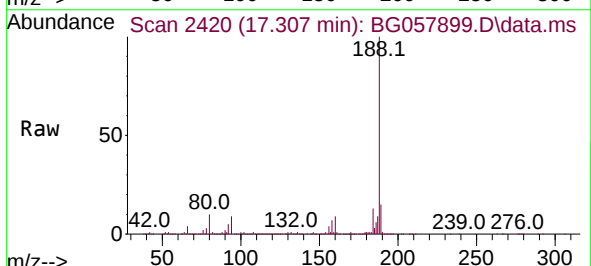
RT: 17.307 min Scan# 2420

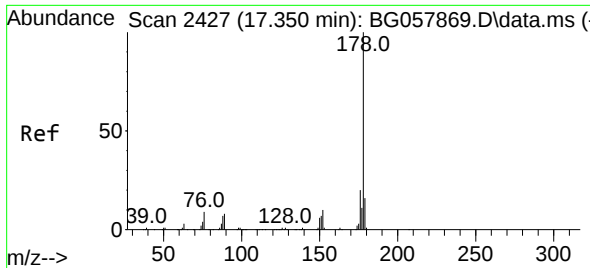
Delta R.T. 0.004 min

Lab File: BG057899.D

Acq: 28 Jun 2023 19:24

Tgt Ion:188	Resp:	334957
Ion Ratio	Lower	Upper
188	100	
94	9.1	7.2 10.8
80	10.0	8.4 12.6





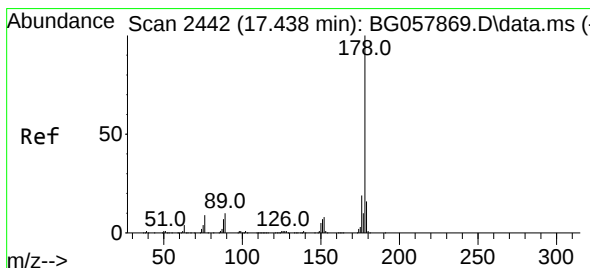
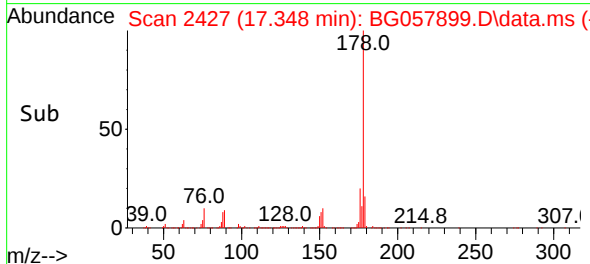
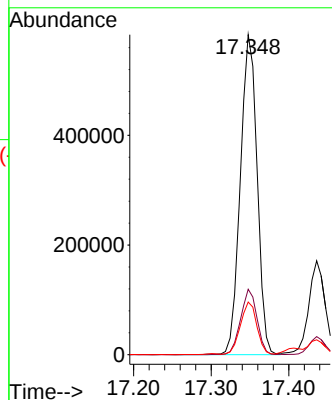
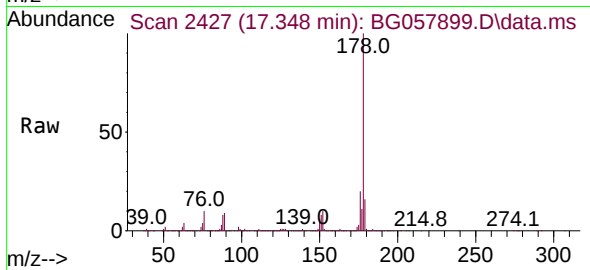
#71
Phenanthrene
Concen: 54.600 ng
RT: 17.348 min Scan# 2427
Delta R.T. -0.002 min
Lab File: BG057899.D
Acq: 28 Jun 2023 19:24

Instrument :
BNA_G
ClientSampleId :
SB37DL

Tgt Ion:178 Resp: 87791
Ion Ratio Lower Upper
178 100
176 20.4 16.3 24.5
179 16.4 13.2 19.8

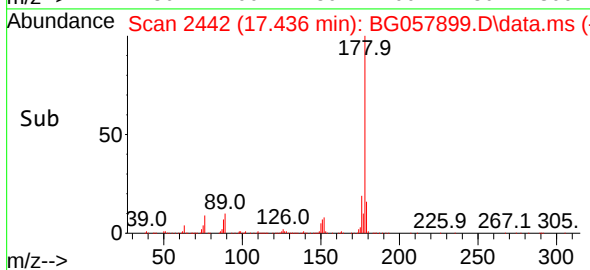
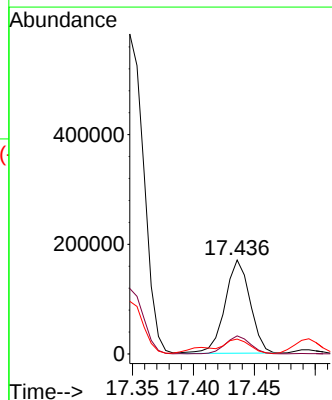
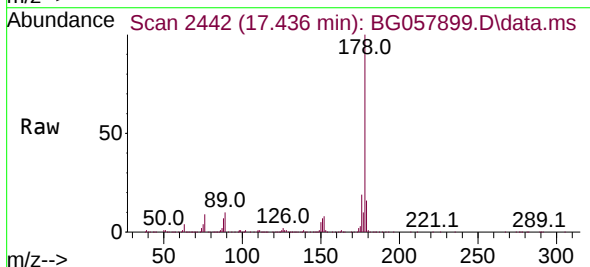
Manual Integrations
APPROVED

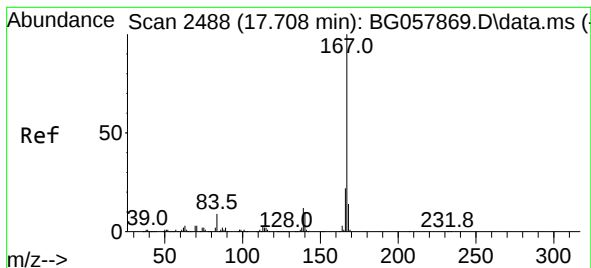
Reviewed By :Yogesh Patel 06/29/2023
Supervised By :mohammad ahmed 06/29/2023



#72
Anthracene
Concen: 14.698 ng
RT: 17.436 min Scan# 2442
Delta R.T. -0.002 min
Lab File: BG057899.D
Acq: 28 Jun 2023 19:24

Tgt Ion:178 Resp: 243743
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.0
179 15.8 12.9 19.3





#73

Carbazole

Concen: 10.262 ng

RT: 17.706 min Scan# 2488

Delta R.T. -0.002 min

Lab File: BG057899.D

Acq: 28 Jun 2023 19:24

Instrument :

BNA_G

ClientSampleId :

SB37DL

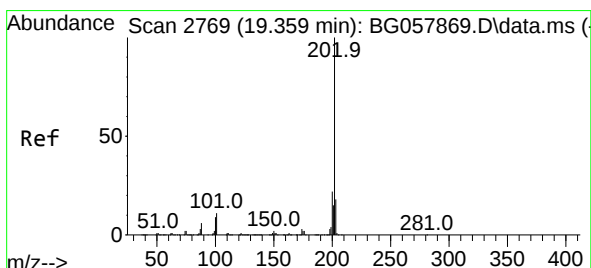
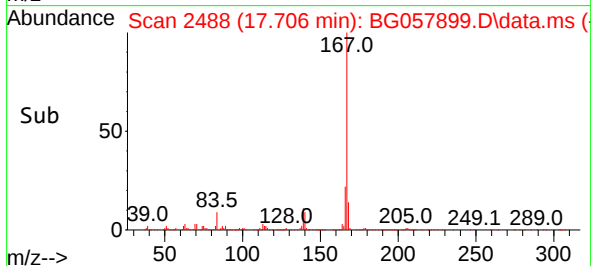
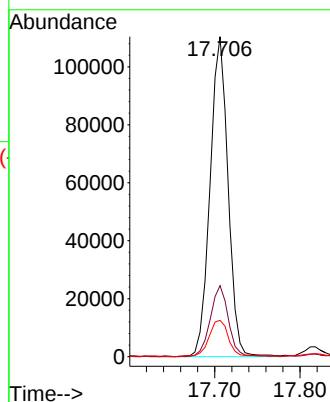
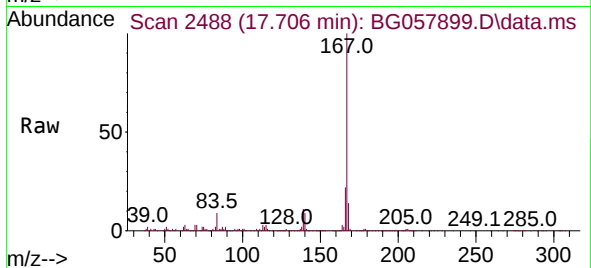
Tgt Ion:167	Resp: 16180
Ion Ratio	Lower Upper
167 100	
166 22.2	17.8 26.8
139 11.3	9.8 14.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/29/2023

Supervised By :mohammad ahmed 06/29/2023



#75

Fluoranthene

Concen: 57.511 ng

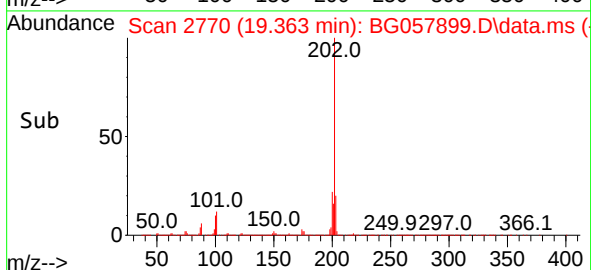
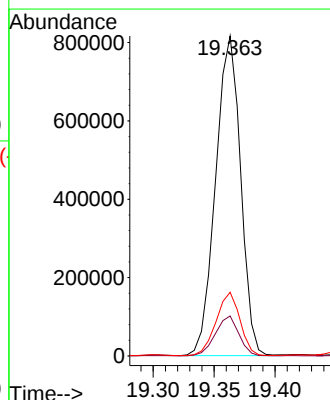
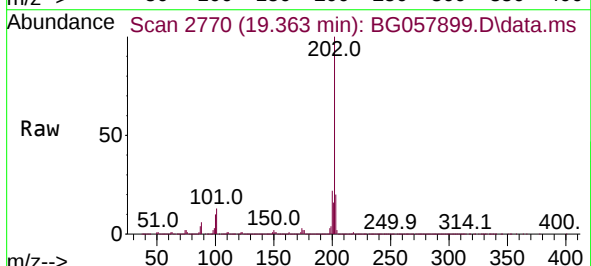
RT: 19.363 min Scan# 2770

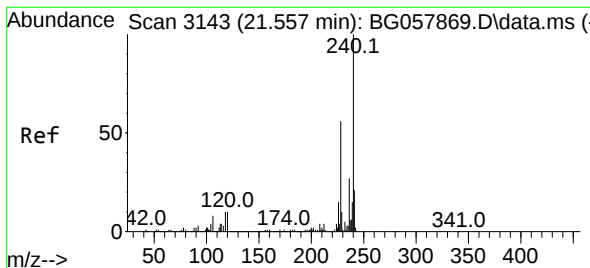
Delta R.T. 0.004 min

Lab File: BG057899.D

Acq: 28 Jun 2023 19:24

Tgt Ion:202	Resp: 1164956
Ion Ratio	Lower Upper
202 100	
101 12.5	0.0 31.3
203 19.9	0.0 38.2





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.560 min Scan# 3144

Delta R.T. 0.004 min

Lab File: BG057899.D

Acq: 28 Jun 2023 19:24

Instrument :

BNA_G

ClientSampleId :

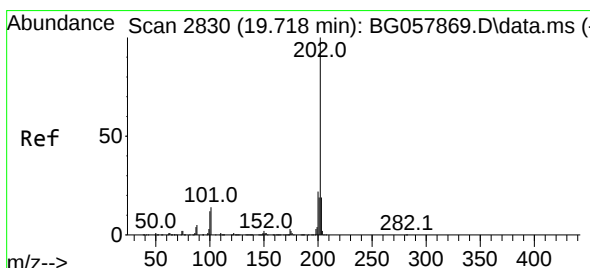
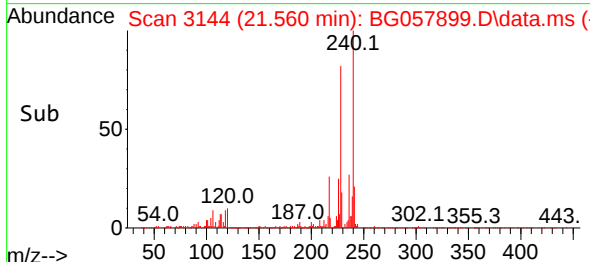
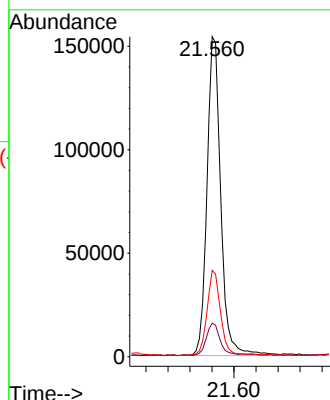
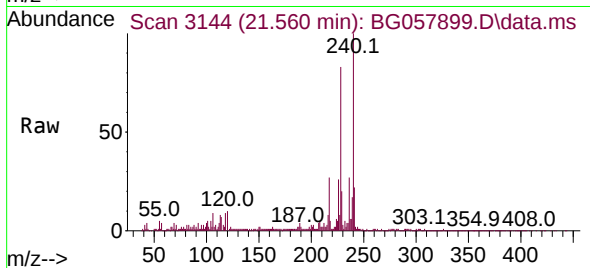
SB37DL

Tgt Ion:	240	Resp:	267460
Ion Ratio	Lower	Upper	
240	100		
120	10.5	8.1	12.1
236	27.0	21.9	32.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/29/2023
Supervised By :mohammad ahmed 06/29/2023



#78

Pyrene

Concen: 52.347 ng

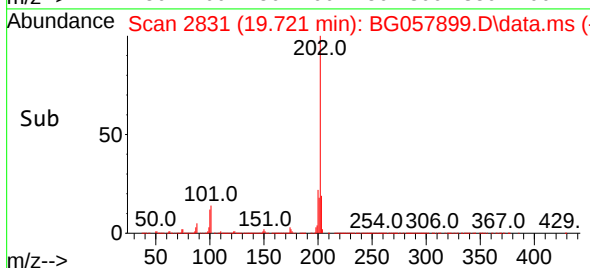
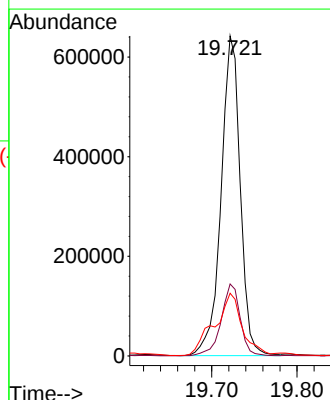
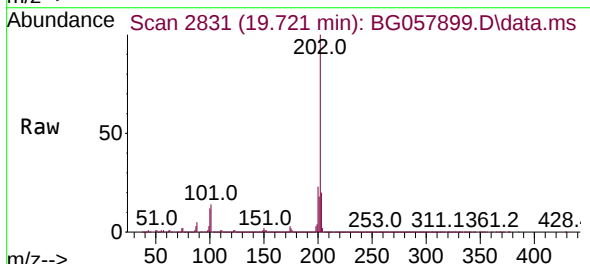
RT: 19.721 min Scan# 2831

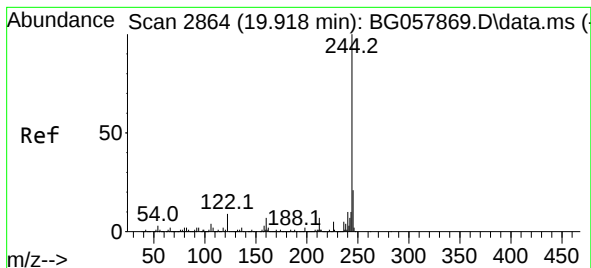
Delta R.T. 0.004 min

Lab File: BG057899.D

Acq: 28 Jun 2023 19:24

Tgt Ion:	202	Resp:	999700
Ion Ratio	Lower	Upper	
202	100		
200	22.5	17.7	26.5
203	19.6	15.2	22.8





#79

Terphenyl-d14

Concen: 13.984 ng

RT: 19.915 min Scan# 21

Delta R.T. -0.002 min

Lab File: BG057899.D

Acq: 28 Jun 2023 19:24

Instrument :

BNA_G

ClientSampleId :

SB37DL

Tgt Ion:244 Resp: 20516

Ion Ratio Lower Upper

244 100

212 7.3 5.9 8.9

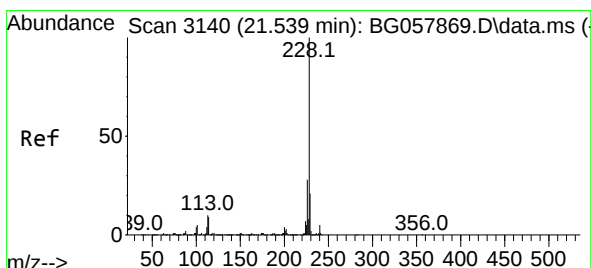
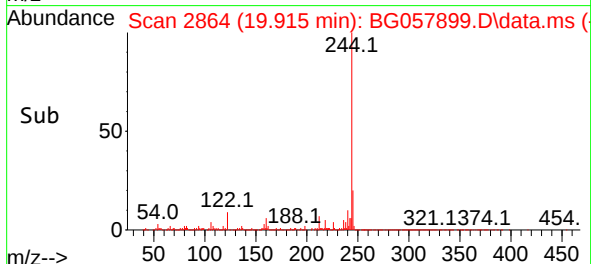
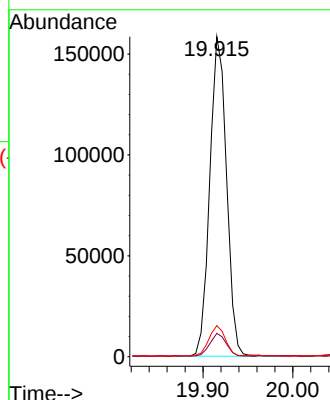
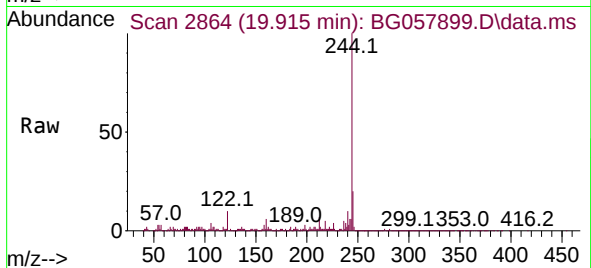
122 9.7 7.4 11.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/29/2023

Supervised By :mohammad ahmed 06/29/2023



#81

Benzo(a)anthracene

Concen: 34.716 ng

RT: 21.543 min Scan# 3141

Delta R.T. 0.004 min

Lab File: BG057899.D

Acq: 28 Jun 2023 19:24

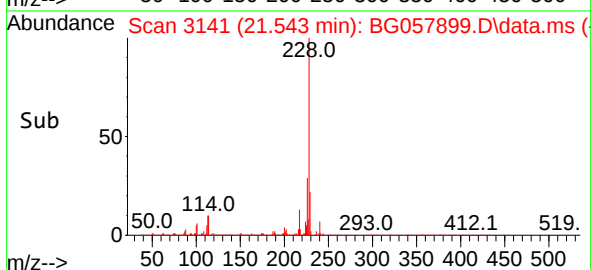
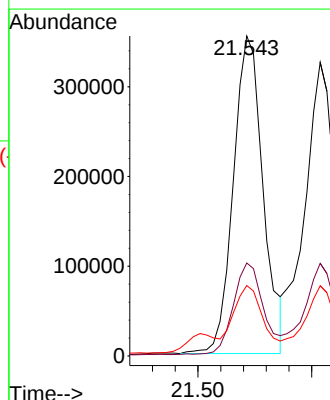
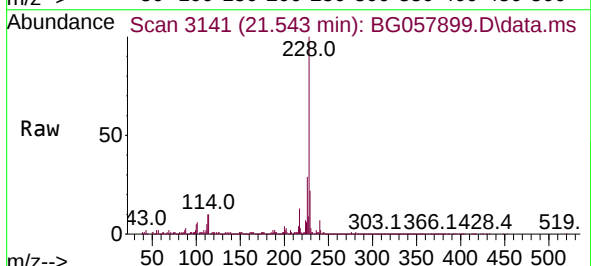
Tgt Ion:228 Resp: 642556

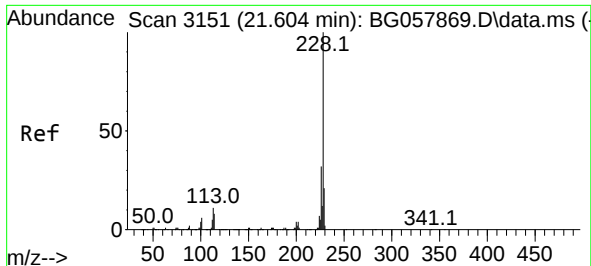
Ion Ratio Lower Upper

228 100

226 29.0 22.7 34.1

229 22.0 16.5 24.7





#83

Chrysene

Concen: 35.470 ng

RT: 21.607 min Scan# 3151

Delta R.T. 0.004 min

Lab File: BG057899.D

Acq: 28 Jun 2023 19:24

Instrument :

BNA_G

ClientSampleId :

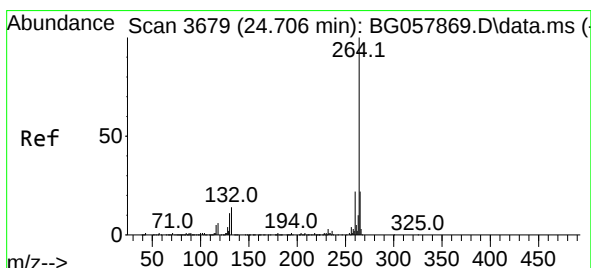
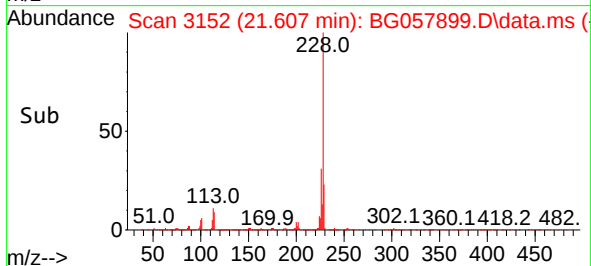
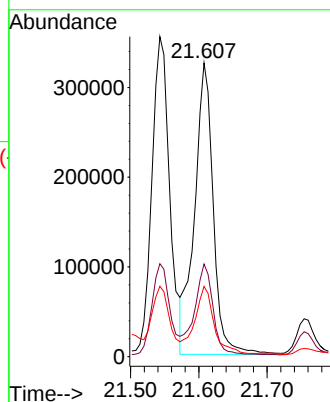
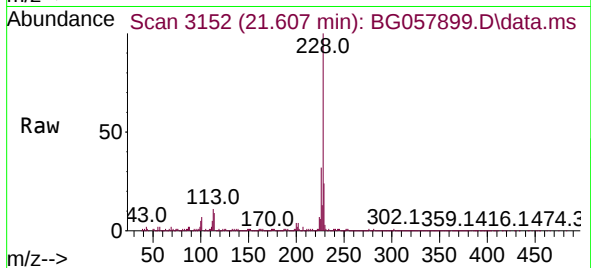
SB37DL

Tgt Ion:228 Resp: 62143
 Ion Ratio Lower Upper
 228 100
 226 31.5 25.3 37.9
 229 23.9 16.5 24.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/29/2023
 Supervised By :mohammad ahmed 06/29/2023



#86

Perylene-d12

Concen: 20.000 ng

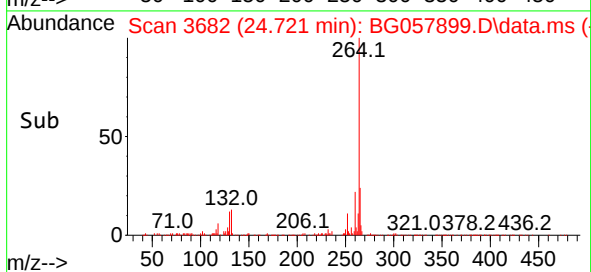
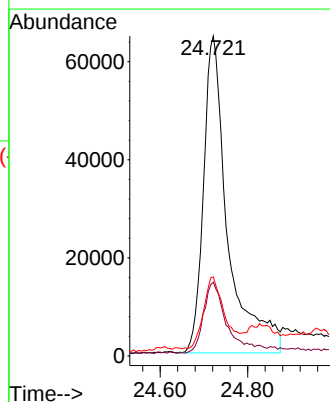
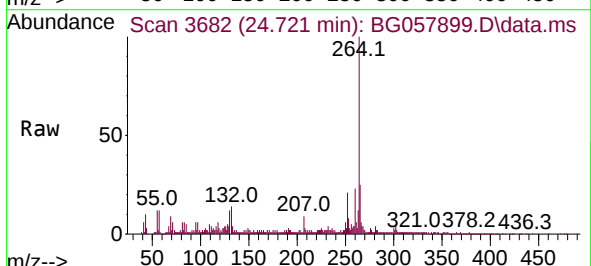
RT: 24.721 min Scan# 3682

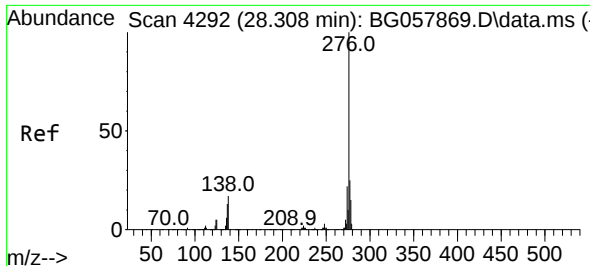
Delta R.T. 0.015 min

Lab File: BG057899.D

Acq: 28 Jun 2023 19:24

Tgt Ion:264 Resp: 251287
 Ion Ratio Lower Upper
 264 100
 260 23.0 17.8 26.8
 265 24.7 17.3 25.9





#87
Indeno(1,2,3-cd)pyrene
Concen: 8.724 ng
RT: 28.306 min Scan# 41
Delta R.T. -0.002 min
Lab File: BG057899.D
Acq: 28 Jun 2023 19:24

Instrument :

BNA_G

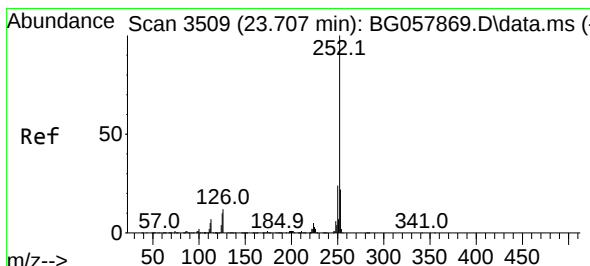
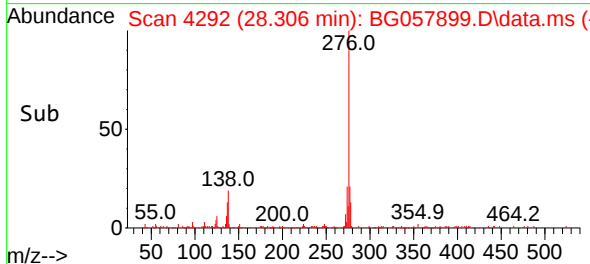
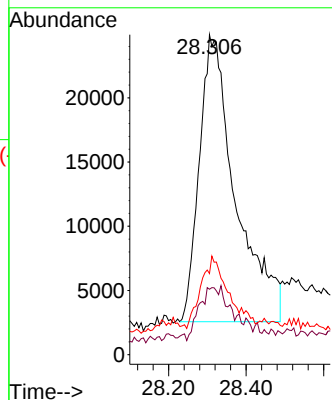
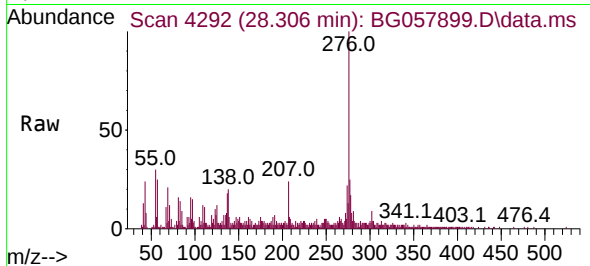
ClientSampleId :

SB37DL

Tgt Ion:276 Resp: 145229
Ion Ratio Lower Upper
276 100
138 0.0 12.2 18.4
277 17.2 20.4 30.6

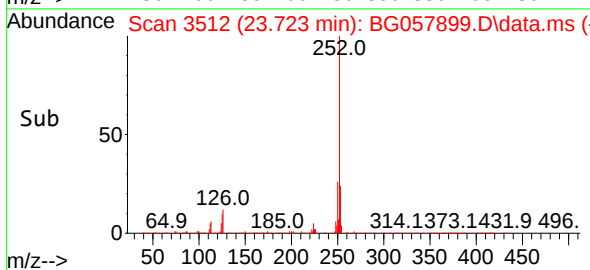
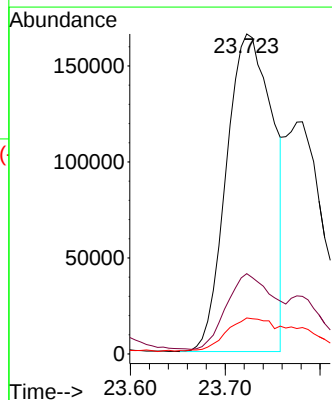
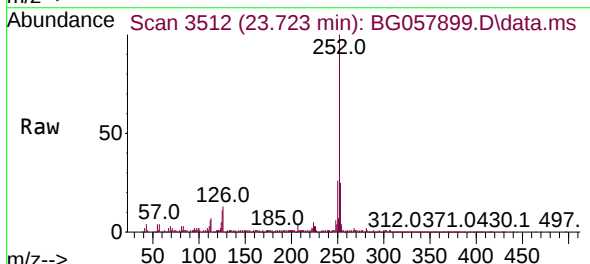
Manual Integrations
APPROVED

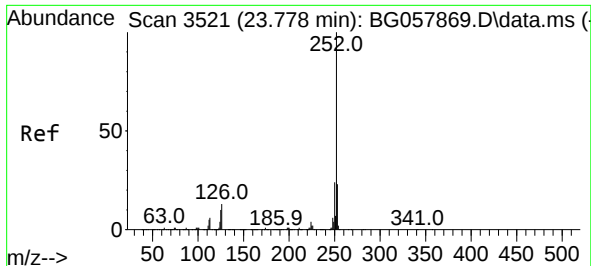
Reviewed By :Yogesh Patel 06/29/2023
Supervised By :mohammad ahmed 06/29/2023



#88
Benzo(b)fluoranthene
Concen: 41.125 ng
RT: 23.723 min Scan# 3512
Delta R.T. 0.015 min
Lab File: BG057899.D
Acq: 28 Jun 2023 19:24

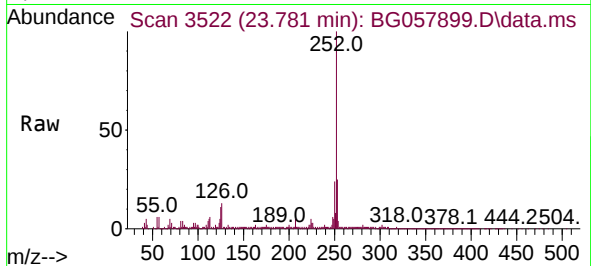
Tgt Ion:252 Resp: 563646
Ion Ratio Lower Upper
252 100
253 25.1 17.7 26.5
125 11.3 7.7 11.5





#89
Benzo(k)fluoranthene
Concen: 21.318 ng m
RT: 23.781 min Scan# 3522
Delta R.T. 0.004 min
Lab File: BG057899.D
Acq: 28 Jun 2023 19:24

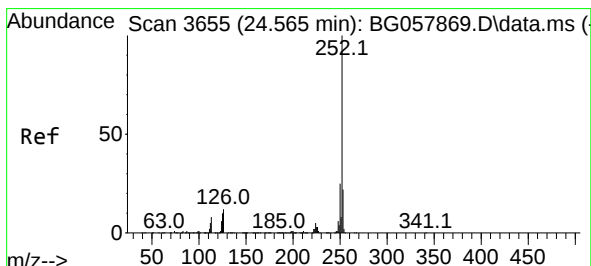
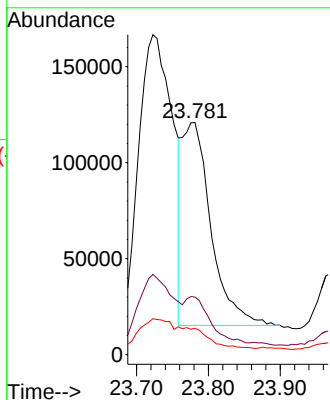
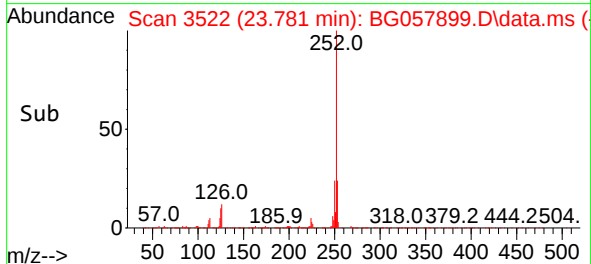
Instrument :
BNA_G
ClientSampleId :
SB37DL



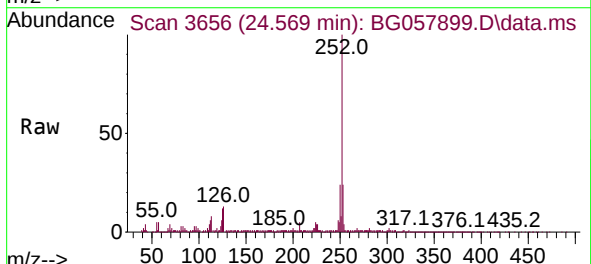
Tgt Ion:252 Resp: 29529
Ion Ratio Lower Upper
252 100
253 24.8 18.1 27.1
125 11.3 7.8 11.6

Manual Integrations
APPROVED

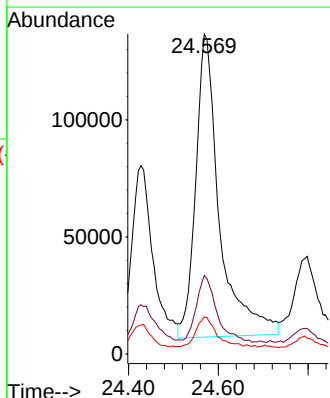
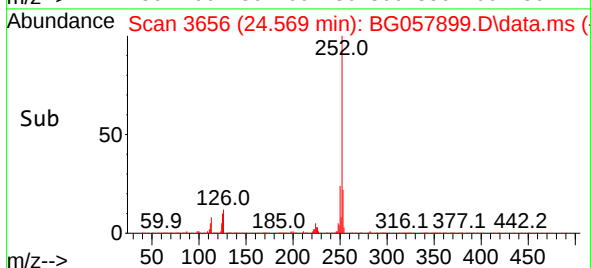
Reviewed By :Yogesh Patel 06/29/2023
Supervised By :mohammad ahmed 06/29/2023

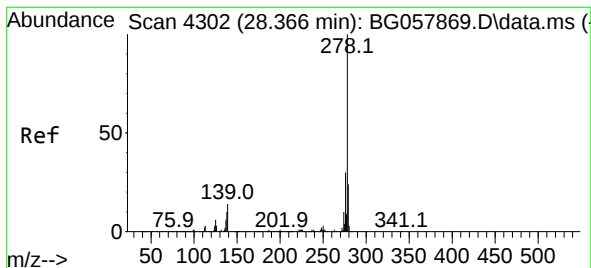


#90
Benzo(a)pyrene
Concen: 35.051 ng
RT: 24.569 min Scan# 3656
Delta R.T. 0.004 min
Lab File: BG057899.D
Acq: 28 Jun 2023 19:24



Tgt Ion:252 Resp: 475882
Ion Ratio Lower Upper
252 100
253 24.5 17.7 26.5
125 11.5 8.0 12.0





#91

Dibenzo(a,h)anthracene

Concen: 2.756 ng

RT: 28.382 min Scan# 41

Delta R.T. 0.015 min

Lab File: BG057899.D

Acq: 28 Jun 2023 19:24

Instrument :

BNA_G

ClientSampleId :

SB37DL

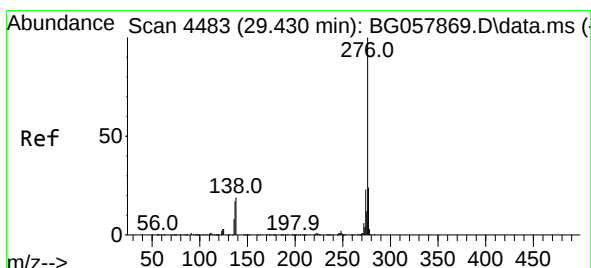
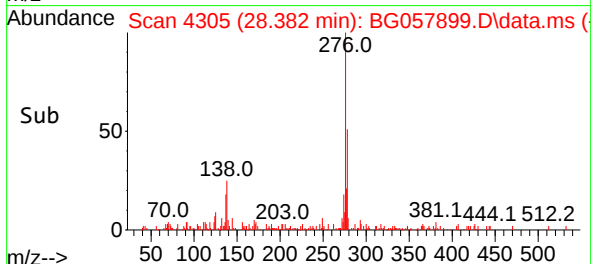
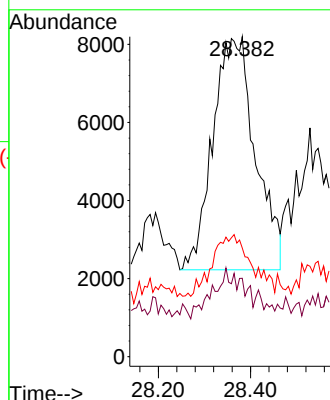
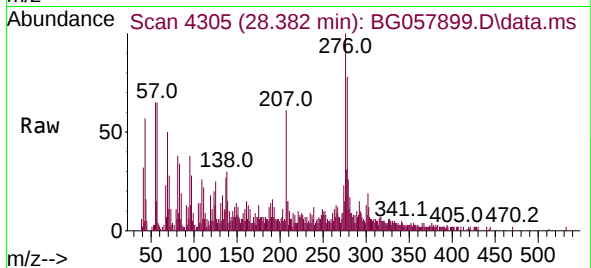
Tgt Ion:	278	Resp:	3806
Ion Ratio	Lower	Upper	
278	100		
139	24.5	11.0	16.4
279	33.9	19.3	28.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/29/2023

Supervised By :mohammad ahmed 06/29/2023



#92

Benzo(g,h,i)perylene

Concen: 7.271 ng

RT: 29.439 min Scan# 4485

Delta R.T. 0.010 min

Lab File: BG057899.D

Acq: 28 Jun 2023 19:24

Tgt Ion:	276	Resp:	99788
Ion Ratio	Lower	Upper	
276	100		
277	28.7	19.4	29.2
138	20.7	15.0	22.6

