

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG122122\
 Data File : BG056054.D
 Acq On : 21 Dec 2022 18:46
 Operator : CG/JU
 Sample : N6038-07 5X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 RB-32-(1.5-3.5)

Manual Integrations
 APPROVED

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

Quant Time: Dec 22 01:26:59 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG121322.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 21 01:11:10 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.364	152	12220	20.000	ng	0.00
21) Naphthalene-d8	11.196	136	46773	20.000	ng	# 0.00
39) Acenaphthene-d10	14.968	164	38907	20.000	ng	0.00
64) Phenanthrene-d10	17.706	188	95564	20.000	ng	0.00
76) Chrysene-d12	22.013	240	99374	20.000	ng	0.00
86) Perylene-d12	25.503	264	123301	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.879	112	7907	15.175	ng	0.00
7) Phenol-d6	7.489	99	12428	18.545	ng	0.00
23) Nitrobenzene-d5	9.534	82	8410	12.565	ng	0.00
42) 2,4,6-Tribromophenol	16.443	330	25187	26.847	ng	0.00
45) 2-Fluorobiphenyl	13.599	172	41119	14.822	ng	0.00
79) Terphenyl-d14	20.280	244	105308	18.729	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	17.747	178	55328	11.048	ng	99
75) Fluoranthene	19.739	202	87648	12.498	ng	99
78) Pyrene	20.098	202	78120	12.991	ng	99
81) Benzo(a)anthracene	21.990	228	42093	6.020	ng	100
83) Chrysene	22.060	228	49982	7.627	ng	96
88) Benzo(b)fluoranthene	24.387	252	69139	8.664	ng	# 95
89) Benzo(k)fluoranthene	24.451	252	25980m	3.263	ng	
90) Benzo(a)pyrene	25.333	252	49121	7.282	ng	# 95
92) Benzo(g,h,i)perylene	30.773	276	24406	3.042	ng	# 97

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

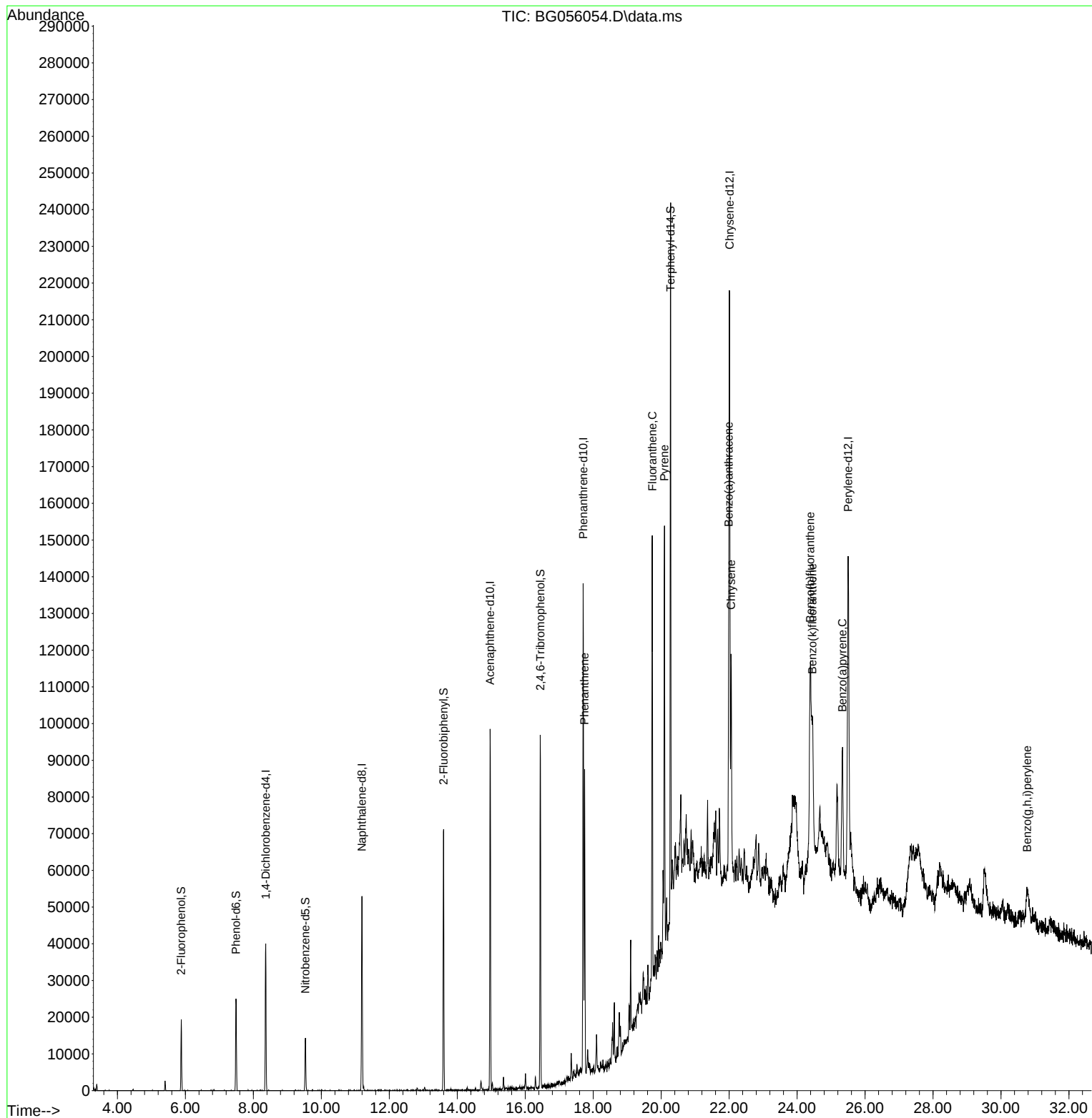
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG122122\
Data File : BG056054.D
Acq On : 21 Dec 2022 18:46
Operator : CG/JU
Sample : N6038-07 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

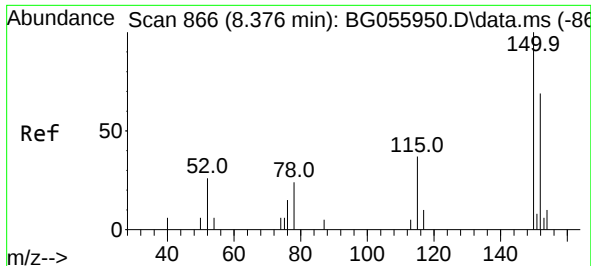
Instrument :
BNA_G
ClientSampleId :
RB-32-(1.5-3.5)

Quant Time: Dec 22 01:26:59 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG121322.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 21 01:11:10 2022
Response via : Initial Calibration

Manual Integrations
APPROVED

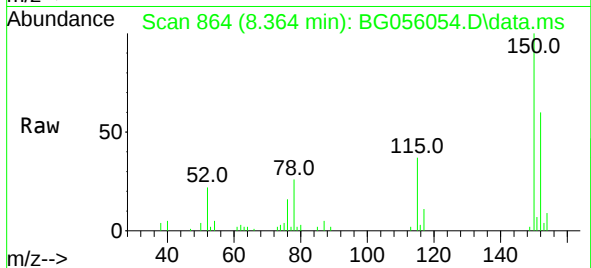
Reviewed By : Christian Giraldo 12/22/2022
Supervised By : mohammad ahmed 12/22/2022





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.364 min Scan# 80
Delta R.T. -0.001 min
Lab File: BG056054.D
Acq: 21 Dec 2022 18:46

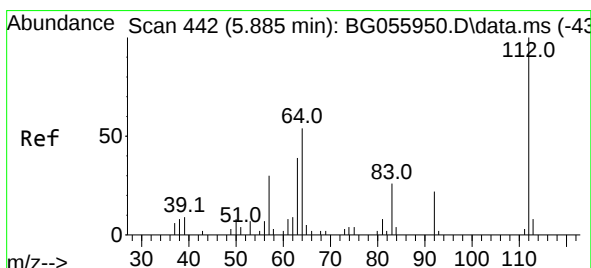
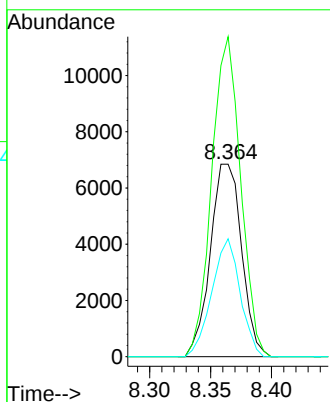
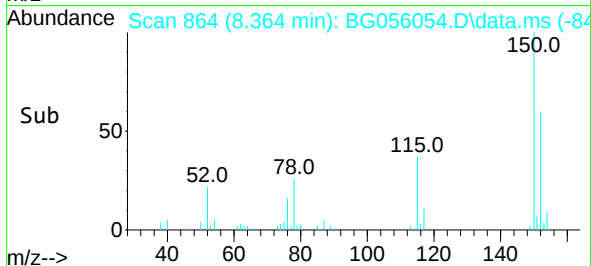
Instrument :
BNA_G
ClientSampleId :
RB-32-(1.5-3.5)



Tgt Ion:152 Resp: 12220
Ion Ratio Lower Upper
152 100
150 166.2 115.7 173.5
115 61.2 43.0 64.4

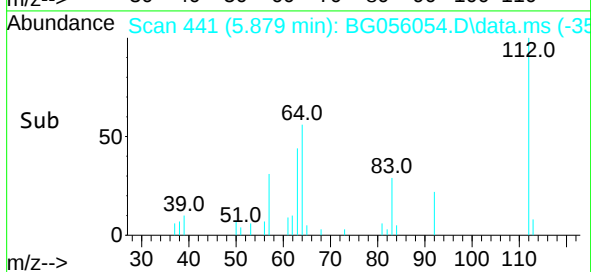
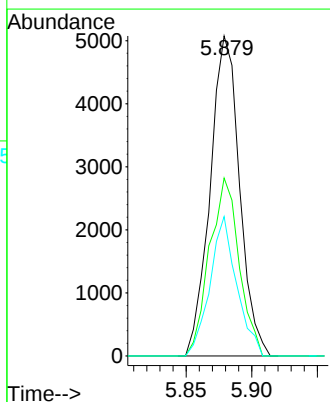
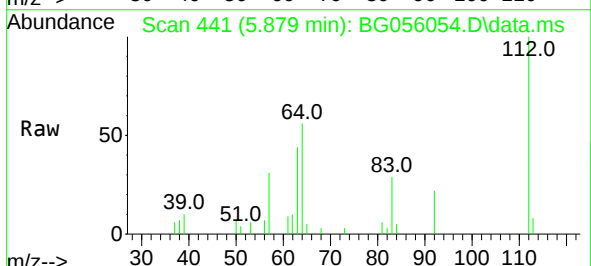
Manual Integrations
APPROVED

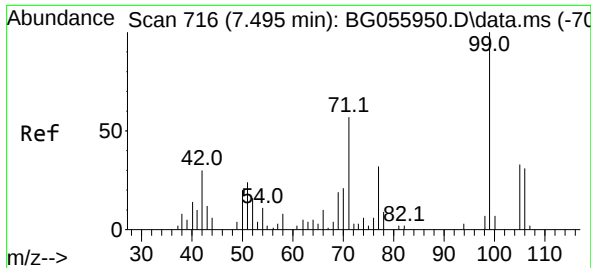
Reviewed By :Christian Giraldo 12/22/2022
Supervised By :mohammad ahmed 12/22/2022



#5
2-Fluorophenol
Concen: 15.175 ng
RT: 5.879 min Scan# 441
Delta R.T. -0.001 min
Lab File: BG056054.D
Acq: 21 Dec 2022 18:46

Tgt Ion:112 Resp: 7907
Ion Ratio Lower Upper
112 100
64 55.6 43.0 64.4
63 43.5 31.4 47.2





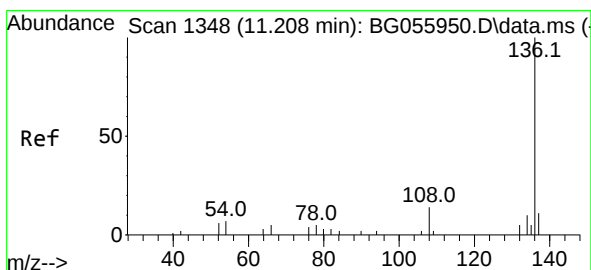
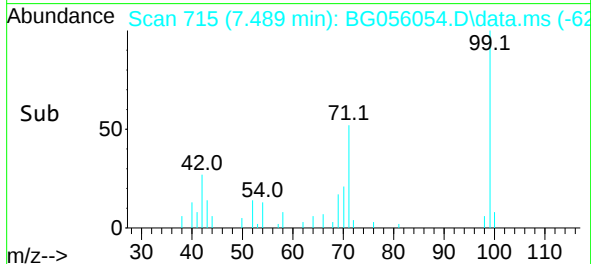
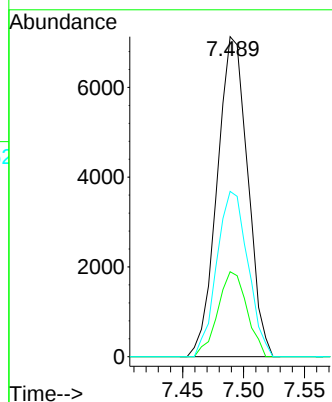
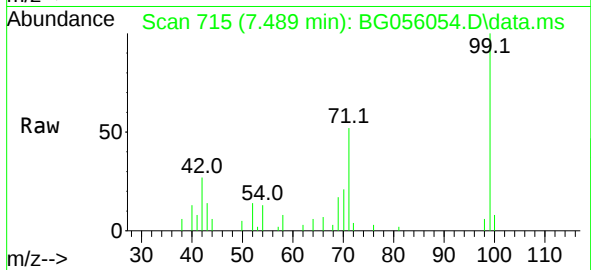
#7
Phenol-d6
Concen: 18.545 ng
RT: 7.489 min Scan# 716
Delta R.T. -0.006 min
Lab File: BG056054.D
Acq: 21 Dec 2022 18:46

Instrument :
BNA_G
ClientSampleId :
RB-32-(1.5-3.5)

Tgt Ion: 99 Resp: 12428
Ion Ratio Lower Upper
99 100
42 26.5 24.3 36.5
71 51.7 45.6 68.4

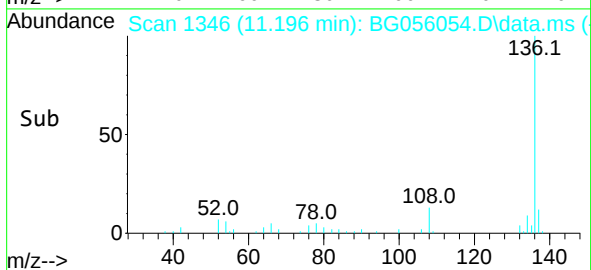
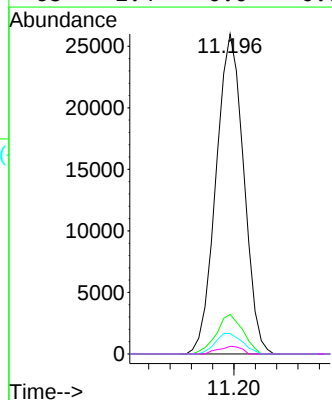
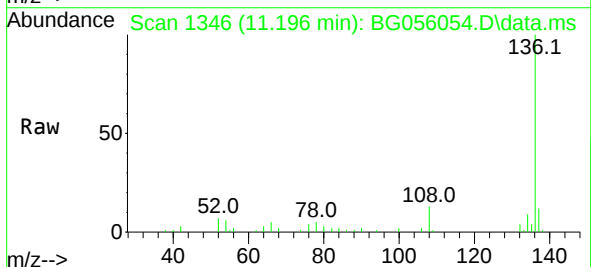
Manual Integrations
APPROVED

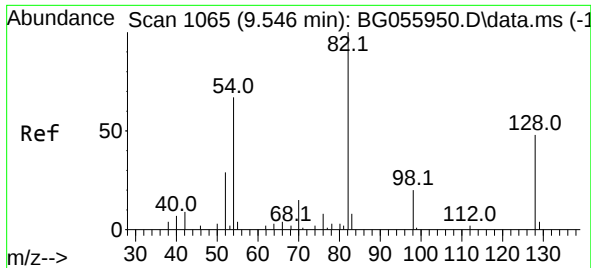
Reviewed By :Christian Giraldo 12/22/2022
Supervised By :mohammad ahmed 12/22/2022



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.196 min Scan# 1346
Delta R.T. -0.001 min
Lab File: BG056054.D
Acq: 21 Dec 2022 18:46

Tgt Ion:136 Resp: 46773
Ion Ratio Lower Upper
136 100
137 12.3 9.2 13.8
54 6.4 5.6 8.4
68 2.4 0.0 0.0#





#23
Nitrobenzene-d5
Concen: 12.565 ng
RT: 9.534 min Scan# 1063
Delta R.T. -0.006 min
Lab File: BG056054.D
Acq: 21 Dec 2022 18:46

Instrument :

BNA_G

ClientSampleId :

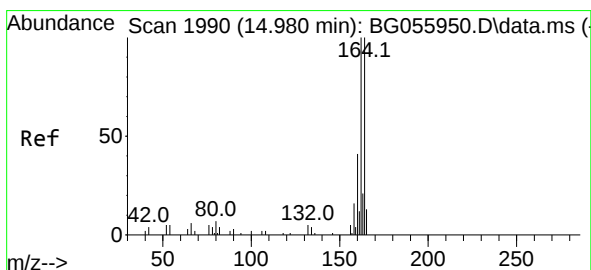
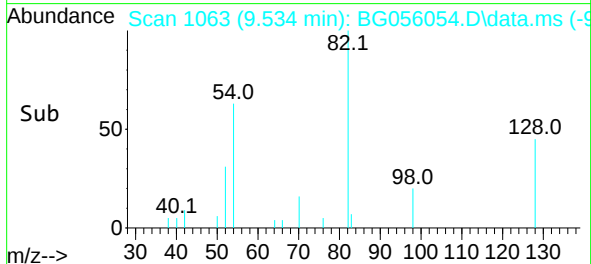
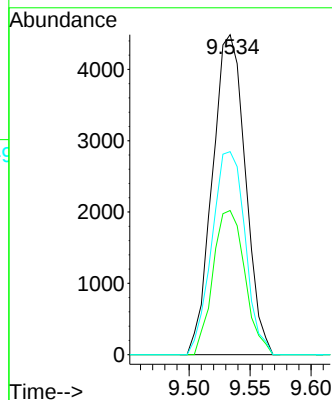
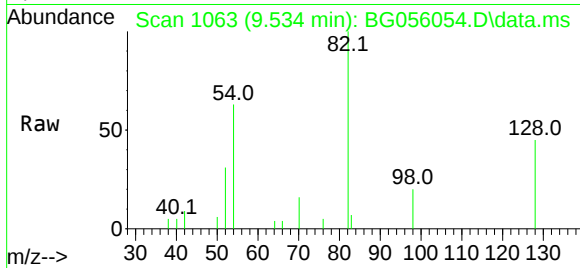
RB-32-(1.5-3.5)

Tgt Ion: 82 Resp: 8410
Ion Ratio Lower Upper
82 100
128 45.0 38.4 57.6
54 63.4 53.3 79.9

Manual Integrations

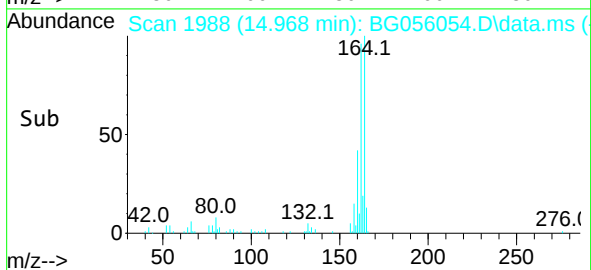
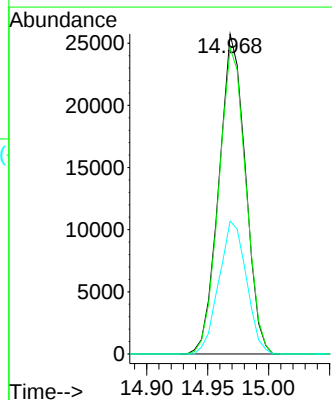
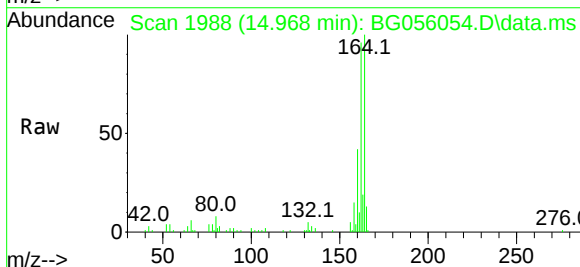
APPROVED

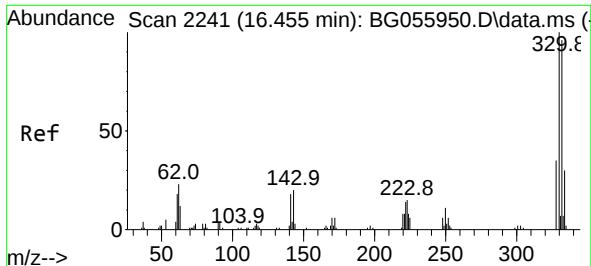
Reviewed By :Christian Giraldo 12/22/2022
Supervised By :mohammad ahmed 12/22/2022



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.968 min Scan# 1988
Delta R.T. -0.006 min
Lab File: BG056054.D
Acq: 21 Dec 2022 18:46

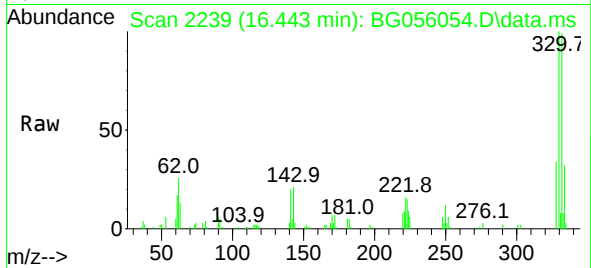
Tgt Ion:164 Resp: 38907
Ion Ratio Lower Upper
164 100
162 95.6 79.8 119.8
160 41.6 33.0 49.4





#42
2,4,6-Tribromophenol
Concen: 26.847 ng
RT: 16.443 min Scan# 21
Delta R.T. -0.006 min
Lab File: BG056054.D
Acq: 21 Dec 2022 18:46

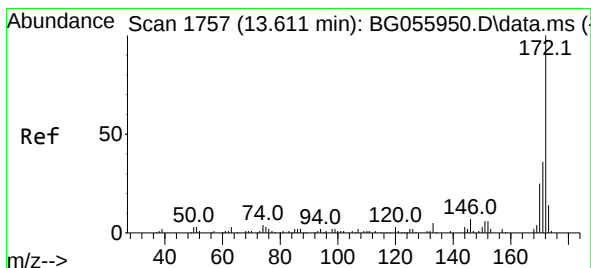
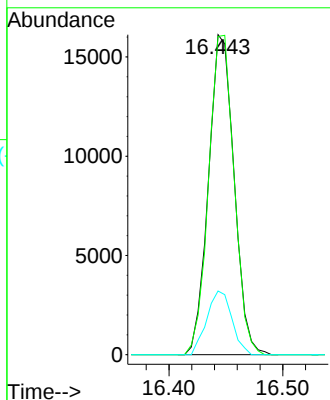
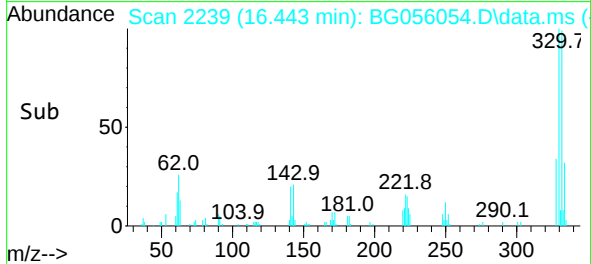
Instrument :
BNA_G
ClientSampleId :
RB-32-(1.5-3.5)



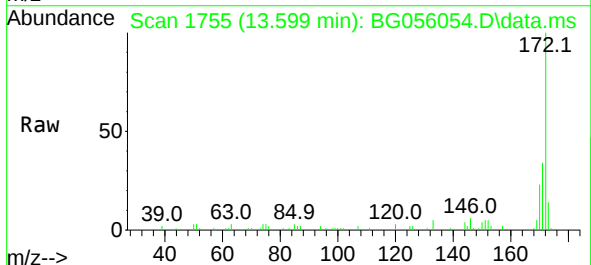
Tgt Ion:330 Resp: 2518
Ion Ratio Lower Upper
330 100
332 99.3 76.6 114.8
141 19.5 15.0 22.4

Manual Integrations
APPROVED

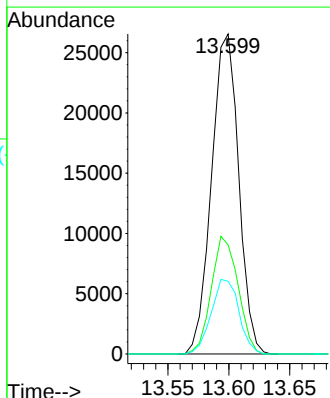
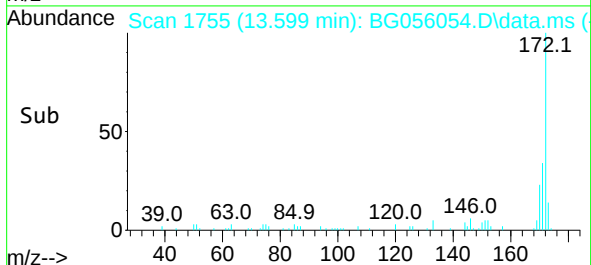
Reviewed By :Christian Giraldo 12/22/2022
Supervised By :mohammad ahmed 12/22/2022

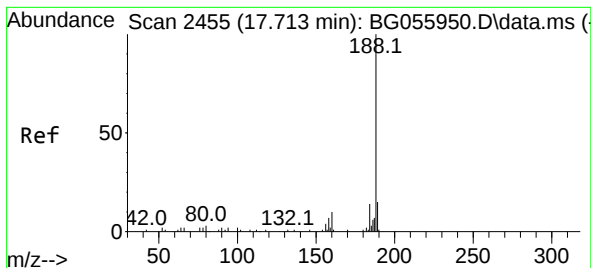


#45
2-Fluorobiphenyl
Concen: 14.822 ng
RT: 13.599 min Scan# 1755
Delta R.T. -0.001 min
Lab File: BG056054.D
Acq: 21 Dec 2022 18:46



Tgt Ion:172 Resp: 41119
Ion Ratio Lower Upper
172 100
171 34.1 28.6 42.8
170 22.7 19.9 29.9





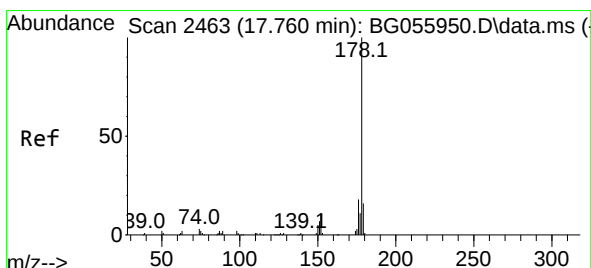
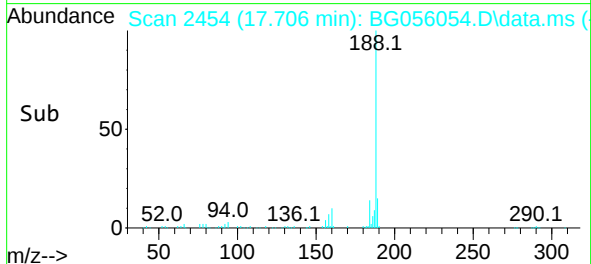
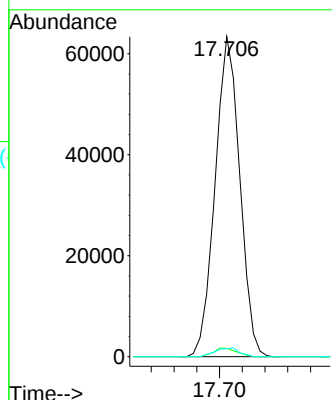
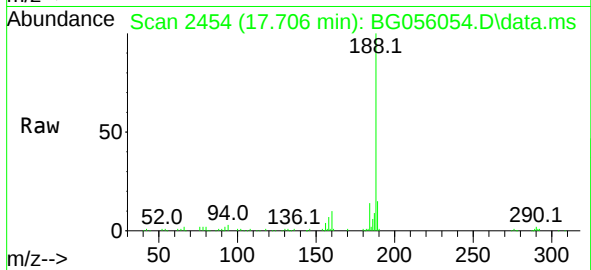
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.706 min Scan# 2455
Delta R.T. -0.001 min
Lab File: BG056054.D
Acq: 21 Dec 2022 18:46

Instrument :
BNA_G
ClientSampleId :
RB-32-(1.5-3.5)

Tgt Ion:188 Resp: 95564
Ion Ratio Lower Upper
188 100
94 2.6 1.8 2.8
80 2.5 2.4 3.6

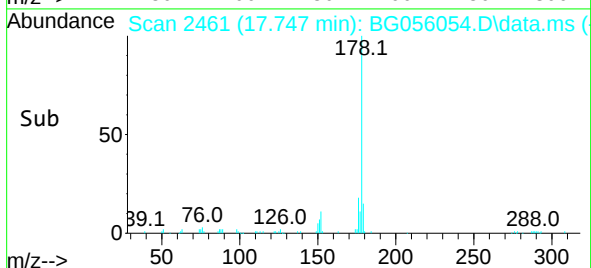
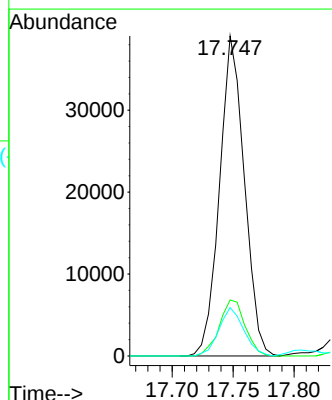
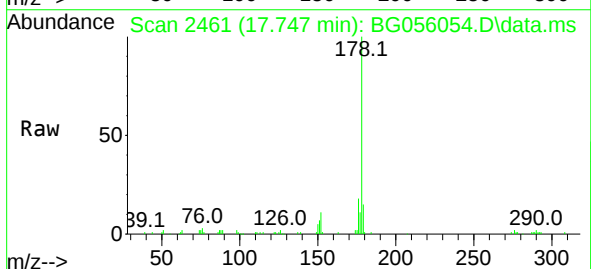
Manual Integrations
APPROVED

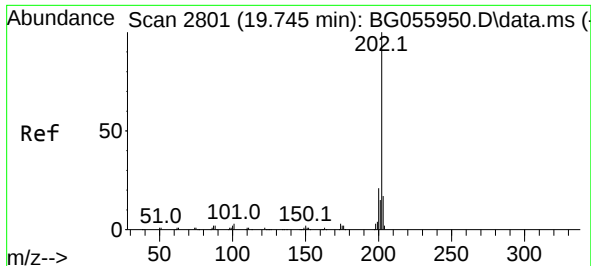
Reviewed By :Christian Giraldo 12/22/2022
Supervised By :mohammad ahmed 12/22/2022



#71
Phenanthrene
Concen: 11.048 ng
RT: 17.747 min Scan# 2461
Delta R.T. -0.006 min
Lab File: BG056054.D
Acq: 21 Dec 2022 18:46

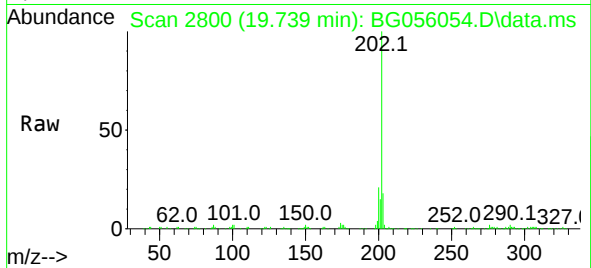
Tgt Ion:178 Resp: 55328
Ion Ratio Lower Upper
178 100
176 17.5 14.4 21.6
179 15.1 12.7 19.1





#75
Fluoranthene
Concen: 12.498 ng
RT: 19.739 min Scan# 21
Delta R.T. -0.001 min
Lab File: BG056054.D
Acq: 21 Dec 2022 18:46

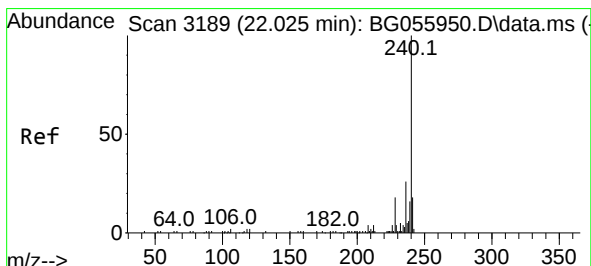
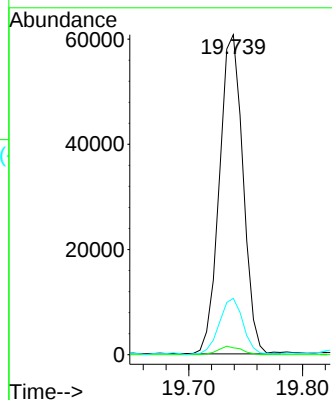
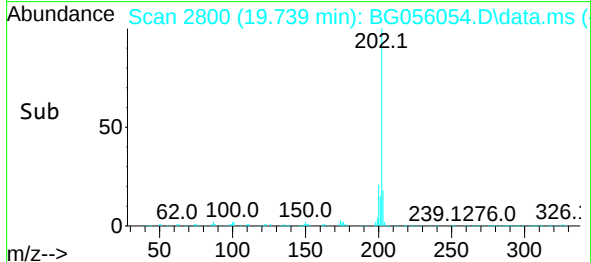
Instrument :
BNA_G
ClientSampleId :
RB-32-(1.5-3.5)



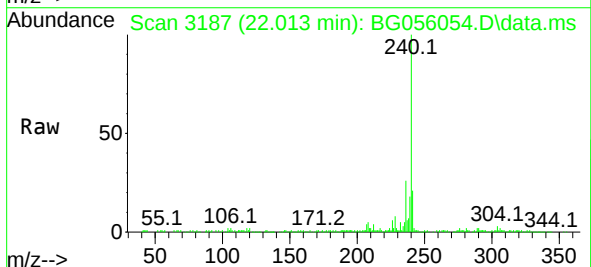
Tgt Ion:202 Resp: 87648
Ion Ratio Lower Upper
202 100
101 2.2 0.0 22.6
203 17.6 0.0 37.1

Manual Integrations
APPROVED

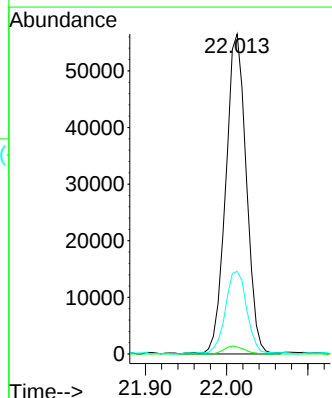
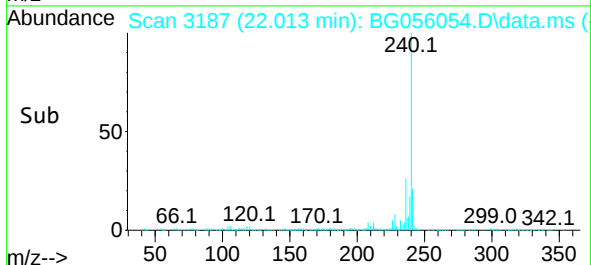
Reviewed By :Christian Giraldo 12/22/2022
Supervised By :mohammad ahmed 12/22/2022

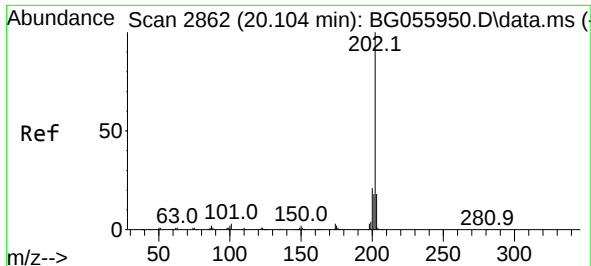


#76
Chrysene-d12
Concen: 20.000 ng
RT: 22.013 min Scan# 3187
Delta R.T. -0.001 min
Lab File: BG056054.D
Acq: 21 Dec 2022 18:46



Tgt Ion:240 Resp: 99374
Ion Ratio Lower Upper
240 100
120 2.2 1.7 2.5
236 25.8 21.1 31.7





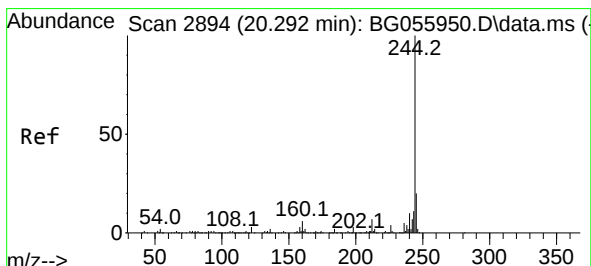
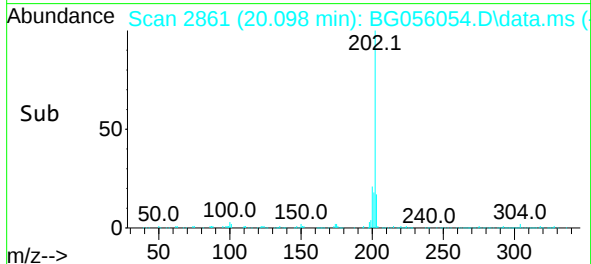
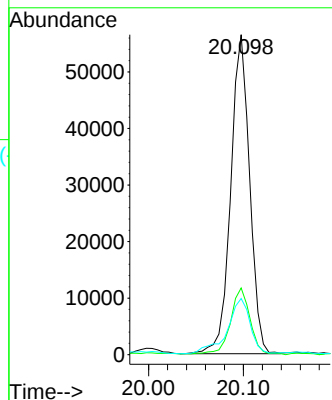
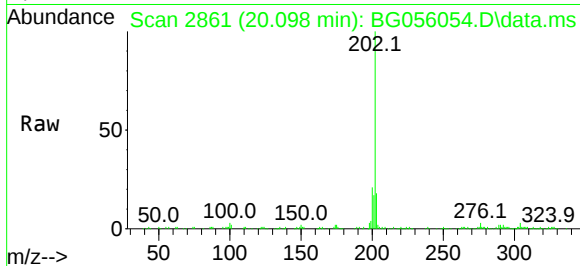
#78
Pyrene
Concen: 12.991 ng
RT: 20.098 min Scan# 2861
Delta R.T. -0.001 min
Lab File: BG056054.D
Acq: 21 Dec 2022 18:46

Instrument :
BNA_G
ClientSampleId :
RB-32-(1.5-3.5)

Tgt Ion:202 Resp: 78120
Ion Ratio Lower Upper
202 100
200 20.9 16.7 25.1
203 17.6 14.6 21.8

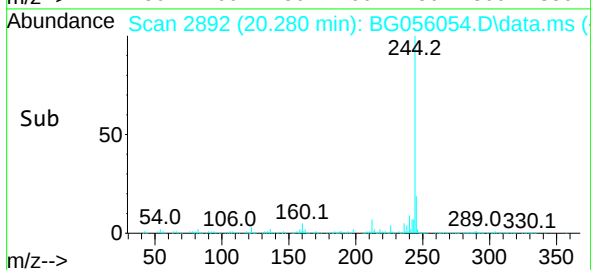
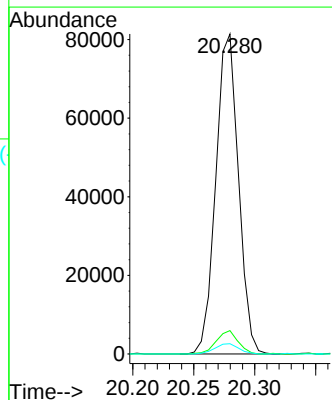
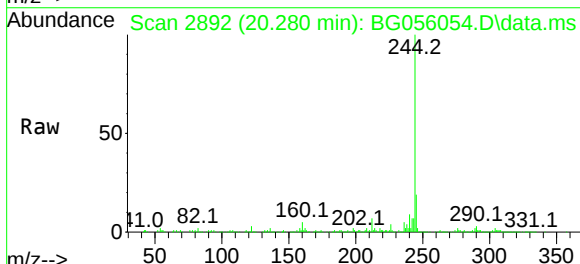
Manual Integrations
APPROVED

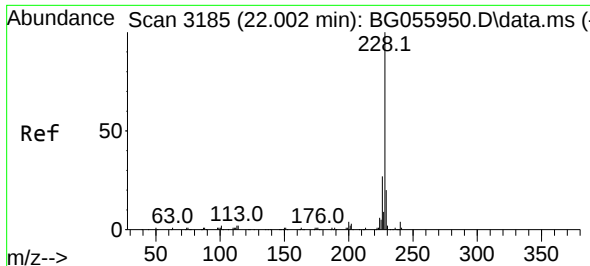
Reviewed By :Christian Giraldo 12/22/2022
Supervised By :mohammad ahmed 12/22/2022



#79
Terphenyl-d14
Concen: 18.729 ng
RT: 20.280 min Scan# 2892
Delta R.T. -0.001 min
Lab File: BG056054.D
Acq: 21 Dec 2022 18:46

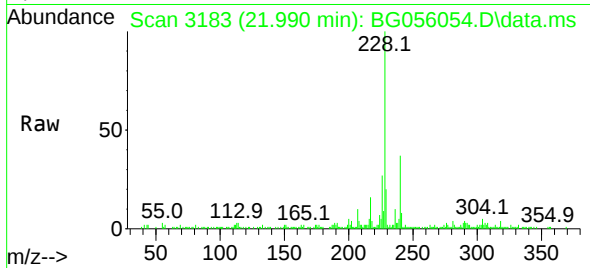
Tgt Ion:244 Resp: 105308
Ion Ratio Lower Upper
244 100
212 7.3 5.8 8.6
122 3.2 2.5 3.7





#81
Benzo(a)anthracene
Concen: 6.020 ng
RT: 21.990 min Scan# 3183
Delta R.T. -0.006 min
Lab File: BG056054.D
Acq: 21 Dec 2022 18:46

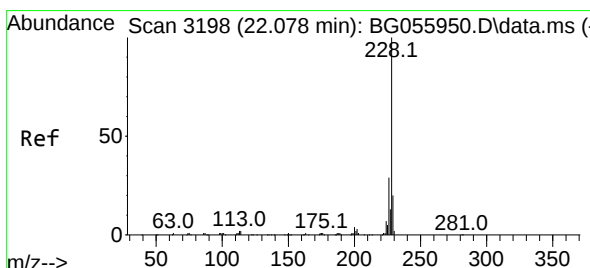
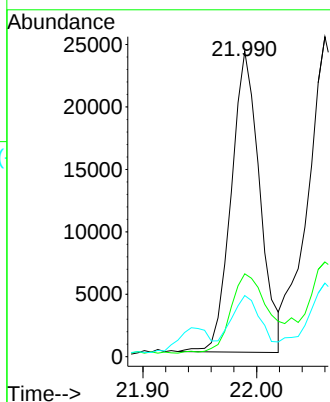
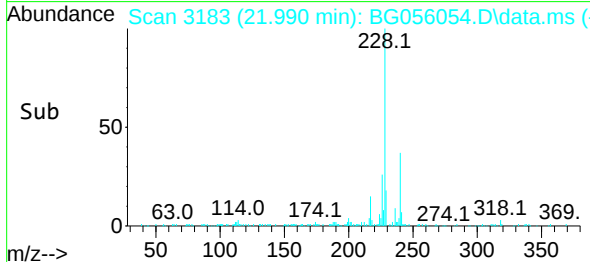
Instrument :
BNA_G
ClientSampleId :
RB-32-(1.5-3.5)



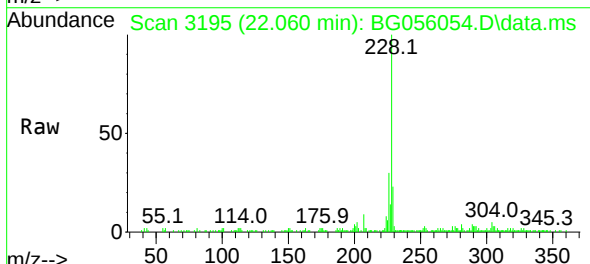
Tgt Ion:228 Resp: 4209
Ion Ratio Lower Upper
228 100
226 27.2 21.8 32.6
229 20.0 15.9 23.9

Manual Integrations
APPROVED

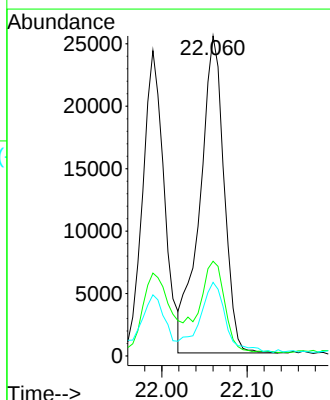
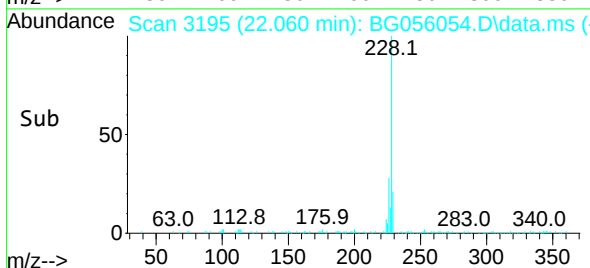
Reviewed By :Christian Giraldo 12/22/2022
Supervised By :mohammad ahmed 12/22/2022

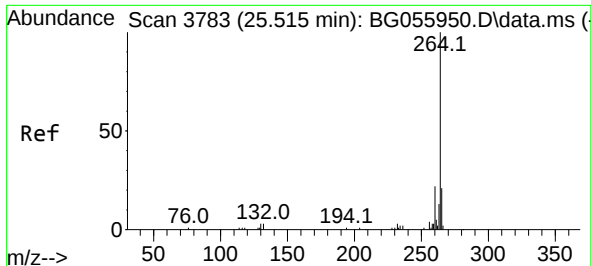


#83
Chrysene
Concen: 7.627 ng
RT: 22.060 min Scan# 3195
Delta R.T. -0.006 min
Lab File: BG056054.D
Acq: 21 Dec 2022 18:46



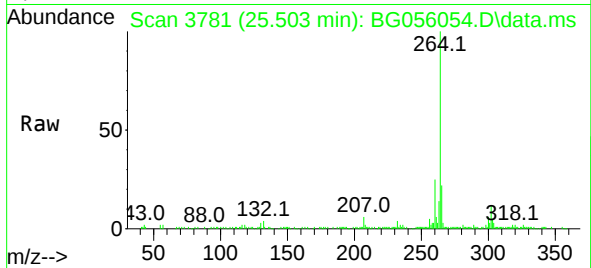
Tgt Ion:228 Resp: 49982
Ion Ratio Lower Upper
228 100
226 29.6 23.1 34.7
229 23.0 15.7 23.5





#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 25.503 min Scan# 31
 Delta R.T. 0.005 min
 Lab File: BG056054.D
 Acq: 21 Dec 2022 18:46

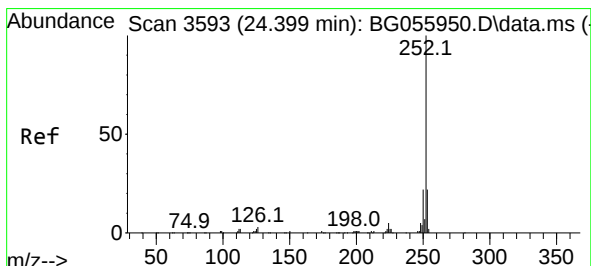
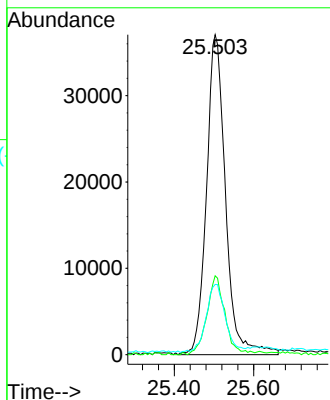
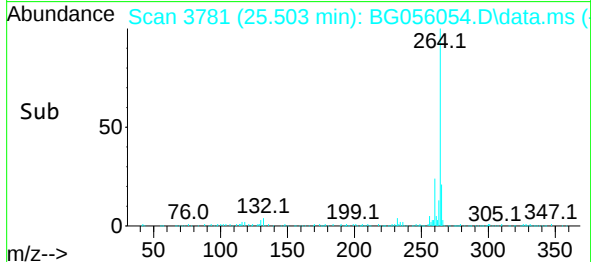
Instrument :
 BNA_G
 ClientSampleId :
 RB-32-(1.5-3.5)



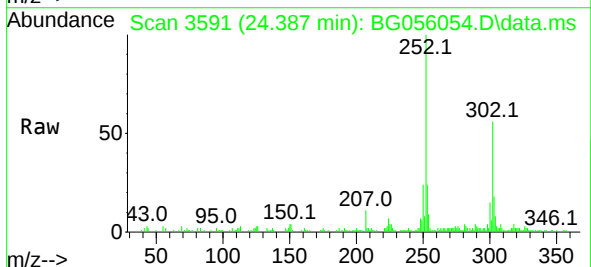
Tgt Ion:264 Resp: 12330
 Ion Ratio Lower Upper
 264 100
 260 24.6 17.8 26.8
 265 22.0 16.6 25.0

Manual Integrations
 APPROVED

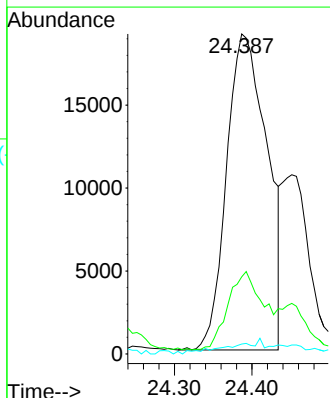
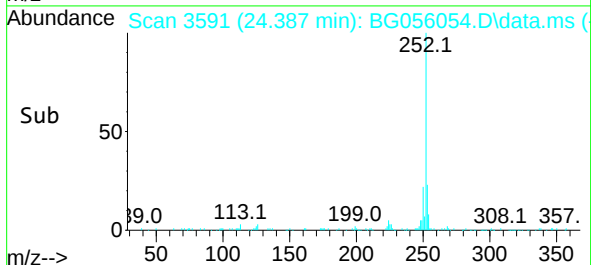
Reviewed By :Christian Giraldo 12/22/2022
 Supervised By :mohammad ahmed 12/22/2022

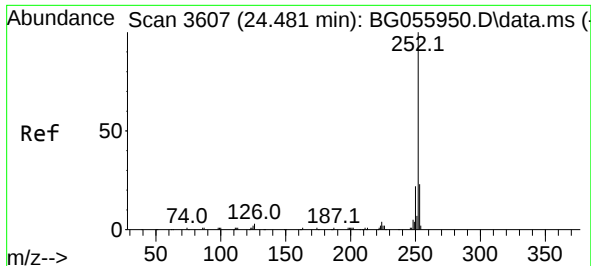


#88
 Benzo(b)fluoranthene
 Concen: 8.664 ng
 RT: 24.387 min Scan# 3591
 Delta R.T. -0.001 min
 Lab File: BG056054.D
 Acq: 21 Dec 2022 18:46



Tgt Ion:252 Resp: 69139
 Ion Ratio Lower Upper
 252 100
 253 24.1 17.4 26.0
 125 3.1 1.8 2.8#





#89

Benzo(k)fluoranthene

Concen: 3.263 ng m

RT: 24.451 min Scan# 30

Delta R.T. -0.012 min

Lab File: BG056054.D

Acq: 21 Dec 2022 18:46

Instrument :

BNA_G

ClientSampleId :

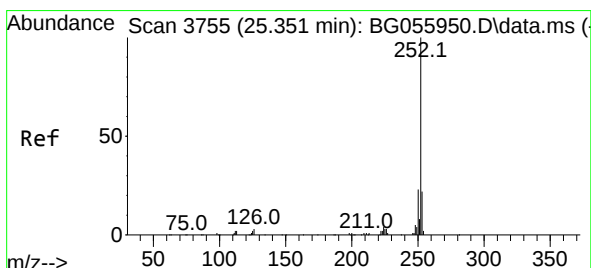
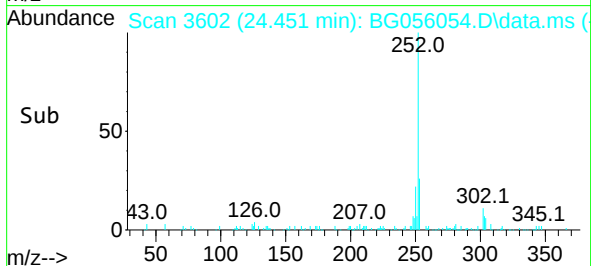
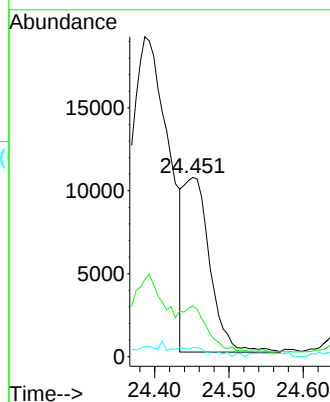
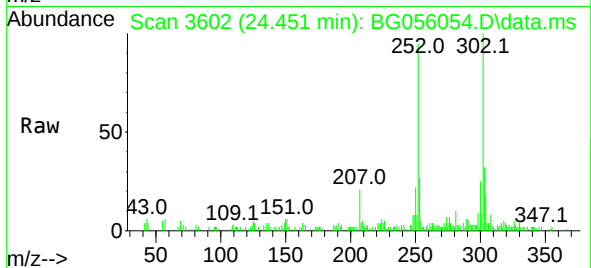
RB-32-(1.5-3.5)

Tgt Ion:	252	Resp:	25980
Ion Ratio	Lower	Upper	
252	100		
253	28.2	18.2	27.2
125	5.0	2.0	3.0

Manual Integrations

APPROVED

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



#90

Benzo(a)pyrene

Concen: 7.282 ng

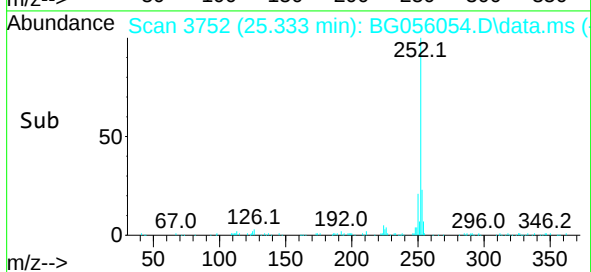
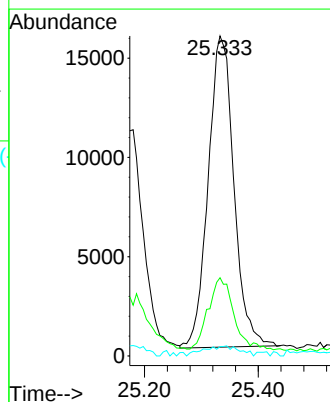
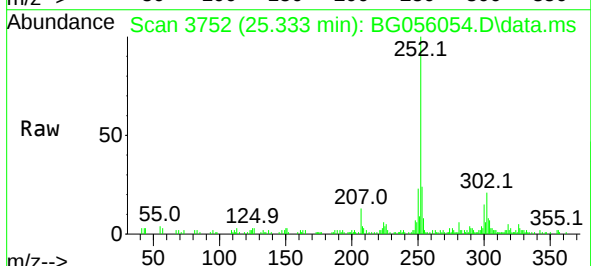
RT: 25.333 min Scan# 3752

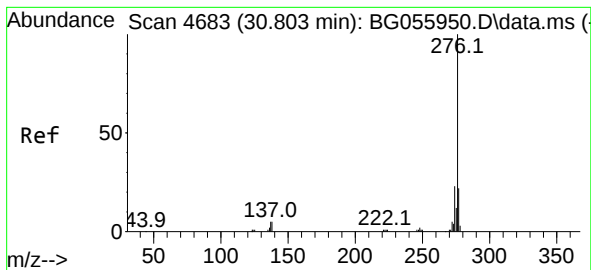
Delta R.T. -0.001 min

Lab File: BG056054.D

Acq: 21 Dec 2022 18:46

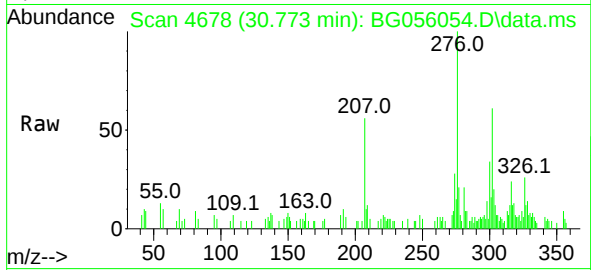
Tgt Ion:	252	Resp:	49121
Ion Ratio	Lower	Upper	
252	100		
253	24.5	17.7	26.5
125	2.9	1.9	2.9





#92
Benzo(g,h,i)perylene
Concen: 3.042 ng
RT: 30.773 min Scan# 4
Delta R.T. -0.018 min
Lab File: BG056054.D
Acq: 21 Dec 2022 18:46

Instrument :
BNA_G
ClientSampleId :
RB-32-(1.5-3.5)



Tgt Ion:276 Resp: 2440
Ion Ratio Lower Upper
276 100
277 21.1 17.8 26.6
138 7.5 3.8 5.6

Manual Integrations
APPROVED

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

