

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG050224\
 Data File : BG061098.D
 Acq On : 2 May 2024 18:10
 Operator : MA/JU
 Sample : P2330-21DL 20X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 H-4(0.5-1.5)DL

Quant Time: May 03 00:39:59 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG043024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 01 05:11:25 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 05/03/2024
 Supervised By :mohammad ahmed 05/06/2024

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.935	152	32154	20.000	ng	-0.03
21) Naphthalene-d8	10.732	136	125290	20.000	ng	-0.03
39) Acenaphthene-d10	14.563	164	88421	20.000	ng	-0.03
64) Phenanthrene-d10	17.313	188	194976	20.000	ng	-0.02
76) Chrysene-d12	21.572	240	187287	20.000	ng	-0.02
86) Perylene-d12	24.698	264	156195	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.526	112	8479	5.363	ng	-0.02
7) Phenol-d6	7.113	99	11083	4.739	ng	-0.02
23) Nitrobenzene-d5	9.093	82	8944	3.539	ng	-0.03
42) 2,4,6-Tribromophenol	16.055	330	8348	4.723	ng	-0.02
45) 2-Fluorobiphenyl	13.188	172	23177	3.876	ng	-0.02
79) Terphenyl-d14	19.927	244	36313	3.225	ng	-0.03
Target Compounds						Qvalue
52) Acenaphthene	14.628	154	16920	3.890	ng	# 82
55) Dibenzofuran	14.962	168	29593	4.028	ng	98
58) Fluorene	15.615	166	42320	6.657	ng	97
71) Phenanthrene	17.354	178	372149	41.743	ng	100
72) Anthracene	17.448	178	117322	13.189	ng	98
73) Carbazole	17.712	167	21877	2.797	ng	97
75) Fluoranthene	19.369	202	386770	31.667	ng	99
78) Pyrene	19.733	202	300194	25.212	ng	98
81) Benzo(a)anthracene	21.555	228	143453	11.705	ng	99
83) Chrysene	21.619	228	118552m	10.325	ng	
84) Bis(2-ethylhexyl)phtha...	21.472	149	10801	2.195	ng	# 95
87) Indeno(1,2,3-cd)pyrene	28.241	276	21481m	2.075	ng	
88) Benzo(b)fluoranthene	23.729	252	89524	10.257	ng	# 98
89) Benzo(k)fluoranthene	23.770	252	53207m	6.337	ng	
90) Benzo(a)pyrene	24.551	252	67652m	8.897	ng	

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

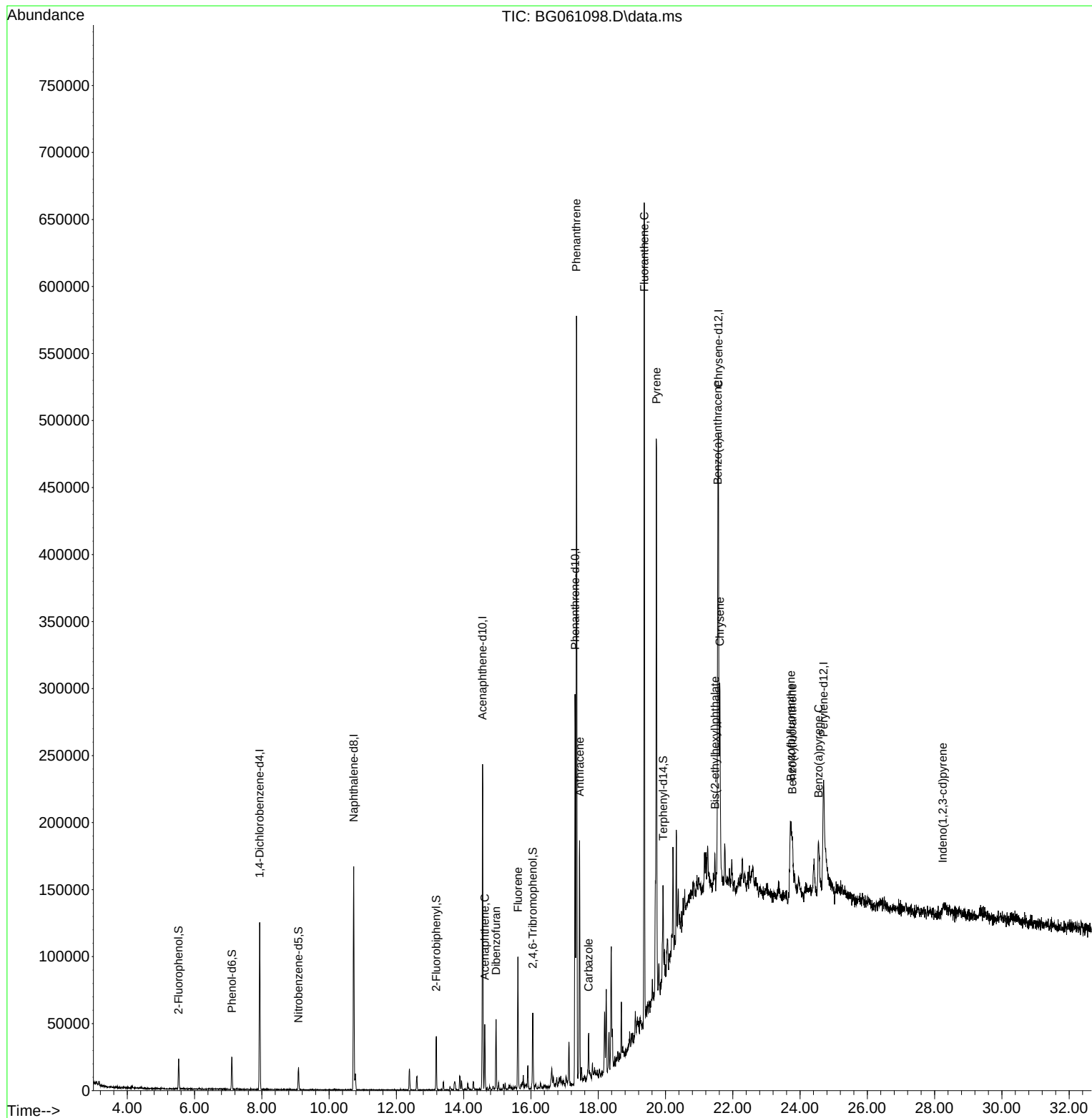
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG050224\
Data File : BG061098.D
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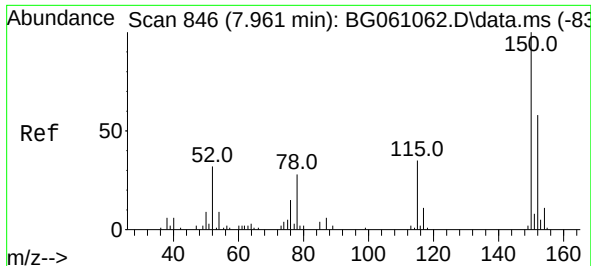
Instrument :
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H-4(0.5-1.5)DL

Quant Time: May 03 00:39:59 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG043024.M
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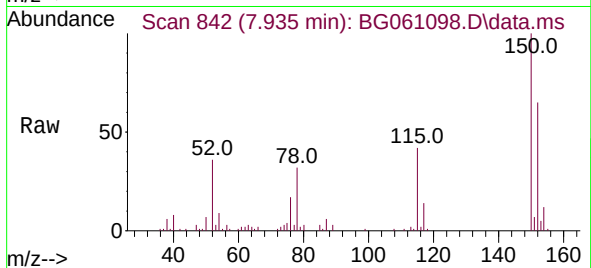
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.935 min Scan# 846
Delta R.T. -0.026 min
Lab File: BG061098.D
Acq: 2 May 2024 18:10

Instrument :

BNA_G

ClientSampleId :

H-4(0.5-1.5)DL



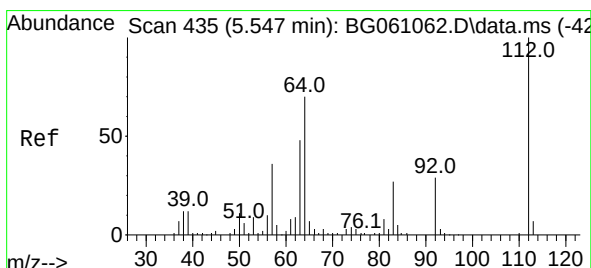
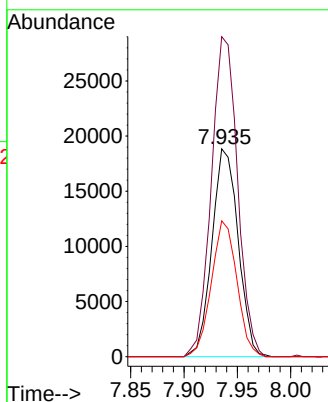
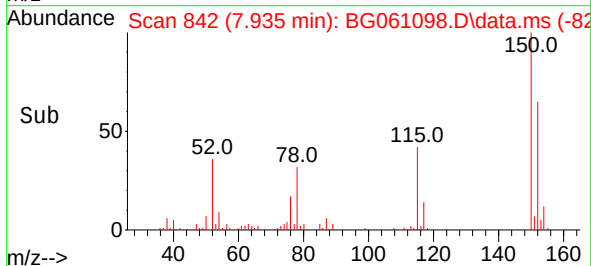
Tgt Ion:152 Resp: 3215
Ion Ratio Lower Upper
152 100
150 154.0 138.3 207.5
115 65.4 48.0 72.0

Manual Integrations

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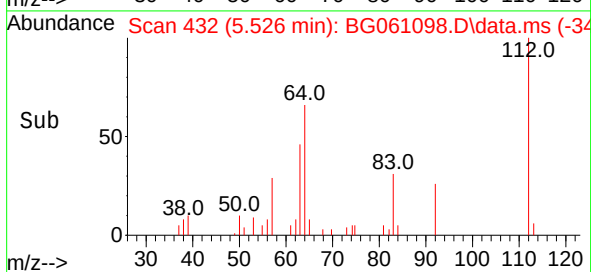
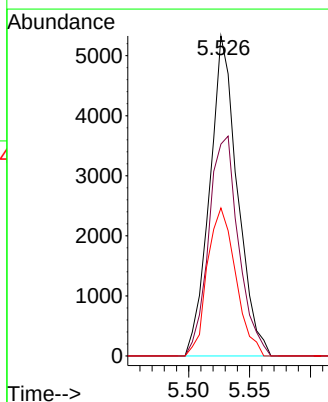
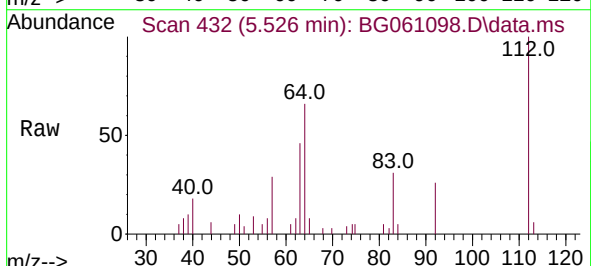
Reviewed By :Yogesh Patel 05/03/2024

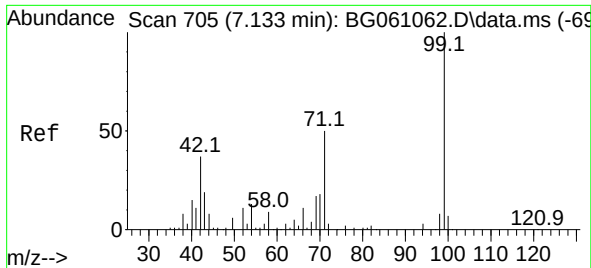
Supervised By :mohammad ahmed 05/06/2024



#5
2-Fluorophenol
Concen: 5.363 ng
RT: 5.526 min Scan# 432
Delta R.T. -0.020 min
Lab File: BG061098.D
Acq: 2 May 2024 18:10

Tgt Ion:112 Resp: 8479
Ion Ratio Lower Upper
112 100
64 66.2 55.7 83.5
63 46.3 38.1 57.1





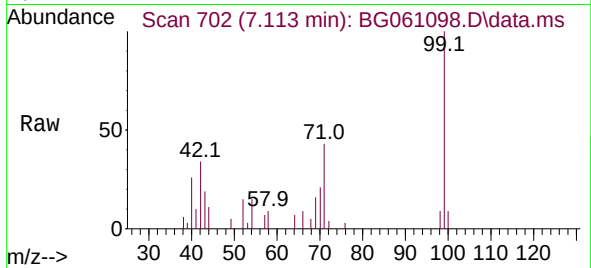
#7
Phenol-d6
Concen: 4.739 ng
RT: 7.113 min Scan# 71
Delta R.T. -0.020 min
Lab File: BG061098.D
Acq: 2 May 2024 18:10

Instrument :

BNA_G

ClientSampleId :

H-4(0.5-1.5)DL

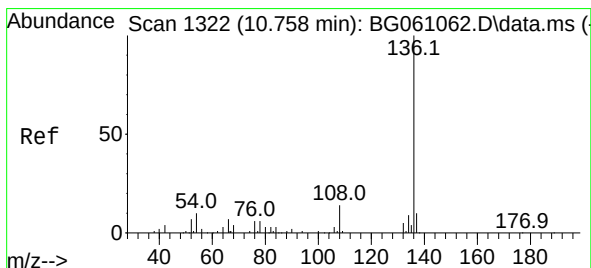
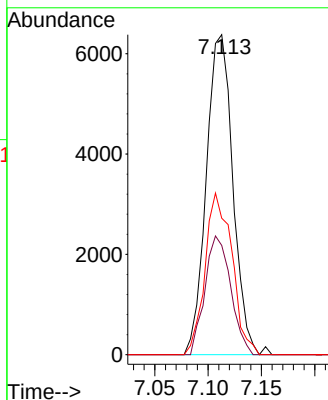
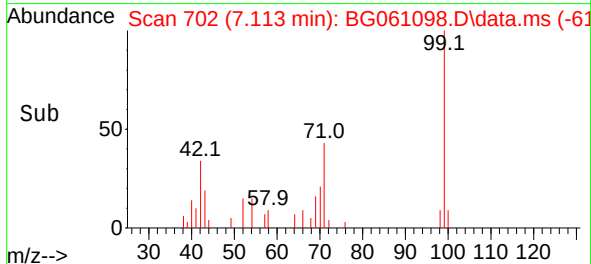


Tgt Ion: 99 Resp: 11083
Ion Ratio Lower Upper
99 100
42 34.2 29.2 43.8
71 42.7 39.7 59.5

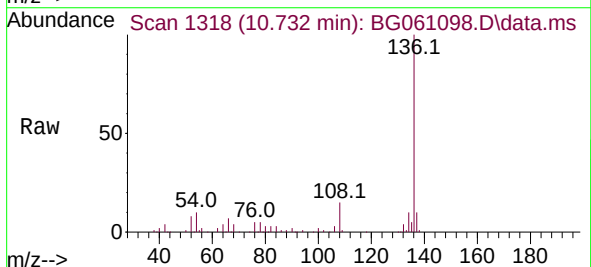
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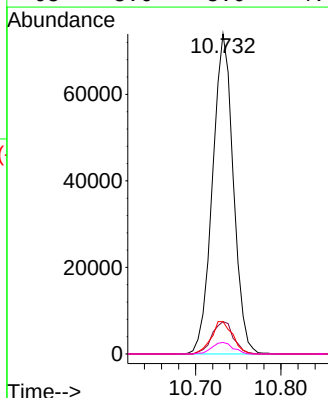
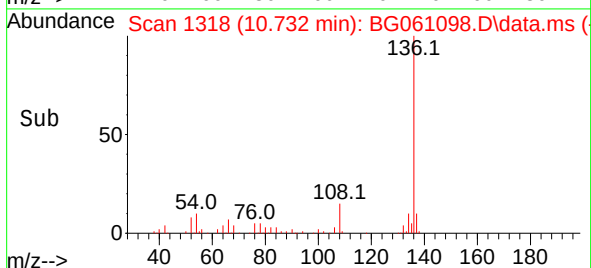
Reviewed By :Yogesh Patel 05/03/2024
Supervised By :mohammad ahmed 05/06/2024

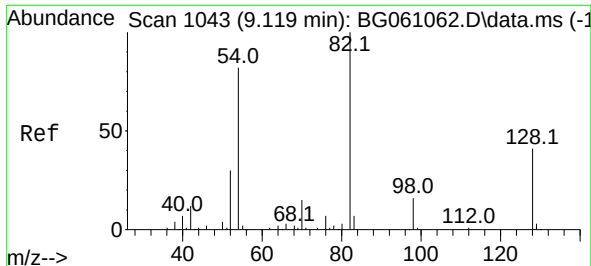


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.732 min Scan# 1318
Delta R.T. -0.026 min
Lab File: BG061098.D
Acq: 2 May 2024 18:10



Tgt Ion:136 Resp: 125290
Ion Ratio Lower Upper
136 100
137 10.1 7.8 11.6
54 10.1 8.1 12.1
68 3.6 3.0 4.4





#23

Nitrobenzene-d5

Concen: 3.539 ng

RT: 9.093 min Scan# 1043

Delta R.T. -0.026 min

Lab File: BG061098.D

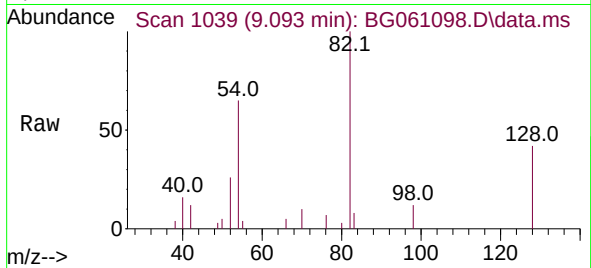
Acq: 2 May 2024 18:10

Instrument :

BNA_G

ClientSampleId :

H-4(0.5-1.5)DL



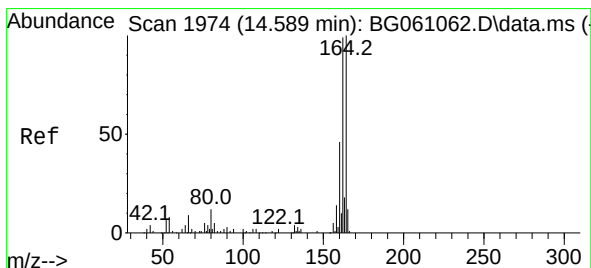
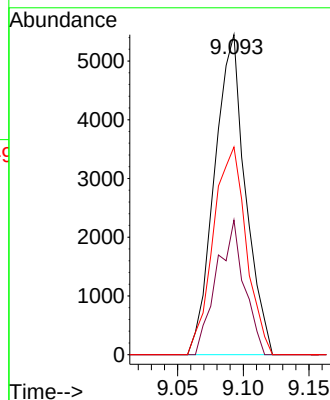
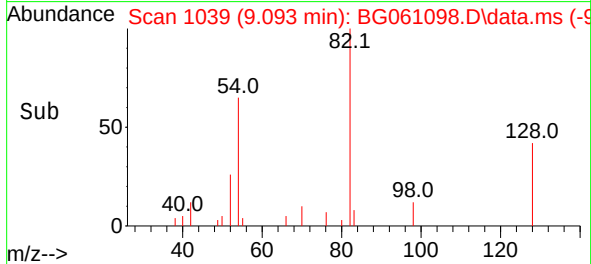
Tgt Ion: 82	Resp: 894
Ion Ratio	Lower Upper
82	100
128	42.1 32.7 49.1
54	64.9 65.6 98.4

Manual Integrations

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#39

Acenaphthene-d10

Concen: 20.000 ng

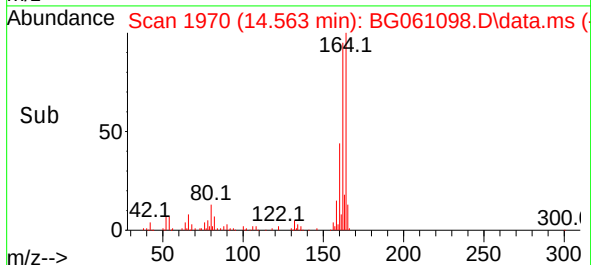
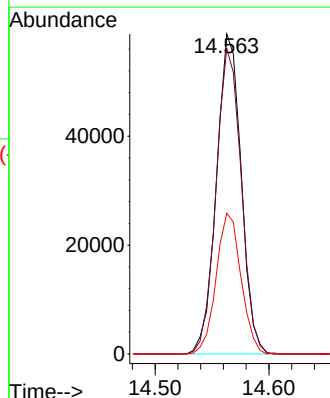
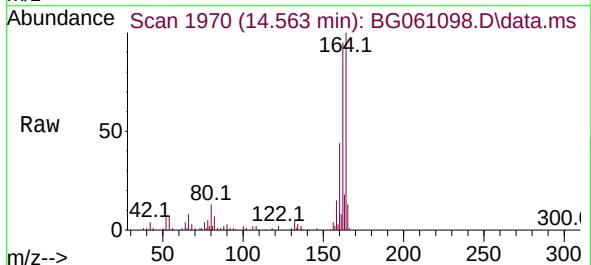
RT: 14.563 min Scan# 1970

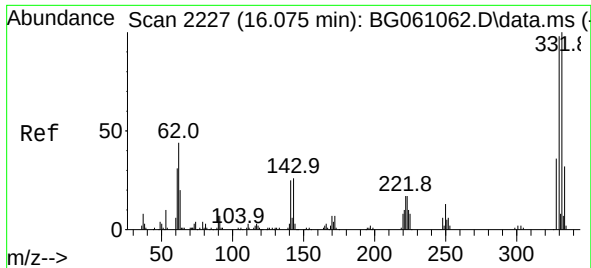
Delta R.T. -0.026 min

Lab File: BG061098.D

Acq: 2 May 2024 18:10

Tgt Ion:164	Resp: 88421
Ion Ratio	Lower Upper
164	100
162	95.4 79.4 119.2
160	43.9 37.0 55.6





#42
2,4,6-Tribromophenol
Concen: 4.723 ng
RT: 16.055 min Scan# 21
Delta R.T. -0.020 min
Lab File: BG061098.D
Acq: 2 May 2024 18:10

Instrument :

BNA_G

ClientSampleId :

H-4(0.5-1.5)DL

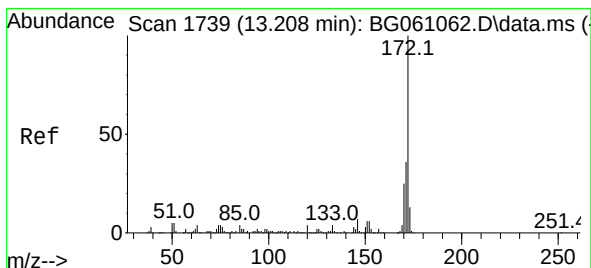
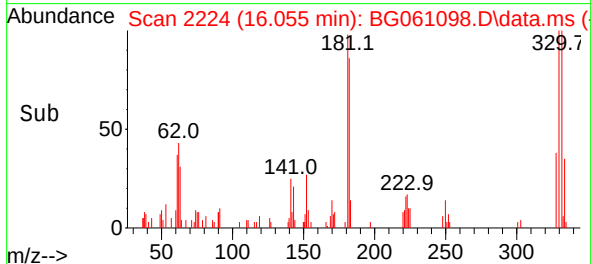
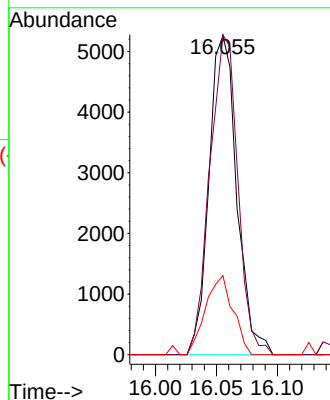
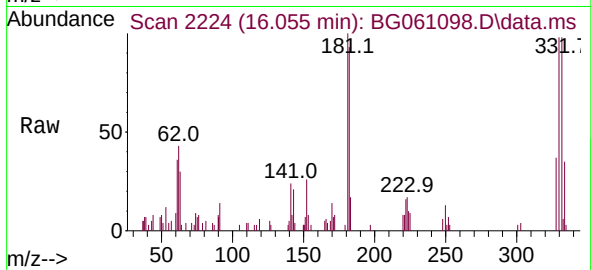
Tgt Ion:330 Resp: 834
Ion Ratio Lower Upper
330 100
332 100.8 78.6 117.8
141 24.5 20.5 30.7

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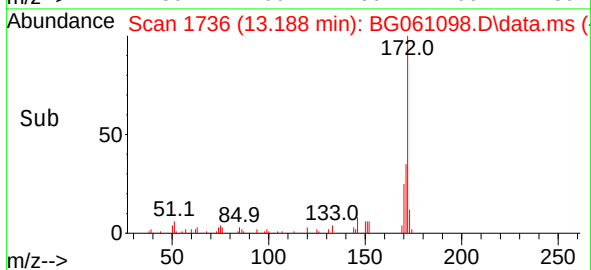
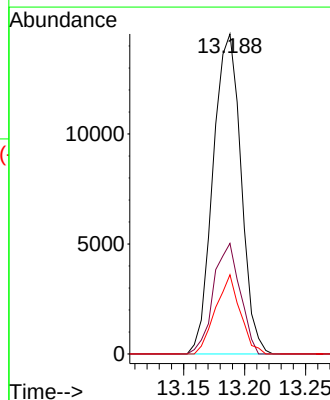
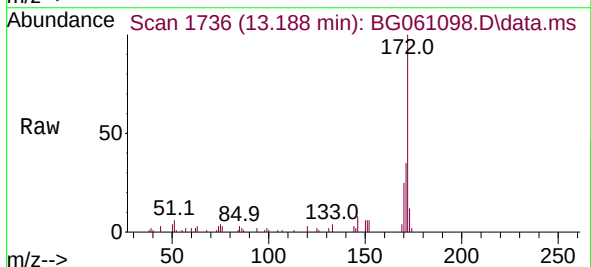
Reviewed By :Yogesh Patel 05/03/2024

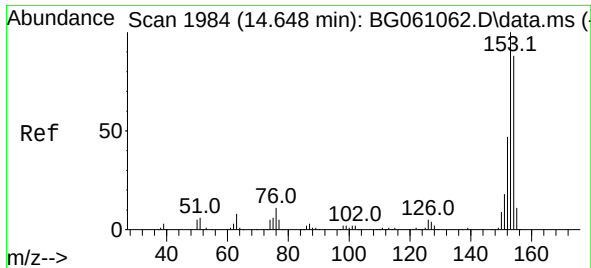
Supervised By :mohammad ahmed 05/06/2024



#45
2-Fluorobiphenyl
Concen: 3.876 ng
RT: 13.188 min Scan# 1736
Delta R.T. -0.020 min
Lab File: BG061098.D
Acq: 2 May 2024 18:10

Tgt Ion:172 Resp: 23177
Ion Ratio Lower Upper
172 100
171 34.5 29.0 43.6
170 24.8 20.2 30.4





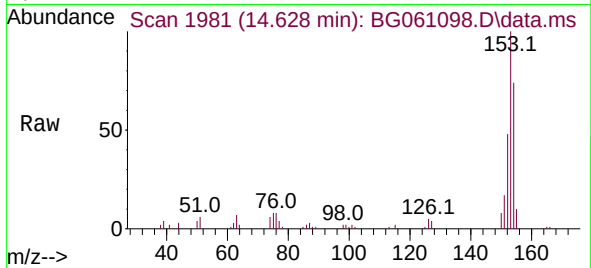
#52
Acenaphthene
Concen: 3.890 ng
RT: 14.628 min Scan# 1984
Delta R.T. -0.020 min
Lab File: BG061098.D
Acq: 2 May 2024 18:10

Instrument :

BNA_G

ClientSampleId :

H-4(0.5-1.5)DL



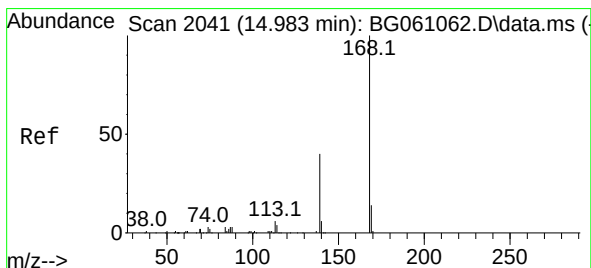
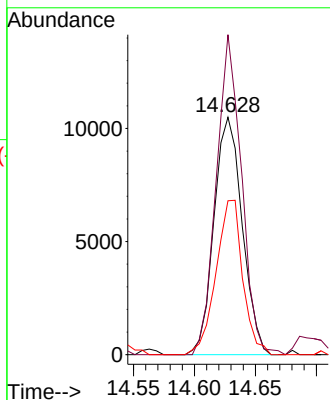
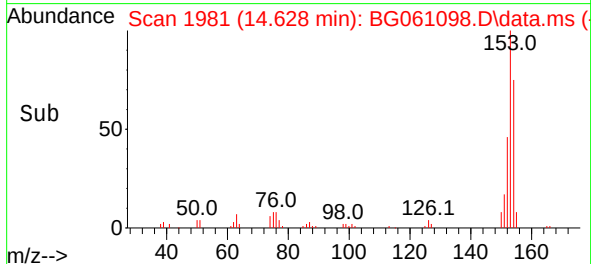
Tgt Ion:154 Resp: 16920
Ion Ratio Lower Upper
154 100
153 134.7 91.0 136.4
152 64.8 43.1 64.7

Manual Integrations

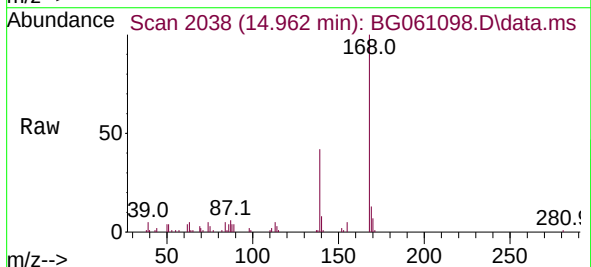
APPROVED

Reviewed By :Yogesh Patel 05/03/2024

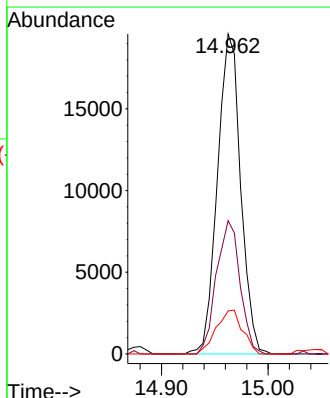
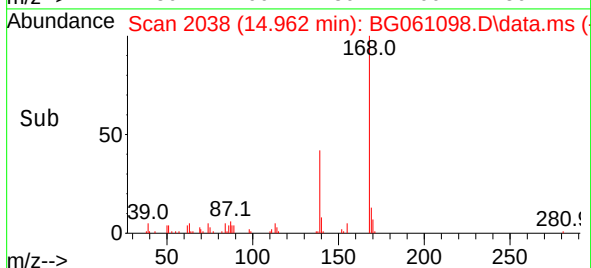
Supervised By :mohammad ahmed 05/06/2024

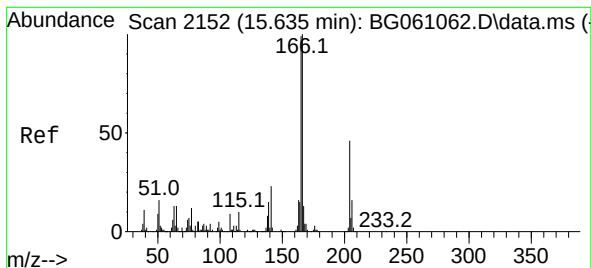


#55
Dibenzofuran
Concen: 4.028 ng
RT: 14.962 min Scan# 2038
Delta R.T. -0.020 min
Lab File: BG061098.D
Acq: 2 May 2024 18:10



Tgt Ion:168 Resp: 29593
Ion Ratio Lower Upper
168 100
139 41.6 32.2 48.4
169 13.5 11.4 17.2





#58

Fluorene

Concen: 6.657 ng

RT: 15.615 min Scan# 2152

Delta R.T. -0.020 min

Lab File: BG061098.D

Acq: 2 May 2024 18:10

Instrument :

BNA_G

ClientSampleId :

H-4(0.5-1.5)DL

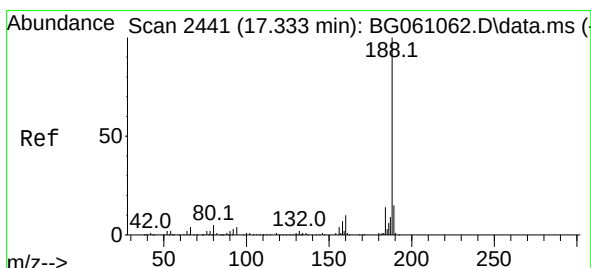
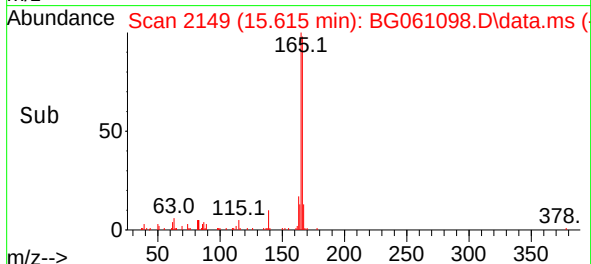
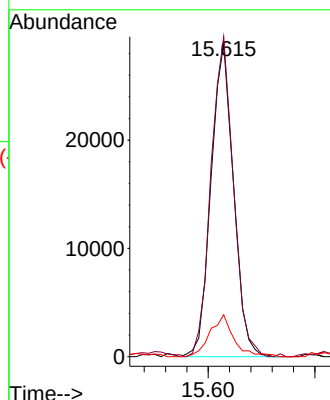
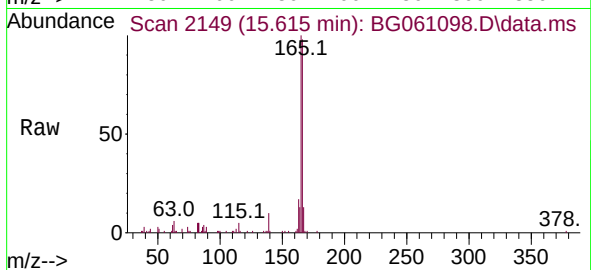
Tgt Ion:166	Resp:	42320
Ion Ratio	Lower	Upper
166	100	
165	102.3	78.9 118.3
167	13.4	10.6 15.8

Manual Integrations

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Supervised By :mohammad ahmed 05/06/2024



#64

Phenanthrene-d10

Concen: 20.000 ng

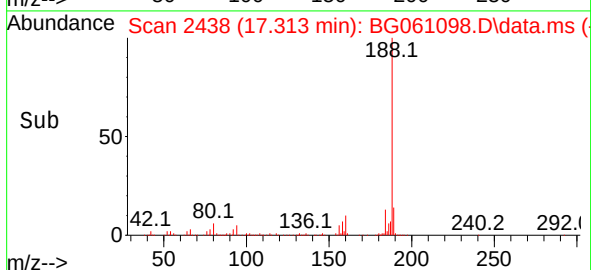
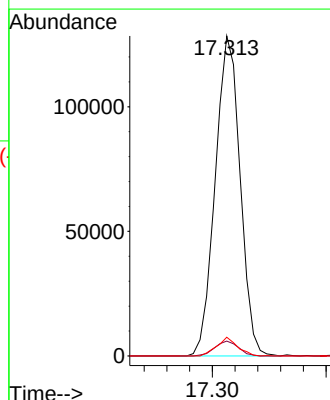
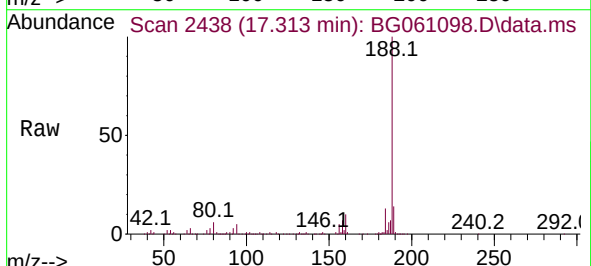
RT: 17.313 min Scan# 2438

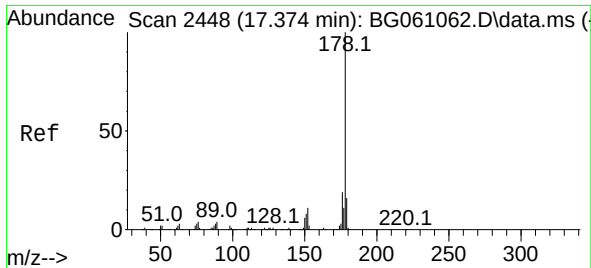
Delta R.T. -0.020 min

Lab File: BG061098.D

Acq: 2 May 2024 18:10

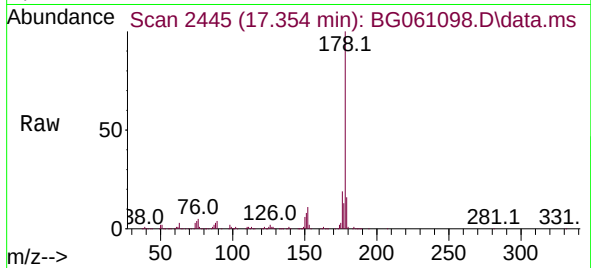
Tgt Ion:188	Resp:	194976
Ion Ratio	Lower	Upper
188	100	
94	4.7	3.6 5.4
80	5.9	4.2 6.2





#71
Phenanthrene
Concen: 41.743 ng
RT: 17.354 min Scan# 2445
Delta R.T. -0.020 min
Lab File: BG061098.D
Acq: 2 May 2024 18:10

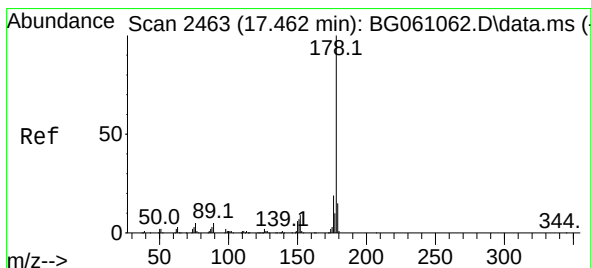
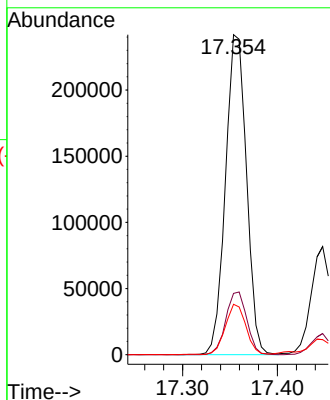
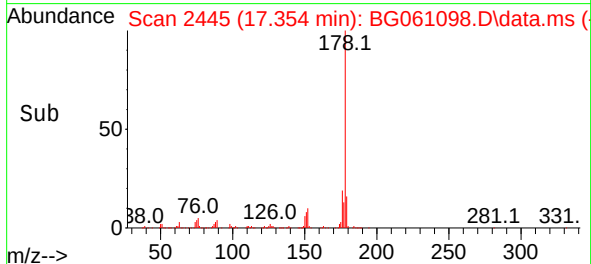
Instrument :
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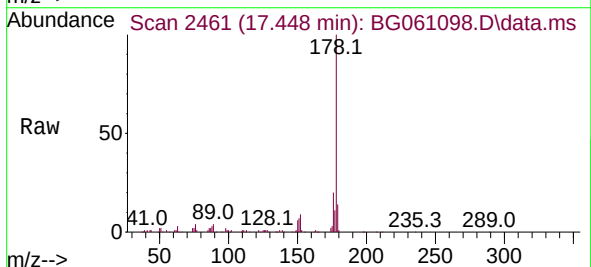
Tgt Ion:178 Resp: 372149
Ion Ratio Lower Upper
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176 19.1 15.5 23.3
179 15.8 12.6 19.0

Manual Integrations
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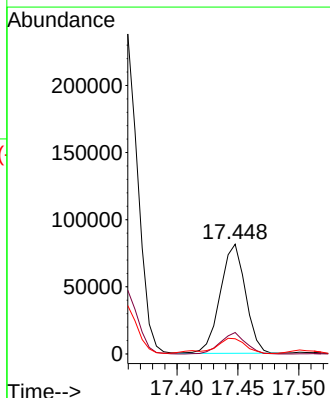
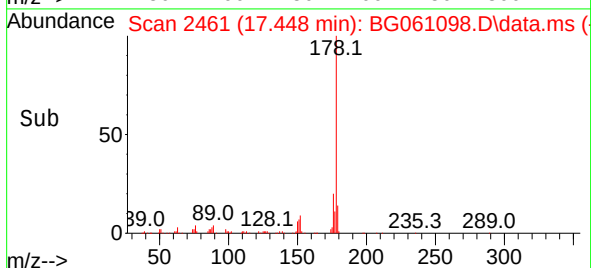
Reviewed By :Yogesh Patel 05/03/2024
Supervised By :mohammad ahmed 05/06/2024

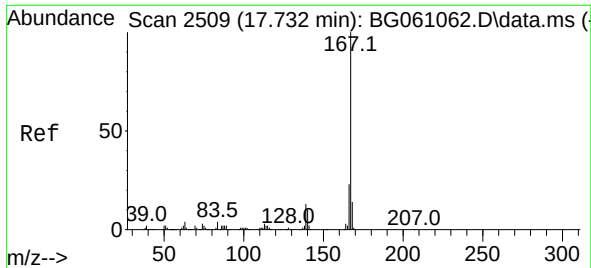


#72
Anthracene
Concen: 13.189 ng
RT: 17.448 min Scan# 2461
Delta R.T. -0.014 min
Lab File: BG061098.D
Acq: 2 May 2024 18:10



Tgt Ion:178 Resp: 117322
Ion Ratio Lower Upper
178 100
176 19.5 15.0 22.6
179 13.9 12.0 18.0





#73
 Carbazole
 Concen: 2.797 ng
 RT: 17.712 min Scan# 2506
 Delta R.T. -0.020 min
 Lab File: BG061098.D
 Acq: 2 May 2024 18:10

Instrument :

BNA_G

ClientSampleId :

H-4(0.5-1.5)DL

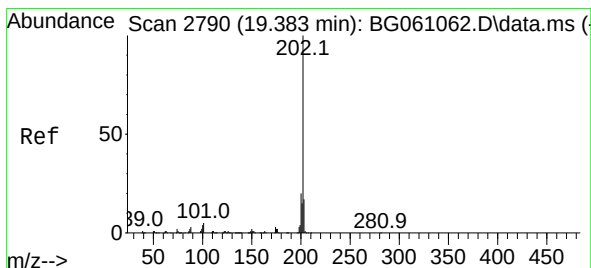
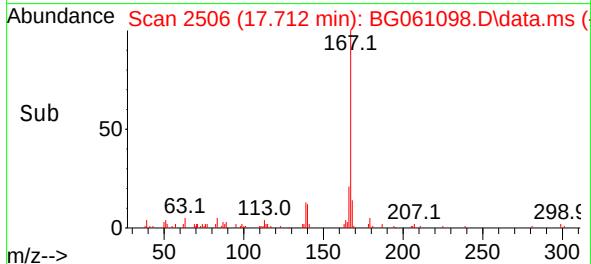
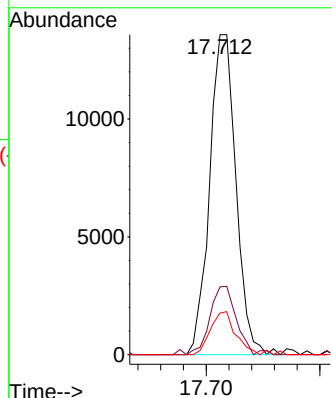
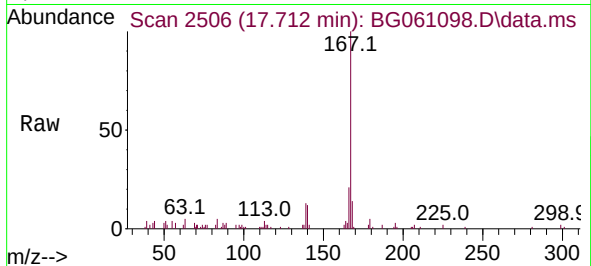
Tgt Ion:167 Resp: 2187
 Ion Ratio Lower Upper
 167 100
 166 21.2 18.7 28.1
 139 13.0 10.6 15.8

Manual Integrations

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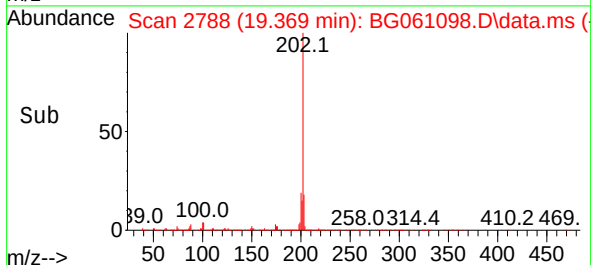
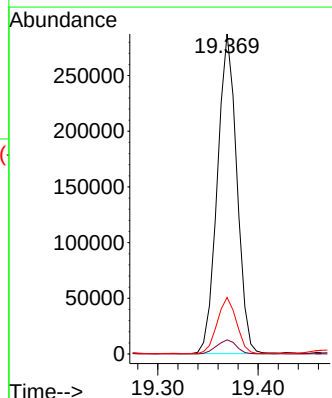
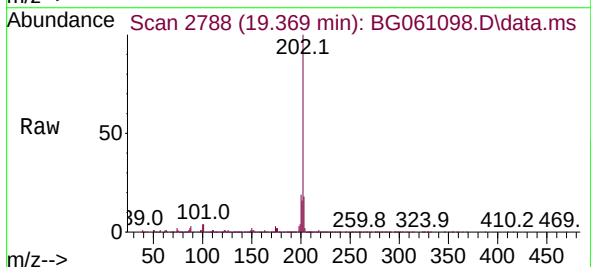
Reviewed By :Yogesh Patel 05/03/2024

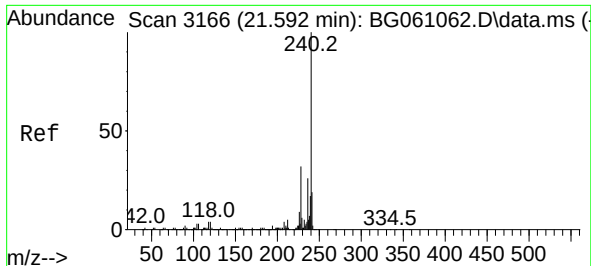
Supervised By :mohammad ahmed 05/06/2024



#75
 Fluoranthene
 Concen: 31.667 ng
 RT: 19.369 min Scan# 2788
 Delta R.T. -0.014 min
 Lab File: BG061098.D
 Acq: 2 May 2024 18:10

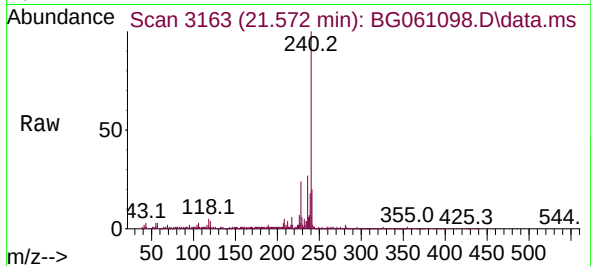
Tgt Ion:202 Resp: 386770
 Ion Ratio Lower Upper
 202 100
 101 4.4 0.0 24.7
 203 17.6 0.0 37.1





#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.572 min Scan# 3166
Delta R.T. -0.020 min
Lab File: BG061098.D
Acq: 2 May 2024 18:10

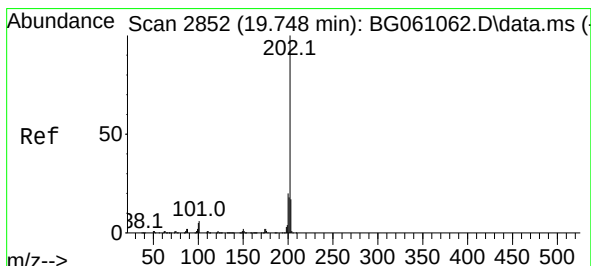
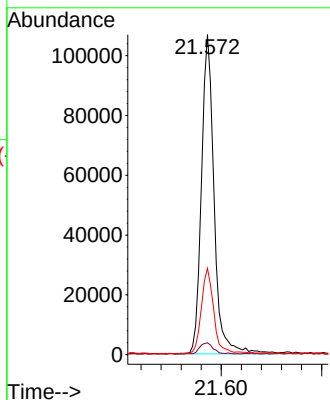
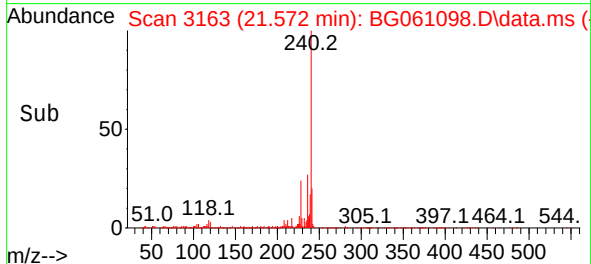
Instrument :
BNA_G
ClientSampleId :
H-4(0.5-1.5)DL



Tgt Ion:240 Resp: 18728
Ion Ratio Lower Upper
240 100
120 3.7 3.2 4.8
236 27.0 21.0 31.6

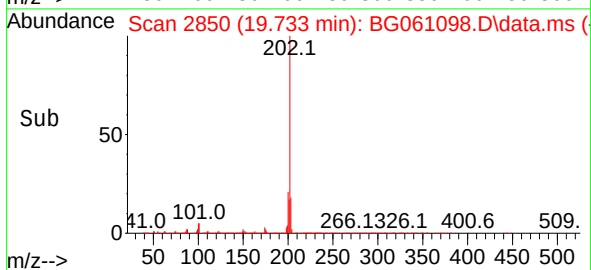
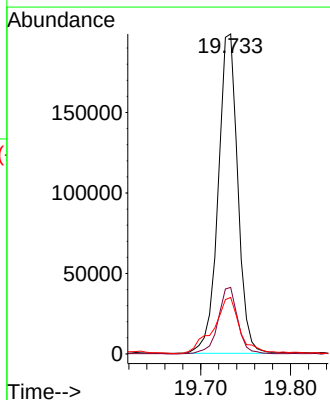
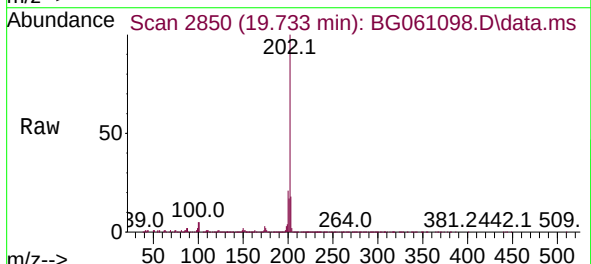
Manual Integrations
APPROVED

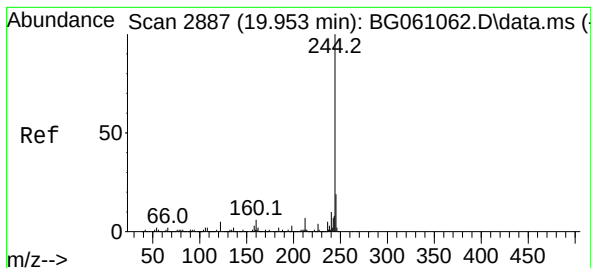
Reviewed By :Yogesh Patel 05/03/2024
Supervised By :mohammad ahmed 05/06/2024



#78
Pyrene
Concen: 25.212 ng
RT: 19.733 min Scan# 2850
Delta R.T. -0.014 min
Lab File: BG061098.D
Acq: 2 May 2024 18:10

Tgt Ion:202 Resp: 300194
Ion Ratio Lower Upper
202 100
200 20.8 16.2 24.4
203 17.7 13.3 19.9





#79

Terphenyl-d14

Concen: 3.225 ng

RT: 19.927 min Scan# 21

Delta R.T. -0.026 min

Lab File: BG061098.D

Acq: 2 May 2024 18:10

Instrument :

BNA_G

ClientSampleId :

H-4(0.5-1.5)DL

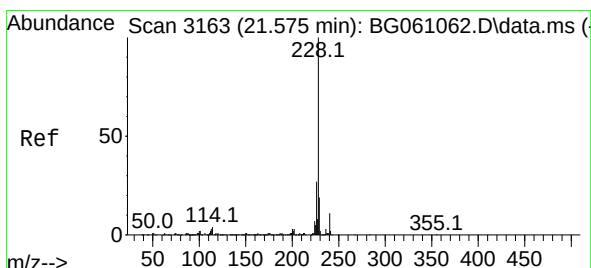
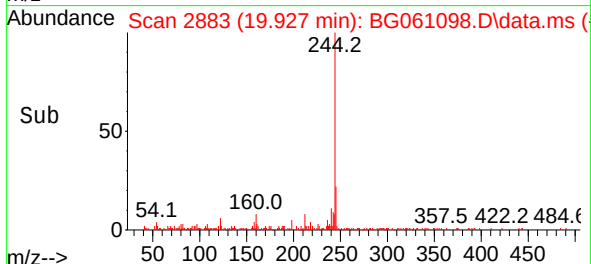
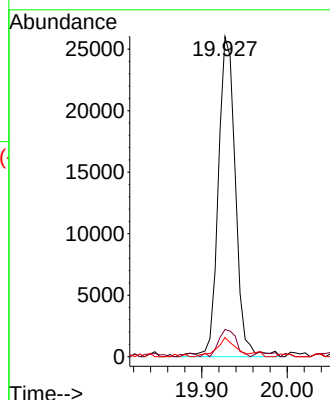
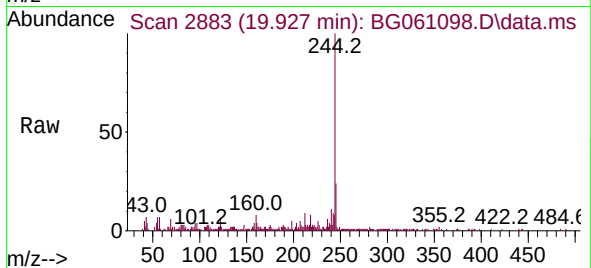
Tgt Ion:244	Resp:	3631
Ion Ratio	Lower	Upper
244	100	
212	8.5	5.7 8.5
122	6.0	4.2 6.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 05/03/2024

Supervised By :mohammad ahmed 05/06/2024



#81

Benzo(a)anthracene

Concen: 11.705 ng

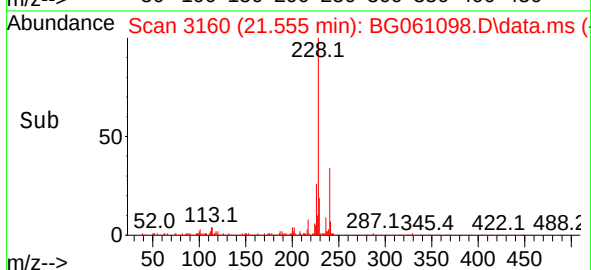
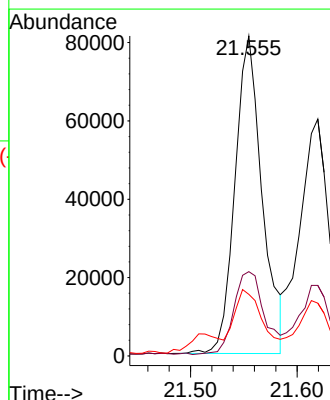
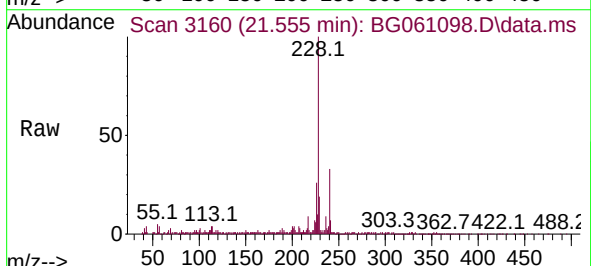
RT: 21.555 min Scan# 3160

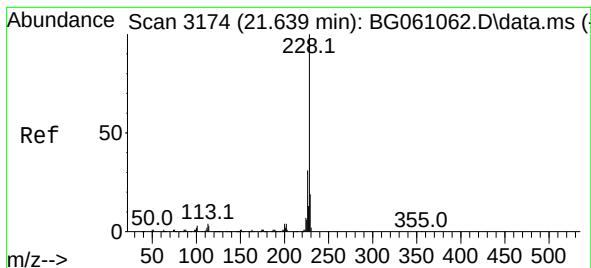
Delta R.T. -0.020 min

Lab File: BG061098.D

Acq: 2 May 2024 18:10

Tgt Ion:228	Resp:	143453
Ion Ratio	Lower	Upper
228	100	
226	26.3	21.6 32.4
229	19.3	15.0 22.4





#83

Chrysene

Concen: 10.325 ng m

RT: 21.619 min Scan# 3171

Delta R.T. -0.020 min

Lab File: BG061098.D

Acq: 2 May 2024 18:10

Instrument :

BNA_G

ClientSampleId :

H-4(0.5-1.5)DL

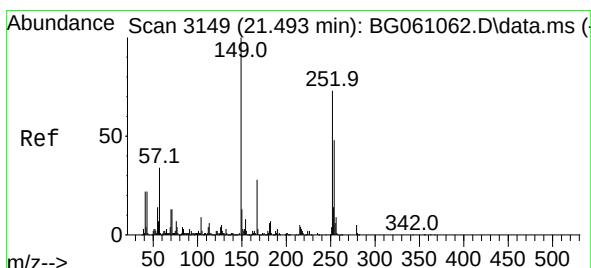
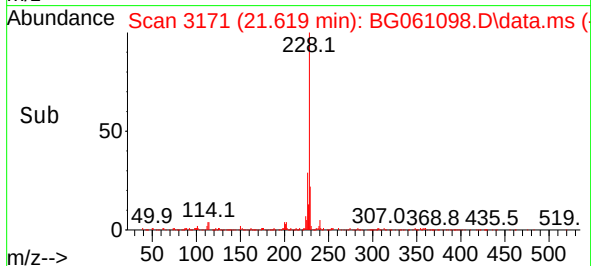
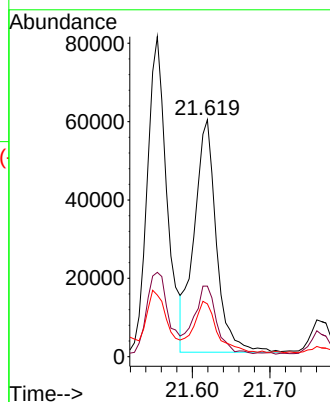
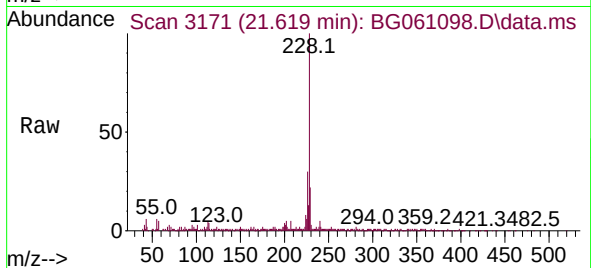
Tgt Ion:	228	Resp:	11855
Ion Ratio	Lower	Upper	
228	100		
226	29.8	24.4	36.6
229	22.3	14.8	22.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 05/03/2024

Supervised By :mohammad ahmed 05/06/2024



#84

Bis(2-ethylhexyl)phthalate

Concen: 2.195 ng

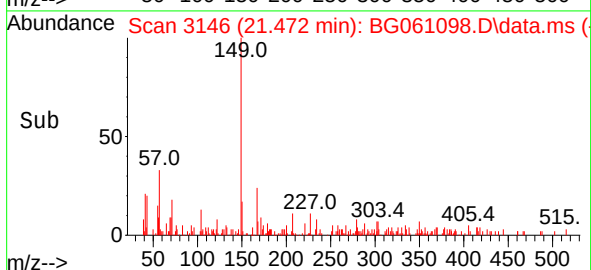
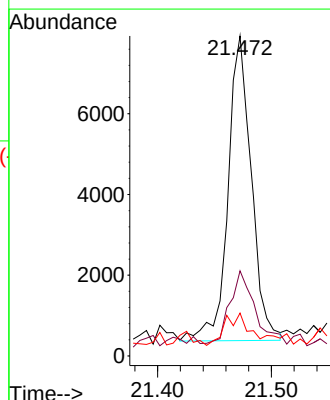
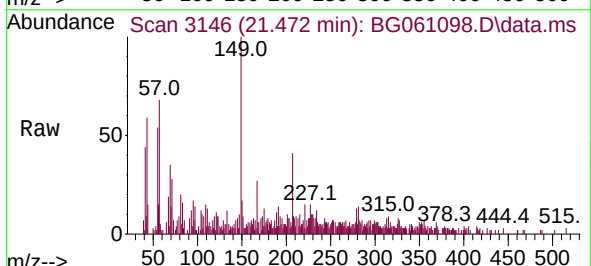
RT: 21.472 min Scan# 3146

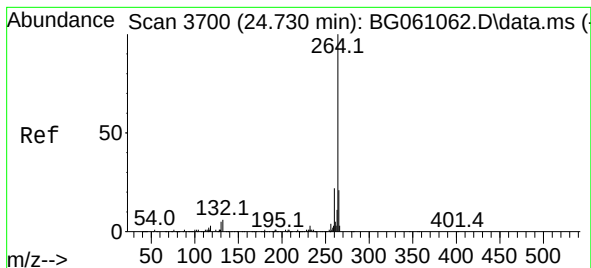
Delta R.T. -0.020 min

Lab File: BG061098.D

Acq: 2 May 2024 18:10

Tgt Ion:	149	Resp:	10801
Ion Ratio	Lower	Upper	
149	100		
167	26.6	22.1	33.1
279	13.4	4.1	6.1





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.698 min Scan# 3

Delta R.T. -0.032 min

Lab File: BG061098.D

Acq: 2 May 2024 18:10

Instrument :

BNA_G

ClientSampleId :

H-4(0.5-1.5)DL

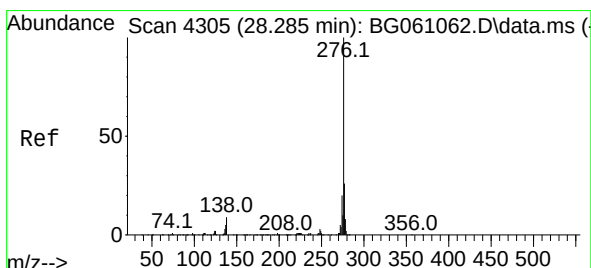
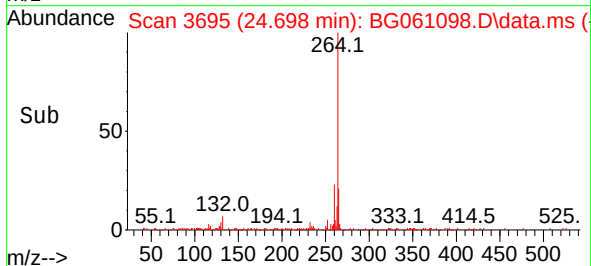
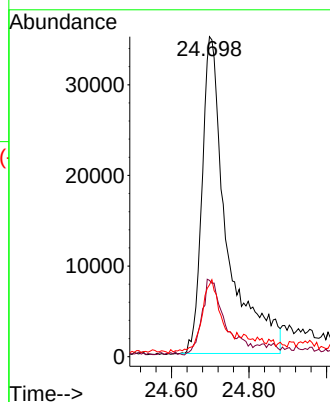
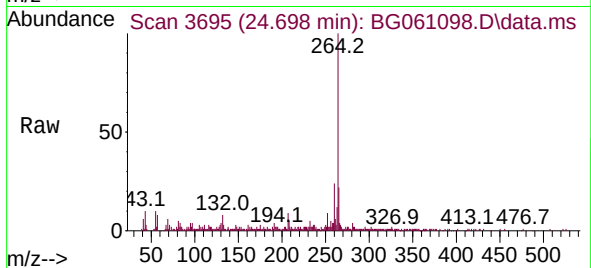
Tgt Ion:264	Resp:	15619
Ion Ratio	Lower	Upper
264	100	
260	23.9	17.7 26.5
265	22.5	16.4 24.6

Manual Integrations

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Reviewed By :Yogesh Patel 05/03/2024

Supervised By :mohammad ahmed 05/06/2024



#87

Indeno(1,2,3-cd)pyrene

Concen: 2.075 ng m

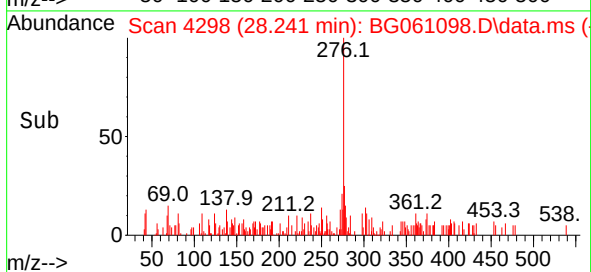
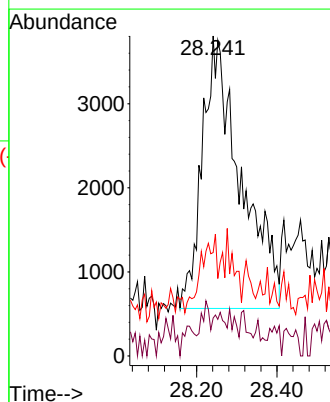
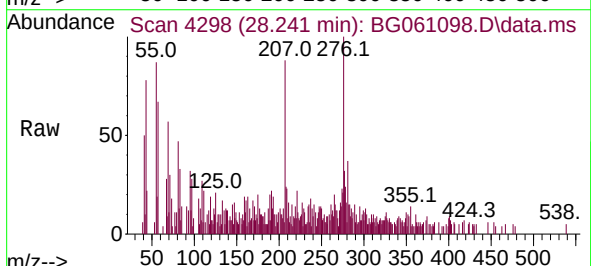
RT: 28.241 min Scan# 4298

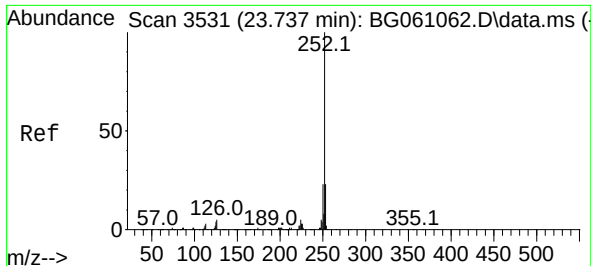
Delta R.T. -0.044 min

Lab File: BG061098.D

Acq: 2 May 2024 18:10

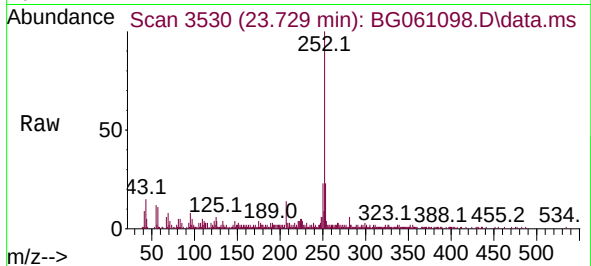
Tgt Ion:276	Resp:	21481
Ion Ratio	Lower	Upper
276	100	
138	1.1	5.1 7.7#
277	12.5	20.6 30.8#





#88
Benzo(b)fluoranthene
Concen: 10.257 ng
RT: 23.729 min Scan# 3531
Delta R.T. -0.008 min
Lab File: BG061098.D
Acq: 2 May 2024 18:10

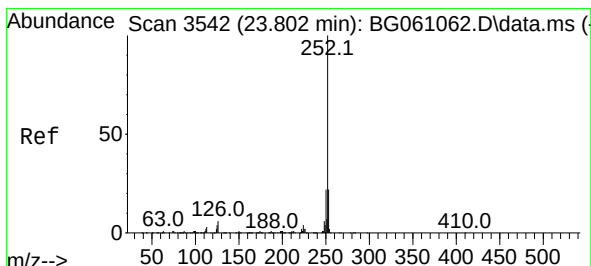
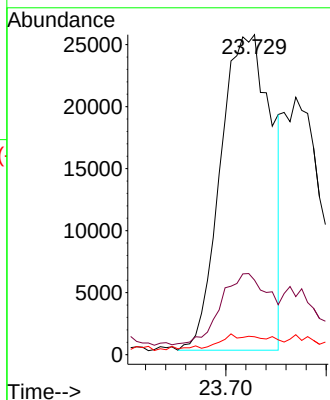
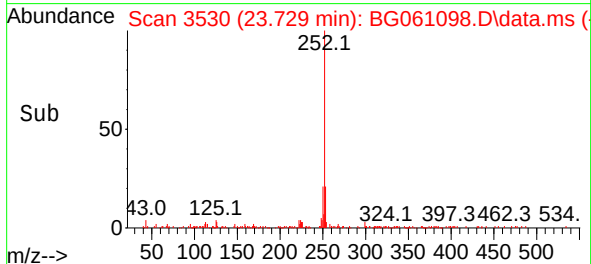
Instrument :
BNA_G
ClientSampleId :
H-4(0.5-1.5)DL



Tgt Ion:252 Resp: 89524
Ion Ratio Lower Upper
252 100
253 23.3 18.2 27.2
125 5.6 3.4 5.0

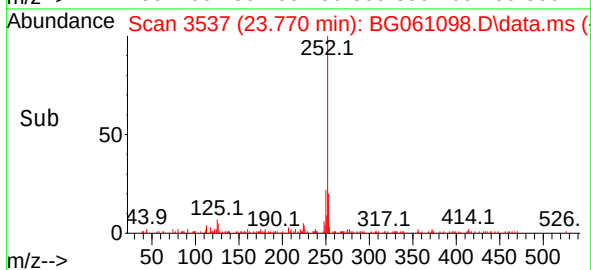
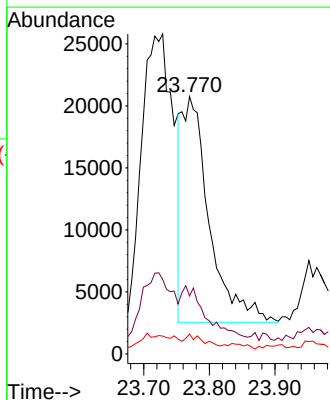
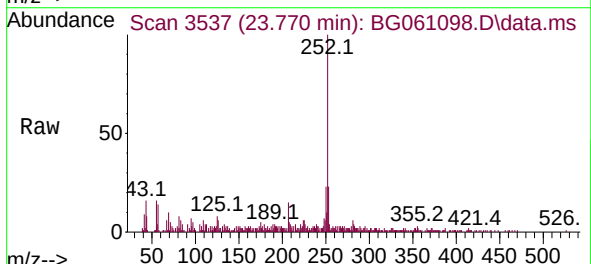
Manual Integrations
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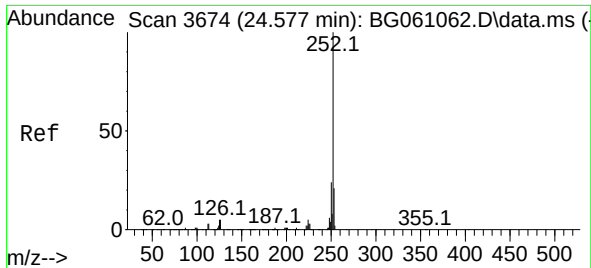
Reviewed By :Yogesh Patel 05/03/2024
Supervised By :mohammad ahmed 05/06/2024



#89
Benzo(k)fluoranthene
Concen: 6.337 ng m
RT: 23.770 min Scan# 3537
Delta R.T. -0.032 min
Lab File: BG061098.D
Acq: 2 May 2024 18:10

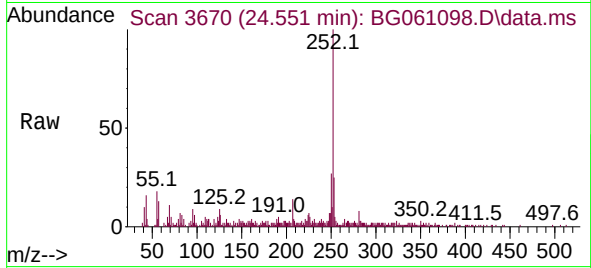
Tgt Ion:252 Resp: 53207
Ion Ratio Lower Upper
252 100
253 22.5 17.3 25.9
125 7.7 3.2 4.8





#90
 Benzo(a)pyrene
 Concen: 8.897 ng m
 RT: 24.551 min Scan# 3
 Delta R.T. -0.026 min
 Lab File: BG061098.D
 Acq: 2 May 2024 18:10

Instrument :
 BNA_G
 ClientSampleId :
 H-4(0.5-1.5)DL



Tgt Ion:252 Resp: 67652
 Ion Ratio Lower Upper
 252 100
 253 25.2 16.9 25.3
 125 9.1 3.8 5.8

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 05/03/2024
 Supervised By :mohammad ahmed 05/06/2024

