

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG042524\
 Data File : BG061042.D
 Acq On : 25 Apr 2024 18:03
 Operator : MA/JU
 Sample : P2258-01 2X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 OR-03-042424

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 04/26/2024
 Supervised By :mohammad ahmed 04/27/2024

Quant Time: Apr 25 18:50:51 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG042024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 22 04:22:00 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.947	152	30458	20.000	ng	0.00
21) Naphthalene-d8	10.738	136	111990	20.000	ng	# 0.00
39) Acenaphthene-d10	14.569	164	81827	20.000	ng	0.00
64) Phenanthrene-d10	17.318	188	187557	20.000	ng	0.00
76) Chrysene-d12	21.584	240	191390	20.000	ng	0.00
86) Perylene-d12	24.716	264	151983	20.000	ng	# 0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.532	112	76389	50.731	ng	0.00
7) Phenol-d6	7.113	99	92584	41.440	ng	0.00
23) Nitrobenzene-d5	9.099	82	63557	25.498	ng	0.00
42) 2,4,6-Tribromophenol	16.061	330	68574	38.163	ng	0.00
45) 2-Fluorobiphenyl	13.194	172	177298	29.988	ng	0.00
79) Terphenyl-d14	19.939	244	320380	25.984	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.785	128	15196	2.478	ng	# 97
37) 2-Methylnaphthalene	12.395	142	11642	2.415	ng	99
38) 1-Methylnaphthalene	12.612	142	12060	2.681	ng	95
52) Acenaphthene	14.633	154	22541	5.212	ng	96
55) Dibenzofuran	14.968	168	26284	3.520	ng	98
58) Fluorene	15.620	166	49137	7.795	ng	# 98
71) Phenanthrene	17.365	178	441086	46.074	ng	99
72) Anthracene	17.454	178	107527	10.906	ng	99
73) Carbazole	17.718	167	17212	2.102	ng	# 93
75) Fluoranthene	19.381	202	699126	55.026	ng	96
78) Pyrene	19.739	202	634039	48.654	ng	98
81) Benzo(a)anthracene	21.561	228	310971	23.110	ng	95
83) Chrysene	21.625	228	284985	22.245	ng	97
87) Indeno(1,2,3-cd)pyrene	28.270	276	67461m	6.399	ng	
88) Benzo(b)fluoranthene	23.729	252	230062	26.712	ng	# 97
89) Benzo(k)fluoranthene	23.787	252	120086m	13.812	ng	
90) Benzo(a)pyrene	24.563	252	168115	20.166	ng	98
92) Benzo(g,h,i)perylene	29.363	276	59405m	6.955	ng	

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

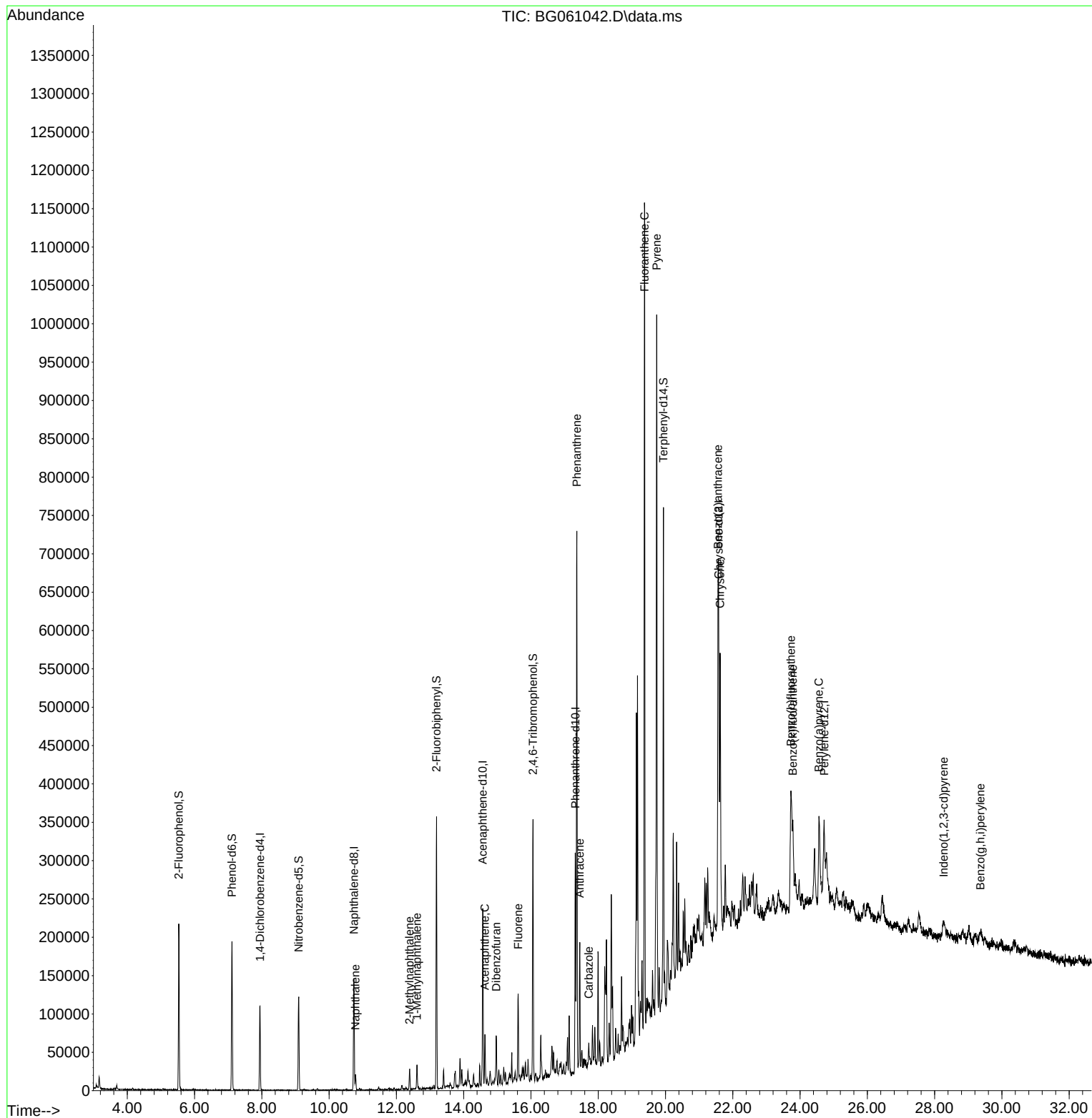
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG042524\
Data File : BG061042.D
Acq On : 25 Apr 2024 18:03
Operator : MA/JU
Sample : P2258-01 2X
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ALS Vial : 12 Sample Multiplier: 1

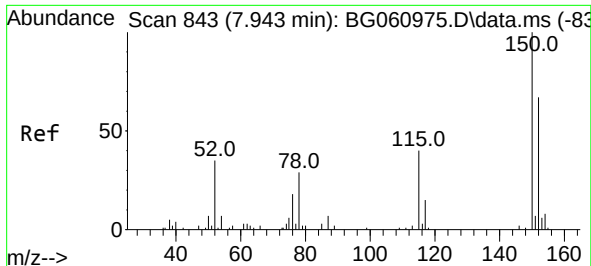
Instrument :
BNA_G
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OR-03-042424

Quant Time: Apr 25 18:50:51 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG042024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 22 04:22:00 2024
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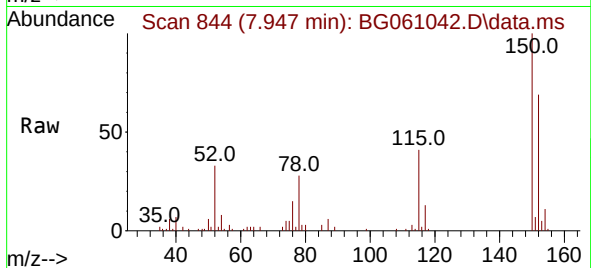
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.947 min Scan# 843
Delta R.T. 0.004 min
Lab File: BG061042.D
Acq: 25 Apr 2024 18:03

Instrument :

BNA_G

ClientSampleId :

OR-03-042424



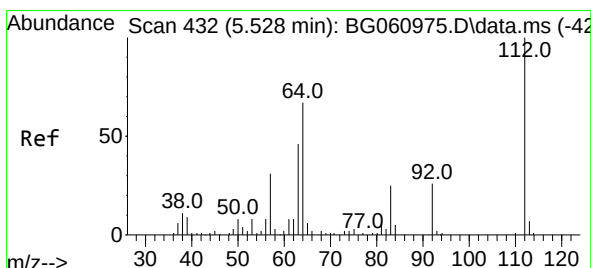
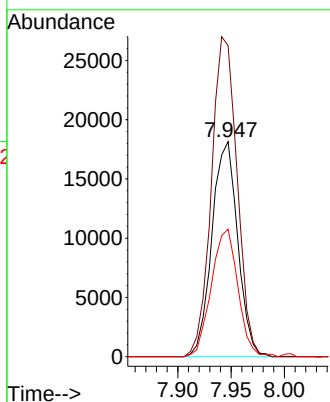
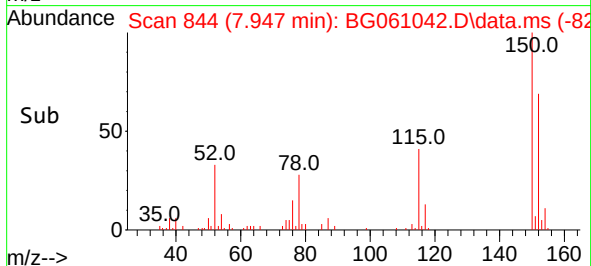
Tgt Ion:152 Resp: 30458
Ion Ratio Lower Upper
152 100
150 144.6 118.6 178.0
115 59.3 47.4 71.0

Manual Integrations

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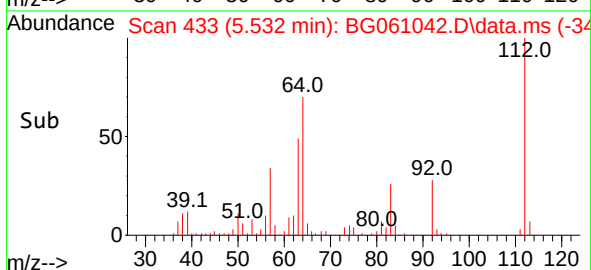
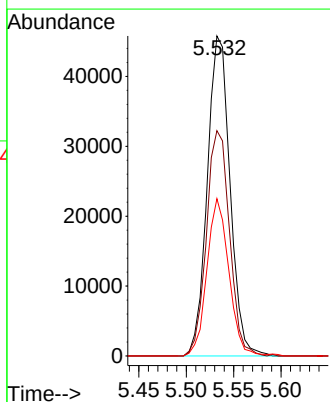
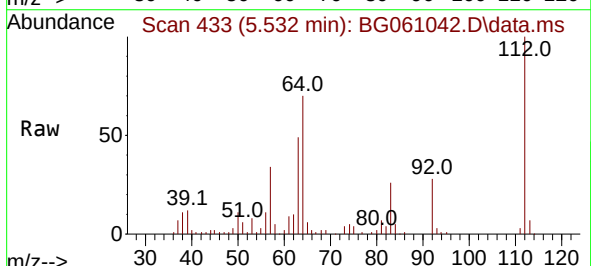
Reviewed By :Yogesh Patel 04/26/2024

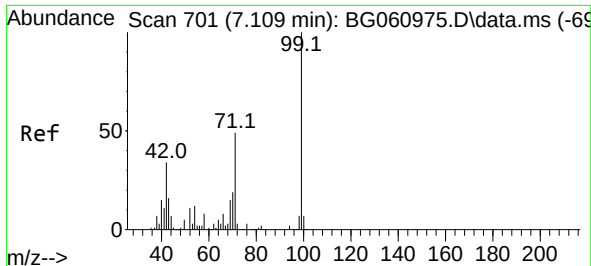
Supervised By :mohammad ahmed 04/27/2024



#5
2-Fluorophenol
Concen: 50.731 ng
RT: 5.532 min Scan# 433
Delta R.T. 0.004 min
Lab File: BG061042.D
Acq: 25 Apr 2024 18:03

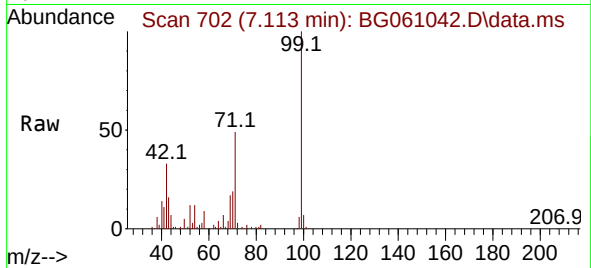
Tgt Ion:112 Resp: 76389
Ion Ratio Lower Upper
112 100
64 70.4 53.7 80.5
63 49.1 37.0 55.6





#7
Phenol-d6
Concen: 41.440 ng
RT: 7.113 min Scan# 701
Delta R.T. 0.004 min
Lab File: BG061042.D
Acq: 25 Apr 2024 18:03

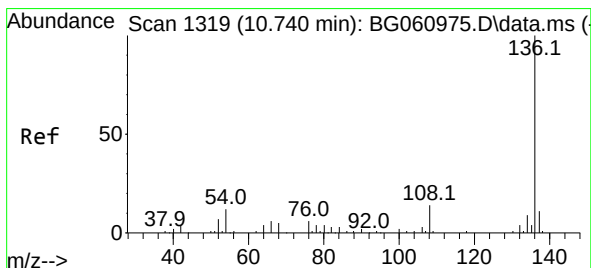
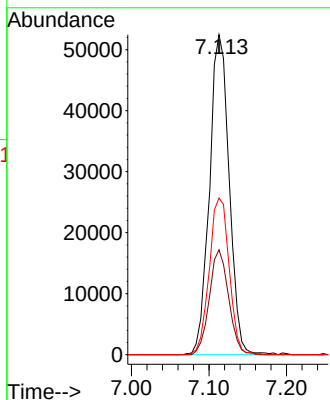
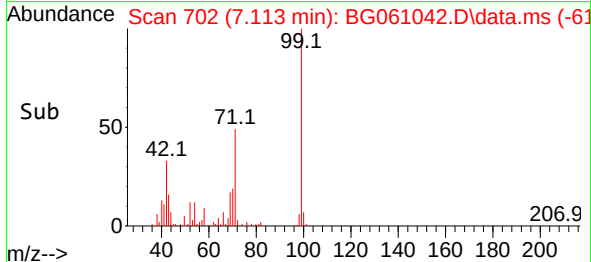
Instrument :
BNA_G
ClientSampleId :
OR-03-042424



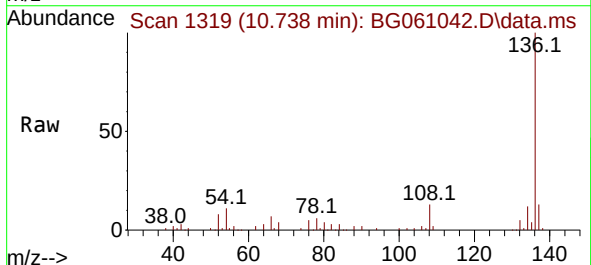
Tgt Ion: 99 Resp: 92584
Ion Ratio Lower Upper
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42 32.7 27.2 40.8
71 48.9 38.8 58.2

Manual Integrations
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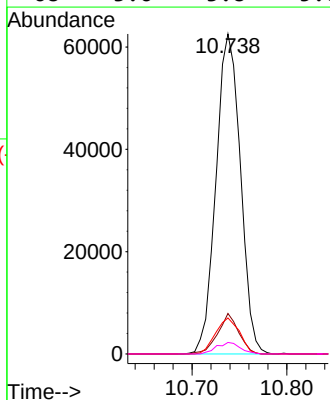
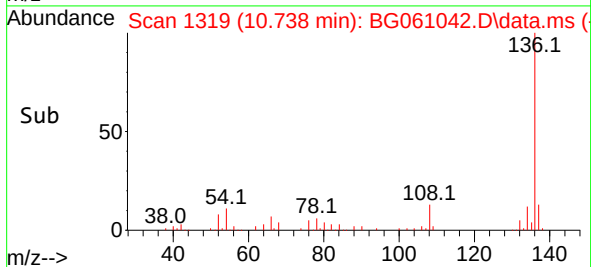
Reviewed By :Yogesh Patel 04/26/2024
Supervised By :mohammad ahmed 04/27/2024

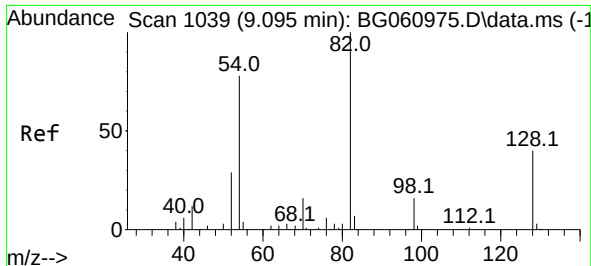


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.738 min Scan# 1319
Delta R.T. -0.002 min
Lab File: BG061042.D
Acq: 25 Apr 2024 18:03



Tgt Ion:136 Resp: 111990
Ion Ratio Lower Upper
136 100
137 12.7 8.5 12.7
54 11.2 9.4 14.0
68 3.6 3.8 5.6#





#23

Nitrobenzene-d5

Concen: 25.498 ng

RT: 9.099 min Scan# 1040

Delta R.T. 0.004 min

Lab File: BG061042.D

Acq: 25 Apr 2024 18:03

Instrument :

BNA_G

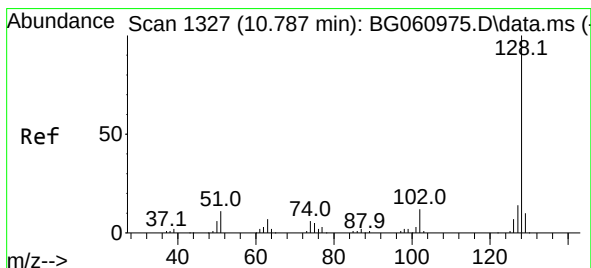
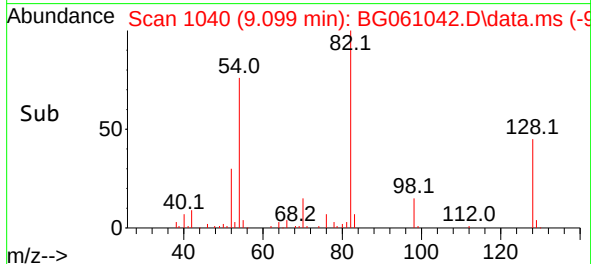
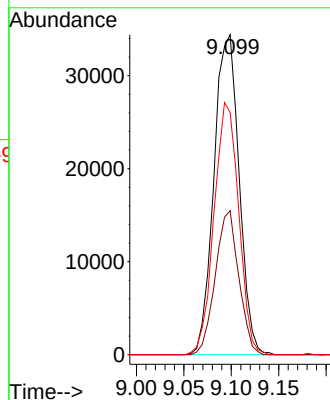
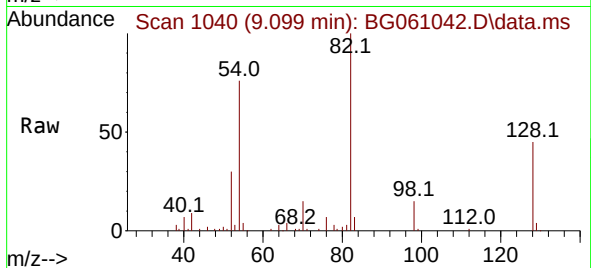
ClientSampleId :

OR-03-042424

Tgt Ion: 82 Resp: 6355
 Ion Ratio Lower Upper
 82 100
 128 45.0 32.1 48.1
 54 75.7 62.3 93.5

Manual Integrations
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Reviewed By :Yogesh Patel 04/26/2024
 Supervised By :mohammad ahmed 04/27/2024



#31

Naphthalene

Concen: 2.478 ng

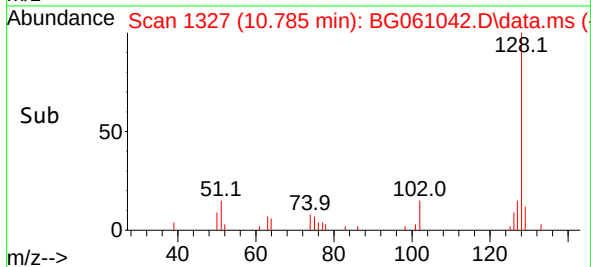
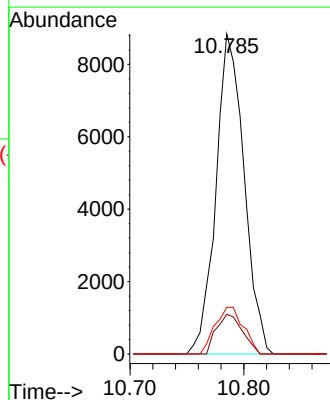
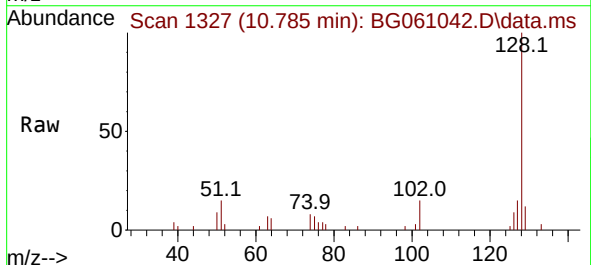
RT: 10.785 min Scan# 1327

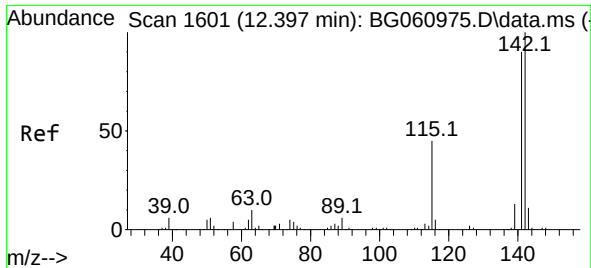
Delta R.T. -0.002 min

Lab File: BG061042.D

Acq: 25 Apr 2024 18:03

Tgt Ion:128 Resp: 15196
 Ion Ratio Lower Upper
 128 100
 129 12.4 8.2 12.4#
 127 14.5 11.4 17.2





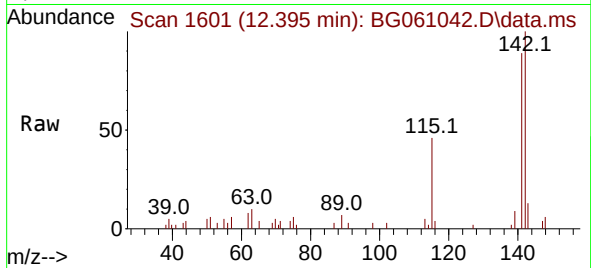
#37
2-Methylnaphthalene
Concen: 2.415 ng
RT: 12.395 min Scan# 1601
Delta R.T. -0.002 min
Lab File: BG061042.D
Acq: 25 Apr 2024 18:03

Instrument :

BNA_G

ClientSampleId :

OR-03-042424



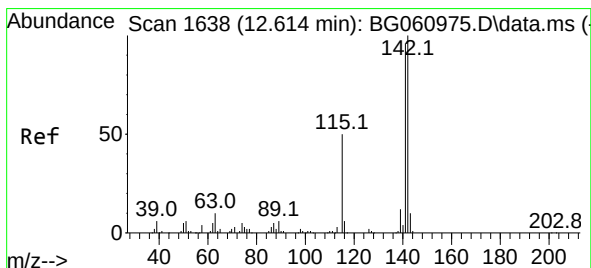
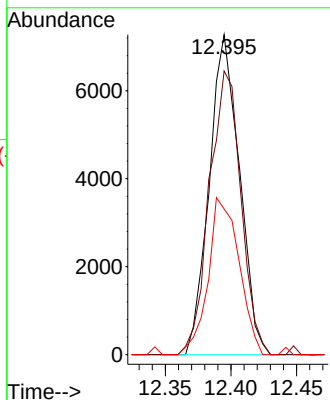
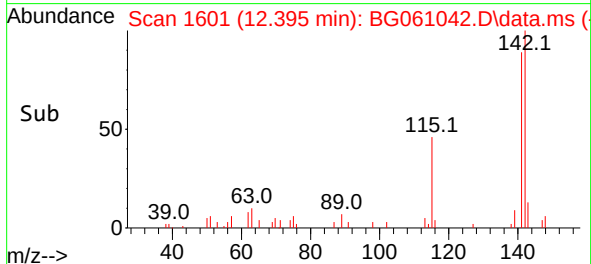
Tgt Ion:142 Resp: 11642
Ion Ratio Lower Upper
142 100
141 88.7 72.2 108.4
115 45.6 35.9 53.9

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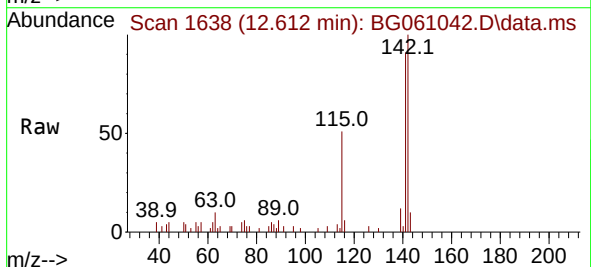
APPROVED

Reviewed By :Yogesh Patel 04/26/2024

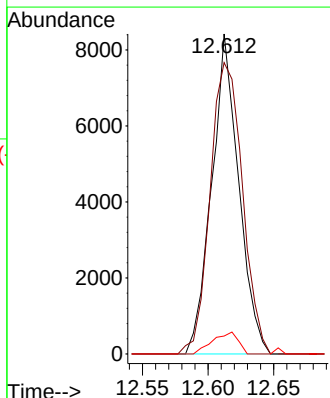
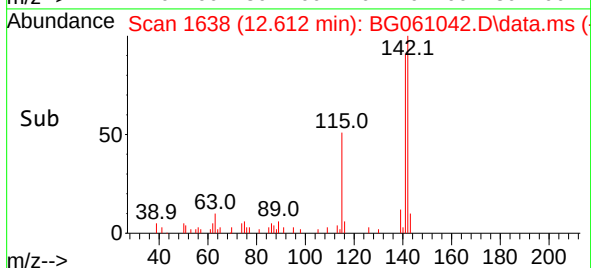
Supervised By :mohammad ahmed 04/27/2024

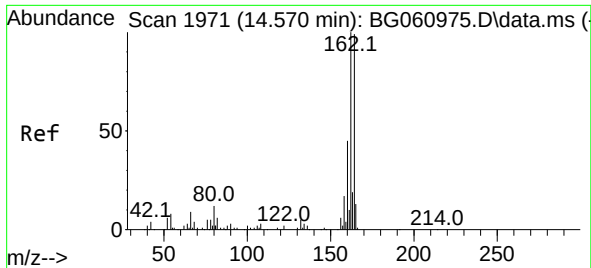


#38
1-Methylnaphthalene
Concen: 2.681 ng
RT: 12.612 min Scan# 1638
Delta R.T. -0.002 min
Lab File: BG061042.D
Acq: 25 Apr 2024 18:03



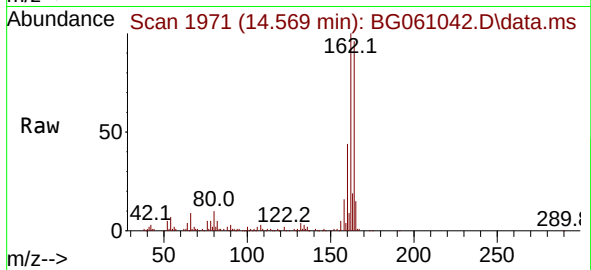
Tgt Ion:142 Resp: 12060
Ion Ratio Lower Upper
142 100
141 91.1 76.8 115.2
116 5.6 4.4 6.6





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.569 min Scan# 1971
Delta R.T. -0.002 min
Lab File: BG061042.D
Acq: 25 Apr 2024 18:03

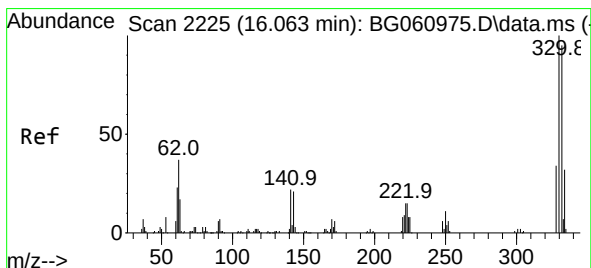
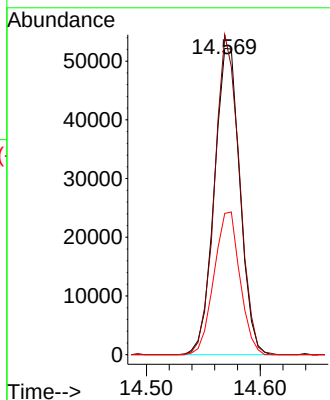
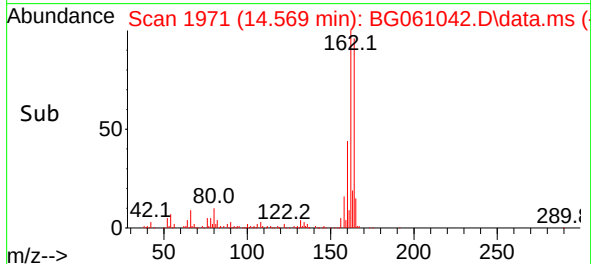
Instrument :
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ClientSampleId :
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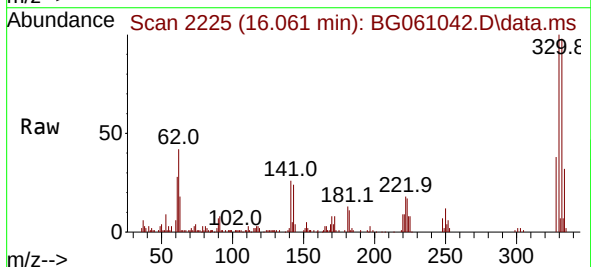
Tgt Ion:164 Resp: 81827
Ion Ratio Lower Upper
164 100
162 104.5 81.2 121.8
160 46.1 36.2 54.2

Manual Integrations
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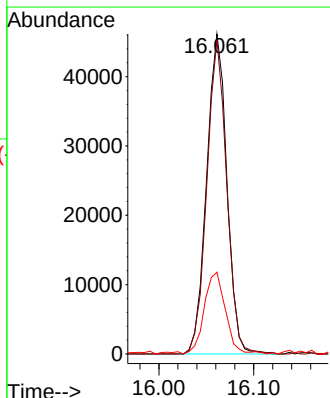
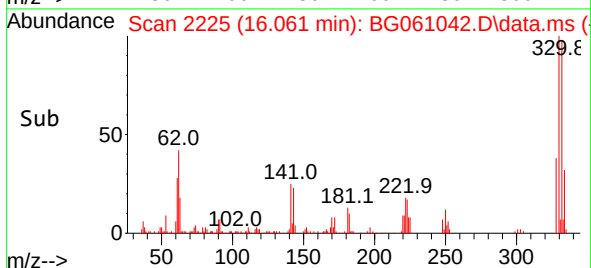
Reviewed By :Yogesh Patel 04/26/2024
Supervised By :mohammad ahmed 04/27/2024

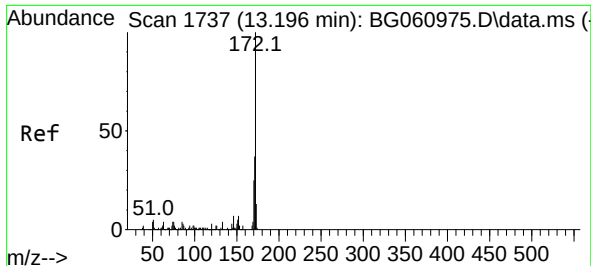


#42
2,4,6-Tribromophenol
Concen: 38.163 ng
RT: 16.061 min Scan# 2225
Delta R.T. -0.002 min
Lab File: BG061042.D
Acq: 25 Apr 2024 18:03



Tgt Ion:330 Resp: 68574
Ion Ratio Lower Upper
330 100
332 96.1 77.1 115.7
141 26.6 20.6 31.0





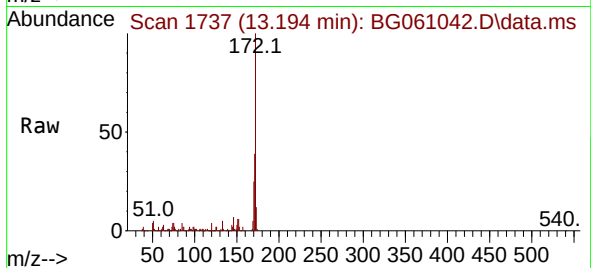
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2-Fluorobiphenyl
Concen: 29.988 ng
RT: 13.194 min Scan# 1737
Delta R.T. -0.002 min
Lab File: BG061042.D
Acq: 25 Apr 2024 18:03

Instrument :

BNA_G

ClientSampleId :

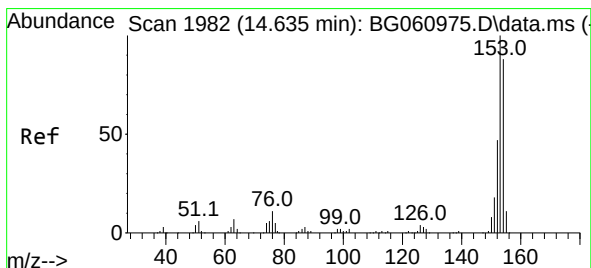
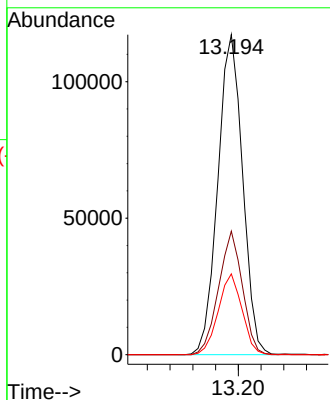
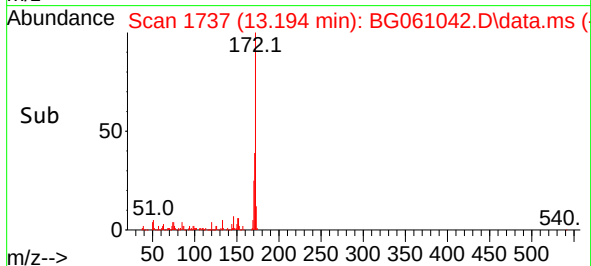
OR-03-042424



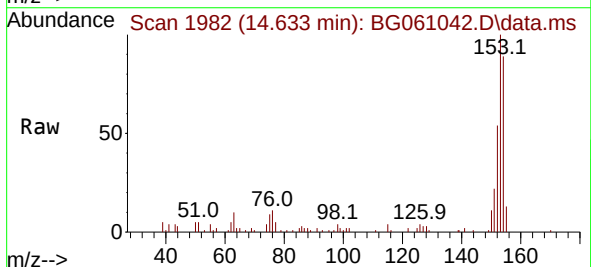
Tgt Ion:172 Resp: 177298
Ion Ratio Lower Upper
172 100
171 38.6 29.3 43.9
170 25.2 20.1 30.1

Manual Integrations
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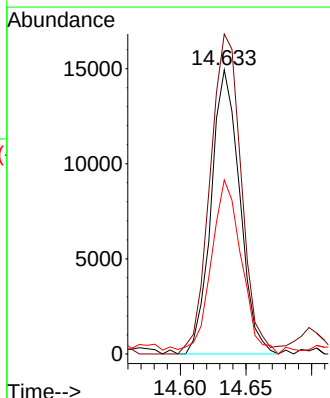
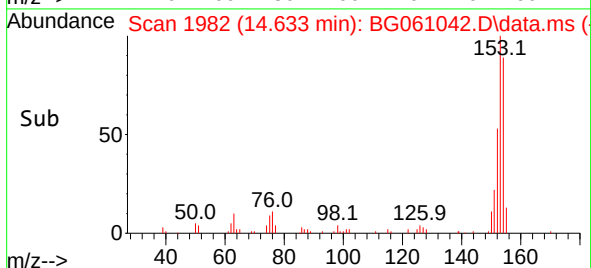
Reviewed By :Yogesh Patel 04/26/2024
Supervised By :mohammad ahmed 04/27/2024

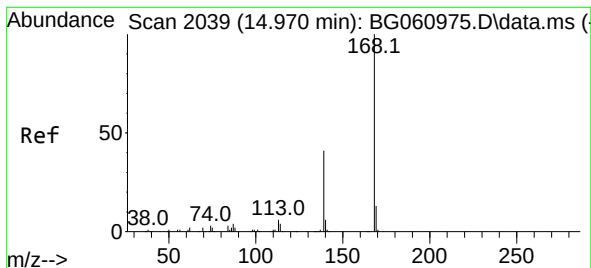


#52
Acenaphthene
Concen: 5.212 ng
RT: 14.633 min Scan# 1982
Delta R.T. -0.002 min
Lab File: BG061042.D
Acq: 25 Apr 2024 18:03



Tgt Ion:154 Resp: 22541
Ion Ratio Lower Upper
154 100
153 112.6 91.2 136.8
152 61.2 42.7 64.1





#55
Dibenzenofuran
Concen: 3.520 ng
RT: 14.968 min Scan# 2039
Delta R.T. -0.002 min
Lab File: BG061042.D
Acq: 25 Apr 2024 18:03

Instrument :

BNA_G

ClientSampleId :

OR-03-042424

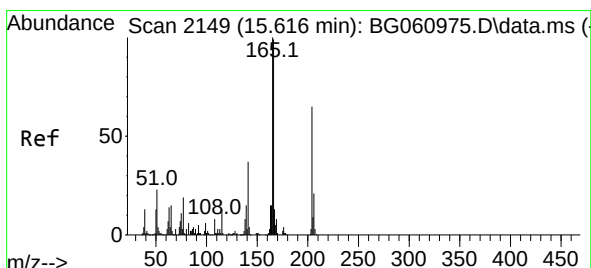
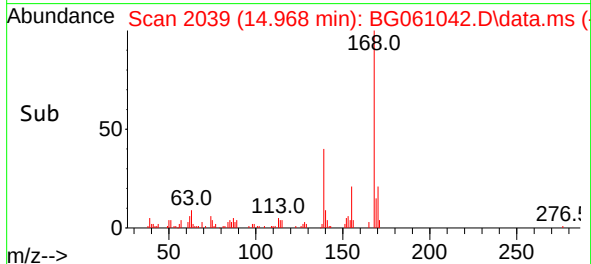
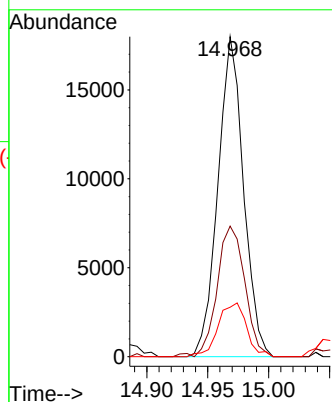
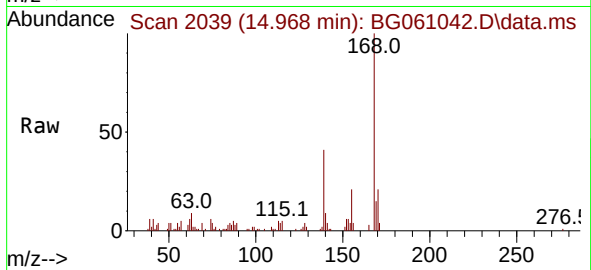
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Ion Ratio Lower Upper
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139 40.8 32.4 48.6
169 15.5 10.6 15.8

Manual Integrations

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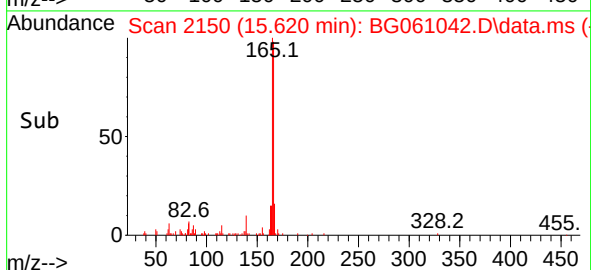
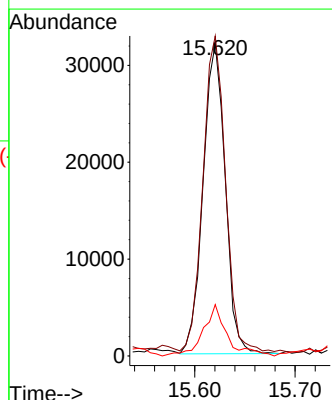
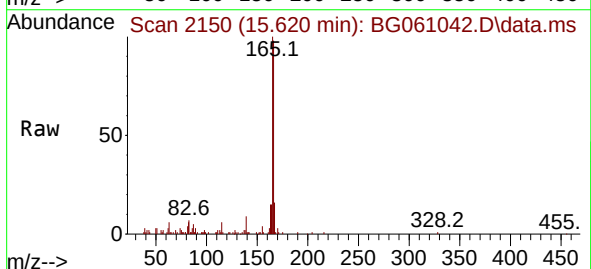
Reviewed By :Yogesh Patel 04/26/2024

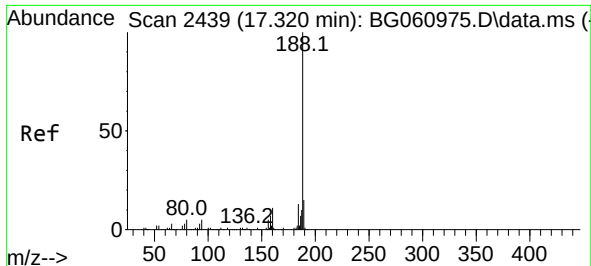
Supervised By :mohammad ahmed 04/27/2024



#58
Fluorene
Concen: 7.795 ng
RT: 15.620 min Scan# 2150
Delta R.T. 0.004 min
Lab File: BG061042.D
Acq: 25 Apr 2024 18:03

Tgt Ion:166 Resp: 49137
Ion Ratio Lower Upper
166 100
165 102.4 80.9 121.3
167 16.5 10.5 15.7#





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.318 min Scan# 2439
Delta R.T. -0.002 min
Lab File: BG061042.D
Acq: 25 Apr 2024 18:03

Instrument :

BNA_G

ClientSampleId :

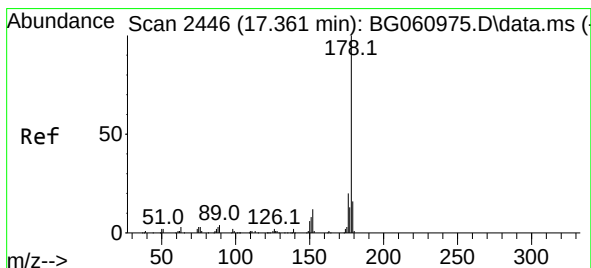
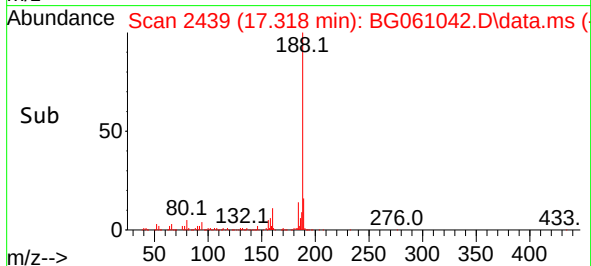
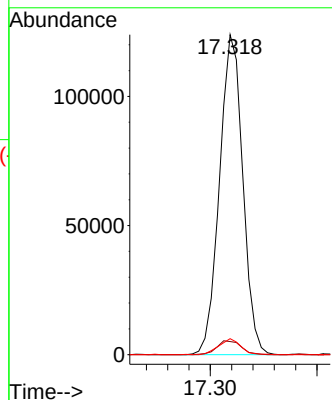
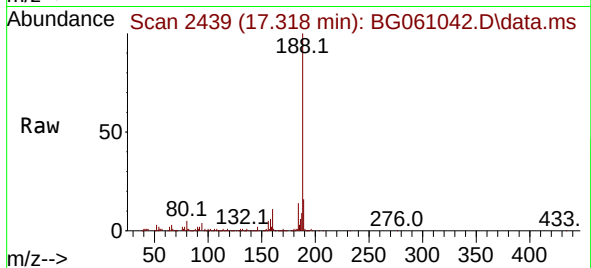
OR-03-042424

Tgt Ion:188 Resp: 18755
Ion Ratio Lower Upper
188 100
94 4.1 4.1 6.1
80 5.0 4.0 6.0

Manual Integrations

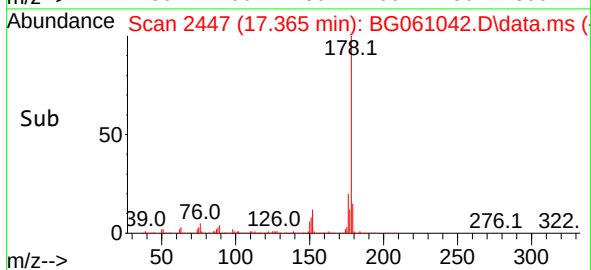
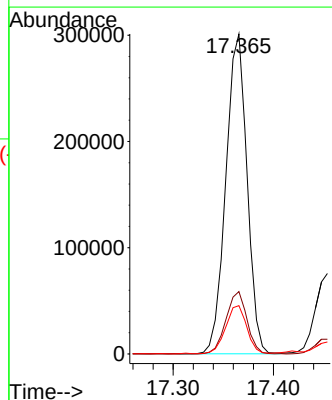
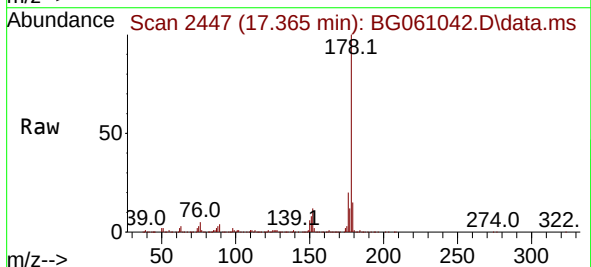
APPROVED

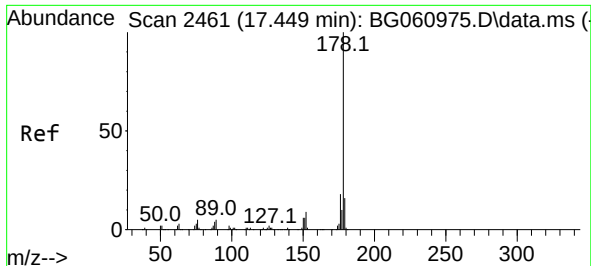
Reviewed By :Yogesh Patel 04/26/2024
Supervised By :mohammad ahmed 04/27/2024



#71
Phenanthrene
Concen: 46.074 ng
RT: 17.365 min Scan# 2447
Delta R.T. 0.004 min
Lab File: BG061042.D
Acq: 25 Apr 2024 18:03

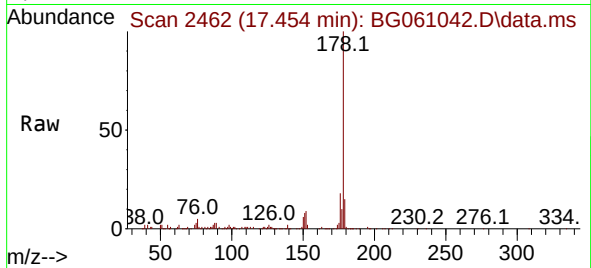
Tgt Ion:178 Resp: 441086
Ion Ratio Lower Upper
178 100
176 19.5 16.0 24.0
179 15.1 12.5 18.7





#72
 Anthracene
 Concen: 10.906 ng
 RT: 17.454 min Scan# 2461
 Delta R.T. 0.004 min
 Lab File: BG061042.D
 Acq: 25 Apr 2024 18:03

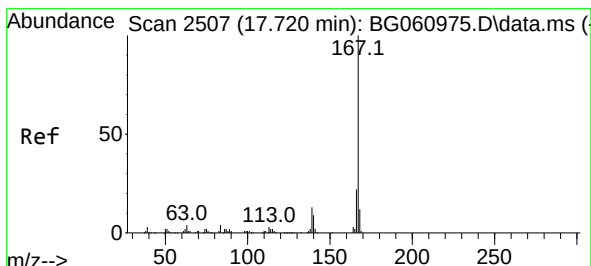
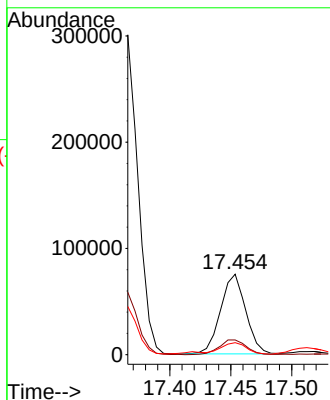
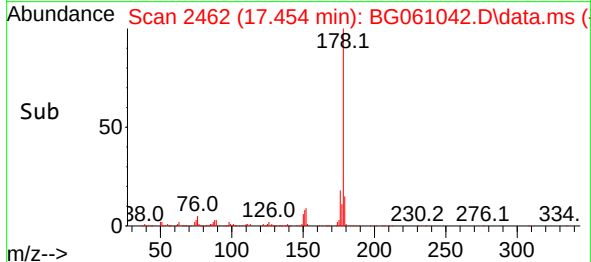
Instrument :
 BNA_G
 ClientSampleId :
 OR-03-042424



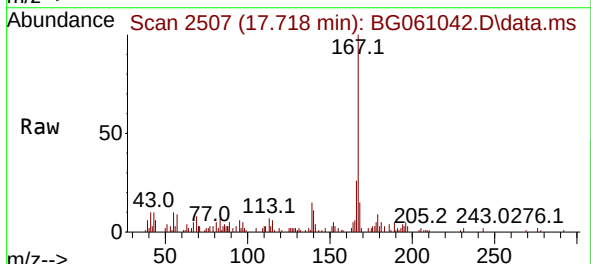
Tgt Ion:178 Resp: 10752
 Ion Ratio Lower Upper
 178 100
 176 18.3 14.7 22.1
 179 14.9 12.4 18.6

Manual Integrations
 APPROVED

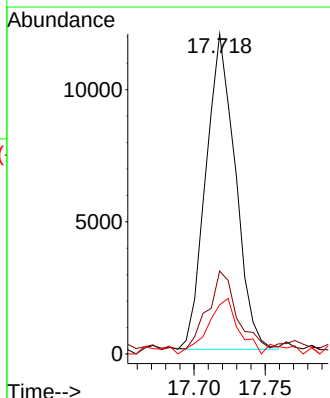
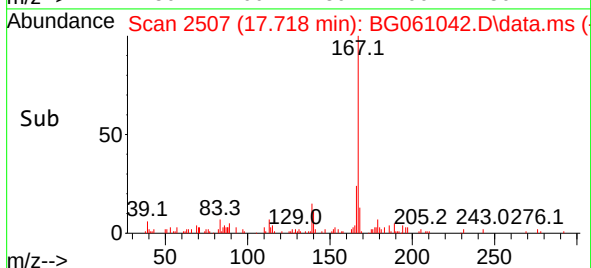
Reviewed By :Yogesh Patel 04/26/2024
 Supervised By :mohammad ahmed 04/27/2024

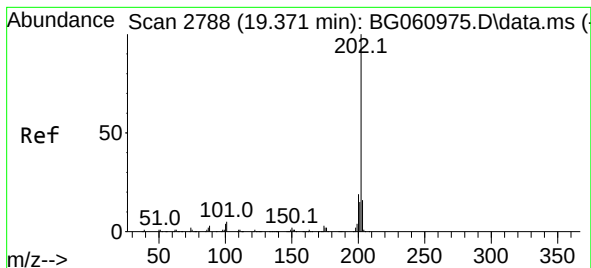


#73
 Carbazole
 Concen: 2.102 ng
 RT: 17.718 min Scan# 2507
 Delta R.T. -0.002 min
 Lab File: BG061042.D
 Acq: 25 Apr 2024 18:03



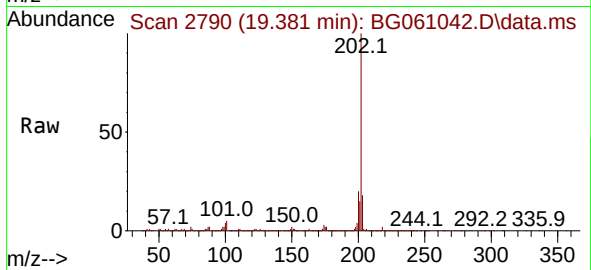
Tgt Ion:167 Resp: 17212
 Ion Ratio Lower Upper
 167 100
 166 25.9 17.8 26.8
 139 15.4 10.2 15.2#





#75
Fluoranthene
Concen: 55.026 ng
RT: 19.381 min Scan# 21
Delta R.T. 0.010 min
Lab File: BG061042.D
Acq: 25 Apr 2024 18:03

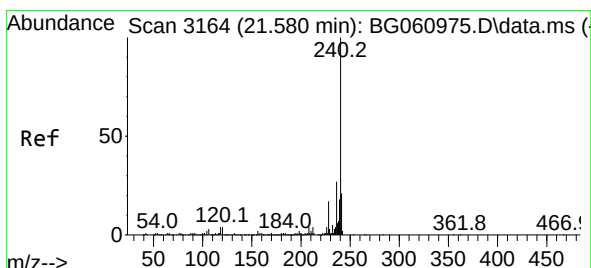
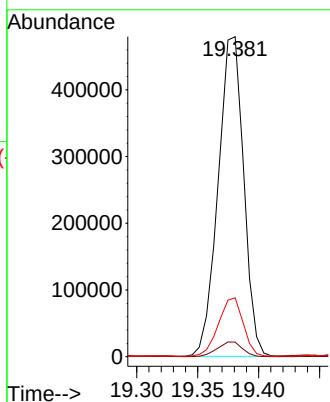
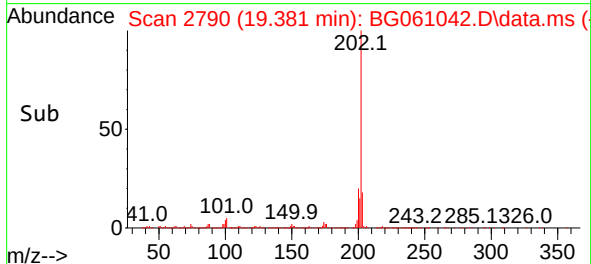
Instrument :
BNA_G
ClientSampleId :
OR-03-042424



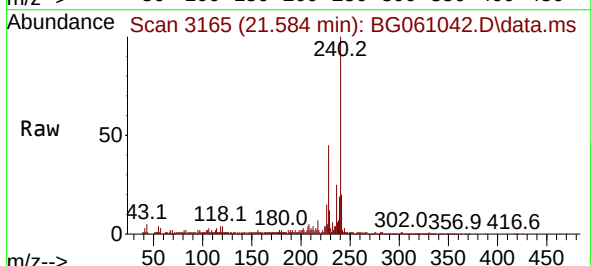
Tgt Ion:202 Resp: 699120
Ion Ratio Lower Upper
202 100
101 4.6 0.0 24.9
203 18.4 0.0 36.2

Manual Integrations
APPROVED

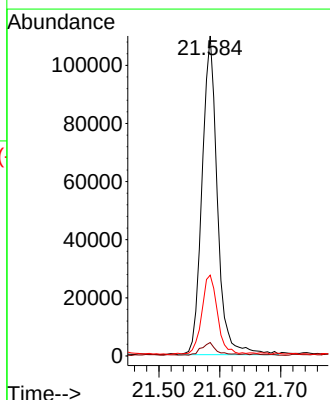
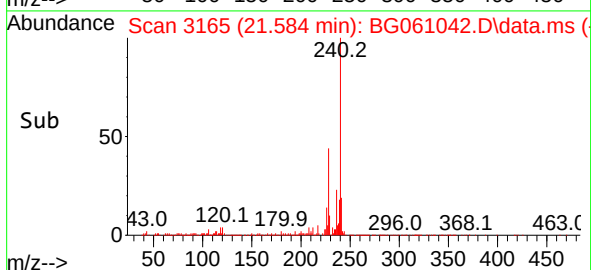
Reviewed By :Yogesh Patel 04/26/2024
Supervised By :mohammad ahmed 04/27/2024

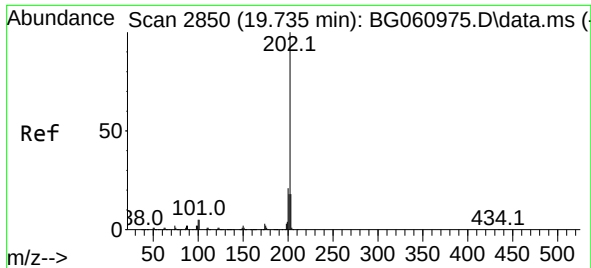


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.584 min Scan# 3165
Delta R.T. 0.004 min
Lab File: BG061042.D
Acq: 25 Apr 2024 18:03



Tgt Ion:240 Resp: 191390
Ion Ratio Lower Upper
240 100
120 4.2 3.0 4.6
236 25.3 21.8 32.6





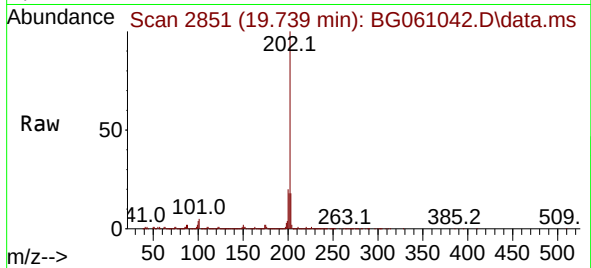
#78
 Pyrene
 Concen: 48.654 ng
 RT: 19.739 min Scan# 2850
 Delta R.T. 0.004 min
 Lab File: BG061042.D
 Acq: 25 Apr 2024 18:03

Instrument :

BNA_G

ClientSampleId :

OR-03-042424



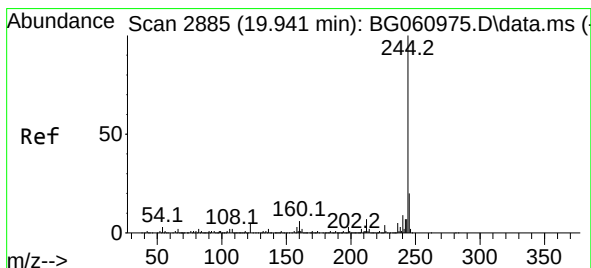
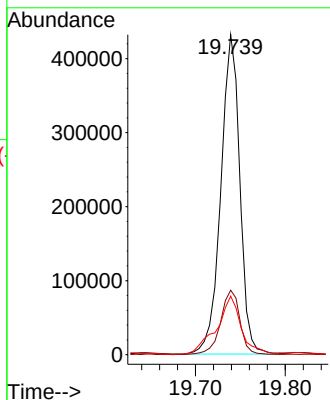
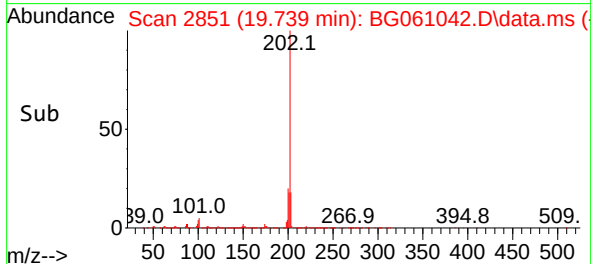
Tgt Ion:202 Resp: 634039
 Ion Ratio Lower Upper
 202 100
 200 20.1 16.8 25.2
 203 18.3 14.2 21.2

Manual Integrations

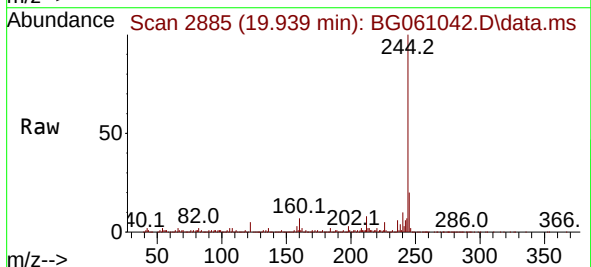
APPROVED

Reviewed By :Yogesh Patel 04/26/2024

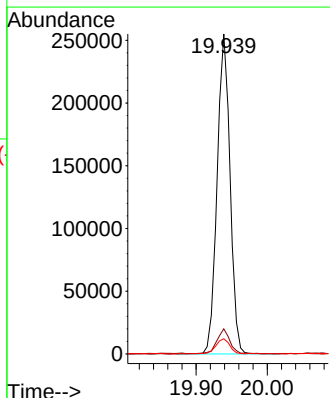
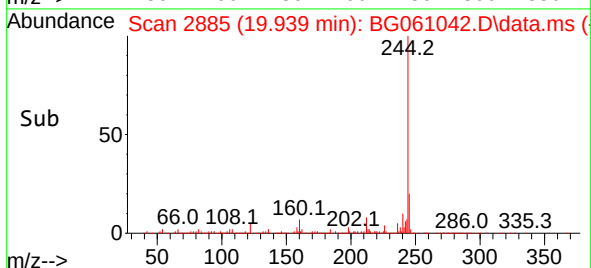
Supervised By :mohammad ahmed 04/27/2024

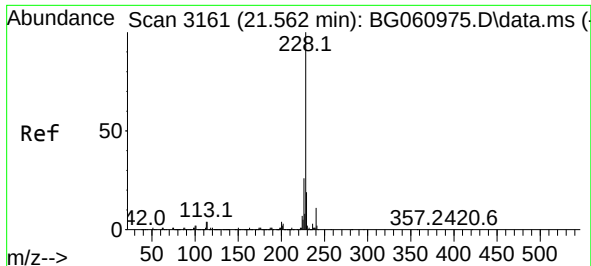


#79
 Terphenyl-d14
 Concen: 25.984 ng
 RT: 19.939 min Scan# 2885
 Delta R.T. -0.002 min
 Lab File: BG061042.D
 Acq: 25 Apr 2024 18:03



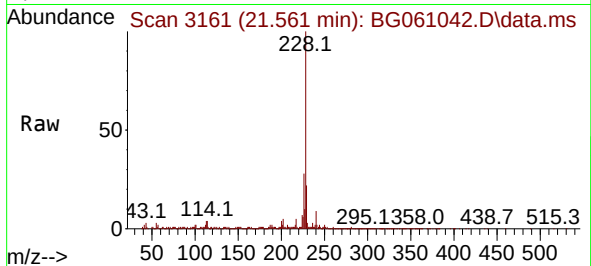
Tgt Ion:244 Resp: 320380
 Ion Ratio Lower Upper
 244 100
 212 7.9 5.9 8.9
 122 4.7 4.2 6.2





#81
Benzo(a)anthracene
Concen: 23.110 ng
RT: 21.561 min Scan# 3161
Delta R.T. -0.002 min
Lab File: BG061042.D
Acq: 25 Apr 2024 18:03

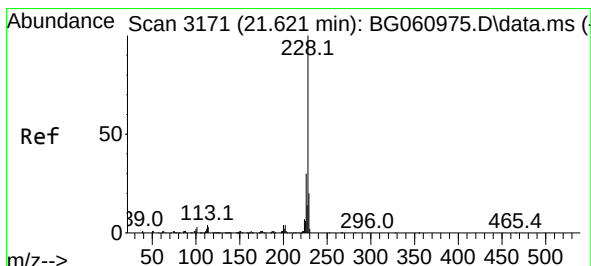
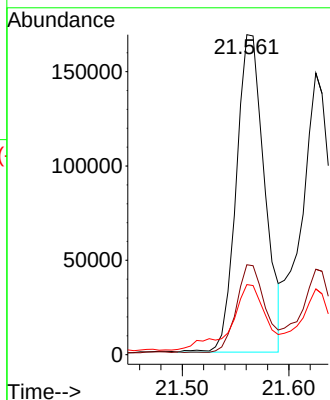
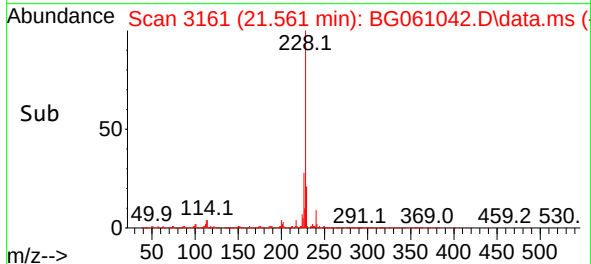
Instrument :
BNA_G
ClientSampleId :
OR-03-042424



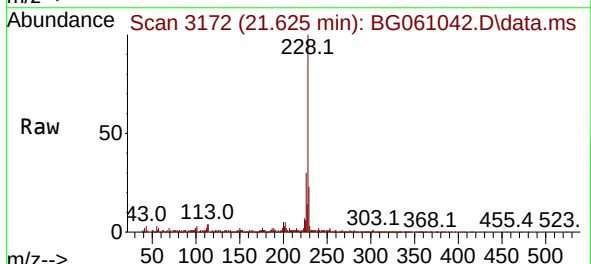
Tgt Ion:228 Resp: 31097
Ion Ratio Lower Upper
228 100
226 28.1 21.0 31.4
229 21.9 15.0 22.4

Manual Integrations
APPROVED

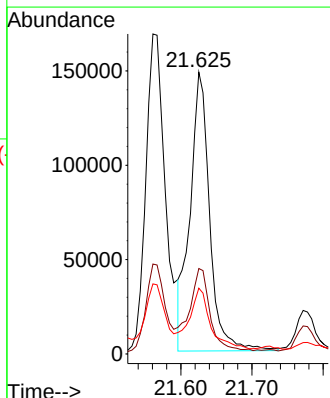
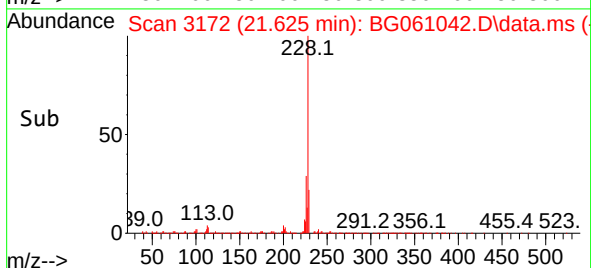
Reviewed By :Yogesh Patel 04/26/2024
Supervised By :mohammad ahmed 04/27/2024

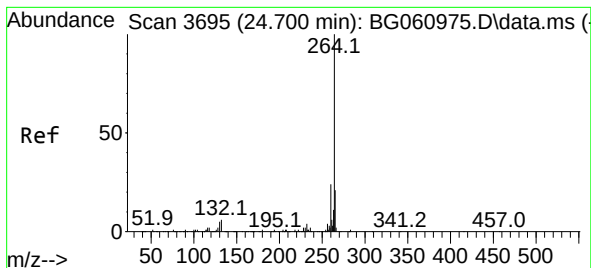


#83
Chrysene
Concen: 22.245 ng
RT: 21.625 min Scan# 3172
Delta R.T. 0.004 min
Lab File: BG061042.D
Acq: 25 Apr 2024 18:03



Tgt Ion:228 Resp: 284985
Ion Ratio Lower Upper
228 100
226 30.3 24.2 36.2
229 23.3 15.7 23.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.716 min Scan# 30

Delta R.T. 0.016 min

Lab File: BG061042.D

Acq: 25 Apr 2024 18:03

Instrument :

BNA_G

ClientSampleId :

OR-03-042424

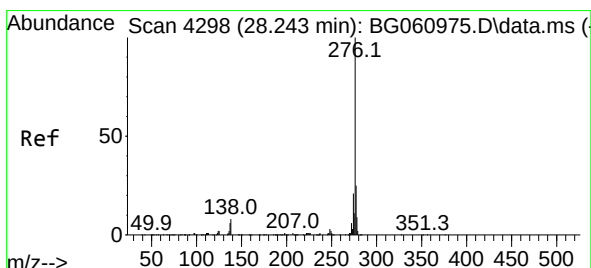
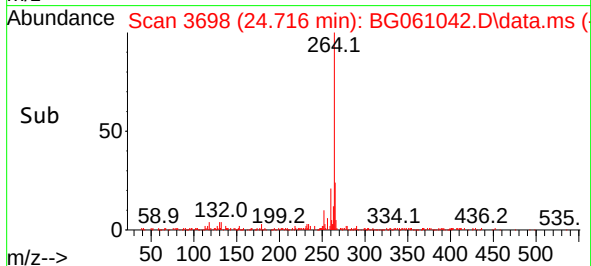
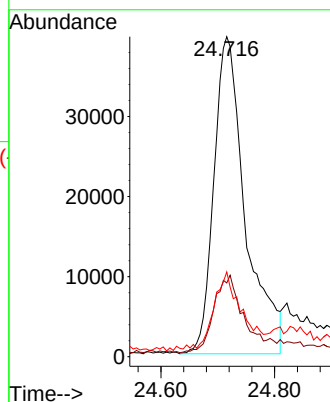
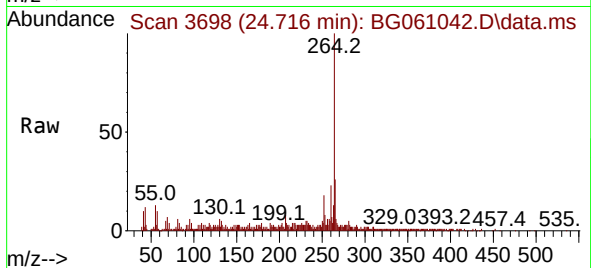
Tgt Ion:264 Resp: 15198
 Ion Ratio Lower Upper
 264 100
 260 23.0 19.4 29.2
 265 26.5 17.0 25.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 04/26/2024

Supervised By :mohammad ahmed 04/27/2024



#87

Indeno(1,2,3-cd)pyrene

Concen: 6.399 ng m

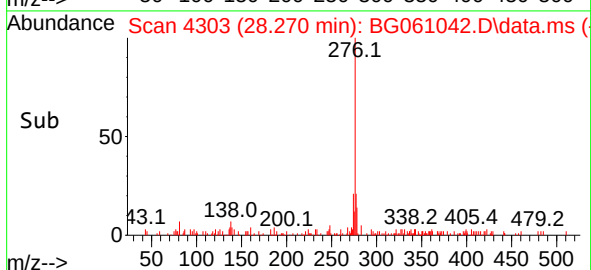
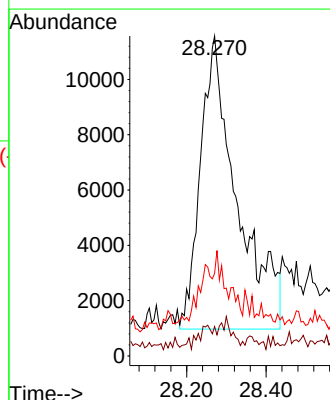
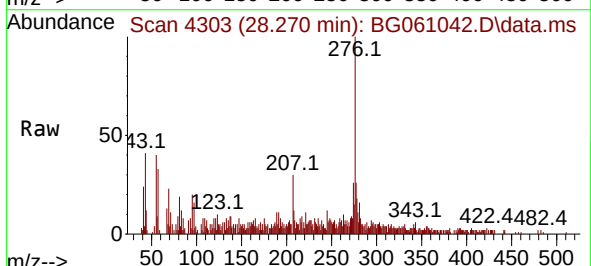
RT: 28.270 min Scan# 4303

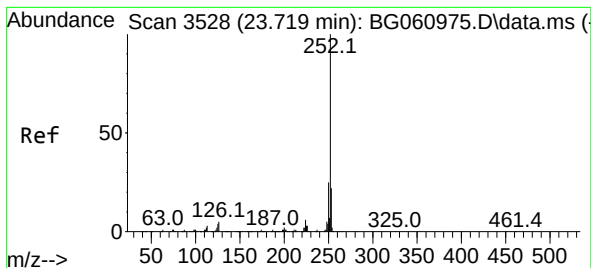
Delta R.T. 0.028 min

Lab File: BG061042.D

Acq: 25 Apr 2024 18:03

Tgt Ion:276 Resp: 67461
 Ion Ratio Lower Upper
 276 100
 138 0.5 5.3 7.9#
 277 3.1 20.6 30.8#





#88

Benzo(b)fluoranthene

Concen: 26.712 ng

RT: 23.729 min Scan# 3530

Delta R.T. 0.010 min

Lab File: BG061042.D

Acq: 25 Apr 2024 18:03

Instrument :

BNA_G

ClientSampleId :

OR-03-042424

Tgt Ion:252 Resp: 230062

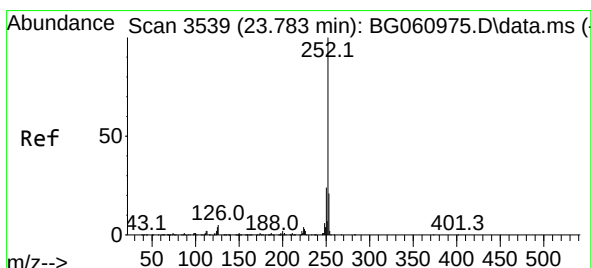
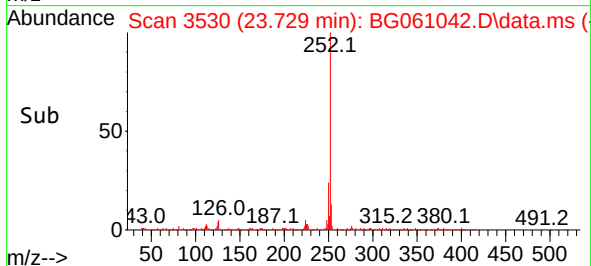
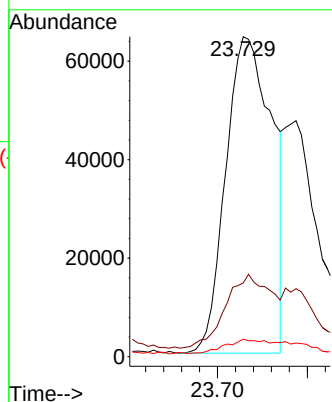
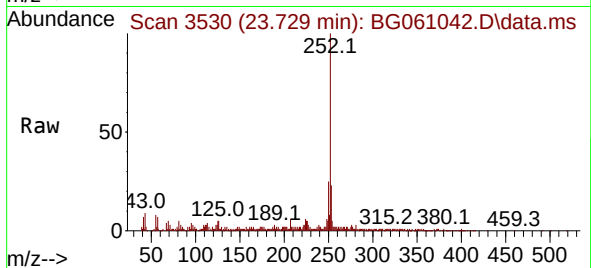
Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.5	26.3
125	5.5	3.3	4.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 04/26/2024

Supervised By :mohammad ahmed 04/27/2024



#89

Benzo(k)fluoranthene

Concen: 13.812 ng m

RT: 23.787 min Scan# 3540

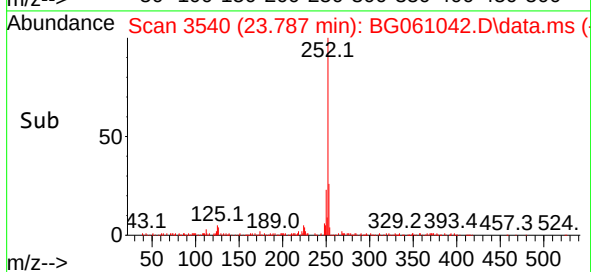
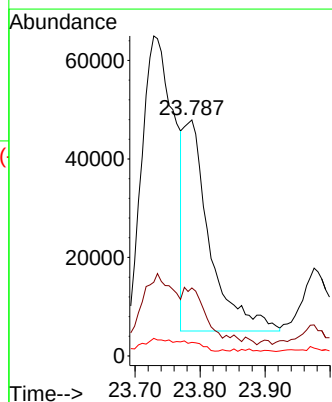
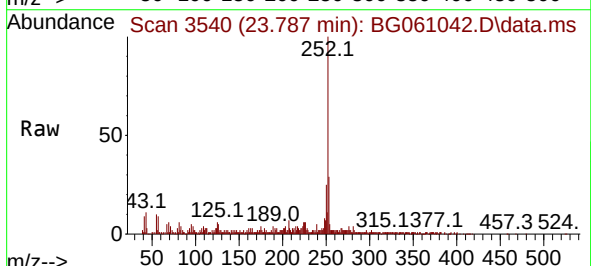
Delta R.T. 0.004 min

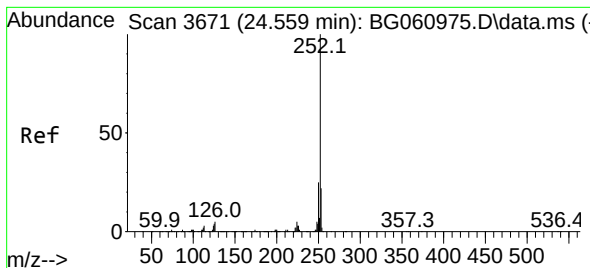
Lab File: BG061042.D

Acq: 25 Apr 2024 18:03

Tgt Ion:252 Resp: 120086

Ion	Ratio	Lower	Upper
252	100		
253	28.8	16.6	25.0#
125	5.8	3.3	4.9#





#90

Benzo(a)pyrene

Concen: 20.166 ng

RT: 24.563 min Scan# 30

Delta R.T. 0.004 min

Lab File: BG061042.D

Acq: 25 Apr 2024 18:03

Instrument :

BNA_G

ClientSampleId :

OR-03-042424

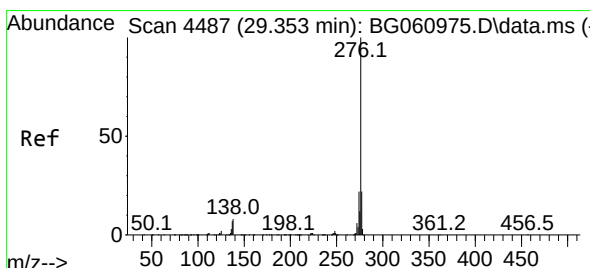
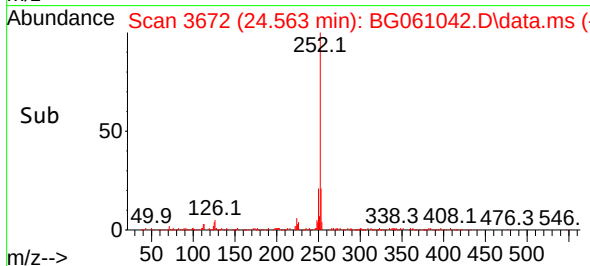
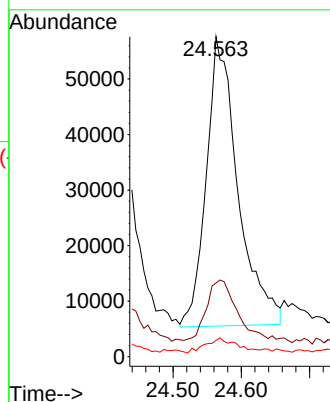
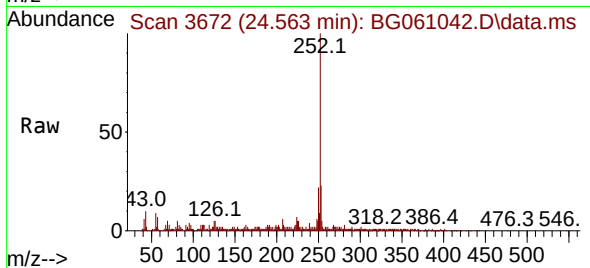
Tgt Ion:	252	Resp:	16811
Ion Ratio	Lower	Upper	
252	100		
253	23.1	17.7	26.5
125	5.1	3.6	5.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 04/26/2024

Supervised By :mohammad ahmed 04/27/2024



#92

Benzo(g,h,i)perylene

Concen: 6.955 ng m

RT: 29.363 min Scan# 4489

Delta R.T. 0.010 min

Lab File: BG061042.D

Acq: 25 Apr 2024 18:03

Tgt Ion:	276	Resp:	59405
Ion Ratio	Lower	Upper	
276	100		
277	29.9	18.0	27.0#
138	11.6	6.5	9.7#

