

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG041524\
 Data File : BG060906.D
 Acq On : 15 Apr 2024 18:31
 Operator : MA/JU
 Sample : P2091-01DL 10X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 OR-02-041124DL

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 04/17/2024
 Supervised By :mohammad ahmed 04/18/2024

Quant Time: Apr 16 01:03:27 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG032924.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Mar 30 03:12:26 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.950	152	67901	20.000	ng	-0.01
21) Naphthalene-d8	10.746	136	258549	20.000	ng	-0.01
39) Acenaphthene-d10	14.577	164	187138	20.000	ng	-0.01
64) Phenanthrene-d10	17.327	188	416279	20.000	ng	#-0.01
76) Chrysene-d12	21.587	240	387191	20.000	ng	-0.02
86) Perylene-d12	24.724	264	458777	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.541	112	33792	8.291	ng	0.00
7) Phenol-d6	7.109	99	41829	6.914	ng	0.00
23) Nitrobenzene-d5	9.095	82	30989	6.839	ng	-0.02
42) 2,4,6-Tribromophenol	16.064	330	21171	9.966	ng	-0.01
45) 2-Fluorobiphenyl	13.202	172	66474	5.213	ng	-0.02
79) Terphenyl-d14	19.947	244	124747	5.673	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	10.793	128	59771	4.274	ng	98
37) 2-Methylnaphthalene	12.403	142	34151	3.321	ng	97
38) 1-Methylnaphthalene	12.621	142	22147	2.280	ng	98
52) Acenaphthene	14.642	154	64765	6.113	ng	98
55) Dibenzofuran	14.977	168	83317	4.986	ng	99
58) Fluorene	15.623	166	123532	9.210	ng	99
71) Phenanthrene	17.368	178	944556	43.629	ng	99
72) Anthracene	17.456	178	362237	16.475	ng	99
73) Carbazole	17.721	167	58815	3.034	ng	99
75) Fluoranthene	19.383	202	1165235	44.355	ng	97
78) Pyrene	19.742	202	968492	35.765	ng	99
81) Benzo(a)anthracene	21.569	228	542239	19.867	ng	99
83) Chrysene	21.634	228	450752	17.135	ng	99
87) Indeno(1,2,3-cd)pyrene	28.273	276	242119	7.494	ng	97
88) Benzo(b)fluoranthene	23.737	252	543382	20.617	ng	99
89) Benzo(k)fluoranthene	23.796	252	212243m	7.868	ng	
90) Benzo(a)pyrene	24.577	252	432443	16.883	ng	97
92) Benzo(g,h,i)perylene	29.383	276	228544	8.627	ng	97

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

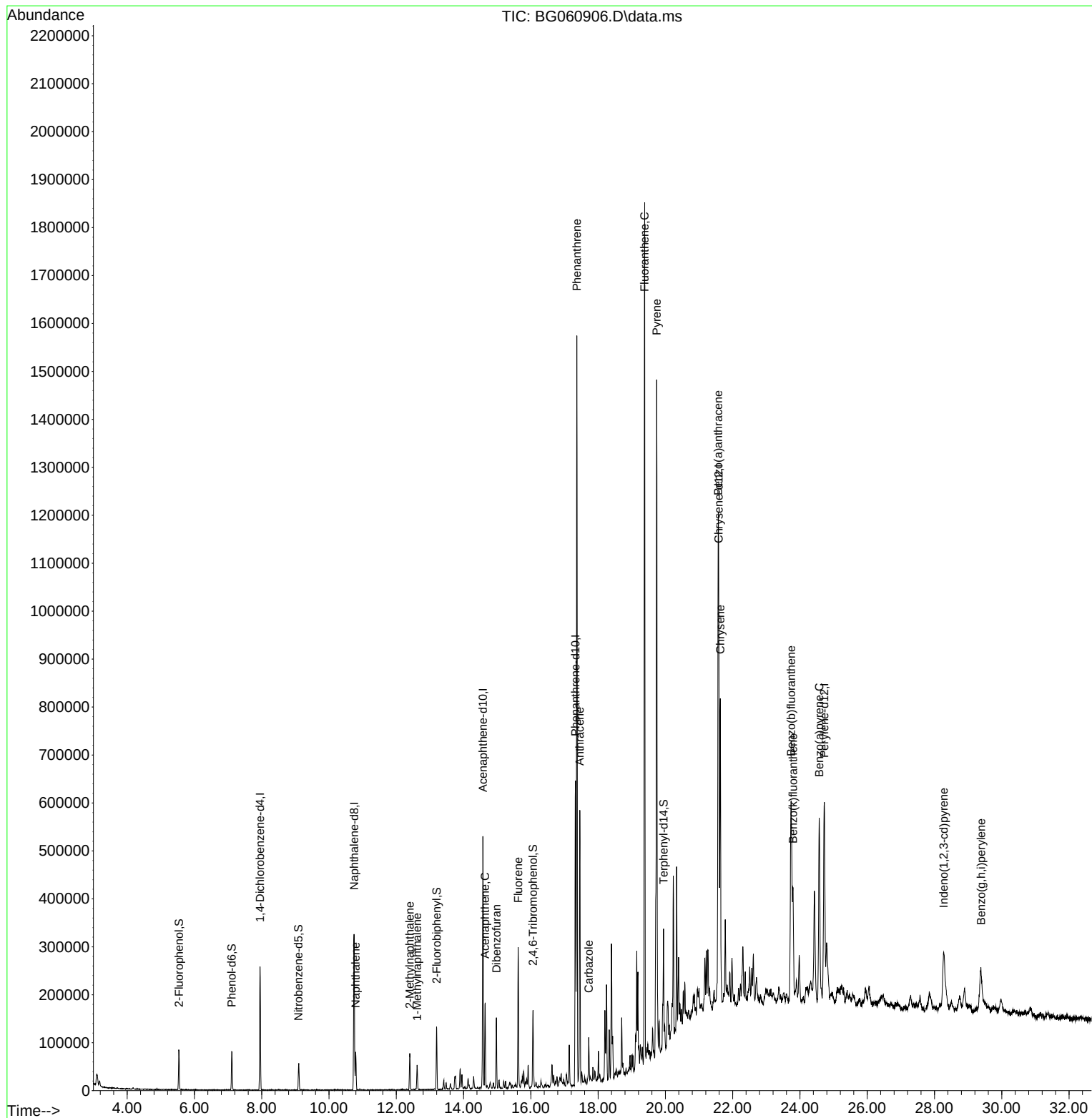
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG041524\
Data File : BG060906.D
Acq On : 15 Apr 2024 18:31
Operator : MA/JU
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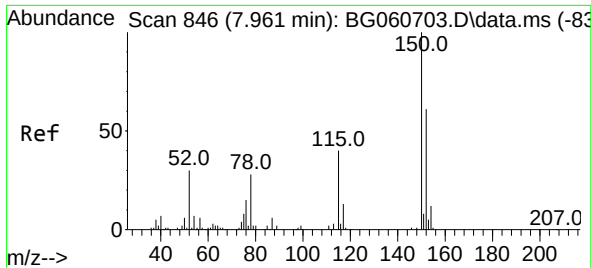
Instrument :
BNA_G
ClientSampleId :
OR-02-041124DL

Quant Time: Apr 16 01:03:27 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG032924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Mar 30 03:12:26 2024
Response via : Initial Calibration

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Reviewed By :Yogesh Patel 04/17/2024
Supervised By :mohammad ahmed 04/18/2024





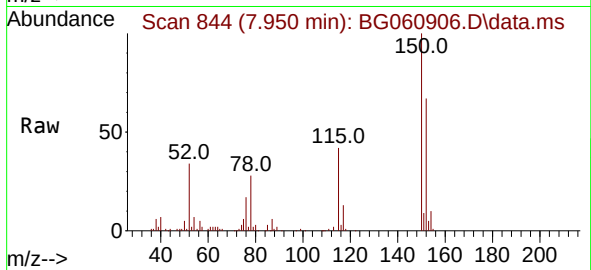
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.950 min Scan# 846
Delta R.T. -0.011 min
Lab File: BG060906.D
Acq: 15 Apr 2024 18:31

Instrument :

BNA_G

ClientSampleId :

OR-02-041124DL



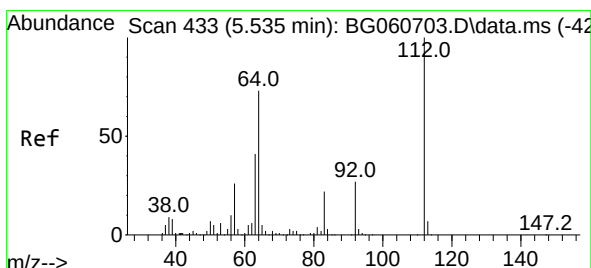
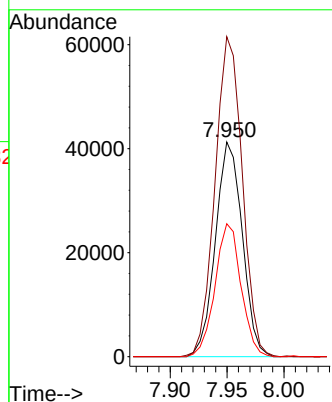
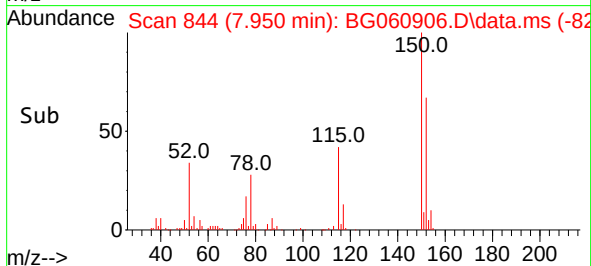
Tgt Ion:152 Resp: 6790
Ion Ratio Lower Upper
152 100
150 149.1 130.2 195.4
115 62.0 51.6 77.4

Manual Integrations

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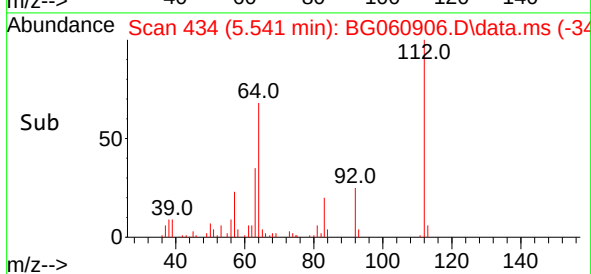
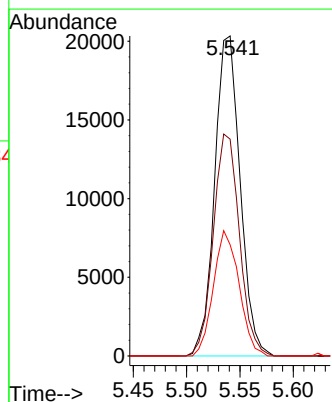
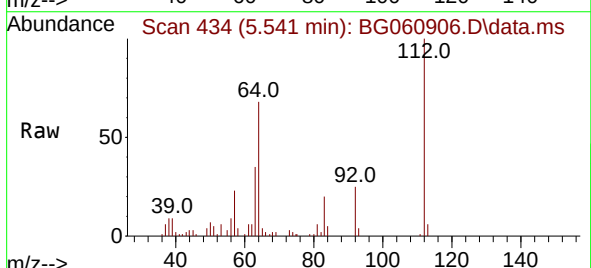
Reviewed By :Yogesh Patel 04/17/2024

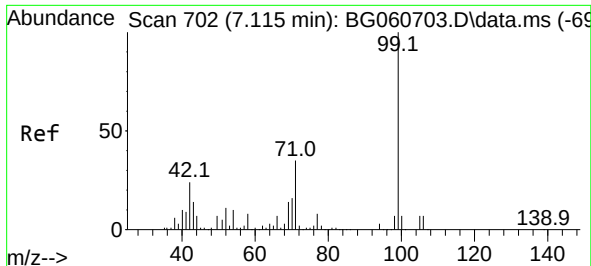
Supervised By :mohammad ahmed 04/18/2024



#5
2-Fluorophenol
Concen: 8.291 ng
RT: 5.541 min Scan# 434
Delta R.T. 0.006 min
Lab File: BG060906.D
Acq: 15 Apr 2024 18:31

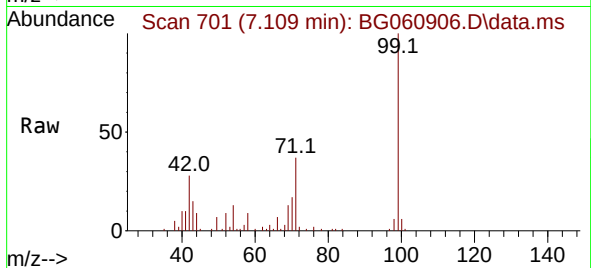
Tgt Ion:112 Resp: 33792
Ion Ratio Lower Upper
112 100
64 67.7 58.4 87.6
63 34.8 32.7 49.1





#7
Phenol-d6
Concen: 6.914 ng
RT: 7.109 min Scan# 702
Delta R.T. -0.006 min
Lab File: BG060906.D
Acq: 15 Apr 2024 18:31

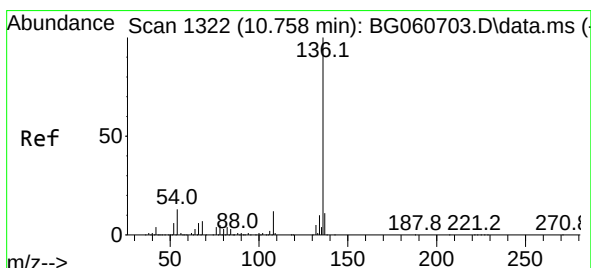
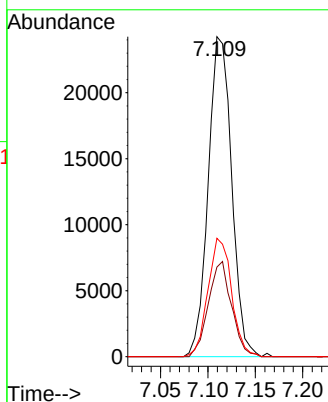
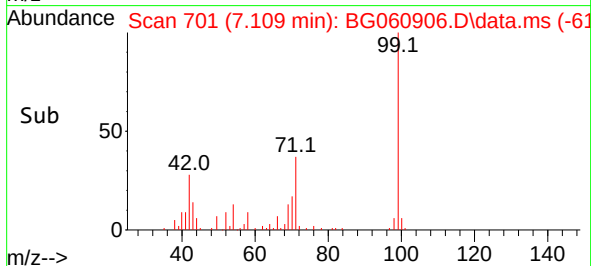
Instrument :
BNA_G
ClientSampleId :
OR-02-041124DL



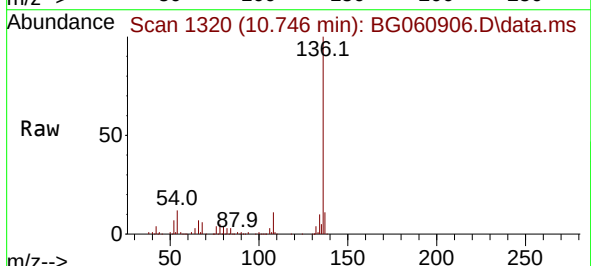
Tgt Ion: 99 Resp: 41829
Ion Ratio Lower Upper
99 100
42 28.0 19.4 29.2
71 37.0 28.2 42.2

Manual Integrations
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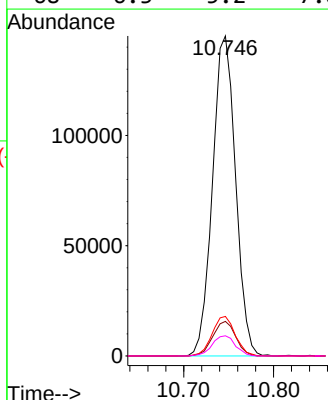
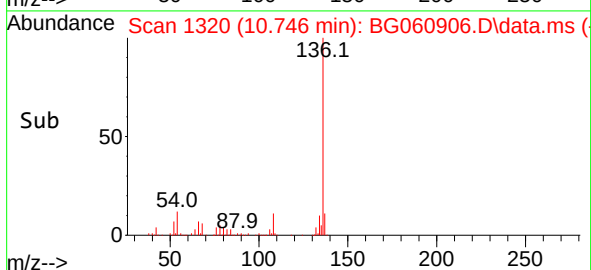
Reviewed By :Yogesh Patel 04/17/2024
Supervised By :mohammad ahmed 04/18/2024

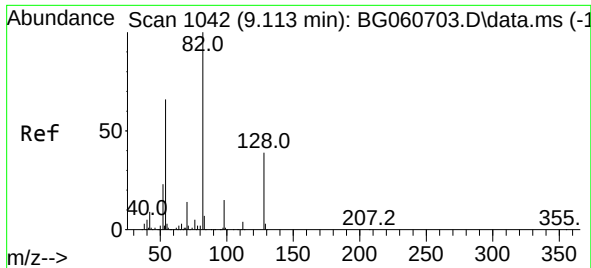


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.746 min Scan# 1320
Delta R.T. -0.012 min
Lab File: BG060906.D
Acq: 15 Apr 2024 18:31



Tgt Ion:136 Resp: 258549
Ion Ratio Lower Upper
136 100
137 10.8 8.8 13.2
54 12.3 10.2 15.2
68 6.3 5.2 7.8





#23
Nitrobenzene-d5
Concen: 6.839 ng
RT: 9.095 min Scan# 1039
Delta R.T. -0.018 min
Lab File: BG060906.D
Acq: 15 Apr 2024 18:31

Instrument :

BNA_G

ClientSampleId :

OR-02-041124DL

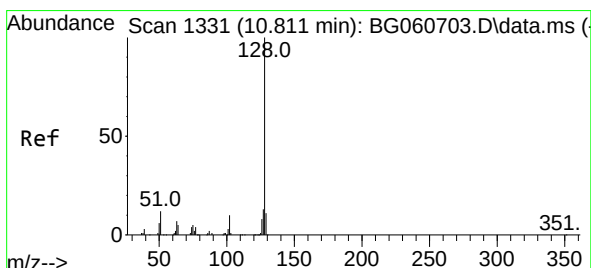
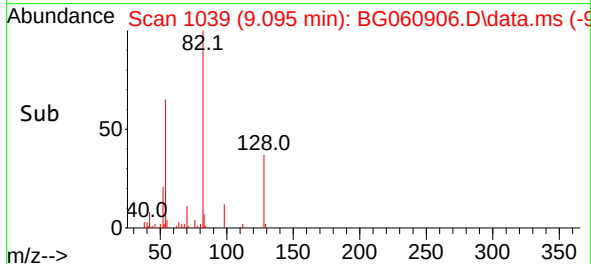
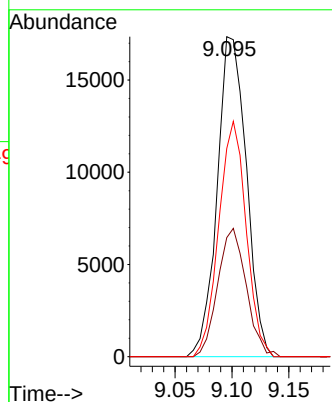
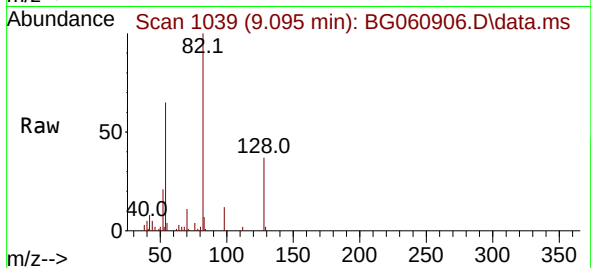
Tgt Ion: 82 Resp: 30989
Ion Ratio Lower Upper
82 100
128 37.2 31.2 46.8
54 65.1 53.2 79.8

Manual Integrations

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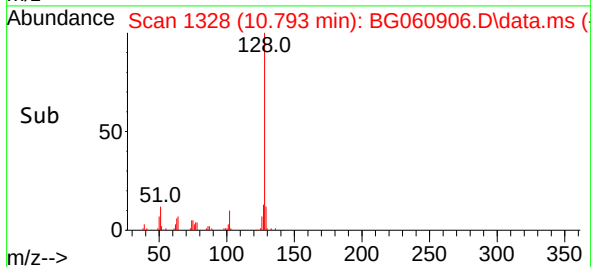
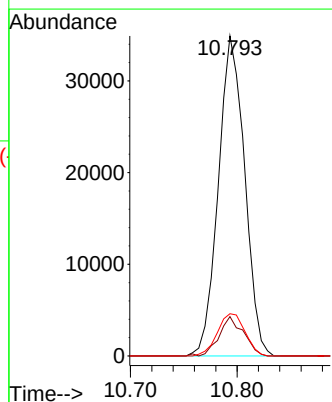
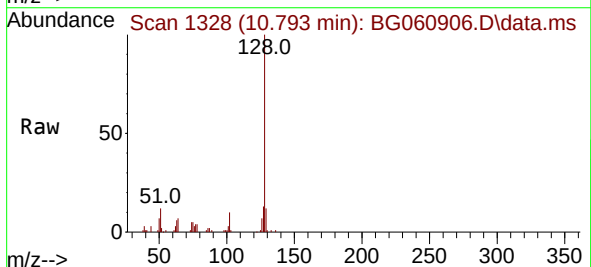
Reviewed By :Yogesh Patel 04/17/2024

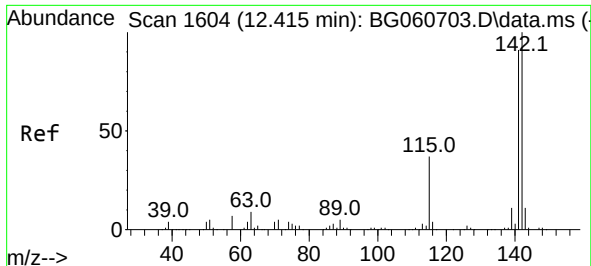
Supervised By :mohammad ahmed 04/18/2024



#31
Naphthalene
Concen: 4.274 ng
RT: 10.793 min Scan# 1328
Delta R.T. -0.018 min
Lab File: BG060906.D
Acq: 15 Apr 2024 18:31

Tgt Ion:128 Resp: 59771
Ion Ratio Lower Upper
128 100
129 12.3 8.5 12.7
127 13.2 10.5 15.7





#37

2-Methylnaphthalene

Concen: 3.321 ng

RT: 12.403 min Scan# 1

Delta R.T. -0.012 min

Lab File: BG060906.D

Acq: 15 Apr 2024 18:31

Instrument :

BNA_G

ClientSampleId :

OR-02-041124DL

Tgt Ion:142 Resp: 3415

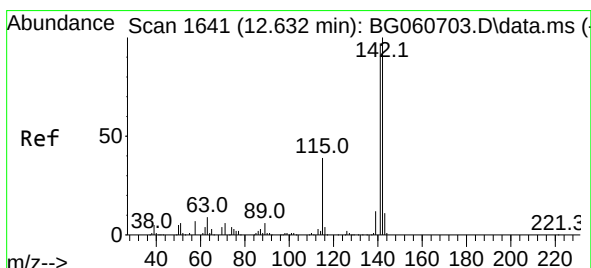
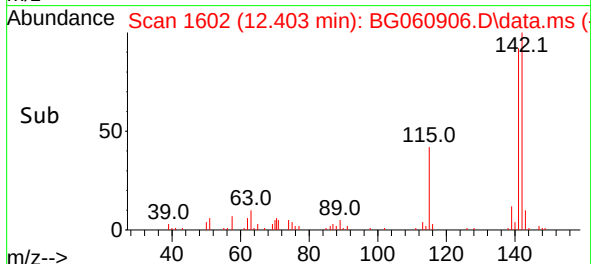
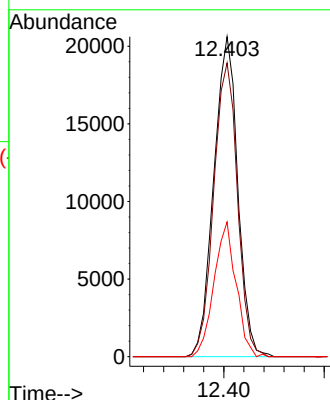
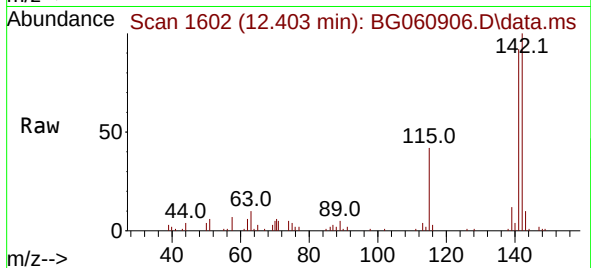
Ion	Ratio	Lower	Upper
142	100		
141	91.8	72.7	109.1
115	42.1	29.9	44.9

Manual Integrations

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Reviewed By :Yogesh Patel 04/17/2024

Supervised By :mohammad ahmed 04/18/2024



#38

1-Methylnaphthalene

Concen: 2.280 ng

RT: 12.621 min Scan# 1639

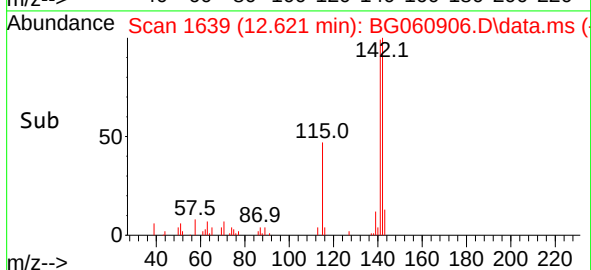
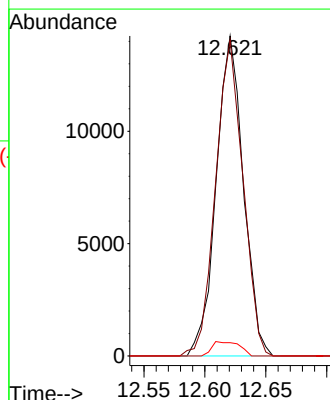
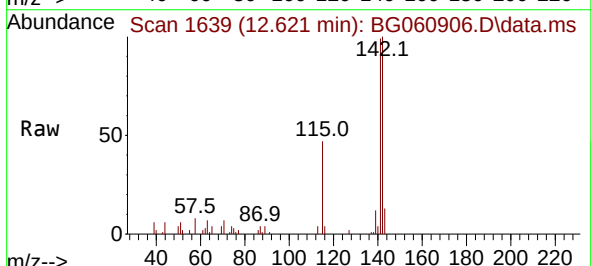
Delta R.T. -0.012 min

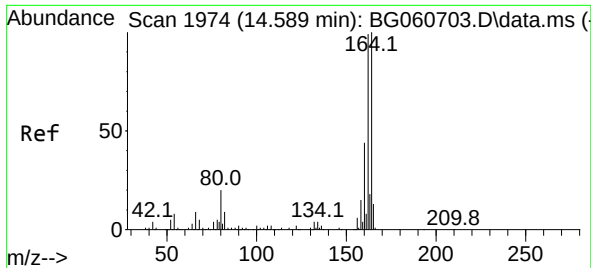
Lab File: BG060906.D

Acq: 15 Apr 2024 18:31

Tgt Ion:142 Resp: 22147

Ion	Ratio	Lower	Upper
142	100		
141	98.7	77.7	116.5
116	4.1	3.4	5.2





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.577 min Scan# 1974
Delta R.T. -0.012 min
Lab File: BG060906.D
Acq: 15 Apr 2024 18:31

Instrument :

BNA_G

ClientSampleId :

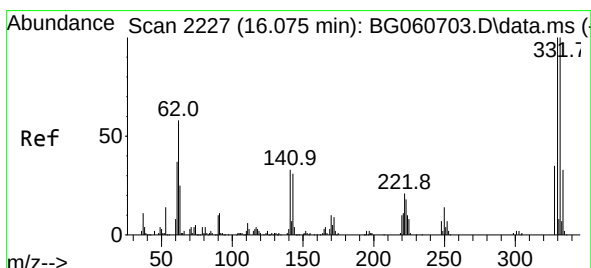
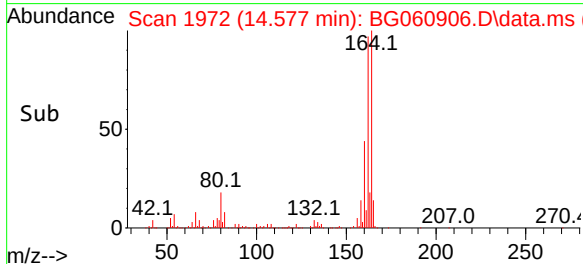
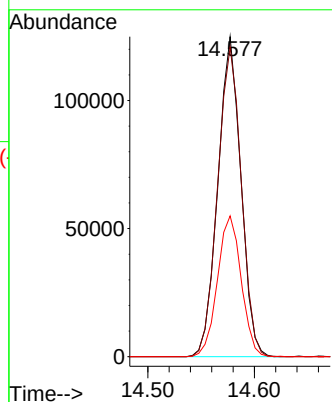
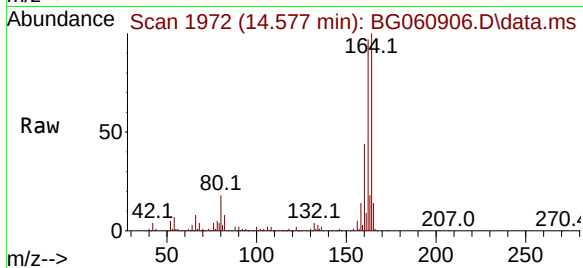
OR-02-041124DL

Tgt Ion:164 Resp: 187138
Ion Ratio Lower Upper
164 100
162 96.7 79.5 119.3
160 44.0 35.4 53.0

Manual Integrations

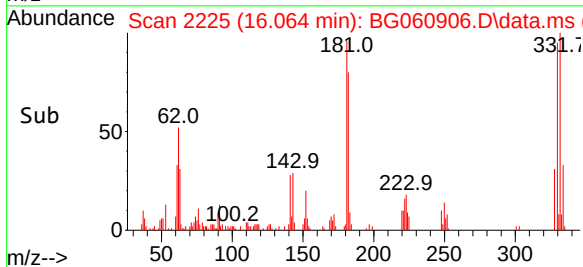
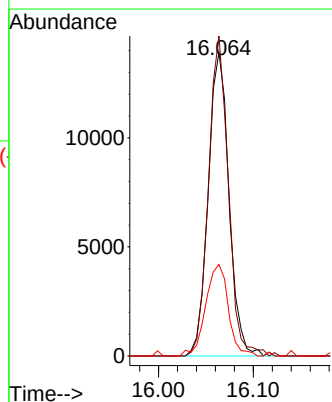
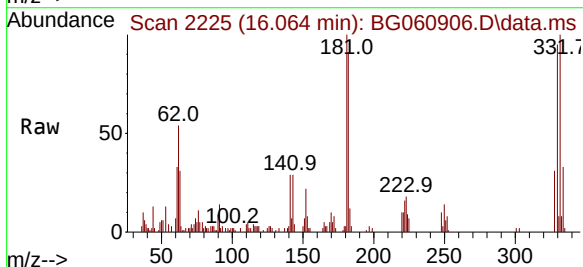
APPROVED

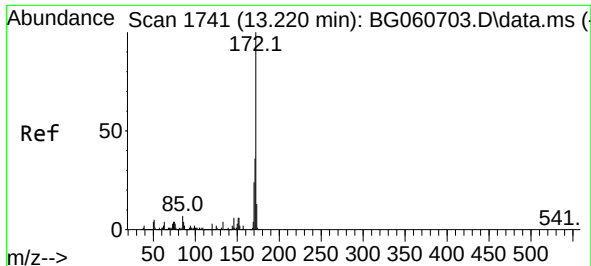
Reviewed By :Yogesh Patel 04/17/2024
Supervised By :mohammad ahmed 04/18/2024



#42
2,4,6-Tribromophenol
Concen: 9.966 ng
RT: 16.064 min Scan# 2225
Delta R.T. -0.012 min
Lab File: BG060906.D
Acq: 15 Apr 2024 18:31

Tgt Ion:330 Resp: 21171
Ion Ratio Lower Upper
330 100
332 100.6 78.2 117.4
141 32.8 27.0 40.6





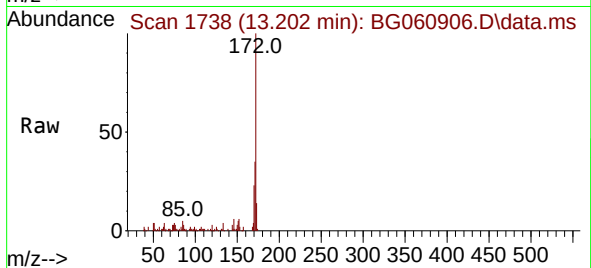
#45
2-Fluorobiphenyl
Concen: 5.213 ng
RT: 13.202 min Scan# 1741
Delta R.T. -0.018 min
Lab File: BG060906.D
Acq: 15 Apr 2024 18:31

Instrument :

BNA_G

ClientSampleId :

OR-02-041124DL



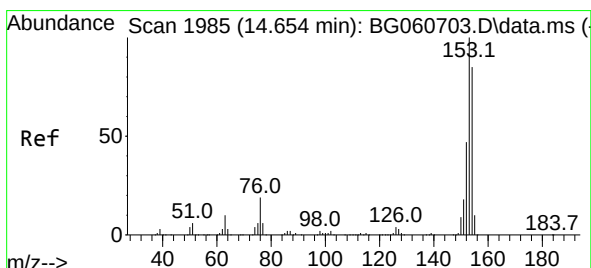
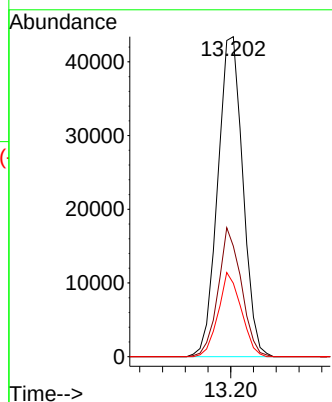
Tgt Ion:172 Resp: 66474
Ion Ratio Lower Upper
172 100
171 34.5 28.7 43.1
170 23.0 19.4 29.0

Manual Integrations

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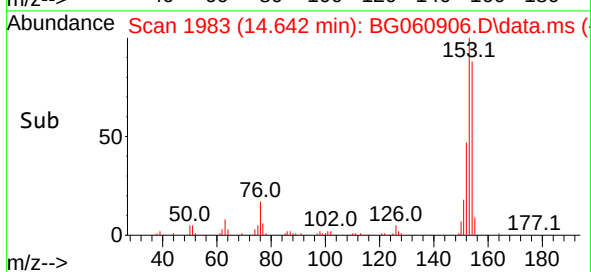
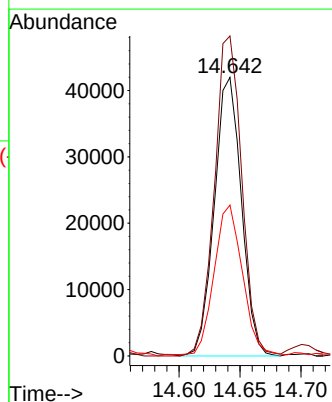
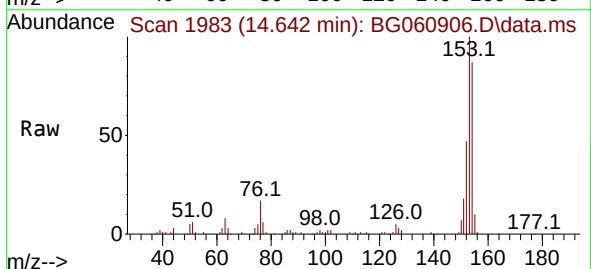
Reviewed By :Yogesh Patel 04/17/2024

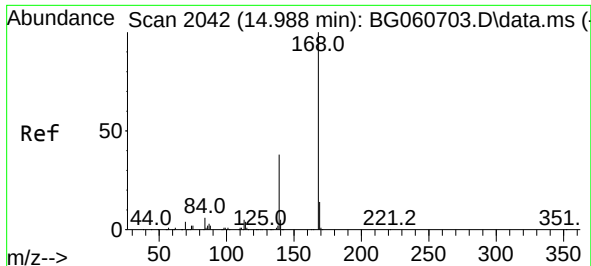
Supervised By :mohammad ahmed 04/18/2024



#52
Acenaphthene
Concen: 6.113 ng
RT: 14.642 min Scan# 1983
Delta R.T. -0.012 min
Lab File: BG060906.D
Acq: 15 Apr 2024 18:31

Tgt Ion:154 Resp: 64765
Ion Ratio Lower Upper
154 100
153 114.9 93.9 140.9
152 54.2 44.1 66.1





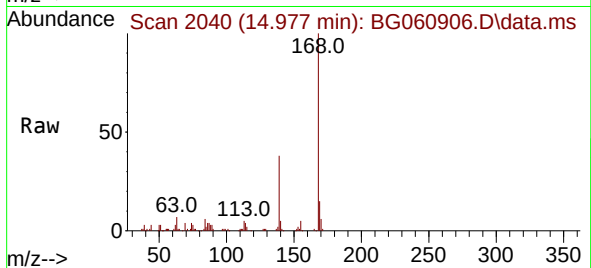
#55
Dibenzenofuran
Concen: 4.986 ng
RT: 14.977 min Scan# 2040
Delta R.T. -0.011 min
Lab File: BG060906.D
Acq: 15 Apr 2024 18:31

Instrument :

BNA_G

ClientSampleId :

OR-02-041124DL



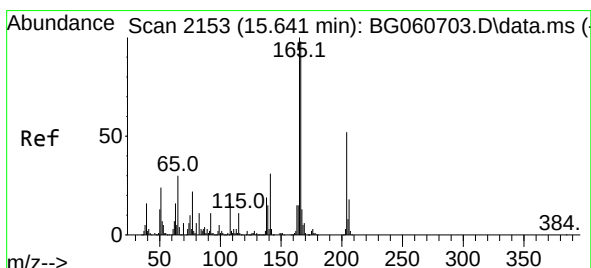
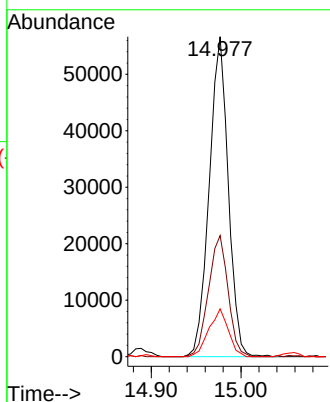
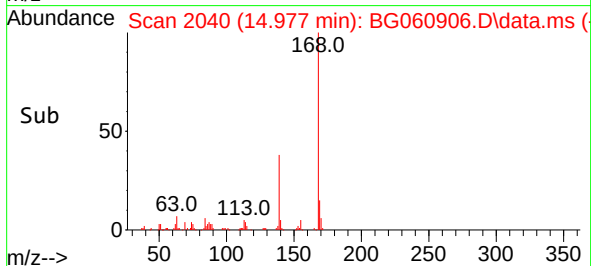
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139 37.9 30.1 45.1
169 15.0 11.0 16.4

Manual Integrations

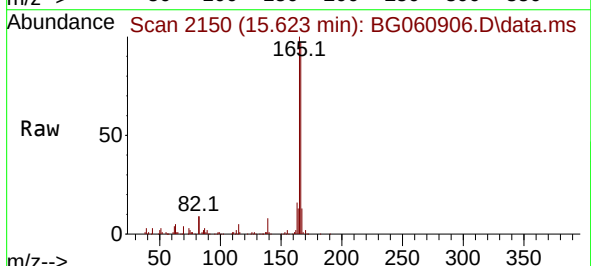
APPROVED

Reviewed By :Yogesh Patel 04/17/2024

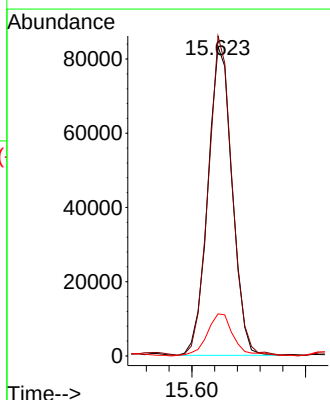
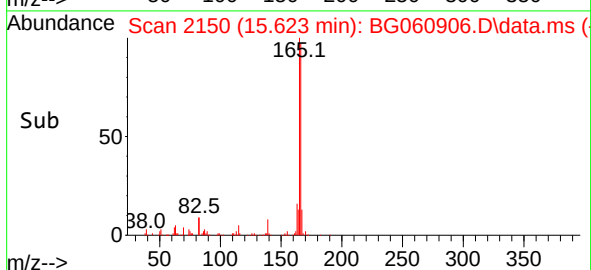
Supervised By :mohammad ahmed 04/18/2024

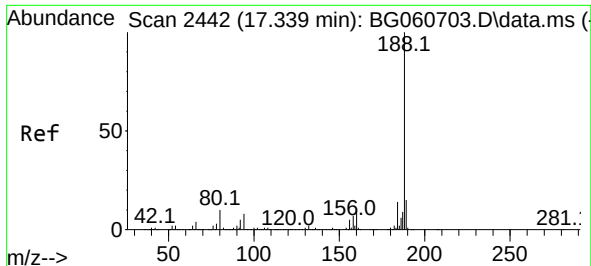


#58
Fluorene
Concen: 9.210 ng
RT: 15.623 min Scan# 2150
Delta R.T. -0.018 min
Lab File: BG060906.D
Acq: 15 Apr 2024 18:31



Tgt Ion:166 Resp: 123532
Ion Ratio Lower Upper
166 100
165 103.5 81.8 122.8
167 13.6 10.9 16.3





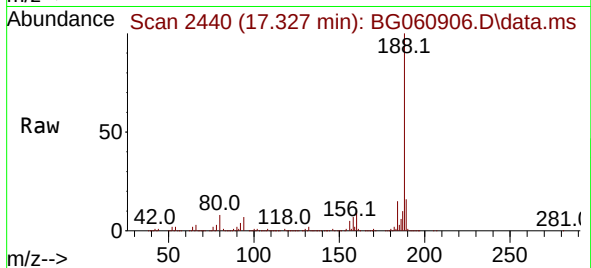
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.327 min Scan# 2442
Delta R.T. -0.012 min
Lab File: BG060906.D
Acq: 15 Apr 2024 18:31

Instrument :

BNA_G

ClientSampleId :

OR-02-041124DL



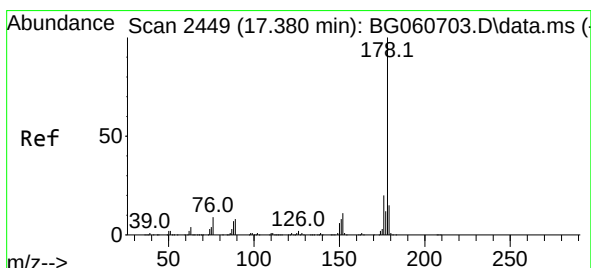
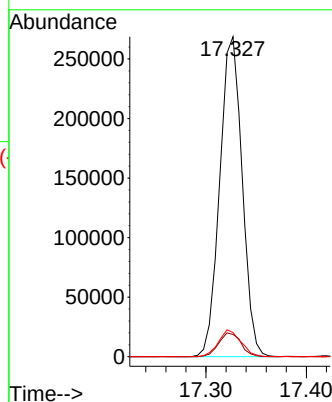
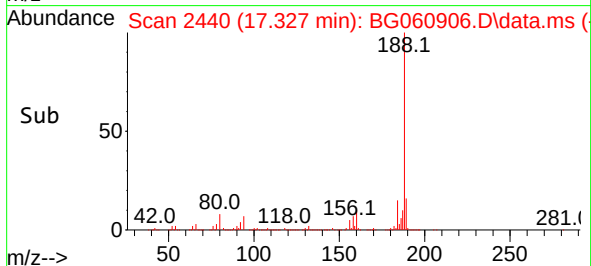
Tgt Ion:188 Resp: 416279
Ion Ratio Lower Upper
188 100
94 7.0 6.6 9.8
80 7.6 7.6 11.4

Manual Integrations

APPROVED

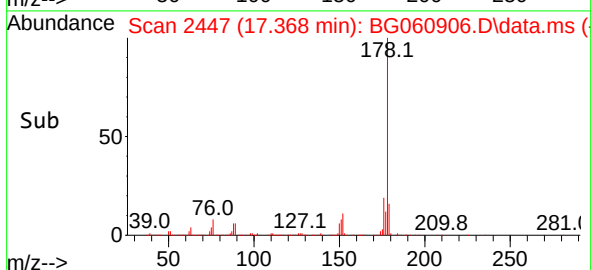
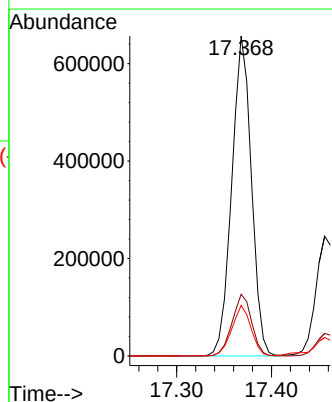
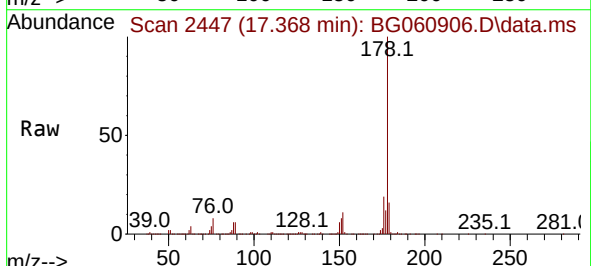
Reviewed By :Yogesh Patel 04/17/2024

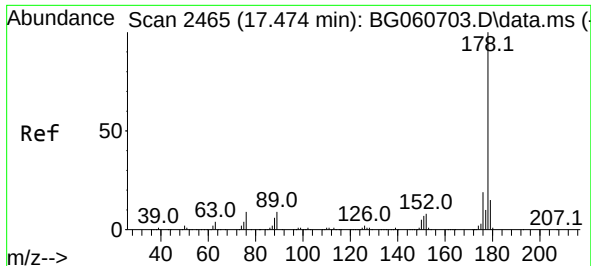
Supervised By :mohammad ahmed 04/18/2024



#71
Phenanthrene
Concen: 43.629 ng
RT: 17.368 min Scan# 2447
Delta R.T. -0.012 min
Lab File: BG060906.D
Acq: 15 Apr 2024 18:31

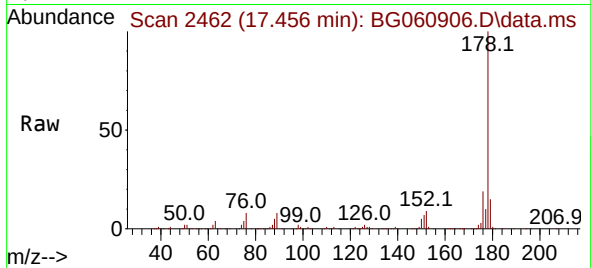
Tgt Ion:178 Resp: 944556
Ion Ratio Lower Upper
178 100
176 19.3 15.8 23.6
179 15.8 12.2 18.4





#72
 Anthracene
 Concen: 16.475 ng
 RT: 17.456 min Scan# 2462
 Delta R.T. -0.018 min
 Lab File: BG060906.D
 Acq: 15 Apr 2024 18:31

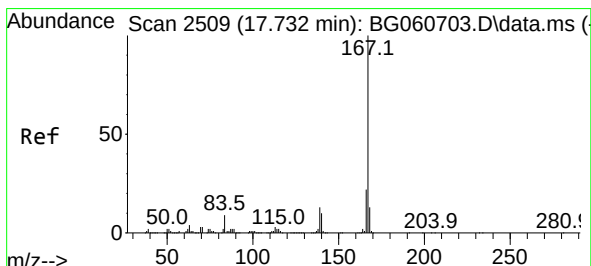
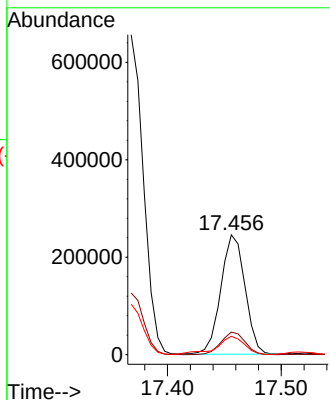
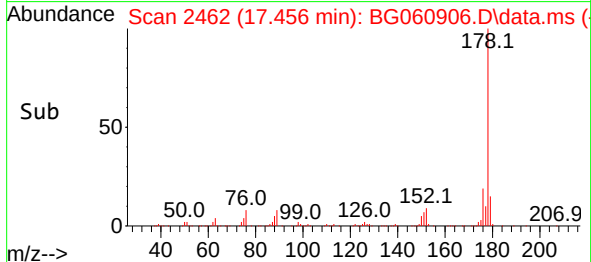
Instrument :
 BNA_G
 ClientSampleId :
 OR-02-041124DL



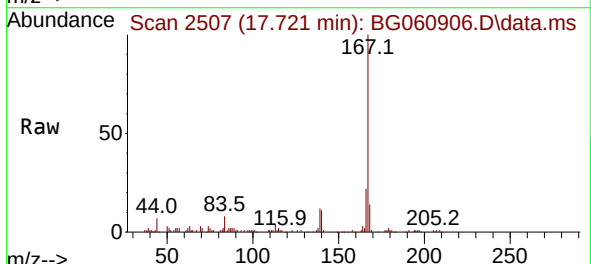
Tgt Ion:178 Resp: 36223
 Ion Ratio Lower Upper
 178 100
 176 18.8 15.5 23.3
 179 15.4 12.2 18.2

Manual Integrations
 APPROVED

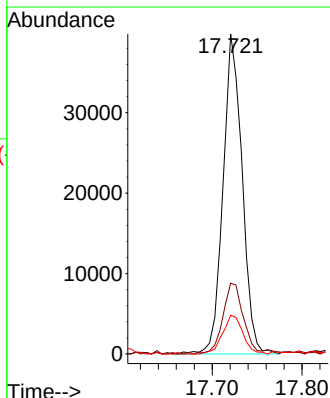
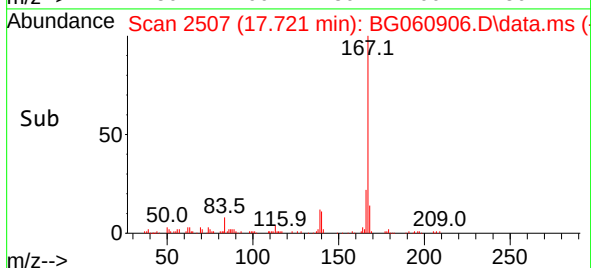
Reviewed By :Yogesh Patel 04/17/2024
 Supervised By :mohammad ahmed 04/18/2024

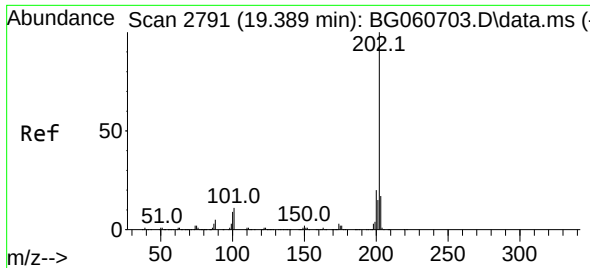


#73
 Carbazole
 Concen: 3.034 ng
 RT: 17.721 min Scan# 2507
 Delta R.T. -0.012 min
 Lab File: BG060906.D
 Acq: 15 Apr 2024 18:31



Tgt Ion:167 Resp: 58815
 Ion Ratio Lower Upper
 167 100
 166 22.1 18.0 27.0
 139 12.1 10.5 15.7





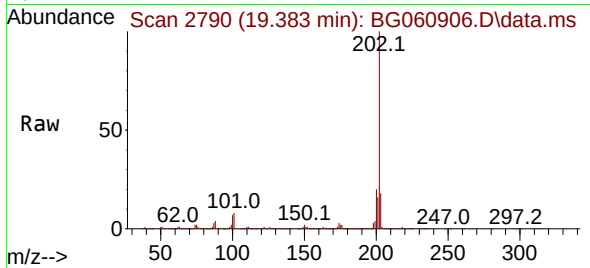
#75
Fluoranthene
Concen: 44.355 ng
RT: 19.383 min Scan# 21
Delta R.T. -0.006 min
Lab File: BG060906.D
Acq: 15 Apr 2024 18:31

Instrument :

BNA_G

ClientSampleId :

OR-02-041124DL



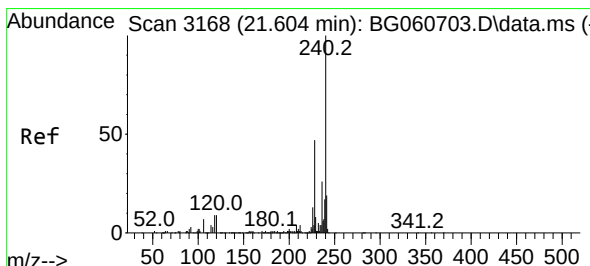
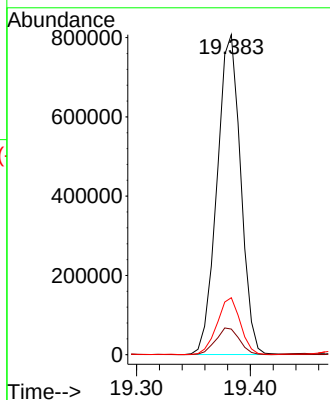
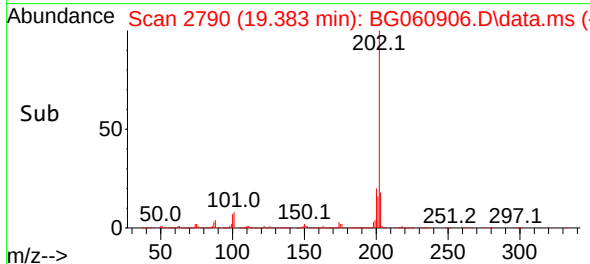
Tgt Ion:202 Resp: 116523
Ion Ratio Lower Upper
202 100
101 8.0 0.0 30.8
203 17.8 0.0 37.4

Manual Integrations

APPROVED

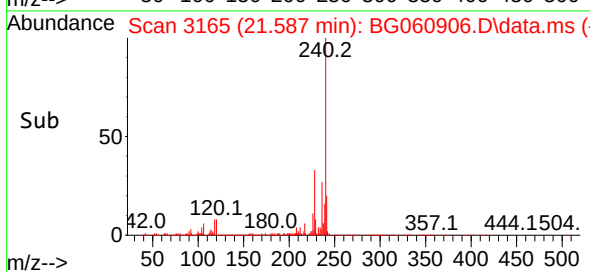
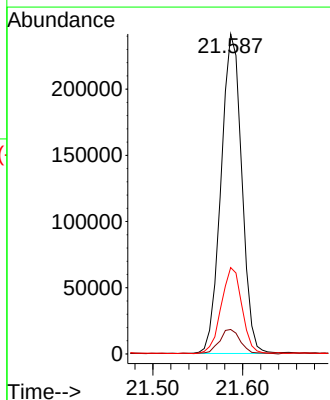
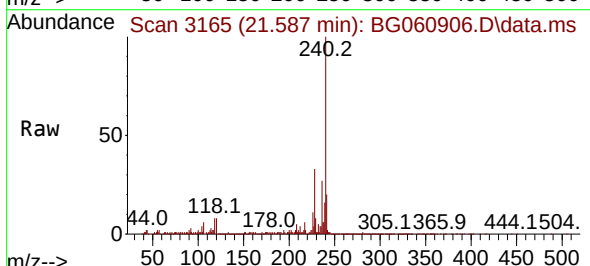
Reviewed By :Yogesh Patel 04/17/2024

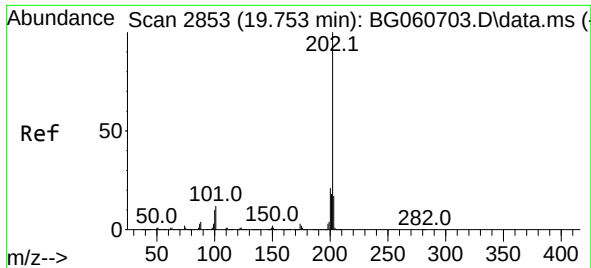
Supervised By :mohammad ahmed 04/18/2024



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.587 min Scan# 3165
Delta R.T. -0.018 min
Lab File: BG060906.D
Acq: 15 Apr 2024 18:31

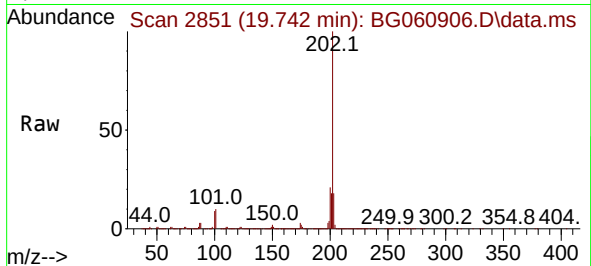
Tgt Ion:240 Resp: 387191
Ion Ratio Lower Upper
240 100
120 7.7 7.1 10.7
236 27.0 20.7 31.1





#78
Pyrene
Concen: 35.765 ng
RT: 19.742 min Scan# 2851
Delta R.T. -0.012 min
Lab File: BG060906.D
Acq: 15 Apr 2024 18:31

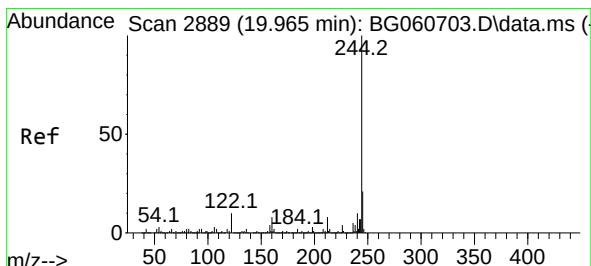
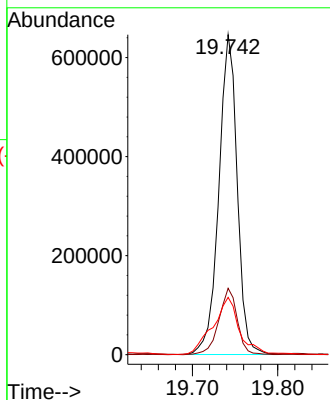
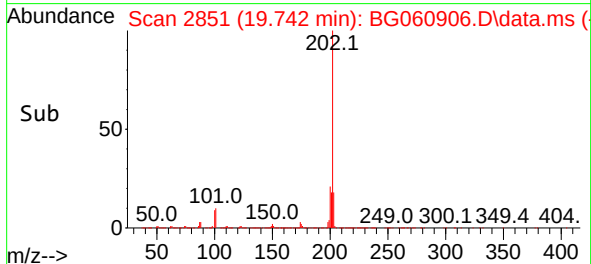
Instrument :
BNA_G
ClientSampleId :
OR-02-041124DL



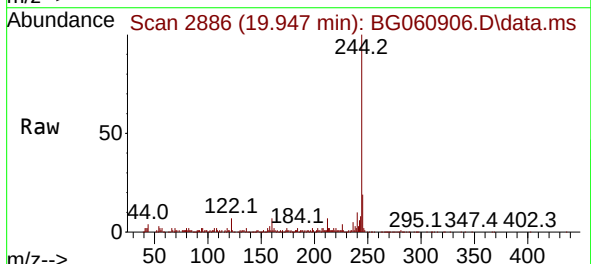
Tgt Ion:202 Resp: 96849
Ion Ratio Lower Upper
202 100
200 20.7 17.0 25.4
203 17.9 14.0 21.0

Manual Integrations
APPROVED

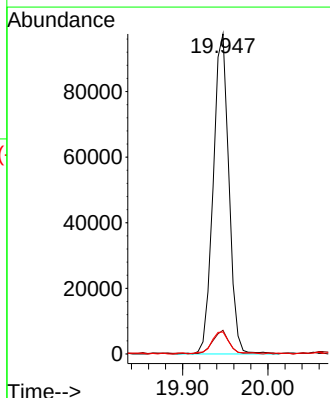
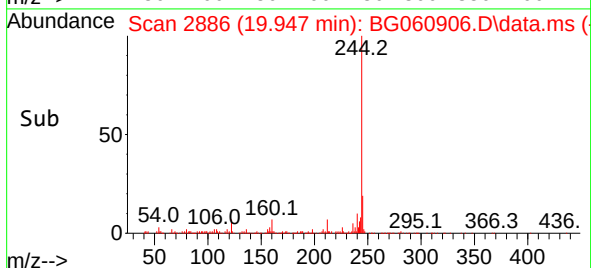
Reviewed By :Yogesh Patel 04/17/2024
Supervised By :mohammad ahmed 04/18/2024

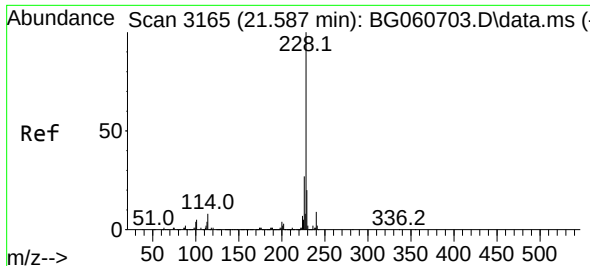


#79
Terphenyl-d14
Concen: 5.673 ng
RT: 19.947 min Scan# 2886
Delta R.T. -0.018 min
Lab File: BG060906.D
Acq: 15 Apr 2024 18:31



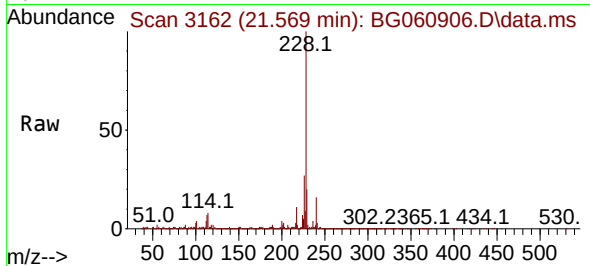
Tgt Ion:244 Resp: 124747
Ion Ratio Lower Upper
244 100
212 7.4 6.2 9.2
122 6.9 7.8 11.8#





#81
Benzo(a)anthracene
Concen: 19.867 ng
RT: 21.569 min Scan# 3162
Delta R.T. -0.018 min
Lab File: BG060906.D
Acq: 15 Apr 2024 18:31

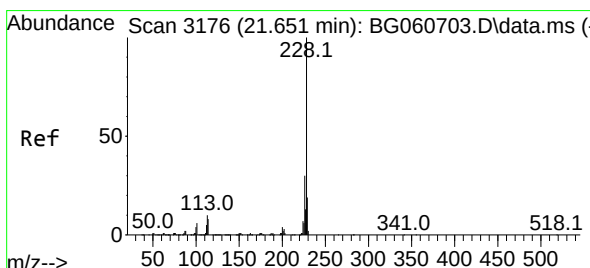
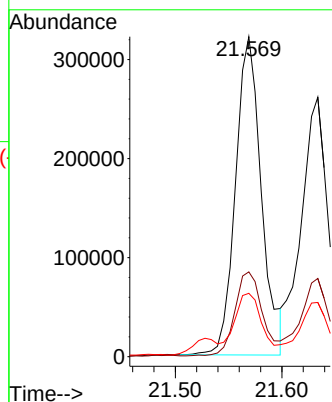
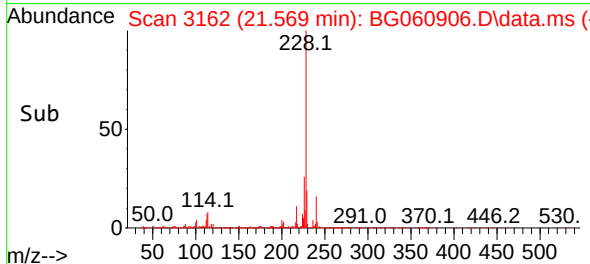
Instrument :
BNA_G
ClientSampleId :
OR-02-041124DL



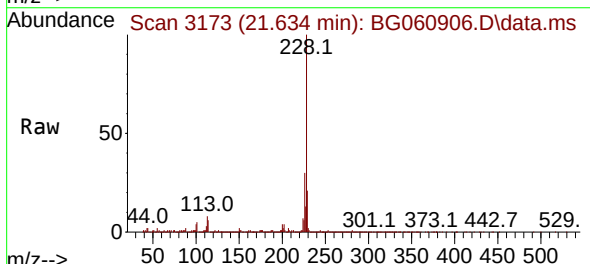
Tgt Ion:228 Resp: 542239
Ion Ratio Lower Upper
228 100
226 26.5 21.7 32.5
229 19.8 15.8 23.8

Manual Integrations
APPROVED

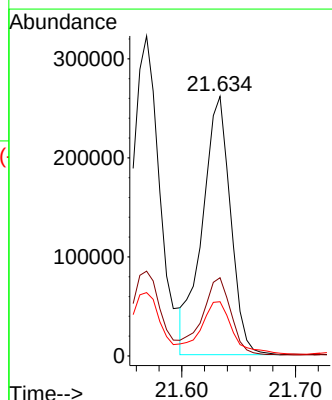
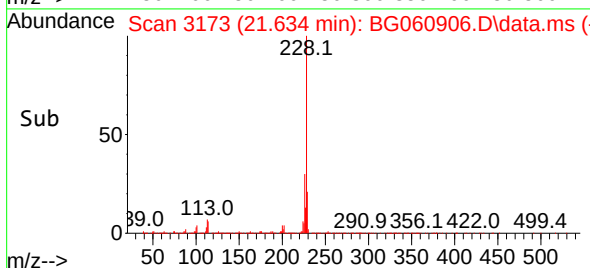
Reviewed By :Yogesh Patel 04/17/2024
Supervised By :mohammad ahmed 04/18/2024

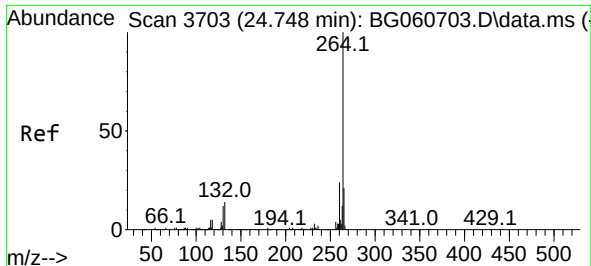


#83
Chrysene
Concen: 17.135 ng
RT: 21.634 min Scan# 3173
Delta R.T. -0.018 min
Lab File: BG060906.D
Acq: 15 Apr 2024 18:31



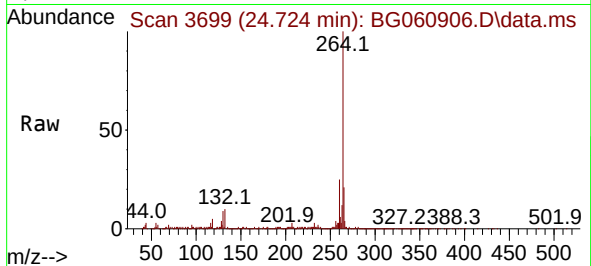
Tgt Ion:228 Resp: 450752
Ion Ratio Lower Upper
228 100
226 30.2 24.2 36.4
229 20.9 15.5 23.3





#86
Perylene-d12
Concen: 20.000 ng
RT: 24.724 min Scan# 30
Delta R.T. -0.024 min
Lab File: BG060906.D
Acq: 15 Apr 2024 18:31

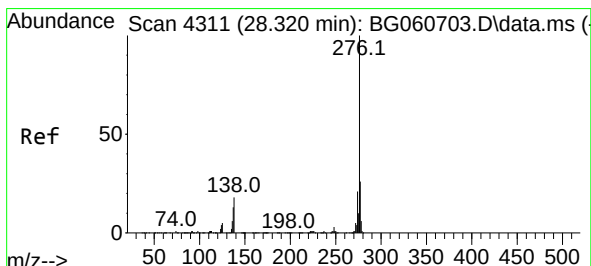
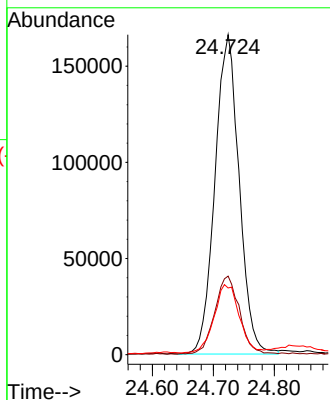
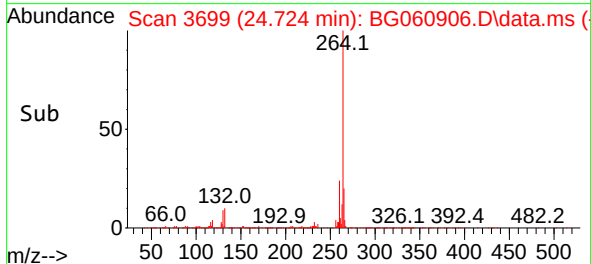
Instrument :
BNA_G
ClientSampleId :
OR-02-041124DL



Tgt Ion:264 Resp: 458777
Ion Ratio Lower Upper
264 100
260 24.6 19.5 29.3
265 20.8 16.9 25.3

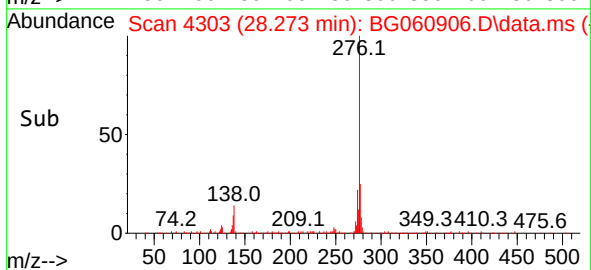
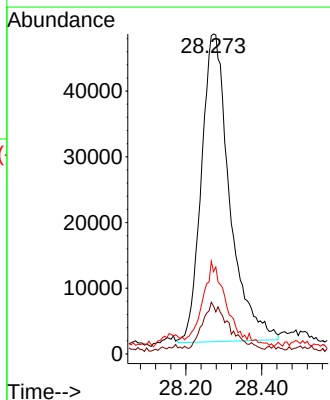
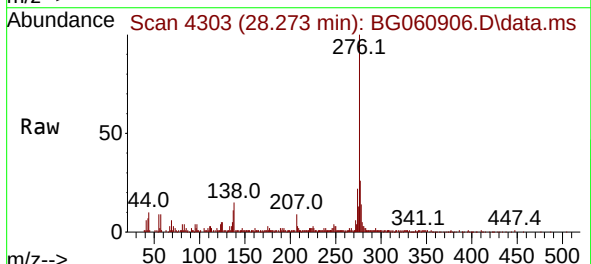
Manual Integrations
APPROVED

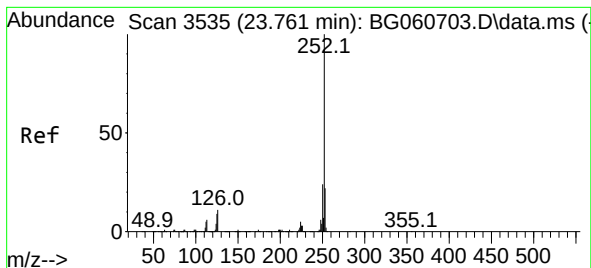
Reviewed By :Yogesh Patel 04/17/2024
Supervised By :mohammad ahmed 04/18/2024



#87
Indeno(1,2,3-cd)pyrene
Concen: 7.494 ng
RT: 28.273 min Scan# 4303
Delta R.T. -0.047 min
Lab File: BG060906.D
Acq: 15 Apr 2024 18:31

Tgt Ion:276 Resp: 242119
Ion Ratio Lower Upper
276 100
138 13.0 12.4 18.6
277 24.3 20.2 30.2





#88

Benzo(b)fluoranthene

Concen: 20.617 ng

RT: 23.737 min Scan# 3

Delta R.T. -0.024 min

Lab File: BG060906.D

Acq: 15 Apr 2024 18:31

Instrument :

BNA_G

ClientSampleId :

OR-02-041124DL

Tgt Ion:252 Resp: 54338

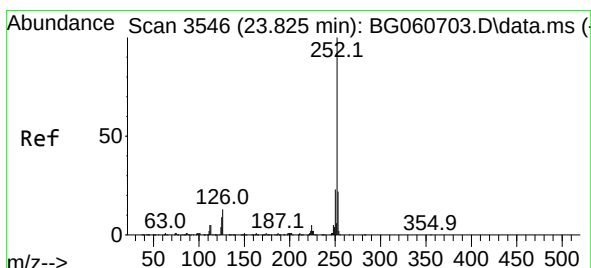
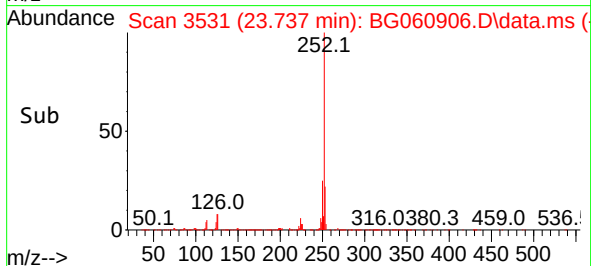
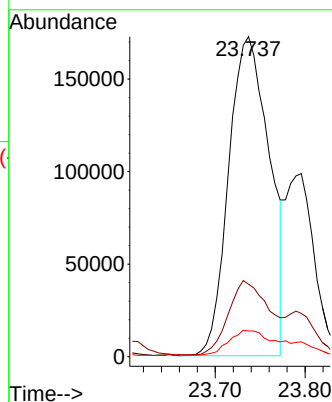
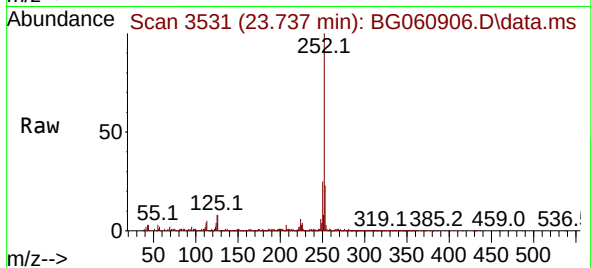
Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.8	26.8
125	8.1	7.1	10.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 04/17/2024

Supervised By :mohammad ahmed 04/18/2024



#89

Benzo(k)fluoranthene

Concen: 7.868 ng m

RT: 23.796 min Scan# 3541

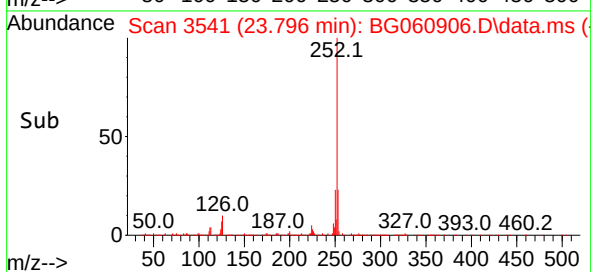
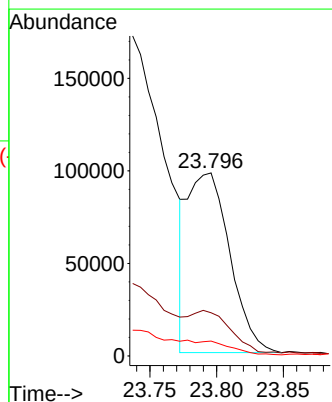
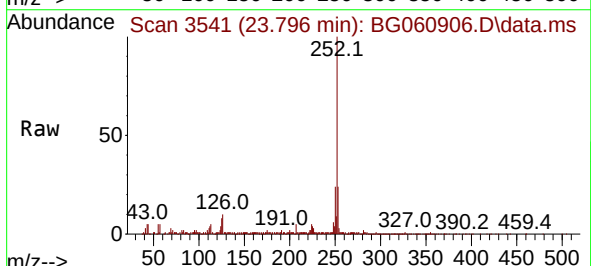
Delta R.T. -0.029 min

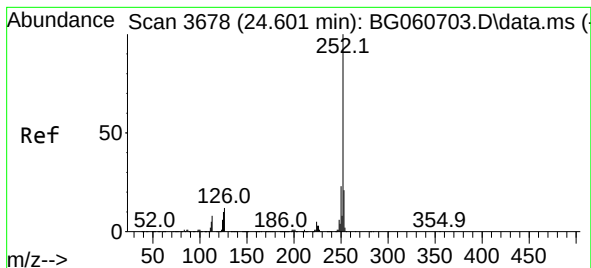
Lab File: BG060906.D

Acq: 15 Apr 2024 18:31

Tgt Ion:252 Resp: 212243

Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.6	26.4
125	8.1	7.5	11.3





#90

Benzo(a)pyrene

Concen: 16.883 ng

RT: 24.577 min Scan# 30

Delta R.T. -0.024 min

Lab File: BG060906.D

Acq: 15 Apr 2024 18:31

Instrument :

BNA_G

ClientSampleId :

OR-02-041124DL

Tgt Ion:252 Resp: 43244

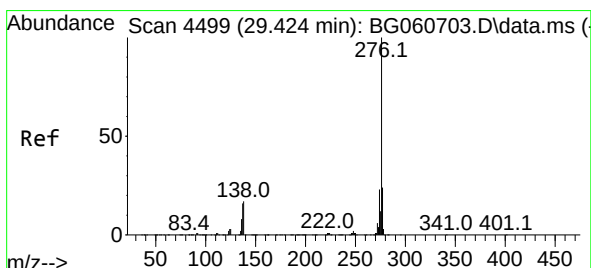
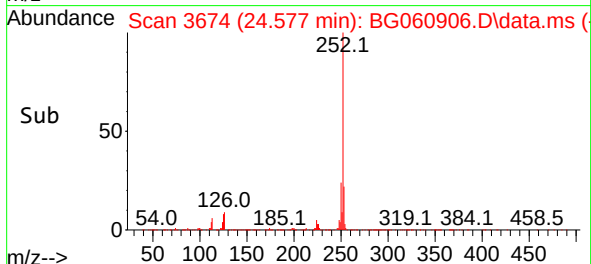
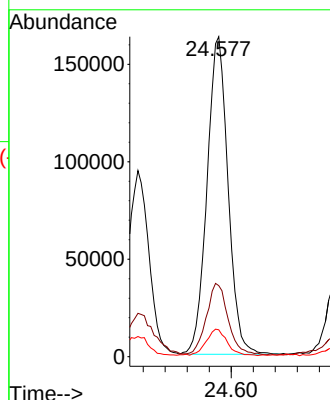
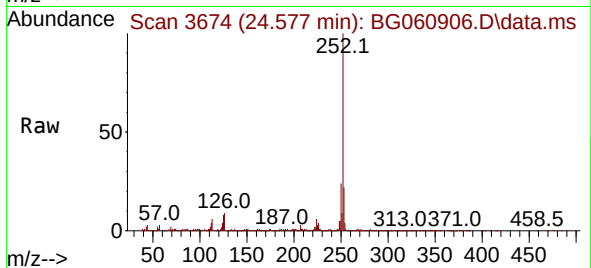
Ion	Ratio	Lower	Upper
252	100		
253	22.2	16.8	25.2
125	8.4	7.6	11.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 04/17/2024

Supervised By :mohammad ahmed 04/18/2024



#92

Benzo(g,h,i)perylene

Concen: 8.627 ng

RT: 29.383 min Scan# 4492

Delta R.T. -0.041 min

Lab File: BG060906.D

Acq: 15 Apr 2024 18:31

Tgt Ion:276 Resp: 228544

Ion	Ratio	Lower	Upper
276	100		
277	22.7	18.9	28.3
138	16.0	14.0	21.0

