

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG091223\
 Data File : BG059030.D
 Acq On : 13 Sep 2023 4:56
 Operator : MA/JU
 Sample : 04175-10
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 EZYK4

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 09/13/2023
 Supervised By :mohammad ahmed 09/14/2023

Quant Time: Sep 13 05:35:23 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\SFAM-EPA-BG091023.MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Sep 12 23:54:19 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.314	152	84135	20.000	ng/ul	0.00
20) Naphthalene-d8	11.157	136	378382	20.000	ng/ul	0.00
38) Acenaphthene-d10	14.941	164	238739	20.000	ng/ul	0.00
64) Phenanthrene-d10	17.691	188	515638	20.000	ng/ul	# 0.00
79) Chrysene-d12	22.039	240	433425	20.000	ng/ul	# 0.03
88) Perylene-d12	25.629	264	532460	20.000	ng/ul	0.06
System Monitoring Compounds						
3) 1,4-Dioxane-d8	3.625	96	6125m	3.094	ng/uL	0.00
4) Pyridine-d5	0.000	84	0d	0.000	ng/ul	
7) Phenol-d5	7.427	99	163974	19.327	ng/ul	0.00
9) Bis-(2-Chloroethyl)eth...	7.632	67	94005	18.896	ng/ul	0.00
11) 2-Chlorophenol-d4	7.832	132	110923	20.385	ng/ul	0.00
15) 4-Methylphenol-d8	8.995	113	128871	19.661	ng/ul	0.00
21) Nitrobenzene-d5	9.512	128	62949	22.935	ng/ul	0.00
24) 2-Nitrophenol-d4	10.229	143	68281	22.673	ng/ul	0.00
28) 2,4-Dichlorophenol-d3	10.752	165	139685	21.824	ng/ul	0.00
31) 4-Chloroaniline-d4	11.298	131	86251	10.021	ng/ul	0.00
46) Dimethylphthalate-d6	14.336	166	451261	24.368	ng/ul	0.00
49) Acenaphthylene-d8	14.642	160	534150	25.902	ng/ul	0.00
54) 4-Nitrophenol-d4	15.106	143	43758	14.225	ng/ul	0.00
60) Fluorene-d10	15.928	176	415643	25.291	ng/ul	0.00
65) 4,6-Dinitro-2-methylph...	16.034	200	37727	14.905	ng/ul	0.00
73) Anthracene-d10	17.791	188	626257	27.359	ng/ul	0.00
81) Pyrene-d10	20.071	212	637644	27.772	ng/ul	0.00
92) Benzo(a)pyrene-d12	25.382	264	677528	25.958	ng/ul	0.06
Target Compounds						Qvalue
16) Acetophenone	9.160	105	79538	7.319	ng/ul	99
30) Naphthalene	11.204	128	123063	6.170	ng/ul	95
36) 2-Methylnaphthalene	12.791	142	95909	6.444	ng/ul	91
37) 1-Methylnaphthalene	13.008	142	119680	8.153	ng/ul#	94
43) 1,1'-Biphenyl	13.778	154	21708	1.216	ng/ul#	91
50) Acenaphthylene	14.677	152	153481	6.827	ng/ul	98
52) Acenaphthene	15.006	153	70231	4.655	ng/ul	95
56) Dibenzofuran	15.335	168	86428	3.955	ng/ul	95
61) Fluorene	15.987	166	294035	16.371	ng/ul#	96
72) Phenanthrene	17.738	178	1501478	57.374	ng/ul	98
74) Anthracene	17.832	178	555417	20.882	ng/ul	99
77) Carbazole	18.096	167	53784	2.415	ng/ul#	61
78) Di-n-butylphthalate	18.608	149	37323	1.512	ng/ul#	48
80) Fluoranthene	19.736	202	1832071	68.714	ng/ul#	97
82) Pyrene	20.100	202	1419618	51.216	ng/ul	97
85) Benzo(a)anthracene	22.009	228	1001751	34.464	ng/ul#	89
87) Chrysene	22.086	228	903007	33.418	ng/ul#	86
90) Benzo(b)fluoranthene	24.471	252	1030507	32.489	ng/ul#	86
91) Benzo(k)fluoranthene	24.536	252	398223m	12.285	ng/ul	
93) Benzo(a)pyrene	25.458	252	590507	19.954	ng/ul#	81
94) Indeno(1,2,3-cd)pyrene	29.783	276	428274m	11.453	ng/ul	
95) Dibenzo(a,h)anthracene	29.824	278	154509m	4.987	ng/ul	
96) Benzo(g,h,i)perylene	31.093	276	351529m	11.877	ng/ul	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

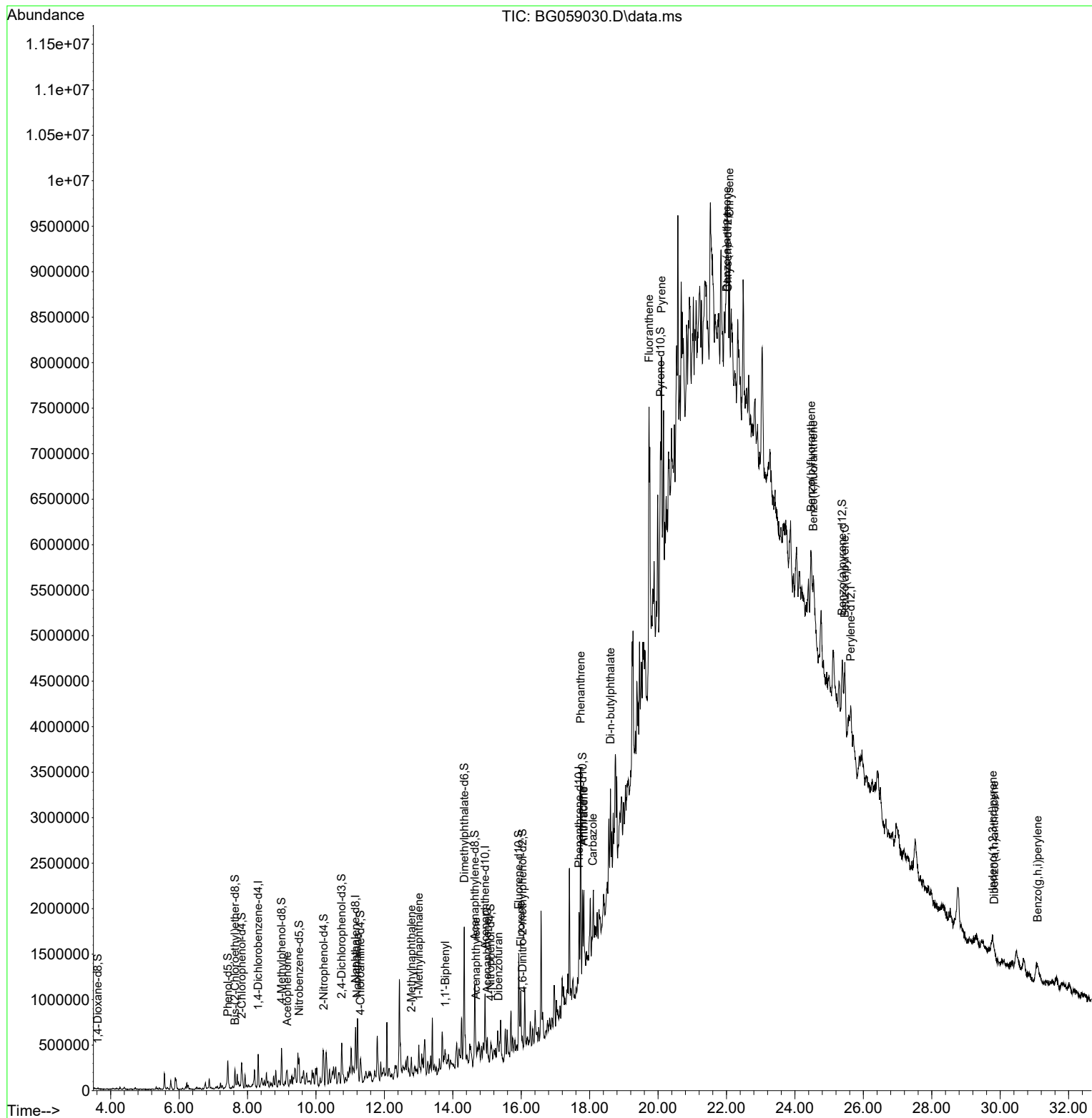
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG091223\
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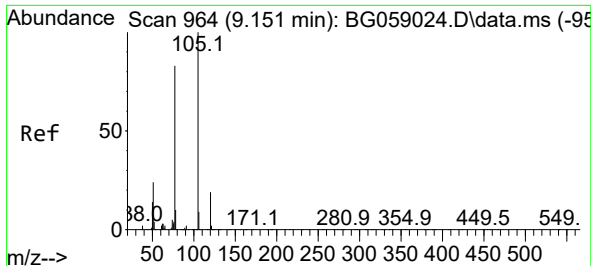
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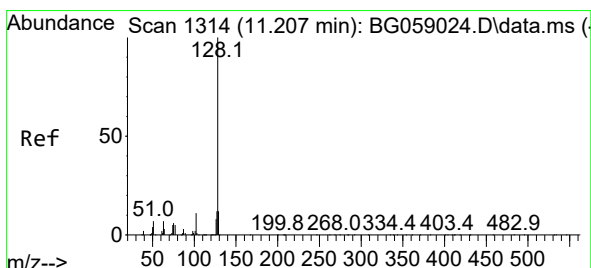
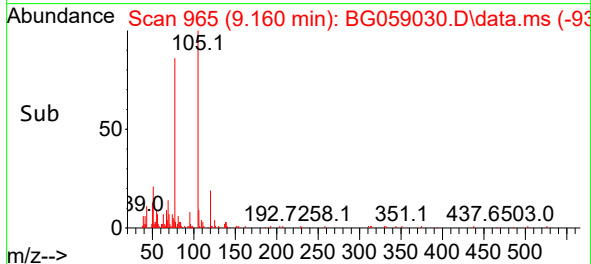
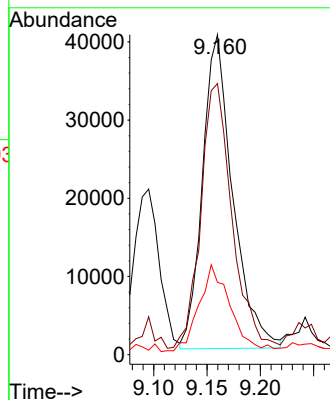
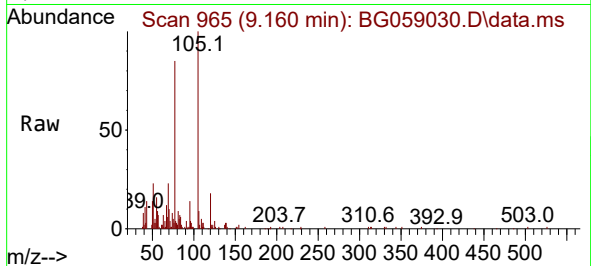
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Acetophenone
Concen: 7.319 ng/ul
RT: 9.160 min Scan# 90
Delta R.T. 0.008 min
Lab File: BG059030.D
Acq: 13 Sep 2023 4:56

Instrument :
BNA_G
ClientSampleId :
EZYK4

Tgt Ion:105 Resp: 79538
Ion Ratio Lower Upper
105 100
77 84.7 67.3 100.9
51 22.6 19.3 28.9

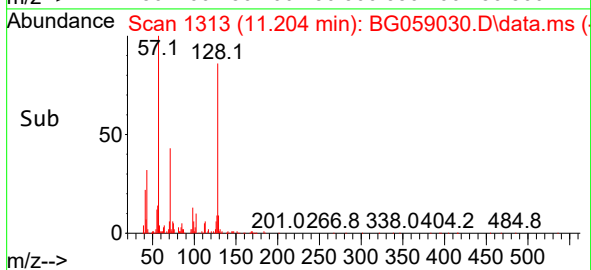
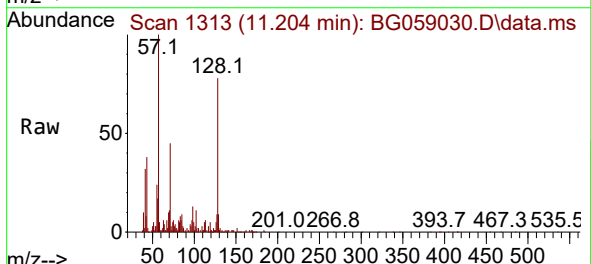
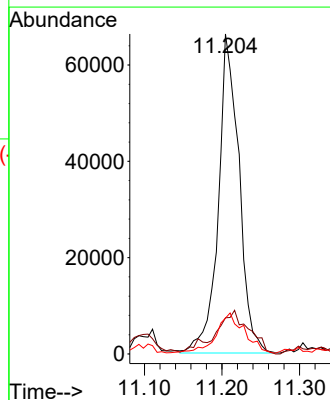
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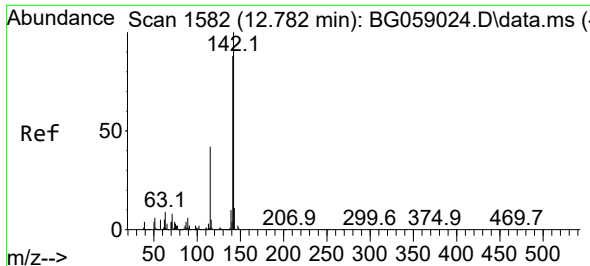
Reviewed By :Yogesh Patel 09/13/2023
Supervised By :mohammad ahmed 09/14/2023



#30
Naphthalene
Concen: 6.170 ng/ul
RT: 11.204 min Scan# 1313
Delta R.T. -0.003 min
Lab File: BG059030.D
Acq: 13 Sep 2023 4:56

Tgt Ion:128 Resp: 123063
Ion Ratio Lower Upper
128 100
129 11.3 8.2 12.2
127 11.2 10.9 16.3





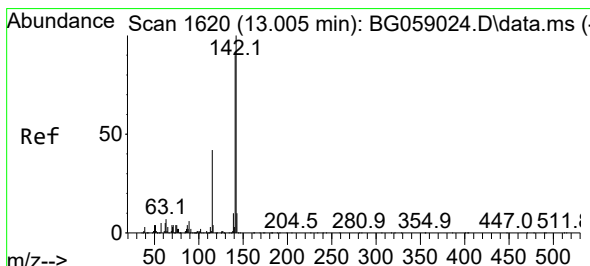
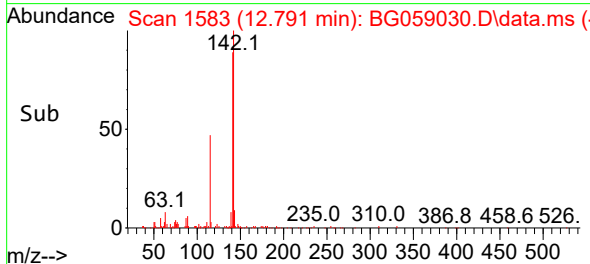
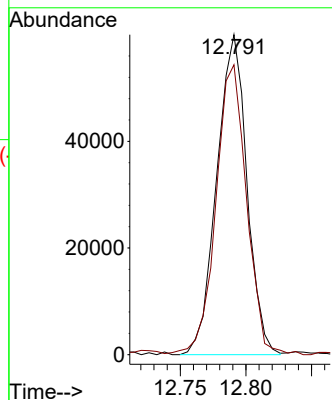
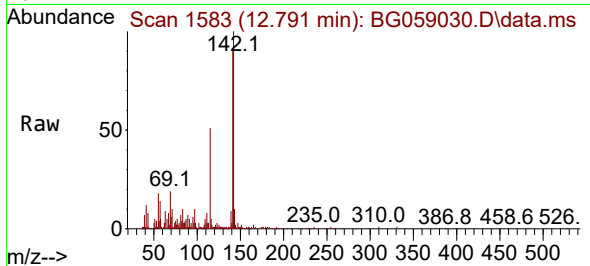
#36
2-Methylnaphthalene
Concen: 6.444 ng/ul
RT: 12.791 min Scan# 1582
Delta R.T. 0.002 min
Lab File: BG059030.D
Acq: 13 Sep 2023 4:56

Instrument :
BNA_G
ClientSampleId :
EZYK4

Tgt Ion:142 Resp: 95909
Ion Ratio Lower Upper
142 100
141 90.6 65.7 98.5

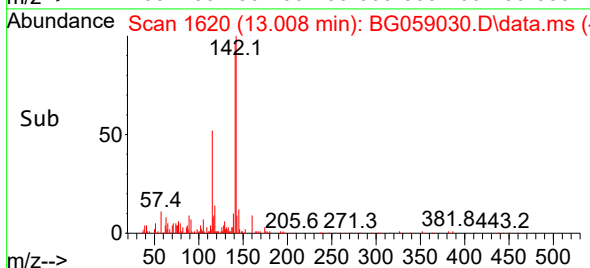
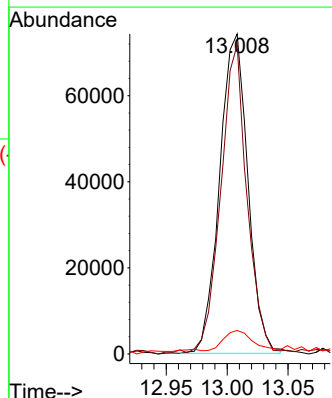
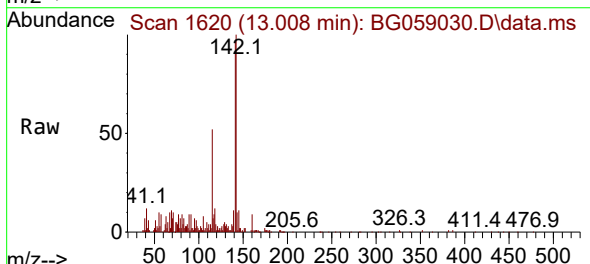
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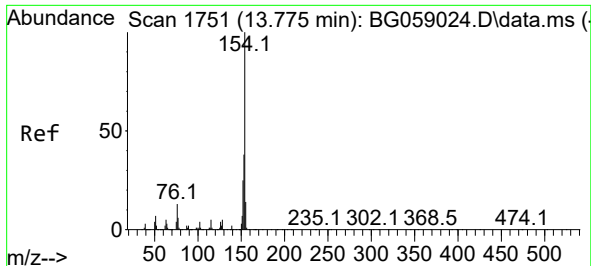
Reviewed By :Yogesh Patel 09/13/2023
Supervised By :mohammad ahmed 09/14/2023



#37
1-Methylnaphthalene
Concen: 8.153 ng/ul
RT: 13.008 min Scan# 1620
Delta R.T. 0.002 min
Lab File: BG059030.D
Acq: 13 Sep 2023 4:56

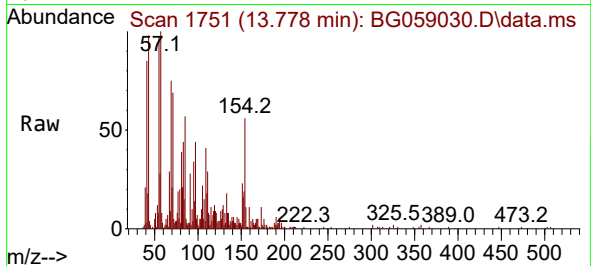
Tgt Ion:142 Resp: 119680
Ion Ratio Lower Upper
142 100
141 96.6 73.1 109.7
116 7.4 3.4 5.0#





#43
1,1'-Biphenyl
Concen: 1.216 ng/ul
RT: 13.778 min Scan# 1751
Delta R.T. 0.002 min
Lab File: BG059030.D
Acq: 13 Sep 2023 4:56

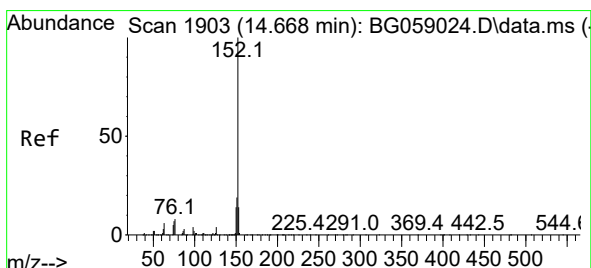
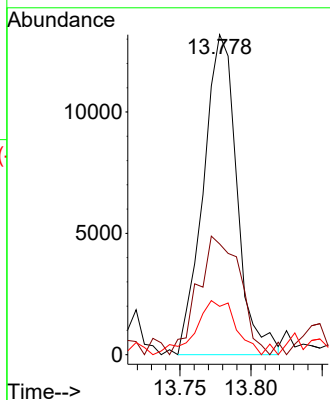
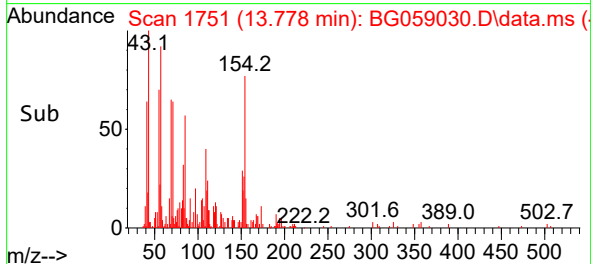
Instrument :
BNA_G
ClientSampleId :
EZYK4



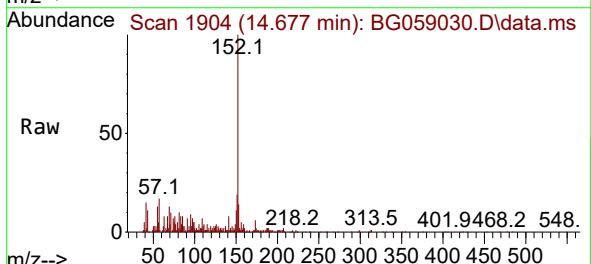
Tgt Ion:154 Resp: 21708
Ion Ratio Lower Upper
154 100
153 34.6 31.6 47.4
76 15.1 9.0 13.4

Manual Integrations
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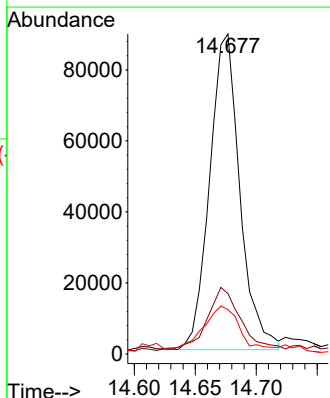
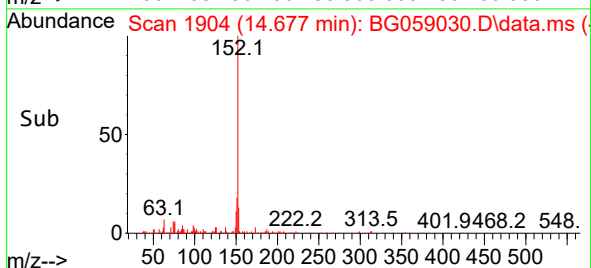
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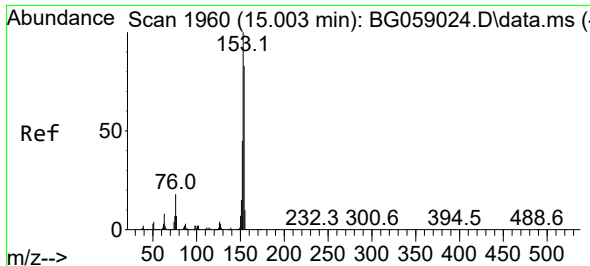


#50
Acenaphthylene
Concen: 6.827 ng/ul
RT: 14.677 min Scan# 1904
Delta R.T. 0.008 min
Lab File: BG059030.D
Acq: 13 Sep 2023 4:56



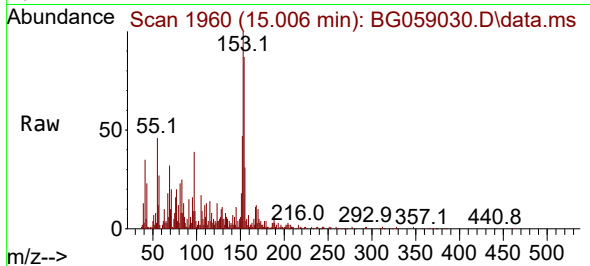
Tgt Ion:152 Resp: 153481
Ion Ratio Lower Upper
152 100
151 18.8 14.6 21.8
153 13.9 10.4 15.6





#52
Acenaphthene
Concen: 4.655 ng/ul
RT: 15.006 min Scan# 1960
Delta R.T. 0.002 min
Lab File: BG059030.D
Acq: 13 Sep 2023 4:56

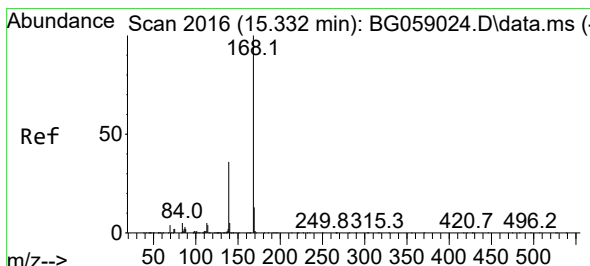
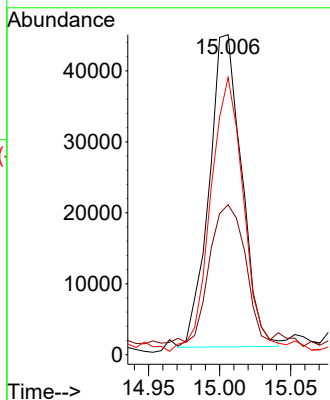
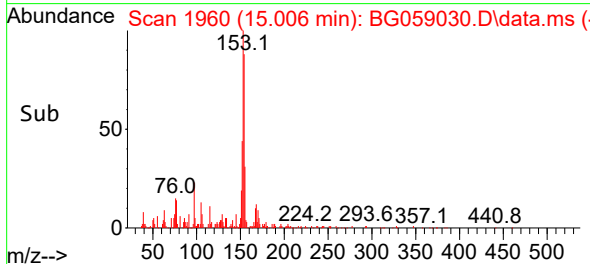
Instrument :
BNA_G
ClientSampleId :
EZYK4



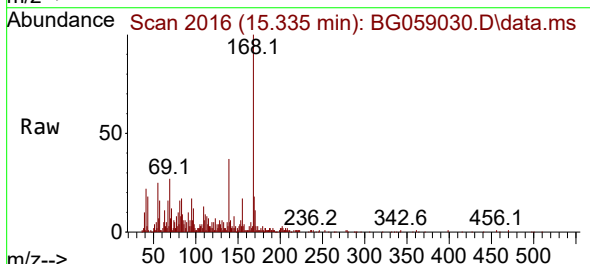
Tgt Ion:153 Resp: 7023
Ion Ratio Lower Upper
153 100
152 46.8 36.5 54.7
154 86.6 74.1 111.1

Manual Integrations
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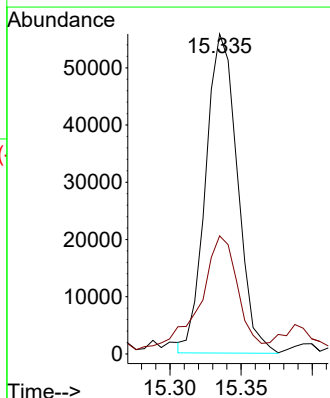
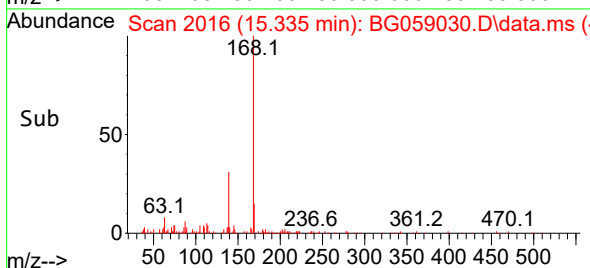
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Supervised By :mohammad ahmed 09/14/2023

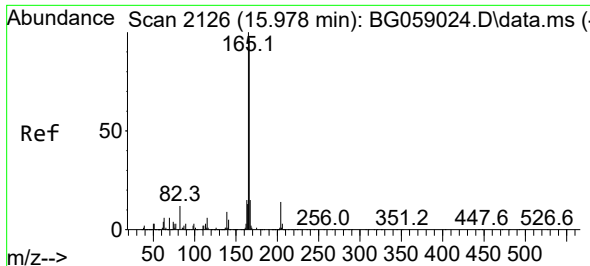


#56
Dibenzofuran
Concen: 3.955 ng/ul
RT: 15.335 min Scan# 2016
Delta R.T. -0.003 min
Lab File: BG059030.D
Acq: 13 Sep 2023 4:56



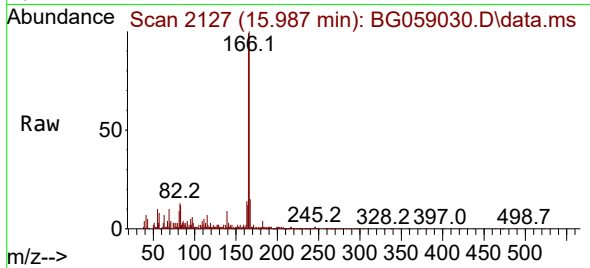
Tgt Ion:168 Resp: 86428
Ion Ratio Lower Upper
168 100
139 36.9 27.4 41.2





#61
Fluorene
Concen: 16.371 ng/ul
RT: 15.987 min Scan# 2126
Delta R.T. 0.002 min
Lab File: BG059030.D
Acq: 13 Sep 2023 4:56

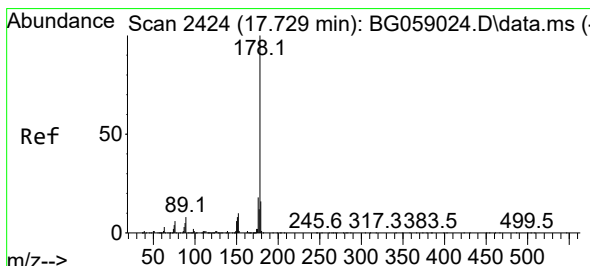
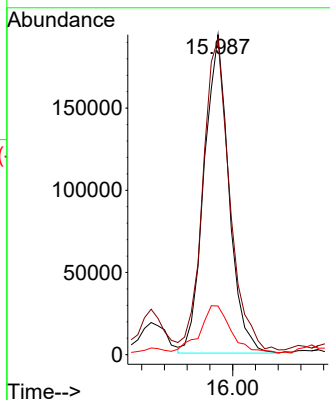
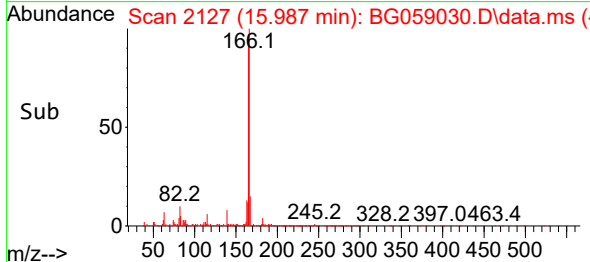
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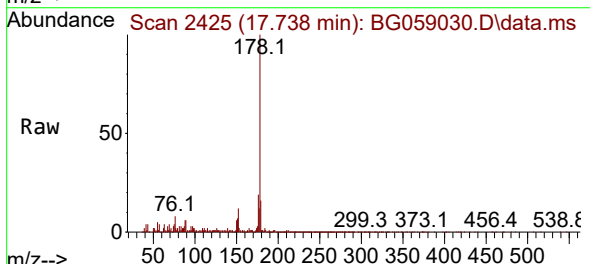
Tgt Ion:166 Resp: 294035
Ion Ratio Lower Upper
166 100
165 98.8 76.4 114.6
167 15.2 9.3 13.9

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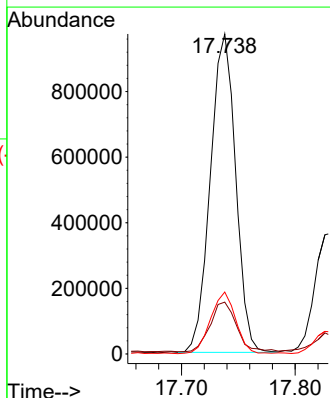
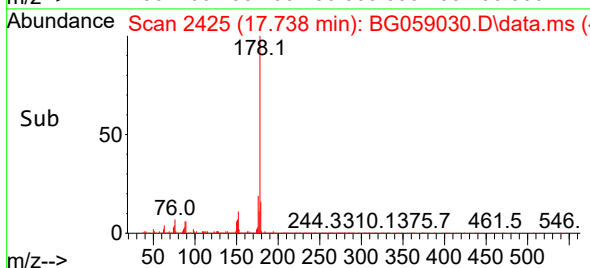
Reviewed By :Yogesh Patel 09/13/2023
Supervised By :mohammad ahmed 09/14/2023

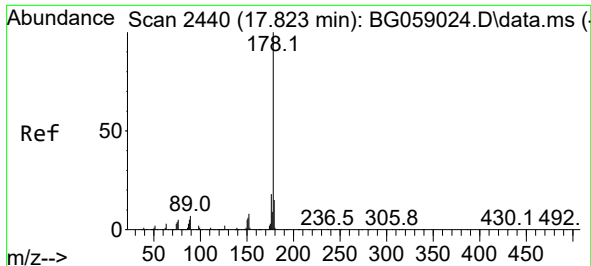


#72
Phenanthrene
Concen: 57.374 ng/ul
RT: 17.738 min Scan# 2425
Delta R.T. 0.008 min
Lab File: BG059030.D
Acq: 13 Sep 2023 4:56



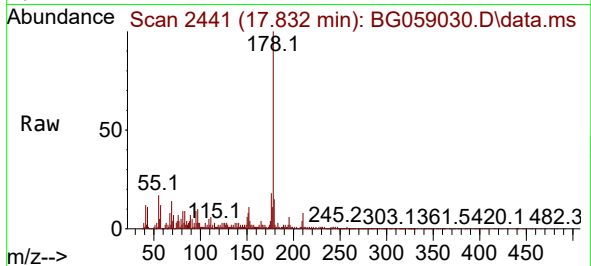
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Ion Ratio Lower Upper
178 100
179 16.2 11.8 17.8
176 19.4 15.1 22.7





#74
 Anthracene
 Concen: 20.882 ng/ul
 RT: 17.832 min Scan# 2440
 Delta R.T. 0.008 min
 Lab File: BG059030.D
 Acq: 13 Sep 2023 4:56

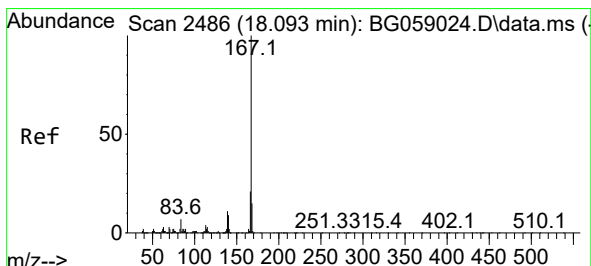
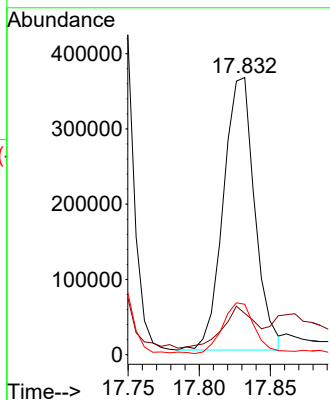
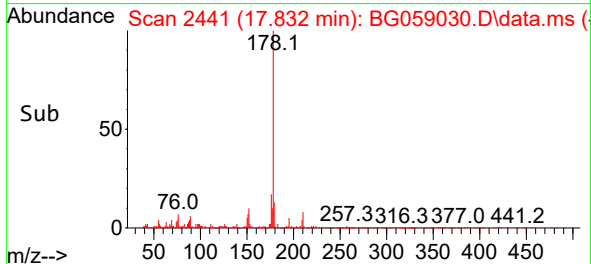
Instrument :
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Tgt Ion:178 Resp: 55541
 Ion Ratio Lower Upper
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 179 14.9 12.2 18.4
 176 18.2 14.4 21.6

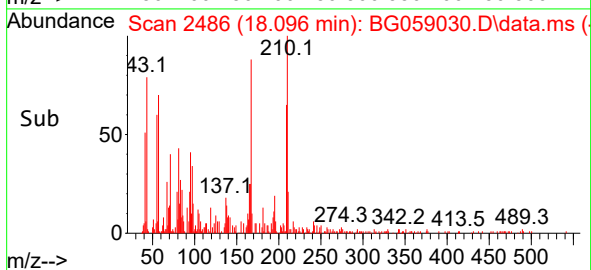
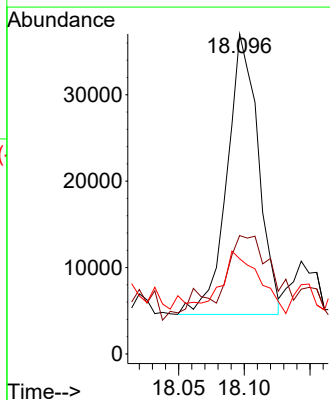
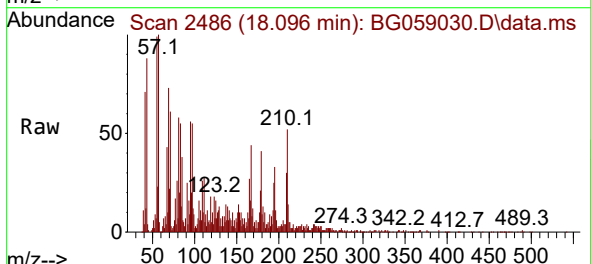
Manual Integrations
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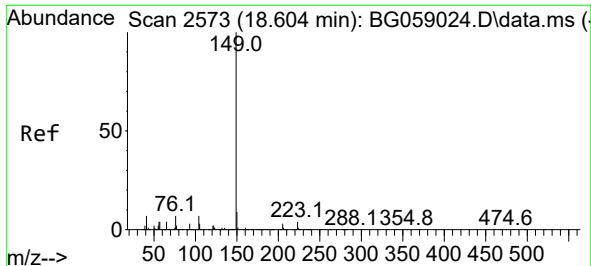
Reviewed By :Yogesh Patel 09/13/2023
 Supervised By :mohammad ahmed 09/14/2023



#77
 Carbazole
 Concen: 2.415 ng/ul
 RT: 18.096 min Scan# 2486
 Delta R.T. -0.003 min
 Lab File: BG059030.D
 Acq: 13 Sep 2023 4:56

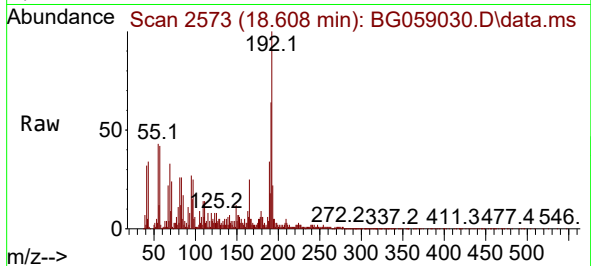
Tgt Ion:167 Resp: 53784
 Ion Ratio Lower Upper
 167 100
 166 37.0 16.8 25.2#
 139 29.7 9.4 14.2#





#78
Di-n-butylphthalate
Concen: 1.512 ng/ul
RT: 18.608 min Scan# 21
Delta R.T. 0.002 min
Lab File: BG059030.D
Acq: 13 Sep 2023 4:56

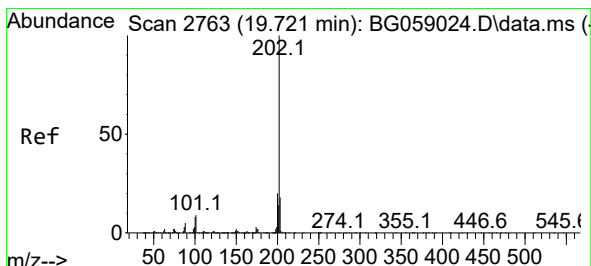
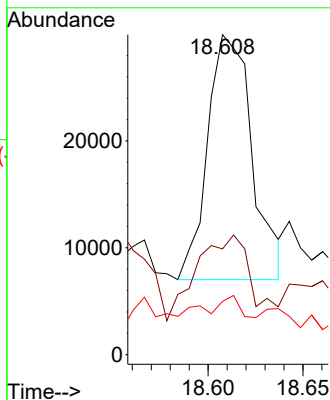
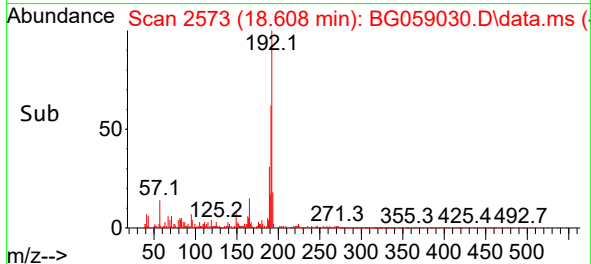
Instrument :
BNA_G
ClientSampleId :
EZYK4



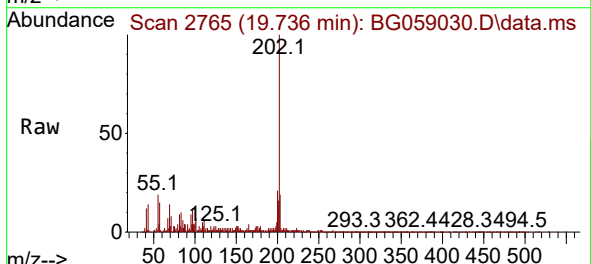
Tgt Ion:149 Resp: 3732
Ion Ratio Lower Upper
149 100
150 33.1 7.7 11.5
104 16.6 4.6 6.8

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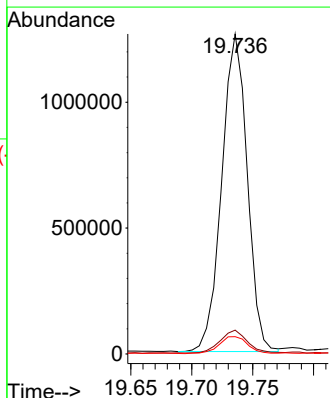
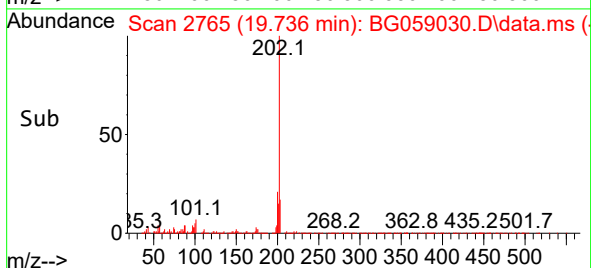
Reviewed By :Yogesh Patel 09/13/2023
Supervised By :mohammad ahmed 09/14/2023

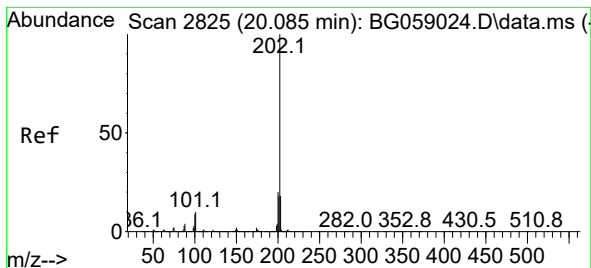


#80
Fluoranthene
Concen: 68.714 ng/ul
RT: 19.736 min Scan# 2765
Delta R.T. 0.008 min
Lab File: BG059030.D
Acq: 13 Sep 2023 4:56



Tgt Ion:202 Resp: 1832071
Ion Ratio Lower Upper
202 100
101 7.4 6.1 9.1
100 5.4 5.9 8.9





#82

Pyrene

Concen: 51.216 ng/ul

RT: 20.100 min Scan# 21

Delta R.T. 0.008 min

Lab File: BG059030.D

Acq: 13 Sep 2023 4:56

Instrument :

BNA_G

ClientSampleId :

EZYK4

Tgt Ion:202 Resp: 1419618

Ion Ratio Lower Upper

202 100

101 8.1 7.5 11.3

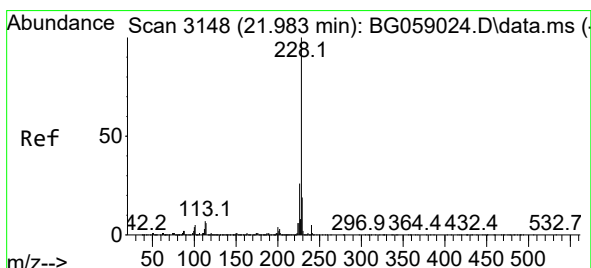
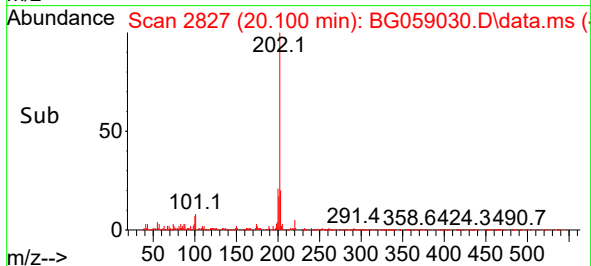
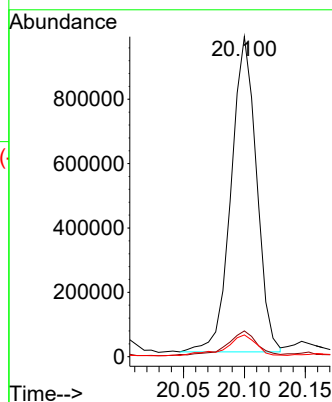
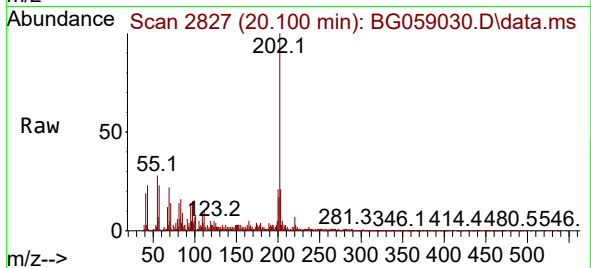
100 6.8 6.3 9.5

Manual Integrations

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Reviewed By :Yogesh Patel 09/13/2023

Supervised By :mohammad ahmed 09/14/2023



#85

Benzo(a)anthracene

Concen: 34.464 ng/ul

RT: 22.009 min Scan# 3152

Delta R.T. 0.020 min

Lab File: BG059030.D

Acq: 13 Sep 2023 4:56

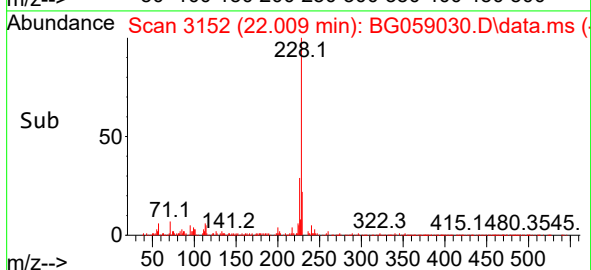
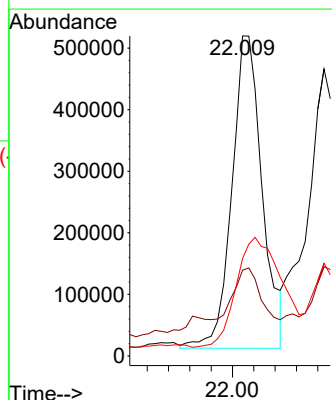
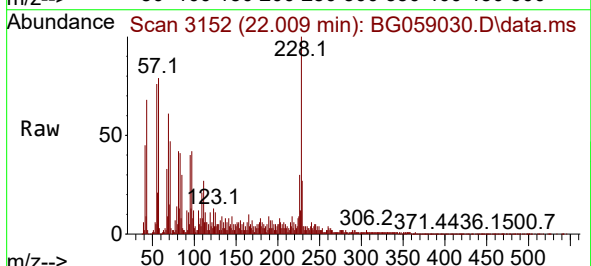
Tgt Ion:228 Resp: 1001751

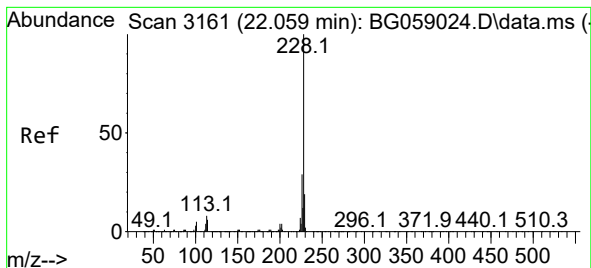
Ion Ratio Lower Upper

228 100

229 26.8 16.0 24.0#

226 30.5 20.8 31.2





#87

Chrysene

Concen: 33.418 ng/ul

RT: 22.086 min Scan# 3165

Delta R.T. 0.026 min

Lab File: BG059030.D

Acq: 13 Sep 2023 4:56

Instrument :

BNA_G

ClientSampleId :

EZYK4

Tgt Ion:228 Resp: 90300

Ion Ratio Lower Upper

228 100

226 32.3 23.2 34.8

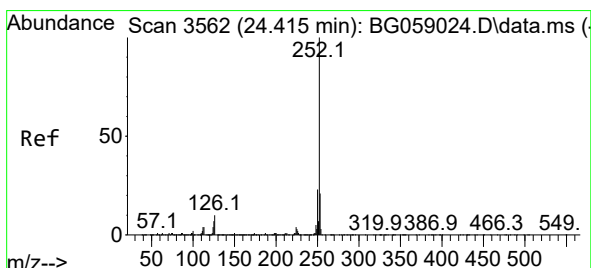
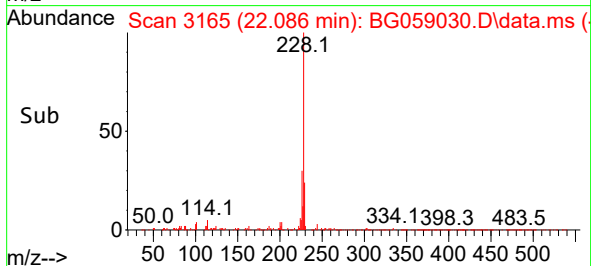
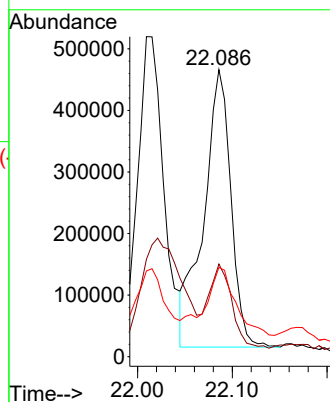
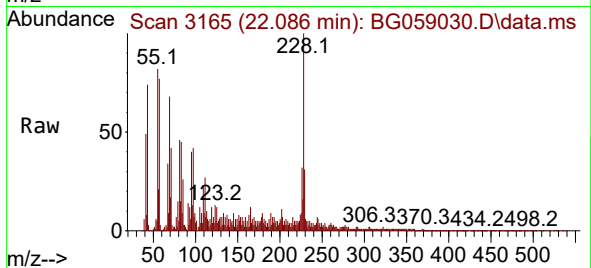
229 31.1 15.3 22.9

Manual Integrations

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Reviewed By :Yogesh Patel 09/13/2023

Supervised By :mohammad ahmed 09/14/2023



#90

Benzo(b)fluoranthene

Concen: 32.489 ng/ul

RT: 24.471 min Scan# 3571

Delta R.T. 0.055 min

Lab File: BG059030.D

Acq: 13 Sep 2023 4:56

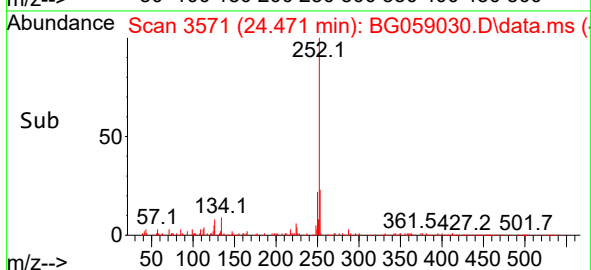
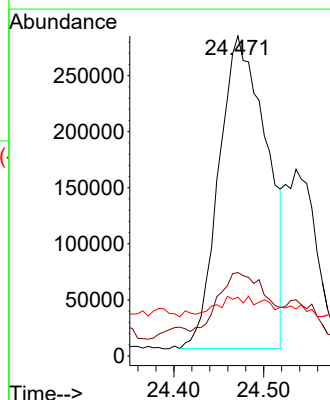
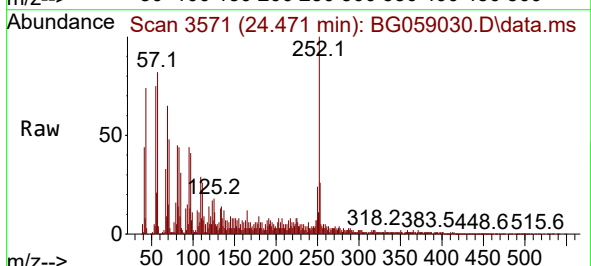
Tgt Ion:252 Resp: 1030507

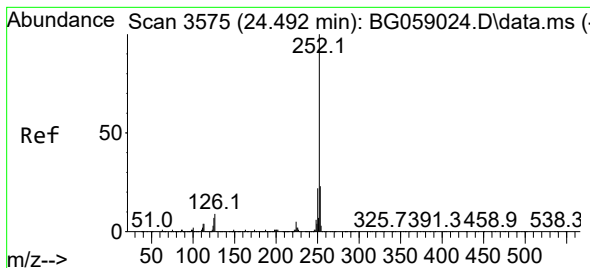
Ion Ratio Lower Upper

252 100

253 26.0 17.8 26.8

125 18.3 6.2 9.2





#91

Benzo(k)fluoranthene

Concen: 12.285 ng/ul m

RT: 24.536 min Scan# 3

Delta R.T. 0.038 min

Lab File: BG059030.D

Acq: 13 Sep 2023 4:56

Instrument :

BNA_G

ClientSampleId :

EZYK4

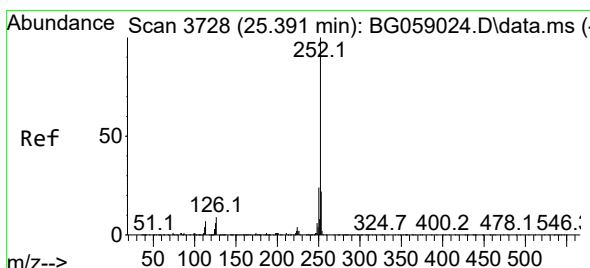
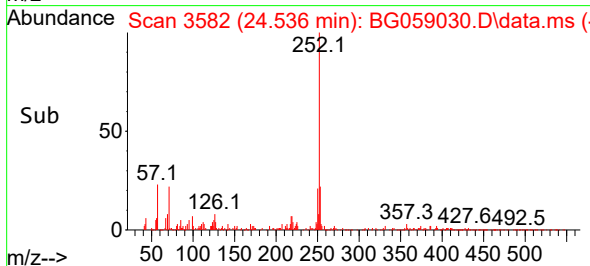
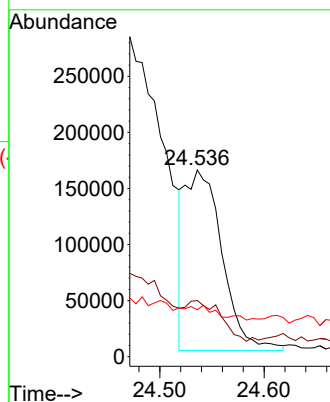
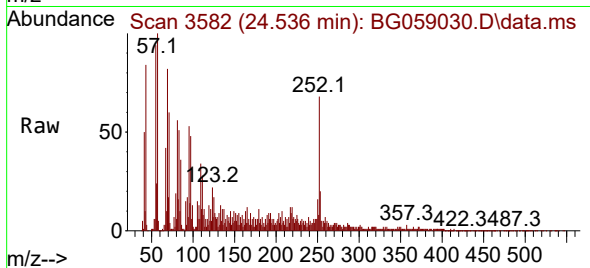
Tgt Ion:252 Resp: 398223
 Ion Ratio Lower Upper
 252 100
 253 30.1 19.1 28.7#
 125 25.1 5.0 7.4#

Manual Integrations

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Reviewed By :Yogesh Patel 09/13/2023

Supervised By :mohammad ahmed 09/14/2023



#93

Benzo(a)pyrene

Concen: 19.954 ng/ul

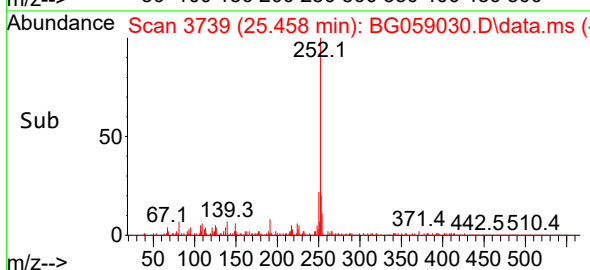
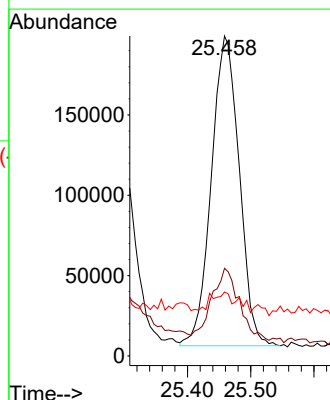
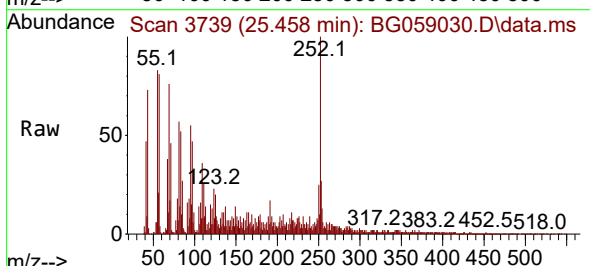
RT: 25.458 min Scan# 3739

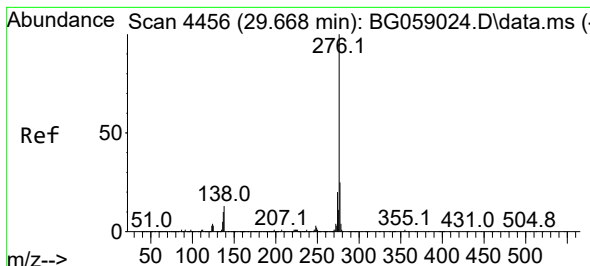
Delta R.T. 0.055 min

Lab File: BG059030.D

Acq: 13 Sep 2023 4:56

Tgt Ion:252 Resp: 590507
 Ion Ratio Lower Upper
 252 100
 253 27.4 17.1 25.7#
 125 20.0 5.3 7.9#





#94

Indeno(1,2,3-cd)pyrene

Concen: 11.453 ng/ul m

RT: 29.783 min Scan# 4456

Delta R.T. 0.102 min

Lab File: BG059030.D

Acq: 13 Sep 2023 4:56

Instrument :

BNA_G

ClientSampleId :

EZYK4

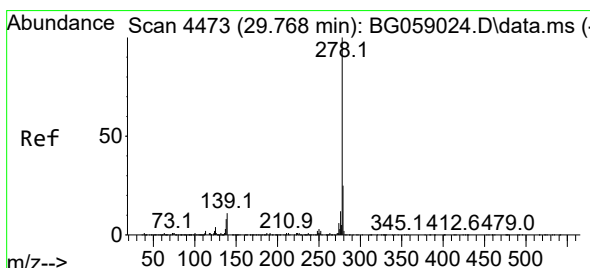
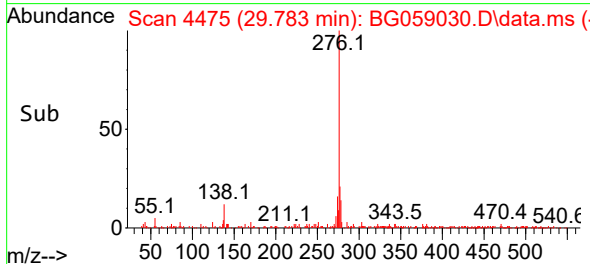
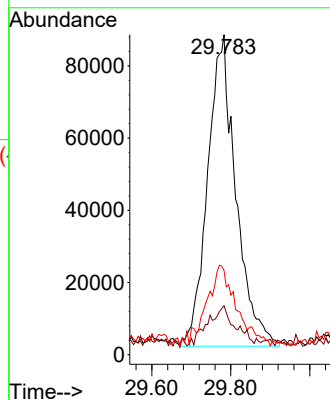
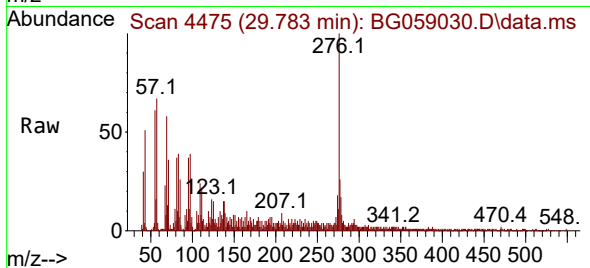
Tgt Ion:	276	Resp:	428274
Ion Ratio	Lower	Upper	
276	100		
138	15.3	11.8	17.8
277	26.3	20.7	31.1

Manual Integrations

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Reviewed By :Yogesh Patel 09/13/2023

Supervised By :mohammad ahmed 09/14/2023



#95

Dibenzo(a,h)anthracene

Concen: 4.987 ng/ul m

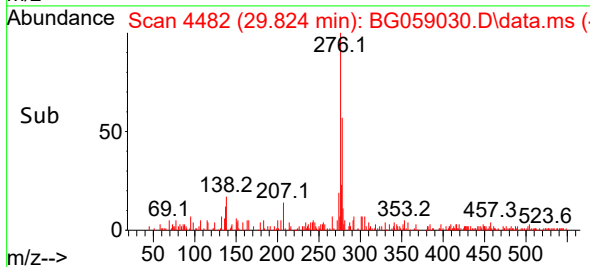
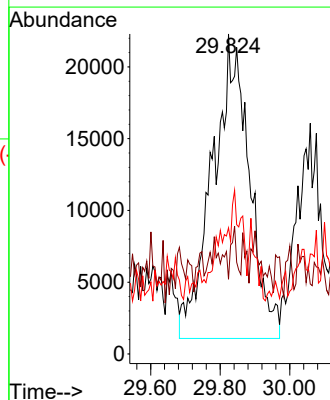
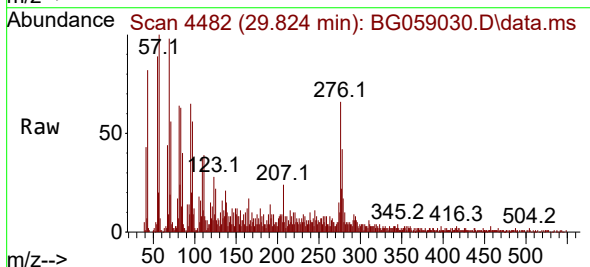
RT: 29.824 min Scan# 4482

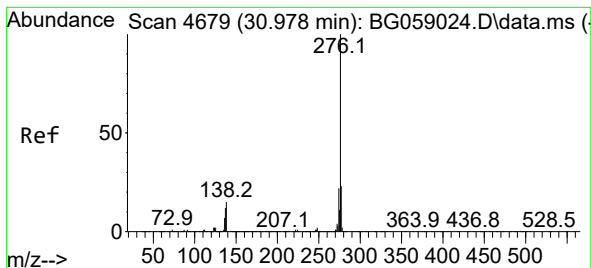
Delta R.T. 0.049 min

Lab File: BG059030.D

Acq: 13 Sep 2023 4:56

Tgt Ion:	278	Resp:	154509
Ion Ratio	Lower	Upper	
278	100		
139	23.3	9.8	14.8#
279	39.4	18.5	27.7#





#96

Benzo(g,h,i)perylene

Concen: 11.877 ng/ul m

RT: 31.093 min Scan# 4

Delta R.T. 0.102 min

Lab File: BG059030.D

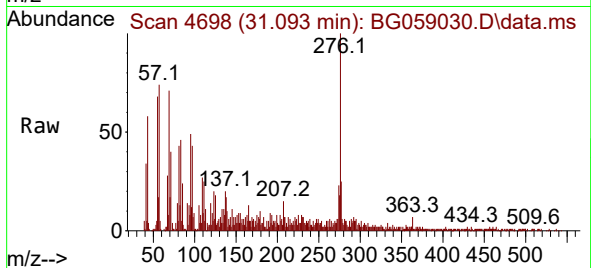
Acq: 13 Sep 2023 4:56

Instrument :

BNA_G

ClientSampleId :

EZYK4



Tgt Ion:276 Resp: 351529

Ion Ratio Lower Upper

276 100

138 16.7 11.4 17.2

277 25.1 17.4 26.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/13/2023

Supervised By :mohammad ahmed 09/14/2023

