

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG070524\
 Data File : BG061919.D
 Acq On : 6 Jul 2024 7:20
 Operator : MA/JU
 Sample : P2982-08
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 A4CF4

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 07/09/2024
 Supervised By :mohammad ahmed 07/09/2024

Quant Time: Jul 08 01:07:10 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\SFAM-EPA-BG070224.MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed Jul 03 02:38:46 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.094	152	45221m	20.000	ng/ul	0.00
20) Naphthalene-d8	10.908	136	225658	20.000	ng/ul	0.00
38) Acenaphthene-d10	14.715	164	165415	20.000	ng/ul	0.00
64) Phenanthrene-d10	17.459	188	351090	20.000	ng/ul	0.00
79) Chrysene-d12	21.731	240	322081	20.000	ng/ul	# 0.00
88) Perylene-d12	24.968	264	389998	20.000	ng/ul	# 0.00
System Monitoring Compounds						
3) 1,4-Dioxane-d8	3.481	96	3851	3.200	ng/uL	0.00
4) Pyridine-d5	0.000	84	0d	0.000	ng/ul	
7) Phenol-d5	7.248	99	126826	25.627	ng/ul	0.00
9) Bis-(2-Chloroethyl)eth...	7.418	67	77478	24.722	ng/ul	0.00
11) 2-Chlorophenol-d4	7.624	132	90126	26.550	ng/ul	0.00
15) 4-Methylphenol-d8	8.793	113	101468	26.041	ng/ul	0.00
21) Nitrobenzene-d5	9.257	128	51748	30.153	ng/ul	0.00
24) 2-Nitrophenol-d4	9.980	143	60664	30.953	ng/ul	0.00
28) 2,4-Dichlorophenol-d3	10.520	165	111249	29.429	ng/ul	-0.01
31) 4-Chloroaniline-d4	11.037	131	38649m	7.042	ng/ul	0.00
46) Dimethylphthalate-d6	14.116	166	362322	26.643	ng/ul	0.00
49) Acenaphthylene-d8	14.416	160	403943	28.406	ng/ul	0.00
54) 4-Nitrophenol-d4	14.903	143	47657	21.944	ng/ul	-0.01
60) Fluorene-d10	15.708	176	316437	27.640	ng/ul	0.00
65) 4,6-Dinitro-2-methylph...	15.820	200	54769	29.703	ng/ul	0.00
73) Anthracene-d10	17.559	188	478721	29.205	ng/ul	0.00
81) Pyrene-d10	19.839	212	456807	24.113	ng/ul	0.00
92) Benzo(a)pyrene-d12	24.751	264	365926	18.919	ng/ul	0.01
Target Compounds					Qvalue	
16) Acetophenone	8.922	105	8473	1.316	ng/ul#	84
30) Naphthalene	10.961	128	22658	1.828	ng/ul#	91
36) 2-Methylnaphthalene	12.559	142	20641	2.299	ng/ul	96
37) 1-Methylnaphthalene	12.770	142	24088	2.581	ng/ul	88
50) Acenaphthylene	14.445	152	24430m	1.565	ng/ul	
52) Acenaphthene	14.780	153	36650	3.401	ng/ul	94
56) Dibenzofuran	15.109	168	45502	2.987	ng/ul	96
61) Fluorene	15.761	166	120432	9.298	ng/ul	93
72) Phenanthrene	17.506	178	2113692	114.178	ng/ul	98
74) Anthracene	17.594	178	290651	15.192	ng/ul	99
77) Carbazole	17.859	167	23996	1.490	ng/ul#	83
80) Fluoranthene	19.515	202	3177707	141.737	ng/ul	96
82) Pyrene	19.874	202	2822001	121.854	ng/ul	96
85) Benzo(a)anthracene	21.707	228	1761668	75.544	ng/ul	97
86) Bis(2-ethylhexyl)phtha...	21.595	149	14338	1.028	ng/ul#	84
87) Chrysene	21.778	228	1549726	70.988	ng/ul	95
90) Benzo(b)fluoranthene	23.951	252	1819056	74.032	ng/ul	98
91) Benzo(k)fluoranthene	24.010	252	727954m	29.709	ng/ul	
93) Benzo(a)pyrene	24.821	252	865679m	37.206	ng/ul	
94) Indeno(1,2,3-cd)pyrene	28.681	276	700176	23.548	ng/ul#	97
95) Dibenzo(a,h)anthracene	28.734	278	240337m	9.787	ng/ul	
96) Benzo(g,h,i)perylene	29.821	276	94080m	3.977	ng/ul	

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

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

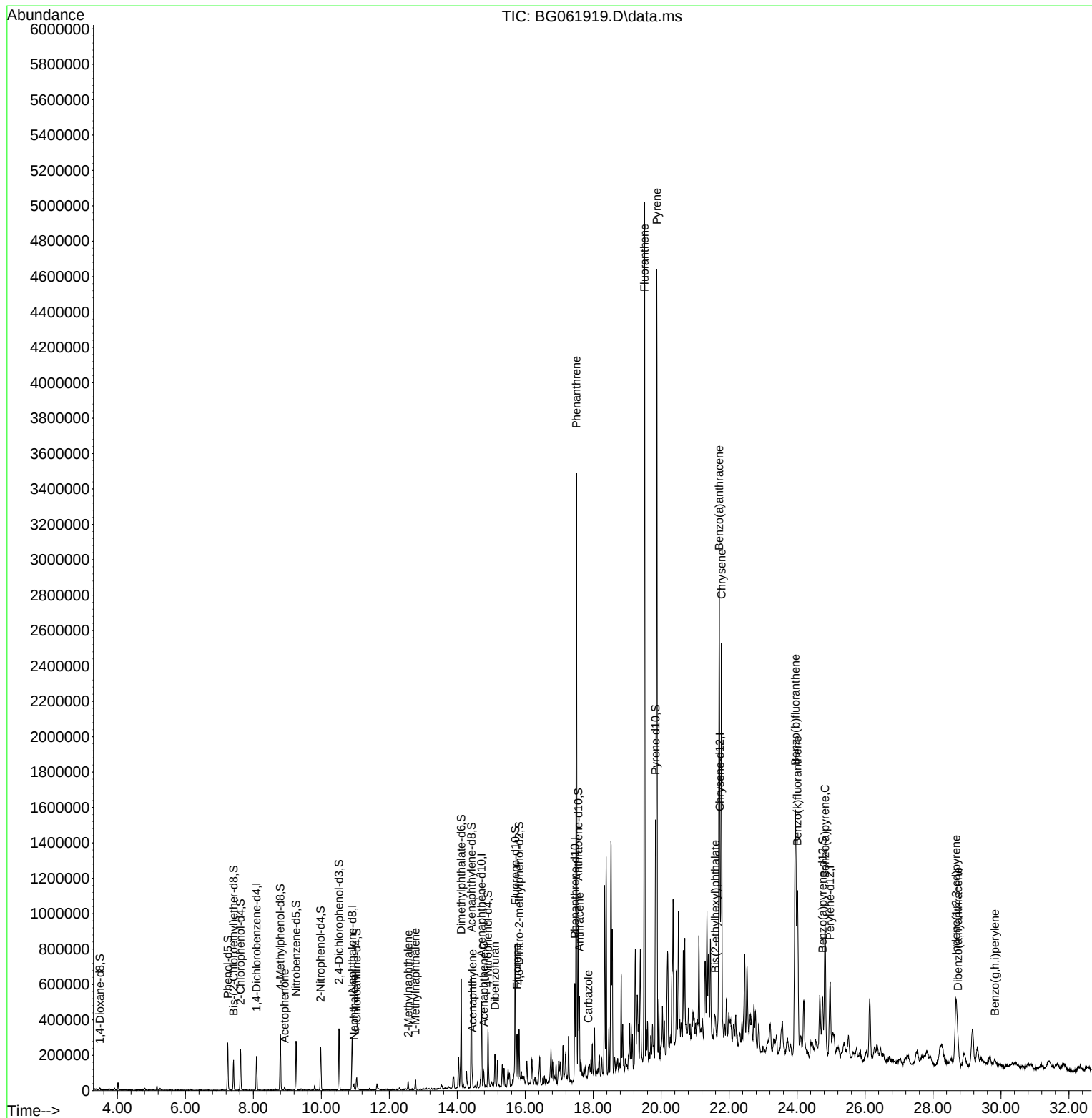
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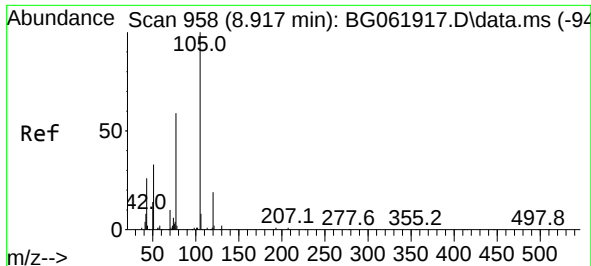
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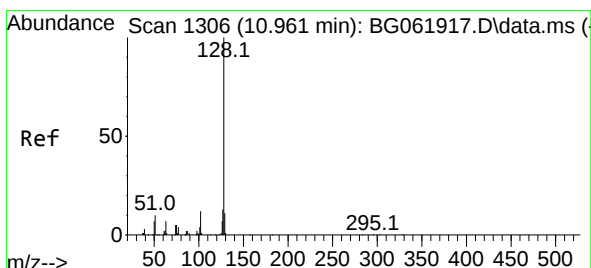
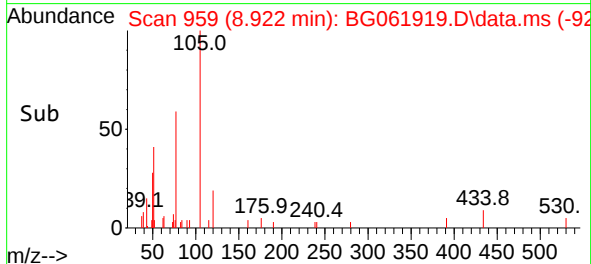
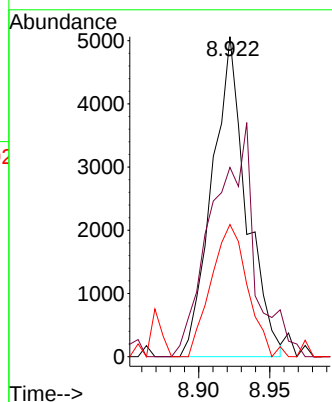
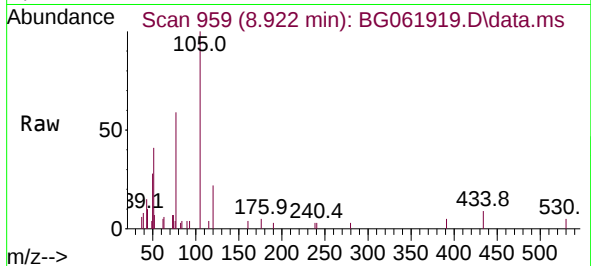
#16
Acetophenone
Concen: 1.316 ng/ul
RT: 8.922 min Scan# 910
Delta R.T. -0.001 min
Lab File: BG061919.D
Acq: 6 Jul 2024 7:20

Instrument :
BNA_G
ClientSampleId :
A4CF4

Tgt Ion:105 Resp: 847
Ion Ratio Lower Upper
105 100
77 59.2 64.1 96.1#
51 41.3 33.8 50.8

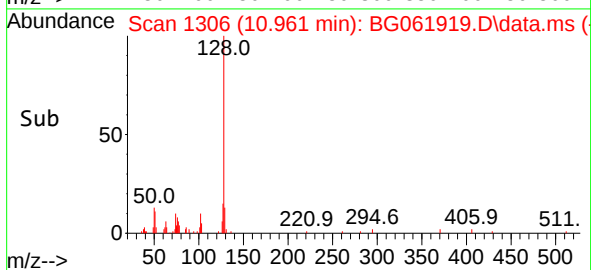
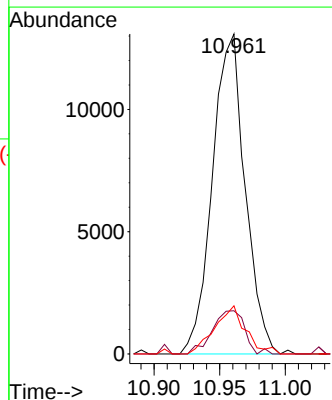
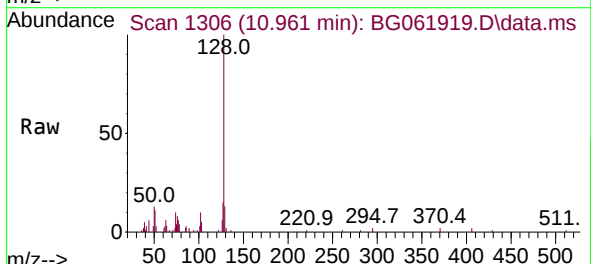
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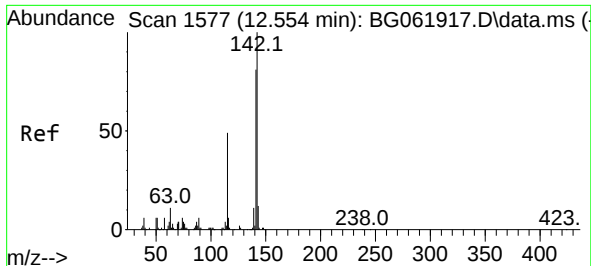
Reviewed By :Yogesh Patel 07/09/2024
Supervised By :mohammad ahmed 07/09/2024



#30
Naphthalene
Concen: 1.828 ng/ul
RT: 10.961 min Scan# 1306
Delta R.T. -0.000 min
Lab File: BG061919.D
Acq: 6 Jul 2024 7:20

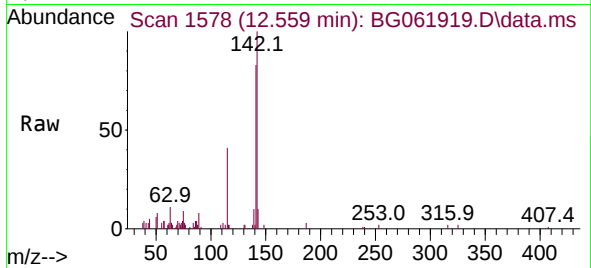
Tgt Ion:128 Resp: 22658
Ion Ratio Lower Upper
128 100
129 13.5 7.7 11.5#
127 15.0 9.6 14.4#





#36
2-Methylnaphthalene
Concen: 2.299 ng/ul
RT: 12.559 min Scan# 1577
Delta R.T. -0.000 min
Lab File: BG061919.D
Acq: 6 Jul 2024 7:20

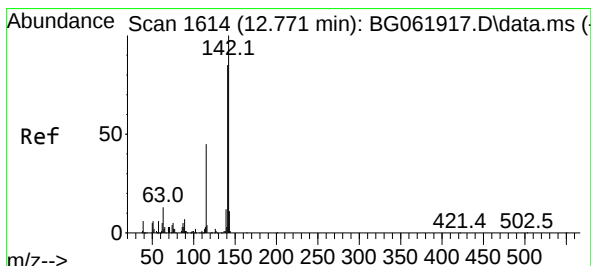
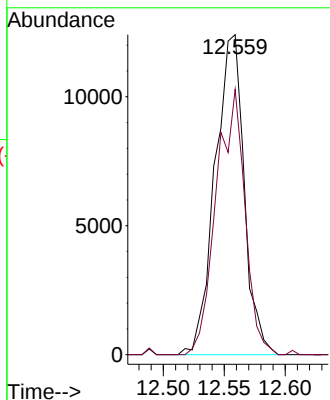
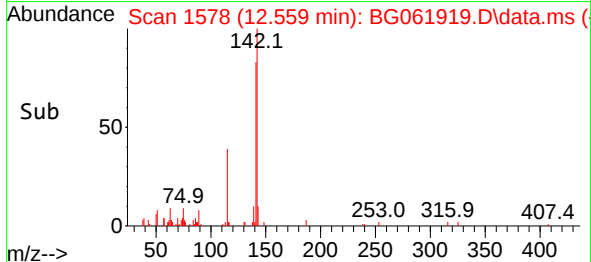
Instrument :
BNA_G
ClientSampleId :
A4CF4



Tgt Ion:142 Resp: 2064
Ion Ratio Lower Upper
142 100
141 82.9 69.4 104.2

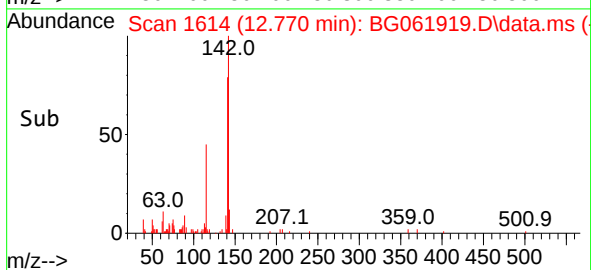
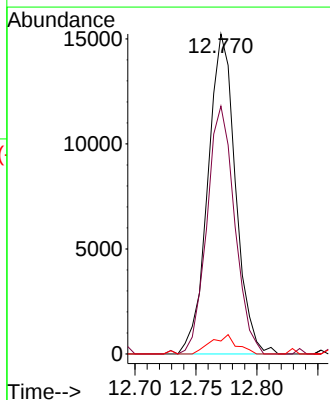
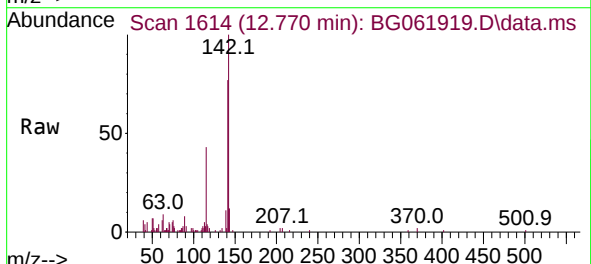
Manual Integrations
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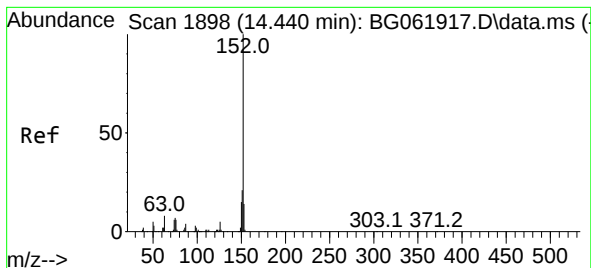
Reviewed By :Yogesh Patel 07/09/2024
Supervised By :mohammad ahmed 07/09/2024



#37
1-Methylnaphthalene
Concen: 2.581 ng/ul
RT: 12.770 min Scan# 1614
Delta R.T. -0.006 min
Lab File: BG061919.D
Acq: 6 Jul 2024 7:20

Tgt Ion:142 Resp: 24088
Ion Ratio Lower Upper
142 100
141 77.4 71.4 107.2
116 4.1 3.8 5.8





#50

Acenaphthylene

Concen: 1.565 ng/ul m

RT: 14.445 min Scan# 1898

Delta R.T. -0.000 min

Lab File: BG061919.D

Acq: 6 Jul 2024 7:20

Instrument :

BNA_G

ClientSampleId :

A4CF4

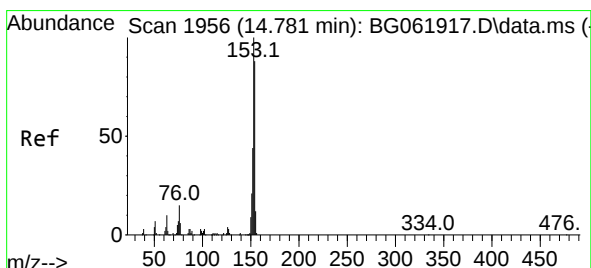
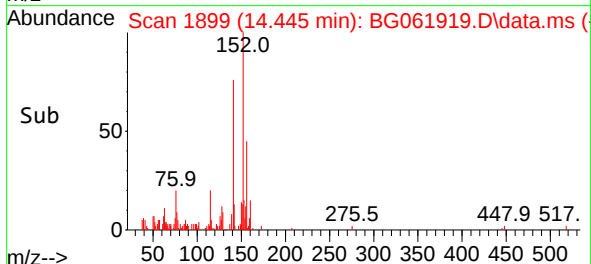
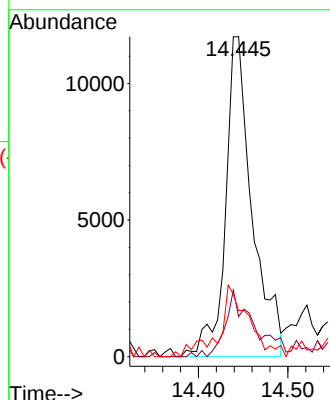
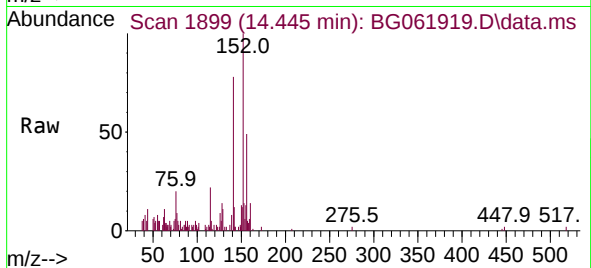
Tgt Ion:	152	Resp:	24430
Ion Ratio	Lower	Upper	
152	100		
151	12.5	16.5	24.7
153	14.4	11.4	17.0

Manual Integrations

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Reviewed By :Yogesh Patel 07/09/2024

Supervised By :mohammad ahmed 07/09/2024



#52

Acenaphthene

Concen: 3.401 ng/ul

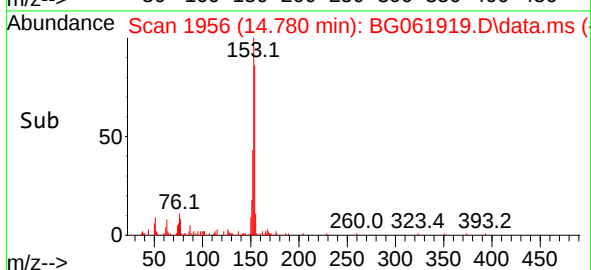
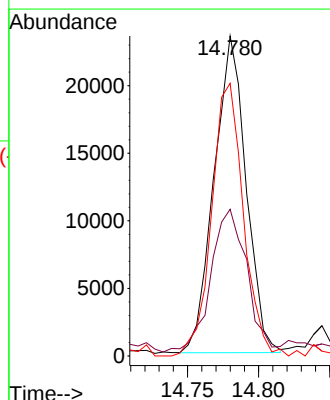
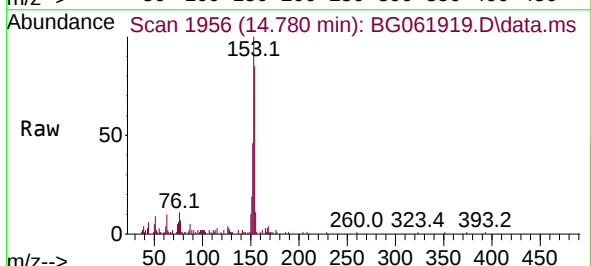
RT: 14.780 min Scan# 1956

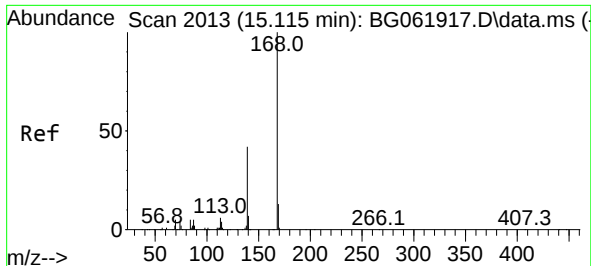
Delta R.T. -0.006 min

Lab File: BG061919.D

Acq: 6 Jul 2024 7:20

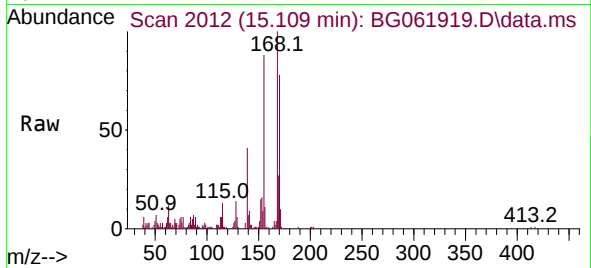
Tgt Ion:	153	Resp:	36650
Ion Ratio	Lower	Upper	
153	100		
152	45.8	37.2	55.8
154	85.2	75.0	112.6





#56
Dibenzenofuran
Concen: 2.987 ng/ul
RT: 15.109 min Scan# 2013
Delta R.T. -0.006 min
Lab File: BG061919.D
Acq: 6 Jul 2024 7:20

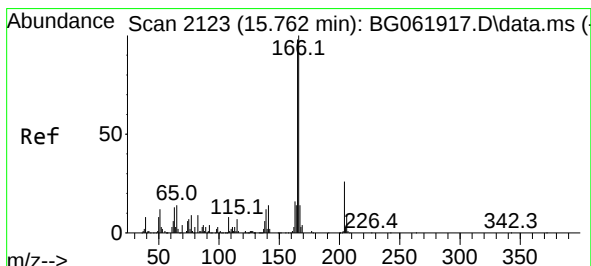
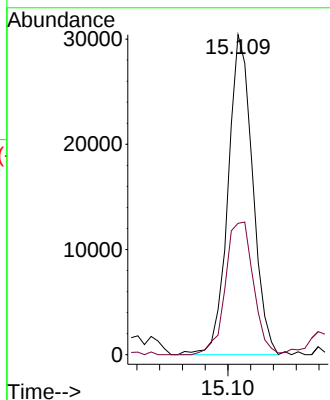
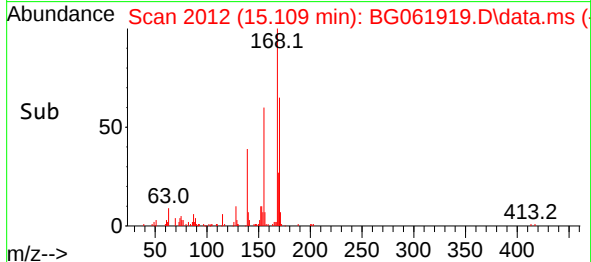
Instrument :
BNA_G
ClientSampleId :
A4CF4



Tgt Ion:168 Resp: 45502
Ion Ratio Lower Upper
168 100
139 41.1 31.0 46.4

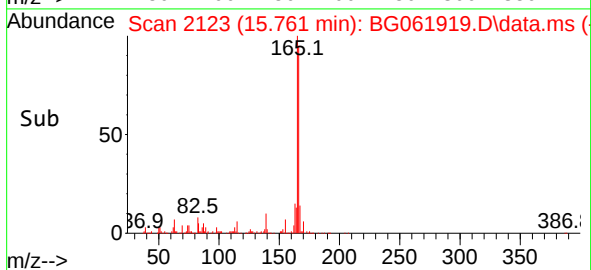
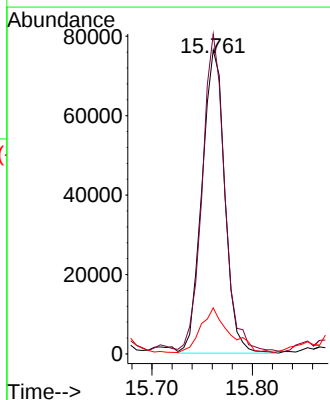
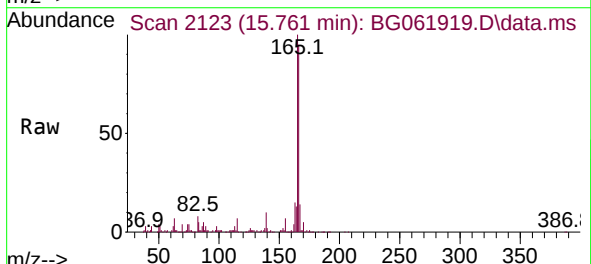
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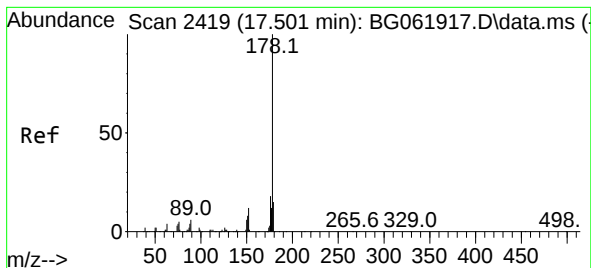
Reviewed By :Yogesh Patel 07/09/2024
Supervised By :mohammad ahmed 07/09/2024



#61
Fluorene
Concen: 9.298 ng/ul
RT: 15.761 min Scan# 2123
Delta R.T. -0.006 min
Lab File: BG061919.D
Acq: 6 Jul 2024 7:20

Tgt Ion:166 Resp: 120432
Ion Ratio Lower Upper
166 100
165 105.2 78.4 117.6
167 15.2 10.4 15.6





#72

Phenanthrene

Concen: 114.178 ng/ul

RT: 17.506 min Scan# 2419

Delta R.T. -0.000 min

Lab File: BG061919.D

Acq: 6 Jul 2024 7:20

Instrument :

BNA_G

ClientSampleId :

A4CF4

Tgt Ion:178 Resp: 211369

Ion Ratio Lower Upper

178 100

179 16.5 11.9 17.9

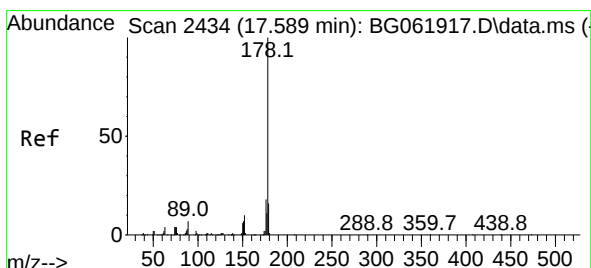
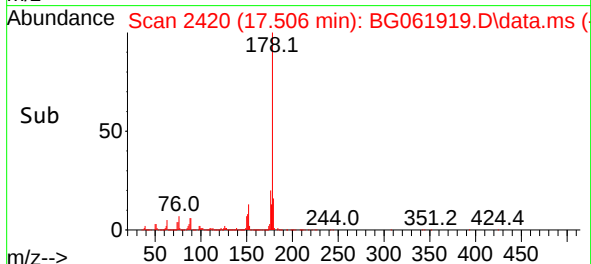
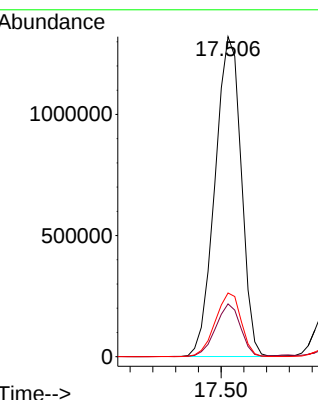
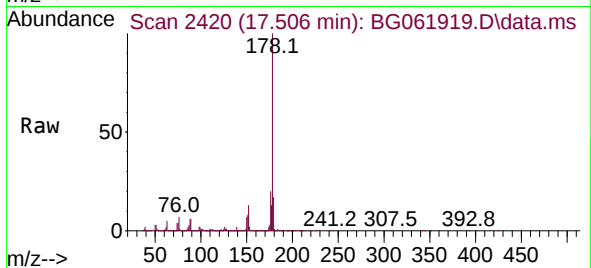
176 19.9 15.5 23.3

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#74

Anthracene

Concen: 15.192 ng/ul

RT: 17.594 min Scan# 2435

Delta R.T. -0.000 min

Lab File: BG061919.D

Acq: 6 Jul 2024 7:20

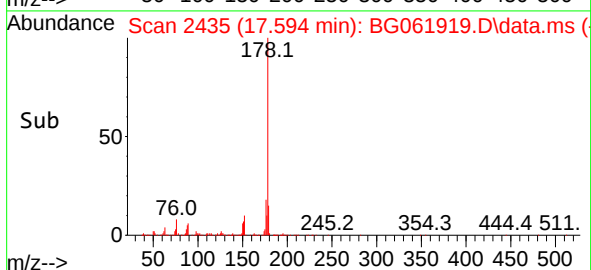
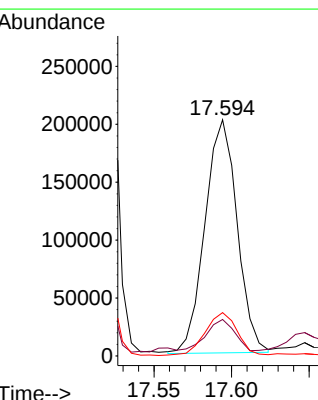
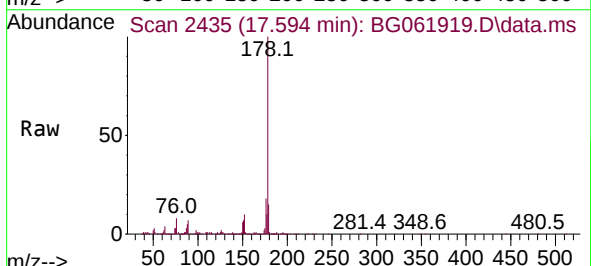
Tgt Ion:178 Resp: 290651

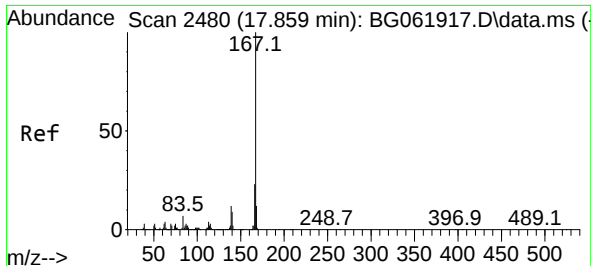
Ion Ratio Lower Upper

178 100

179 15.4 11.9 17.9

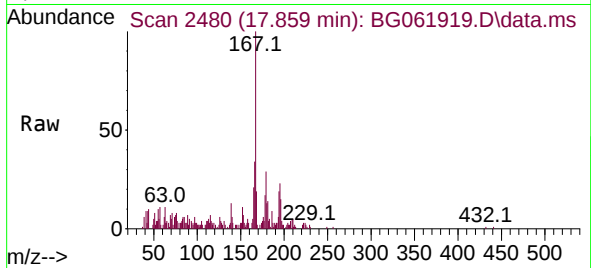
176 18.4 14.7 22.1





#77
 Carbazole
 Concen: 1.490 ng/ul
 RT: 17.859 min Scan# 2480
 Delta R.T. -0.006 min
 Lab File: BG061919.D
 Acq: 6 Jul 2024 7:20

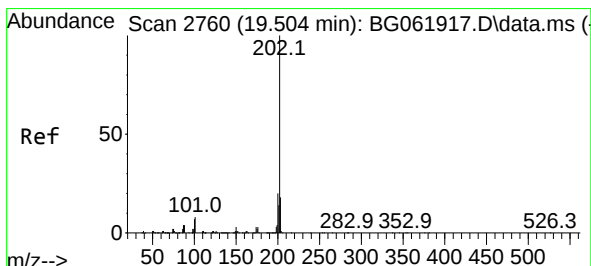
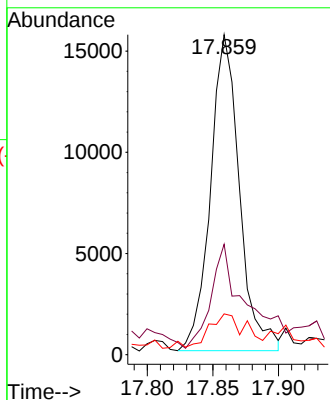
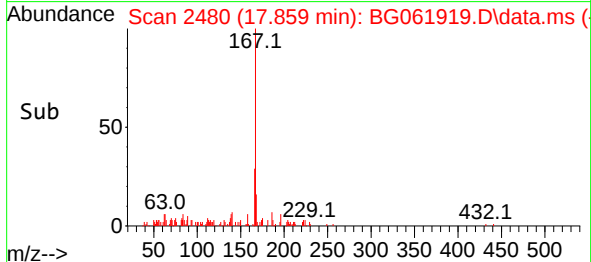
Instrument :
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 ClientSampleId :
 A4CF4



Tgt Ion:167 Resp: 23990
 Ion Ratio Lower Upper
 167 100
 166 34.5 18.2 27.2
 139 12.8 9.6 14.4

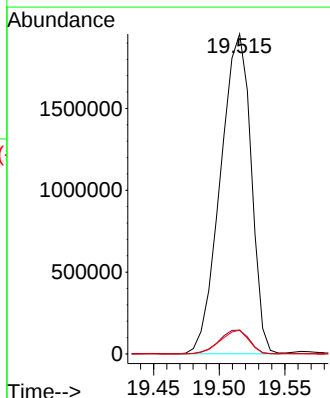
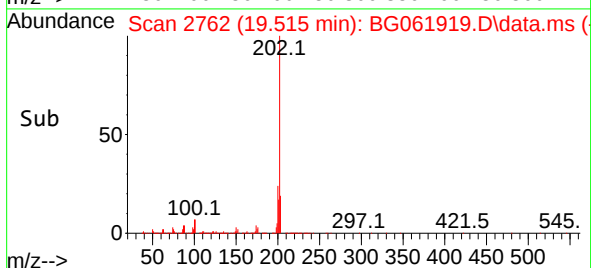
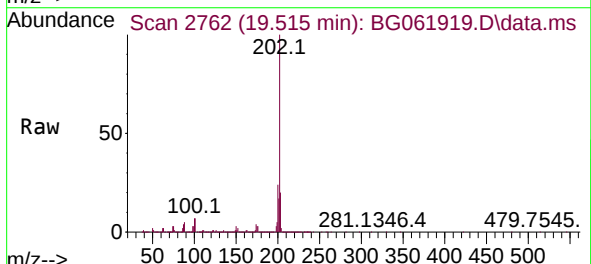
Manual Integrations
 APPROVED

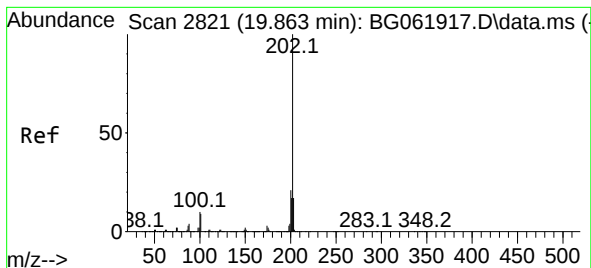
Reviewed By :Yogesh Patel 07/09/2024
 Supervised By :mohammad ahmed 07/09/2024



#80
 Fluoranthene
 Concen: 141.737 ng/ul
 RT: 19.515 min Scan# 2762
 Delta R.T. 0.011 min
 Lab File: BG061919.D
 Acq: 6 Jul 2024 7:20

Tgt Ion:202 Resp: 3177707
 Ion Ratio Lower Upper
 202 100
 101 7.5 7.4 11.2
 100 7.4 6.6 10.0





#82

Pyrene

Concen: 121.854 ng/u1

RT: 19.874 min Scan# 21

Delta R.T. 0.005 min

Lab File: BG061919.D

Acq: 6 Jul 2024 7:20

Instrument :

BNA_G

ClientSampleId :

A4CF4

Tgt Ion:202 Resp: 282200

Ion Ratio Lower Upper

202 100

101 9.2 8.8 13.2

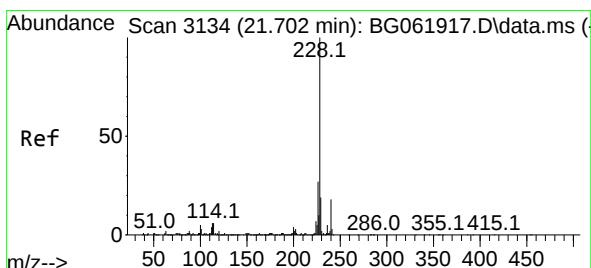
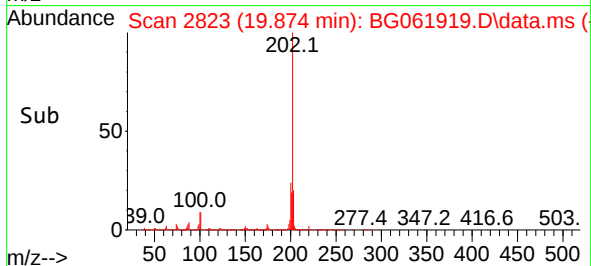
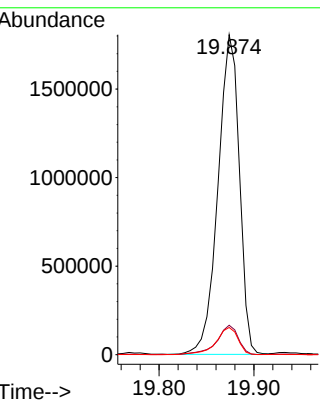
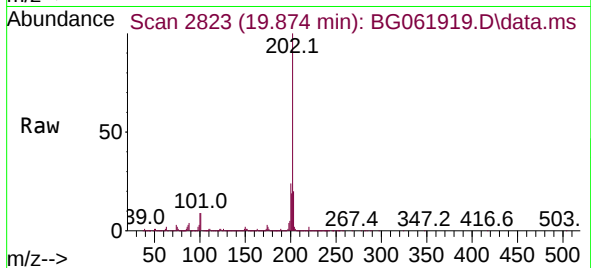
100 8.5 7.6 11.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/09/2024

Supervised By :mohammad ahmed 07/09/2024



#85

Benzo(a)anthracene

Concen: 75.544 ng/u1

RT: 21.707 min Scan# 3135

Delta R.T. 0.005 min

Lab File: BG061919.D

Acq: 6 Jul 2024 7:20

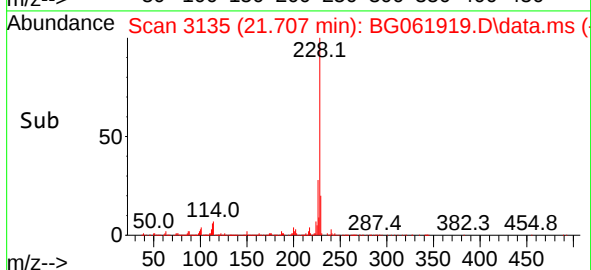
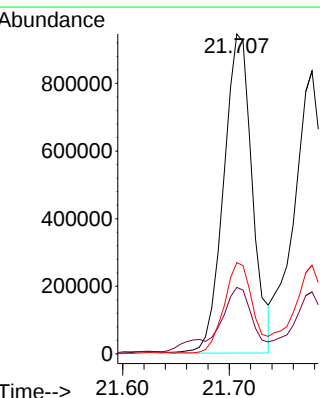
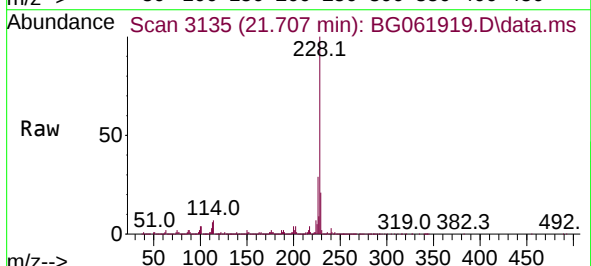
Tgt Ion:228 Resp: 1761668

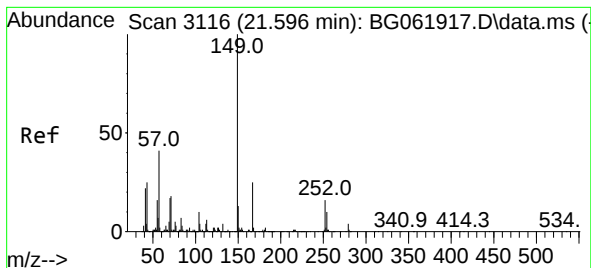
Ion Ratio Lower Upper

228 100

229 20.8 15.7 23.5

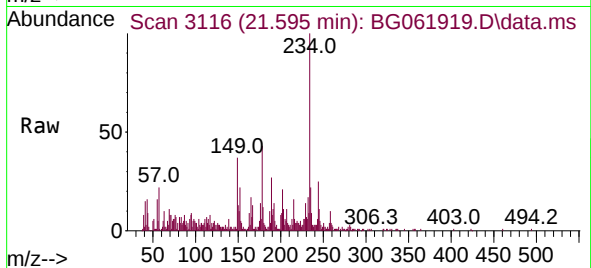
226 28.5 21.7 32.5





#86
 Bis(2-ethylhexyl)phthalate
 Concen: 1.028 ng/ul
 RT: 21.595 min Scan# 3116
 Delta R.T. -0.006 min
 Lab File: BG061919.D
 Acq: 6 Jul 2024 7:20

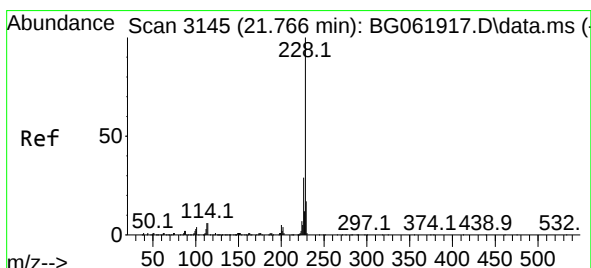
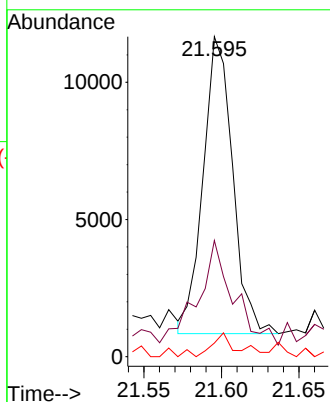
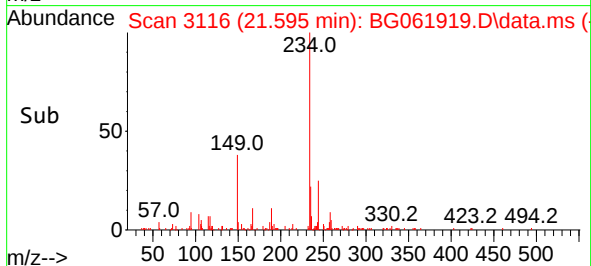
Instrument :
 BNA_G
 ClientSampleId :
 A4CF4



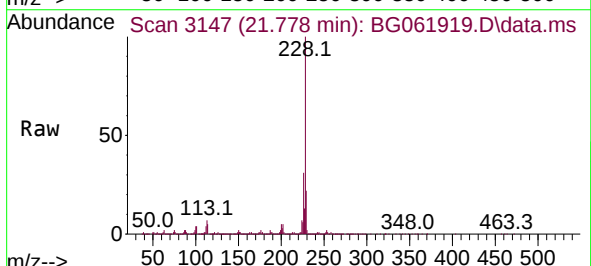
Tgt Ion:149 Resp: 14338
 Ion Ratio Lower Upper
 149 100
 167 36.3 21.7 32.5
 279 4.3 2.8 4.2

Manual Integrations
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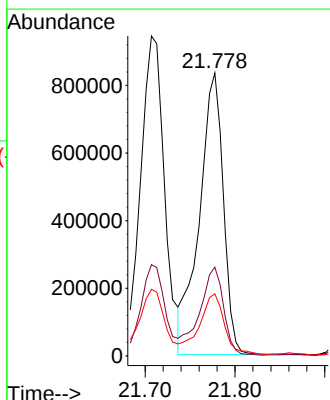
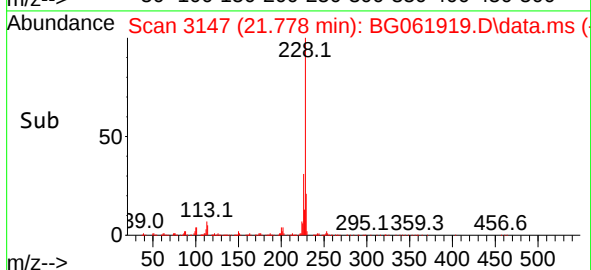
Reviewed By :Yogesh Patel 07/09/2024
 Supervised By :mohammad ahmed 07/09/2024

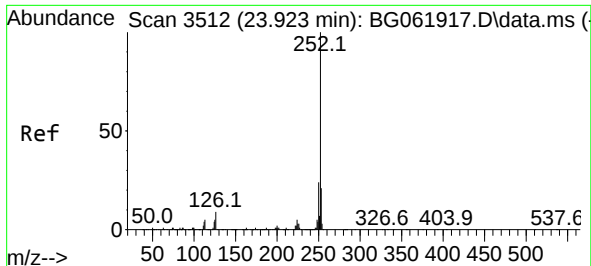


#87
 Chrysene
 Concen: 70.988 ng/ul
 RT: 21.778 min Scan# 3147
 Delta R.T. 0.005 min
 Lab File: BG061919.D
 Acq: 6 Jul 2024 7:20



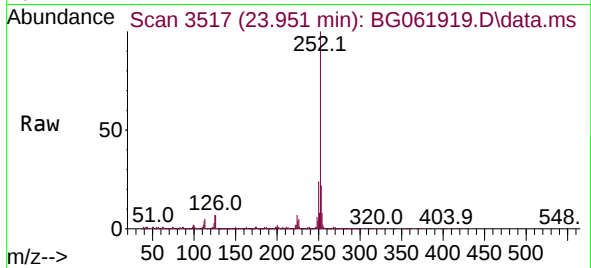
Tgt Ion:228 Resp: 1549726
 Ion Ratio Lower Upper
 228 100
 226 31.4 23.3 34.9
 229 22.0 15.5 23.3





#90
Benzo(b)fluoranthene
Concen: 74.032 ng/ul
RT: 23.951 min Scan# 3517
Delta R.T. 0.017 min
Lab File: BG061919.D
Acq: 6 Jul 2024 7:20

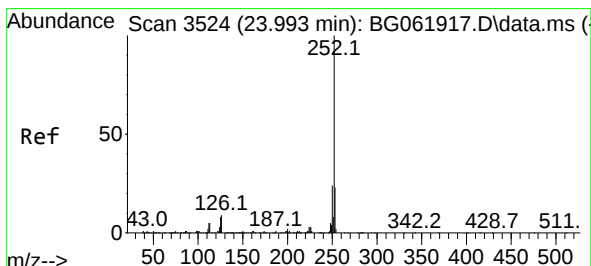
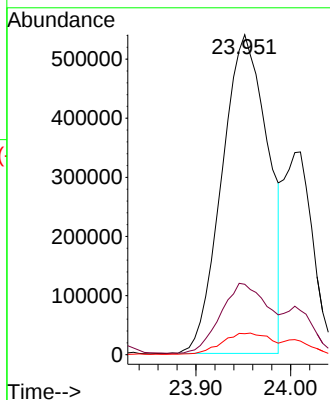
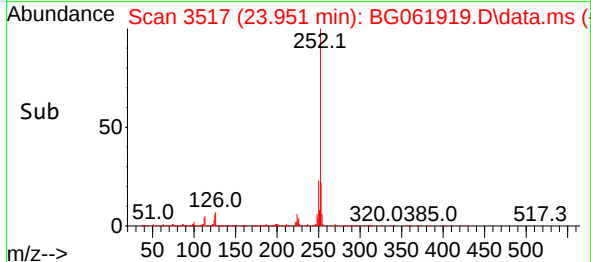
Instrument :
BNA_G
ClientSampleId :
A4CF4



Tgt Ion:252 Resp: 181905
Ion Ratio Lower Upper
252 100
253 22.0 17.2 25.8
125 6.6 6.1 9.1

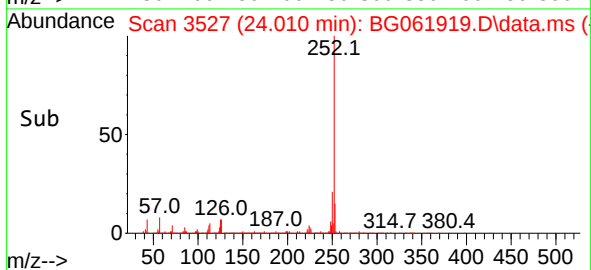
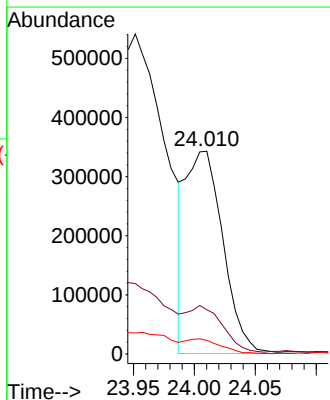
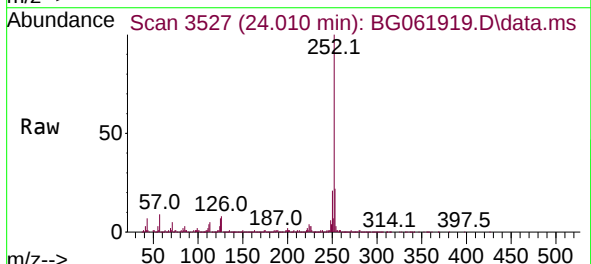
Manual Integrations
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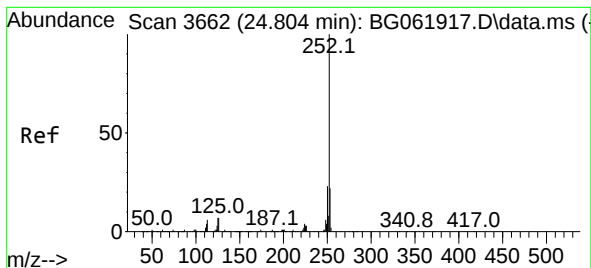
Reviewed By :Yogesh Patel 07/09/2024
Supervised By :mohammad ahmed 07/09/2024



#91
Benzo(k)fluoranthene
Concen: 29.709 ng/ul m
RT: 24.010 min Scan# 3527
Delta R.T. 0.005 min
Lab File: BG061919.D
Acq: 6 Jul 2024 7:20

Tgt Ion:252 Resp: 727954
Ion Ratio Lower Upper
252 100
253 21.8 19.3 28.9
125 6.7 6.3 9.5





#93

Benzo(a)pyrene

Concen: 37.206 ng/ul m

RT: 24.821 min Scan# 3

Delta R.T. 0.005 min

Lab File: BG061919.D

Acq: 6 Jul 2024 7:20

Instrument :

BNA_G

ClientSampleId :

A4CF4

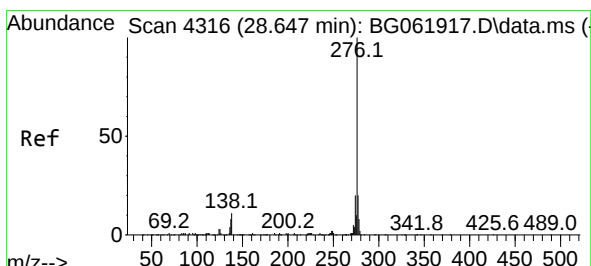
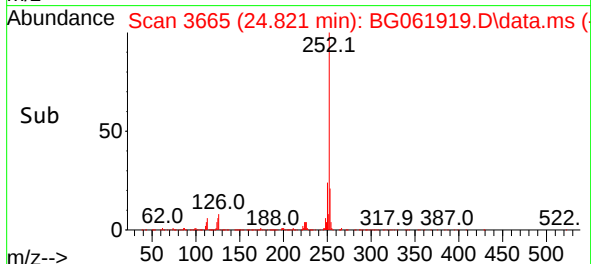
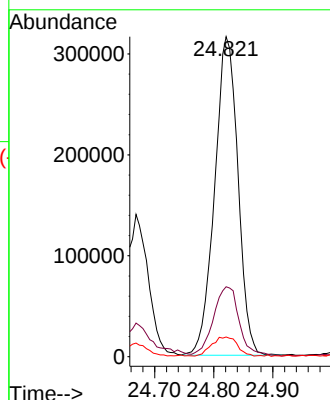
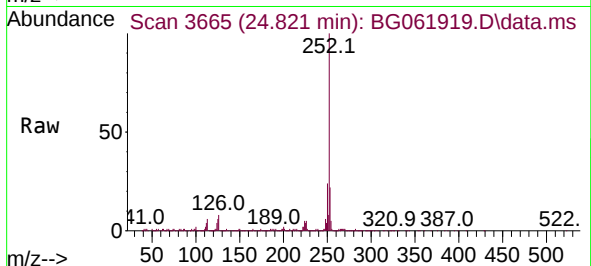
Tgt Ion:	252	Resp:	865679
Ion Ratio	Lower	Upper	
252	100		
253	21.8	16.5	24.7
125	6.1	7.4	11.2

Manual Integrations

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Reviewed By :Yogesh Patel 07/09/2024

Supervised By :mohammad ahmed 07/09/2024



#94

Indeno(1,2,3-cd)pyrene

Concen: 23.548 ng/ul

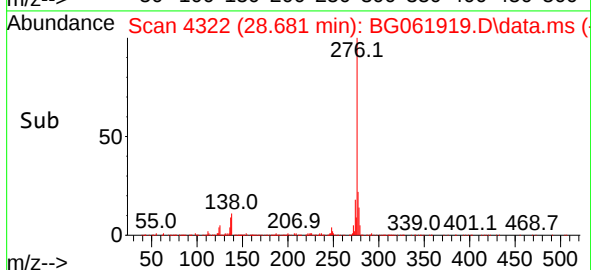
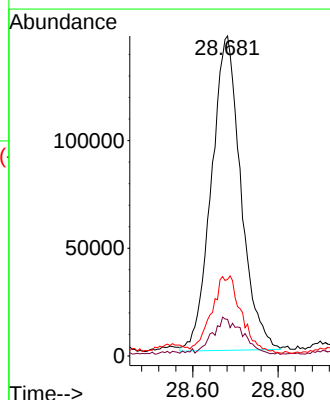
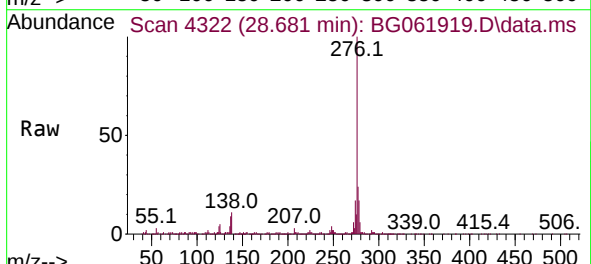
RT: 28.681 min Scan# 4322

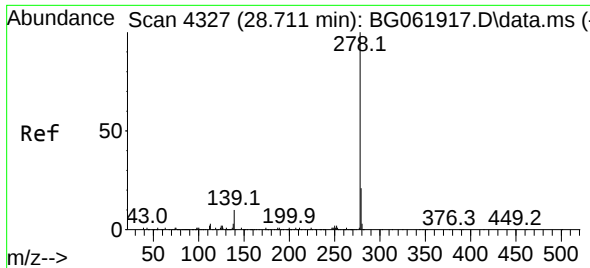
Delta R.T. 0.017 min

Lab File: BG061919.D

Acq: 6 Jul 2024 7:20

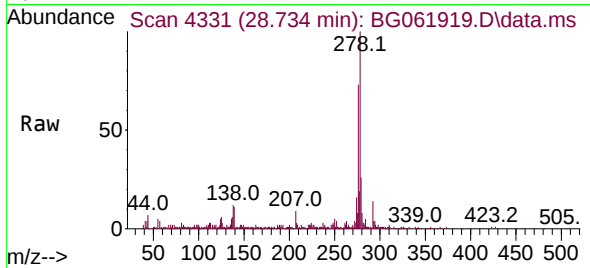
Tgt Ion:	276	Resp:	700176
Ion Ratio	Lower	Upper	
276	100		
138	11.4	11.9	17.9
277	23.9	19.3	28.9





#95
Dibenzo(a,h)anthracene
Concen: 9.787 ng/ul m
RT: 28.734 min Scan# 4331
Delta R.T. -0.000 min
Lab File: BG061919.D
Acq: 6 Jul 2024 7:20

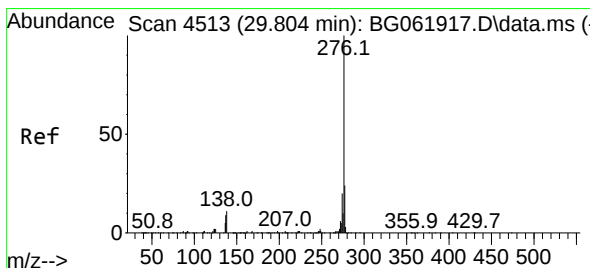
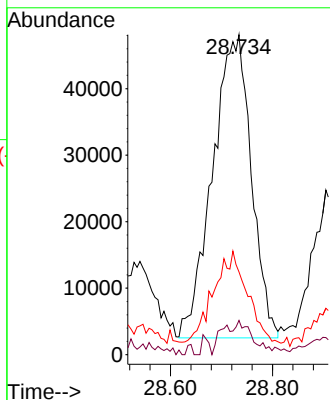
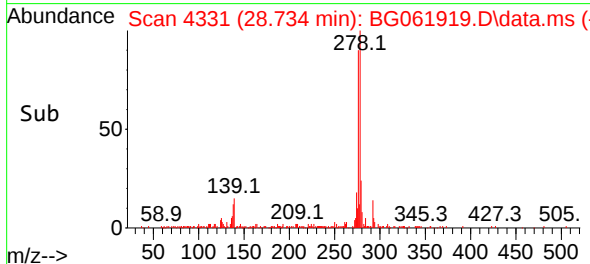
Instrument :
BNA_G
ClientSampleId :
A4CF4



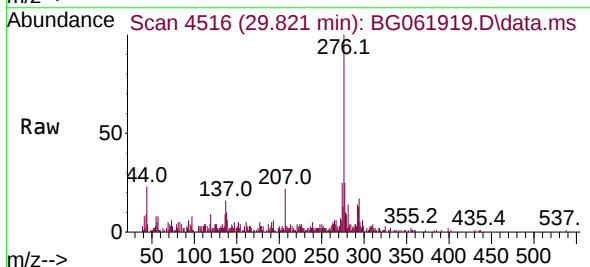
Tgt Ion:278 Resp: 24033
Ion Ratio Lower Upper
278 100
139 10.7 7.6 11.4
279 25.9 18.8 28.2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/09/2024
Supervised By :mohammad ahmed 07/09/2024



#96
Benzo(g,h,i)perylene
Concen: 3.977 ng/ul m
RT: 29.821 min Scan# 4516
Delta R.T. -0.006 min
Lab File: BG061919.D
Acq: 6 Jul 2024 7:20



Tgt Ion:276 Resp: 94080
Ion Ratio Lower Upper
276 100
138 9.6 11.1 16.7#
277 24.6 18.8 28.2

