

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG120523\
 Data File : BG059961.D
 Acq On : 5 Dec 2023 22:51
 Operator : MA/JU
 Sample : 05595-01 5X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 OR-03-113023

Quant Time: Dec 05 23:26:50 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG120423.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Dec 05 02:26:15 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/06/2023
 Supervised By :mohammad ahmed 12/06/2023

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.964	152	129144	20.000	ng	0.00
21) Naphthalene-d8	10.766	136	449805	20.000	ng	# 0.00
39) Acenaphthene-d10	14.597	164	418646	20.000	ng	0.00
64) Phenanthrene-d10	17.347	188	1247515	20.000	ng	0.00
76) Chrysene-d12	21.624	240	1731645	20.000	ng	0.00
86) Perylene-d12	24.826	264	2069199	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.525	112	92273	14.356	ng	0.00
7) Phenol-d6	7.112	99	123135	12.155	ng	0.00
23) Nitrobenzene-d5	9.115	82	90751	7.212	ng	0.00
42) 2,4,6-Tribromophenol	16.078	330	142818	10.603	ng	0.00
45) 2-Fluorobiphenyl	13.222	172	292994	7.633	ng	0.00
79) Terphenyl-d14	19.967	244	810231	8.066	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.813	128	108482	4.692	ng	96
37) 2-Methylnaphthalene	12.423	142	99271	5.058	ng	89
38) 1-Methylnaphthalene	12.640	142	85288	4.450	ng	# 96
49) Acenaphthylene	14.321	152	85617	2.337	ng	# 94
52) Acenaphthene	14.656	154	116715	4.414	ng	91
55) Dibenzofuran	14.991	168	133600	2.996	ng	# 91
58) Fluorene	15.643	166	275621	7.262	ng	91
71) Phenanthrene	17.394	178	3363517	57.099	ng	98
72) Anthracene	17.482	178	976465	16.217	ng	100
73) Carbazole	17.746	167	122581	2.679	ng	# 91
75) Fluoranthene	19.409	202	6771680	69.948	ng	67
78) Pyrene	19.773	202	6651865	72.182	ng	# 67
81) Benzo(a)anthracene	21.606	228	5546307	48.005	ng	# 88
83) Chrysene	21.671	228	5159699m	47.633	ng	
87) Indeno(1,2,3-cd)pyrene	28.481	276	3955346	25.886	ng	# 100
88) Benzo(b)fluoranthene	23.816	252	7240114	56.609	ng	96
89) Benzo(k)fluoranthene	23.874	252	2774020m	22.259	ng	
90) Benzo(a)pyrene	24.679	252	5574919	48.808	ng	92
91) Dibenzo(a,h)anthracene	28.516	278	1008255	7.772	ng	# 89
92) Benzo(g,h,i)perylene	29.621	276	3629276	28.926	ng	93

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

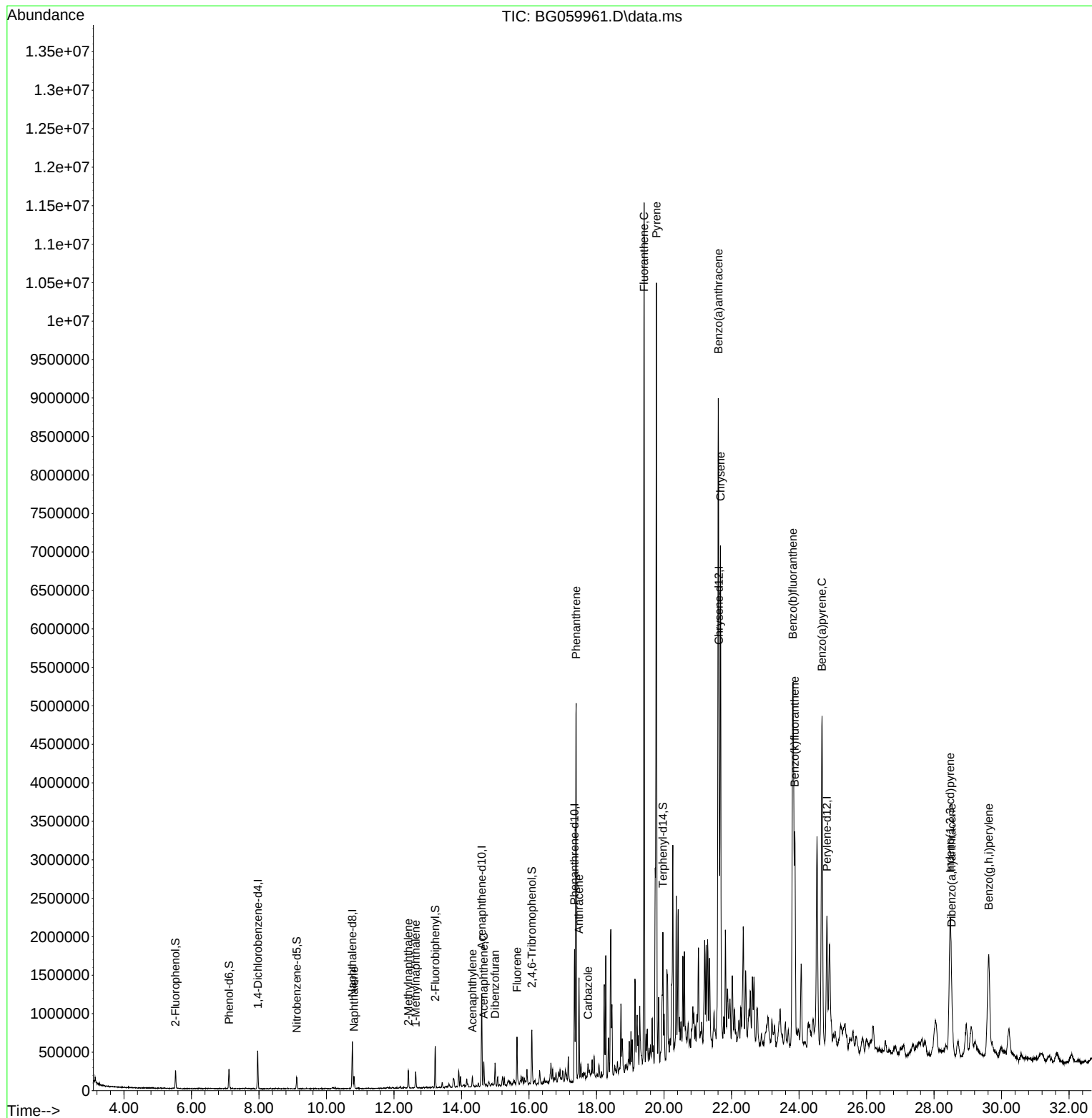
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG120523\
Data File : BG059961.D
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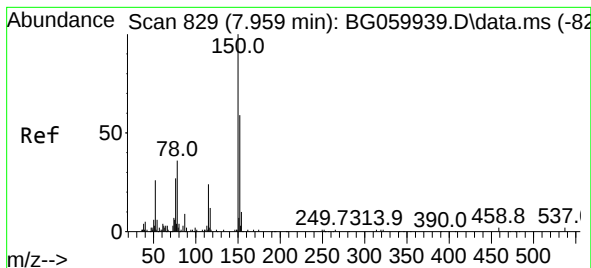
Instrument :
BNA_G
ClientSampleId :
OR-03-113023

Quant Time: Dec 05 23:26:50 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG120423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 05 02:26:15 2023
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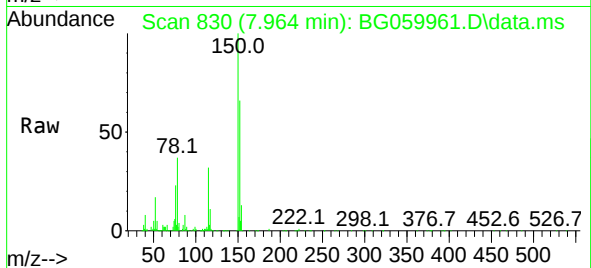
Reviewed By :Yogesh Patel 12/06/2023
Supervised By :mohammad ahmed 12/06/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.964 min Scan# 81
Delta R.T. 0.005 min
Lab File: BG059961.D
Acq: 5 Dec 2023 22:51

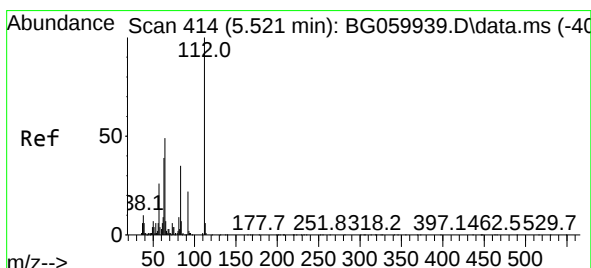
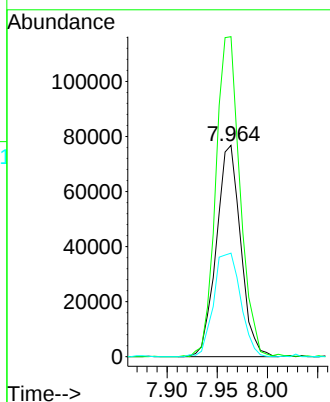
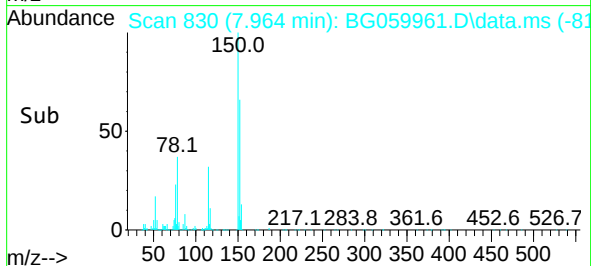
Instrument :
BNA_G
ClientSampleId :
OR-03-113023



Tgt Ion:152 Resp: 12914
Ion Ratio Lower Upper
152 100
150 151.4 136.9 205.3
115 49.0 32.9 49.3

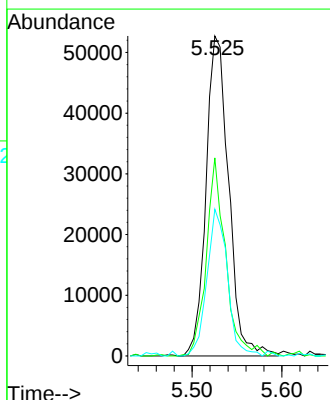
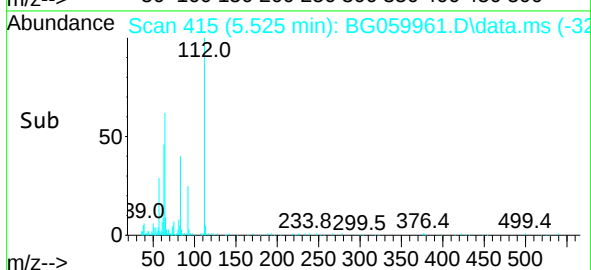
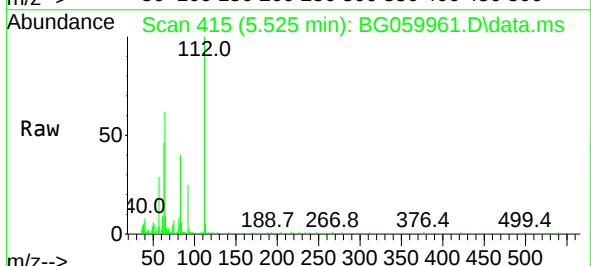
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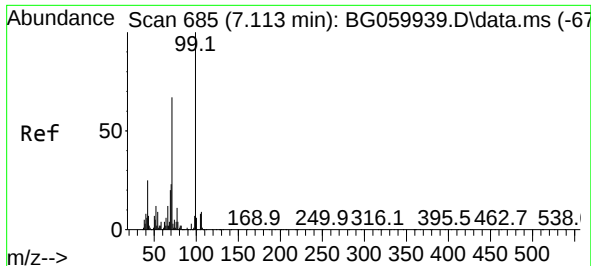
Reviewed By :Yogesh Patel 12/06/2023
Supervised By :mohammad ahmed 12/06/2023



#5
2-Fluorophenol
Concen: 14.356 ng
RT: 5.525 min Scan# 415
Delta R.T. 0.004 min
Lab File: BG059961.D
Acq: 5 Dec 2023 22:51

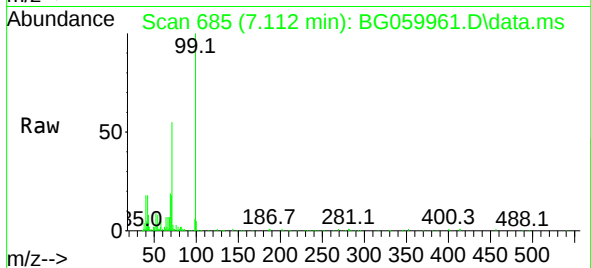
Tgt Ion:112 Resp: 92273
Ion Ratio Lower Upper
112 100
64 61.9 39.4 59.0#
63 45.8 31.2 46.8





#7
Phenol-d6
Concen: 12.155 ng
RT: 7.112 min Scan# 685
Delta R.T. -0.002 min
Lab File: BG059961.D
Acq: 5 Dec 2023 22:51

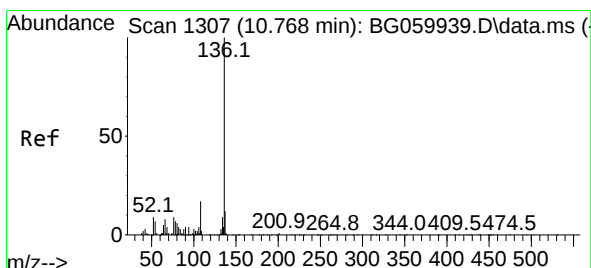
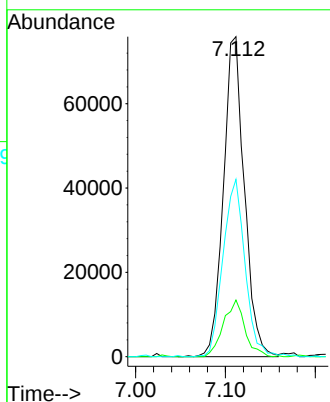
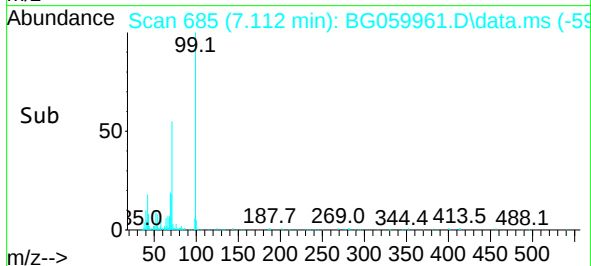
Instrument :
BNA_G
ClientSampleId :
OR-03-113023



Tgt Ion: 99 Resp: 123135
Ion Ratio Lower Upper
99 100
42 17.7 20.1 30.1#
71 55.4 53.8 80.6

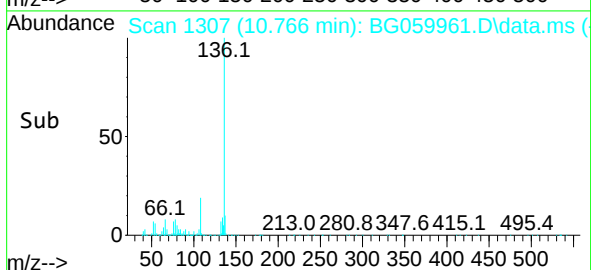
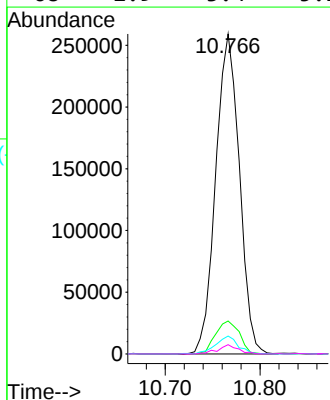
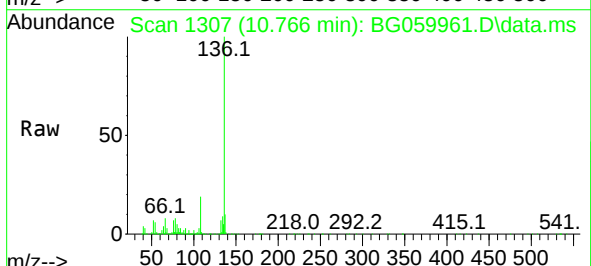
Manual Integrations
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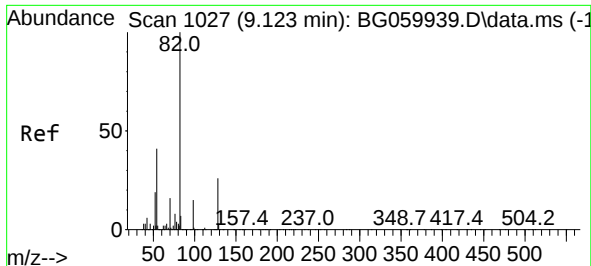
Reviewed By :Yogesh Patel 12/06/2023
Supervised By :mohammad ahmed 12/06/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.766 min Scan# 1307
Delta R.T. -0.002 min
Lab File: BG059961.D
Acq: 5 Dec 2023 22:51

Tgt Ion:136 Resp: 449805
Ion Ratio Lower Upper
136 100
137 10.3 9.8 14.6
54 5.6 5.8 8.6#
68 2.9 3.4 5.2#





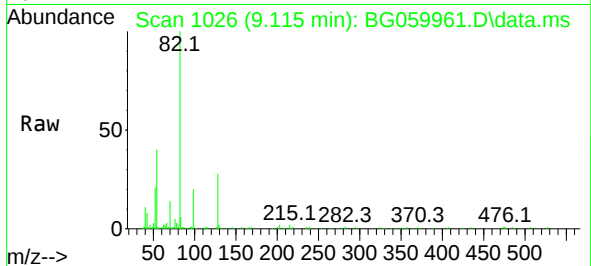
#23
Nitrobenzene-d5
Concen: 7.212 ng
RT: 9.115 min Scan# 1026
Delta R.T. -0.007 min
Lab File: BG059961.D
Acq: 5 Dec 2023 22:51

Instrument :

BNA_G

ClientSampleId :

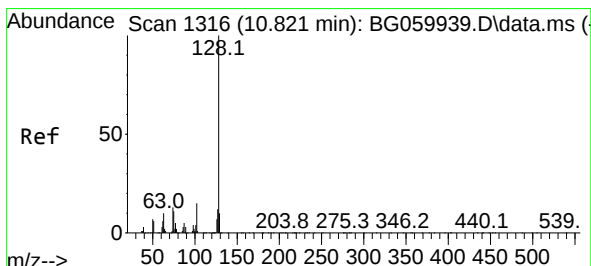
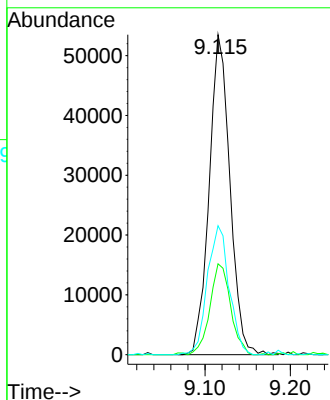
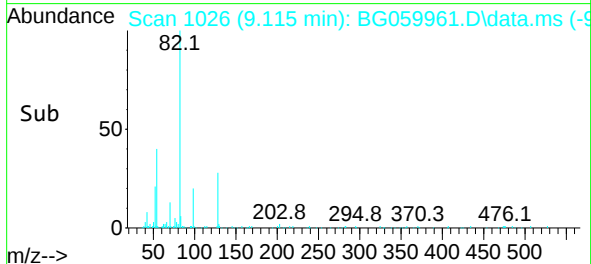
OR-03-113023



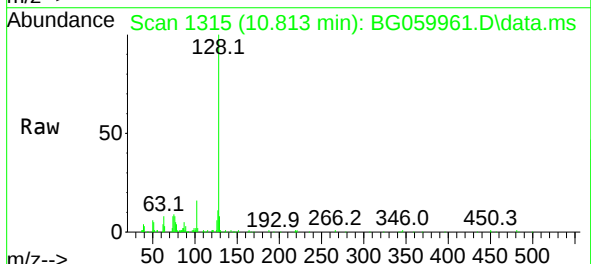
Tgt Ion: 82 Resp: 9075
Ion Ratio Lower Upper
82 100
128 28.4 21.0 31.6
54 40.3 32.6 48.8

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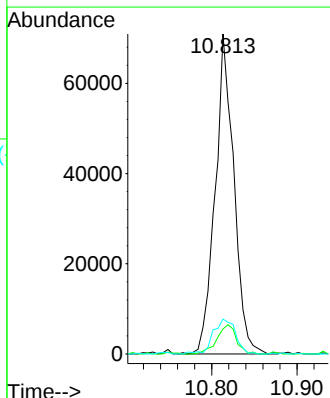
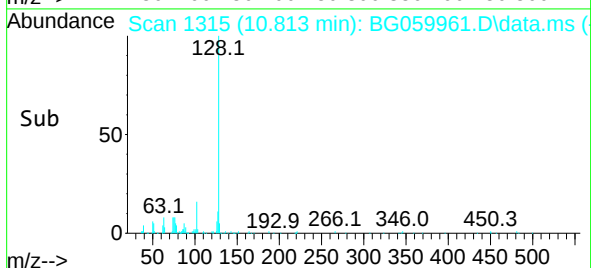
Reviewed By :Yogesh Patel 12/06/2023
Supervised By :mohammad ahmed 12/06/2023

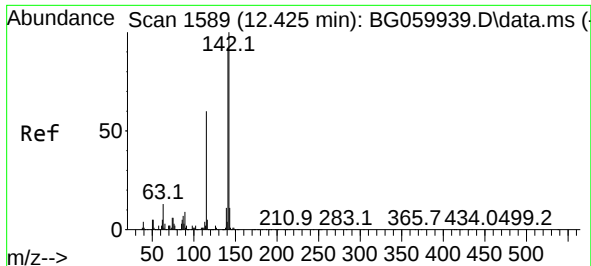


#31
Naphthalene
Concen: 4.692 ng
RT: 10.813 min Scan# 1315
Delta R.T. -0.007 min
Lab File: BG059961.D
Acq: 5 Dec 2023 22:51



Tgt Ion:128 Resp: 108482
Ion Ratio Lower Upper
128 100
129 7.8 7.6 11.4
127 10.9 9.9 14.9





#37
2-Methylnaphthalene
Concen: 5.058 ng
RT: 12.423 min Scan# 1589
Delta R.T. -0.002 min
Lab File: BG059961.D
Acq: 5 Dec 2023 22:51

Instrument :

BNA_G

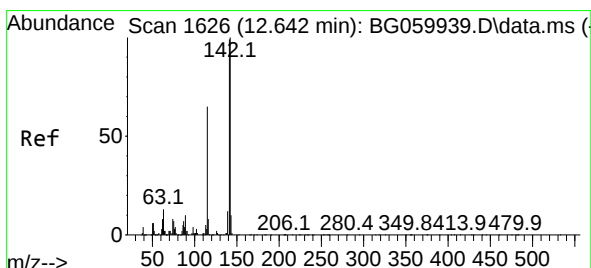
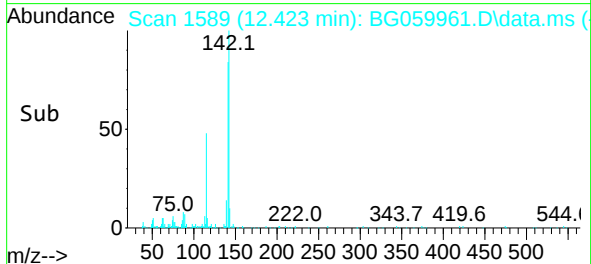
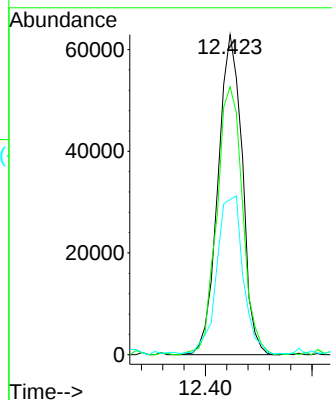
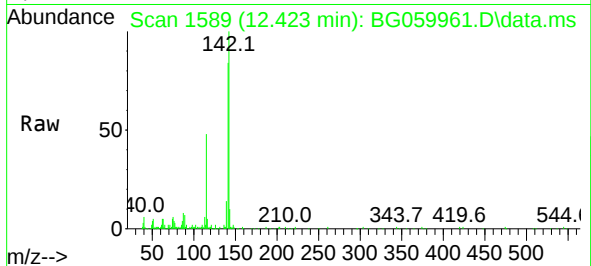
ClientSampleId :

OR-03-113023

Tgt Ion:142 Resp: 9927
Ion Ratio Lower Upper
142 100
141 83.7 73.4 110.2
115 48.5 48.1 72.1

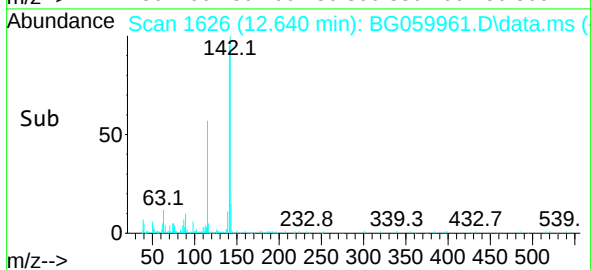
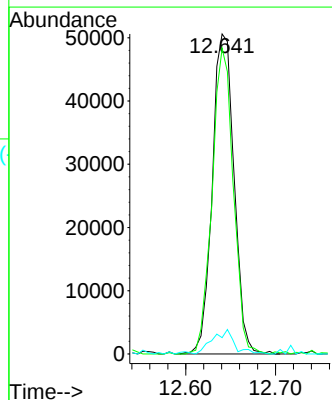
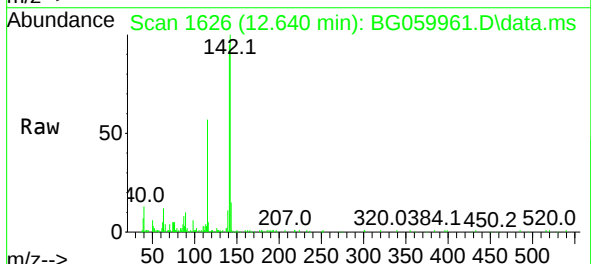
Manual Integrations
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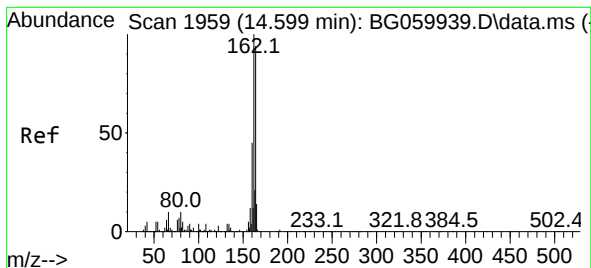
Reviewed By :Yogesh Patel 12/06/2023
Supervised By :mohammad ahmed 12/06/2023



#38
1-Methylnaphthalene
Concen: 4.450 ng
RT: 12.640 min Scan# 1626
Delta R.T. -0.002 min
Lab File: BG059961.D
Acq: 5 Dec 2023 22:51

Tgt Ion:142 Resp: 85288
Ion Ratio Lower Upper
142 100
141 95.5 79.4 119.2
116 5.1 6.2 9.4#





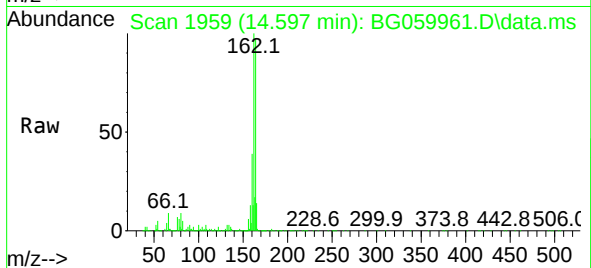
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.597 min Scan# 1959
Delta R.T. -0.002 min
Lab File: BG059961.D
Acq: 5 Dec 2023 22:51

Instrument :

BNA_G

ClientSampleId :

OR-03-113023



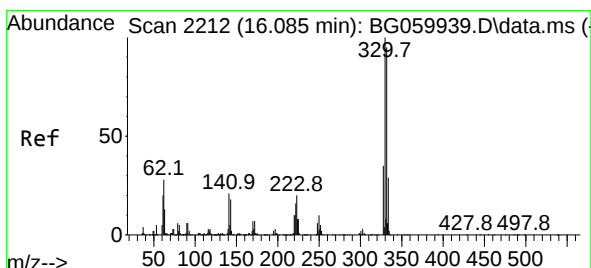
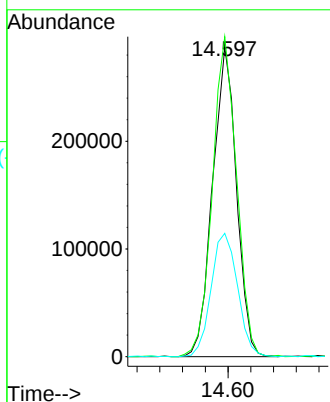
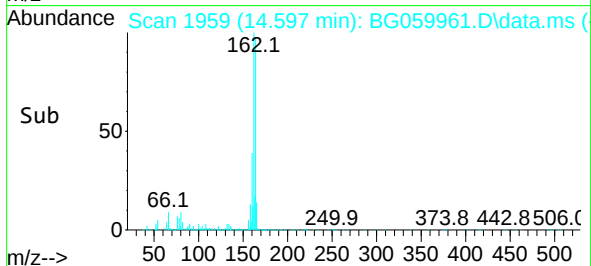
Tgt Ion:164 Resp: 418640
Ion Ratio Lower Upper
164 100
162 103.4 85.0 127.6
160 39.8 38.1 57.1

Manual Integrations

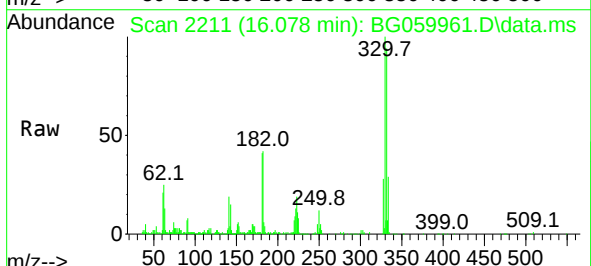
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Reviewed By :Yogesh Patel 12/06/2023

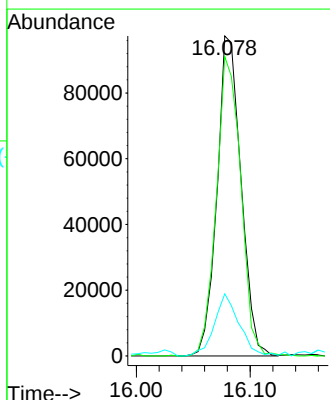
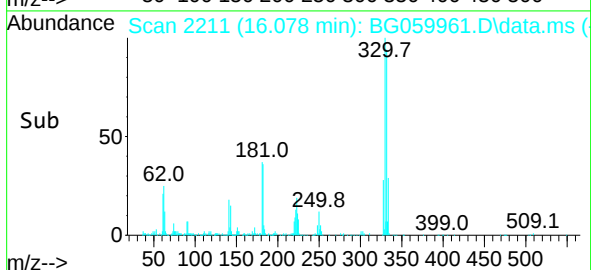
Supervised By :mohammad ahmed 12/06/2023

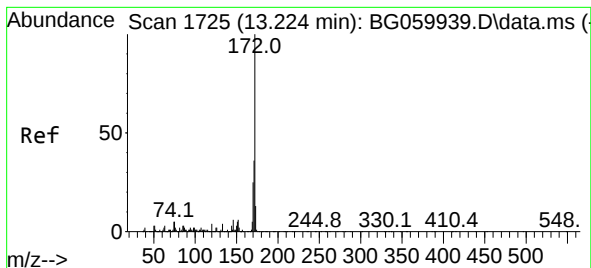


#42
2,4,6-Tribromophenol
Concen: 10.603 ng
RT: 16.078 min Scan# 2211
Delta R.T. -0.007 min
Lab File: BG059961.D
Acq: 5 Dec 2023 22:51



Tgt Ion:330 Resp: 142818
Ion Ratio Lower Upper
330 100
332 95.2 76.5 114.7
141 20.0 15.0 22.6





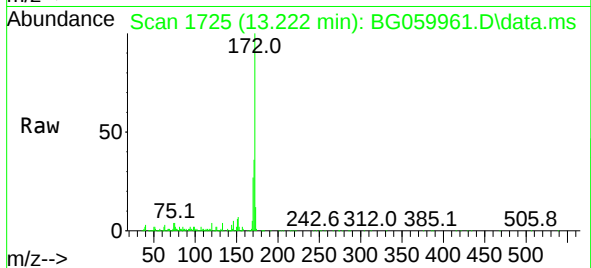
#45
2-Fluorobiphenyl
Concen: 7.633 ng
RT: 13.222 min Scan# 1725
Delta R.T. -0.002 min
Lab File: BG059961.D
Acq: 5 Dec 2023 22:51

Instrument :

BNA_G

ClientSampleId :

OR-03-113023



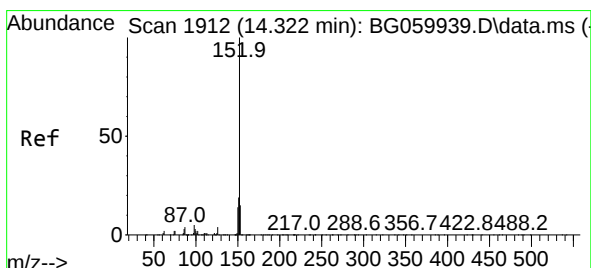
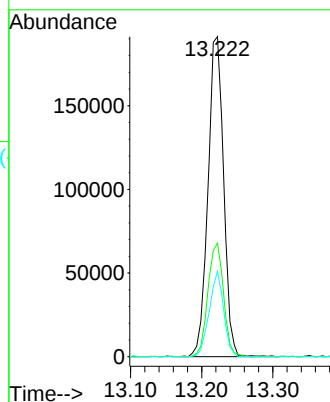
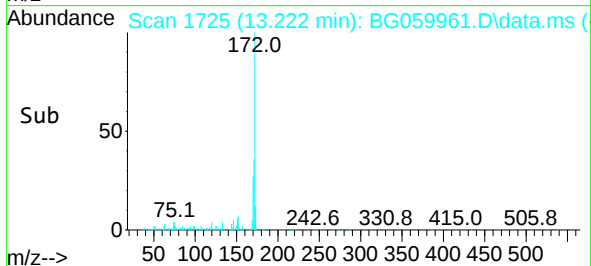
Tgt Ion:172 Resp: 292994
Ion Ratio Lower Upper
172 100
171 35.5 28.6 43.0
170 26.7 19.8 29.8

Manual Integrations

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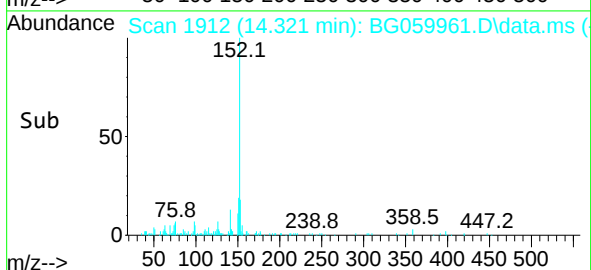
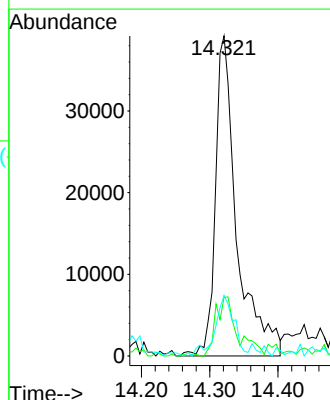
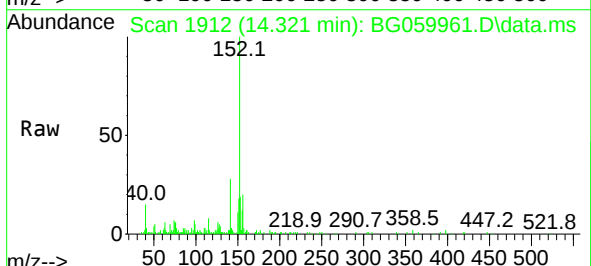
Reviewed By :Yogesh Patel 12/06/2023

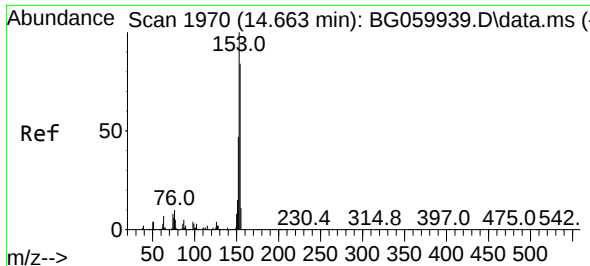
Supervised By :mohammad ahmed 12/06/2023



#49
Acenaphthylene
Concen: 2.337 ng
RT: 14.321 min Scan# 1912
Delta R.T. -0.002 min
Lab File: BG059961.D
Acq: 5 Dec 2023 22:51

Tgt Ion:152 Resp: 85617
Ion Ratio Lower Upper
152 100
151 18.3 15.3 22.9
153 18.9 11.7 17.5#





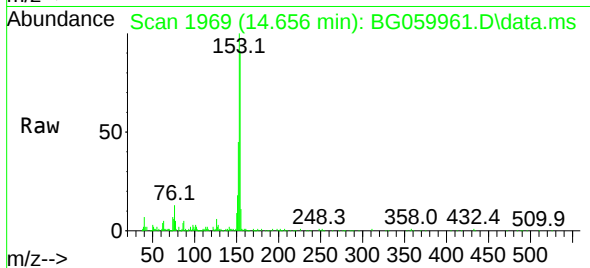
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Acenaphthene
Concen: 4.414 ng
RT: 14.656 min Scan# 1970
Delta R.T. -0.007 min
Lab File: BG059961.D
Acq: 5 Dec 2023 22:51

Instrument :

BNA_G

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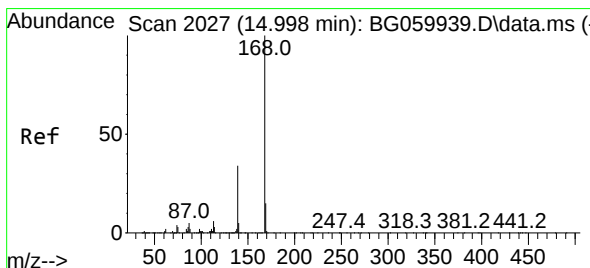
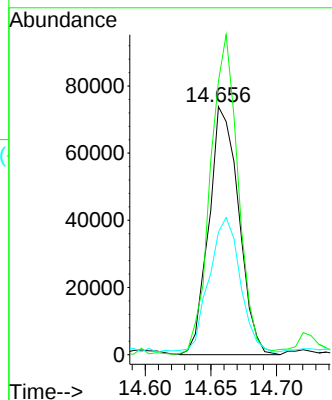
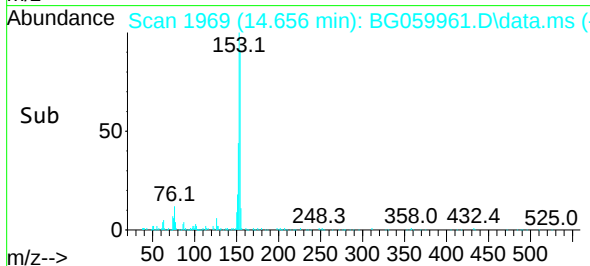


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Ion Ratio Lower Upper
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153 110.3 95.8 143.6
152 49.4 45.0 67.4

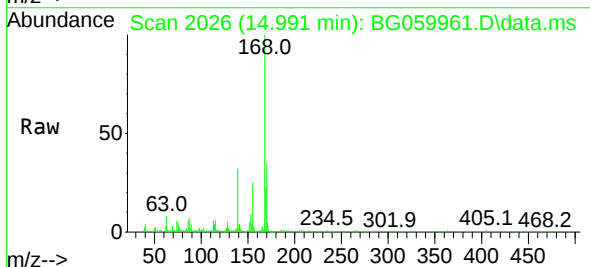
Manual Integrations

APPROVED

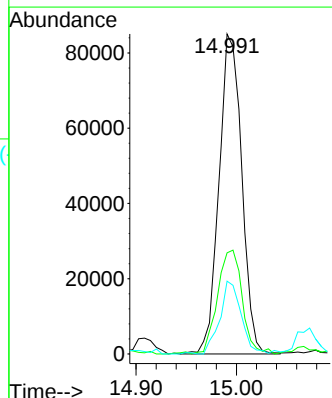
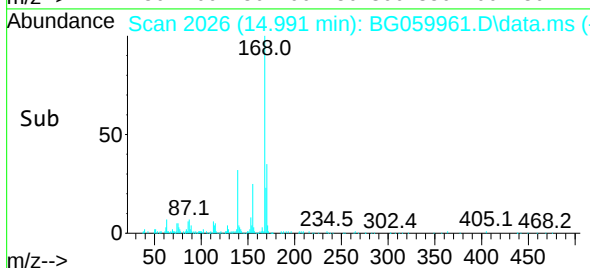
Reviewed By :Yogesh Patel 12/06/2023
Supervised By :mohammad ahmed 12/06/2023

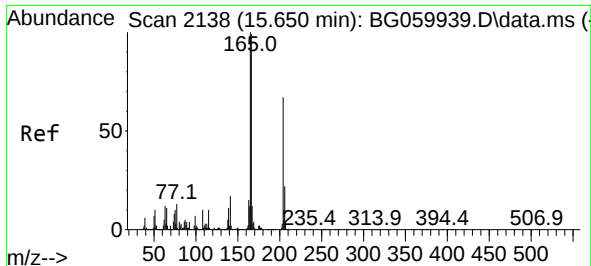


#55
Dibenzofuran
Concen: 2.996 ng
RT: 14.991 min Scan# 2026
Delta R.T. -0.007 min
Lab File: BG059961.D
Acq: 5 Dec 2023 22:51



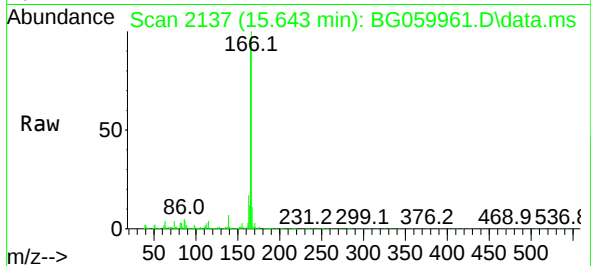
Tgt Ion:168 Resp: 133600
Ion Ratio Lower Upper
168 100
139 31.6 27.0 40.6
169 22.7 11.6 17.4#





#58
Fluorene
Concen: 7.262 ng
RT: 15.643 min Scan# 2138
Delta R.T. -0.007 min
Lab File: BG059961.D
Acq: 5 Dec 2023 22:51

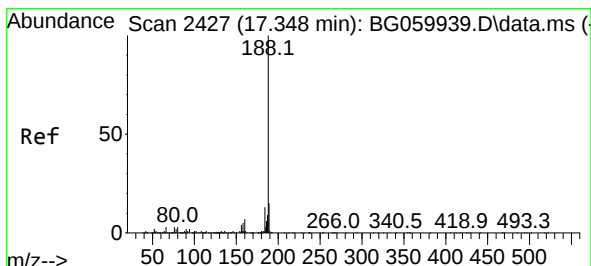
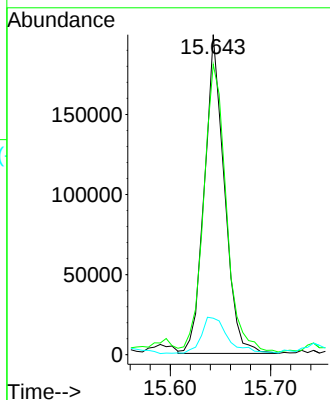
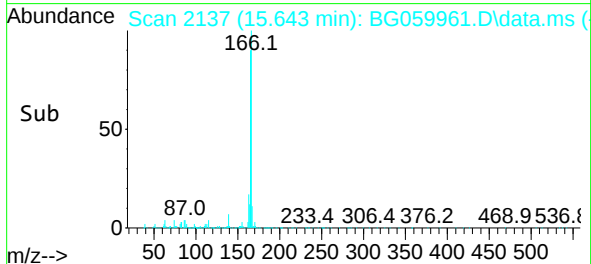
Instrument :
BNA_G
ClientSampleId :
OR-03-113023



Tgt Ion:166 Resp: 27562
Ion Ratio Lower Upper
166 100
165 90.7 80.6 121.0
167 11.4 9.9 14.9

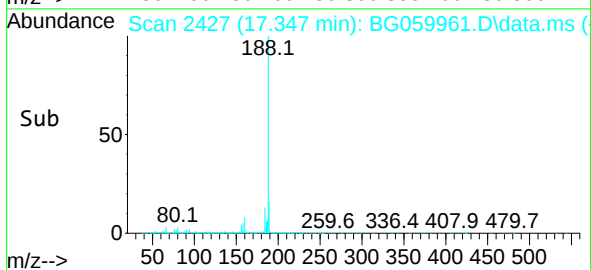
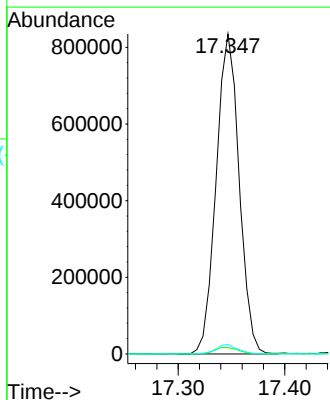
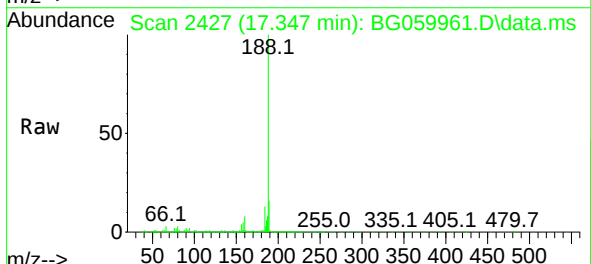
Manual Integrations
APPROVED

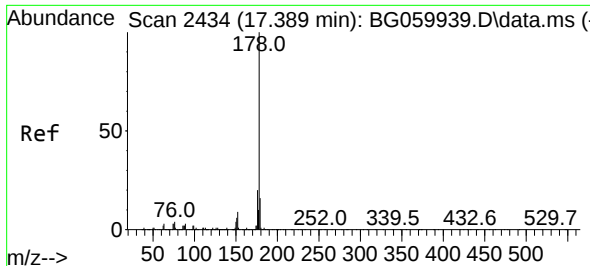
Reviewed By :Yogesh Patel 12/06/2023
Supervised By :mohammad ahmed 12/06/2023



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.347 min Scan# 2427
Delta R.T. -0.002 min
Lab File: BG059961.D
Acq: 5 Dec 2023 22:51

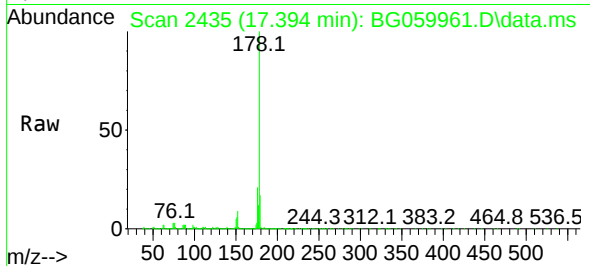
Tgt Ion:188 Resp: 1247515
Ion Ratio Lower Upper
188 100
94 1.9 1.8 2.6
80 2.9 2.2 3.4





#71
Phenanthrene
Concen: 57.099 ng
RT: 17.394 min Scan# 2434
Delta R.T. 0.004 min
Lab File: BG059961.D
Acq: 5 Dec 2023 22:51

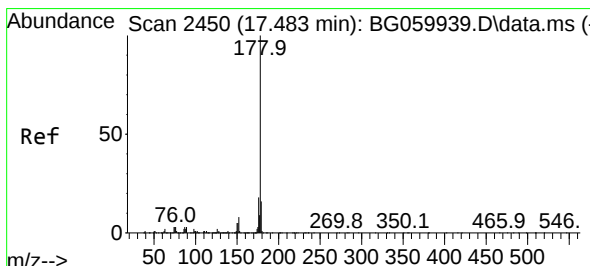
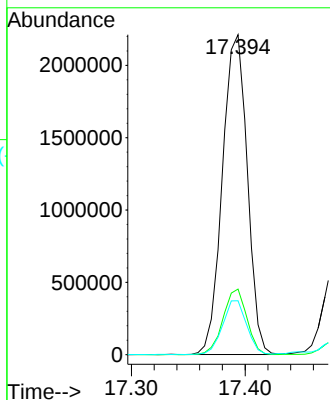
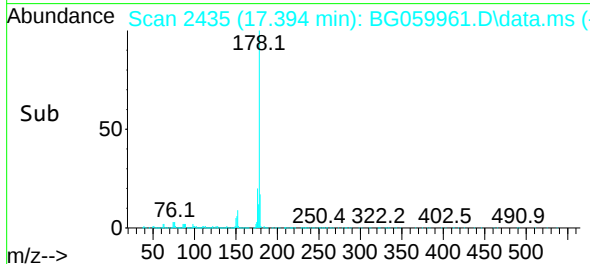
Instrument :
BNA_G
ClientSampleId :
OR-03-113023



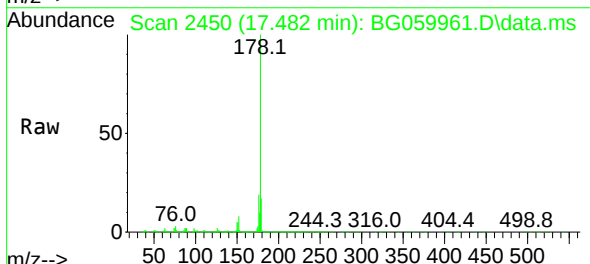
Tgt Ion:178 Resp: 336351
Ion Ratio Lower Upper
178 100
176 20.5 15.8 23.8
179 16.9 12.6 19.0

Manual Integrations
APPROVED

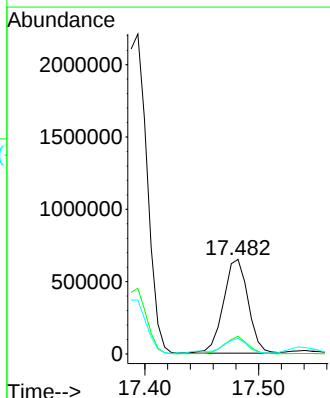
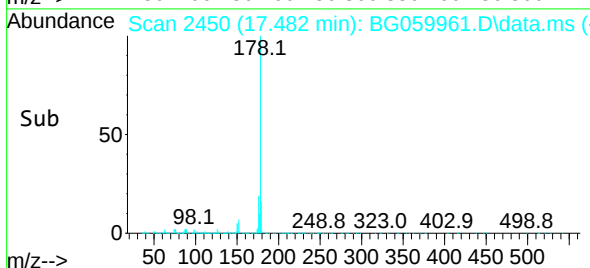
Reviewed By :Yogesh Patel 12/06/2023
Supervised By :mohammad ahmed 12/06/2023

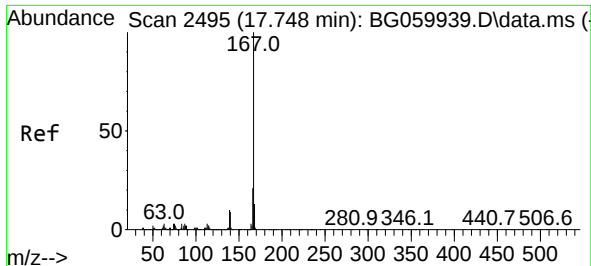


#72
Anthracene
Concen: 16.217 ng
RT: 17.482 min Scan# 2450
Delta R.T. -0.002 min
Lab File: BG059961.D
Acq: 5 Dec 2023 22:51



Tgt Ion:178 Resp: 976465
Ion Ratio Lower Upper
178 100
176 18.7 14.7 22.1
179 16.5 13.2 19.8





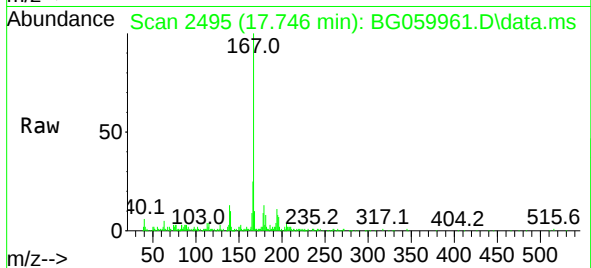
#73
 Carbazole
 Concen: 2.679 ng
 RT: 17.746 min Scan# 2495
 Delta R.T. -0.002 min
 Lab File: BG059961.D
 Acq: 5 Dec 2023 22:51

Instrument :

BNA_G

ClientSampleId :

OR-03-113023



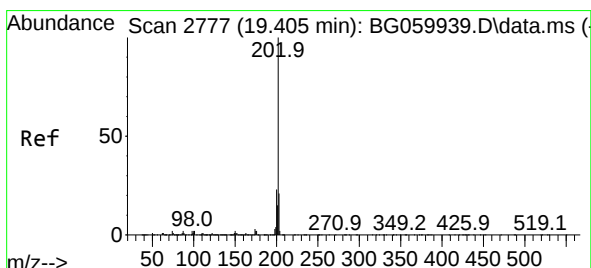
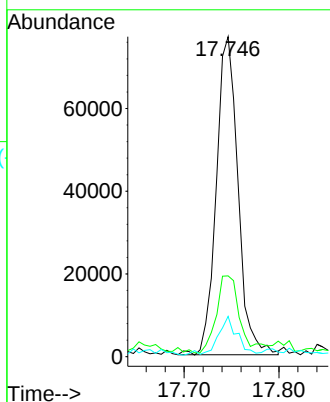
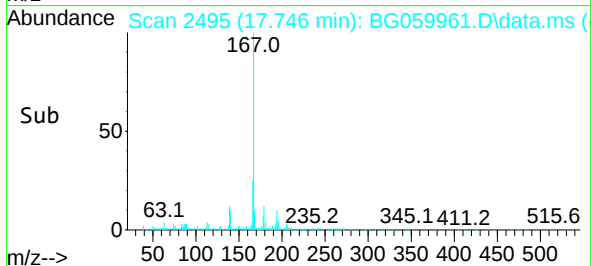
Tgt Ion:167 Resp: 12258
 Ion Ratio Lower Upper
 167 100
 166 25.3 16.7 25.1
 139 12.6 8.0 12.0

Manual Integrations

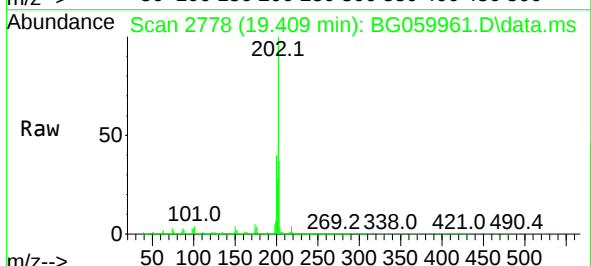
APPROVED

Reviewed By :Yogesh Patel 12/06/2023

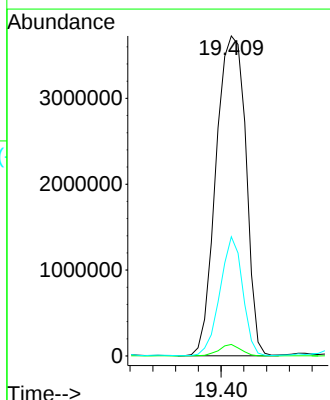
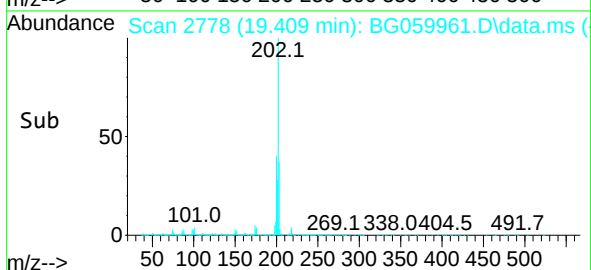
Supervised By :mohammad ahmed 12/06/2023

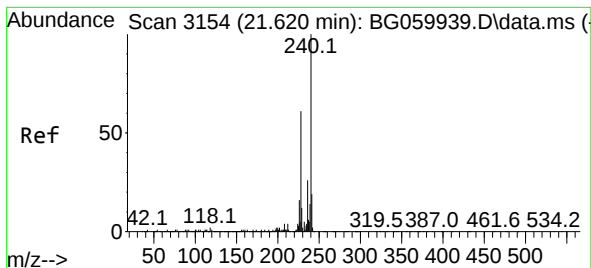


#75
 Fluoranthene
 Concen: 69.948 ng
 RT: 19.409 min Scan# 2778
 Delta R.T. 0.004 min
 Lab File: BG059961.D
 Acq: 5 Dec 2023 22:51



Tgt Ion:202 Resp: 6771680
 Ion Ratio Lower Upper
 202 100
 101 3.6 0.0 21.6
 203 37.3 0.9 40.9





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.624 min Scan# 31

Delta R.T. 0.004 min

Lab File: BG059961.D

Acq: 5 Dec 2023 22:51

Instrument :

BNA_G

ClientSampleId :

OR-03-113023

Tgt Ion:240 Resp: 173164

Ion Ratio Lower Upper

240 100

120 1.1 1.0 1.4

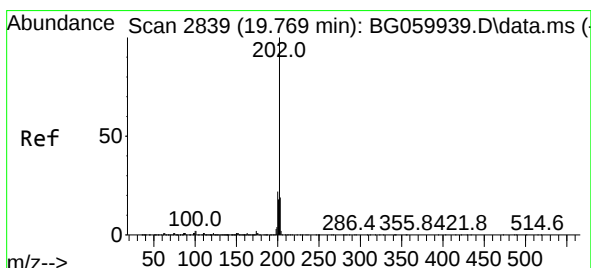
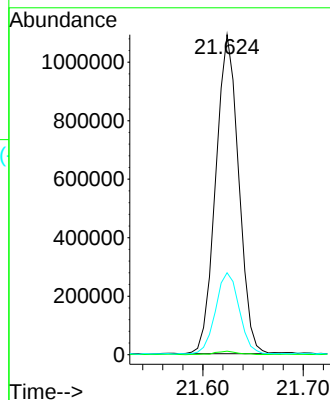
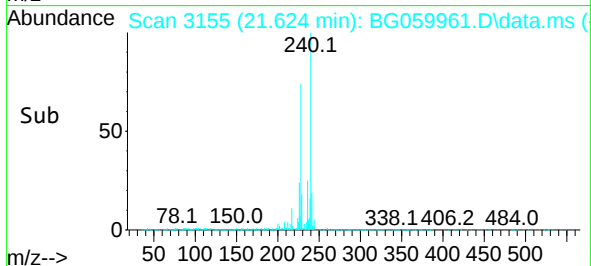
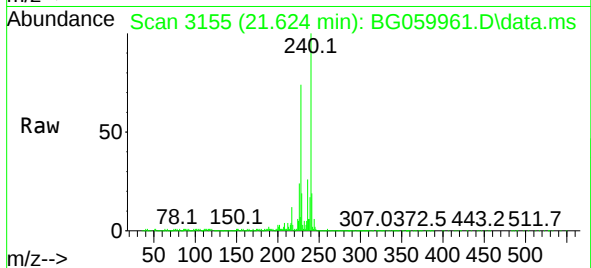
236 25.6 20.8 31.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/06/2023

Supervised By :mohammad ahmed 12/06/2023



#78

Pyrene

Concen: 72.182 ng

RT: 19.773 min Scan# 2840

Delta R.T. 0.004 min

Lab File: BG059961.D

Acq: 5 Dec 2023 22:51

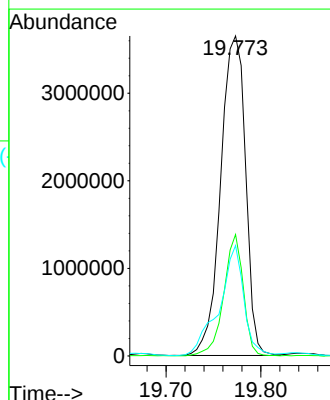
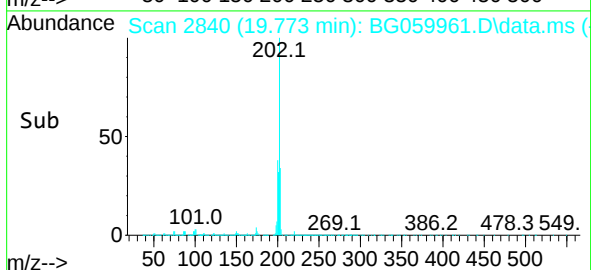
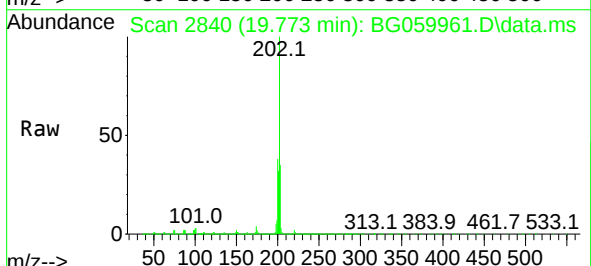
Tgt Ion:202 Resp: 6651865

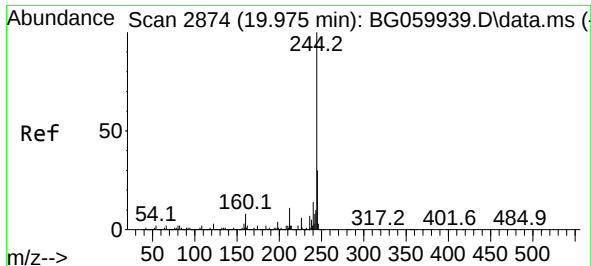
Ion Ratio Lower Upper

202 100

200 37.9 17.8 26.6#

203 34.5 15.4 23.0#





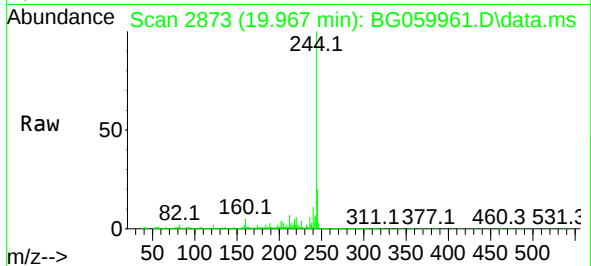
#79
 Terphenyl-d14
 Concen: 8.066 ng
 RT: 19.967 min Scan# 21
 Delta R.T. -0.008 min
 Lab File: BG059961.D
 Acq: 5 Dec 2023 22:51

Instrument :

BNA_G

ClientSampleId :

OR-03-113023



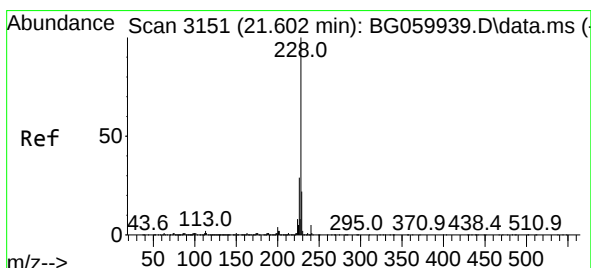
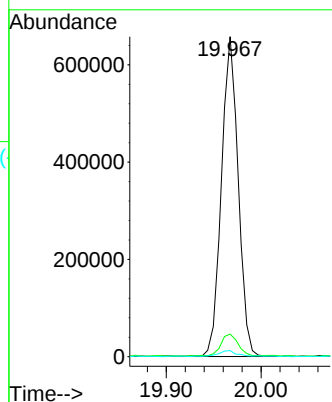
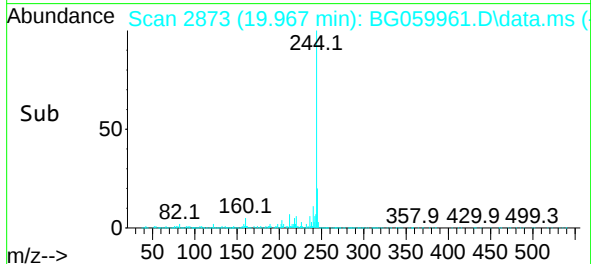
Tgt Ion:244 Resp: 81023
 Ion Ratio Lower Upper
 244 100
 212 7.1 8.6 13.0
 122 1.9 2.1 3.1

Manual Integrations

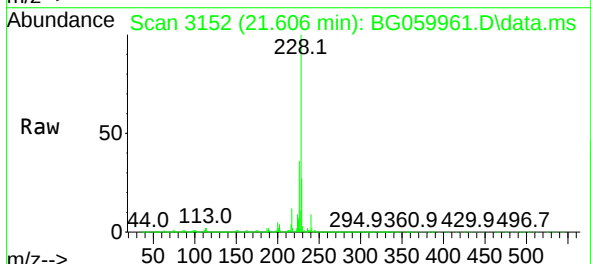
APPROVED

Reviewed By :Yogesh Patel 12/06/2023

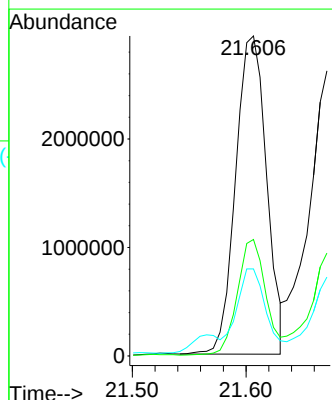
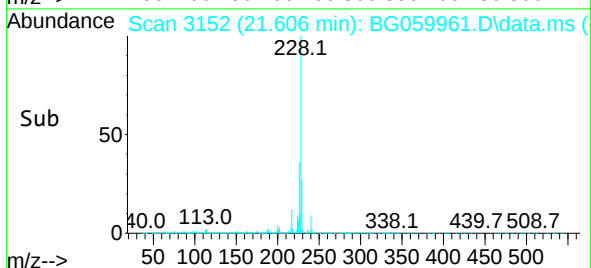
Supervised By :mohammad ahmed 12/06/2023

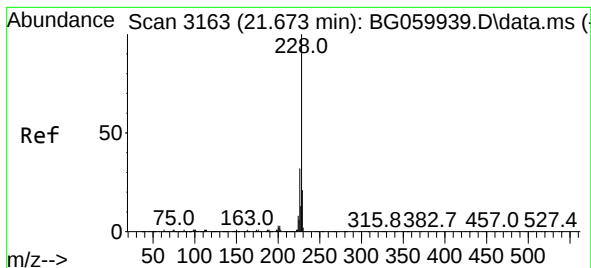


#81
 Benzo(a)anthracene
 Concen: 48.005 ng
 RT: 21.606 min Scan# 3152
 Delta R.T. 0.004 min
 Lab File: BG059961.D
 Acq: 5 Dec 2023 22:51



Tgt Ion:228 Resp: 5546307
 Ion Ratio Lower Upper
 228 100
 226 36.4 23.4 35.2#
 229 27.2 17.4 26.2#





#83

Chrysene

Concen: 47.633 ng m

RT: 21.671 min Scan# 31

Delta R.T. -0.002 min

Lab File: BG059961.D

Acq: 5 Dec 2023 22:51

Instrument :

BNA_G

ClientSampleId :

OR-03-113023

Tgt Ion:228 Resp: 515969

Ion Ratio Lower Upper

228 100

226 36.1 25.4 38.2

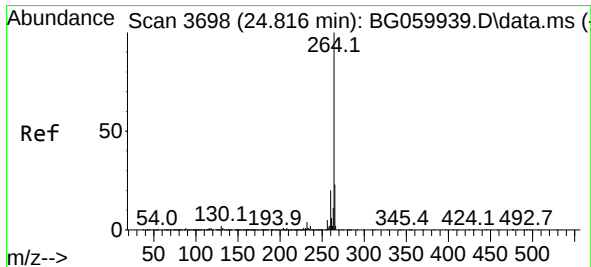
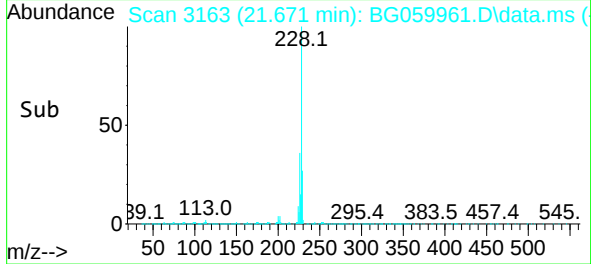
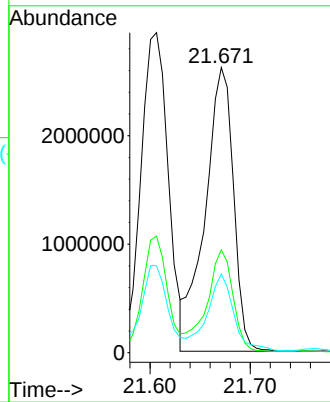
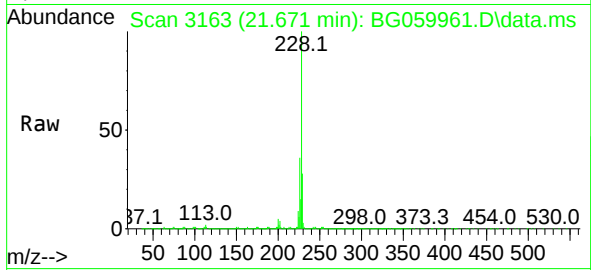
229 27.7 17.1 25.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/06/2023

Supervised By :mohammad ahmed 12/06/2023



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.826 min Scan# 3700

Delta R.T. 0.010 min

Lab File: BG059961.D

Acq: 5 Dec 2023 22:51

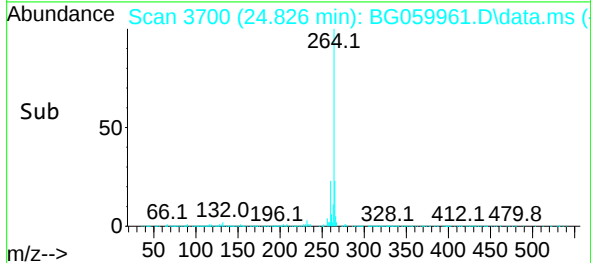
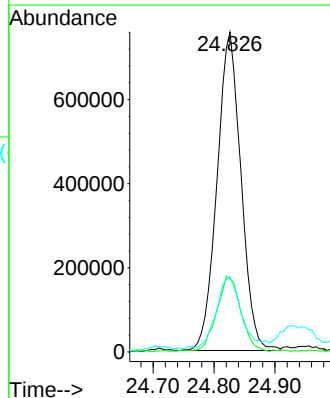
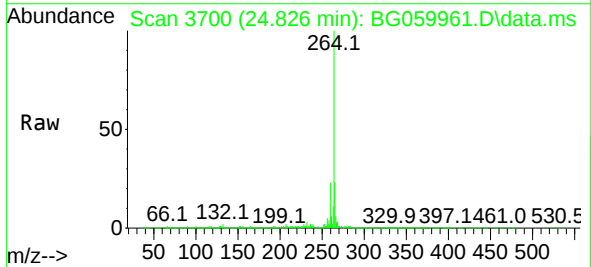
Tgt Ion:264 Resp: 2069199

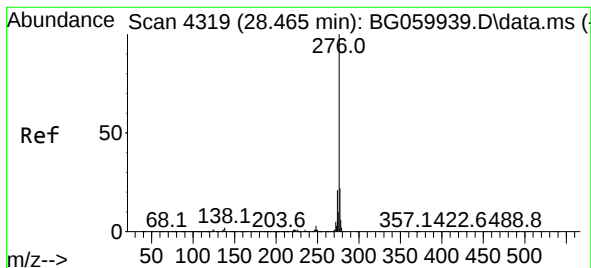
Ion Ratio Lower Upper

264 100

260 22.8 15.8 23.6

265 23.5 18.1 27.1





#87

Indeno(1,2,3-cd)pyrene

Concen: 25.886 ng

RT: 28.481 min Scan# 4319

Delta R.T. 0.016 min

Lab File: BG059961.D

Acq: 5 Dec 2023 22:51

Instrument :

BNA_G

ClientSampleId :

OR-03-113023

Tgt Ion:276 Resp: 395534

Ion Ratio Lower Upper

276 100

138 2.3 0.0 0.0

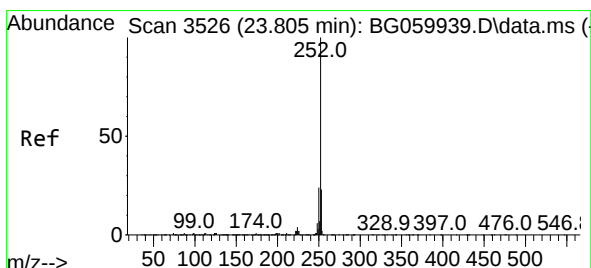
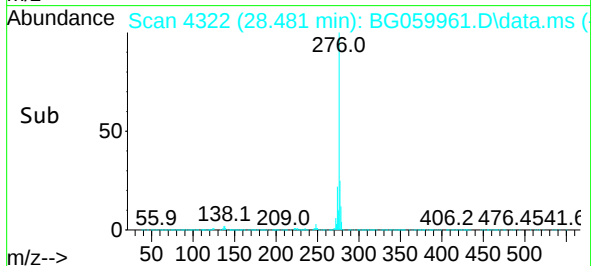
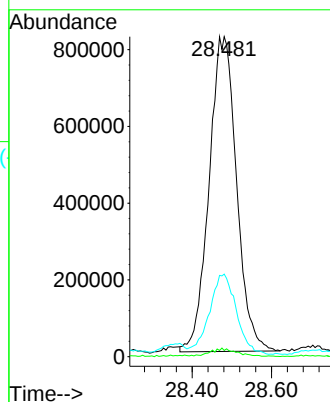
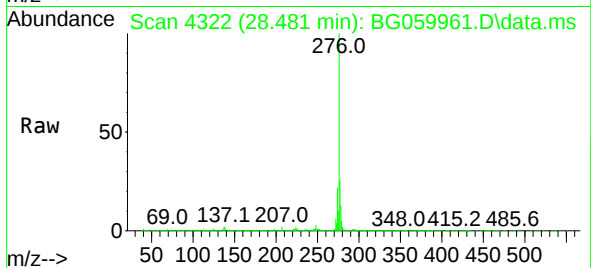
277 25.0 19.9 29.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/06/2023

Supervised By :mohammad ahmed 12/06/2023



#88

Benzo(b)fluoranthene

Concen: 56.609 ng

RT: 23.816 min Scan# 3528

Delta R.T. 0.010 min

Lab File: BG059961.D

Acq: 5 Dec 2023 22:51

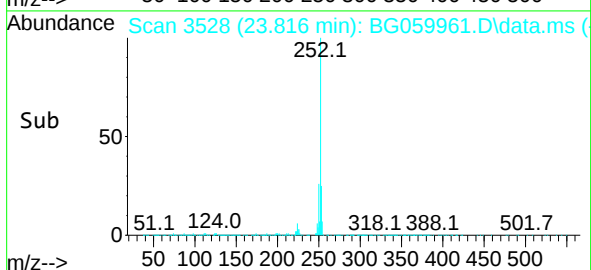
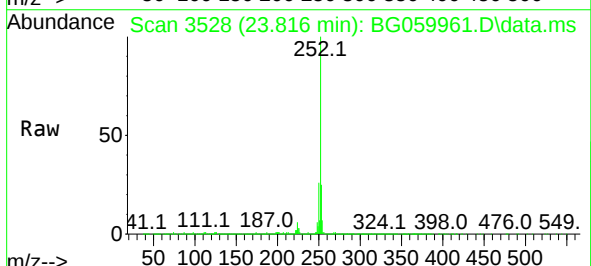
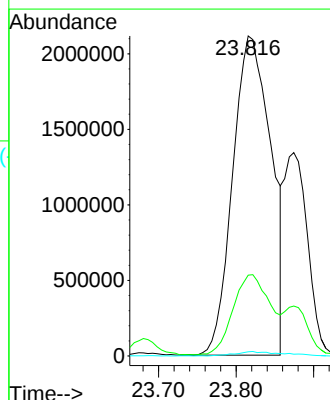
Tgt Ion:252 Resp: 7240114

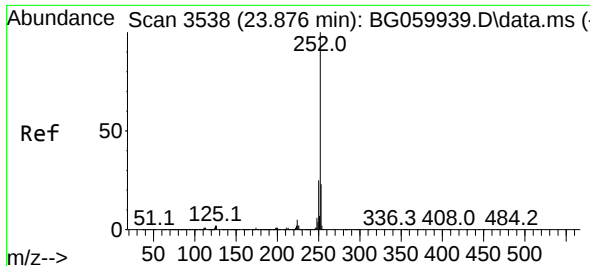
Ion Ratio Lower Upper

252 100

253 25.3 18.5 27.7

125 1.3 1.2 1.8





#89
Benzo(k)fluoranthene
Concen: 22.259 ng m
RT: 23.874 min Scan# 3538
Delta R.T. -0.002 min
Lab File: BG059961.D
Acq: 5 Dec 2023 22:51

Instrument :

BNA_G

ClientSampleId :

OR-03-113023

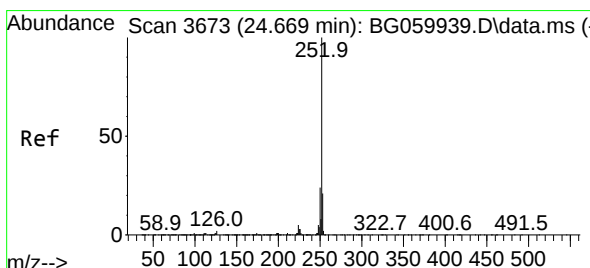
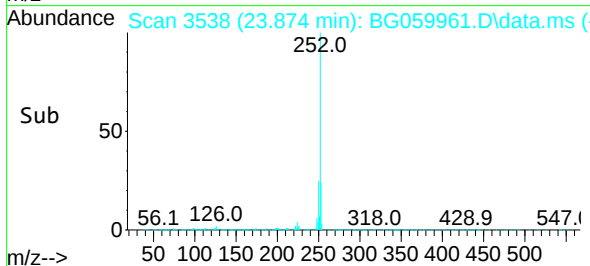
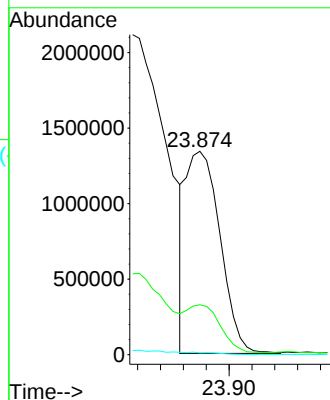
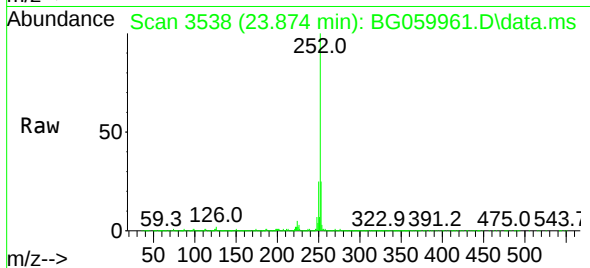
Tgt Ion:252 Resp: 2774020
Ion Ratio Lower Upper
252 100
253 24.6 18.3 27.5
125 0.9 1.3 1.9

Manual Integrations

APPROVED

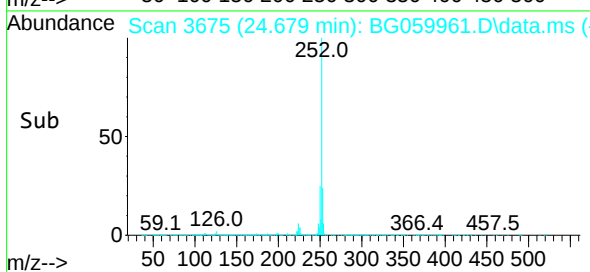
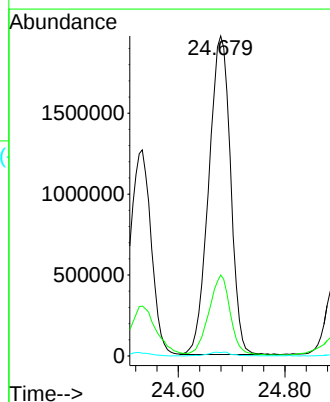
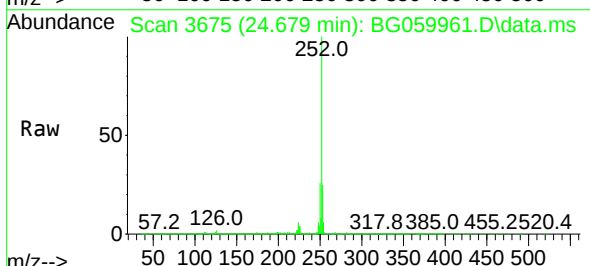
Reviewed By :Yogesh Patel 12/06/2023

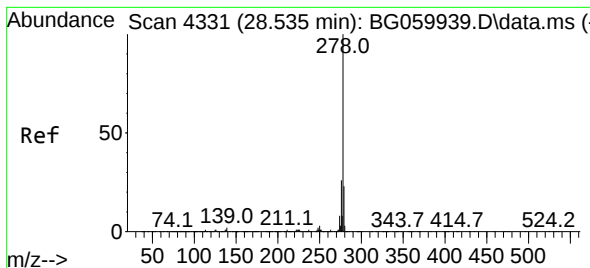
Supervised By :mohammad ahmed 12/06/2023



#90
Benzo(a)pyrene
Concen: 48.808 ng
RT: 24.679 min Scan# 3675
Delta R.T. 0.010 min
Lab File: BG059961.D
Acq: 5 Dec 2023 22:51

Tgt Ion:252 Resp: 5574919
Ion Ratio Lower Upper
252 100
253 25.3 17.0 25.6
125 1.1 0.9 1.3





#91

Dibenzo(a,h)anthracene

Concen: 7.772 ng

RT: 28.516 min Scan# 41

Delta R.T. -0.019 min

Lab File: BG059961.D

Acq: 5 Dec 2023 22:51

Instrument :

BNA_G

ClientSampleId :

OR-03-113023

Tgt Ion:278 Resp: 100825

Ion Ratio Lower Upper

278 100

139 3.0 1.7 2.5

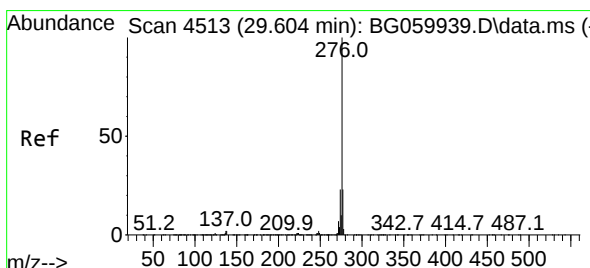
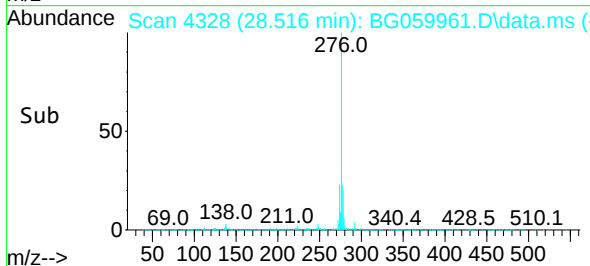
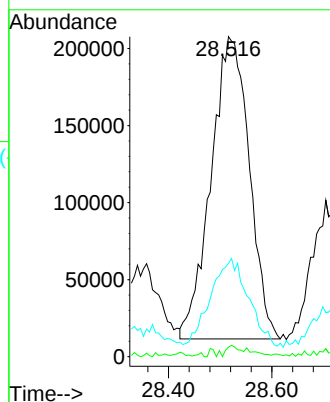
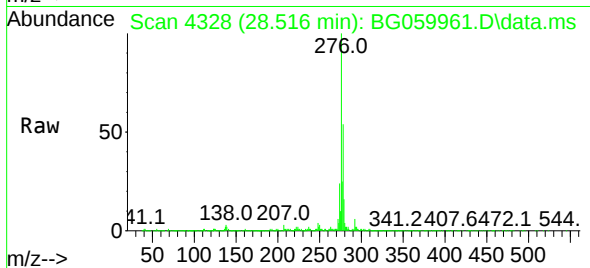
279 29.2 18.8 28.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/06/2023

Supervised By :mohammad ahmed 12/06/2023



#92

Benzo(g,h,i)perylene

Concen: 28.926 ng

RT: 29.621 min Scan# 4516

Delta R.T. 0.016 min

Lab File: BG059961.D

Acq: 5 Dec 2023 22:51

Tgt Ion:276 Resp: 3629276

Ion Ratio Lower Upper

276 100

277 26.1 18.1 27.1

138 2.1 1.6 2.4

