

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG022123\
 Data File : BG056684.D
 Acq On : 21 Feb 2023 14:19
 Operator : CG/JU
 Sample : 01552-03
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SB-01-4.0-6.0-DUP

Manual Integrations
 APPROVED

Reviewed By :Christian Giraldo 02/22/2023
 Supervised By :Jagrut Upadhyay 02/22/2023

Quant Time: Feb 21 15:00:10 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG021523.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 21 14:28:49 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.432	152	21381	20.000	ng	0.00
21) Naphthalene-d8	11.270	136	81726	20.000	ng	0.00
39) Acenaphthene-d10	15.037	164	55769	20.000	ng	0.00
64) Phenanthrene-d10	17.769	188	119818	20.000	ng	0.00
76) Chrysene-d12	22.087	240	105143	20.000	ng	0.00
86) Perylene-d12	25.636	264	114654	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.941	112	153588	116.879	ng	0.00
7) Phenol-d6	7.557	99	219604	113.134	ng	0.00
23) Nitrobenzene-d5	9.608	82	144443	90.493	ng	0.00
42) 2,4,6-Tribromophenol	16.511	330	87860	115.068	ng	0.00
45) 2-Fluorobiphenyl	13.668	172	298904	71.769	ng	0.00
79) Terphenyl-d14	20.336	244	452508	70.414	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	11.323	128	29202	6.447	ng	97
37) 2-Methylnaphthalene	12.892	142	20226	5.656	ng	# 84
38) 1-Methylnaphthalene	13.103	142	18427	5.522	ng	# 98
49) Acenaphthylene	14.766	152	23987	4.416	ng	# 95
52) Acenaphthene	15.095	154	9060	2.704	ng	98
58) Fluorene	16.071	166	31100	6.949	ng	95
71) Phenanthrene	17.816	178	387140	59.389	ng	98
72) Anthracene	17.904	178	59026	8.849	ng	99
73) Carbazole	18.162	167	15213	2.646	ng	# 96
75) Fluoranthene	19.802	202	426383	49.572	ng	99
78) Pyrene	20.160	202	455642	57.381	ng	98
81) Benzo(a)anthracene	22.064	228	221840	28.371	ng	95
83) Chrysene	22.140	228	209359	28.641	ng	94
84) Bis(2-ethylhexyl)phtha...	21.934	149	16153	4.521	ng	# 91
87) Indeno(1,2,3-cd)pyrene	29.719	276	122727	13.668	ng	# 96
88) Benzo(b)fluoranthene	24.502	252	236762	31.609	ng	96
89) Benzo(k)fluoranthene	24.572	252	84526m	11.475	ng	
90) Benzo(a)pyrene	25.465	252	194594	27.027	ng	98
91) Dibenzo(a,h)anthracene	29.790	278	33720	4.534	ng	95
92) Benzo(g,h,i)perylene	31.012	276	122487	16.856	ng	# 98

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

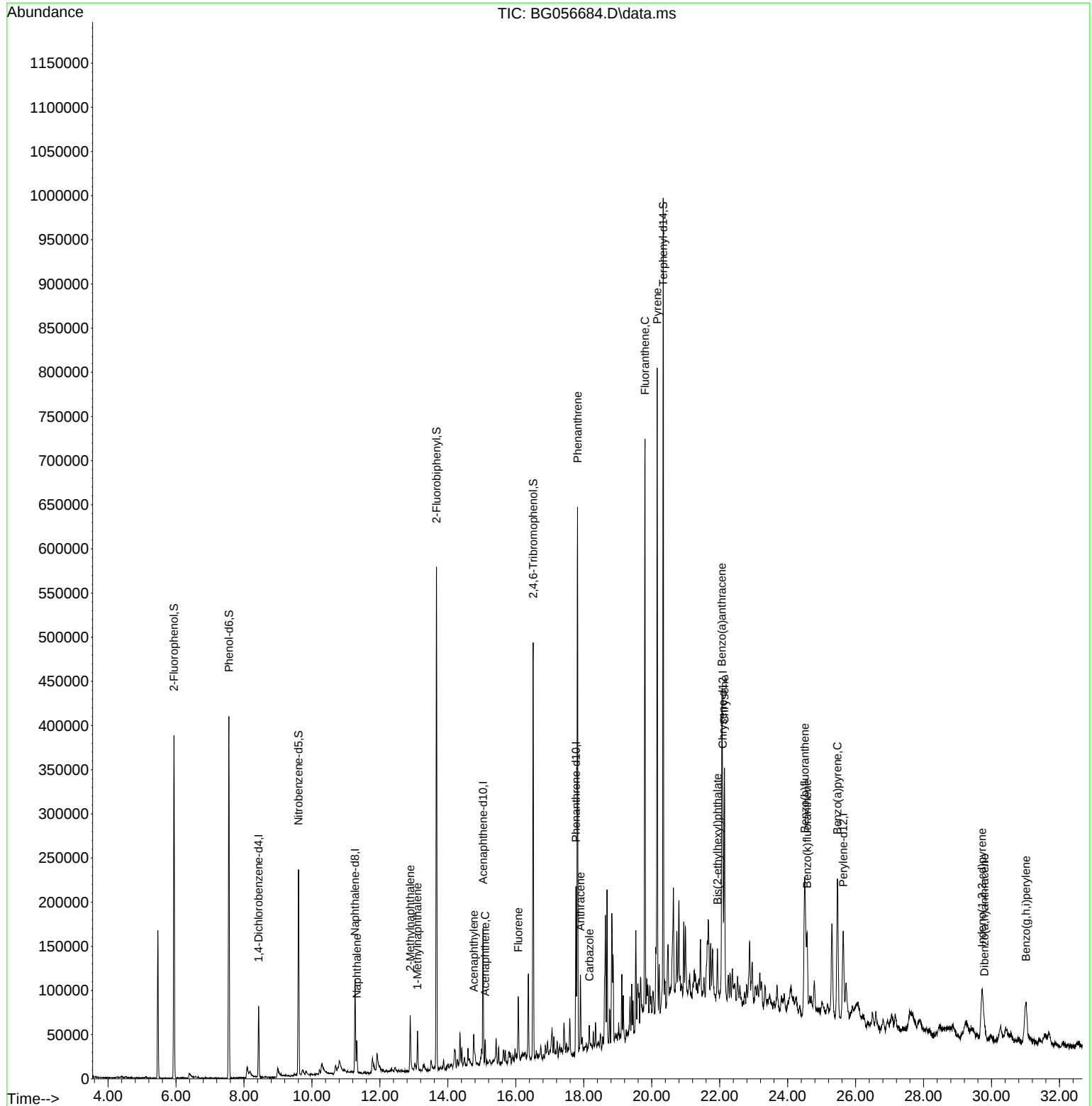
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG022123\
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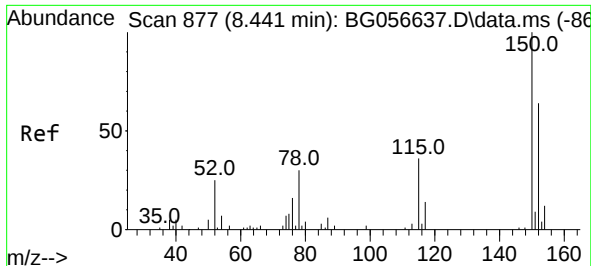
Instrument :
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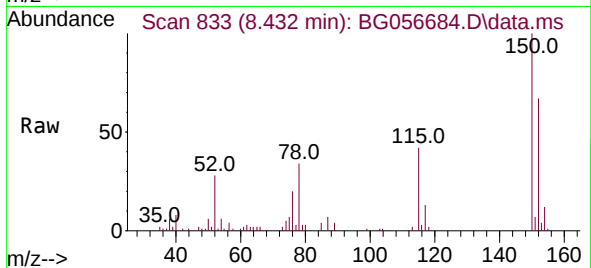
Reviewed By : Christian Giraldo 02/22/2023
Supervised By : Jagrut Upadhyay 02/22/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.432 min Scan# 84
Delta R.T. 0.003 min
Lab File: BG056684.D
Acq: 21 Feb 2023 14:19

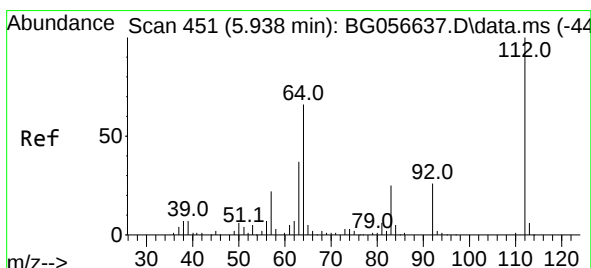
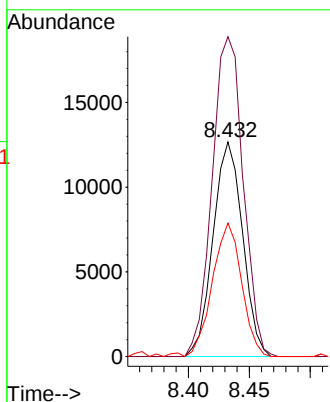
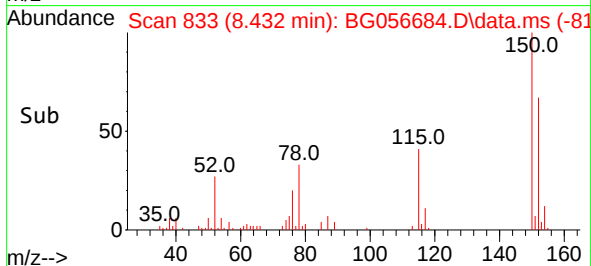
Instrument :
BNA_G
ClientSampleId :
SB-01-4.0-6.0-DUP



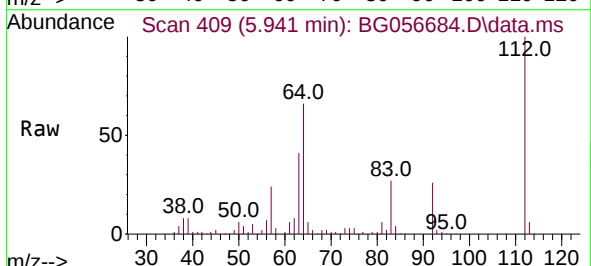
Tgt Ion:152 Resp: 2138
Ion Ratio Lower Upper
152 100
150 149.1 124.8 187.2
115 62.2 44.7 67.1

Manual Integrations
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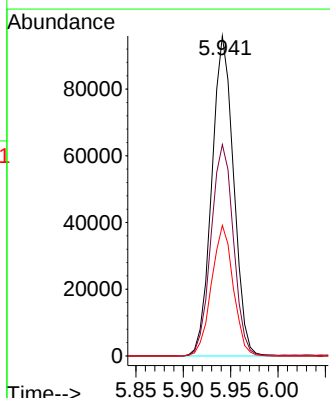
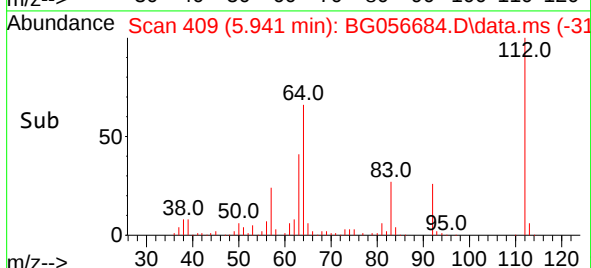
Reviewed By :Christian Giraldo 02/22/2023
Supervised By :Jagrut Upadhyay 02/22/2023

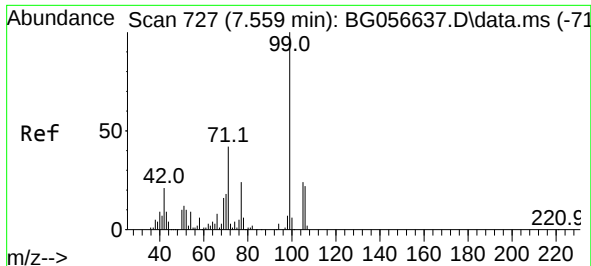


#5
2-Fluorophenol
Concen: 116.879 ng
RT: 5.941 min Scan# 409
Delta R.T. 0.009 min
Lab File: BG056684.D
Acq: 21 Feb 2023 14:19



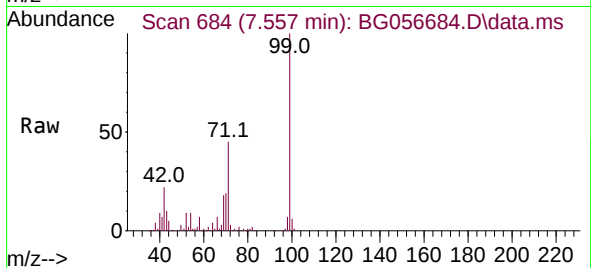
Tgt Ion:112 Resp: 153588
Ion Ratio Lower Upper
112 100
64 66.0 52.6 78.8
63 40.8 29.8 44.6





#7
Phenol-d6
Concen: 113.134 ng
RT: 7.557 min Scan# 684
Delta R.T. 0.003 min
Lab File: BG056684.D
Acq: 21 Feb 2023 14:19

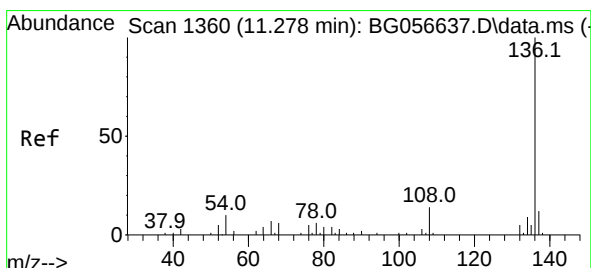
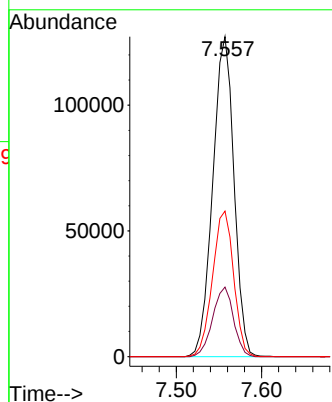
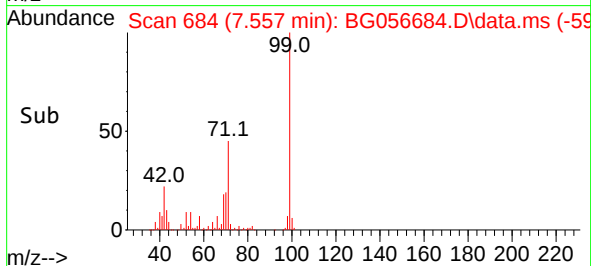
Instrument :
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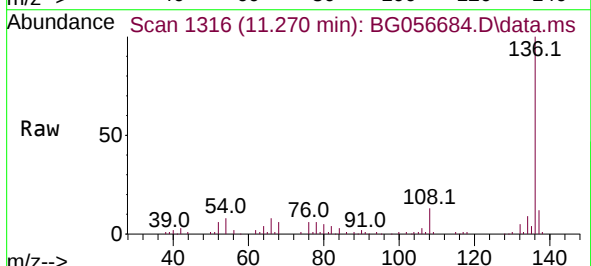
Tgt Ion: 99 Resp: 219604
Ion Ratio Lower Upper
99 100
42 21.7 16.8 25.2
71 45.5 33.9 50.9

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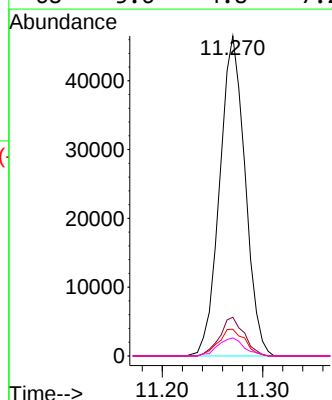
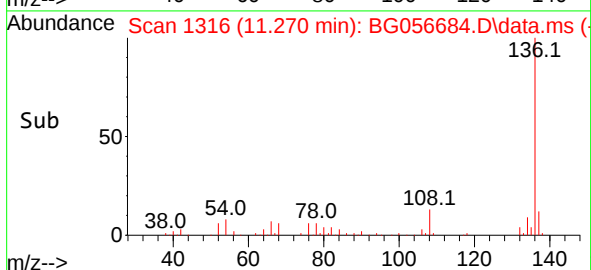
Reviewed By :Christian Giraldo 02/22/2023
Supervised By :Jagrut Upadhyay 02/22/2023

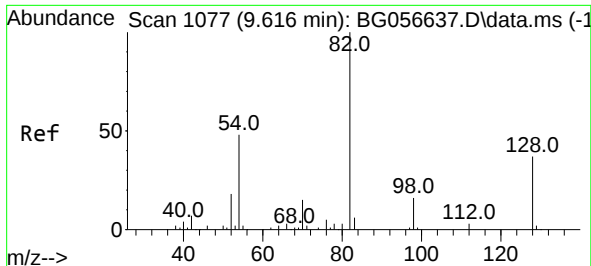


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.270 min Scan# 1316
Delta R.T. -0.002 min
Lab File: BG056684.D
Acq: 21 Feb 2023 14:19



Tgt Ion:136 Resp: 81726
Ion Ratio Lower Upper
136 100
137 12.1 9.7 14.5
54 8.3 7.7 11.5
68 5.6 4.8 7.2





#23

Nitrobenzene-d5

Concen: 90.493 ng

RT: 9.608 min Scan# 1077

Delta R.T. 0.003 min

Lab File: BG056684.D

Acq: 21 Feb 2023 14:19

Instrument :

BNA_G

ClientSampleId :

SB-01-4.0-6.0-DUP

Tgt Ion: 82 Resp: 14444

Ion Ratio Lower Upper

82 100

128 37.4 29.4 44.2

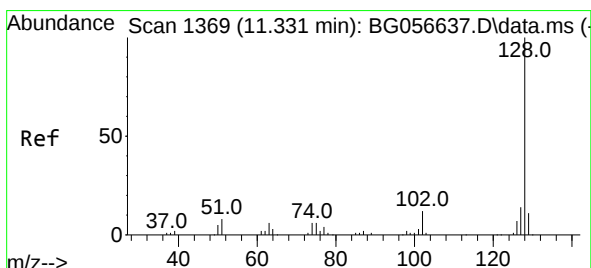
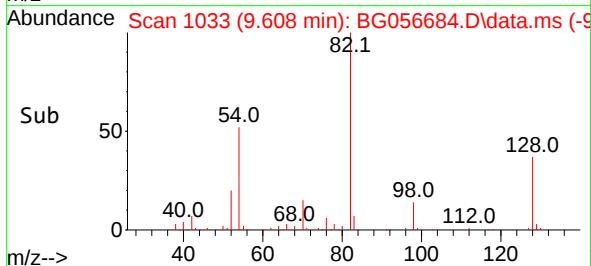
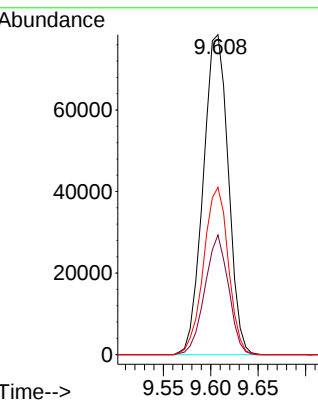
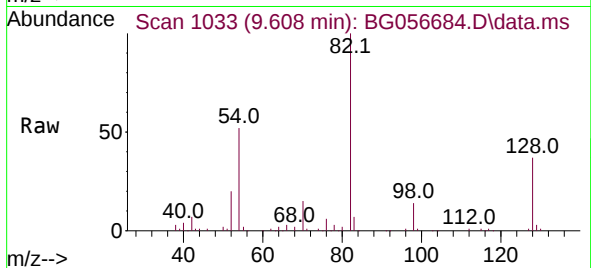
54 52.3 37.8 56.6

Manual Integrations

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#31

Naphthalene

Concen: 6.447 ng

RT: 11.323 min Scan# 1325

Delta R.T. 0.003 min

Lab File: BG056684.D

Acq: 21 Feb 2023 14:19

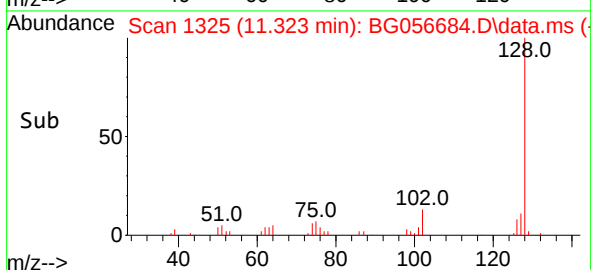
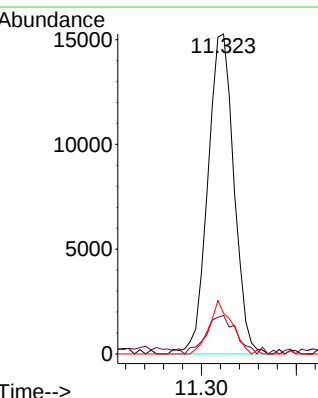
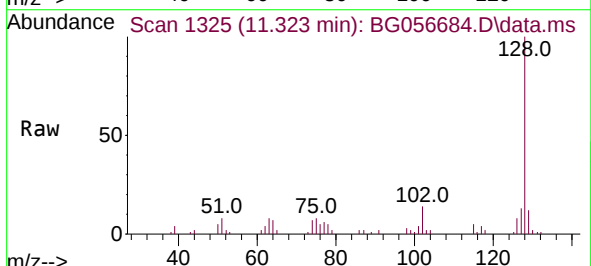
Tgt Ion:128 Resp: 29202

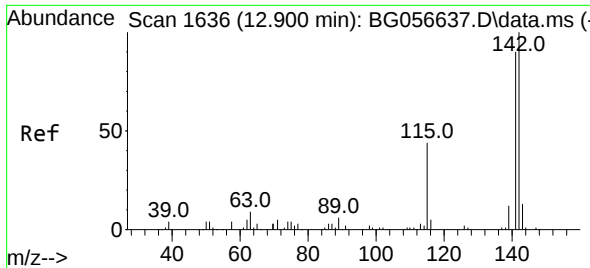
Ion Ratio Lower Upper

128 100

129 12.0 8.7 13.1

127 12.7 10.9 16.3





#37
2-Methylnaphthalene
Concen: 5.656 ng
RT: 12.892 min Scan# 1159
Delta R.T. -0.002 min
Lab File: BG056684.D
Acq: 21 Feb 2023 14:19

Instrument :

BNA_G

ClientSampleId :

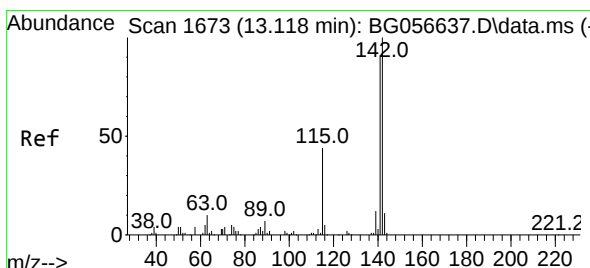
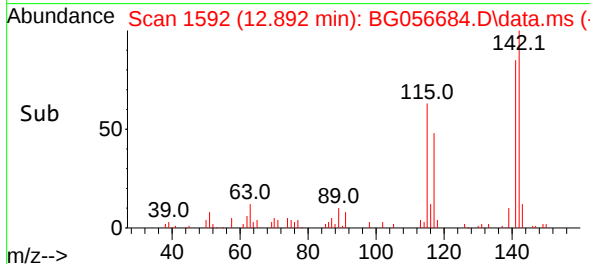
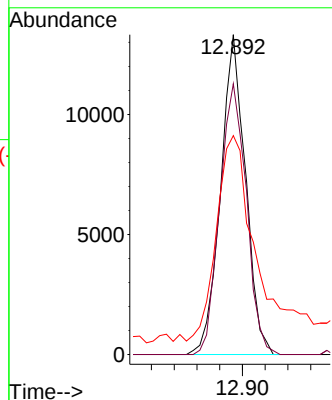
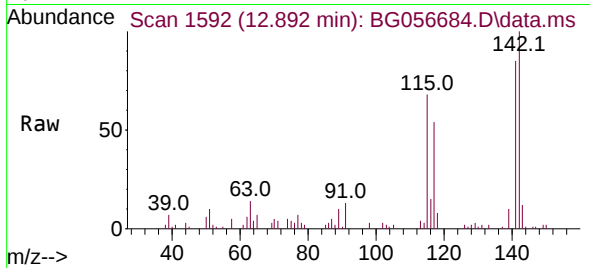
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Tgt Ion:142 Resp: 20226
Ion Ratio Lower Upper
142 100
141 84.6 71.9 107.9
115 68.4 35.1 52.7

Manual Integrations

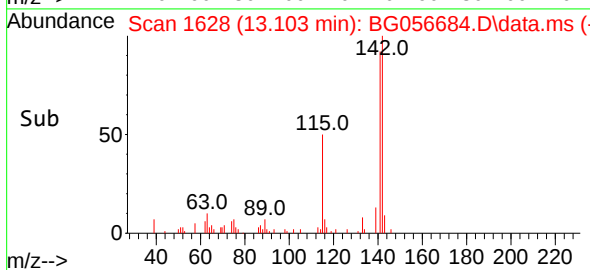
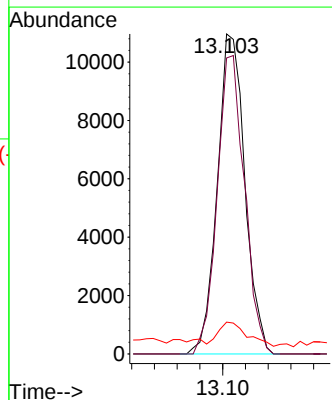
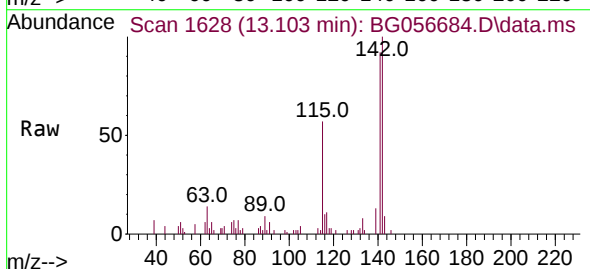
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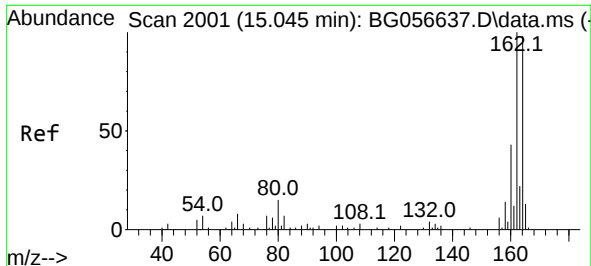
Reviewed By :Christian Giraldo 02/22/2023
Supervised By :Jagrut Upadhyay 02/22/2023



#38
1-Methylnaphthalene
Concen: 5.522 ng
RT: 13.103 min Scan# 1628
Delta R.T. -0.008 min
Lab File: BG056684.D
Acq: 21 Feb 2023 14:19

Tgt Ion:142 Resp: 18427
Ion Ratio Lower Upper
142 100
141 92.5 72.7 109.1
116 9.9 4.2 6.4





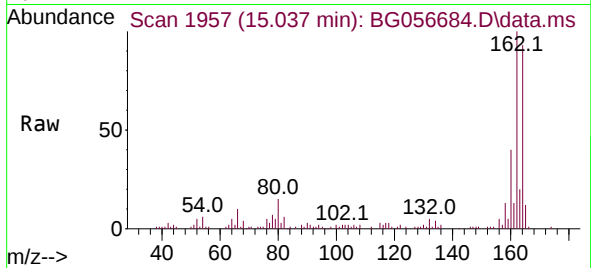
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 15.037 min Scan# 1957
Delta R.T. 0.003 min
Lab File: BG056684.D
Acq: 21 Feb 2023 14:19

Instrument :

BNA_G

ClientSampleId :

SB-01-4.0-6.0-DUP

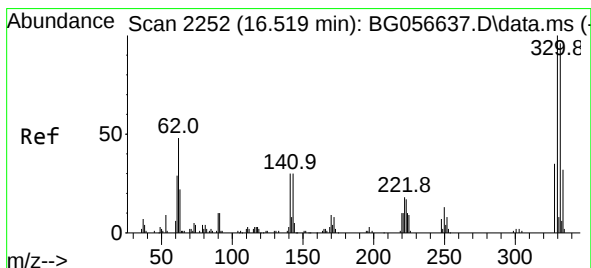
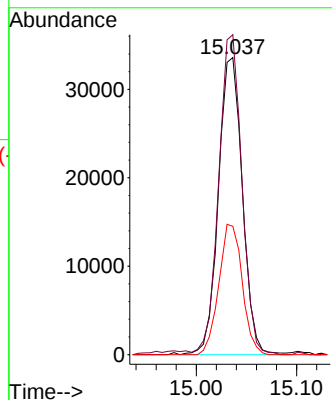
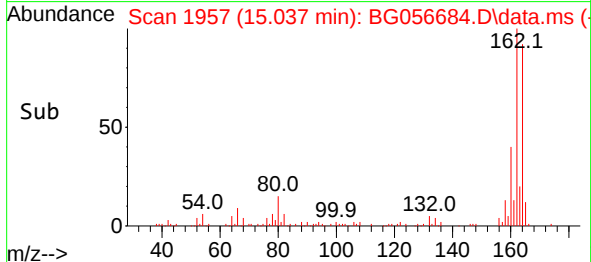


Tgt Ion:164 Resp: 55769
Ion Ratio Lower Upper
164 100
162 107.7 81.3 121.9
160 43.2 35.2 52.8

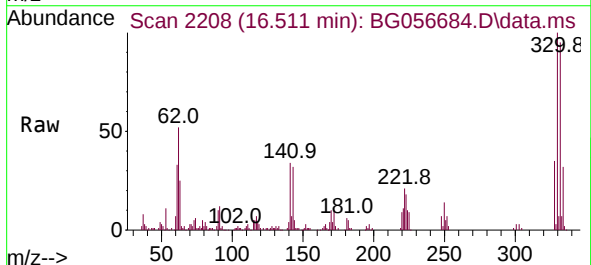
Manual Integrations

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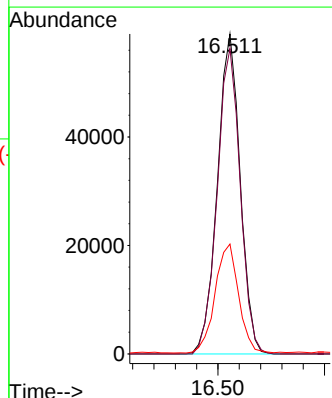
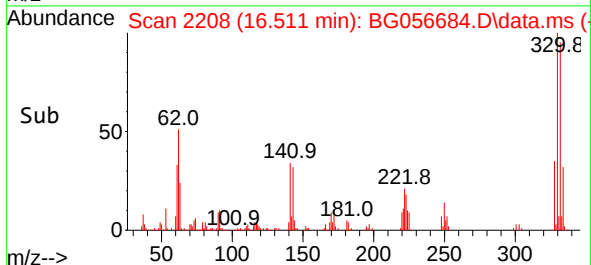
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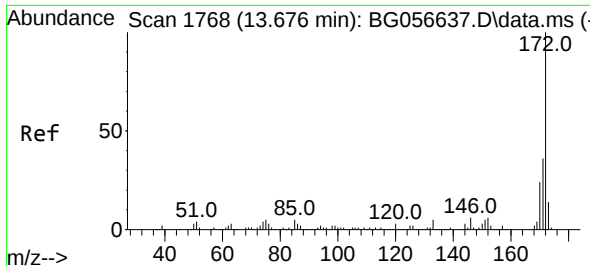


#42
2,4,6-Tribromophenol
Concen: 115.068 ng
RT: 16.511 min Scan# 2208
Delta R.T. -0.002 min
Lab File: BG056684.D
Acq: 21 Feb 2023 14:19



Tgt Ion:330 Resp: 87860
Ion Ratio Lower Upper
330 100
332 96.3 75.7 113.5
141 35.2 24.6 37.0





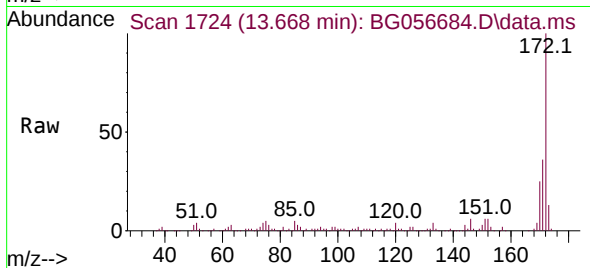
#45
2-Fluorobiphenyl
Concen: 71.769 ng
RT: 13.668 min Scan# 11
Delta R.T. 0.003 min
Lab File: BG056684.D
Acq: 21 Feb 2023 14:19

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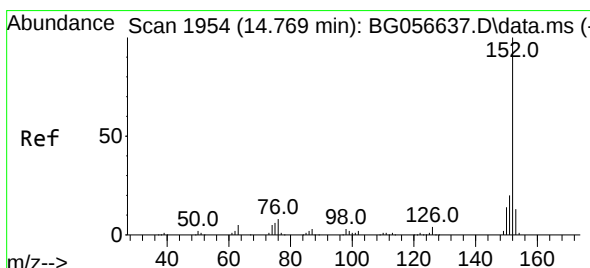
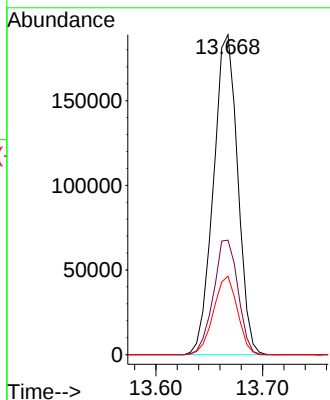
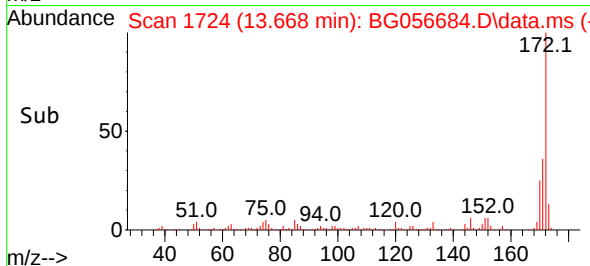


Tgt Ion:172 Resp: 298904
Ion Ratio Lower Upper
172 100
171 35.8 28.6 43.0
170 24.5 19.4 29.0

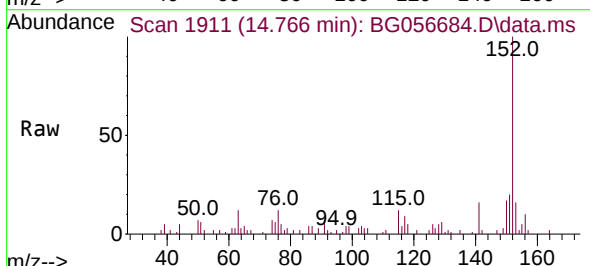
Manual Integrations

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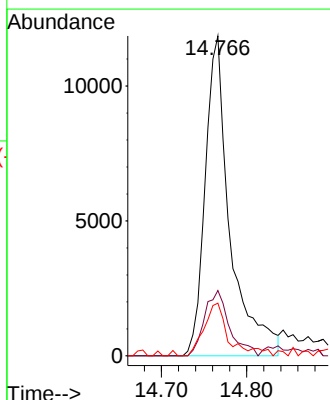
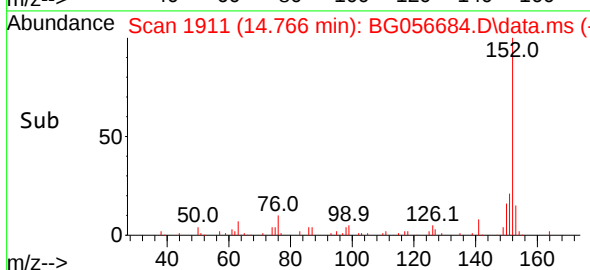
Reviewed By :Christian Giraldo 02/22/2023
Supervised By :Jagrut Upadhyay 02/22/2023

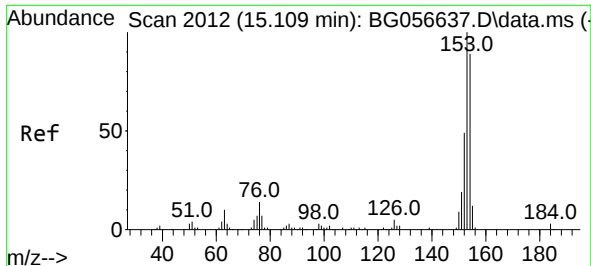


#49
Acenaphthylene
Concen: 4.416 ng
RT: 14.766 min Scan# 1911
Delta R.T. 0.003 min
Lab File: BG056684.D
Acq: 21 Feb 2023 14:19



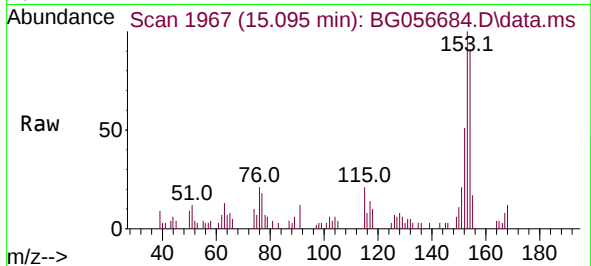
Tgt Ion:152 Resp: 23987
Ion Ratio Lower Upper
152 100
151 20.4 15.6 23.4
153 16.5 10.3 15.5#





#52
Acenaphthene
Concen: 2.704 ng
RT: 15.095 min Scan# 1967
Delta R.T. -0.002 min
Lab File: BG056684.D
Acq: 21 Feb 2023 14:19

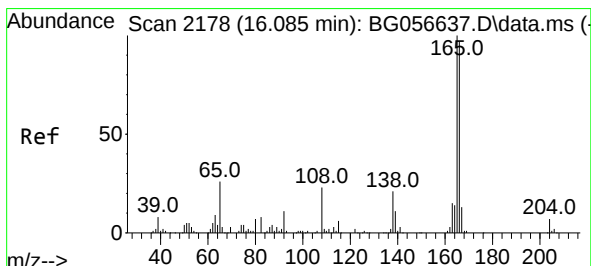
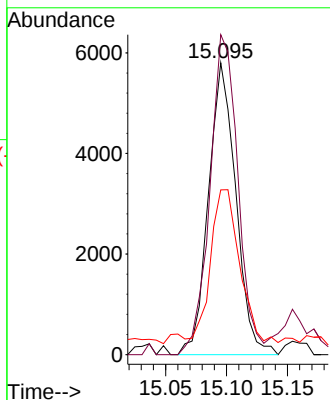
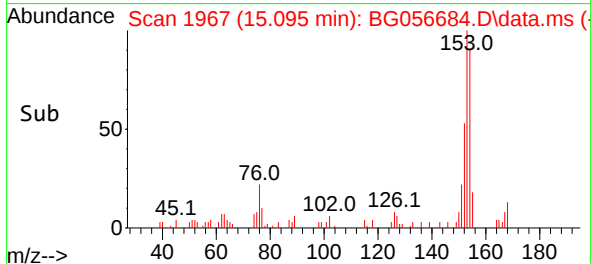
Instrument :
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ClientSampleId :
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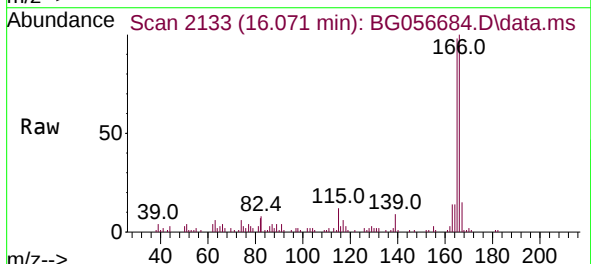
Tgt Ion:154 Resp: 9060
Ion Ratio Lower Upper
154 100
153 109.7 89.5 134.3
152 56.4 43.7 65.5

Manual Integrations
APPROVED

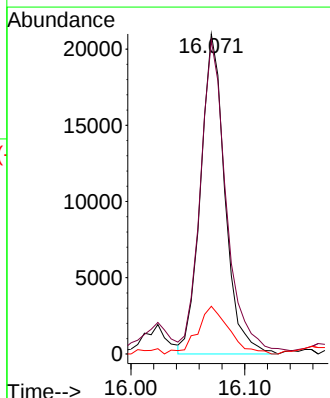
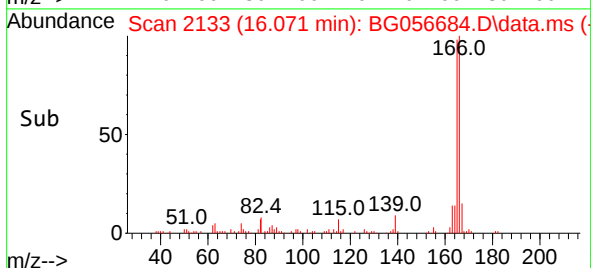
Reviewed By :Christian Giraldo 02/22/2023
Supervised By :Jagrut Upadhyay 02/22/2023

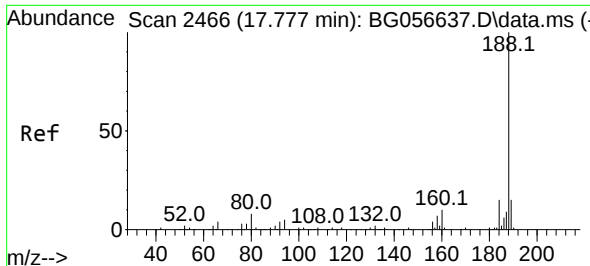


#58
Fluorene
Concen: 6.949 ng
RT: 16.071 min Scan# 2133
Delta R.T. -0.002 min
Lab File: BG056684.D
Acq: 21 Feb 2023 14:19



Tgt Ion:166 Resp: 31100
Ion Ratio Lower Upper
166 100
165 97.9 82.9 124.3
167 14.9 11.1 16.7





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.769 min Scan# 2466
Delta R.T. -0.002 min
Lab File: BG056684.D
Acq: 21 Feb 2023 14:19

Instrument :

BNA_G

ClientSampleId :

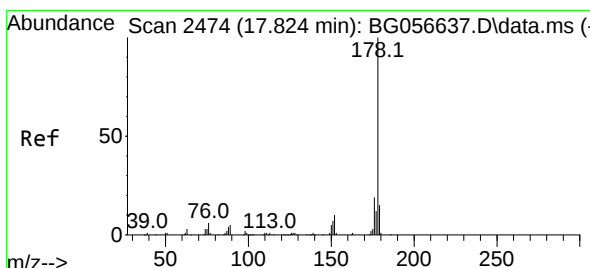
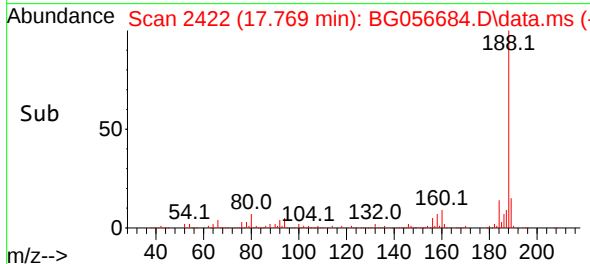
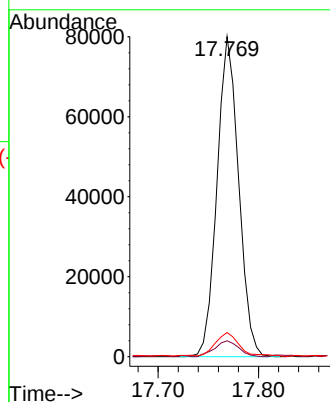
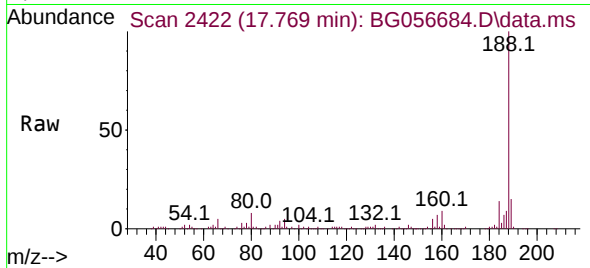
SB-01-4.0-6.0-DUP

Tgt Ion:188 Resp: 119818
Ion Ratio Lower Upper
188 100
94 4.9 4.0 6.0
80 7.5 6.3 9.5

Manual Integrations

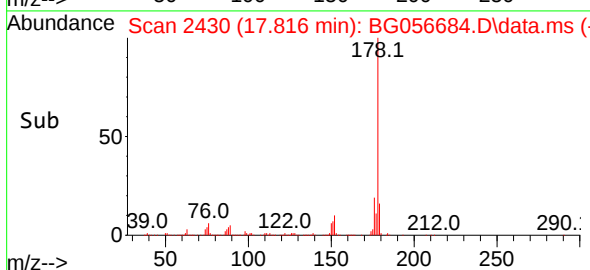
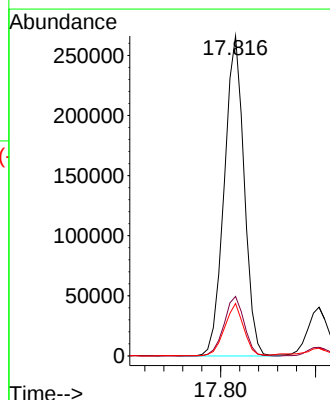
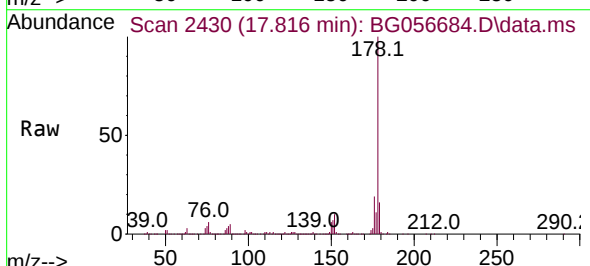
APPROVED

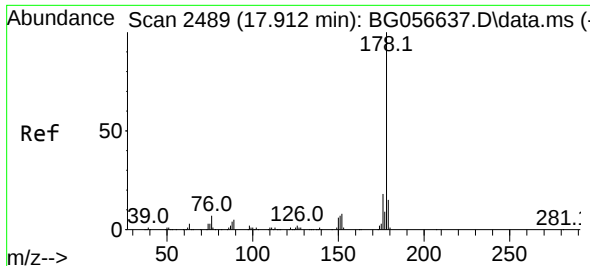
Reviewed By :Christian Giraldo 02/22/2023
Supervised By :Jagrut Upadhyay 02/22/2023



#71
Phenanthrene
Concen: 59.389 ng
RT: 17.816 min Scan# 2430
Delta R.T. 0.003 min
Lab File: BG056684.D
Acq: 21 Feb 2023 14:19

Tgt Ion:178 Resp: 387140
Ion Ratio Lower Upper
178 100
176 18.6 15.4 23.2
179 16.4 12.2 18.4





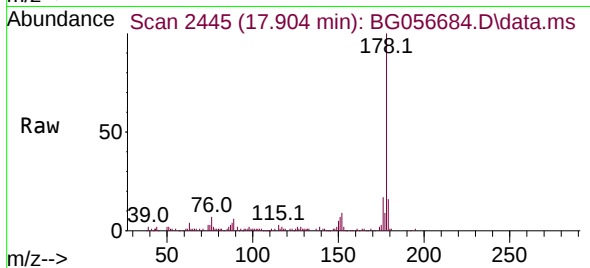
#72
 Anthracene
 Concen: 8.849 ng
 RT: 17.904 min Scan# 2489
 Delta R.T. -0.002 min
 Lab File: BG056684.D
 Acq: 21 Feb 2023 14:19

Instrument :

BNA_G

ClientSampleId :

SB-01-4.0-6.0-DUP

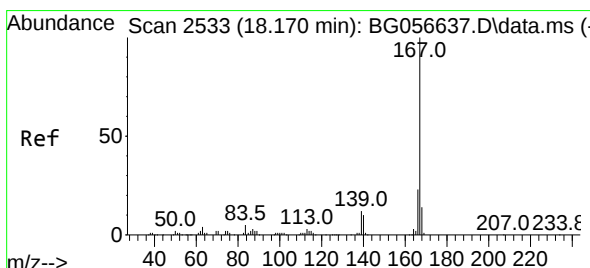
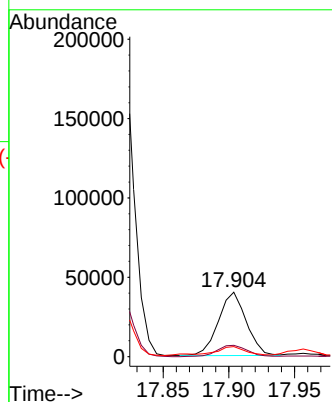
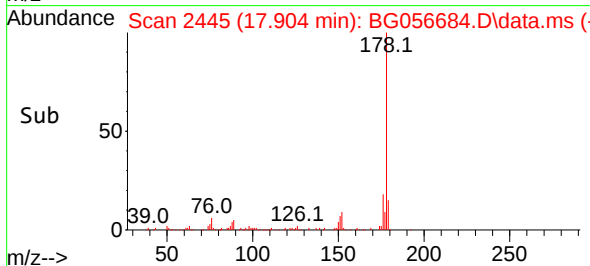


Tgt Ion:178 Resp: 59026
 Ion Ratio Lower Upper
 178 100
 176 17.5 14.3 21.5
 179 15.7 12.2 18.4

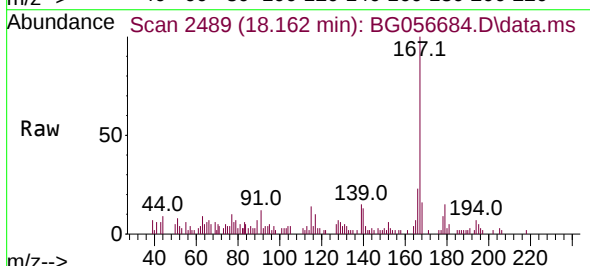
Manual Integrations

APPROVED

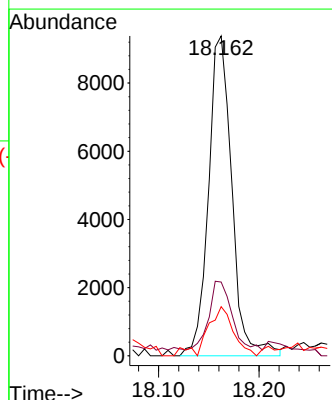
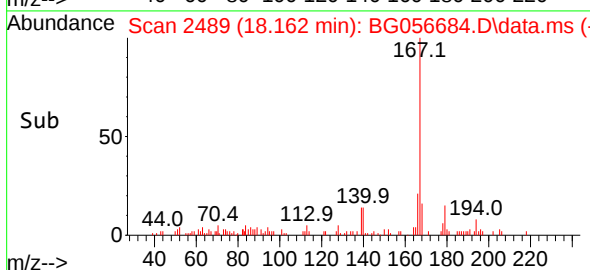
Reviewed By :Christian Giraldo 02/22/2023
 Supervised By :Jagrut Upadhyay 02/22/2023

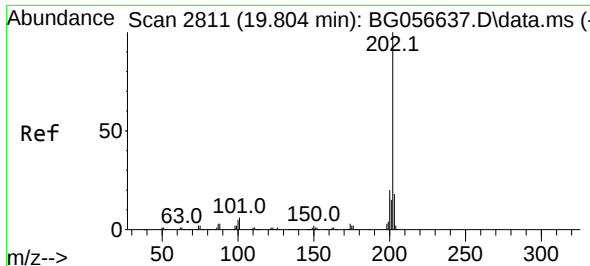


#73
 Carbazole
 Concen: 2.646 ng
 RT: 18.162 min Scan# 2489
 Delta R.T. -0.002 min
 Lab File: BG056684.D
 Acq: 21 Feb 2023 14:19



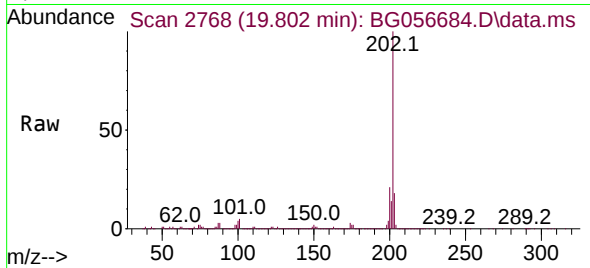
Tgt Ion:167 Resp: 15213
 Ion Ratio Lower Upper
 167 100
 166 23.1 18.1 27.1
 139 15.4 9.4 14.0#





#75
Fluoranthene
Concen: 49.572 ng
RT: 19.802 min Scan# 21
Delta R.T. 0.003 min
Lab File: BG056684.D
Acq: 21 Feb 2023 14:19

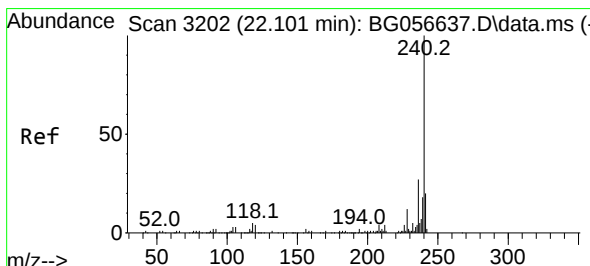
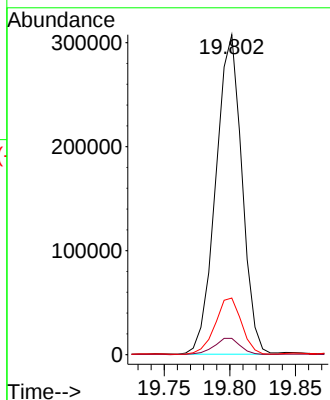
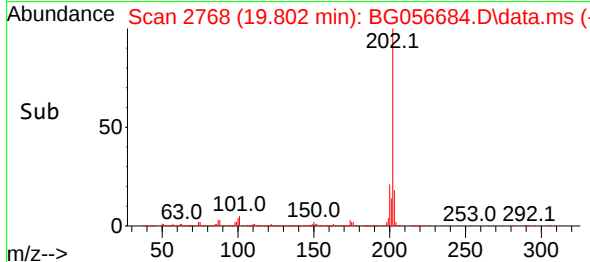
Instrument :
BNA_G
ClientSampleId :
SB-01-4.0-6.0-DUP



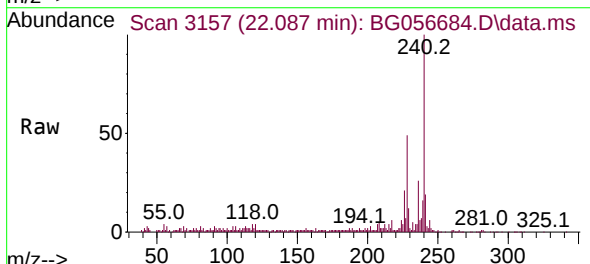
Tgt Ion:202 Resp: 426383
Ion Ratio Lower Upper
202 100
101 5.1 0.0 25.8
203 17.7 0.0 37.6

Manual Integrations
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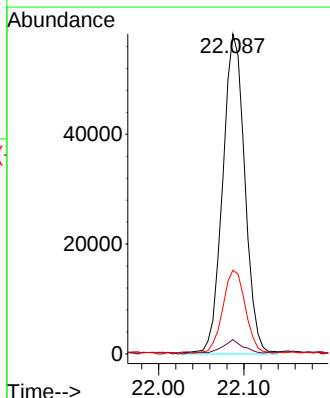
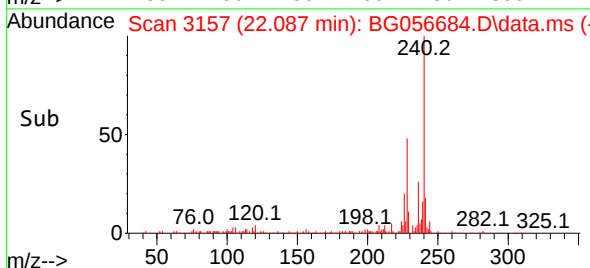
Reviewed By :Christian Giraldo 02/22/2023
Supervised By :Jagrut Upadhyay 02/22/2023

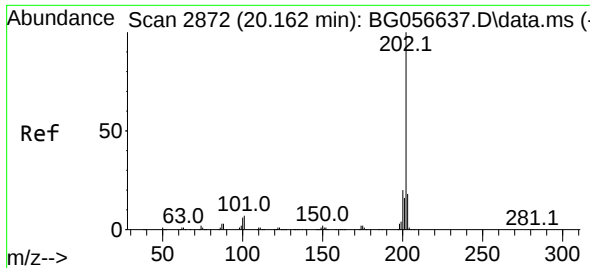


#76
Chrysene-d12
Concen: 20.000 ng
RT: 22.087 min Scan# 3157
Delta R.T. -0.002 min
Lab File: BG056684.D
Acq: 21 Feb 2023 14:19



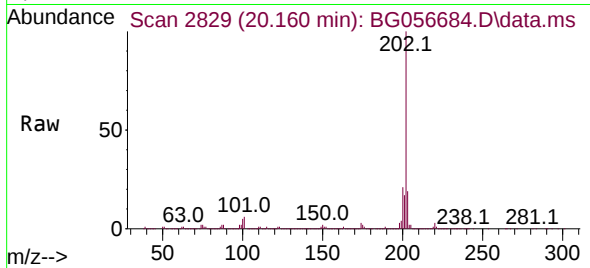
Tgt Ion:240 Resp: 105143
Ion Ratio Lower Upper
240 100
120 4.5 3.5 5.3
236 26.1 21.5 32.3





#78
Pyrene
Concen: 57.381 ng
RT: 20.160 min Scan# 2872
Delta R.T. 0.003 min
Lab File: BG056684.D
Acq: 21 Feb 2023 14:19

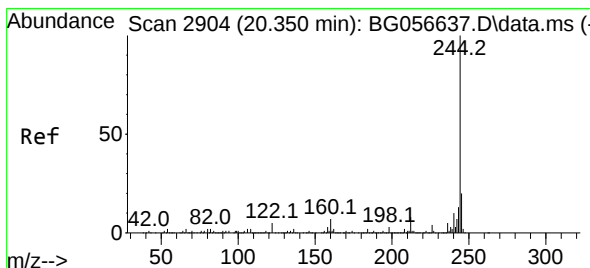
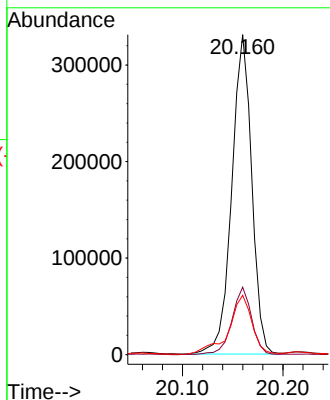
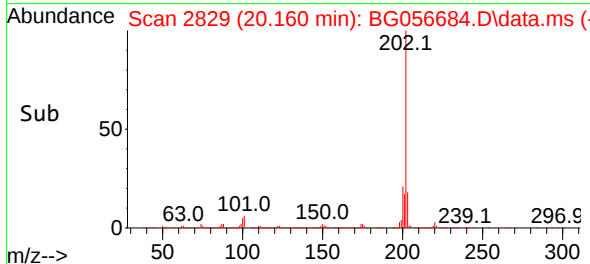
Instrument :
BNA_G
ClientSampleId :
SB-01-4.0-6.0-DUP



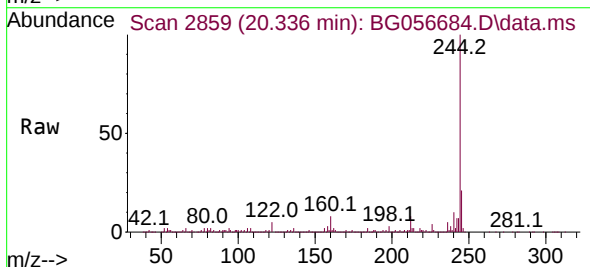
Tgt Ion:202 Resp: 455642
Ion Ratio Lower Upper
202 100
200 21.1 15.8 23.8
203 18.5 14.2 21.4

Manual Integrations
APPROVED

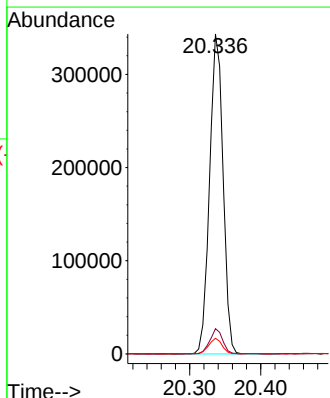
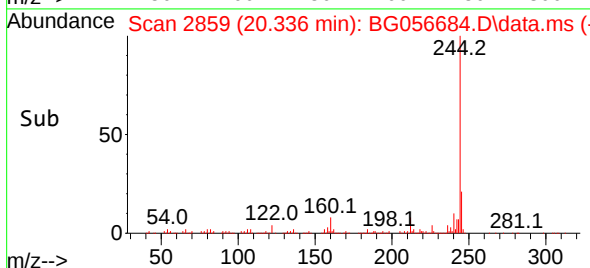
Reviewed By :Christian Giraldo 02/22/2023
Supervised By :Jagrut Upadhyay 02/22/2023

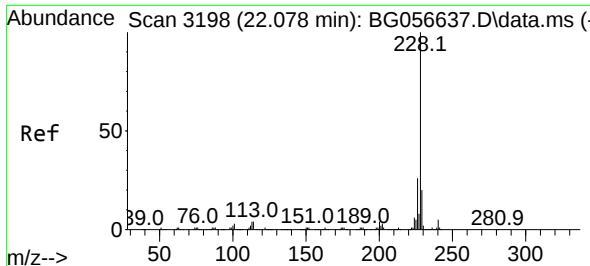


#79
Terphenyl-d14
Concen: 70.414 ng
RT: 20.336 min Scan# 2859
Delta R.T. -0.002 min
Lab File: BG056684.D
Acq: 21 Feb 2023 14:19



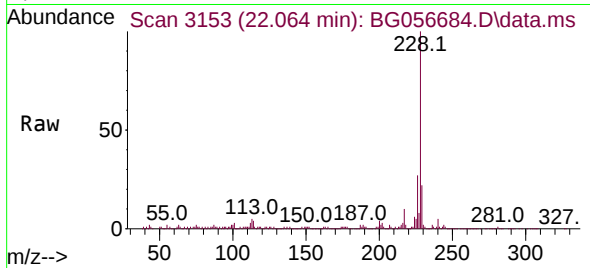
Tgt Ion:244 Resp: 452508
Ion Ratio Lower Upper
244 100
212 7.9 6.0 9.0
122 4.9 3.8 5.8





#81
Benzo(a)anthracene
Concen: 28.371 ng
RT: 22.064 min Scan# 31153
Delta R.T. -0.002 min
Lab File: BG056684.D
Acq: 21 Feb 2023 14:19

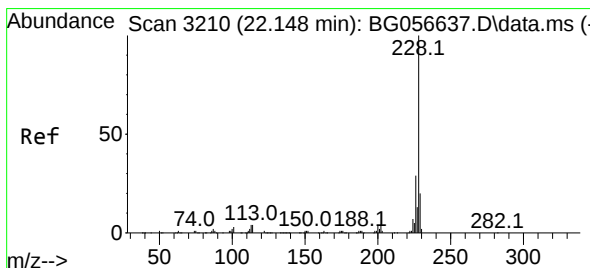
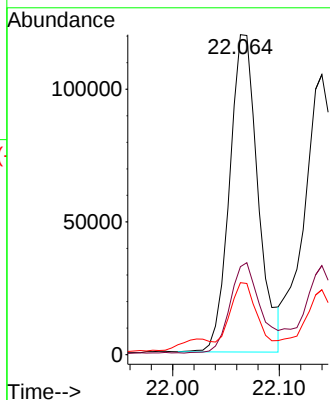
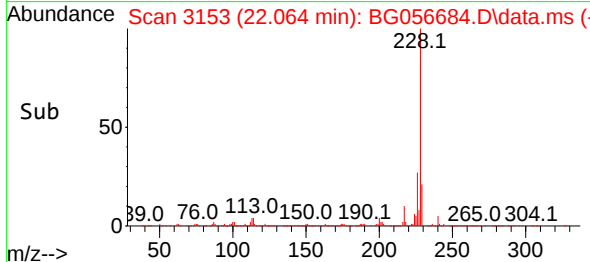
Instrument :
BNA_G
ClientSampleId :
SB-01-4.0-6.0-DUP



Tgt Ion:228 Resp: 221840
Ion Ratio Lower Upper
228 100
226 27.5 20.4 30.6
229 22.5 16.0 24.0

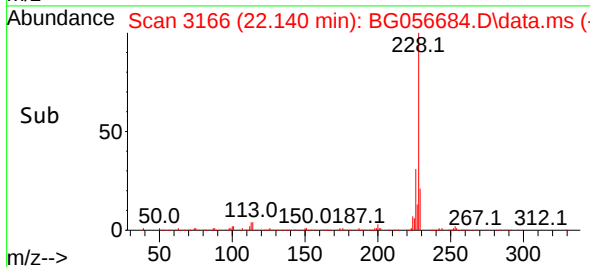
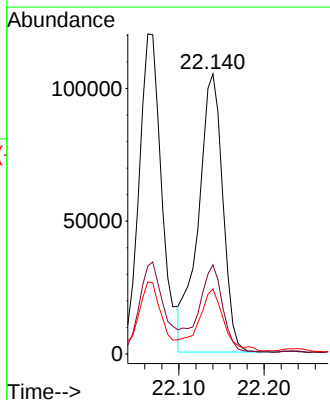
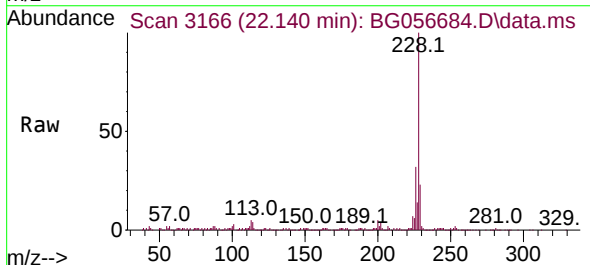
Manual Integrations
APPROVED

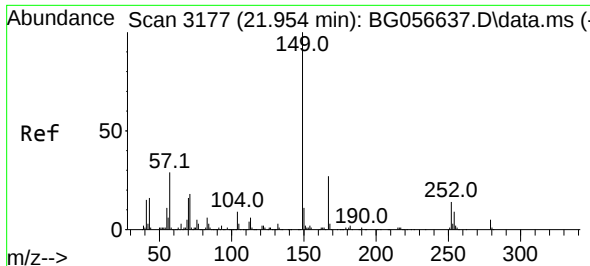
Reviewed By :Christian Giraldo 02/22/2023
Supervised By :Jagrut Upadhyay 02/22/2023



#83
Chrysene
Concen: 28.641 ng
RT: 22.140 min Scan# 3166
Delta R.T. 0.003 min
Lab File: BG056684.D
Acq: 21 Feb 2023 14:19

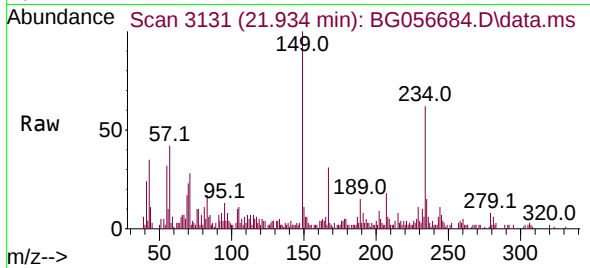
Tgt Ion:228 Resp: 209359
Ion Ratio Lower Upper
228 100
226 31.8 23.0 34.6
229 23.2 15.8 23.8





#84
Bis(2-ethylhexyl)phthalate
Concen: 4.521 ng
RT: 21.934 min Scan# 3177
Delta R.T. -0.002 min
Lab File: BG056684.D
Acq: 21 Feb 2023 14:19

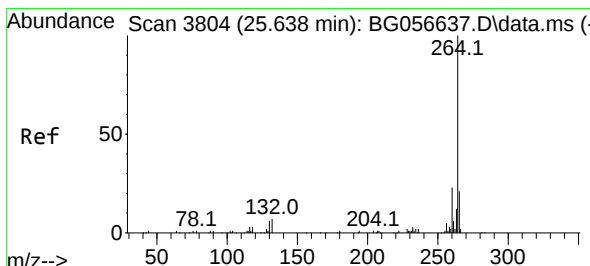
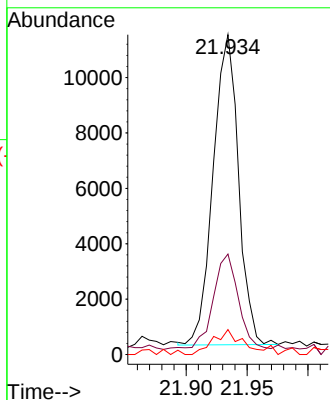
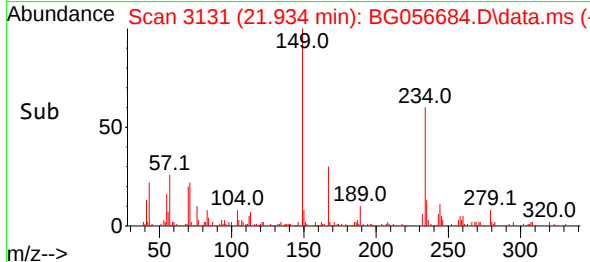
Instrument :
BNA_G
ClientSampleId :
SB-01-4.0-6.0-DUP



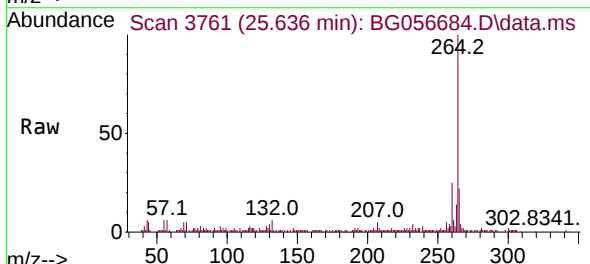
Tgt Ion:149 Resp: 1615
Ion Ratio Lower Upper
149 100
167 31.4 21.4 32.0
279 7.8 4.1 6.1

Manual Integrations
APPROVED

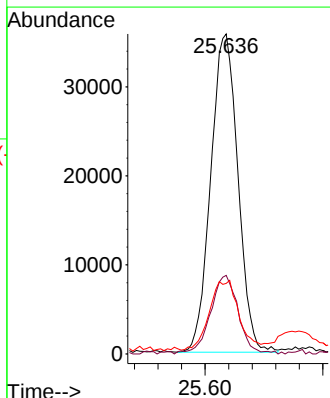
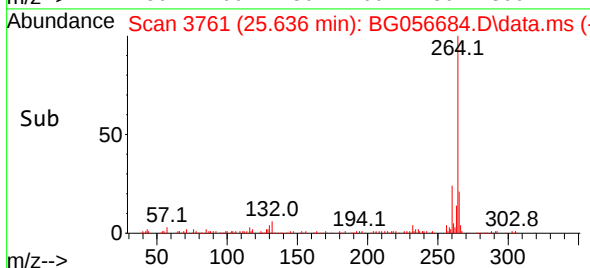
Reviewed By :Christian Giraldo 02/22/2023
Supervised By :Jagrut Upadhyay 02/22/2023

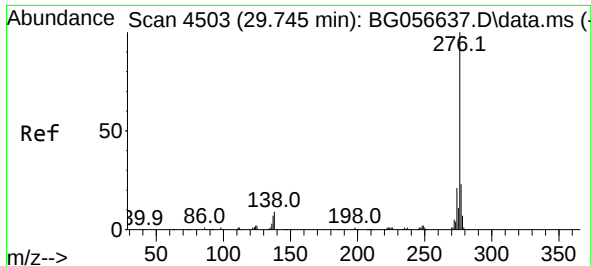


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.636 min Scan# 3761
Delta R.T. 0.015 min
Lab File: BG056684.D
Acq: 21 Feb 2023 14:19



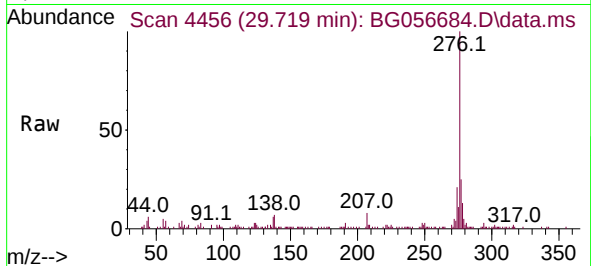
Tgt Ion:264 Resp: 114654
Ion Ratio Lower Upper
264 100
260 24.5 18.6 27.8
265 22.0 17.0 25.4





#87
 Indeno(1,2,3-cd)pyrene
 Concen: 13.668 ng
 RT: 29.719 min Scan# 4456
 Delta R.T. 0.009 min
 Lab File: BG056684.D
 Acq: 21 Feb 2023 14:19

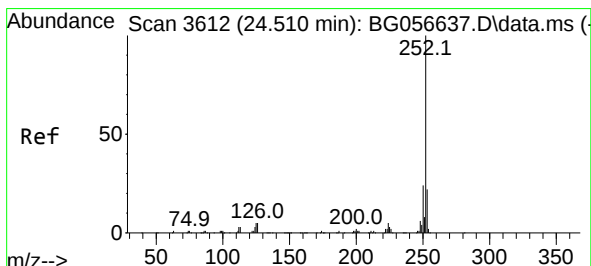
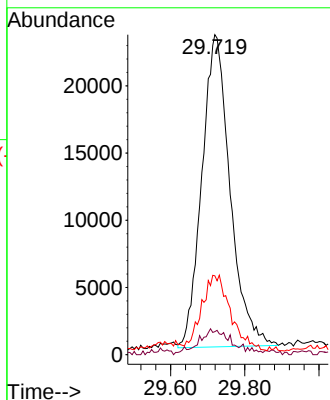
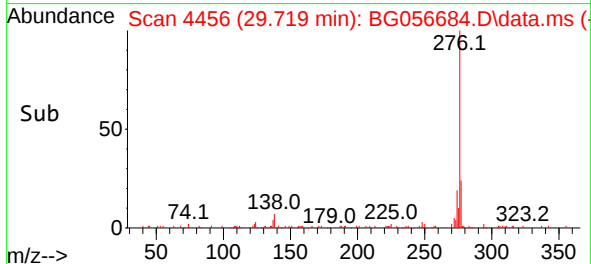
Instrument :
 BNA_G
 ClientSampleId :
 SB-01-4.0-6.0-DUP



Tgt Ion:276 Resp: 12272
 Ion Ratio Lower Upper
 276 100
 138 0.0 3.8 5.8
 277 24.4 20.3 30.5

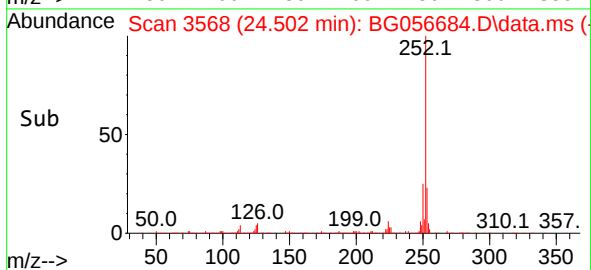
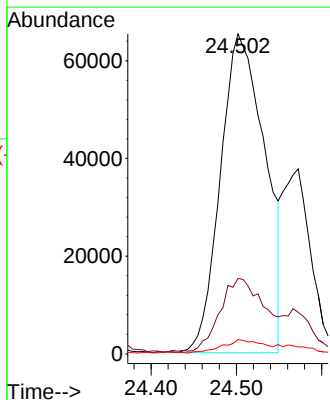
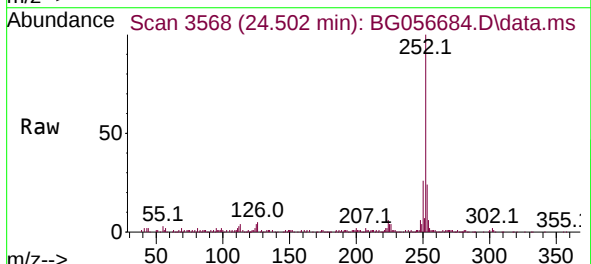
Manual Integrations
 APPROVED

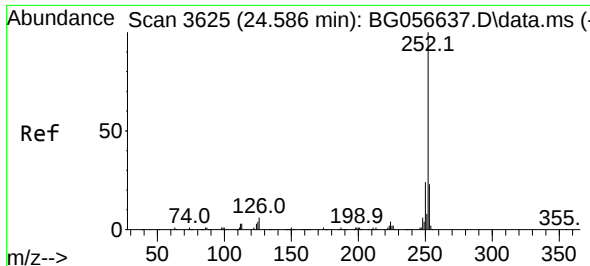
Reviewed By :Christian Giraldo 02/22/2023
 Supervised By :Jagrut Upadhyay 02/22/2023



#88
 Benzo(b)fluoranthene
 Concen: 31.609 ng
 RT: 24.502 min Scan# 3568
 Delta R.T. 0.009 min
 Lab File: BG056684.D
 Acq: 21 Feb 2023 14:19

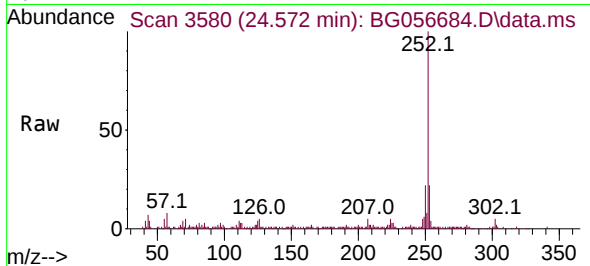
Tgt Ion:252 Resp: 236762
 Ion Ratio Lower Upper
 252 100
 253 23.6 17.3 25.9
 125 4.5 3.7 5.5





#89
Benzo(k)fluoranthene
Concen: 11.475 ng m
RT: 24.572 min Scan# 31
Delta R.T. 0.003 min
Lab File: BG056684.D
Acq: 21 Feb 2023 14:19

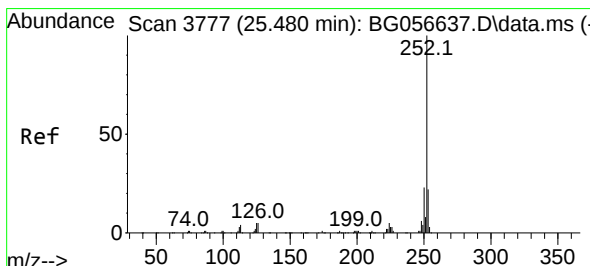
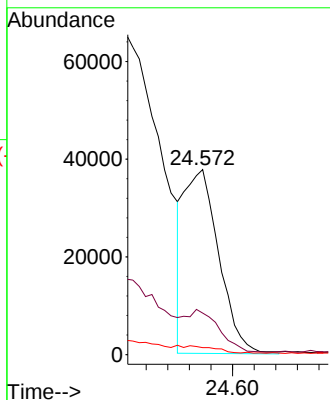
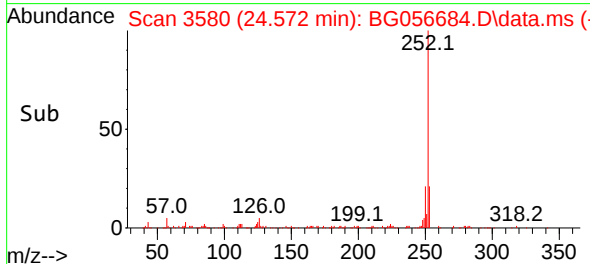
Instrument :
BNA_G
ClientSampleId :
SB-01-4.0-6.0-DUP



Tgt Ion:252 Resp: 84526
Ion Ratio Lower Upper
252 100
253 22.5 18.5 27.7
125 3.7 3.4 5.0

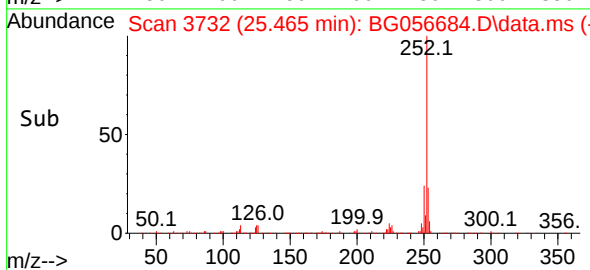
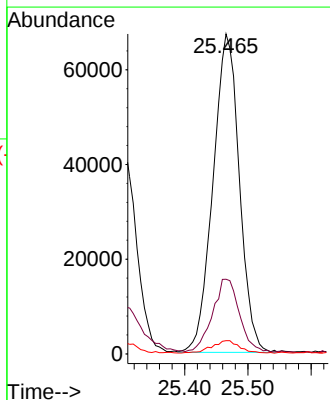
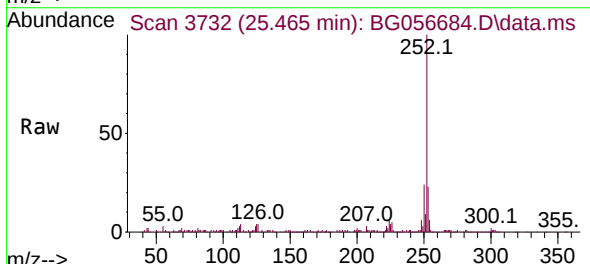
Manual Integrations
APPROVED

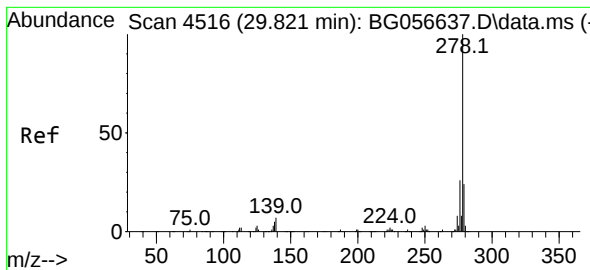
Reviewed By :Christian Giraldo 02/22/2023
Supervised By :Jagrut Upadhyay 02/22/2023



#90
Benzo(a)pyrene
Concen: 27.027 ng
RT: 25.465 min Scan# 3732
Delta R.T. 0.003 min
Lab File: BG056684.D
Acq: 21 Feb 2023 14:19

Tgt Ion:252 Resp: 194594
Ion Ratio Lower Upper
252 100
253 23.4 17.9 26.9
125 4.1 4.0 6.0





#91

Dibenzo(a,h)anthracene

Concen: 4.534 ng

RT: 29.790 min Scan# 4468

Delta R.T. 0.003 min

Lab File: BG056684.D

Acq: 21 Feb 2023 14:19

Instrument :

BNA_G

ClientSampleId :

SB-01-4.0-6.0-DUP

Tgt Ion:278 Resp: 33720

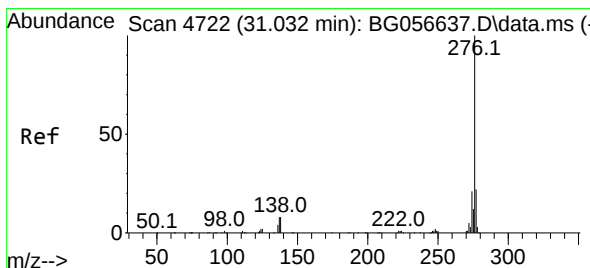
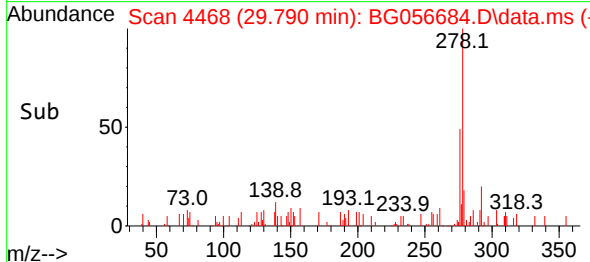
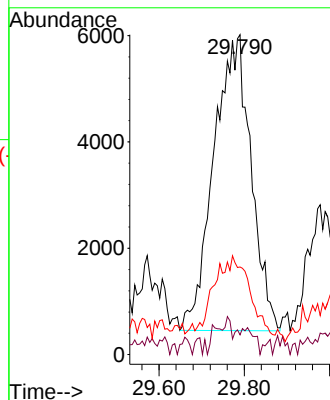
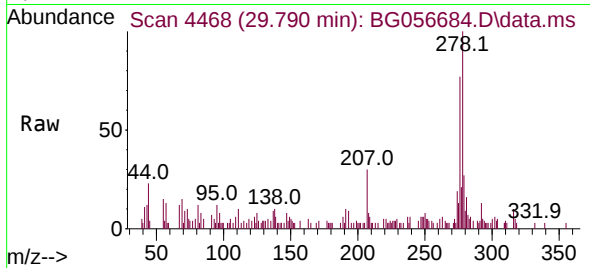
Ion	Ratio	Lower	Upper
278	100		
139	6.1	5.8	8.8
279	27.3	19.6	29.4

Manual Integrations

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#92

Benzo(g,h,i)perylene

Concen: 16.856 ng

RT: 31.012 min Scan# 4676

Delta R.T. 0.015 min

Lab File: BG056684.D

Acq: 21 Feb 2023 14:19

Tgt Ion:276 Resp: 122487

Ion	Ratio	Lower	Upper
276	100		
277	22.4	17.5	26.3
138	5.9	6.4	9.6

