

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG090622\
 Data File : BG054862.D
 Acq On : 6 Sep 2022 22:06
 Operator : CG/JU
 Sample : N4498-01
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 CL-02-090222

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 09/07/2022
 Supervised By : Jagrut Upadhyay 09/07/2022

Quant Time: Sep 07 05:01:46 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG082522.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 25 17:50:55 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.153	152	51411	20.000	ng	0.00
21) Naphthalene-d8	10.979	136	207308	20.000	ng	0.00
39) Acenaphthene-d10	14.786	164	130528	20.000	ng	0.00
64) Phenanthrene-d10	17.536	188	265415	20.000	ng	0.00
76) Chrysene-d12	21.837	240	238932	20.000	ng	0.01
86) Perylene-d12	25.227	264	224378	20.000	ng	# 0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.697	112	334328	113.241	ng	0.01
7) Phenol-d6	7.313	99	453811	112.397	ng	0.02
23) Nitrobenzene-d5	9.328	82	276171	69.935	ng	0.00
42) 2,4,6-Tribromophenol	16.278	330	180941	110.937	ng	0.00
45) 2-Fluorobiphenyl	13.411	172	662113	76.242	ng	0.00
79) Terphenyl-d14	20.133	244	903276	74.906	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	11.032	128	46977	4.224	ng	98
37) 2-Methylnaphthalene	12.624	142	23102	2.963	ng	98
38) 1-Methylnaphthalene	12.841	142	36417m	4.801	ng	
49) Acenaphthylene	14.516	152	111654	9.191	ng	95
52) Acenaphthene	14.851	154	87490	11.212	ng	96
55) Dibenzofuran	15.180	168	80787	7.046	ng	# 96
58) Fluorene	15.832	166	225869	23.383	ng	100
71) Phenanthrene	17.583	178	1628544	115.182	ng	94
72) Anthracene	17.671	178	475792	34.612	ng	100
73) Carbazole	17.935	167	89555	7.071	ng	97
75) Fluoranthene	19.592	202	2039791	118.593	ng	94
78) Pyrene	19.951	202	1925540m	115.575	ng	
81) Benzo(a)anthracene	21.813	228	1008843	62.273	ng	96
83) Chrysene	21.884	228	937987m	60.555	ng	
87) Indeno(1,2,3-cd)pyrene	29.134	276	323839	19.011	ng	94
88) Benzo(b)fluoranthene	24.152	252	1032894	73.383	ng	98
89) Benzo(k)fluoranthene	24.204	252	409626m	28.917	ng	
90) Benzo(a)pyrene	25.068	252	836804	69.586	ng	98
91) Dibenzo(a,h)anthracene	29.181	278	76405	5.506	ng	# 79
92) Benzo(g,h,i)perylene	30.356	276	266971	19.043	ng	95

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

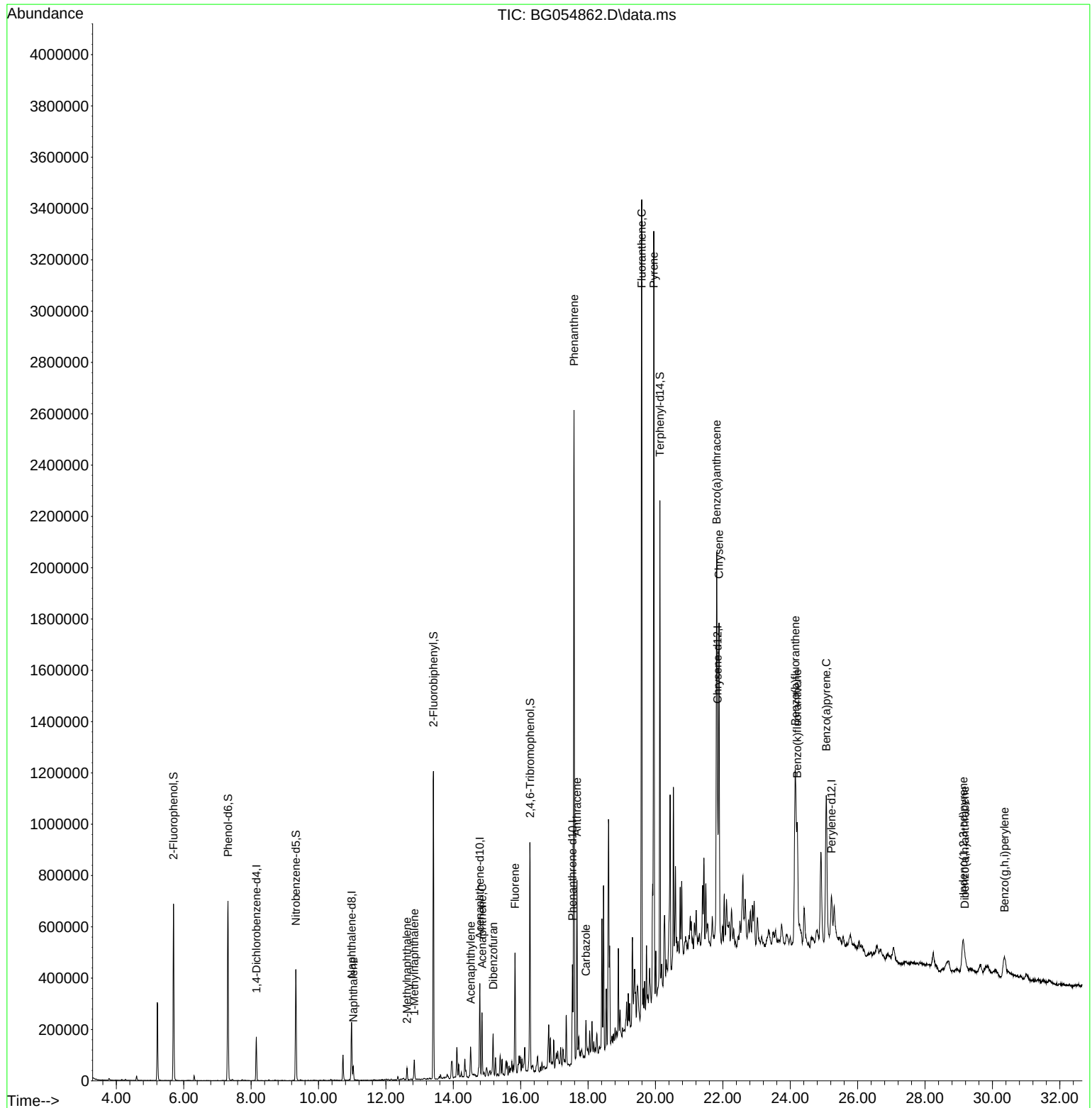
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG090622\
Data File : BG054862.D
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ALS Vial : 14 Sample Multiplier: 1

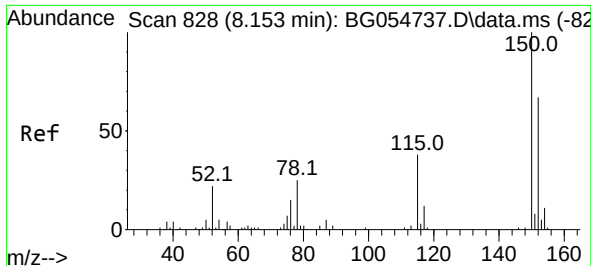
Instrument :
BNA_G
ClientSampleId :
CL-02-090222

Quant Time: Sep 07 05:01:46 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG082522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 25 17:50:55 2022
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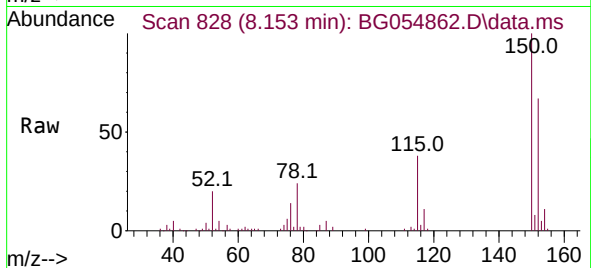
Reviewed By : Christian Giraldo 09/07/2022
Supervised By : Jagrut Upadhyay 09/07/2022





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.153 min Scan# 81
Delta R.T. -0.000 min
Lab File: BG054862.D
Acq: 6 Sep 2022 22:06

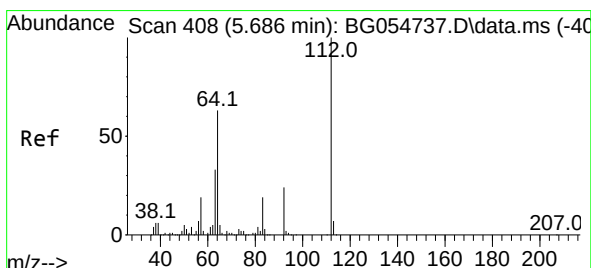
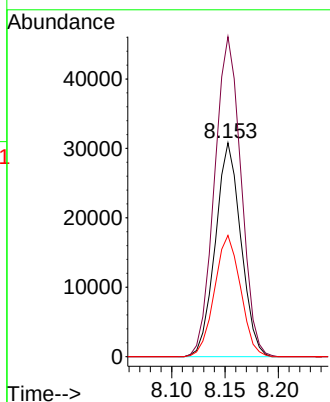
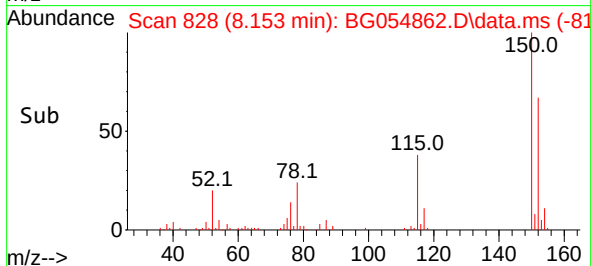
Instrument :
BNA_G
ClientSampleId :
CL-02-090222



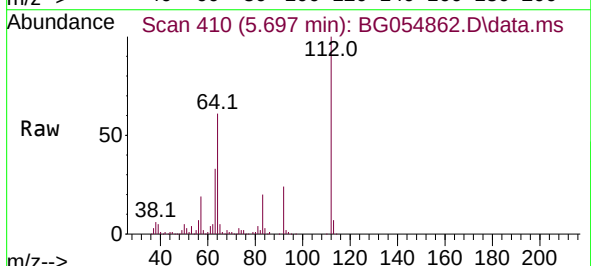
Tgt Ion:152 Resp: 5141
Ion Ratio Lower Upper
152 100
150 149.6 125.2 187.8
115 56.7 47.9 71.9

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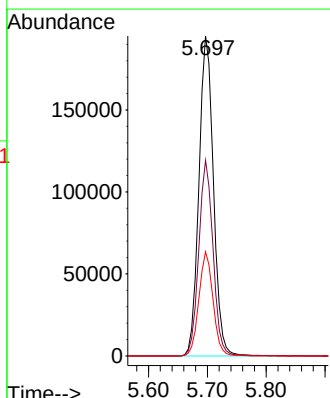
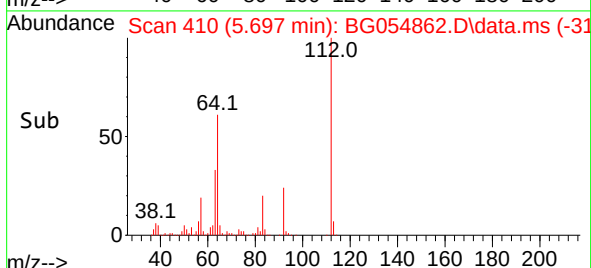
Reviewed By :Christian Giraldo 09/07/2022
Supervised By :Jagrut Upadhyay 09/07/2022

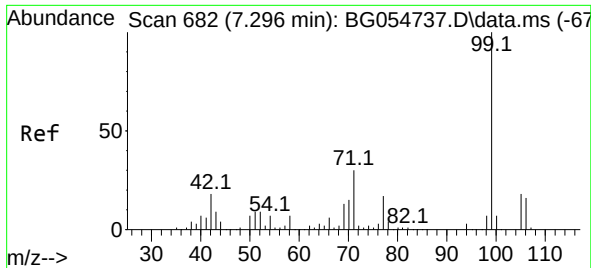


#5
2-Fluorophenol
Concen: 113.241 ng
RT: 5.697 min Scan# 410
Delta R.T. 0.011 min
Lab File: BG054862.D
Acq: 6 Sep 2022 22:06



Tgt Ion:112 Resp: 334328
Ion Ratio Lower Upper
112 100
64 61.1 49.3 73.9
63 32.5 26.3 39.5





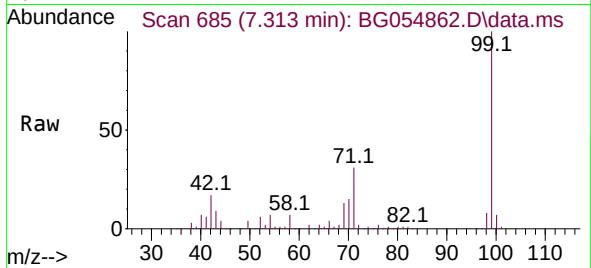
#7
Phenol-d6
Concen: 112.397 ng
RT: 7.313 min Scan# 682
Delta R.T. 0.017 min
Lab File: BG054862.D
Acq: 6 Sep 2022 22:06

Instrument :

BNA_G

ClientSampleId :

CL-02-090222

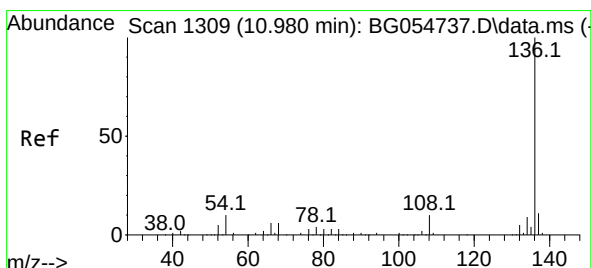
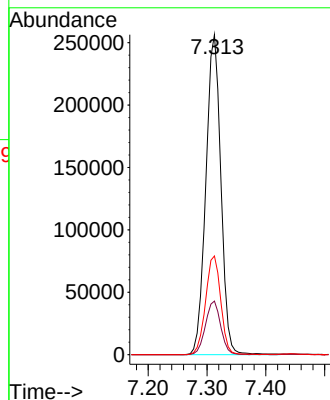
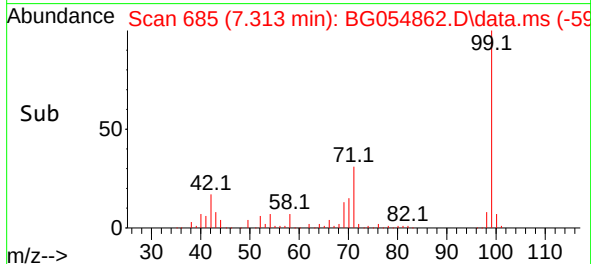


Tgt Ion: 99 Resp: 45381
Ion Ratio Lower Upper
99 100
42 16.7 14.6 22.0
71 30.8 24.6 37.0

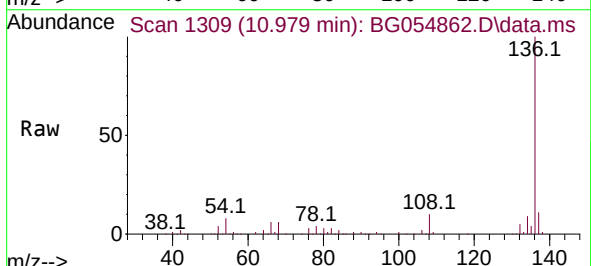
Manual Integrations

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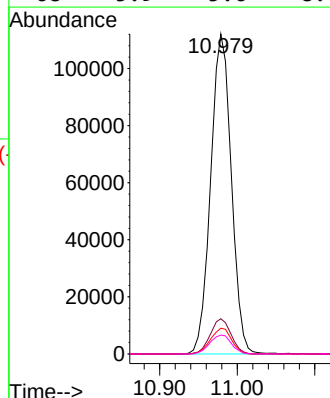
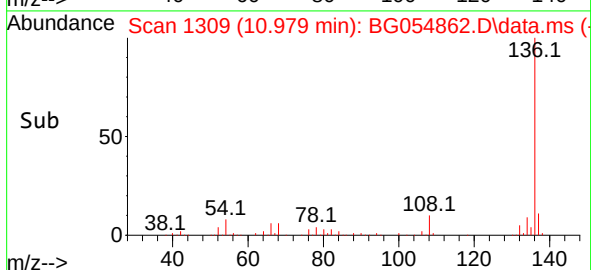
Reviewed By :Christian Giraldo 09/07/2022
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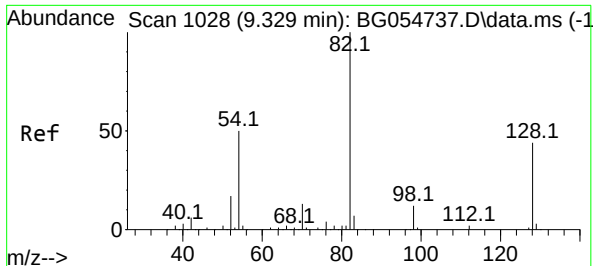


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.979 min Scan# 1309
Delta R.T. -0.001 min
Lab File: BG054862.D
Acq: 6 Sep 2022 22:06



Tgt Ion:136 Resp: 207308
Ion Ratio Lower Upper
136 100
137 11.0 9.2 13.8
54 8.0 7.7 11.5
68 5.9 5.6 8.4





#23

Nitrobenzene-d5

Concen: 69.935 ng

RT: 9.328 min Scan# 1028

Delta R.T. -0.001 min

Lab File: BG054862.D

Acq: 6 Sep 2022 22:06

Instrument :

BNA_G

ClientSampleId :

CL-02-090222

Tgt Ion: 82 Resp: 27617

Ion Ratio Lower Upper

82 100

128 44.6 32.2 48.2

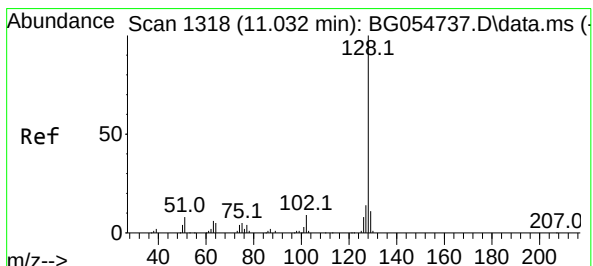
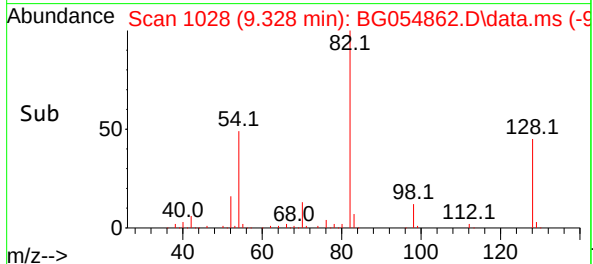
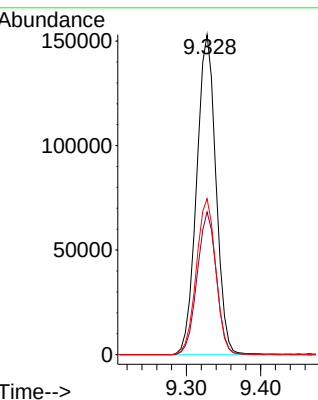
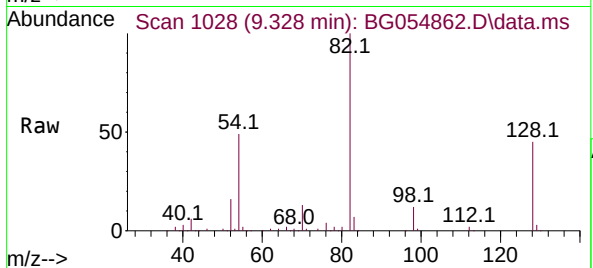
54 48.7 41.4 62.0

Manual Integrations

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#31

Naphthalene

Concen: 4.224 ng

RT: 11.032 min Scan# 1318

Delta R.T. -0.001 min

Lab File: BG054862.D

Acq: 6 Sep 2022 22:06

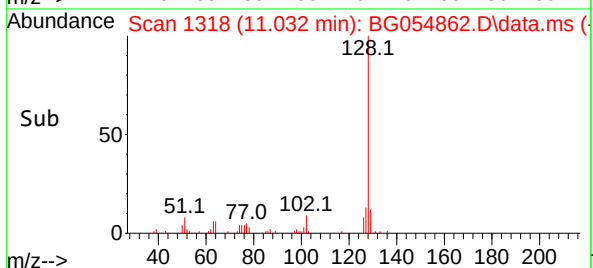
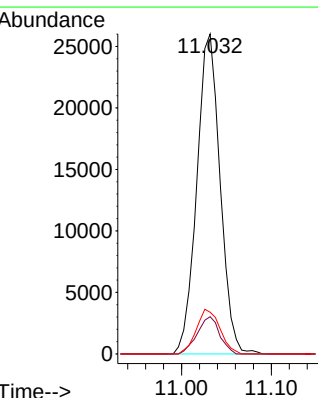
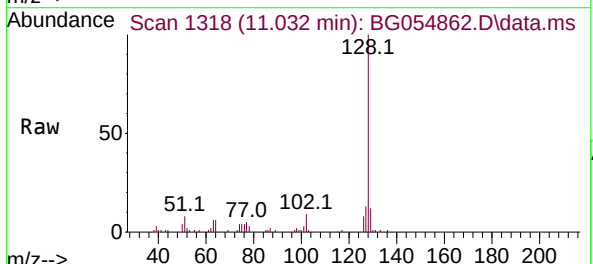
Tgt Ion:128 Resp: 46977

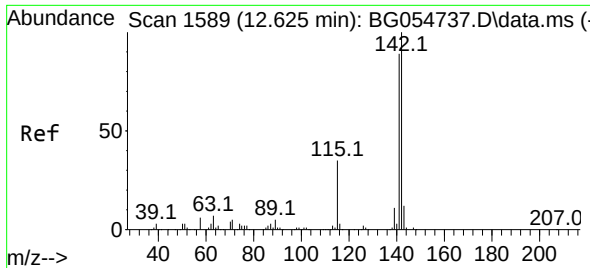
Ion Ratio Lower Upper

128 100

129 11.6 9.0 13.4

127 13.0 11.1 16.7





#37
2-Methylnaphthalene
Concen: 2.963 ng
RT: 12.624 min Scan# 1589
Delta R.T. -0.001 min
Lab File: BG054862.D
Acq: 6 Sep 2022 22:06

Instrument :

BNA_G

ClientSampleId :

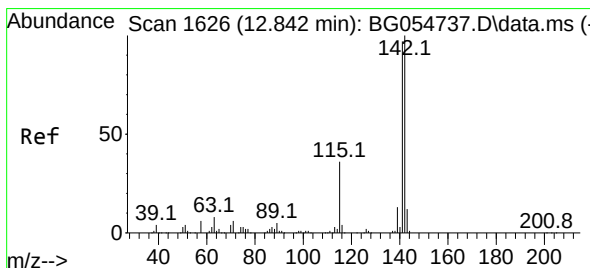
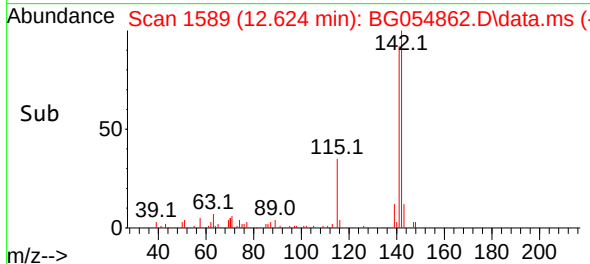
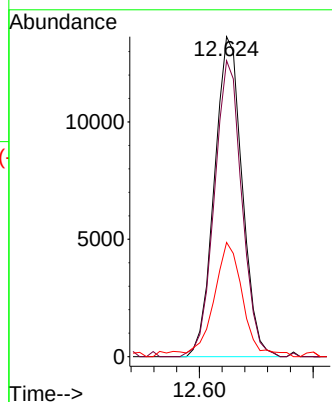
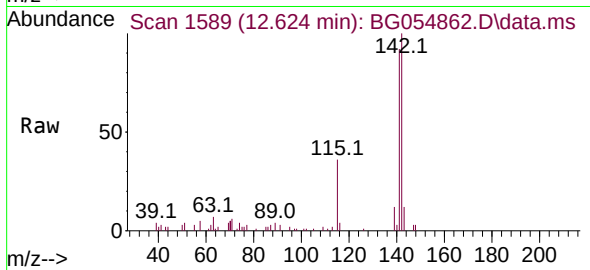
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Tgt Ion	Ratio	Lower	Upper
142	100		
141	92.5	73.0	109.4
115	35.7	27.3	40.9

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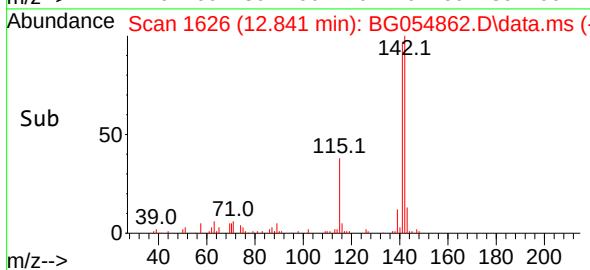
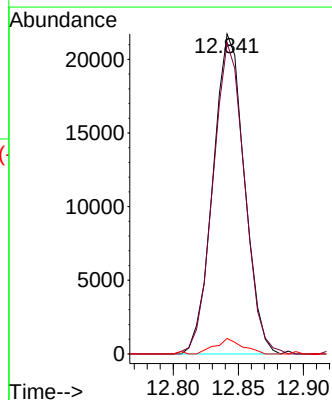
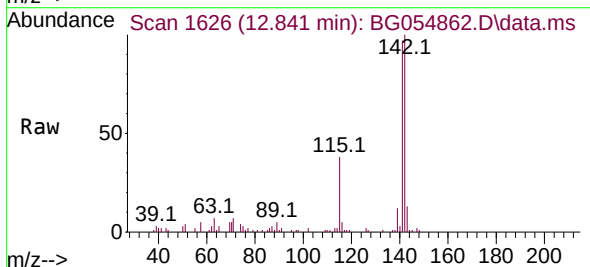
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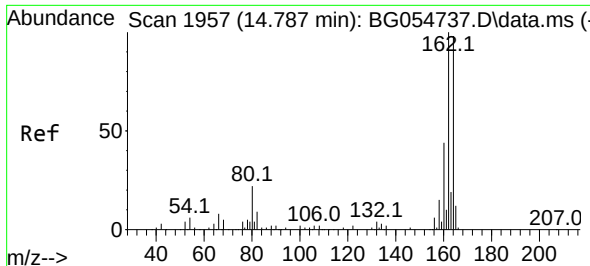
Reviewed By :Christian Giraldo 09/07/2022
Supervised By :Jagrut Upadhyay 09/07/2022



#38
1-Methylnaphthalene
Concen: 4.801 ng m
RT: 12.841 min Scan# 1626
Delta R.T. -0.001 min
Lab File: BG054862.D
Acq: 6 Sep 2022 22:06

Tgt Ion	Ratio	Lower	Upper
142	100		
141	97.2	77.4	116.0
116	4.8	3.0	4.4#





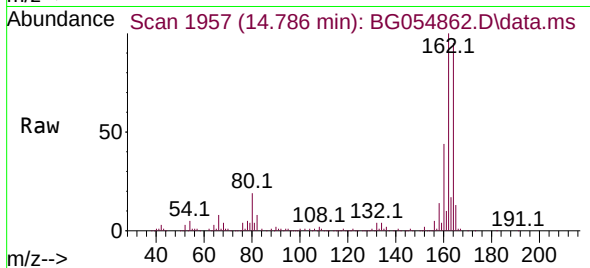
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.786 min Scan# 1957
Delta R.T. -0.001 min
Lab File: BG054862.D
Acq: 6 Sep 2022 22:06

Instrument :

BNA_G

ClientSampleId :

CL-02-090222

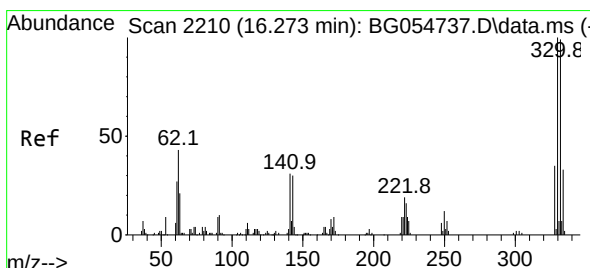
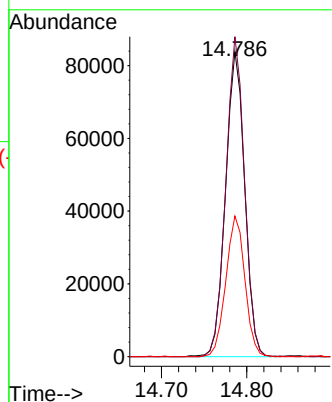
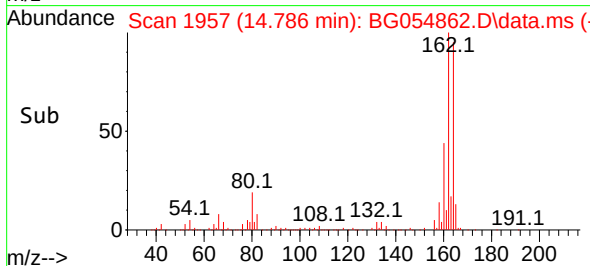


Tgt Ion:164 Resp: 130528
Ion Ratio Lower Upper
164 100
162 104.9 83.0 124.4
160 46.1 38.0 57.0

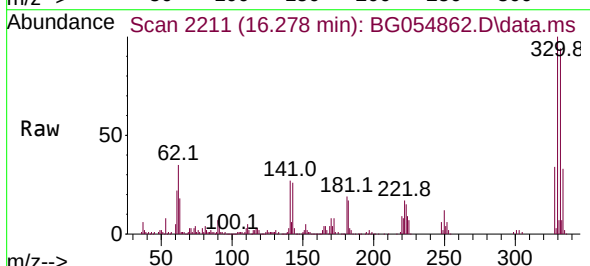
Manual Integrations

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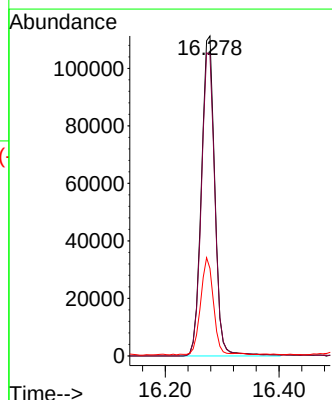
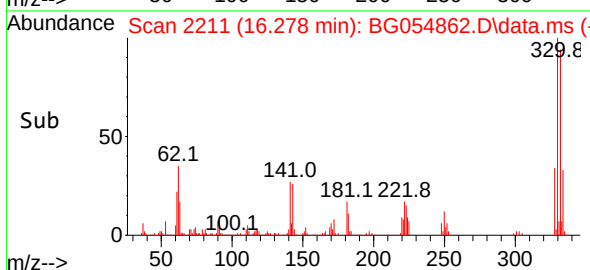
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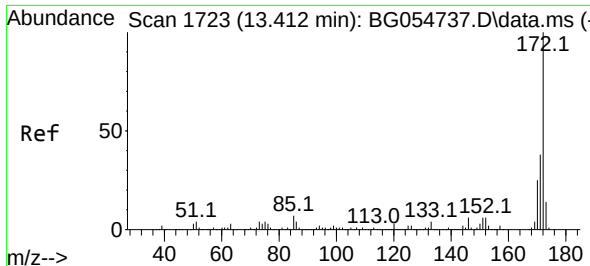


#42
2,4,6-Tribromophenol
Concen: 110.937 ng
RT: 16.278 min Scan# 2211
Delta R.T. 0.005 min
Lab File: BG054862.D
Acq: 6 Sep 2022 22:06



Tgt Ion:330 Resp: 180941
Ion Ratio Lower Upper
330 100
332 95.8 79.8 119.6
141 29.0 26.8 40.2





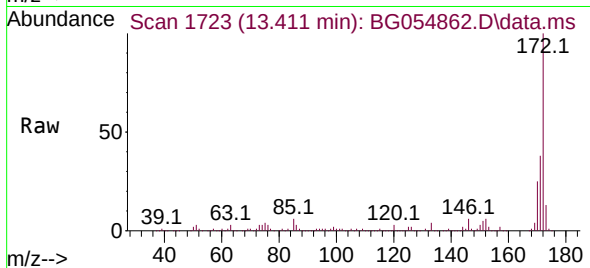
#45
2-Fluorobiphenyl
Concen: 76.242 ng
RT: 13.411 min Scan# 1723
Delta R.T. -0.001 min
Lab File: BG054862.D
Acq: 6 Sep 2022 22:06

Instrument :

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ClientSampleId :

CL-02-090222

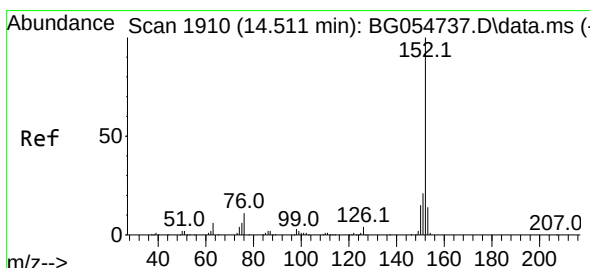
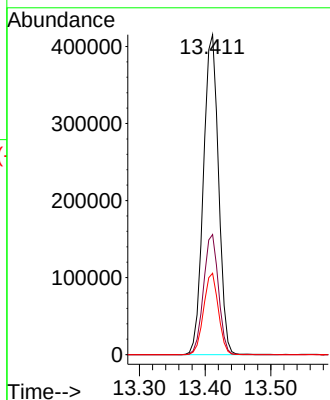
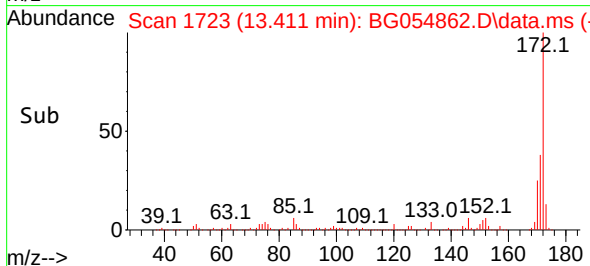


Tgt Ion:172 Resp: 662113
Ion Ratio Lower Upper
172 100
171 37.5 31.2 46.8
170 25.4 20.6 30.8

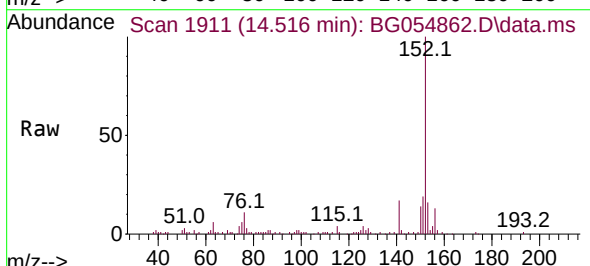
Manual Integrations

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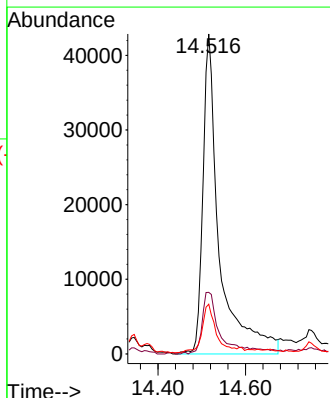
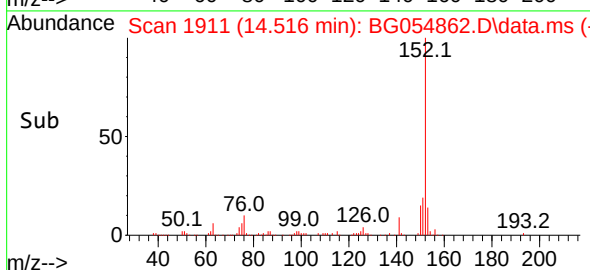
Reviewed By :Christian Giraldo 09/07/2022
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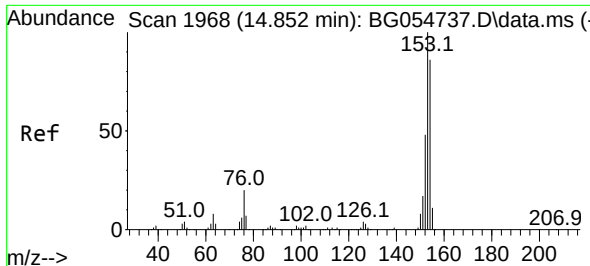


#49
Acenaphthylene
Concen: 9.191 ng
RT: 14.516 min Scan# 1911
Delta R.T. 0.005 min
Lab File: BG054862.D
Acq: 6 Sep 2022 22:06



Tgt Ion:152 Resp: 111654
Ion Ratio Lower Upper
152 100
151 19.2 17.3 25.9
153 15.5 10.8 16.2





#52
Acenaphthene
Concen: 11.212 ng
RT: 14.851 min Scan# 1968
Delta R.T. -0.001 min
Lab File: BG054862.D
Acq: 6 Sep 2022 22:06

Instrument :

BNA_G

ClientSampleId :

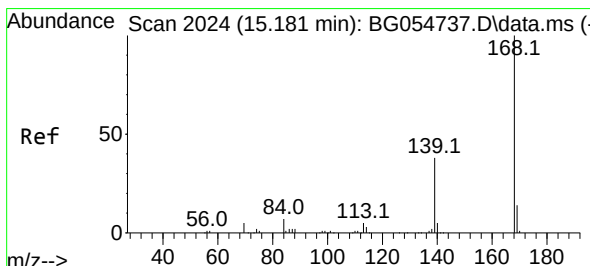
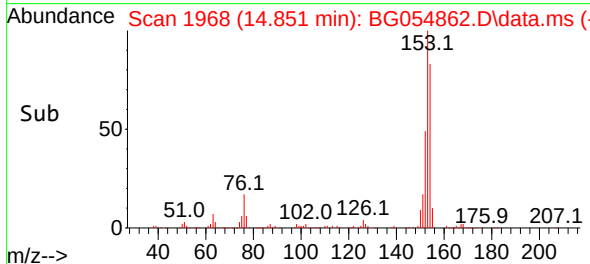
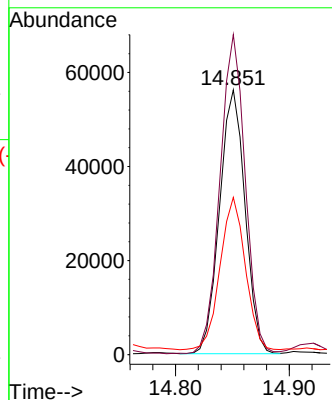
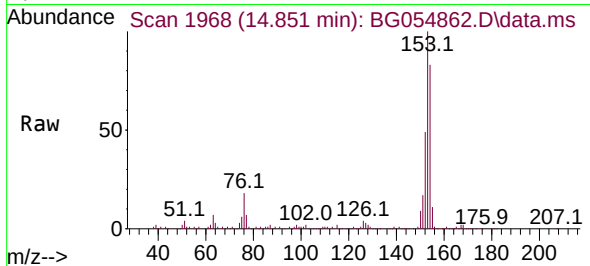
CL-02-090222

Tgt Ion:154 Resp: 87490
Ion Ratio Lower Upper
154 100
153 120.9 92.8 139.2
152 59.4 45.4 68.2

Manual Integrations

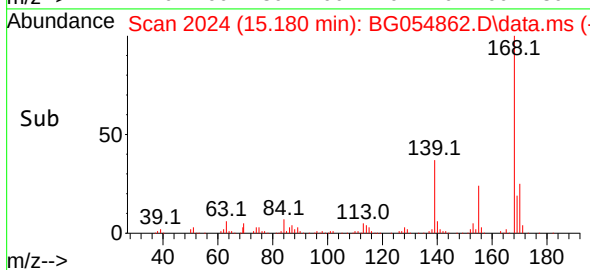
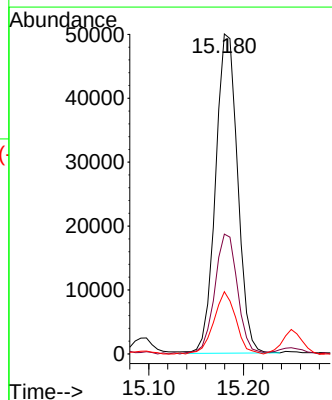
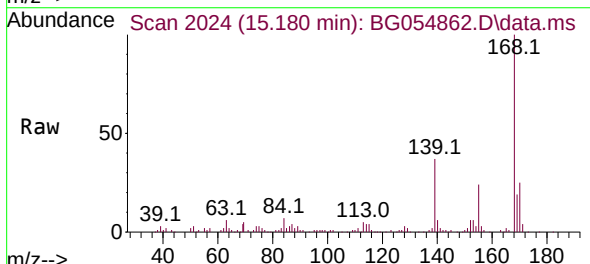
APPROVED

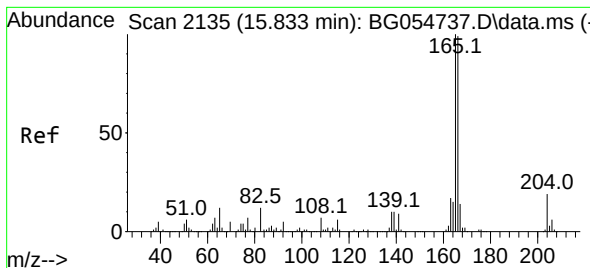
Reviewed By :Christian Giraldo 09/07/2022
Supervised By :Jagrut Upadhyay 09/07/2022



#55
Dibenzofuran
Concen: 7.046 ng
RT: 15.180 min Scan# 2024
Delta R.T. -0.001 min
Lab File: BG054862.D
Acq: 6 Sep 2022 22:06

Tgt Ion:168 Resp: 80787
Ion Ratio Lower Upper
168 100
139 37.4 30.2 45.2
169 19.4 11.3 16.9#





#58

Fluorene

Concen: 23.383 ng

RT: 15.832 min Scan# 2135

Delta R.T. -0.001 min

Lab File: BG054862.D

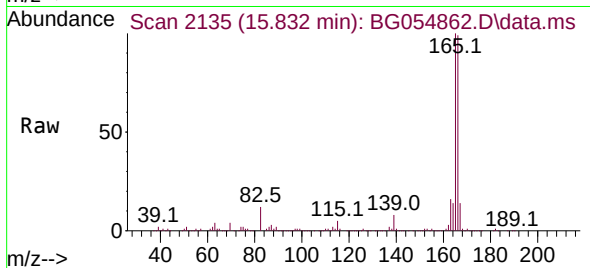
Acq: 6 Sep 2022 22:06

Instrument :

BNA_G

ClientSampleId :

CL-02-090222



Tgt Ion:166 Resp: 225869

Ion Ratio Lower Upper

166 100

165 100.8 80.8 121.2

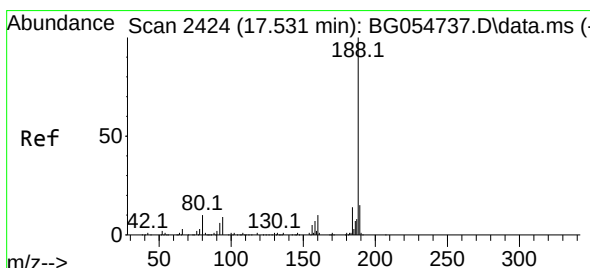
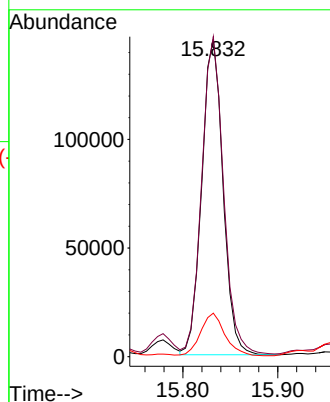
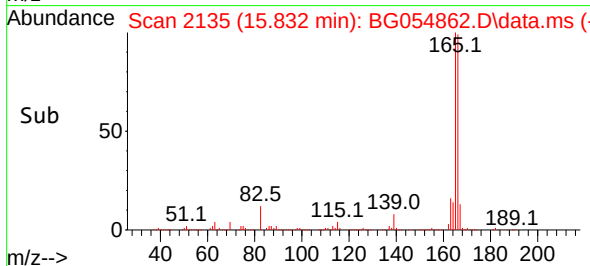
167 13.7 11.4 17.0

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 09/07/2022

Supervised By :Jagrut Upadhyay 09/07/2022



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.536 min Scan# 2425

Delta R.T. 0.005 min

Lab File: BG054862.D

Acq: 6 Sep 2022 22:06

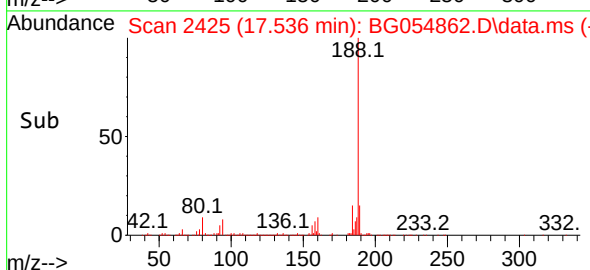
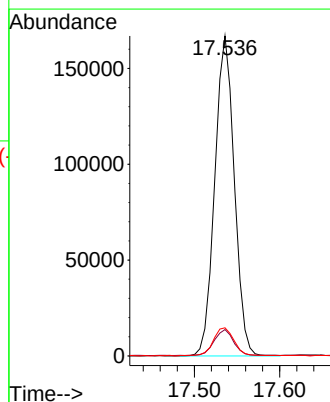
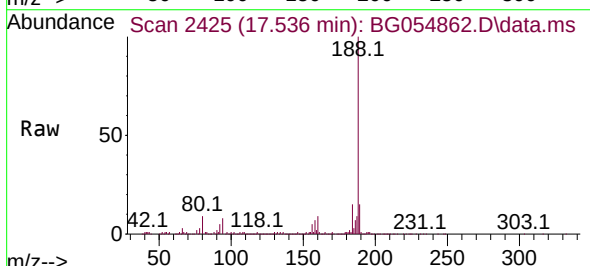
Tgt Ion:188 Resp: 265415

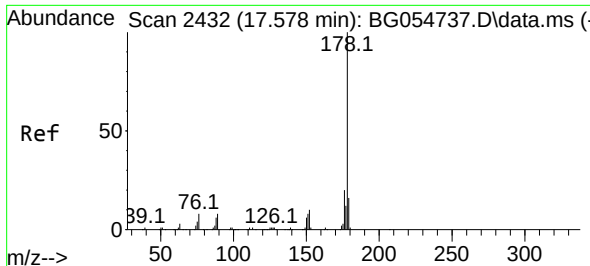
Ion Ratio Lower Upper

188 100

94 8.2 7.0 10.4

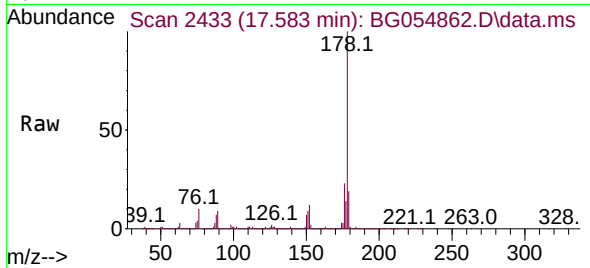
80 8.8 7.9 11.9





#71
Phenanthrene
Concen: 115.182 ng
RT: 17.583 min Scan# 2432
Delta R.T. 0.005 min
Lab File: BG054862.D
Acq: 6 Sep 2022 22:06

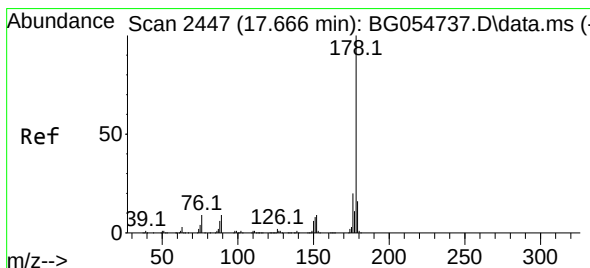
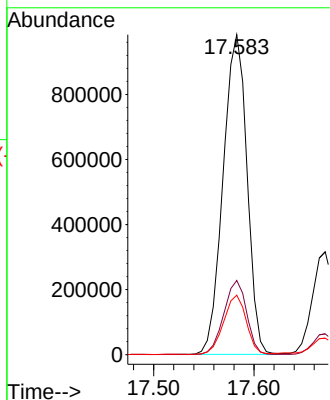
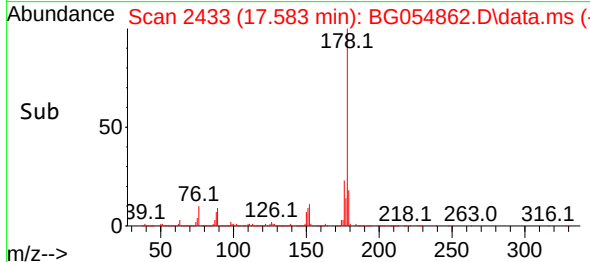
Instrument :
BNA_G
ClientSampleId :
CL-02-090222



Tgt Ion:178 Resp: 1628544
Ion Ratio Lower Upper
178 100
176 23.2 16.6 25.0
179 18.6 12.8 19.2

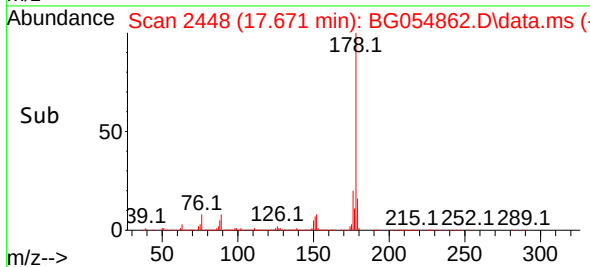
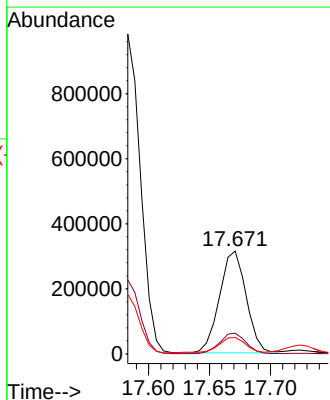
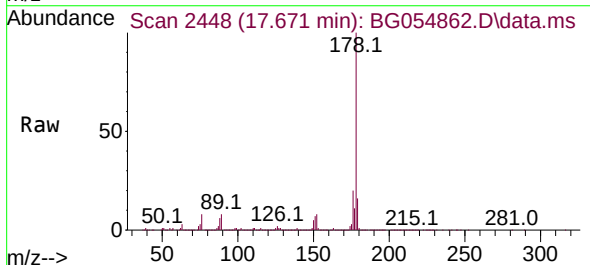
Manual Integrations
APPROVED

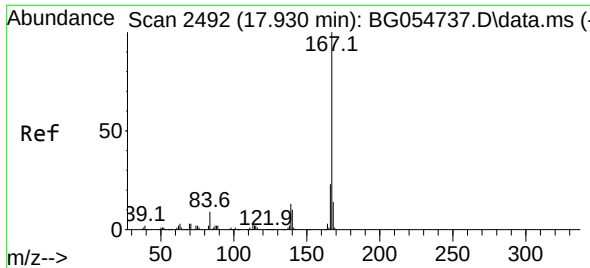
Reviewed By :Christian Giraldo 09/07/2022
Supervised By :Jagrut Upadhyay 09/07/2022



#72
Anthracene
Concen: 34.612 ng
RT: 17.671 min Scan# 2448
Delta R.T. 0.005 min
Lab File: BG054862.D
Acq: 6 Sep 2022 22:06

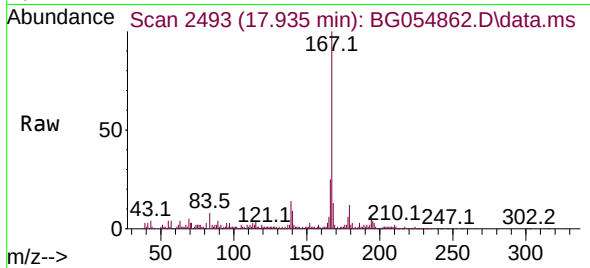
Tgt Ion:178 Resp: 475792
Ion Ratio Lower Upper
178 100
176 20.2 16.2 24.4
179 16.0 12.9 19.3





#73
Carbazole
Concen: 7.071 ng
RT: 17.935 min Scan# 2492
Delta R.T. 0.005 min
Lab File: BG054862.D
Acq: 6 Sep 2022 22:06

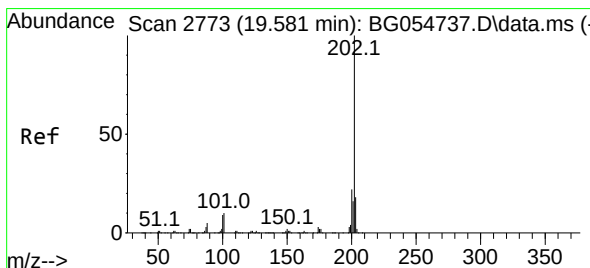
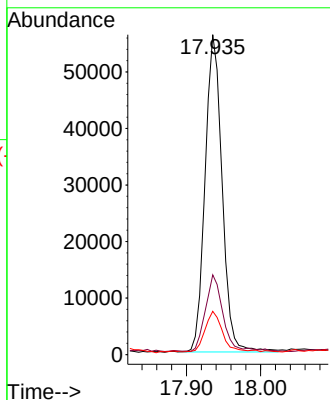
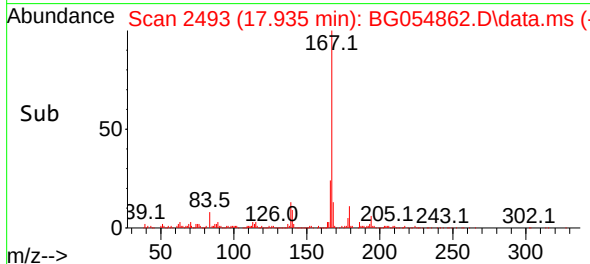
Instrument :
BNA_G
ClientSampleId :
CL-02-090222



Tgt Ion:167 Resp: 8955
Ion Ratio Lower Upper
167 100
166 24.9 18.8 28.2
139 13.5 10.2 15.4

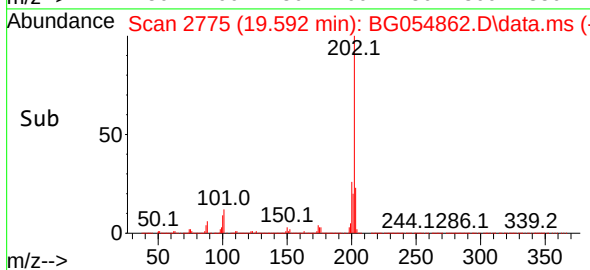
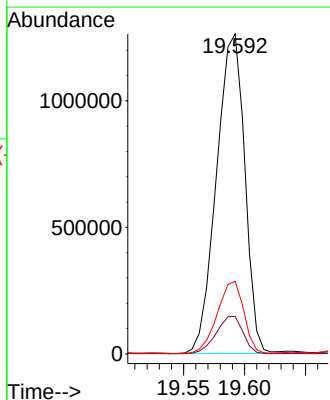
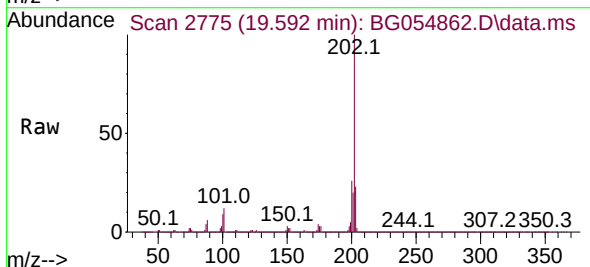
Manual Integrations
APPROVED

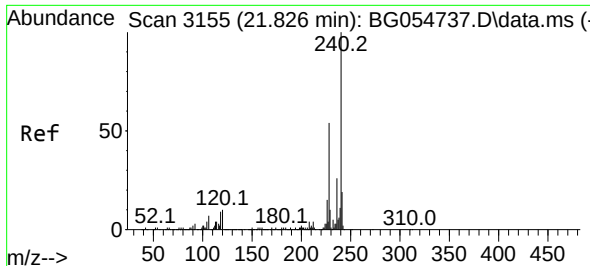
Reviewed By :Christian Giraldo 09/07/2022
Supervised By :Jagrut Upadhyay 09/07/2022



#75
Fluoranthene
Concen: 118.593 ng
RT: 19.592 min Scan# 2775
Delta R.T. 0.011 min
Lab File: BG054862.D
Acq: 6 Sep 2022 22:06

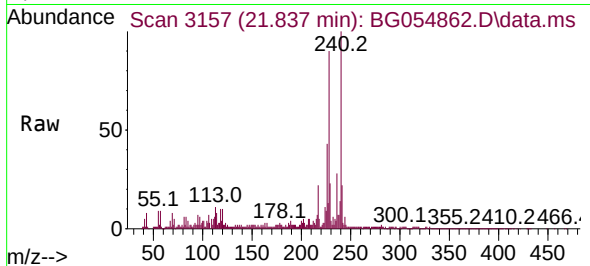
Tgt Ion:202 Resp: 2039791
Ion Ratio Lower Upper
202 100
101 11.7 0.0 31.4
203 22.7 0.0 38.6





#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.837 min Scan# 3155
Delta R.T. 0.011 min
Lab File: BG054862.D
Acq: 6 Sep 2022 22:06

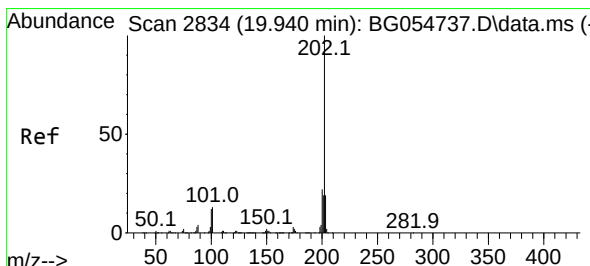
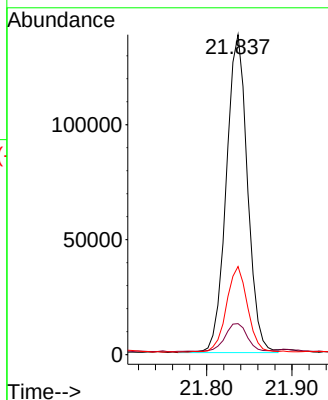
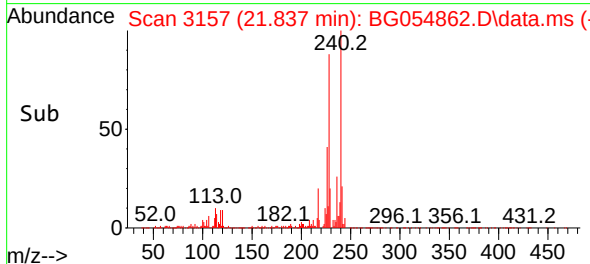
Instrument :
BNA_G
ClientSampleId :
CL-02-090222



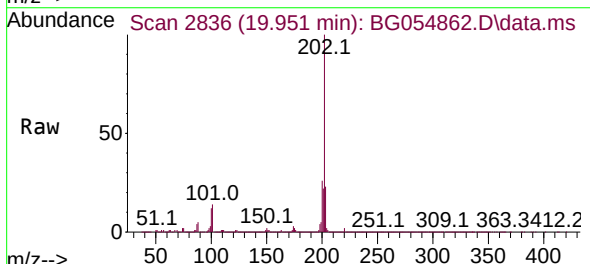
Tgt Ion:240 Resp: 238932
Ion Ratio Lower Upper
240 100
120 9.7 8.2 12.4
236 27.5 21.2 31.8

Manual Integrations
APPROVED

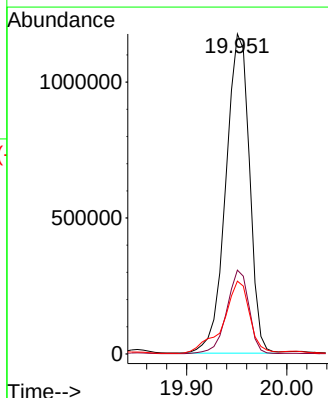
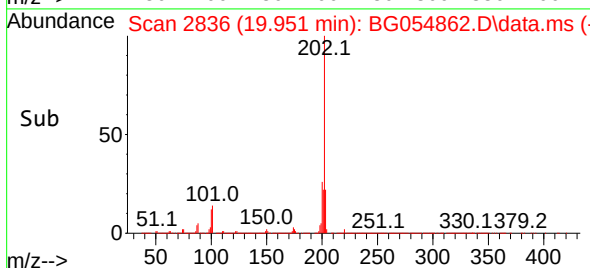
Reviewed By :Christian Giraldo 09/07/2022
Supervised By :Jagrut Upadhyay 09/07/2022

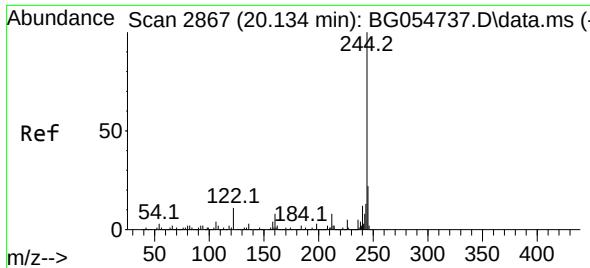


#78
Pyrene
Concen: 115.575 ng m
RT: 19.951 min Scan# 2836
Delta R.T. 0.011 min
Lab File: BG054862.D
Acq: 6 Sep 2022 22:06



Tgt Ion:202 Resp: 1925540
Ion Ratio Lower Upper
202 100
200 26.2 17.8 26.6
203 22.7 14.6 21.8





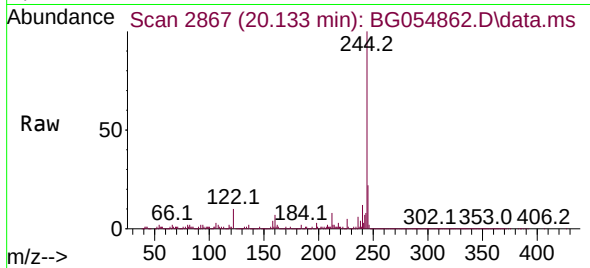
#79
 Terphenyl-d14
 Concen: 74.906 ng
 RT: 20.133 min Scan# 2867
 Delta R.T. -0.001 min
 Lab File: BG054862.D
 Acq: 6 Sep 2022 22:06

Instrument :

BNA_G

ClientSampleId :

CL-02-090222

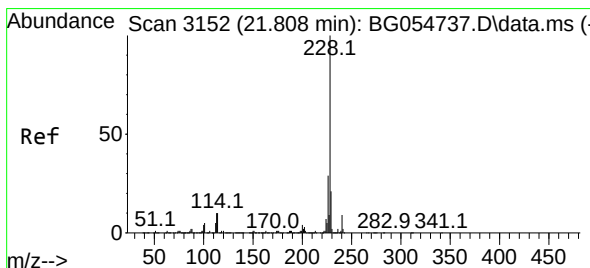
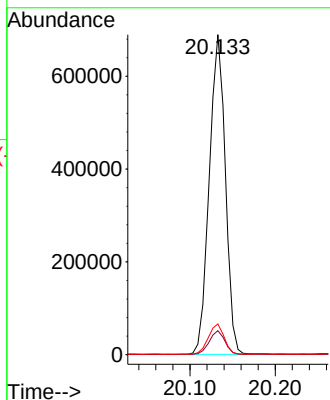
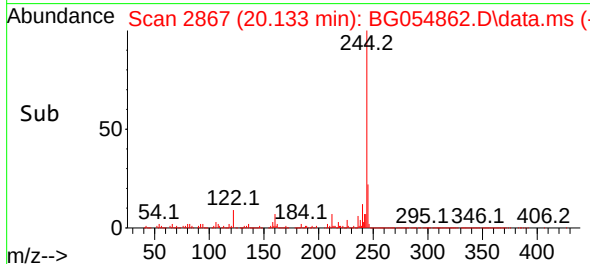


Tgt Ion:244 Resp: 903276
 Ion Ratio Lower Upper
 244 100
 212 7.5 6.2 9.2
 122 9.6 9.0 13.6

Manual Integrations

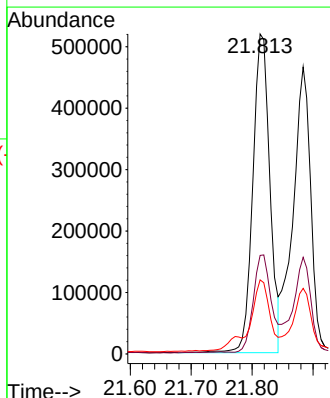
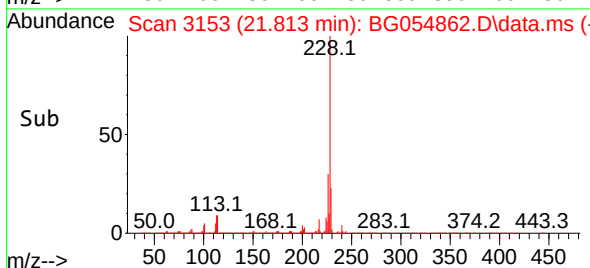
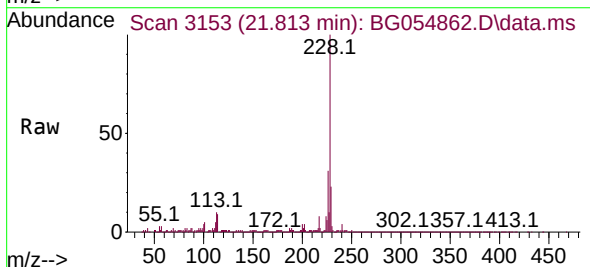
APPROVED

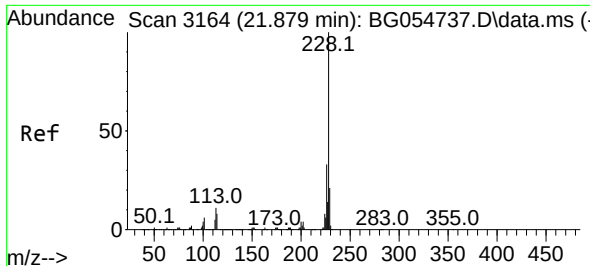
Reviewed By :Christian Giraldo 09/07/2022
 Supervised By :Jagrut Upadhyay 09/07/2022



#81
 Benzo(a)anthracene
 Concen: 62.273 ng
 RT: 21.813 min Scan# 3153
 Delta R.T. 0.005 min
 Lab File: BG054862.D
 Acq: 6 Sep 2022 22:06

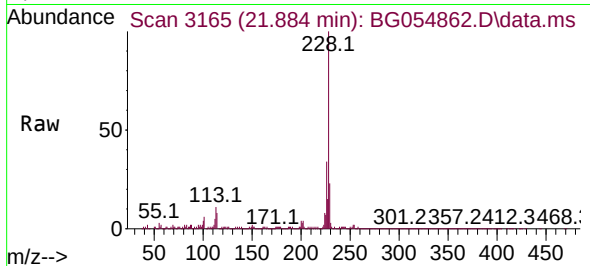
Tgt Ion:228 Resp: 1008843
 Ion Ratio Lower Upper
 228 100
 226 30.8 23.4 35.2
 229 23.1 16.5 24.7





#83
Chrysene
Concen: 60.555 ng m
RT: 21.884 min Scan# 31
Delta R.T. 0.005 min
Lab File: BG054862.D
Acq: 6 Sep 2022 22:06

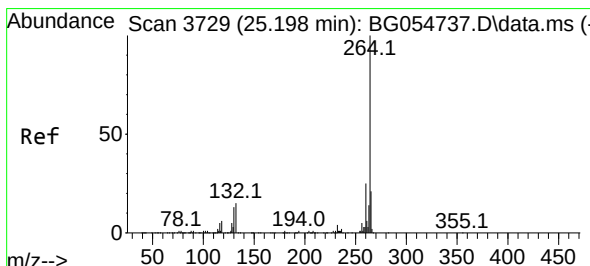
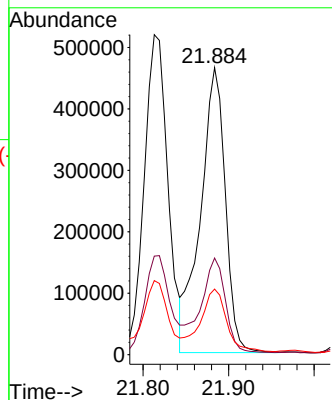
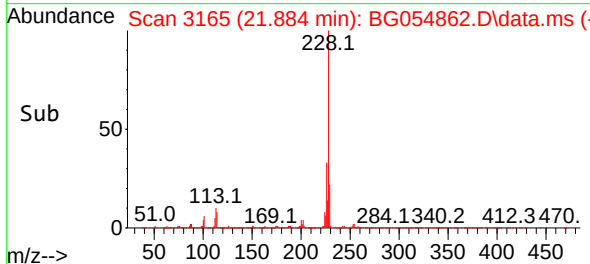
Instrument :
BNA_G
ClientSampleId :
CL-02-090222



Tgt Ion:228 Resp: 93798
Ion Ratio Lower Upper
228 100
226 33.6 25.5 38.3
229 22.9 16.8 25.2

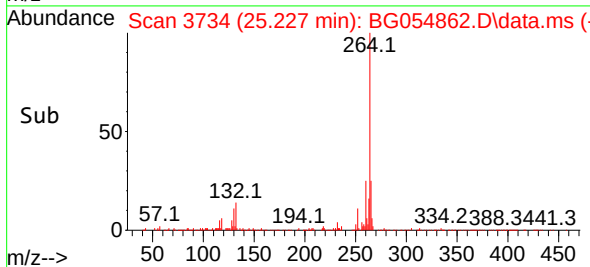
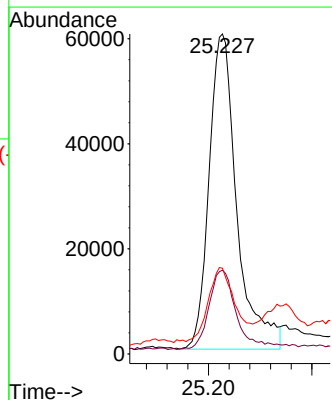
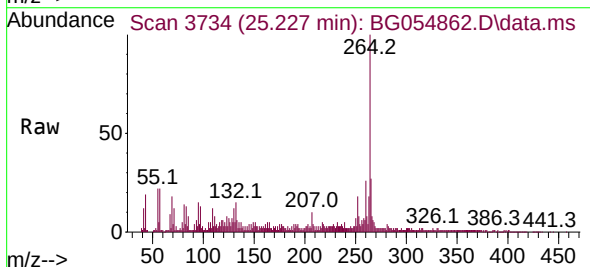
Manual Integrations
APPROVED

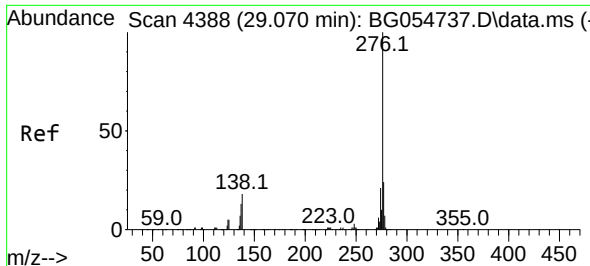
Reviewed By :Christian Giraldo 09/07/2022
Supervised By :Jagrut Upadhyay 09/07/2022



#86
Perylene-d12
Concen: 20.000 ng
RT: 25.227 min Scan# 3734
Delta R.T. 0.029 min
Lab File: BG054862.D
Acq: 6 Sep 2022 22:06

Tgt Ion:264 Resp: 224378
Ion Ratio Lower Upper
264 100
260 26.2 19.9 29.9
265 26.8 16.9 25.3#





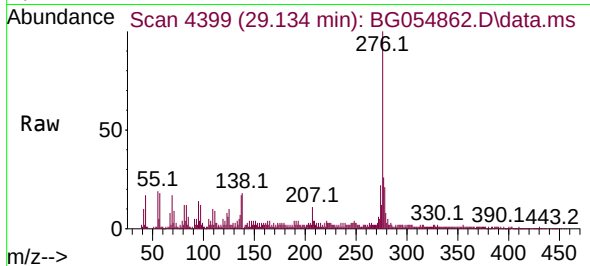
#87
 Indeno(1,2,3-cd)pyrene
 Concen: 19.011 ng
 RT: 29.134 min Scan# 4388
 Delta R.T. 0.064 min
 Lab File: BG054862.D
 Acq: 6 Sep 2022 22:06

Instrument :

BNA_G

ClientSampleId :

CL-02-090222

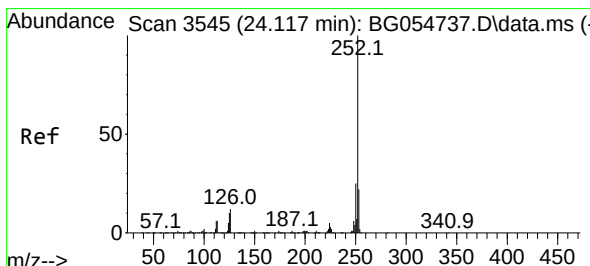
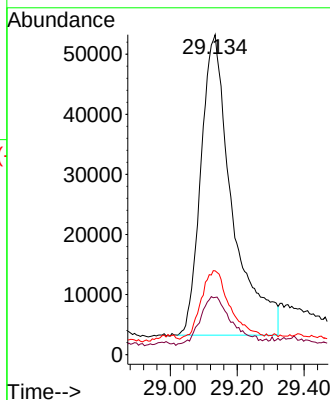
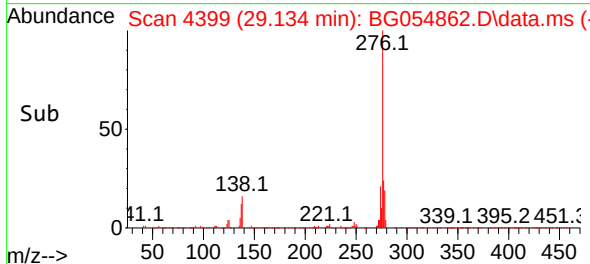


Tgt Ion:276 Resp: 323839
 Ion Ratio Lower Upper
 276 100
 138 16.8 12.0 18.0
 277 21.5 20.2 30.4

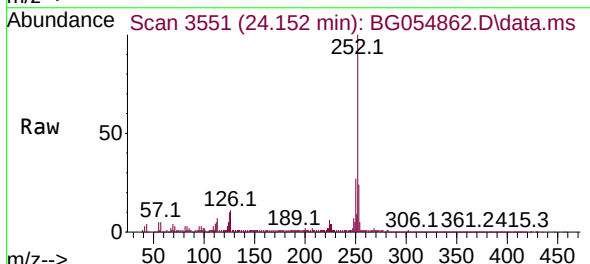
Manual Integrations

APPROVED

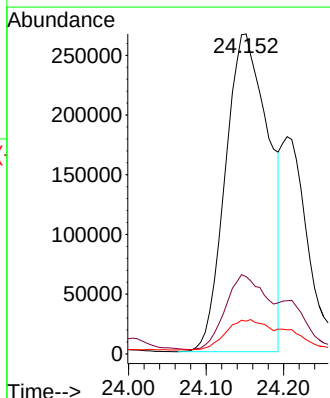
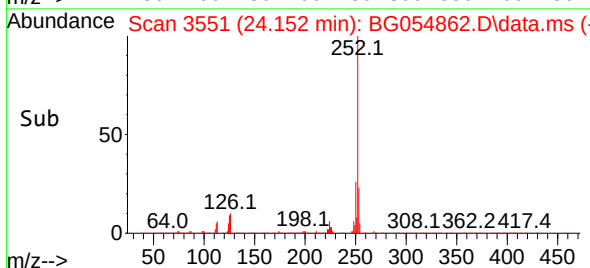
Reviewed By :Christian Giraldo 09/07/2022
 Supervised By :Jagrut Upadhyay 09/07/2022

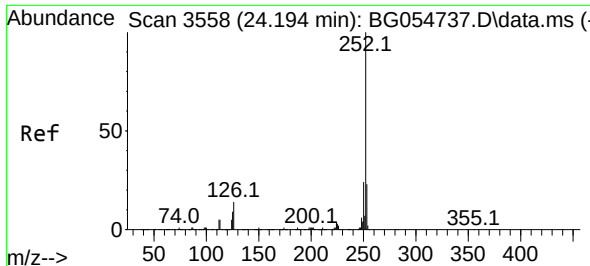


#88
 Benzo(b)fluoranthene
 Concen: 73.383 ng
 RT: 24.152 min Scan# 3551
 Delta R.T. 0.034 min
 Lab File: BG054862.D
 Acq: 6 Sep 2022 22:06



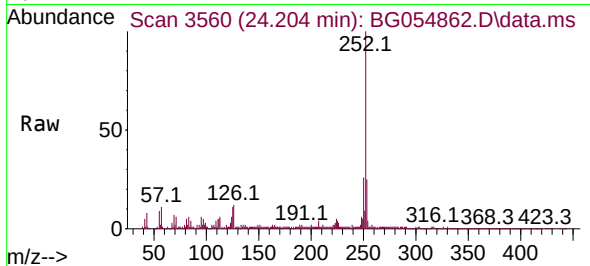
Tgt Ion:252 Resp: 1032894
 Ion Ratio Lower Upper
 252 100
 253 24.2 18.0 27.0
 125 10.2 8.1 12.1





#89
Benzo(k)fluoranthene
Concen: 28.917 ng m
RT: 24.204 min Scan# 3558
Delta R.T. 0.011 min
Lab File: BG054862.D
Acq: 6 Sep 2022 22:06

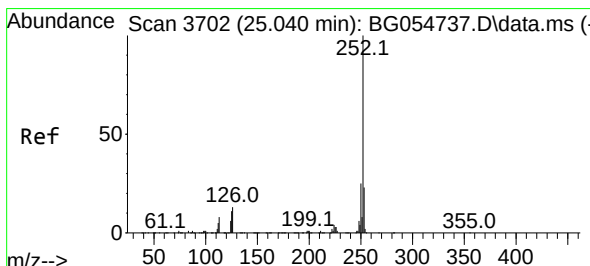
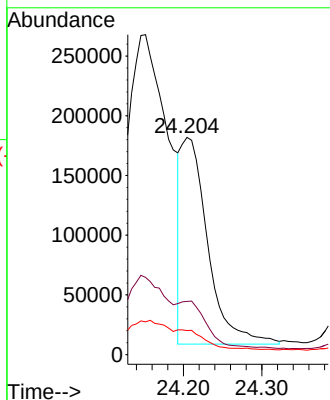
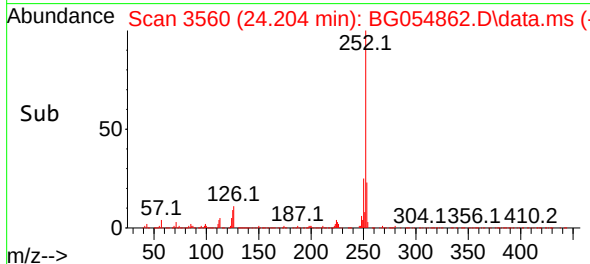
Instrument :
BNA_G
ClientSampleId :
CL-02-090222



Tgt Ion:252 Resp: 409626
Ion Ratio Lower Upper
252 100
253 24.5 17.8 26.8
125 11.1 8.2 12.4

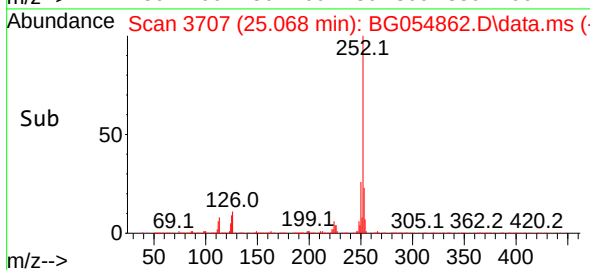
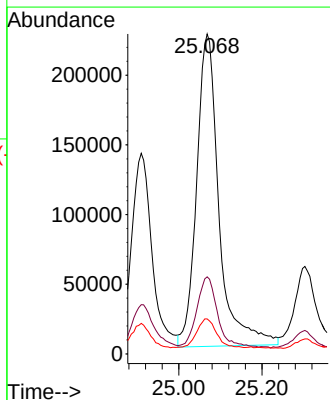
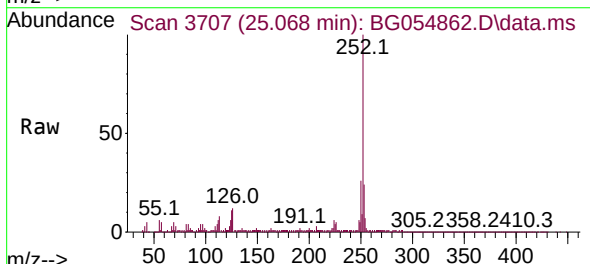
Manual Integrations
APPROVED

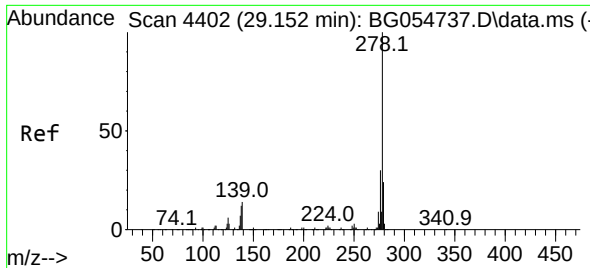
Reviewed By :Christian Giraldo 09/07/2022
Supervised By :Jagrut Upadhyay 09/07/2022



#90
Benzo(a)pyrene
Concen: 69.586 ng
RT: 25.068 min Scan# 3707
Delta R.T. 0.029 min
Lab File: BG054862.D
Acq: 6 Sep 2022 22:06

Tgt Ion:252 Resp: 836804
Ion Ratio Lower Upper
252 100
253 24.1 18.3 27.5
125 10.9 8.8 13.2





#91
Dibenzo(a,h)anthracene
Concen: 5.506 ng
RT: 29.181 min Scan# 4407
Delta R.T. 0.029 min
Lab File: BG054862.D
Acq: 6 Sep 2022 22:06

Instrument :

BNA_G

ClientSampleId :

CL-02-090222

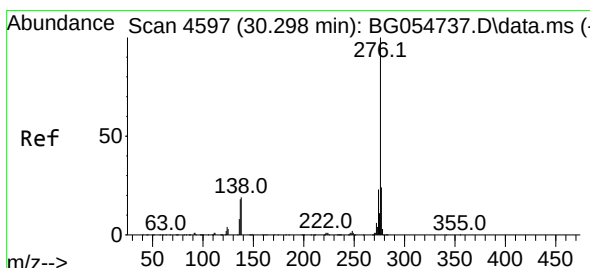
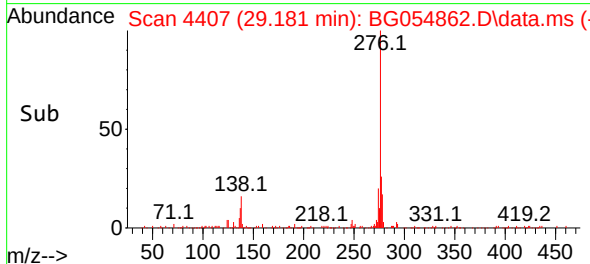
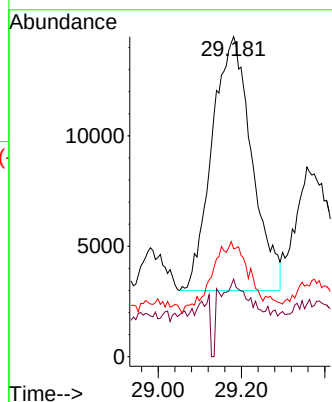
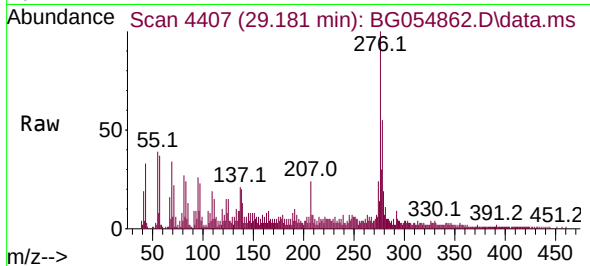
Tgt Ion:278 Resp: 76405
Ion Ratio Lower Upper
278 100
139 24.2 11.4 17.2
279 33.7 19.3 28.9

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 09/07/2022

Supervised By :Jagrut Upadhyay 09/07/2022



#92
Benzo(g,h,i)perylene
Concen: 19.043 ng
RT: 30.356 min Scan# 4607
Delta R.T. 0.058 min
Lab File: BG054862.D
Acq: 6 Sep 2022 22:06

Tgt Ion:276 Resp: 266971
Ion Ratio Lower Upper
276 100
277 26.7 19.4 29.0
138 18.3 16.6 25.0

