

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG112222\
 Data File : BG055751.D
 Acq On : 22 Nov 2022 22:45
 Operator : CG/JU
 Sample : N5723-01
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 OR-3-111822

Quant Time: Nov 23 01:41:42 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG111622.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 23 01:35:20 2022
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :Christian Giraldo 11/23/2022
 Supervised By :Jagrut Upadhyay 11/23/2022

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.243	152	41560	20.000	ng	0.00
21) Naphthalene-d8	11.075	136	177330	20.000	ng	0.00
39) Acenaphthene-d10	14.865	164	118438	20.000	ng	0.00
64) Phenanthrene-d10	17.609	188	247557	20.000	ng	0.00
76) Chrysene-d12	21.910	240	233171	20.000	ng	0.00
86) Perylene-d12	25.323	264	251086	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.776	112	327480	142.427	ng	0.00
7) Phenol-d6	7.391	99	433022	141.477	ng	0.00
23) Nitrobenzene-d5	9.418	82	277503	82.712	ng	0.00
42) 2,4,6-Tribromophenol	16.351	330	199415	119.571	ng	0.00
45) 2-Fluorobiphenyl	13.490	172	650117	82.234	ng	0.00
79) Terphenyl-d14	20.194	244	943294	80.915	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	11.122	128	138598	14.458	ng	100
37) 2-Methylnaphthalene	12.714	142	64974	9.052	ng	99
38) 1-Methylnaphthalene	12.926	142	58273	8.363	ng	97
46) 1,1'-Biphenyl	13.702	154	19143	2.218	ng	98
49) Acenaphthylene	14.595	152	35208	3.187	ng	# 93
52) Acenaphthene	14.929	154	84522	11.707	ng	99
55) Dibenzofuran	15.259	168	119356	10.716	ng	99
58) Fluorene	15.911	166	175731	19.754	ng	98
71) Phenanthrene	17.656	178	1178921	88.248	ng	98
72) Anthracene	17.744	178	336375	25.915	ng	99
73) Carbazole	18.008	167	96268	8.250	ng	99
75) Fluoranthene	19.653	202	1289214	79.324	ng	97
78) Pyrene	20.012	202	1195175	75.726	ng	97
81) Benzo(a)anthracene	21.892	228	646584	40.261	ng	97
83) Chrysene	21.957	228	546922	35.773	ng	98
87) Indeno(1,2,3-cd)pyrene	29.254	276	269738	13.113	ng	93
88) Benzo(b)fluoranthene	24.242	252	674673	41.259	ng	98
89) Benzo(k)fluoranthene	24.301	252	243159m	14.918	ng	
90) Benzo(a)pyrene	25.165	252	544167	38.780	ng	98
91) Dibenzo(a,h)anthracene	29.295	278	74609m	4.439	ng	
92) Benzo(g,h,i)perylene	30.488	276	266446	15.727	ng	99

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

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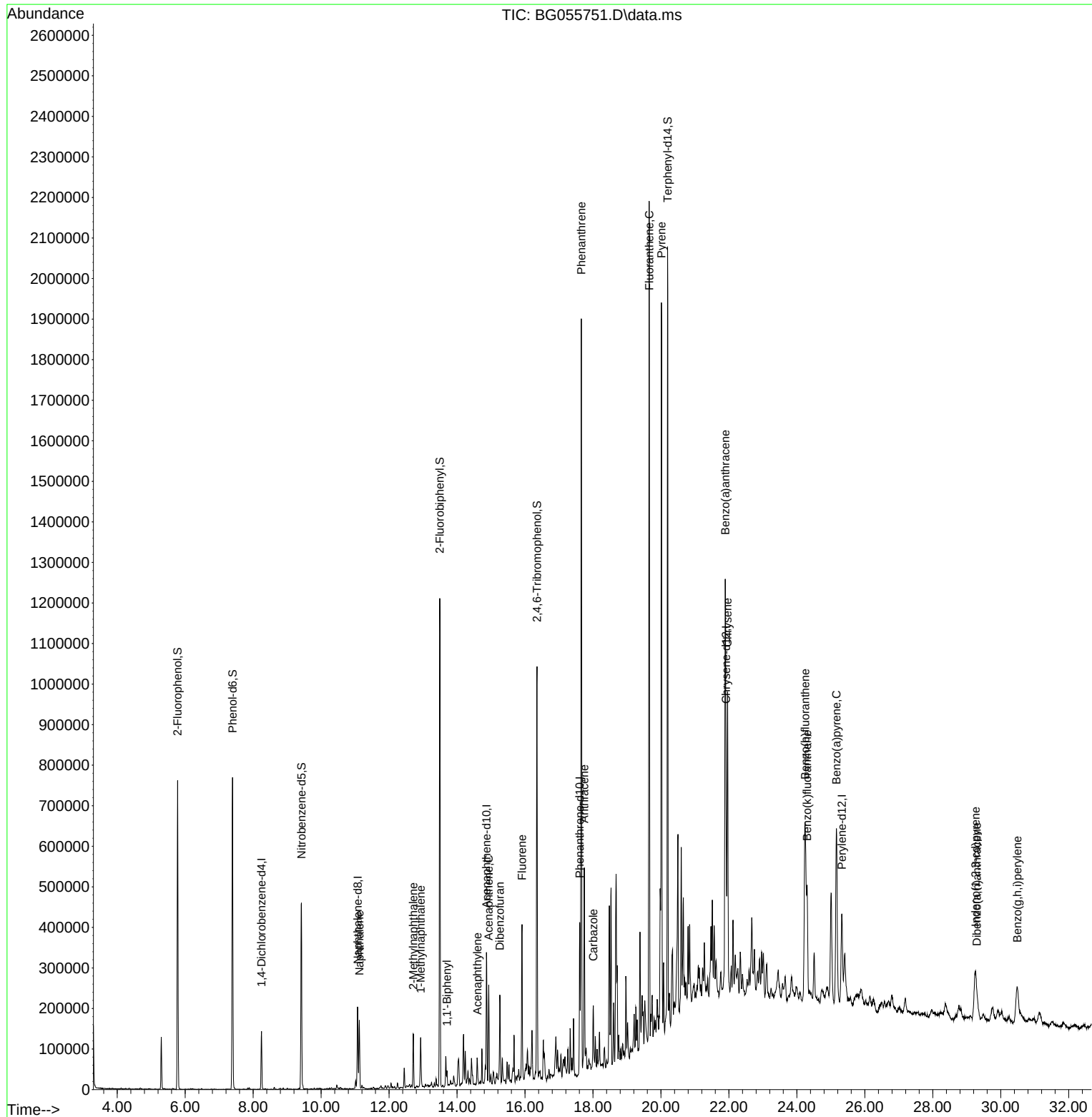
Quant Time: Nov 23 01:41:42 2022

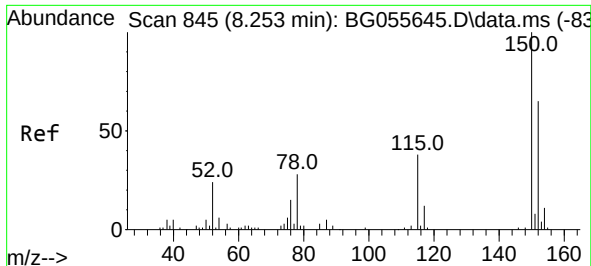
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG11622.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Nov 23 01:35:20 2022

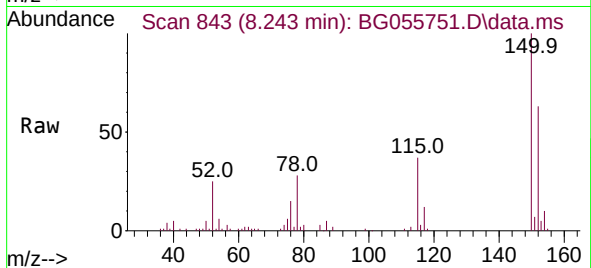
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.243 min Scan# 845
Delta R.T. -0.003 min
Lab File: BG055751.D
Acq: 22 Nov 2022 22:45

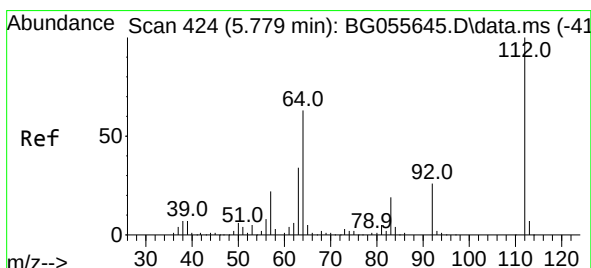
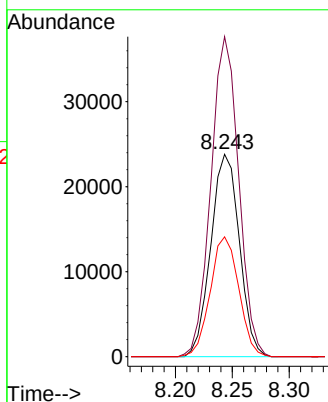
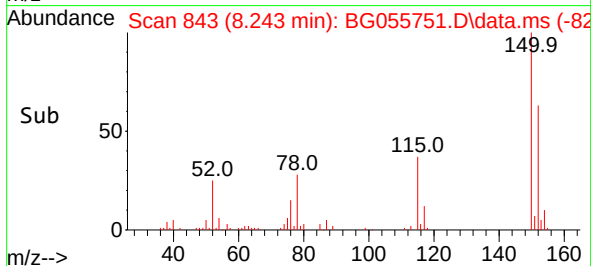
Instrument :
BNA_G
ClientSampleId :
OR-3-111822



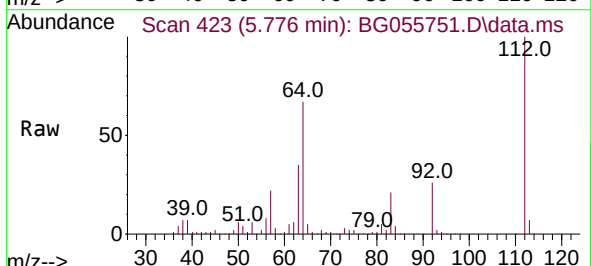
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Ion Ratio Lower Upper
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150 158.2 123.0 184.6
115 59.2 47.0 70.4

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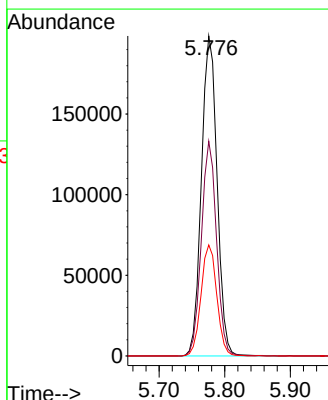
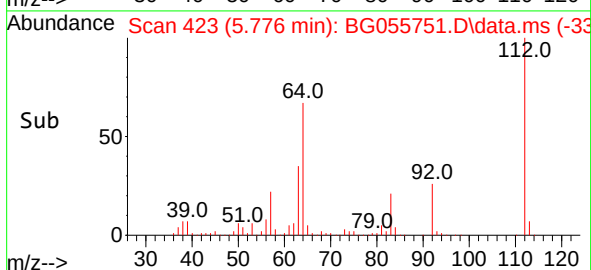
Reviewed By :Christian Giraldo 11/23/2022
Supervised By :Jagrut Upadhyay 11/23/2022

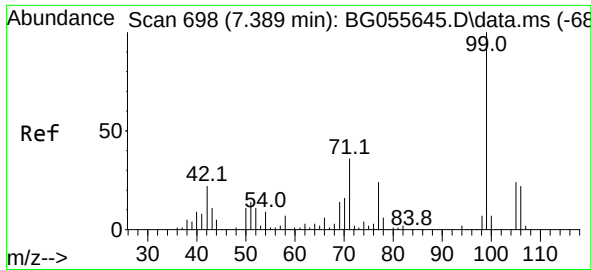


#5
2-Fluorophenol
Concen: 142.427 ng
RT: 5.776 min Scan# 423
Delta R.T. 0.003 min
Lab File: BG055751.D
Acq: 22 Nov 2022 22:45



Tgt Ion:112 Resp: 327480
Ion Ratio Lower Upper
112 100
64 67.1 50.6 76.0
63 34.7 27.5 41.3





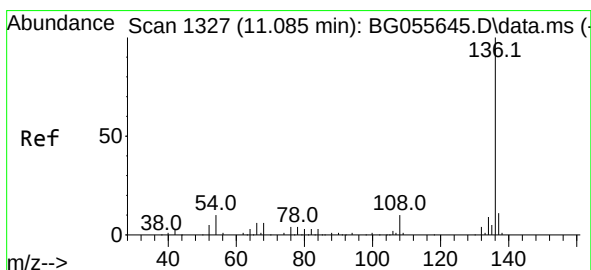
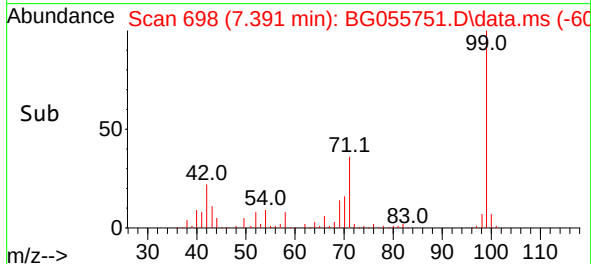
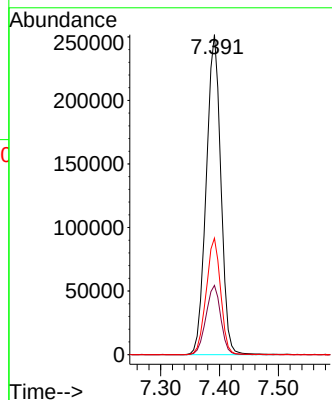
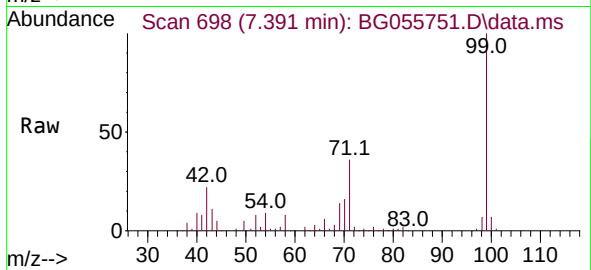
#7
Phenol-d6
Concen: 141.477 ng
RT: 7.391 min Scan# 698
Delta R.T. 0.003 min
Lab File: BG055751.D
Acq: 22 Nov 2022 22:45

Instrument :
BNA_G
ClientSampleId :
OR-3-111822

Tgt Ion: 99 Resp: 433022
Ion Ratio Lower Upper
99 100
42 21.6 18.0 27.0
71 36.4 29.0 43.6

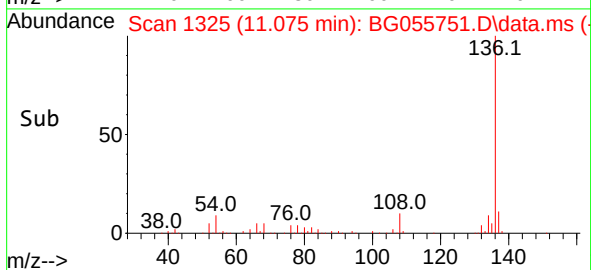
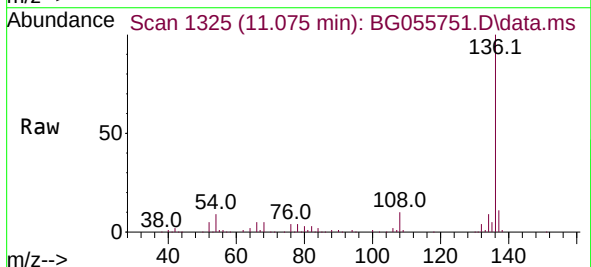
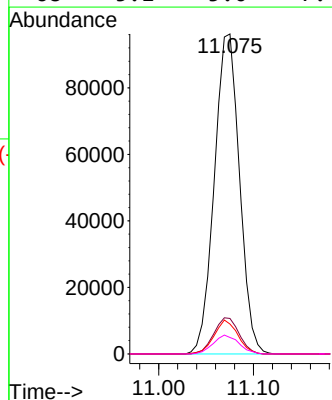
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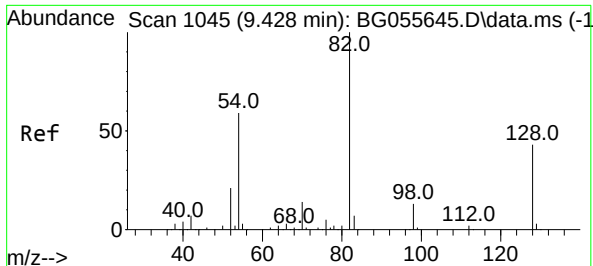
Reviewed By :Christian Giraldo 11/23/2022
Supervised By :Jagrut Upadhyay 11/23/2022



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.075 min Scan# 1325
Delta R.T. 0.003 min
Lab File: BG055751.D
Acq: 22 Nov 2022 22:45

Tgt Ion:136 Resp: 177330
Ion Ratio Lower Upper
136 100
137 11.1 9.0 13.6
54 9.3 7.8 11.6
68 5.1 5.0 7.4





#23

Nitrobenzene-d5

Concen: 82.712 ng

RT: 9.418 min Scan# 1045

Delta R.T. 0.003 min

Lab File: BG055751.D

Acq: 22 Nov 2022 22:45

Instrument :

BNA_G

ClientSampleId :

OR-3-111822

Tgt Ion: 82 Resp: 277503

Ion Ratio Lower Upper

82 100

128 42.7 34.1 51.1

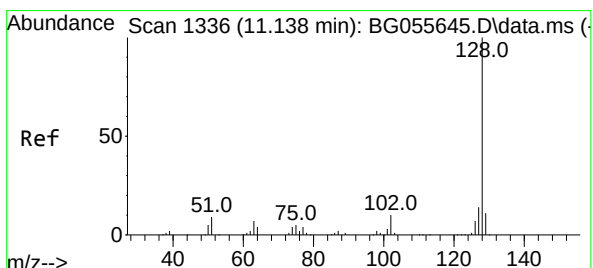
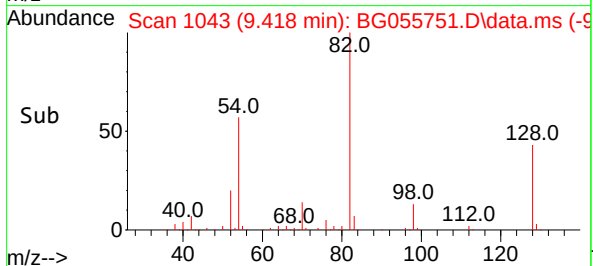
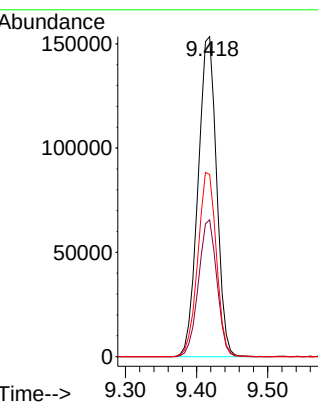
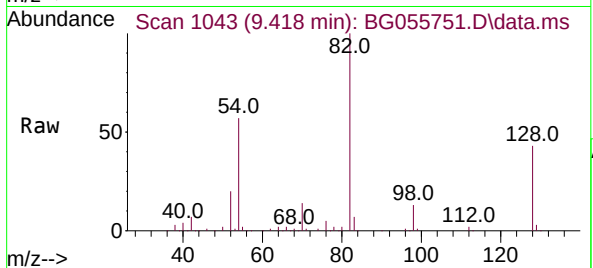
54 56.9 47.3 70.9

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#31

Naphthalene

Concen: 14.458 ng

RT: 11.122 min Scan# 1333

Delta R.T. -0.003 min

Lab File: BG055751.D

Acq: 22 Nov 2022 22:45

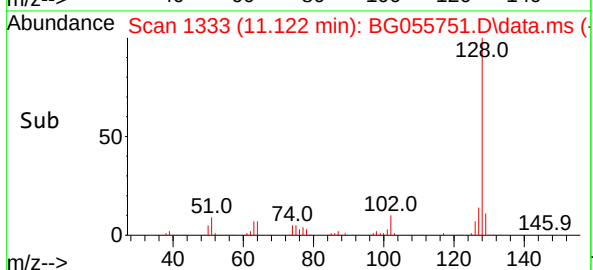
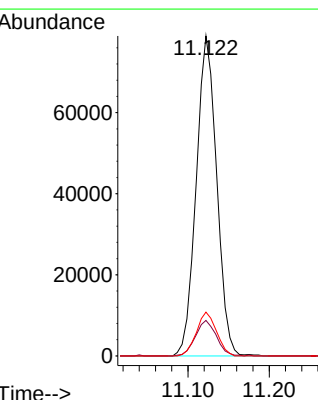
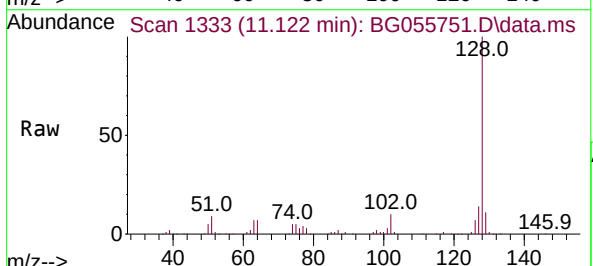
Tgt Ion:128 Resp: 138598

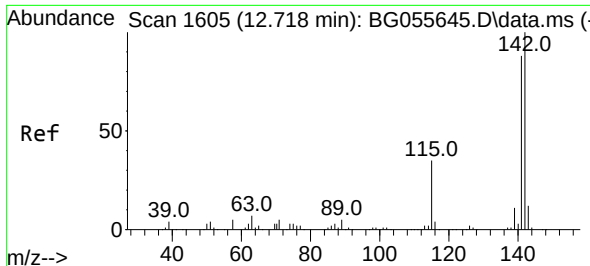
Ion Ratio Lower Upper

128 100

129 11.1 8.7 13.1

127 13.7 10.9 16.3





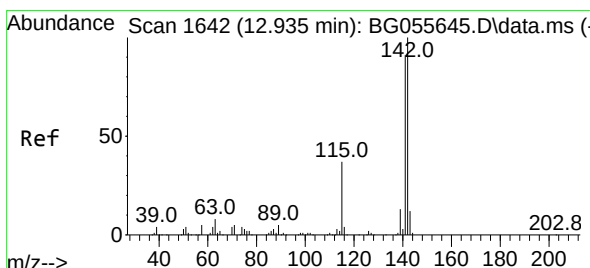
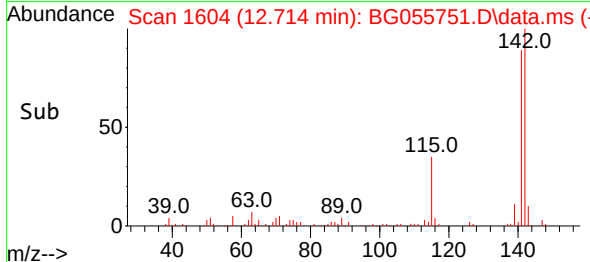
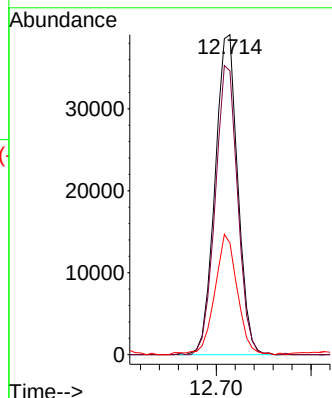
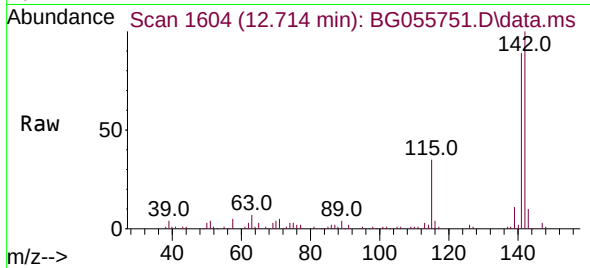
#37
2-Methylnaphthalene
Concen: 9.052 ng
RT: 12.714 min Scan# 1604
Delta R.T. 0.003 min
Lab File: BG055751.D
Acq: 22 Nov 2022 22:45

Instrument :
BNA_G
ClientSampleId :
OR-3-111822

Tgt Ion:142 Resp: 64974
Ion Ratio Lower Upper
142 100
141 88.7 70.3 105.5
115 34.9 27.9 41.9

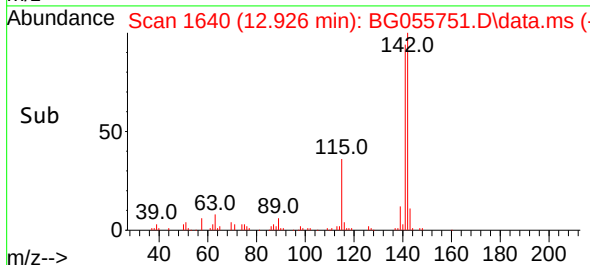
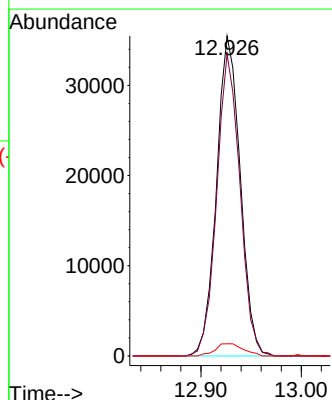
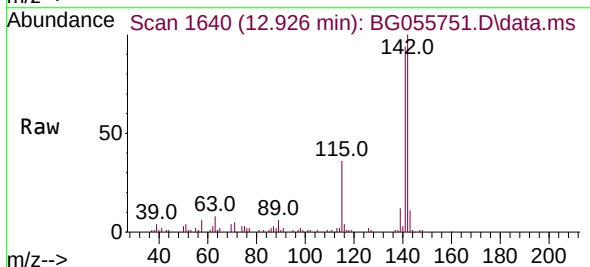
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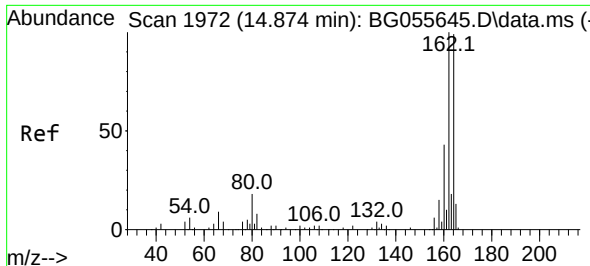
Reviewed By :Christian Giraldo 11/23/2022
Supervised By :Jagrut Upadhyay 11/23/2022



#38
1-Methylnaphthalene
Concen: 8.363 ng
RT: 12.926 min Scan# 1640
Delta R.T. -0.003 min
Lab File: BG055751.D
Acq: 22 Nov 2022 22:45

Tgt Ion:142 Resp: 58273
Ion Ratio Lower Upper
142 100
141 94.3 73.0 109.4
116 3.8 3.1 4.7





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.865 min Scan# 1972
Delta R.T. -0.003 min
Lab File: BG055751.D
Acq: 22 Nov 2022 22:45

Instrument :

BNA_G

ClientSampleId :

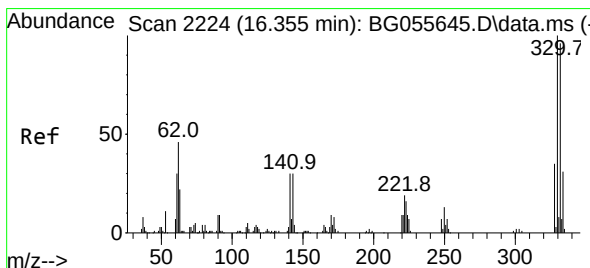
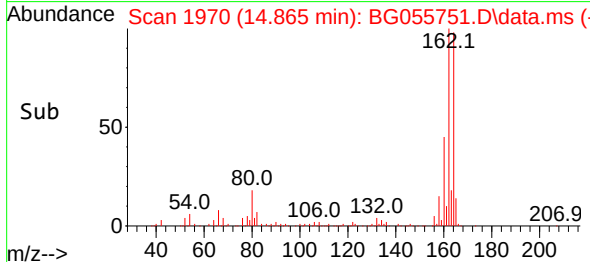
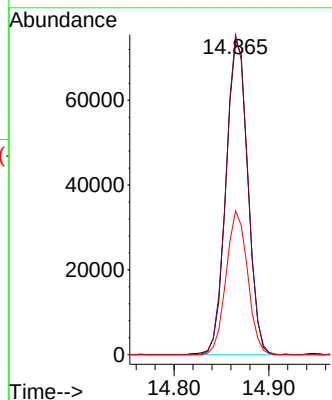
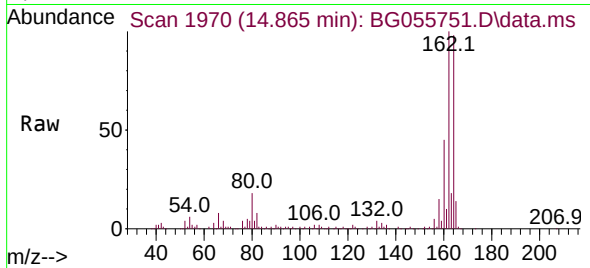
OR-3-111822

Tgt Ion:164 Resp: 118438
Ion Ratio Lower Upper
164 100
162 101.7 81.1 121.7
160 45.7 34.8 52.2

Manual Integrations

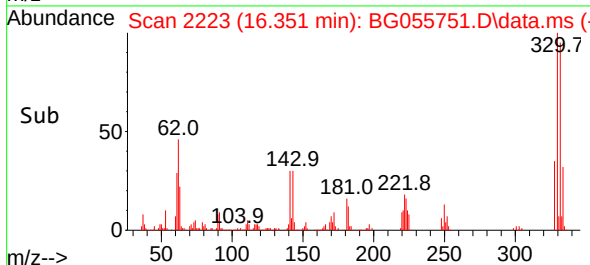
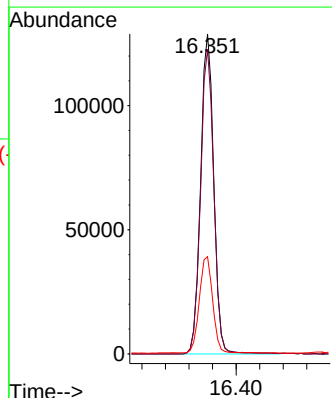
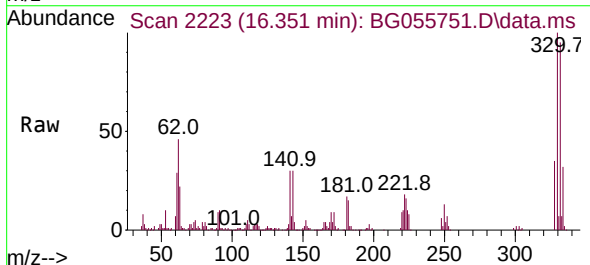
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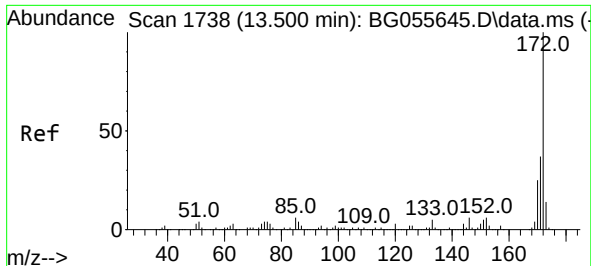
Reviewed By :Christian Giraldo 11/23/2022
Supervised By :Jagrut Upadhyay 11/23/2022



#42
2,4,6-Tribromophenol
Concen: 119.571 ng
RT: 16.351 min Scan# 2223
Delta R.T. 0.003 min
Lab File: BG055751.D
Acq: 22 Nov 2022 22:45

Tgt Ion:330 Resp: 199415
Ion Ratio Lower Upper
330 100
332 95.6 77.8 116.8
141 31.1 23.9 35.9





#45

2-Fluorobiphenyl

Concen: 82.234 ng

RT: 13.490 min Scan# 1736

Delta R.T. -0.003 min

Lab File: BG055751.D

Acq: 22 Nov 2022 22:45

Instrument :

BNA_G

ClientSampleId :

OR-3-111822

Tgt Ion:172 Resp: 65011

Ion Ratio Lower Upper

172 100

171 37.0 29.8 44.6

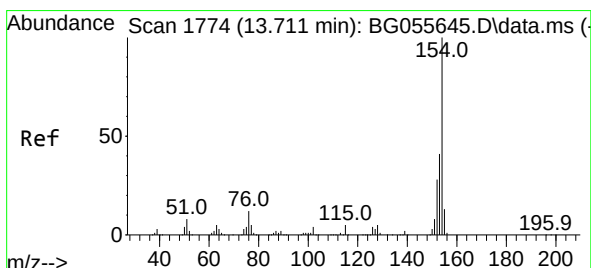
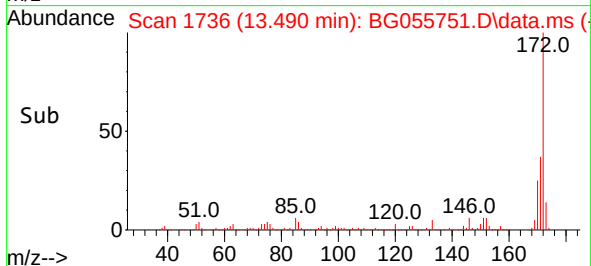
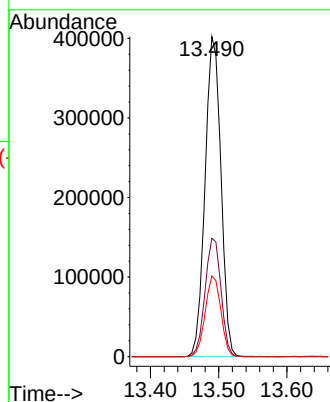
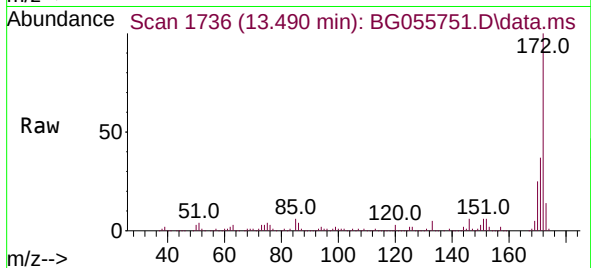
170 25.2 20.2 30.4

Manual Integrations

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Reviewed By :Christian Giraldo 11/23/2022

Supervised By :Jagrut Upadhyay 11/23/2022



#46

1,1'-Biphenyl

Concen: 2.218 ng

RT: 13.702 min Scan# 1772

Delta R.T. -0.003 min

Lab File: BG055751.D

Acq: 22 Nov 2022 22:45

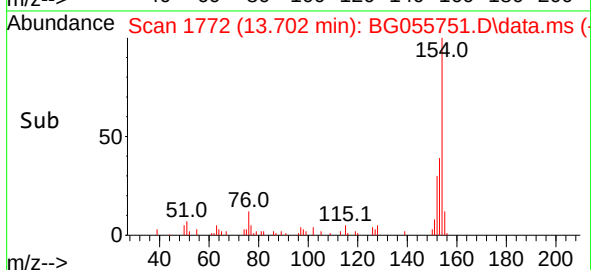
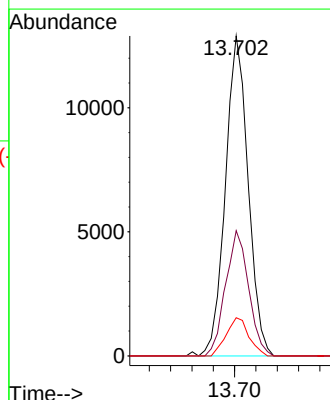
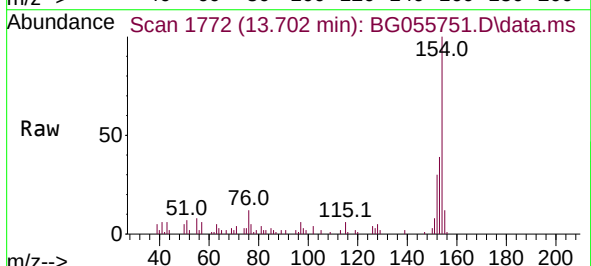
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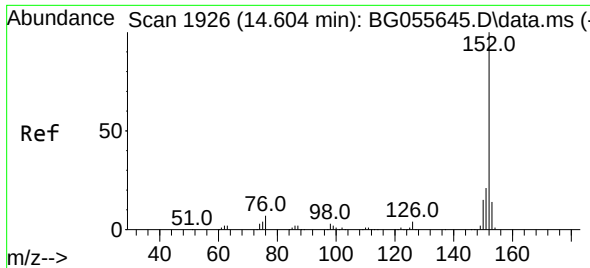
Ion Ratio Lower Upper

154 100

153 39.1 20.6 60.6

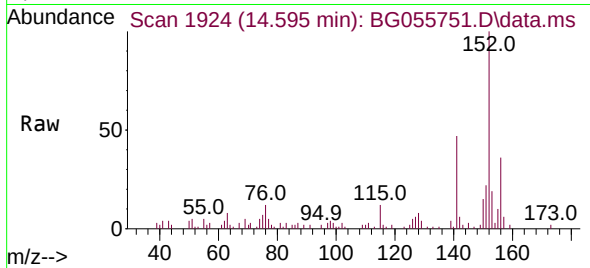
76 11.9 0.0 32.4





#49
Acenaphthylene
Concen: 3.187 ng
RT: 14.595 min Scan# 1924
Delta R.T. 0.003 min
Lab File: BG055751.D
Acq: 22 Nov 2022 22:45

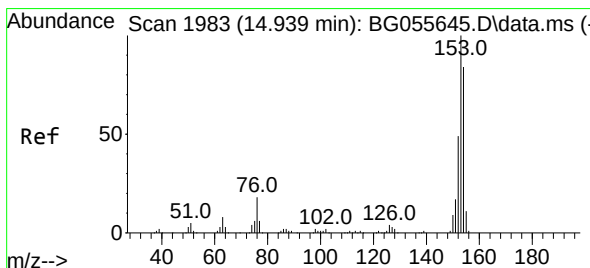
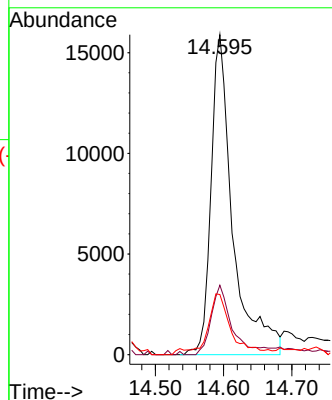
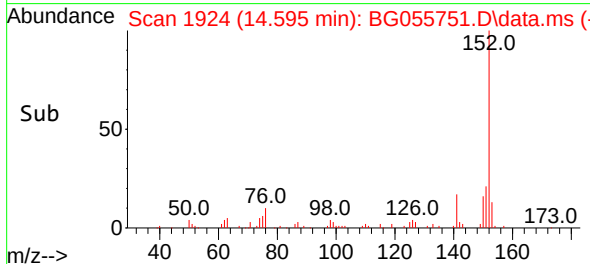
Instrument :
BNA_G
ClientSampleId :
OR-3-111822



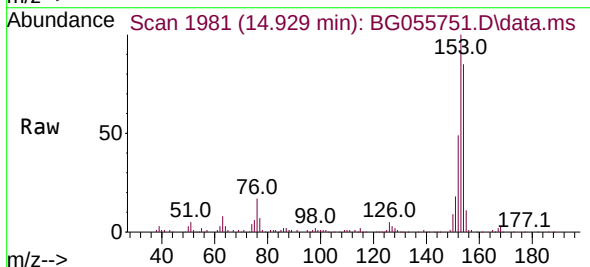
Tgt Ion:152 Resp: 35208
Ion Ratio Lower Upper
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153 18.8 11.0 16.4

Manual Integrations
APPROVED

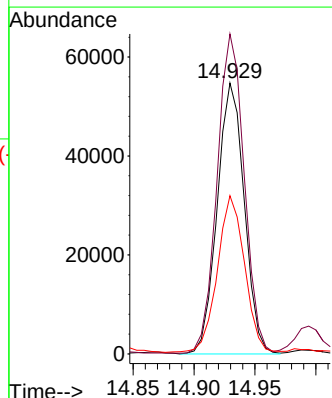
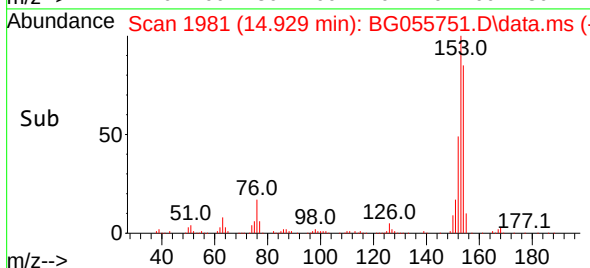
Reviewed By :Christian Giraldo 11/23/2022
Supervised By :Jagrut Upadhyay 11/23/2022

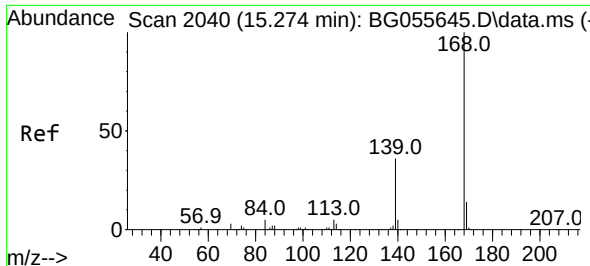


#52
Acenaphthene
Concen: 11.707 ng
RT: 14.929 min Scan# 1981
Delta R.T. -0.003 min
Lab File: BG055751.D
Acq: 22 Nov 2022 22:45



Tgt Ion:154 Resp: 84522
Ion Ratio Lower Upper
154 100
153 118.2 95.0 142.4
152 58.4 46.1 69.1





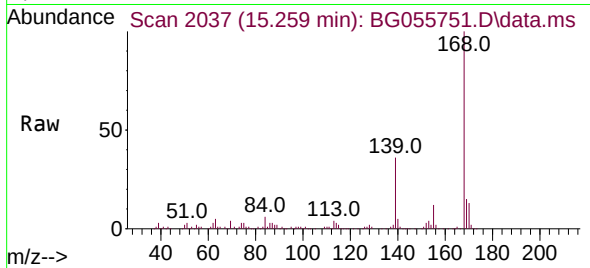
#55
Dibenzenofuran
Concen: 10.716 ng
RT: 15.259 min Scan# 2040
Delta R.T. -0.003 min
Lab File: BG055751.D
Acq: 22 Nov 2022 22:45

Instrument :

BNA_G

ClientSampleId :

OR-3-111822

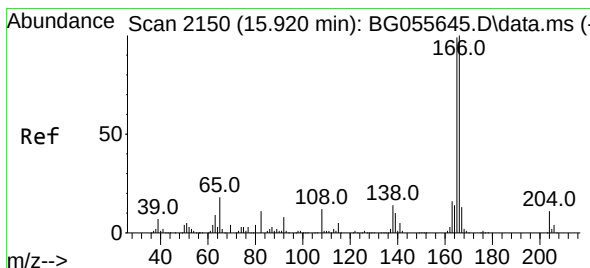
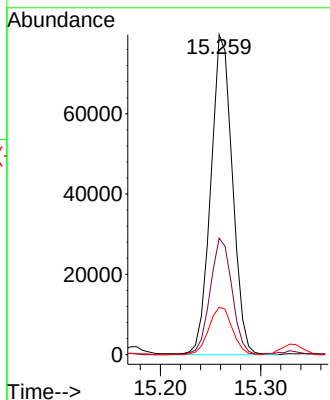
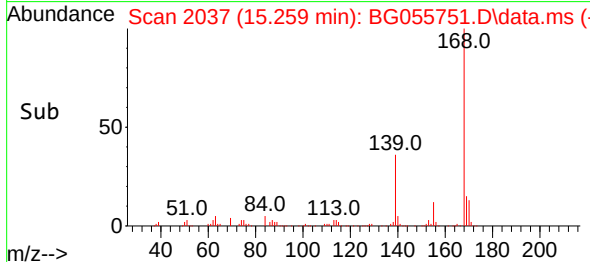


Tgt Ion:168 Resp: 119356
Ion Ratio Lower Upper
168 100
139 36.4 28.8 43.2
169 14.8 11.0 16.4

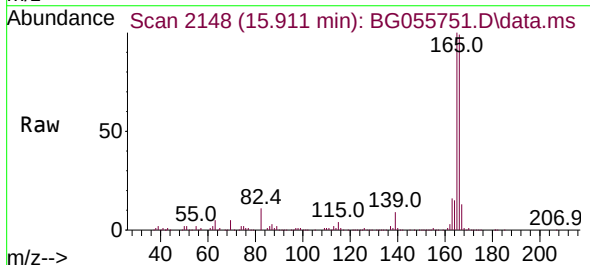
Manual Integrations

APPROVED

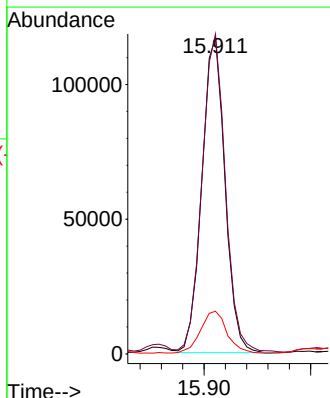
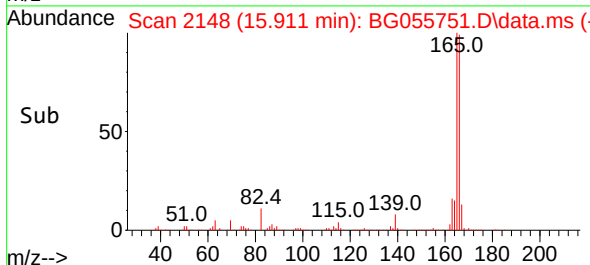
Reviewed By :Christian Giraldo 11/23/2022
Supervised By :Jagrut Upadhyay 11/23/2022

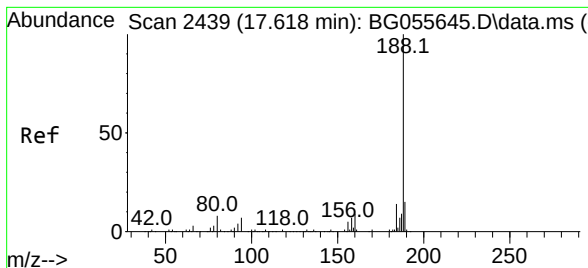


#58
Fluorene
Concen: 19.754 ng
RT: 15.911 min Scan# 2148
Delta R.T. 0.003 min
Lab File: BG055751.D
Acq: 22 Nov 2022 22:45



Tgt Ion:166 Resp: 175731
Ion Ratio Lower Upper
166 100
165 101.2 79.3 118.9
167 13.5 10.6 15.8





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.609 min Scan# 2439
Delta R.T. 0.003 min
Lab File: BG055751.D
Acq: 22 Nov 2022 22:45

Instrument :

BNA_G

ClientSampleId :

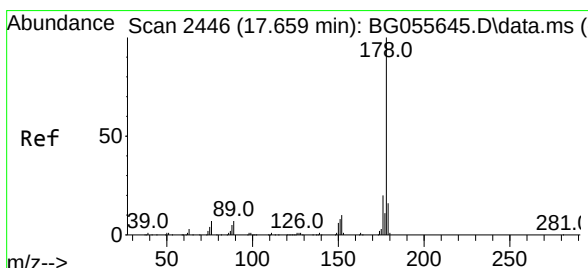
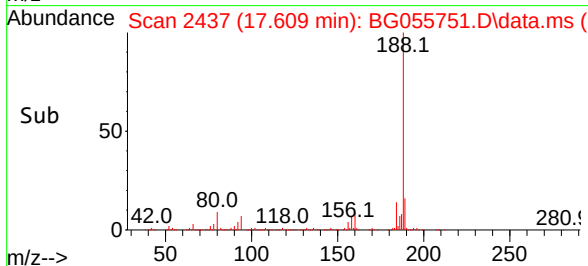
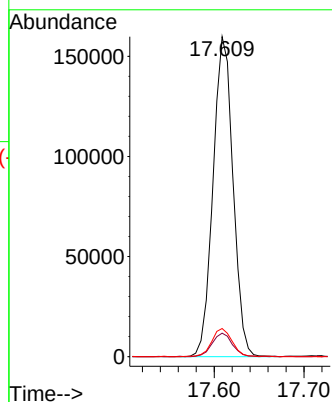
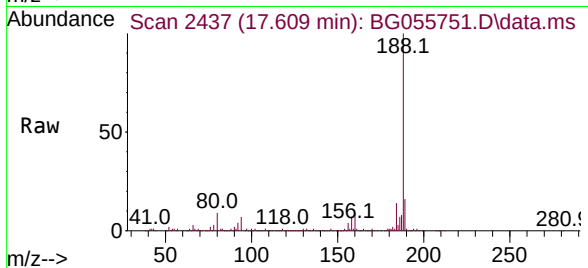
OR-3-111822

Tgt Ion:188 Resp: 247552
Ion Ratio Lower Upper
188 100
94 7.3 5.4 8.2
80 8.8 6.6 10.0

Manual Integrations

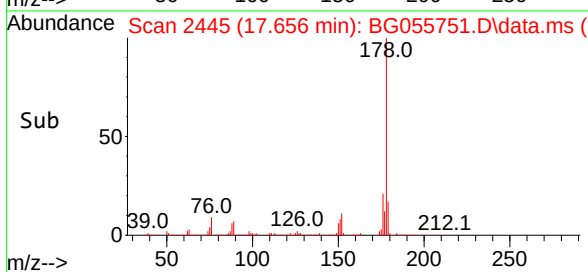
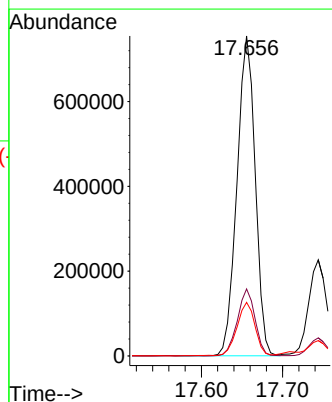
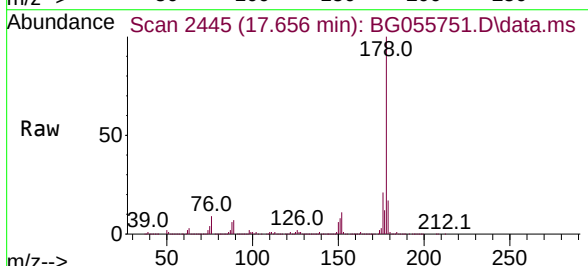
APPROVED

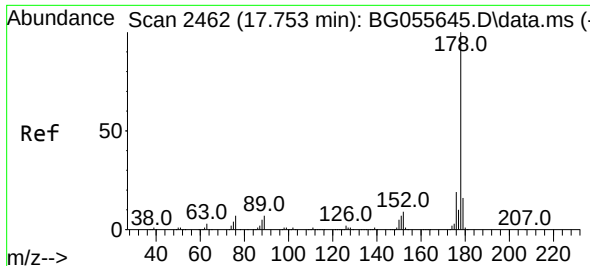
Reviewed By :Christian Giraldo 11/23/2022
Supervised By :Jagrut Upadhyay 11/23/2022



#71
Phenanthrene
Concen: 88.248 ng
RT: 17.656 min Scan# 2445
Delta R.T. 0.003 min
Lab File: BG055751.D
Acq: 22 Nov 2022 22:45

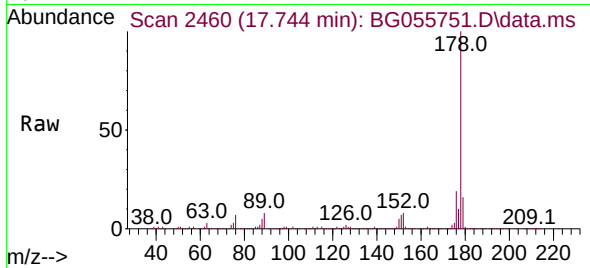
Tgt Ion:178 Resp: 1178921
Ion Ratio Lower Upper
178 100
176 20.9 16.0 24.0
179 16.7 12.7 19.1





#72
 Anthracene
 Concen: 25.915 ng
 RT: 17.744 min Scan# 2462
 Delta R.T. 0.003 min
 Lab File: BG055751.D
 Acq: 22 Nov 2022 22:45

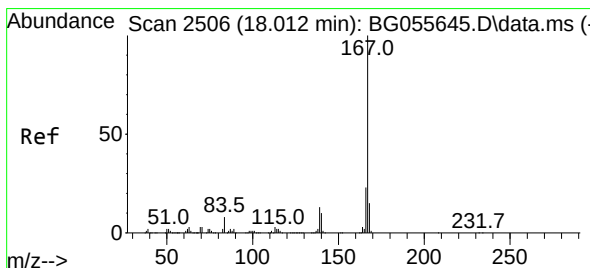
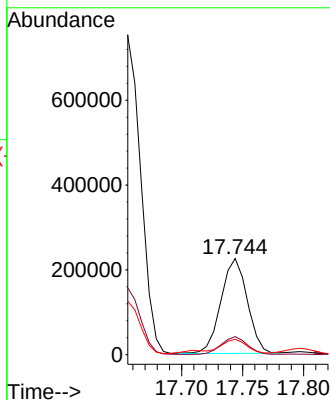
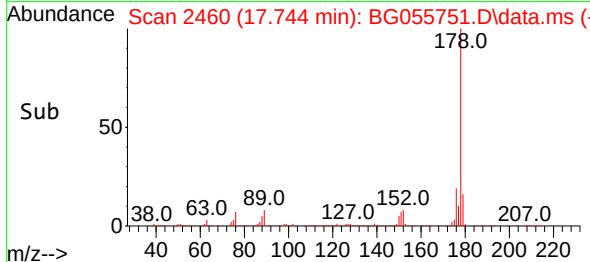
Instrument :
 BNA_G
 ClientSampleId :
 OR-3-111822



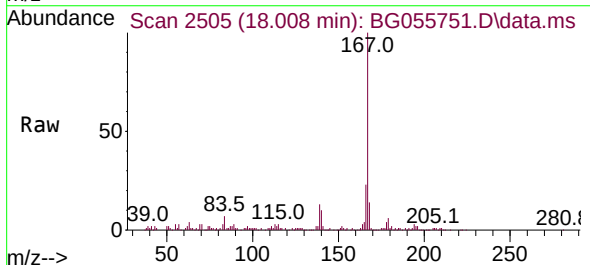
Tgt Ion:178 Resp: 336375
 Ion Ratio Lower Upper
 178 100
 176 18.7 15.5 23.3
 179 16.0 12.5 18.7

Manual Integrations
 APPROVED

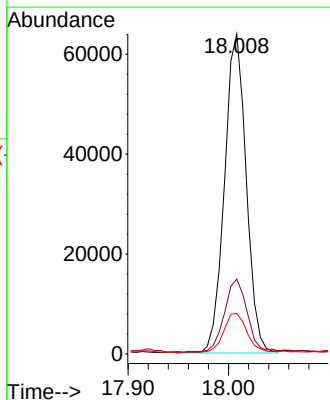
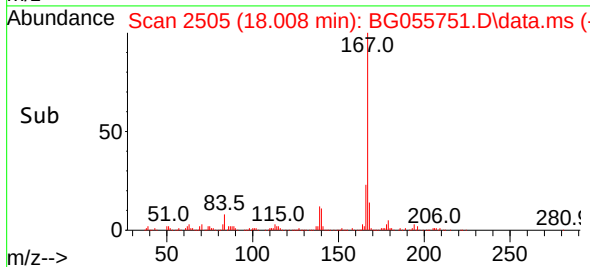
Reviewed By :Christian Giraldo 11/23/2022
 Supervised By :Jagrut Upadhyay 11/23/2022

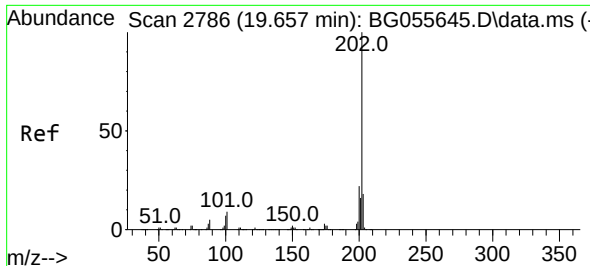


#73
 Carbazole
 Concen: 8.250 ng
 RT: 18.008 min Scan# 2505
 Delta R.T. 0.003 min
 Lab File: BG055751.D
 Acq: 22 Nov 2022 22:45



Tgt Ion:167 Resp: 96268
 Ion Ratio Lower Upper
 167 100
 166 23.4 18.2 27.2
 139 12.6 10.2 15.4





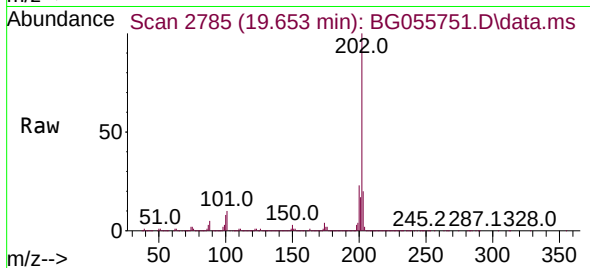
#75
Fluoranthene
Concen: 79.324 ng
RT: 19.653 min Scan# 21
Delta R.T. 0.009 min
Lab File: BG055751.D
Acq: 22 Nov 2022 22:45

Instrument :

BNA_G

ClientSampleId :

OR-3-111822

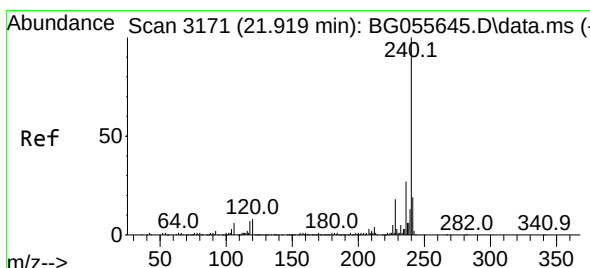
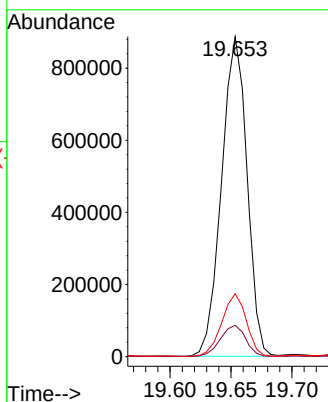
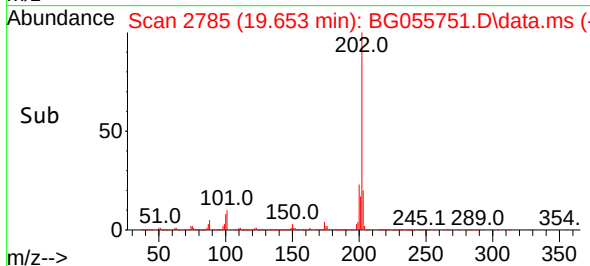


Tgt Ion:202 Resp: 1289214
Ion Ratio Lower Upper
202 100
101 9.8 0.0 28.8
203 19.6 0.0 38.1

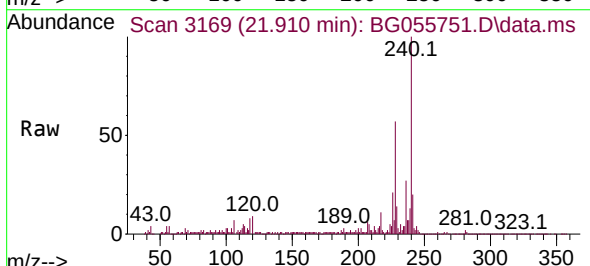
Manual Integrations

APPROVED

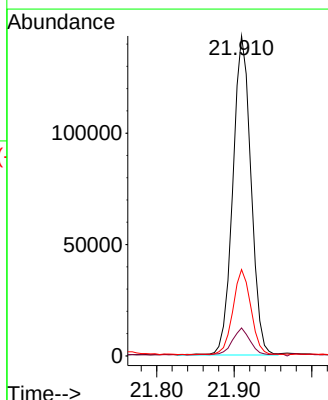
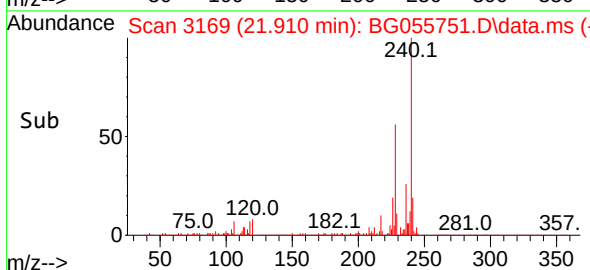
Reviewed By :Christian Giraldo 11/23/2022
Supervised By :Jagrut Upadhyay 11/23/2022

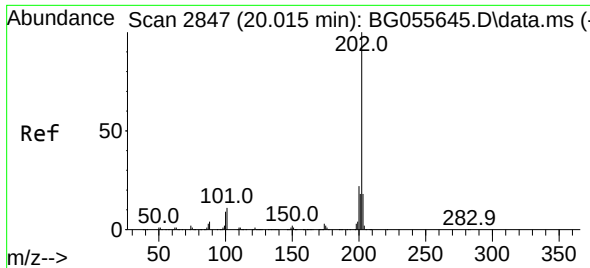


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.910 min Scan# 3169
Delta R.T. 0.003 min
Lab File: BG055751.D
Acq: 22 Nov 2022 22:45



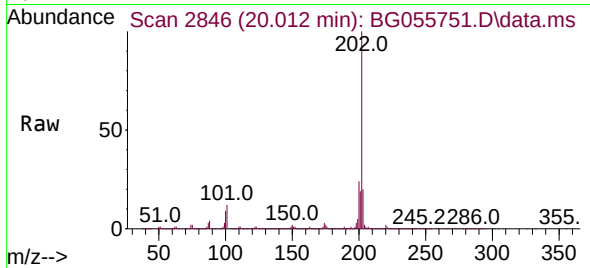
Tgt Ion:240 Resp: 233171
Ion Ratio Lower Upper
240 100
120 8.7 6.3 9.5
236 27.0 21.9 32.9





#78
Pyrene
Concen: 75.726 ng
RT: 20.012 min Scan# 2847
Delta R.T. 0.003 min
Lab File: BG055751.D
Acq: 22 Nov 2022 22:45

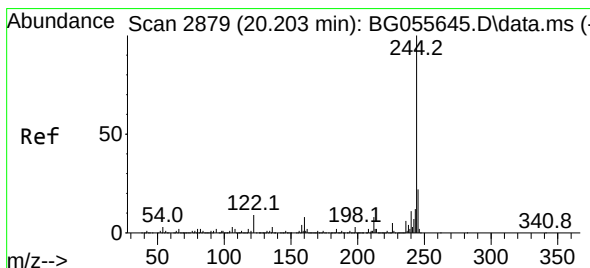
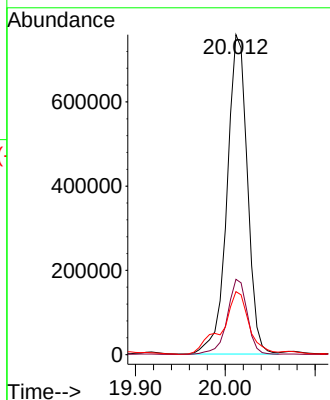
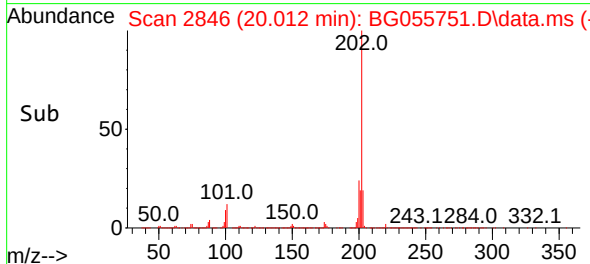
Instrument :
BNA_G
ClientSampleId :
OR-3-111822



Tgt Ion:202 Resp: 1195175
Ion Ratio Lower Upper
202 100
200 23.5 17.8 26.6
203 19.7 14.4 21.6

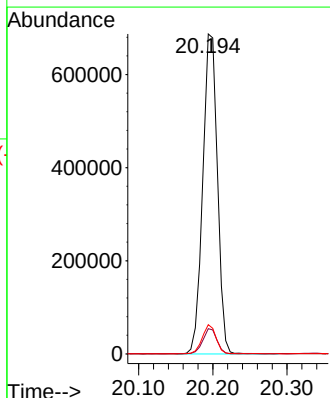
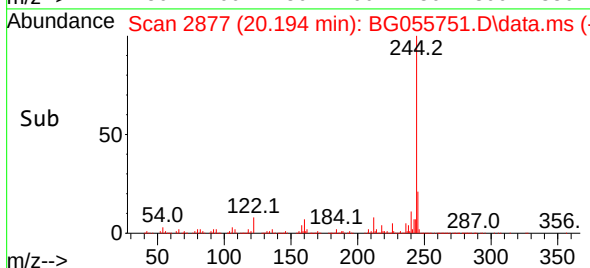
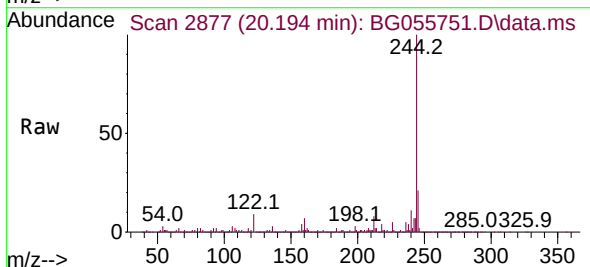
Manual Integrations
APPROVED

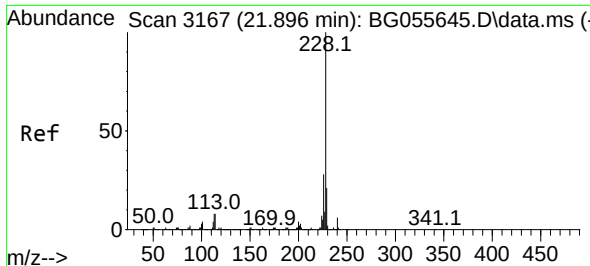
Reviewed By :Christian Giraldo 11/23/2022
Supervised By :Jagrut Upadhyay 11/23/2022



#79
Terphenyl-d14
Concen: 80.915 ng
RT: 20.194 min Scan# 2877
Delta R.T. 0.003 min
Lab File: BG055751.D
Acq: 22 Nov 2022 22:45

Tgt Ion:244 Resp: 943294
Ion Ratio Lower Upper
244 100
212 7.9 6.3 9.5
122 9.1 6.9 10.3





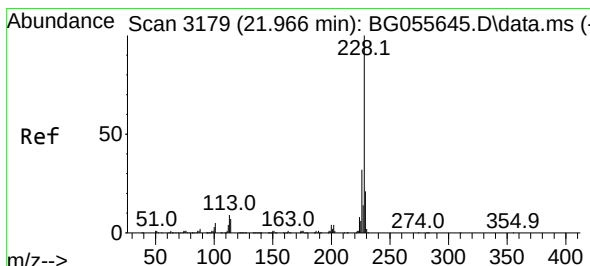
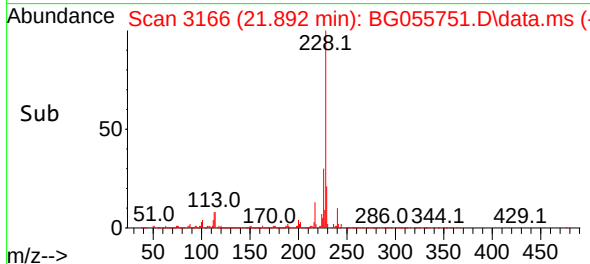
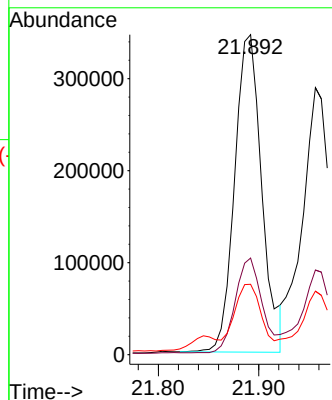
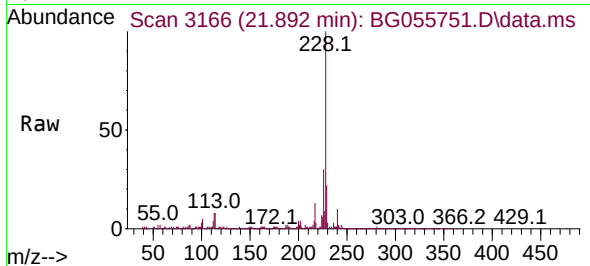
#81
Benzo(a)anthracene
Concen: 40.261 ng
RT: 21.892 min Scan# 3167
Delta R.T. 0.009 min
Lab File: BG055751.D
Acq: 22 Nov 2022 22:45

Instrument :
BNA_G
ClientSampleId :
OR-3-111822

Tgt Ion:228 Resp: 646584
Ion Ratio Lower Upper
228 100
226 30.2 22.7 34.1
229 22.0 16.5 24.7

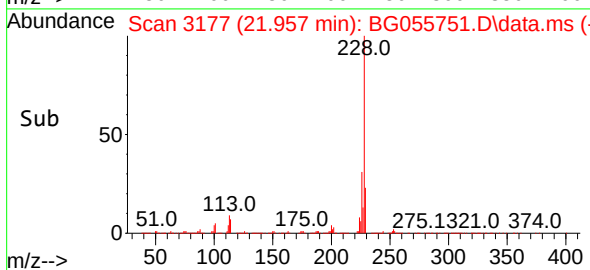
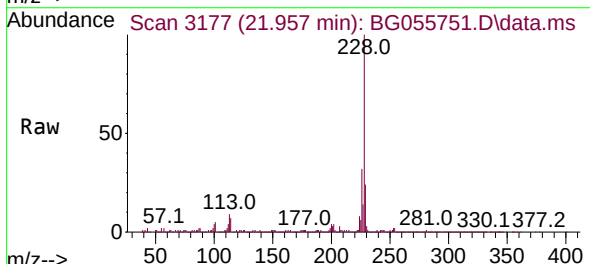
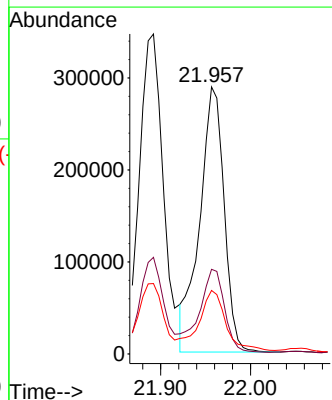
Manual Integrations
APPROVED

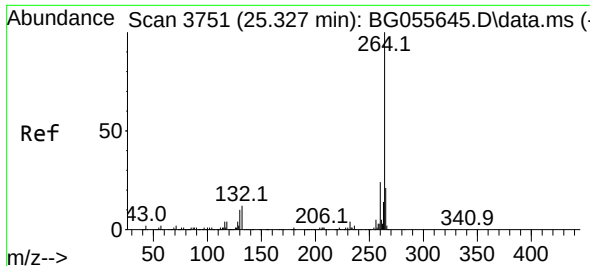
Reviewed By :Christian Giraldo 11/23/2022
Supervised By :Jagrut Upadhyay 11/23/2022



#83
Chrysene
Concen: 35.773 ng
RT: 21.957 min Scan# 3177
Delta R.T. 0.003 min
Lab File: BG055751.D
Acq: 22 Nov 2022 22:45

Tgt Ion:228 Resp: 546922
Ion Ratio Lower Upper
228 100
226 31.7 25.4 38.2
229 23.8 17.1 25.7





#86
Perylene-d12
Concen: 20.000 ng
RT: 25.323 min Scan# 31
Delta R.T. 0.021 min
Lab File: BG055751.D
Acq: 22 Nov 2022 22:45

Instrument :

BNA_G

ClientSampleId :

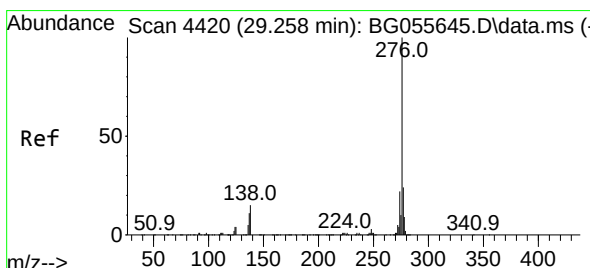
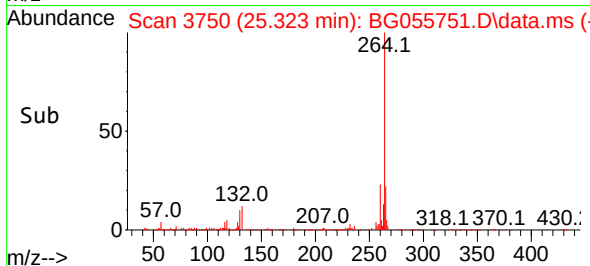
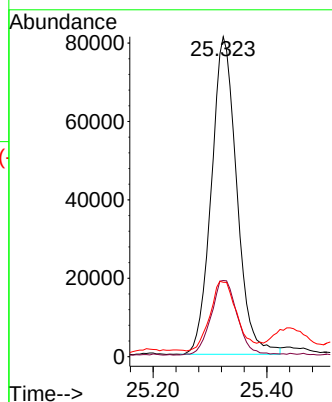
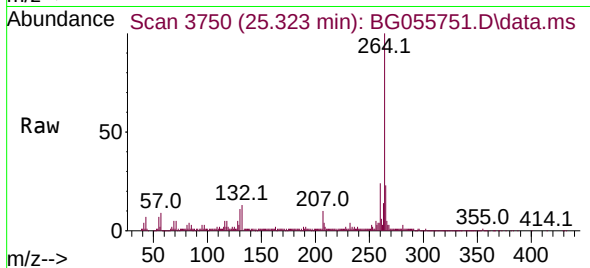
OR-3-111822

Tgt Ion:264 Resp: 251086
Ion Ratio Lower Upper
264 100
260 23.8 19.5 29.3
265 23.2 17.1 25.7

Manual Integrations

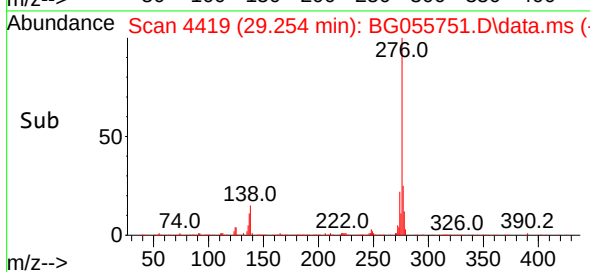
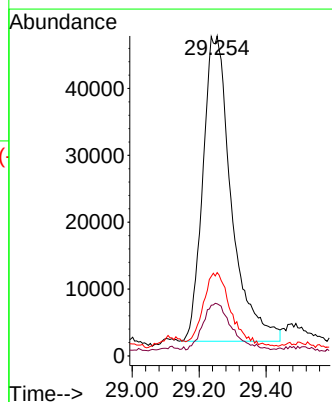
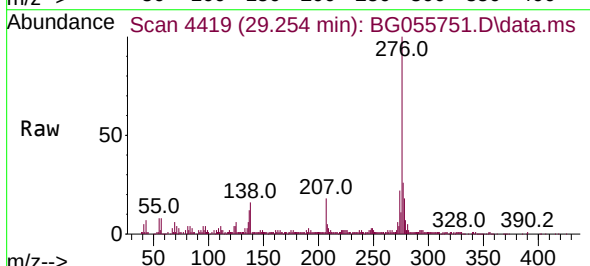
APPROVED

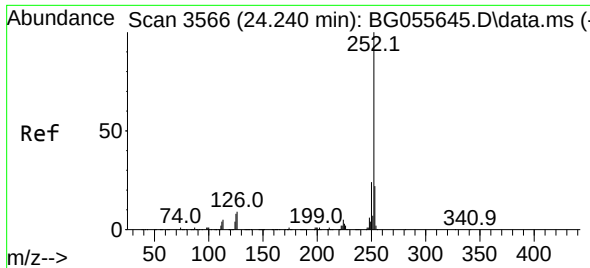
Reviewed By :Christian Giraldo 11/23/2022
Supervised By :Jagrut Upadhyay 11/23/2022



#87
Indeno(1,2,3-cd)pyrene
Concen: 13.113 ng
RT: 29.254 min Scan# 4419
Delta R.T. 0.021 min
Lab File: BG055751.D
Acq: 22 Nov 2022 22:45

Tgt Ion:276 Resp: 269738
Ion Ratio Lower Upper
276 100
138 15.5 10.4 15.6
277 21.5 20.2 30.4





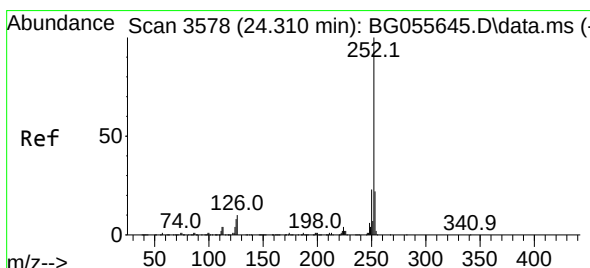
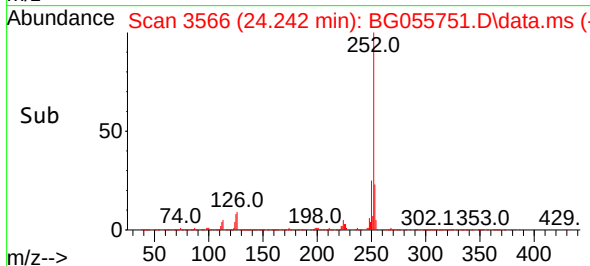
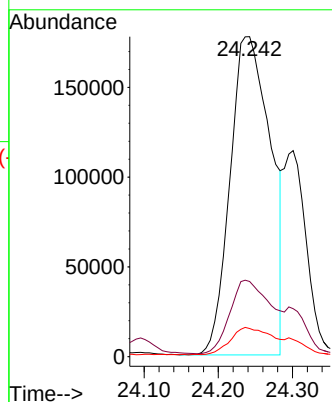
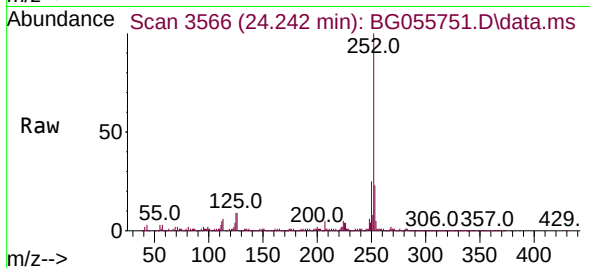
#88
Benzo(b)fluoranthene
Concen: 41.259 ng
RT: 24.242 min Scan# 3566
Delta R.T. 0.021 min
Lab File: BG055751.D
Acq: 22 Nov 2022 22:45

Instrument :
BNA_G
ClientSampleId :
OR-3-111822

Tgt Ion:252 Resp: 674673
Ion Ratio Lower Upper
252 100
253 23.5 18.0 27.0
125 8.8 6.2 9.2

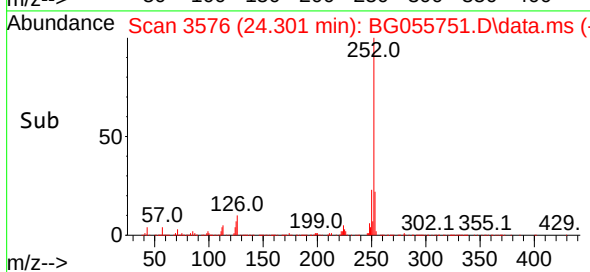
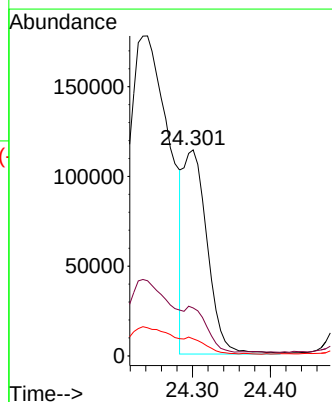
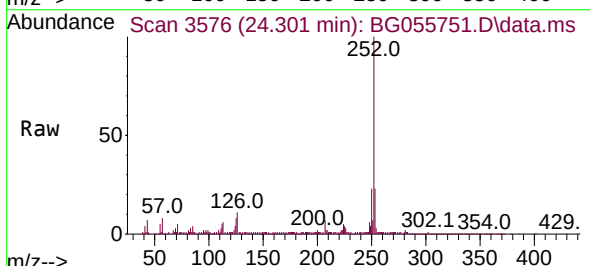
Manual Integrations
APPROVED

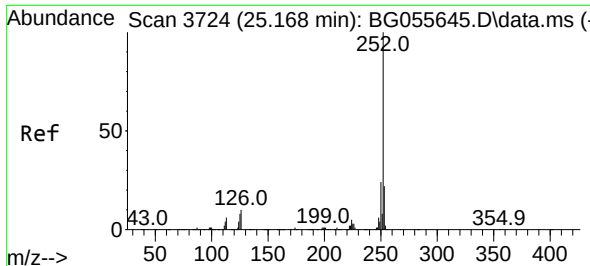
Reviewed By :Christian Giraldo 11/23/2022
Supervised By :Jagrut Upadhyay 11/23/2022



#89
Benzo(k)fluoranthene
Concen: 14.918 ng m
RT: 24.301 min Scan# 3576
Delta R.T. 0.009 min
Lab File: BG055751.D
Acq: 22 Nov 2022 22:45

Tgt Ion:252 Resp: 243159
Ion Ratio Lower Upper
252 100
253 23.2 17.8 26.6
125 8.3 6.1 9.1





#90

Benzo(a)pyrene

Concen: 38.780 ng

RT: 25.165 min Scan# 31

Delta R.T. 0.015 min

Lab File: BG055751.D

Acq: 22 Nov 2022 22:45

Instrument :

BNA_G

ClientSampleId :

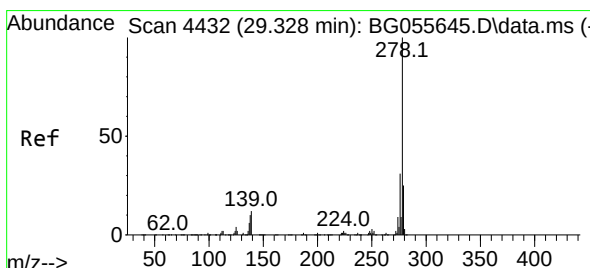
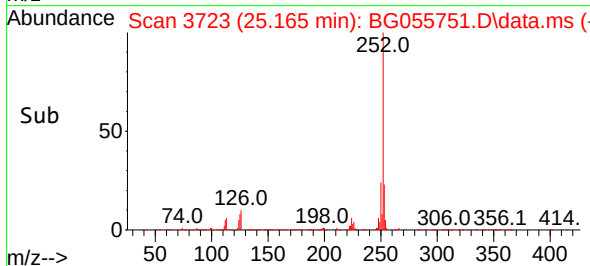
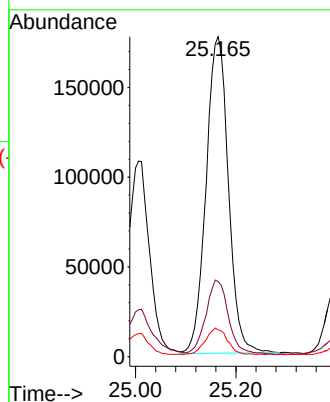
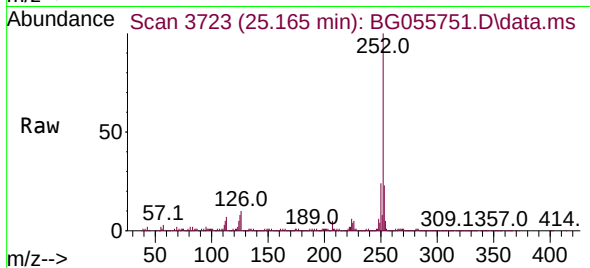
OR-3-111822

Tgt Ion:252 Resp: 544162
 Ion Ratio Lower Upper
 252 100
 253 23.4 17.8 26.6
 125 8.4 6.4 9.6

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 11/23/2022
 Supervised By :Jagrut Upadhyay 11/23/2022



#91

Dibenzo(a,h)anthracene

Concen: 4.439 ng m

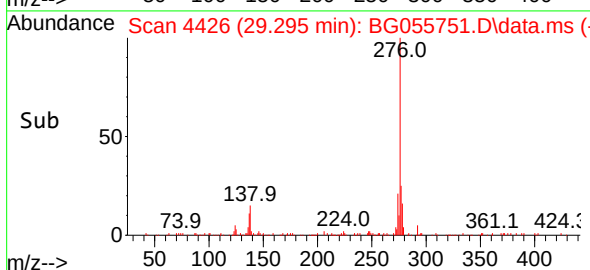
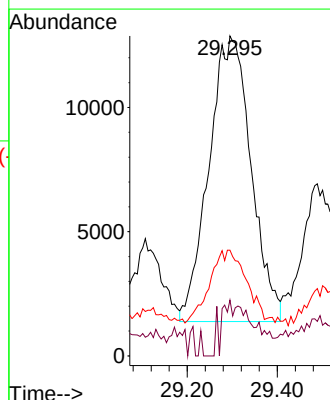
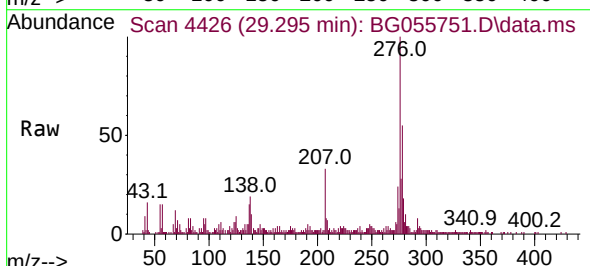
RT: 29.295 min Scan# 4426

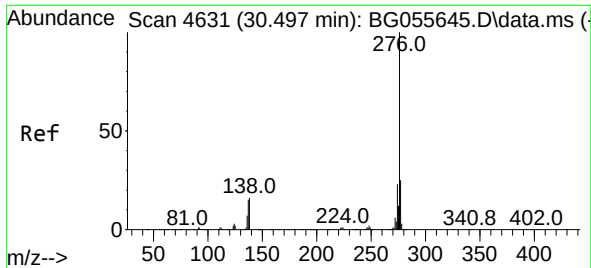
Delta R.T. 0.003 min

Lab File: BG055751.D

Acq: 22 Nov 2022 22:45

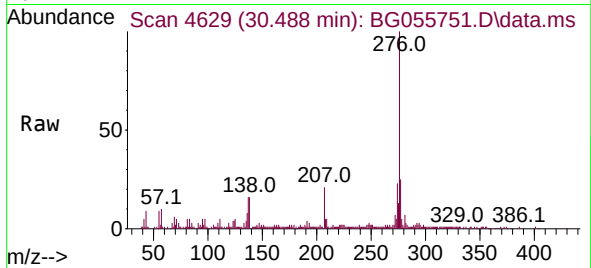
Tgt Ion:278 Resp: 74609
 Ion Ratio Lower Upper
 278 100
 139 17.4 9.8 14.8#
 279 33.0 19.8 29.6#





#92
 Benzo(g,h,i)perylene
 Concen: 15.727 ng
 RT: 30.488 min Scan# 4629
 Delta R.T. 0.027 min
 Lab File: BG055751.D
 Acq: 22 Nov 2022 22:45

Instrument :
 BNA_G
 ClientSampleId :
 OR-3-111822



Tgt Ion: 276 Resp: 266446

Ion	Ratio	Lower	Upper
276	100		
277	25.2	19.8	29.6
138	16.1	13.1	19.7

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 11/23/2022
 Supervised By : Jagrut Upadhyay 11/23/2022

