

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040522\
 Data File : BG053045.D
 Acq On : 5 Apr 2022 23:44
 Operator : CG/JU
 Sample : N2257-01 5X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 TP-1

Quant Time: Apr 06 04:16:05 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG031522.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Apr 05 14:24:42 2022
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Christian Giraldo 04/06/2022
 Supervised By : Jagrut Upadhyay 04/06/2022

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.135	152	55548	20.000	ng	-0.01
21) Naphthalene-d8	10.943	136	222195	20.000	ng	-0.02
39) Acenaphthene-d10	14.749	164	148711	20.000	ng	-0.02
64) Phenanthrene-d10	17.493	188	294916	20.000	ng	-0.01
76) Chrysene-d12	21.781	240	258435	20.000	ng	#-0.02
86) Perylene-d12	25.088	264	277365	20.000	ng	#-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.691	112	48973	15.354	ng	0.00
7) Phenol-d6	7.283	99	76335	15.874	ng	0.00
23) Nitrobenzene-d5	9.286	82	54597	12.333	ng	-0.02
42) 2,4,6-Tribromophenol	16.230	330	28439	14.232	ng	-0.02
45) 2-Fluorobiphenyl	13.375	172	100484	9.966	ng	-0.02
79) Terphenyl-d14	20.089	244	117658	8.099	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	10.990	128	78789	6.857	ng	98
37) 2-Methylnaphthalene	12.588	142	21797	2.590	ng	93
38) 1-Methylnaphthalene	12.805	142	18123m	2.207	ng	
49) Acenaphthylene	14.473	152	41392	3.170	ng	93
52) Acenaphthene	14.814	154	22443	2.683	ng	99
55) Dibenzofuran	15.143	168	56119	4.109	ng	99
58) Fluorene	15.795	166	59325	5.328	ng	97
71) Phenanthrene	17.534	178	726221	46.030	ng	98
72) Anthracene	17.628	178	130857	8.390	ng	99
73) Carbazole	17.892	167	59717	3.866	ng	94
75) Fluoranthene	19.543	202	848527	42.369	ng	99
78) Pyrene	19.907	202	777529	43.373	ng	99
81) Benzo(a)anthracene	21.757	228	392602	22.687	ng	98
83) Chrysene	21.828	228	362762	22.298	ng	96
87) Indeno(1,2,3-cd)pyrene	28.865	276	186075	9.801	ng	# 95
88) Benzo(b)fluoranthene	24.043	252	452014	26.247	ng	98
89) Benzo(k)fluoranthene	24.090	252	151360m	8.933	ng	
90) Benzo(a)pyrene	24.936	252	351950	24.143	ng	99
91) Dibenzo(a,h)anthracene	28.907	278	47545m	3.039	ng	
92) Benzo(g,h,i)perylene	30.058	276	164702m	10.641	ng	

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

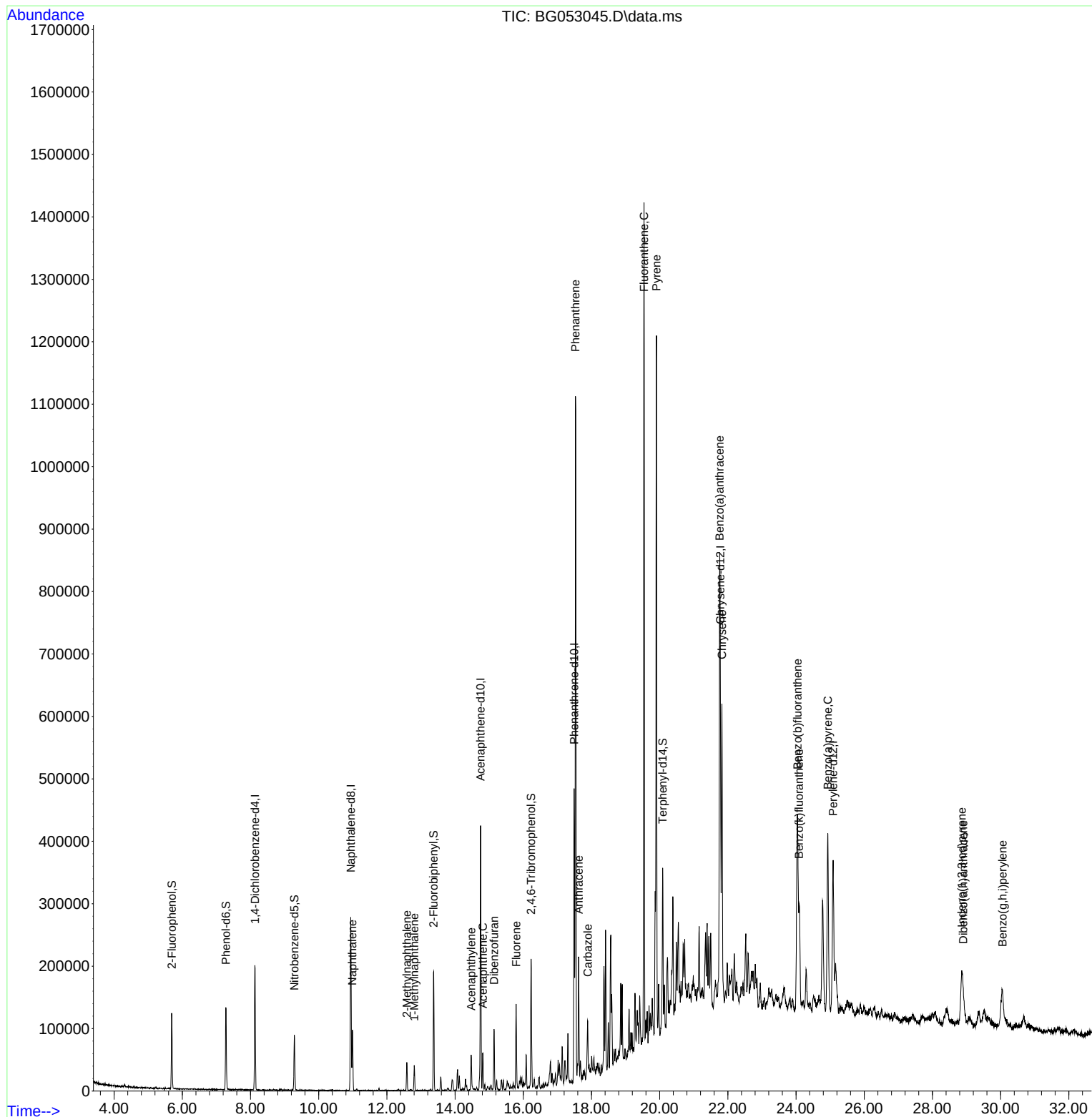
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040522\
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ALS Vial : 13 Sample Multiplier: 1

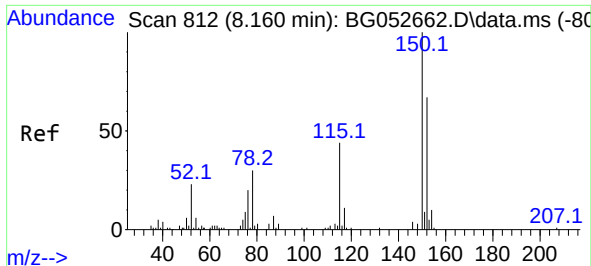
Instrument :
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TP-1

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QLast Update : Tue Apr 05 14:24:42 2022
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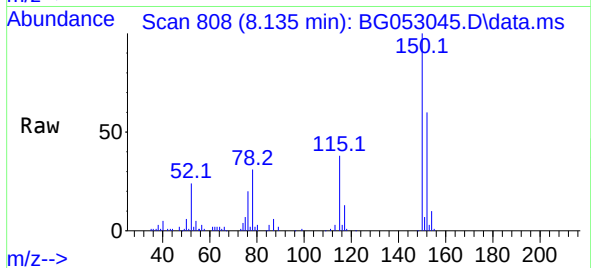
Reviewed By : Christian Giraldo 04/06/2022
Supervised By : Jagrut Upadhyay 04/06/2022





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.135 min Scan# 808
Delta R.T. -0.011 min
Lab File: BG053045.D
Acq: 5 Apr 2022 23:44

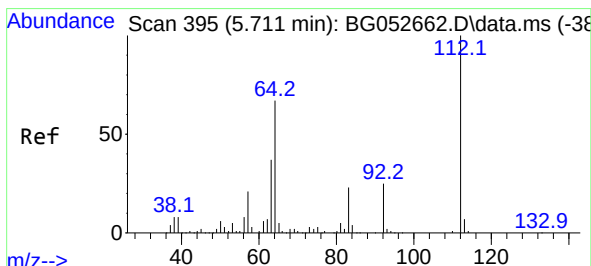
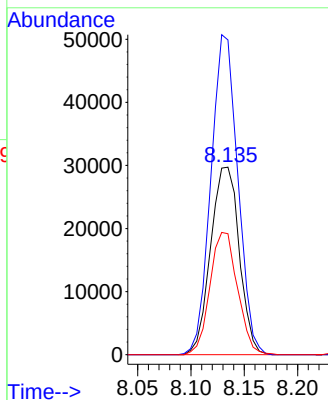
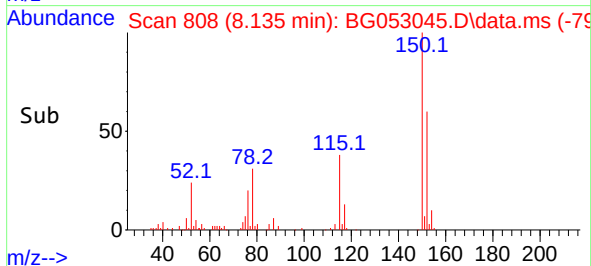
Instrument :
BNA_G
ClientSampleId :
TP-1



Tgt Ion:152 Resp: 55548
Ion Ratio Lower Upper
152 100
150 167.8 114.6 172.0
115 64.5 45.9 68.9

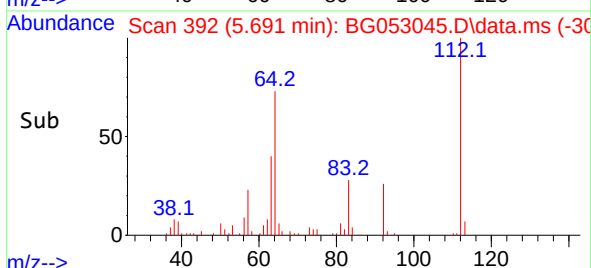
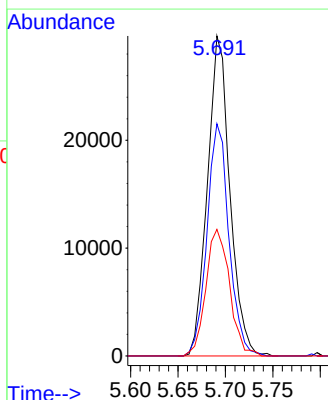
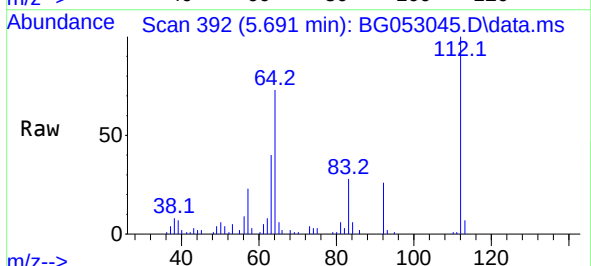
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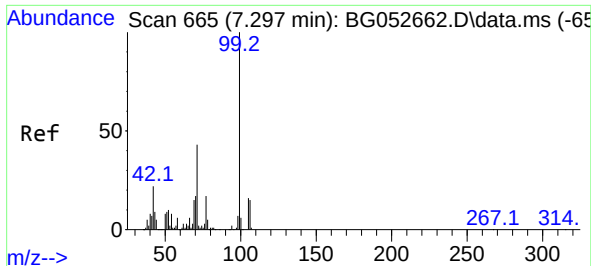
Reviewed By :Christian Giraldo 04/06/2022
Supervised By :Jagrut Upadhyay 04/06/2022



#5
2-Fluorophenol
Concen: 15.354 ng
RT: 5.691 min Scan# 392
Delta R.T. -0.006 min
Lab File: BG053045.D
Acq: 5 Apr 2022 23:44

Tgt Ion:112 Resp: 48973
Ion Ratio Lower Upper
112 100
64 72.6 48.0 72.0#
63 39.6 26.5 39.7





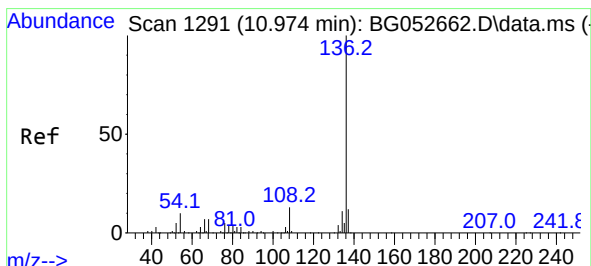
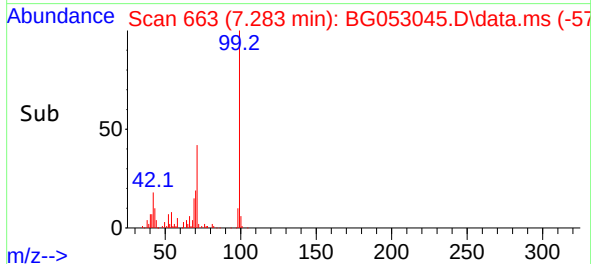
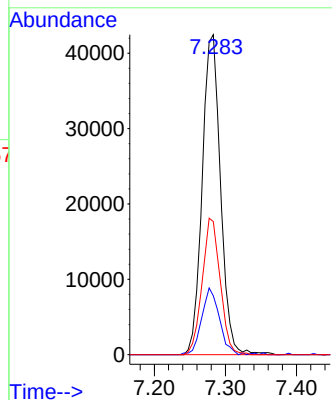
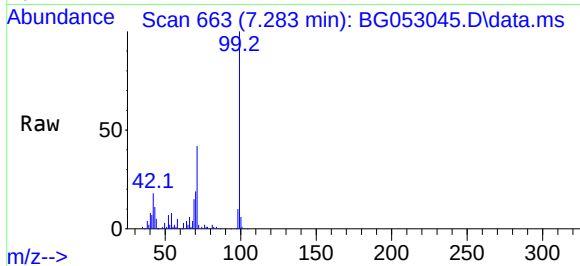
#7
Phenol-d6
Concen: 15.874 ng
RT: 7.283 min Scan# 60
Delta R.T. -0.006 min
Lab File: BG053045.D
Acq: 5 Apr 2022 23:44

Instrument :
BNA_G
ClientSampleId :
TP-1

Tgt Ion: 99 Resp: 7633
Ion Ratio Lower Upper
99 100
42 18.4 14.7 22.1
71 41.6 29.2 43.8

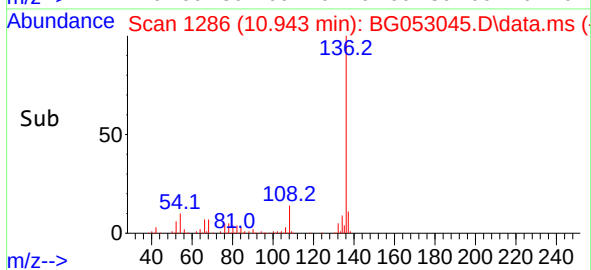
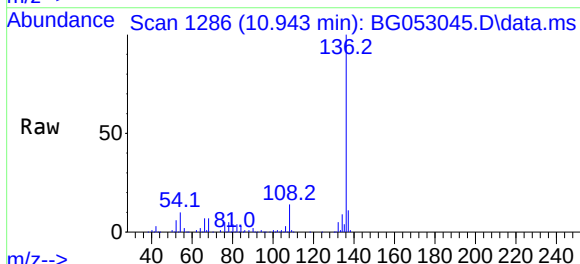
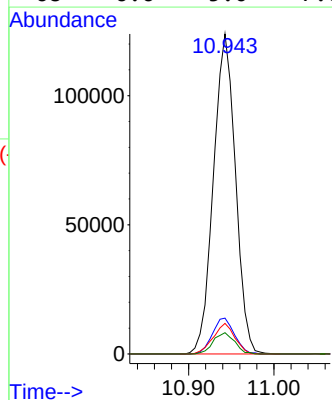
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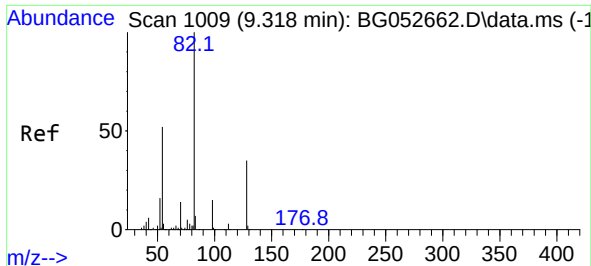
Reviewed By :Christian Giraldo 04/06/2022
Supervised By :Jagrut Upadhyay 04/06/2022



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.943 min Scan# 1286
Delta R.T. -0.017 min
Lab File: BG053045.D
Acq: 5 Apr 2022 23:44

Tgt Ion:136 Resp: 222195
Ion Ratio Lower Upper
136 100
137 11.2 9.4 14.2
54 9.6 6.4 9.6
68 6.6 5.0 7.6





#23

Nitrobenzene-d5

Concen: 12.333 ng

RT: 9.286 min Scan# 1004

Delta R.T. -0.017 min

Lab File: BG053045.D

Acq: 5 Apr 2022 23:44

Instrument :

BNA_G

ClientSampleId :

TP-1

Tgt Ion: 82 Resp: 5459

Ion Ratio Lower Upper

82 100

128 37.9 31.3 46.9

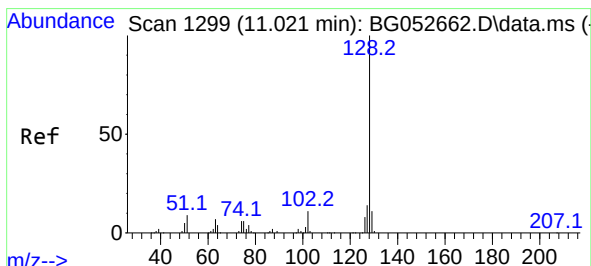
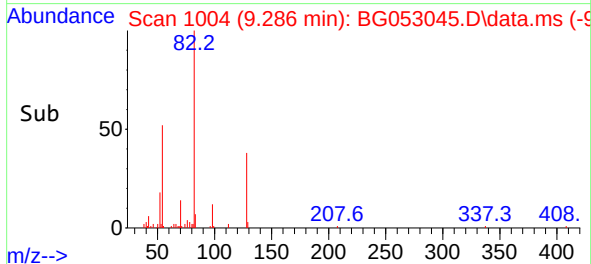
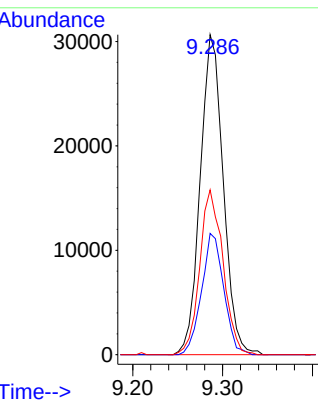
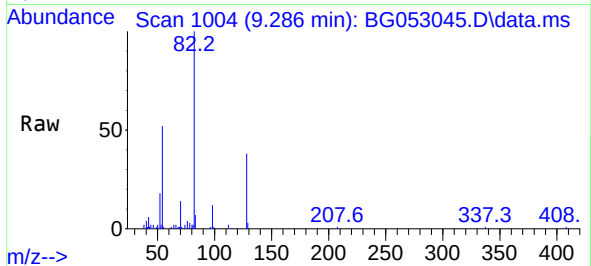
54 51.5 37.8 56.8

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Reviewed By :Christian Giraldo 04/06/2022

Supervised By :Jagrut Upadhyay 04/06/2022



#31

Naphthalene

Concen: 6.857 ng

RT: 10.990 min Scan# 1294

Delta R.T. -0.017 min

Lab File: BG053045.D

Acq: 5 Apr 2022 23:44

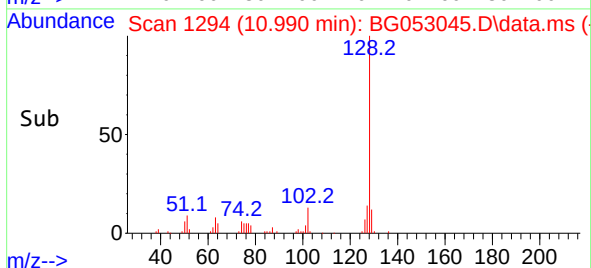
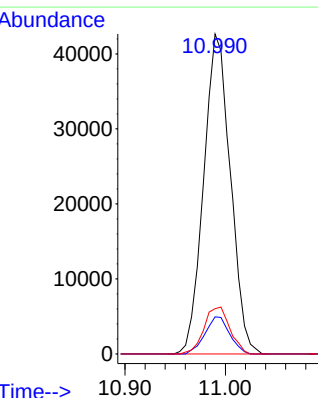
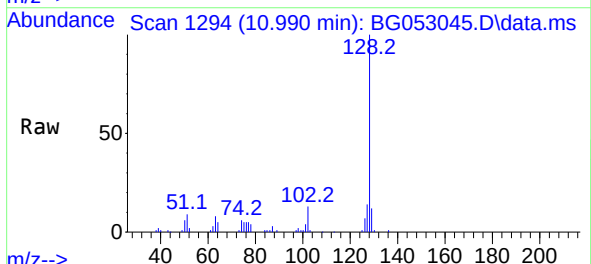
Tgt Ion:128 Resp: 78789

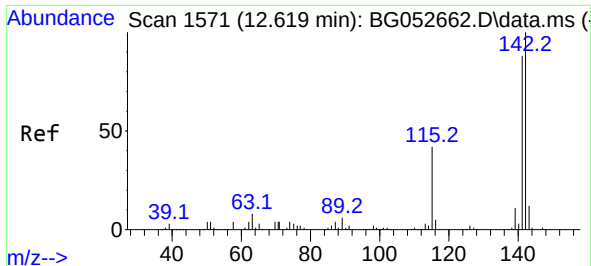
Ion Ratio Lower Upper

128 100

129 11.6 8.8 13.2

127 14.2 10.5 15.7





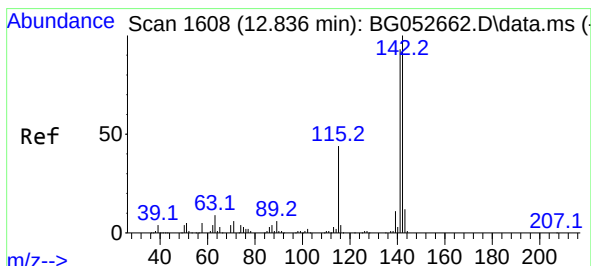
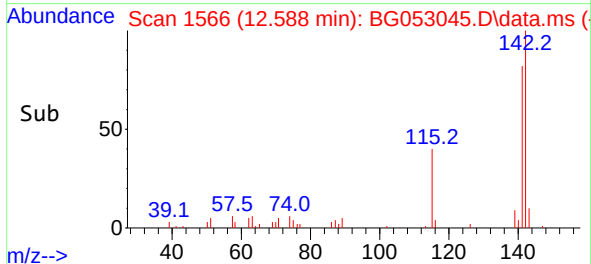
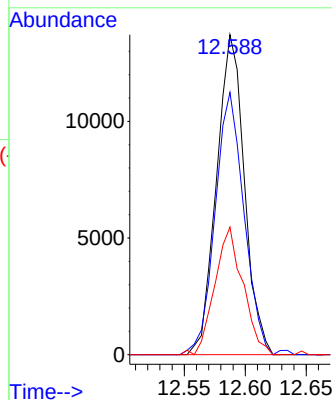
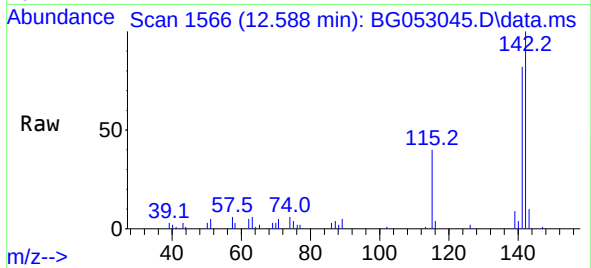
#37
2-Methylnaphthalene
Concen: 2.590 ng
RT: 12.588 min Scan# 11
Delta R.T. -0.017 min
Lab File: BG053045.D
Acq: 5 Apr 2022 23:44

Instrument :
BNA_G
ClientSampleId :
TP-1

Tgt Ion:142 Resp: 2179
Ion Ratio Lower Upper
142 100
141 82.0 71.3 106.9
115 39.9 29.5 44.3

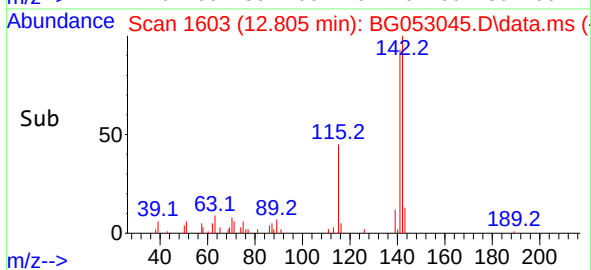
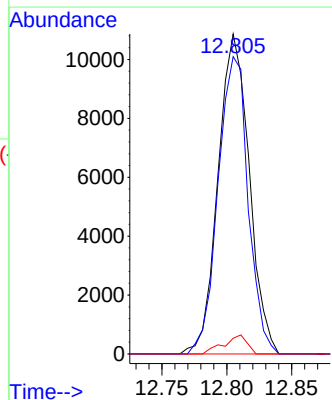
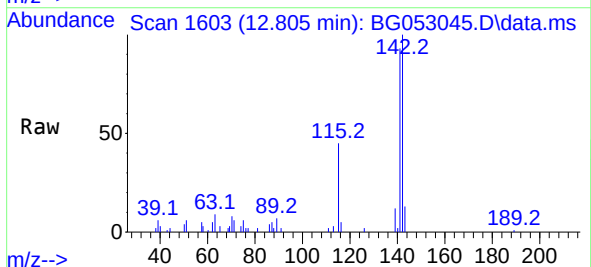
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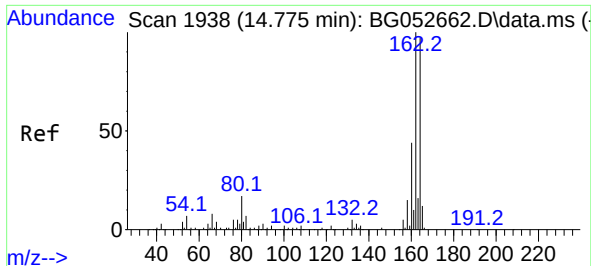
Reviewed By :Christian Giraldo 04/06/2022
Supervised By :Jagrut Upadhyay 04/06/2022



#38
1-Methylnaphthalene
Concen: 2.207 ng m
RT: 12.805 min Scan# 1603
Delta R.T. -0.017 min
Lab File: BG053045.D
Acq: 5 Apr 2022 23:44

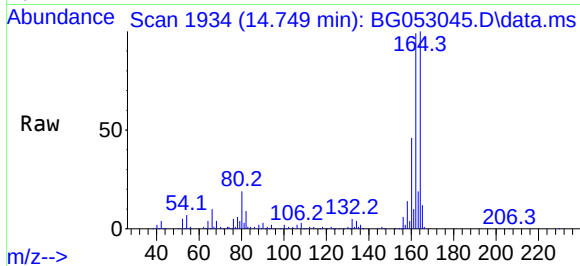
Tgt Ion:142 Resp: 18123
Ion Ratio Lower Upper
142 100
141 92.9 70.5 105.7
116 4.9 3.1 4.7#





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.749 min Scan# 1934
Delta R.T. -0.017 min
Lab File: BG053045.D
Acq: 5 Apr 2022 23:44

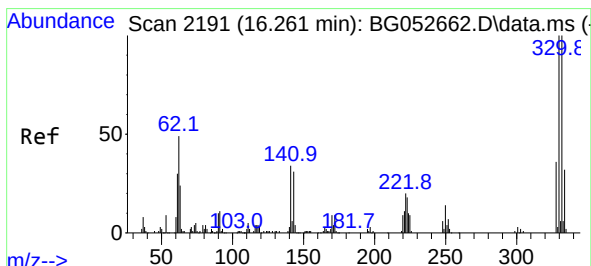
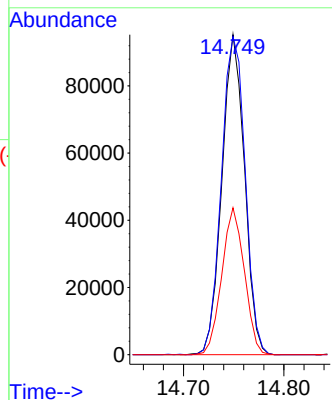
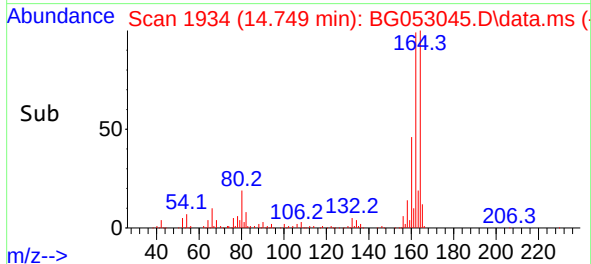
Instrument :
BNA_G
ClientSampleId :
TP-1



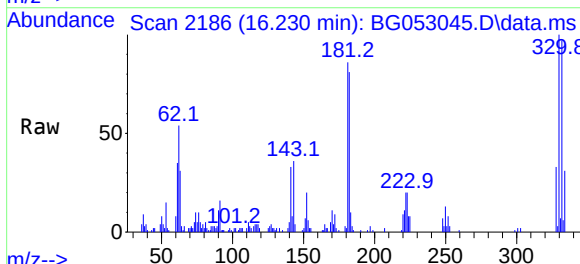
Tgt Ion:164 Resp: 14871
Ion Ratio Lower Upper
164 100
162 99.4 80.0 120.0
160 45.9 38.8 58.2

Manual Integrations
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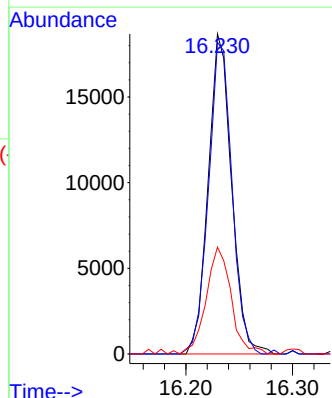
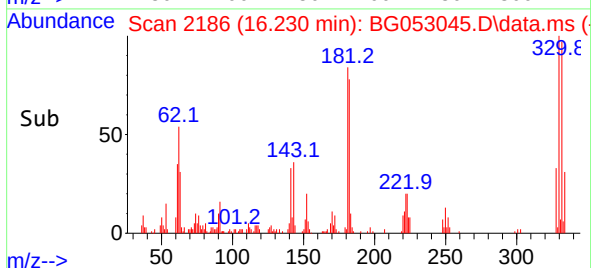
Reviewed By :Christian Giraldo 04/06/2022
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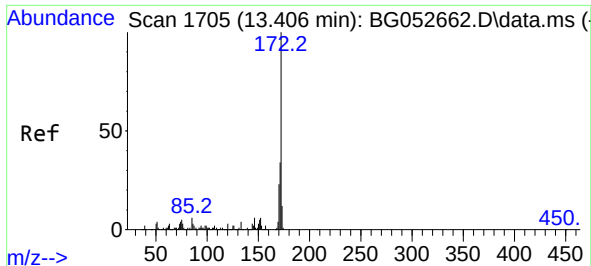


#42
2,4,6-Tribromophenol
Concen: 14.232 ng
RT: 16.230 min Scan# 2186
Delta R.T. -0.017 min
Lab File: BG053045.D
Acq: 5 Apr 2022 23:44



Tgt Ion:330 Resp: 28439
Ion Ratio Lower Upper
330 100
332 97.8 75.8 113.6
141 35.5 24.6 36.8





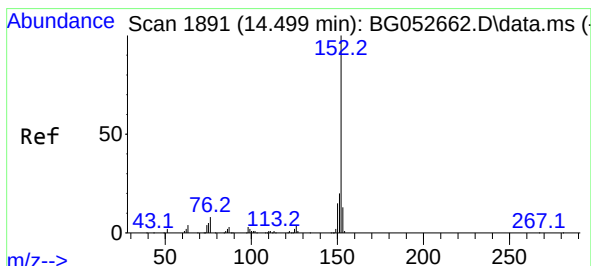
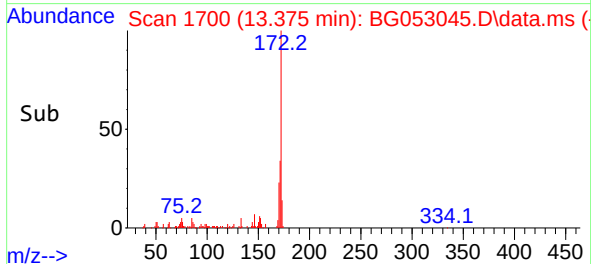
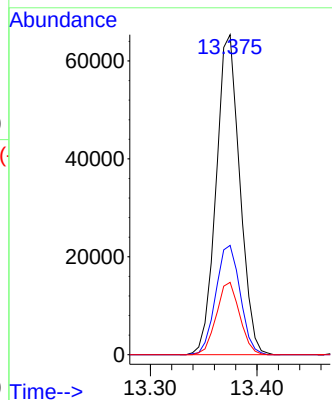
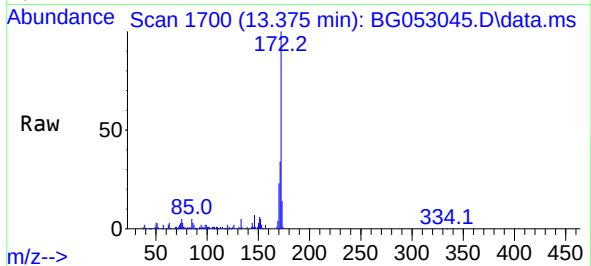
#45
2-Fluorobiphenyl
Concen: 9.966 ng
RT: 13.375 min Scan# 11
Delta R.T. -0.017 min
Lab File: BG053045.D
Acq: 5 Apr 2022 23:44

Instrument :
BNA_G
ClientSampleId :
TP-1

Tgt Ion:172 Resp: 100484
Ion Ratio Lower Upper
172 100
171 34.2 28.3 42.5
170 22.6 18.0 27.0

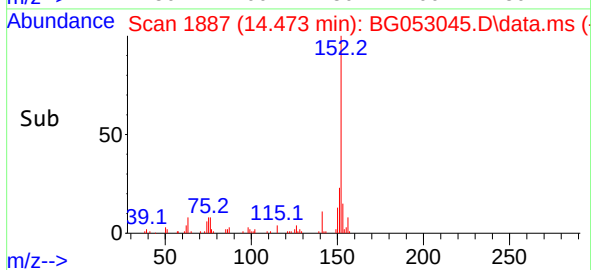
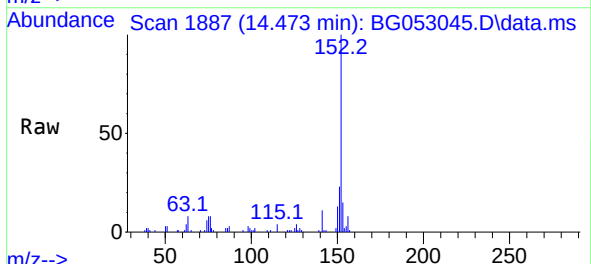
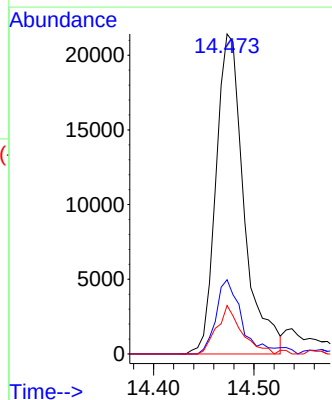
Manual Integrations
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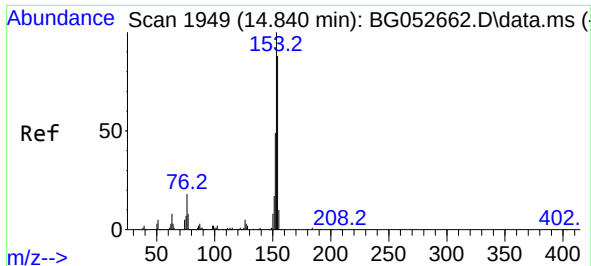
Reviewed By :Christian Giraldo 04/06/2022
Supervised By :Jagrut Upadhyay 04/06/2022



#49
Acenaphthylene
Concen: 3.170 ng
RT: 14.473 min Scan# 1887
Delta R.T. -0.017 min
Lab File: BG053045.D
Acq: 5 Apr 2022 23:44

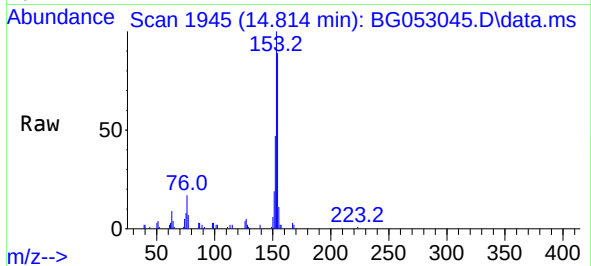
Tgt Ion:152 Resp: 41392
Ion Ratio Lower Upper
152 100
151 23.2 15.8 23.6
153 15.2 10.6 15.8





#52
Acenaphthene
Concen: 2.683 ng
RT: 14.814 min Scan# 1945
Delta R.T. -0.017 min
Lab File: BG053045.D
Acq: 5 Apr 2022 23:44

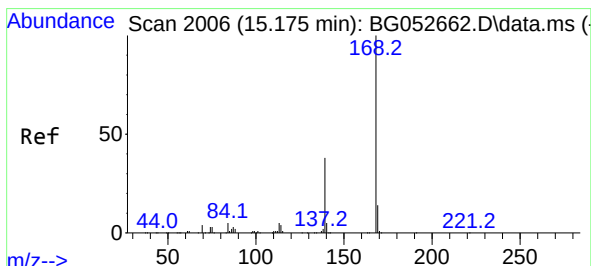
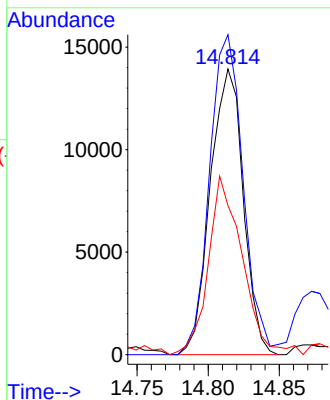
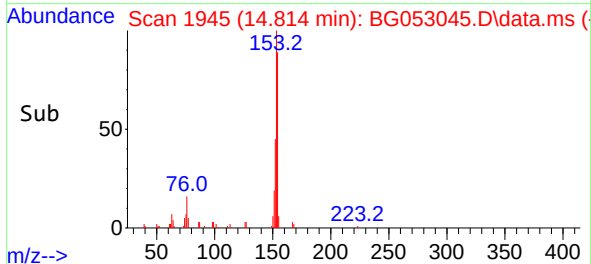
Instrument :
BNA_G
ClientSampleId :
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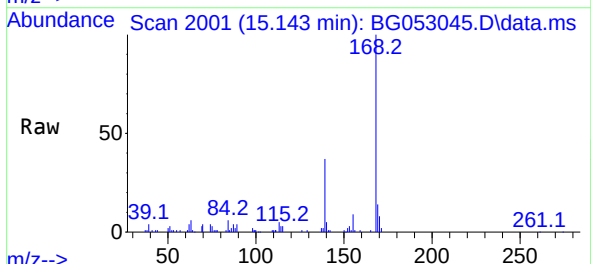
Tgt Ion:154 Resp: 2244
Ion Ratio Lower Upper
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153 112.0 89.0 133.4
152 52.2 40.5 60.7

Manual Integrations
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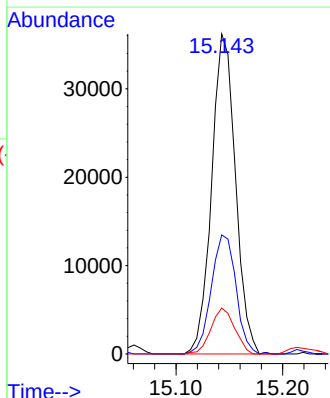
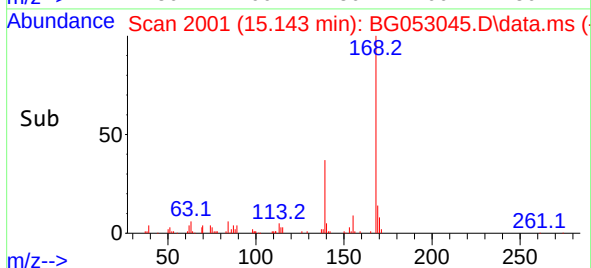
Reviewed By :Christian Giraldo 04/06/2022
Supervised By :Jagrut Upadhyay 04/06/2022

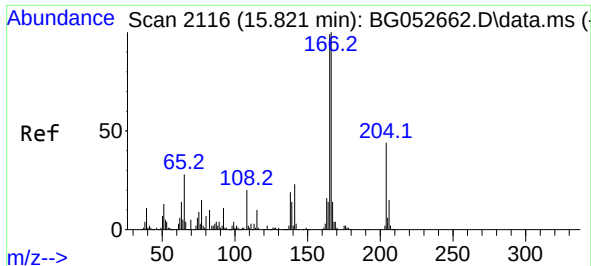


#55
Dibenzofuran
Concen: 4.109 ng
RT: 15.143 min Scan# 2001
Delta R.T. -0.017 min
Lab File: BG053045.D
Acq: 5 Apr 2022 23:44



Tgt Ion:168 Resp: 56119
Ion Ratio Lower Upper
168 100
139 37.2 30.2 45.4
169 14.4 10.7 16.1





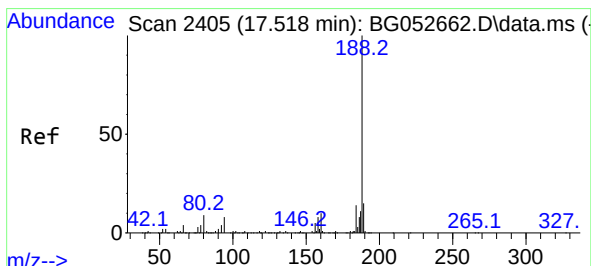
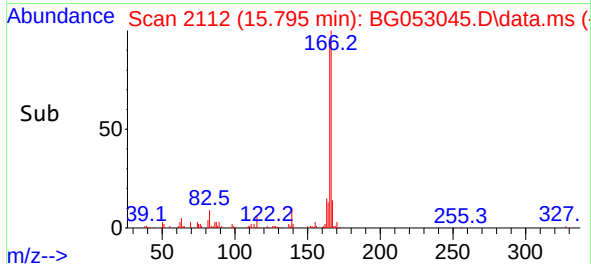
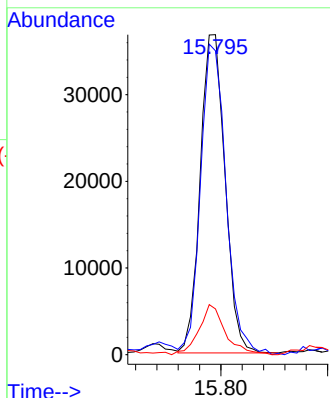
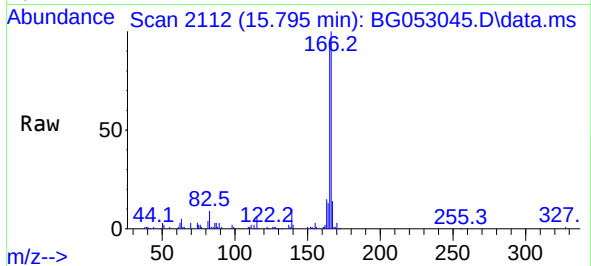
#58
Fluorene
Concen: 5.328 ng
RT: 15.795 min Scan# 2116
Delta R.T. -0.011 min
Lab File: BG053045.D
Acq: 5 Apr 2022 23:44

Instrument :
BNA_G
ClientSampleId :
TP-1

Tgt Ion:166 Resp: 5932
Ion Ratio Lower Upper
166 100
165 94.9 78.6 117.8
167 14.3 10.9 16.3

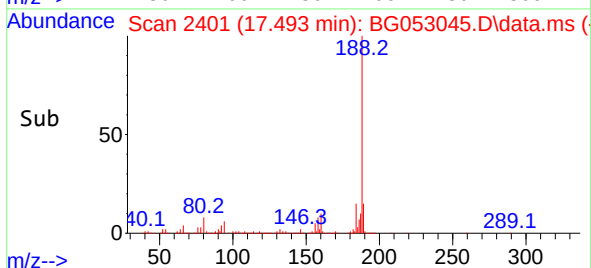
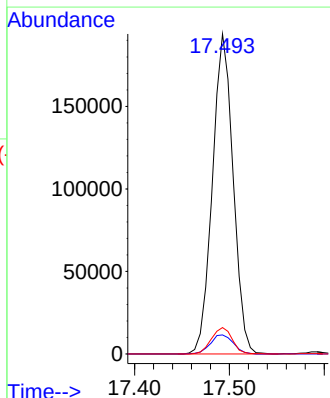
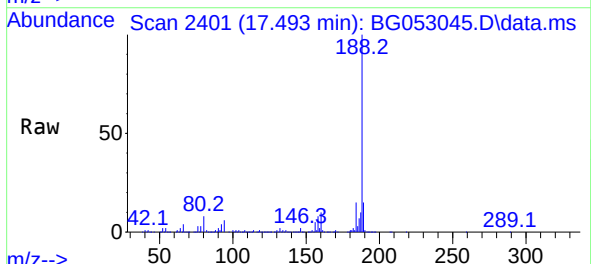
Manual Integrations
APPROVED

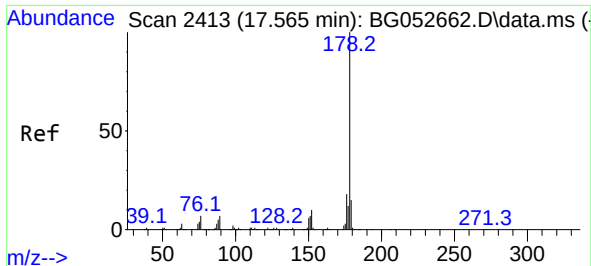
Reviewed By :Christian Giraldo 04/06/2022
Supervised By :Jagrut Upadhyay 04/06/2022



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.493 min Scan# 2401
Delta R.T. -0.011 min
Lab File: BG053045.D
Acq: 5 Apr 2022 23:44

Tgt Ion:188 Resp: 294916
Ion Ratio Lower Upper
188 100
94 5.9 5.7 8.5
80 8.3 7.2 10.8





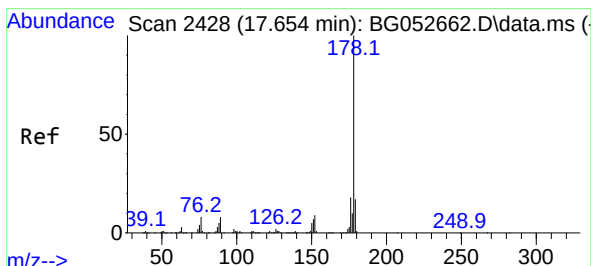
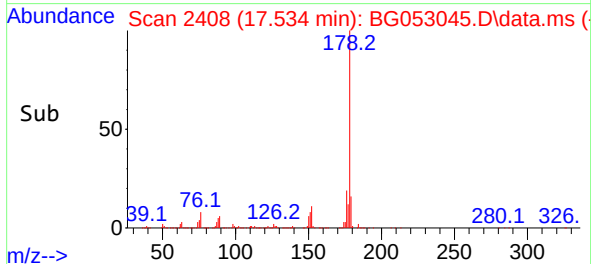
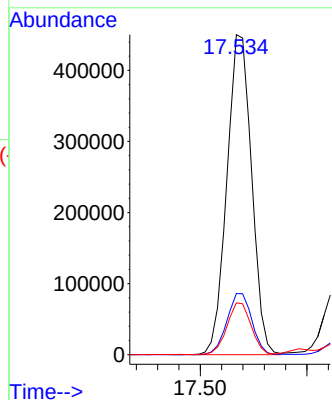
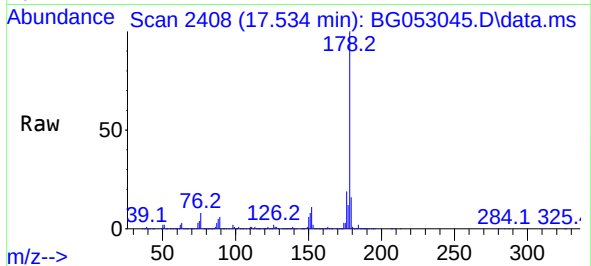
#71
Phenanthrene
Concen: 46.030 ng
RT: 17.534 min Scan# 2413
Delta R.T. -0.017 min
Lab File: BG053045.D
Acq: 5 Apr 2022 23:44

Instrument :
BNA_G
ClientSampleId :
TP-1

Tgt Ion:178 Resp: 72622
Ion Ratio Lower Upper
178 100
176 19.1 15.9 23.9
179 16.2 13.4 20.2

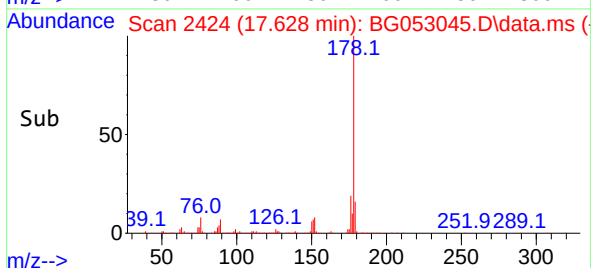
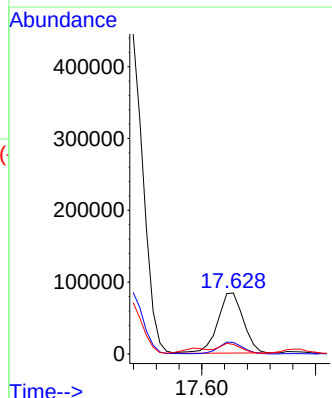
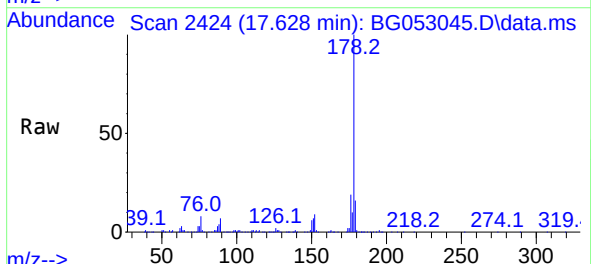
Manual Integrations
APPROVED

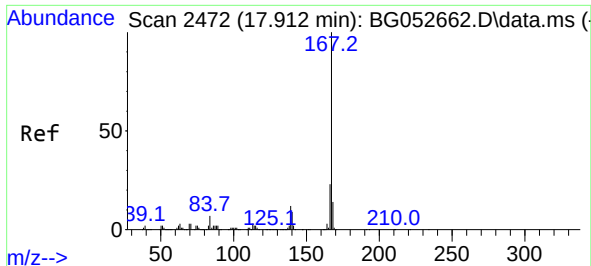
Reviewed By :Christian Giraldo 04/06/2022
Supervised By :Jagrut Upadhyay 04/06/2022



#72
Anthracene
Concen: 8.390 ng
RT: 17.628 min Scan# 2424
Delta R.T. -0.011 min
Lab File: BG053045.D
Acq: 5 Apr 2022 23:44

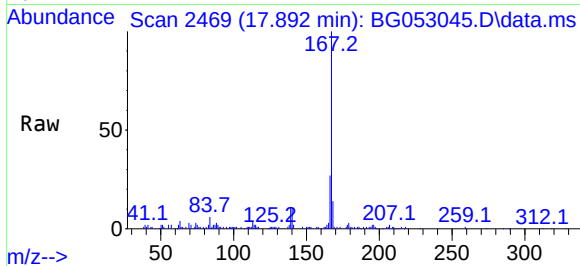
Tgt Ion:178 Resp: 130857
Ion Ratio Lower Upper
178 100
176 18.9 14.7 22.1
179 15.8 13.2 19.8





#73
 Carbazole
 Concen: 3.866 ng
 RT: 17.892 min Scan# 2472
 Delta R.T. -0.011 min
 Lab File: BG053045.D
 Acq: 5 Apr 2022 23:44

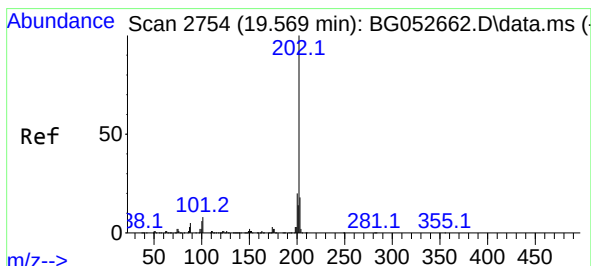
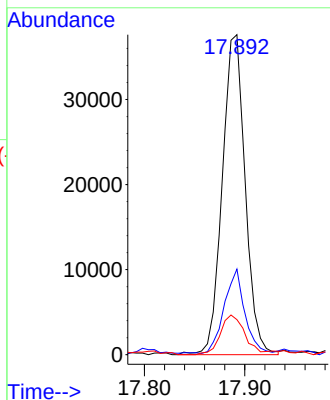
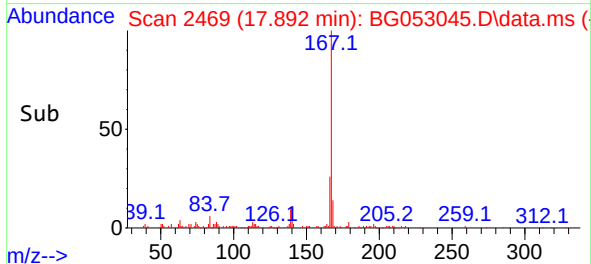
Instrument :
 BNA_G
 ClientSampleId :
 TP-1



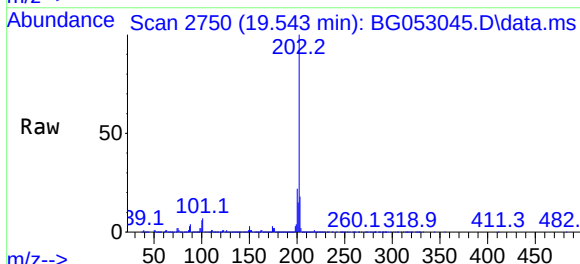
Tgt Ion:167 Resp: 5971
 Ion Ratio Lower Upper
 167 100
 166 26.8 18.5 27.7
 139 11.0 10.0 15.0

Manual Integrations
 APPROVED

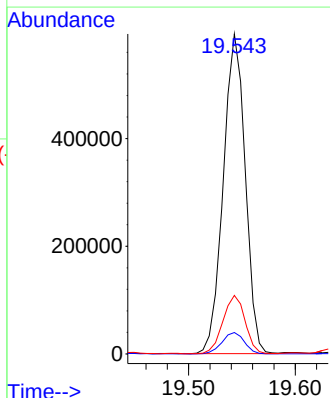
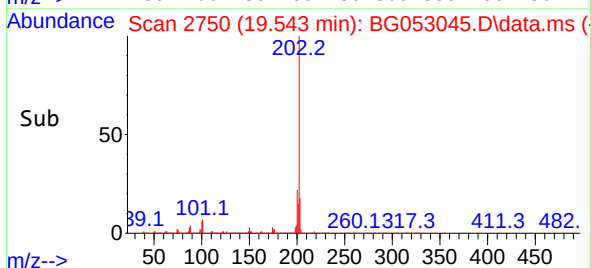
Reviewed By :Christian Giraldo 04/06/2022
 Supervised By :Jagrut Upadhyay 04/06/2022

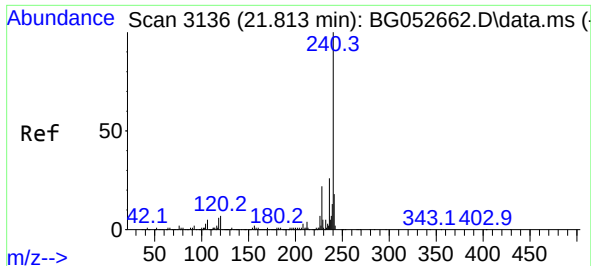


#75
 Fluoranthene
 Concen: 42.369 ng
 RT: 19.543 min Scan# 2750
 Delta R.T. -0.011 min
 Lab File: BG053045.D
 Acq: 5 Apr 2022 23:44



Tgt Ion:202 Resp: 848527
 Ion Ratio Lower Upper
 202 100
 101 6.7 0.0 27.3
 203 18.3 0.0 37.7





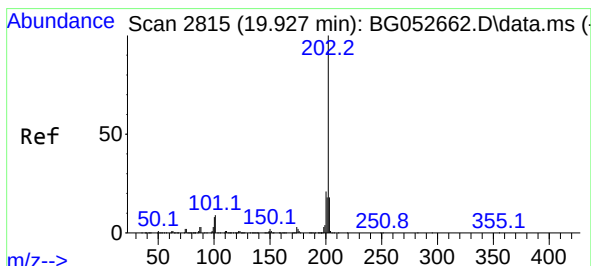
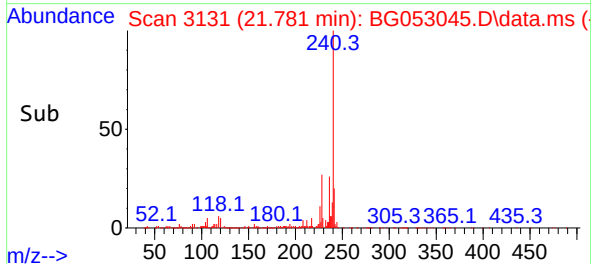
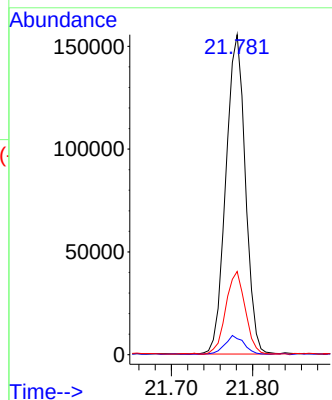
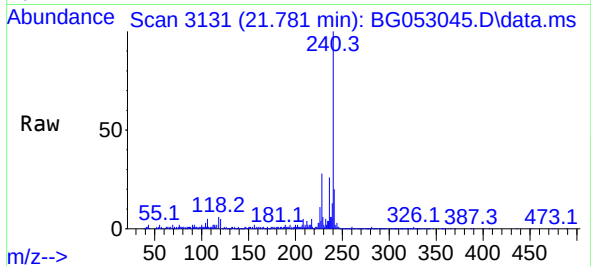
#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.781 min Scan# 3136
Delta R.T. -0.017 min
Lab File: BG053045.D
Acq: 5 Apr 2022 23:44

Instrument :
BNA_G
ClientSampleId :
TP-1

Tgt Ion:240 Resp: 258435
Ion Ratio Lower Upper
240 100
120 5.0 5.4 8.0
236 26.0 19.8 29.6

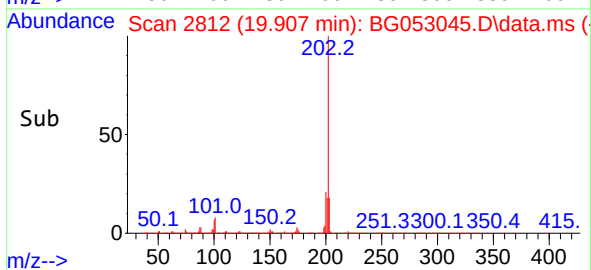
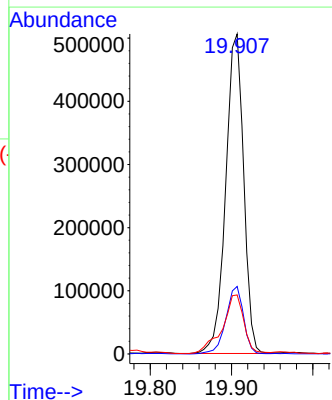
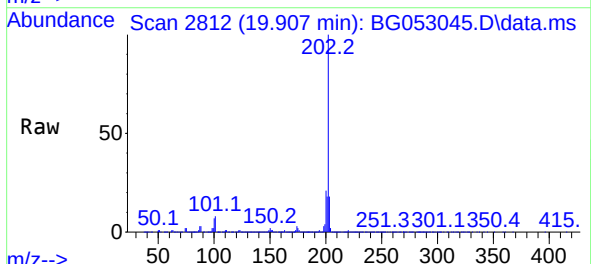
Manual Integrations
APPROVED

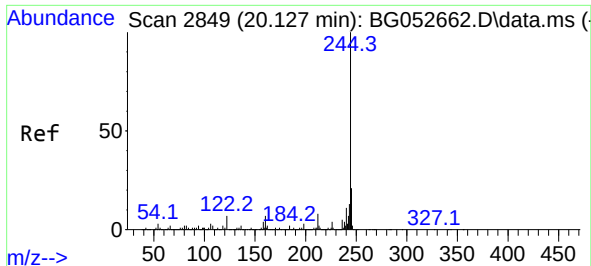
Reviewed By :Christian Giraldo 04/06/2022
Supervised By :Jagrut Upadhyay 04/06/2022



#78
Pyrene
Concen: 43.373 ng
RT: 19.907 min Scan# 2812
Delta R.T. -0.011 min
Lab File: BG053045.D
Acq: 5 Apr 2022 23:44

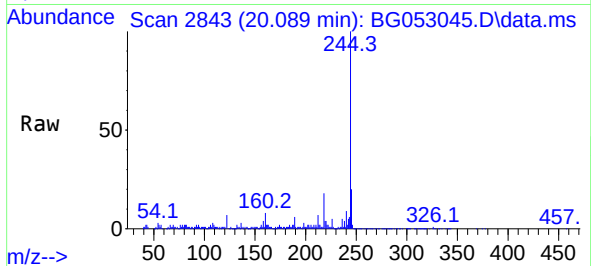
Tgt Ion:202 Resp: 777529
Ion Ratio Lower Upper
202 100
200 21.1 17.0 25.6
203 18.5 15.0 22.6





#79
 Terphenyl-d14
 Concen: 8.099 ng
 RT: 20.089 min Scan# 217658
 Delta R.T. -0.023 min
 Lab File: BG053045.D
 Acq: 5 Apr 2022 23:44

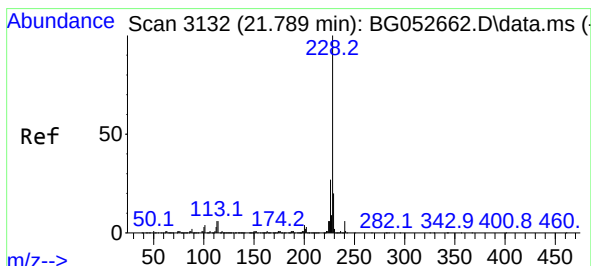
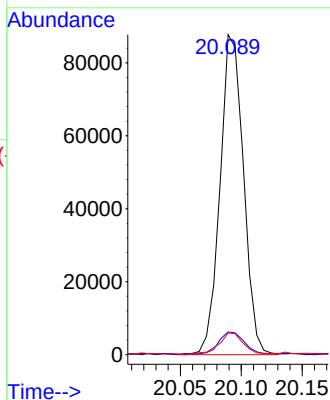
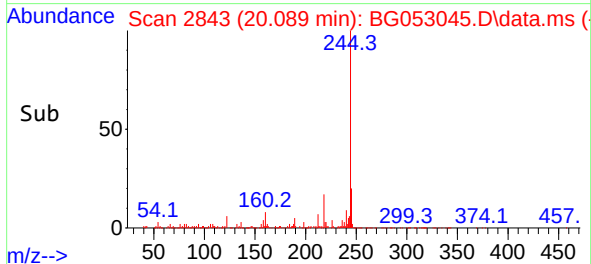
Instrument :
 BNA_G
 ClientSampleId :
 TP-1



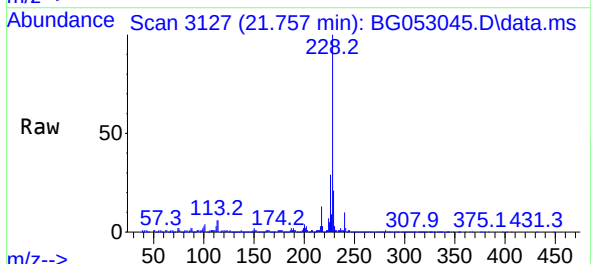
Tgt Ion:244 Resp: 117658
 Ion Ratio Lower Upper
 244 100
 212 7.1 5.4 8.2
 122 6.8 5.8 8.6

Manual Integrations
 APPROVED

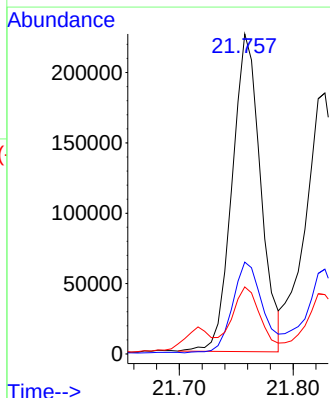
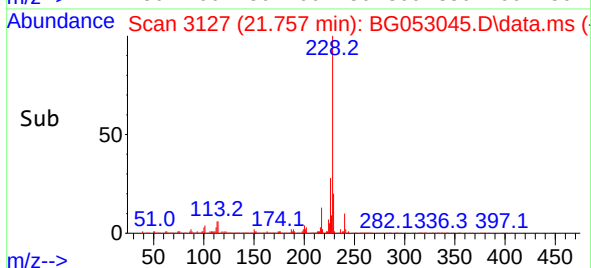
Reviewed By :Christian Giraldo 04/06/2022
 Supervised By :Jagrut Upadhyay 04/06/2022

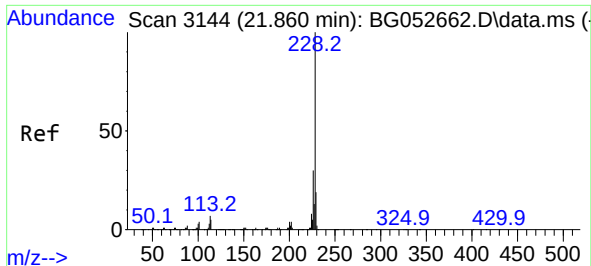


#81
 Benzo(a)anthracene
 Concen: 22.687 ng
 RT: 21.757 min Scan# 3127
 Delta R.T. -0.017 min
 Lab File: BG053045.D
 Acq: 5 Apr 2022 23:44



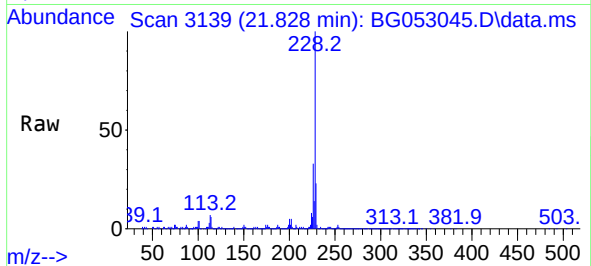
Tgt Ion:228 Resp: 392602
 Ion Ratio Lower Upper
 228 100
 226 28.7 21.4 32.0
 229 21.0 16.7 25.1





#83
Chrysene
Concen: 22.298 ng
RT: 21.828 min Scan# 3144
Delta R.T. -0.017 min
Lab File: BG053045.D
Acq: 5 Apr 2022 23:44

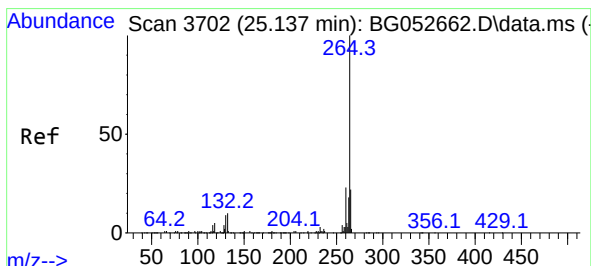
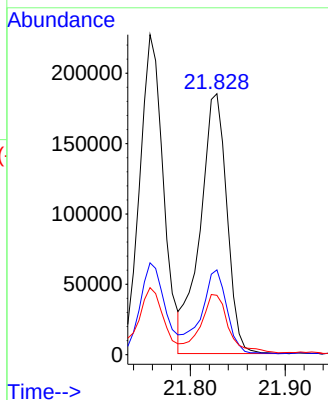
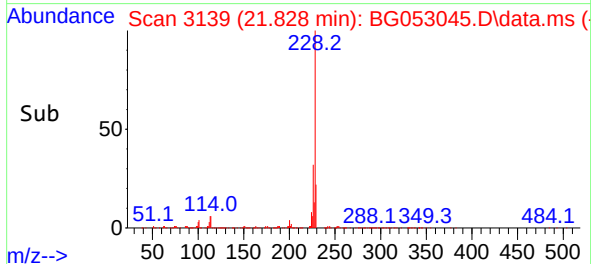
Instrument :
BNA_G
ClientSampleId :
TP-1



Tgt Ion:228 Resp: 362762
Ion Ratio Lower Upper
228 100
226 32.5 24.2 36.4
229 22.7 16.3 24.5

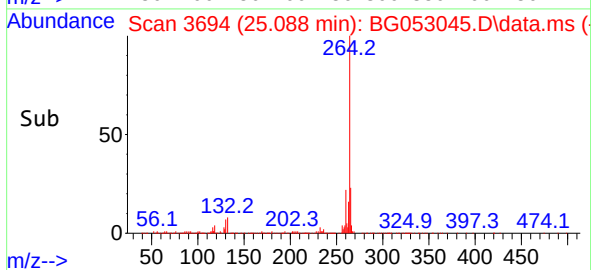
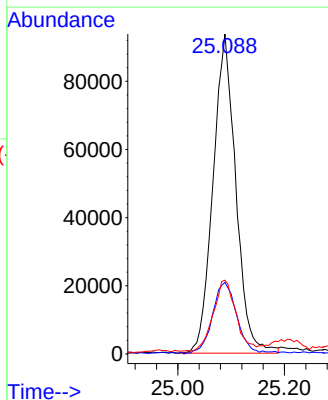
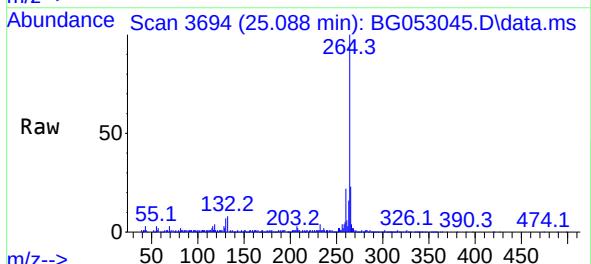
Manual Integrations
APPROVED

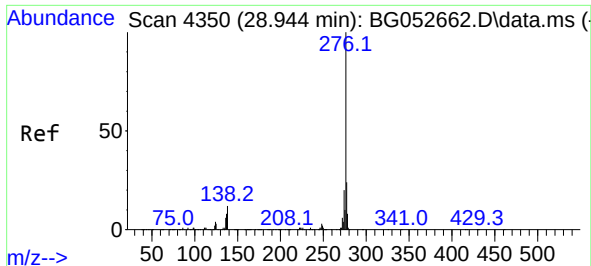
Reviewed By :Christian Giraldo 04/06/2022
Supervised By :Jagrut Upadhyay 04/06/2022



#86
Perylene-d12
Concen: 20.000 ng
RT: 25.088 min Scan# 3694
Delta R.T. -0.023 min
Lab File: BG053045.D
Acq: 5 Apr 2022 23:44

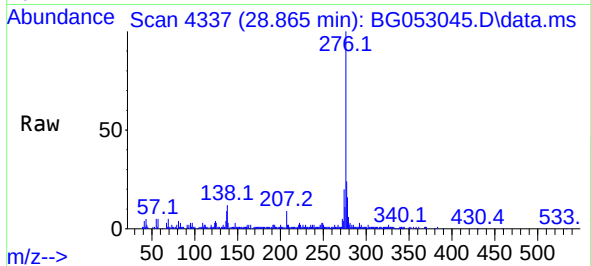
Tgt Ion:264 Resp: 277365
Ion Ratio Lower Upper
264 100
260 22.4 18.2 27.2
265 23.1 15.1 22.7#





#87
Indeno(1,2,3-cd)pyrene
Concen: 9.801 ng
RT: 28.865 min Scan# 41
Delta R.T. -0.035 min
Lab File: BG053045.D
Acq: 5 Apr 2022 23:44

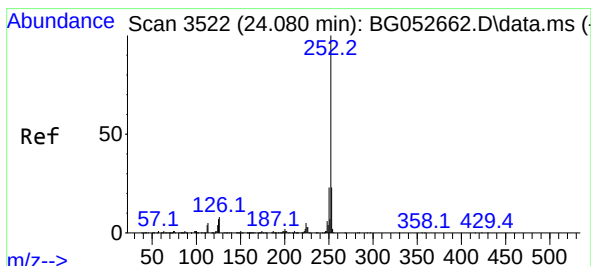
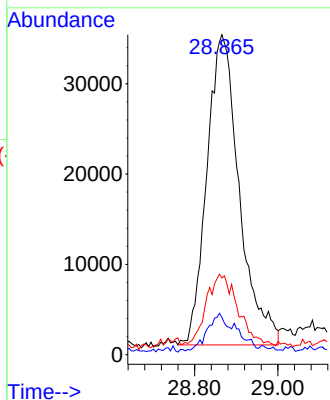
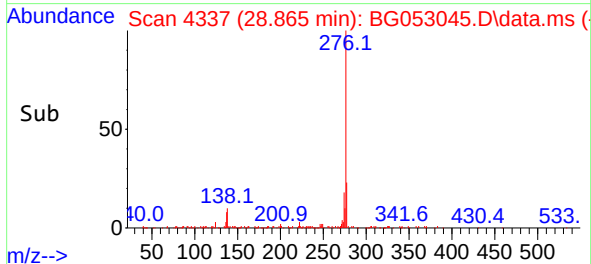
Instrument :
BNA_G
ClientSampleId :
TP-1



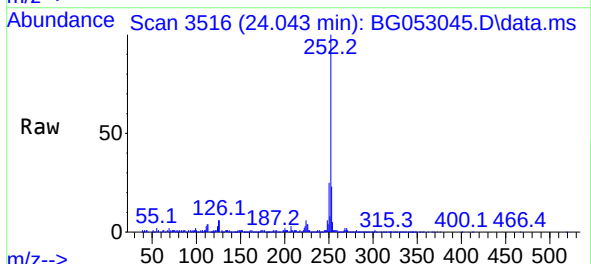
Tgt Ion:276 Resp: 186079
Ion Ratio Lower Upper
276 100
138 7.2 8.7 13.1
277 23.7 20.2 30.4

Manual Integrations
APPROVED

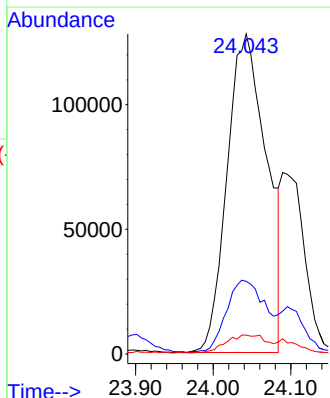
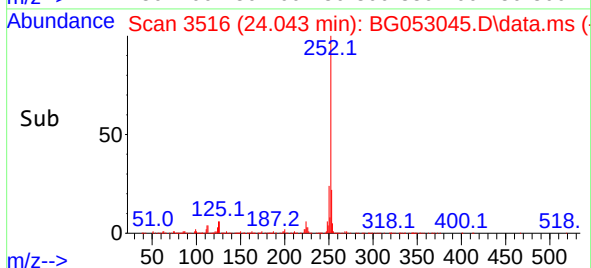
Reviewed By :Christian Giraldo 04/06/2022
Supervised By :Jagrut Upadhyay 04/06/2022

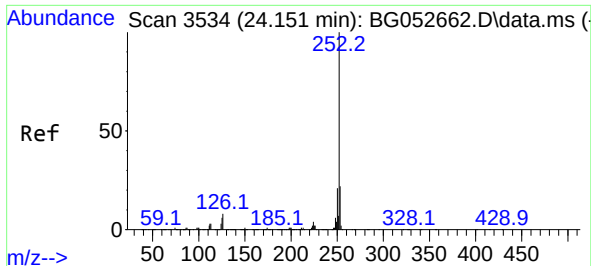


#88
Benzo(b)fluoranthene
Concen: 26.247 ng
RT: 24.043 min Scan# 3516
Delta R.T. -0.011 min
Lab File: BG053045.D
Acq: 5 Apr 2022 23:44



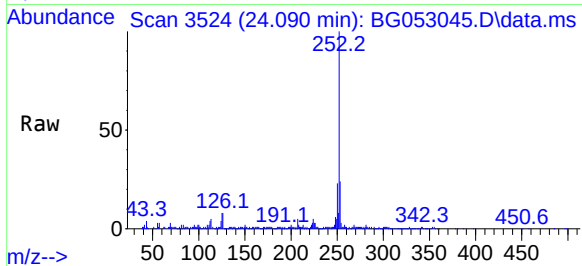
Tgt Ion:252 Resp: 452014
Ion Ratio Lower Upper
252 100
253 22.7 17.2 25.8
125 5.9 5.2 7.8





#89
Benzo(k)fluoranthene
Concen: 8.933 ng m
RT: 24.090 min Scan# 30
Delta R.T. -0.041 min
Lab File: BG053045.D
Acq: 5 Apr 2022 23:44

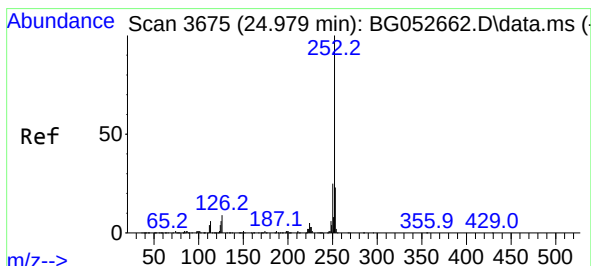
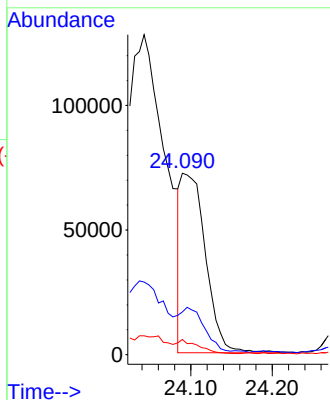
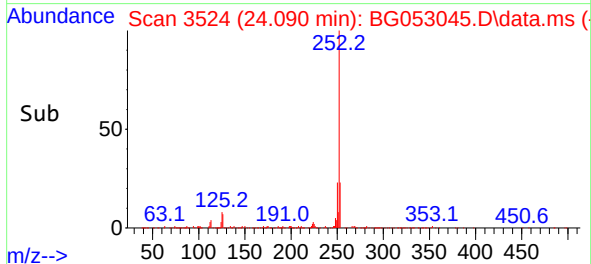
Instrument :
BNA_G
ClientSampleId :
TP-1



Tgt Ion:252 Resp: 151360
Ion Ratio Lower Upper
252 100
253 23.5 17.4 26.0
125 8.4 5.0 7.4

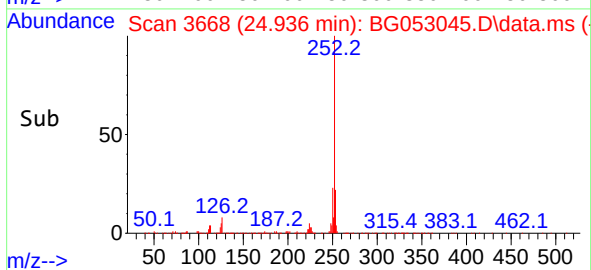
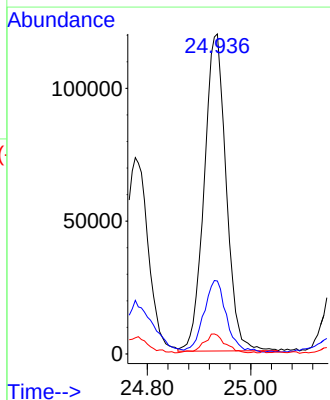
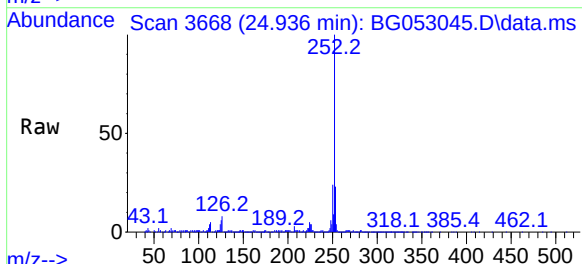
Manual Integrations
APPROVED

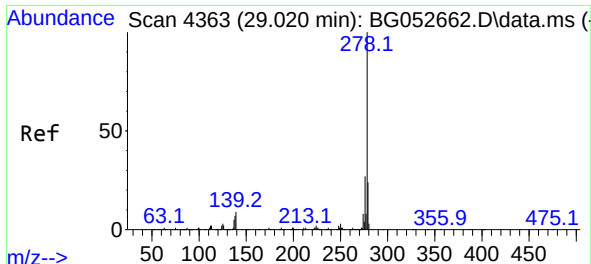
Reviewed By :Christian Giraldo 04/06/2022
Supervised By :Jagrut Upadhyay 04/06/2022



#90
Benzo(a)pyrene
Concen: 24.143 ng
RT: 24.936 min Scan# 3668
Delta R.T. -0.017 min
Lab File: BG053045.D
Acq: 5 Apr 2022 23:44

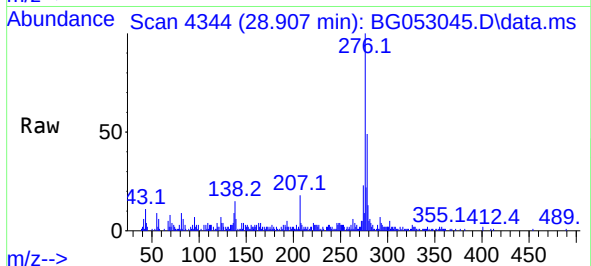
Tgt Ion:252 Resp: 351950
Ion Ratio Lower Upper
252 100
253 22.8 18.4 27.6
125 5.8 5.6 8.4





#91
Dibenzo(a,h)anthracene
Concen: 3.039 ng m
RT: 28.907 min Scan# 41
Delta R.T. -0.064 min
Lab File: BG053045.D
Acq: 5 Apr 2022 23:44

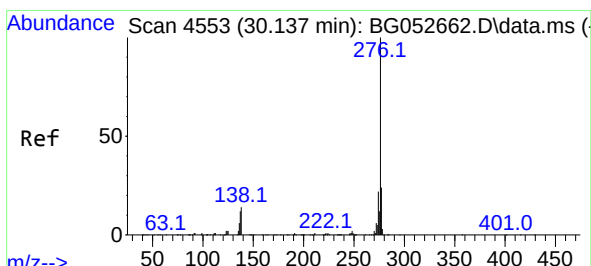
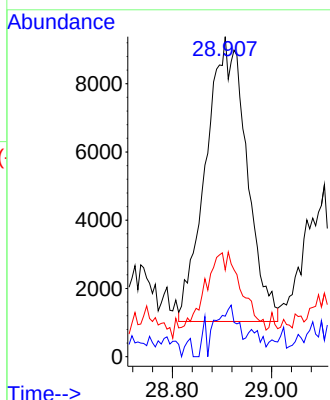
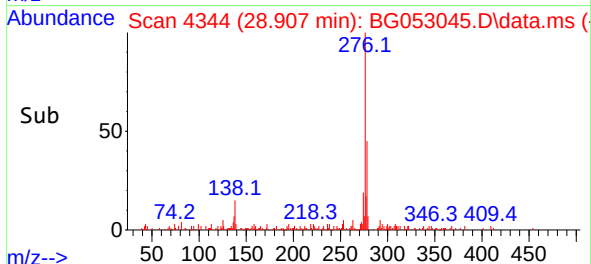
Instrument :
BNA_G
ClientSampleId :
TP-1



Tgt Ion:278 Resp: 4754
Ion Ratio Lower Upper
278 100
139 12.6 7.8 11.6
279 27.1 18.5 27.7

Manual Integrations
APPROVED

Reviewed By :Christian Giraldo 04/06/2022
Supervised By :Jagrut Upadhyay 04/06/2022



#92
Benzo(g,h,i)perylene
Concen: 10.641 ng m
RT: 30.058 min Scan# 4540
Delta R.T. -0.035 min
Lab File: BG053045.D
Acq: 5 Apr 2022 23:44

Tgt Ion:276 Resp: 164702
Ion Ratio Lower Upper
276 100
277 21.2 18.2 27.2
138 12.1 9.1 13.7

