

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG101422\
 Data File : BG055176.D
 Acq On : 14 Oct 2022 13:30
 Operator : CG/JU
 Sample : N5108-01DL 20X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 OR-2-101222DL

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 10/17/2022
 Supervised By : mohammad ahmed 10/18/2022

Quant Time: Oct 14 16:17:45 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG101322.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 13 05:14:13 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.304	152	36810	20.000	ng	0.00
21) Naphthalene-d8	11.131	136	156098	20.000	ng	0.00
39) Acenaphthene-d10	14.908	164	107920	20.000	ng	0.00
64) Phenanthrene-d10	17.641	188	254918	20.000	ng	0.00
76) Chrysene-d12	21.930	240	242126	20.000	ng	0.00
86) Perylene-d12	25.349	264	262627	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.819	112	8763	4.658	ng	0.00
7) Phenol-d6	7.435	99	12031	4.323	ng	0.00
23) Nitrobenzene-d5	9.468	82	7841	2.694	ng	0.00
42) 2,4,6-Tribromophenol	16.383	330	6621	4.270	ng	0.00
45) 2-Fluorobiphenyl	13.539	172	19713	2.984	ng	0.00
79) Terphenyl-d14	20.214	244	36464	3.033	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	11.183	128	46605	5.677	ng	98
37) 2-Methylnaphthalene	12.764	142	20289	3.300	ng	98
38) 1-Methylnaphthalene	12.975	142	15422	2.571	ng	90
52) Acenaphthene	14.973	154	32976	5.239	ng	99
55) Dibenzofuran	15.302	168	47137	4.800	ng	98
58) Fluorene	15.948	166	70382	8.729	ng	100
71) Phenanthrene	17.688	178	570529	43.148	ng	99
72) Anthracene	17.776	178	141267	10.932	ng	99
73) Carbazole	18.034	167	64342	5.348	ng	99
75) Fluoranthene	19.673	202	623408	37.717	ng	99
78) Pyrene	20.032	202	508072	31.478	ng	99
81) Benzo(a)anthracene	21.906	228	241240	15.572	ng	99
83) Chrysene	21.977	228	210668	14.416	ng	98
87) Indeno(1,2,3-cd)pyrene	29.280	276	143165	7.359	ng	97
88) Benzo(b)fluoranthene	24.256	252	277794	17.747	ng	99
89) Benzo(k)fluoranthene	24.321	252	97463m	6.197	ng	
90) Benzo(a)pyrene	25.185	252	215065	16.067	ng	98
91) Dibenzo(a,h)anthracene	29.333	278	38616	2.399	ng	92
92) Benzo(g,h,i)perylene	30.508	276	131939	8.367	ng	98

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

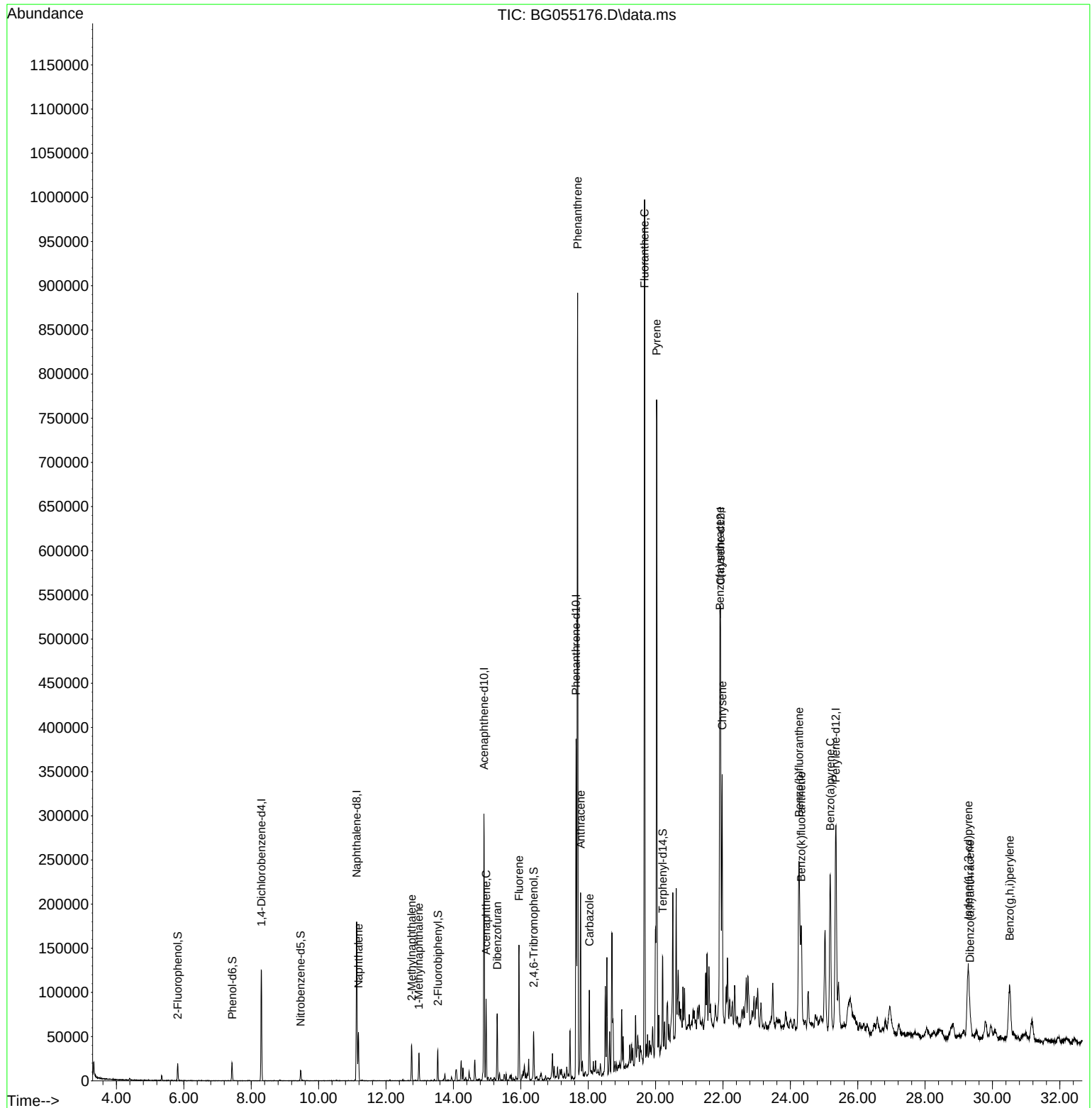
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG101422\
Data File : BG055176.D
Acq On : 14 Oct 2022 13:30
Operator : CG/JU
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Misc :
ALS Vial : 4 Sample Multiplier: 1

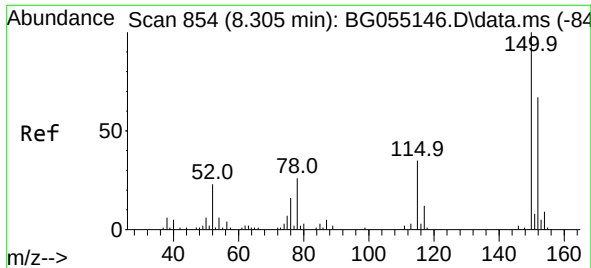
Instrument :
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG101322.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 13 05:14:13 2022
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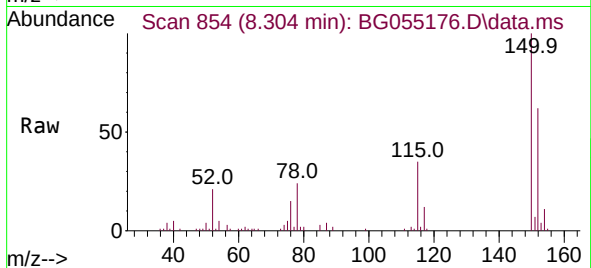
Reviewed By :Christian Giraldo 10/17/2022
Supervised By :mohammad ahmed 10/18/2022





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.304 min Scan# 854
Delta R.T. -0.001 min
Lab File: BG055176.D
Acq: 14 Oct 2022 13:30

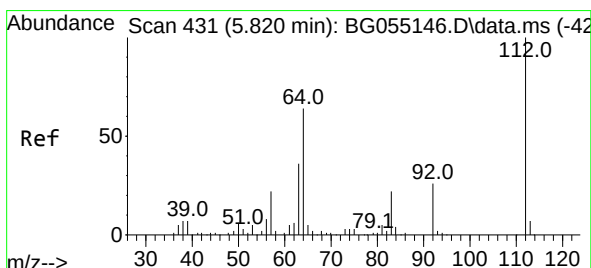
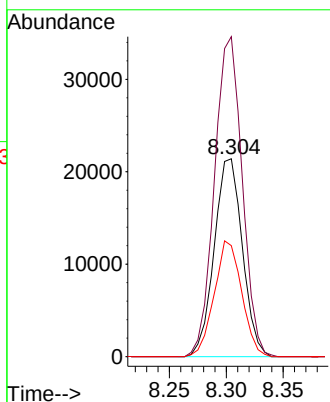
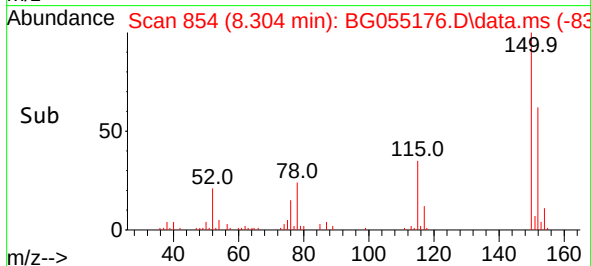
Instrument :
BNA_G
ClientSampleId :
OR-2-101222DL



Tgt Ion:152 Resp: 36810
Ion Ratio Lower Upper
152 100
150 161.7 119.7 179.5
115 56.1 42.4 63.6

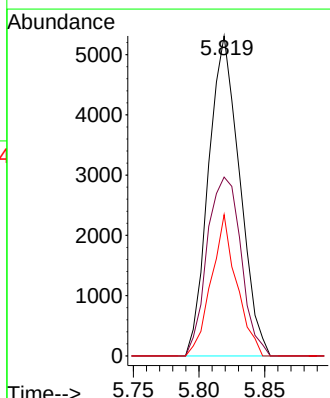
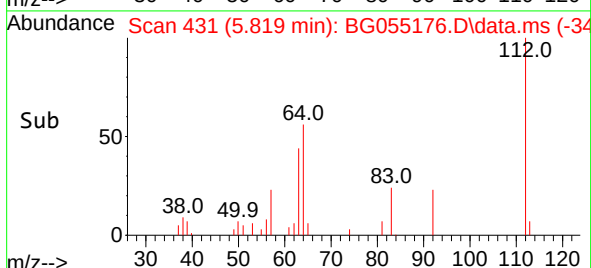
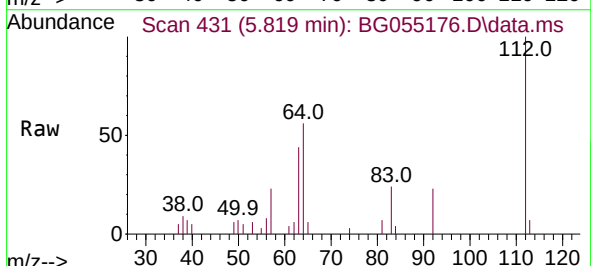
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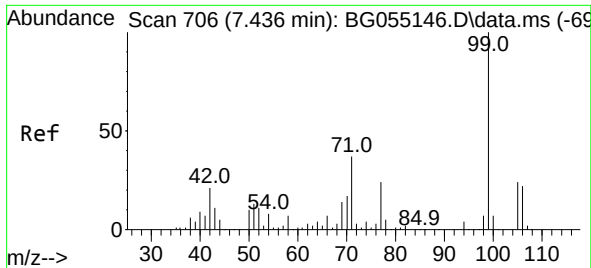
Reviewed By :Christian Giraldo 10/17/2022
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#5
2-Fluorophenol
Concen: 4.658 ng
RT: 5.819 min Scan# 431
Delta R.T. -0.001 min
Lab File: BG055176.D
Acq: 14 Oct 2022 13:30

Tgt Ion:112 Resp: 8763
Ion Ratio Lower Upper
112 100
64 55.9 50.9 76.3
63 44.2 29.0 43.6#





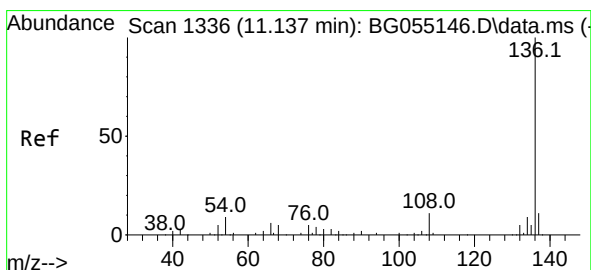
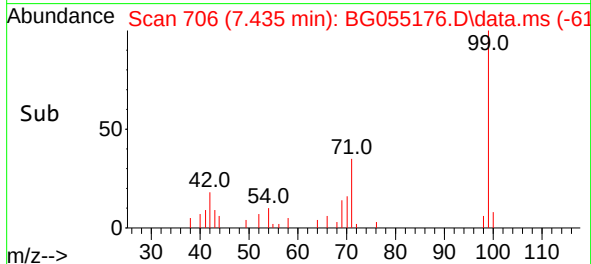
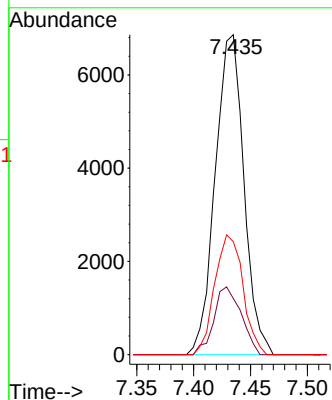
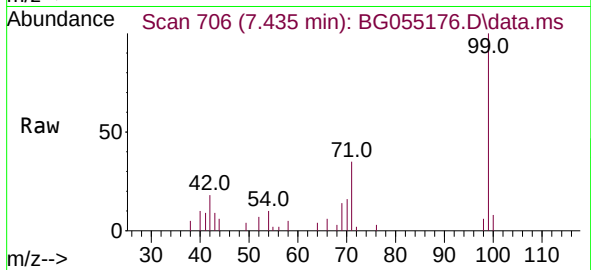
#7
Phenol-d6
Concen: 4.323 ng
RT: 7.435 min Scan# 706
Delta R.T. -0.001 min
Lab File: BG055176.D
Acq: 14 Oct 2022 13:30

Instrument :
BNA_G
ClientSampleId :
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Tgt Ion: 99 Resp: 12031
Ion Ratio Lower Upper
99 100
42 17.5 16.6 25.0
71 35.3 29.6 44.4

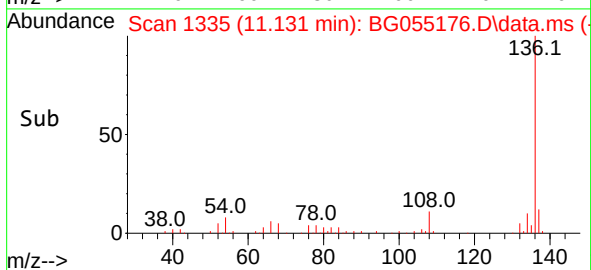
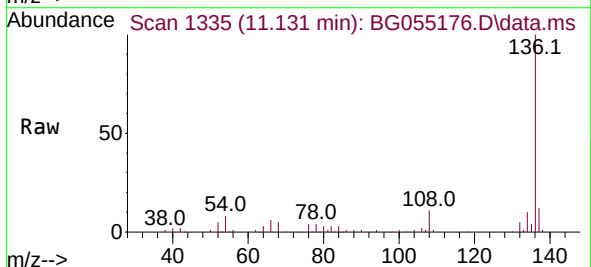
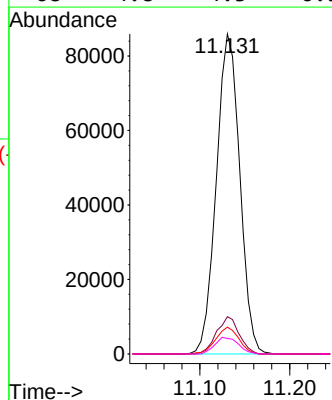
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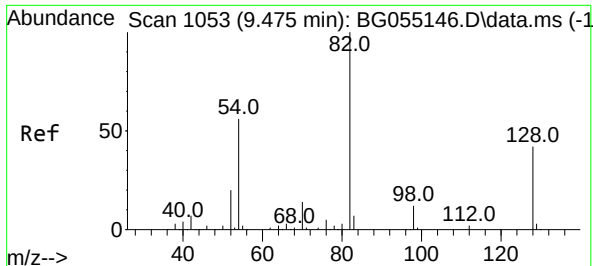
Reviewed By :Christian Giraldo 10/17/2022
Supervised By :mohammad ahmed 10/18/2022



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.131 min Scan# 1335
Delta R.T. -0.007 min
Lab File: BG055176.D
Acq: 14 Oct 2022 13:30

Tgt Ion:136 Resp: 156098
Ion Ratio Lower Upper
136 100
137 11.6 9.1 13.7
54 8.4 7.0 10.6
68 4.8 4.3 6.5





#23

Nitrobenzene-d5

Concen: 2.694 ng

RT: 9.468 min Scan# 1052

Delta R.T. -0.007 min

Lab File: BG055176.D

Acq: 14 Oct 2022 13:30

Instrument :

BNA_G

ClientSampleId :

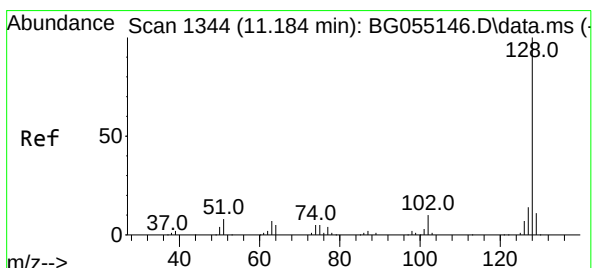
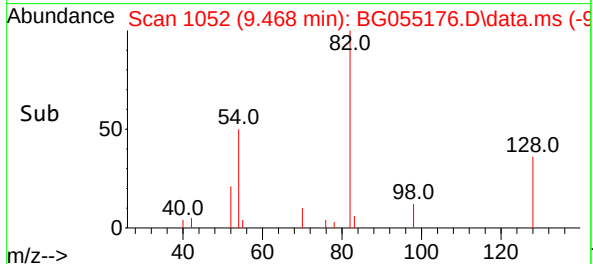
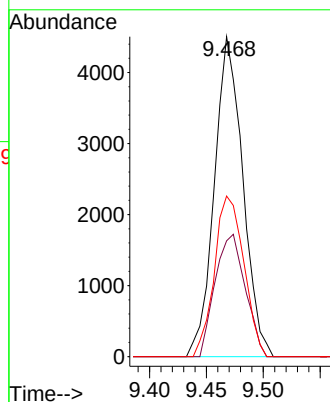
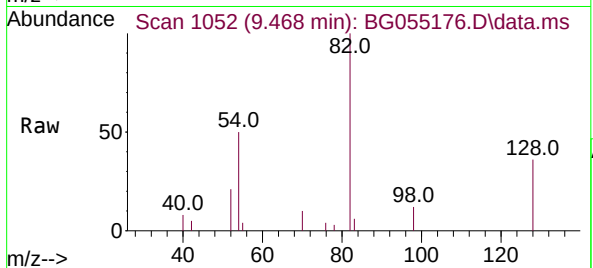
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Tgt Ion:	82	Resp:	784
Ion Ratio	Lower	Upper	
82	100		
128	36.2	33.5	50.3
54	50.2	44.7	67.1

Manual Integrations

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Supervised By :mohammad ahmed 10/18/2022



#31

Naphthalene

Concen: 5.677 ng

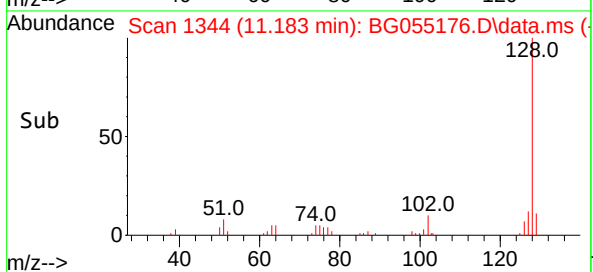
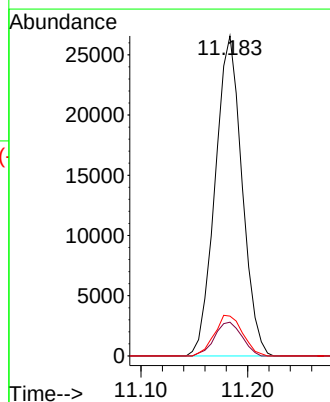
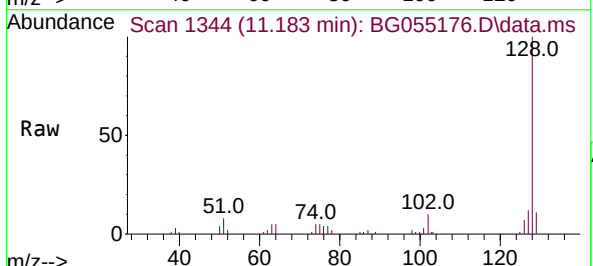
RT: 11.183 min Scan# 1344

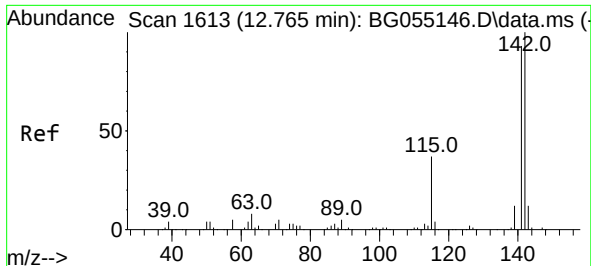
Delta R.T. -0.001 min

Lab File: BG055176.D

Acq: 14 Oct 2022 13:30

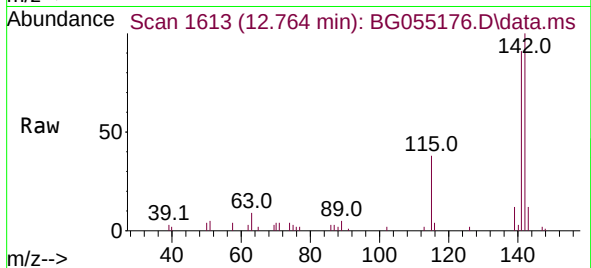
Tgt Ion:	128	Resp:	46605
Ion Ratio	Lower	Upper	
128	100		
129	10.5	8.6	13.0
127	12.4	11.1	16.7





#37
2-Methylnaphthalene
Concen: 3.300 ng
RT: 12.764 min Scan# 1613
Delta R.T. -0.001 min
Lab File: BG055176.D
Acq: 14 Oct 2022 13:30

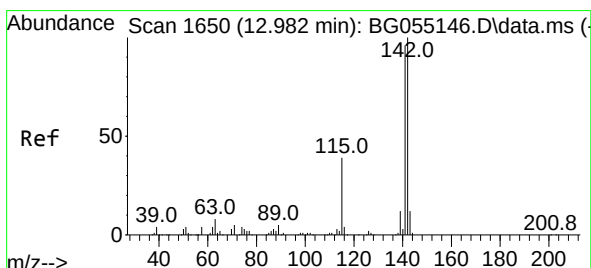
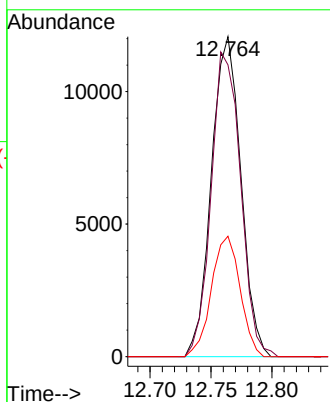
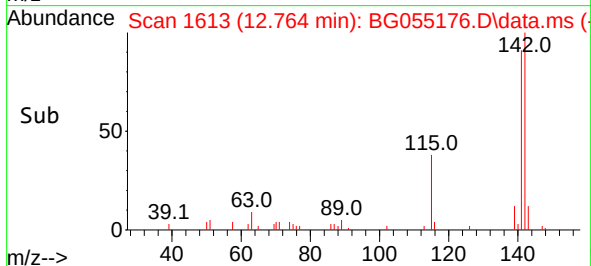
Instrument :
BNA_G
ClientSampleId :
OR-2-101222DL



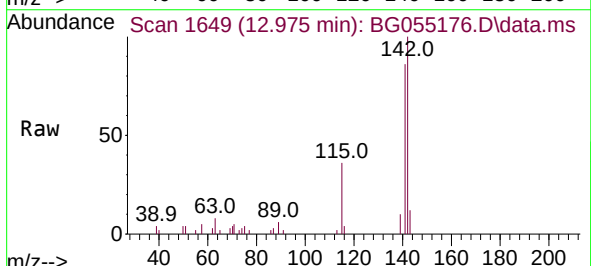
Tgt Ion:142 Resp: 20289
Ion Ratio Lower Upper
142 100
141 91.2 74.8 112.2
115 37.6 29.8 44.6

Manual Integrations
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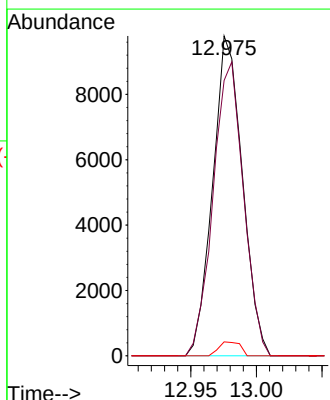
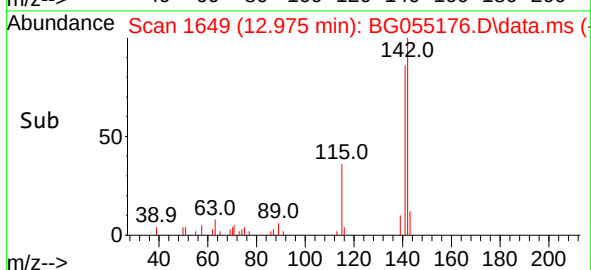
Reviewed By :Christian Giraldo 10/17/2022
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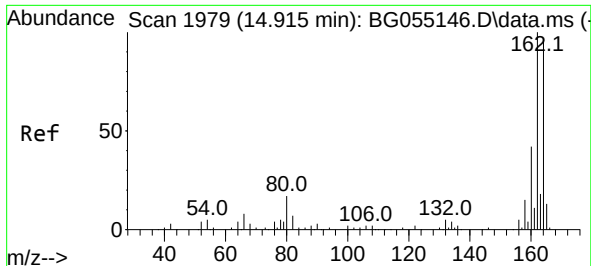


#38
1-Methylnaphthalene
Concen: 2.571 ng
RT: 12.975 min Scan# 1649
Delta R.T. -0.007 min
Lab File: BG055176.D
Acq: 14 Oct 2022 13:30



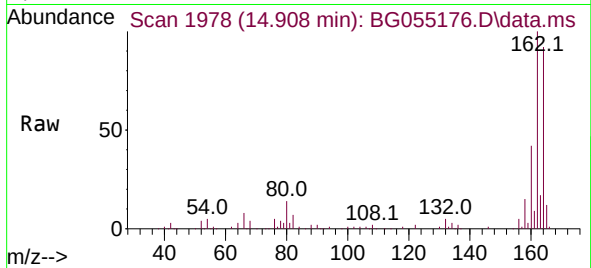
Tgt Ion:142 Resp: 15422
Ion Ratio Lower Upper
142 100
141 86.1 76.9 115.3
116 4.4 3.2 4.8





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.908 min Scan# 1979
Delta R.T. -0.007 min
Lab File: BG055176.D
Acq: 14 Oct 2022 13:30

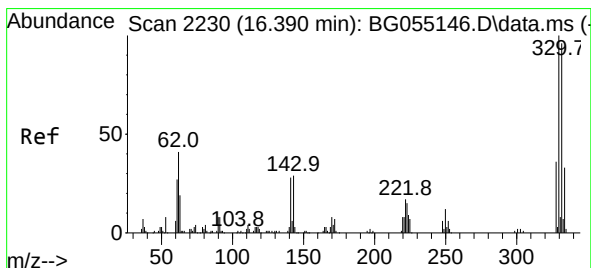
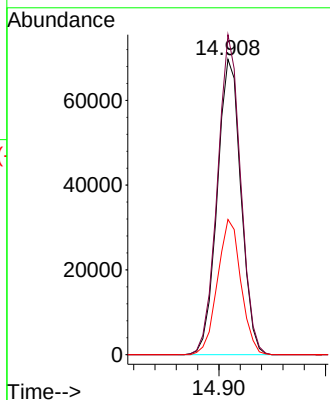
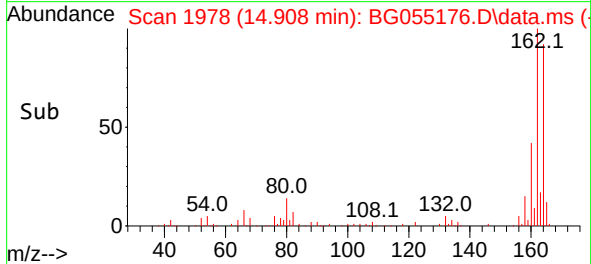
Instrument :
BNA_G
ClientSampleId :
OR-2-101222DL



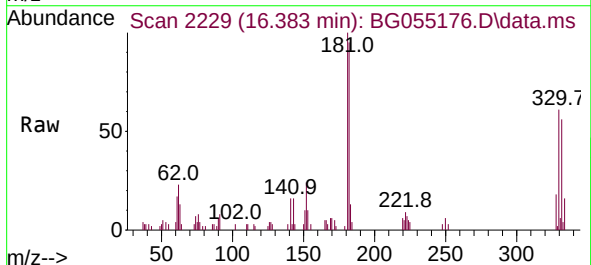
Tgt Ion:164 Resp: 107920
Ion Ratio Lower Upper
164 100
162 108.4 83.3 124.9
160 45.8 35.3 52.9

Manual Integrations
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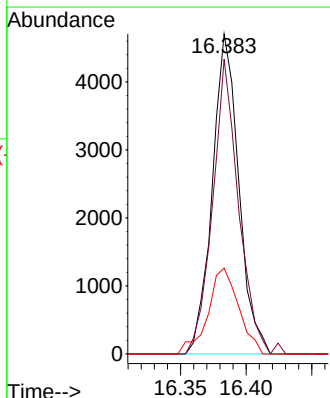
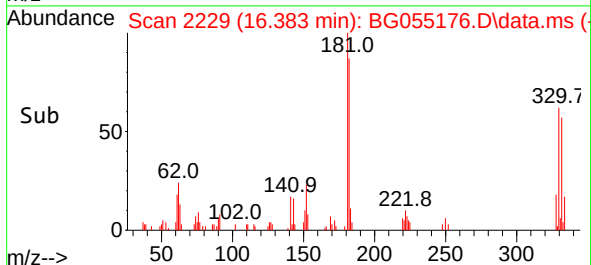
Reviewed By :Christian Giraldo 10/17/2022
Supervised By :mohammad ahmed 10/18/2022

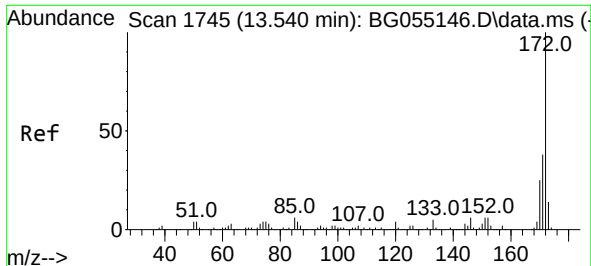


#42
2,4,6-Tribromophenol
Concen: 4.270 ng
RT: 16.383 min Scan# 2229
Delta R.T. -0.007 min
Lab File: BG055176.D
Acq: 14 Oct 2022 13:30



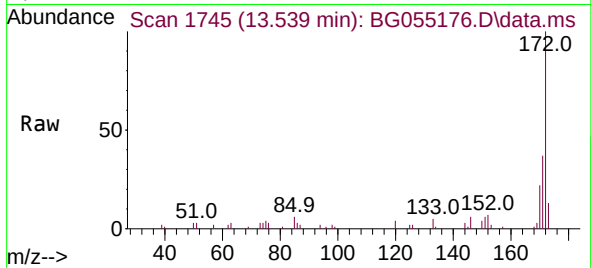
Tgt Ion:330 Resp: 6621
Ion Ratio Lower Upper
330 100
332 90.5 77.0 115.4
141 31.0 24.6 36.8





#45
2-Fluorobiphenyl
Concen: 2.984 ng
RT: 13.539 min Scan# 1745
Delta R.T. -0.001 min
Lab File: BG055176.D
Acq: 14 Oct 2022 13:30

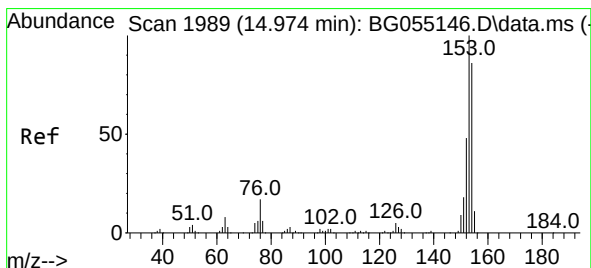
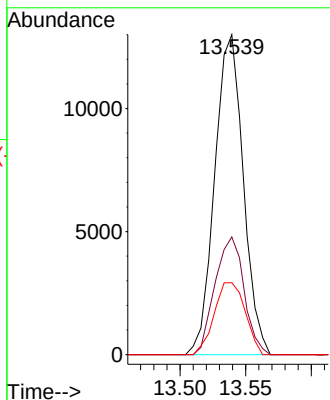
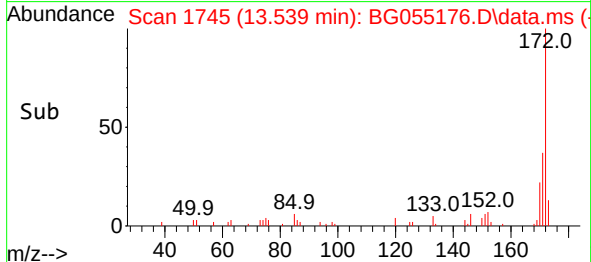
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BNA_G
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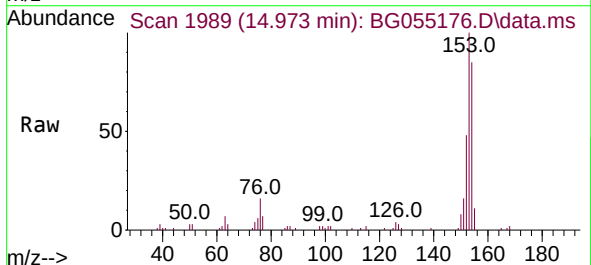
Tgt Ion:172 Resp: 19713
Ion Ratio Lower Upper
172 100
171 36.8 30.1 45.1
170 22.5 19.8 29.6

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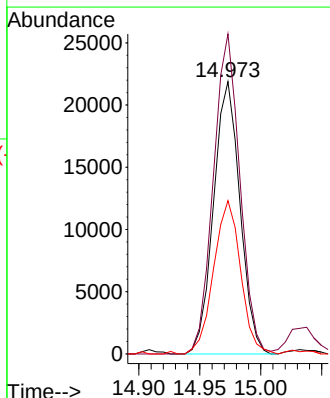
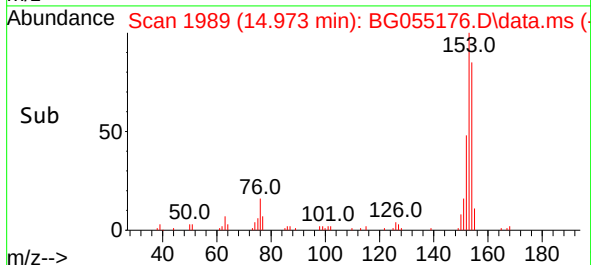
Reviewed By :Christian Giraldo 10/17/2022
Supervised By :mohammad ahmed 10/18/2022

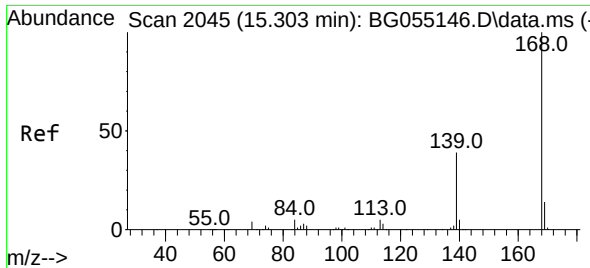


#52
Acenaphthene
Concen: 5.239 ng
RT: 14.973 min Scan# 1989
Delta R.T. -0.001 min
Lab File: BG055176.D
Acq: 14 Oct 2022 13:30



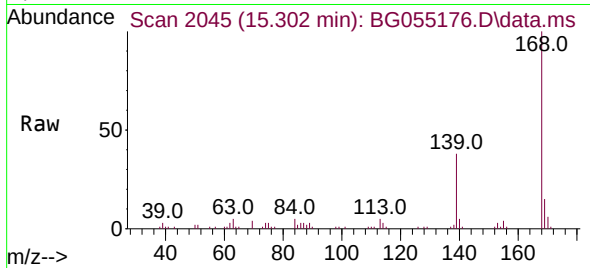
Tgt Ion:154 Resp: 32976
Ion Ratio Lower Upper
154 100
153 117.5 93.0 139.4
152 56.3 44.6 66.8





#55
Dibenzofuran
Concen: 4.800 ng
RT: 15.302 min Scan# 2045
Delta R.T. -0.001 min
Lab File: BG055176.D
Acq: 14 Oct 2022 13:30

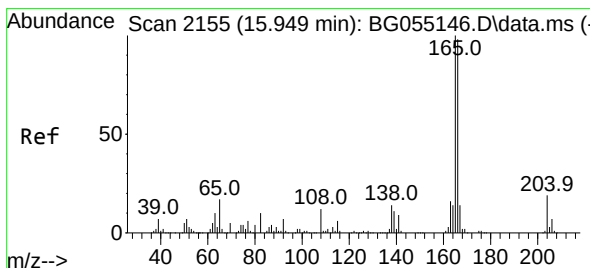
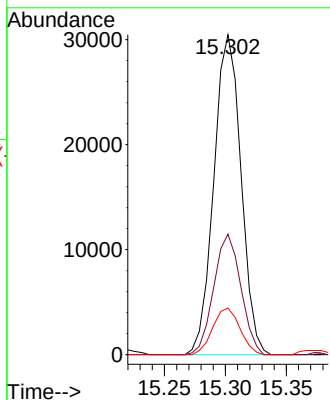
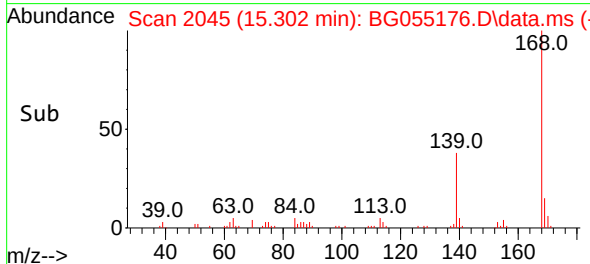
Instrument :
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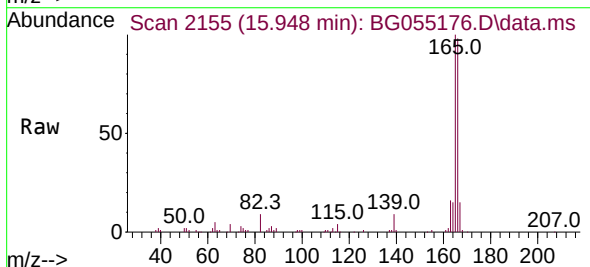
Tgt Ion:168 Resp: 47132
Ion Ratio Lower Upper
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169 14.5 11.0 16.6

Manual Integrations
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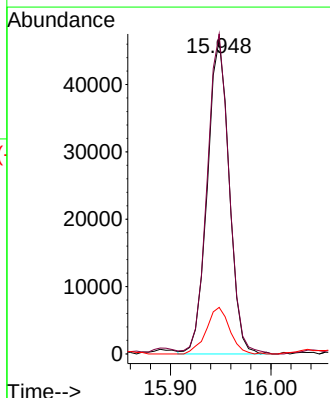
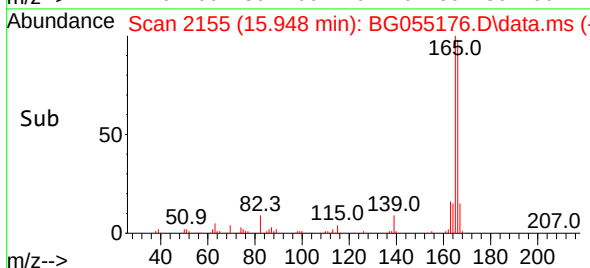
Reviewed By :Christian Giraldo 10/17/2022
Supervised By :mohammad ahmed 10/18/2022

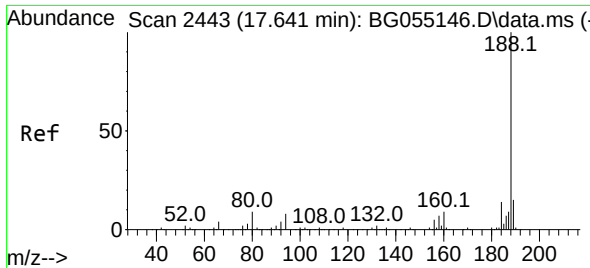


#58
Fluorene
Concen: 8.729 ng
RT: 15.948 min Scan# 2155
Delta R.T. -0.001 min
Lab File: BG055176.D
Acq: 14 Oct 2022 13:30



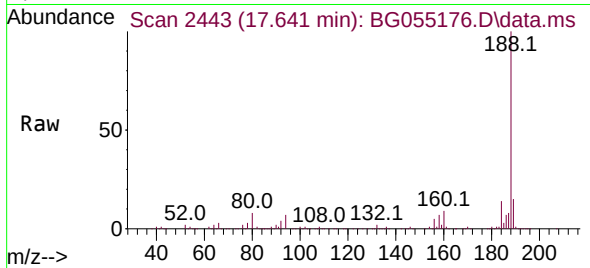
Tgt Ion:166 Resp: 70382
Ion Ratio Lower Upper
166 100
165 101.8 81.6 122.4
167 14.8 11.2 16.8





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.641 min Scan# 2443
Delta R.T. -0.001 min
Lab File: BG055176.D
Acq: 14 Oct 2022 13:30

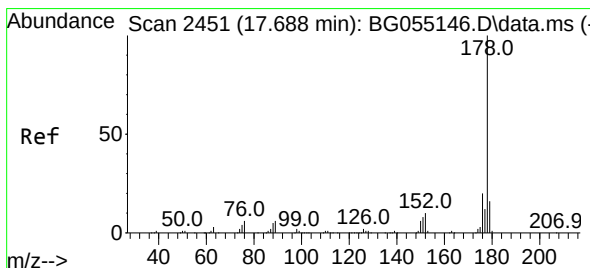
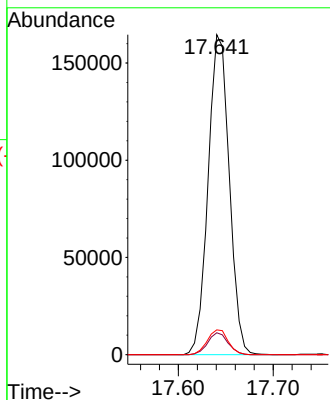
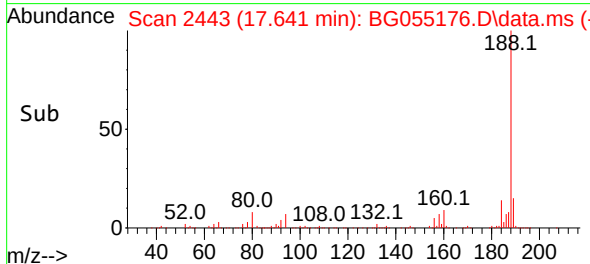
Instrument :
BNA_G
ClientSampleId :
OR-2-101222DL



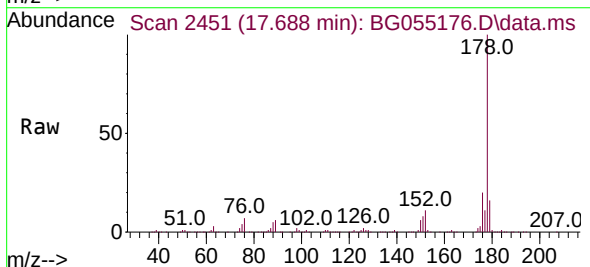
Tgt Ion:188 Resp: 254918
Ion Ratio Lower Upper
188 100
94 6.8 6.2 9.2
80 7.7 7.0 10.6

Manual Integrations
APPROVED

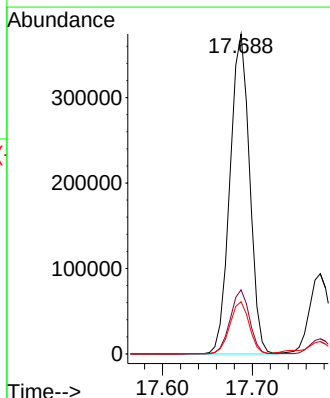
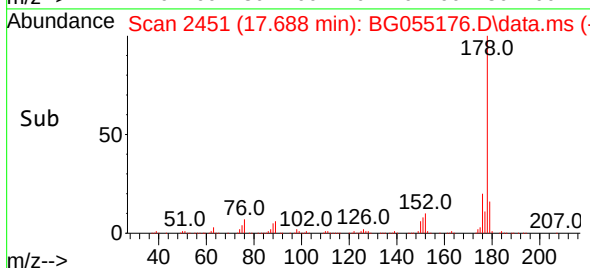
Reviewed By :Christian Giraldo 10/17/2022
Supervised By :mohammad ahmed 10/18/2022

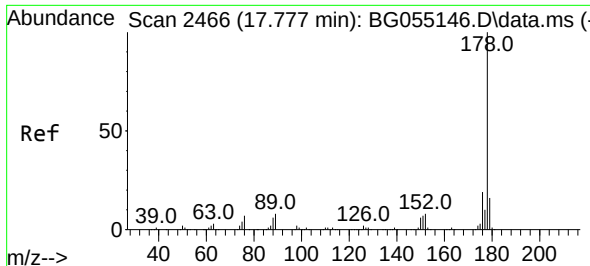


#71
Phenanthrene
Concen: 43.148 ng
RT: 17.688 min Scan# 2451
Delta R.T. -0.001 min
Lab File: BG055176.D
Acq: 14 Oct 2022 13:30



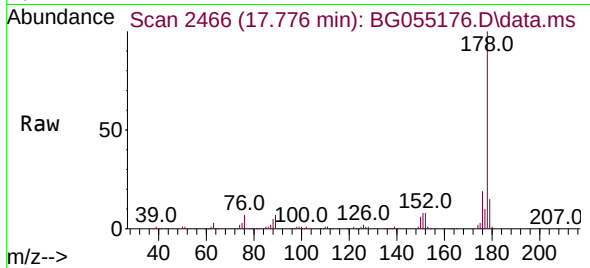
Tgt Ion:178 Resp: 570529
Ion Ratio Lower Upper
178 100
176 20.0 16.0 24.0
179 16.3 12.7 19.1





#72
 Anthracene
 Concen: 10.932 ng
 RT: 17.776 min Scan# 2466
 Delta R.T. -0.001 min
 Lab File: BG055176.D
 Acq: 14 Oct 2022 13:30

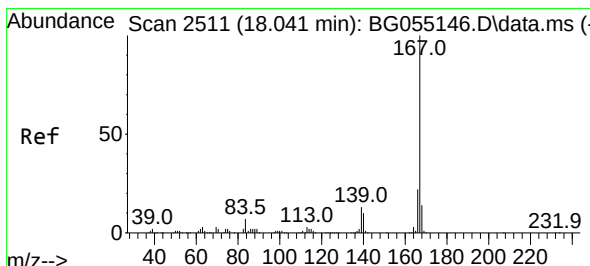
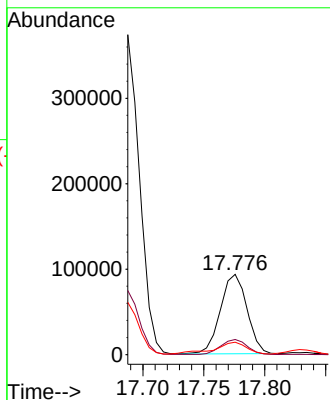
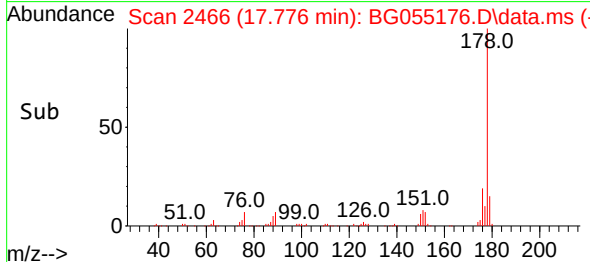
Instrument :
 BNA_G
 ClientSampleId :
 OR-2-101222DL



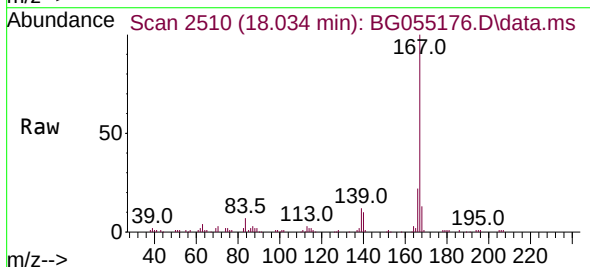
Tgt Ion:178 Resp: 141262
 Ion Ratio Lower Upper
 178 100
 176 18.8 15.1 22.7
 179 15.4 13.0 19.4

Manual Integrations
 APPROVED

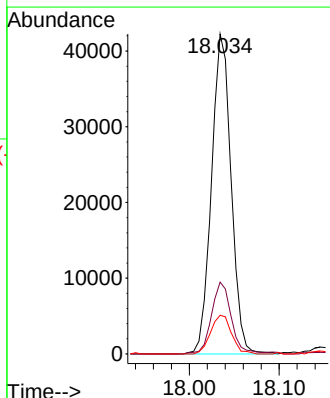
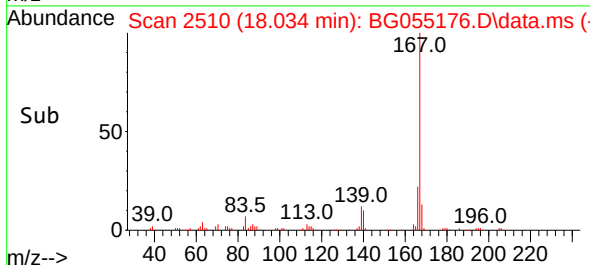
Reviewed By :Christian Giraldo 10/17/2022
 Supervised By :mohammad ahmed 10/18/2022

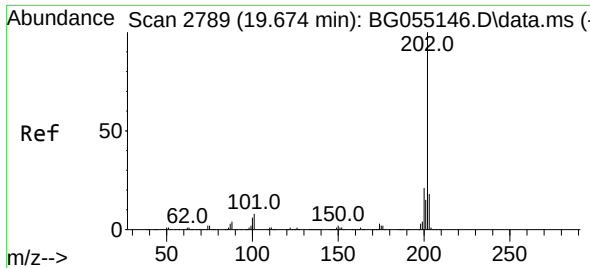


#73
 Carbazole
 Concen: 5.348 ng
 RT: 18.034 min Scan# 2510
 Delta R.T. -0.007 min
 Lab File: BG055176.D
 Acq: 14 Oct 2022 13:30



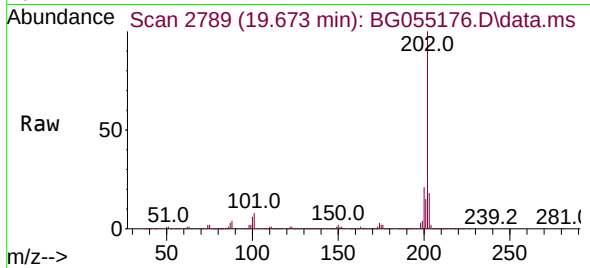
Tgt Ion:167 Resp: 64342
 Ion Ratio Lower Upper
 167 100
 166 22.4 17.9 26.9
 139 12.1 10.2 15.2





#75
Fluoranthene
Concen: 37.717 ng
RT: 19.673 min Scan# 21
Delta R.T. -0.001 min
Lab File: BG055176.D
Acq: 14 Oct 2022 13:30

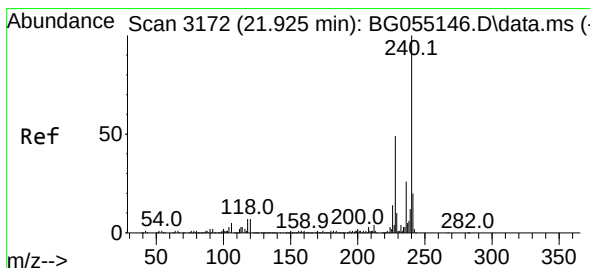
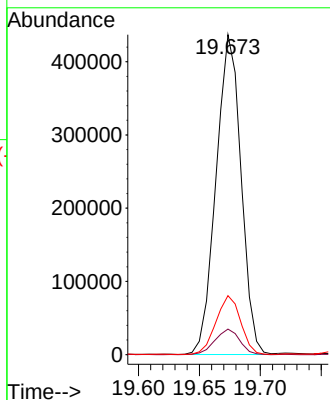
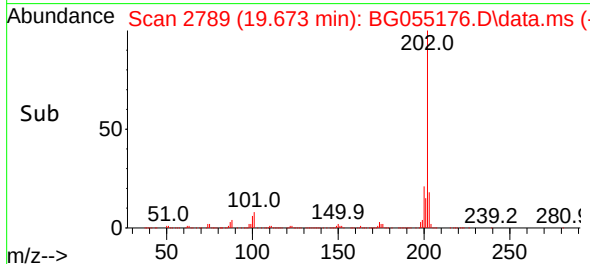
Instrument :
BNA_G
ClientSampleId :
OR-2-101222DL



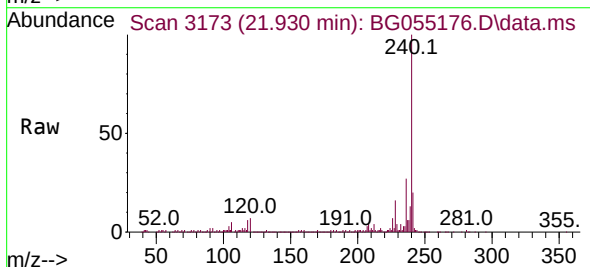
Tgt Ion:202 Resp: 623408
Ion Ratio Lower Upper
202 100
101 8.0 0.0 28.4
203 18.4 0.0 37.8

Manual Integrations
APPROVED

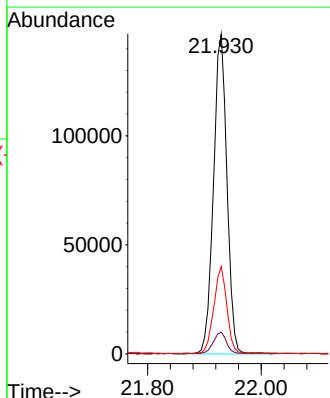
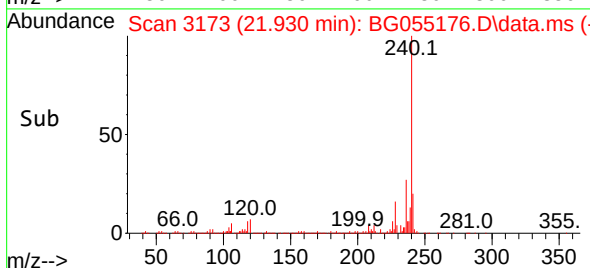
Reviewed By :Christian Giraldo 10/17/2022
Supervised By :mohammad ahmed 10/18/2022

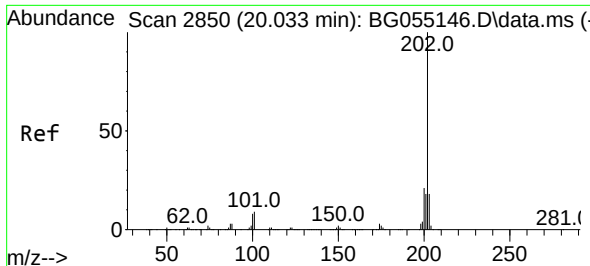


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.930 min Scan# 3173
Delta R.T. 0.005 min
Lab File: BG055176.D
Acq: 14 Oct 2022 13:30



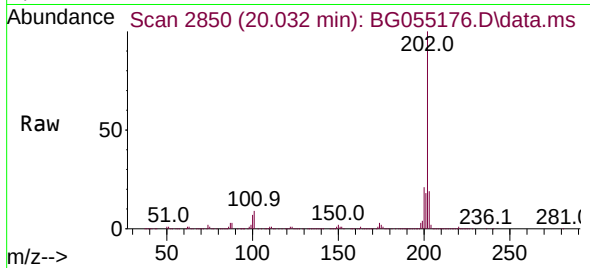
Tgt Ion:240 Resp: 242126
Ion Ratio Lower Upper
240 100
120 6.8 5.4 8.0
236 27.3 20.6 31.0





#78
Pyrene
Concen: 31.478 ng
RT: 20.032 min Scan# 2850
Delta R.T. -0.001 min
Lab File: BG055176.D
Acq: 14 Oct 2022 13:30

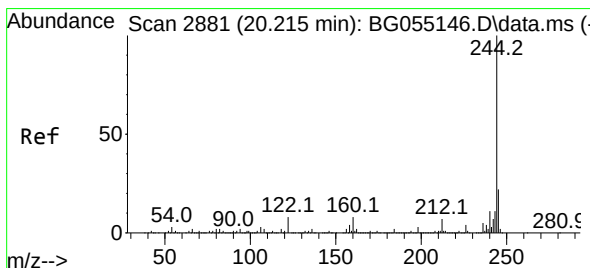
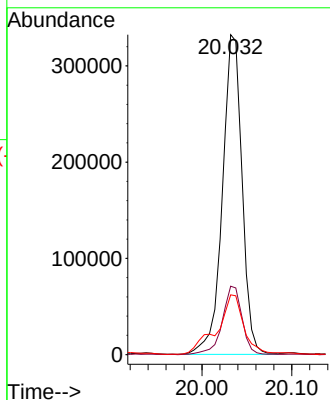
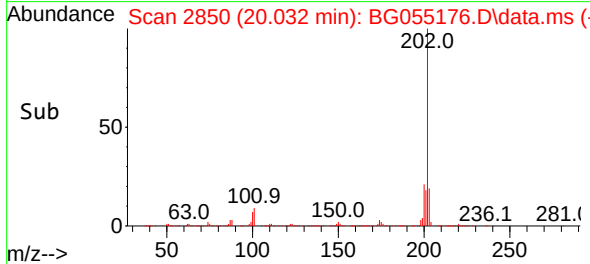
Instrument :
BNA_G
ClientSampleId :
OR-2-101222DL



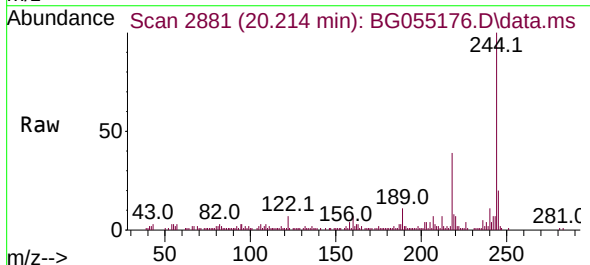
Tgt Ion:202 Resp: 508072
Ion Ratio Lower Upper
202 100
200 21.4 16.9 25.3
203 18.7 14.4 21.6

Manual Integrations
APPROVED

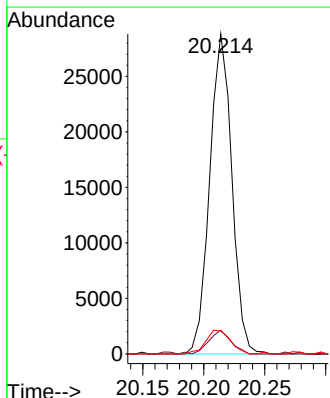
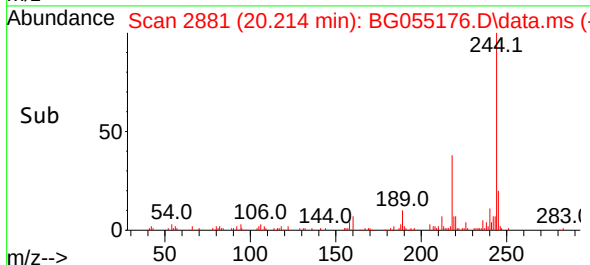
Reviewed By :Christian Giraldo 10/17/2022
Supervised By :mohammad ahmed 10/18/2022

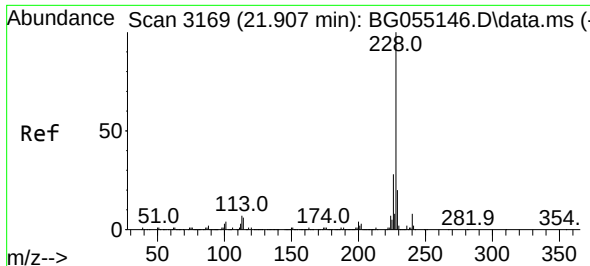


#79
Terphenyl-d14
Concen: 3.033 ng
RT: 20.214 min Scan# 2881
Delta R.T. -0.001 min
Lab File: BG055176.D
Acq: 14 Oct 2022 13:30



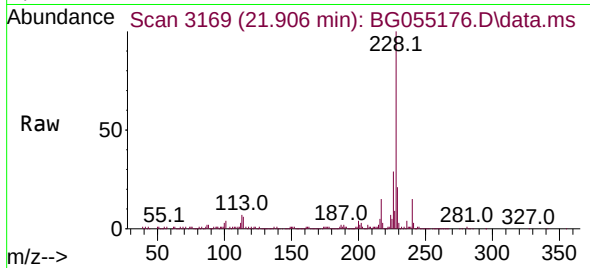
Tgt Ion:244 Resp: 36464
Ion Ratio Lower Upper
244 100
212 7.4 5.9 8.9
122 7.1 6.6 10.0





#81
Benzo(a)anthracene
Concen: 15.572 ng
RT: 21.906 min Scan# 3169
Delta R.T. -0.001 min
Lab File: BG055176.D
Acq: 14 Oct 2022 13:30

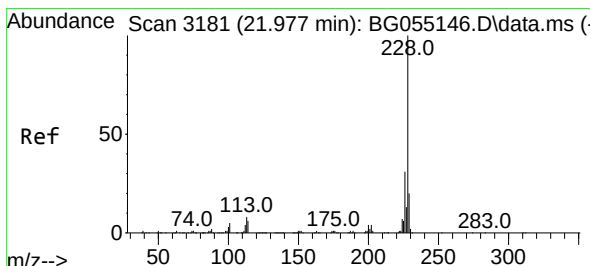
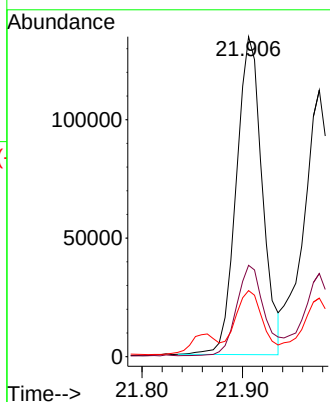
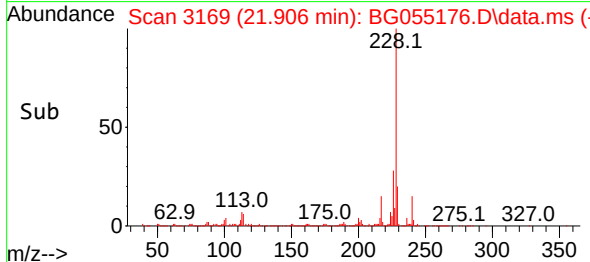
Instrument :
BNA_G
ClientSampleId :
OR-2-101222DL



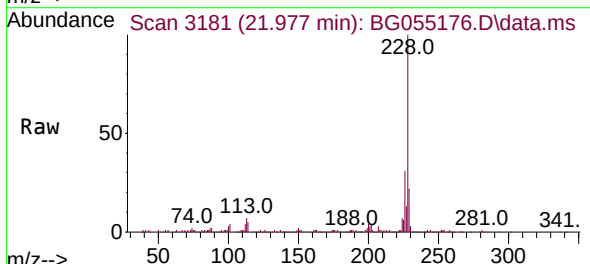
Tgt Ion:228 Resp: 241240
Ion Ratio Lower Upper
228 100
226 28.5 22.6 34.0
229 20.6 16.2 24.4

Manual Integrations
APPROVED

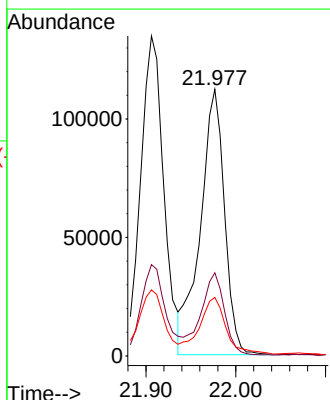
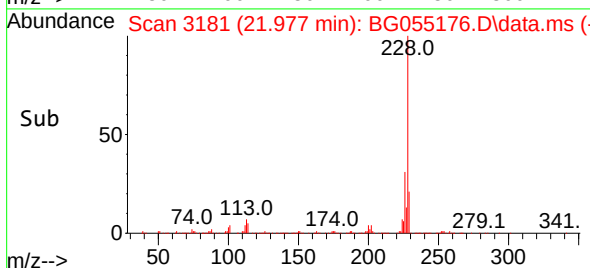
Reviewed By :Christian Giraldo 10/17/2022
Supervised By :mohammad ahmed 10/18/2022

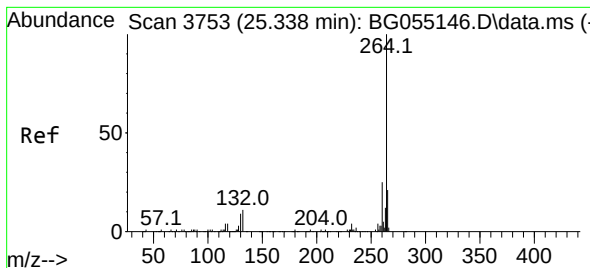


#83
Chrysene
Concen: 14.416 ng
RT: 21.977 min Scan# 3181
Delta R.T. -0.001 min
Lab File: BG055176.D
Acq: 14 Oct 2022 13:30



Tgt Ion:228 Resp: 210668
Ion Ratio Lower Upper
228 100
226 31.2 25.1 37.7
229 21.9 16.2 24.2





#86

Perylene-d12

Concen: 20.000 ng

RT: 25.349 min Scan# 31

Delta R.T. 0.011 min

Lab File: BG055176.D

Acq: 14 Oct 2022 13:30

Instrument :

BNA_G

ClientSampleId :

OR-2-101222DL

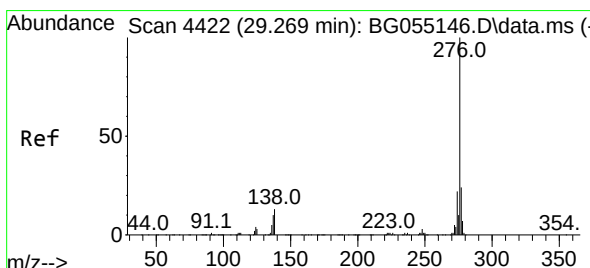
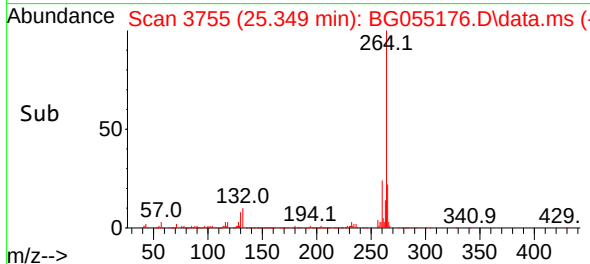
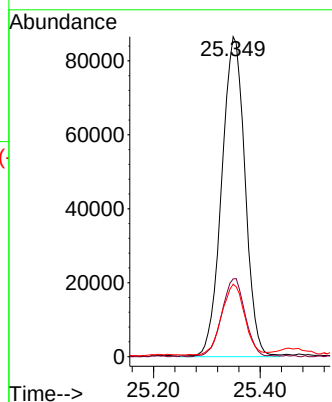
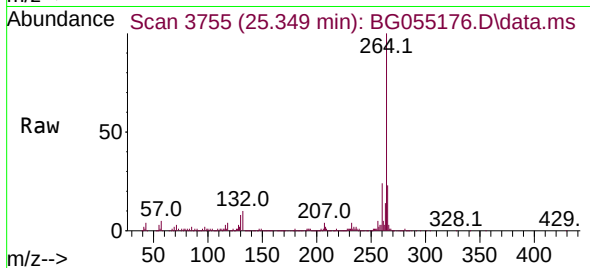
Tgt Ion:264 Resp: 26262

Ion	Ratio	Lower	Upper
264	100		
260	24.3	20.1	30.1
265	22.6	16.8	25.2

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 10/17/2022
Supervised By :mohammad ahmed 10/18/2022



#87

Indeno(1,2,3-cd)pyrene

Concen: 7.359 ng

RT: 29.280 min Scan# 4424

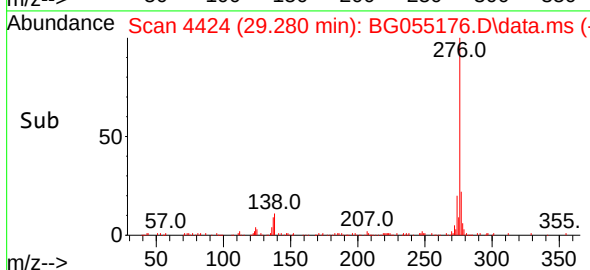
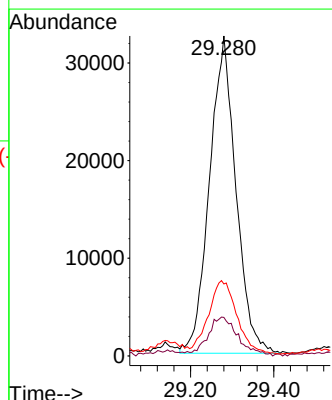
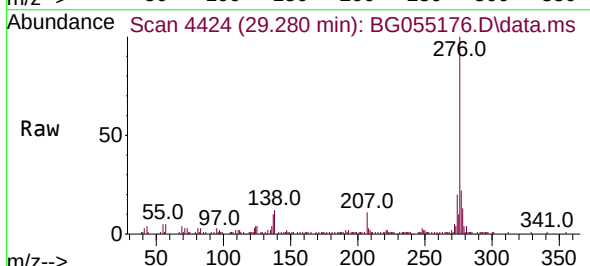
Delta R.T. 0.011 min

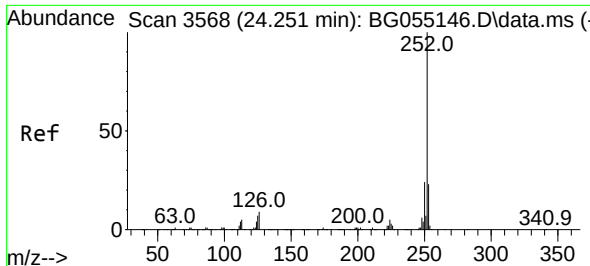
Lab File: BG055176.D

Acq: 14 Oct 2022 13:30

Tgt Ion:276 Resp: 143165

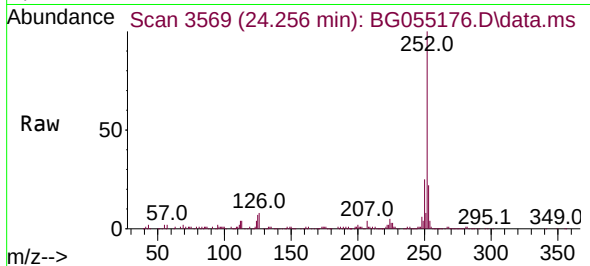
Ion	Ratio	Lower	Upper
276	100		
138	13.9	13.4	20.0
277	25.2	20.5	30.7





#88
Benzo(b)fluoranthene
Concen: 17.747 ng
RT: 24.256 min Scan# 3568
Delta R.T. 0.005 min
Lab File: BG055176.D
Acq: 14 Oct 2022 13:30

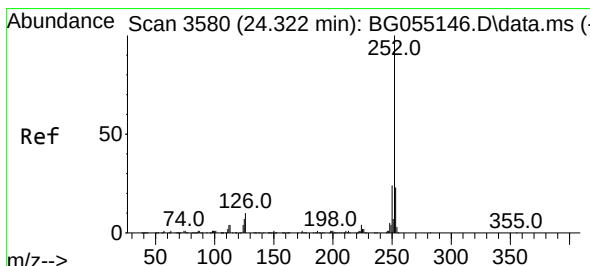
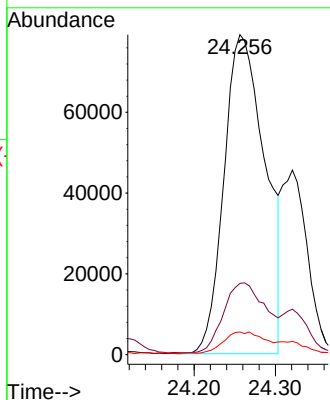
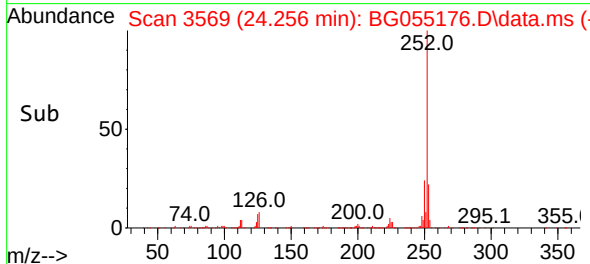
Instrument :
BNA_G
ClientSampleId :
OR-2-101222DL



Tgt Ion:252 Resp: 277794
Ion Ratio Lower Upper
252 100
253 22.3 18.2 27.2
125 7.1 5.7 8.5

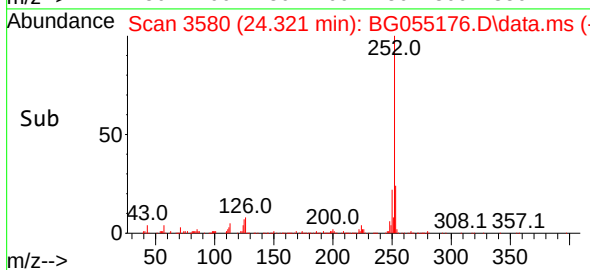
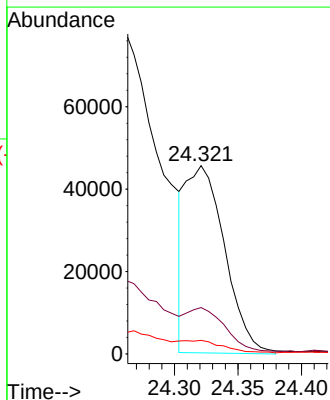
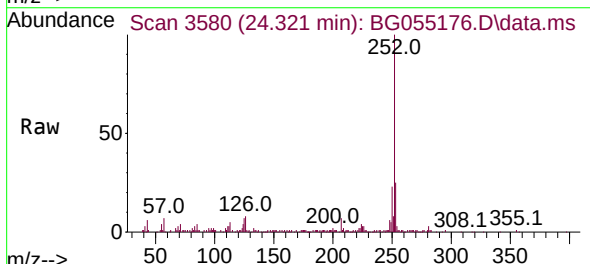
Manual Integrations
APPROVED

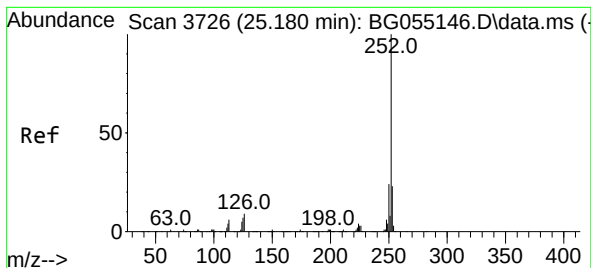
Reviewed By :Christian Giraldo 10/17/2022
Supervised By :mohammad ahmed 10/18/2022



#89
Benzo(k)fluoranthene
Concen: 6.197 ng m
RT: 24.321 min Scan# 3580
Delta R.T. -0.001 min
Lab File: BG055176.D
Acq: 14 Oct 2022 13:30

Tgt Ion:252 Resp: 97463
Ion Ratio Lower Upper
252 100
253 24.6 18.0 27.0
125 7.1 5.8 8.6





#90

Benzo(a)pyrene

Concen: 16.067 ng

RT: 25.185 min Scan# 31

Delta R.T. 0.005 min

Lab File: BG055176.D

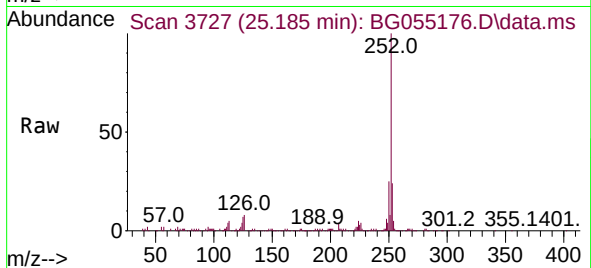
Acq: 14 Oct 2022 13:30

Instrument :

BNA_G

ClientSampleId :

OR-2-101222DL



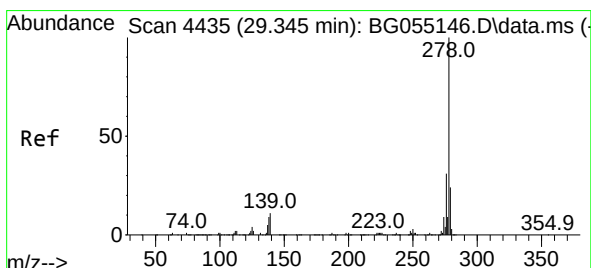
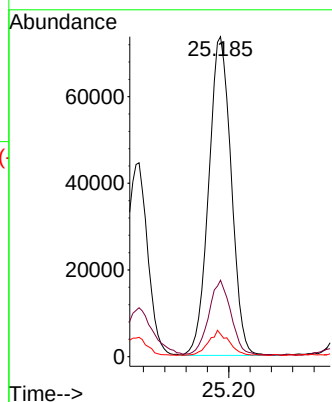
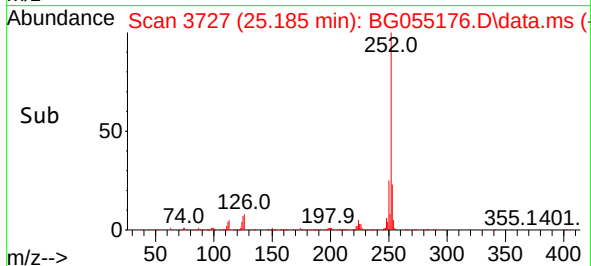
Tgt Ion:252 Resp: 215065

Ion	Ratio	Lower	Upper
252	100		
253	23.9	18.2	27.2
125	7.1	5.8	8.8

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 10/17/2022
Supervised By :mohammad ahmed 10/18/2022



#91

Dibenzo(a,h)anthracene

Concen: 2.399 ng

RT: 29.333 min Scan# 4433

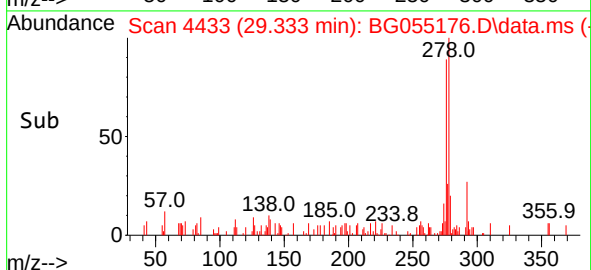
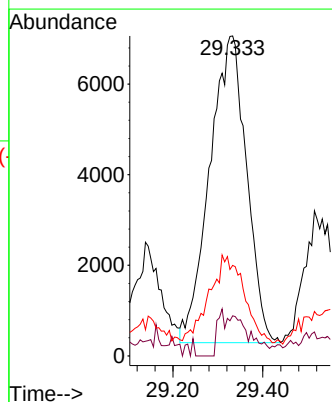
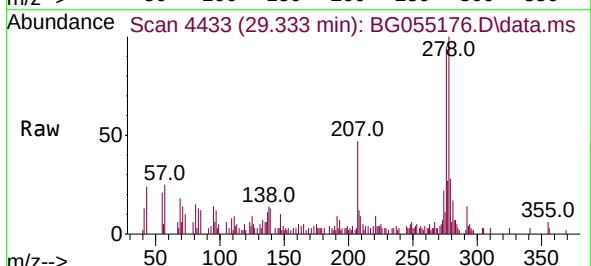
Delta R.T. -0.013 min

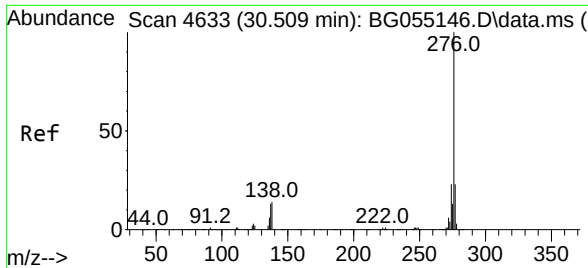
Lab File: BG055176.D

Acq: 14 Oct 2022 13:30

Tgt Ion:278 Resp: 38616

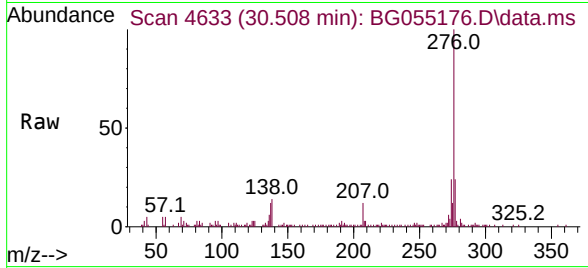
Ion	Ratio	Lower	Upper
278	100		
139	12.5	8.4	12.6
279	28.3	19.2	28.8





#92
 Benzo(g,h,i)perylene
 Concen: 8.367 ng
 RT: 30.508 min Scan# 4633
 Delta R.T. -0.001 min
 Lab File: BG055176.D
 Acq: 14 Oct 2022 13:30

Instrument :
 BNA_G
 ClientSampleId :
 OR-2-101222DL



Tgt Ion:	276	Resp:	131939
Ion Ratio	Lower	Upper	
276	100		
277	24.2	18.4	27.6
138	13.7	11.2	16.8

Manual Integrations
 APPROVED

Reviewed By :Christian Giraldo 10/17/2022
 Supervised By :mohammad ahmed 10/18/2022

