

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG122022\
 Data File : BG056033.D
 Acq On : 20 Dec 2022 17:06
 Operator : CG/JU
 Sample : N6135-01
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 72-11977

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 12/21/2022
 Supervised By : Jagrut Upadhyay 12/21/2022

Quant Time: Dec 21 02:38:07 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG121322.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 21 01:11:10 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.371	152	12033	20.000	ng	0.00
21) Naphthalene-d8	11.198	136	46203	20.000	ng	# 0.00
39) Acenaphthene-d10	14.975	164	35525	20.000	ng	0.00
64) Phenanthrene-d10	17.708	188	85858	20.000	ng	0.00
76) Chrysene-d12	22.020	240	84994	20.000	ng	# 0.00
86) Perylene-d12	25.516	264	97799	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.886	112	75104	146.374	ng	0.00
7) Phenol-d6	7.502	99	91463	138.599	ng	0.00
23) Nitrobenzene-d5	9.541	82	64036	96.855	ng	0.00
42) 2,4,6-Tribromophenol	16.450	330	111315	129.948	ng	0.00
45) 2-Fluorobiphenyl	13.601	172	205608	81.172	ng	0.00
79) Terphenyl-d14	20.287	244	343861	71.504	ng	0.00
Target Compounds						Qvalue
49) Acenaphthylene	14.705	152	9528	3.051	ng	# 92
58) Fluorene	16.010	166	5965	2.070	ng	# 96
70) Pentachlorophenol	17.349	266	7342	8.287	ng	93
71) Phenanthrene	17.755	178	104105	23.137	ng	98
72) Anthracene	17.843	178	20094	4.514	ng	97
75) Fluoranthene	19.746	202	312825	49.651	ng	98
78) Pyrene	20.105	202	316685	61.575	ng	98
81) Benzo(a)anthracene	21.997	228	267010	44.644	ng	98
83) Chrysene	22.067	228	246197	43.922	ng	96
87) Indeno(1,2,3-cd)pyrene	29.535	276	151258	19.233	ng	# 90
88) Benzo(b)fluoranthene	24.400	252	415894	65.708	ng	99
89) Benzo(k)fluoranthene	24.464	252	171341m	27.133	ng	
90) Benzo(a)pyrene	25.357	252	299025	55.891	ng	99
91) Dibenzo(a,h)anthracene	29.605	278	37158m	5.645	ng	
92) Benzo(g,h,i)perylene	30.804	276	115911	18.213	ng	96

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

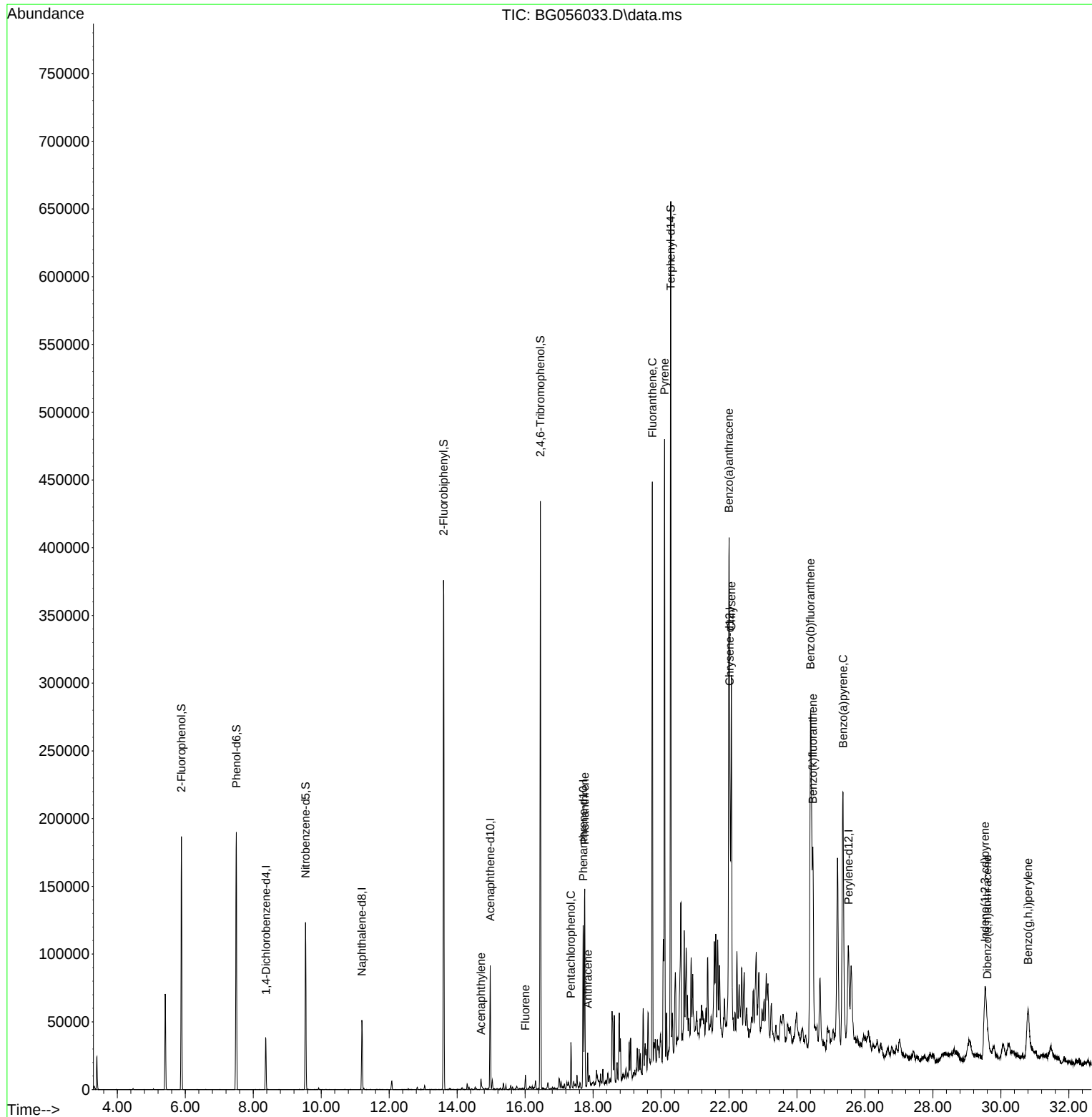
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG122022\
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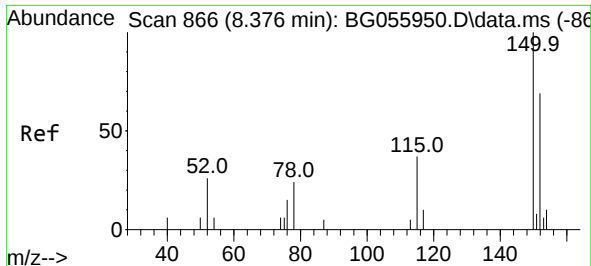
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG121322.M
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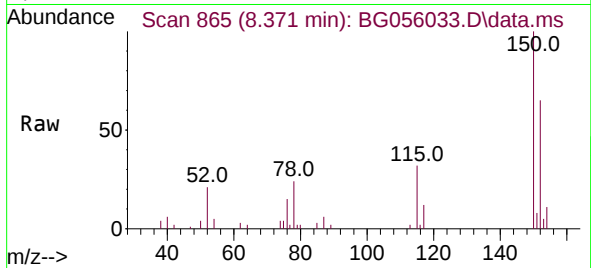
Reviewed By : Christian Giraldo 12/21/2022
Supervised By : Jagrut Upadhyay 12/21/2022





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.371 min Scan# 866
Delta R.T. 0.006 min
Lab File: BG056033.D
Acq: 20 Dec 2022 17:06

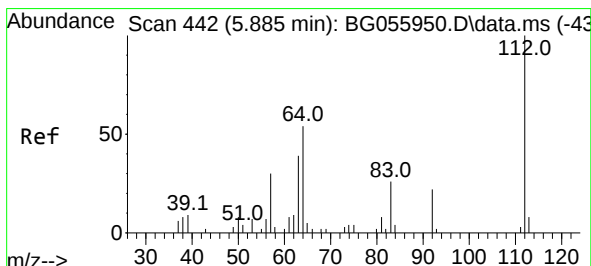
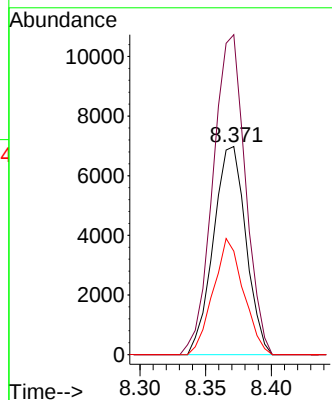
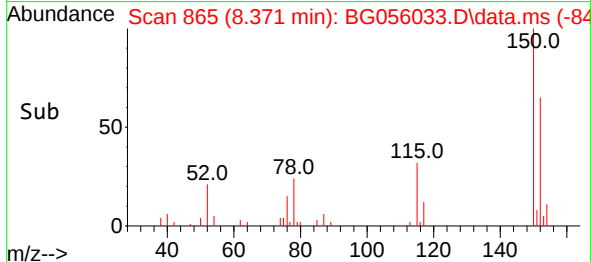
Instrument :
BNA_G
Client SampleId :
72-11977



Tgt Ion:152 Resp: 12033
Ion Ratio Lower Upper
152 100
150 153.7 115.7 173.5
115 49.7 43.0 64.4

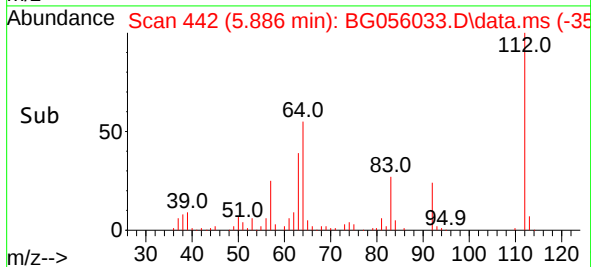
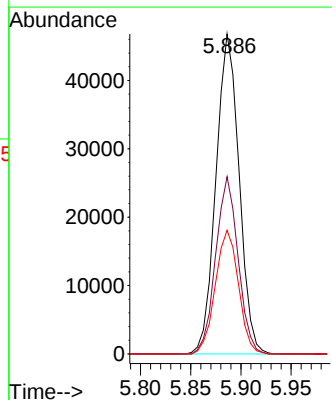
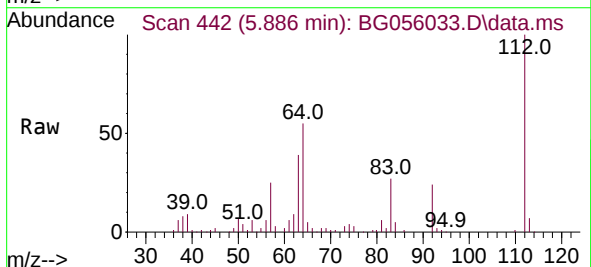
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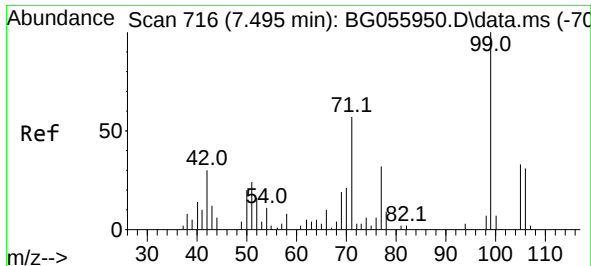
Reviewed By :Christian Giraldo 12/21/2022
Supervised By :Jagrut Upadhyay 12/21/2022



#5
2-Fluorophenol
Concen: 146.374 ng
RT: 5.886 min Scan# 442
Delta R.T. 0.007 min
Lab File: BG056033.D
Acq: 20 Dec 2022 17:06

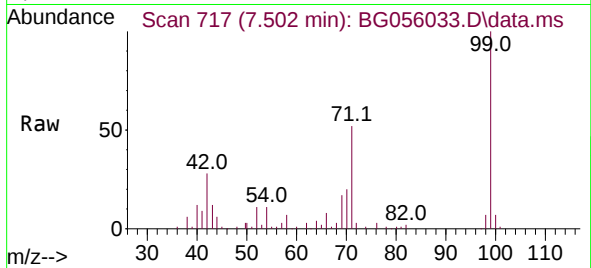
Tgt Ion:112 Resp: 75104
Ion Ratio Lower Upper
112 100
64 55.4 43.0 64.4
63 38.6 31.4 47.2





#7
Phenol-d6
Concen: 138.599 ng
RT: 7.502 min Scan# 716
Delta R.T. 0.007 min
Lab File: BG056033.D
Acq: 20 Dec 2022 17:06

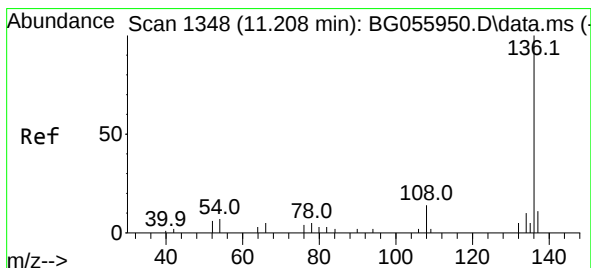
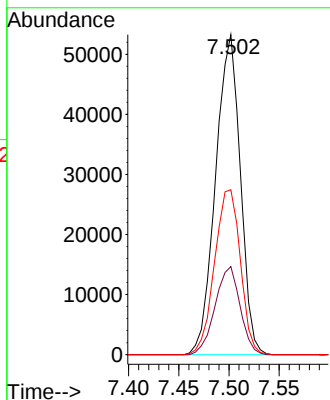
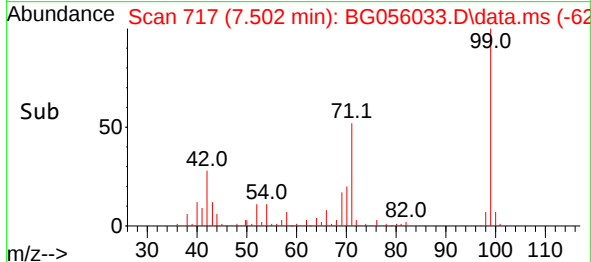
Instrument :
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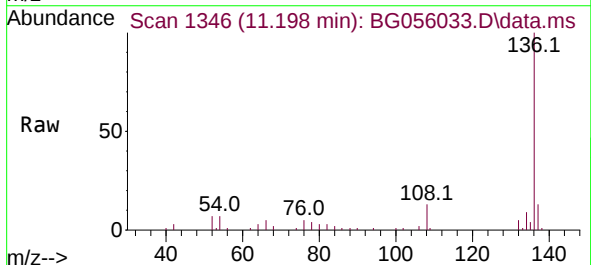
Tgt Ion: 99 Resp: 91463
Ion Ratio Lower Upper
99 100
42 27.5 24.3 36.5
71 51.5 45.6 68.4

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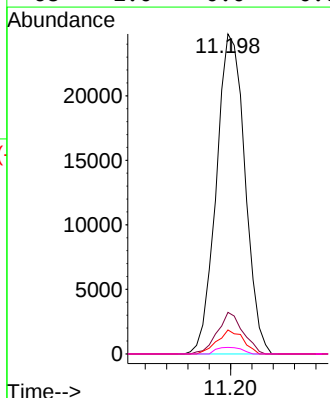
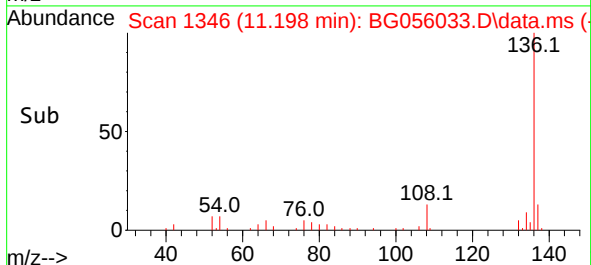
Reviewed By :Christian Giraldo 12/21/2022
Supervised By :Jagrut Upadhyay 12/21/2022

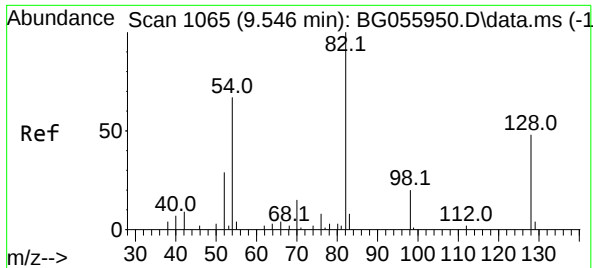


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.198 min Scan# 1346
Delta R.T. 0.001 min
Lab File: BG056033.D
Acq: 20 Dec 2022 17:06



Tgt Ion:136 Resp: 46203
Ion Ratio Lower Upper
136 100
137 13.0 9.2 13.8
54 7.5 5.6 8.4
68 2.0 0.0 0.0#





#23

Nitrobenzene-d5

Concen: 96.855 ng

RT: 9.541 min Scan# 1064

Delta R.T. 0.001 min

Lab File: BG056033.D

Acq: 20 Dec 2022 17:06

Instrument :

BNA_G

ClientSampleId :

72-11977

Tgt Ion: 82 Resp: 64036

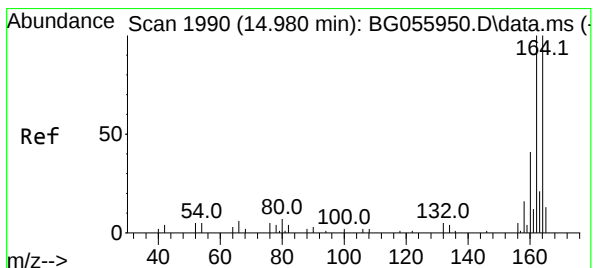
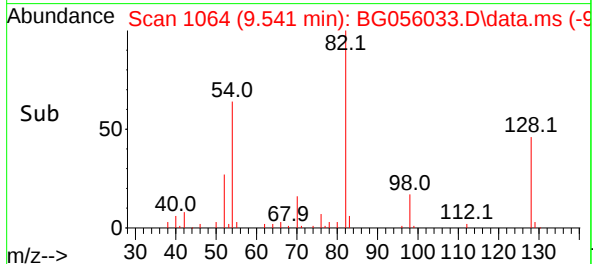
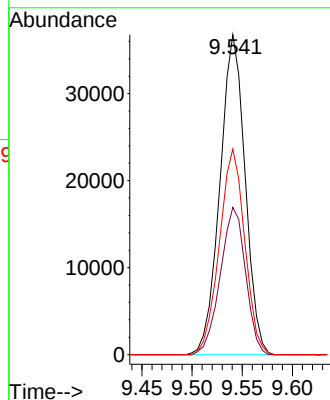
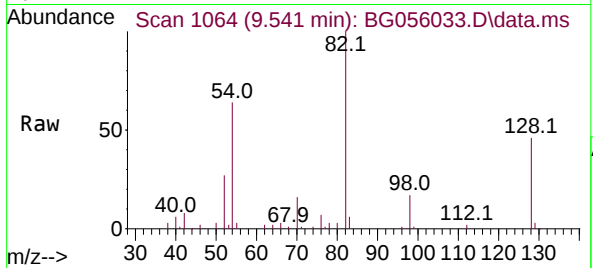
Ion	Ratio	Lower	Upper
82	100		
128	46.0	38.4	57.6
54	64.2	53.3	79.9

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#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.975 min Scan# 1989

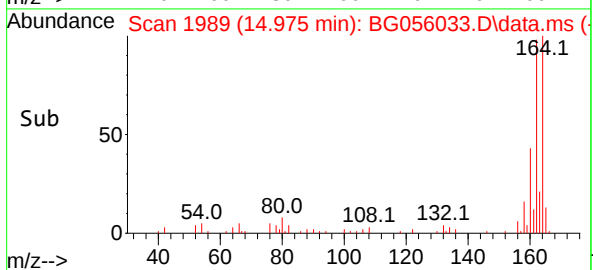
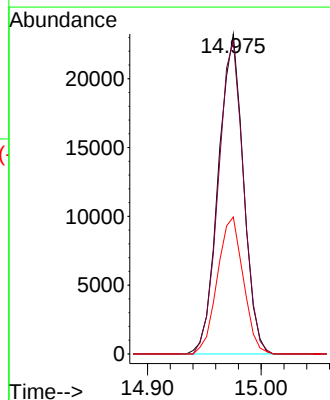
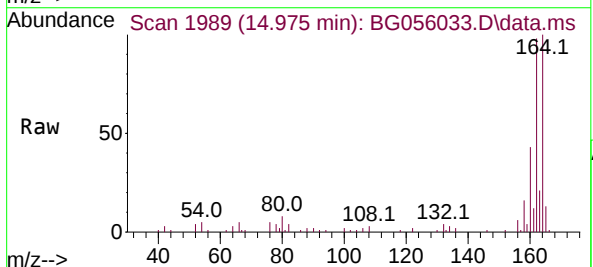
Delta R.T. 0.001 min

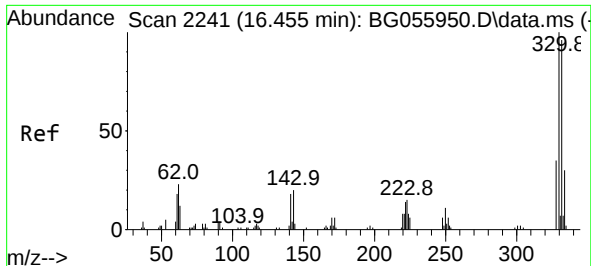
Lab File: BG056033.D

Acq: 20 Dec 2022 17:06

Tgt Ion:164 Resp: 35525

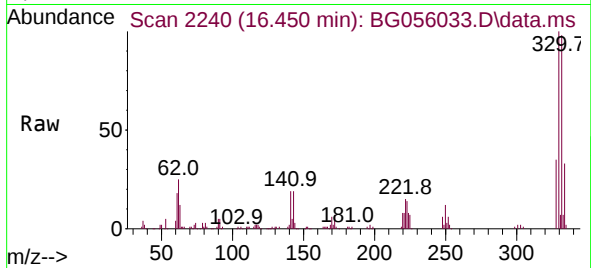
Ion	Ratio	Lower	Upper
164	100		
162	97.8	79.8	119.8
160	42.8	33.0	49.4





#42
2,4,6-Tribromophenol
Concen: 129.948 ng
RT: 16.450 min Scan# 21
Delta R.T. 0.001 min
Lab File: BG056033.D
Acq: 20 Dec 2022 17:06

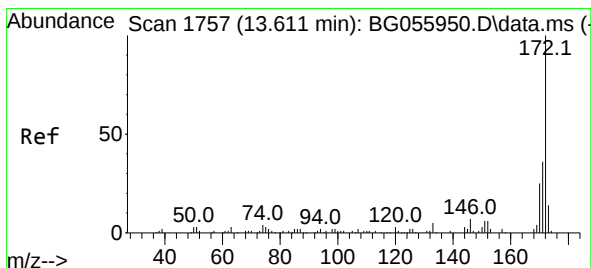
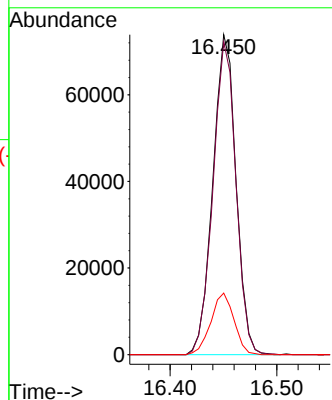
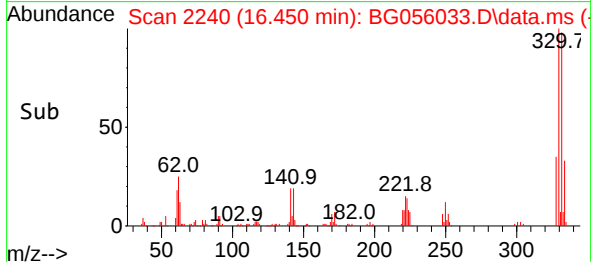
Instrument :
BNA_G
ClientSampleId :
72-11977



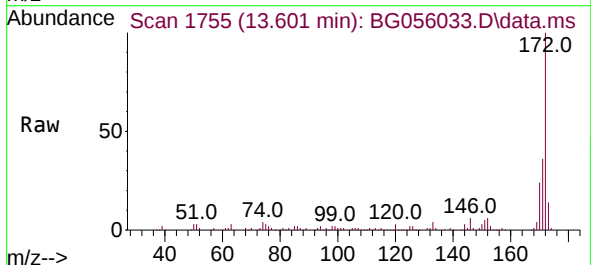
Tgt Ion:330 Resp: 111315
Ion Ratio Lower Upper
330 100
332 97.1 76.6 114.8
141 19.2 15.0 22.4

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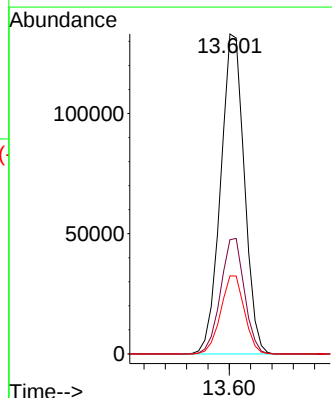
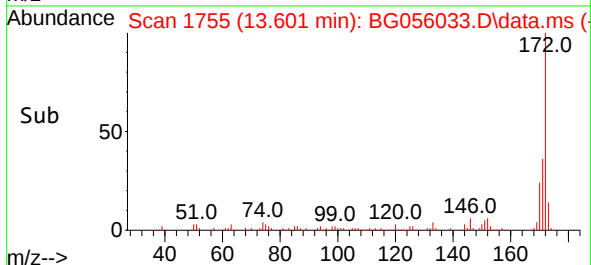
Reviewed By :Christian Giraldo 12/21/2022
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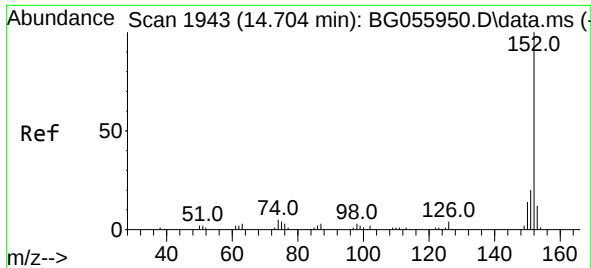


#45
2-Fluorobiphenyl
Concen: 81.172 ng
RT: 13.601 min Scan# 1755
Delta R.T. 0.001 min
Lab File: BG056033.D
Acq: 20 Dec 2022 17:06



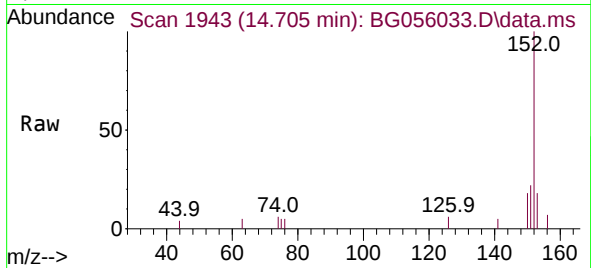
Tgt Ion:172 Resp: 205608
Ion Ratio Lower Upper
172 100
171 35.7 28.6 42.8
170 24.4 19.9 29.9





#49
Acenaphthylene
Concen: 3.051 ng
RT: 14.705 min Scan# 1943
Delta R.T. 0.007 min
Lab File: BG056033.D
Acq: 20 Dec 2022 17:06

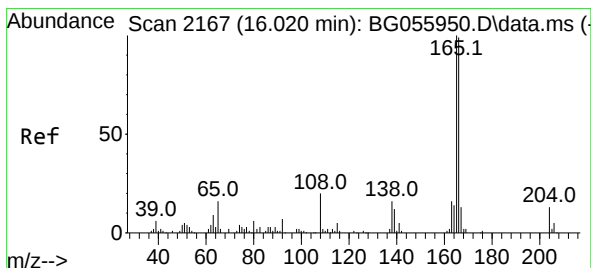
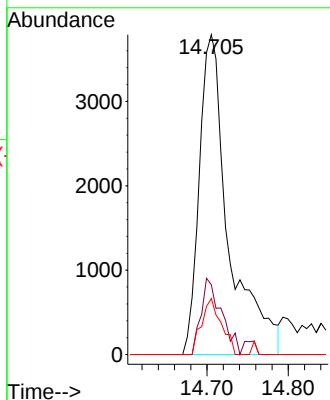
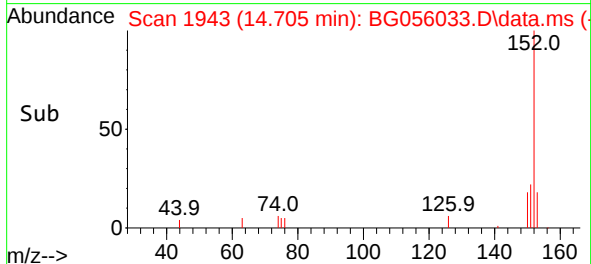
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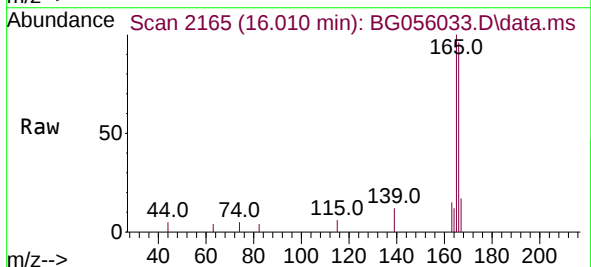
Tgt Ion:152 Resp: 9528
Ion Ratio Lower Upper
152 100
151 21.8 15.8 23.8
153 17.5 10.0 15.0

Manual Integrations
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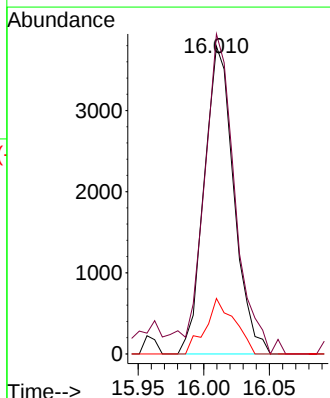
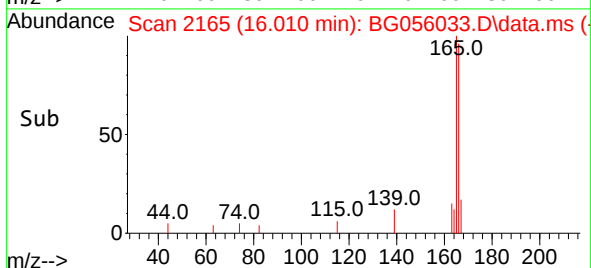
Reviewed By :Christian Giraldo 12/21/2022
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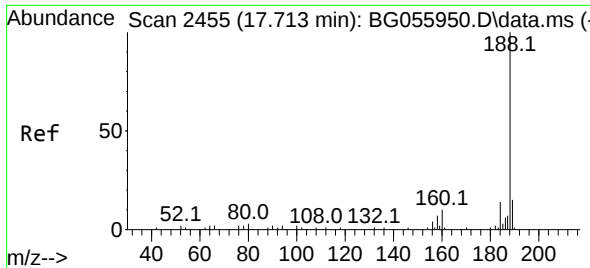


#58
Fluorene
Concen: 2.070 ng
RT: 16.010 min Scan# 2165
Delta R.T. -0.005 min
Lab File: BG056033.D
Acq: 20 Dec 2022 17:06



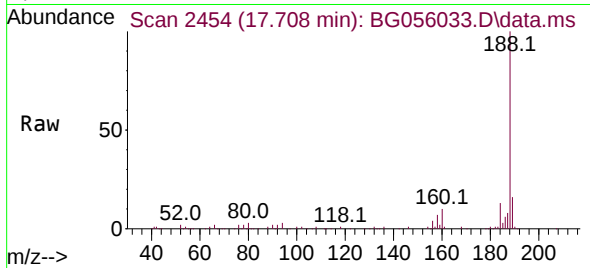
Tgt Ion:166 Resp: 5965
Ion Ratio Lower Upper
166 100
165 104.0 81.1 121.7
167 18.0 10.5 15.7





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.708 min Scan# 2455
Delta R.T. 0.001 min
Lab File: BG056033.D
Acq: 20 Dec 2022 17:06

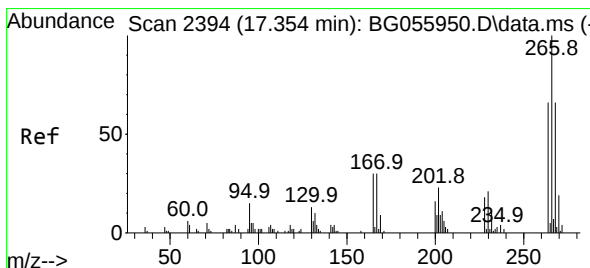
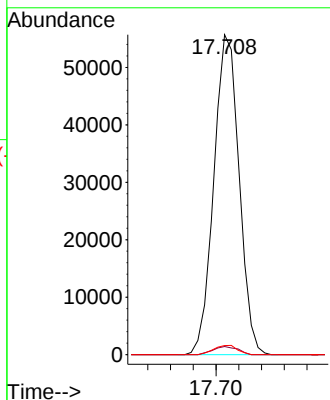
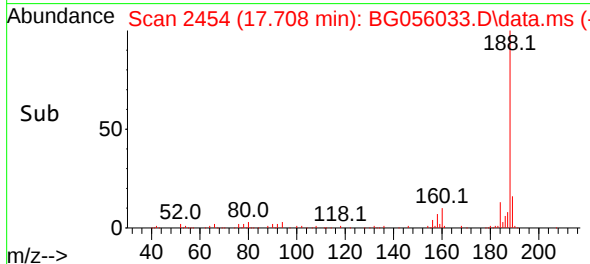
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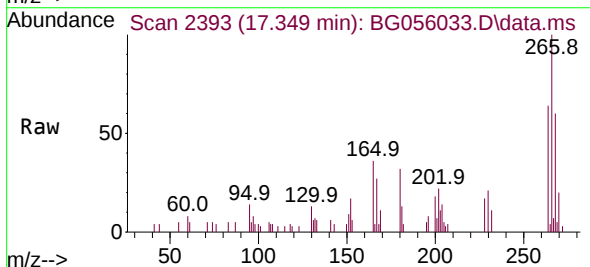
Tgt Ion:188 Resp: 85858
Ion Ratio Lower Upper
188 100
94 2.6 1.8 2.8
80 2.8 2.4 3.6

Manual Integrations
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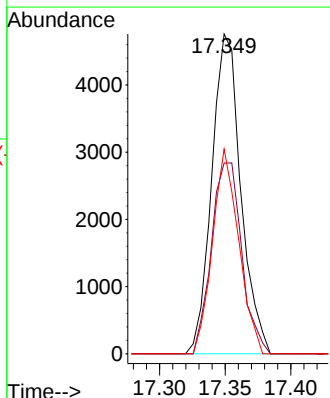
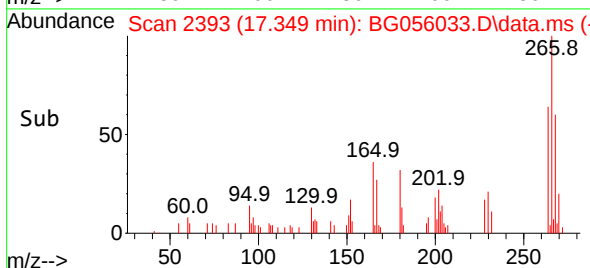
Reviewed By :Christian Giraldo 12/21/2022
Supervised By :Jagrut Upadhyay 12/21/2022

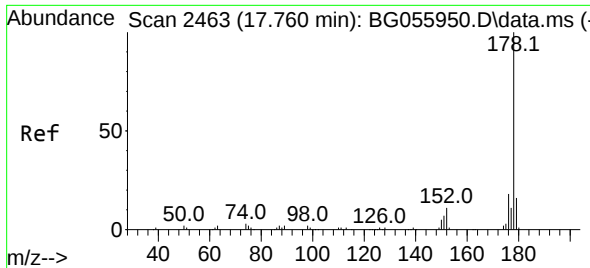


#70
Pentachlorophenol
Concen: 8.287 ng
RT: 17.349 min Scan# 2393
Delta R.T. 0.001 min
Lab File: BG056033.D
Acq: 20 Dec 2022 17:06



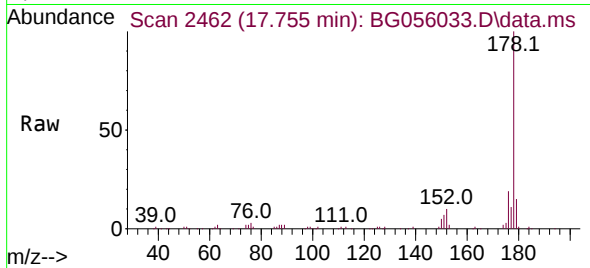
Tgt Ion:266 Resp: 7342
Ion Ratio Lower Upper
266 100
268 59.6 55.5 83.3
264 64.0 52.6 78.8





#71
Phenanthrene
Concen: 23.137 ng
RT: 17.755 min Scan# 2463
Delta R.T. 0.001 min
Lab File: BG056033.D
Acq: 20 Dec 2022 17:06

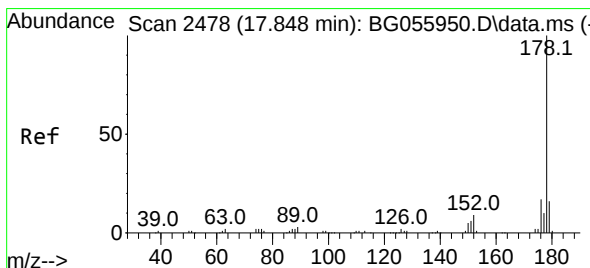
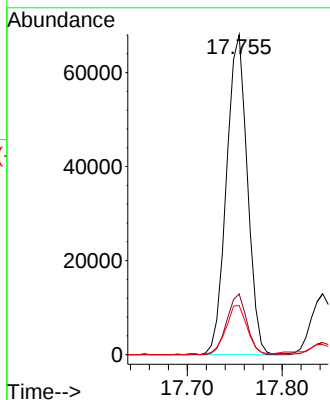
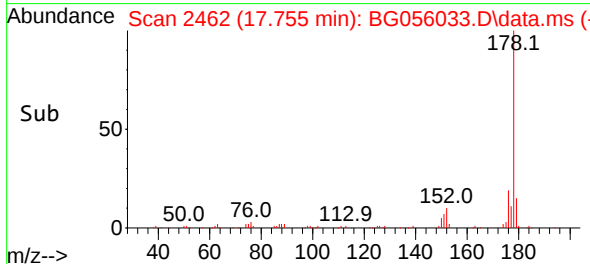
Instrument :
BNA_G
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72-11977



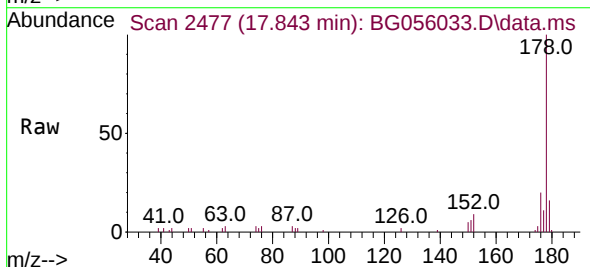
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Ion Ratio Lower Upper
178 100
176 19.0 14.4 21.6
179 15.3 12.7 19.1

Manual Integrations
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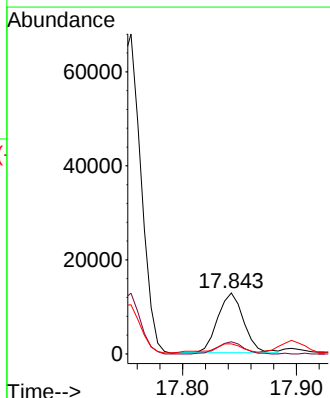
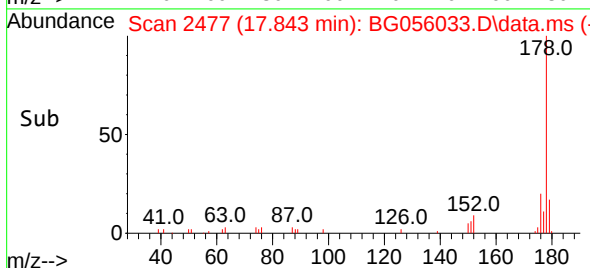
Reviewed By :Christian Giraldo 12/21/2022
Supervised By :Jagrut Upadhyay 12/21/2022

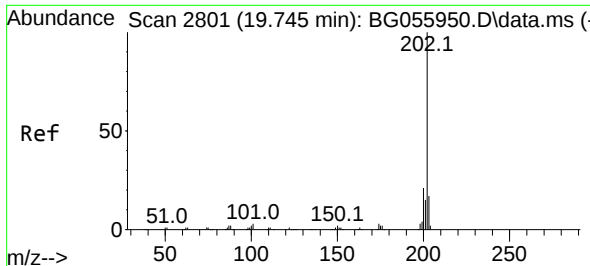


#72
Anthracene
Concen: 4.514 ng
RT: 17.843 min Scan# 2477
Delta R.T. 0.001 min
Lab File: BG056033.D
Acq: 20 Dec 2022 17:06



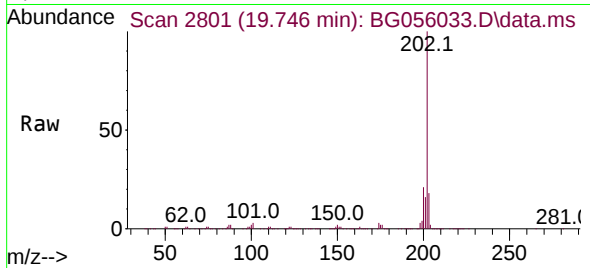
Tgt Ion:178 Resp: 20094
Ion Ratio Lower Upper
178 100
176 19.7 13.9 20.9
179 16.5 12.7 19.1





#75
Fluoranthene
Concen: 49.651 ng
RT: 19.746 min Scan# 2801
Delta R.T. 0.007 min
Lab File: BG056033.D
Acq: 20 Dec 2022 17:06

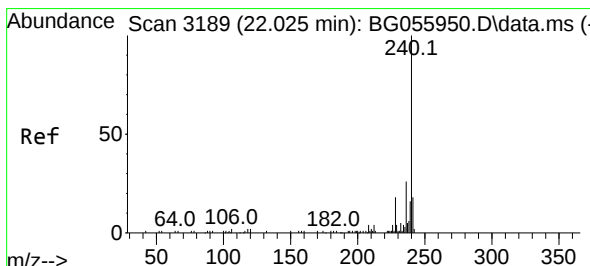
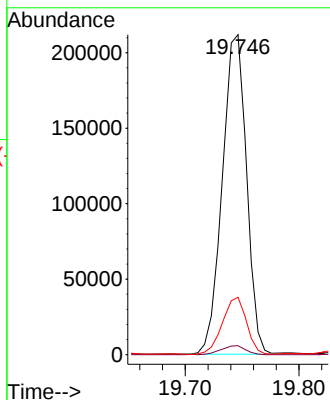
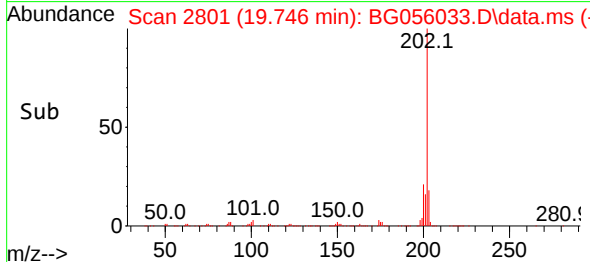
Instrument :
BNA_G
ClientSampleId :
72-11977



Tgt Ion:202 Resp: 312825
Ion Ratio Lower Upper
202 100
101 2.8 0.0 22.6
203 17.9 0.0 37.1

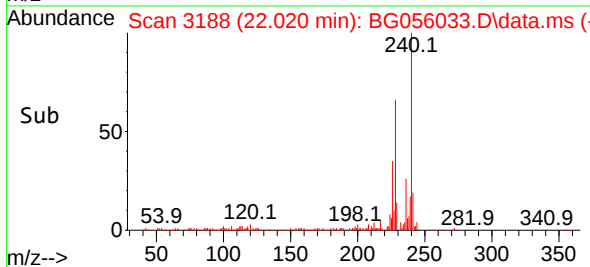
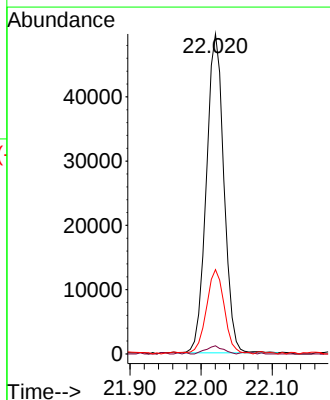
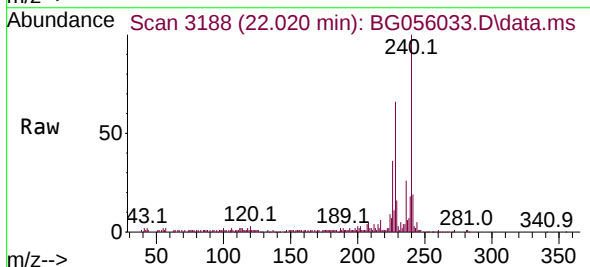
Manual Integrations
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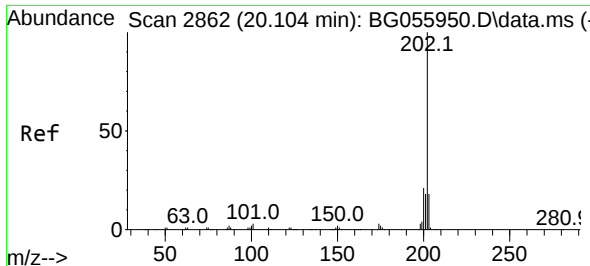
Reviewed By :Christian Giraldo 12/21/2022
Supervised By :Jagrut Upadhyay 12/21/2022



#76
Chrysene-d12
Concen: 20.000 ng
RT: 22.020 min Scan# 3188
Delta R.T. 0.007 min
Lab File: BG056033.D
Acq: 20 Dec 2022 17:06

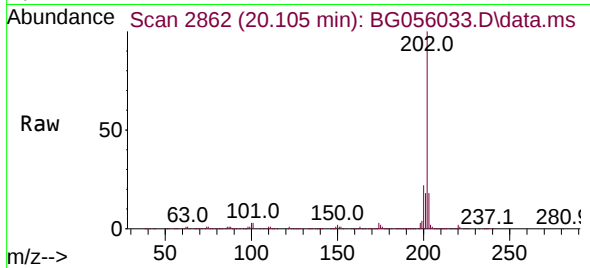
Tgt Ion:240 Resp: 84994
Ion Ratio Lower Upper
240 100
120 2.5 1.7 2.5#
236 26.3 21.1 31.7





#78
 Pyrene
 Concen: 61.575 ng
 RT: 20.105 min Scan# 2862
 Delta R.T. 0.007 min
 Lab File: BG056033.D
 Acq: 20 Dec 2022 17:06

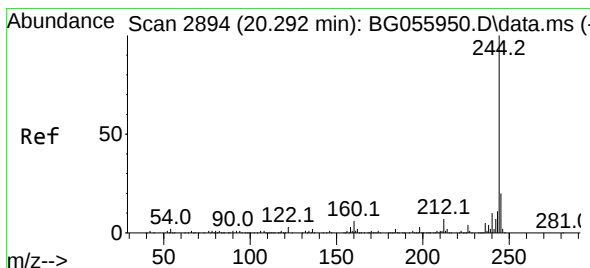
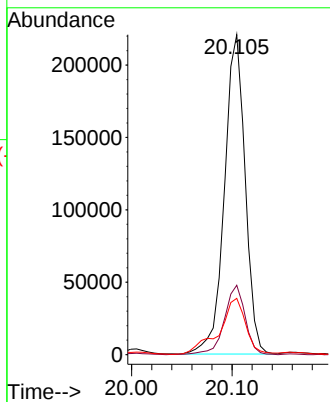
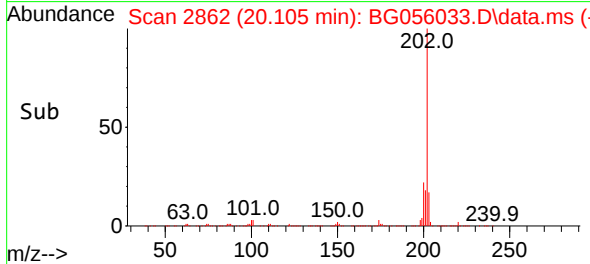
Instrument :
 BNA_G
 ClientSampleId :
 72-11977



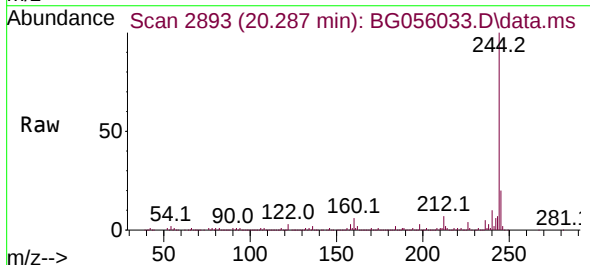
Tgt Ion:202 Resp: 316685
 Ion Ratio Lower Upper
 202 100
 200 21.7 16.7 25.1
 203 17.6 14.6 21.8

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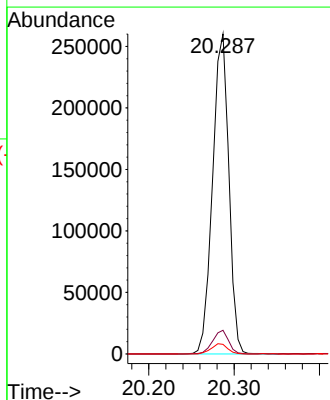
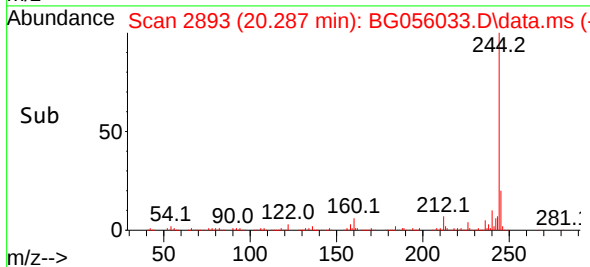
Reviewed By :Christian Giraldo 12/21/2022
 Supervised By :Jagrut Upadhyay 12/21/2022

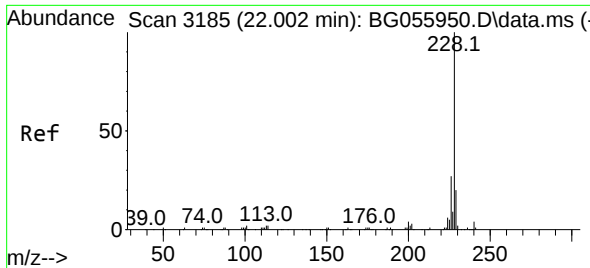


#79
 Terphenyl-d14
 Concen: 71.504 ng
 RT: 20.287 min Scan# 2893
 Delta R.T. 0.007 min
 Lab File: BG056033.D
 Acq: 20 Dec 2022 17:06



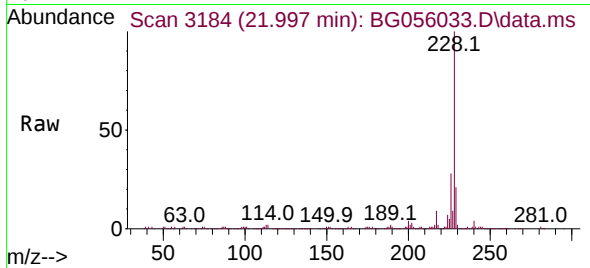
Tgt Ion:244 Resp: 343861
 Ion Ratio Lower Upper
 244 100
 212 7.4 5.8 8.6
 122 3.0 2.5 3.7





#81
Benzo(a)anthracene
Concen: 44.644 ng
RT: 21.997 min Scan# 3184
Delta R.T. 0.001 min
Lab File: BG056033.D
Acq: 20 Dec 2022 17:06

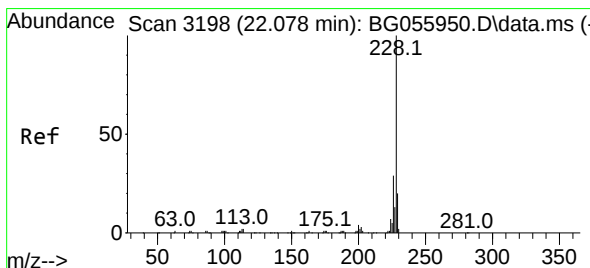
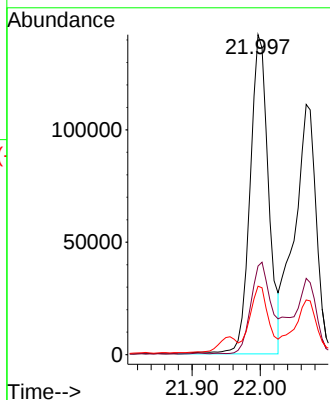
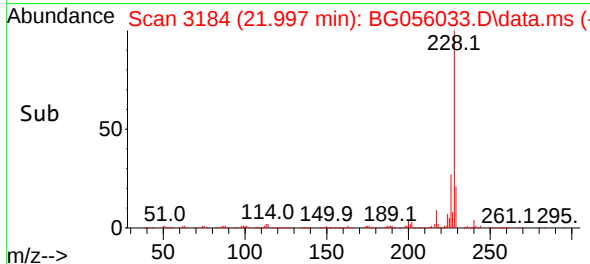
Instrument :
BNA_G
ClientSampleId :
72-11977



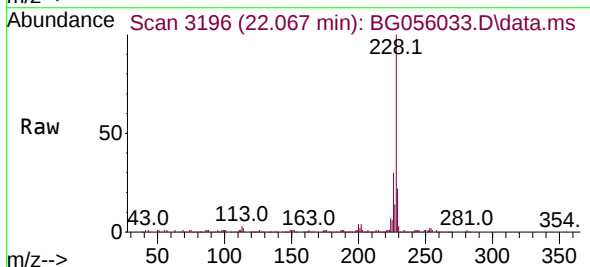
Tgt Ion:228 Resp: 267010
Ion Ratio Lower Upper
228 100
226 27.7 21.8 32.6
229 21.4 15.9 23.9

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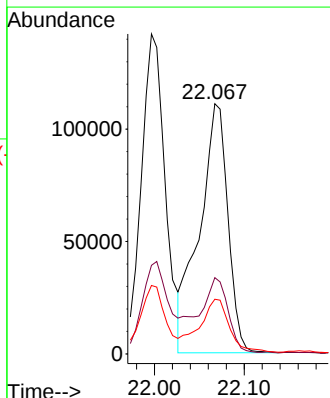
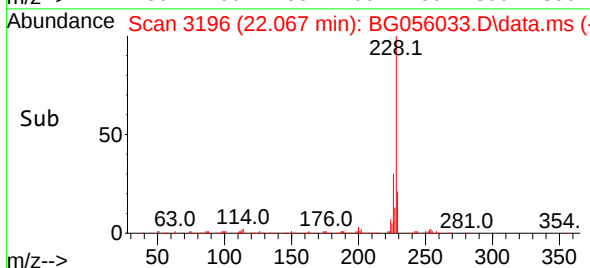
Reviewed By :Christian Giraldo 12/21/2022
Supervised By :Jagrut Upadhyay 12/21/2022

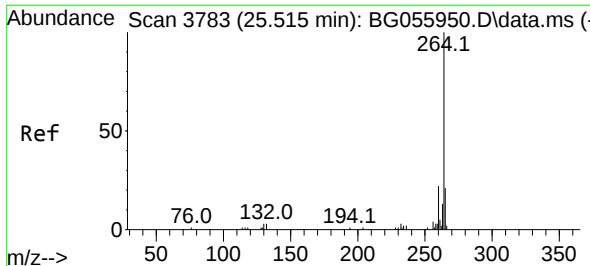


#83
Chrysene
Concen: 43.922 ng
RT: 22.067 min Scan# 3196
Delta R.T. 0.001 min
Lab File: BG056033.D
Acq: 20 Dec 2022 17:06



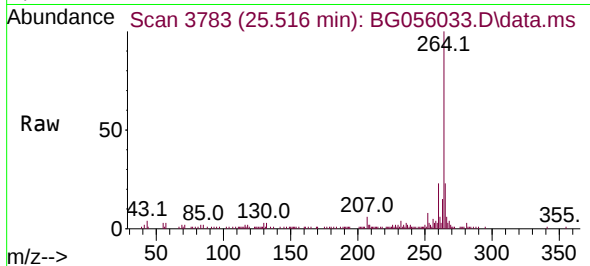
Tgt Ion:228 Resp: 246197
Ion Ratio Lower Upper
228 100
226 30.5 23.1 34.7
229 21.9 15.7 23.5





#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 25.516 min Scan# 31
 Delta R.T. 0.018 min
 Lab File: BG056033.D
 Acq: 20 Dec 2022 17:06

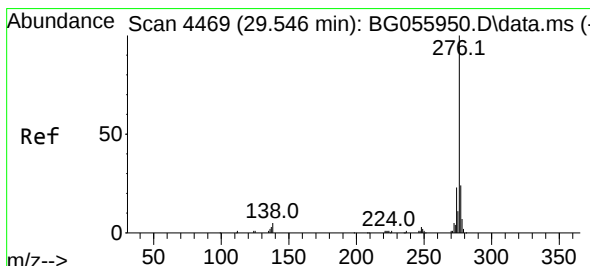
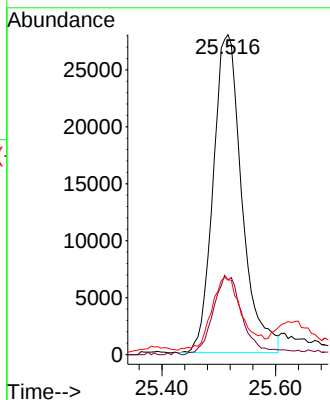
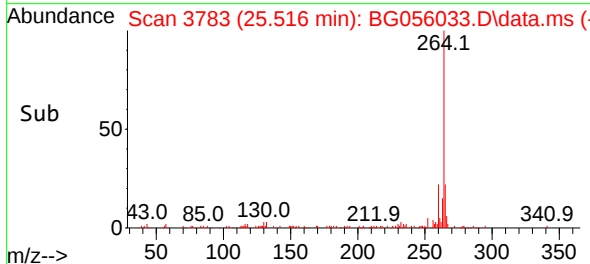
Instrument :
 BNA_G
 ClientSampleId :
 72-11977



Tgt Ion:264 Resp: 97799
 Ion Ratio Lower Upper
 264 100
 260 23.3 17.8 26.8
 265 23.4 16.6 25.0

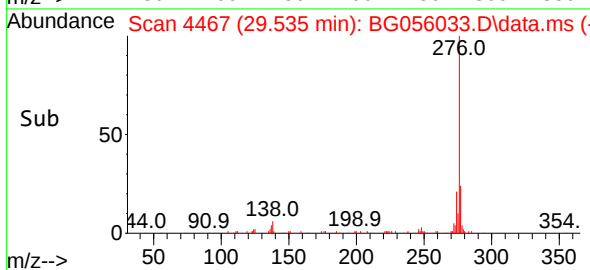
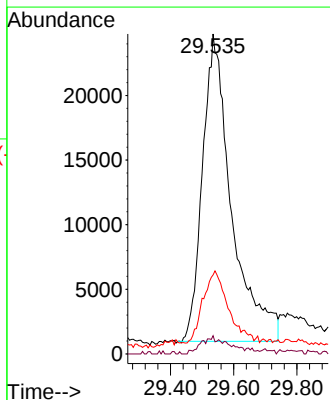
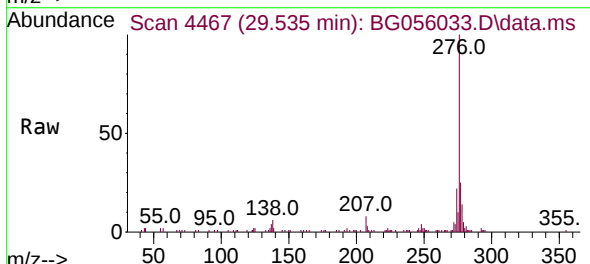
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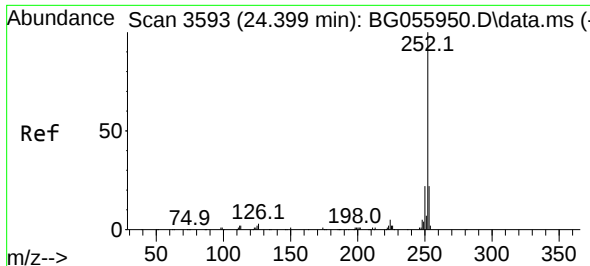
Reviewed By :Christian Giraldo 12/21/2022
 Supervised By :Jagrut Upadhyay 12/21/2022



#87
 Indeno(1,2,3-cd)pyrene
 Concen: 19.233 ng
 RT: 29.535 min Scan# 4467
 Delta R.T. 0.012 min
 Lab File: BG056033.D
 Acq: 20 Dec 2022 17:06

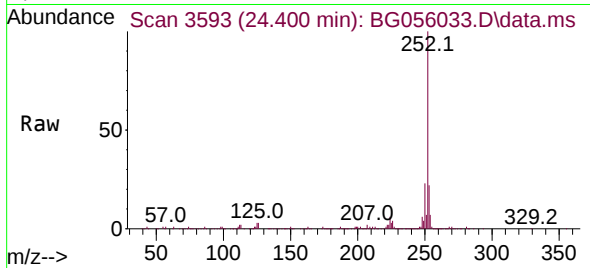
Tgt Ion:276 Resp: 151258
 Ion Ratio Lower Upper
 276 100
 138 0.5 3.0 4.4#
 277 20.5 20.4 30.6





#88
Benzo(b)fluoranthene
Concen: 65.708 ng
RT: 24.400 min Scan# 3593
Delta R.T. 0.012 min
Lab File: BG056033.D
Acq: 20 Dec 2022 17:06

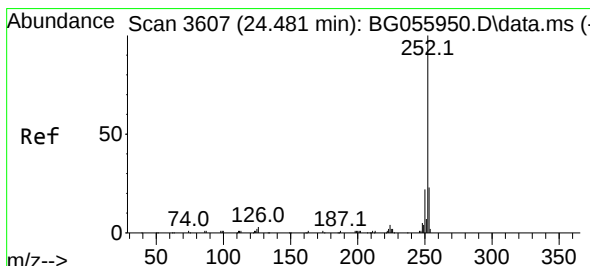
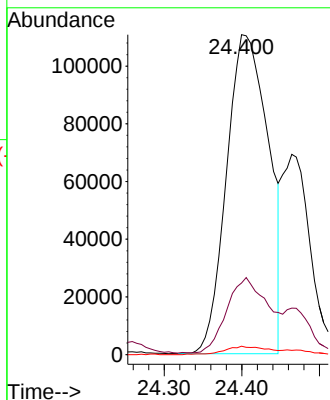
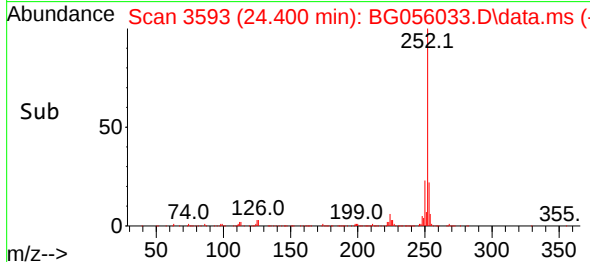
Instrument :
BNA_G
ClientSampleId :
72-11977



Tgt Ion:252 Resp: 415894
Ion Ratio Lower Upper
252 100
253 22.4 17.4 26.0
125 2.6 1.8 2.8

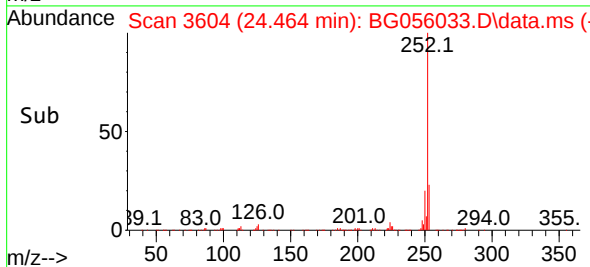
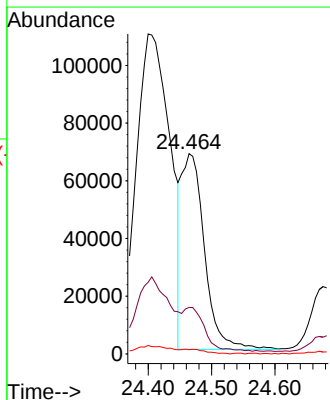
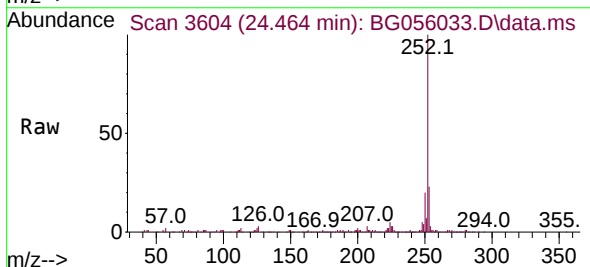
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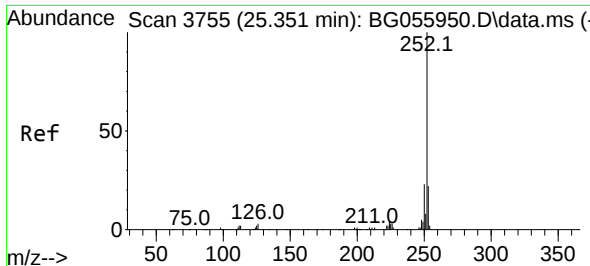
Reviewed By :Christian Giraldo 12/21/2022
Supervised By :Jagrut Upadhyay 12/21/2022



#89
Benzo(k)fluoranthene
Concen: 27.133 ng m
RT: 24.464 min Scan# 3604
Delta R.T. 0.001 min
Lab File: BG056033.D
Acq: 20 Dec 2022 17:06

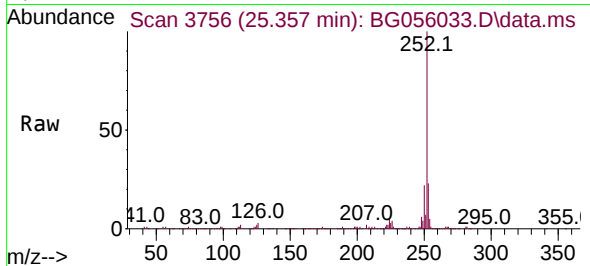
Tgt Ion:252 Resp: 171341
Ion Ratio Lower Upper
252 100
253 23.2 18.2 27.2
125 2.1 2.0 3.0





#90
Benzo(a)pyrene
Concen: 55.891 ng
RT: 25.357 min Scan# 31
Delta R.T. 0.024 min
Lab File: BG056033.D
Acq: 20 Dec 2022 17:06

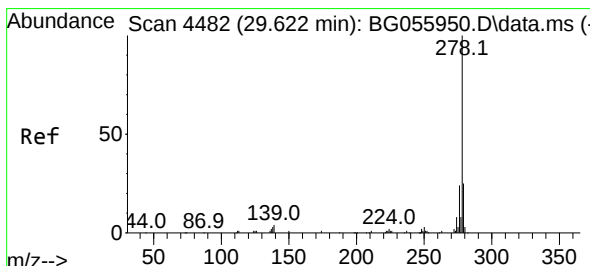
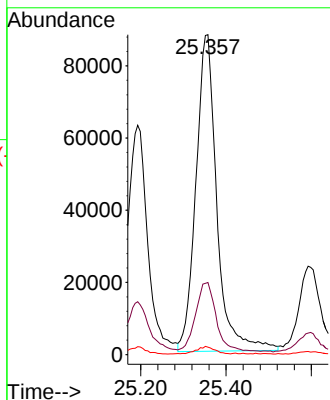
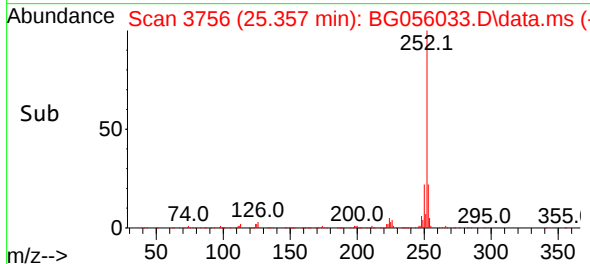
Instrument :
BNA_G
ClientSampleId :
72-11977



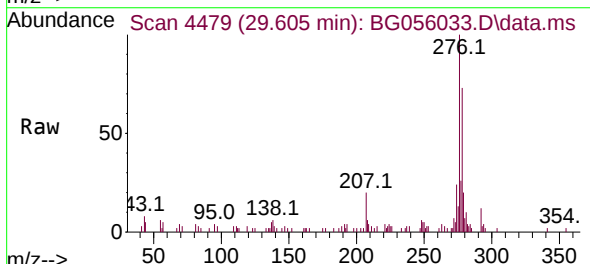
Tgt Ion:252 Resp: 299025
Ion Ratio Lower Upper
252 100
253 22.5 17.7 26.5
125 2.3 1.9 2.9

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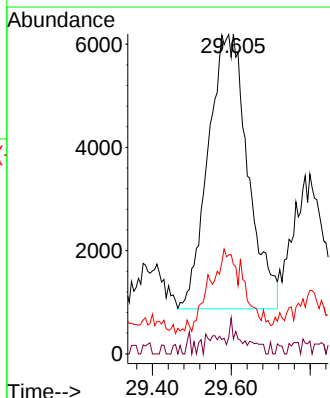
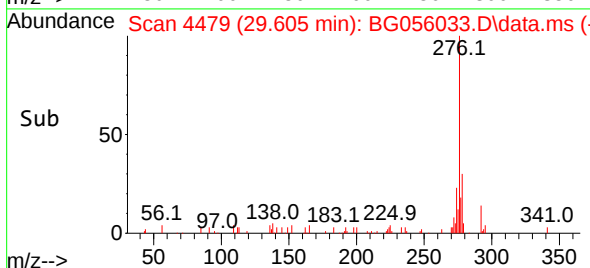
Reviewed By :Christian Giraldo 12/21/2022
Supervised By :Jagrut Upadhyay 12/21/2022

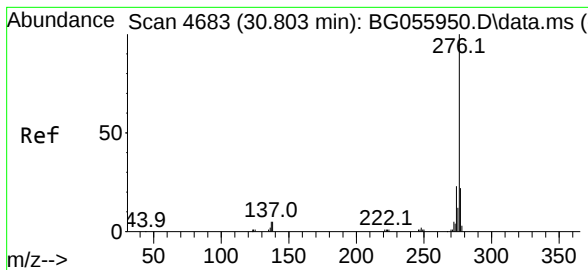


#91
Dibenzo(a,h)anthracene
Concen: 5.645 ng m
RT: 29.605 min Scan# 4479
Delta R.T. 0.012 min
Lab File: BG056033.D
Acq: 20 Dec 2022 17:06



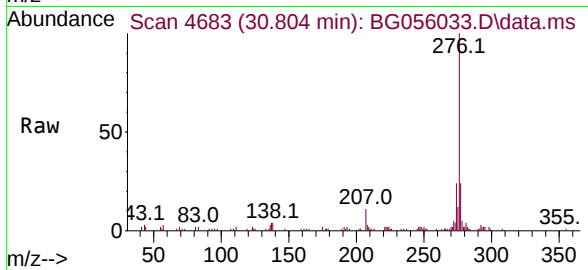
Tgt Ion:278 Resp: 37158
Ion Ratio Lower Upper
278 100
139 4.7 2.9 4.3#
279 28.0 20.0 30.0





#92
 Benzo(g,h,i)perylene
 Concen: 18.213 ng
 RT: 30.804 min Scan# 4683
 Delta R.T. 0.012 min
 Lab File: BG056033.D
 Acq: 20 Dec 2022 17:06

Instrument :
 BNA_G
 ClientSampleId :
 72-11977



Tgt Ion: 276 Resp: 11591
 Ion Ratio Lower Upper
 276 100
 277 24.5 17.8 26.6
 138 4.2 3.8 5.6

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 Supervised By : Jagrut Upadhyay 12/21/2022

