

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG020223\
 Data File : BG056529.D
 Acq On : 3 Feb 2023 1:00
 Operator : CG/JU
 Sample : 01385-01DL 50X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 HR-02-013123DL

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 02/03/2023
 Supervised By : Jagrut Upadhyay 02/03/2023

Quant Time: Feb 03 06:01:14 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG012723.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 01 01:15:52 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.282	152	57204	20.000	ng	0.00
21) Naphthalene-d8	11.114	136	208667	20.000	ng	0.00
39) Acenaphthene-d10	14.898	164	144923	20.000	ng	0.00
64) Phenanthrene-d10	17.636	188	325087	20.000	ng	0.00
76) Chrysene-d12	21.931	240	310117	20.000	ng	0.00
86) Perylene-d12	25.362	264	350158	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.803	112	7342	2.361	ng	0.00
7) Phenol-d6	7.425	99	9482	2.058	ng	0.00
23) Nitrobenzene-d5	9.458	82	4813	1.310	ng	0.00
42) 2,4,6-Tribromophenol	16.385	330	3711	1.926	ng	0.00
45) 2-Fluorobiphenyl	13.523	172	14732	1.409	ng	0.00
79) Terphenyl-d14	20.210	244	24610	1.394	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	11.161	128	58461	5.308	ng	98
37) 2-Methylnaphthalene	12.748	142	34678	3.819	ng	97
38) 1-Methylnaphthalene	12.965	142	33147	3.909	ng	99
52) Acenaphthene	14.963	154	85717	10.813	ng	100
55) Dibenzofuran	15.292	168	126764	8.917	ng	100
58) Fluorene	15.938	166	152365	13.469	ng	97
71) Phenanthrene	17.683	178	1191899	70.052	ng	100
72) Anthracene	17.771	178	358190	20.508	ng	99
73) Carbazole	18.036	167	80144	5.388	ng	99
75) Fluoranthene	19.675	202	1349247	62.831	ng	99
78) Pyrene	20.039	202	1154319	52.335	ng	98
81) Benzo(a)anthracene	21.908	228	583447	26.911	ng	99
83) Chrysene	21.978	228	472652	23.205	ng	97
87) Indeno(1,2,3-cd)pyrene	29.305	276	243444	9.498	ng	# 96
88) Benzo(b)fluoranthene	24.264	252	597536	27.493	ng	98
89) Benzo(k)fluoranthene	24.328	252	219615m	10.008	ng	
90) Benzo(a)pyrene	25.198	252	478145	22.334	ng	99
91) Dibenzo(a,h)anthracene	29.346	278	62796m	2.919	ng	
92) Benzo(g,h,i)perylene	30.551	276	216964	10.451	ng	99

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

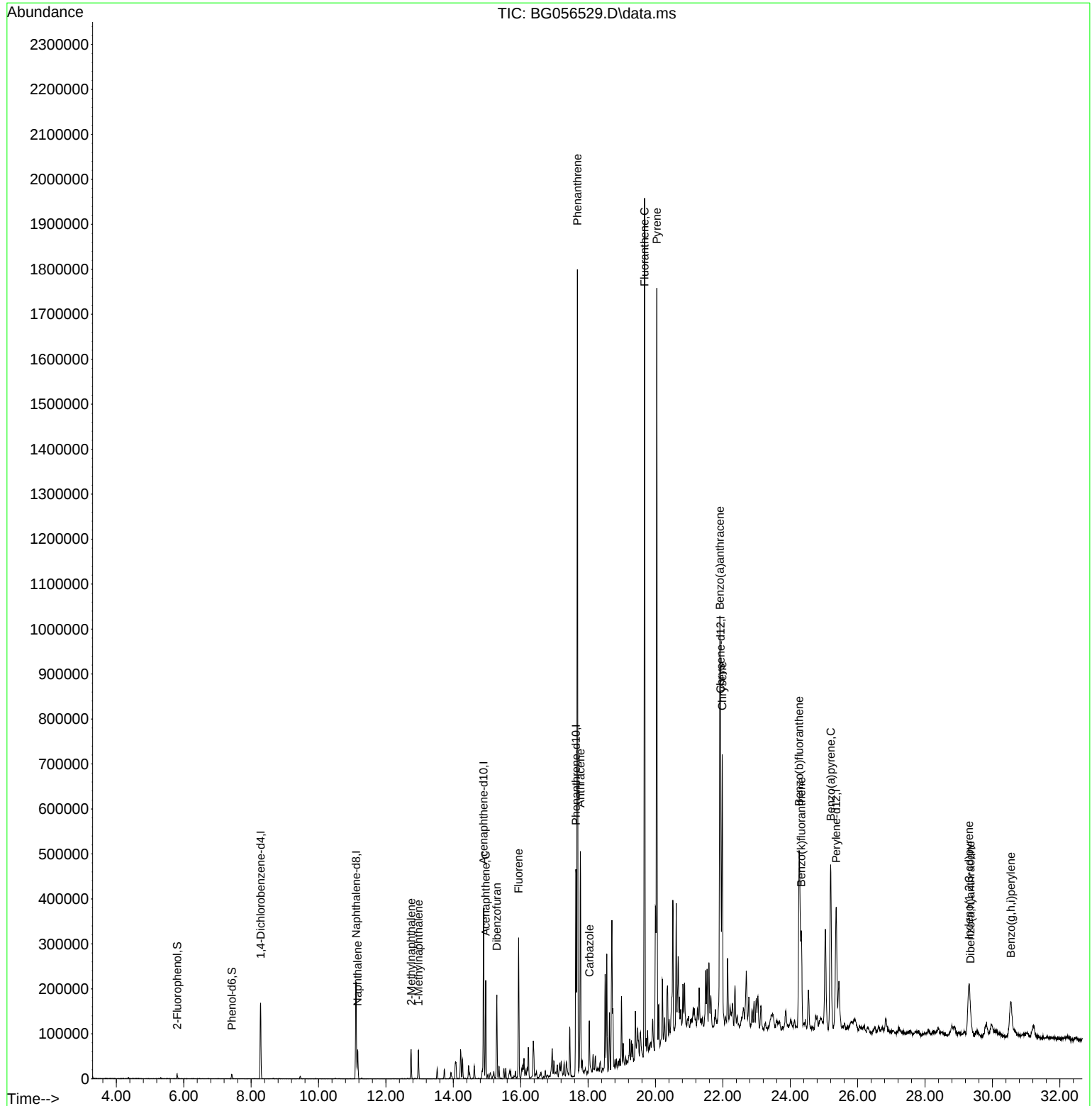
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG020223\
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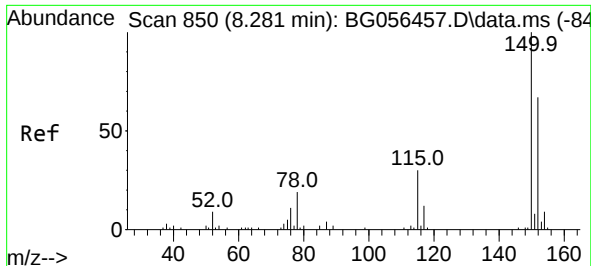
Instrument :
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HR-02-013123DL

Quant Time: Feb 03 06:01:14 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG012723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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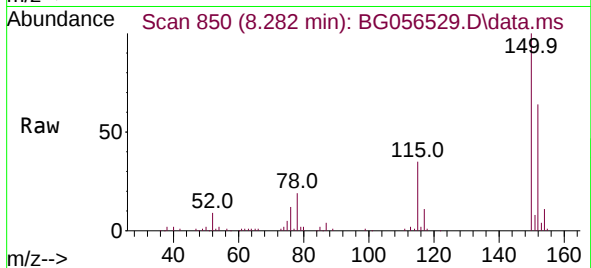
Reviewed By : Christian Giraldo 02/03/2023
Supervised By : Jagrut Upadhyay 02/03/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.282 min Scan# 81
Delta R.T. 0.007 min
Lab File: BG056529.D
Acq: 3 Feb 2023 1:00

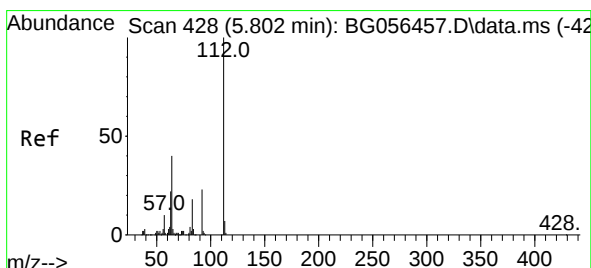
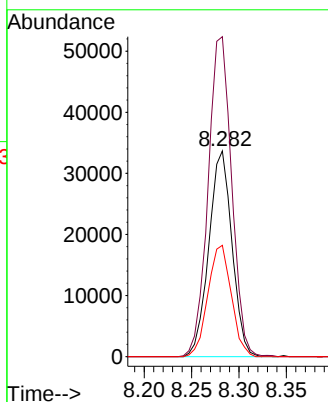
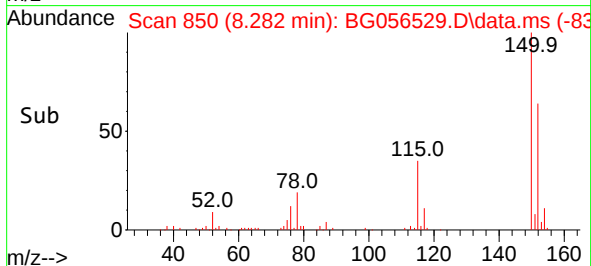
Instrument :
BNA_G
ClientSampleId :
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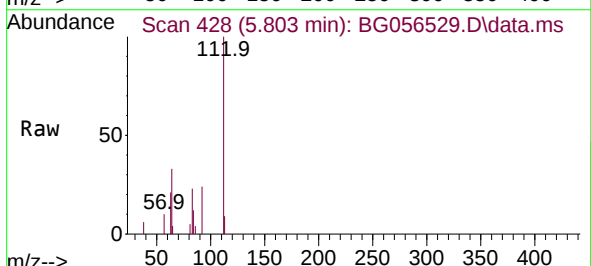
Tgt Ion:152 Resp: 57204
Ion Ratio Lower Upper
152 100
150 155.5 120.2 180.4
115 54.0 36.3 54.5

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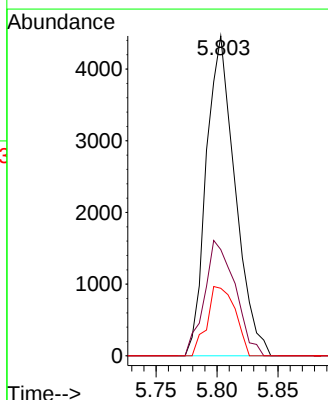
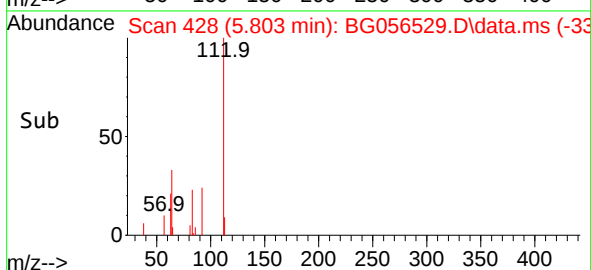
Reviewed By :Christian Giraldo 02/03/2023
Supervised By :Jagrut Upadhyay 02/03/2023

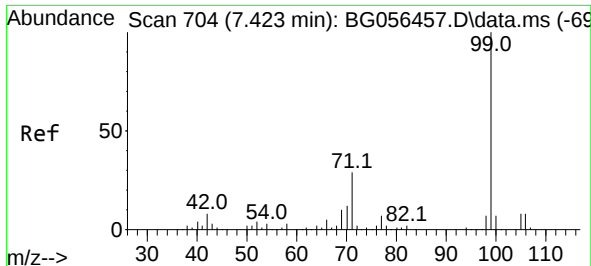


#5
2-Fluorophenol
Concen: 2.361 ng
RT: 5.803 min Scan# 428
Delta R.T. 0.007 min
Lab File: BG056529.D
Acq: 3 Feb 2023 1:00



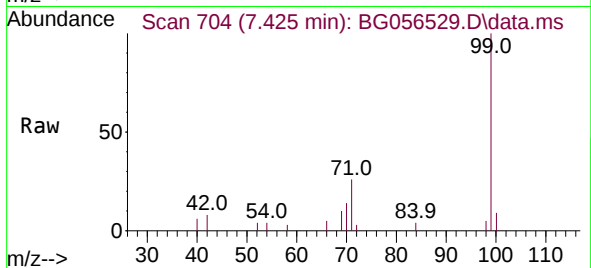
Tgt Ion:112 Resp: 7342
Ion Ratio Lower Upper
112 100
64 33.2 31.9 47.9
63 21.1 17.4 26.0





#7
Phenol-d6
Concen: 2.058 ng
RT: 7.425 min Scan# 704
Delta R.T. 0.007 min
Lab File: BG056529.D
Acq: 3 Feb 2023 1:00

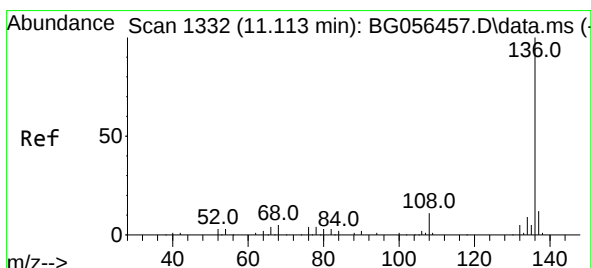
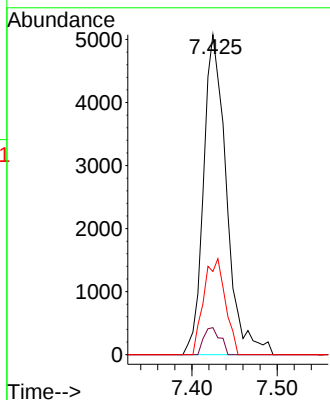
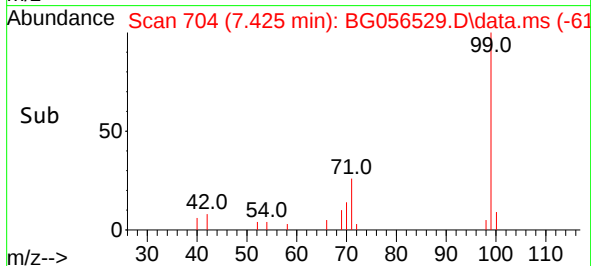
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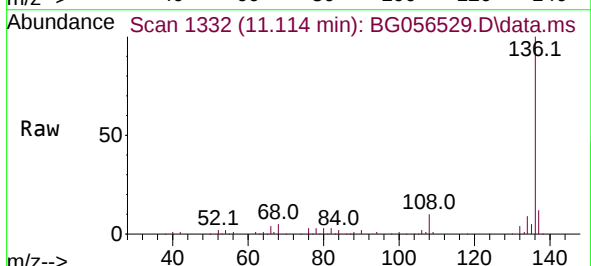
Tgt Ion: 99 Resp: 9482
Ion Ratio Lower Upper
99 100
42 8.4 6.6 10.0
71 26.0 23.4 35.0

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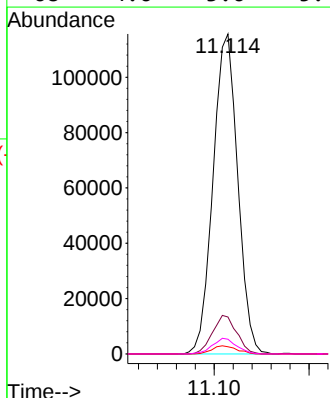
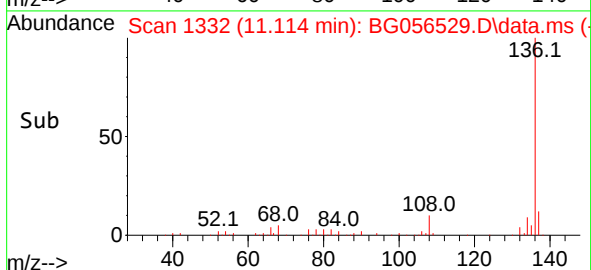
Reviewed By :Christian Giraldo 02/03/2023
Supervised By :Jagrut Upadhyay 02/03/2023

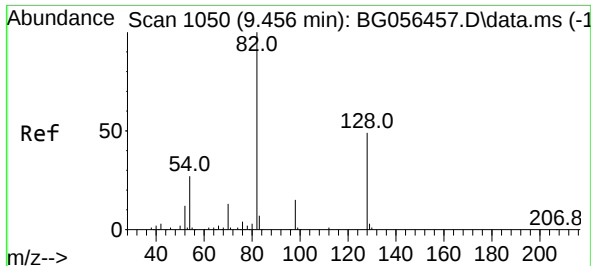


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.114 min Scan# 1332
Delta R.T. 0.007 min
Lab File: BG056529.D
Acq: 3 Feb 2023 1:00



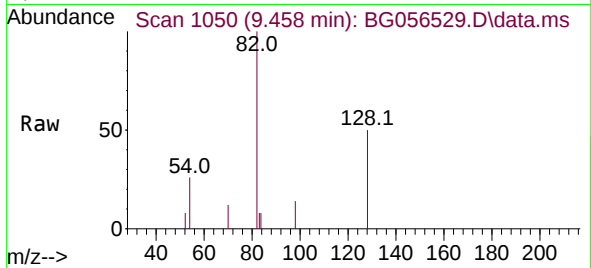
Tgt Ion:136 Resp: 208667
Ion Ratio Lower Upper
136 100
137 11.5 9.4 14.0
54 2.2 2.2 3.4
68 4.6 3.6 5.4





#23
Nitrobenzene-d5
Concen: 1.310 ng
RT: 9.458 min Scan# 1050
Delta R.T. 0.001 min
Lab File: BG056529.D
Acq: 3 Feb 2023 1:00

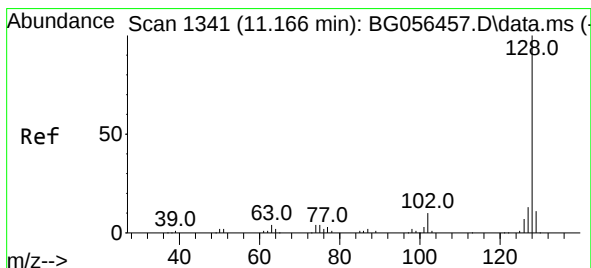
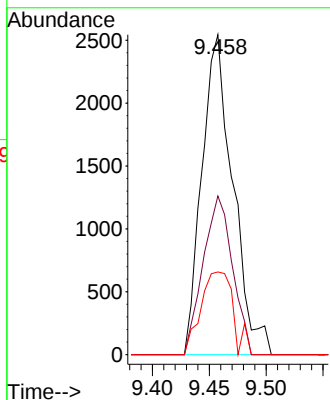
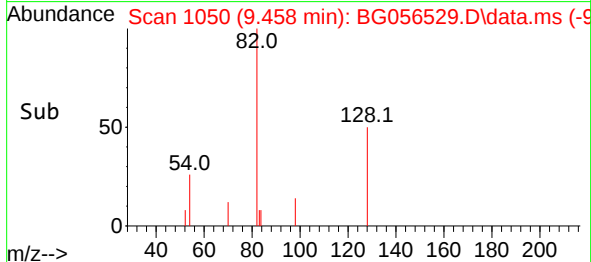
Instrument :
BNA_G
ClientSampleId :
HR-02-013123DL



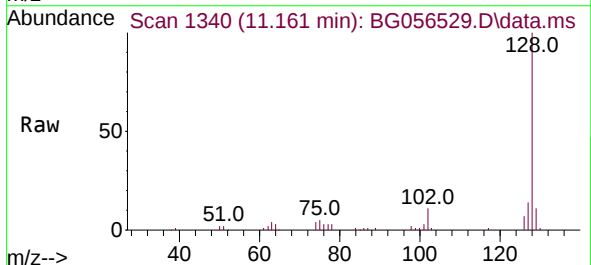
Tgt Ion: 82 Resp: 4813
Ion Ratio Lower Upper
82 100
128 49.6 39.4 59.2
54 25.9 21.4 32.2

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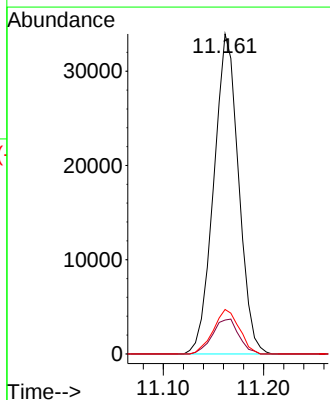
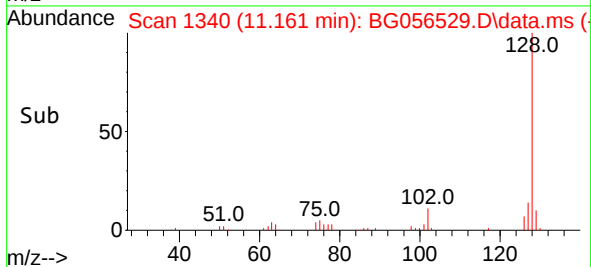
Reviewed By :Christian Giraldo 02/03/2023
Supervised By :Jagrut Upadhyay 02/03/2023

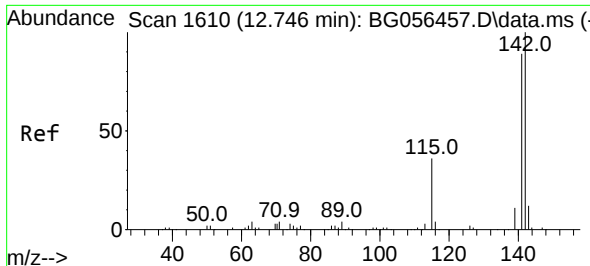


#31
Naphthalene
Concen: 5.308 ng
RT: 11.161 min Scan# 1340
Delta R.T. 0.001 min
Lab File: BG056529.D
Acq: 3 Feb 2023 1:00



Tgt Ion:128 Resp: 58461
Ion Ratio Lower Upper
128 100
129 10.6 8.7 13.1
127 13.9 10.4 15.6





#37

2-Methylnaphthalene

Concen: 3.819 ng

RT: 12.748 min Scan# 1610

Delta R.T. 0.001 min

Lab File: BG056529.D

Acq: 3 Feb 2023 1:00

Instrument :

BNA_G

ClientSampleId :

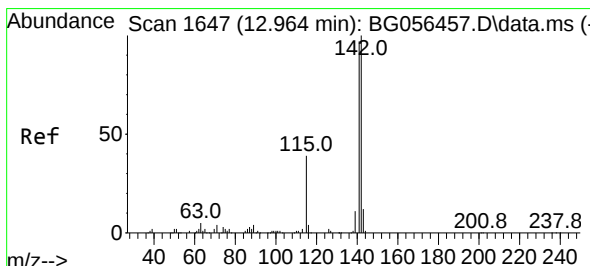
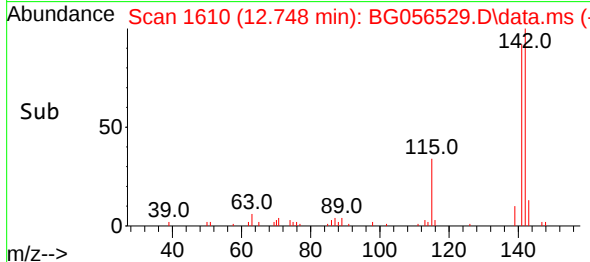
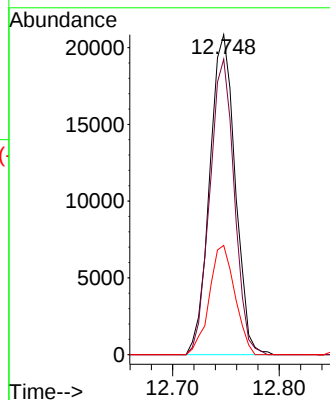
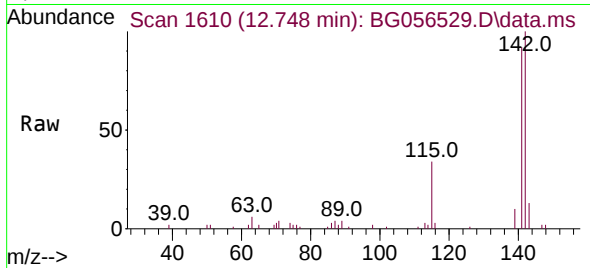
HR-02-013123DL

Tgt Ion:142	Resp:	34678
Ion Ratio	Lower	Upper
142	100	
141	92.3	71.4 107.0
115	34.1	28.4 42.6

Manual Integrations

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Reviewed By :Christian Giraldo 02/03/2023
Supervised By :Jagrut Upadhyay 02/03/2023



#38

1-Methylnaphthalene

Concen: 3.909 ng

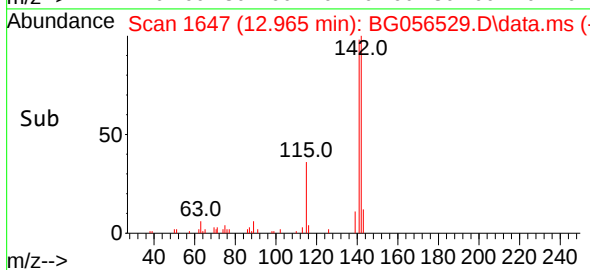
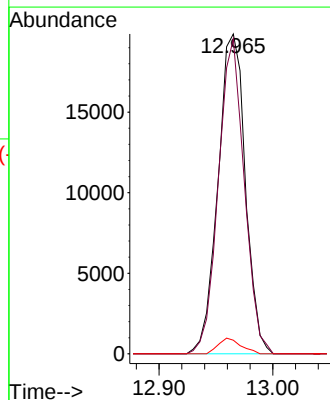
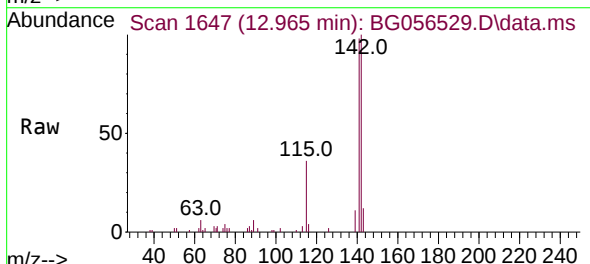
RT: 12.965 min Scan# 1647

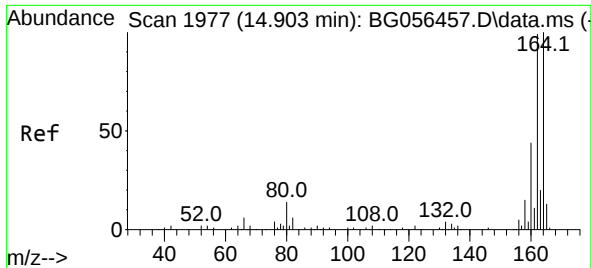
Delta R.T. 0.001 min

Lab File: BG056529.D

Acq: 3 Feb 2023 1:00

Tgt Ion:142	Resp:	33147
Ion Ratio	Lower	Upper
142	100	
141	98.5	77.7 116.5
116	4.3	3.4 5.2





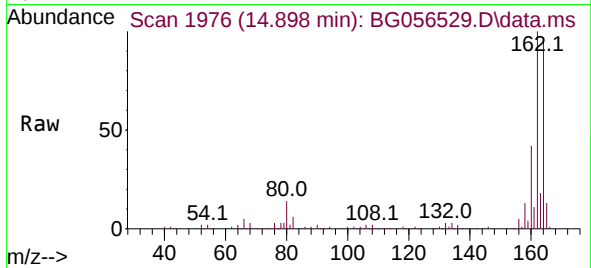
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.898 min Scan# 1977
Delta R.T. 0.001 min
Lab File: BG056529.D
Acq: 3 Feb 2023 1:00

Instrument :

BNA_G

ClientSampleId :

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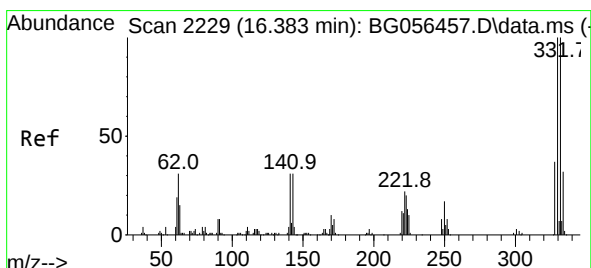
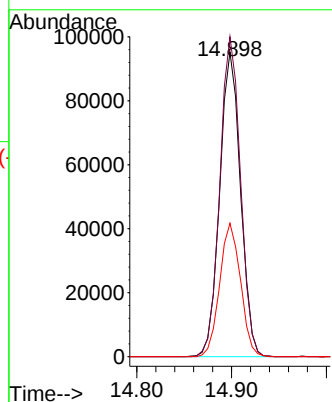
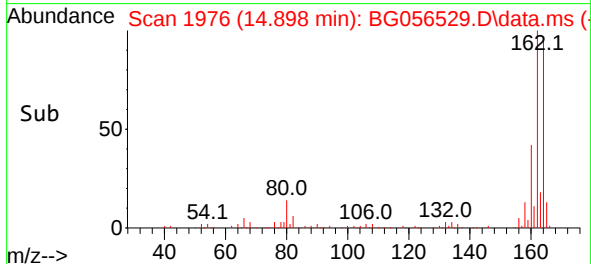


Tgt Ion:164 Resp: 144923
Ion Ratio Lower Upper
164 100
162 105.1 79.6 119.4
160 43.8 34.9 52.3

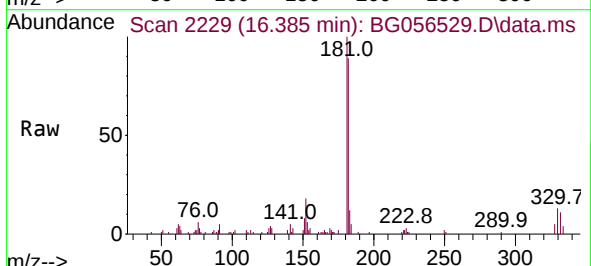
Manual Integrations

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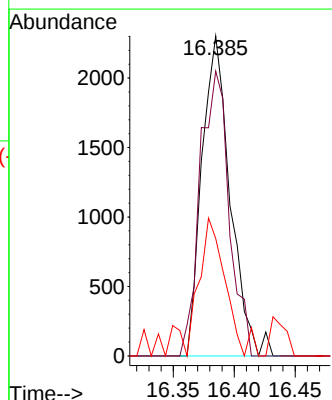
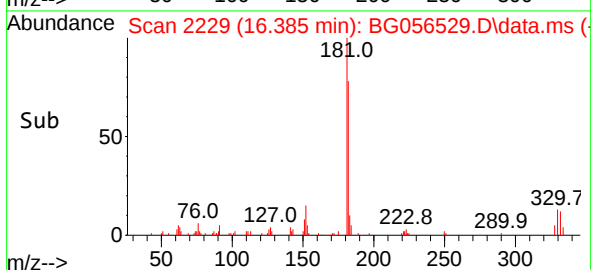
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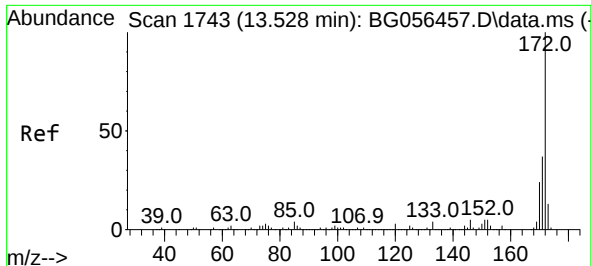


#42
2,4,6-Tribromophenol
Concen: 1.926 ng
RT: 16.385 min Scan# 2229
Delta R.T. 0.007 min
Lab File: BG056529.D
Acq: 3 Feb 2023 1:00



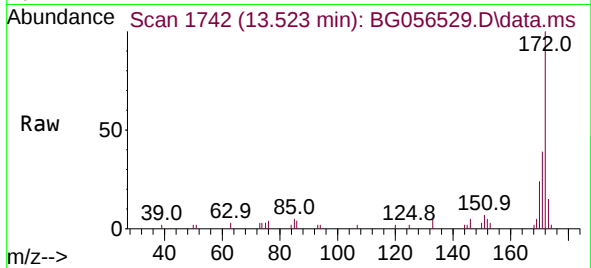
Tgt Ion:330 Resp: 3711
Ion Ratio Lower Upper
330 100
332 91.4 79.0 118.6
141 43.6 24.2 36.4#





#45
2-Fluorobiphenyl
Concen: 1.409 ng
RT: 13.523 min Scan# 1742
Delta R.T. 0.001 min
Lab File: BG056529.D
Acq: 3 Feb 2023 1:00

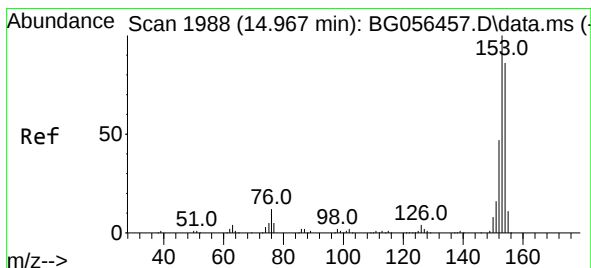
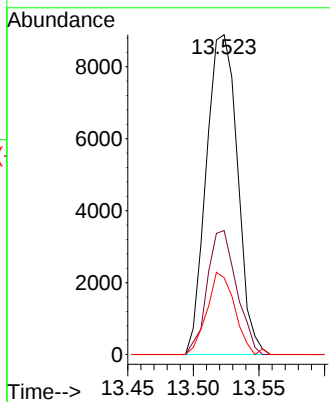
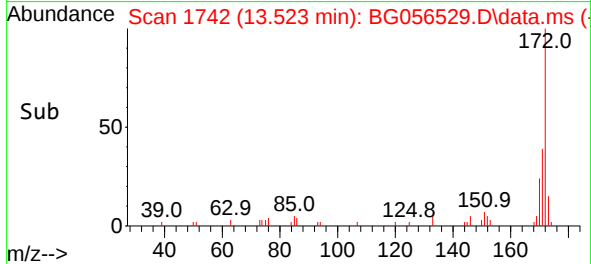
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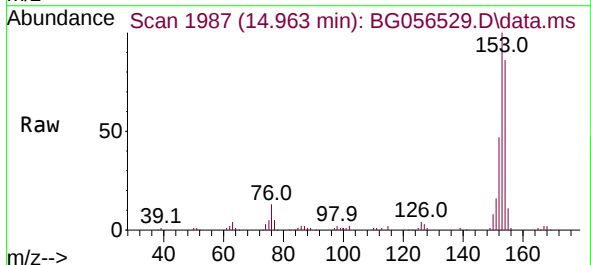
Tgt Ion:172 Resp: 14732
Ion Ratio Lower Upper
172 100
171 38.8 29.5 44.3
170 24.0 19.2 28.8

Manual Integrations
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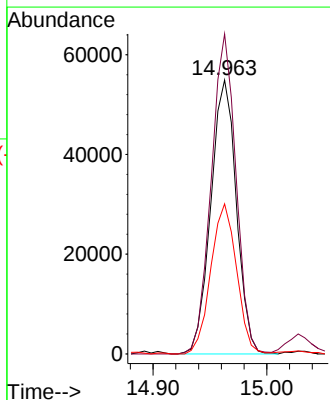
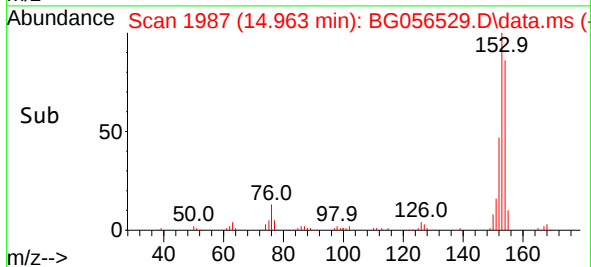
Reviewed By :Christian Giraldo 02/03/2023
Supervised By :Jagrut Upadhyay 02/03/2023

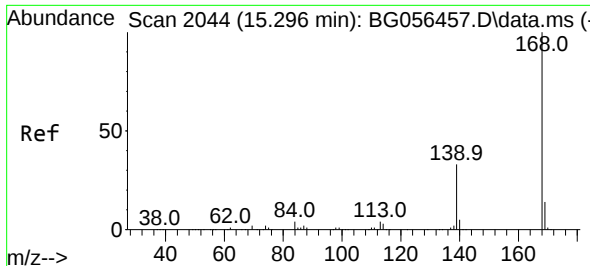


#52
Acenaphthene
Concen: 10.813 ng
RT: 14.963 min Scan# 1987
Delta R.T. 0.001 min
Lab File: BG056529.D
Acq: 3 Feb 2023 1:00



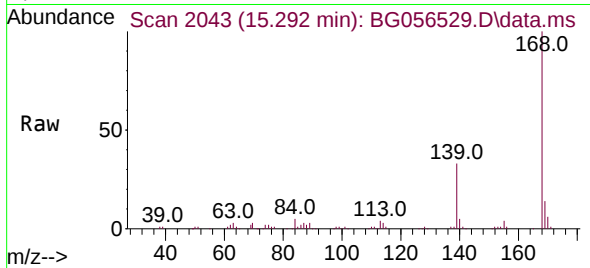
Tgt Ion:154 Resp: 85717
Ion Ratio Lower Upper
154 100
153 116.8 93.4 140.0
152 54.8 43.4 65.2





#55
Dibenzofuran
Concen: 8.917 ng
RT: 15.292 min Scan# 2044
Delta R.T. 0.001 min
Lab File: BG056529.D
Acq: 3 Feb 2023 1:00

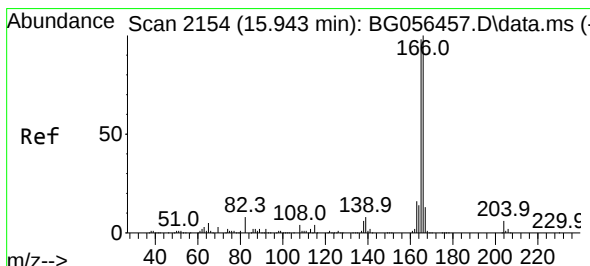
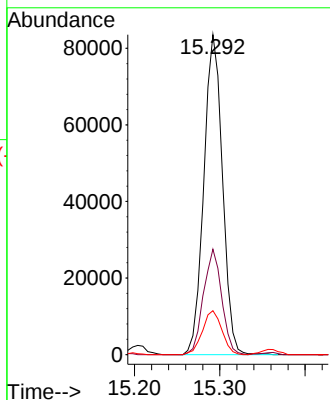
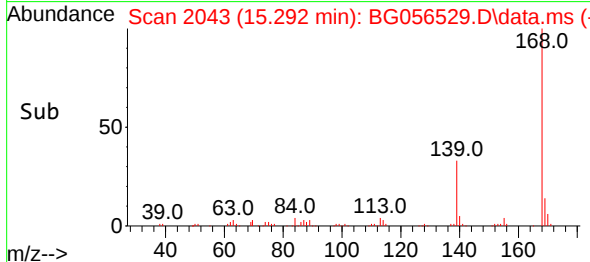
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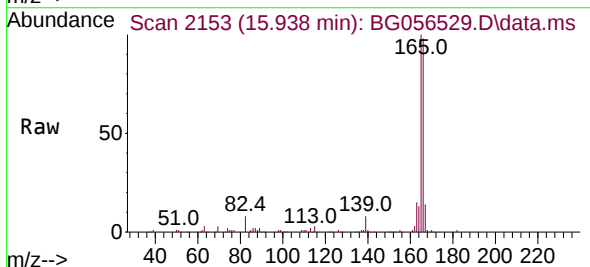
Tgt Ion:168 Resp: 126764
Ion Ratio Lower Upper
168 100
139 32.9 26.2 39.2
169 13.7 11.0 16.6

Manual Integrations
APPROVED

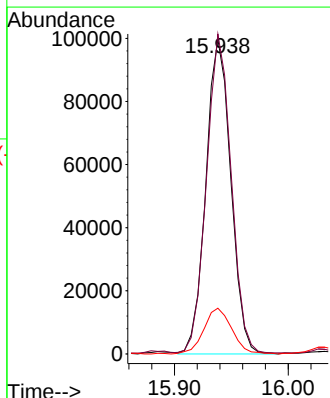
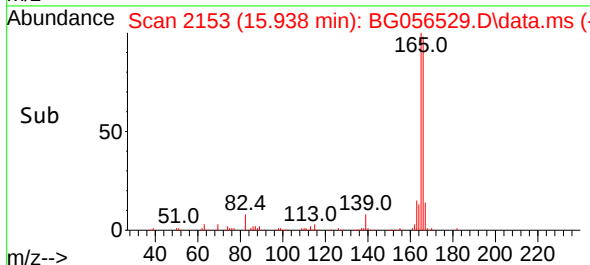
Reviewed By :Christian Giraldo 02/03/2023
Supervised By :Jagrut Upadhyay 02/03/2023

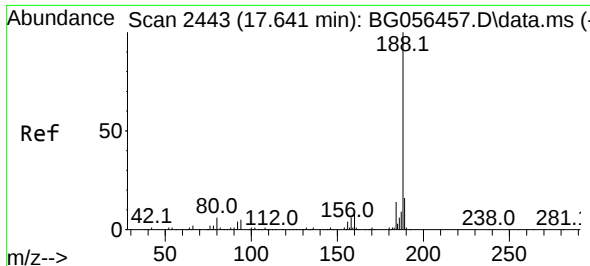


#58
Fluorene
Concen: 13.469 ng
RT: 15.938 min Scan# 2153
Delta R.T. 0.001 min
Lab File: BG056529.D
Acq: 3 Feb 2023 1:00



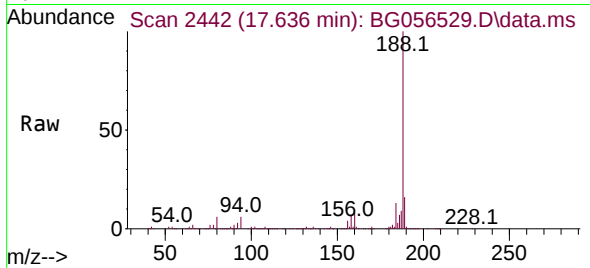
Tgt Ion:166 Resp: 152365
Ion Ratio Lower Upper
166 100
165 101.7 78.8 118.2
167 14.5 10.6 15.8





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.636 min Scan# 2443
Delta R.T. 0.001 min
Lab File: BG056529.D
Acq: 3 Feb 2023 1:00

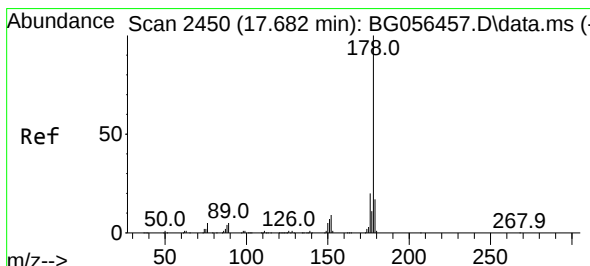
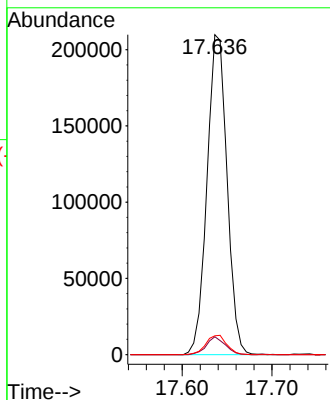
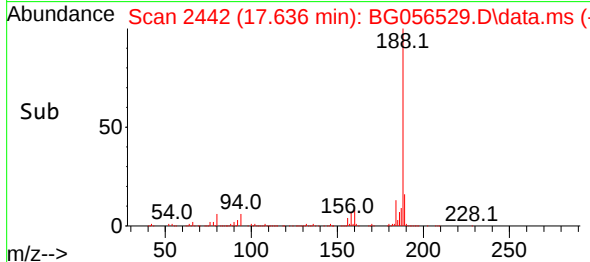
Instrument :
BNA_G
ClientSampleId :
HR-02-013123DL



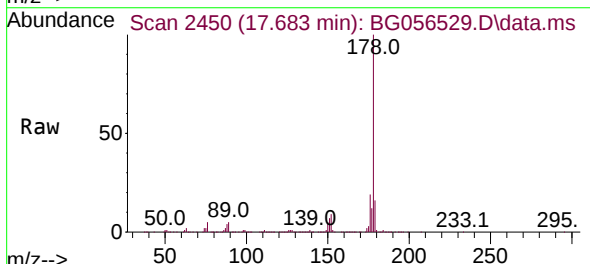
Tgt Ion:188 Resp: 32508
Ion Ratio Lower Upper
188 100
94 5.6 4.1 6.1
80 5.9 5.0 7.4

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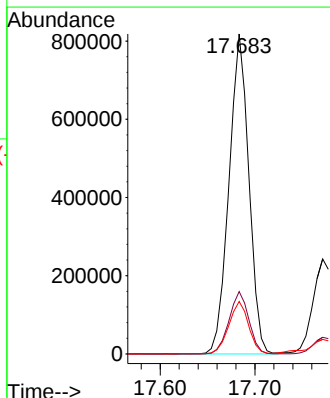
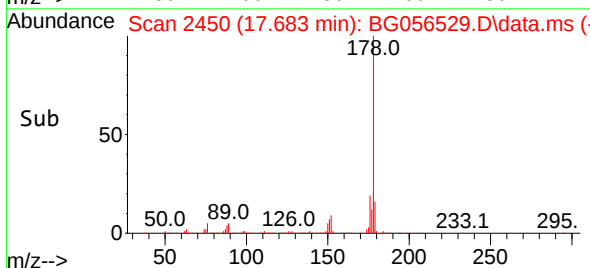
Reviewed By :Christian Giraldo 02/03/2023
Supervised By :Jagrut Upadhyay 02/03/2023

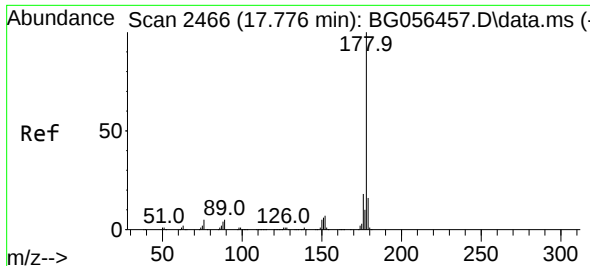


#71
Phenanthrene
Concen: 70.052 ng
RT: 17.683 min Scan# 2450
Delta R.T. 0.007 min
Lab File: BG056529.D
Acq: 3 Feb 2023 1:00



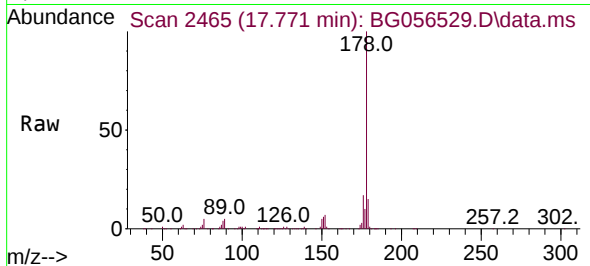
Tgt Ion:178 Resp: 1191899
Ion Ratio Lower Upper
178 100
176 19.5 15.6 23.4
179 16.4 13.3 19.9





#72
 Anthracene
 Concen: 20.508 ng
 RT: 17.771 min Scan# 2466
 Delta R.T. 0.001 min
 Lab File: BG056529.D
 Acq: 3 Feb 2023 1:00

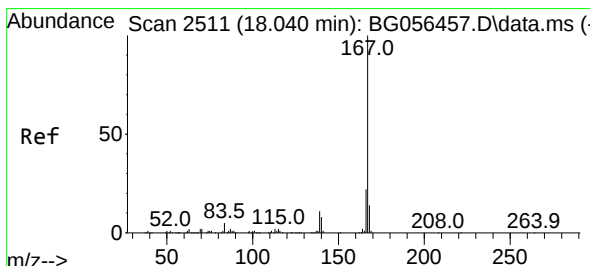
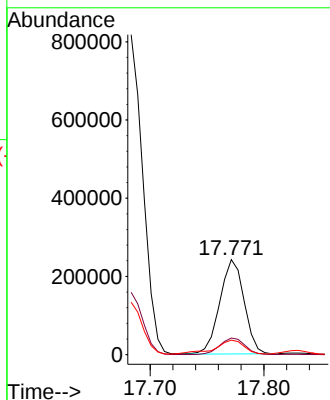
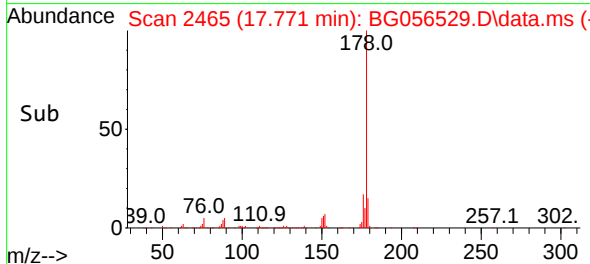
Instrument :
 BNA_G
 ClientSampleId :
 HR-02-013123DL



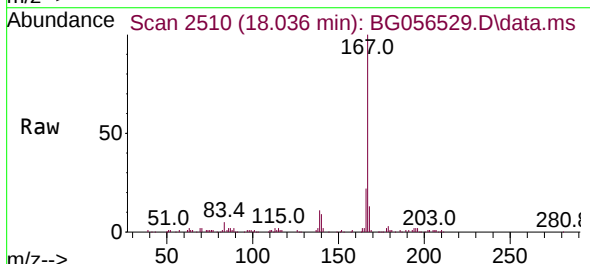
Tgt Ion:178 Resp: 358190
 Ion Ratio Lower Upper
 178 100
 176 17.5 14.5 21.7
 179 15.3 12.5 18.7

Manual Integrations
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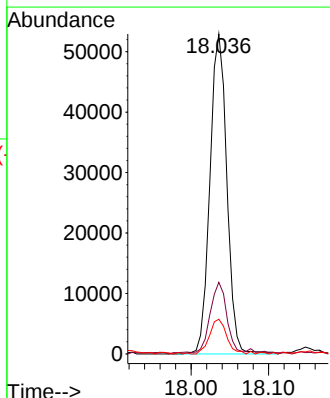
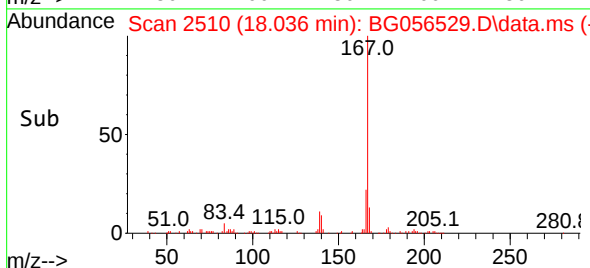
Reviewed By :Christian Giraldo 02/03/2023
 Supervised By :Jagrut Upadhyay 02/03/2023

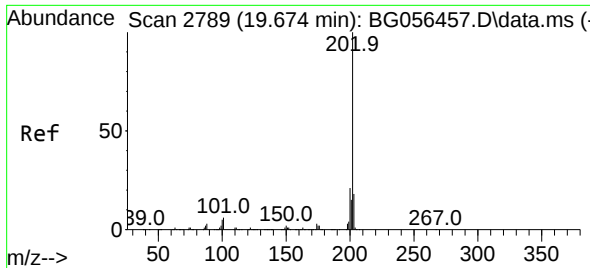


#73
 Carbazole
 Concen: 5.388 ng
 RT: 18.036 min Scan# 2510
 Delta R.T. 0.001 min
 Lab File: BG056529.D
 Acq: 3 Feb 2023 1:00



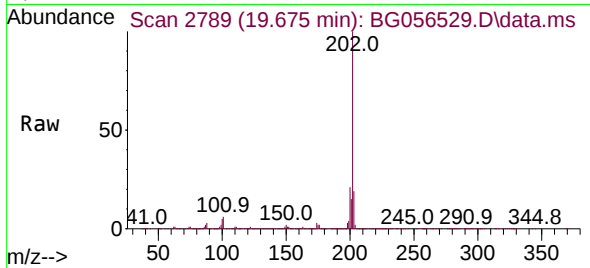
Tgt Ion:167 Resp: 80144
 Ion Ratio Lower Upper
 167 100
 166 22.4 17.8 26.6
 139 10.8 8.9 13.3





#75
Fluoranthene
Concen: 62.831 ng
RT: 19.675 min Scan# 21
Delta R.T. 0.007 min
Lab File: BG056529.D
Acq: 3 Feb 2023 1:00

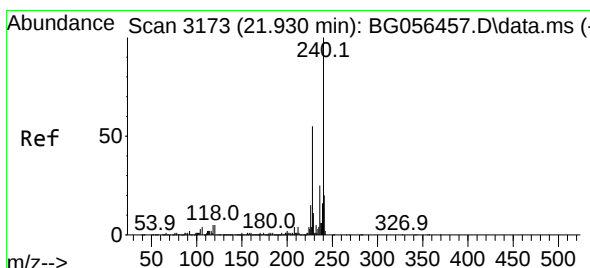
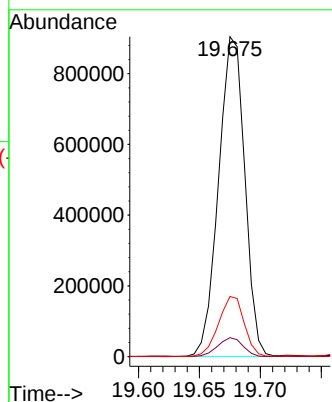
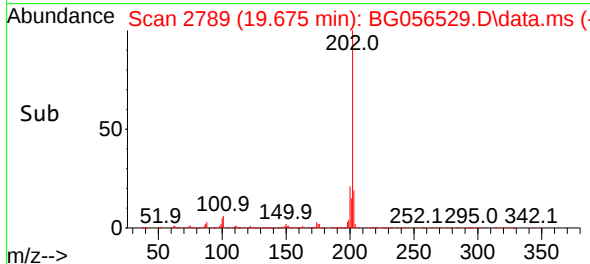
Instrument :
BNA_G
ClientSampleId :
HR-02-013123DL



Tgt Ion:202 Resp: 134924
Ion Ratio Lower Upper
202 100
101 5.9 0.0 25.6
203 18.8 0.0 38.1

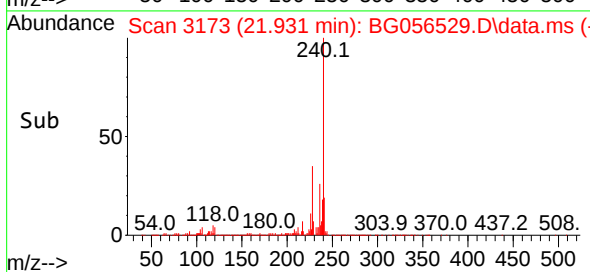
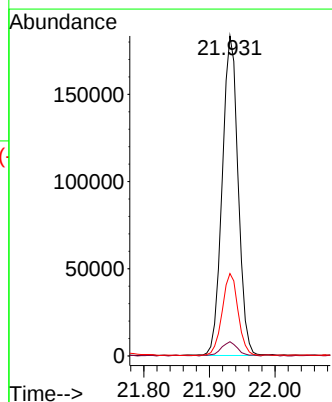
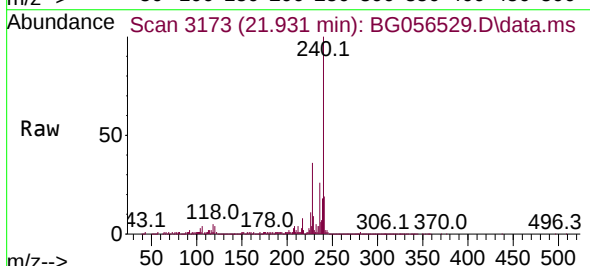
Manual Integrations
APPROVED

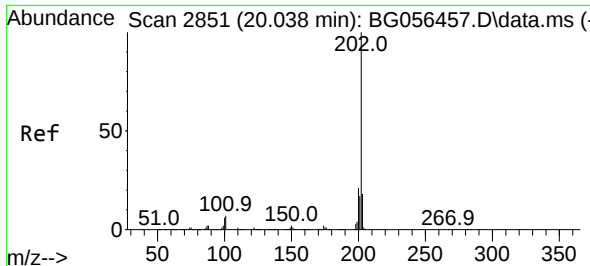
Reviewed By :Christian Giraldo 02/03/2023
Supervised By :Jagrut Upadhyay 02/03/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.931 min Scan# 3173
Delta R.T. 0.007 min
Lab File: BG056529.D
Acq: 3 Feb 2023 1:00

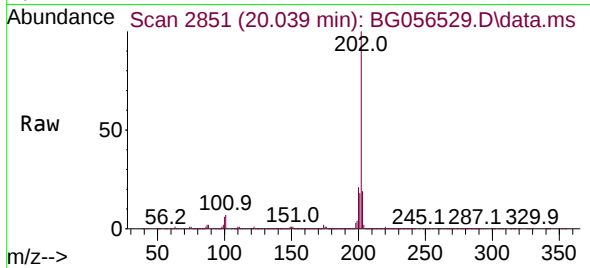
Tgt Ion:240 Resp: 310117
Ion Ratio Lower Upper
240 100
120 4.4 3.8 5.8
236 25.7 20.2 30.2





#78
 Pyrene
 Concen: 52.335 ng
 RT: 20.039 min Scan# 2851
 Delta R.T. 0.007 min
 Lab File: BG056529.D
 Acq: 3 Feb 2023 1:00

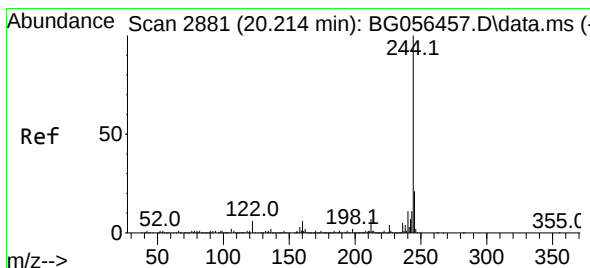
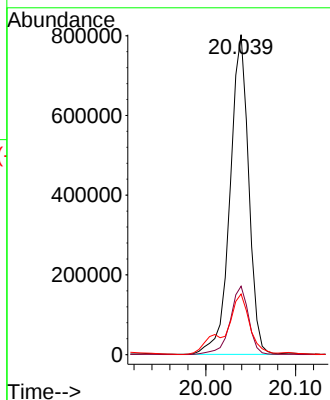
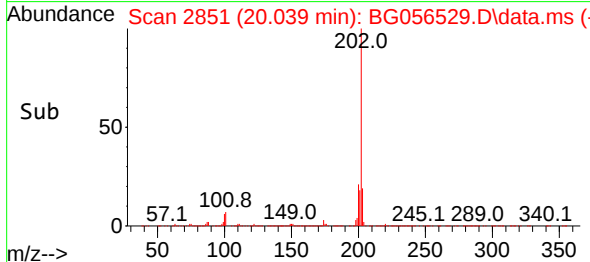
Instrument :
 BNA_G
 ClientSampleId :
 HR-02-013123DL



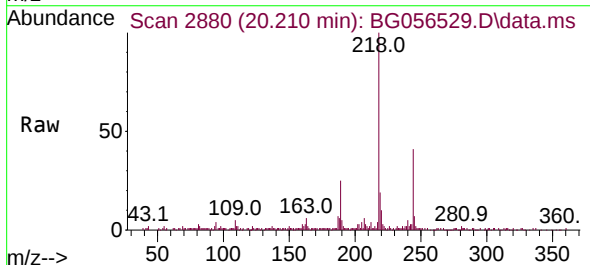
Tgt Ion:202 Resp: 1154319
 Ion Ratio Lower Upper
 202 100
 200 21.4 16.7 25.1
 203 18.9 14.4 21.6

Manual Integrations
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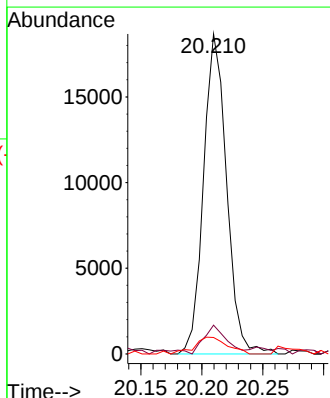
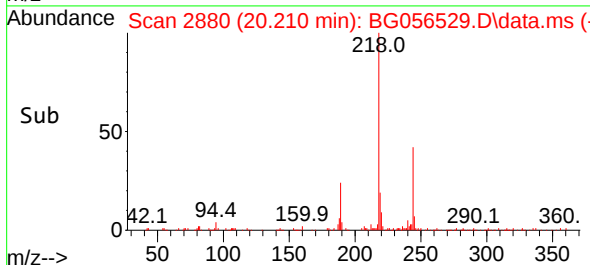
Reviewed By :Christian Giraldo 02/03/2023
 Supervised By :Jagrut Upadhyay 02/03/2023

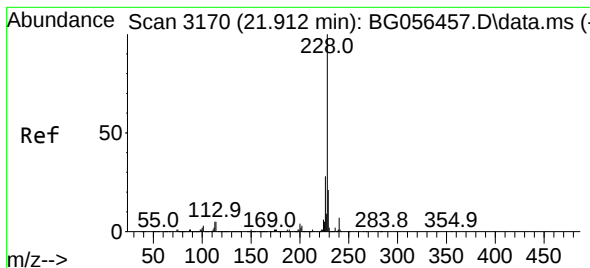


#79
 Terphenyl-d14
 Concen: 1.394 ng
 RT: 20.210 min Scan# 2880
 Delta R.T. 0.001 min
 Lab File: BG056529.D
 Acq: 3 Feb 2023 1:00



Tgt Ion:244 Resp: 24610
 Ion Ratio Lower Upper
 244 100
 212 9.0 5.5 8.3#
 122 5.1 4.4 6.6





#81

Benzo(a)anthracene

Concen: 26.911 ng

RT: 21.908 min Scan# 3169

Delta R.T. 0.007 min

Lab File: BG056529.D

Acq: 3 Feb 2023 1:00

Instrument :

BNA_G

ClientSampleId :

HR-02-013123DL

Tgt Ion:228 Resp: 58344

Ion Ratio Lower Upper

228 100

226 28.2 22.4 33.6

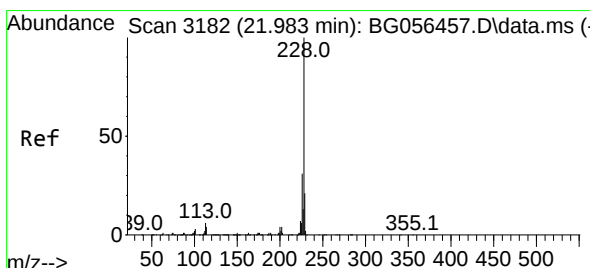
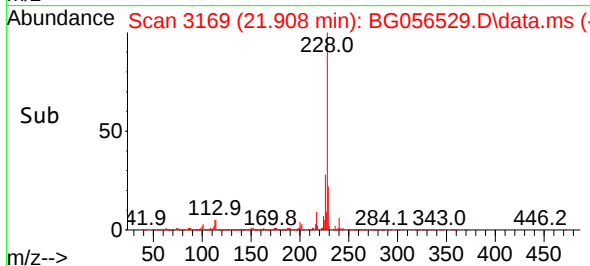
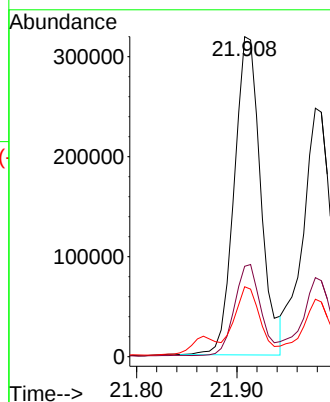
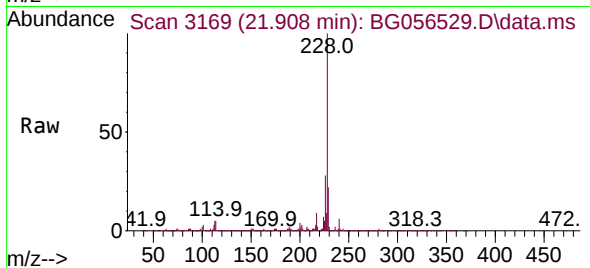
229 21.9 16.5 24.7

Manual Integrations

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Reviewed By :Christian Giraldo 02/03/2023

Supervised By :Jagrut Upadhyay 02/03/2023



#83

Chrysene

Concen: 23.205 ng

RT: 21.978 min Scan# 3181

Delta R.T. 0.001 min

Lab File: BG056529.D

Acq: 3 Feb 2023 1:00

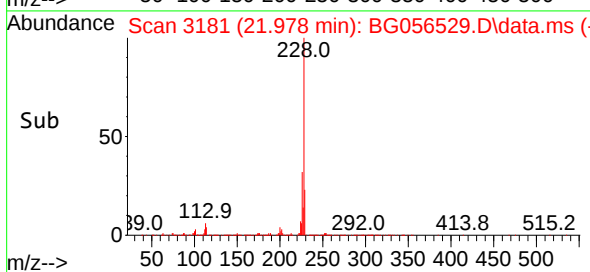
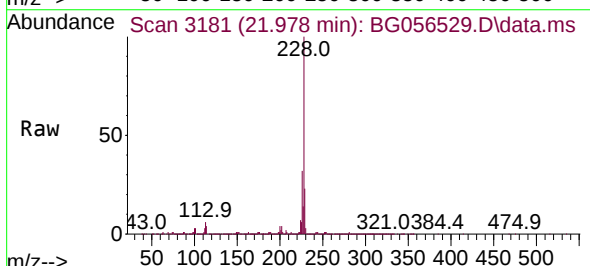
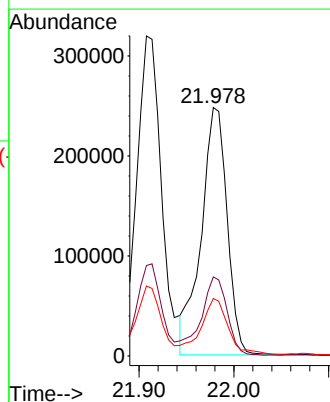
Tgt Ion:228 Resp: 472652

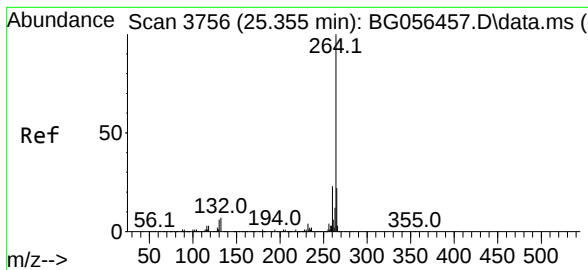
Ion Ratio Lower Upper

228 100

226 31.8 25.0 37.4

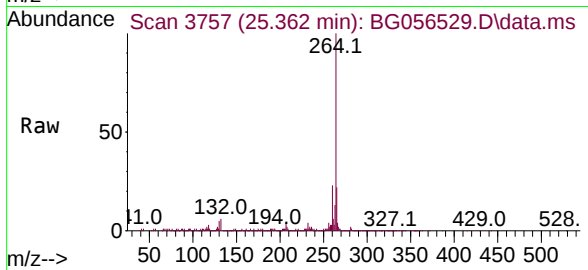
229 23.1 16.4 24.6





#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 25.362 min Scan# 3757
 Delta R.T. 0.019 min
 Lab File: BG056529.D
 Acq: 3 Feb 2023 1:00

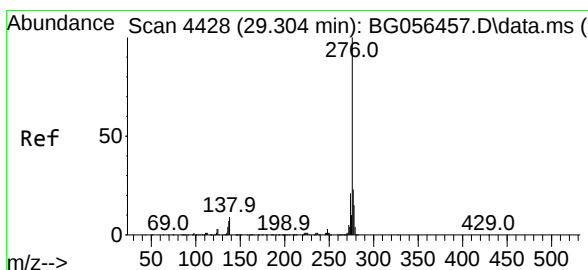
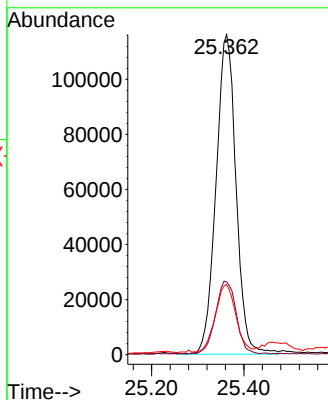
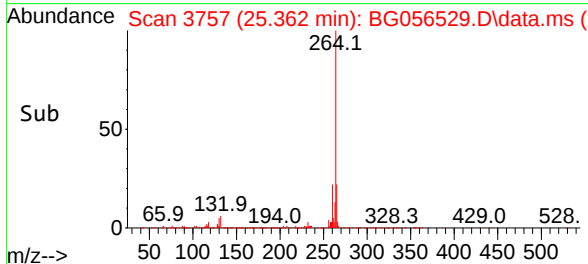
Instrument :
 BNA_G
 ClientSampleId :
 HR-02-013123DL



Tgt Ion:264 Resp: 350158
 Ion Ratio Lower Upper
 264 100
 260 22.7 18.2 27.4
 265 21.9 18.1 27.1

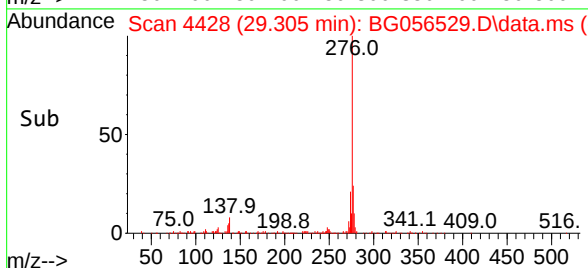
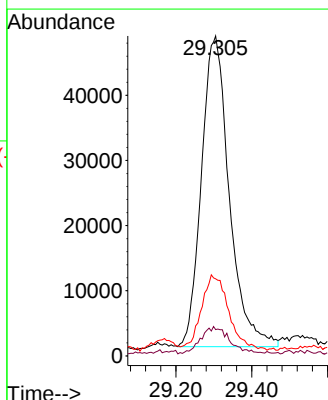
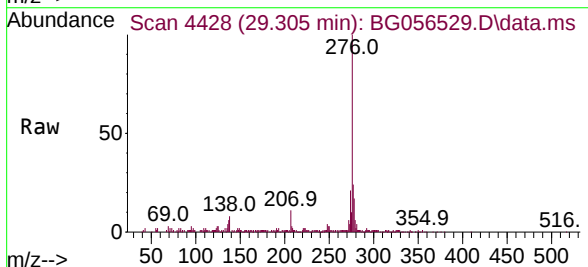
Manual Integrations
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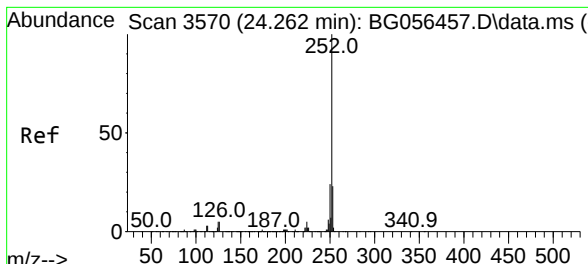
Reviewed By :Christian Giraldo 02/03/2023
 Supervised By :Jagrut Upadhyay 02/03/2023



#87
 Indeno(1,2,3-cd)pyrene
 Concen: 9.498 ng
 RT: 29.305 min Scan# 4428
 Delta R.T. 0.025 min
 Lab File: BG056529.D
 Acq: 3 Feb 2023 1:00

Tgt Ion:276 Resp: 243444
 Ion Ratio Lower Upper
 276 100
 138 8.7 9.4 14.2#
 277 24.2 20.3 30.5





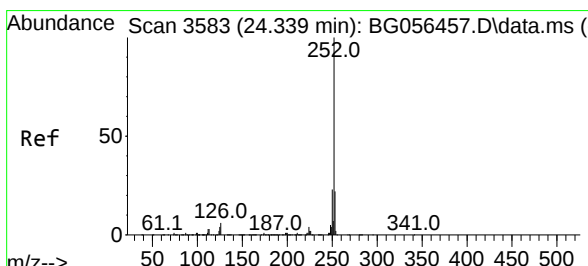
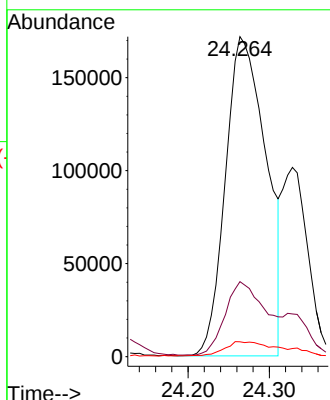
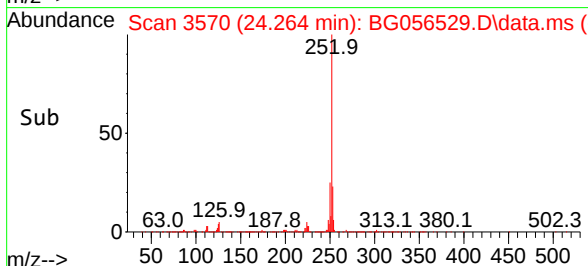
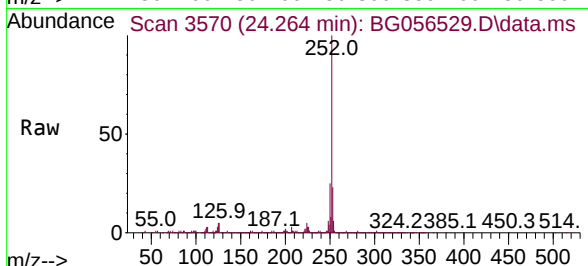
#88
Benzo(b)fluoranthene
Concen: 27.493 ng
RT: 24.264 min Scan# 3570
Delta R.T. 0.013 min
Lab File: BG056529.D
Acq: 3 Feb 2023 1:00

Instrument :
BNA_G
ClientSampleId :
HR-02-013123DL

Tgt Ion:	252	Resp:	597536
Ion Ratio	Lower	Upper	
252	100		
253	23.4	18.1	27.1
125	4.6	3.9	5.9

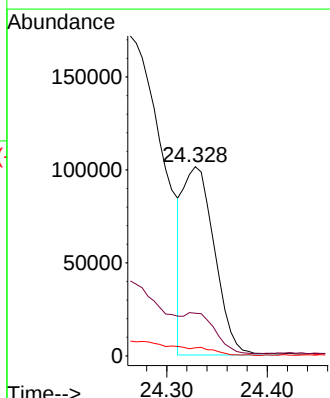
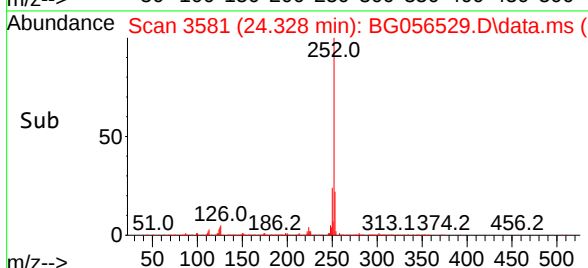
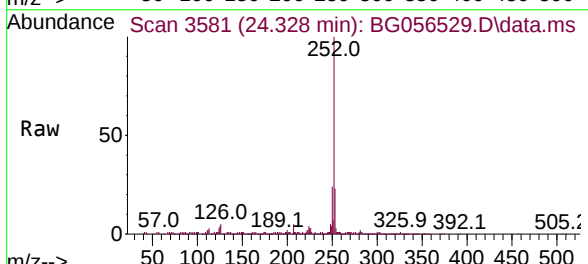
Manual Integrations
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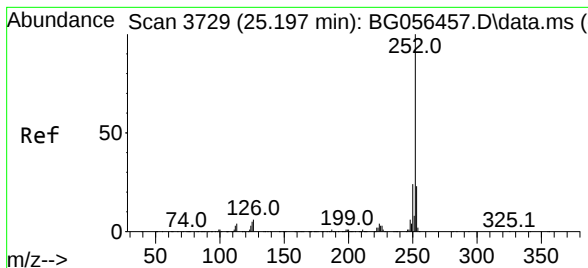
Reviewed By :Christian Giraldo 02/03/2023
Supervised By :Jagrut Upadhyay 02/03/2023



#89
Benzo(k)fluoranthene
Concen: 10.008 ng m
RT: 24.328 min Scan# 3581
Delta R.T. 0.007 min
Lab File: BG056529.D
Acq: 3 Feb 2023 1:00

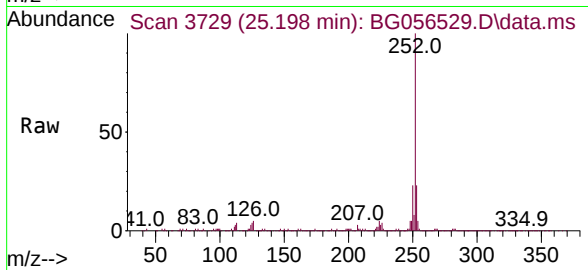
Tgt Ion:	252	Resp:	219615
Ion Ratio	Lower	Upper	
252	100		
253	22.6	17.5	26.3
125	4.3	3.4	5.0





#90
Benzo(a)pyrene
Concen: 22.334 ng
RT: 25.198 min Scan# 31
Delta R.T. 0.013 min
Lab File: BG056529.D
Acq: 3 Feb 2023 1:00

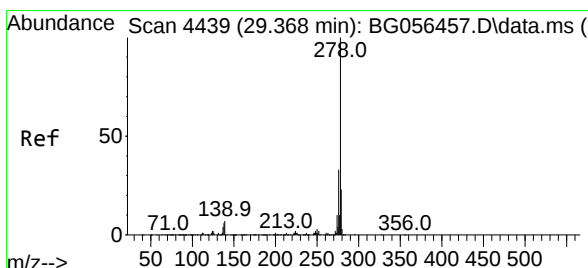
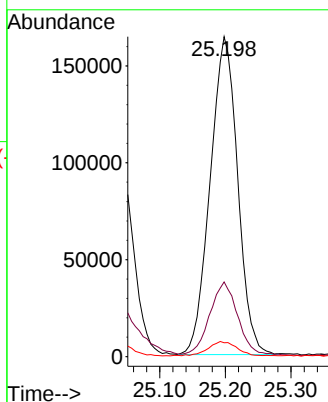
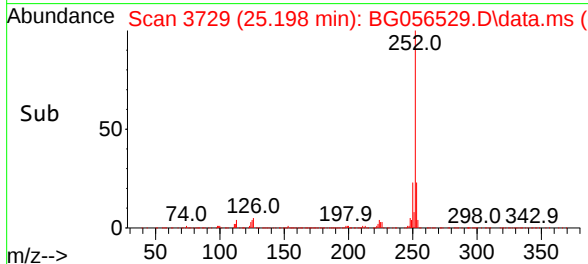
Instrument :
BNA_G
ClientSampleId :
HR-02-013123DL



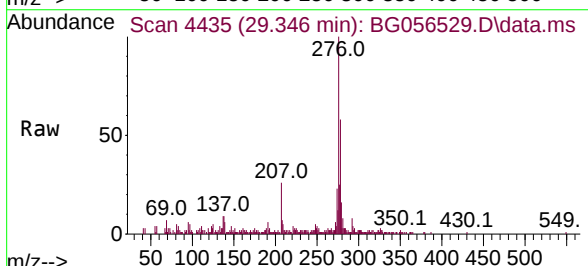
Tgt Ion:252 Resp: 478145
Ion Ratio Lower Upper
252 100
253 23.3 18.4 27.6
125 4.3 4.1 6.1

Manual Integrations
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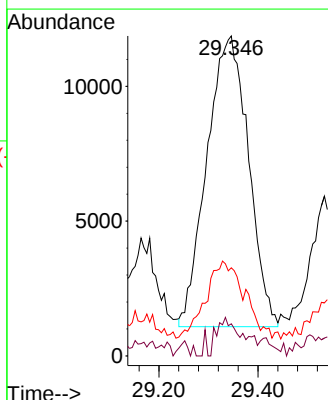
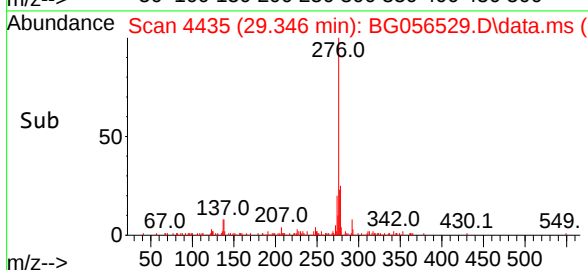
Reviewed By :Christian Giraldo 02/03/2023
Supervised By :Jagrut Upadhyay 02/03/2023

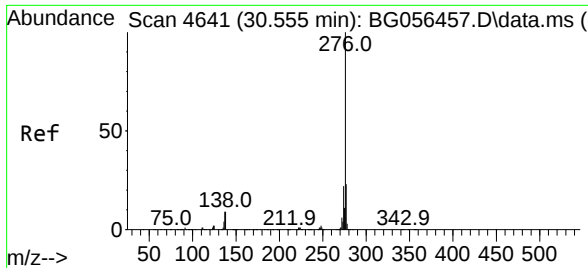


#91
Dibenzo(a,h)anthracene
Concen: 2.919 ng m
RT: 29.346 min Scan# 4435
Delta R.T. 0.001 min
Lab File: BG056529.D
Acq: 3 Feb 2023 1:00



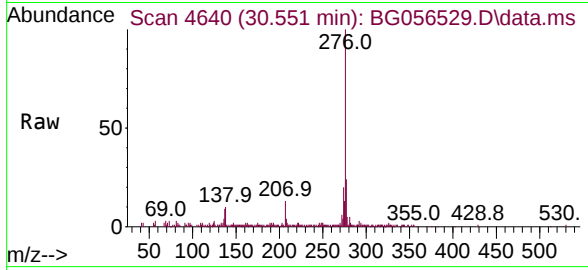
Tgt Ion:278 Resp: 62796
Ion Ratio Lower Upper
278 100
139 10.0 5.5 8.3#
279 27.5 18.8 28.2





#92
 Benzo(g,h,i)perylene
 Concen: 10.451 ng
 RT: 30.551 min Scan# 4641
 Delta R.T. 0.025 min
 Lab File: BG056529.D
 Acq: 3 Feb 2023 1:00

Instrument :
 BNA_G
 ClientSampleId :
 HR-02-013123DL



Tgt Ion: 276 Resp: 216964
 Ion Ratio Lower Upper
 276 100
 277 23.7 18.5 27.7
 138 10.0 7.4 11.0

Manual Integrations
 APPROVED

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