

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG020923\
 Data File : BG056602.D
 Acq On : 9 Feb 2023 18:14
 Operator : CG/JU
 Sample : 01478-01DL 2X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SU-04-02072023DL

Quant Time: Feb 10 00:16:14 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 08 03:02:11 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Christian
 Giraldo
 02/10/2023
 Supervised By :Jagrut
 Upadhyay
 02/10/2023

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.264	152	48342	20.000	ng	0.00
21) Naphthalene-d8	11.096	136	178933	20.000	ng	0.00
39) Acenaphthene-d10	14.886	164	122659	20.000	ng	0.00
64) Phenanthrene-d10	17.630	188	272823	20.000	ng	0.00
76) Chrysene-d12	21.919	240	248179	20.000	ng	0.00
86) Perylene-d12	25.344	264	271934	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.791	112	110182	41.928	ng	0.00
7) Phenol-d6	7.424	99	149040	38.278	ng	0.00
23) Nitrobenzene-d5	9.439	82	80363	25.503	ng	0.00
42) 2,4,6-Tribromophenol	16.373	330	55335	33.934	ng	0.00
45) 2-Fluorobiphenyl	13.511	172	253991	28.709	ng	0.00
79) Terphenyl-d14	20.203	244	386201	27.331	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	11.149	128	40772	4.317	ng	98
52) Acenaphthene	14.951	154	31355	4.673	ng	98
55) Dibenzofuran	15.286	168	40971	3.405	ng	96
58) Fluorene	15.926	166	50177	5.241	ng	98
71) Phenanthrene	17.671	178	514268	36.015	ng	98
72) Anthracene	17.759	178	160036	10.918	ng	100
73) Carbazole	18.029	167	37608	3.012	ng	97
75) Fluoranthene	19.669	202	811510	45.029	ng	100
78) Pyrene	20.027	202	664822	37.665	ng	99
81) Benzo(a)anthracene	21.895	228	359893	20.743	ng	99
83) Chrysene	21.966	228	299298m	18.361	ng	
87) Indeno(1,2,3-cd)pyrene	29.293	276	154349	7.754	ng	# 93
88) Benzo(b)fluoranthene	24.257	252	385376	22.832	ng	99
89) Benzo(k)fluoranthene	24.310	252	162535m	9.538	ng	
90) Benzo(a)pyrene	25.180	252	301634	18.142	ng	99
91) Dibenzo(a,h)anthracene	29.328	278	42151m	2.523	ng	
92) Benzo(g,h,i)perylene	30.538	276	140466	8.712	ng	98

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

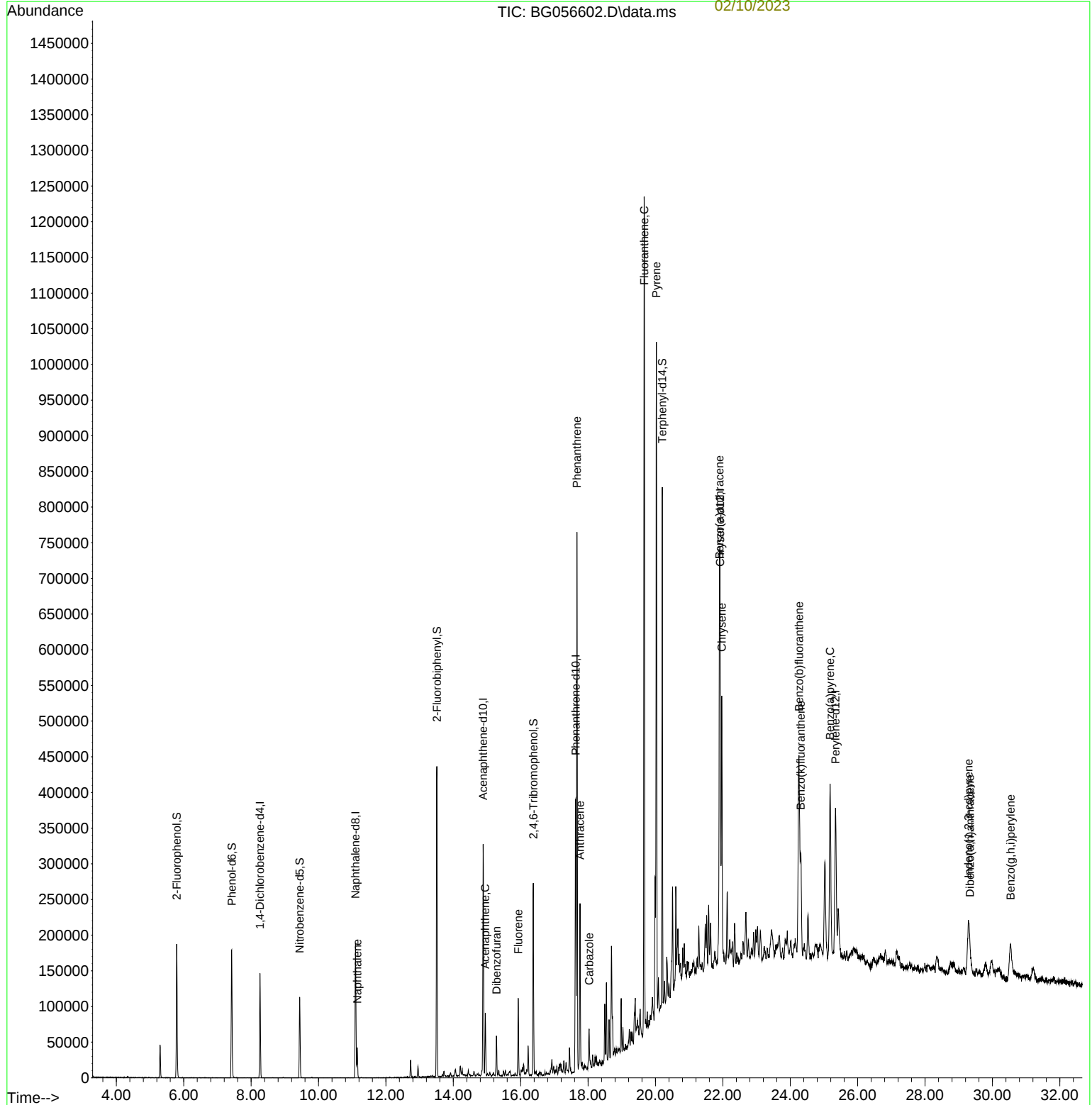
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG020923\
Data File : BG056602.D
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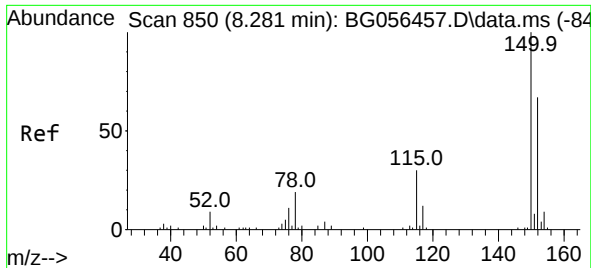
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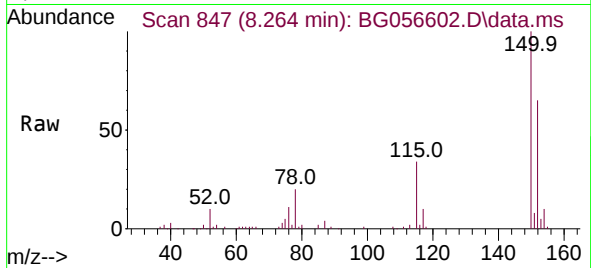
Reviewed By :Christian
Giraldo
02/10/2023
Supervised By :Jagrut
Upadhyay
02/10/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.264 min Scan# 84
Delta R.T. -0.005 min
Lab File: BG056602.D
Acq: 9 Feb 2023 18:14

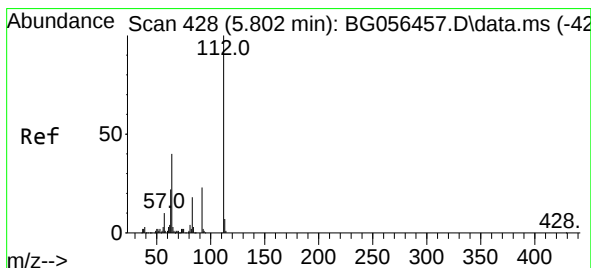
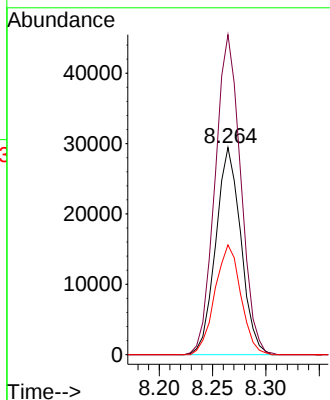
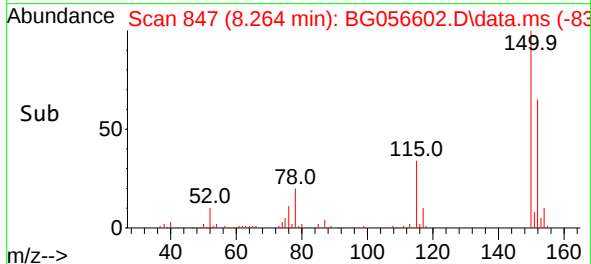
Instrument :
BNA_G
ClientSampleId :
SU-04-02072023DL



Tgt Ion:152 Resp: 48342
Ion Ratio Lower Upper
152 100
150 154.5 120.2 180.4
115 52.9 36.3 54.5

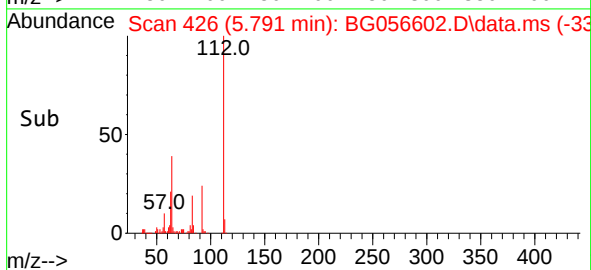
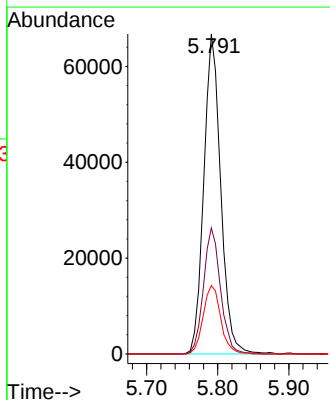
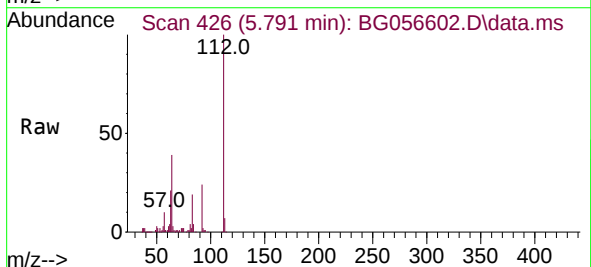
Manual Integrations
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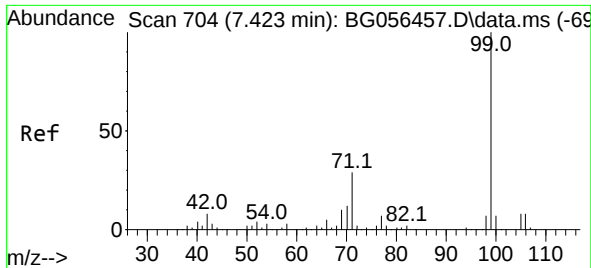
Reviewed By :Christian
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02/10/2023
Supervised By :Jagrut
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02/10/2023



#5
2-Fluorophenol
Concen: 41.928 ng
RT: 5.791 min Scan# 426
Delta R.T. 0.001 min
Lab File: BG056602.D
Acq: 9 Feb 2023 18:14

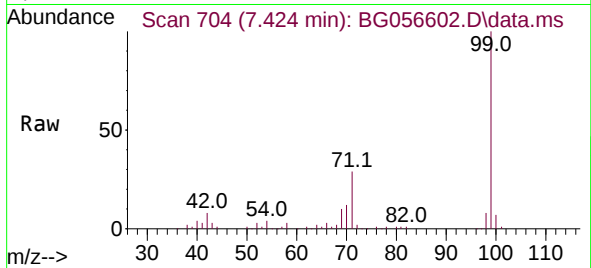
Tgt Ion:112 Resp: 110182
Ion Ratio Lower Upper
112 100
64 39.4 31.9 47.9
63 21.3 17.4 26.0





#7
Phenol-d6
Concen: 38.278 ng
RT: 7.424 min Scan# 704
Delta R.T. 0.007 min
Lab File: BG056602.D
Acq: 9 Feb 2023 18:14

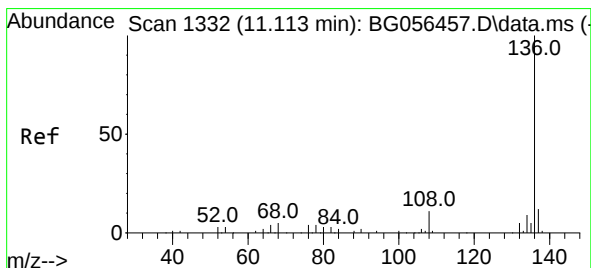
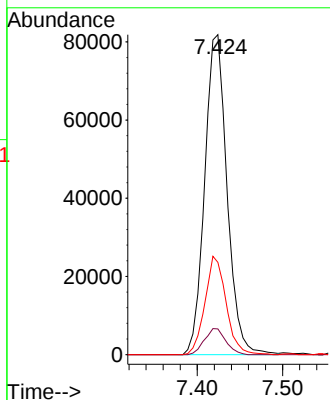
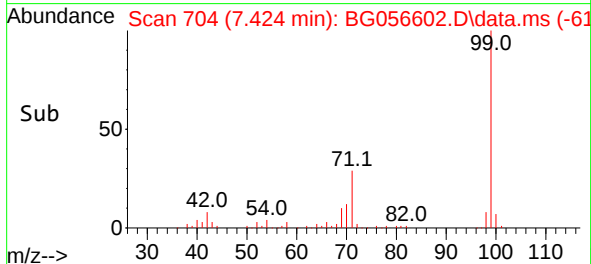
Instrument :
BNA_G
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SU-04-02072023DL



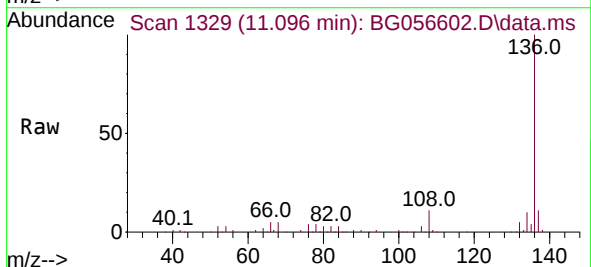
Tgt Ion: 99 Resp: 149040
Ion Ratio Lower Upper
99 100
42 8.0 6.6 10.0
71 28.8 23.4 35.0

Manual Integrations
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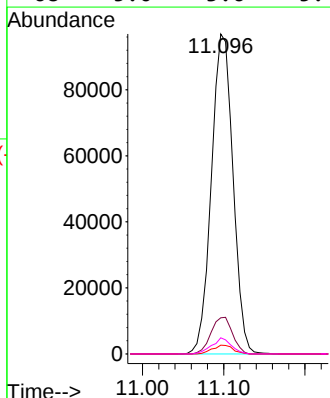
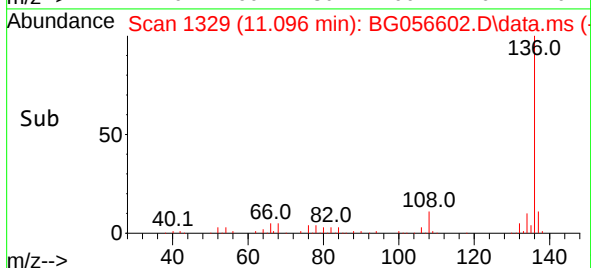
Reviewed By :Christian
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Supervised By :Jagrut
Upadhyay
02/10/2023

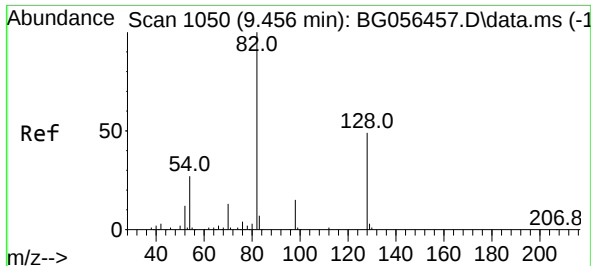


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.096 min Scan# 1329
Delta R.T. -0.005 min
Lab File: BG056602.D
Acq: 9 Feb 2023 18:14



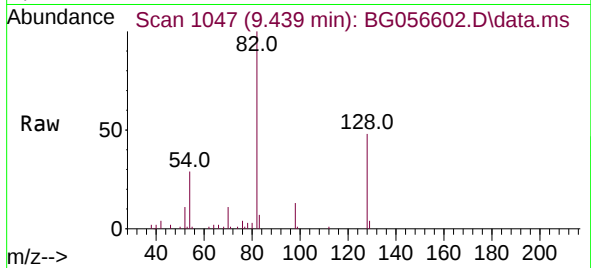
Tgt Ion:136 Resp: 178933
Ion Ratio Lower Upper
136 100
137 11.3 9.4 14.0
54 2.7 2.2 3.4
68 5.0 3.6 5.4





#23
Nitrobenzene-d5
Concen: 25.503 ng
RT: 9.439 min Scan# 1050
Delta R.T. -0.005 min
Lab File: BG056602.D
Acq: 9 Feb 2023 18:14

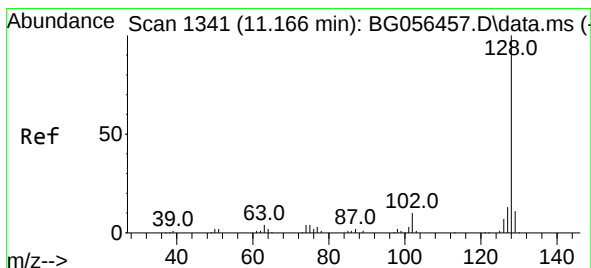
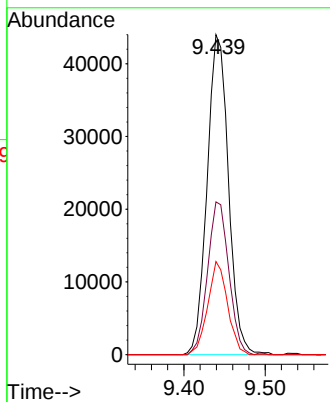
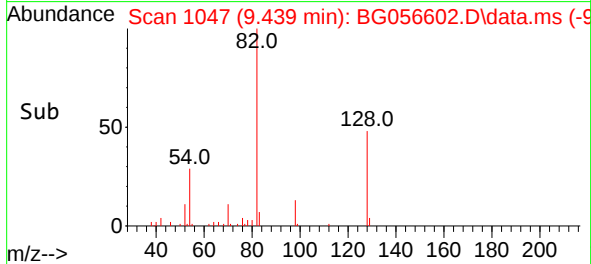
Instrument :
BNA_G
ClientSampleId :
SU-04-02072023DL



Tgt Ion: 82 Resp: 80363
Ion Ratio Lower Upper
82 100
128 47.7 39.4 59.2
54 29.1 21.4 32.2

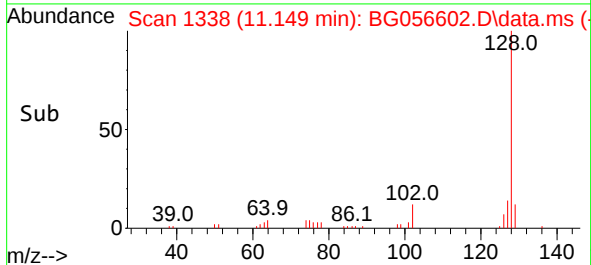
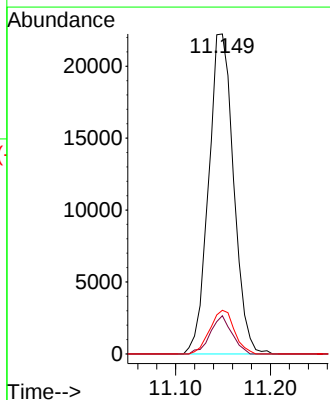
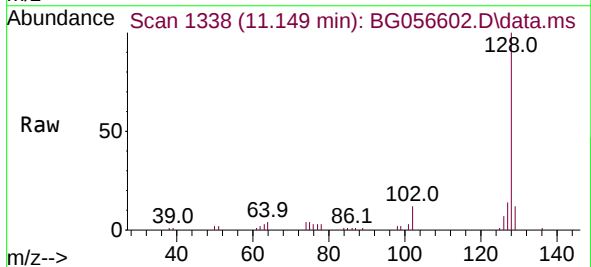
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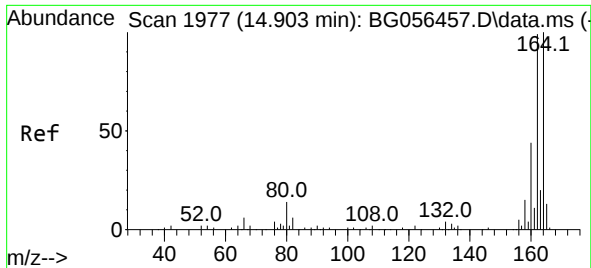
Reviewed By :Christian
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02/10/2023
Supervised By :Jagrut
Upadhyay
02/10/2023



#31
Naphthalene
Concen: 4.317 ng
RT: 11.149 min Scan# 1338
Delta R.T. -0.005 min
Lab File: BG056602.D
Acq: 9 Feb 2023 18:14

Tgt Ion:128 Resp: 40772
Ion Ratio Lower Upper
128 100
129 11.9 8.7 13.1
127 13.6 10.4 15.6





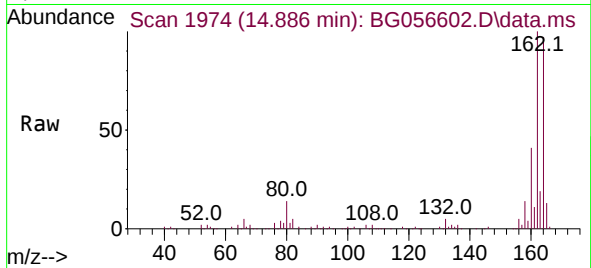
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.886 min Scan# 1974
Delta R.T. -0.005 min
Lab File: BG056602.D
Acq: 9 Feb 2023 18:14

Instrument :

BNA_G

ClientSampleId :

SU-04-02072023DL

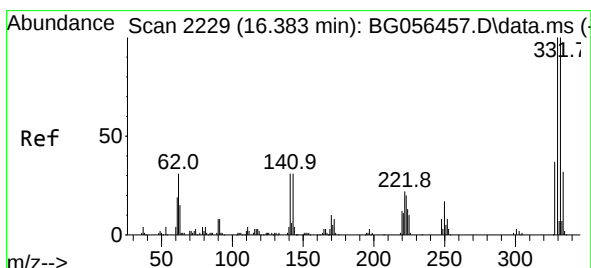
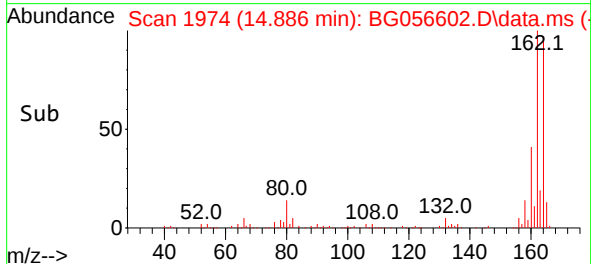
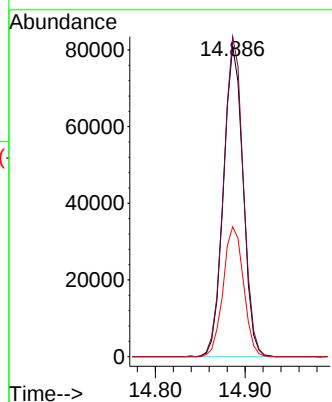


Tgt Ion:164 Resp: 122659
Ion Ratio Lower Upper
164 100
162 103.1 79.6 119.4
160 41.9 34.9 52.3

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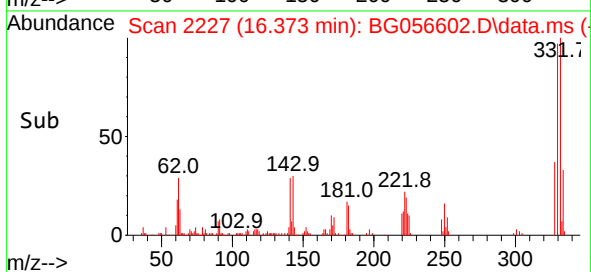
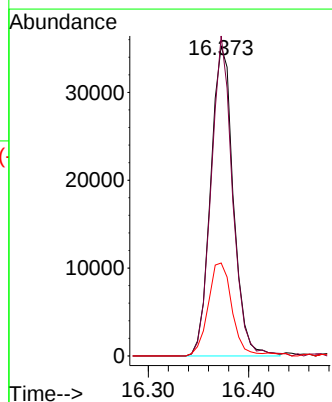
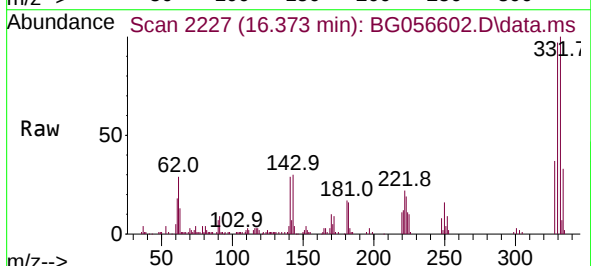
Reviewed By :Christian
Giraldo
02/10/2023

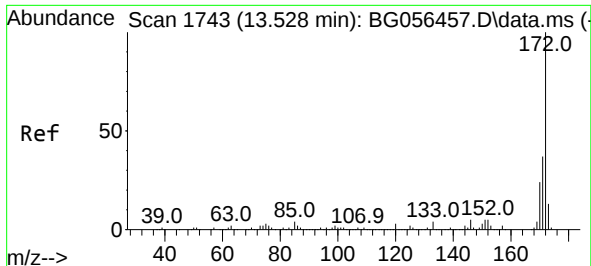
Supervised By :Jagrut
Upadhyay
02/10/2023



#42
2,4,6-Tribromophenol
Concen: 33.934 ng
RT: 16.373 min Scan# 2227
Delta R.T. -0.005 min
Lab File: BG056602.D
Acq: 9 Feb 2023 18:14

Tgt Ion:330 Resp: 55335
Ion Ratio Lower Upper
330 100
332 97.2 79.0 118.6
141 31.4 24.2 36.4





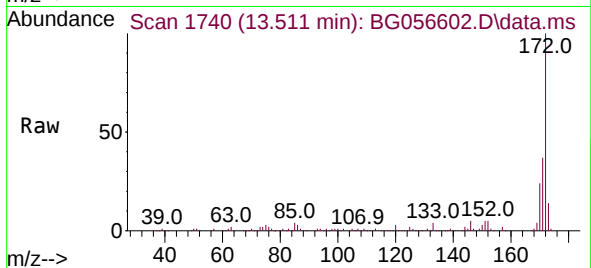
#45
2-Fluorobiphenyl
Concen: 28.709 ng
RT: 13.511 min Scan# 1740
Delta R.T. -0.005 min
Lab File: BG056602.D
Acq: 9 Feb 2023 18:14

Instrument :

BNA_G

ClientSampleId :

SU-04-02072023DL

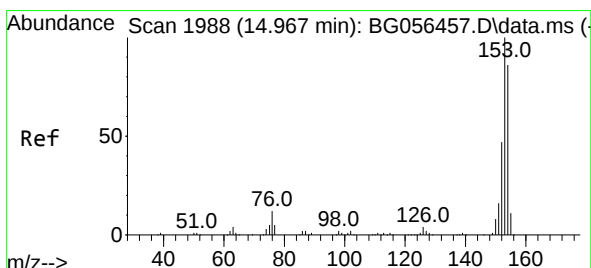
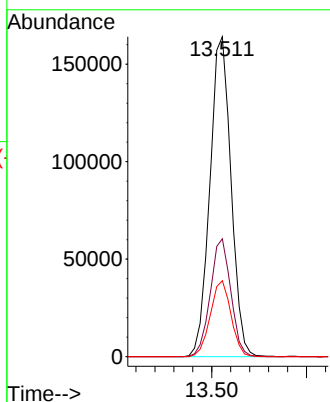
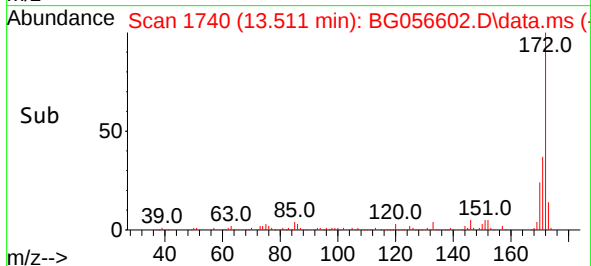


Tgt Ion:172 Resp: 253991
Ion Ratio Lower Upper
172 100
171 36.8 29.5 44.3
170 23.7 19.2 28.8

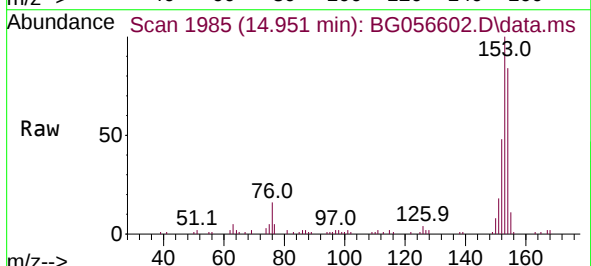
Manual Integrations
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Giraldo
02/10/2023

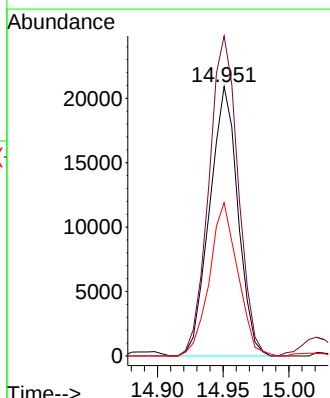
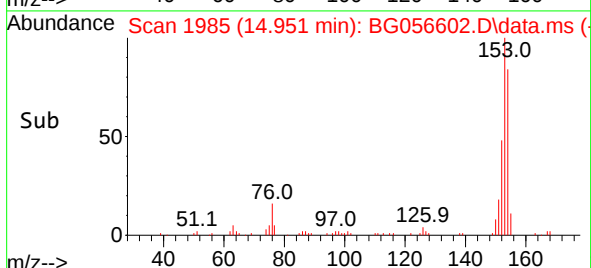
Supervised By :Jagrut
Upadhyay
02/10/2023

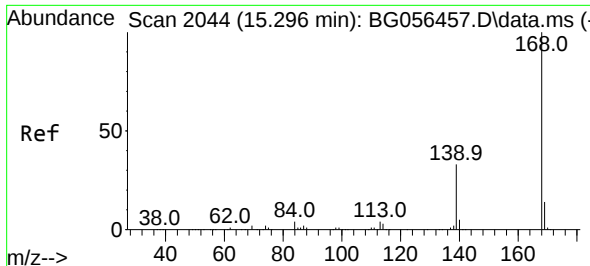


#52
Acenaphthene
Concen: 4.673 ng
RT: 14.951 min Scan# 1985
Delta R.T. -0.005 min
Lab File: BG056602.D
Acq: 9 Feb 2023 18:14



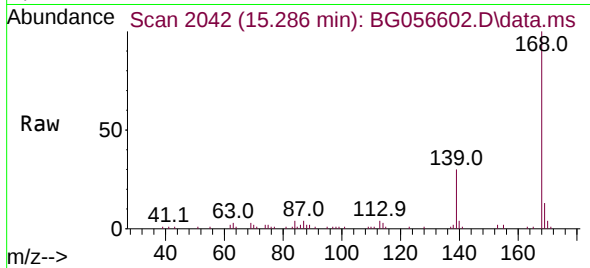
Tgt Ion:154 Resp: 31355
Ion Ratio Lower Upper
154 100
153 118.8 93.4 140.0
152 56.9 43.4 65.2





#55
Dibenzofuran
Concen: 3.405 ng
RT: 15.286 min Scan# 2042
Delta R.T. 0.001 min
Lab File: BG056602.D
Acq: 9 Feb 2023 18:14

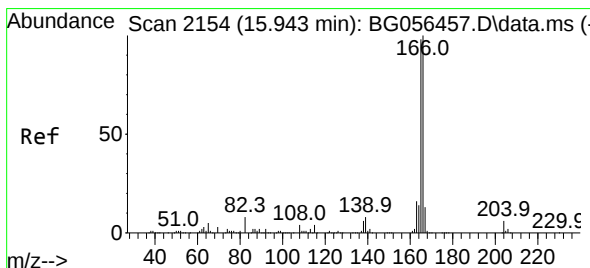
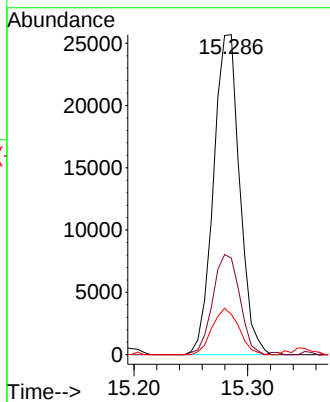
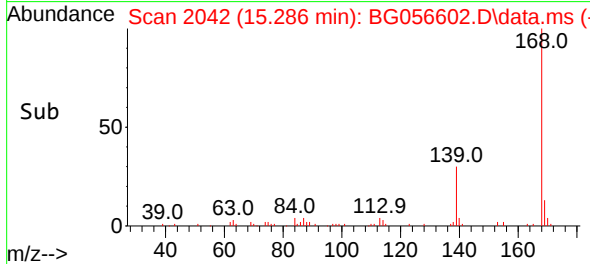
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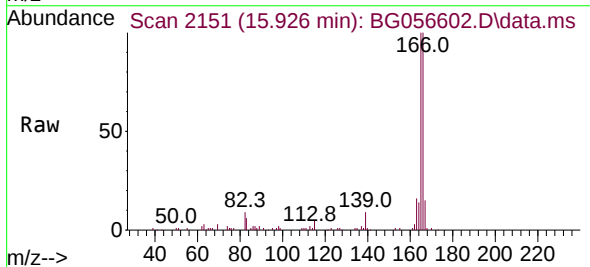
Tgt Ion:168 Resp: 4097
Ion Ratio Lower Upper
168 100
139 30.2 26.2 39.2
169 12.6 11.0 16.6

Manual Integrations
APPROVED

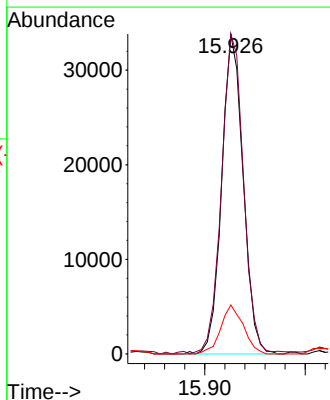
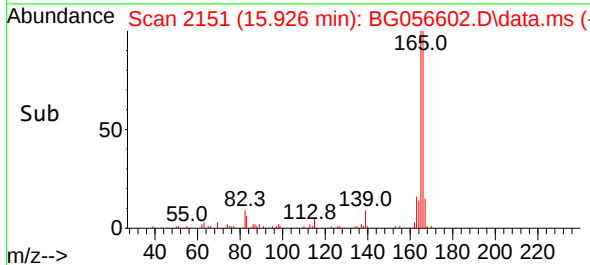
Reviewed By :Christian
Giraldo
02/10/2023
Supervised By :Jagrut
Upadhyay
02/10/2023

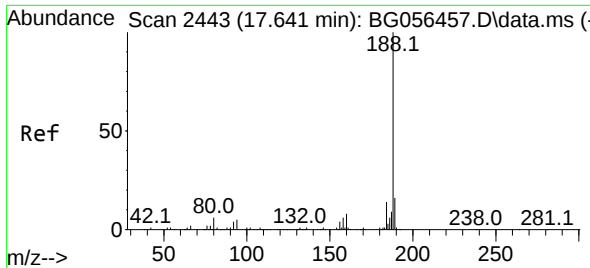


#58
Fluorene
Concen: 5.241 ng
RT: 15.926 min Scan# 2151
Delta R.T. -0.005 min
Lab File: BG056602.D
Acq: 9 Feb 2023 18:14



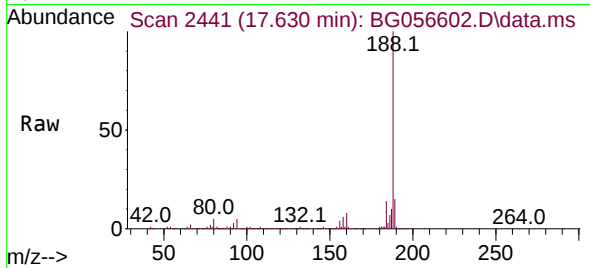
Tgt Ion:166 Resp: 50177
Ion Ratio Lower Upper
166 100
165 100.2 78.8 118.2
167 15.3 10.6 15.8





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.630 min Scan# 2443
Delta R.T. 0.001 min
Lab File: BG056602.D
Acq: 9 Feb 2023 18:14

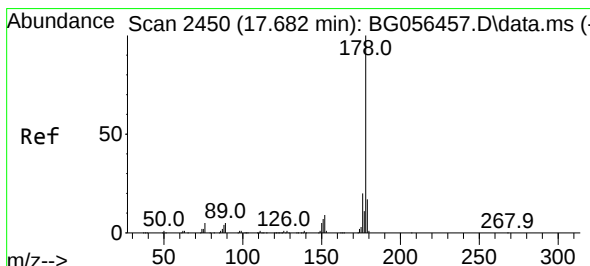
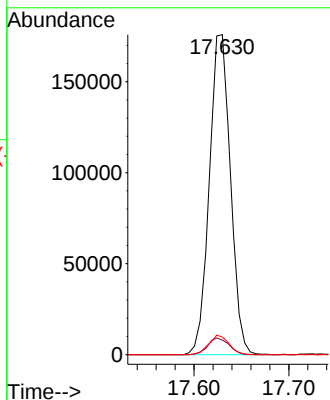
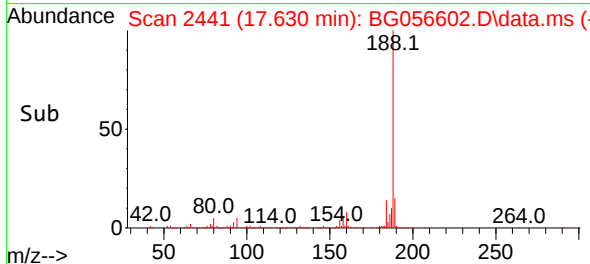
Instrument :
BNA_G
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SU-04-02072023DL



Tgt Ion:188 Resp: 272823
Ion Ratio Lower Upper
188 100
94 4.5 4.1 6.1
80 5.5 5.0 7.4

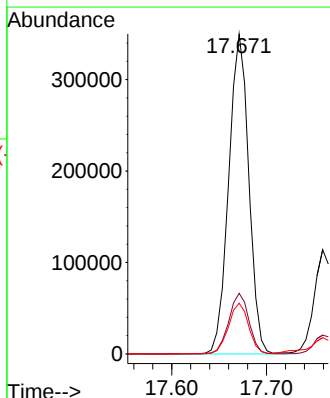
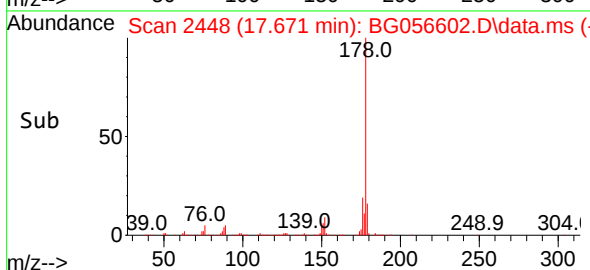
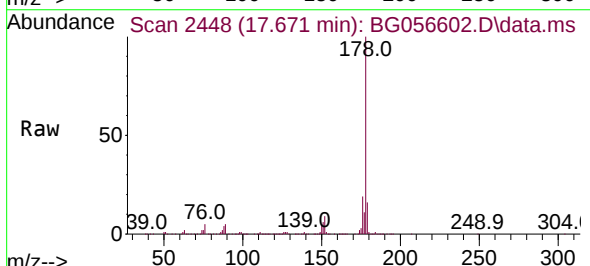
Manual Integrations
APPROVED

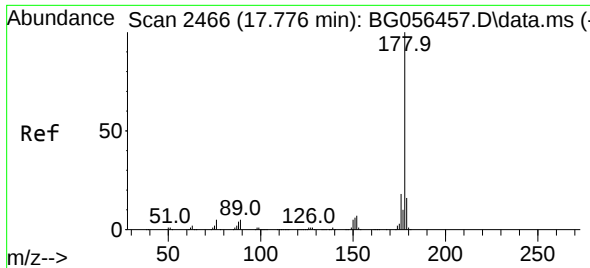
Reviewed By :Christian
Giraldo
02/10/2023
Supervised By :Jagrut
Upadhyay
02/10/2023



#71
Phenanthrene
Concen: 36.015 ng
RT: 17.671 min Scan# 2448
Delta R.T. 0.001 min
Lab File: BG056602.D
Acq: 9 Feb 2023 18:14

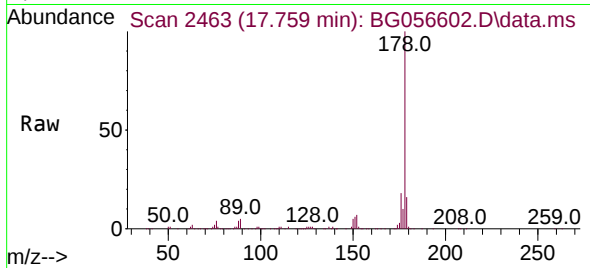
Tgt Ion:178 Resp: 514268
Ion Ratio Lower Upper
178 100
176 18.9 15.6 23.4
179 15.8 13.3 19.9





#72
 Anthracene
 Concen: 10.918 ng
 RT: 17.759 min Scan# 2463
 Delta R.T. -0.005 min
 Lab File: BG056602.D
 Acq: 9 Feb 2023 18:14

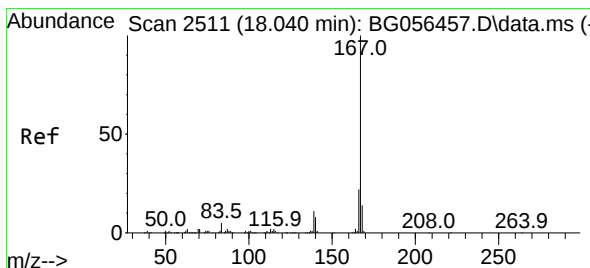
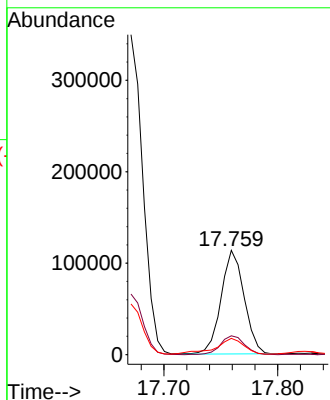
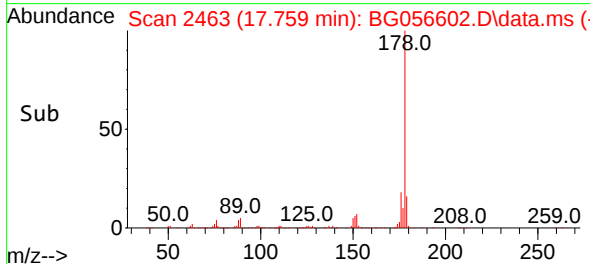
Instrument :
 BNA_G
 ClientSampleId :
 SU-04-02072023DL



Tgt Ion:178 Resp: 160036
 Ion Ratio Lower Upper
 178 100
 176 18.0 14.5 21.7
 179 15.6 12.5 18.7

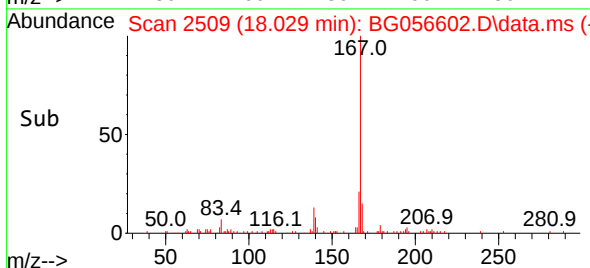
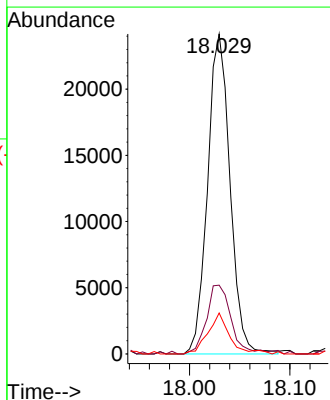
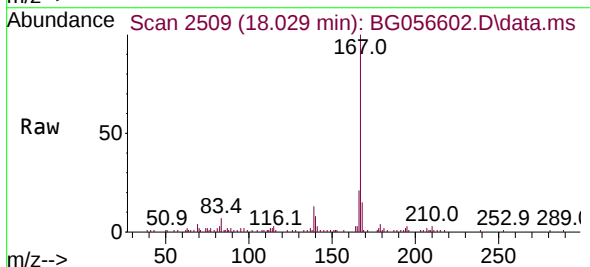
Manual Integrations
 APPROVED

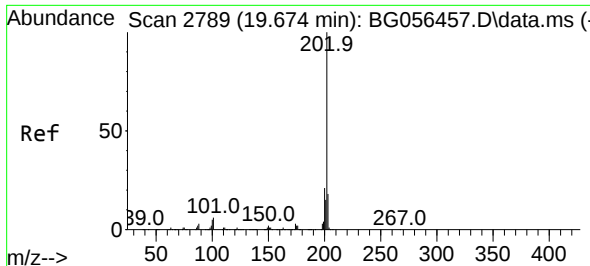
Reviewed By :Christian
 Giraldo
 02/10/2023
 Supervised By :Jagrut
 Upadhyay
 02/10/2023



#73
 Carbazole
 Concen: 3.012 ng
 RT: 18.029 min Scan# 2509
 Delta R.T. 0.001 min
 Lab File: BG056602.D
 Acq: 9 Feb 2023 18:14

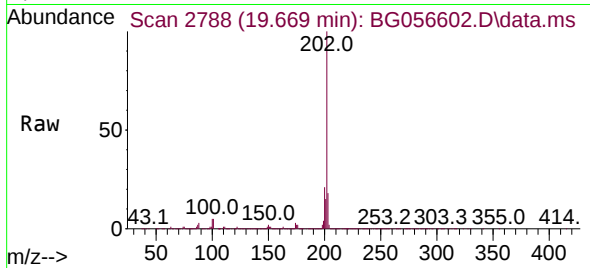
Tgt Ion:167 Resp: 37608
 Ion Ratio Lower Upper
 167 100
 166 21.5 17.8 26.6
 139 12.8 8.9 13.3





#75
Fluoranthene
Concen: 45.029 ng
RT: 19.669 min Scan# 21
Delta R.T. 0.001 min
Lab File: BG056602.D
Acq: 9 Feb 2023 18:14

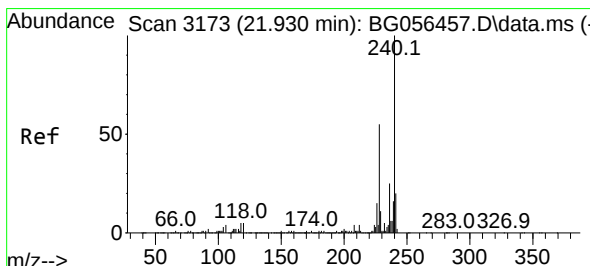
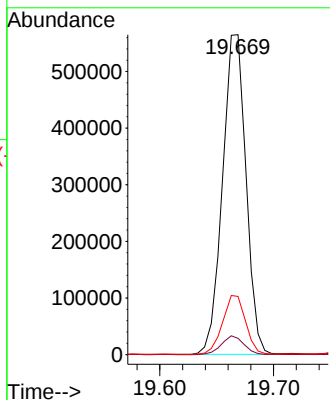
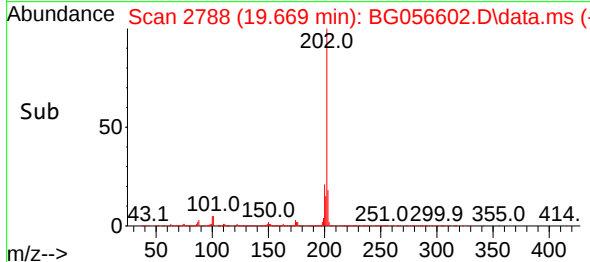
Instrument :
BNA_G
ClientSampleId :
SU-04-02072023DL



Tgt Ion:202 Resp: 811510
Ion Ratio Lower Upper
202 100
101 5.1 0.0 25.6
203 18.2 0.0 38.1

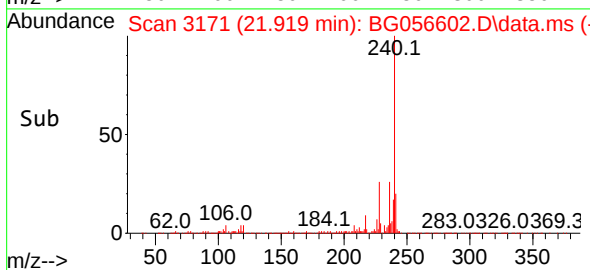
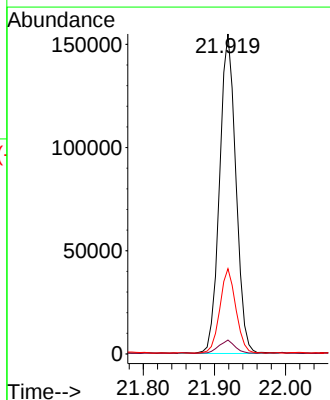
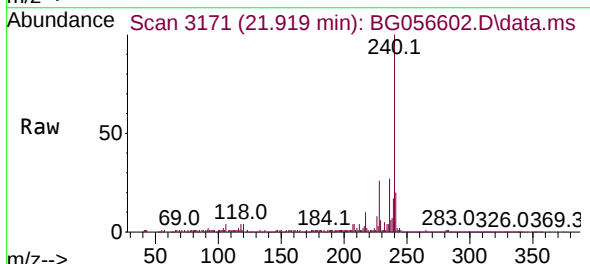
Manual Integrations
APPROVED

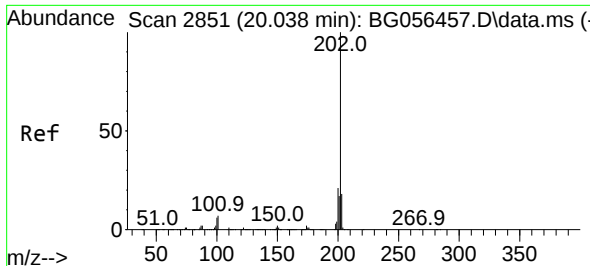
Reviewed By :Christian
Giraldo
02/10/2023
Supervised By :Jagrut
Upadhyay
02/10/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.919 min Scan# 3171
Delta R.T. -0.005 min
Lab File: BG056602.D
Acq: 9 Feb 2023 18:14

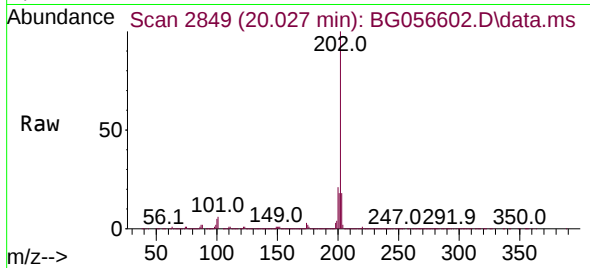
Tgt Ion:240 Resp: 248179
Ion Ratio Lower Upper
240 100
120 4.3 3.8 5.8
236 26.6 20.2 30.2





#78
Pyrene
Concen: 37.665 ng
RT: 20.027 min Scan# 2849
Delta R.T. 0.001 min
Lab File: BG056602.D
Acq: 9 Feb 2023 18:14

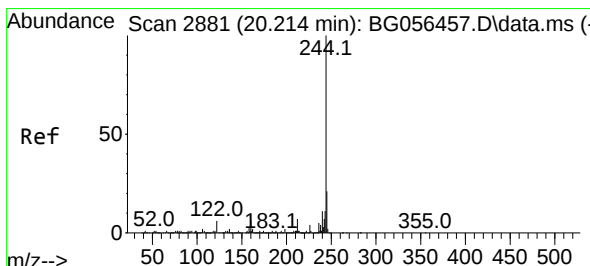
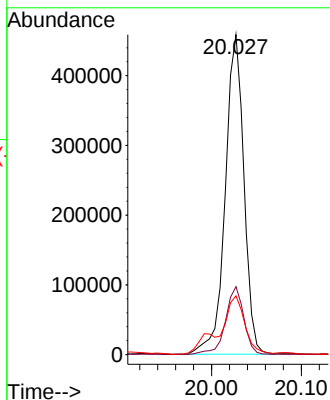
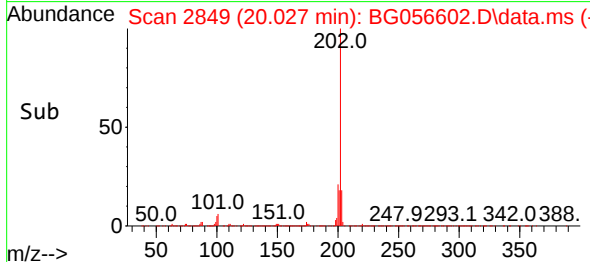
Instrument :
BNA_G
ClientSampleId :
SU-04-02072023DL



Tgt Ion:202 Resp: 664822
Ion Ratio Lower Upper
202 100
200 21.2 16.7 25.1
203 18.4 14.4 21.6

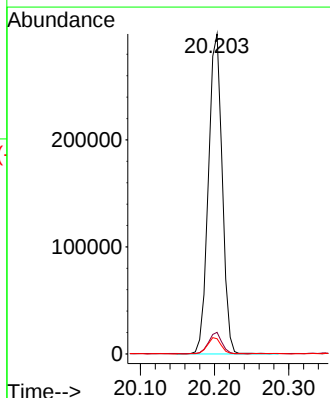
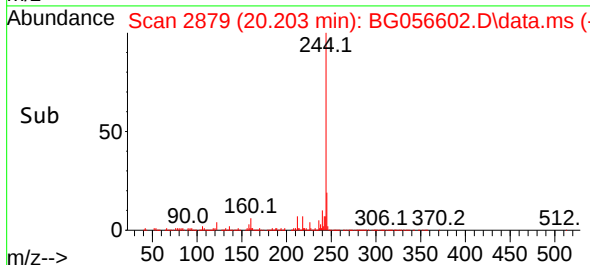
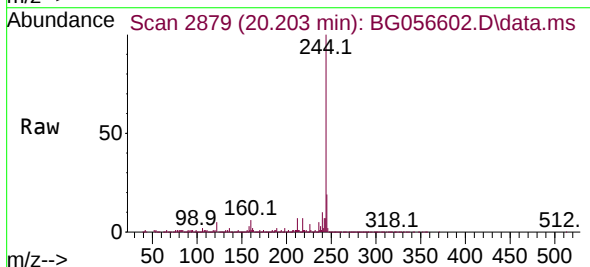
Manual Integrations
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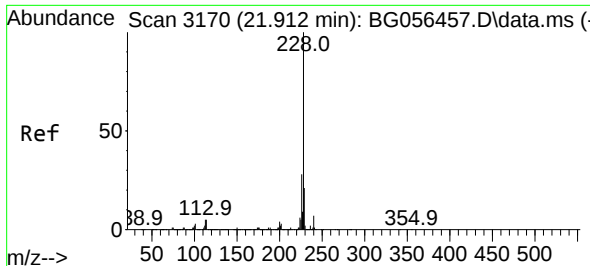
Reviewed By :Christian
Giraldo
02/10/2023
Supervised By :Jagrut
Upadhyay
02/10/2023



#79
Terphenyl-d14
Concen: 27.331 ng
RT: 20.203 min Scan# 2879
Delta R.T. -0.005 min
Lab File: BG056602.D
Acq: 9 Feb 2023 18:14

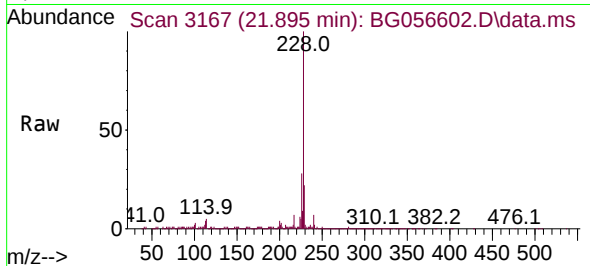
Tgt Ion:244 Resp: 386201
Ion Ratio Lower Upper
244 100
212 6.7 5.5 8.3
122 4.7 4.4 6.6





#81
Benzo(a)anthracene
Concen: 20.743 ng
RT: 21.895 min Scan# 3170
Delta R.T. -0.005 min
Lab File: BG056602.D
Acq: 9 Feb 2023 18:14

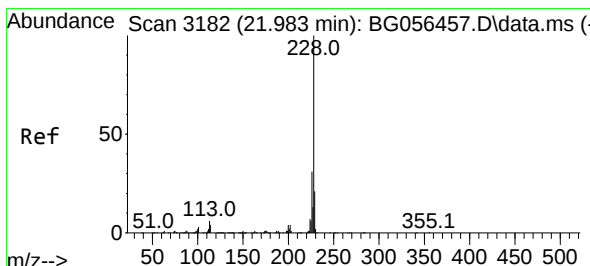
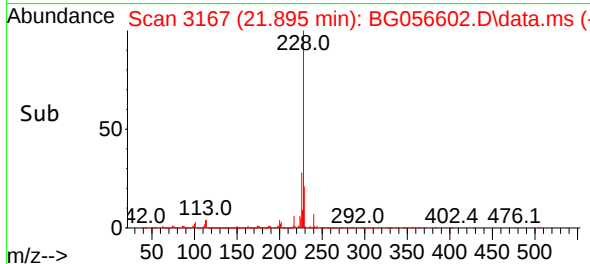
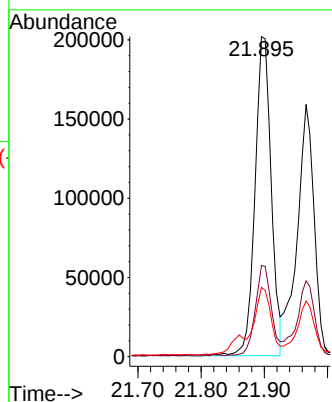
Instrument :
BNA_G
ClientSampleId :
SU-04-02072023DL



Tgt Ion:228 Resp: 359893
Ion Ratio Lower Upper
228 100
226 28.5 22.4 33.6
229 21.6 16.5 24.7

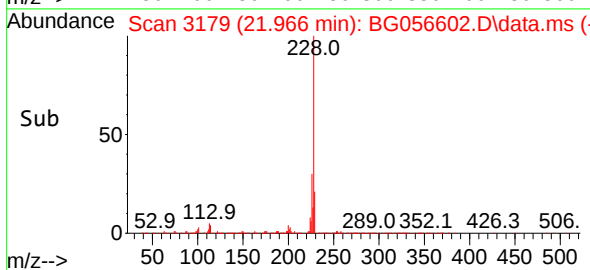
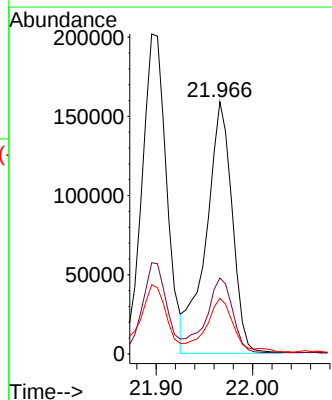
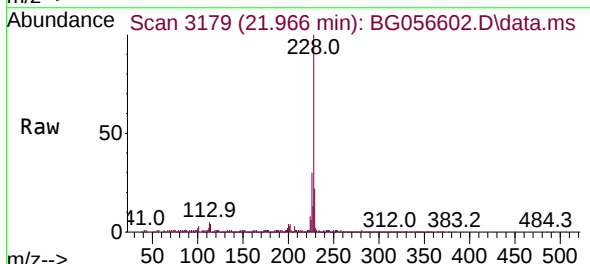
Manual Integrations
APPROVED

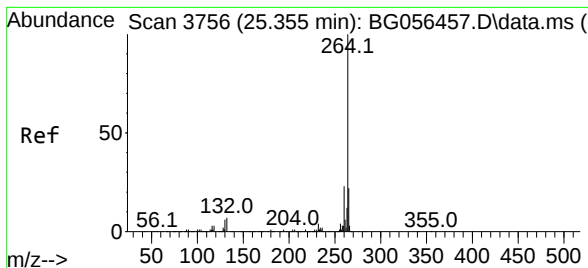
Reviewed By :Christian
Giraldo
02/10/2023
Supervised By :Jagrut
Upadhyay
02/10/2023



#83
Chrysene
Concen: 18.361 ng m
RT: 21.966 min Scan# 3179
Delta R.T. -0.005 min
Lab File: BG056602.D
Acq: 9 Feb 2023 18:14

Tgt Ion:228 Resp: 299298
Ion Ratio Lower Upper
228 100
226 30.1 25.0 37.4
229 22.0 16.4 24.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 25.344 min Scan# 31

Delta R.T. 0.007 min

Lab File: BG056602.D

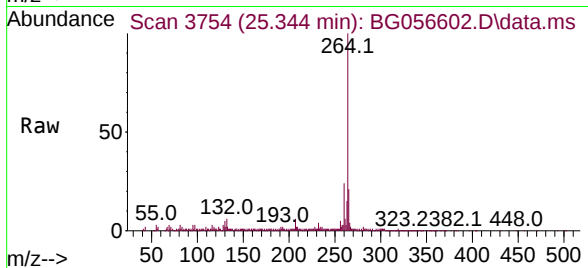
Acq: 9 Feb 2023 18:14

Instrument :

BNA_G

ClientSampleId :

SU-04-02072023DL



Tgt Ion:264 Resp: 271934

Ion Ratio Lower Upper

264 100

260 23.7 18.2 27.4

265 21.0 18.1 27.1

Manual Integrations

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Reviewed By :Christian

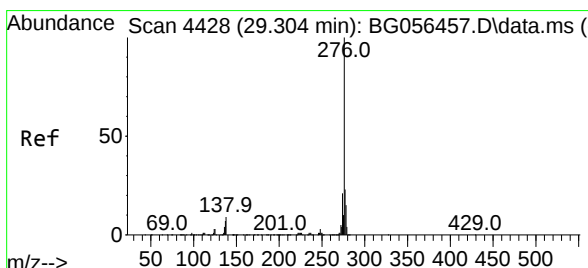
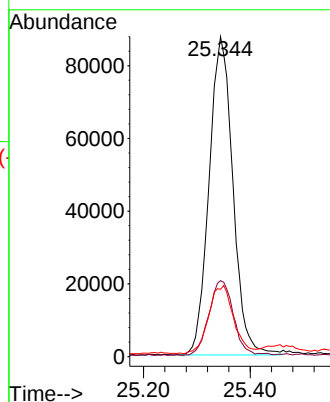
Giraldo

02/10/2023

Supervised By :Jagrut

Upadhyay

02/10/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 7.754 ng

RT: 29.293 min Scan# 4426

Delta R.T. 0.007 min

Lab File: BG056602.D

Acq: 9 Feb 2023 18:14

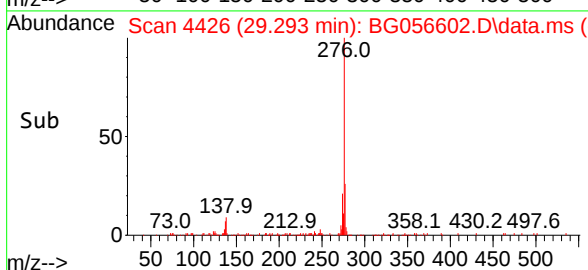
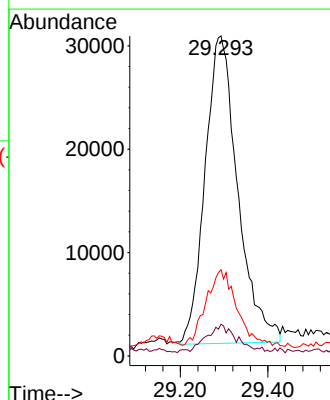
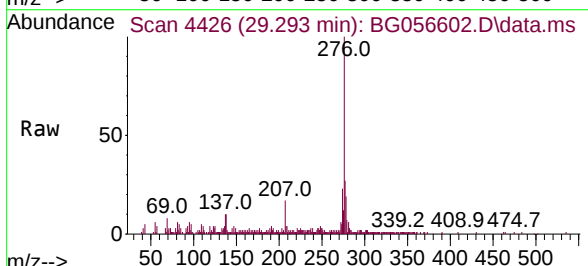
Tgt Ion:276 Resp: 154349

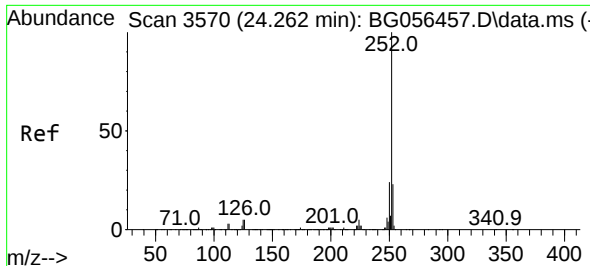
Ion Ratio Lower Upper

276 100

138 7.5 9.4 14.2#

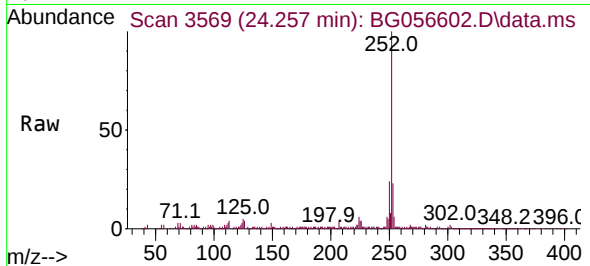
277 23.0 20.3 30.5





#88
Benzo(b)fluoranthene
Concen: 22.832 ng
RT: 24.257 min Scan# 3569
Delta R.T. 0.007 min
Lab File: BG056602.D
Acq: 9 Feb 2023 18:14

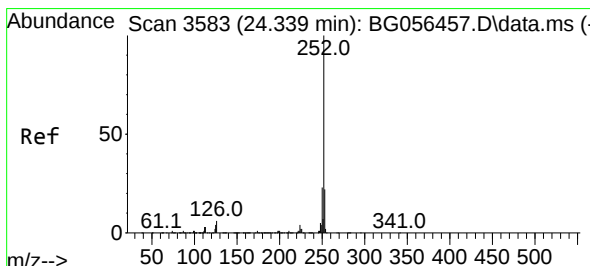
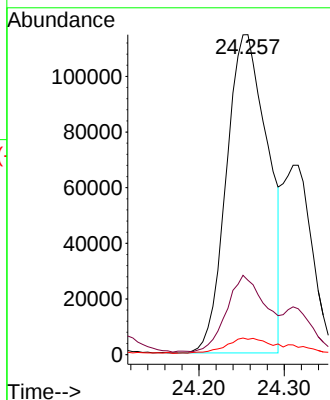
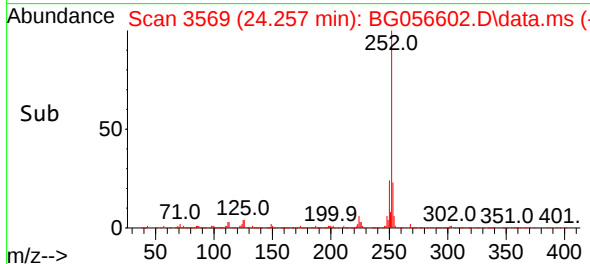
Instrument :
BNA_G
ClientSampleId :
SU-04-02072023DL



Tgt Ion:252 Resp: 385376
Ion Ratio Lower Upper
252 100
253 23.2 18.1 27.1
125 4.8 3.9 5.9

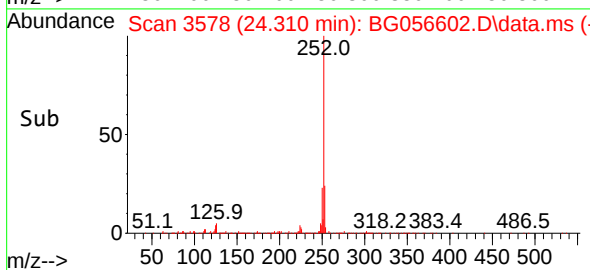
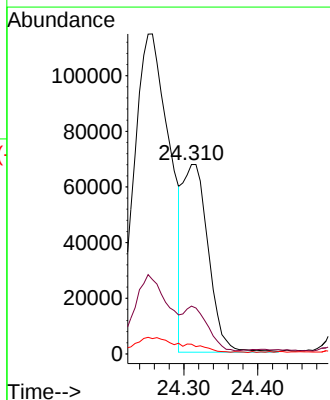
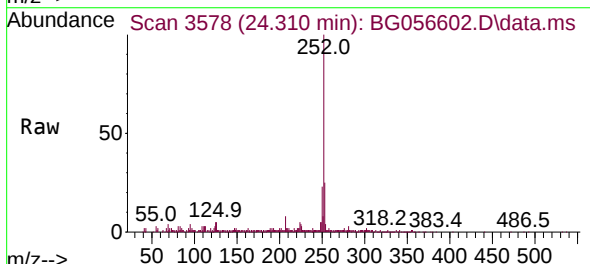
Manual Integrations
APPROVED

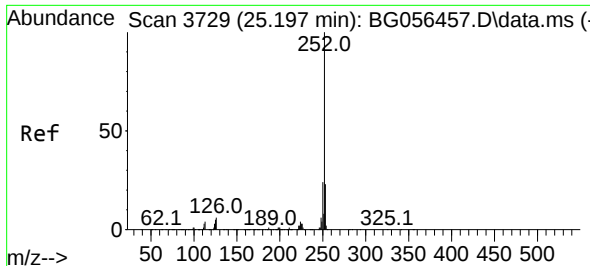
Reviewed By :Christian
Giraldo
02/10/2023
Supervised By :Jagrut
Upadhyay
02/10/2023



#89
Benzo(k)fluoranthene
Concen: 9.538 ng m
RT: 24.310 min Scan# 3578
Delta R.T. -0.011 min
Lab File: BG056602.D
Acq: 9 Feb 2023 18:14

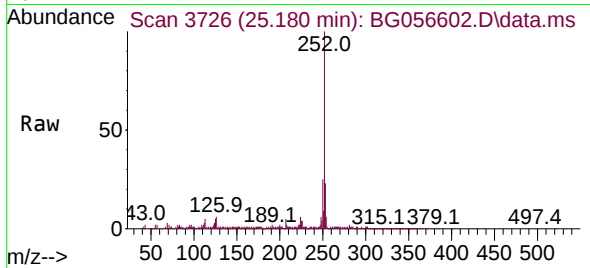
Tgt Ion:252 Resp: 162535
Ion Ratio Lower Upper
252 100
253 25.2 17.5 26.3
125 5.1 3.4 5.0#





#90
Benzo(a)pyrene
Concen: 18.142 ng
RT: 25.180 min Scan# 31
Delta R.T. 0.001 min
Lab File: BG056602.D
Acq: 9 Feb 2023 18:14

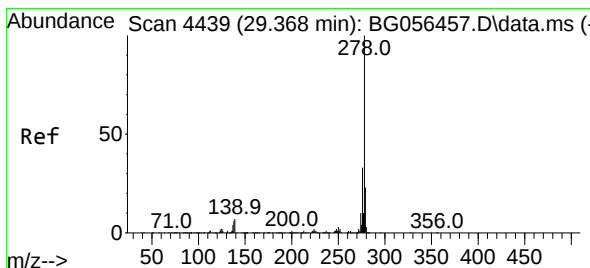
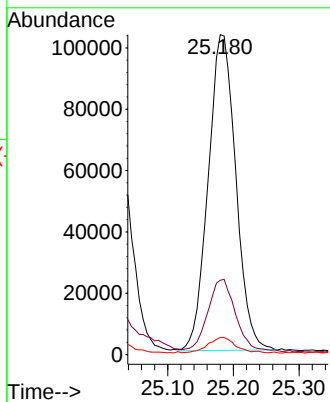
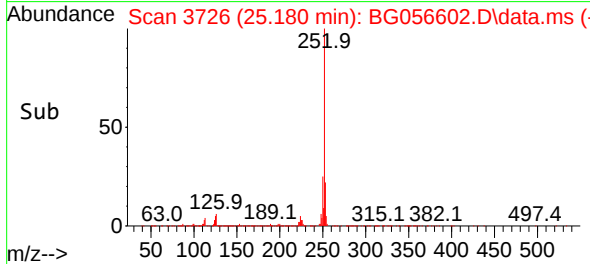
Instrument :
BNA_G
ClientSampleId :
SU-04-02072023DL



Tgt Ion:252 Resp: 301634
Ion Ratio Lower Upper
252 100
253 23.2 18.4 27.6
125 5.4 4.1 6.1

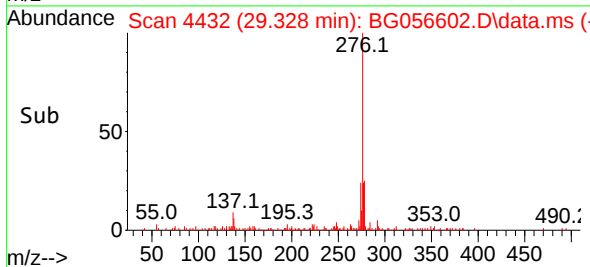
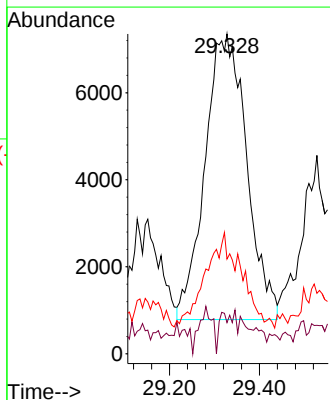
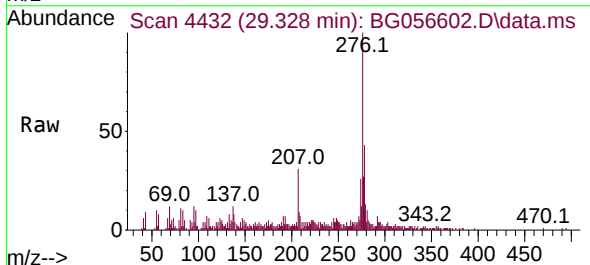
Manual Integrations
APPROVED

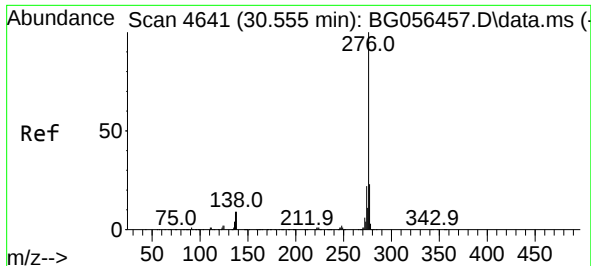
Reviewed By :Christian
Giraldo
02/10/2023
Supervised By :Jagrut
Upadhyay
02/10/2023



#91
Dibenzo(a,h)anthracene
Concen: 2.523 ng m
RT: 29.328 min Scan# 4432
Delta R.T. -0.017 min
Lab File: BG056602.D
Acq: 9 Feb 2023 18:14

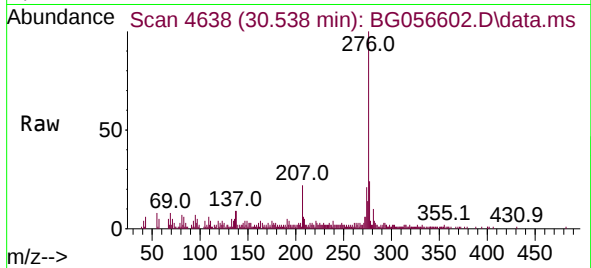
Tgt Ion:278 Resp: 42151
Ion Ratio Lower Upper
278 100
139 9.8 5.5 8.3#
279 29.6 18.8 28.2#





#92
Benzo(g,h,i)perylene
Concen: 8.712 ng
RT: 30.538 min Scan# 4638
Delta R.T. 0.013 min
Lab File: BG056602.D
Acq: 9 Feb 2023 18:14

Instrument :
BNA_G
ClientSampleId :
SU-04-02072023DL



Tgt Ion:276 Resp: 140466
Ion Ratio Lower Upper
276 100
277 24.5 18.5 27.7
138 9.0 7.4 11.0

Manual Integrations
APPROVED

Reviewed By :Christian
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02/10/2023

Supervised By :Jagrut
Upadhyay
02/10/2023

