

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG042623\
 Data File : BG057194.D
 Acq On : 26 Apr 2023 16:05
 Operator : CG/JU
 Sample : 02270-09DL 100X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SB-25-10-12-20230411DL

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 04/27/2023
 Supervised By : Jagrut Upadhyay 04/27/2023

Quant Time: Apr 27 03:06:35 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG042423.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Apr 27 03:02:41 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.378	152	17562	20.000	ng	0.00
21) Naphthalene-d8	11.215	136	71571	20.000	ng	0.00
39) Acenaphthene-d10	14.993	164	54402	20.000	ng	0.00
64) Phenanthrene-d10	17.730	188	137456	20.000	ng	0.00
76) Chrysene-d12	22.042	240	124293	20.000	ng	# 0.00
86) Perylene-d12	25.555	264	130842	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.899	112	749	0.773	ng	0.00
7) Phenol-d6	7.514	99	1002	0.715	ng	0.00
23) Nitrobenzene-d5	9.553	82	627	0.433	ng	0.00
42) 2,4,6-Tribromophenol	16.479	330	334	0.465	ng	0.00
45) 2-Fluorobiphenyl	13.612	172	1790	0.442	ng	0.00
79) Terphenyl-d14	20.297	244	3573	0.503	ng	0.00
Target Compounds						Qvalue
52) Acenaphthene	15.051	154	8500	2.678	ng	91
58) Fluorene	16.032	166	9449	2.282	ng	98
71) Phenanthrene	17.771	178	131000	18.668	ng	99
72) Anthracene	17.865	178	40041	5.643	ng	98
75) Fluoranthene	19.763	202	321855	36.918	ng	98
78) Pyrene	20.121	202	271657	32.191	ng	100
81) Benzo(a)anthracene	22.018	228	194713	22.785	ng	99
83) Chrysene	22.095	228	187218m	22.717	ng	
87) Indeno(1,2,3-cd)pyrene	29.602	276	82720	8.826	ng	# 77
88) Benzo(b)fluoranthene	24.433	252	240772m	29.356	ng	
89) Benzo(k)fluoranthene	24.497	252	82001m	9.666	ng	
90) Benzo(a)pyrene	25.390	252	154082	19.073	ng	96
91) Dibenzo(a,h)anthracene	29.637	278	28001m	3.598	ng	
92) Benzo(g,h,i)perylene	30.877	276	76718	9.964	ng	# 94

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

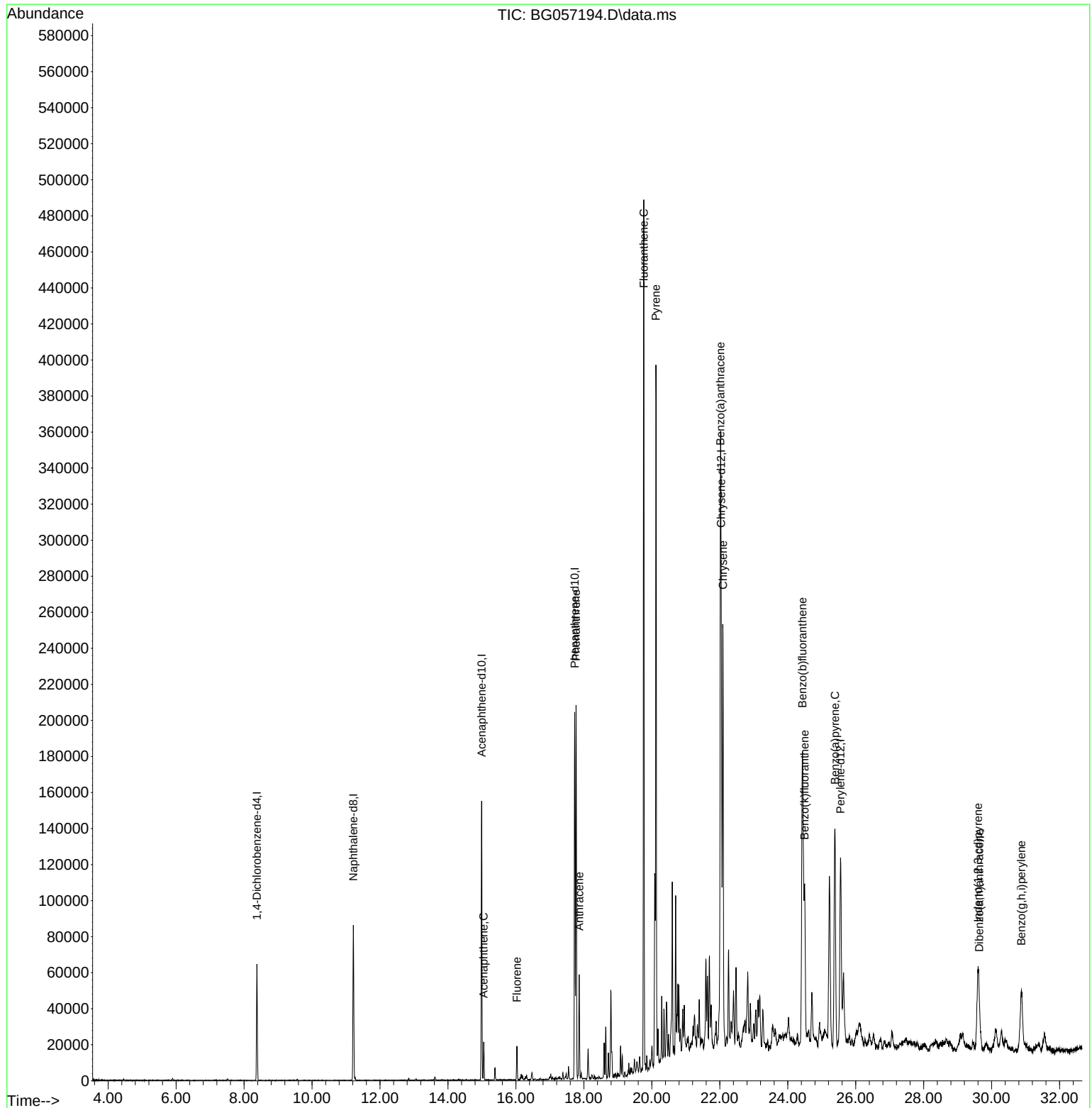
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG042623\
Data File : BG057194.D
Acq On : 26 Apr 2023 16:05
Operator : CG/JU
Sample : 02270-09DL 100X
Misc :
ALS Vial : 9 Sample Multiplier: 1

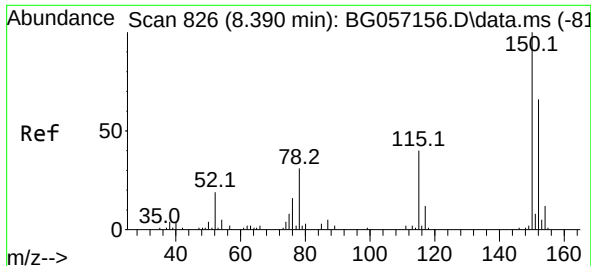
Instrument :
BNA_G
ClientSampleId :
SB-25-10-12-20230411DL

Quant Time: Apr 27 03:06:35 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG042423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 27 03:02:41 2023
Response via : Initial Calibration

Manual Integrations
APPROVED

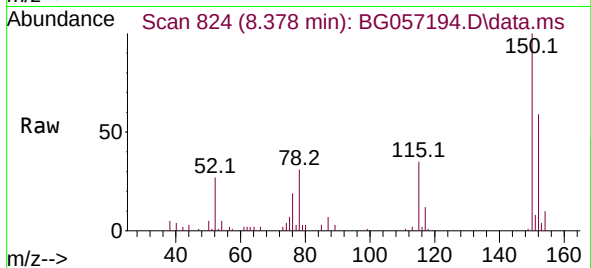
Reviewed By : Christian Giraldo 04/27/2023
Supervised By : Jagrut Upadhyay 04/27/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.378 min Scan# 81
Delta R.T. -0.005 min
Lab File: BG057194.D
Acq: 26 Apr 2023 16:05

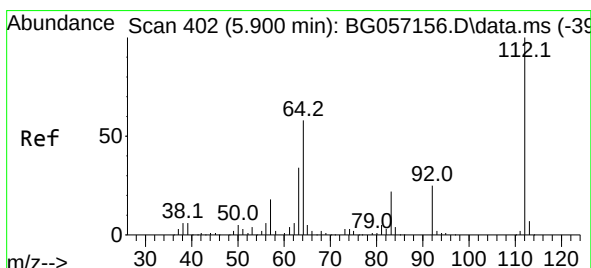
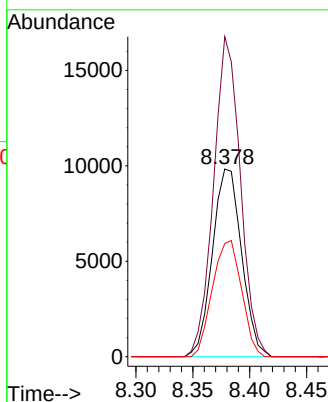
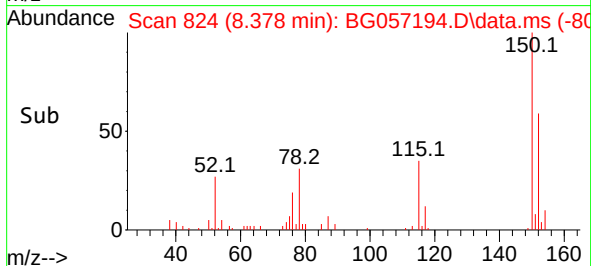
Instrument :
BNA_G
ClientSampleId :
SB-25-10-12-20230411DL



Tgt Ion:152 Resp: 1756
Ion Ratio Lower Upper
152 100
150 170.5 121.4 182.2
115 60.3 48.1 72.1

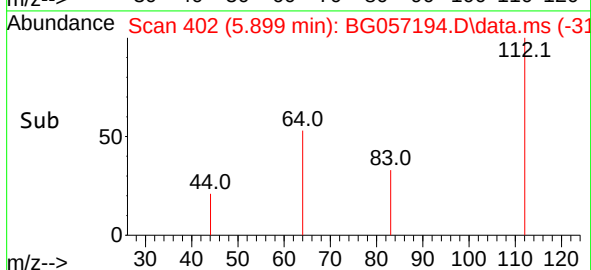
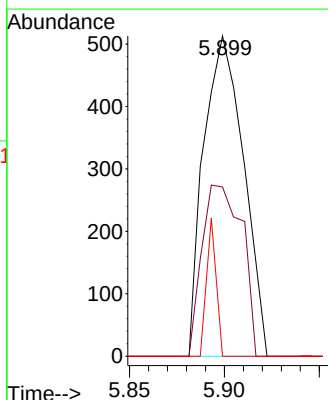
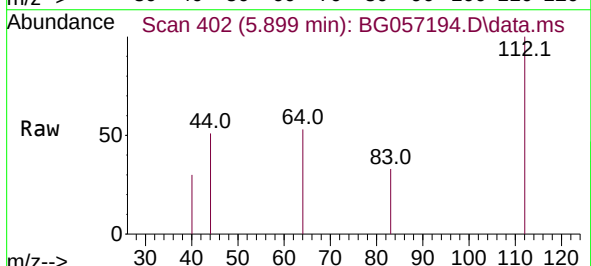
Manual Integrations
APPROVED

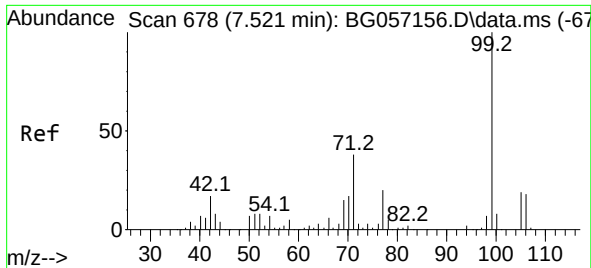
Reviewed By :Christian Giraldo 04/27/2023
Supervised By :Jagrut Upadhyay 04/27/2023



#5
2-Fluorophenol
Concen: 0.773 ng
RT: 5.899 min Scan# 402
Delta R.T. 0.006 min
Lab File: BG057194.D
Acq: 26 Apr 2023 16:05

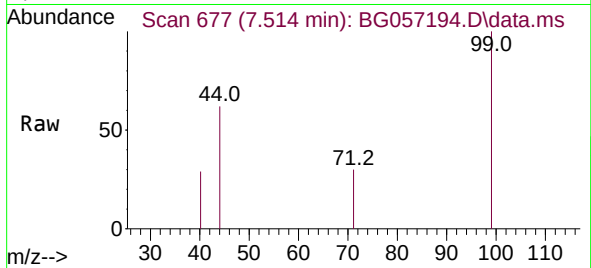
Tgt Ion:112 Resp: 749
Ion Ratio Lower Upper
112 100
64 52.8 46.7 70.1
63 0.0 26.9 40.3#





#7
Phenol-d6
Concen: 0.715 ng
RT: 7.514 min Scan# 61
Delta R.T. -0.005 min
Lab File: BG057194.D
Acq: 26 Apr 2023 16:05

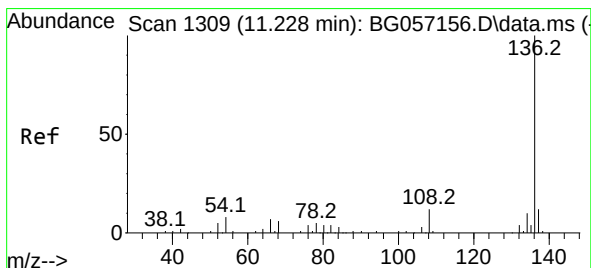
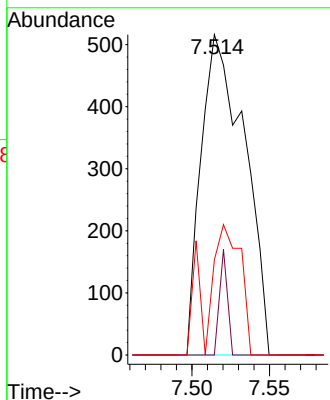
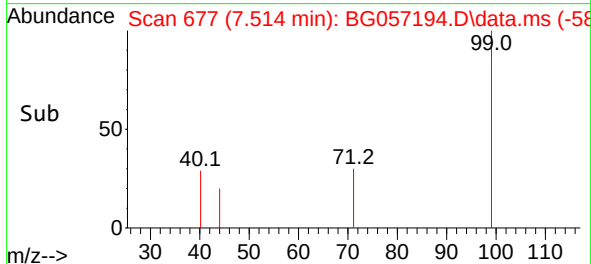
Instrument :
BNA_G
ClientSampleId :
SB-25-10-12-20230411DL



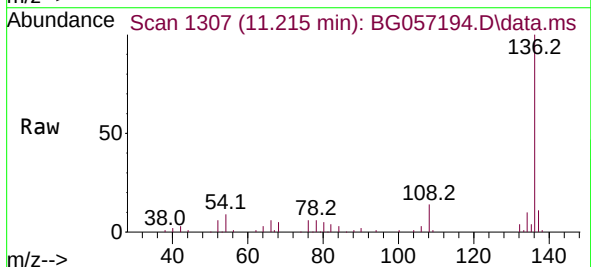
Tgt Ion: 99 Resp: 100
Ion Ratio Lower Upper
99 100
42 0.0 13.4 20.0
71 29.7 30.2 45.2

Manual Integrations
APPROVED

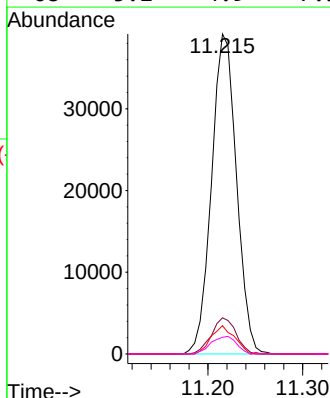
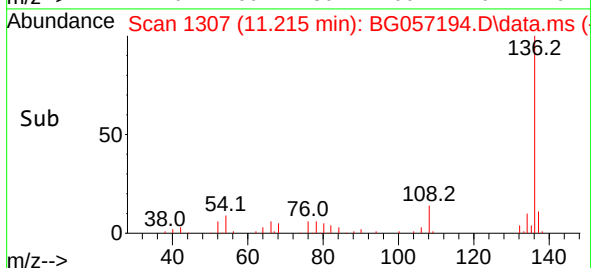
Reviewed By :Christian Giraldo 04/27/2023
Supervised By :Jagrut Upadhyay 04/27/2023

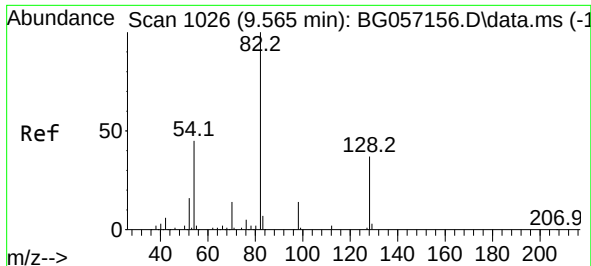


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.215 min Scan# 1307
Delta R.T. -0.005 min
Lab File: BG057194.D
Acq: 26 Apr 2023 16:05



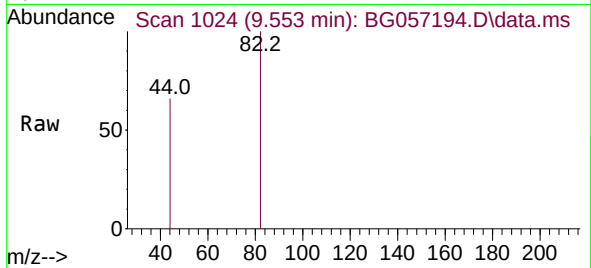
Tgt Ion:136 Resp: 71571
Ion Ratio Lower Upper
136 100
137 11.3 9.5 14.3
54 8.9 6.4 9.6
68 5.2 4.9 7.3





#23
Nitrobenzene-d5
Concen: 0.433 ng
RT: 9.553 min Scan# 1024
Delta R.T. -0.005 min
Lab File: BG057194.D
Acq: 26 Apr 2023 16:05

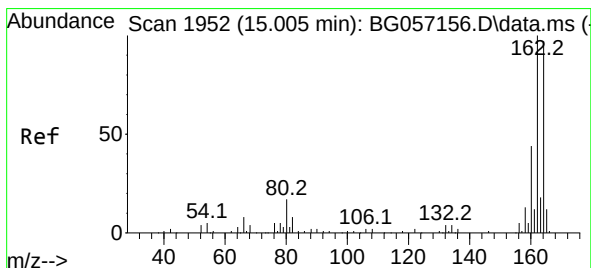
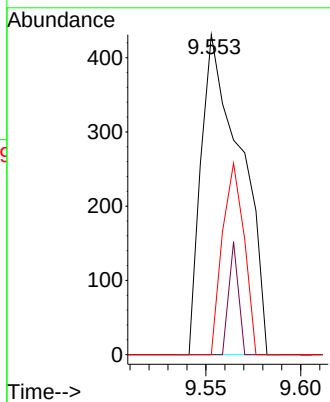
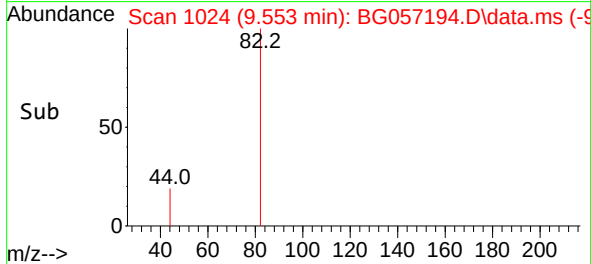
Instrument :
BNA_G
ClientSampleId :
SB-25-10-12-20230411DL



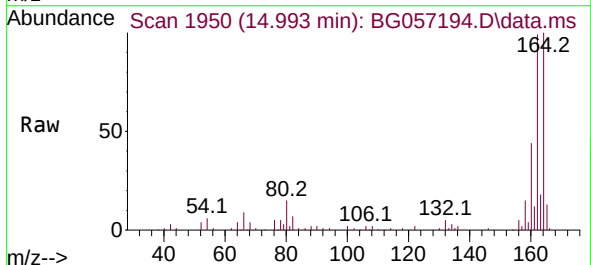
Tgt Ion: 82 Resp: 62
Ion Ratio Lower Upper
82 100
128 0.0 29.4 44.2
54 0.0 36.2 54.2

Manual Integrations
APPROVED

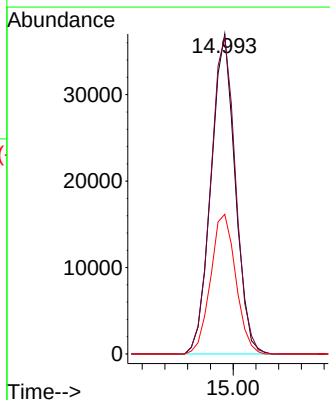
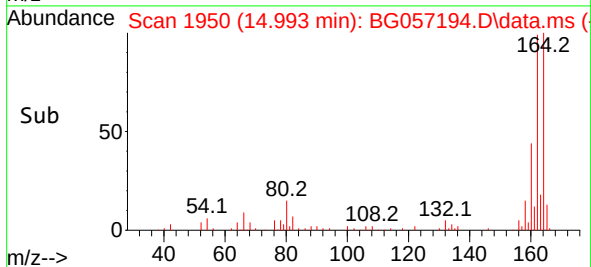
Reviewed By :Christian Giraldo 04/27/2023
Supervised By :Jagrut Upadhyay 04/27/2023

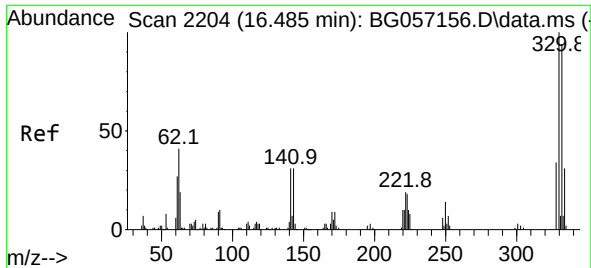


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.993 min Scan# 1950
Delta R.T. 0.001 min
Lab File: BG057194.D
Acq: 26 Apr 2023 16:05



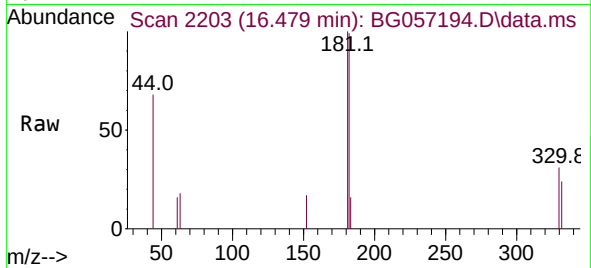
Tgt Ion:164 Resp: 54402
Ion Ratio Lower Upper
164 100
162 99.2 82.4 123.6
160 43.7 36.2 54.2





#42
2,4,6-Tribromophenol
Concen: 0.465 ng
RT: 16.479 min Scan# 21
Delta R.T. 0.001 min
Lab File: BG057194.D
Acq: 26 Apr 2023 16:05

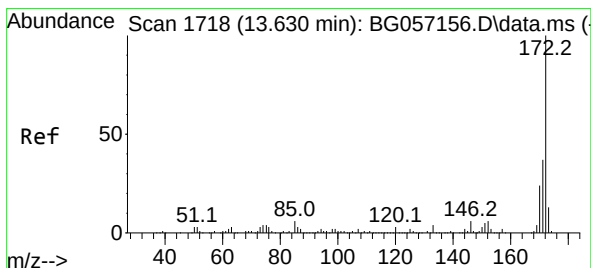
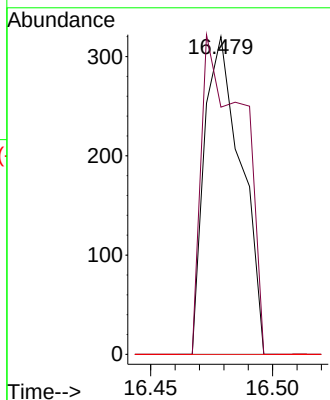
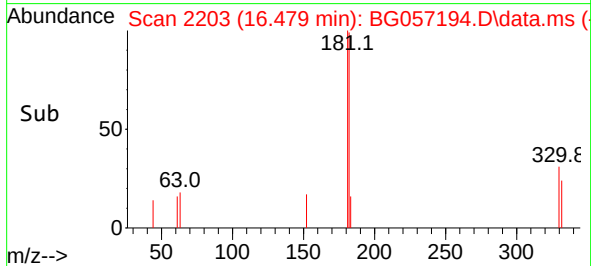
Instrument :
BNA_G
ClientSampleId :
SB-25-10-12-20230411DL



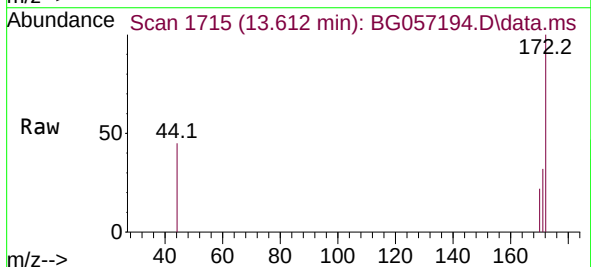
Tgt Ion: 330 Resp: 334
Ion Ratio Lower Upper
330 100
332 113.5 77.6 116.4
141 0.0 26.0 39.0

Manual Integrations
APPROVED

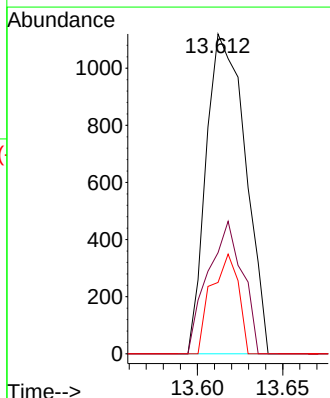
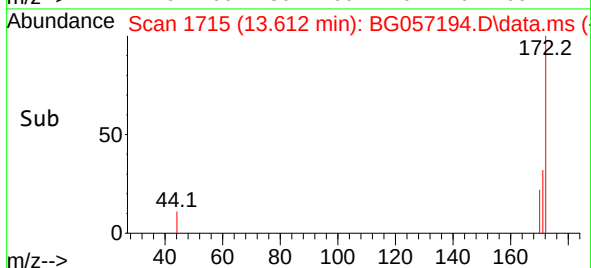
Reviewed By : Christian Giraldo 04/27/2023
Supervised By : Jagrut Upadhyay 04/27/2023

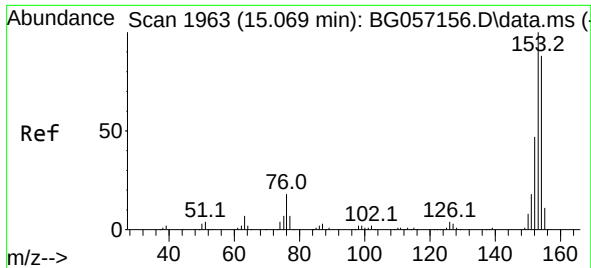


#45
2-Fluorobiphenyl
Concen: 0.442 ng
RT: 13.612 min Scan# 1715
Delta R.T. -0.005 min
Lab File: BG057194.D
Acq: 26 Apr 2023 16:05



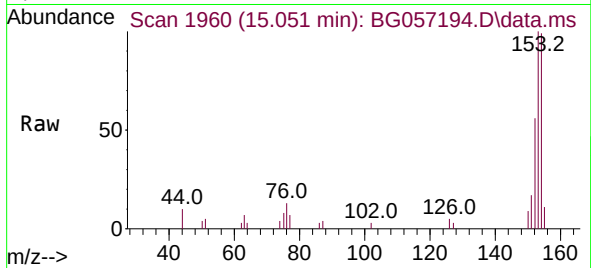
Tgt Ion: 172 Resp: 1790
Ion Ratio Lower Upper
172 100
171 31.6 29.2 43.8
170 22.3 19.4 29.2





#52
Acenaphthene
Concen: 2.678 ng
RT: 15.051 min Scan# 1960
Delta R.T. -0.005 min
Lab File: BG057194.D
Acq: 26 Apr 2023 16:05

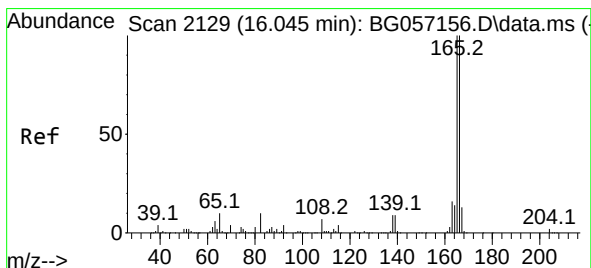
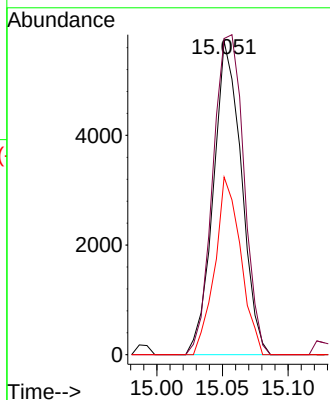
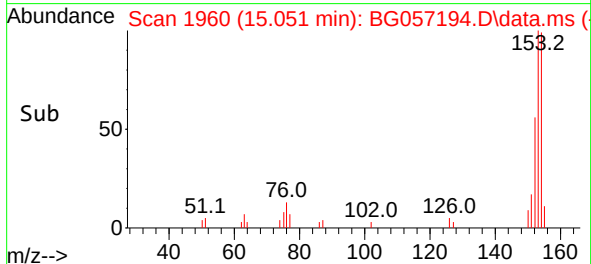
Instrument :
BNA_G
ClientSampleId :
SB-25-10-12-20230411DL



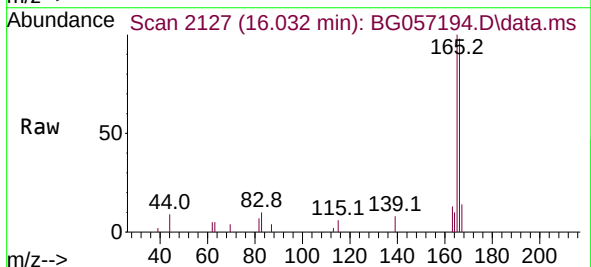
Tgt Ion:154 Resp: 8500
Ion Ratio Lower Upper
154 100
153 100.9 91.0 136.4
152 56.6 43.0 64.6

Manual Integrations
APPROVED

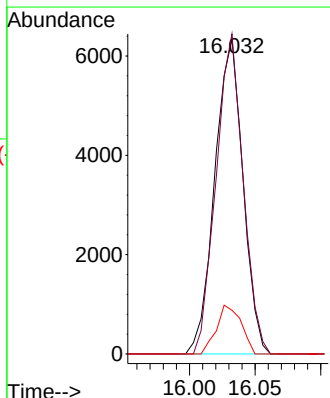
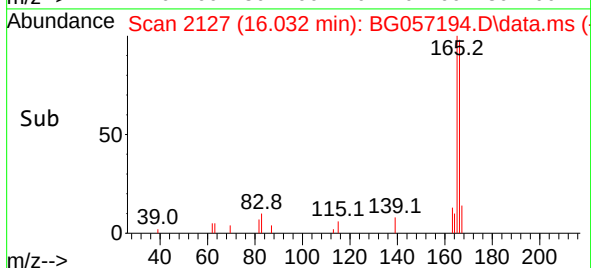
Reviewed By :Christian Giraldo 04/27/2023
Supervised By :Jagrut Upadhyay 04/27/2023

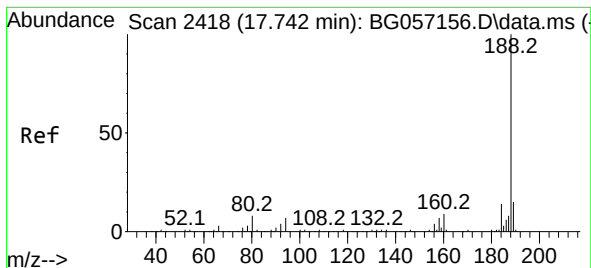


#58
Fluorene
Concen: 2.282 ng
RT: 16.032 min Scan# 2127
Delta R.T. -0.005 min
Lab File: BG057194.D
Acq: 26 Apr 2023 16:05



Tgt Ion:166 Resp: 9449
Ion Ratio Lower Upper
166 100
165 101.6 79.8 119.6
167 13.9 10.7 16.1





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.730 min Scan# 2418

Delta R.T. -0.005 min

Lab File: BG057194.D

Acq: 26 Apr 2023 16:05

Instrument :

BNA_G

ClientSampleId :

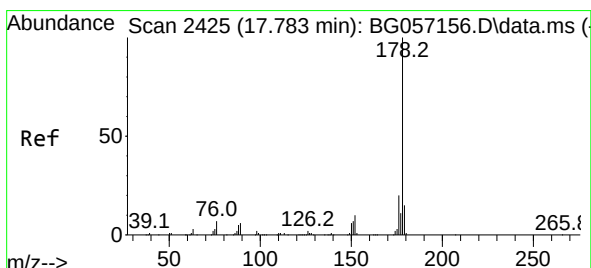
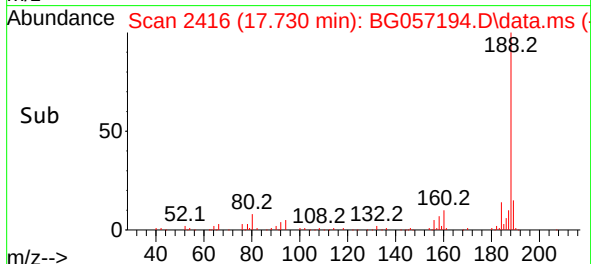
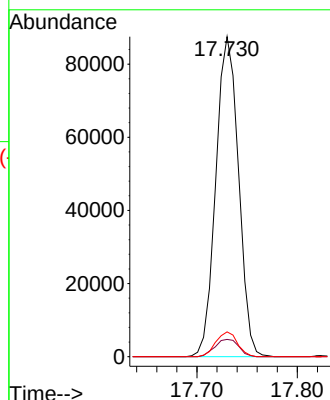
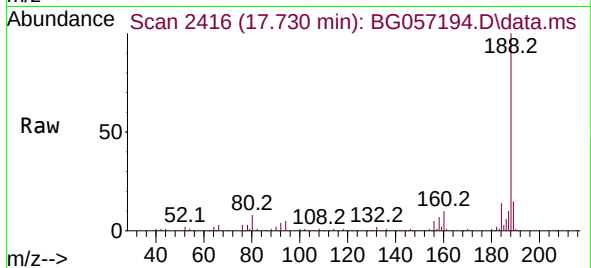
SB-25-10-12-20230411DL

Tgt Ion:188 Resp: 137450
 Ion Ratio Lower Upper
 188 100
 94 5.4 5.4 8.0
 80 7.8 6.2 9.2

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 04/27/2023
 Supervised By :Jagrut Upadhyay 04/27/2023



#71

Phenanthrene

Concen: 18.668 ng

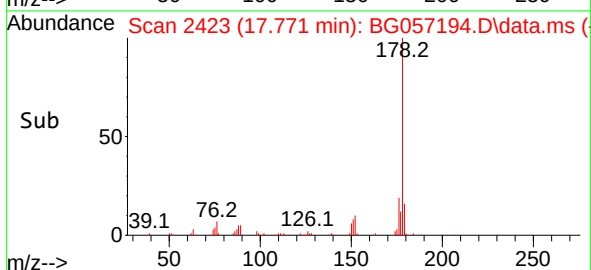
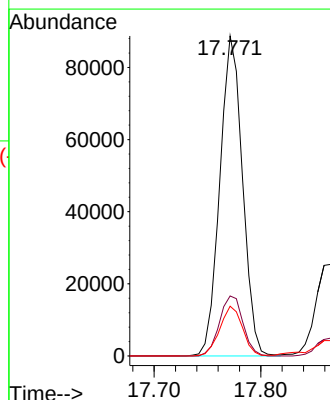
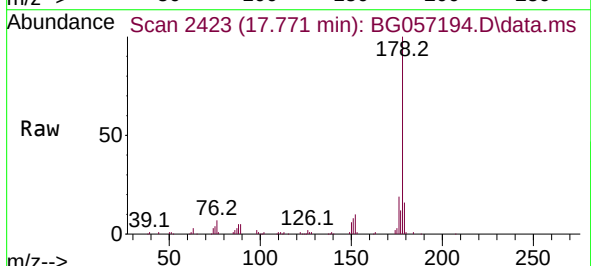
RT: 17.771 min Scan# 2423

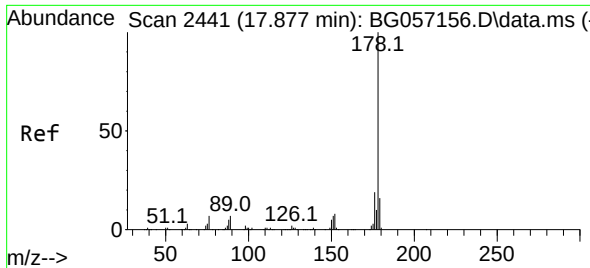
Delta R.T. -0.005 min

Lab File: BG057194.D

Acq: 26 Apr 2023 16:05

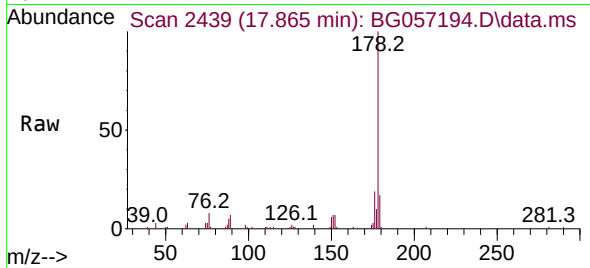
Tgt Ion:178 Resp: 131000
 Ion Ratio Lower Upper
 178 100
 176 18.7 15.6 23.4
 179 15.6 12.4 18.6





#72
 Anthracene
 Concen: 5.643 ng
 RT: 17.865 min Scan# 2441
 Delta R.T. 0.001 min
 Lab File: BG057194.D
 Acq: 26 Apr 2023 16:05

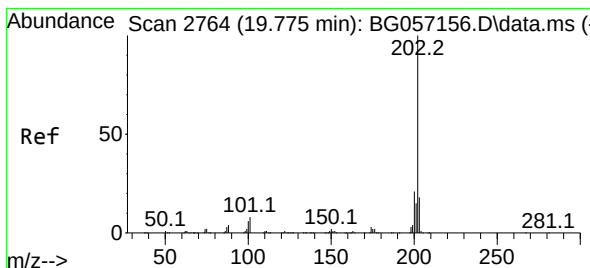
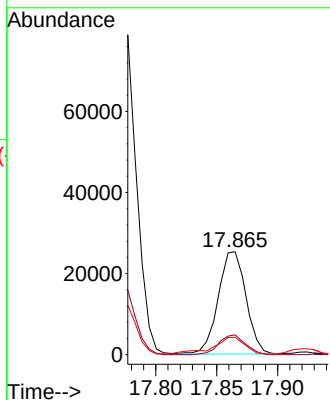
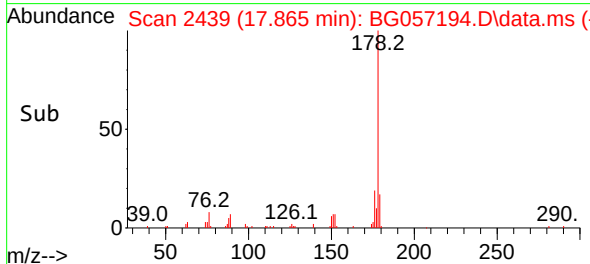
Instrument :
 BNA_G
 ClientSampleId :
 SB-25-10-12-20230411DL



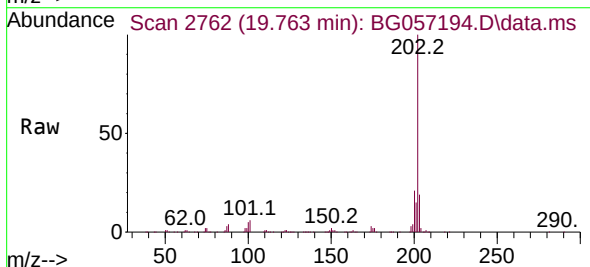
Tgt Ion:178 Resp: 4004
 Ion Ratio Lower Upper
 178 100
 176 19.3 14.9 22.3
 179 16.9 12.5 18.7

Manual Integrations
 APPROVED

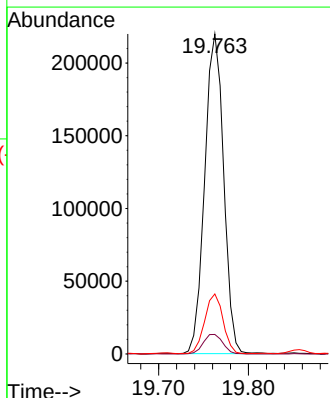
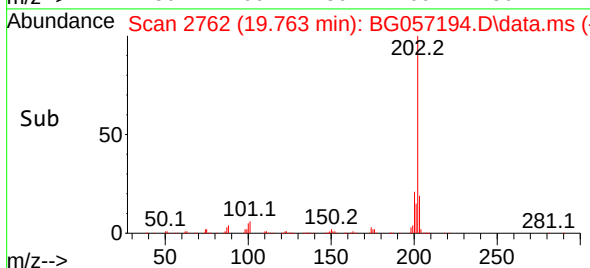
Reviewed By :Christian Giraldo 04/27/2023
 Supervised By :Jagrut Upadhyay 04/27/2023

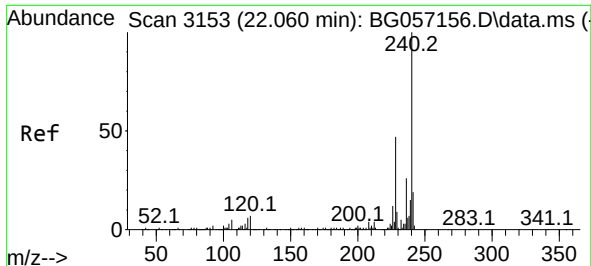


#75
 Fluoranthene
 Concen: 36.918 ng
 RT: 19.763 min Scan# 2762
 Delta R.T. -0.005 min
 Lab File: BG057194.D
 Acq: 26 Apr 2023 16:05



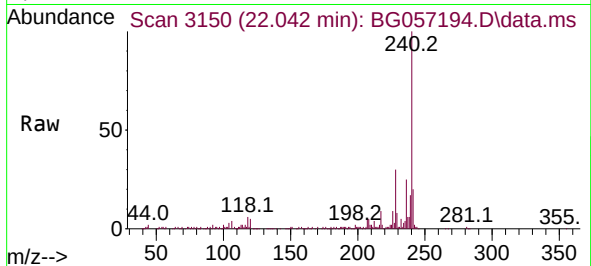
Tgt Ion:202 Resp: 321855
 Ion Ratio Lower Upper
 202 100
 101 6.1 0.0 27.6
 203 18.7 0.0 38.3





#76
Chrysene-d12
Concen: 20.000 ng
RT: 22.042 min Scan# 3153
Delta R.T. -0.005 min
Lab File: BG057194.D
Acq: 26 Apr 2023 16:05

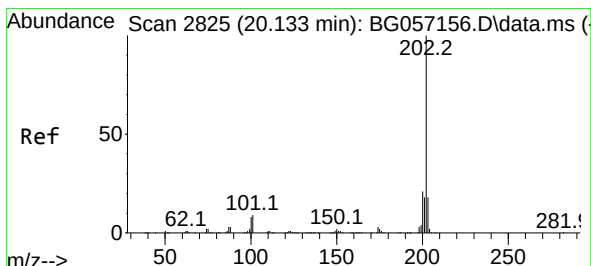
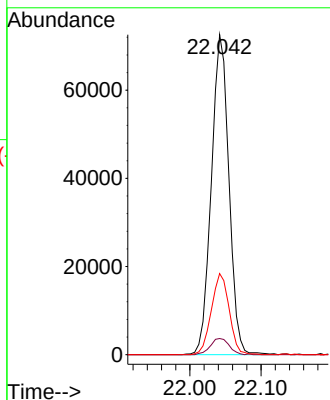
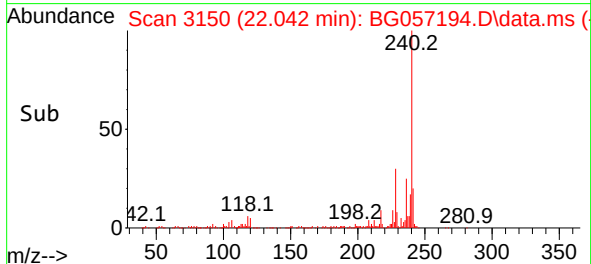
Instrument :
BNA_G
ClientSampleId :
SB-25-10-12-20230411DL



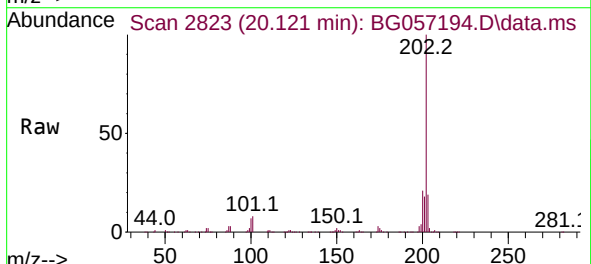
Tgt Ion:240 Resp: 124293
Ion Ratio Lower Upper
240 100
120 5.0 5.5 8.3
236 25.4 20.8 31.2

Manual Integrations
APPROVED

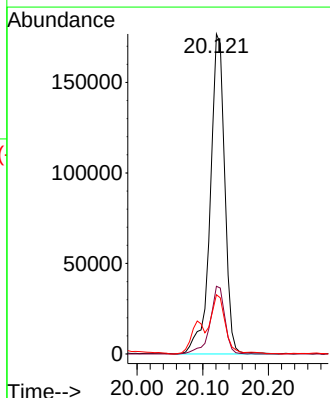
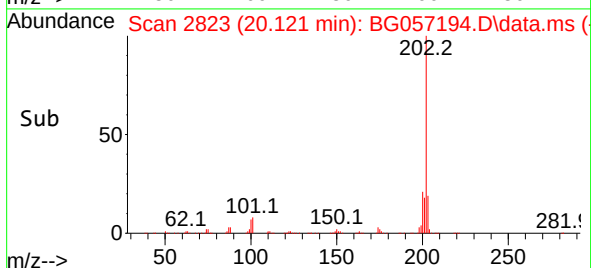
Reviewed By :Christian Giraldo 04/27/2023
Supervised By :Jagrut Upadhyay 04/27/2023

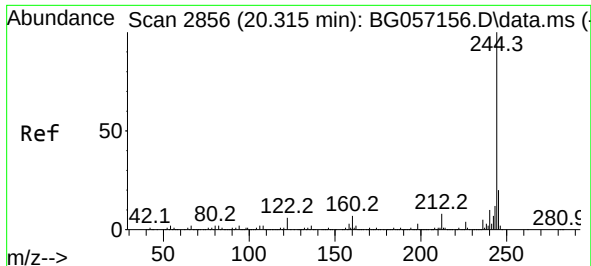


#78
Pyrene
Concen: 32.191 ng
RT: 20.121 min Scan# 2823
Delta R.T. -0.005 min
Lab File: BG057194.D
Acq: 26 Apr 2023 16:05



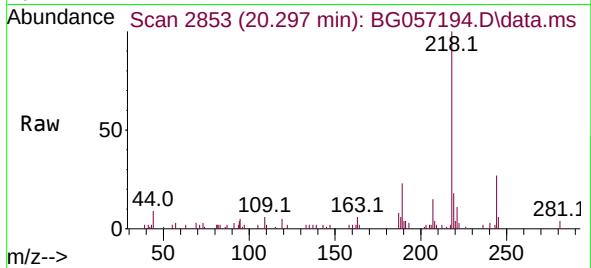
Tgt Ion:202 Resp: 271657
Ion Ratio Lower Upper
202 100
200 21.1 17.0 25.4
203 18.5 14.7 22.1





#79
 Terphenyl-d14
 Concen: 0.503 ng
 RT: 20.297 min Scan# 21
 Delta R.T. -0.005 min
 Lab File: BG057194.D
 Acq: 26 Apr 2023 16:05

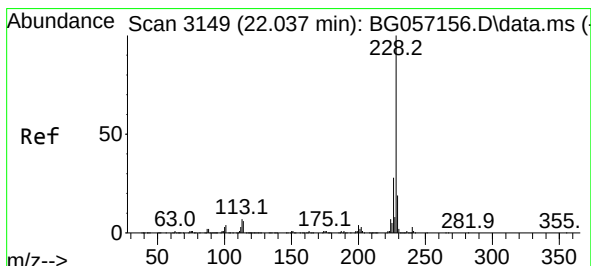
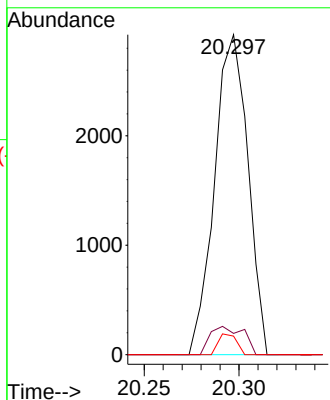
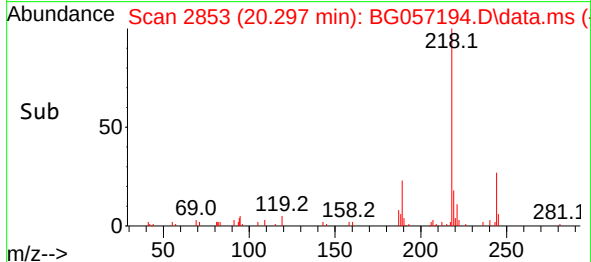
Instrument :
 BNA_G
 ClientSampleId :
 SB-25-10-12-20230411DL



Tgt Ion:244 Resp: 357
 Ion Ratio Lower Upper
 244 100
 212 6.6 6.0 9.0
 122 5.8 5.0 7.4

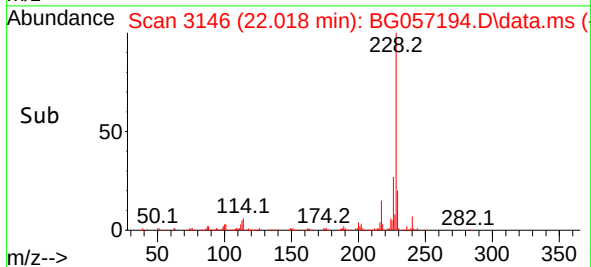
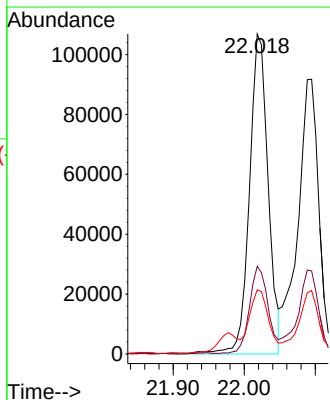
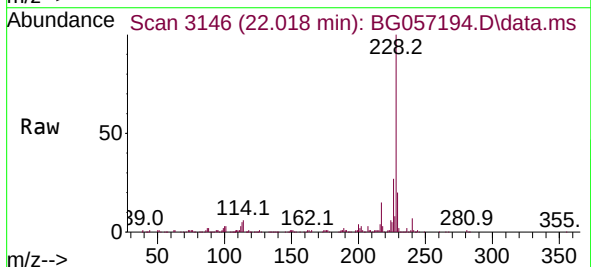
Manual Integrations
 APPROVED

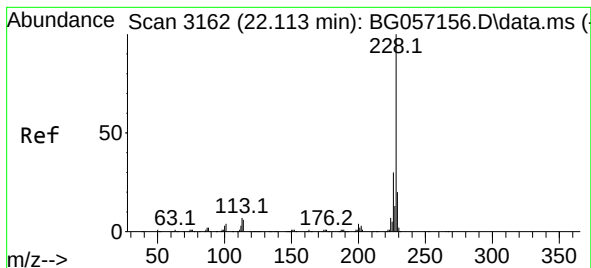
Reviewed By :Christian Giraldo 04/27/2023
 Supervised By :Jagrut Upadhyay 04/27/2023



#81
 Benzo(a)anthracene
 Concen: 22.785 ng
 RT: 22.018 min Scan# 3146
 Delta R.T. -0.005 min
 Lab File: BG057194.D
 Acq: 26 Apr 2023 16:05

Tgt Ion:228 Resp: 194713
 Ion Ratio Lower Upper
 228 100
 226 27.4 22.2 33.4
 229 20.1 15.6 23.4





#83

Chrysene

Concen: 22.717 ng m

RT: 22.095 min Scan# 31

Delta R.T. -0.005 min

Lab File: BG057194.D

Acq: 26 Apr 2023 16:05

Instrument :

BNA_G

ClientSampleId :

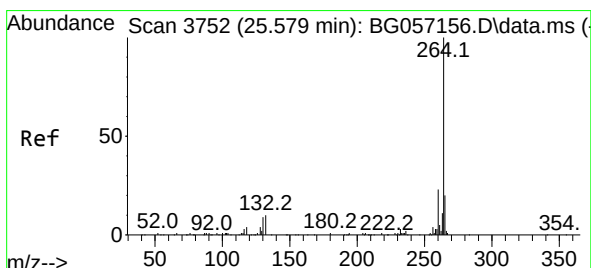
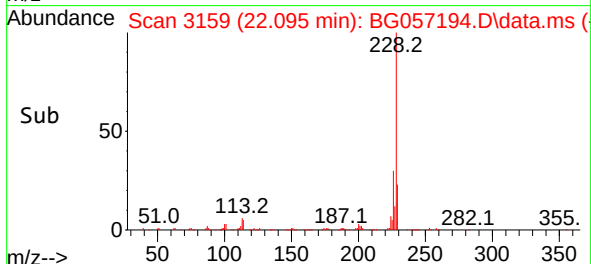
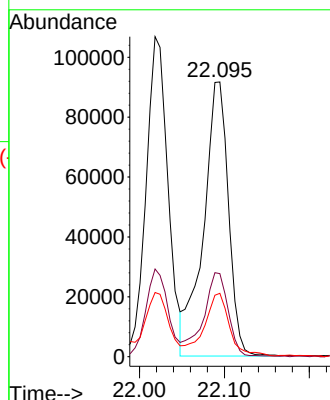
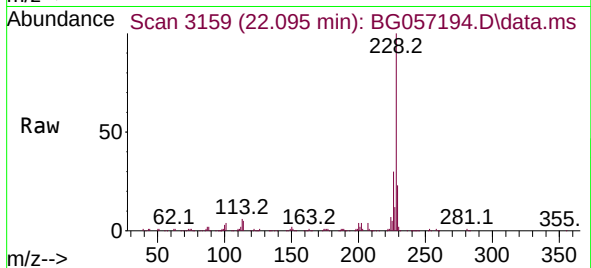
SB-25-10-12-20230411DL

Tgt Ion:228 Resp: 187218
 Ion Ratio Lower Upper
 228 100
 226 30.2 24.0 36.0
 229 23.1 15.8 23.6

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 04/27/2023
 Supervised By :Jagrut Upadhyay 04/27/2023



#86

Perylene-d12

Concen: 20.000 ng

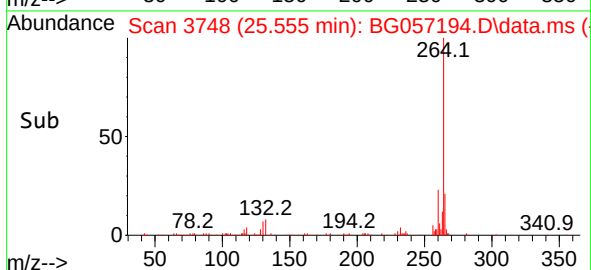
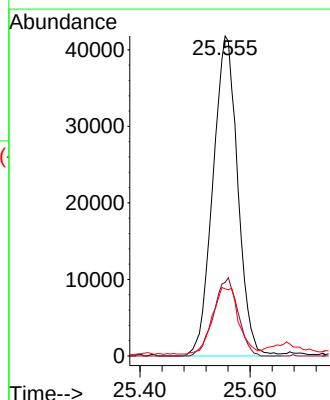
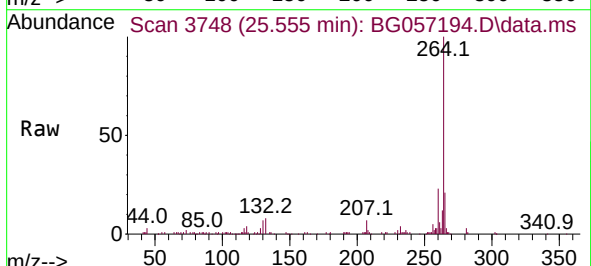
RT: 25.555 min Scan# 3748

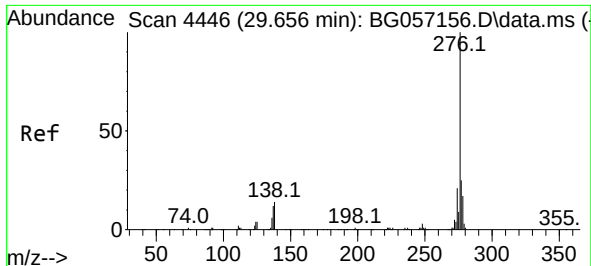
Delta R.T. -0.005 min

Lab File: BG057194.D

Acq: 26 Apr 2023 16:05

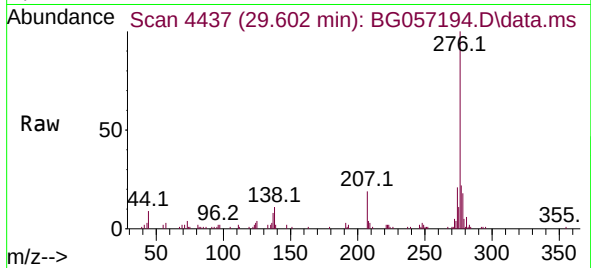
Tgt Ion:264 Resp: 130842
 Ion Ratio Lower Upper
 264 100
 260 23.0 18.8 28.2
 265 21.0 16.4 24.6





#87
Indeno(1,2,3-cd)pyrene
Concen: 8.826 ng
RT: 29.602 min Scan# 4446
Delta R.T. -0.023 min
Lab File: BG057194.D
Acq: 26 Apr 2023 16:05

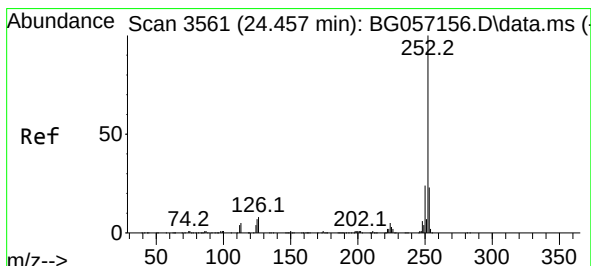
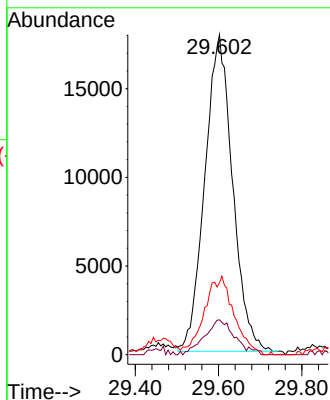
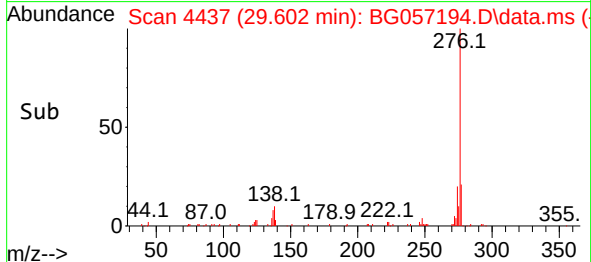
Instrument :
BNA_G
ClientSampleId :
SB-25-10-12-20230411DL



Tgt Ion:276 Resp: 82720
Ion Ratio Lower Upper
276 100
138 11.4 13.8 20.6
277 11.0 20.4 30.6

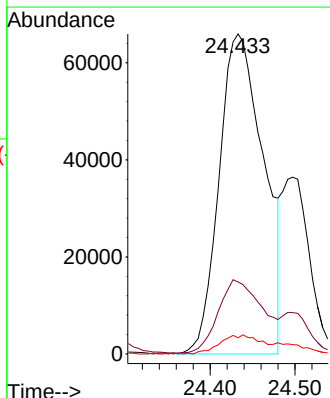
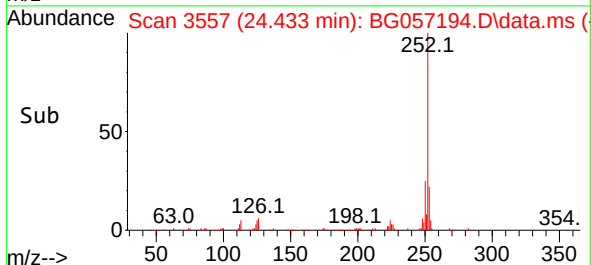
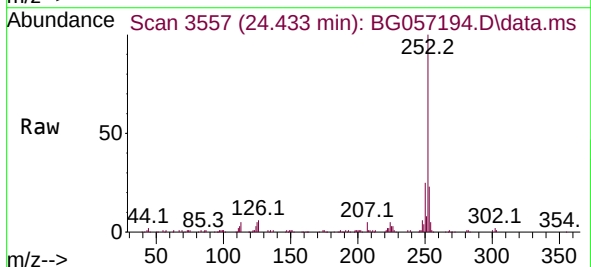
Manual Integrations
APPROVED

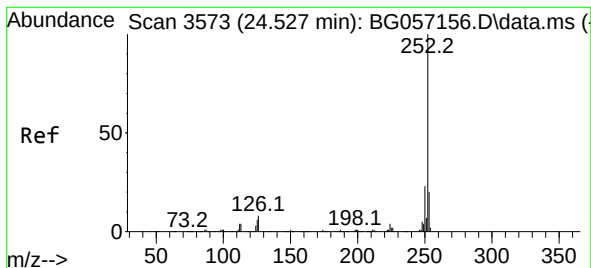
Reviewed By :Christian Giraldo 04/27/2023
Supervised By :Jagrut Upadhyay 04/27/2023



#88
Benzo(b)fluoranthene
Concen: 29.356 ng m
RT: 24.433 min Scan# 3557
Delta R.T. -0.005 min
Lab File: BG057194.D
Acq: 26 Apr 2023 16:05

Tgt Ion:252 Resp: 240772
Ion Ratio Lower Upper
252 100
253 22.5 18.2 27.2
125 5.0 5.3 7.9#





#89

Benzo(k)fluoranthene

Concen: 9.666 ng m

RT: 24.497 min Scan# 3

Delta R.T. -0.011 min

Lab File: BG057194.D

Acq: 26 Apr 2023 16:05

Instrument :

BNA_G

ClientSampleId :

SB-25-10-12-20230411DL

Tgt Ion:252 Resp: 8200

Ion Ratio Lower Upper

252 100

253 23.4 16.7 25.1

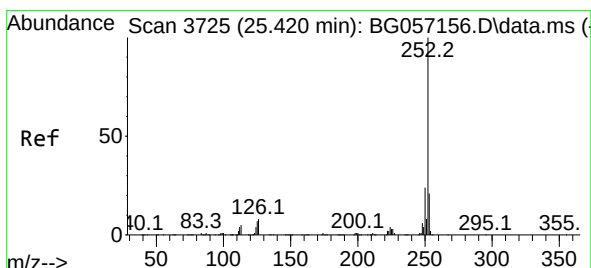
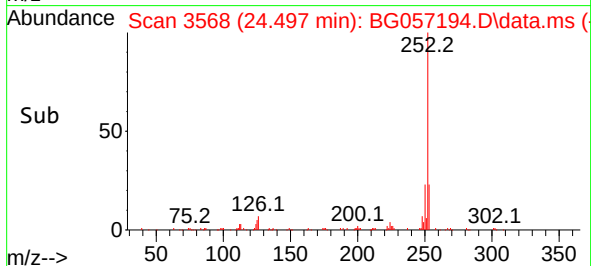
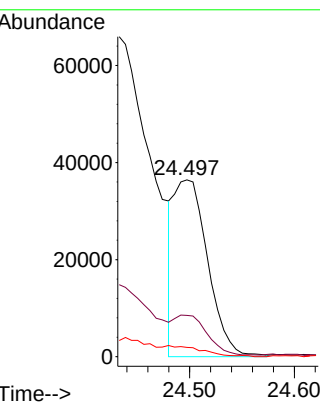
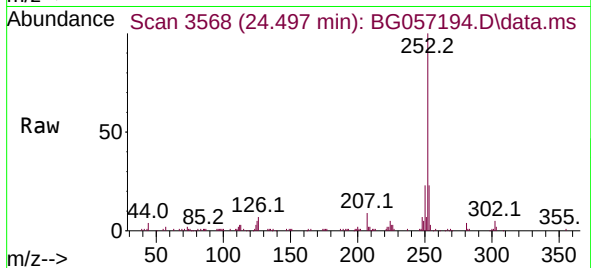
125 5.3 5.0 7.6

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 04/27/2023

Supervised By :Jagrut Upadhyay 04/27/2023



#90

Benzo(a)pyrene

Concen: 19.073 ng

RT: 25.390 min Scan# 3720

Delta R.T. -0.005 min

Lab File: BG057194.D

Acq: 26 Apr 2023 16:05

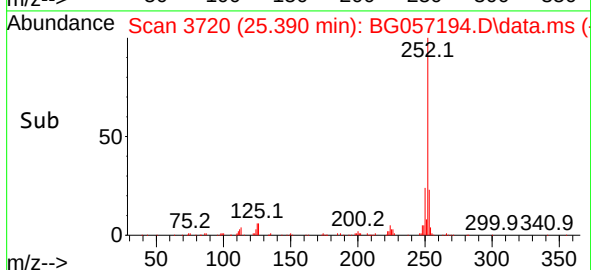
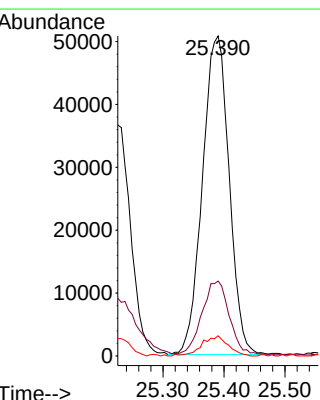
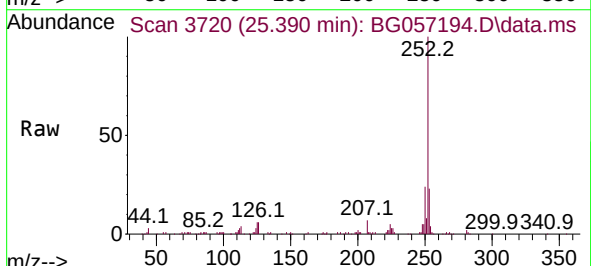
Tgt Ion:252 Resp: 154082

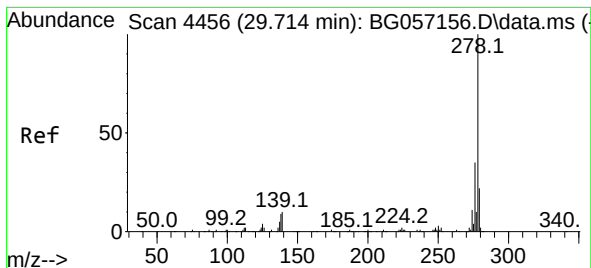
Ion Ratio Lower Upper

252 100

253 23.4 17.0 25.6

125 6.3 5.8 8.8





#91

Dibenzo(a,h)anthracene

Concen: 3.598 ng m

RT: 29.637 min Scan# 44

Delta R.T. -0.052 min

Lab File: BG057194.D

Acq: 26 Apr 2023 16:05

Instrument :

BNA_G

ClientSampleId :

SB-25-10-12-20230411DL

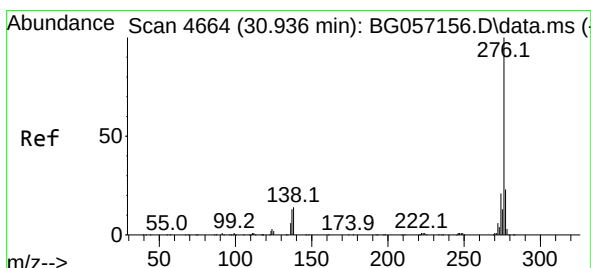
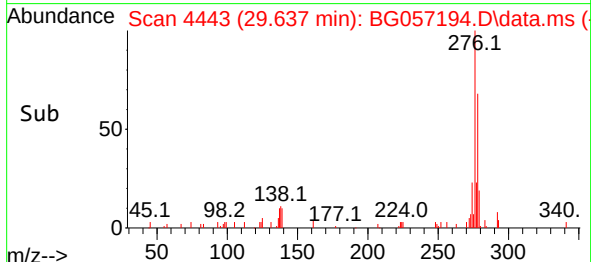
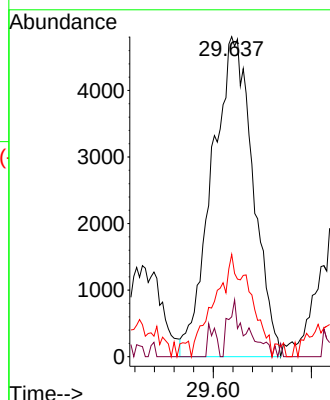
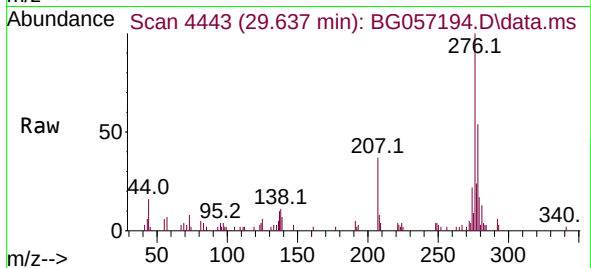
Tgt Ion:	278	Resp:	2800
Ion Ratio	Lower	Upper	
278	100		
139	12.5	7.9	11.9
279	32.0	17.7	26.5

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 04/27/2023

Supervised By :Jagrut Upadhyay 04/27/2023



#92

Benzo(g,h,i)perylene

Concen: 9.964 ng

RT: 30.877 min Scan# 4654

Delta R.T. -0.023 min

Lab File: BG057194.D

Acq: 26 Apr 2023 16:05

Tgt Ion:	276	Resp:	76718
Ion Ratio	Lower	Upper	
276	100		
277	25.1	18.5	27.7
138	10.7	11.5	17.3

