

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG021323\
 Data File : BG056627.D
 Acq On : 13 Feb 2023 20:09
 Operator : CG/JU
 Sample : 01529-02
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SB-06-5.0-7.0

Quant Time: Feb 14 02:09:00 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG012723.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 10 22:46:08 2023
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 02/14/2023
 Supervised By : Jagrut Upadhyay 02/14/2023

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.212	152	41053	20.000	ng	# 0.00
21) Naphthalene-d8	11.044	136	149083	20.000	ng	0.00
39) Acenaphthene-d10	14.840	164	103626	20.000	ng	0.00
64) Phenanthrene-d10	17.584	188	230620	20.000	ng	0.00
76) Chrysene-d12	21.867	240	218083	20.000	ng	0.00
86) Perylene-d12	25.263	264	224726	20.000	ng	0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.733	112	120067	53.802	ng	0.00
7) Phenol-d6	7.372	99	176472	53.370	ng	0.00
23) Nitrobenzene-d5	9.387	82	95866	36.515	ng	0.00
42) 2,4,6-Tribromophenol	16.326	330	64405	46.750	ng	0.00
45) 2-Fluorobiphenyl	13.465	172	302179	40.429	ng	0.00
79) Terphenyl-d14	20.157	244	464933	37.444	ng	0.00
Target Compounds						Qvalue
52) Acenaphthene	14.904	154	21174	3.736	ng	95
58) Fluorene	15.886	166	25774	3.186	ng	95
71) Phenanthrene	17.625	178	475741	39.414	ng	98
72) Anthracene	17.713	178	85412	6.893	ng	98
73) Carbazole	17.983	167	42378	4.016	ng	97
75) Fluoranthene	19.622	202	700255	45.966	ng	99
78) Pyrene	19.987	202	647865	41.769	ng	98
81) Benzo(a)anthracene	21.843	228	363022	23.810	ng	97
83) Chrysene	21.914	228	352763	24.628	ng	97
84) Bis(2-ethylhexyl)phtha...	21.702	149	24315	3.580	ng	# 84
87) Indeno(1,2,3-cd)pyrene	29.188	276	134821	8.196	ng	# 72
88) Benzo(b)fluoranthene	24.182	252	423952	30.394	ng	# 97
89) Benzo(k)fluoranthene	24.246	252	176490m	12.532	ng	
90) Benzo(a)pyrene	25.104	252	335402	24.410	ng	97
91) Dibenzo(a,h)anthracene	29.199	278	37284	2.700	ng	# 59
92) Benzo(g,h,i)perylene	30.410	276	135631	10.180	ng	# 86

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

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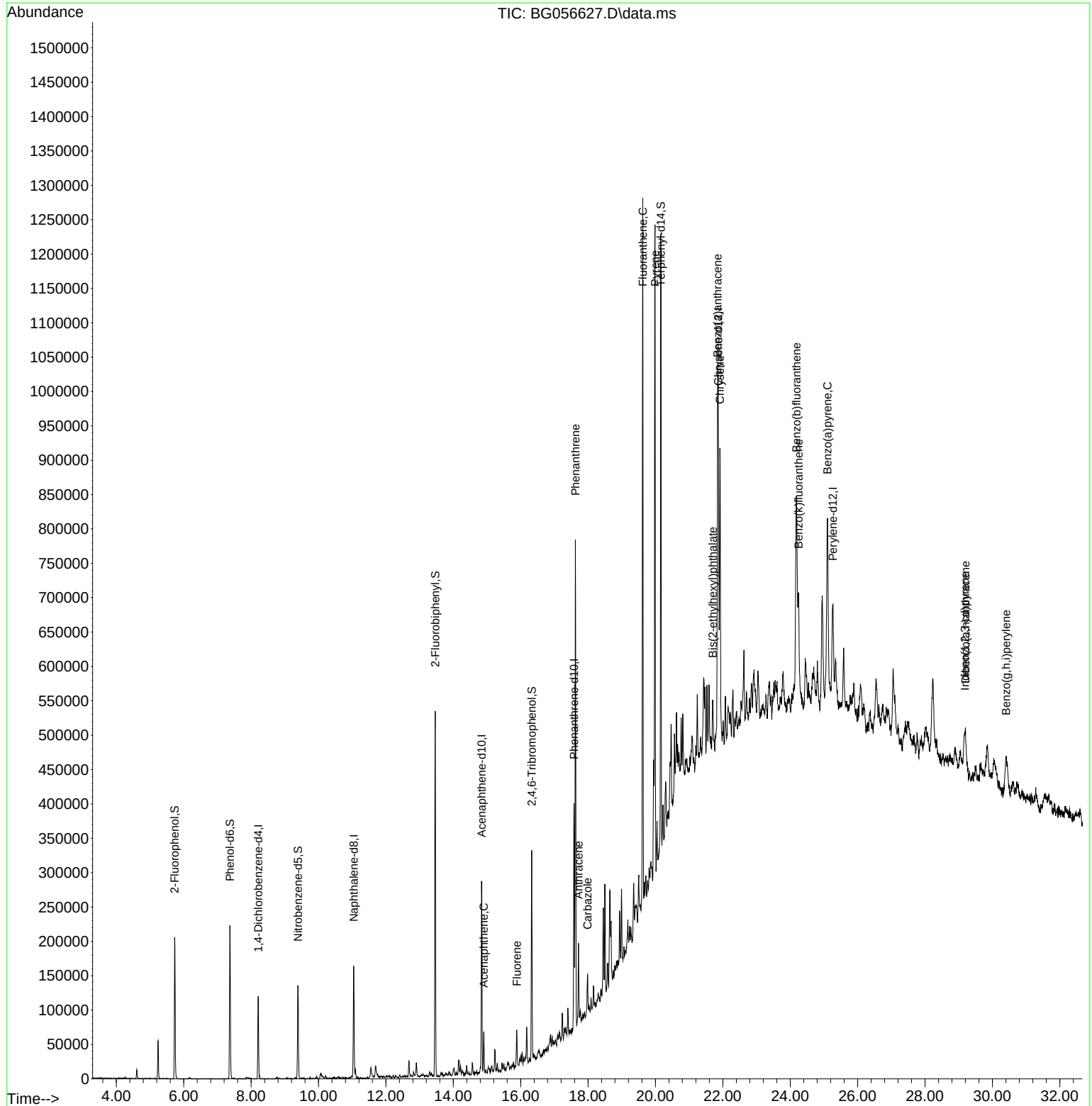
SB-06-5.0-7.0

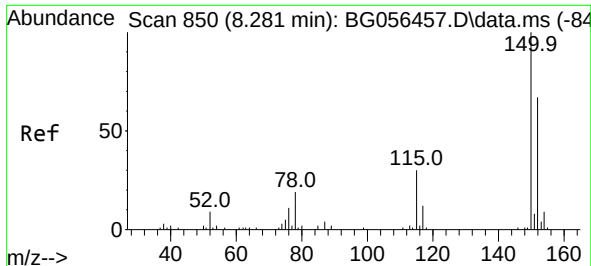
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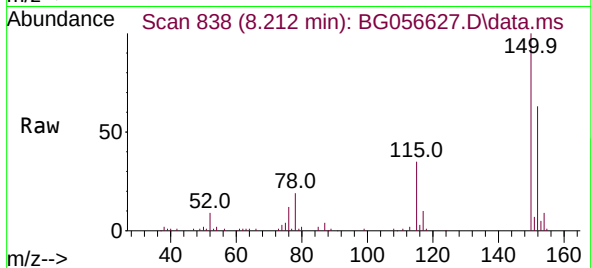
Reviewed By : Christian Giraldo 02/14/2023
Supervised By : Jagrut Upadhyay 02/14/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.212 min Scan# 84
Delta R.T. 0.005 min
Lab File: BG056627.D
Acq: 13 Feb 2023 20:09

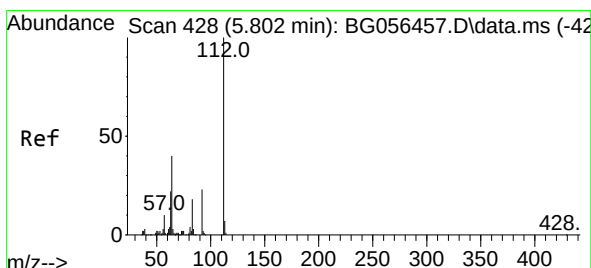
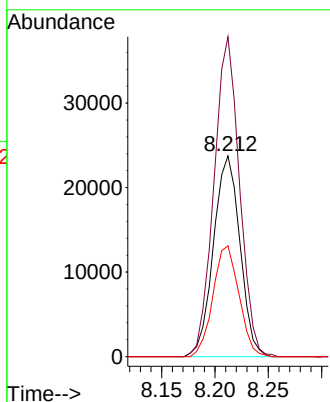
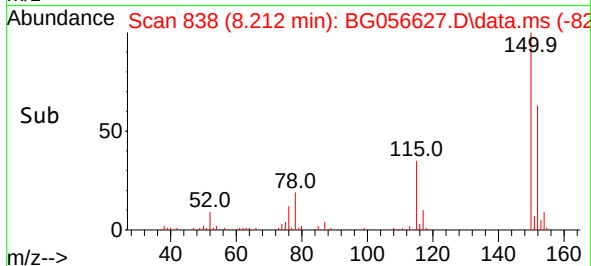
Instrument :
BNA_G
ClientSampleId :
SB-06-5.0-7.0



Tgt Ion:152 Resp: 41053
Ion Ratio Lower Upper
152 100
150 159.4 120.2 180.4
115 55.2 36.3 54.5

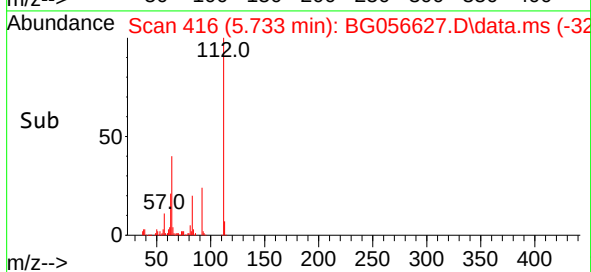
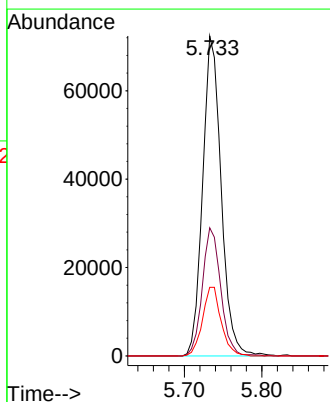
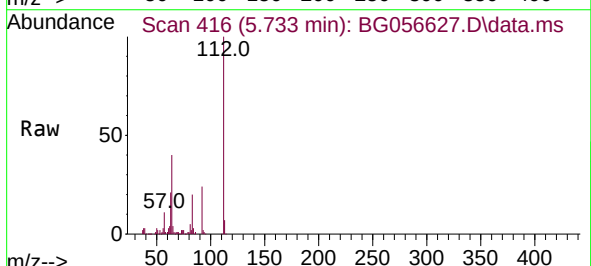
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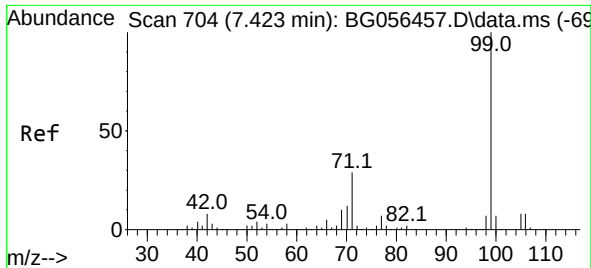
Reviewed By :Christian Giraldo 02/14/2023
Supervised By :Jagrut Upadhyay 02/14/2023



#5
2-Fluorophenol
Concen: 53.802 ng
RT: 5.733 min Scan# 416
Delta R.T. 0.005 min
Lab File: BG056627.D
Acq: 13 Feb 2023 20:09

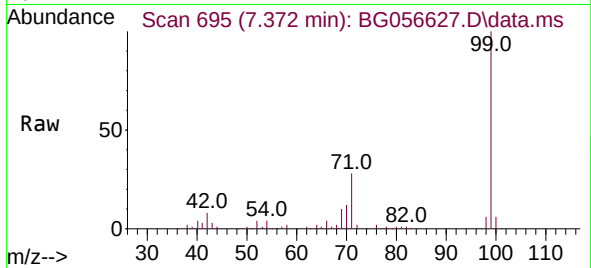
Tgt Ion:112 Resp: 120067
Ion Ratio Lower Upper
112 100
64 40.0 31.9 47.9
63 21.4 17.4 26.0





#7
Phenol-d6
Concen: 53.370 ng
RT: 7.372 min Scan# 69
Delta R.T. 0.005 min
Lab File: BG056627.D
Acq: 13 Feb 2023 20:09

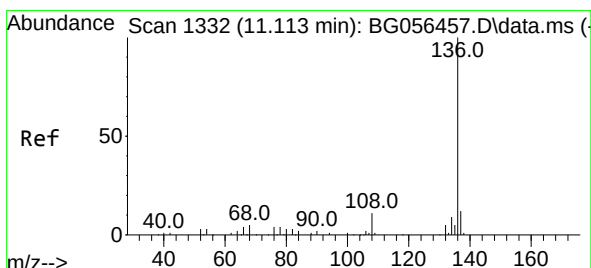
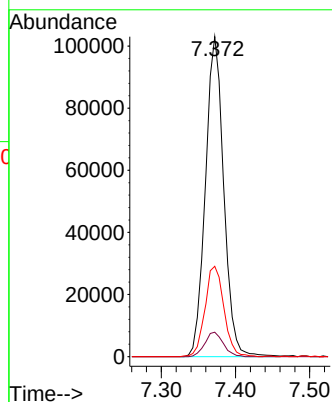
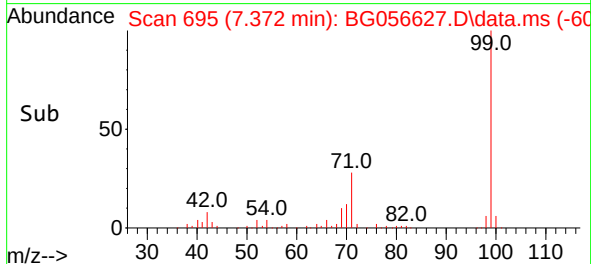
Instrument :
BNA_G
ClientSampleId :
SB-06-5.0-7.0



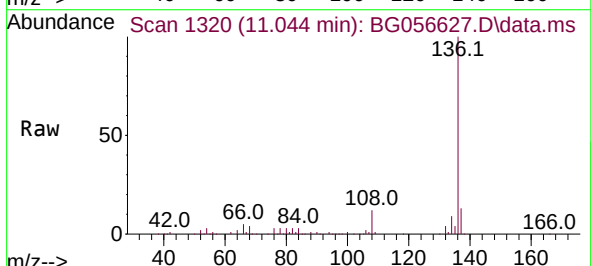
Tgt Ion: 99 Resp: 176472
Ion Ratio Lower Upper
99 100
42 7.6 6.6 10.0
71 28.2 23.4 35.0

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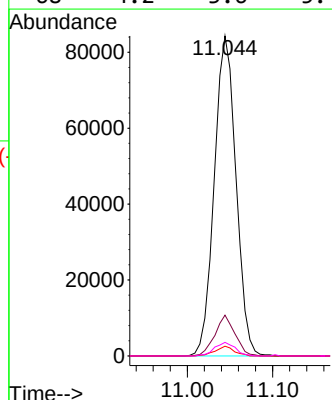
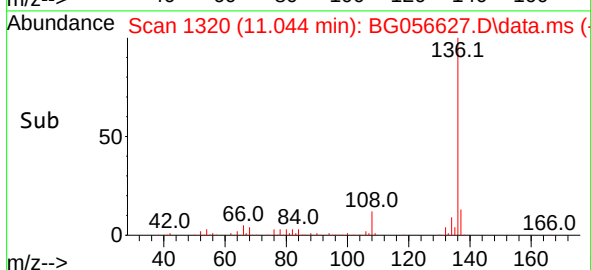
Reviewed By :Christian Giraldo 02/14/2023
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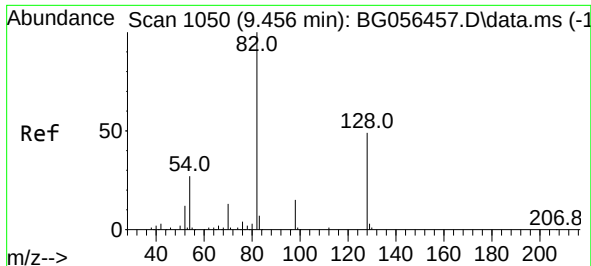


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.044 min Scan# 1320
Delta R.T. -0.001 min
Lab File: BG056627.D
Acq: 13 Feb 2023 20:09



Tgt Ion:136 Resp: 149083
Ion Ratio Lower Upper
136 100
137 12.7 9.4 14.0
54 3.0 2.2 3.4
68 4.2 3.6 5.4





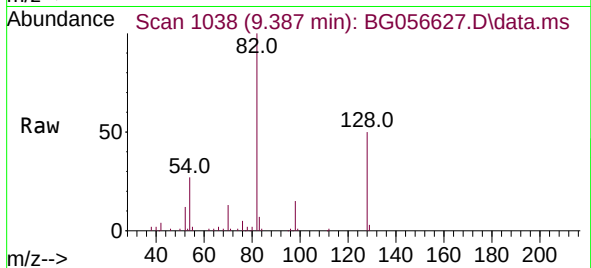
#23
Nitrobenzene-d5
Concen: 36.515 ng
RT: 9.387 min Scan# 1050
Delta R.T. -0.001 min
Lab File: BG056627.D
Acq: 13 Feb 2023 20:09

Instrument :

BNA_G

ClientSampleId :

SB-06-5.0-7.0

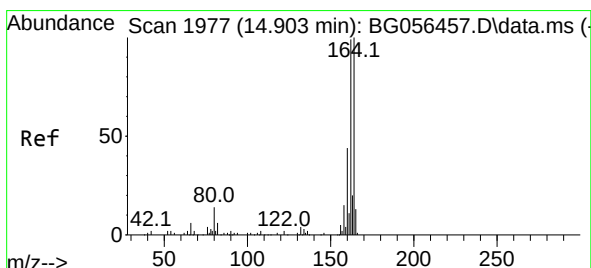
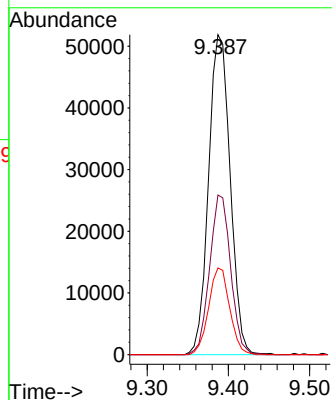
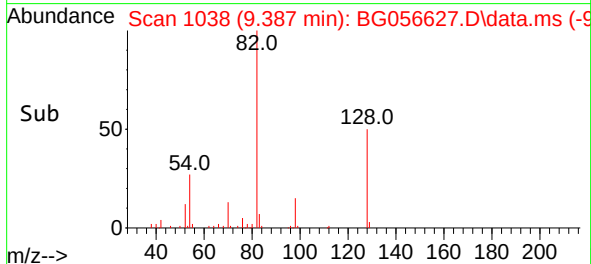


Tgt Ion: 82 Resp: 95866
Ion Ratio Lower Upper
82 100
128 49.9 39.4 59.2
54 27.1 21.4 32.2

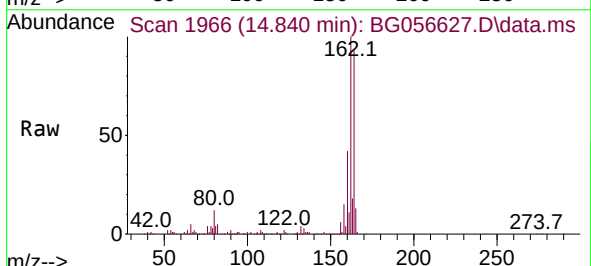
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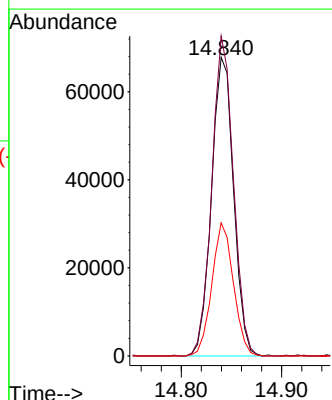
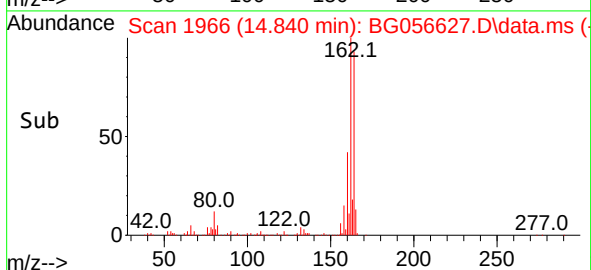
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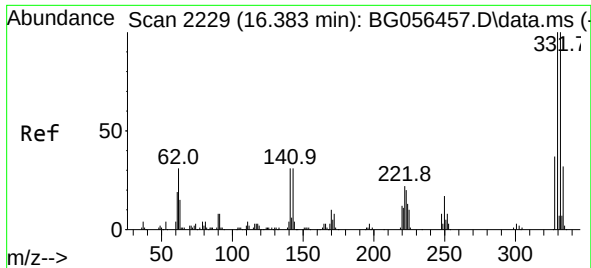


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.840 min Scan# 1966
Delta R.T. -0.001 min
Lab File: BG056627.D
Acq: 13 Feb 2023 20:09



Tgt Ion:164 Resp: 103626
Ion Ratio Lower Upper
164 100
162 107.1 79.6 119.4
160 44.5 34.9 52.3





#42
2,4,6-Tribromophenol
Concen: 46.750 ng
RT: 16.326 min Scan# 211
Delta R.T. -0.001 min
Lab File: BG056627.D
Acq: 13 Feb 2023 20:09

Instrument :

BNA_G

ClientSampleId :

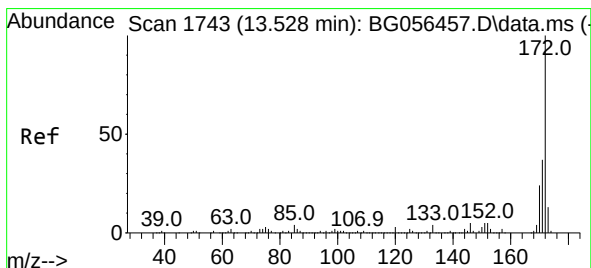
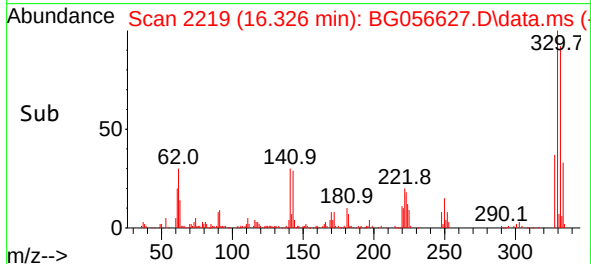
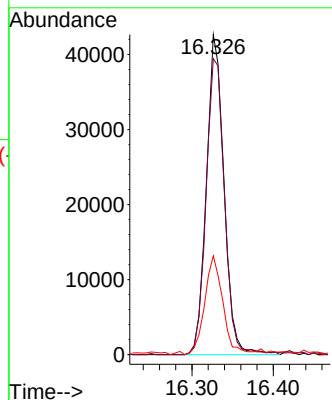
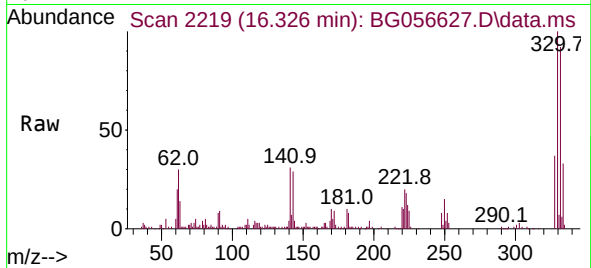
SB-06-5.0-7.0

Tgt Ion:330 Resp: 64405
Ion Ratio Lower Upper
330 100
332 97.3 79.0 118.6
141 31.7 24.2 36.4

Manual Integrations

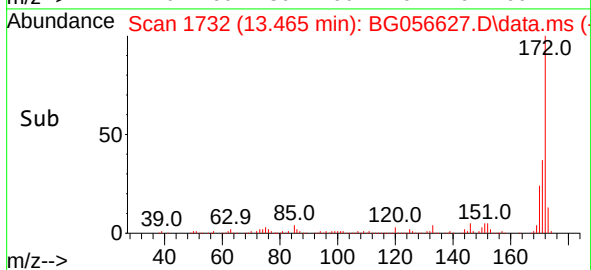
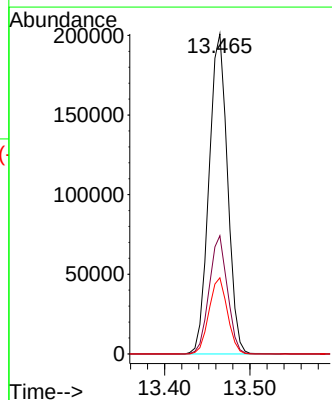
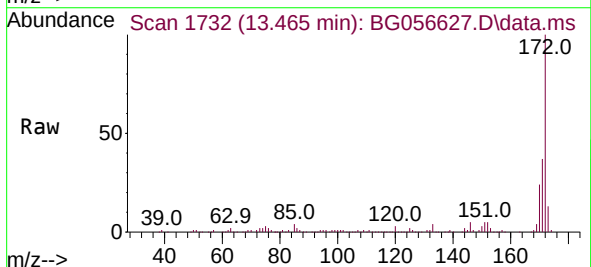
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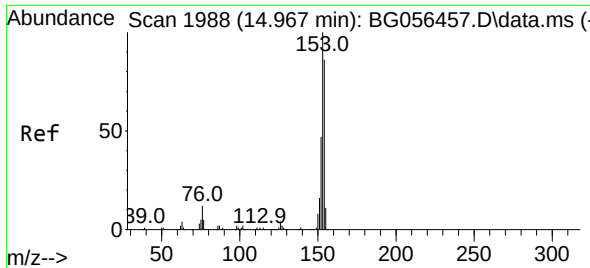
Reviewed By :Christian Giraldo 02/14/2023
Supervised By :Jagrut Upadhyay 02/14/2023



#45
2-Fluorobiphenyl
Concen: 40.429 ng
RT: 13.465 min Scan# 1732
Delta R.T. -0.001 min
Lab File: BG056627.D
Acq: 13 Feb 2023 20:09

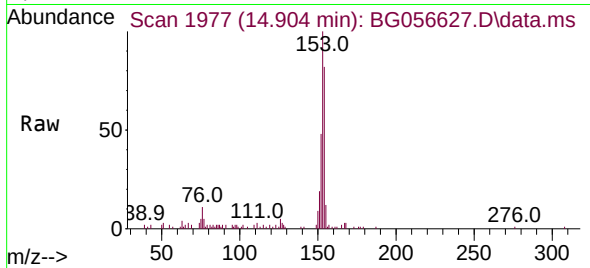
Tgt Ion:172 Resp: 302179
Ion Ratio Lower Upper
172 100
171 36.9 29.5 44.3
170 23.8 19.2 28.8





#52
Acenaphthene
Concen: 3.736 ng
RT: 14.904 min Scan# 1988
Delta R.T. -0.001 min
Lab File: BG056627.D
Acq: 13 Feb 2023 20:09

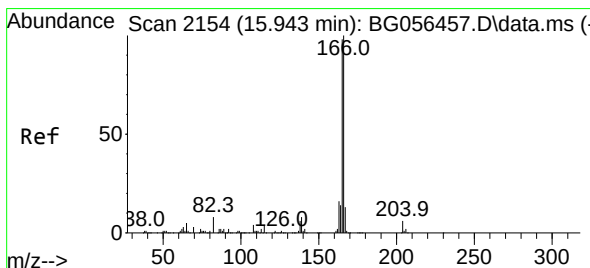
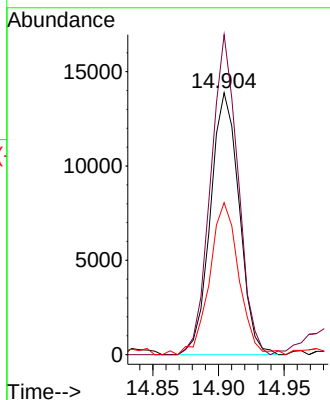
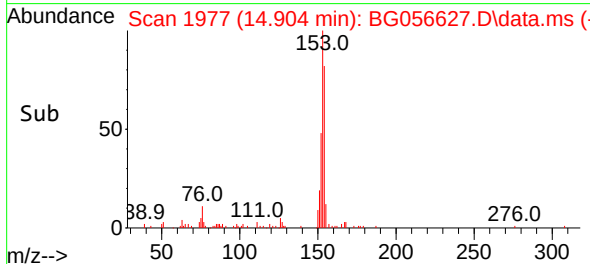
Instrument :
BNA_G
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SB-06-5.0-7.0



Tgt Ion:154 Resp: 21174
Ion Ratio Lower Upper
154 100
153 122.2 93.4 140.0
152 58.0 43.4 65.2

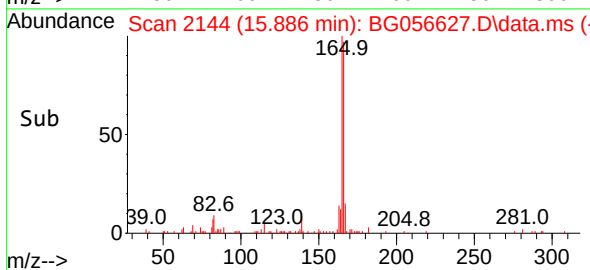
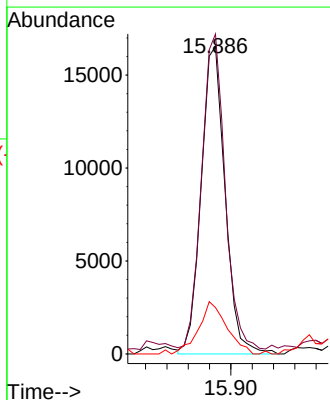
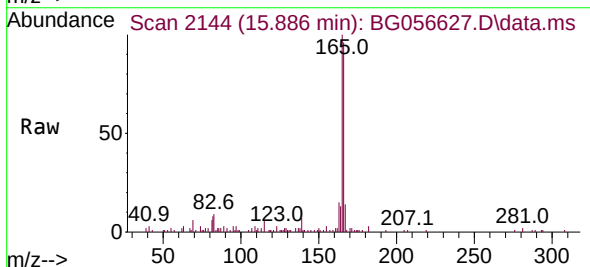
Manual Integrations
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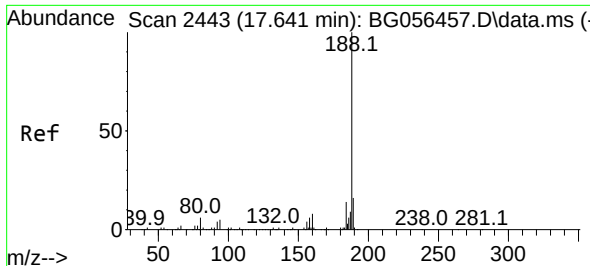
Reviewed By :Christian Giraldo 02/14/2023
Supervised By :Jagrut Upadhyay 02/14/2023



#58
Fluorene
Concen: 3.186 ng
RT: 15.886 min Scan# 2144
Delta R.T. -0.001 min
Lab File: BG056627.D
Acq: 13 Feb 2023 20:09

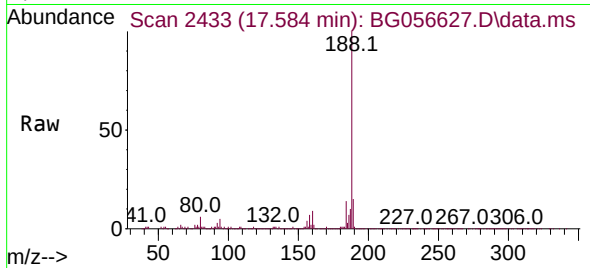
Tgt Ion:166 Resp: 25774
Ion Ratio Lower Upper
166 100
165 104.1 78.8 118.2
167 15.1 10.6 15.8





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.584 min Scan# 2443
Delta R.T. -0.001 min
Lab File: BG056627.D
Acq: 13 Feb 2023 20:09

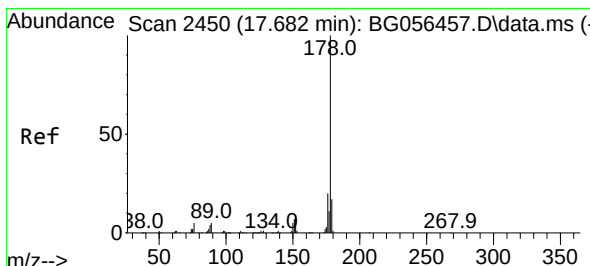
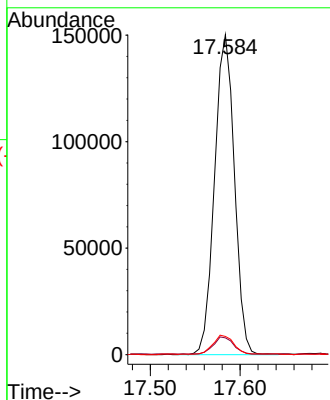
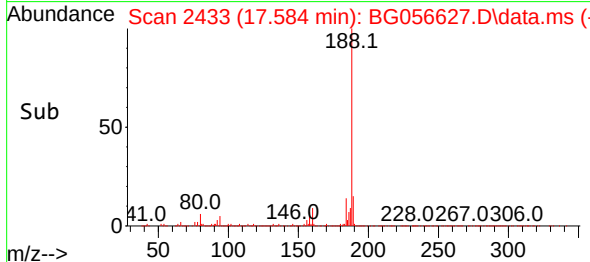
Instrument :
BNA_G
ClientSampleId :
SB-06-5.0-7.0



Tgt Ion:188 Resp: 230620
Ion Ratio Lower Upper
188 100
94 5.2 4.1 6.1
80 5.7 5.0 7.4

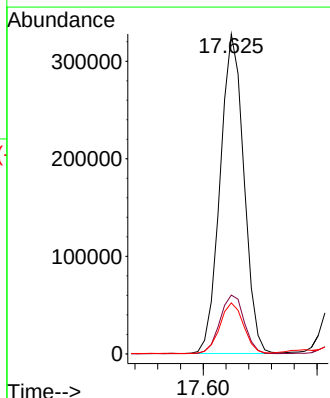
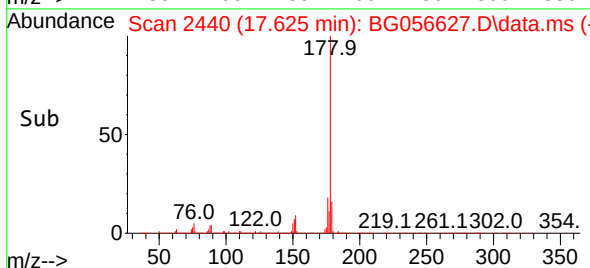
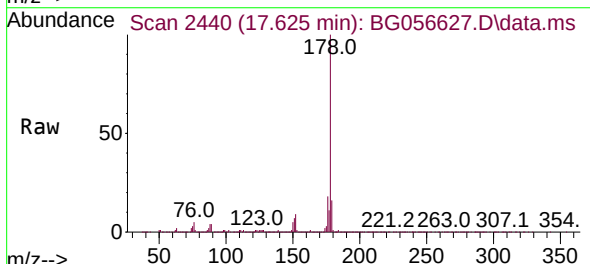
Manual Integrations
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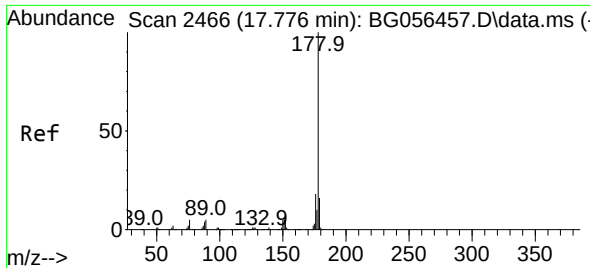
Reviewed By :Christian Giraldo 02/14/2023
Supervised By :Jagrut Upadhyay 02/14/2023



#71
Phenanthrene
Concen: 39.414 ng
RT: 17.625 min Scan# 2440
Delta R.T. -0.001 min
Lab File: BG056627.D
Acq: 13 Feb 2023 20:09

Tgt Ion:178 Resp: 475741
Ion Ratio Lower Upper
178 100
176 18.4 15.6 23.4
179 15.9 13.3 19.9





#72
 Anthracene
 Concen: 6.893 ng
 RT: 17.713 min Scan# 2466
 Delta R.T. -0.001 min
 Lab File: BG056627.D
 Acq: 13 Feb 2023 20:09

Instrument :

BNA_G

ClientSampleId :

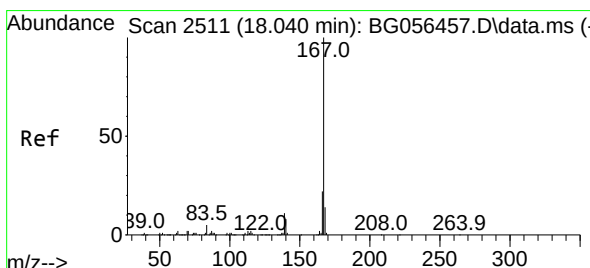
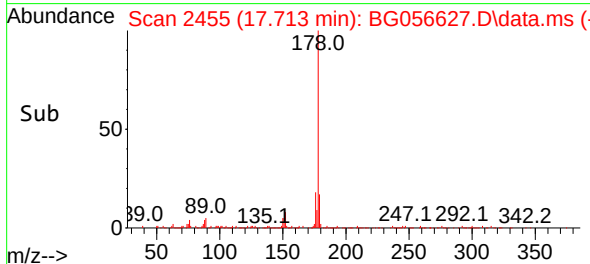
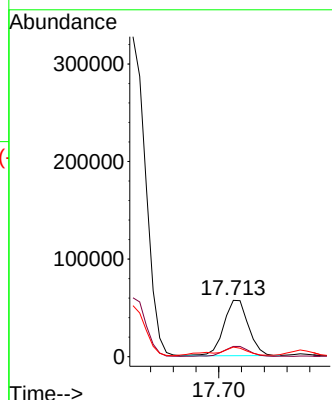
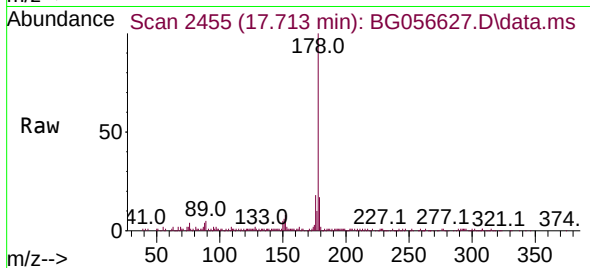
SB-06-5.0-7.0

Tgt Ion:178 Resp: 85412
 Ion Ratio Lower Upper
 178 100
 176 18.2 14.5 21.7
 179 16.9 12.5 18.7

Manual Integrations

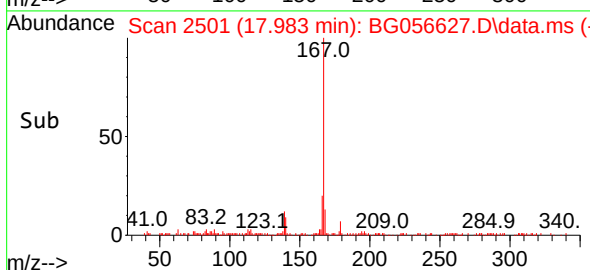
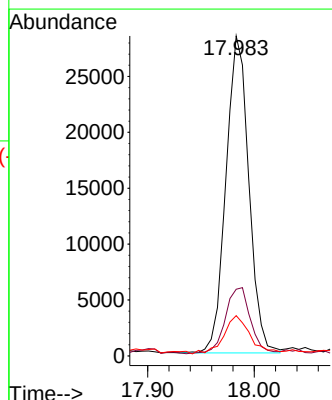
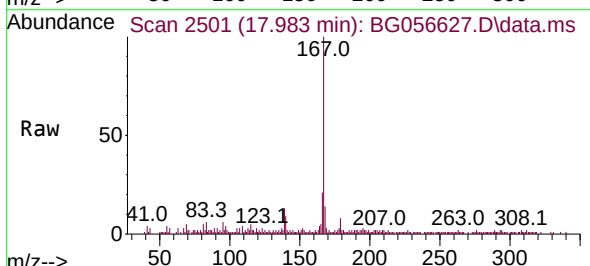
APPROVED

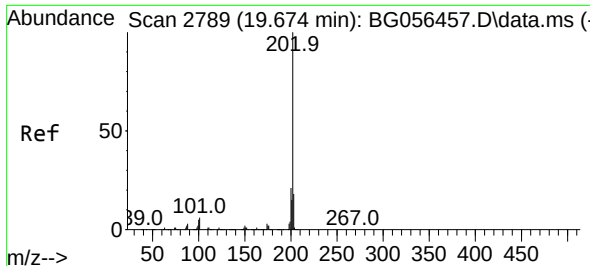
Reviewed By :Christian Giraldo 02/14/2023
 Supervised By :Jagrut Upadhyay 02/14/2023



#73
 Carbazole
 Concen: 4.016 ng
 RT: 17.983 min Scan# 2501
 Delta R.T. -0.001 min
 Lab File: BG056627.D
 Acq: 13 Feb 2023 20:09

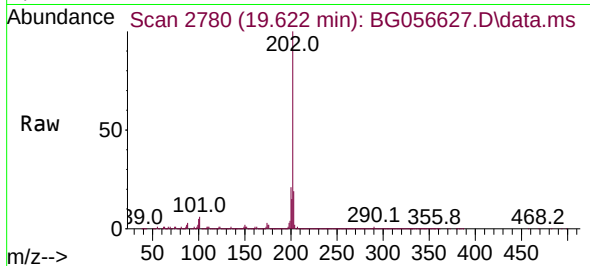
Tgt Ion:167 Resp: 42378
 Ion Ratio Lower Upper
 167 100
 166 20.8 17.8 26.6
 139 12.6 8.9 13.3





#75
Fluoranthene
Concen: 45.966 ng
RT: 19.622 min Scan# 21
Delta R.T. -0.001 min
Lab File: BG056627.D
Acq: 13 Feb 2023 20:09

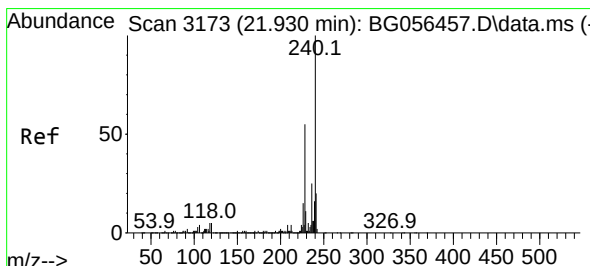
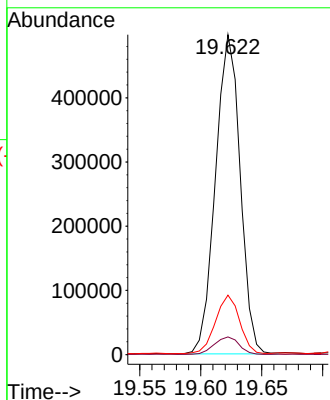
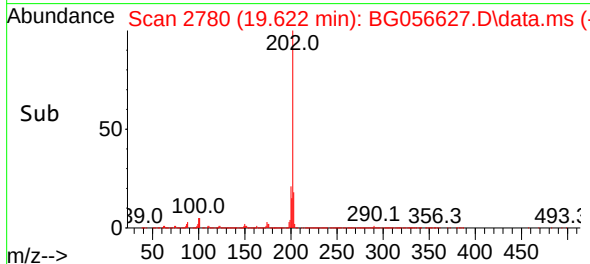
Instrument :
BNA_G
ClientSampleId :
SB-06-5.0-7.0



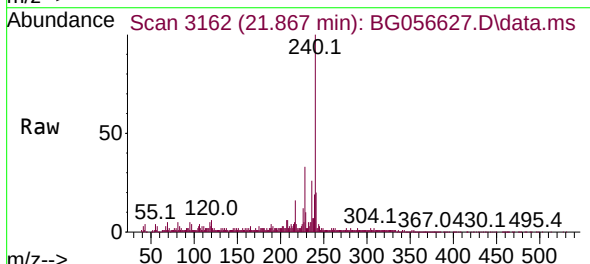
Tgt Ion:202 Resp: 700255
Ion Ratio Lower Upper
202 100
101 5.5 0.0 25.6
203 18.6 0.0 38.1

Manual Integrations
APPROVED

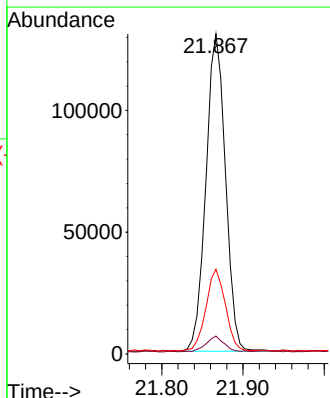
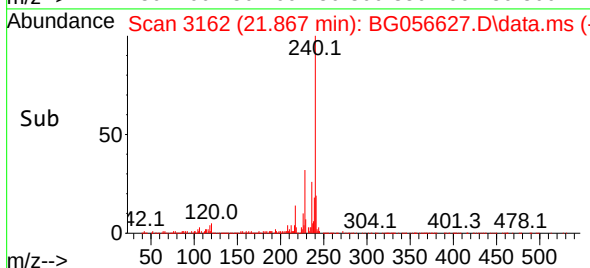
Reviewed By :Christian Giraldo 02/14/2023
Supervised By :Jagrut Upadhyay 02/14/2023

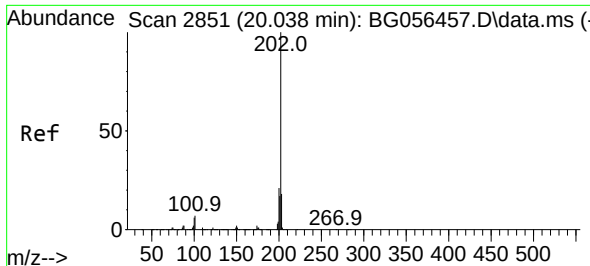


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.867 min Scan# 3162
Delta R.T. 0.005 min
Lab File: BG056627.D
Acq: 13 Feb 2023 20:09



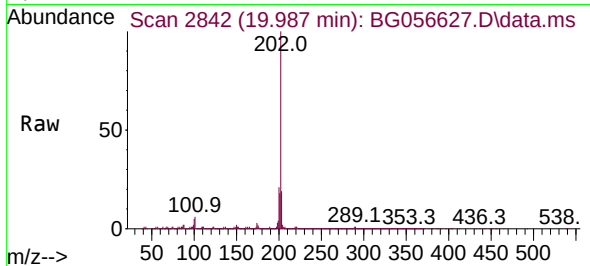
Tgt Ion:240 Resp: 218083
Ion Ratio Lower Upper
240 100
120 5.6 3.8 5.8
236 26.5 20.2 30.2





#78
Pyrene
Concen: 41.769 ng
RT: 19.987 min Scan# 2842
Delta R.T. 0.005 min
Lab File: BG056627.D
Acq: 13 Feb 2023 20:09

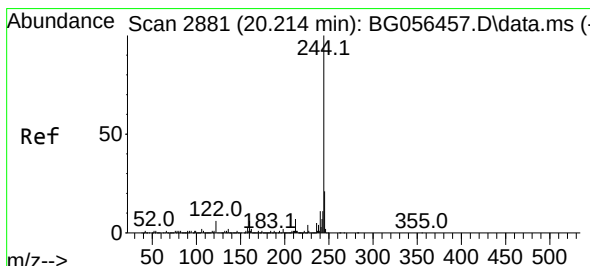
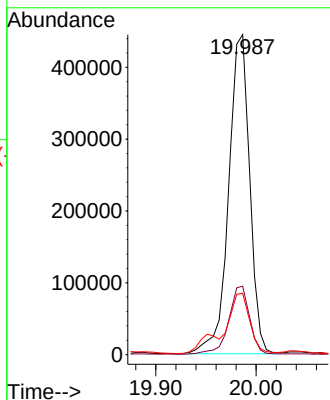
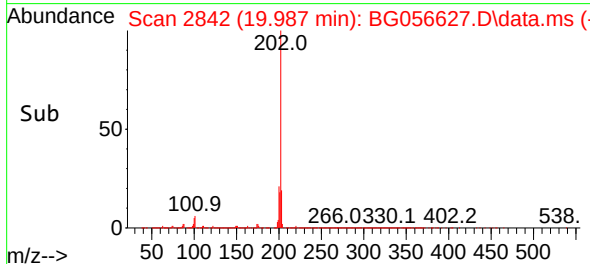
Instrument :
BNA_G
ClientSampleId :
SB-06-5.0-7.0



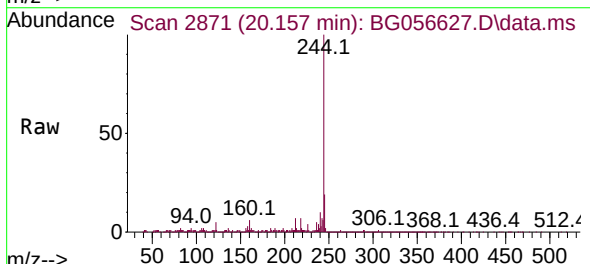
Tgt Ion:202 Resp: 647865
Ion Ratio Lower Upper
202 100
200 21.4 16.7 25.1
203 19.2 14.4 21.6

Manual Integrations
APPROVED

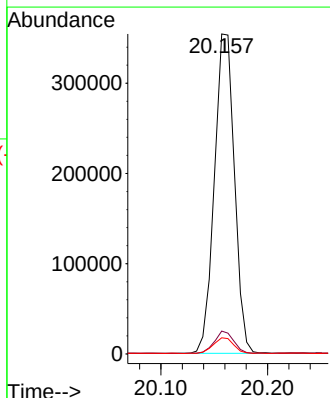
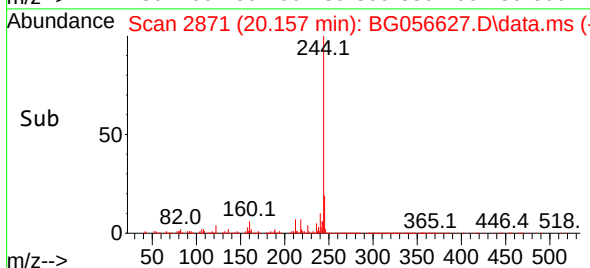
Reviewed By :Christian Giraldo 02/14/2023
Supervised By :Jagrut Upadhyay 02/14/2023

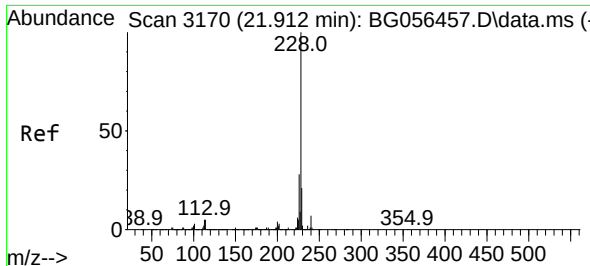


#79
Terphenyl-d14
Concen: 37.444 ng
RT: 20.157 min Scan# 2871
Delta R.T. -0.001 min
Lab File: BG056627.D
Acq: 13 Feb 2023 20:09



Tgt Ion:244 Resp: 464933
Ion Ratio Lower Upper
244 100
212 7.1 5.5 8.3
122 5.0 4.4 6.6





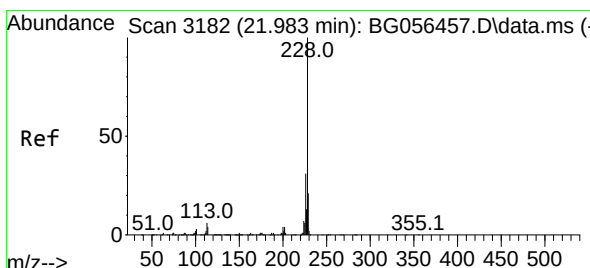
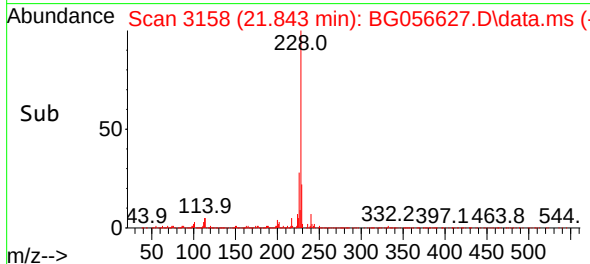
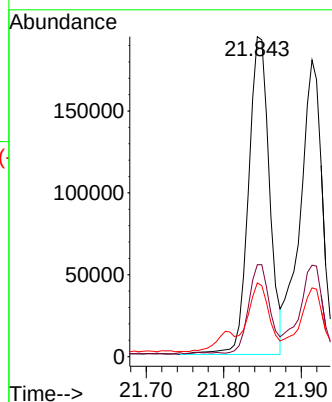
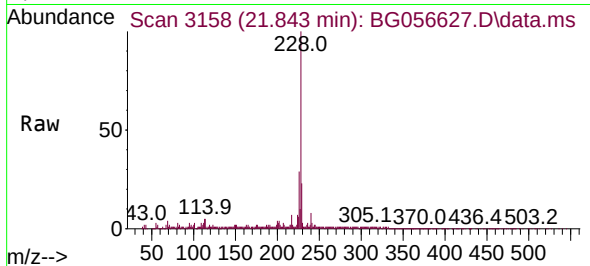
#81
Benzo(a)anthracene
Concen: 23.810 ng
RT: 21.843 min Scan# 3170
Delta R.T. 0.005 min
Lab File: BG056627.D
Acq: 13 Feb 2023 20:09

Instrument :
BNA_G
ClientSampleId :
SB-06-5.0-7.0

Tgt Ion:228 Resp: 363022
Ion Ratio Lower Upper
228 100
226 28.7 22.4 33.6
229 23.0 16.5 24.7

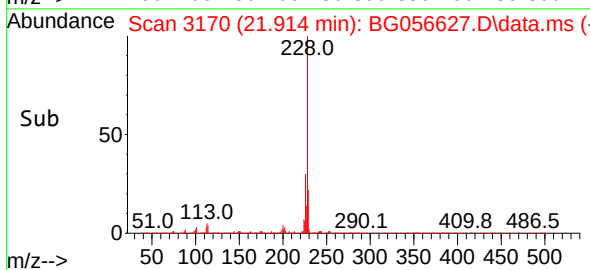
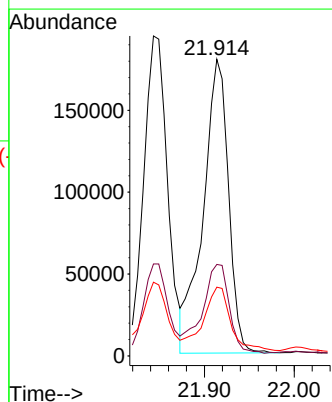
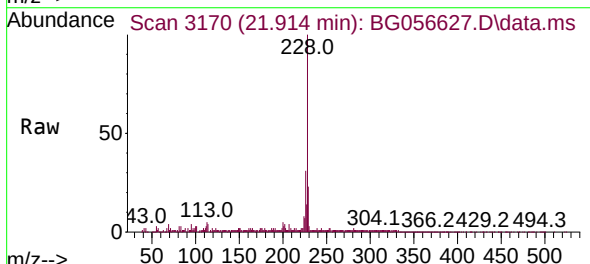
Manual Integrations
APPROVED

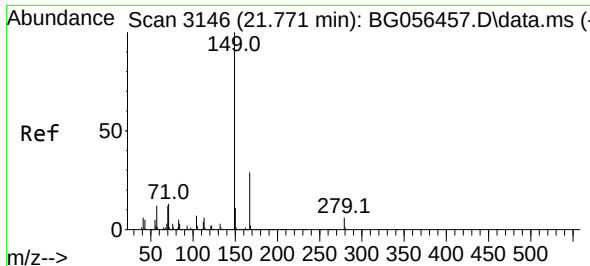
Reviewed By :Christian Giraldo 02/14/2023
Supervised By :Jagrut Upadhyay 02/14/2023



#83
Chrysene
Concen: 24.628 ng
RT: 21.914 min Scan# 3170
Delta R.T. 0.005 min
Lab File: BG056627.D
Acq: 13 Feb 2023 20:09

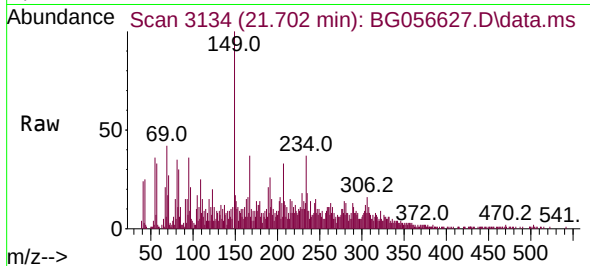
Tgt Ion:228 Resp: 352763
Ion Ratio Lower Upper
228 100
226 30.8 25.0 37.4
229 23.2 16.4 24.6





#84
Bis(2-ethylhexyl)phthalate
Concen: 3.580 ng
RT: 21.702 min Scan# 3146
Delta R.T. 0.005 min
Lab File: BG056627.D
Acq: 13 Feb 2023 20:09

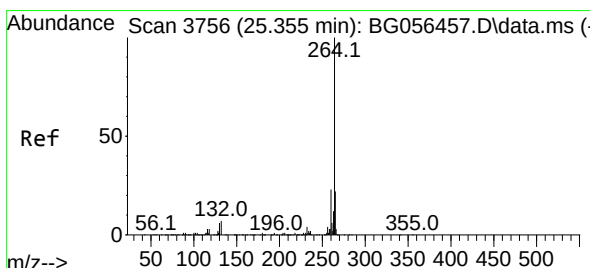
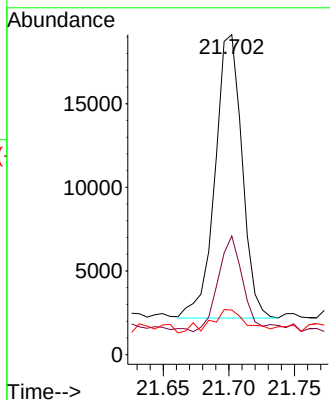
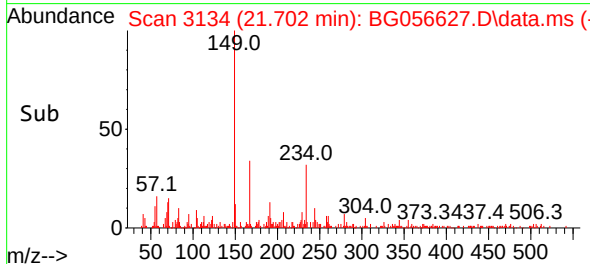
Instrument :
BNA_G
ClientSampleId :
SB-06-5.0-7.0



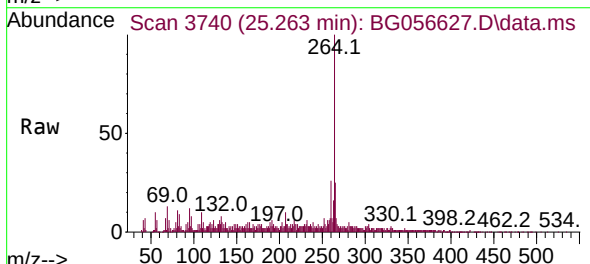
Tgt Ion:149 Resp: 24315
Ion Ratio Lower Upper
149 100
167 37.1 23.4 35.2
279 13.9 4.4 6.6

Manual Integrations
APPROVED

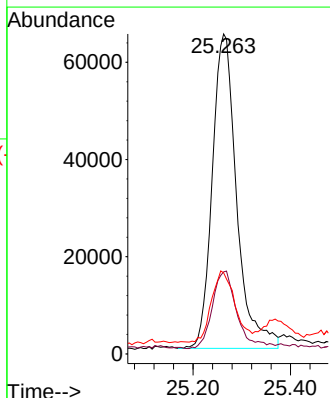
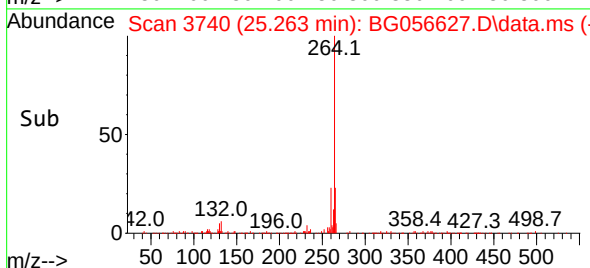
Reviewed By :Christian Giraldo 02/14/2023
Supervised By :Jagrut Upadhyay 02/14/2023

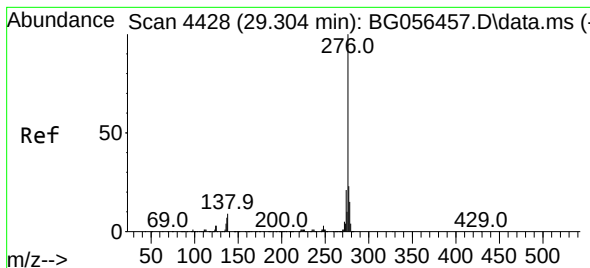


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.263 min Scan# 3740
Delta R.T. 0.028 min
Lab File: BG056627.D
Acq: 13 Feb 2023 20:09



Tgt Ion:264 Resp: 224726
Ion Ratio Lower Upper
264 100
260 25.6 18.2 27.4
265 25.3 18.1 27.1





#87

Indeno(1,2,3-cd)pyrene

Concen: 8.196 ng

RT: 29.188 min Scan# 4428

Delta R.T. 0.058 min

Lab File: BG056627.D

Acq: 13 Feb 2023 20:09

Instrument :

BNA_G

ClientSampleId :

SB-06-5.0-7.0

Tgt Ion: 276 Resp: 13482

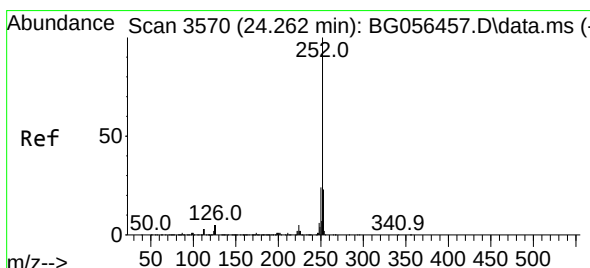
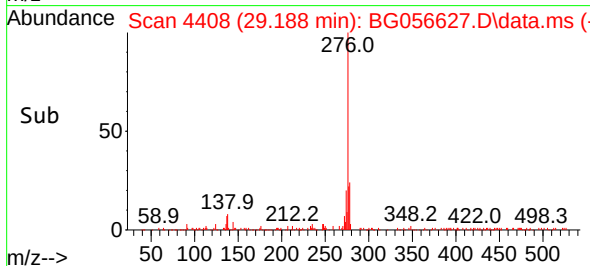
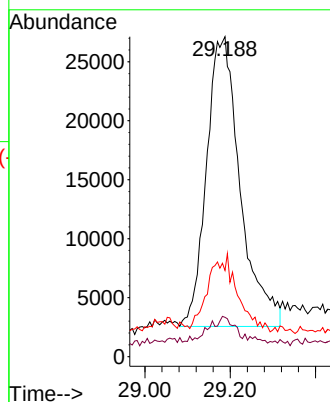
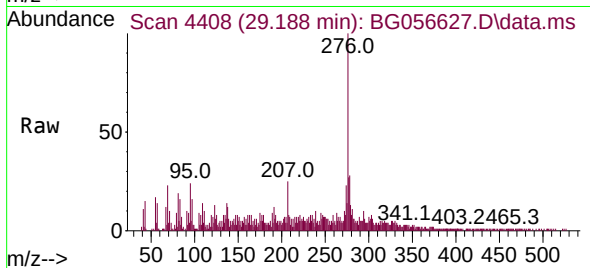
Ion	Ratio	Lower	Upper
276	100		
138	3.0	9.4	14.2
277	9.8	20.3	30.5

Manual Integrations

APPROVED

Reviewed By : Christian Giraldo 02/14/2023

Supervised By : Jagrut Upadhyay 02/14/2023



#88

Benzo(b)fluoranthene

Concen: 30.394 ng

RT: 24.182 min Scan# 3556

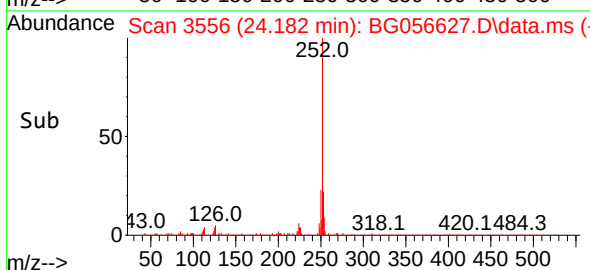
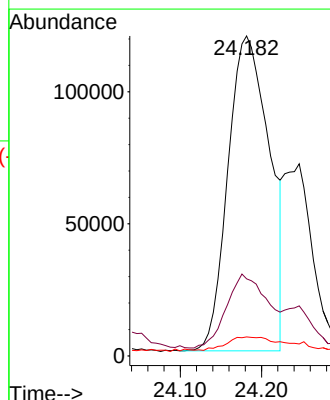
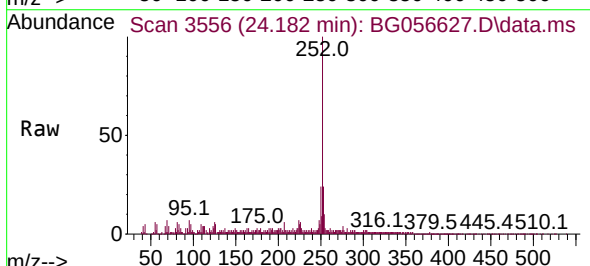
Delta R.T. 0.023 min

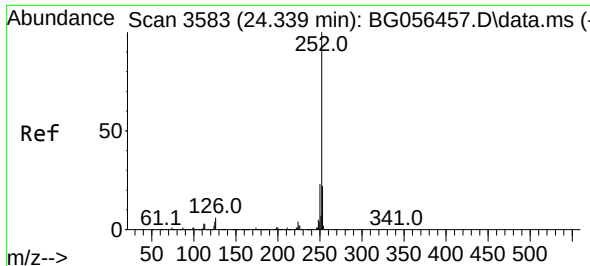
Lab File: BG056627.D

Acq: 13 Feb 2023 20:09

Tgt Ion: 252 Resp: 423952

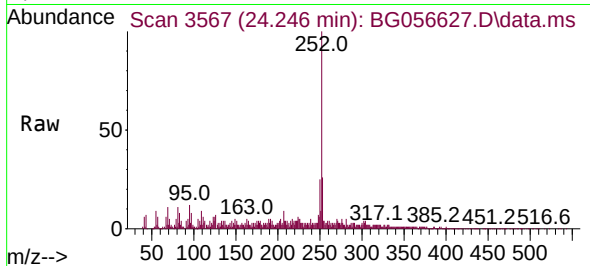
Ion	Ratio	Lower	Upper
252	100		
253	24.1	18.1	27.1
125	5.9	3.9	5.9





#89
Benzo(k)fluoranthene
Concen: 12.532 ng m
RT: 24.246 min Scan# 3583
Delta R.T. 0.017 min
Lab File: BG056627.D
Acq: 13 Feb 2023 20:09

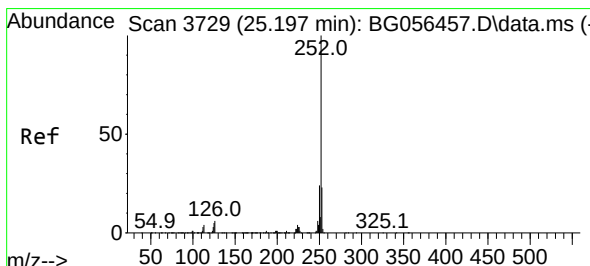
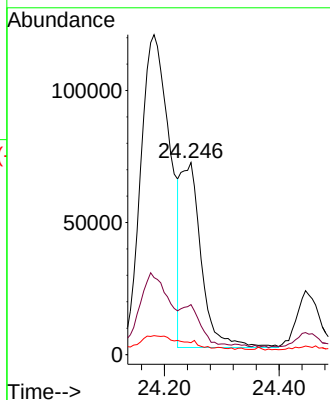
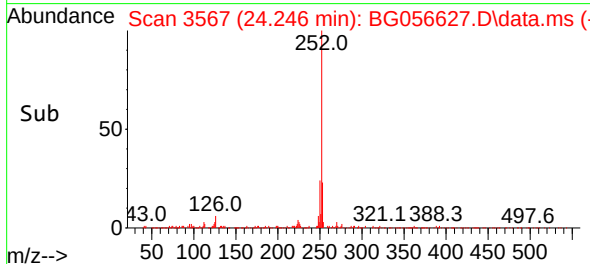
Instrument :
BNA_G
ClientSampleId :
SB-06-5.0-7.0



Tgt Ion:252 Resp: 176490
Ion Ratio Lower Upper
252 100
253 26.0 17.5 26.3
125 6.2 3.4 5.0

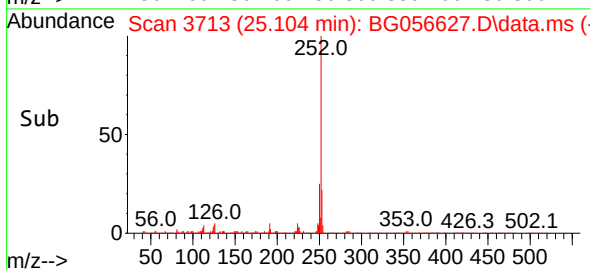
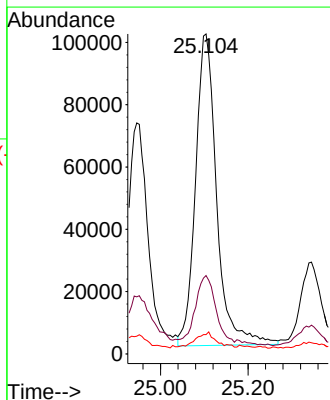
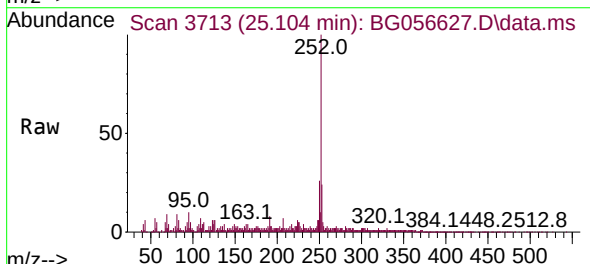
Manual Integrations
APPROVED

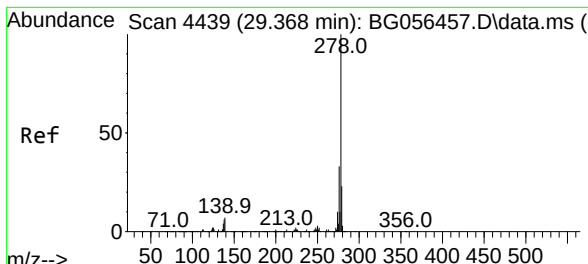
Reviewed By :Christian Giraldo 02/14/2023
Supervised By :Jagrut Upadhyay 02/14/2023



#90
Benzo(a)pyrene
Concen: 24.410 ng
RT: 25.104 min Scan# 3713
Delta R.T. 0.022 min
Lab File: BG056627.D
Acq: 13 Feb 2023 20:09

Tgt Ion:252 Resp: 335402
Ion Ratio Lower Upper
252 100
253 24.5 18.4 27.6
125 6.0 4.1 6.1





#91
 Dibenzo(a,h)anthracene
 Concen: 2.700 ng
 RT: 29.199 min Scan# 4439
 Delta R.T. 0.017 min
 Lab File: BG056627.D
 Acq: 13 Feb 2023 20:09

Instrument :

BNA_G

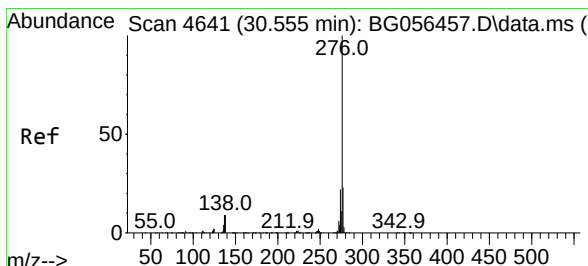
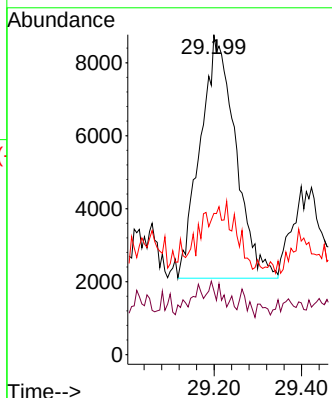
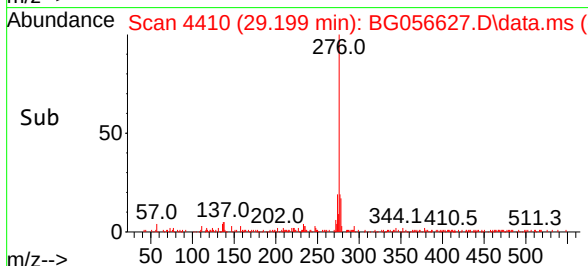
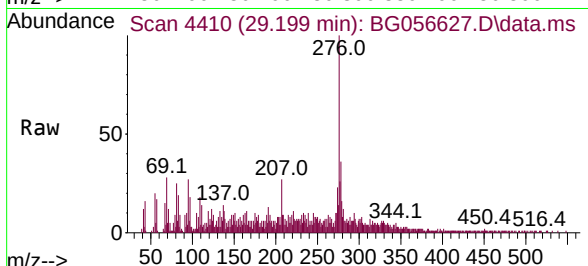
ClientSampleId :

SB-06-5.0-7.0

Tgt Ion:	278	Resp:	37284
Ion Ratio	Lower	Upper	
278	100		
139	20.0	5.5	8.3#
279	44.1	18.8	28.2#

Manual Integrations
 APPROVED

Reviewed By :Christian Giraldo 02/14/2023
 Supervised By :Jagrut Upadhyay 02/14/2023



#92
 Benzo(g,h,i)perylene
 Concen: 10.180 ng
 RT: 30.410 min Scan# 4616
 Delta R.T. 0.058 min
 Lab File: BG056627.D
 Acq: 13 Feb 2023 20:09

Tgt Ion:	276	Resp:	135631
Ion Ratio	Lower	Upper	
276	100		
277	31.5	18.5	27.7#
138	11.5	7.4	11.0#

