

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG020823\
 Data File : BG056581.D
 Acq On : 8 Feb 2023 14:23
 Operator : CG/JU
 Sample : 01478-01
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SU-04-02072023

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 02/09/2023
 Supervised By : Jagrut Upadhyay 02/09/2023

Quant Time: Feb 09 02:06:53 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

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.270	152	38998	20.000	ng	# 0.00
21) Naphthalene-d8	11.101	136	149615	20.000	ng	0.00
39) Acenaphthene-d10	14.891	164	105356	20.000	ng	0.00
64) Phenanthrene-d10	17.629	188	240357	20.000	ng	0.00
76) Chrysene-d12	21.924	240	220551	20.000	ng	0.00
86) Perylene-d12	25.349	264	241387	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.796	112	215717	101.756	ng	0.00
7) Phenol-d6	7.418	99	296180	94.293	ng	0.00
23) Nitrobenzene-d5	9.445	82	155420	58.988	ng	0.00
42) 2,4,6-Tribromophenol	16.372	330	114897	82.032	ng	0.00
45) 2-Fluorobiphenyl	13.516	172	480998	63.297	ng	0.00
79) Terphenyl-d14	20.203	244	760730	60.581	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	11.149	128	76962	9.746	ng	98
37) 2-Methylnaphthalene	12.735	142	24722	3.797	ng	97
38) 1-Methylnaphthalene	12.952	142	15996	2.631	ng	93
52) Acenaphthene	14.956	154	61884	10.738	ng	97
55) Dibenzofuran	15.285	168	79995	7.740	ng	96
58) Fluorene	15.931	166	100902	12.270	ng	99
71) Phenanthrene	17.676	178	991862	78.845	ng	99
72) Anthracene	17.764	178	313263	24.259	ng	98
73) Carbazole	18.029	167	74861	6.807	ng	98
75) Fluoranthene	19.674	202	1575586	99.235	ng	98
78) Pyrene	20.032	202	1304225	83.146	ng	98
81) Benzo(a)anthracene	21.906	228	716247	46.452	ng	98
83) Chrysene	21.971	228	600835m	41.477	ng	
87) Indeno(1,2,3-cd)pyrene	29.304	276	372794	21.098	ng	# 96
88) Benzo(b)fluoranthene	24.263	252	783071	52.265	ng	98
89) Benzo(k)fluoranthene	24.321	252	306724m	20.277	ng	
90) Benzo(a)pyrene	25.191	252	619485	41.974	ng	98
91) Dibenzo(a,h)anthracene	29.345	278	95394	6.432	ng	# 91
92) Benzo(g,h,i)perylene	30.555	276	325315	22.731	ng	97

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

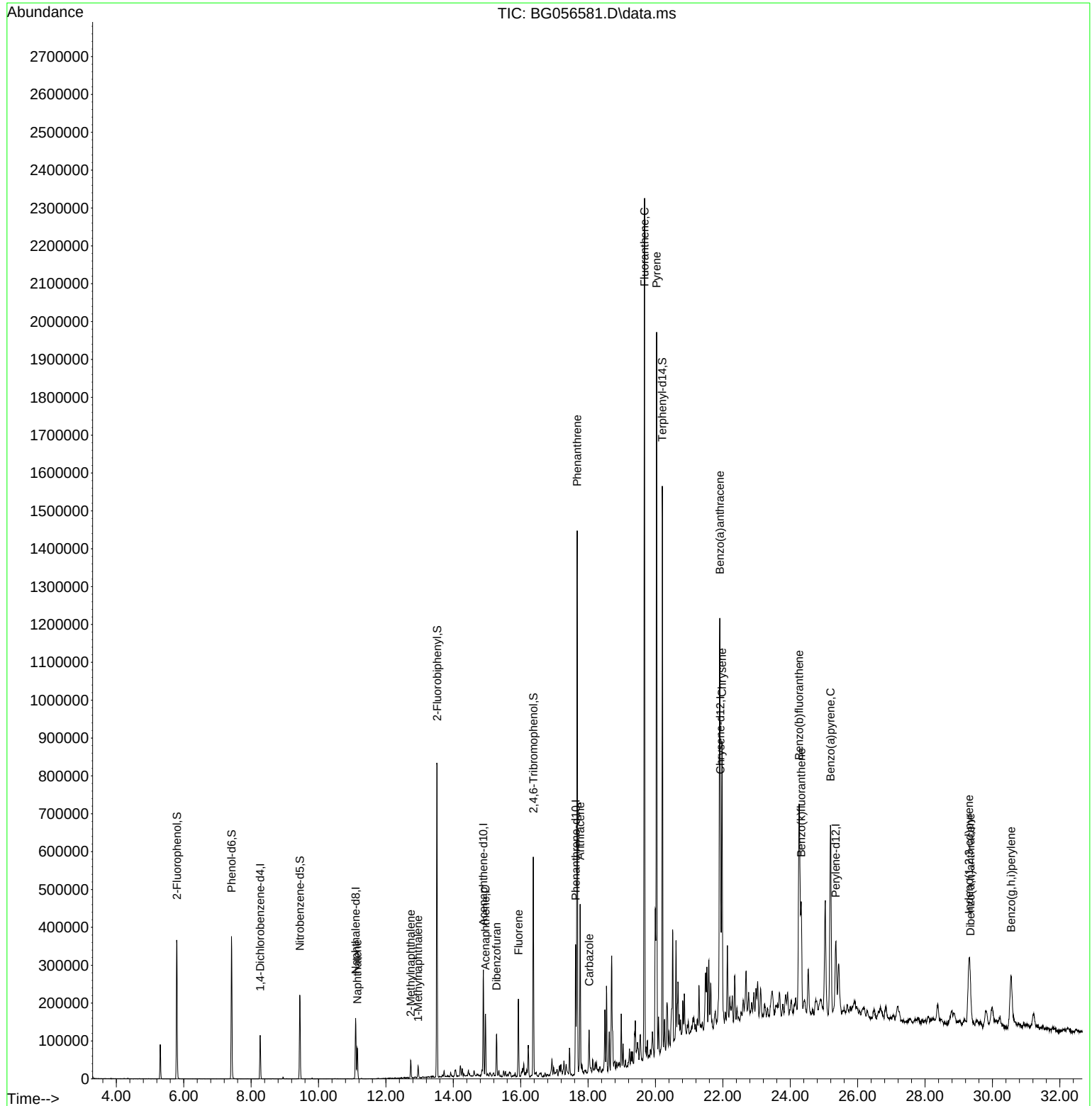
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG020823\
Data File : BG056581.D
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ALS Vial : 4 Sample Multiplier: 1

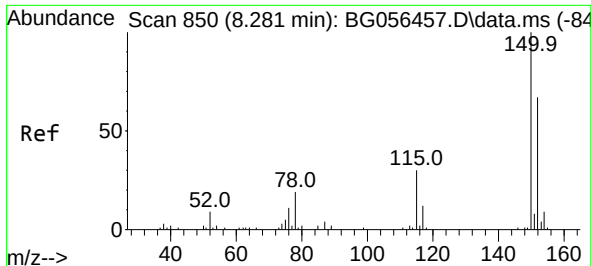
Instrument :
BNA_G
ClientSampleId :
SU-04-02072023

Quant Time: Feb 09 02:06:53 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
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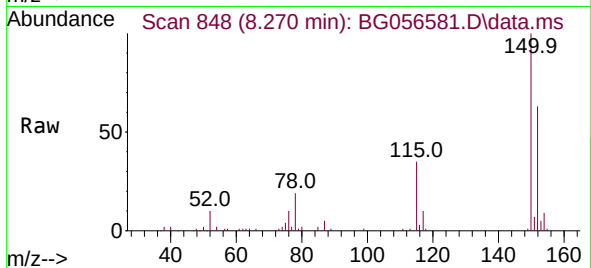
Reviewed By : Christian Giraldo 02/09/2023
Supervised By : Jagrut Upadhyay 02/09/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.270 min Scan# 84
Delta R.T. 0.001 min
Lab File: BG056581.D
Acq: 8 Feb 2023 14:23

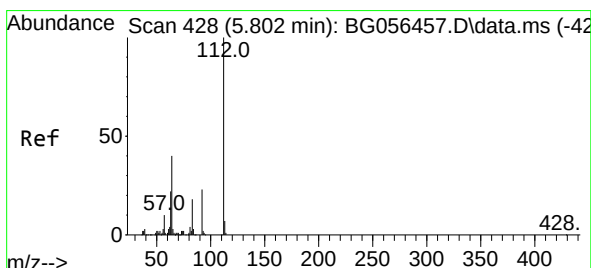
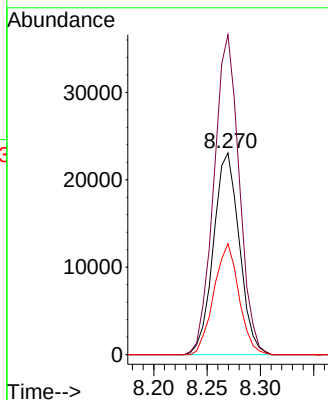
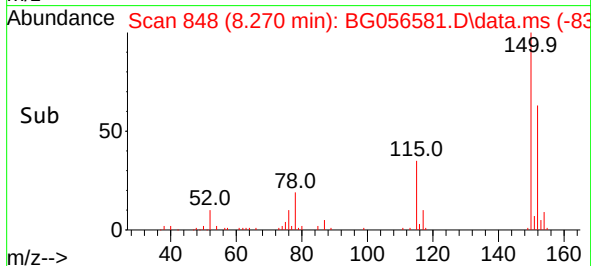
Instrument :
BNA_G
ClientSampleId :
SU-04-02072023



Tgt Ion:152 Resp: 38998
Ion Ratio Lower Upper
152 100
150 158.7 120.2 180.4
115 55.0 36.3 54.5

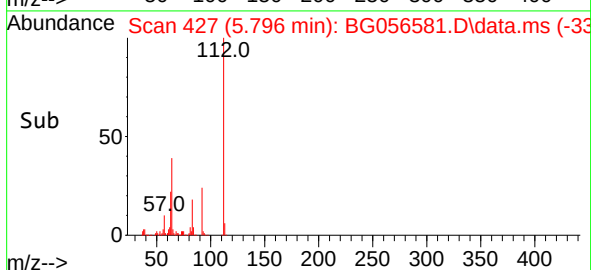
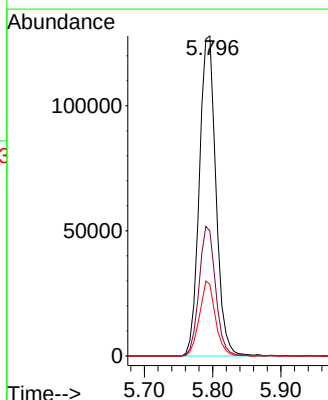
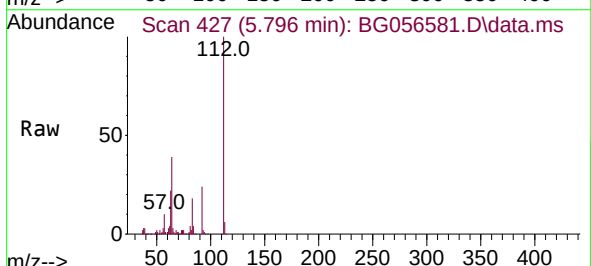
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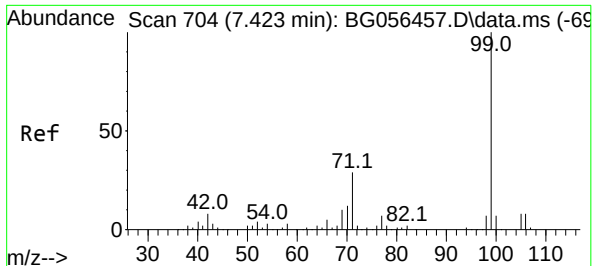
Reviewed By :Christian Giraldo 02/09/2023
Supervised By :Jagrut Upadhyay 02/09/2023



#5
2-Fluorophenol
Concen: 101.756 ng
RT: 5.796 min Scan# 427
Delta R.T. 0.006 min
Lab File: BG056581.D
Acq: 8 Feb 2023 14:23

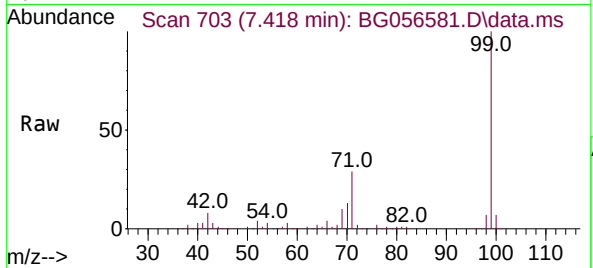
Tgt Ion:112 Resp: 215717
Ion Ratio Lower Upper
112 100
64 39.0 31.9 47.9
63 22.3 17.4 26.0





#7
Phenol-d6
Concen: 94.293 ng
RT: 7.418 min Scan# 704
Delta R.T. 0.000 min
Lab File: BG056581.D
Acq: 8 Feb 2023 14:23

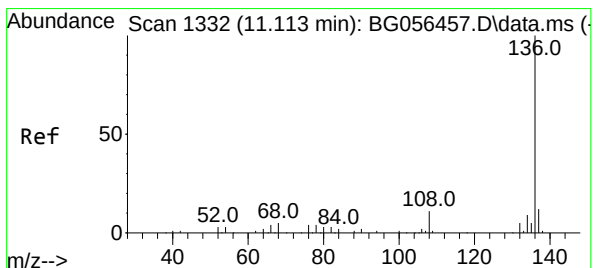
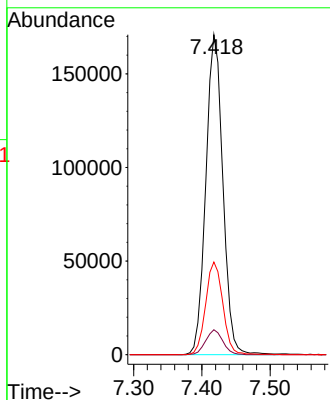
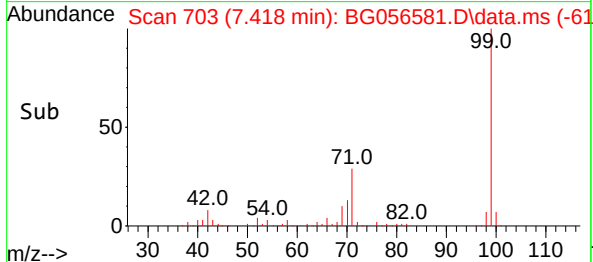
Instrument :
BNA_G
ClientSampleId :
SU-04-02072023



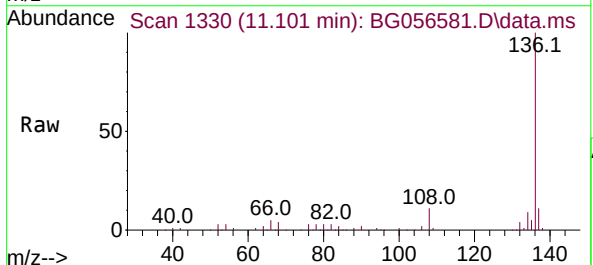
Tgt Ion: 99 Resp: 296180
Ion Ratio Lower Upper
99 100
42 7.8 6.6 10.0
71 28.9 23.4 35.0

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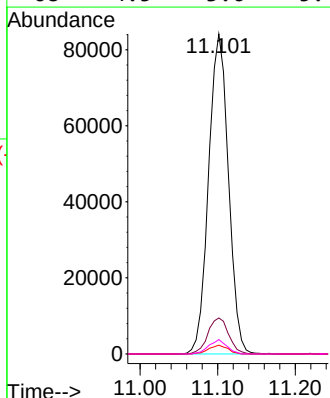
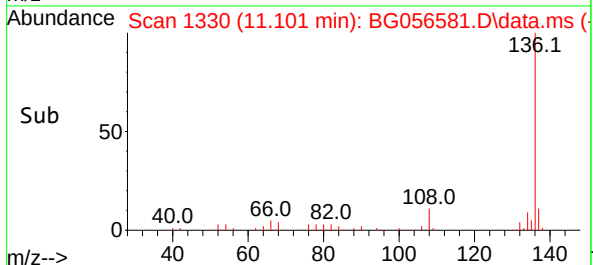
Reviewed By :Christian Giraldo 02/09/2023
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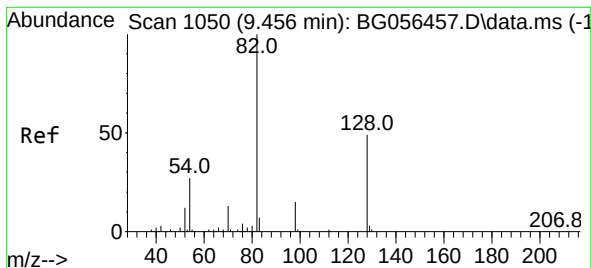


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.101 min Scan# 1330
Delta R.T. 0.000 min
Lab File: BG056581.D
Acq: 8 Feb 2023 14:23



Tgt Ion:136 Resp: 149615
Ion Ratio Lower Upper
136 100
137 11.2 9.4 14.0
54 2.7 2.2 3.4
68 4.5 3.6 5.4





#23

Nitrobenzene-d5

Concen: 58.988 ng

RT: 9.445 min Scan# 1048

Delta R.T. 0.000 min

Lab File: BG056581.D

Acq: 8 Feb 2023 14:23

Instrument :

BNA_G

ClientSampleId :

SU-04-02072023

Tgt Ion: 82 Resp: 155420

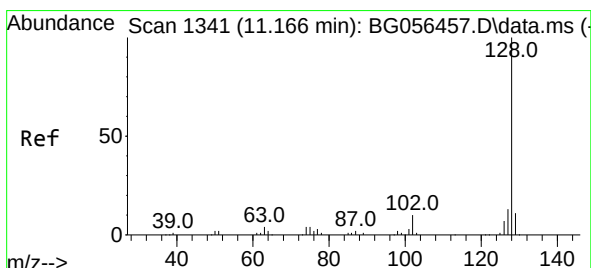
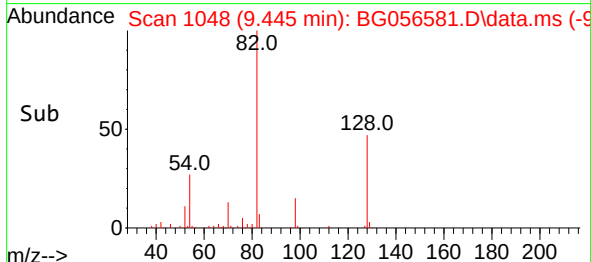
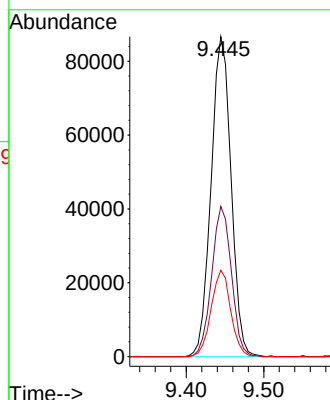
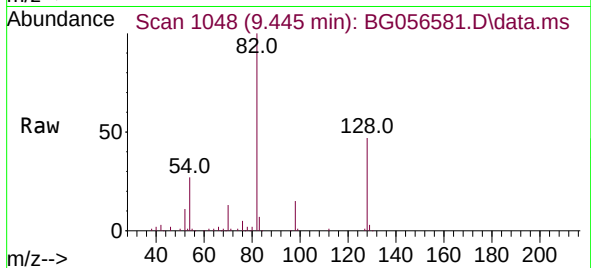
Ion	Ratio	Lower	Upper
82	100		
128	46.9	39.4	59.2
54	27.0	21.4	32.2

Manual Integrations

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#31

Naphthalene

Concen: 9.746 ng

RT: 11.149 min Scan# 1338

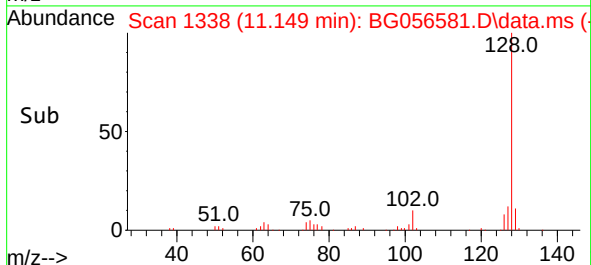
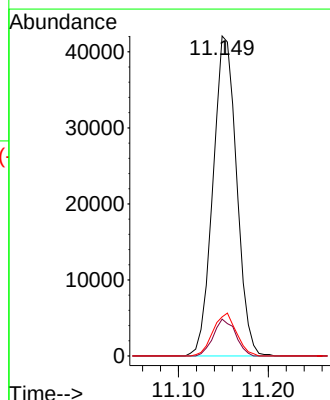
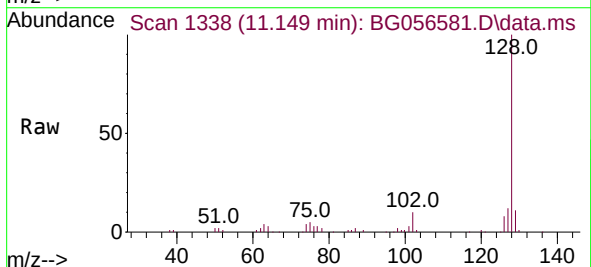
Delta R.T. -0.006 min

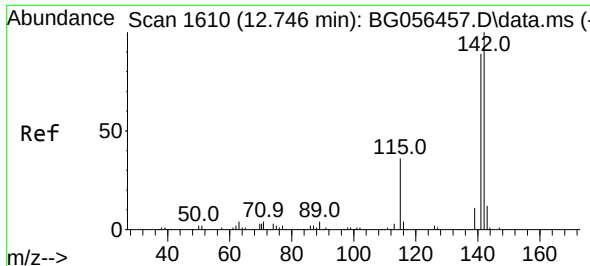
Lab File: BG056581.D

Acq: 8 Feb 2023 14:23

Tgt Ion:128 Resp: 76962

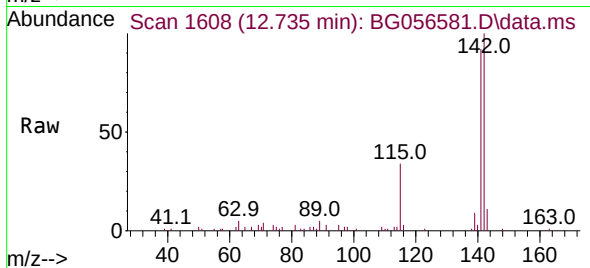
Ion	Ratio	Lower	Upper
128	100		
129	11.5	8.7	13.1
127	12.2	10.4	15.6





#37
2-Methylnaphthalene
Concen: 3.797 ng
RT: 12.735 min Scan# 1608
Delta R.T. -0.006 min
Lab File: BG056581.D
Acq: 8 Feb 2023 14:23

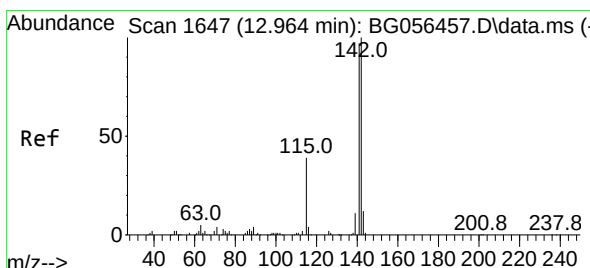
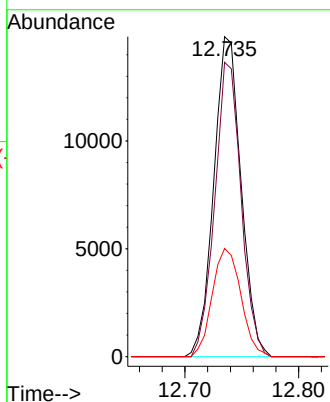
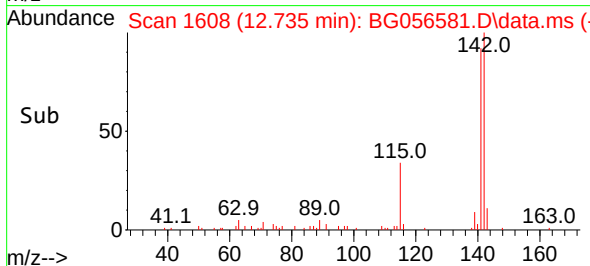
Instrument :
BNA_G
ClientSampleId :
SU-04-02072023



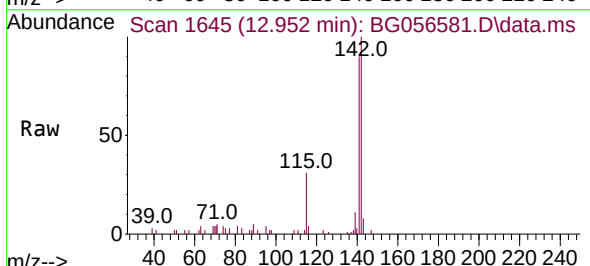
Tgt Ion:142 Resp: 2472
Ion Ratio Lower Upper
142 100
141 92.0 71.4 107.0
115 33.8 28.4 42.6

Manual Integrations
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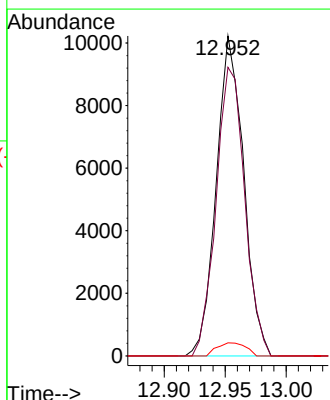
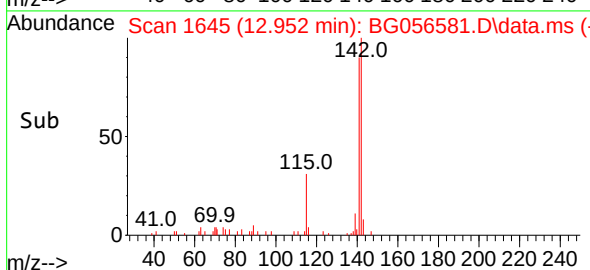
Reviewed By :Christian Giraldo 02/09/2023
Supervised By :Jagrut Upadhyay 02/09/2023

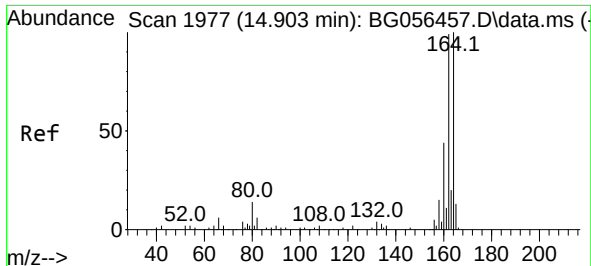


#38
1-Methylnaphthalene
Concen: 2.631 ng
RT: 12.952 min Scan# 1645
Delta R.T. 0.000 min
Lab File: BG056581.D
Acq: 8 Feb 2023 14:23



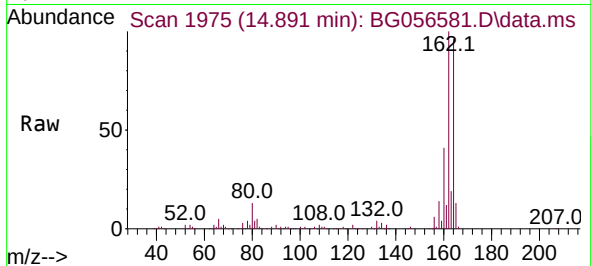
Tgt Ion:142 Resp: 15996
Ion Ratio Lower Upper
142 100
141 90.2 77.7 116.5
116 4.1 3.4 5.2





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.891 min Scan# 1975
Delta R.T. 0.000 min
Lab File: BG056581.D
Acq: 8 Feb 2023 14:23

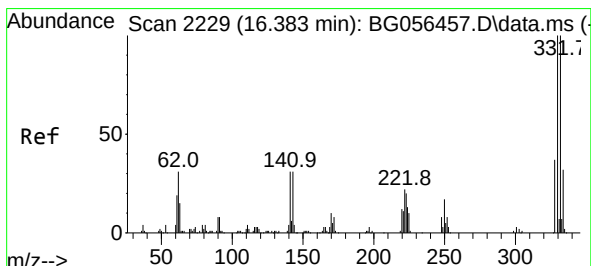
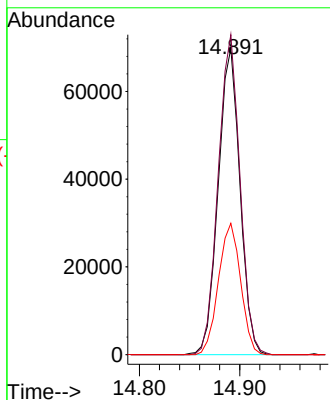
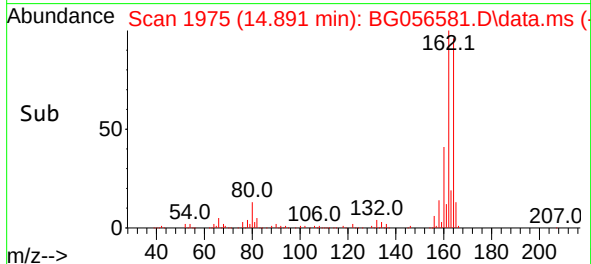
Instrument :
BNA_G
ClientSampleId :
SU-04-02072023



Tgt Ion:164 Resp: 105356
Ion Ratio Lower Upper
164 100
162 104.5 79.6 119.4
160 42.9 34.9 52.3

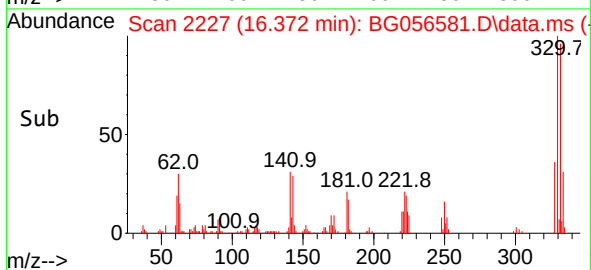
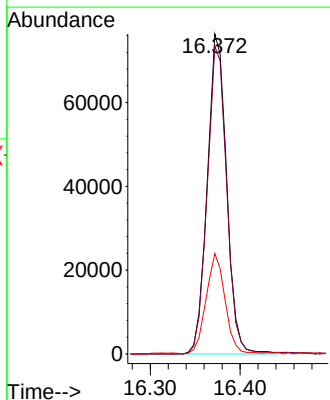
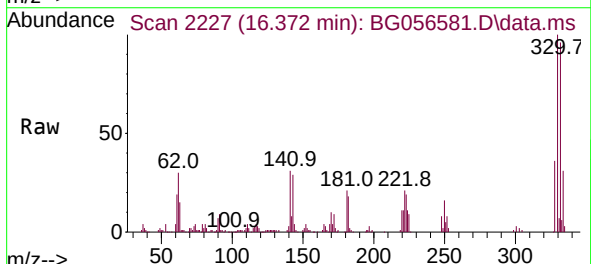
Manual Integrations
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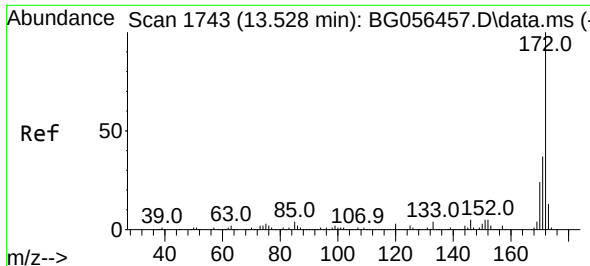
Reviewed By :Christian Giraldo 02/09/2023
Supervised By :Jagrut Upadhyay 02/09/2023



#42
2,4,6-Tribromophenol
Concen: 82.032 ng
RT: 16.372 min Scan# 2227
Delta R.T. -0.006 min
Lab File: BG056581.D
Acq: 8 Feb 2023 14:23

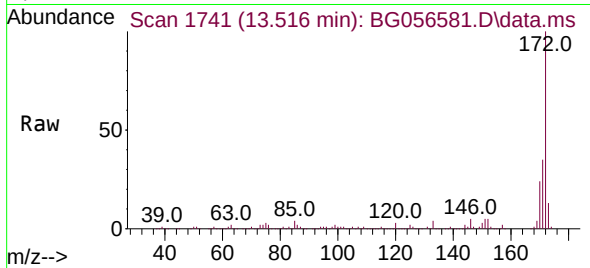
Tgt Ion:330 Resp: 114897
Ion Ratio Lower Upper
330 100
332 97.1 79.0 118.6
141 30.8 24.2 36.4





#45
2-Fluorobiphenyl
Concen: 63.297 ng
RT: 13.516 min Scan# 1741
Delta R.T. 0.000 min
Lab File: BG056581.D
Acq: 8 Feb 2023 14:23

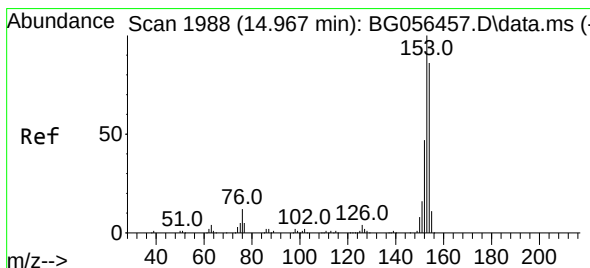
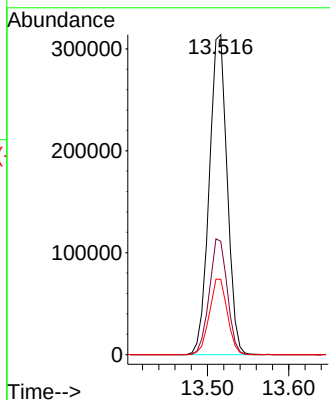
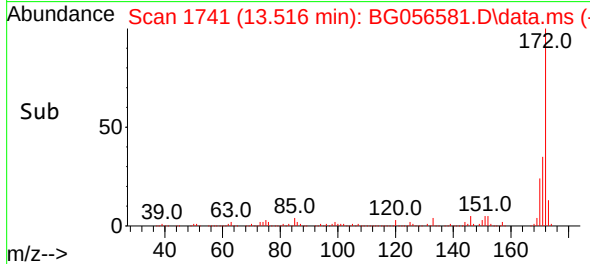
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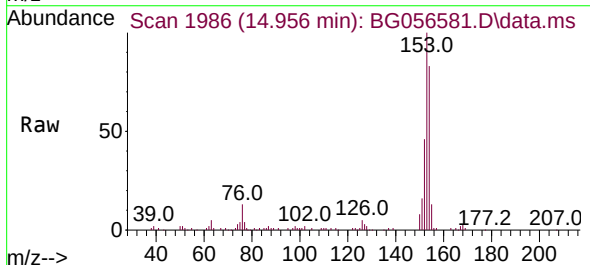
Tgt Ion:172 Resp: 480998
Ion Ratio Lower Upper
172 100
171 35.4 29.5 44.3
170 23.5 19.2 28.8

Manual Integrations
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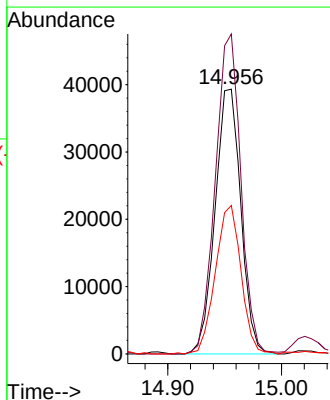
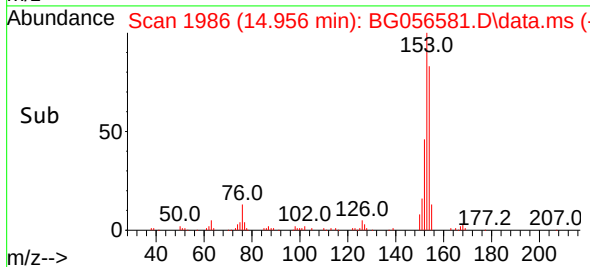
Reviewed By :Christian Giraldo 02/09/2023
Supervised By :Jagrut Upadhyay 02/09/2023

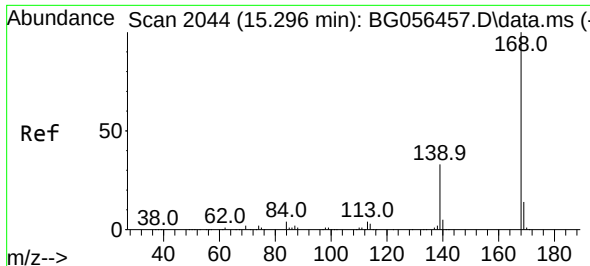


#52
Acenaphthene
Concen: 10.738 ng
RT: 14.956 min Scan# 1986
Delta R.T. 0.000 min
Lab File: BG056581.D
Acq: 8 Feb 2023 14:23



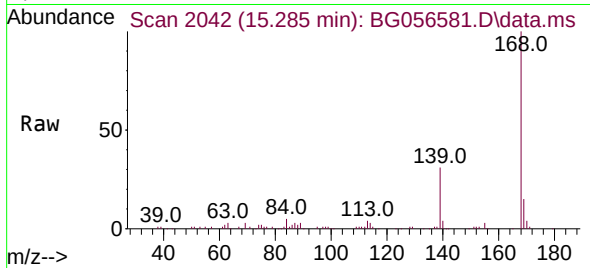
Tgt Ion:154 Resp: 61884
Ion Ratio Lower Upper
154 100
153 120.9 93.4 140.0
152 56.1 43.4 65.2





#55
Dibenzofuran
Concen: 7.740 ng
RT: 15.285 min Scan# 2044
Delta R.T. 0.000 min
Lab File: BG056581.D
Acq: 8 Feb 2023 14:23

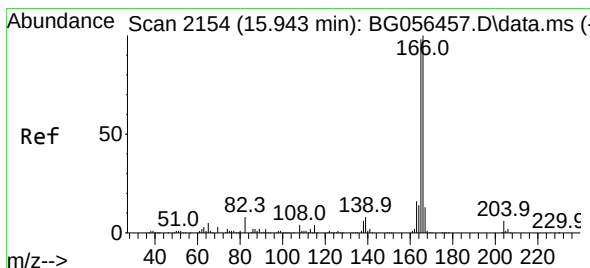
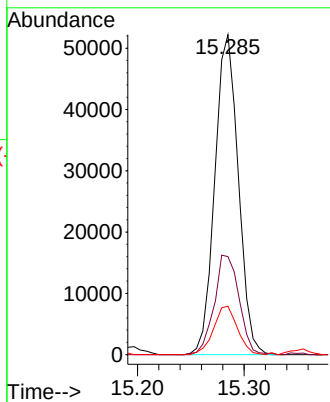
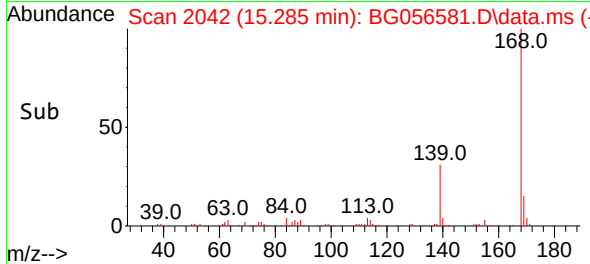
Instrument :
BNA_G
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SU-04-02072023



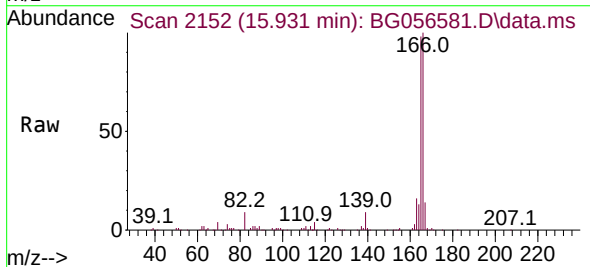
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Ion Ratio Lower Upper
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139 30.6 26.2 39.2
169 15.1 11.0 16.6

Manual Integrations
APPROVED

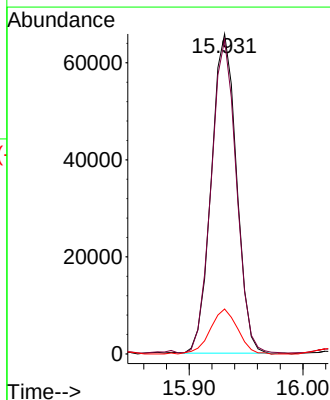
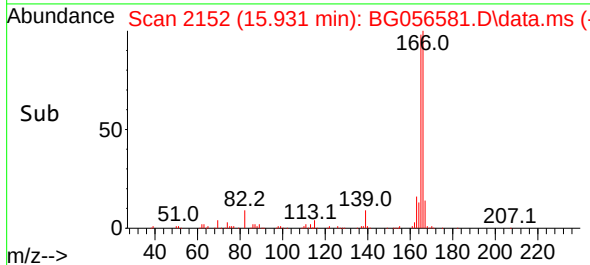
Reviewed By :Christian Giraldo 02/09/2023
Supervised By :Jagrut Upadhyay 02/09/2023

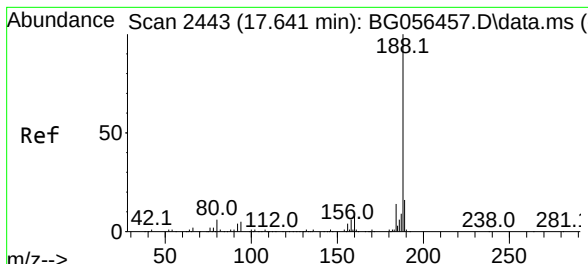


#58
Fluorene
Concen: 12.270 ng
RT: 15.931 min Scan# 2152
Delta R.T. 0.000 min
Lab File: BG056581.D
Acq: 8 Feb 2023 14:23



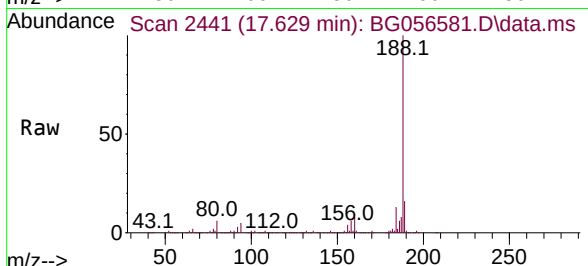
Tgt Ion:166 Resp: 100902
Ion Ratio Lower Upper
166 100
165 98.2 78.8 118.2
167 14.0 10.6 15.8





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.629 min Scan# 2443
Delta R.T. 0.000 min
Lab File: BG056581.D
Acq: 8 Feb 2023 14:23

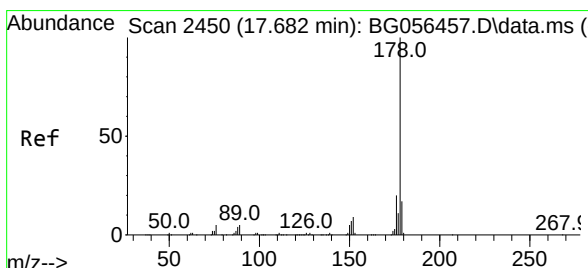
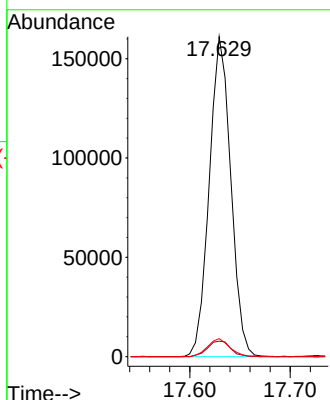
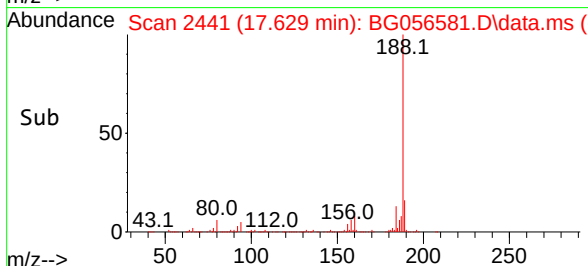
Instrument :
BNA_G
ClientSampleId :
SU-04-02072023



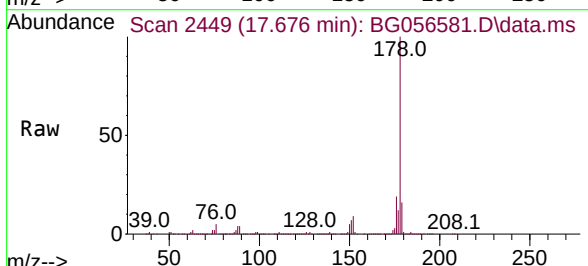
Tgt Ion:188 Resp: 240352
Ion Ratio Lower Upper
188 100
94 4.8 4.1 6.1
80 5.6 5.0 7.4

Manual Integrations
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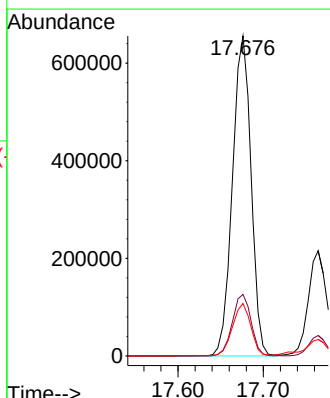
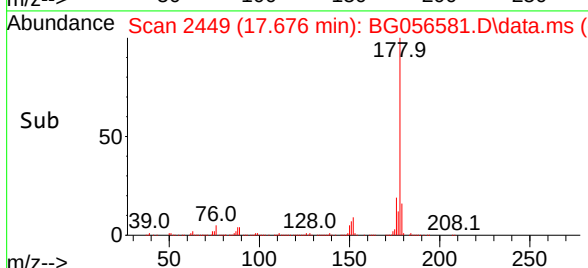
Reviewed By :Christian Giraldo 02/09/2023
Supervised By :Jagrut Upadhyay 02/09/2023

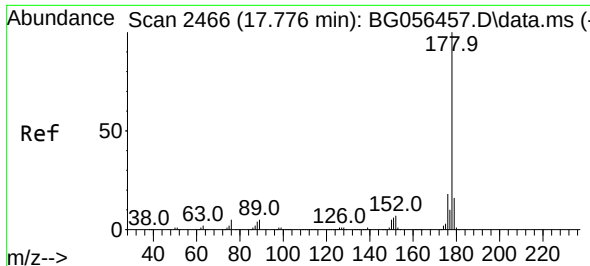


#71
Phenanthrene
Concen: 78.845 ng
RT: 17.676 min Scan# 2449
Delta R.T. 0.006 min
Lab File: BG056581.D
Acq: 8 Feb 2023 14:23



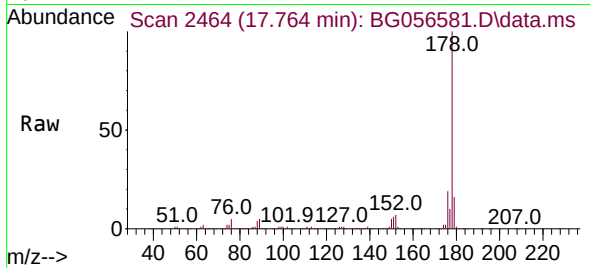
Tgt Ion:178 Resp: 991862
Ion Ratio Lower Upper
178 100
176 19.2 15.6 23.4
179 16.4 13.3 19.9





#72
 Anthracene
 Concen: 24.259 ng
 RT: 17.764 min Scan# 2466
 Delta R.T. 0.000 min
 Lab File: BG056581.D
 Acq: 8 Feb 2023 14:23

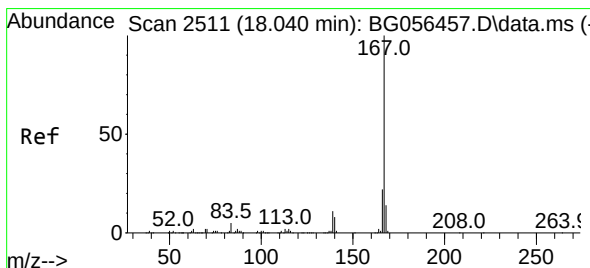
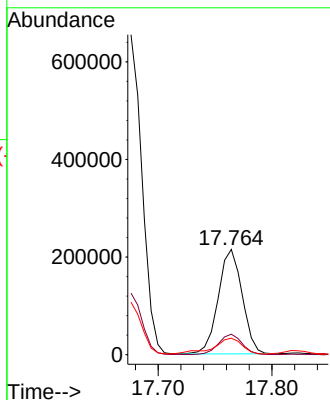
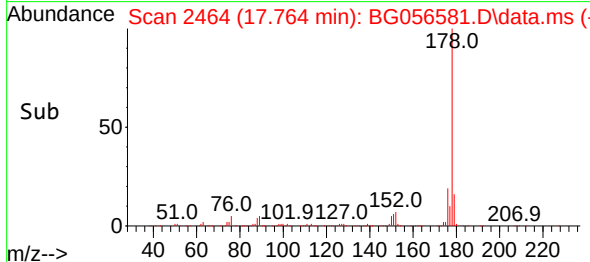
Instrument :
 BNA_G
 ClientSampleId :
 SU-04-02072023



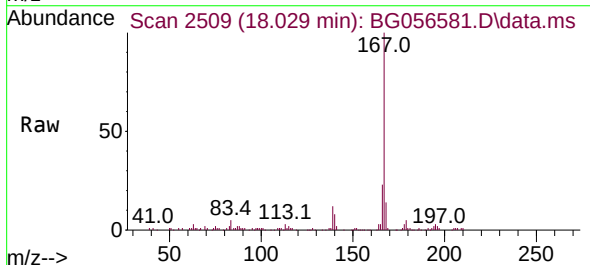
Tgt Ion:178 Resp: 313263
 Ion Ratio Lower Upper
 178 100
 176 19.3 14.5 21.7
 179 15.5 12.5 18.7

Manual Integrations
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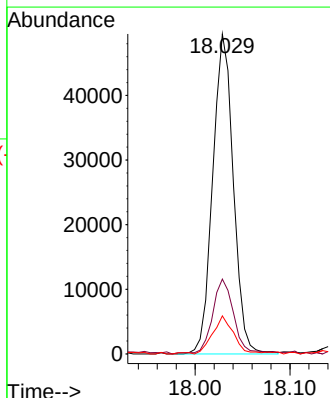
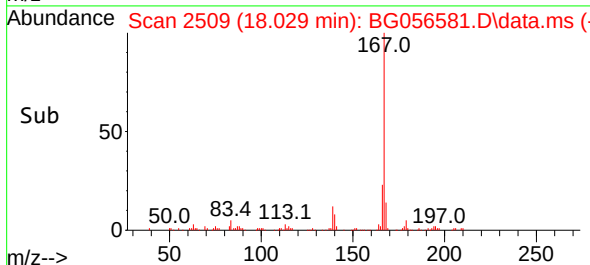
Reviewed By :Christian Giraldo 02/09/2023
 Supervised By :Jagrut Upadhyay 02/09/2023

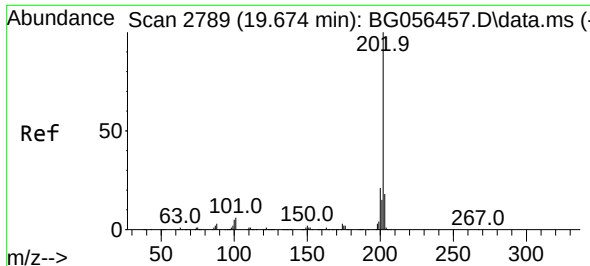


#73
 Carbazole
 Concen: 6.807 ng
 RT: 18.029 min Scan# 2509
 Delta R.T. 0.000 min
 Lab File: BG056581.D
 Acq: 8 Feb 2023 14:23



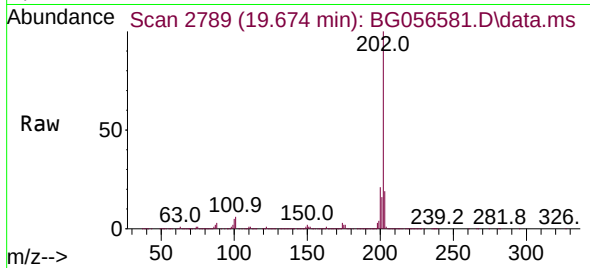
Tgt Ion:167 Resp: 74861
 Ion Ratio Lower Upper
 167 100
 166 23.4 17.8 26.6
 139 11.9 8.9 13.3





#75
Fluoranthene
Concen: 99.235 ng
RT: 19.674 min Scan# 21
Delta R.T. 0.006 min
Lab File: BG056581.D
Acq: 8 Feb 2023 14:23

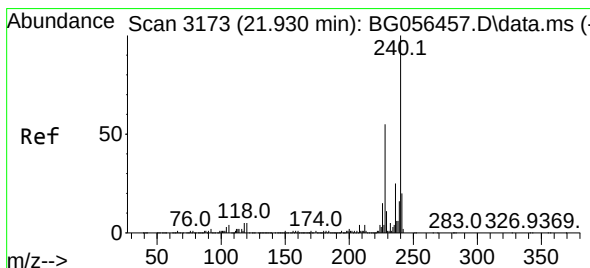
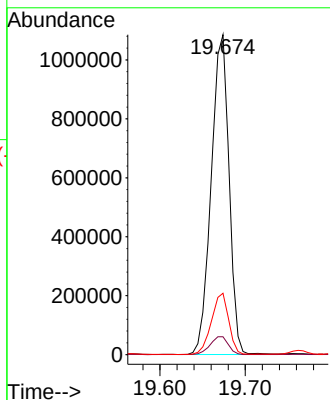
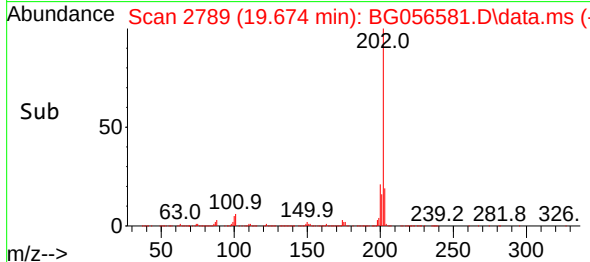
Instrument :
BNA_G
ClientSampleId :
SU-04-02072023



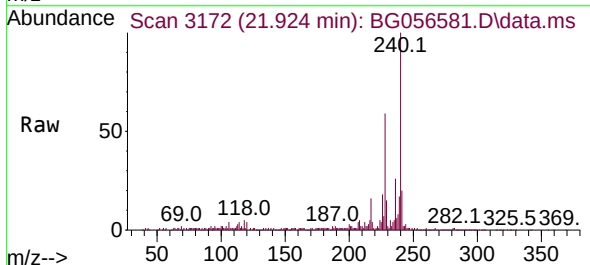
Tgt Ion:202 Resp: 1575586
Ion Ratio Lower Upper
202 100
101 5.6 0.0 25.6
203 19.2 0.0 38.1

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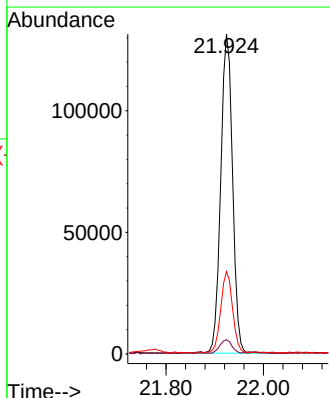
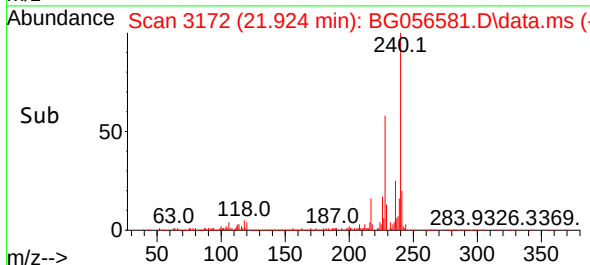
Reviewed By :Christian Giraldo 02/09/2023
Supervised By :Jagrut Upadhyay 02/09/2023

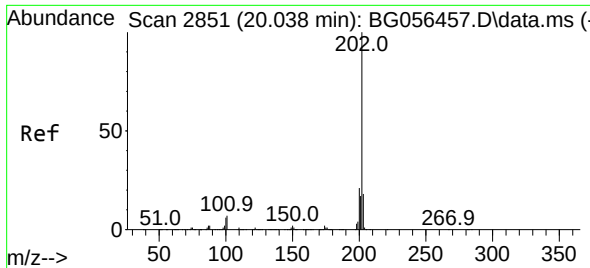


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.924 min Scan# 3172
Delta R.T. 0.000 min
Lab File: BG056581.D
Acq: 8 Feb 2023 14:23



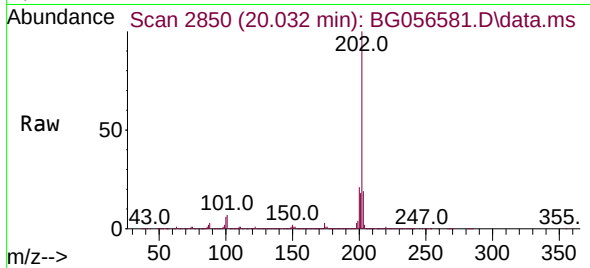
Tgt Ion:240 Resp: 220551
Ion Ratio Lower Upper
240 100
120 4.4 3.8 5.8
236 25.7 20.2 30.2





#78
Pyrene
Concen: 83.146 ng
RT: 20.032 min Scan# 2851
Delta R.T. 0.006 min
Lab File: BG056581.D
Acq: 8 Feb 2023 14:23

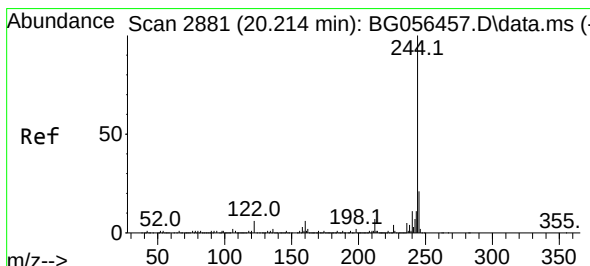
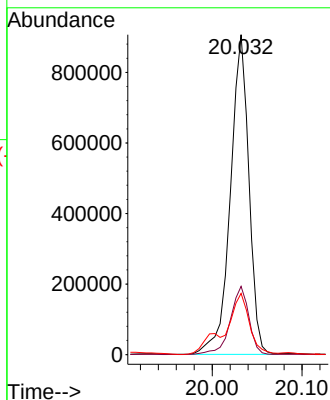
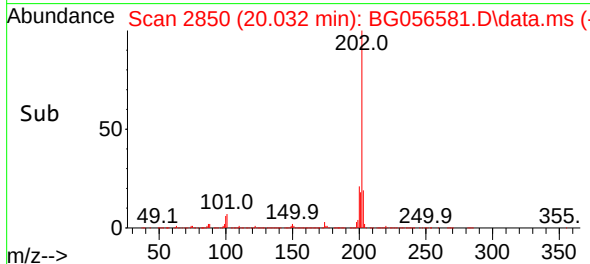
Instrument :
BNA_G
ClientSampleId :
SU-04-02072023



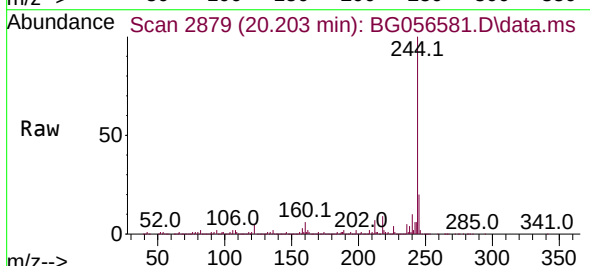
Tgt Ion:202 Resp: 1304225
Ion Ratio Lower Upper
202 100
200 21.3 16.7 25.1
203 19.1 14.4 21.6

Manual Integrations
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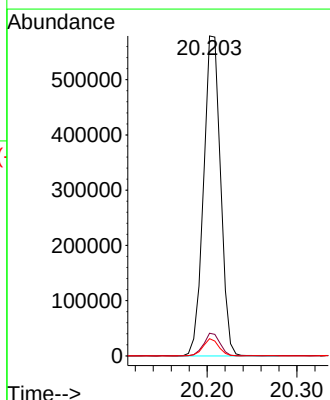
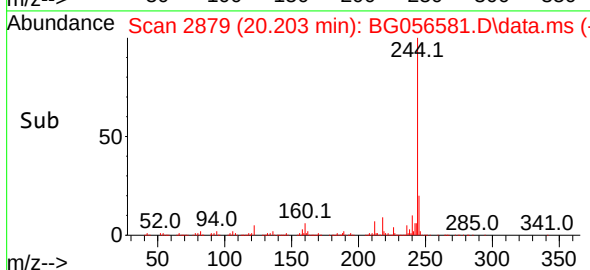
Reviewed By :Christian Giraldo 02/09/2023
Supervised By :Jagrut Upadhyay 02/09/2023

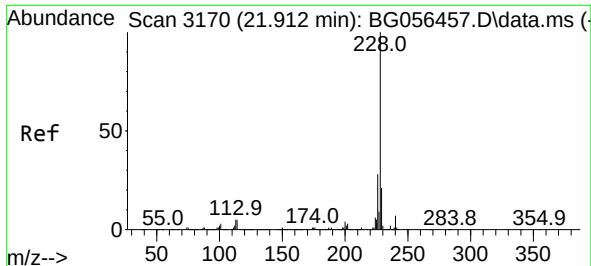


#79
Terphenyl-d14
Concen: 60.581 ng
RT: 20.203 min Scan# 2879
Delta R.T. -0.006 min
Lab File: BG056581.D
Acq: 8 Feb 2023 14:23



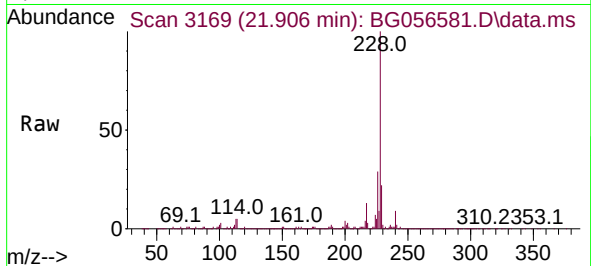
Tgt Ion:244 Resp: 760730
Ion Ratio Lower Upper
244 100
212 7.1 5.5 8.3
122 5.4 4.4 6.6





#81
Benzo(a)anthracene
Concen: 46.452 ng
RT: 21.906 min Scan# 3170
Delta R.T. 0.006 min
Lab File: BG056581.D
Acq: 8 Feb 2023 14:23

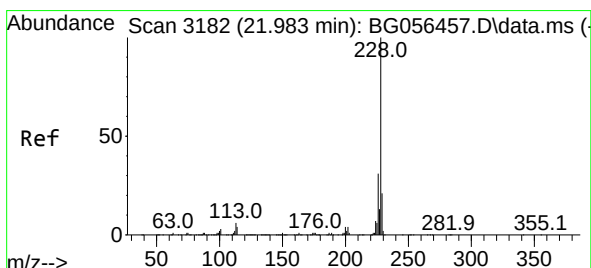
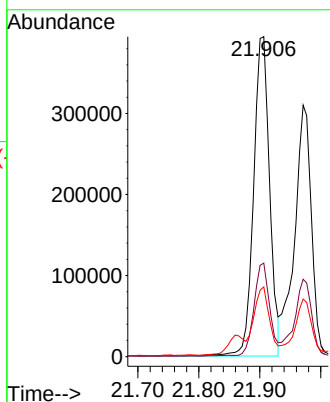
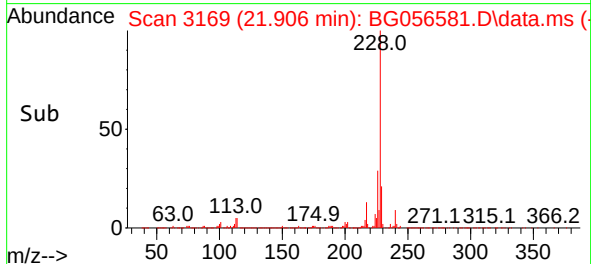
Instrument :
BNA_G
ClientSampleId :
SU-04-02072023



Tgt Ion:228 Resp: 716247
Ion Ratio Lower Upper
228 100
226 29.3 22.4 33.6
229 21.8 16.5 24.7

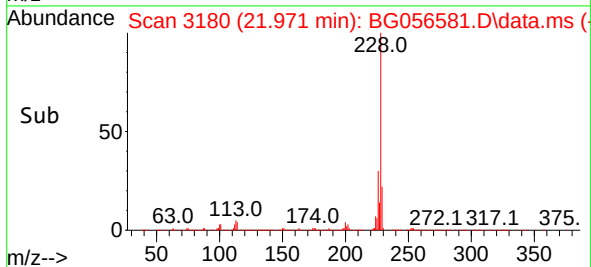
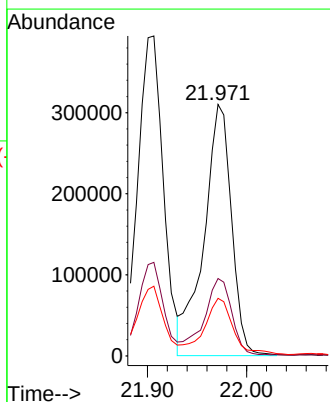
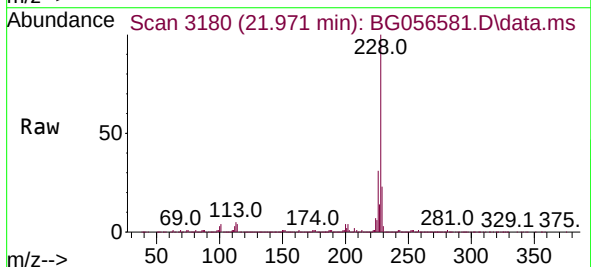
Manual Integrations
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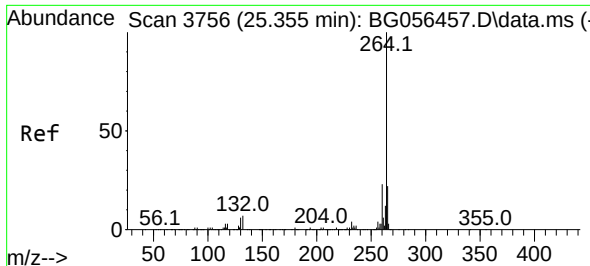
Reviewed By :Christian Giraldo 02/09/2023
Supervised By :Jagrut Upadhyay 02/09/2023



#83
Chrysene
Concen: 41.477 ng m
RT: 21.971 min Scan# 3180
Delta R.T. 0.000 min
Lab File: BG056581.D
Acq: 8 Feb 2023 14:23

Tgt Ion:228 Resp: 600835
Ion Ratio Lower Upper
228 100
226 30.8 25.0 37.4
229 22.9 16.4 24.6





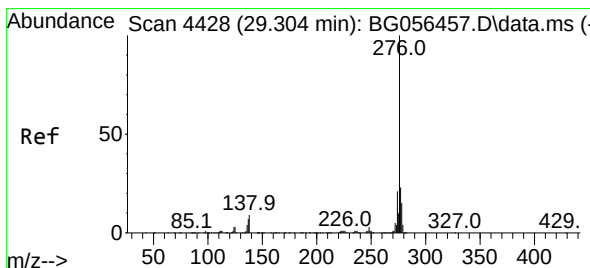
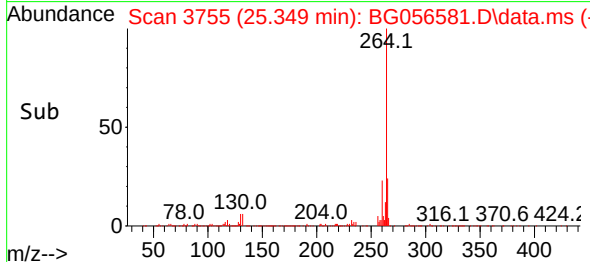
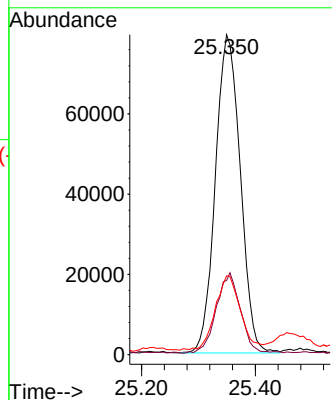
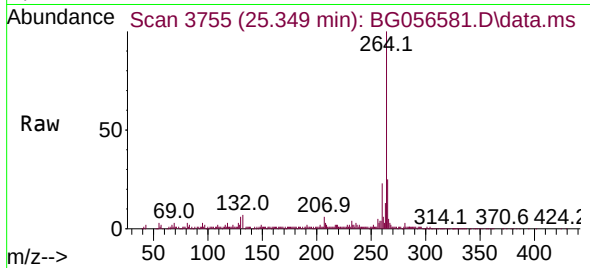
#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 25.349 min Scan# 31
 Delta R.T. 0.012 min
 Lab File: BG056581.D
 Acq: 8 Feb 2023 14:23

Instrument :
 BNA_G
 ClientSampleId :
 SU-04-02072023

Tgt Ion:264 Resp: 241387
 Ion Ratio Lower Upper
 264 100
 260 23.2 18.2 27.4
 265 24.6 18.1 27.1

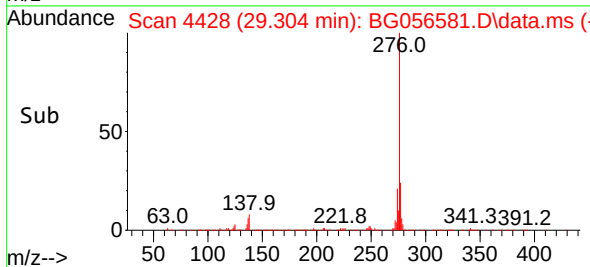
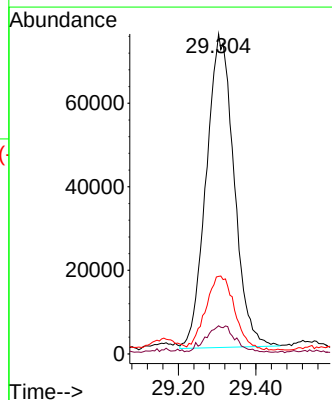
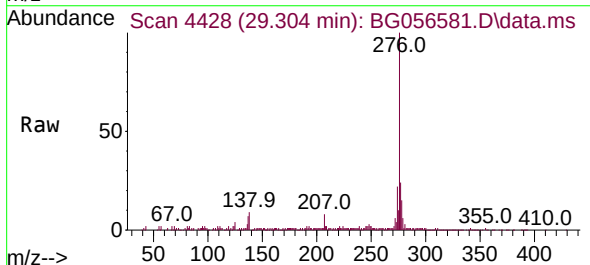
Manual Integrations
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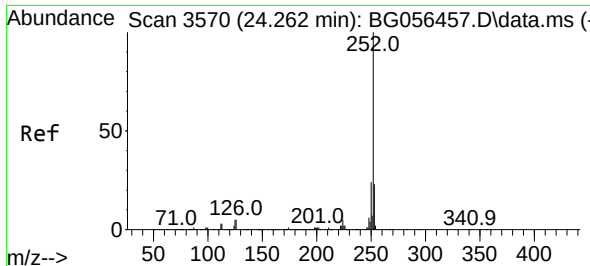
Reviewed By :Christian Giraldo 02/09/2023
 Supervised By :Jagrut Upadhyay 02/09/2023



#87
 Indeno(1,2,3-cd)pyrene
 Concen: 21.098 ng
 RT: 29.304 min Scan# 4428
 Delta R.T. 0.018 min
 Lab File: BG056581.D
 Acq: 8 Feb 2023 14:23

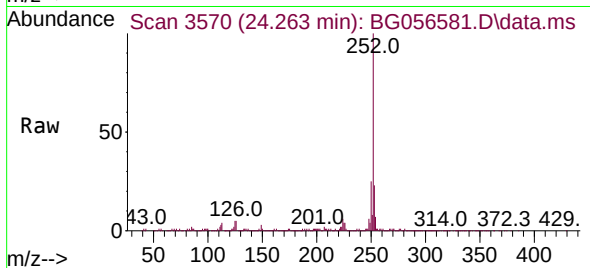
Tgt Ion:276 Resp: 372794
 Ion Ratio Lower Upper
 276 100
 138 8.6 9.4 14.2#
 277 24.5 20.3 30.5





#88
Benzo(b)fluoranthene
Concen: 52.265 ng
RT: 24.263 min Scan# 3570
Delta R.T. 0.012 min
Lab File: BG056581.D
Acq: 8 Feb 2023 14:23

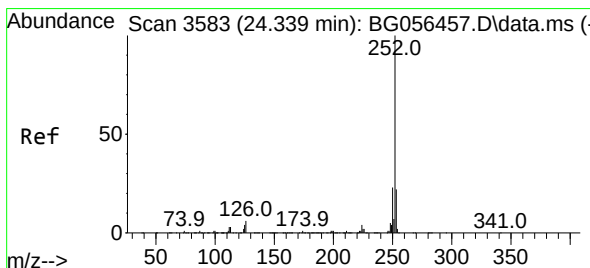
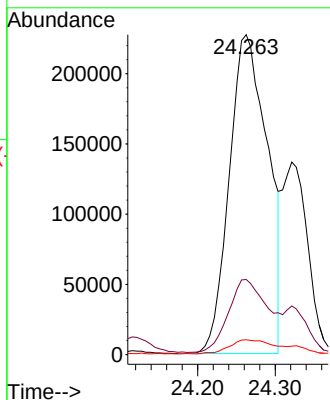
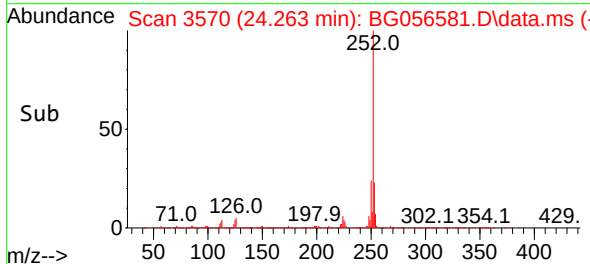
Instrument :
BNA_G
ClientSampleId :
SU-04-02072023



Tgt Ion:252 Resp: 783071
Ion Ratio Lower Upper
252 100
253 23.5 18.1 27.1
125 4.6 3.9 5.9

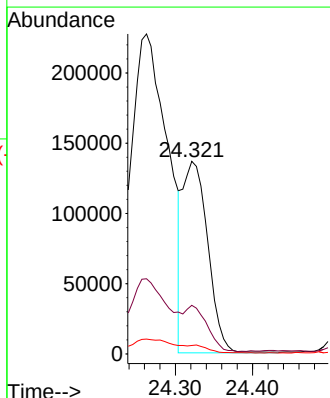
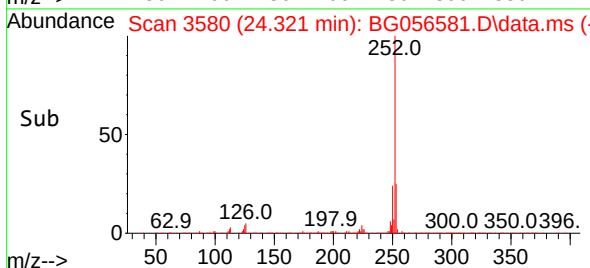
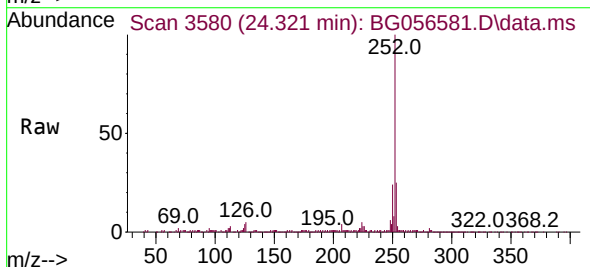
Manual Integrations
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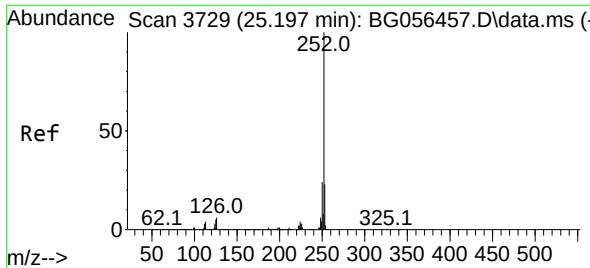
Reviewed By :Christian Giraldo 02/09/2023
Supervised By :Jagrut Upadhyay 02/09/2023



#89
Benzo(k)fluoranthene
Concen: 20.277 ng m
RT: 24.321 min Scan# 3580
Delta R.T. 0.000 min
Lab File: BG056581.D
Acq: 8 Feb 2023 14:23

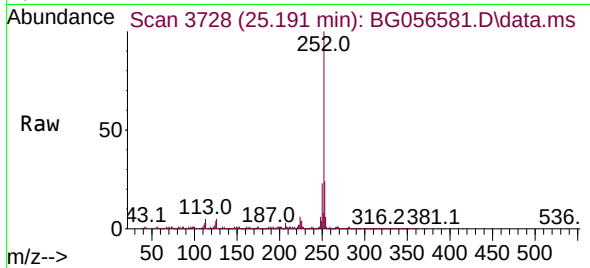
Tgt Ion:252 Resp: 306724
Ion Ratio Lower Upper
252 100
253 25.2 17.5 26.3
125 4.4 3.4 5.0





#90
Benzo(a)pyrene
Concen: 41.974 ng
RT: 25.191 min Scan# 31
Delta R.T. 0.012 min
Lab File: BG056581.D
Acq: 8 Feb 2023 14:23

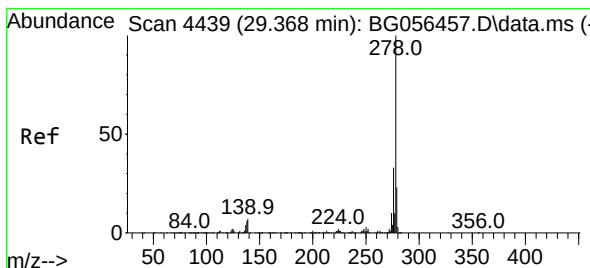
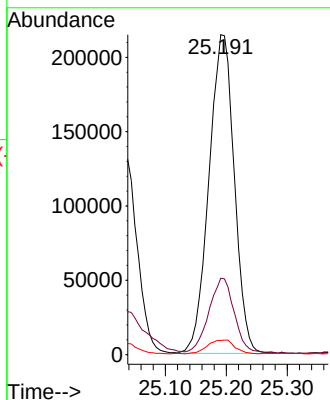
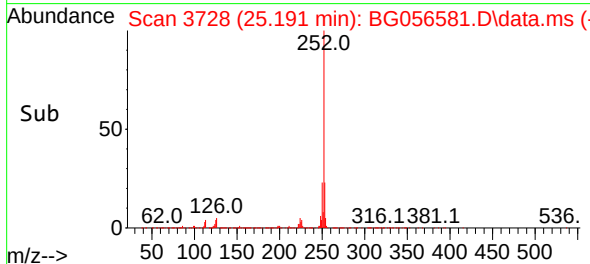
Instrument :
BNA_G
ClientSampleId :
SU-04-02072023



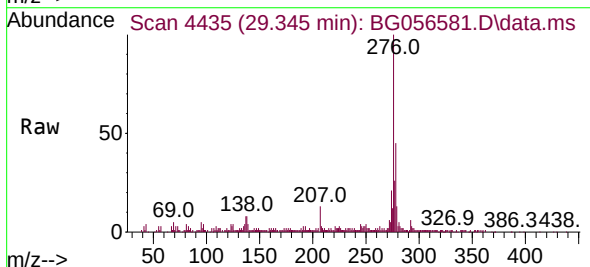
Tgt Ion:252 Resp: 619485
Ion Ratio Lower Upper
252 100
253 23.9 18.4 27.6
125 4.4 4.1 6.1

Manual Integrations
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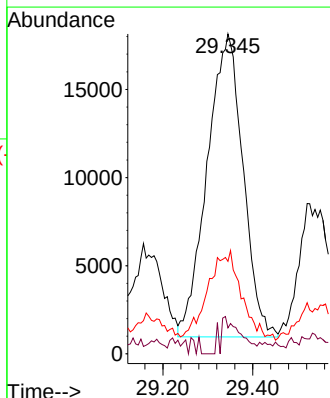
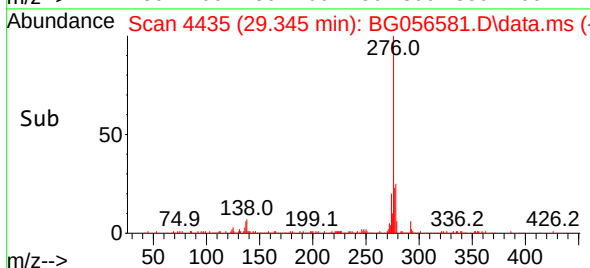
Reviewed By :Christian Giraldo 02/09/2023
Supervised By :Jagrut Upadhyay 02/09/2023

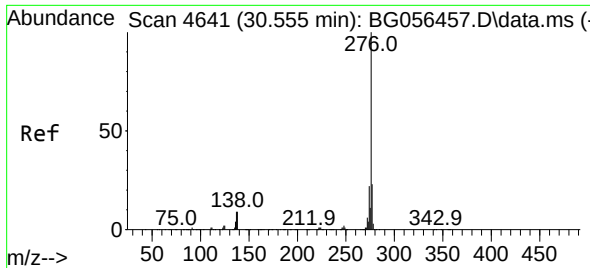


#91
Dibenzo(a,h)anthracene
Concen: 6.432 ng
RT: 29.345 min Scan# 4435
Delta R.T. 0.000 min
Lab File: BG056581.D
Acq: 8 Feb 2023 14:23



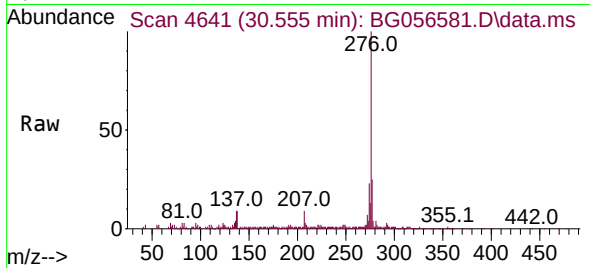
Tgt Ion:278 Resp: 95394
Ion Ratio Lower Upper
278 100
139 8.1 5.5 8.3
279 28.9 18.8 28.2#





#92
 Benzo(g,h,i)perylene
 Concen: 22.731 ng
 RT: 30.555 min Scan# 4641
 Delta R.T. 0.029 min
 Lab File: BG056581.D
 Acq: 8 Feb 2023 14:23

Instrument :
 BNA_G
 ClientSampleId :
 SU-04-02072023



Tgt Ion: 276 Resp: 325315

Ion	Ratio	Lower	Upper
276	100		
277	25.2	18.5	27.7
138	9.4	7.4	11.0

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 02/09/2023
 Supervised By : Jagrut Upadhyay 02/09/2023

