

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG011723\
 Data File : BG056320.D
 Acq On : 17 Jan 2023 19:29
 Operator : CG/JU
 Sample : 01167-01 5X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 EO-3-011623

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 01/18/2023
 Supervised By : Jagrut Upadhyay 01/18/2023

Quant Time: Jan 18 02:41:56 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 12 03:38:40 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.317	152	64785	20.000	ng	0.00
21) Naphthalene-d8	11.149	136	234245	20.000	ng	0.00
39) Acenaphthene-d10	14.933	164	162259	20.000	ng	0.00
64) Phenanthrene-d10	17.671	188	357150	20.000	ng	0.00
76) Chrysene-d12	21.966	240	343255	20.000	ng	# 0.00
86) Perylene-d12	25.433	264	295336	20.000	ng	0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.838	112	86829	23.930	ng	0.01
7) Phenol-d6	7.454	99	122423	21.970	ng	0.00
23) Nitrobenzene-d5	9.492	82	68244	14.902	ng	0.00
42) 2,4,6-Tribromophenol	16.408	330	41329	20.112	ng	0.00
45) 2-Fluorobiphenyl	13.558	172	184535	15.705	ng	0.00
79) Terphenyl-d14	20.244	244	289088	15.084	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	17.712	178	246249	13.305	ng	96
72) Anthracene	17.800	178	64697	3.389	ng	97
75) Fluoranthene	19.704	202	447318	18.528	ng	98
78) Pyrene	20.062	202	397647	16.436	ng	99
81) Benzo(a)anthracene	21.948	228	207010	8.586	ng	99
83) Chrysene	22.019	228	183845m	8.141	ng	
87) Indeno(1,2,3-cd)pyrene	29.387	276	57375m	2.671	ng	
88) Benzo(b)fluoranthene	24.328	252	202289	10.780	ng	# 85
89) Benzo(k)fluoranthene	24.375	252	94282m	5.046	ng	
90) Benzo(a)pyrene	25.262	252	142402	7.781	ng	# 86
92) Benzo(g,h,i)perylene	30.668	276	50750m	2.906	ng	

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

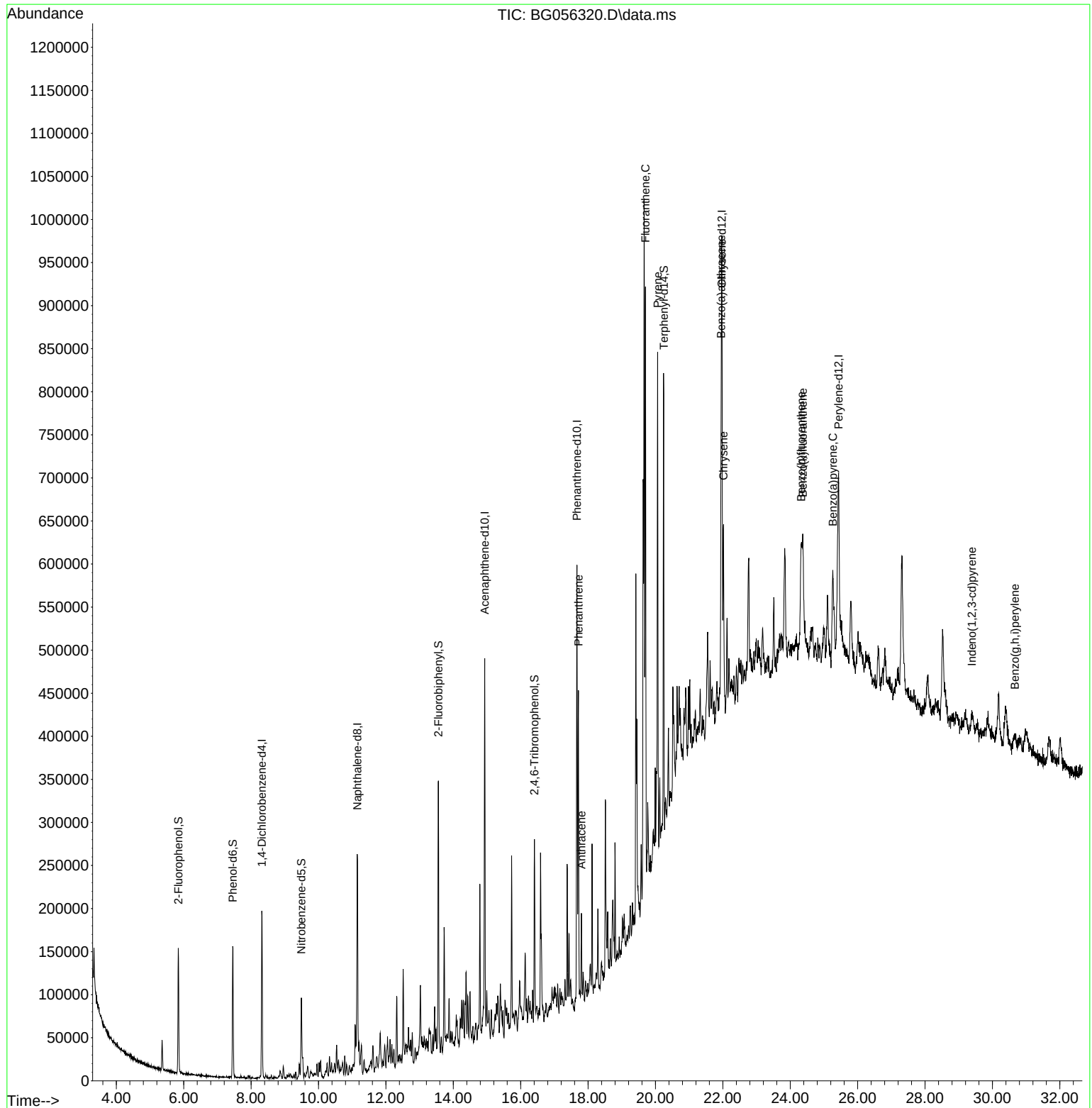
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG011723\
Data File : BG056320.D
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Sample : 01167-01 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

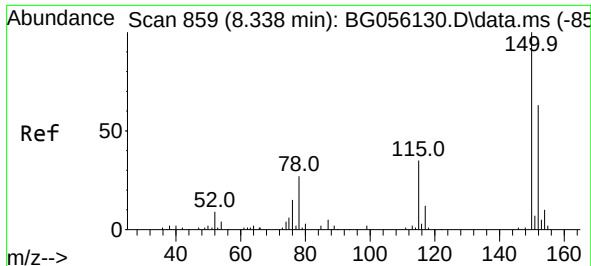
Instrument :
BNA_G
ClientSampleId :
EO-3-011623

Quant Time: Jan 18 02:41:56 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG122722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 12 03:38:40 2023
Response via : Initial Calibration

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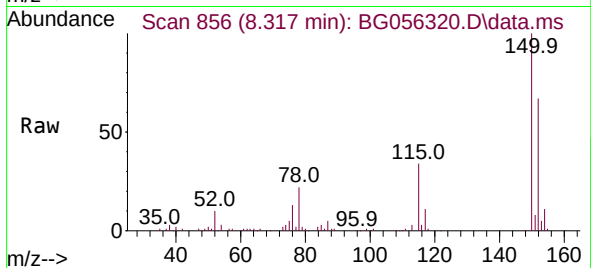
Reviewed By : Christian Giraldo 01/18/2023
Supervised By : Jagrut Upadhyay 01/18/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.317 min Scan# 859
Delta R.T. 0.000 min
Lab File: BG056320.D
Acq: 17 Jan 2023 19:29

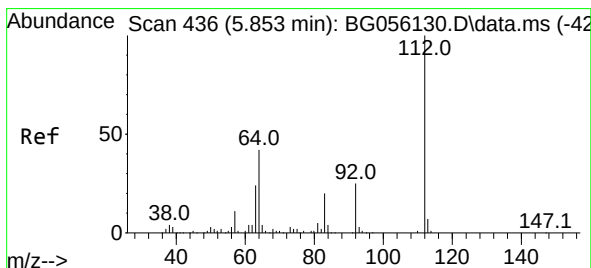
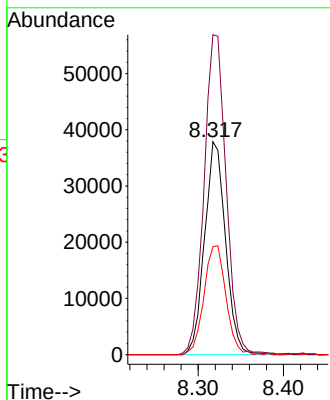
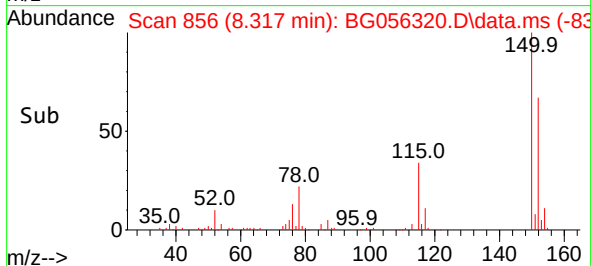
Instrument :
BNA_G
ClientSampleId :
EO-3-011623



Tgt Ion:152 Resp: 64785
Ion Ratio Lower Upper
152 100
150 150.4 127.9 191.9
115 50.7 44.2 66.2

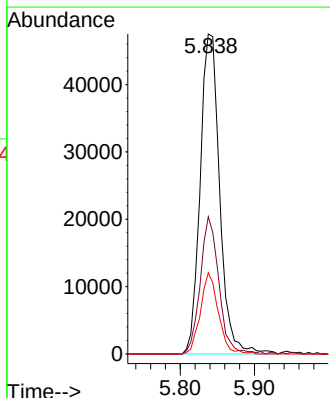
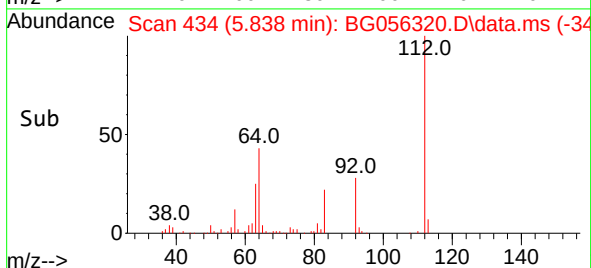
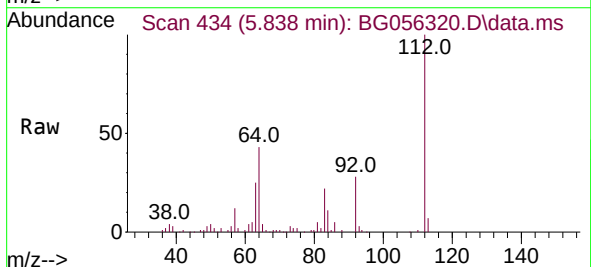
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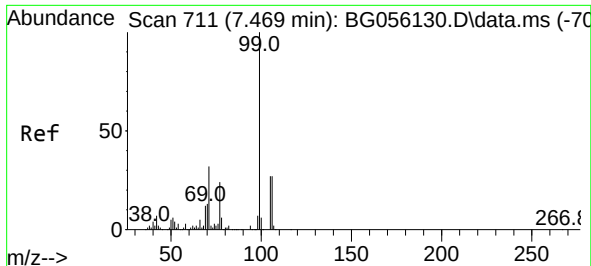
Reviewed By :Christian Giraldo 01/18/2023
Supervised By :Jagrut Upadhyay 01/18/2023



#5
2-Fluorophenol
Concen: 23.930 ng
RT: 5.838 min Scan# 434
Delta R.T. 0.012 min
Lab File: BG056320.D
Acq: 17 Jan 2023 19:29

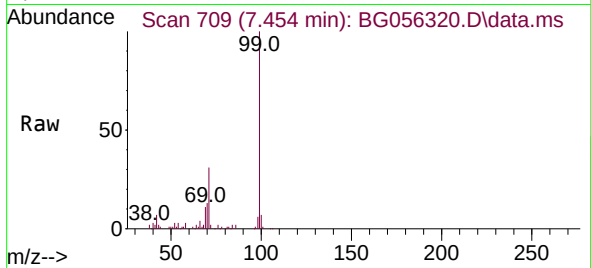
Tgt Ion:112 Resp: 86829
Ion Ratio Lower Upper
112 100
64 42.9 33.3 49.9
63 25.4 19.0 28.4





#7
Phenol-d6
Concen: 21.970 ng
RT: 7.454 min Scan# 70
Delta R.T. 0.006 min
Lab File: BG056320.D
Acq: 17 Jan 2023 19:29

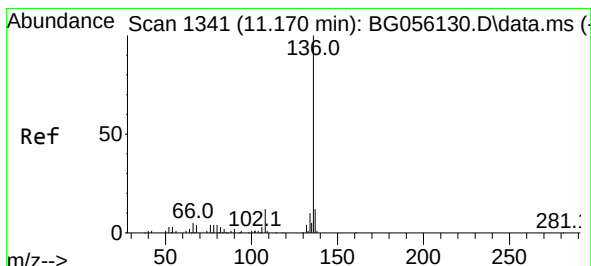
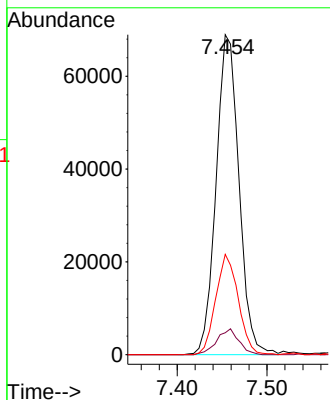
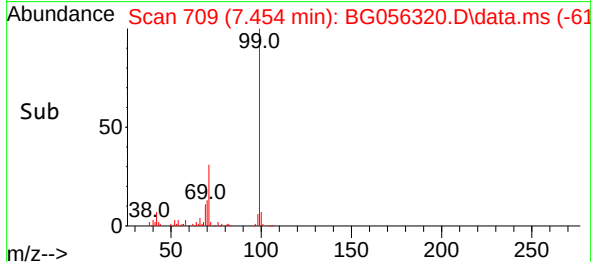
Instrument :
BNA_G
ClientSampleId :
EO-3-011623



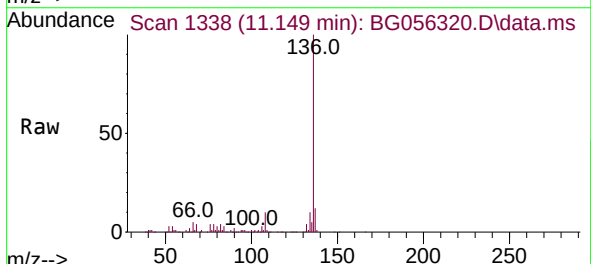
Tgt Ion: 99 Resp: 122423
Ion Ratio Lower Upper
99 100
42 6.8 5.9 8.9
71 31.3 25.4 38.2

Manual Integrations
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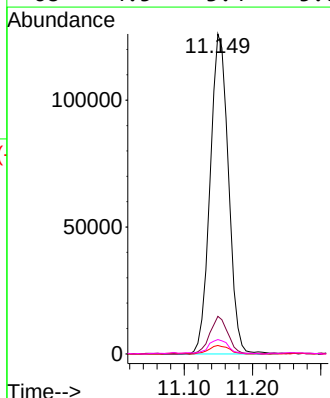
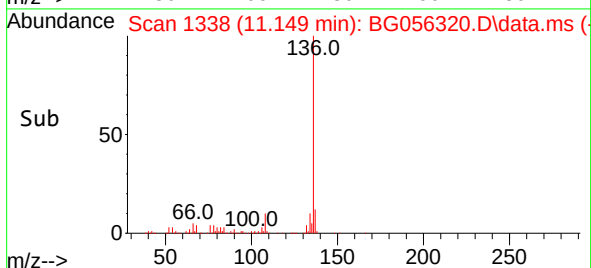
Reviewed By :Christian Giraldo 01/18/2023
Supervised By :Jagrut Upadhyay 01/18/2023

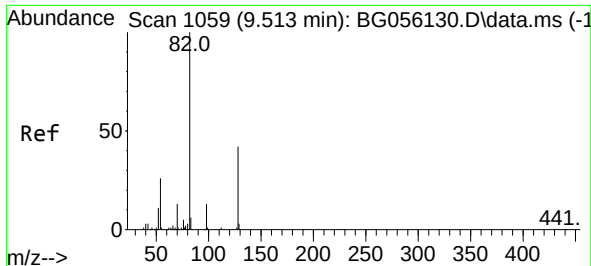


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.149 min Scan# 1338
Delta R.T. 0.001 min
Lab File: BG056320.D
Acq: 17 Jan 2023 19:29



Tgt Ion:136 Resp: 234245
Ion Ratio Lower Upper
136 100
137 11.7 9.4 14.0
54 2.6 2.2 3.2
68 4.5 3.4 5.0





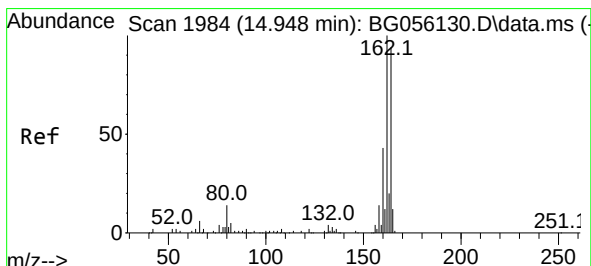
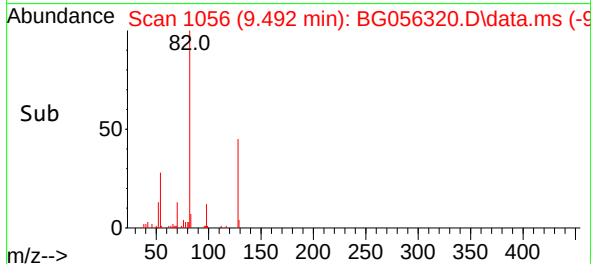
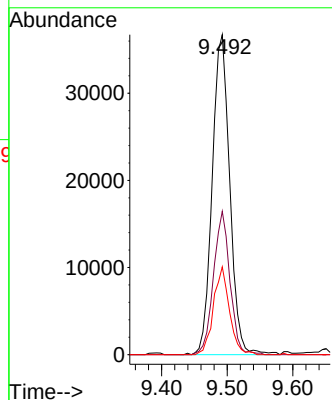
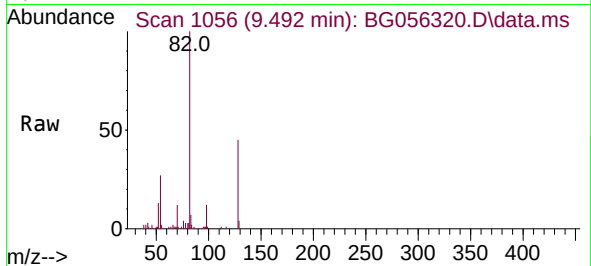
#23
Nitrobenzene-d5
Concen: 14.902 ng
RT: 9.492 min Scan# 1056
Delta R.T. 0.001 min
Lab File: BG056320.D
Acq: 17 Jan 2023 19:29

Instrument :
BNA_G
ClientSampleId :
EO-3-011623

Tgt Ion: 82 Resp: 68244
Ion Ratio Lower Upper
82 100
128 44.8 33.4 50.2
54 27.4 20.3 30.5

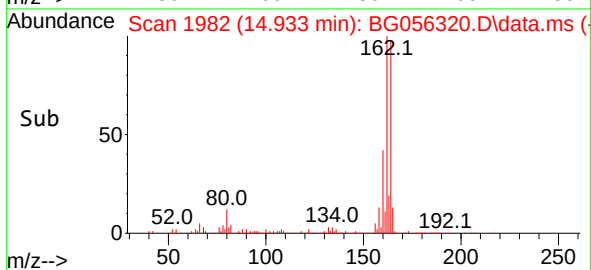
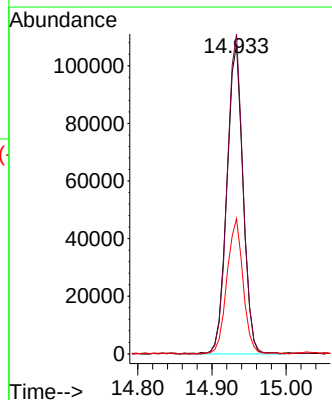
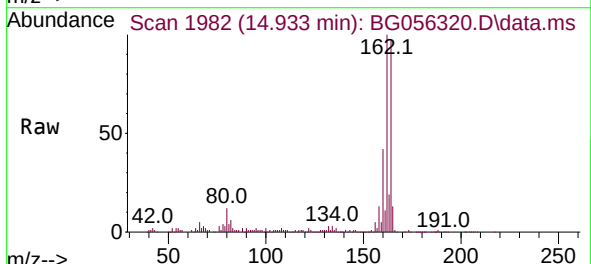
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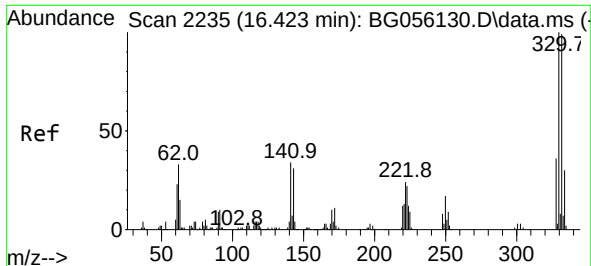
Reviewed By :Christian Giraldo 01/18/2023
Supervised By :Jagrut Upadhyay 01/18/2023



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.933 min Scan# 1982
Delta R.T. 0.006 min
Lab File: BG056320.D
Acq: 17 Jan 2023 19:29

Tgt Ion:164 Resp: 162259
Ion Ratio Lower Upper
164 100
162 103.3 84.7 127.1
160 43.7 36.3 54.5





#42

2,4,6-Tribromophenol

Concen: 20.112 ng

RT: 16.408 min Scan# 21

Delta R.T. 0.001 min

Lab File: BG056320.D

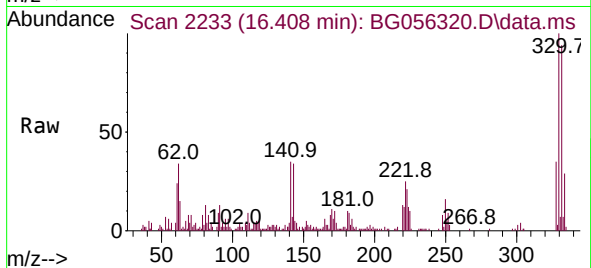
Acq: 17 Jan 2023 19:29

Instrument :

BNA_G

ClientSampleId :

EO-3-011623

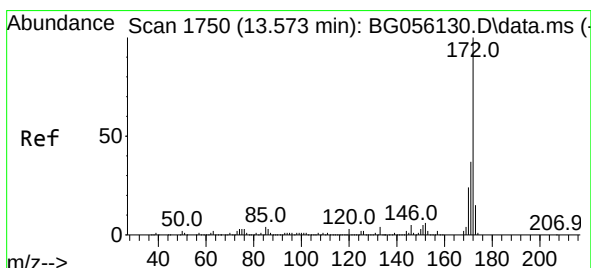
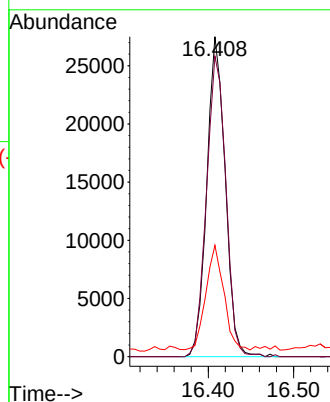
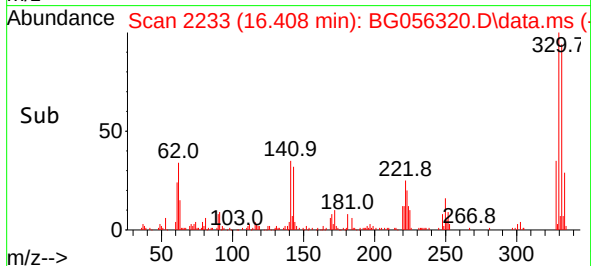


Tgt Ion:	330	Resp:	41329
Ion Ratio	Lower	Upper	
330	100		
332	98.4	77.3	115.9
141	31.8	27.9	41.9

Manual Integrations

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Supervised By :Jagrut Upadhyay 01/18/2023



#45

2-Fluorobiphenyl

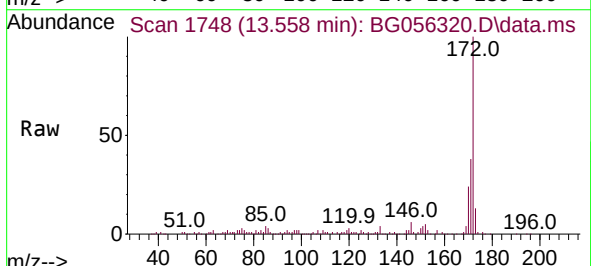
Concen: 15.705 ng

RT: 13.558 min Scan# 1748

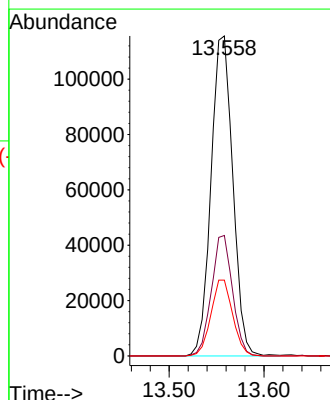
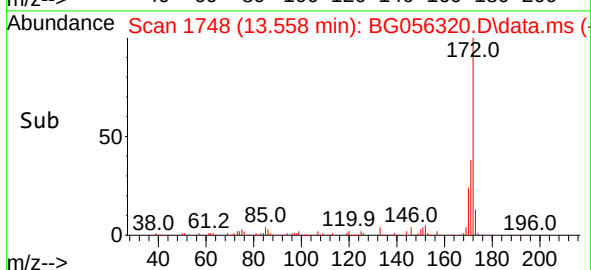
Delta R.T. 0.001 min

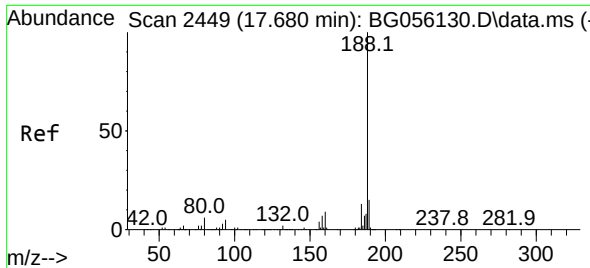
Lab File: BG056320.D

Acq: 17 Jan 2023 19:29



Tgt Ion:	172	Resp:	184535
Ion Ratio	Lower	Upper	
172	100		
171	37.6	29.6	44.4
170	23.7	19.4	29.2





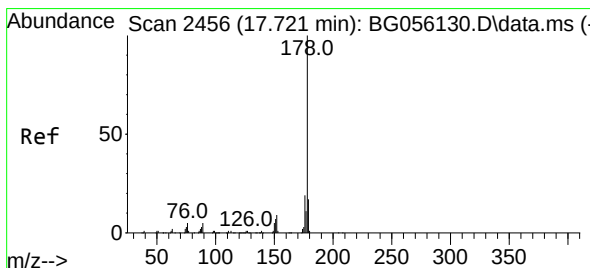
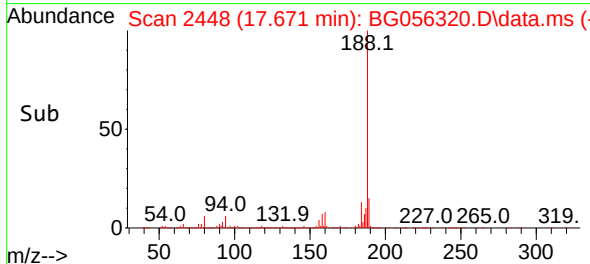
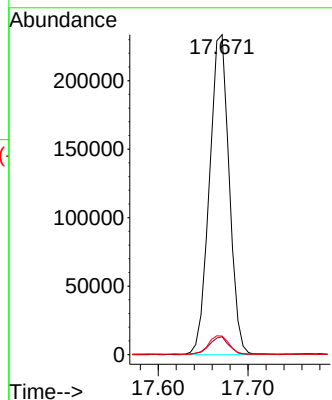
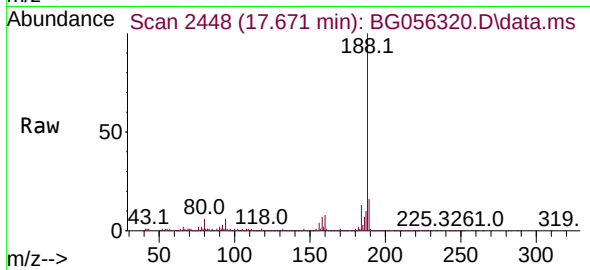
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.671 min Scan# 2449
Delta R.T. 0.006 min
Lab File: BG056320.D
Acq: 17 Jan 2023 19:29

Instrument :
BNA_G
ClientSampleId :
EO-3-011623

Tgt Ion:188 Resp: 357150
Ion Ratio Lower Upper
188 100
94 5.6 4.2 6.2
80 5.8 5.0 7.4

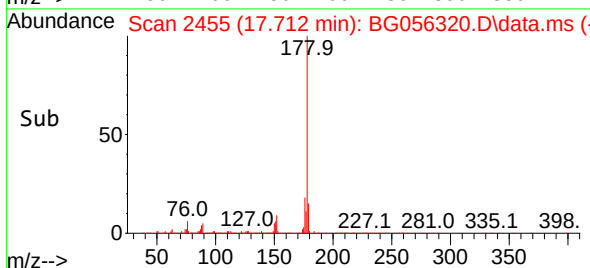
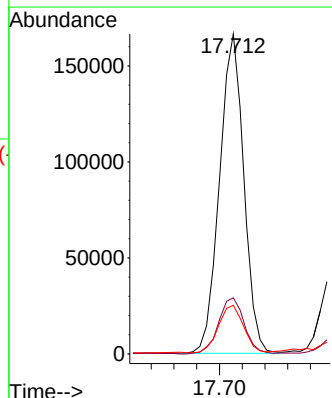
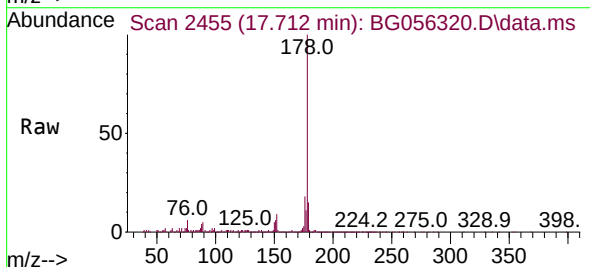
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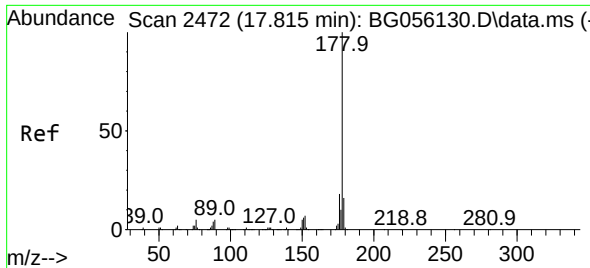
Reviewed By :Christian Giraldo 01/18/2023
Supervised By :Jagrut Upadhyay 01/18/2023



#71
Phenanthrene
Concen: 13.305 ng
RT: 17.712 min Scan# 2455
Delta R.T. 0.001 min
Lab File: BG056320.D
Acq: 17 Jan 2023 19:29

Tgt Ion:178 Resp: 246249
Ion Ratio Lower Upper
178 100
176 17.5 15.4 23.0
179 15.2 13.6 20.4





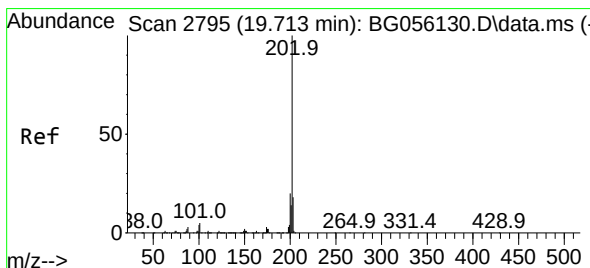
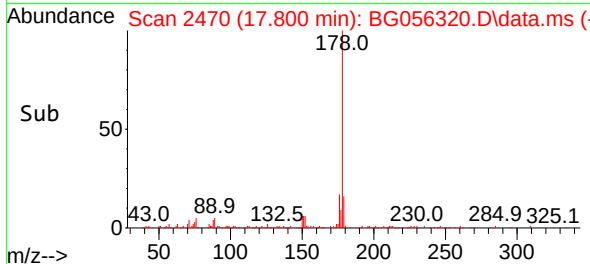
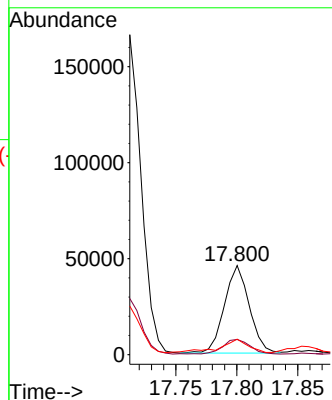
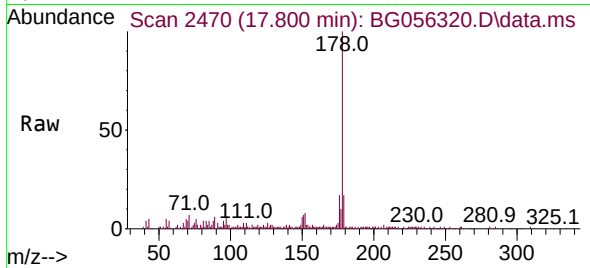
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 Anthracene
 Concen: 3.389 ng
 RT: 17.800 min Scan# 2472
 Delta R.T. 0.001 min
 Lab File: BG056320.D
 Acq: 17 Jan 2023 19:29

Instrument :
 BNA_G
 ClientSampleId :
 EO-3-011623

Tgt Ion:178 Resp: 64697
 Ion Ratio Lower Upper
 178 100
 176 16.9 14.6 22.0
 179 17.3 12.7 19.1

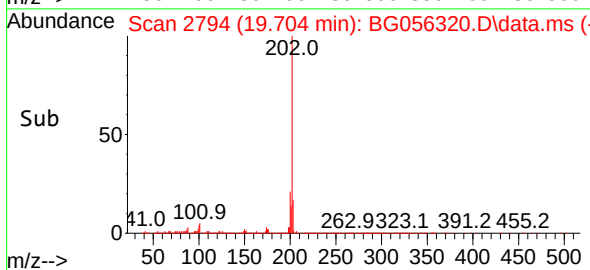
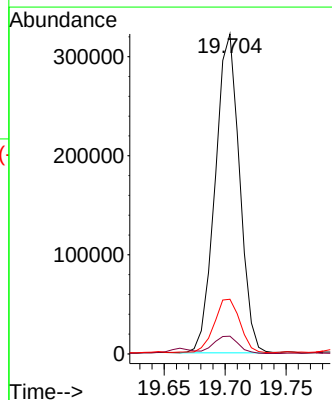
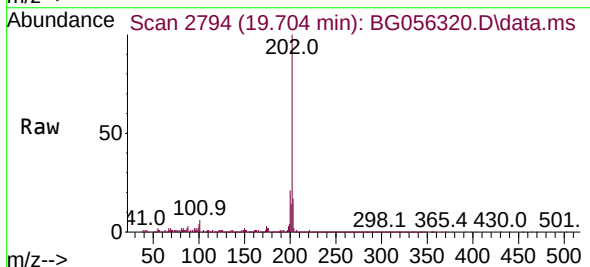
Manual Integrations
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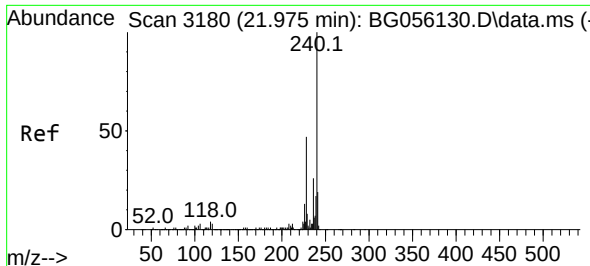
Reviewed By :Christian Giraldo 01/18/2023
 Supervised By :Jagrut Upadhyay 01/18/2023



#75
 Fluoranthene
 Concen: 18.528 ng
 RT: 19.704 min Scan# 2794
 Delta R.T. 0.006 min
 Lab File: BG056320.D
 Acq: 17 Jan 2023 19:29

Tgt Ion:202 Resp: 447318
 Ion Ratio Lower Upper
 202 100
 101 5.5 0.0 25.0
 203 17.1 0.0 38.0





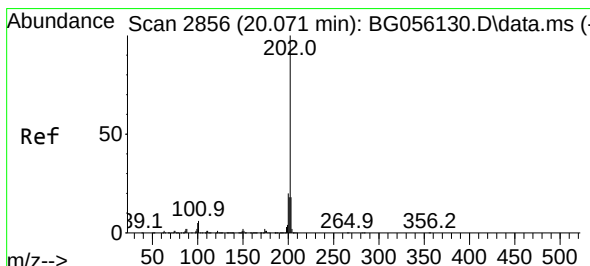
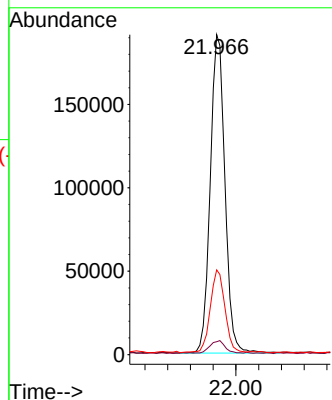
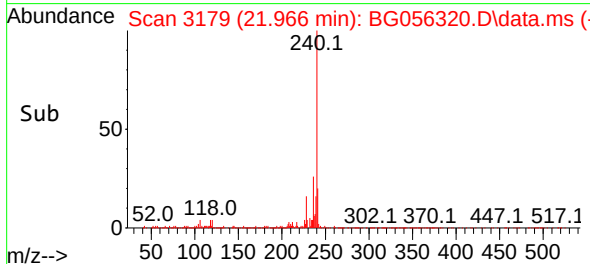
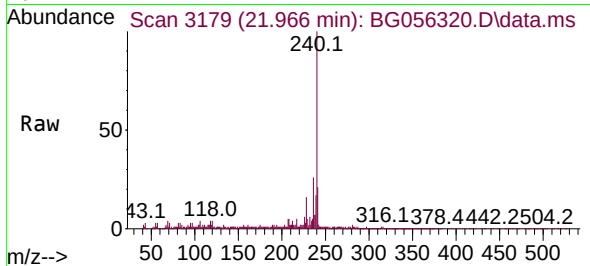
#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.966 min Scan# 3180
Delta R.T. 0.006 min
Lab File: BG056320.D
Acq: 17 Jan 2023 19:29

Instrument :
BNA_G
ClientSampleId :
EO-3-011623

Tgt Ion:240 Resp: 343255
Ion Ratio Lower Upper
240 100
120 4.0 2.6 4.0
236 26.5 20.8 31.2

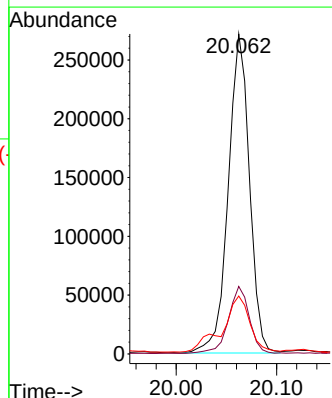
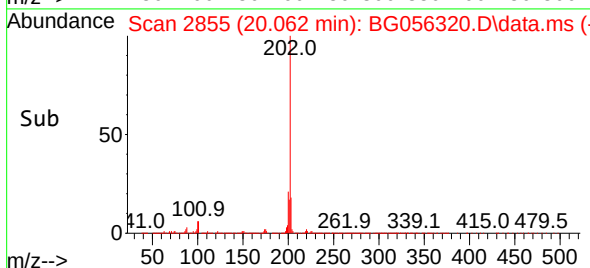
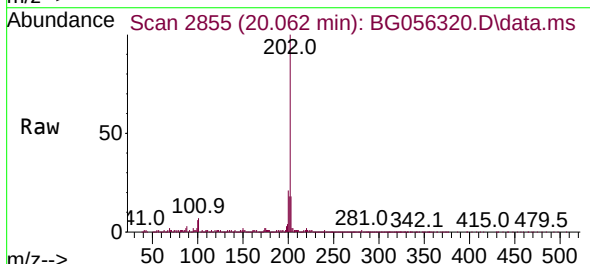
Manual Integrations
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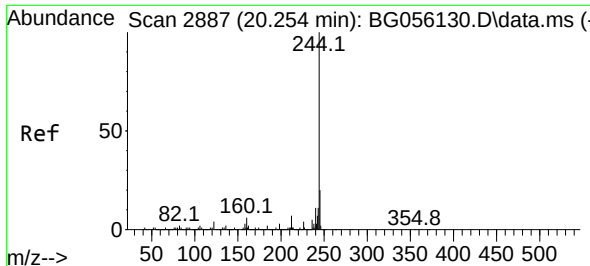
Reviewed By :Christian Giraldo 01/18/2023
Supervised By :Jagrut Upadhyay 01/18/2023



#78
Pyrene
Concen: 16.436 ng
RT: 20.062 min Scan# 2855
Delta R.T. 0.006 min
Lab File: BG056320.D
Acq: 17 Jan 2023 19:29

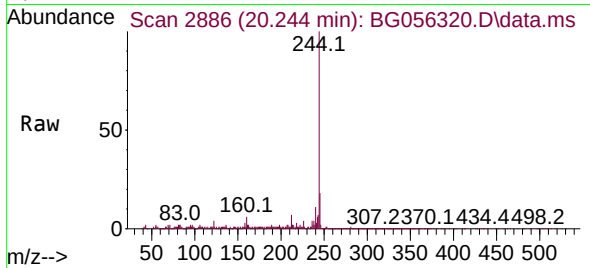
Tgt Ion:202 Resp: 397647
Ion Ratio Lower Upper
202 100
200 21.1 16.4 24.6
203 18.1 14.3 21.5





#79
 Terphenyl-d14
 Concen: 15.084 ng
 RT: 20.244 min Scan# 2887
 Delta R.T. 0.006 min
 Lab File: BG056320.D
 Acq: 17 Jan 2023 19:29

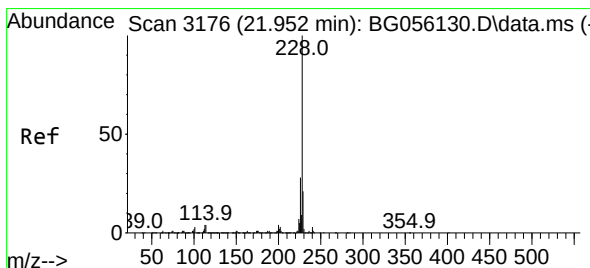
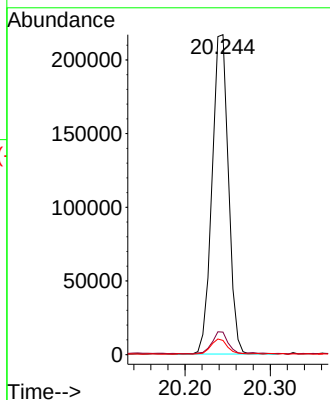
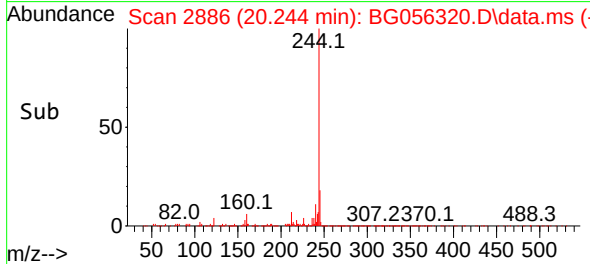
Instrument :
 BNA_G
 ClientSampleId :
 EO-3-011623



Tgt Ion:244 Resp: 289088
 Ion Ratio Lower Upper
 244 100
 212 7.0 5.7 8.5
 122 4.4 3.5 5.3

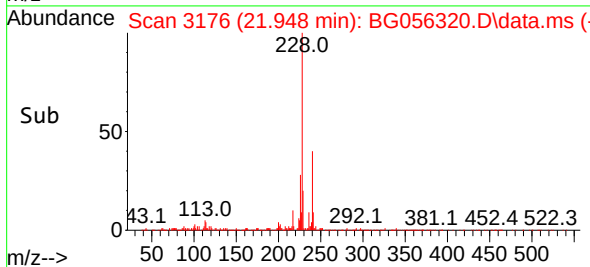
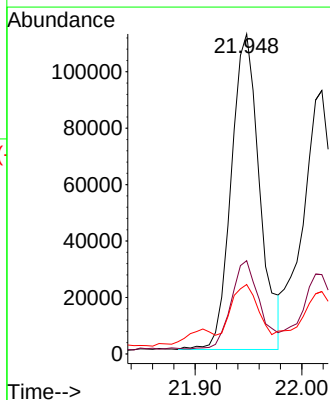
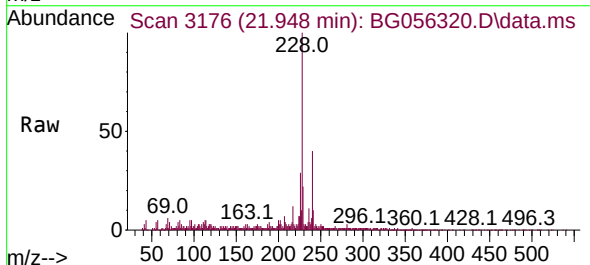
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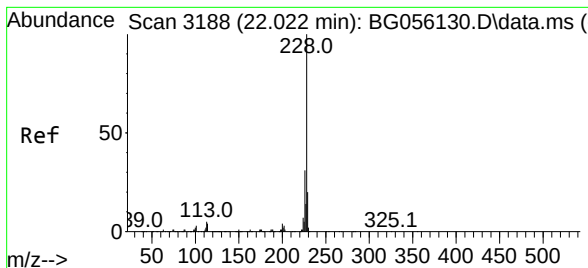
Reviewed By :Christian Giraldo 01/18/2023
 Supervised By :Jagrut Upadhyay 01/18/2023



#81
 Benzo(a)anthracene
 Concen: 8.586 ng
 RT: 21.948 min Scan# 3176
 Delta R.T. 0.006 min
 Lab File: BG056320.D
 Acq: 17 Jan 2023 19:29

Tgt Ion:228 Resp: 207010
 Ion Ratio Lower Upper
 228 100
 226 29.1 22.6 34.0
 229 21.7 16.9 25.3





#83

Chrysene

Concen: 8.141 ng m

RT: 22.019 min Scan# 3188

Delta R.T. 0.006 min

Lab File: BG056320.D

Acq: 17 Jan 2023 19:29

Instrument :

BNA_G

ClientSampleId :

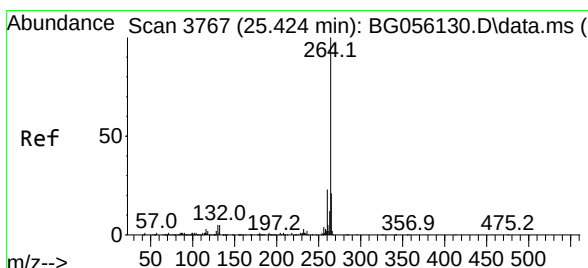
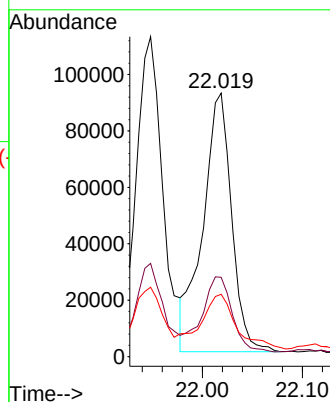
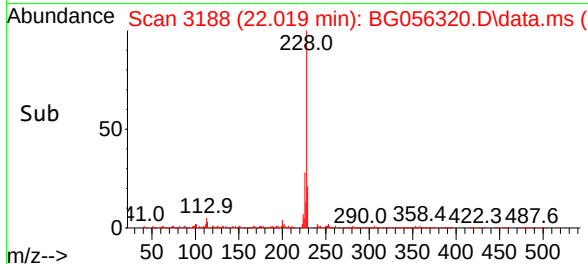
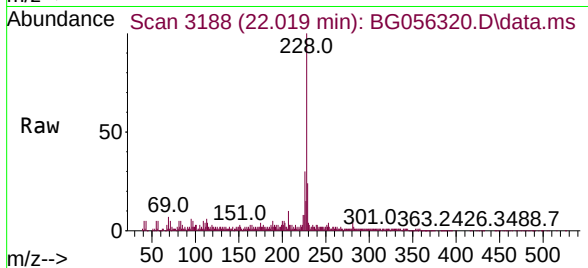
EO-3-011623

Tgt Ion:	228	Resp:	18384
Ion Ratio	Lower	Upper	
228	100		
226	30.1	24.6	36.8
229	23.7	15.8	23.6

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Reviewed By :Christian Giraldo 01/18/2023
Supervised By :Jagrut Upadhyay 01/18/2023



#86

Perylene-d12

Concen: 20.000 ng

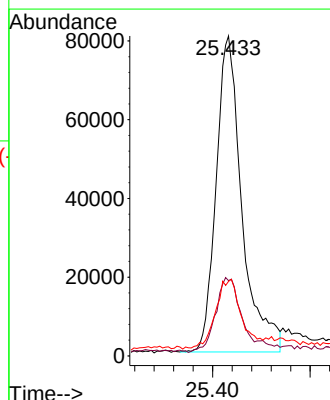
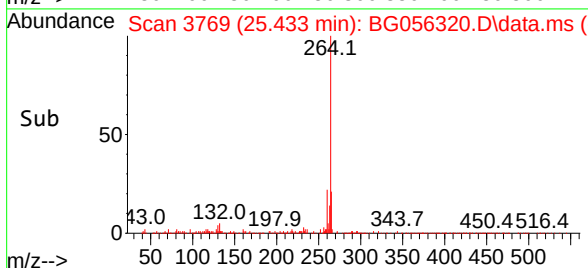
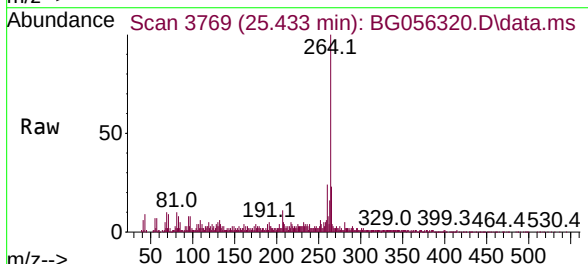
RT: 25.433 min Scan# 3769

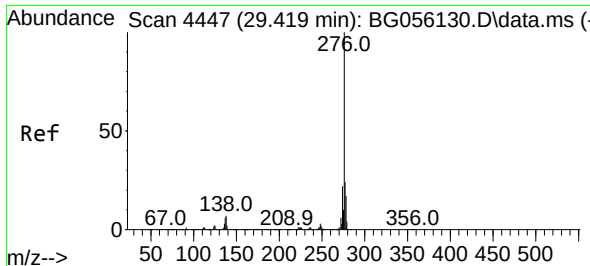
Delta R.T. 0.030 min

Lab File: BG056320.D

Acq: 17 Jan 2023 19:29

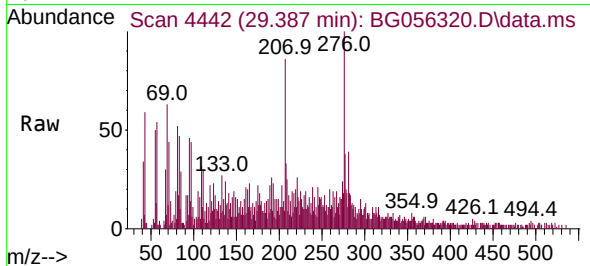
Tgt Ion:	264	Resp:	295336
Ion Ratio	Lower	Upper	
264	100		
260	23.5	18.6	28.0
265	23.3	16.7	25.1





#87
 Indeno(1,2,3-cd)pyrene
 Concen: 2.671 ng m
 RT: 29.387 min Scan# 4447
 Delta R.T. 0.024 min
 Lab File: BG056320.D
 Acq: 17 Jan 2023 19:29

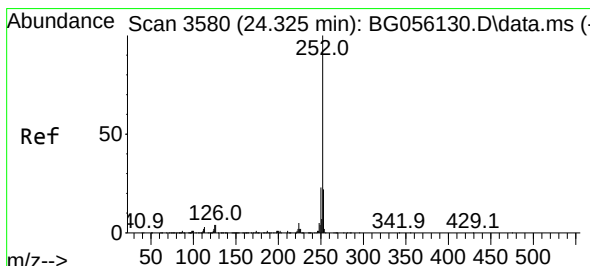
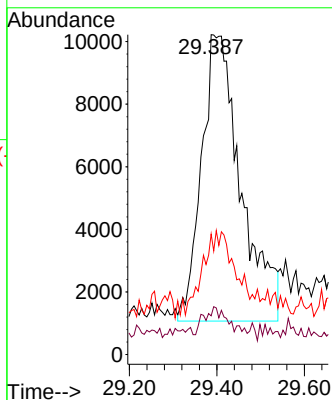
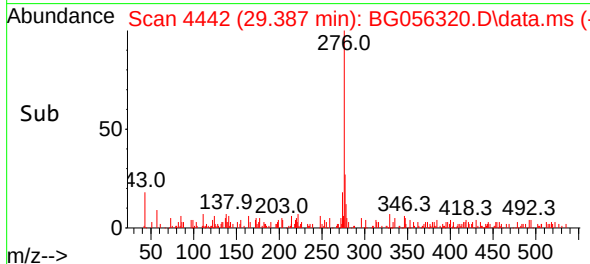
Instrument :
 BNA_G
 ClientSampleId :
 EO-3-011623



Tgt Ion: 276 Resp: 57375
 Ion Ratio Lower Upper
 276 100
 138 3.5 5.0 7.4#
 277 23.3 20.5 30.7

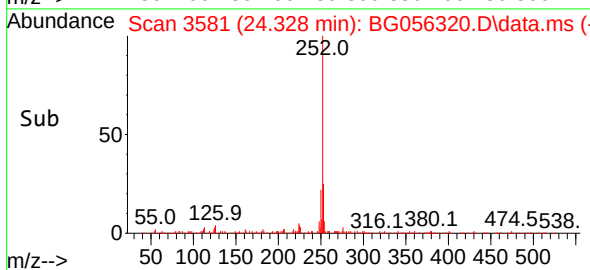
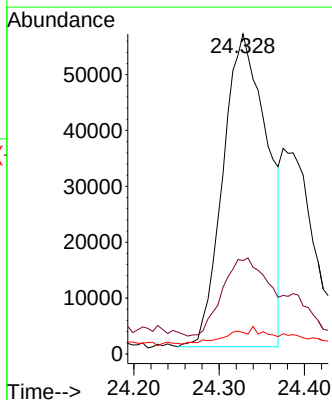
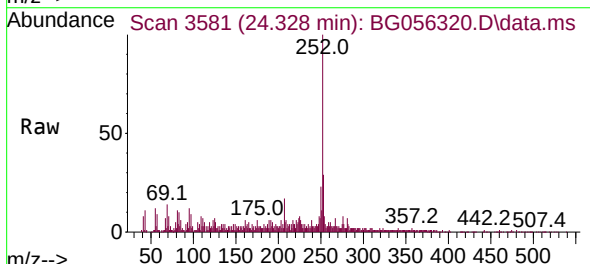
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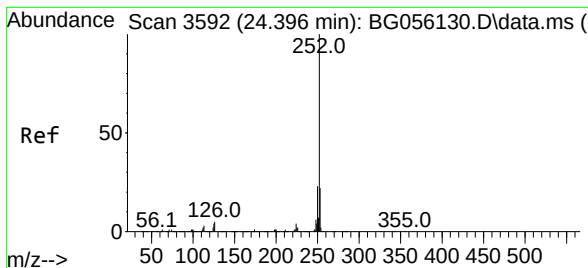
Reviewed By : Christian Giraldo 01/18/2023
 Supervised By : Jagrut Upadhyay 01/18/2023



#88
 Benzo(b)fluoranthene
 Concen: 10.780 ng
 RT: 24.328 min Scan# 3581
 Delta R.T. 0.030 min
 Lab File: BG056320.D
 Acq: 17 Jan 2023 19:29

Tgt Ion: 252 Resp: 202289
 Ion Ratio Lower Upper
 252 100
 253 29.2 17.4 26.2#
 125 6.7 3.0 4.4#





#89

Benzo(k)fluoranthene

Concen: 5.046 ng m

RT: 24.375 min Scan# 3589

Delta R.T. 0.001 min

Lab File: BG056320.D

Acq: 17 Jan 2023 19:29

Instrument :

BNA_G

ClientSampleId :

EO-3-011623

Tgt Ion:252 Resp: 94282

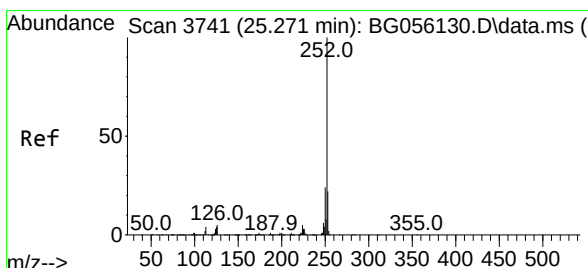
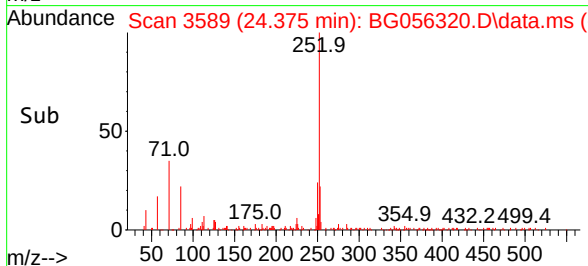
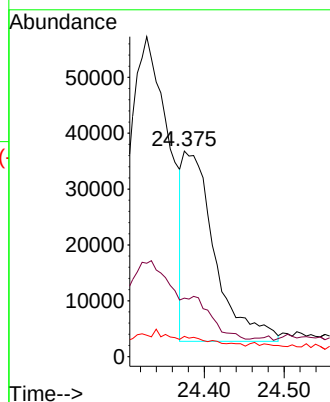
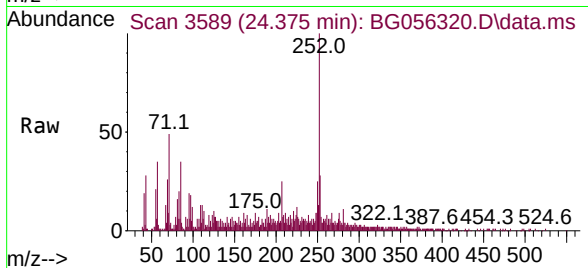
Ion	Ratio	Lower	Upper
252	100		
253	28.4	17.5	26.3
125	9.9	3.4	5.0

Manual Integrations

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Reviewed By :Christian Giraldo 01/18/2023

Supervised By :Jagrut Upadhyay 01/18/2023



#90

Benzo(a)pyrene

Concen: 7.781 ng

RT: 25.262 min Scan# 3740

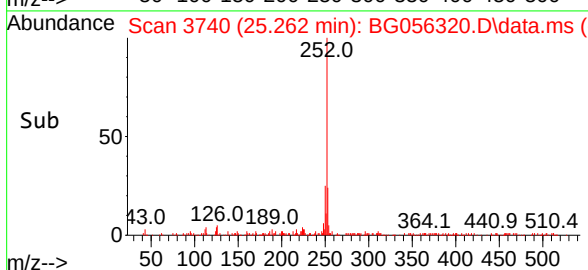
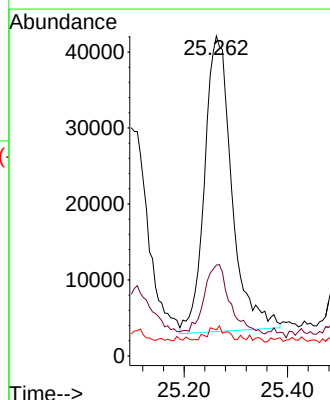
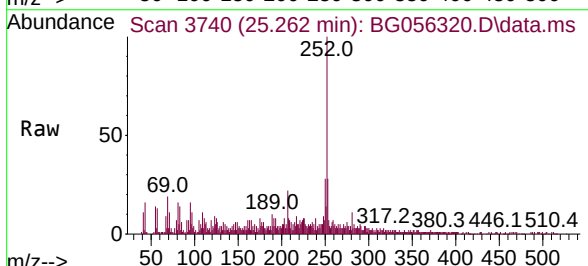
Delta R.T. 0.018 min

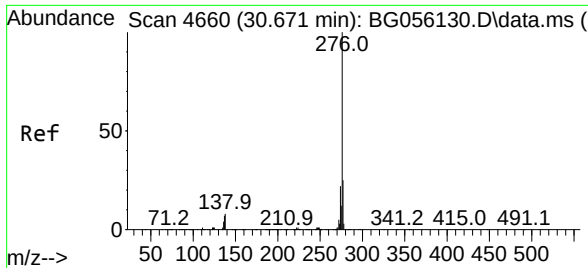
Lab File: BG056320.D

Acq: 17 Jan 2023 19:29

Tgt Ion:252 Resp: 142402

Ion	Ratio	Lower	Upper
252	100		
253	28.4	17.4	26.2
125	8.1	3.2	4.8





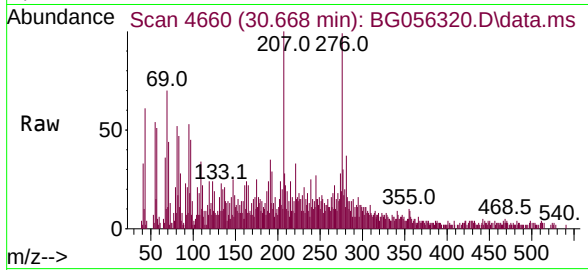
#92
 Benzo(g,h,i)perylene
 Concen: 2.906 ng m
 RT: 30.668 min Scan# 4660
 Delta R.T. 0.053 min
 Lab File: BG056320.D
 Acq: 17 Jan 2023 19:29

Instrument :

BNA_G

ClientSampleId :

EO-3-011623



Tgt Ion: 276 Resp: 50750

Ion	Ratio	Lower	Upper
276	100		
277	30.6	19.7	29.5
138	14.4	6.7	10.1

Manual Integrations

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Reviewed By : Christian Giraldo 01/18/2023
 Supervised By : Jagrut Upadhyay 01/18/2023

