

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG101122\
 Data File : BG055131.D
 Acq On : 11 Oct 2022 17:59
 Operator : CG/JU
 Sample : N5067-18
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 COMP-B-2-VERT

Quant Time: Oct 12 06:21:09 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG100322.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Oct 08 03:04:59 2022
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :Christian Giraldo 10/12/2022
 Supervised By :Jagrut Upadhyay 10/12/2022

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.332	152	38237	20.000	ng	0.00
21) Naphthalene-d8	11.170	136	160422	20.000	ng	0.00
39) Acenaphthene-d10	14.936	164	113476	20.000	ng	0.00
64) Phenanthrene-d10	17.669	188	238882	20.000	ng	0.00
76) Chrysene-d12	21.969	240	224236	20.000	ng	0.00
86) Perylene-d12	25.412	264	248224	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.853	112	219473	127.489	ng	0.00
7) Phenol-d6	7.463	99	299784	116.224	ng	0.00
23) Nitrobenzene-d5	9.502	82	193874	72.214	ng	0.00
42) 2,4,6-Tribromophenol	16.411	330	158049	133.834	ng	0.00
45) 2-Fluorobiphenyl	13.567	172	470545	64.734	ng	0.00
79) Terphenyl-d14	20.248	244	715616	64.503	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	11.241	128	4641592	548.214	ng	# 85
37) 2-Methylnaphthalene	12.798	142	1035786	166.005	ng	98
38) 1-Methylnaphthalene	13.009	142	591797	97.509	ng	99
46) 1,1'-Biphenyl	13.779	154	87775	11.282	ng	98
52) Acenaphthene	15.001	154	37262	5.780	ng	94
55) Dibenzofuran	15.330	168	44977	4.373	ng	# 98
58) Fluorene	15.976	166	63764	7.748	ng	98
71) Phenanthrene	17.716	178	449360	35.811	ng	99
72) Anthracene	17.804	178	88043	7.214	ng	97
73) Carbazole	18.068	167	40872	3.815	ng	# 97
75) Fluoranthene	19.707	202	554504	35.422	ng	97
78) Pyrene	20.066	202	519585	34.847	ng	98
81) Benzo(a)anthracene	21.946	228	301585	21.172	ng	98
83) Chrysene	22.016	228	286018	20.833	ng	98
87) Indeno(1,2,3-cd)pyrene	29.384	276	158446	8.845	ng	99
88) Benzo(b)fluoranthene	24.320	252	336911	23.036	ng	97
89) Benzo(k)fluoranthene	24.378	252	124534m	8.452	ng	
90) Benzo(a)pyrene	25.248	252	250631	19.994	ng	95
92) Benzo(g,h,i)perylene	30.618	276	144350	9.882	ng	99

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

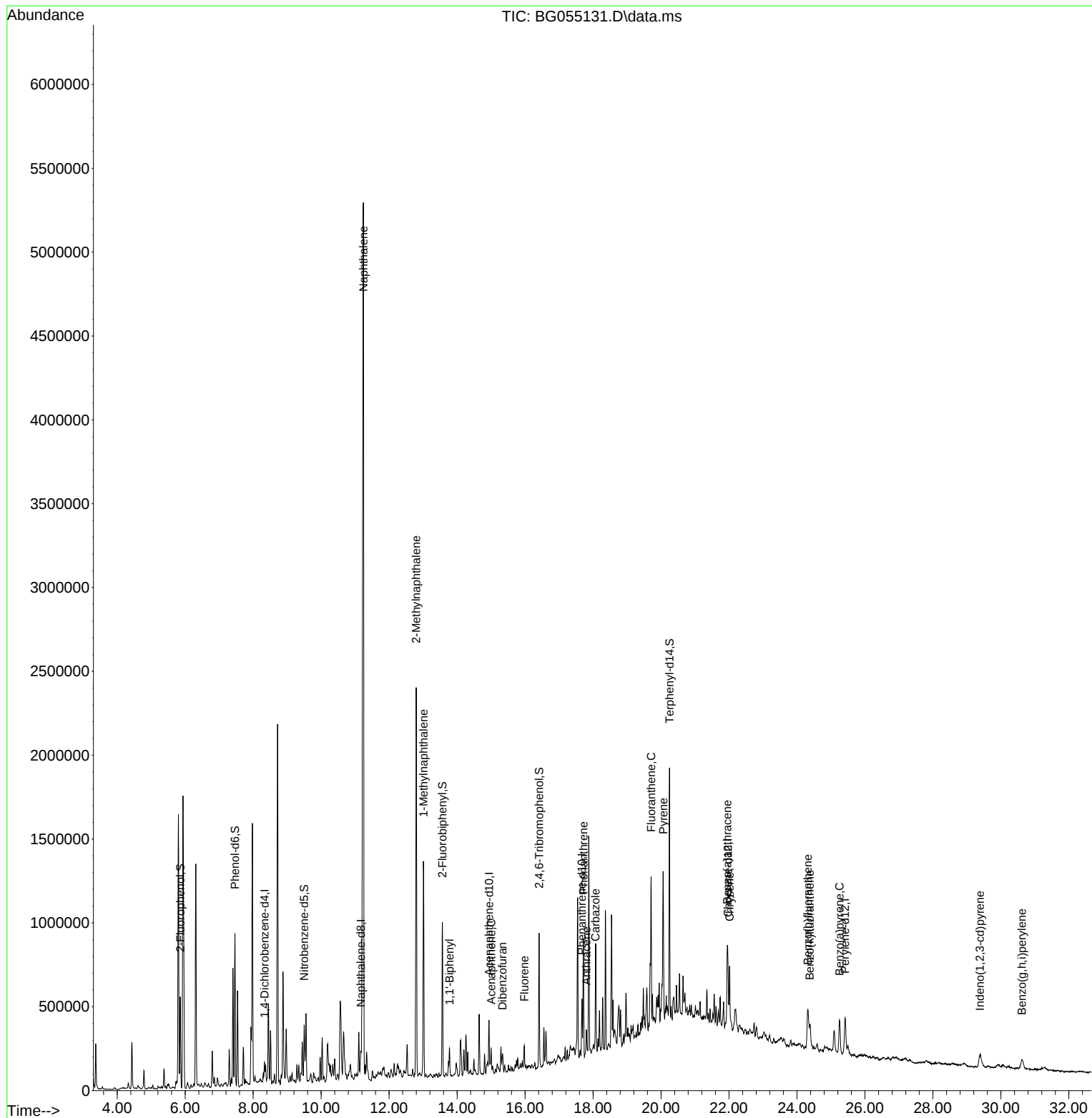
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG101122\
Data File : BG055131.D
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ALS Vial : 12 Sample Multiplier: 1

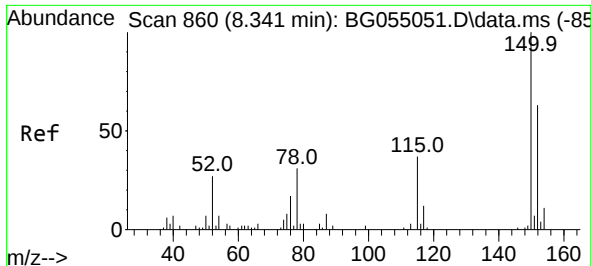
Instrument :
BNA_G
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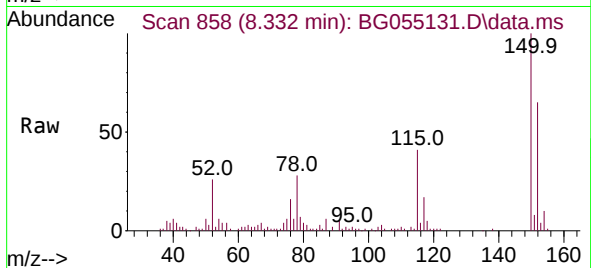
Reviewed By :Christian Giraldo 10/12/2022
Supervised By :Jagrut Upadhyay 10/12/2022





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.332 min Scan# 81
Delta R.T. -0.006 min
Lab File: BG055131.D
Acq: 11 Oct 2022 17:59

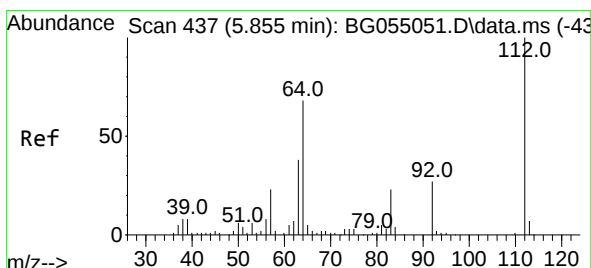
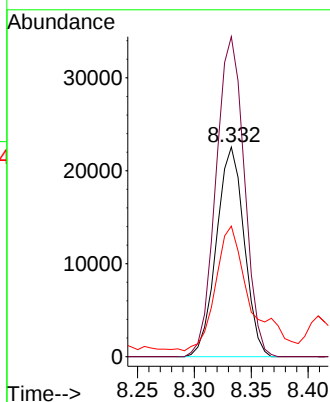
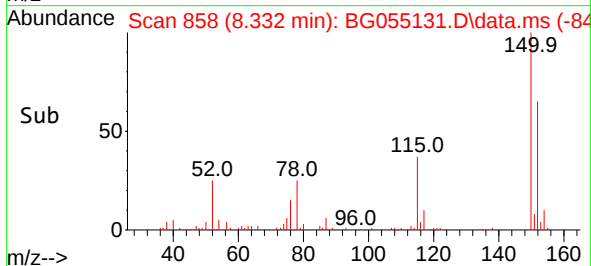
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ClientSampleId :
COMP-B-2-VERT



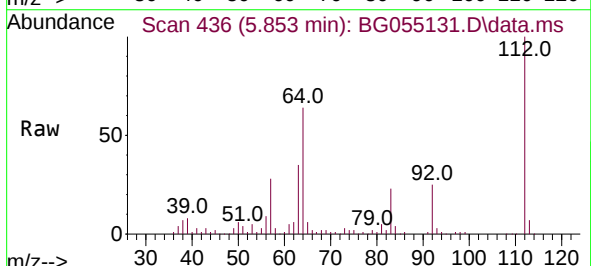
Tgt Ion:152 Resp: 3823
Ion Ratio Lower Upper
152 100
150 152.8 128.0 192.0
115 62.3 47.7 71.5

Manual Integrations
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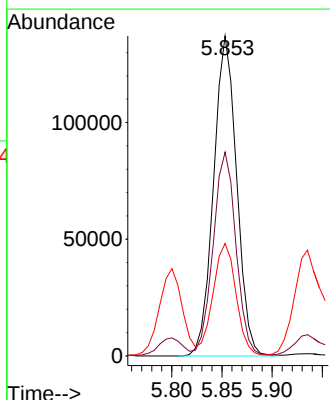
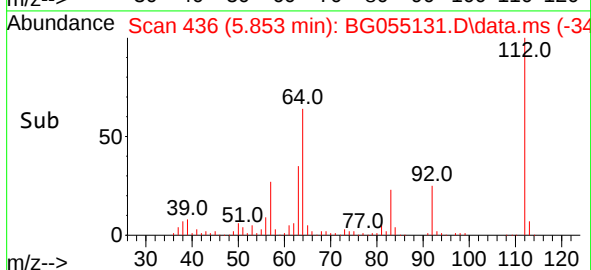
Reviewed By :Christian Giraldo 10/12/2022
Supervised By :Jagrut Upadhyay 10/12/2022

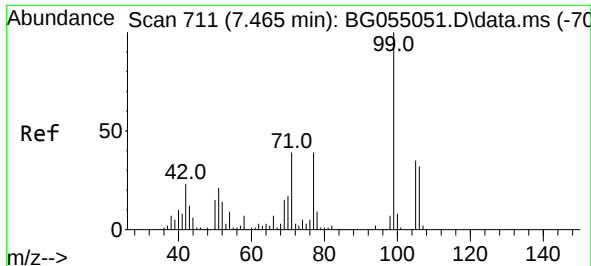


#5
2-Fluorophenol
Concen: 127.489 ng
RT: 5.853 min Scan# 436
Delta R.T. 0.001 min
Lab File: BG055131.D
Acq: 11 Oct 2022 17:59



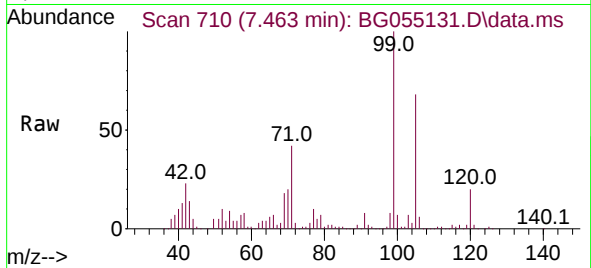
Tgt Ion:112 Resp: 219473
Ion Ratio Lower Upper
112 100
64 63.7 54.5 81.7
63 35.1 30.5 45.7





#7
Phenol-d6
Concen: 116.224 ng
RT: 7.463 min Scan# 711
Delta R.T. 0.001 min
Lab File: BG055131.D
Acq: 11 Oct 2022 17:59

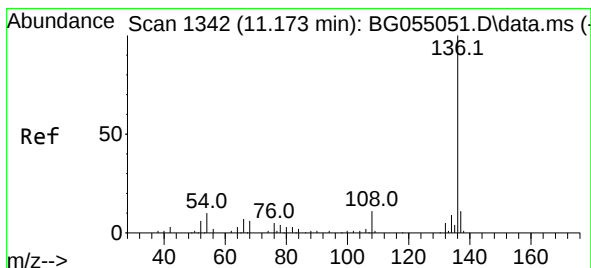
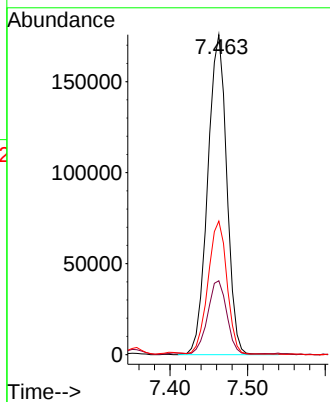
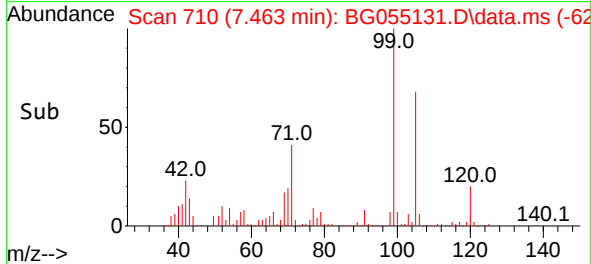
Instrument :
BNA_G
ClientSampleId :
COMP-B-2-VERT



Tgt Ion: 99 Resp: 299784
Ion Ratio Lower Upper
99 100
42 23.1 18.6 28.0
71 41.7 31.2 46.8

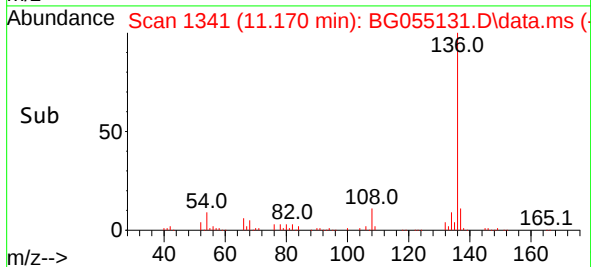
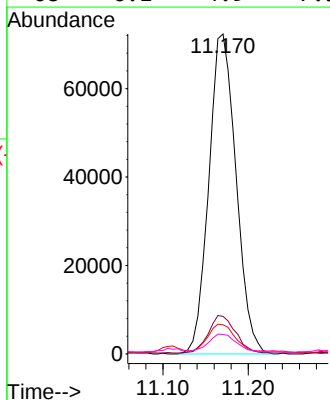
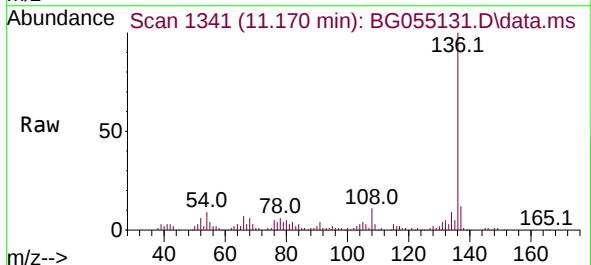
Manual Integrations
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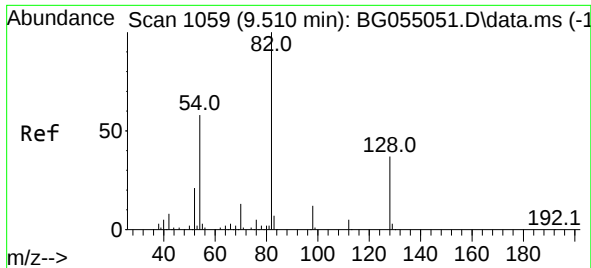
Reviewed By :Christian Giraldo 10/12/2022
Supervised By :Jagrut Upadhyay 10/12/2022



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.170 min Scan# 1341
Delta R.T. 0.001 min
Lab File: BG055131.D
Acq: 11 Oct 2022 17:59

Tgt Ion:136 Resp: 160422
Ion Ratio Lower Upper
136 100
137 11.7 8.7 13.1
54 9.1 8.2 12.4
68 6.1 4.9 7.3





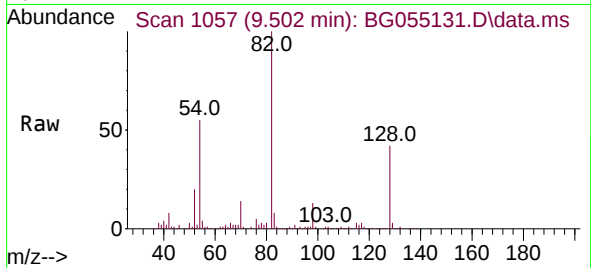
#23
Nitrobenzene-d5
Concen: 72.214 ng
RT: 9.502 min Scan# 1057
Delta R.T. -0.005 min
Lab File: BG055131.D
Acq: 11 Oct 2022 17:59

Instrument :

BNA_G

ClientSampleId :

COMP-B-2-VERT

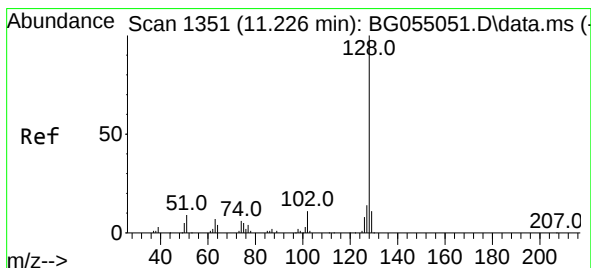
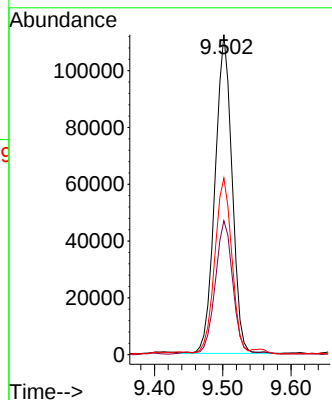
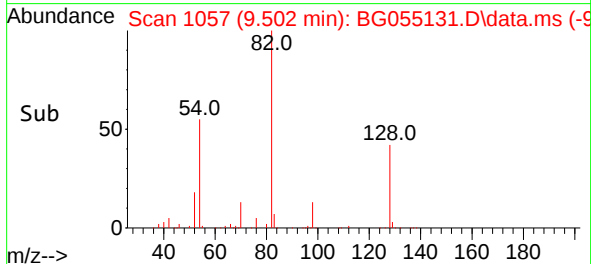


Tgt Ion: 82 Resp: 193874
Ion Ratio Lower Upper
82 100
128 41.8 29.5 44.3
54 55.2 46.7 70.1

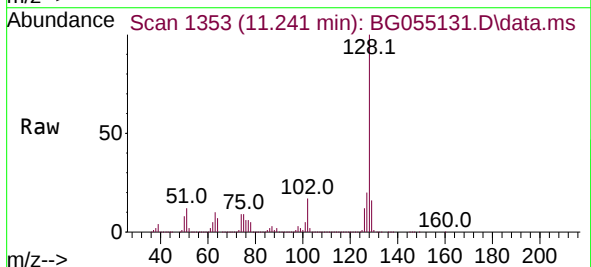
Manual Integrations

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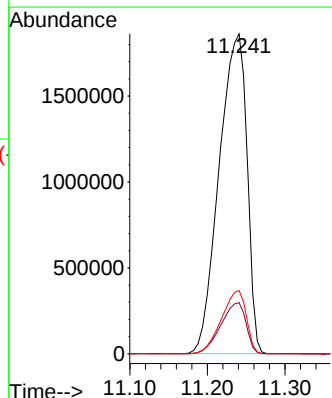
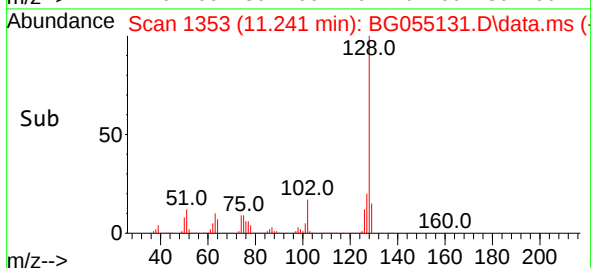
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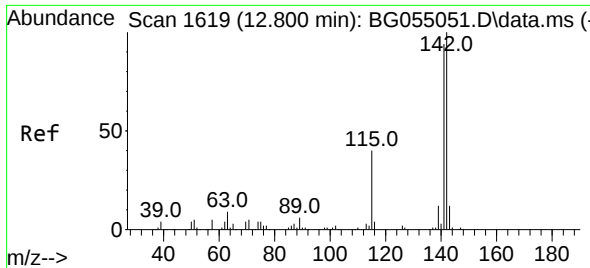


#31
Naphthalene
Concen: 548.214 ng
RT: 11.241 min Scan# 1353
Delta R.T. 0.024 min
Lab File: BG055131.D
Acq: 11 Oct 2022 17:59



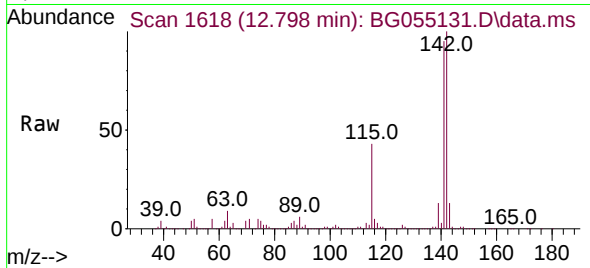
Tgt Ion:128 Resp: 4641592
Ion Ratio Lower Upper
128 100
129 16.0 8.7 13.1#
127 19.8 10.9 16.3#





#37
2-Methylnaphthalene
Concen: 166.005 ng
RT: 12.798 min Scan# 1619
Delta R.T. 0.001 min
Lab File: BG055131.D
Acq: 11 Oct 2022 17:59

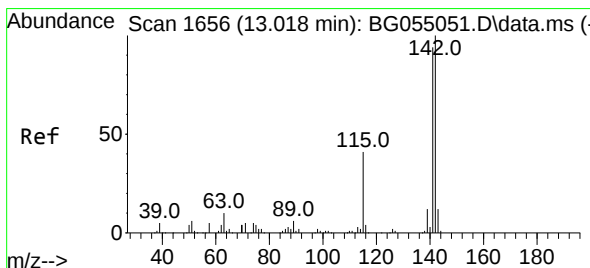
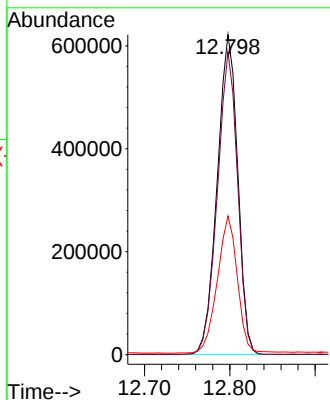
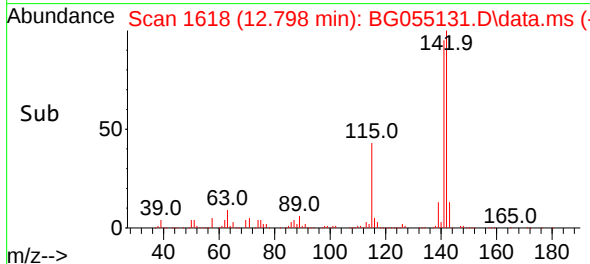
Instrument :
BNA_G
ClientSampleId :
COMP-B-2-VERT



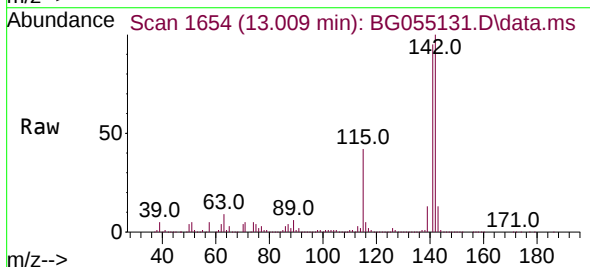
Tgt Ion:142 Resp: 1035786
Ion Ratio Lower Upper
142 100
141 94.6 75.0 112.4
115 43.3 31.7 47.5

Manual Integrations
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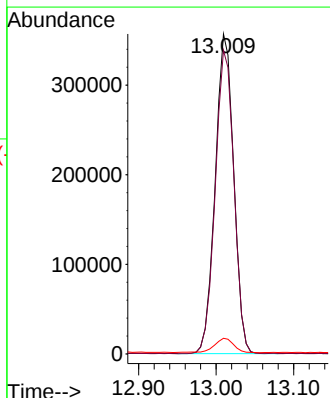
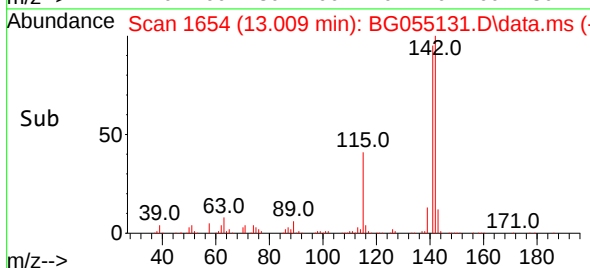
Reviewed By :Christian Giraldo 10/12/2022
Supervised By :Jagrut Upadhyay 10/12/2022

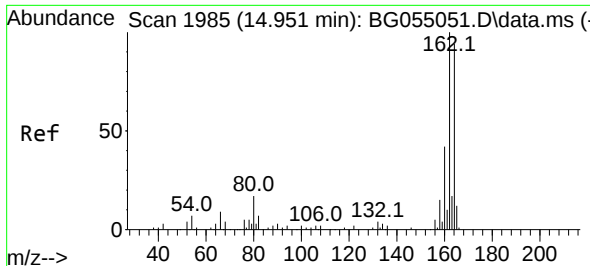


#38
1-Methylnaphthalene
Concen: 97.509 ng
RT: 13.009 min Scan# 1654
Delta R.T. -0.005 min
Lab File: BG055131.D
Acq: 11 Oct 2022 17:59



Tgt Ion:142 Resp: 591797
Ion Ratio Lower Upper
142 100
141 94.9 75.5 113.3
116 4.9 3.4 5.2





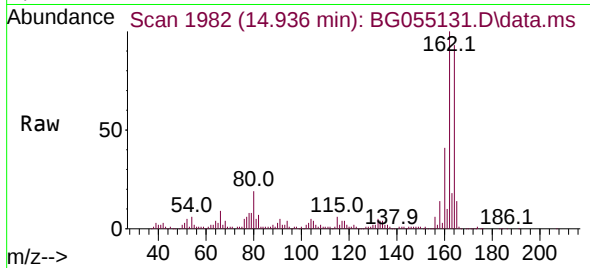
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.936 min Scan# 1982
Delta R.T. -0.005 min
Lab File: BG055131.D
Acq: 11 Oct 2022 17:59

Instrument :

BNA_G

ClientSampleId :

COMP-B-2-VERT

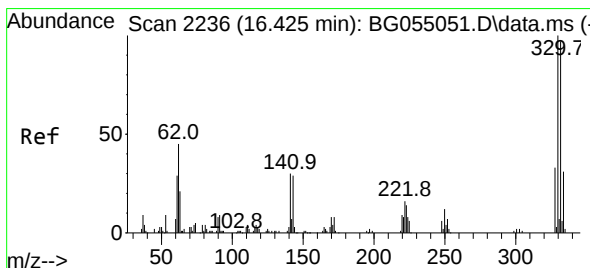
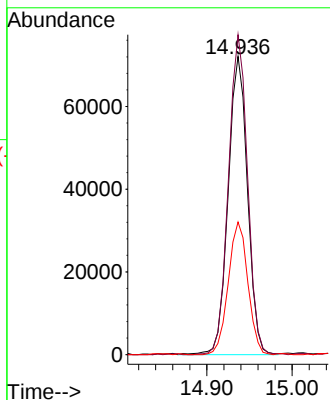
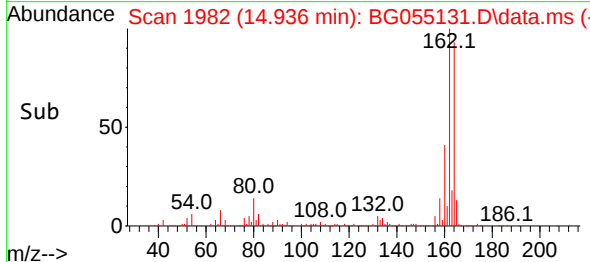


Tgt Ion:164 Resp: 113476
Ion Ratio Lower Upper
164 100
162 107.3 85.5 128.3
160 44.4 35.5 53.3

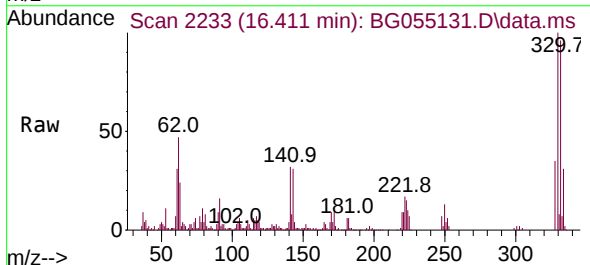
Manual Integrations

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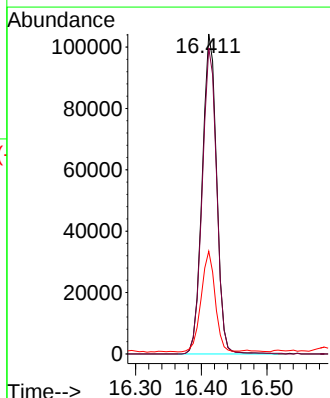
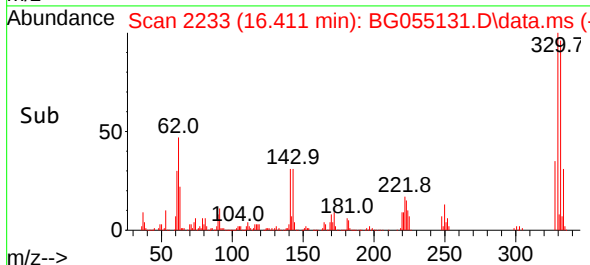
Reviewed By :Christian Giraldo 10/12/2022
Supervised By :Jagrut Upadhyay 10/12/2022

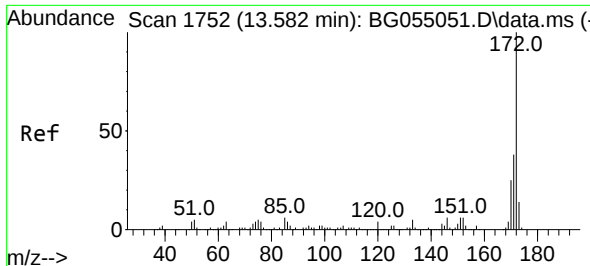


#42
2,4,6-Tribromophenol
Concen: 133.834 ng
RT: 16.411 min Scan# 2233
Delta R.T. -0.005 min
Lab File: BG055131.D
Acq: 11 Oct 2022 17:59



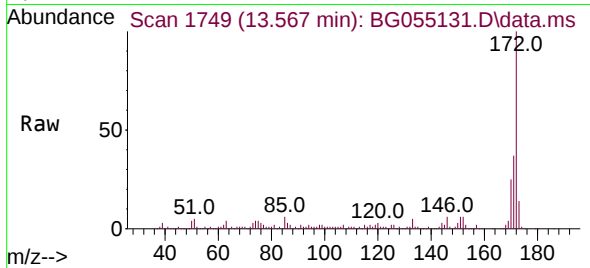
Tgt Ion:330 Resp: 158049
Ion Ratio Lower Upper
330 100
332 95.9 77.4 116.0
141 30.5 25.0 37.4





#45
2-Fluorobiphenyl
Concen: 64.734 ng
RT: 13.567 min Scan# 1749
Delta R.T. -0.005 min
Lab File: BG055131.D
Acq: 11 Oct 2022 17:59

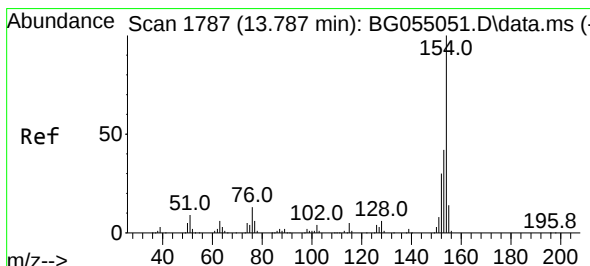
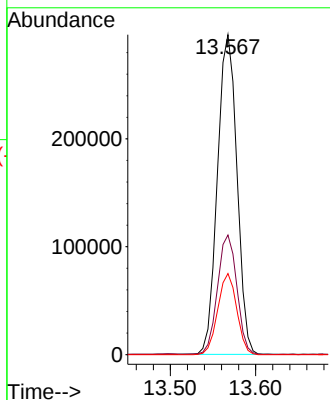
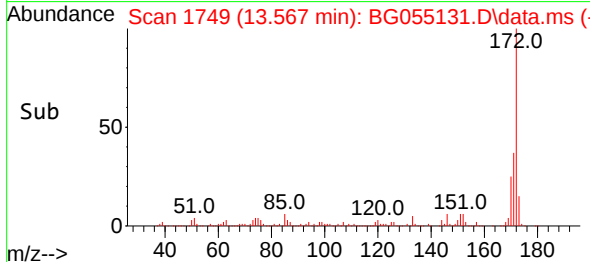
Instrument :
BNA_G
ClientSampleId :
COMP-B-2-VERT



Tgt Ion:172 Resp: 470545
Ion Ratio Lower Upper
172 100
171 37.4 30.1 45.1
170 25.3 20.0 30.0

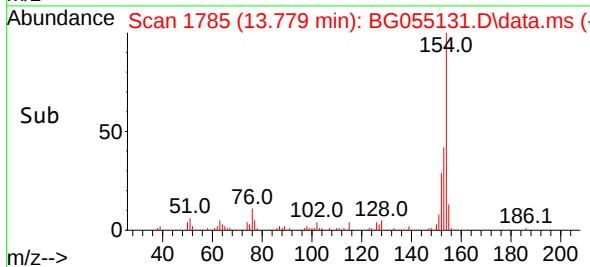
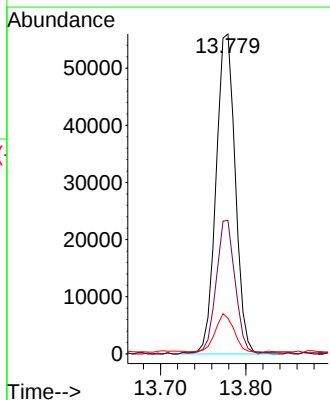
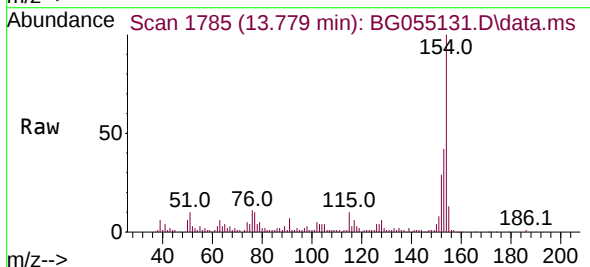
Manual Integrations
APPROVED

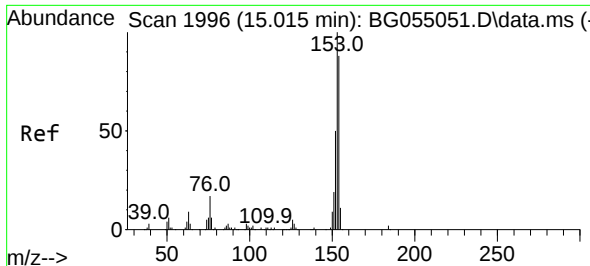
Reviewed By :Christian Giraldo 10/12/2022
Supervised By :Jagrut Upadhyay 10/12/2022



#46
1,1'-Biphenyl
Concen: 11.282 ng
RT: 13.779 min Scan# 1785
Delta R.T. -0.005 min
Lab File: BG055131.D
Acq: 11 Oct 2022 17:59

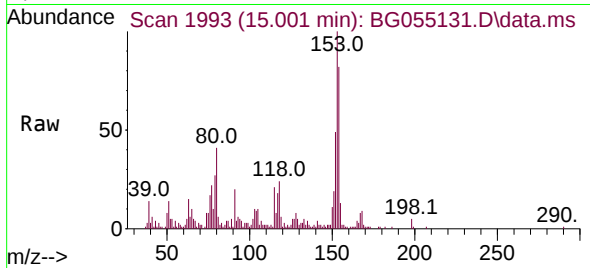
Tgt Ion:154 Resp: 87775
Ion Ratio Lower Upper
154 100
153 41.7 22.0 62.0
76 11.2 0.0 33.3





#52
Acenaphthene
Concen: 5.780 ng
RT: 15.001 min Scan# 1996
Delta R.T. -0.005 min
Lab File: BG055131.D
Acq: 11 Oct 2022 17:59

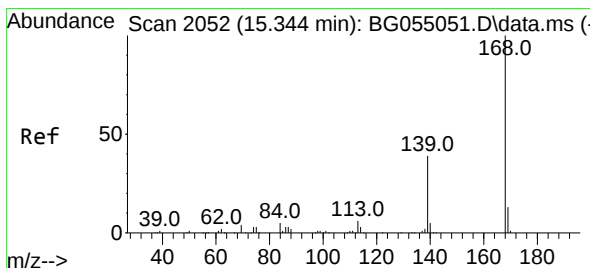
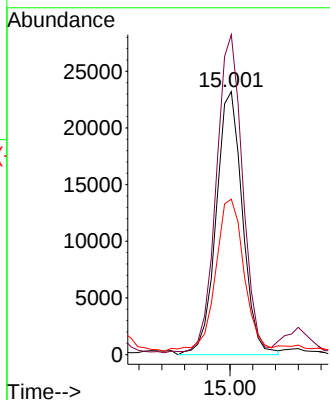
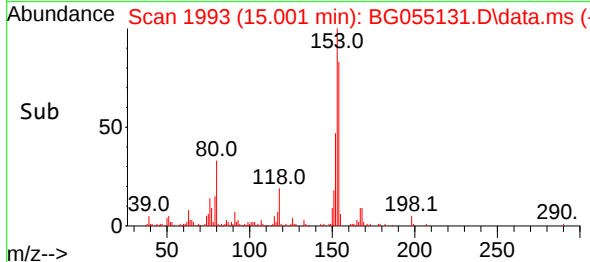
Instrument :
BNA_G
ClientSampleId :
COMP-B-2-VERT



Tgt Ion:154 Resp: 37262
Ion Ratio Lower Upper
154 100
153 121.7 91.4 137.0
152 59.1 45.3 67.9

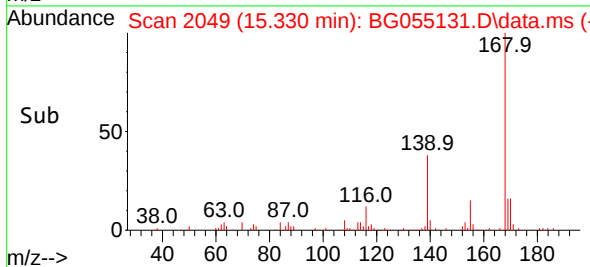
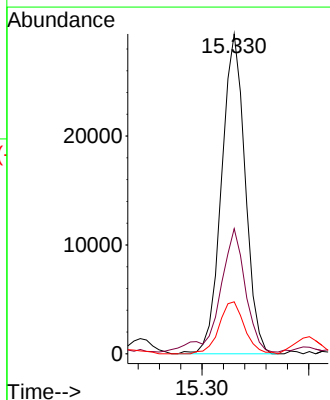
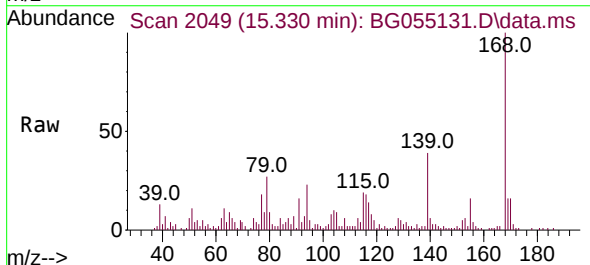
Manual Integrations
APPROVED

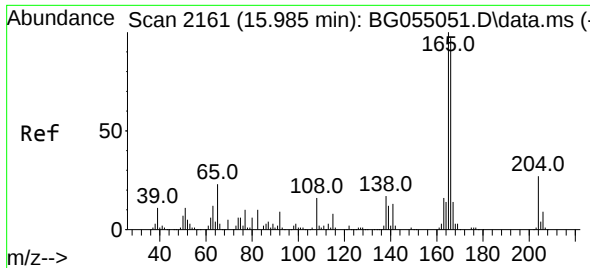
Reviewed By :Christian Giraldo 10/12/2022
Supervised By :Jagrut Upadhyay 10/12/2022



#55
Dibenzofuran
Concen: 4.373 ng
RT: 15.330 min Scan# 2049
Delta R.T. -0.005 min
Lab File: BG055131.D
Acq: 11 Oct 2022 17:59

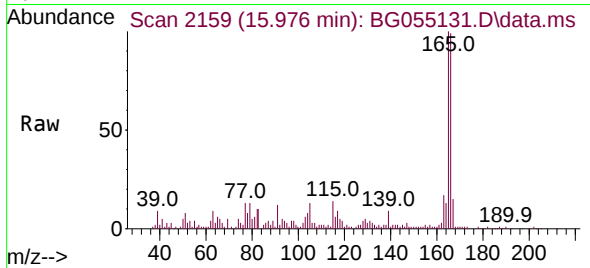
Tgt Ion:168 Resp: 44977
Ion Ratio Lower Upper
168 100
139 39.1 31.0 46.4
169 16.3 10.6 16.0#





#58
Fluorene
Concen: 7.748 ng
RT: 15.976 min Scan# 2161
Delta R.T. -0.005 min
Lab File: BG055131.D
Acq: 11 Oct 2022 17:59

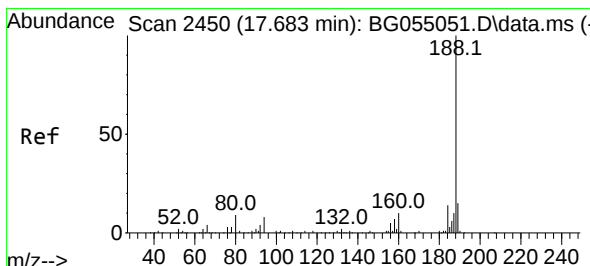
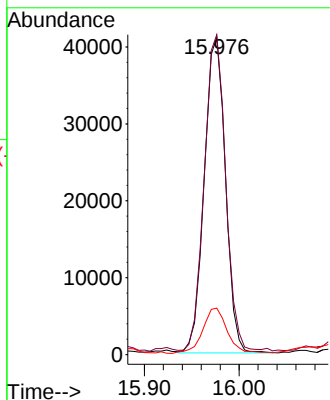
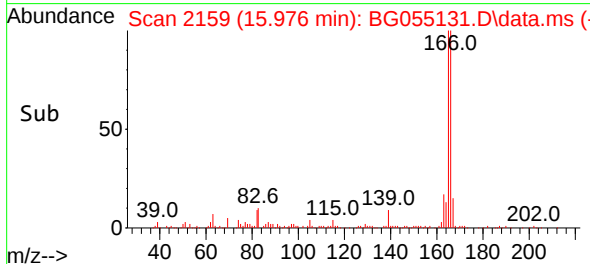
Instrument :
BNA_G
ClientSampleId :
COMP-B-2-VERT



Tgt Ion:166 Resp: 63764
Ion Ratio Lower Upper
166 100
165 100.7 82.6 123.8
167 14.6 11.8 17.8

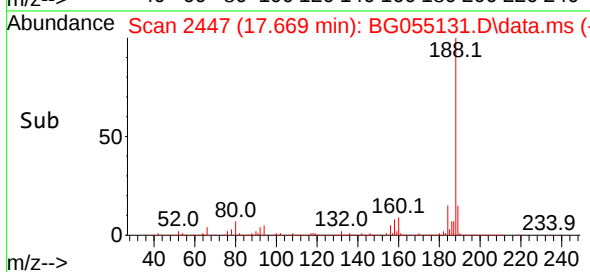
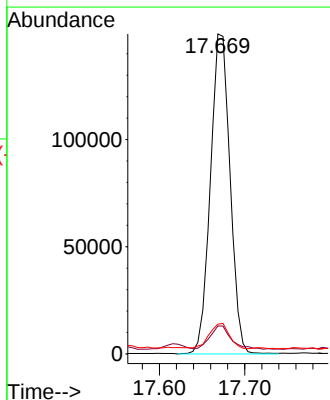
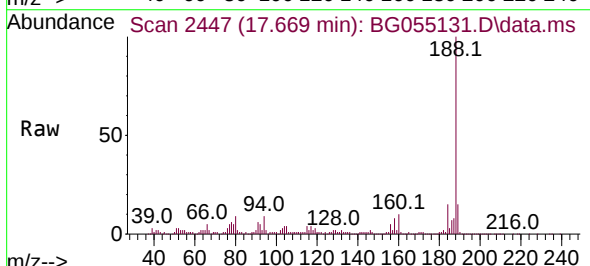
Manual Integrations
APPROVED

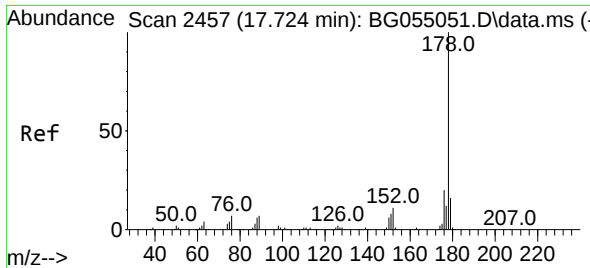
Reviewed By :Christian Giraldo 10/12/2022
Supervised By :Jagrut Upadhyay 10/12/2022



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.669 min Scan# 2447
Delta R.T. -0.005 min
Lab File: BG055131.D
Acq: 11 Oct 2022 17:59

Tgt Ion:188 Resp: 238882
Ion Ratio Lower Upper
188 100
94 8.7 6.2 9.2
80 9.3 7.2 10.8





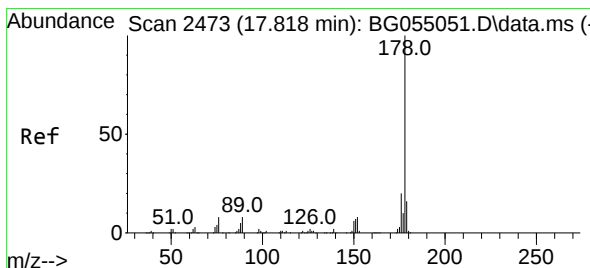
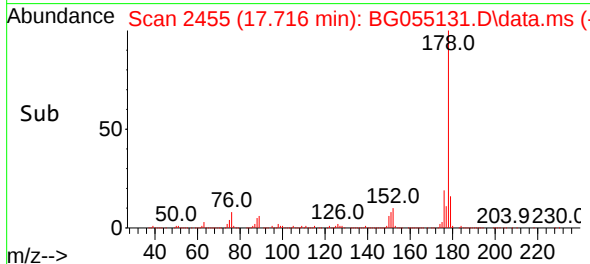
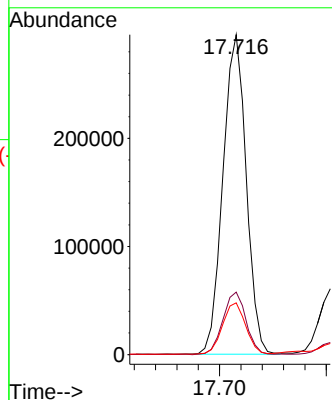
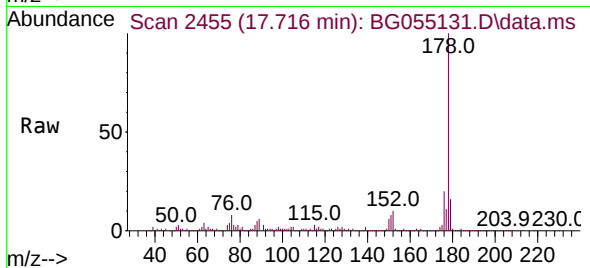
#71
Phenanthrene
Concen: 35.811 ng
RT: 17.716 min Scan# 2455
Delta R.T. -0.005 min
Lab File: BG055131.D
Acq: 11 Oct 2022 17:59

Instrument :
BNA_G
ClientSampleId :
COMP-B-2-VERT

Tgt Ion:178 Resp: 449360
Ion Ratio Lower Upper
178 100
176 19.5 15.8 23.6
179 16.2 13.2 19.8

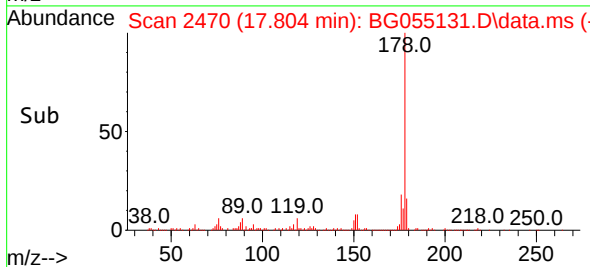
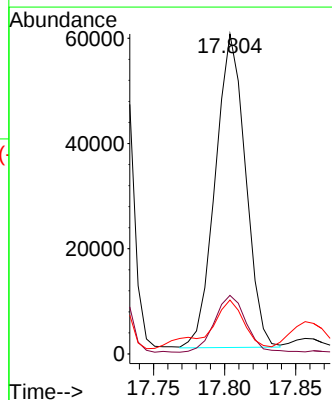
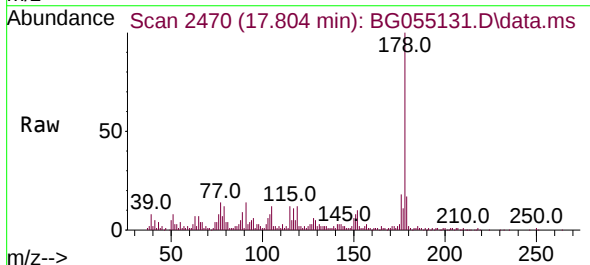
Manual Integrations
APPROVED

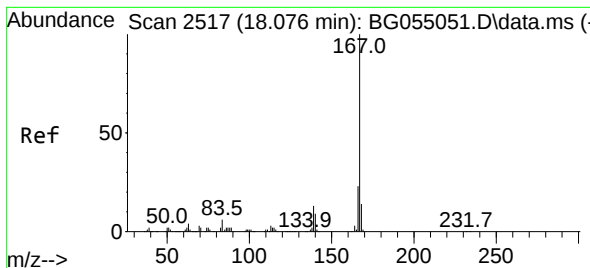
Reviewed By :Christian Giraldo 10/12/2022
Supervised By :Jagrut Upadhyay 10/12/2022



#72
Anthracene
Concen: 7.214 ng
RT: 17.804 min Scan# 2470
Delta R.T. -0.005 min
Lab File: BG055131.D
Acq: 11 Oct 2022 17:59

Tgt Ion:178 Resp: 88043
Ion Ratio Lower Upper
178 100
176 18.3 15.7 23.5
179 16.8 12.5 18.7





#73

Carbazole

Concen: 3.815 ng

RT: 18.068 min Scan# 2515

Delta R.T. 0.001 min

Lab File: BG055131.D

Acq: 11 Oct 2022 17:59

Instrument :

BNA_G

ClientSampleId :

COMP-B-2-VERT

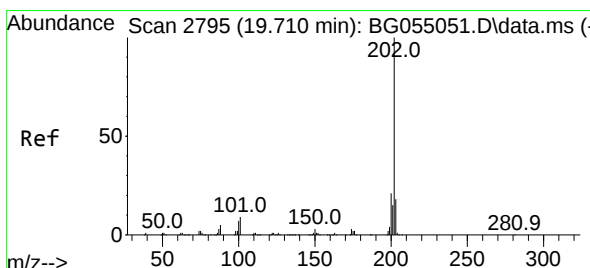
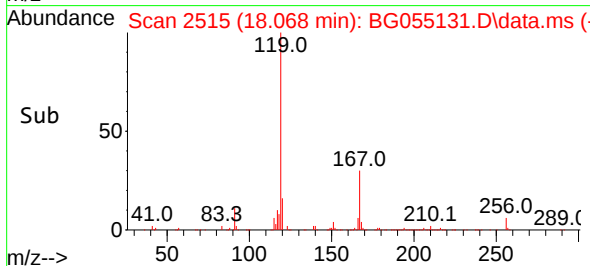
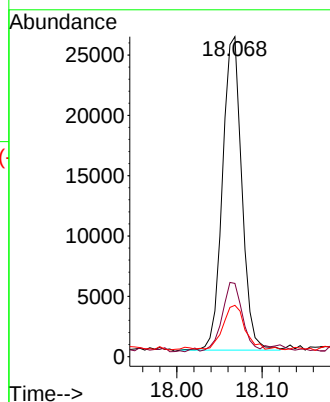
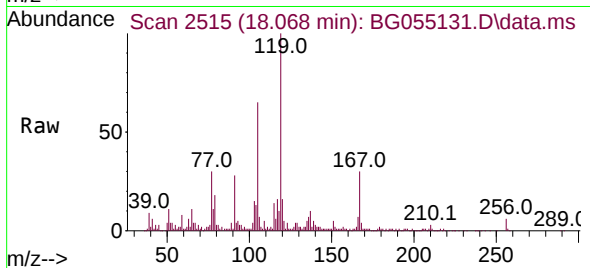
Tgt Ion:	167	Resp:	40872
Ion Ratio	Lower	Upper	
167	100		
166	22.9	18.2	27.2
139	16.0	10.2	15.4

Manual Integrations

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Reviewed By :Christian Giraldo 10/12/2022

Supervised By :Jagrut Upadhyay 10/12/2022



#75

Fluoranthene

Concen: 35.422 ng

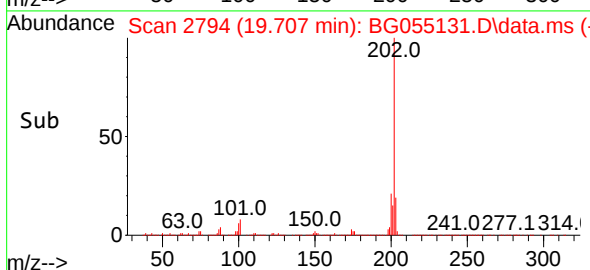
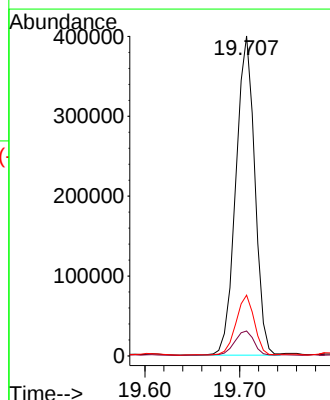
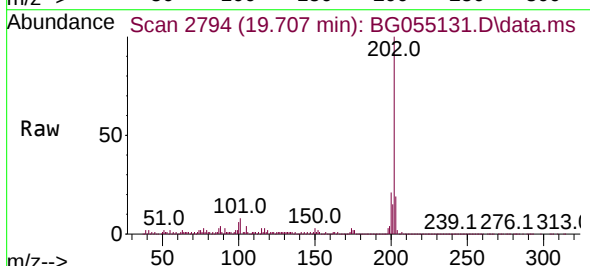
RT: 19.707 min Scan# 2794

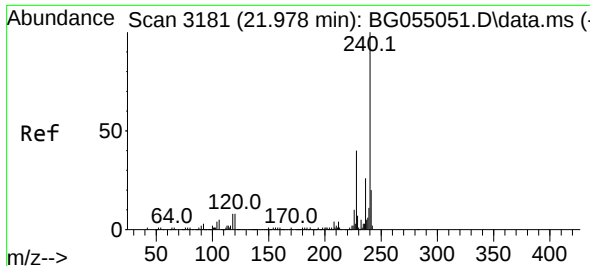
Delta R.T. 0.001 min

Lab File: BG055131.D

Acq: 11 Oct 2022 17:59

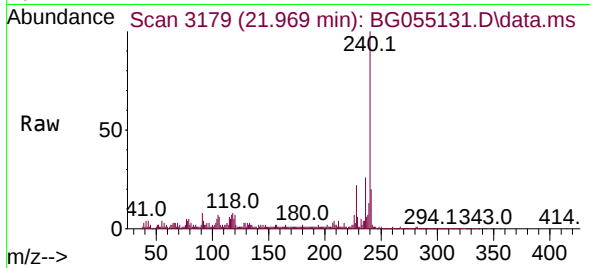
Tgt Ion:	202	Resp:	554504
Ion Ratio	Lower	Upper	
202	100		
101	7.8	0.0	28.9
203	19.0	0.0	37.7





#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.969 min Scan# 3181
Delta R.T. 0.001 min
Lab File: BG055131.D
Acq: 11 Oct 2022 17:59

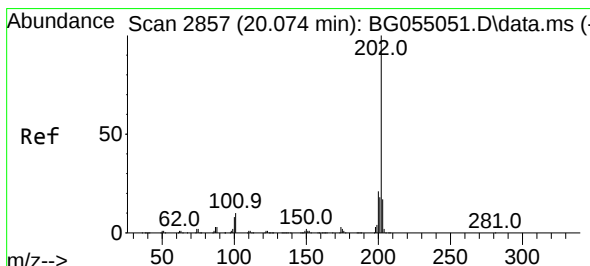
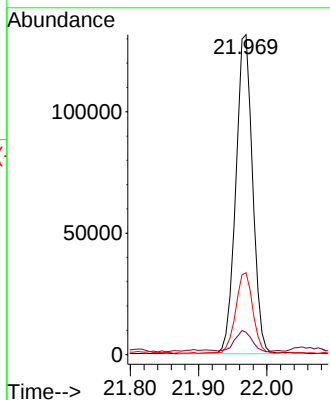
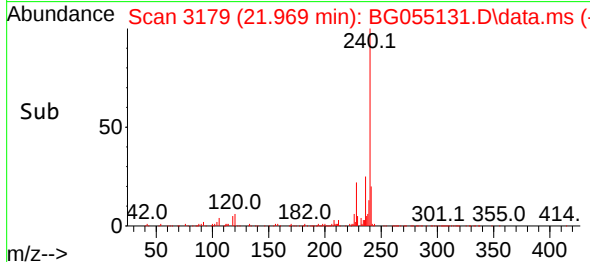
Instrument :
BNA_G
ClientSampleId :
COMP-B-2-VERT



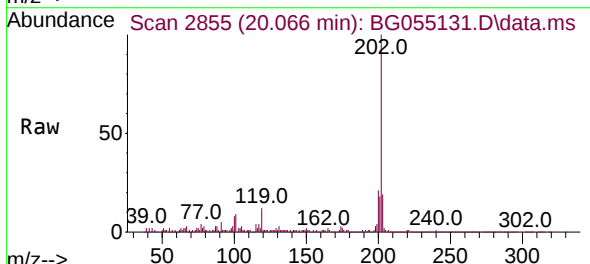
Tgt Ion:240 Resp: 224236
Ion Ratio Lower Upper
240 100
120 7.0 6.2 9.4
236 25.6 20.6 30.8

Manual Integrations
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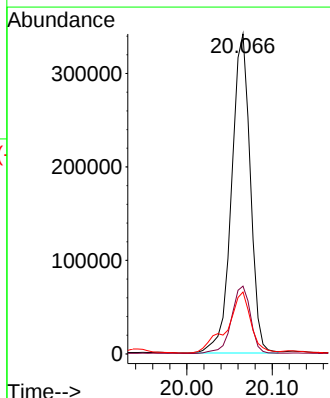
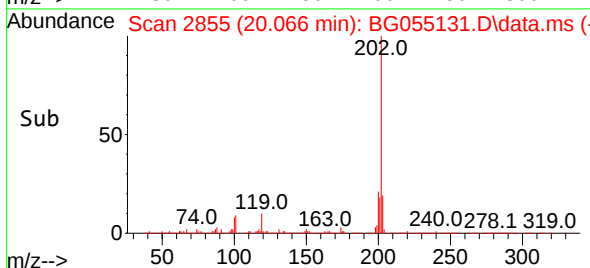
Reviewed By :Christian Giraldo 10/12/2022
Supervised By :Jagrut Upadhyay 10/12/2022

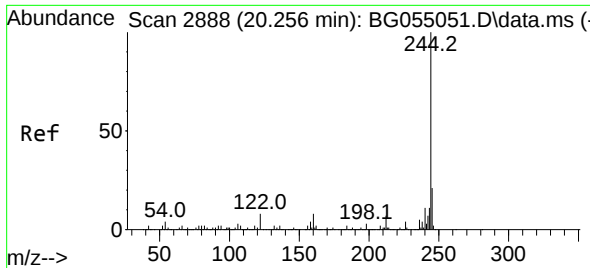


#78
Pyrene
Concen: 34.847 ng
RT: 20.066 min Scan# 2855
Delta R.T. 0.001 min
Lab File: BG055131.D
Acq: 11 Oct 2022 17:59



Tgt Ion:202 Resp: 519585
Ion Ratio Lower Upper
202 100
200 21.2 16.6 25.0
203 19.3 14.0 21.0





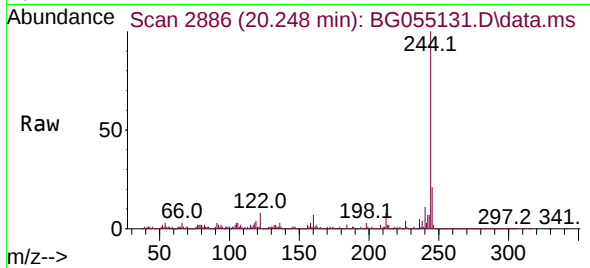
#79
 Terphenyl-d14
 Concen: 64.503 ng
 RT: 20.248 min Scan# 2886
 Delta R.T. -0.005 min
 Lab File: BG055131.D
 Acq: 11 Oct 2022 17:59

Instrument :

BNA_G

ClientSampleId :

COMP-B-2-VERT

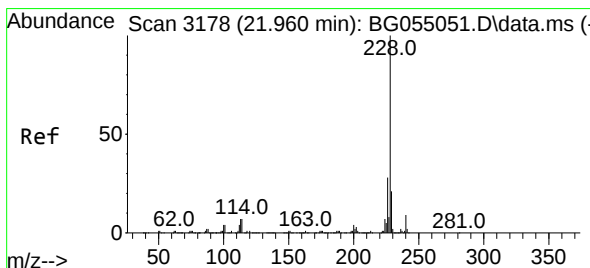
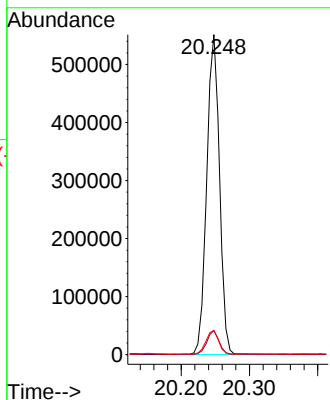
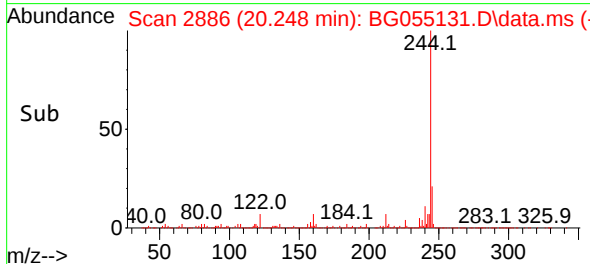


Tgt Ion:244 Resp: 715616
 Ion Ratio Lower Upper
 244 100
 212 7.5 6.0 9.0
 122 7.6 6.6 10.0

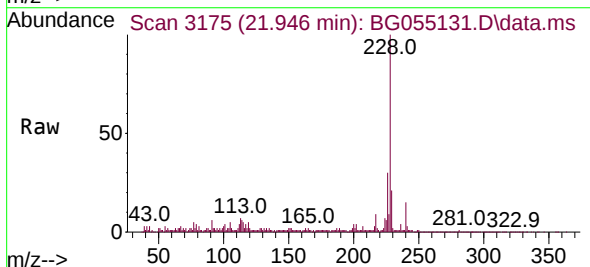
Manual Integrations

APPROVED

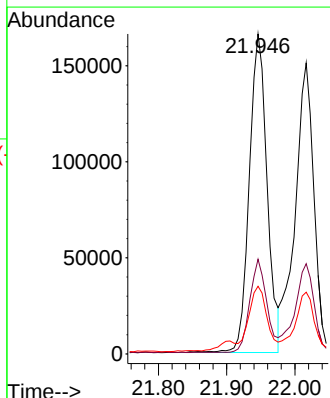
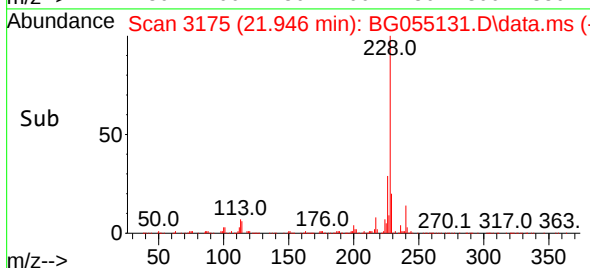
Reviewed By :Christian Giraldo 10/12/2022
 Supervised By :Jagrut Upadhyay 10/12/2022

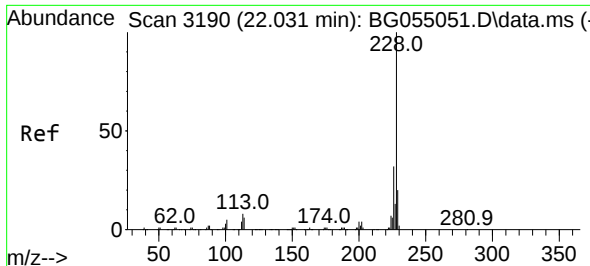


#81
 Benzo(a)anthracene
 Concen: 21.172 ng
 RT: 21.946 min Scan# 3175
 Delta R.T. -0.005 min
 Lab File: BG055131.D
 Acq: 11 Oct 2022 17:59



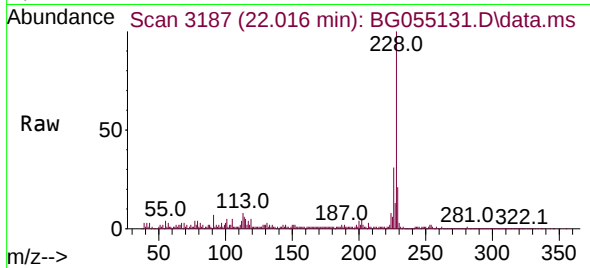
Tgt Ion:228 Resp: 301585
 Ion Ratio Lower Upper
 228 100
 226 29.6 22.4 33.6
 229 21.1 16.7 25.1





#83
Chrysene
Concen: 20.833 ng
RT: 22.016 min Scan# 3190
Delta R.T. -0.005 min
Lab File: BG055131.D
Acq: 11 Oct 2022 17:59

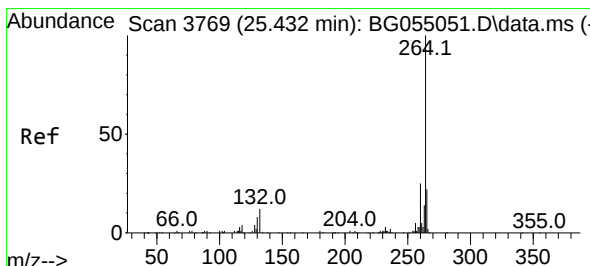
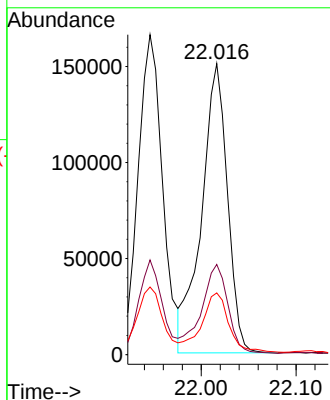
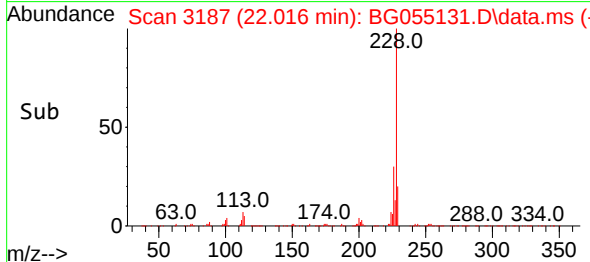
Instrument :
BNA_G
ClientSampleId :
COMP-B-2-VERT



Tgt Ion:228 Resp: 286018
Ion Ratio Lower Upper
228 100
226 31.0 25.3 37.9
229 21.2 16.1 24.1

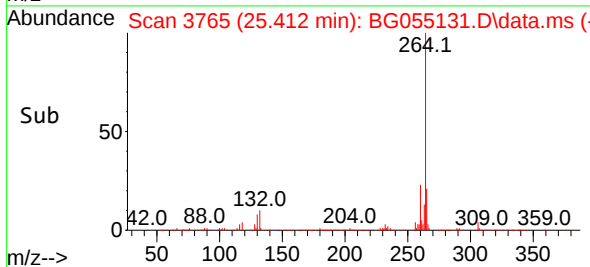
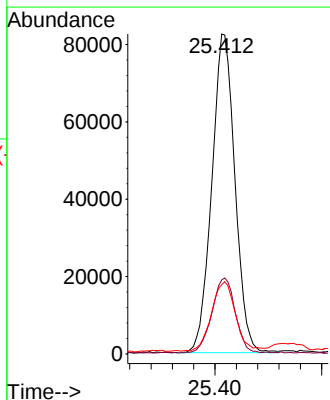
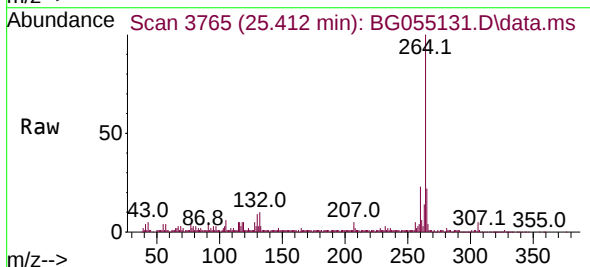
Manual Integrations
APPROVED

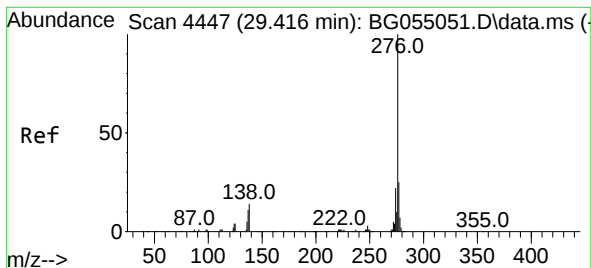
Reviewed By :Christian Giraldo 10/12/2022
Supervised By :Jagrut Upadhyay 10/12/2022



#86
Perylene-d12
Concen: 20.000 ng
RT: 25.412 min Scan# 3765
Delta R.T. -0.005 min
Lab File: BG055131.D
Acq: 11 Oct 2022 17:59

Tgt Ion:264 Resp: 248224
Ion Ratio Lower Upper
264 100
260 23.1 19.7 29.5
265 21.7 17.8 26.6





#87

Indeno(1,2,3-cd)pyrene

Concen: 8.845 ng

RT: 29.384 min Scan# 4441

Delta R.T. -0.005 min

Lab File: BG055131.D

Acq: 11 Oct 2022 17:59

Instrument :

BNA_G

ClientSampleId :

COMP-B-2-VERT

Tgt Ion:276 Resp: 158446

Ion Ratio Lower Upper

276 100

138 13.3 10.0 15.0

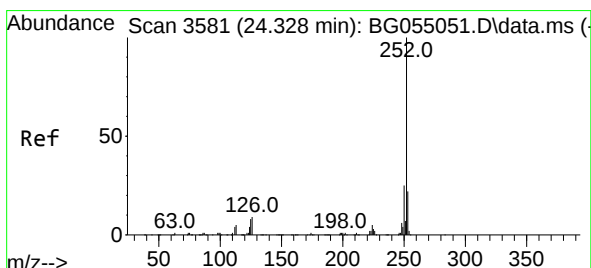
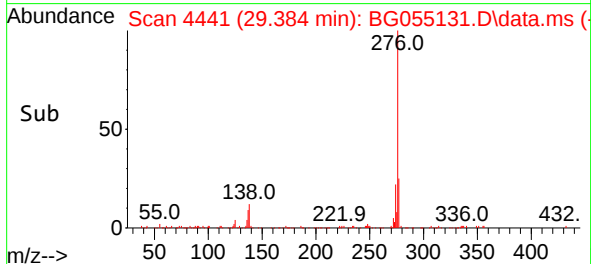
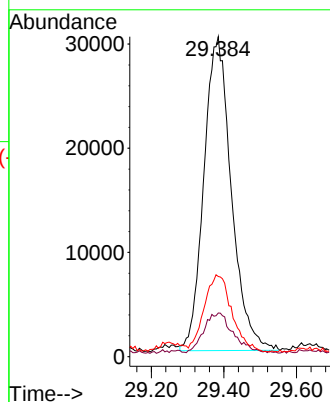
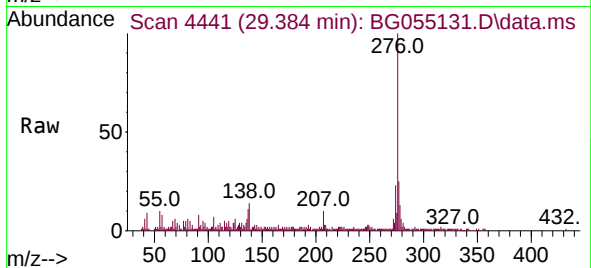
277 24.9 20.0 30.0

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 10/12/2022

Supervised By :Jagrut Upadhyay 10/12/2022



#88

Benzo(b)fluoranthene

Concen: 23.036 ng

RT: 24.320 min Scan# 3579

Delta R.T. 0.001 min

Lab File: BG055131.D

Acq: 11 Oct 2022 17:59

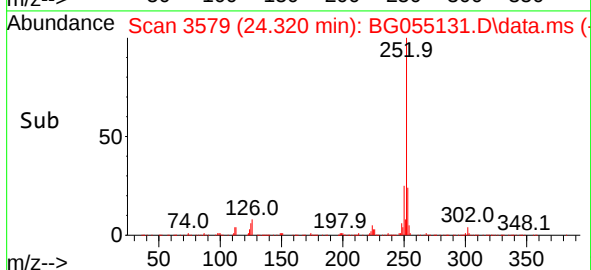
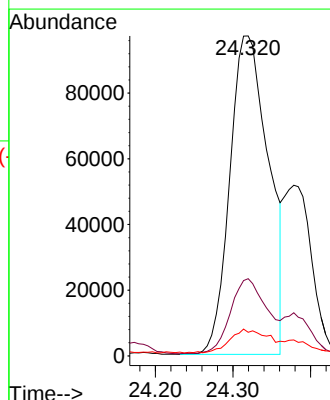
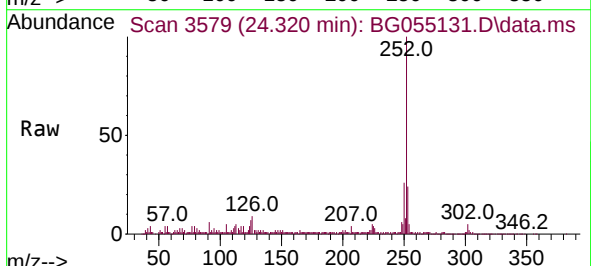
Tgt Ion:252 Resp: 336911

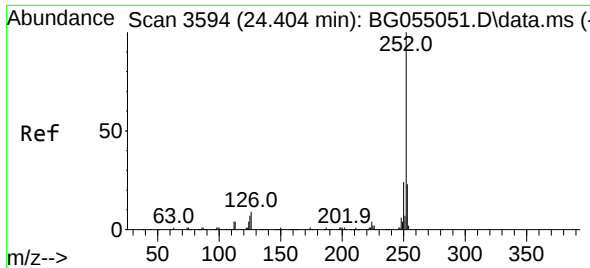
Ion Ratio Lower Upper

252 100

253 24.1 17.9 26.9

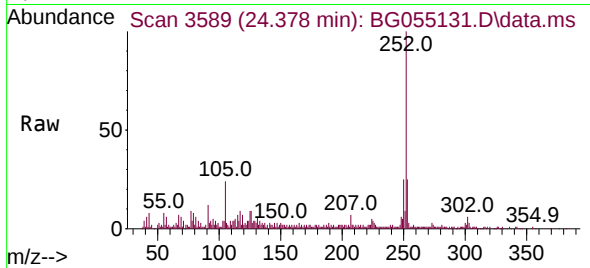
125 7.4 6.1 9.1





#89
Benzo(k)fluoranthene
Concen: 8.452 ng m
RT: 24.378 min Scan# 3589
Delta R.T. -0.011 min
Lab File: BG055131.D
Acq: 11 Oct 2022 17:59

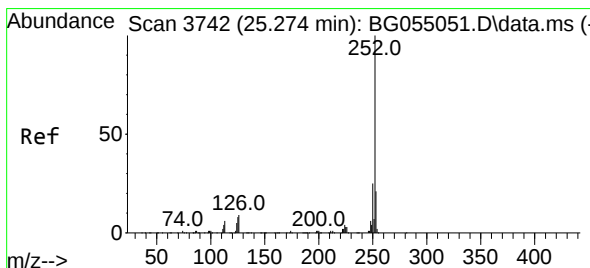
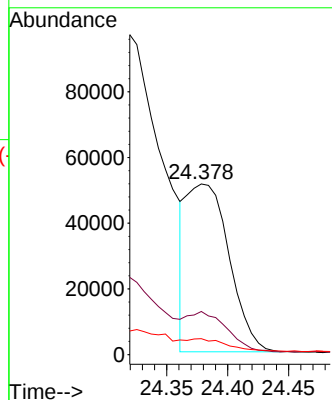
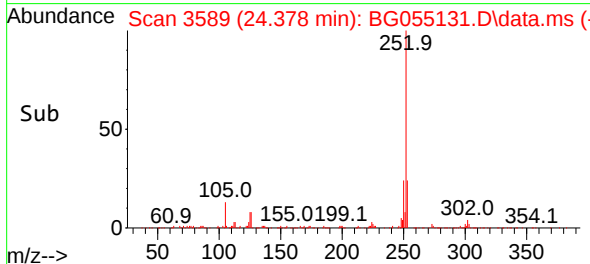
Instrument :
BNA_G
ClientSampleId :
COMP-B-2-VERT



Tgt Ion:252 Resp: 124534
Ion Ratio Lower Upper
252 100
253 25.2 17.9 26.9
125 9.3 5.8 8.6

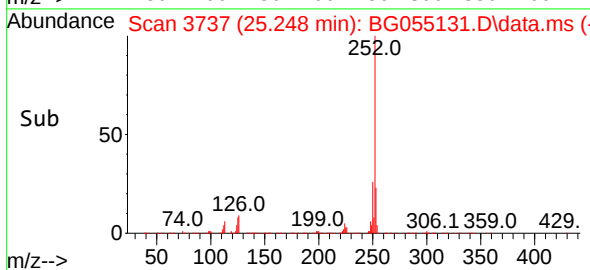
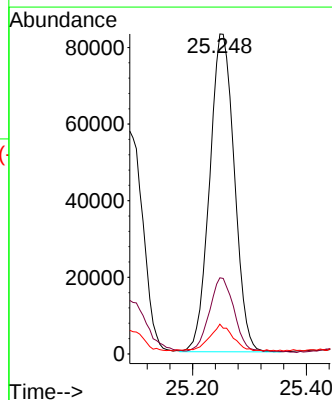
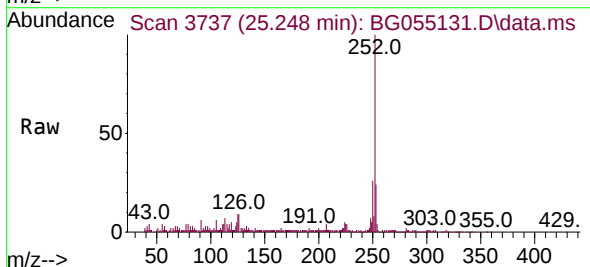
Manual Integrations
APPROVED

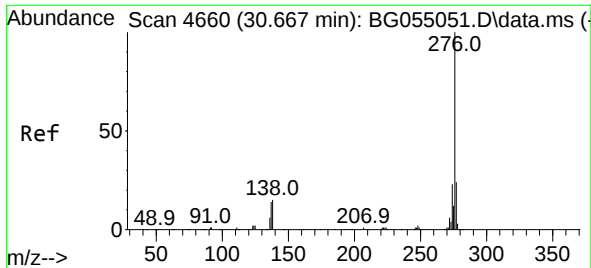
Reviewed By :Christian Giraldo 10/12/2022
Supervised By :Jagrut Upadhyay 10/12/2022



#90
Benzo(a)pyrene
Concen: 19.994 ng
RT: 25.248 min Scan# 3737
Delta R.T. -0.005 min
Lab File: BG055131.D
Acq: 11 Oct 2022 17:59

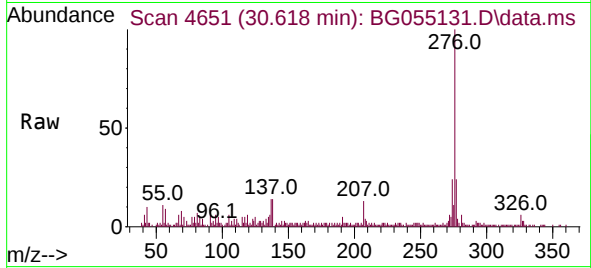
Tgt Ion:252 Resp: 250631
Ion Ratio Lower Upper
252 100
253 23.8 16.9 25.3
125 9.3 6.6 9.8





#92
Benzo(g,h,i)perylene
Concen: 9.882 ng
RT: 30.618 min Scan# 4651
Delta R.T. -0.011 min
Lab File: BG055131.D
Acq: 11 Oct 2022 17:59

Instrument :
BNA_G
ClientSampleId :
COMP-B-2-VERT



Tgt Ion:276 Resp: 144350
Ion Ratio Lower Upper
276 100
277 23.9 18.8 28.2
138 14.3 11.8 17.6

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