

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG120222\
 Data File : BG055873.D
 Acq On : 2 Dec 2022 14:22
 Operator : CG/JU
 Sample : N5819-01DL 10X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 S1DL

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 12/05/2022
 Supervised By : Jagrut Upadhyay 12/05/2022

Quant Time: Dec 02 15:04:00 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG111622.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 02 04:07:17 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.203	152	41747	20.000	ng	0.00
21) Naphthalene-d8	11.029	136	201603	20.000	ng	0.00
39) Acenaphthene-d10	14.830	164	150317	20.000	ng	0.00
64) Phenanthrene-d10	17.574	188	321693	20.000	ng	0.00
76) Chrysene-d12	21.857	240	297420	20.000	ng	0.00
86) Perylene-d12	25.236	264	319009	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.729	112	20188	8.741	ng	0.00
7) Phenol-d6	7.351	99	28046	9.122	ng	0.00
23) Nitrobenzene-d5	9.372	82	18881	4.950	ng	-0.01
42) 2,4,6-Tribromophenol	16.317	330	13858	6.547	ng	0.00
45) 2-Fluorobiphenyl	13.449	172	52320	5.214	ng	0.00
79) Terphenyl-d14	20.153	244	82355	5.538	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	11.082	128	165403	15.177	ng	100
37) 2-Methylnaphthalene	12.668	142	82583	10.120	ng	98
38) 1-Methylnaphthalene	12.885	142	70112	8.851	ng	100
46) 1,1'-Biphenyl	13.661	154	24166	2.206	ng	97
49) Acenaphthylene	14.554	152	158192	11.283	ng	99
55) Dibenzofuran	15.224	168	79580	5.630	ng	99
58) Fluorene	15.870	166	145451	12.883	ng	97
71) Phenanthrene	17.615	178	829336	47.773	ng	99
72) Anthracene	17.703	178	252557	14.973	ng	99
73) Carbazole	17.968	167	40370	2.662	ng	100
75) Fluoranthene	19.613	202	548544	25.973	ng	100
78) Pyrene	19.971	202	570338	28.330	ng	99
81) Benzo(a)anthracene	21.840	228	277947	13.568	ng	97
83) Chrysene	21.904	228	229424	11.764	ng	99
87) Indeno(1,2,3-cd)pyrene	29.113	276	112656	4.311	ng	# 97
88) Benzo(b)fluoranthene	24.160	252	225825	10.870	ng	98
89) Benzo(k)fluoranthene	24.219	252	80709m	3.897	ng	
90) Benzo(a)pyrene	25.071	252	227202	12.744	ng	97
92) Benzo(g,h,i)perylene	30.335	276	112301	5.217	ng	98

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

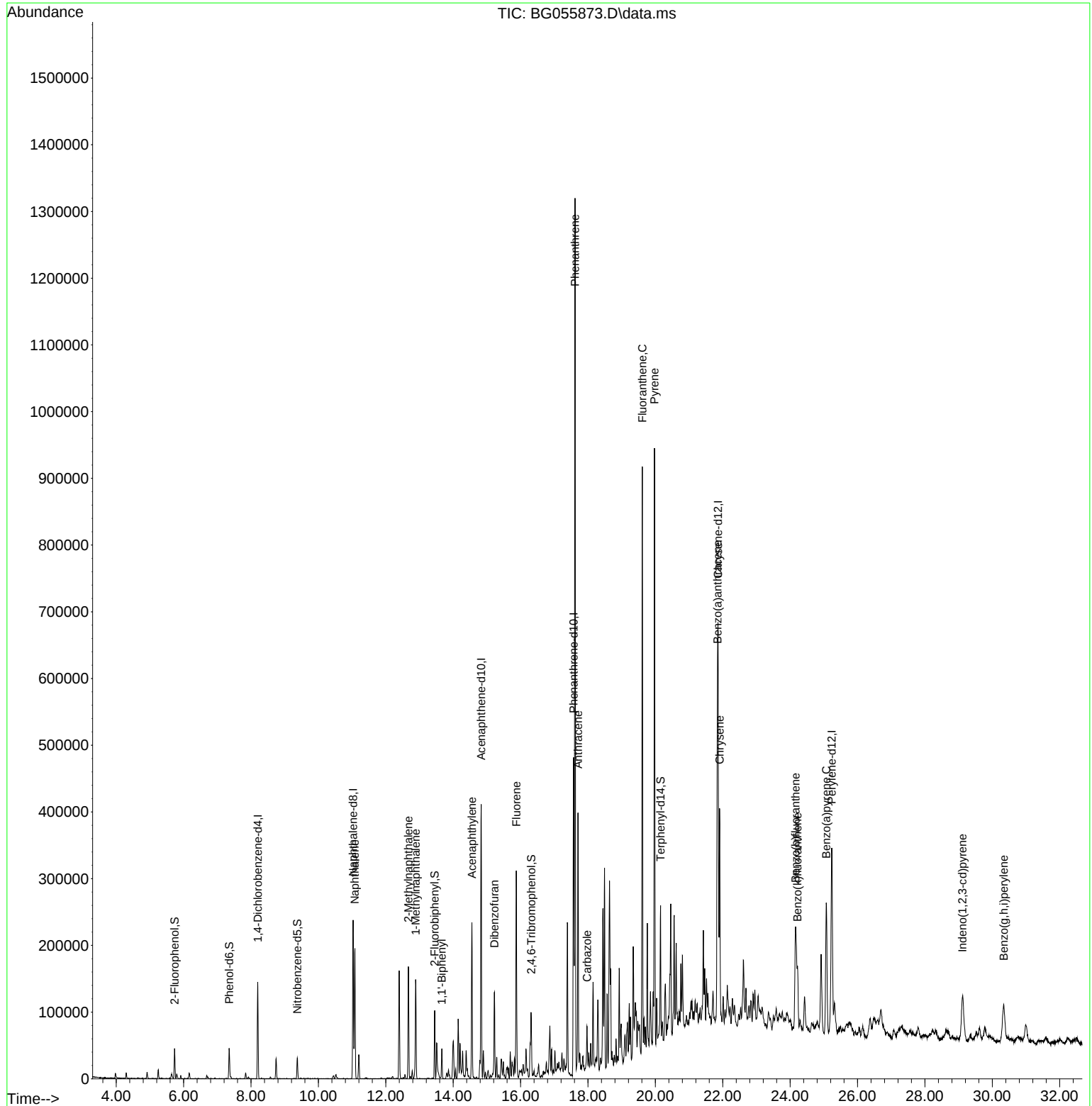
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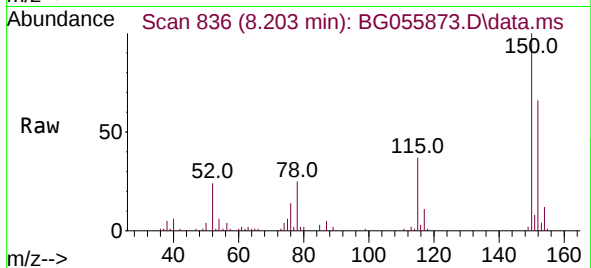
Reviewed By : Christian Giraldo 12/05/2022
Supervised By : Jagrut Upadhyay 12/05/2022





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.203 min Scan# 845
Delta R.T. -0.002 min
Lab File: BG055873.D
Acq: 2 Dec 2022 14:22

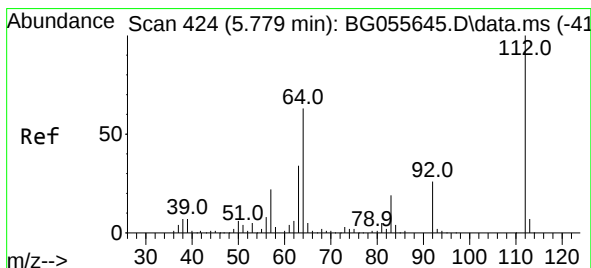
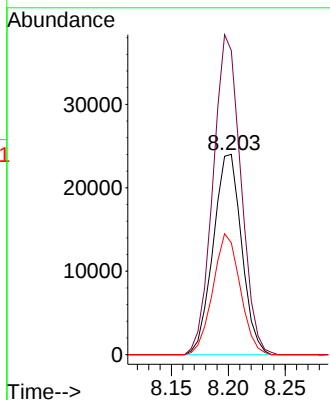
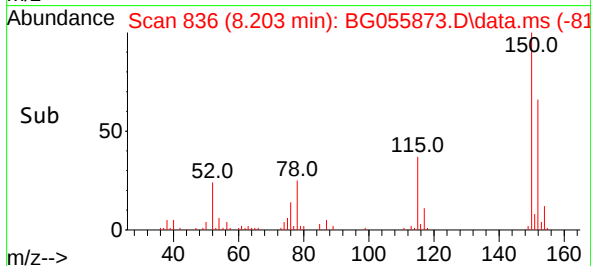
Instrument :
BNA_G
ClientSampleId :
S1DL



Tgt Ion:152 Resp: 4174
Ion Ratio Lower Upper
152 100
150 151.8 123.0 184.6
115 55.8 47.0 70.4

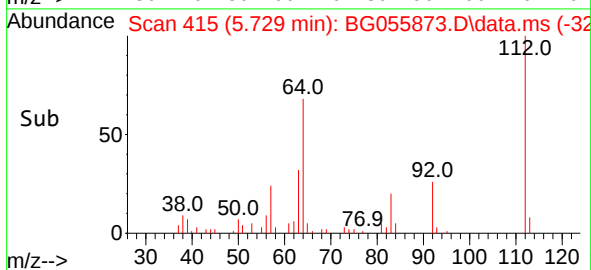
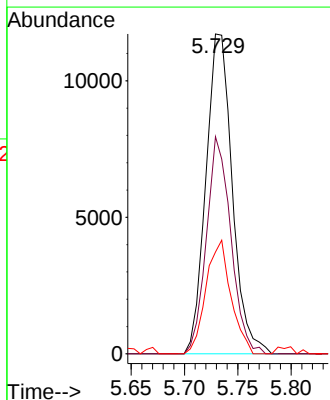
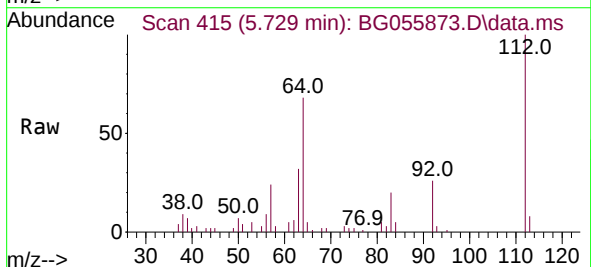
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#5
2-Fluorophenol
Concen: 8.741 ng
RT: 5.729 min Scan# 415
Delta R.T. -0.009 min
Lab File: BG055873.D
Acq: 2 Dec 2022 14:22

Tgt Ion:112 Resp: 20188
Ion Ratio Lower Upper
112 100
64 67.9 50.6 76.0
63 31.8 27.5 41.3





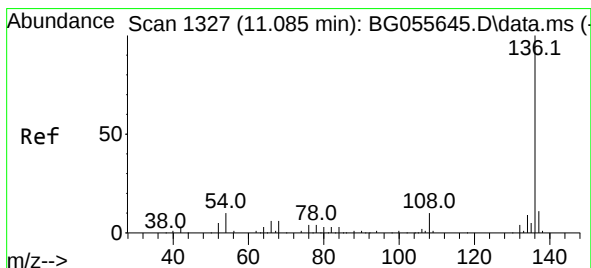
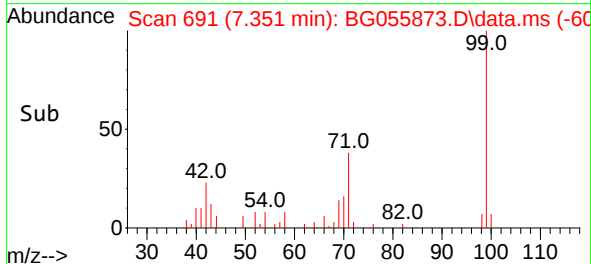
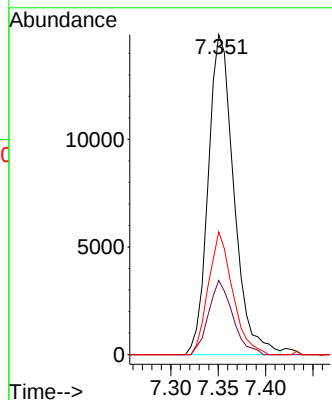
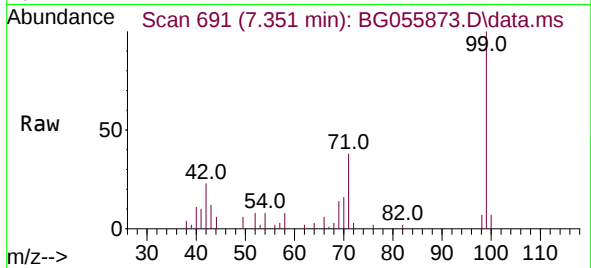
#7
Phenol-d6
Concen: 9.122 ng
RT: 7.351 min Scan# 69
Delta R.T. -0.009 min
Lab File: BG055873.D
Acq: 2 Dec 2022 14:22

Instrument :
BNA_G
ClientSampleId :
S1DL

Tgt Ion: 99 Resp: 28046
Ion Ratio Lower Upper
99 100
42 23.2 18.0 27.0
71 38.4 29.0 43.6

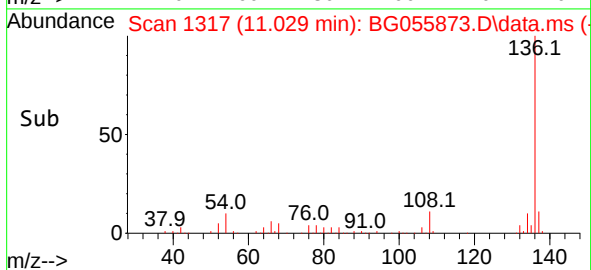
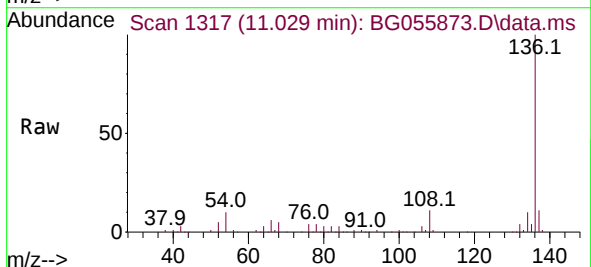
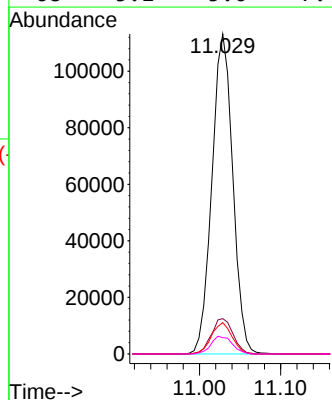
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#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.029 min Scan# 1317
Delta R.T. -0.009 min
Lab File: BG055873.D
Acq: 2 Dec 2022 14:22

Tgt Ion:136 Resp: 201603
Ion Ratio Lower Upper
136 100
137 11.0 9.0 13.6
54 9.8 7.8 11.6
68 5.1 5.0 7.4





#23

Nitrobenzene-d5

Concen: 4.950 ng

RT: 9.372 min Scan# 1045

Delta R.T. -0.015 min

Lab File: BG055873.D

Acq: 2 Dec 2022 14:22

Instrument :

BNA_G

ClientSampleId :

S1DL

Tgt Ion: 82 Resp: 1888

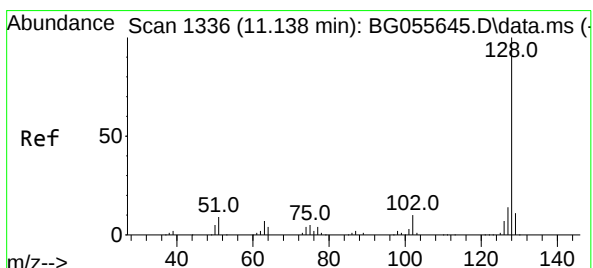
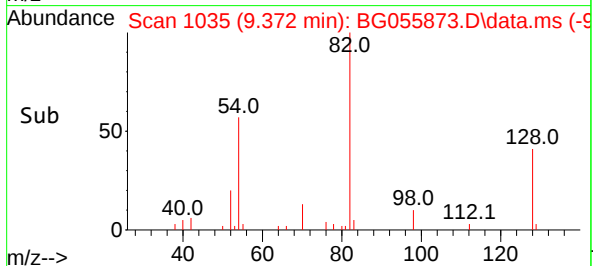
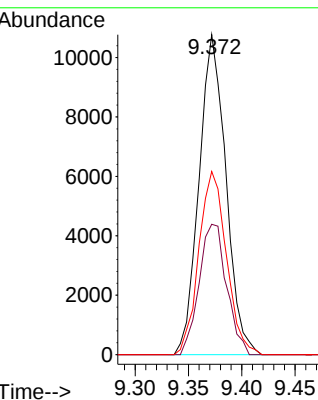
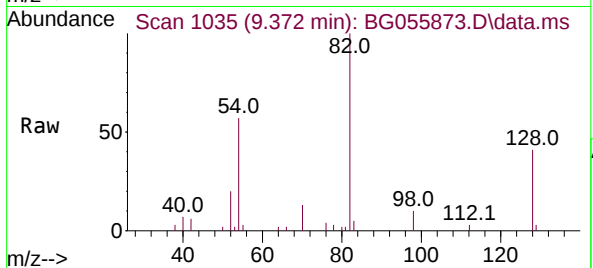
Ion	Ratio	Lower	Upper
82	100		
128	40.7	34.1	51.1
54	57.2	47.3	70.9

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#31

Naphthalene

Concen: 15.177 ng

RT: 11.082 min Scan# 1326

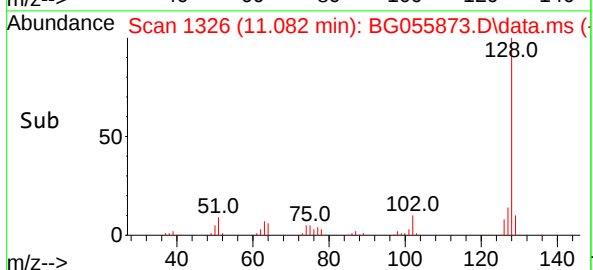
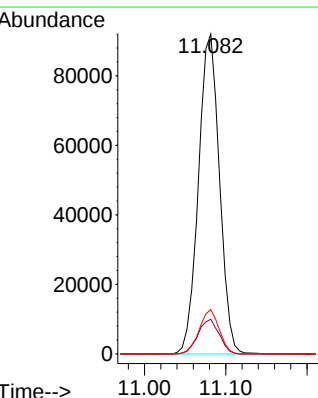
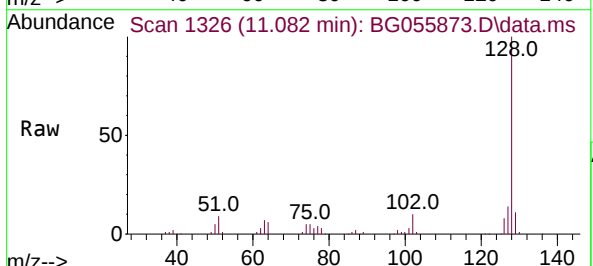
Delta R.T. -0.009 min

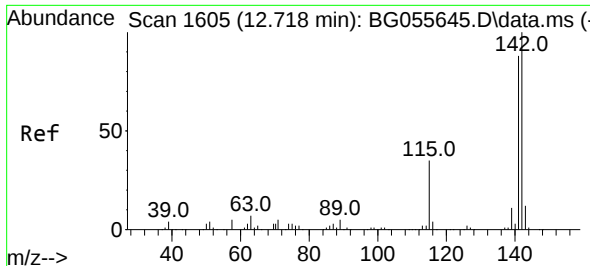
Lab File: BG055873.D

Acq: 2 Dec 2022 14:22

Tgt Ion:128 Resp: 165403

Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.7	13.1
127	13.8	10.9	16.3





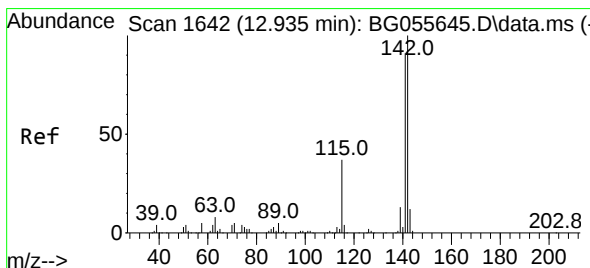
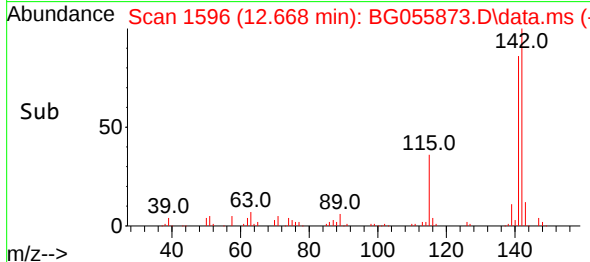
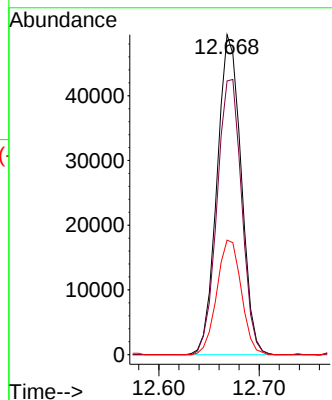
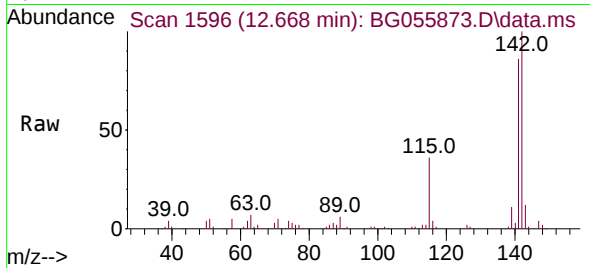
#37
2-Methylnaphthalene
Concen: 10.120 ng
RT: 12.668 min Scan# 11
Delta R.T. -0.015 min
Lab File: BG055873.D
Acq: 2 Dec 2022 14:22

Instrument :
BNA_G
ClientSampleId :
S1DL

Tgt Ion:142 Resp: 82583
Ion Ratio Lower Upper
142 100
141 85.5 70.3 105.5
115 35.8 27.9 41.9

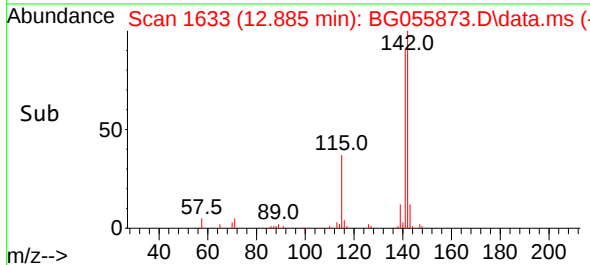
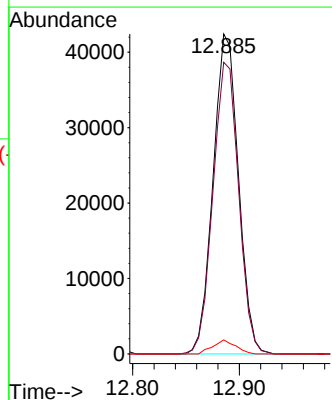
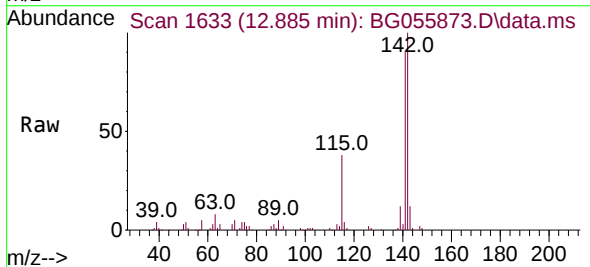
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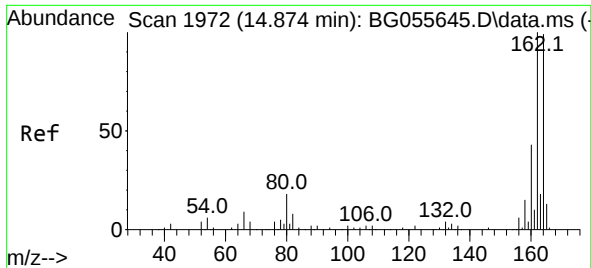
Reviewed By :Christian Giraldo 12/05/2022
Supervised By :Jagrut Upadhyay 12/05/2022



#38
1-Methylnaphthalene
Concen: 8.851 ng
RT: 12.885 min Scan# 1633
Delta R.T. -0.009 min
Lab File: BG055873.D
Acq: 2 Dec 2022 14:22

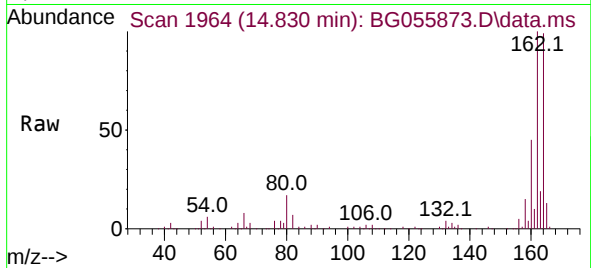
Tgt Ion:142 Resp: 70112
Ion Ratio Lower Upper
142 100
141 91.1 73.0 109.4
116 4.4 3.1 4.7





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.830 min Scan# 1972
Delta R.T. -0.009 min
Lab File: BG055873.D
Acq: 2 Dec 2022 14:22

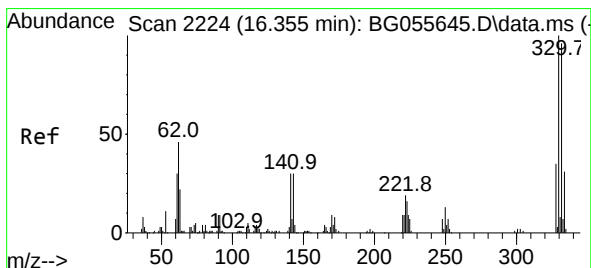
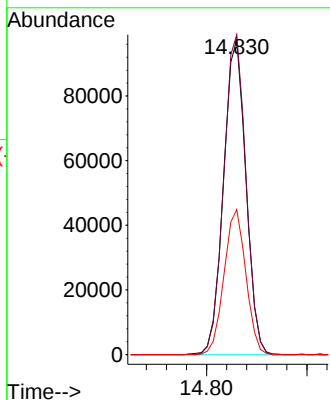
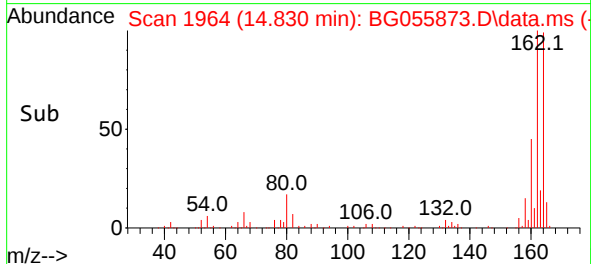
Instrument :
BNA_G
ClientSampleId :
S1DL



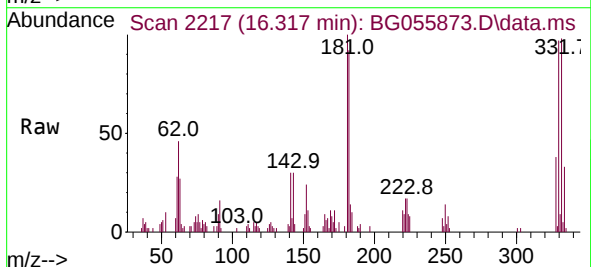
Tgt Ion:164 Resp: 150317
Ion Ratio Lower Upper
164 100
162 101.5 81.1 121.7
160 46.0 34.8 52.2

Manual Integrations
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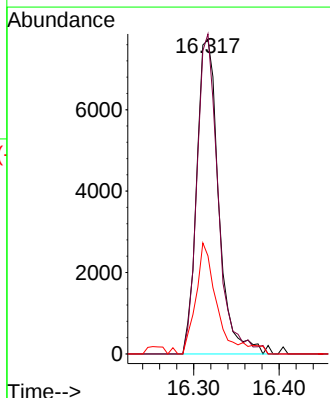
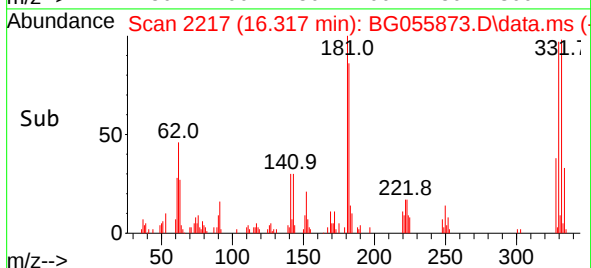
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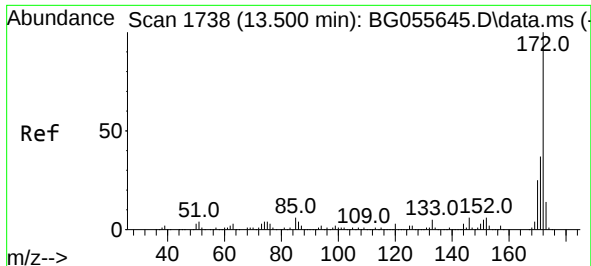


#42
2,4,6-Tribromophenol
Concen: 6.547 ng
RT: 16.317 min Scan# 2217
Delta R.T. -0.009 min
Lab File: BG055873.D
Acq: 2 Dec 2022 14:22



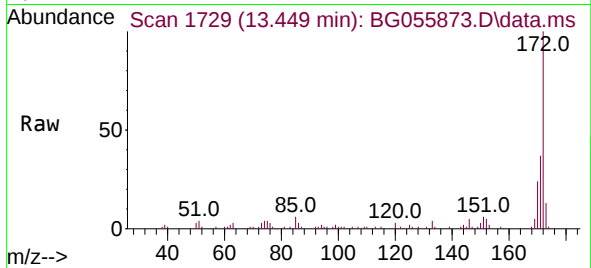
Tgt Ion:330 Resp: 13858
Ion Ratio Lower Upper
330 100
332 97.5 77.8 116.8
141 34.3 23.9 35.9





#45
2-Fluorobiphenyl
Concen: 5.214 ng
RT: 13.449 min Scan# 1729
Delta R.T. -0.009 min
Lab File: BG055873.D
Acq: 2 Dec 2022 14:22

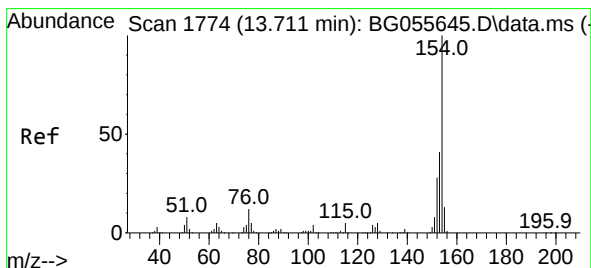
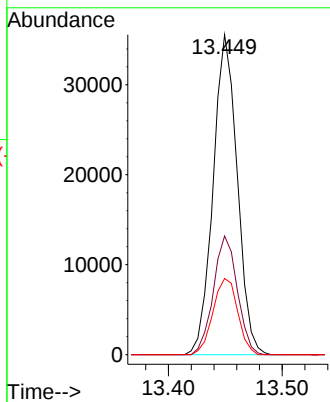
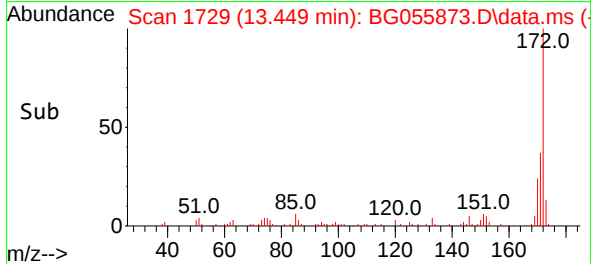
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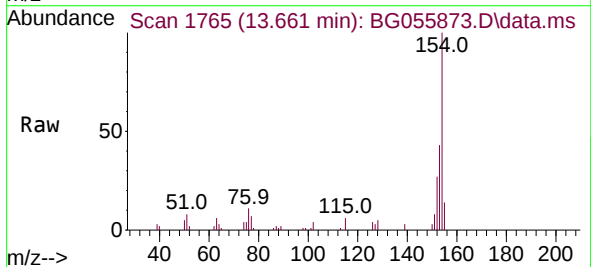
Tgt Ion:172 Resp: 52320
Ion Ratio Lower Upper
172 100
171 37.1 29.8 44.6
170 23.8 20.2 30.4

Manual Integrations
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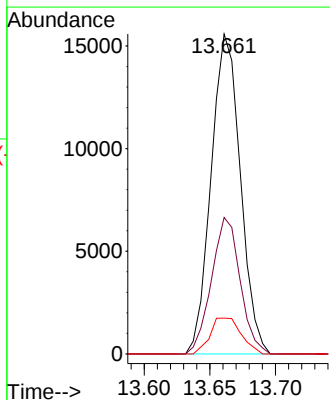
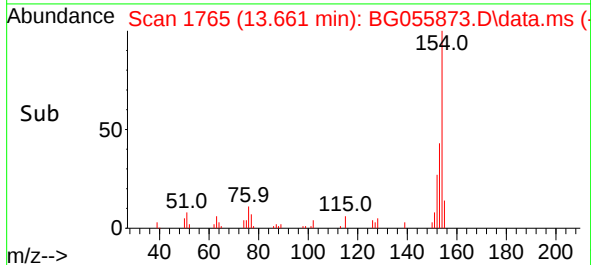
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Supervised By :Jagrut Upadhyay 12/05/2022

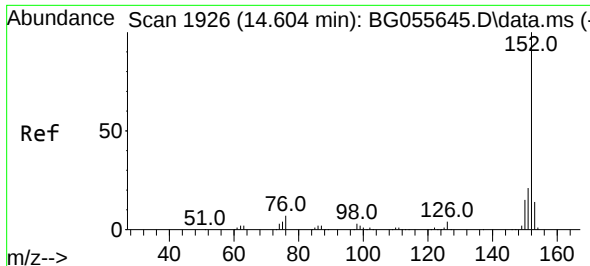


#46
1,1'-Biphenyl
Concen: 2.206 ng
RT: 13.661 min Scan# 1765
Delta R.T. -0.009 min
Lab File: BG055873.D
Acq: 2 Dec 2022 14:22



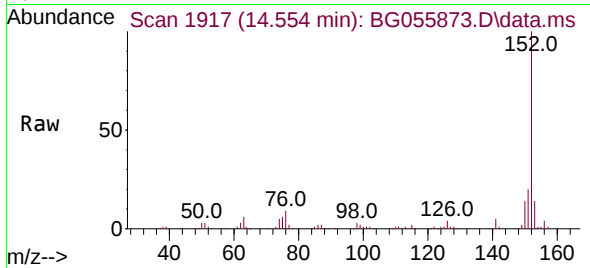
Tgt Ion:154 Resp: 24166
Ion Ratio Lower Upper
154 100
153 42.6 20.6 60.6
76 11.2 0.0 32.4





#49
Acenaphthylene
Concen: 11.283 ng
RT: 14.554 min Scan# 1917
Delta R.T. -0.009 min
Lab File: BG055873.D
Acq: 2 Dec 2022 14:22

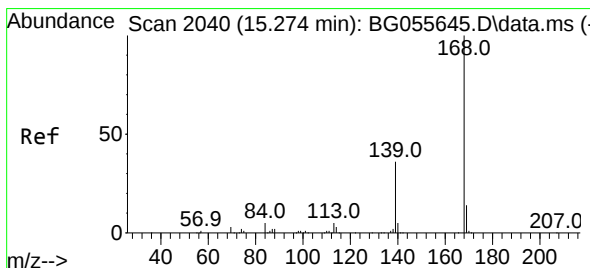
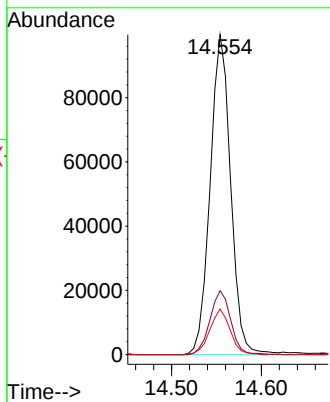
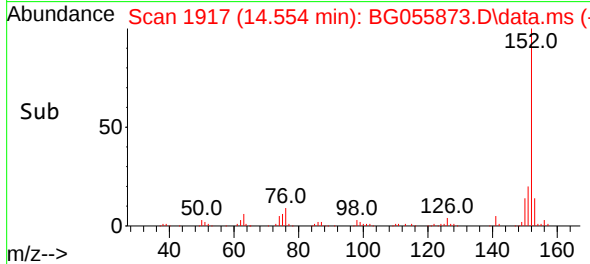
Instrument :
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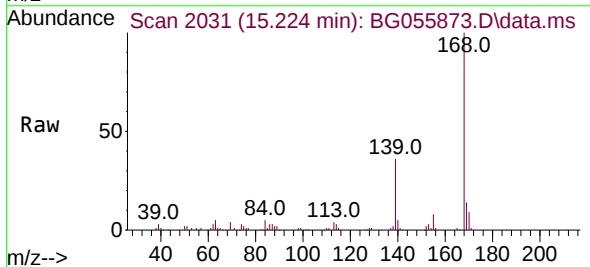
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Ion Ratio Lower Upper
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151 20.0 16.4 24.6
153 14.2 11.0 16.4

Manual Integrations
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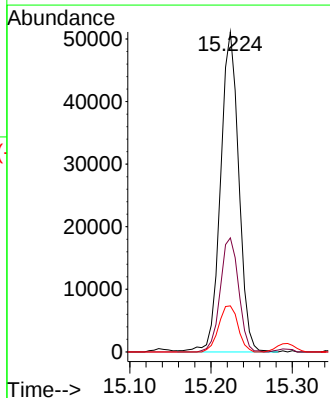
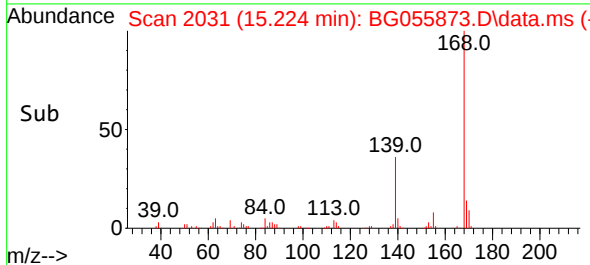
Reviewed By :Christian Giraldo 12/05/2022
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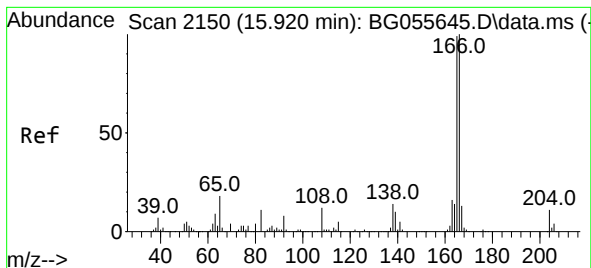


#55
Dibenzofuran
Concen: 5.630 ng
RT: 15.224 min Scan# 2031
Delta R.T. -0.009 min
Lab File: BG055873.D
Acq: 2 Dec 2022 14:22



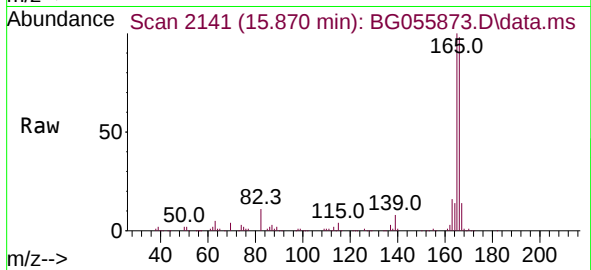
Tgt Ion:168 Resp: 79580
Ion Ratio Lower Upper
168 100
139 35.6 28.8 43.2
169 14.4 11.0 16.4





#58
Fluorene
Concen: 12.883 ng
RT: 15.870 min Scan# 2150
Delta R.T. -0.009 min
Lab File: BG055873.D
Acq: 2 Dec 2022 14:22

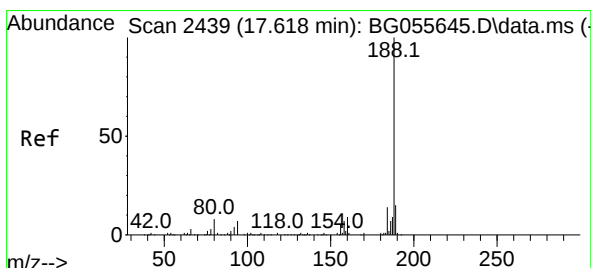
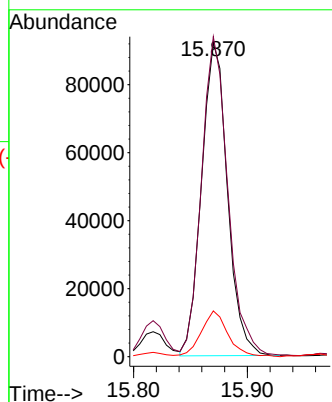
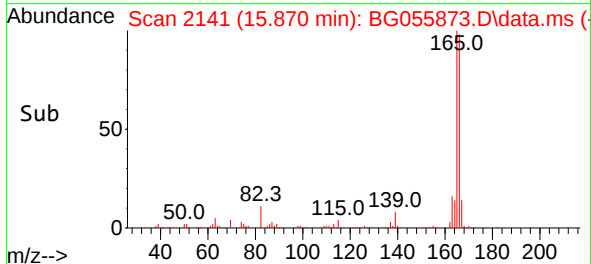
Instrument :
BNA_G
ClientSampleId :
S1DL



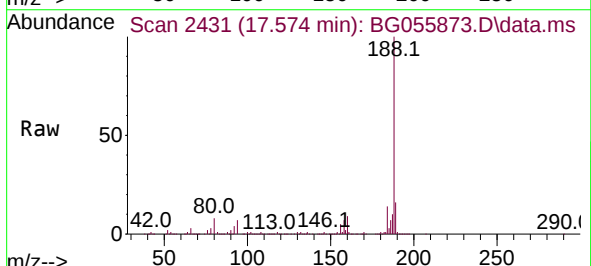
Tgt Ion:166 Resp: 14545
Ion Ratio Lower Upper
166 100
165 101.9 79.3 118.9
167 14.6 10.6 15.8

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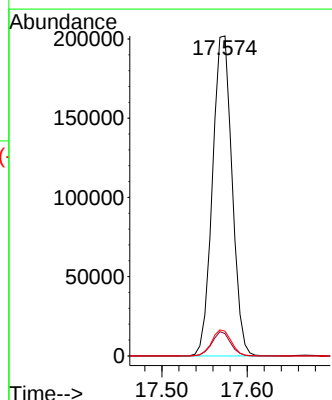
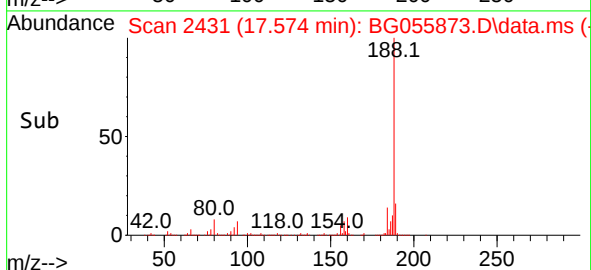
Reviewed By :Christian Giraldo 12/05/2022
Supervised By :Jagrut Upadhyay 12/05/2022

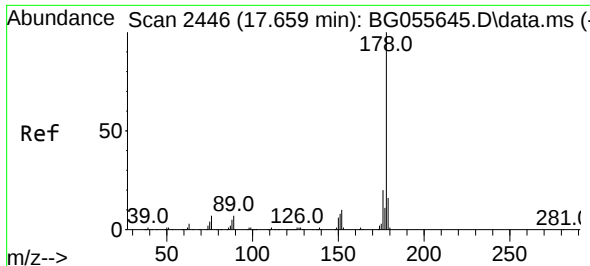


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.574 min Scan# 2431
Delta R.T. -0.003 min
Lab File: BG055873.D
Acq: 2 Dec 2022 14:22



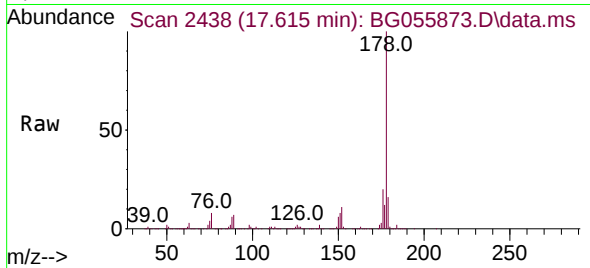
Tgt Ion:188 Resp: 321693
Ion Ratio Lower Upper
188 100
94 7.0 5.4 8.2
80 7.7 6.6 10.0





#71
Phenanthrene
Concen: 47.773 ng
RT: 17.615 min Scan# 2446
Delta R.T. -0.009 min
Lab File: BG055873.D
Acq: 2 Dec 2022 14:22

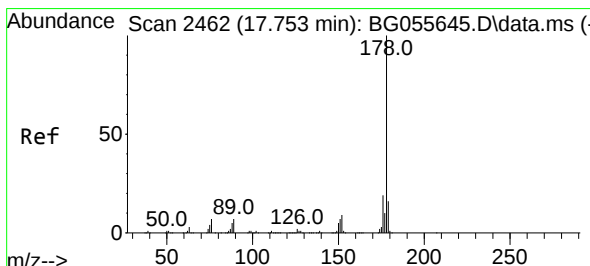
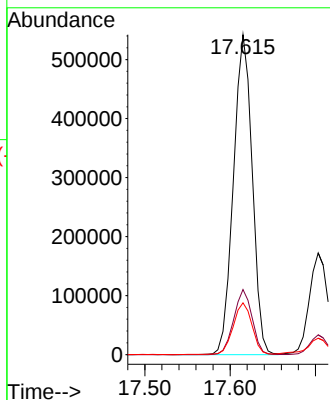
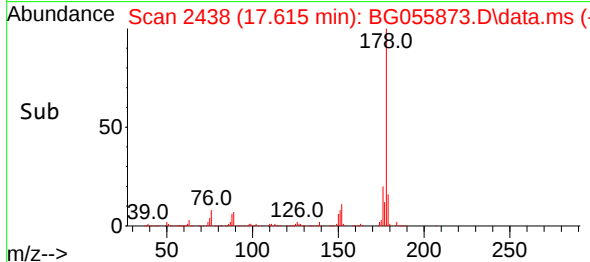
Instrument :
BNA_G
ClientSampleId :
S1DL



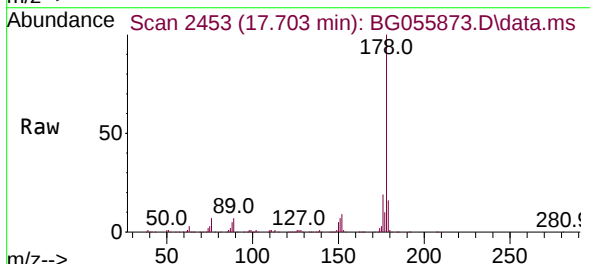
Tgt Ion:178 Resp: 829336
Ion Ratio Lower Upper
178 100
176 20.3 16.0 24.0
179 16.2 12.7 19.1

Manual Integrations
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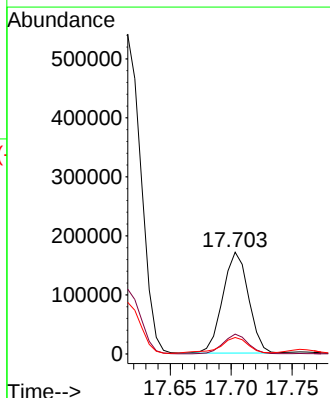
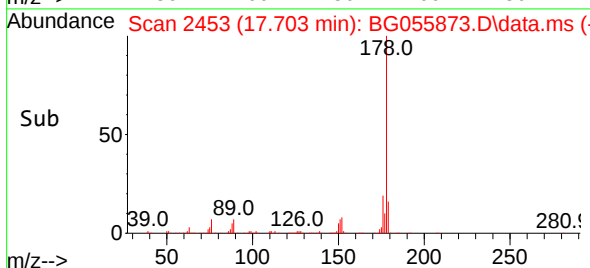
Reviewed By :Christian Giraldo 12/05/2022
Supervised By :Jagrut Upadhyay 12/05/2022

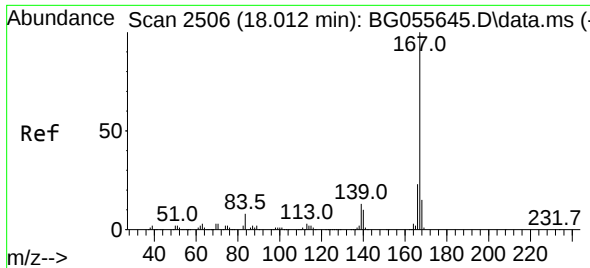


#72
Anthracene
Concen: 14.973 ng
RT: 17.703 min Scan# 2453
Delta R.T. -0.009 min
Lab File: BG055873.D
Acq: 2 Dec 2022 14:22



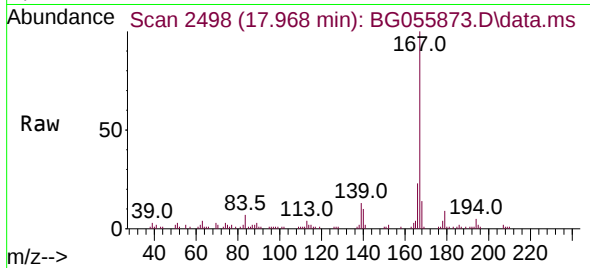
Tgt Ion:178 Resp: 252557
Ion Ratio Lower Upper
178 100
176 19.4 15.5 23.3
179 16.1 12.5 18.7





#73
 Carbazole
 Concen: 2.662 ng
 RT: 17.968 min Scan# 2498
 Delta R.T. -0.009 min
 Lab File: BG055873.D
 Acq: 2 Dec 2022 14:22

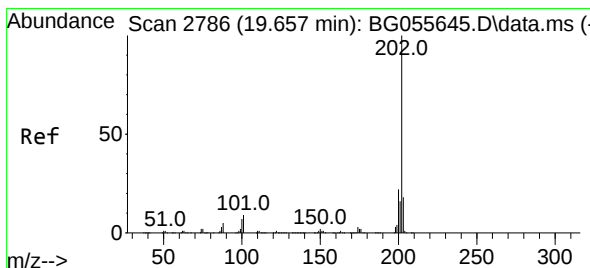
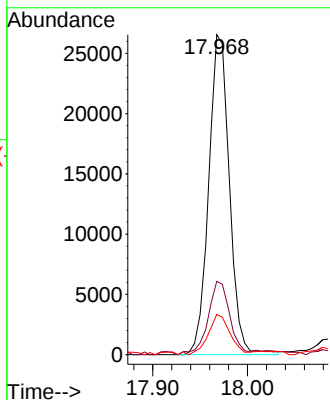
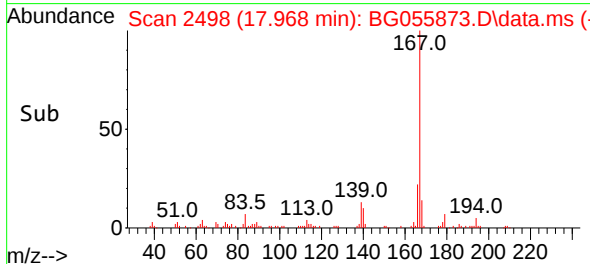
Instrument :
 BNA_G
 ClientSampleId :
 S1DL



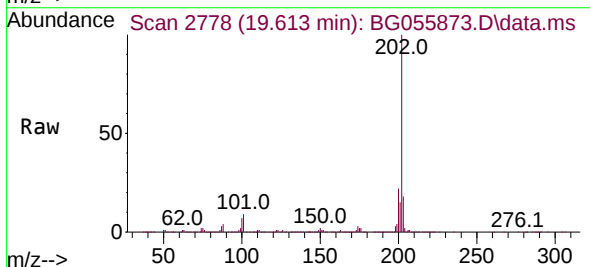
Tgt Ion:167 Resp: 40370
 Ion Ratio Lower Upper
 167 100
 166 22.9 18.2 27.2
 139 12.6 10.2 15.4

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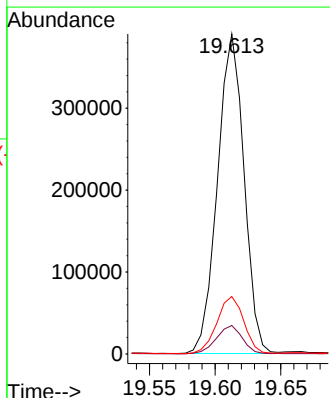
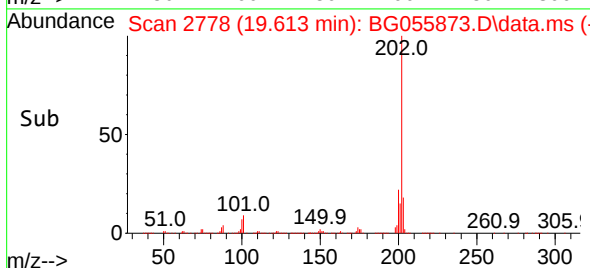
Reviewed By :Christian Giraldo 12/05/2022
 Supervised By :Jagrut Upadhyay 12/05/2022

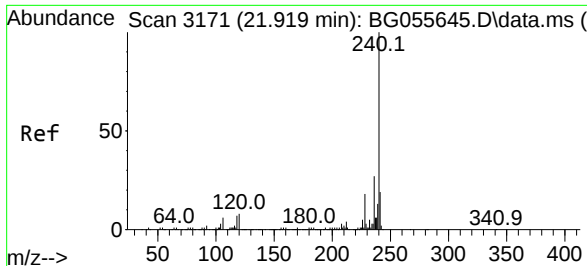


#75
 Fluoranthene
 Concen: 25.973 ng
 RT: 19.613 min Scan# 2778
 Delta R.T. -0.003 min
 Lab File: BG055873.D
 Acq: 2 Dec 2022 14:22



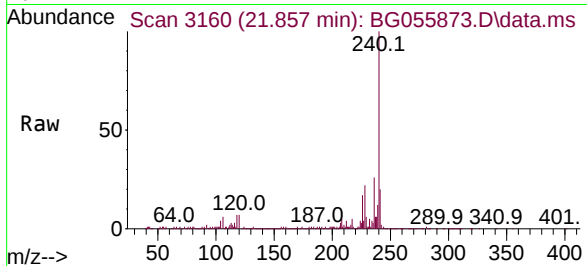
Tgt Ion:202 Resp: 548544
 Ion Ratio Lower Upper
 202 100
 101 8.9 0.0 28.8
 203 17.9 0.0 38.1





#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.857 min Scan# 3171
Delta R.T. -0.009 min
Lab File: BG055873.D
Acq: 2 Dec 2022 14:22

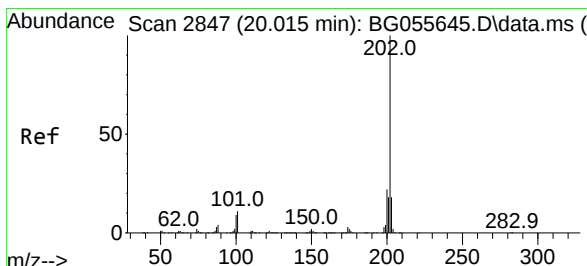
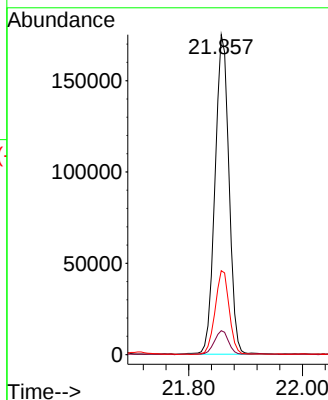
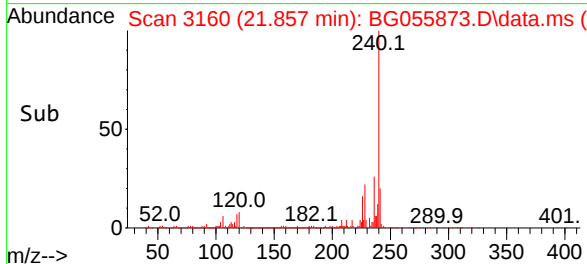
Instrument :
BNA_G
ClientSampleId :
S1DL



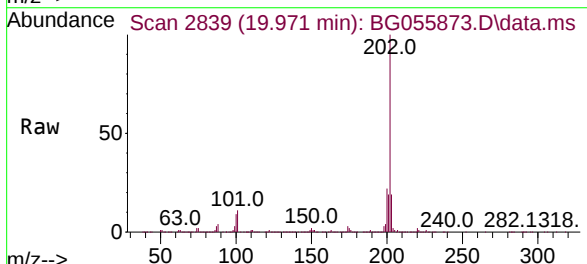
Tgt Ion:240 Resp: 297420
Ion Ratio Lower Upper
240 100
120 7.5 6.3 9.5
236 26.2 21.9 32.9

Manual Integrations
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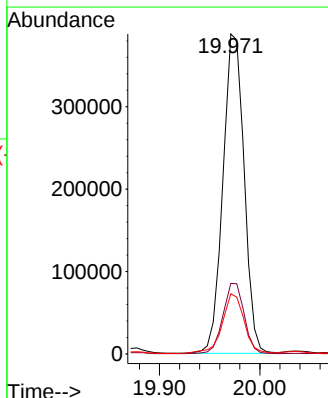
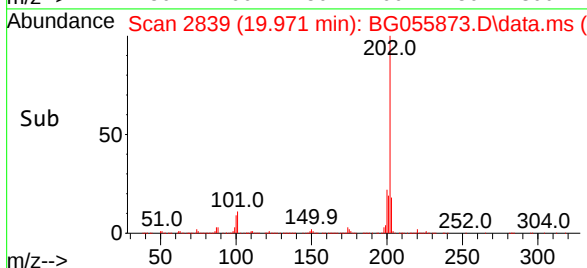
Reviewed By :Christian Giraldo 12/05/2022
Supervised By :Jagrut Upadhyay 12/05/2022

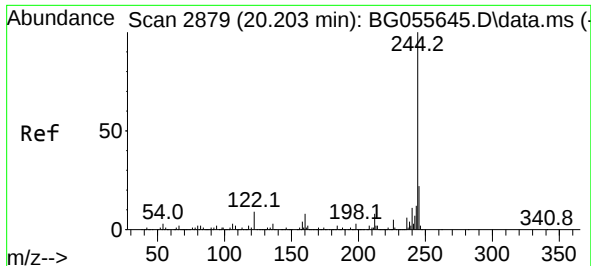


#78
Pyrene
Concen: 28.330 ng
RT: 19.971 min Scan# 2839
Delta R.T. -0.009 min
Lab File: BG055873.D
Acq: 2 Dec 2022 14:22



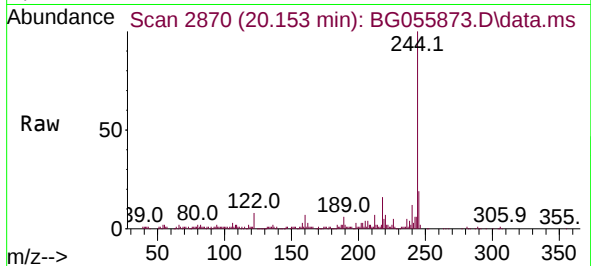
Tgt Ion:202 Resp: 570338
Ion Ratio Lower Upper
202 100
200 22.0 17.8 26.6
203 18.8 14.4 21.6





#79
 Terphenyl-d14
 Concen: 5.538 ng
 RT: 20.153 min Scan# 2879
 Delta R.T. -0.009 min
 Lab File: BG055873.D
 Acq: 2 Dec 2022 14:22

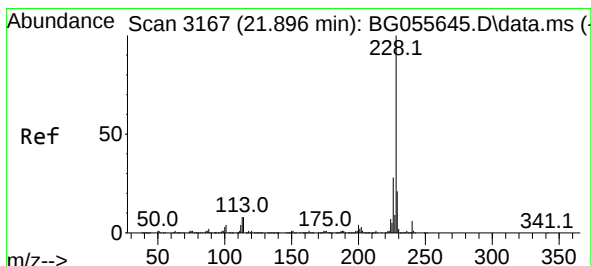
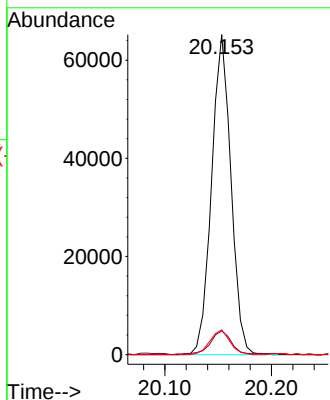
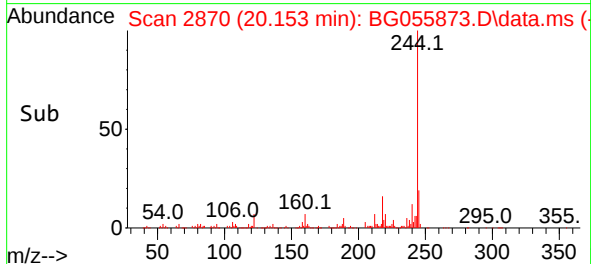
Instrument :
 BNA_G
 ClientSampleId :
 S1DL



Tgt Ion:244 Resp: 8235
 Ion Ratio Lower Upper
 244 100
 212 7.4 6.3 9.5
 122 7.7 6.9 10.3

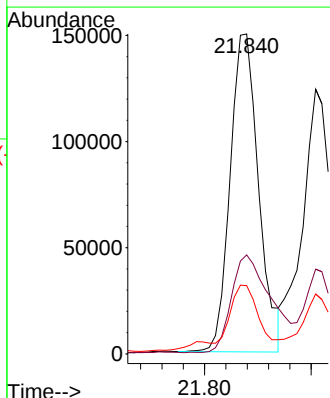
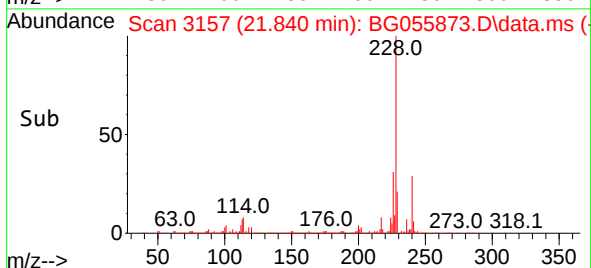
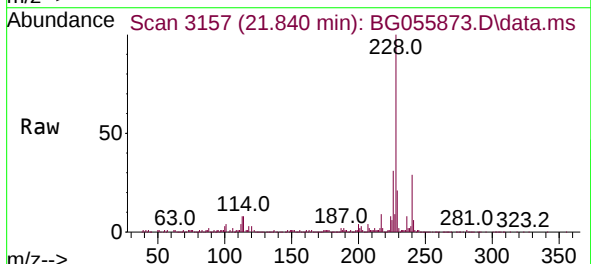
Manual Integrations
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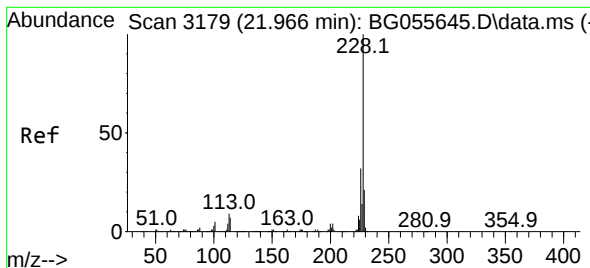
Reviewed By :Christian Giraldo 12/05/2022
 Supervised By :Jagrut Upadhyay 12/05/2022



#81
 Benzo(a)anthracene
 Concen: 13.568 ng
 RT: 21.840 min Scan# 3157
 Delta R.T. -0.009 min
 Lab File: BG055873.D
 Acq: 2 Dec 2022 14:22

Tgt Ion:228 Resp: 277947
 Ion Ratio Lower Upper
 228 100
 226 30.9 22.7 34.1
 229 21.3 16.5 24.7





#83

Chrysene

Concen: 11.764 ng

RT: 21.904 min Scan# 31

Delta R.T. -0.015 min

Lab File: BG055873.D

Acq: 2 Dec 2022 14:22

Instrument :

BNA_G

ClientSampleId :

S1DL

Tgt Ion:228 Resp: 229424

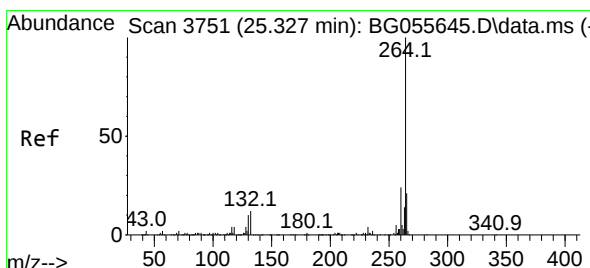
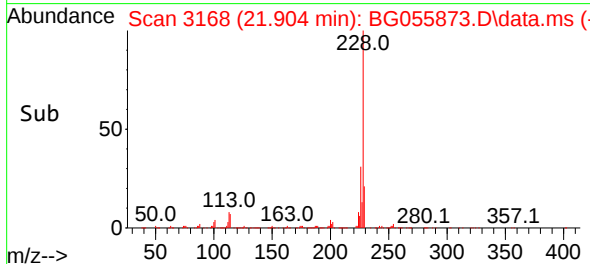
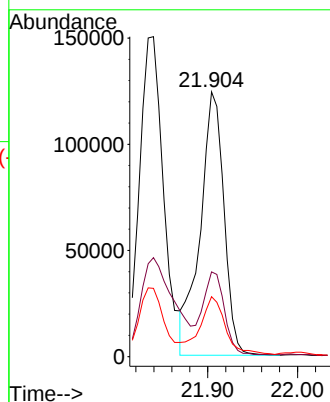
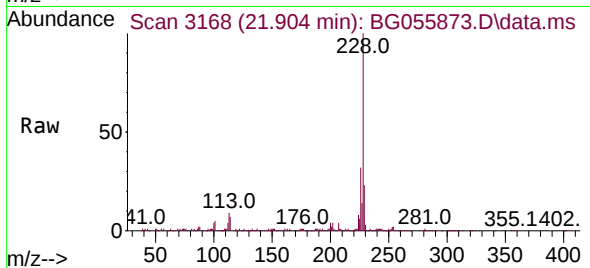
Ion	Ratio	Lower	Upper
228	100		
226	32.0	25.4	38.2
229	22.6	17.1	25.7

Manual Integrations

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Reviewed By :Christian Giraldo 12/05/2022

Supervised By :Jagrut Upadhyay 12/05/2022



#86

Perylene-d12

Concen: 20.000 ng

RT: 25.236 min Scan# 3735

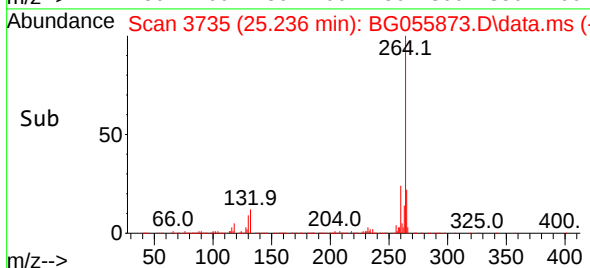
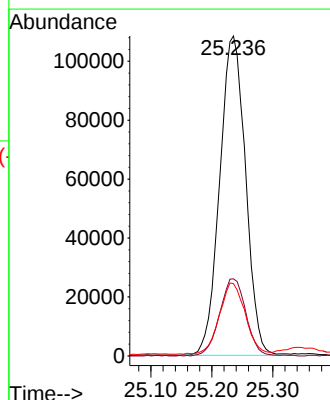
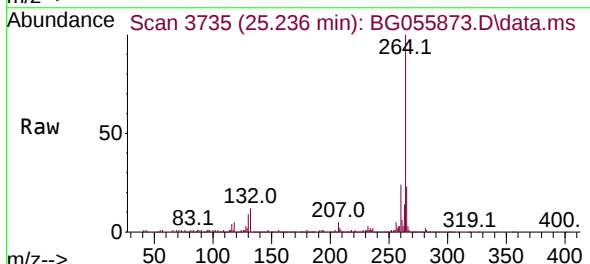
Delta R.T. -0.015 min

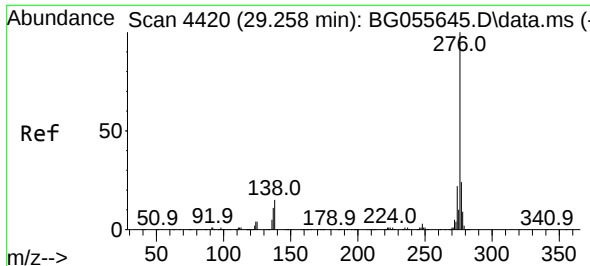
Lab File: BG055873.D

Acq: 2 Dec 2022 14:22

Tgt Ion:264 Resp: 319009

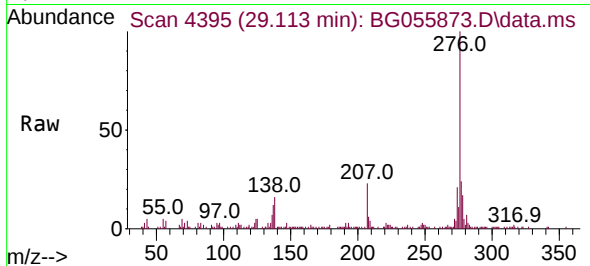
Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.5	29.3
265	22.6	17.1	25.7





#87
Indeno(1,2,3-cd)pyrene
Concen: 4.311 ng
RT: 29.113 min Scan# 4395
Delta R.T. -0.038 min
Lab File: BG055873.D
Acq: 2 Dec 2022 14:22

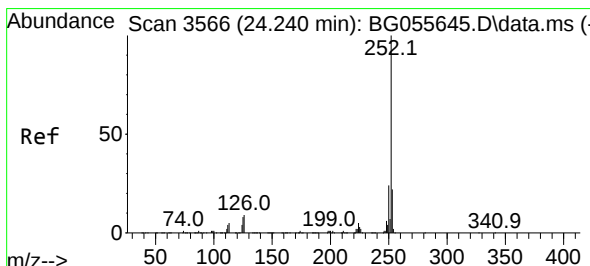
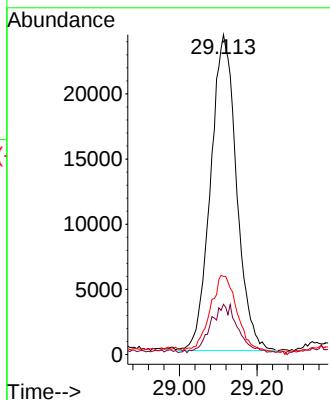
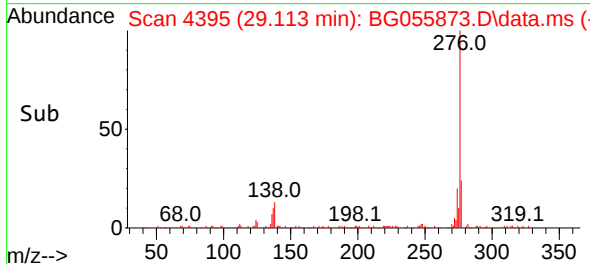
Instrument :
BNA_G
ClientSampleId :
S1DL



Tgt Ion:276 Resp: 112656
Ion Ratio Lower Upper
276 100
138 15.9 10.4 15.6
277 25.5 20.2 30.4

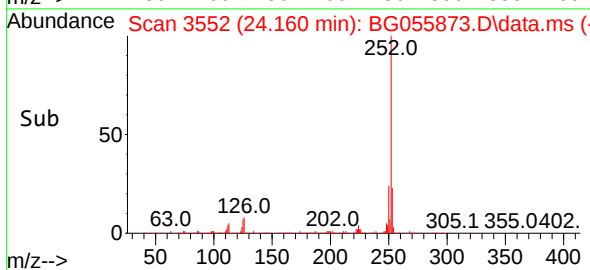
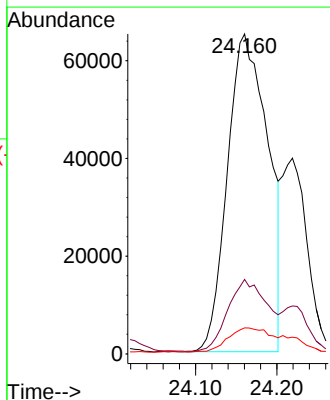
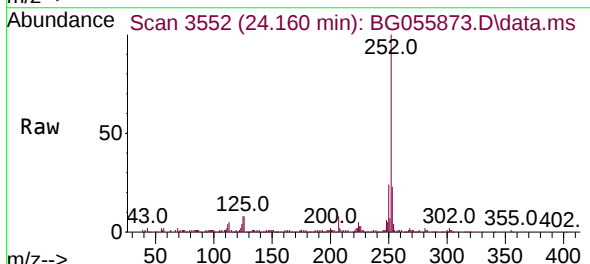
Manual Integrations
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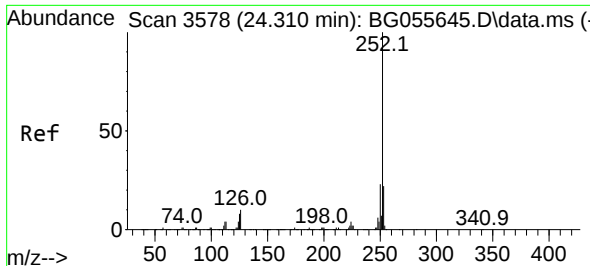
Reviewed By :Christian Giraldo 12/05/2022
Supervised By :Jagrut Upadhyay 12/05/2022



#88
Benzo(b)fluoranthene
Concen: 10.870 ng
RT: 24.160 min Scan# 3552
Delta R.T. -0.009 min
Lab File: BG055873.D
Acq: 2 Dec 2022 14:22

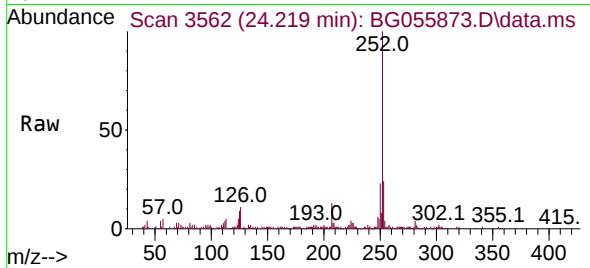
Tgt Ion:252 Resp: 225825
Ion Ratio Lower Upper
252 100
253 23.3 18.0 27.0
125 8.1 6.2 9.2





#89
Benzo(k)fluoranthene
Concen: 3.897 ng m
RT: 24.219 min Scan# 31
Delta R.T. -0.020 min
Lab File: BG055873.D
Acq: 2 Dec 2022 14:22

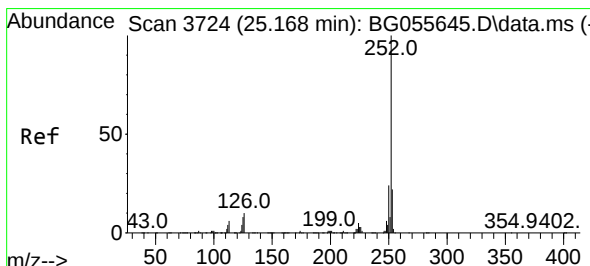
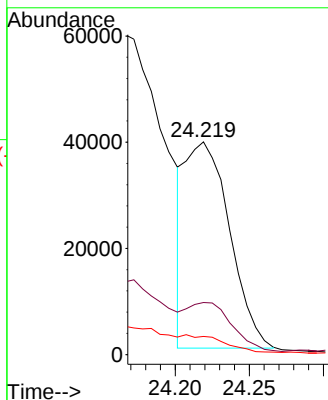
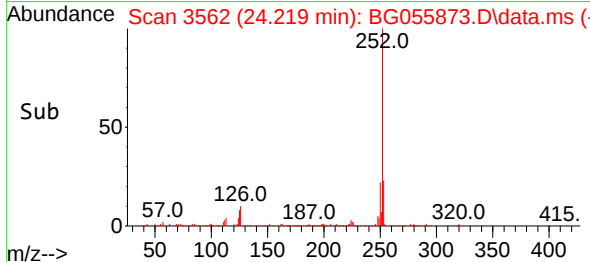
Instrument :
BNA_G
ClientSampleId :
S1DL



Tgt Ion:252 Resp: 80709
Ion Ratio Lower Upper
252 100
253 24.5 17.8 26.6
125 8.5 6.1 9.1

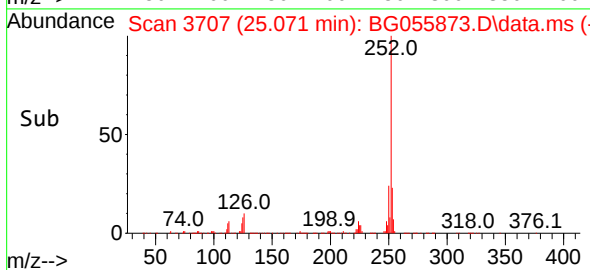
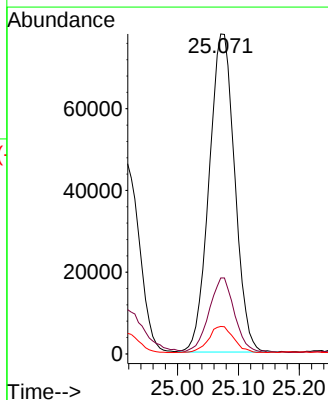
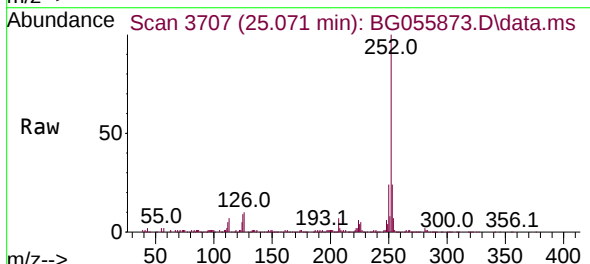
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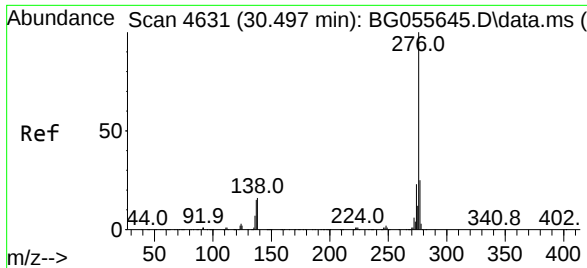
Reviewed By :Christian Giraldo 12/05/2022
Supervised By :Jagrut Upadhyay 12/05/2022



#90
Benzo(a)pyrene
Concen: 12.744 ng
RT: 25.071 min Scan# 3707
Delta R.T. -0.020 min
Lab File: BG055873.D
Acq: 2 Dec 2022 14:22

Tgt Ion:252 Resp: 227202
Ion Ratio Lower Upper
252 100
253 23.7 17.8 26.6
125 8.6 6.4 9.6





#92

Benzo(g,h,i)perylene

Concen: 5.217 ng

RT: 30.335 min Scan# 4603

Delta R.T. -0.038 min

Lab File: BG055873.D

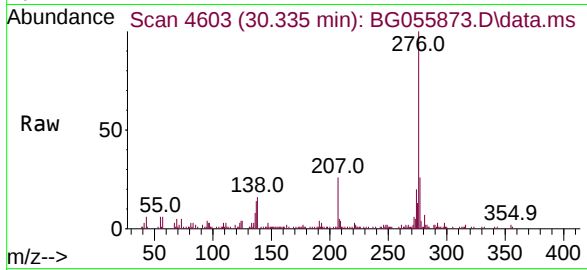
Acq: 2 Dec 2022 14:22

Instrument :

BNA_G

ClientSampleId :

S1DL



Tgt Ion:276 Resp: 11230

Ion Ratio Lower Upper

276 100

277 26.0 19.8 29.6

138 16.3 13.1 19.7

Manual Integrations

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Reviewed By :Christian Giraldo 12/05/2022

Supervised By :Jagrut Upadhyay 12/05/2022

