

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG022223\
 Data File : BG056698.D
 Acq On : 22 Feb 2023 15:13
 Operator : CG/JU
 Sample : 01638-01
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 VB-15-241

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 02/23/2023
 Supervised By : Jagrut Upadhyay 02/23/2023

Quant Time: Feb 22 17:16:30 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG021523.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 22 14:34:57 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.428	152	16076	20.000	ng	0.00
21) Naphthalene-d8	11.266	136	67766	20.000	ng	# 0.00
39) Acenaphthene-d10	15.032	164	52711	20.000	ng	0.00
64) Phenanthrene-d10	17.770	188	128779	20.000	ng	0.00
76) Chrysene-d12	22.077	240	109314	20.000	ng	0.00
86) Perylene-d12	25.614	264	121964	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.937	112	97045	98.220	ng	0.00
7) Phenol-d6	7.553	99	146457	100.349	ng	0.00
23) Nitrobenzene-d5	9.603	82	99170	74.929	ng	0.00
42) 2,4,6-Tribromophenol	16.507	330	79667	110.391	ng	0.00
45) 2-Fluorobiphenyl	13.663	172	241525	61.357	ng	0.00
79) Terphenyl-d14	20.332	244	451764	67.616	ng	0.00
Target Compounds						Qvalue
10) Phenol	7.582	94	3710	2.485	ng	97
31) Naphthalene	11.319	128	75112	19.999	ng	99
37) 2-Methylnaphthalene	12.888	142	34962	11.790	ng	99
38) 1-Methylnaphthalene	13.105	142	50140	18.120	ng	96
49) Acenaphthylene	14.756	152	13004	2.533	ng	# 79
52) Acenaphthene	15.097	154	62805	19.831	ng	97
55) Dibenzofuran	15.426	168	15970	2.985	ng	# 92
58) Fluorene	16.066	166	48772	11.529	ng	98
71) Phenanthrene	17.811	178	270353	38.587	ng	98
72) Anthracene	17.900	178	76741	10.704	ng	99
75) Fluoranthene	19.792	202	139013	15.037	ng	99
78) Pyrene	20.156	202	172277	20.868	ng	99
81) Benzo(a)anthracene	22.054	228	72616	8.933	ng	98
83) Chrysene	22.130	228	63356	8.337	ng	98
87) Indeno(1,2,3-cd)pyrene	29.680	276	22736	2.380	ng	# 85
88) Benzo(b)fluoranthene	24.480	252	48224m	6.052	ng	
89) Benzo(k)fluoranthene	24.551	252	18450m	2.355	ng	
90) Benzo(a)pyrene	25.438	252	52511	6.856	ng	100
92) Benzo(g,h,i)perylene	30.973	276	22208m	2.873	ng	

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

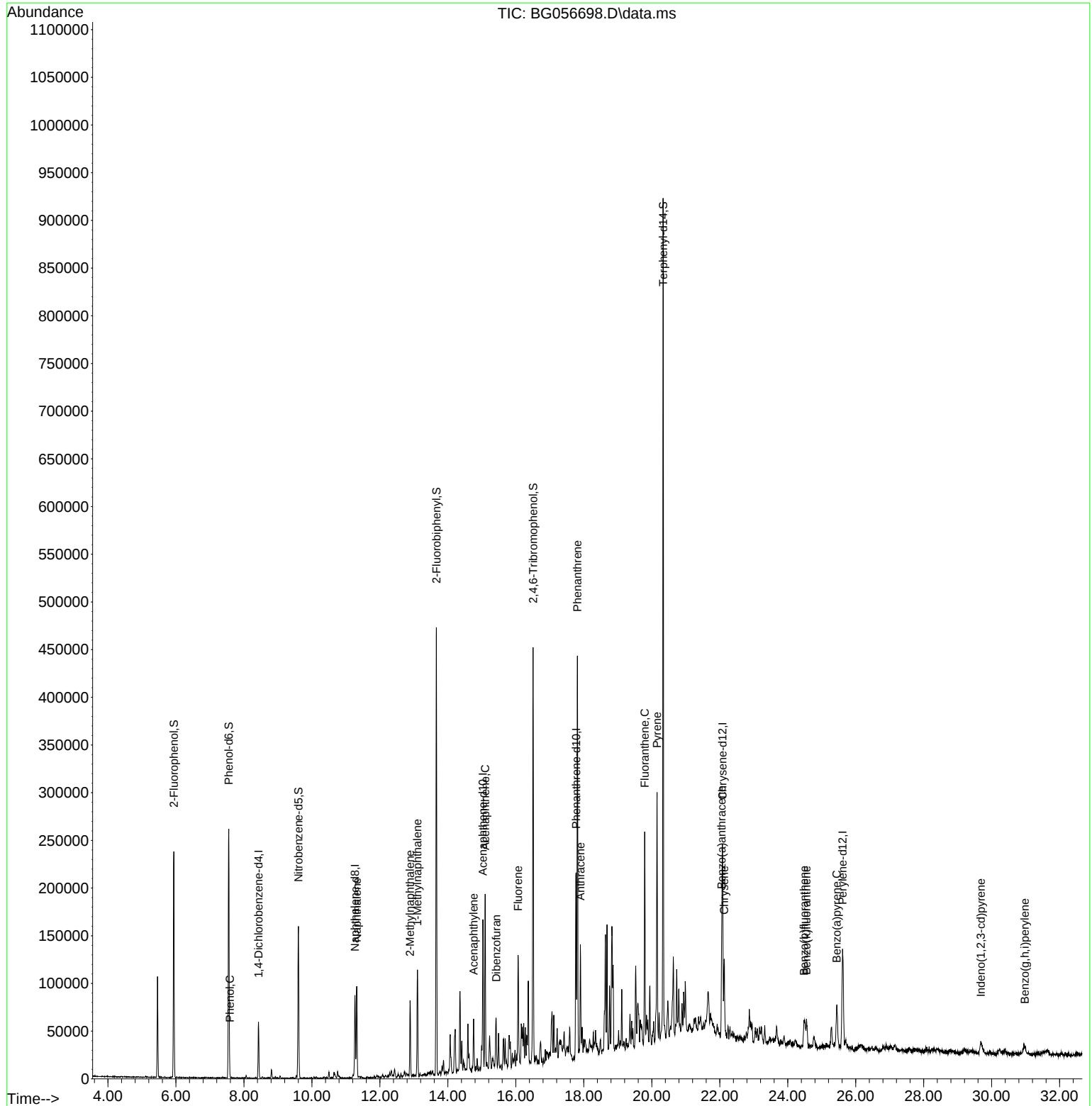
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG022223\
Data File : BG056698.D
Acq On : 22 Feb 2023 15:13
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ALS Vial : 7 Sample Multiplier: 1

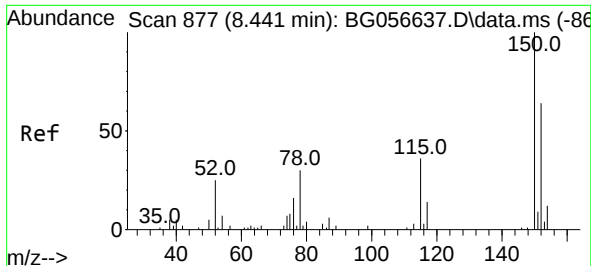
Instrument :
BNA_G
ClientSampleId :
VB-15-241

Quant Time: Feb 22 17:16:30 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG021523.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Feb 22 14:34:57 2023
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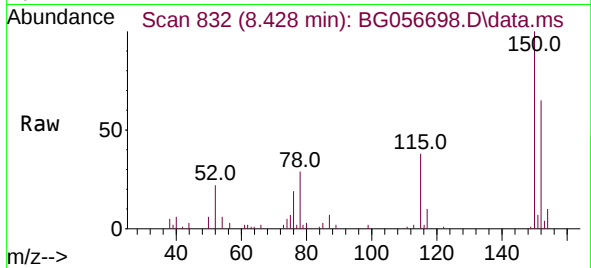
Reviewed By : Christian Giraldo 02/23/2023
Supervised By : Jagrut Upadhyay 02/23/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.428 min Scan# 84
Delta R.T. 0.001 min
Lab File: BG056698.D
Acq: 22 Feb 2023 15:13

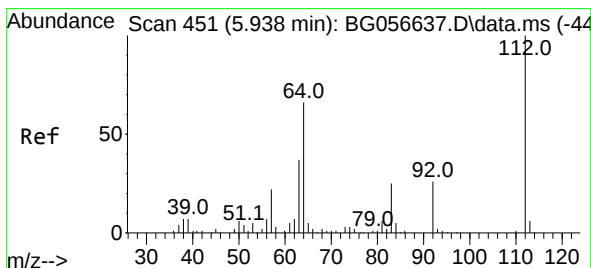
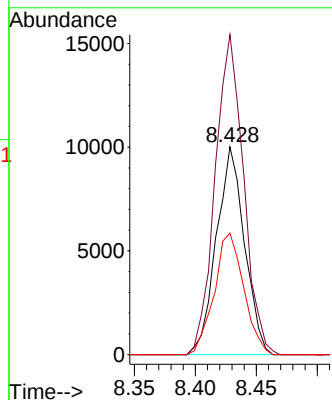
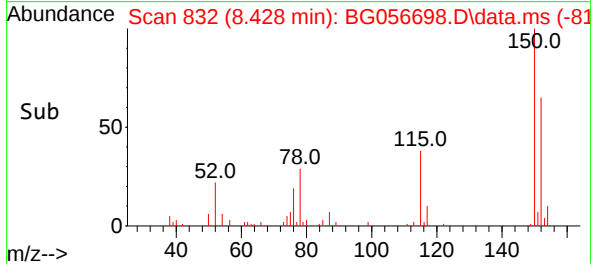
Instrument :
BNA_G
ClientSampleId :
VB-15-241



Tgt Ion:152 Resp: 16076
Ion Ratio Lower Upper
152 100
150 154.0 124.8 187.2
115 58.5 44.7 67.1

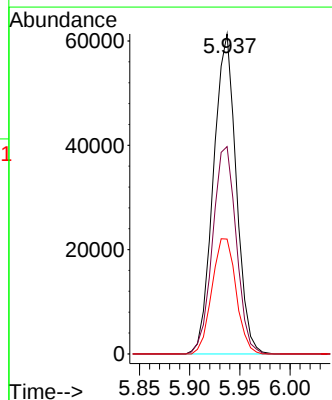
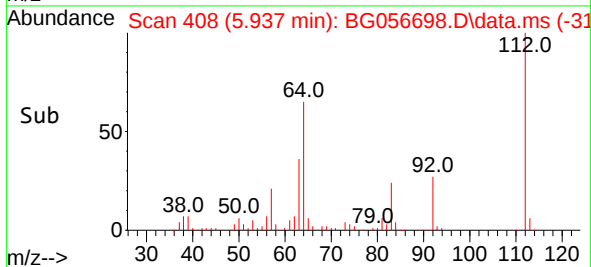
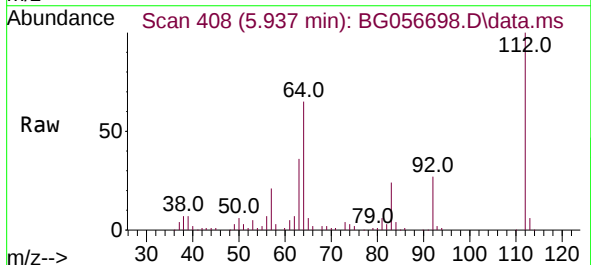
Manual Integrations
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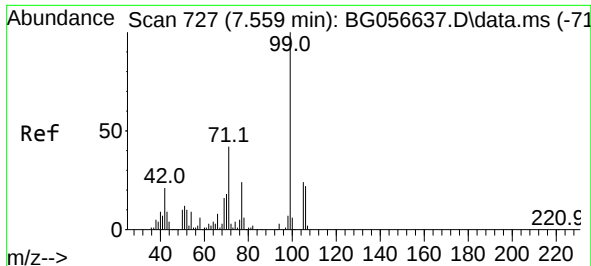
Reviewed By :Christian Giraldo 02/23/2023
Supervised By :Jagrut Upadhyay 02/23/2023



#5
2-Fluorophenol
Concen: 98.220 ng
RT: 5.937 min Scan# 408
Delta R.T. 0.002 min
Lab File: BG056698.D
Acq: 22 Feb 2023 15:13

Tgt Ion:112 Resp: 97045
Ion Ratio Lower Upper
112 100
64 64.8 52.6 78.8
63 35.9 29.8 44.6





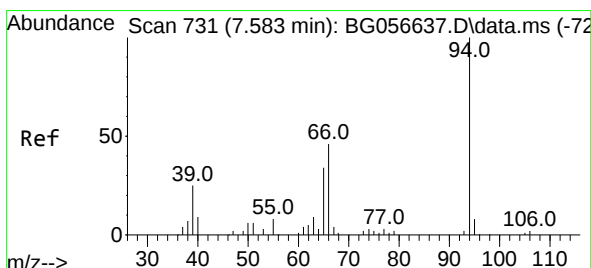
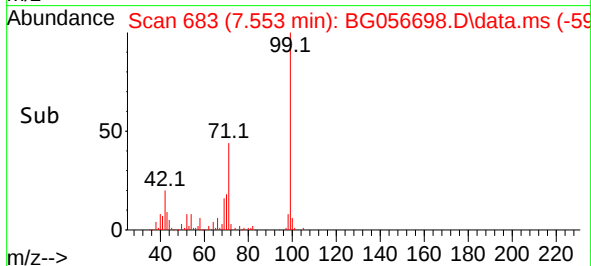
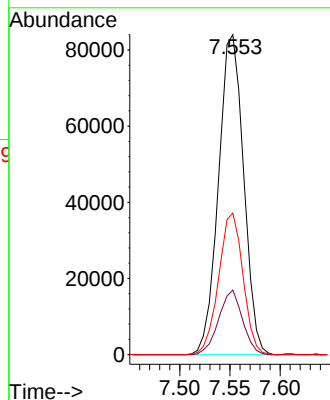
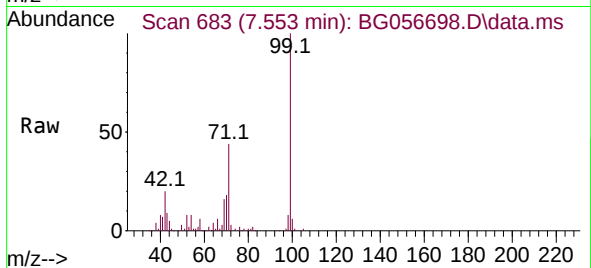
#7
Phenol-d6
Concen: 100.349 ng
RT: 7.553 min Scan# 681
Delta R.T. -0.004 min
Lab File: BG056698.D
Acq: 22 Feb 2023 15:13

Instrument :
BNA_G
ClientSampleId :
VB-15-241

Tgt Ion: 99 Resp: 146452
Ion Ratio Lower Upper
99 100
42 20.2 16.8 25.2
71 44.2 33.9 50.9

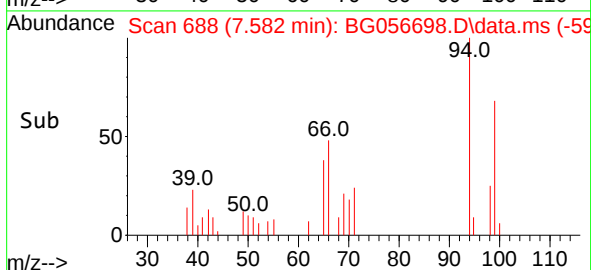
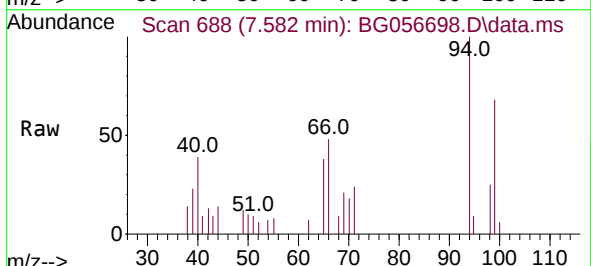
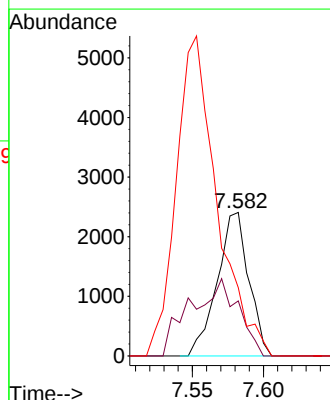
Manual Integrations
APPROVED

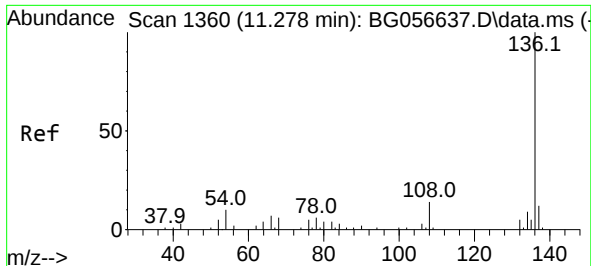
Reviewed By :Christian Giraldo 02/23/2023
Supervised By :Jagrut Upadhyay 02/23/2023



#10
Phenol
Concen: 2.485 ng
RT: 7.582 min Scan# 688
Delta R.T. 0.002 min
Lab File: BG056698.D
Acq: 22 Feb 2023 15:13

Tgt Ion: 94 Resp: 3710
Ion Ratio Lower Upper
94 100
65 38.3 14.2 54.2
66 47.6 27.9 67.9





#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.266 min Scan# 1360
Delta R.T. -0.004 min
Lab File: BG056698.D
Acq: 22 Feb 2023 15:13

Instrument :

BNA_G

ClientSampleId :

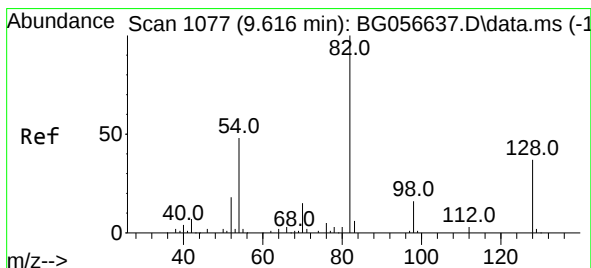
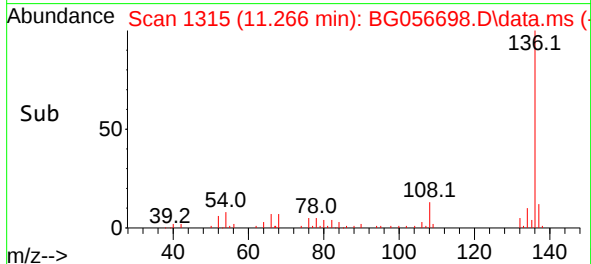
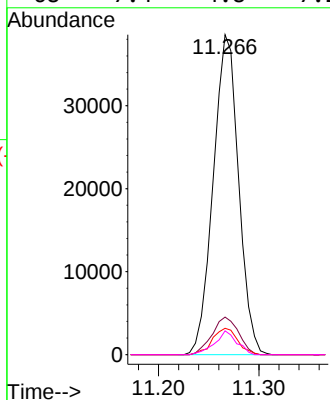
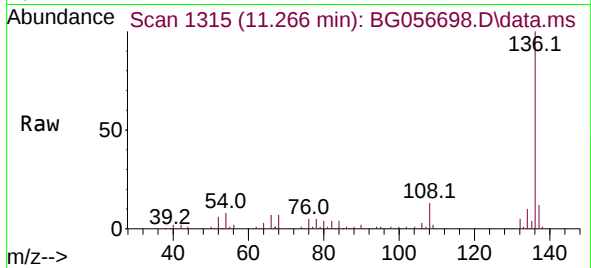
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Tgt Ion:136 Resp: 67760
Ion Ratio Lower Upper
136 100
137 11.7 9.7 14.5
54 8.2 7.7 11.5
68 7.4 4.8 7.2#

Manual Integrations

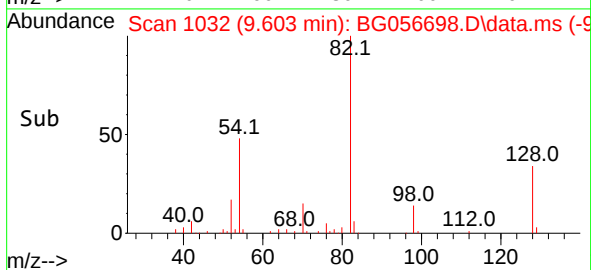
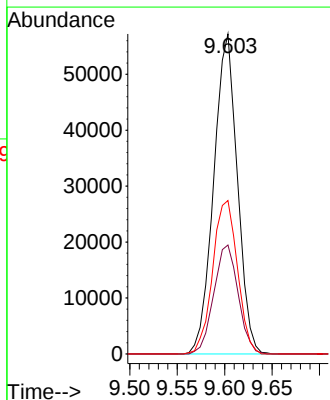
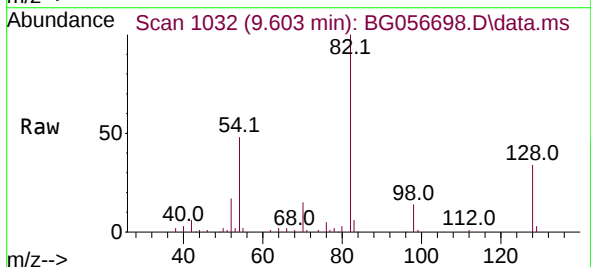
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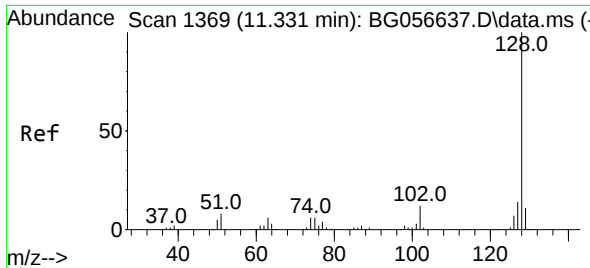
Reviewed By :Christian Giraldo 02/23/2023
Supervised By :Jagrut Upadhyay 02/23/2023



#23
Nitrobenzene-d5
Concen: 74.929 ng
RT: 9.603 min Scan# 1032
Delta R.T. 0.002 min
Lab File: BG056698.D
Acq: 22 Feb 2023 15:13

Tgt Ion: 82 Resp: 99170
Ion Ratio Lower Upper
82 100
128 34.0 29.4 44.2
54 48.0 37.8 56.6





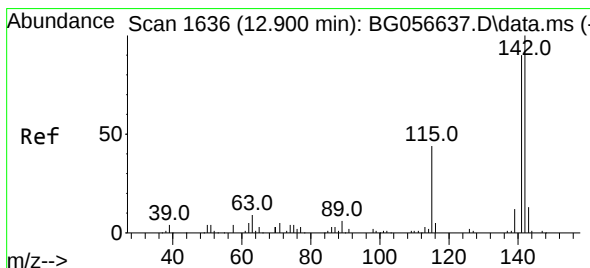
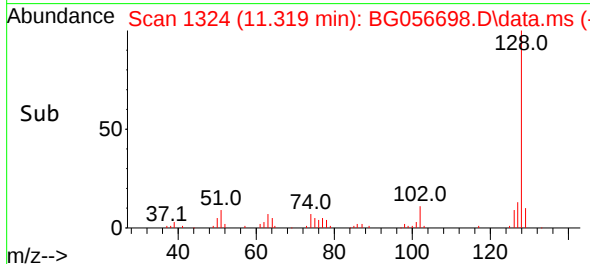
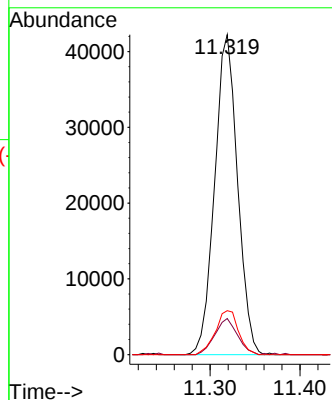
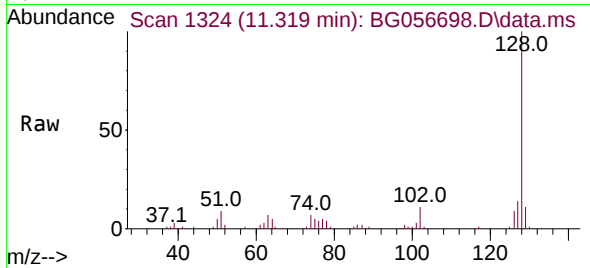
#31
Naphthalene
Concen: 19.999 ng
RT: 11.319 min Scan# 1369
Delta R.T. 0.002 min
Lab File: BG056698.D
Acq: 22 Feb 2023 15:13

Instrument :
BNA_G
ClientSampleId :
VB-15-241

Tgt Ion:128 Resp: 75112
Ion Ratio Lower Upper
128 100
129 11.3 8.7 13.1
127 13.7 10.9 16.3

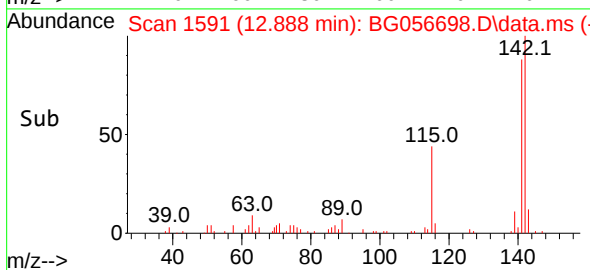
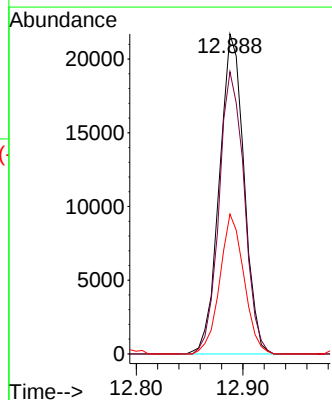
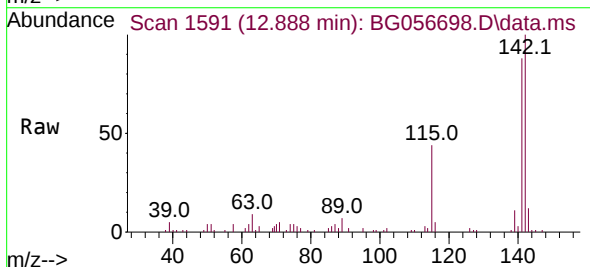
Manual Integrations
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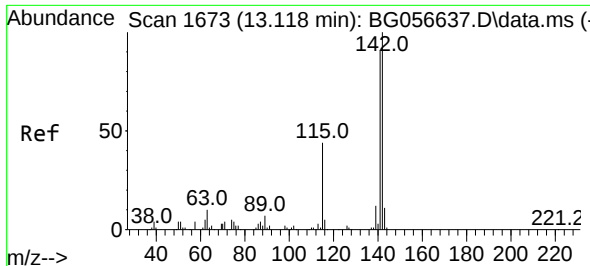
Reviewed By :Christian Giraldo 02/23/2023
Supervised By :Jagrut Upadhyay 02/23/2023



#37
2-Methylnaphthalene
Concen: 11.790 ng
RT: 12.888 min Scan# 1591
Delta R.T. -0.004 min
Lab File: BG056698.D
Acq: 22 Feb 2023 15:13

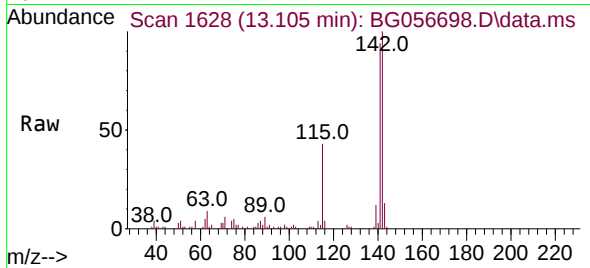
Tgt Ion:142 Resp: 34962
Ion Ratio Lower Upper
142 100
141 88.2 71.9 107.9
115 43.7 35.1 52.7





#38
1-Methylnaphthalene
Concen: 18.120 ng
RT: 13.105 min Scan# 110
Delta R.T. -0.004 min
Lab File: BG056698.D
Acq: 22 Feb 2023 15:13

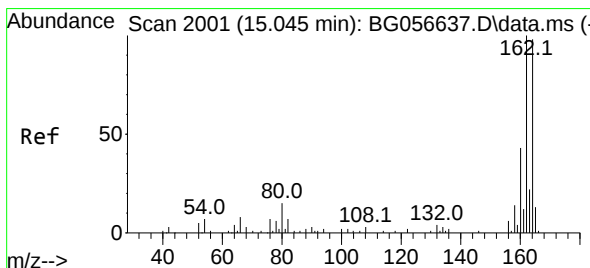
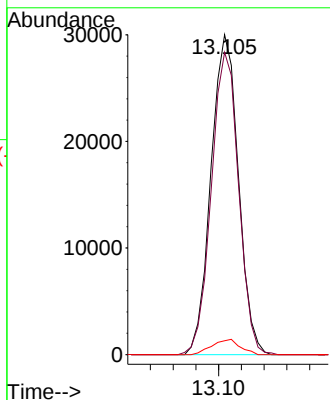
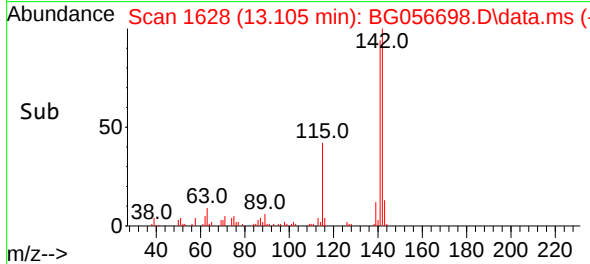
Instrument :
BNA_G
ClientSampleId :
VB-15-241



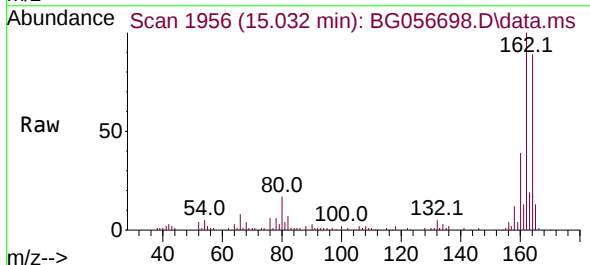
Tgt Ion:142 Resp: 50140
Ion Ratio Lower Upper
142 100
141 94.5 72.7 109.1
116 4.3 4.2 6.4

Manual Integrations
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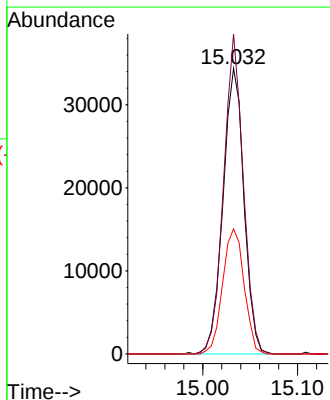
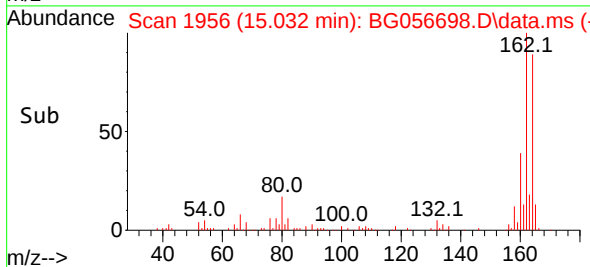
Reviewed By :Christian Giraldo 02/23/2023
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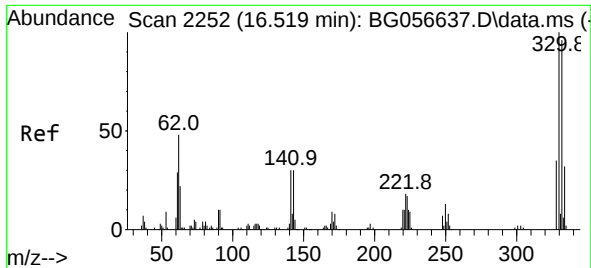


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 15.032 min Scan# 1956
Delta R.T. -0.004 min
Lab File: BG056698.D
Acq: 22 Feb 2023 15:13



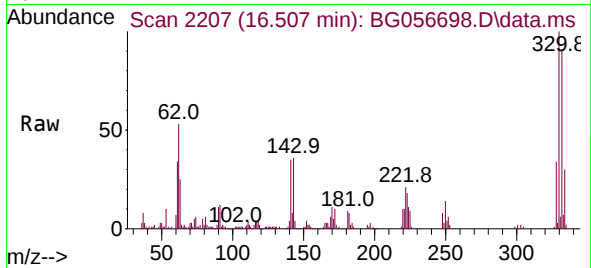
Tgt Ion:164 Resp: 52711
Ion Ratio Lower Upper
164 100
162 112.1 81.3 121.9
160 43.8 35.2 52.8





#42
2,4,6-Tribromophenol
Concen: 110.391 ng
RT: 16.507 min Scan# 21
Delta R.T. -0.004 min
Lab File: BG056698.D
Acq: 22 Feb 2023 15:13

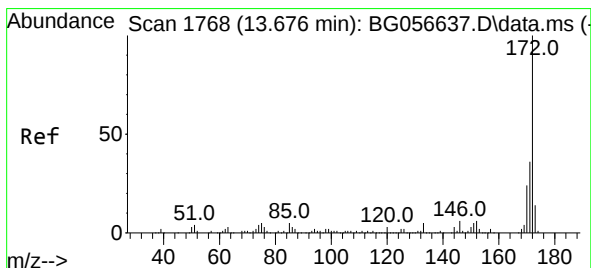
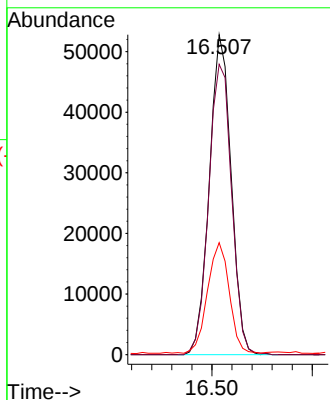
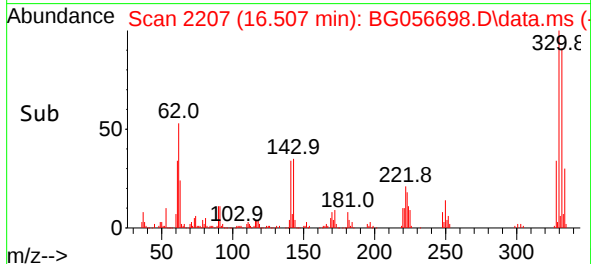
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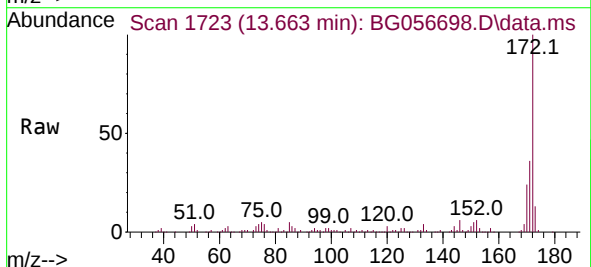
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Ion Ratio Lower Upper
330 100
332 95.4 75.7 113.5
141 34.3 24.6 37.0

Manual Integrations
APPROVED

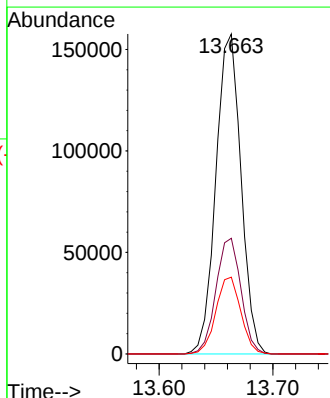
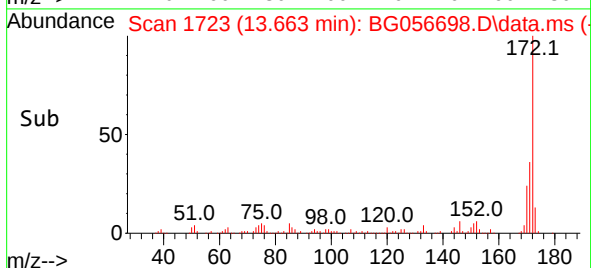
Reviewed By :Christian Giraldo 02/23/2023
Supervised By :Jagrut Upadhyay 02/23/2023

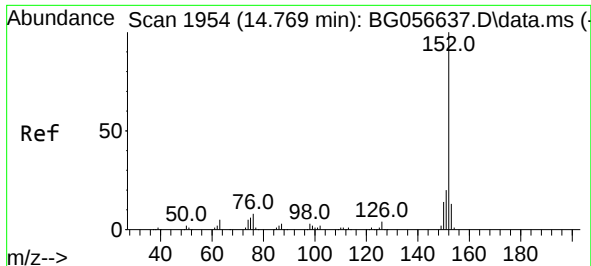


#45
2-Fluorobiphenyl
Concen: 61.357 ng
RT: 13.663 min Scan# 1723
Delta R.T. -0.004 min
Lab File: BG056698.D
Acq: 22 Feb 2023 15:13



Tgt Ion:172 Resp: 241525
Ion Ratio Lower Upper
172 100
171 36.1 28.6 43.0
170 24.0 19.4 29.0





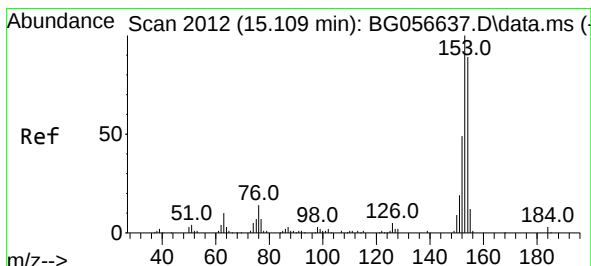
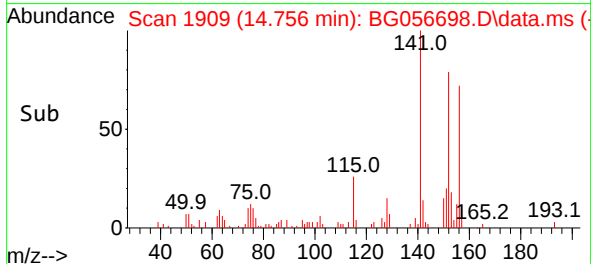
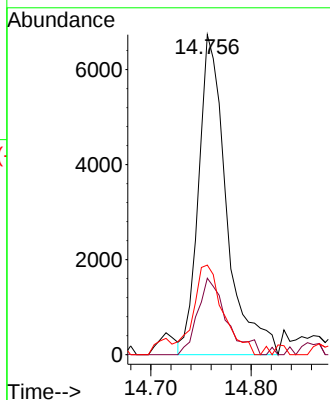
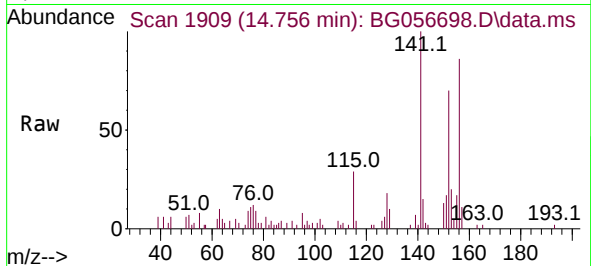
#49
Acenaphthylene
Concen: 2.533 ng
RT: 14.756 min Scan# 1909
Delta R.T. -0.010 min
Lab File: BG056698.D
Acq: 22 Feb 2023 15:13

Instrument :
BNA_G
ClientSampleId :
VB-15-241

Tgt Ion:152 Resp: 13004
Ion Ratio Lower Upper
152 100
151 23.9 15.6 23.4
153 28.0 10.3 15.5

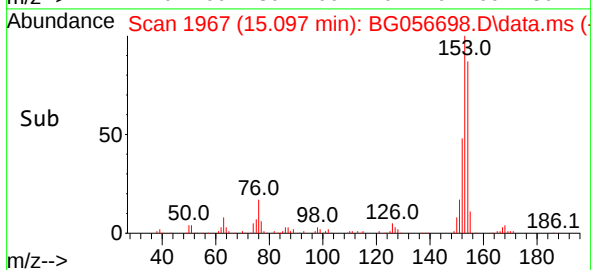
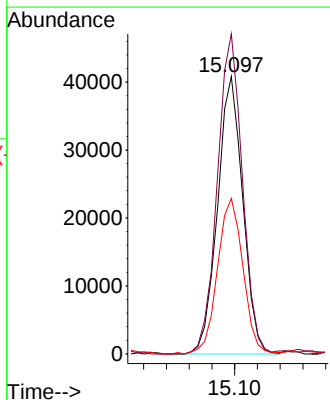
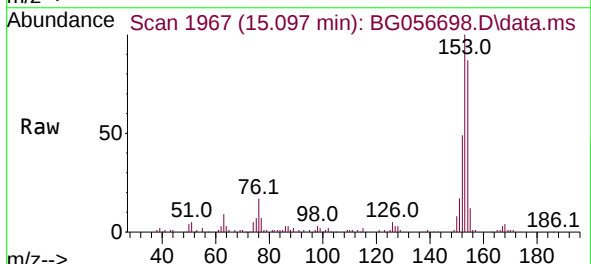
Manual Integrations
APPROVED

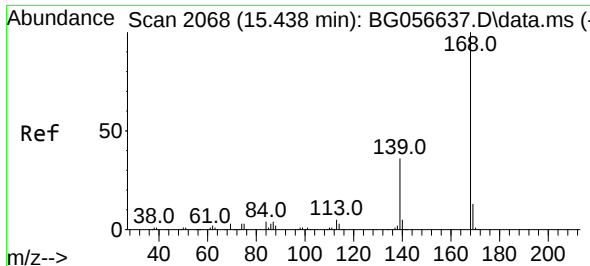
Reviewed By :Christian Giraldo 02/23/2023
Supervised By :Jagrut Upadhyay 02/23/2023



#52
Acenaphthene
Concen: 19.831 ng
RT: 15.097 min Scan# 1967
Delta R.T. -0.004 min
Lab File: BG056698.D
Acq: 22 Feb 2023 15:13

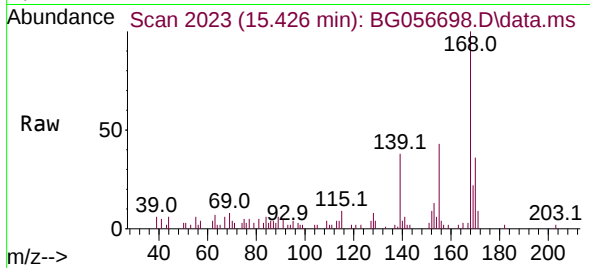
Tgt Ion:154 Resp: 62805
Ion Ratio Lower Upper
154 100
153 115.4 89.5 134.3
152 56.0 43.7 65.5





#55
Dibenzofuran
Concen: 2.985 ng
RT: 15.426 min Scan# 2068
Delta R.T. -0.004 min
Lab File: BG056698.D
Acq: 22 Feb 2023 15:13

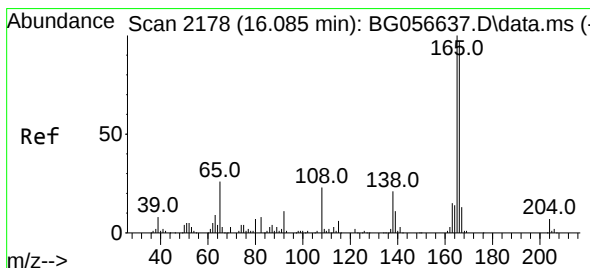
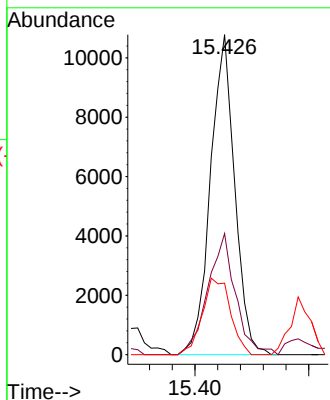
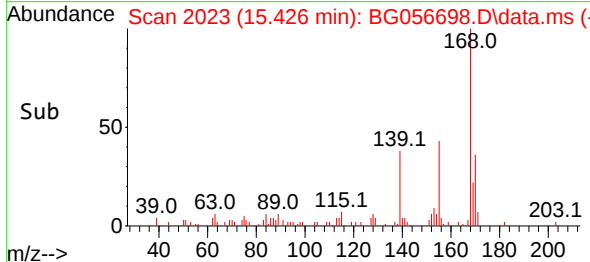
Instrument :
BNA_G
ClientSampleId :
VB-15-241



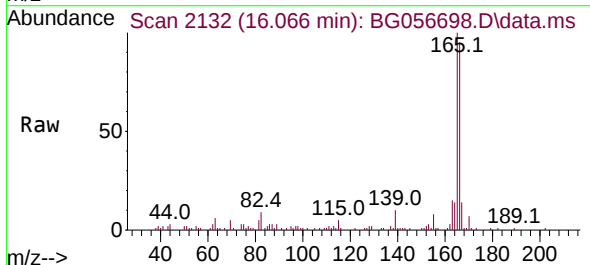
Tgt Ion:168 Resp: 15970
Ion Ratio Lower Upper
168 100
139 37.8 29.0 43.6
169 22.3 10.7 16.1

Manual Integrations
APPROVED

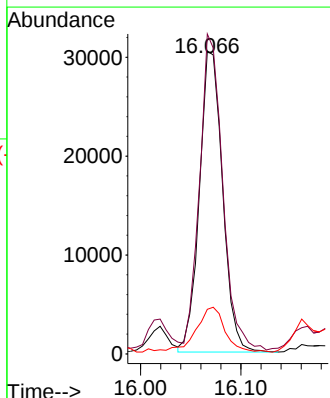
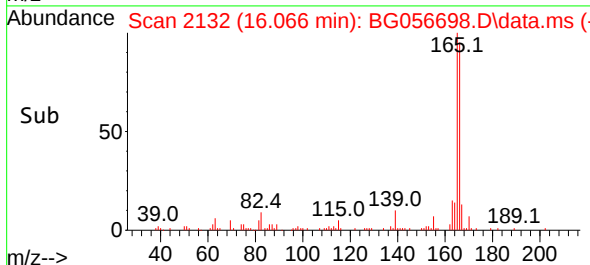
Reviewed By :Christian Giraldo 02/23/2023
Supervised By :Jagrut Upadhyay 02/23/2023

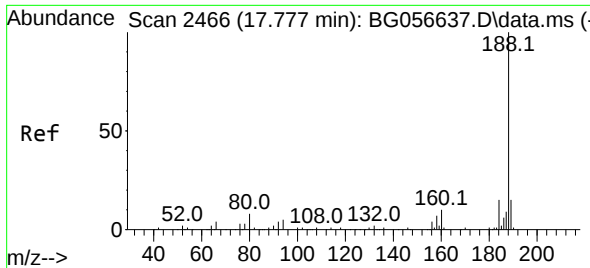


#58
Fluorene
Concen: 11.529 ng
RT: 16.066 min Scan# 2132
Delta R.T. -0.010 min
Lab File: BG056698.D
Acq: 22 Feb 2023 15:13



Tgt Ion:166 Resp: 48772
Ion Ratio Lower Upper
166 100
165 105.8 82.9 124.3
167 14.7 11.1 16.7





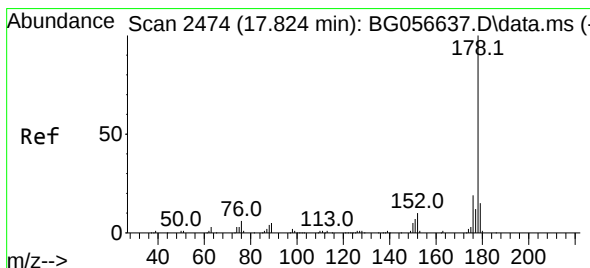
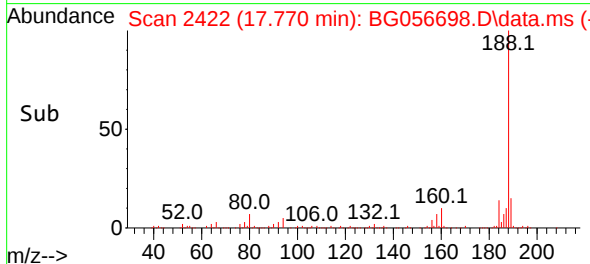
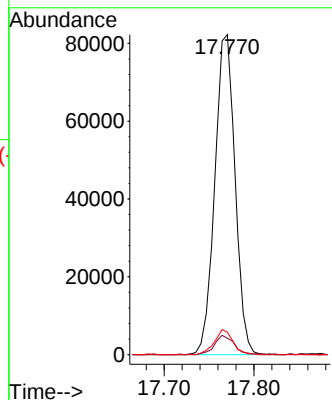
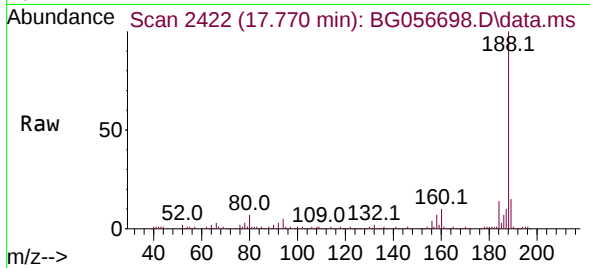
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.770 min Scan# 2466
Delta R.T. -0.004 min
Lab File: BG056698.D
Acq: 22 Feb 2023 15:13

Instrument :
BNA_G
ClientSampleId :
VB-15-241

Tgt Ion:188 Resp: 128779
Ion Ratio Lower Upper
188 100
94 5.1 4.0 6.0
80 7.0 6.3 9.5

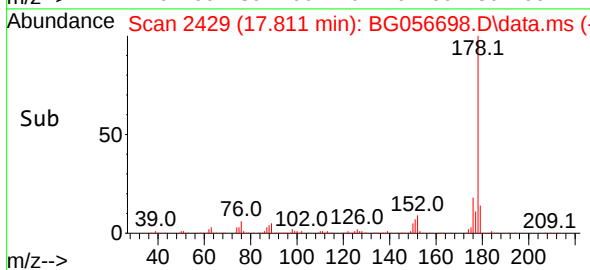
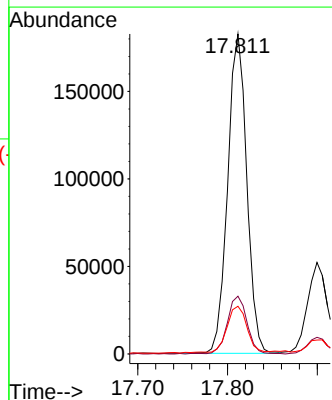
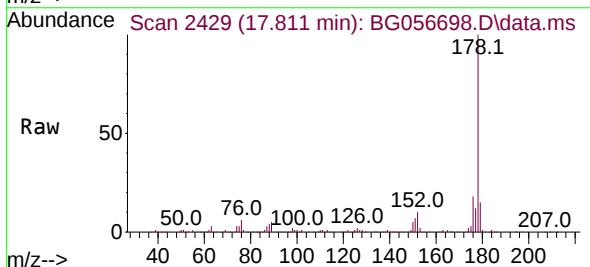
Manual Integrations
APPROVED

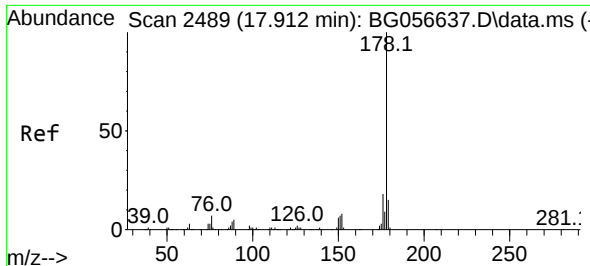
Reviewed By :Christian Giraldo 02/23/2023
Supervised By :Jagrut Upadhyay 02/23/2023



#71
Phenanthrene
Concen: 38.587 ng
RT: 17.811 min Scan# 2429
Delta R.T. -0.004 min
Lab File: BG056698.D
Acq: 22 Feb 2023 15:13

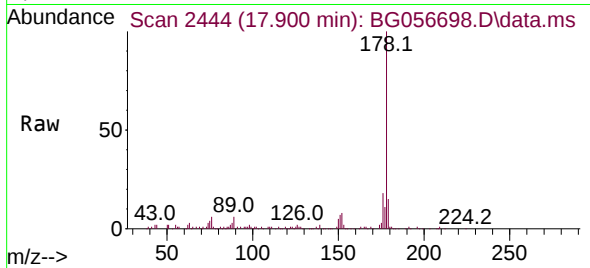
Tgt Ion:178 Resp: 270353
Ion Ratio Lower Upper
178 100
176 18.0 15.4 23.2
179 14.9 12.2 18.4





#72
 Anthracene
 Concen: 10.704 ng
 RT: 17.900 min Scan# 2489
 Delta R.T. -0.004 min
 Lab File: BG056698.D
 Acq: 22 Feb 2023 15:13

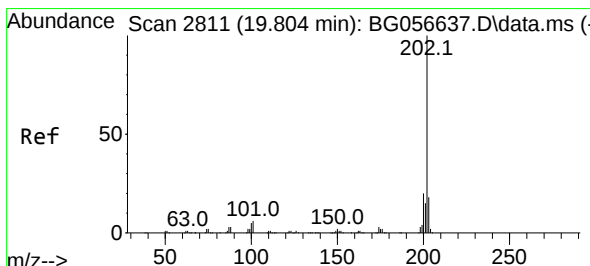
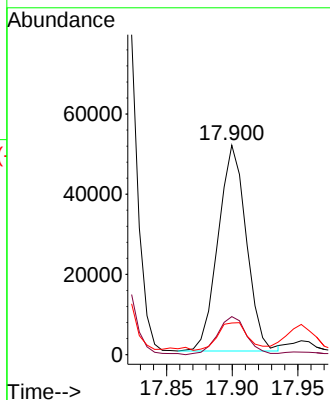
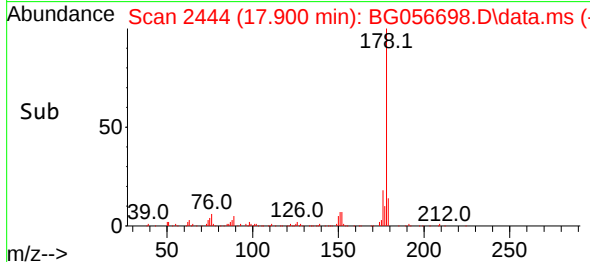
Instrument :
 BNA_G
 ClientSampleId :
 VB-15-241



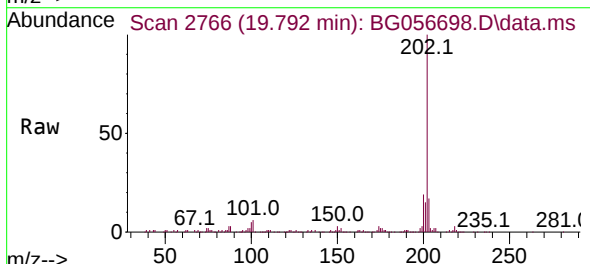
Tgt Ion:178 Resp: 76741
 Ion Ratio Lower Upper
 178 100
 176 18.2 14.3 21.5
 179 15.1 12.2 18.4

Manual Integrations
 APPROVED

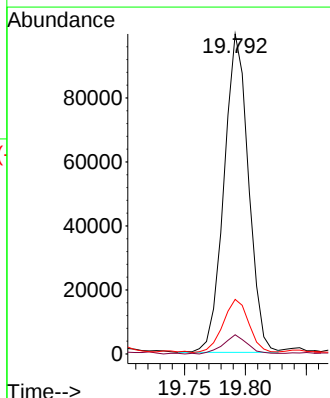
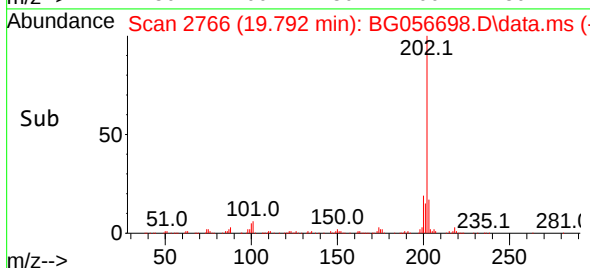
Reviewed By :Christian Giraldo 02/23/2023
 Supervised By :Jagrut Upadhyay 02/23/2023

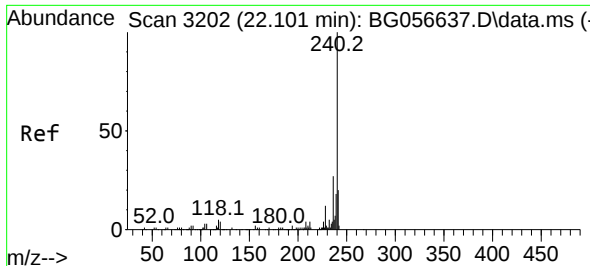


#75
 Fluoranthene
 Concen: 15.037 ng
 RT: 19.792 min Scan# 2766
 Delta R.T. -0.004 min
 Lab File: BG056698.D
 Acq: 22 Feb 2023 15:13



Tgt Ion:202 Resp: 139013
 Ion Ratio Lower Upper
 202 100
 101 6.0 0.0 25.8
 203 17.0 0.0 37.6





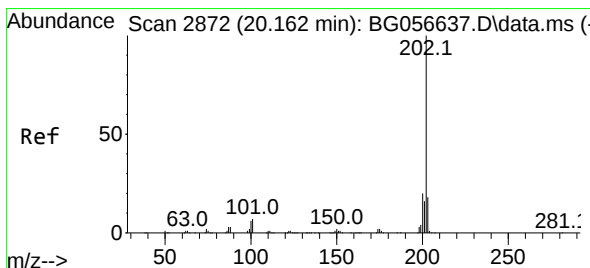
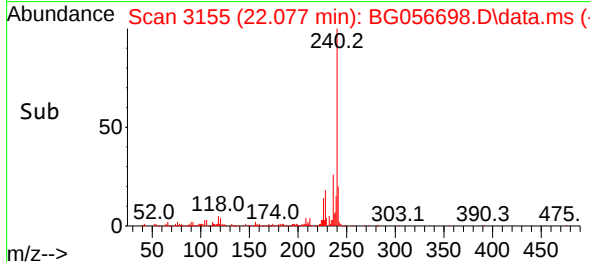
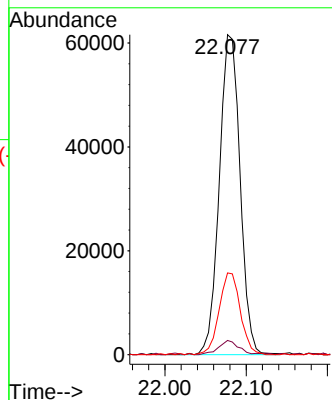
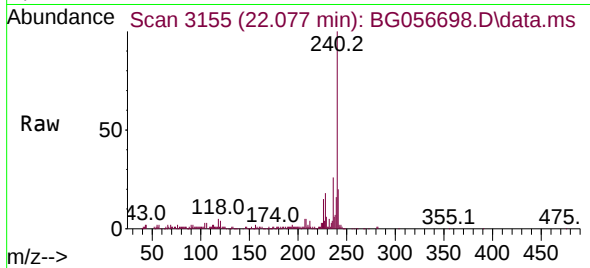
#76
Chrysene-d12
Concen: 20.000 ng
RT: 22.077 min Scan# 3155
Delta R.T. -0.010 min
Lab File: BG056698.D
Acq: 22 Feb 2023 15:13

Instrument :
BNA_G
ClientSampleId :
VB-15-241

Tgt Ion:240 Resp: 109314
Ion Ratio Lower Upper
240 100
120 4.4 3.5 5.3
236 25.5 21.5 32.3

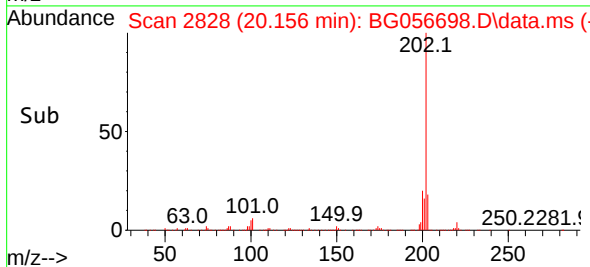
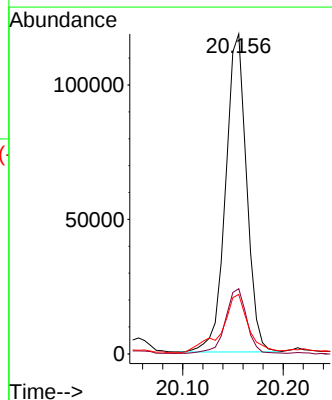
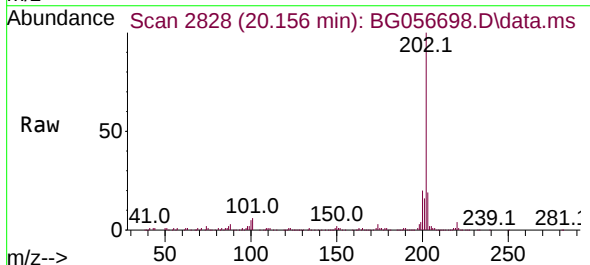
Manual Integrations
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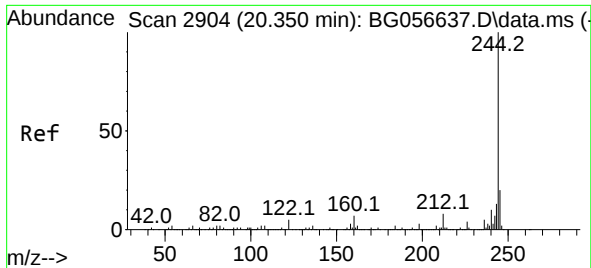
Reviewed By :Christian Giraldo 02/23/2023
Supervised By :Jagrut Upadhyay 02/23/2023



#78
Pyrene
Concen: 20.868 ng
RT: 20.156 min Scan# 2828
Delta R.T. -0.004 min
Lab File: BG056698.D
Acq: 22 Feb 2023 15:13

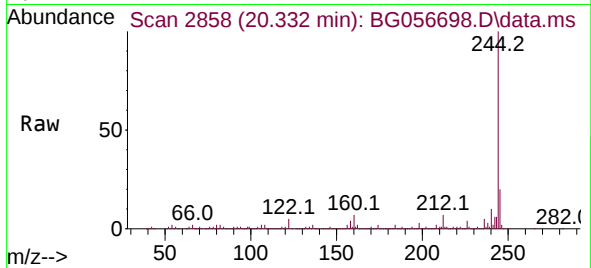
Tgt Ion:202 Resp: 172277
Ion Ratio Lower Upper
202 100
200 20.4 15.8 23.8
203 18.6 14.2 21.4





#79
 Terphenyl-d14
 Concen: 67.616 ng
 RT: 20.332 min Scan# 2858
 Delta R.T. -0.004 min
 Lab File: BG056698.D
 Acq: 22 Feb 2023 15:13

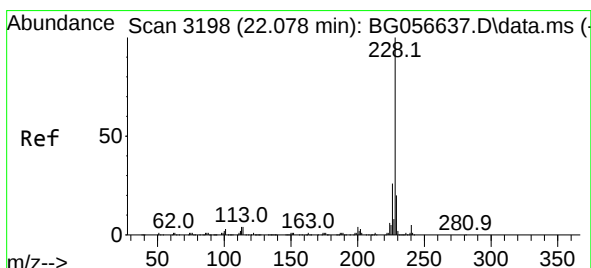
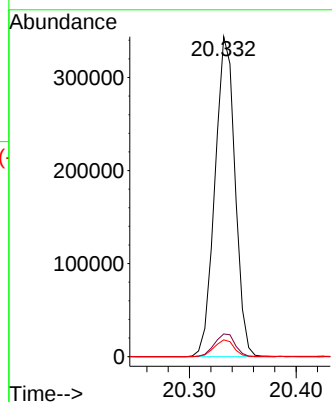
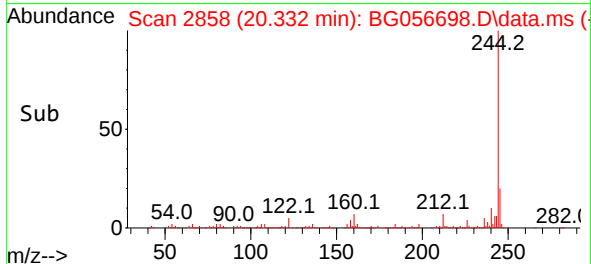
Instrument :
 BNA_G
 ClientSampleId :
 VB-15-241



Tgt Ion:244 Resp: 451764
 Ion Ratio Lower Upper
 244 100
 212 7.1 6.0 9.0
 122 5.2 3.8 5.8

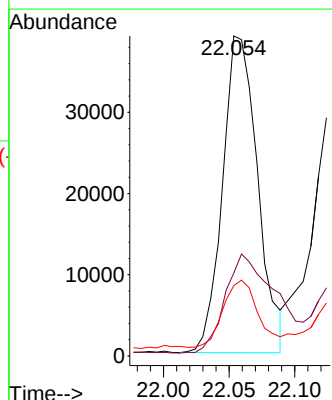
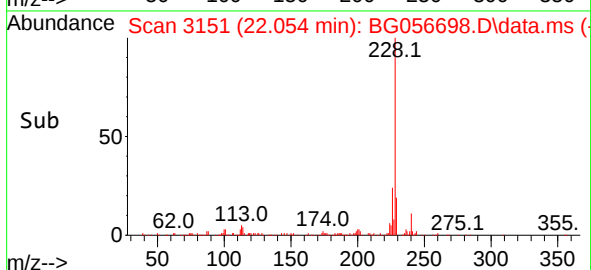
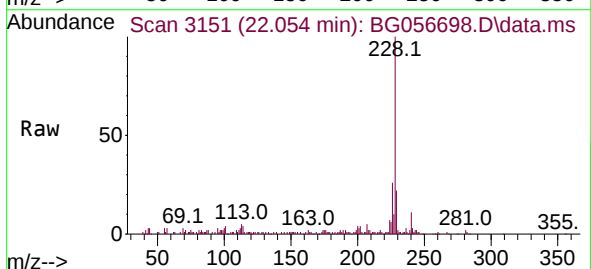
Manual Integrations
 APPROVED

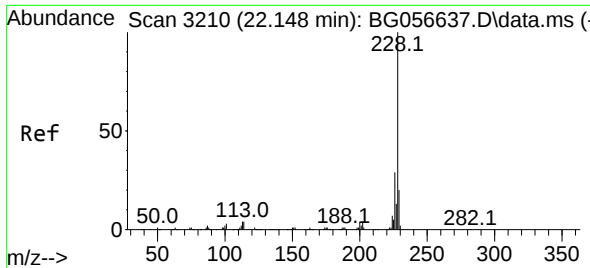
Reviewed By :Christian Giraldo 02/23/2023
 Supervised By :Jagrut Upadhyay 02/23/2023



#81
 Benzo(a)anthracene
 Concen: 8.933 ng
 RT: 22.054 min Scan# 3151
 Delta R.T. -0.010 min
 Lab File: BG056698.D
 Acq: 22 Feb 2023 15:13

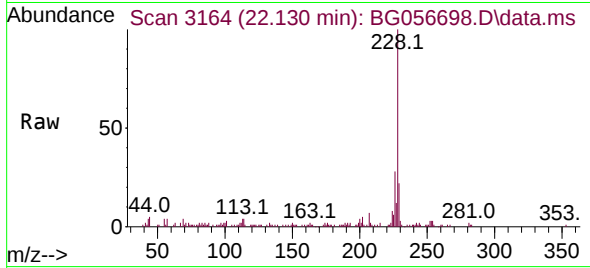
Tgt Ion:228 Resp: 72616
 Ion Ratio Lower Upper
 228 100
 226 25.9 20.4 30.6
 229 22.0 16.0 24.0





#83
Chrysene
Concen: 8.337 ng
RT: 22.130 min Scan# 3164
Delta R.T. -0.010 min
Lab File: BG056698.D
Acq: 22 Feb 2023 15:13

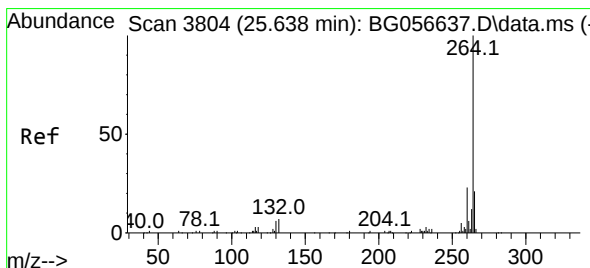
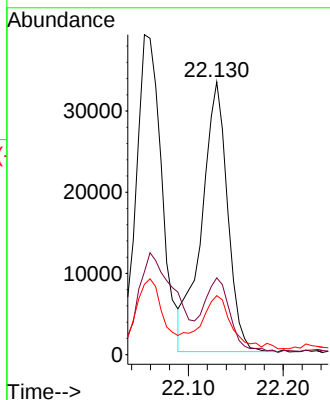
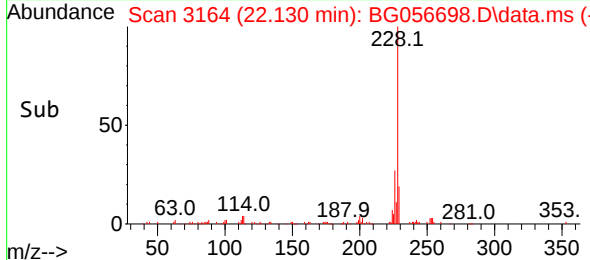
Instrument :
BNA_G
ClientSampleId :
VB-15-241



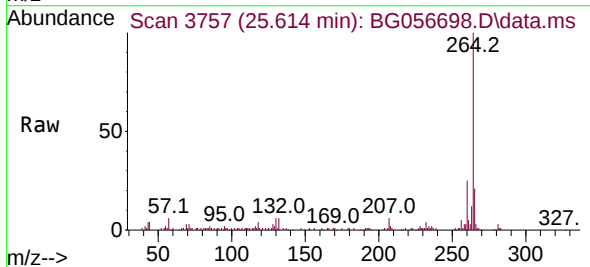
Tgt Ion:228 Resp: 63356
Ion Ratio Lower Upper
228 100
226 28.1 23.0 34.6
229 21.6 15.8 23.8

Manual Integrations
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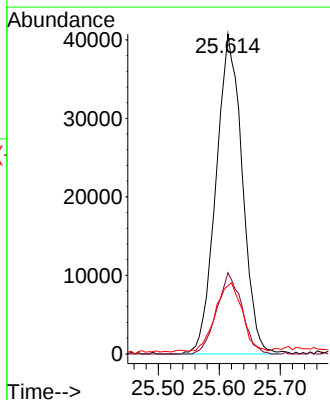
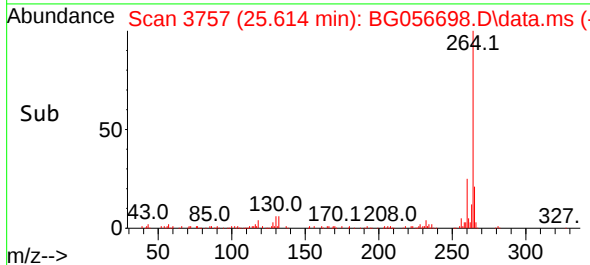
Reviewed By :Christian Giraldo 02/23/2023
Supervised By :Jagrut Upadhyay 02/23/2023

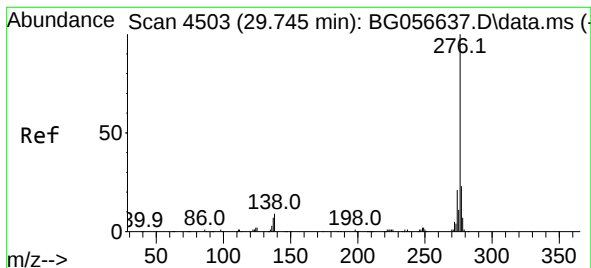


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.614 min Scan# 3757
Delta R.T. -0.010 min
Lab File: BG056698.D
Acq: 22 Feb 2023 15:13



Tgt Ion:264 Resp: 121964
Ion Ratio Lower Upper
264 100
260 25.4 18.6 27.8
265 21.3 17.0 25.4





#87

Indeno(1,2,3-cd)pyrene

Concen: 2.380 ng

RT: 29.680 min Scan# 4449

Delta R.T. -0.045 min

Lab File: BG056698.D

Acq: 22 Feb 2023 15:13

Instrument :

BNA_G

ClientSampleId :

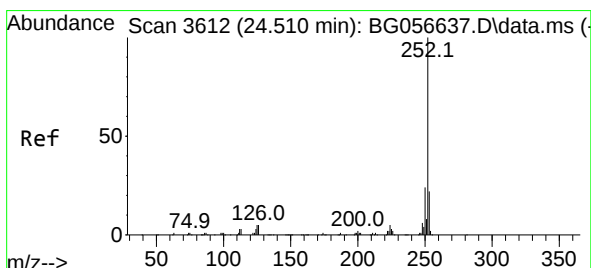
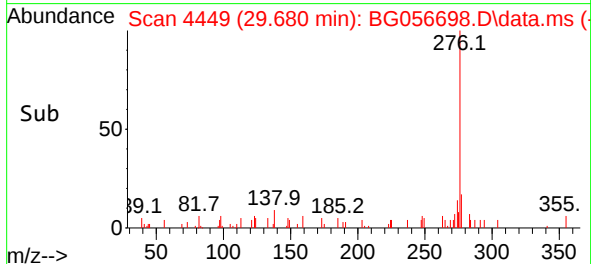
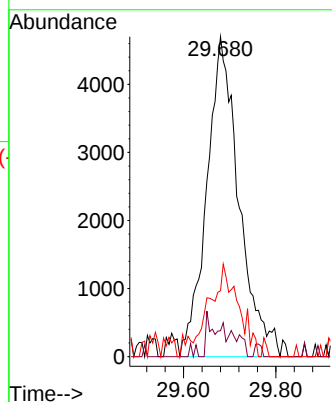
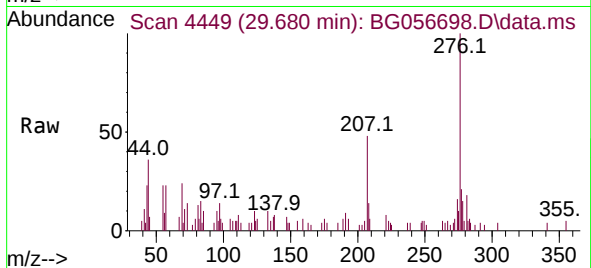
VB-15-241

Tgt Ion:276 Resp: 22736
 Ion Ratio Lower Upper
 276 100
 138 0.0 3.8 5.8
 277 17.6 20.3 30.5

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 02/23/2023
 Supervised By :Jagrut Upadhyay 02/23/2023



#88

Benzo(b)fluoranthene

Concen: 6.052 ng m

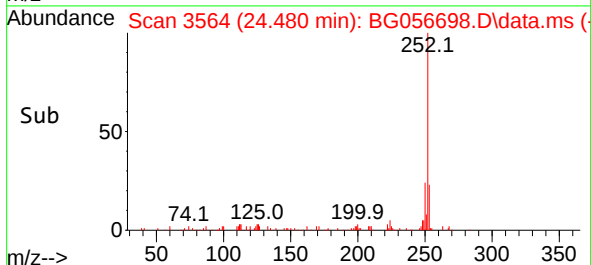
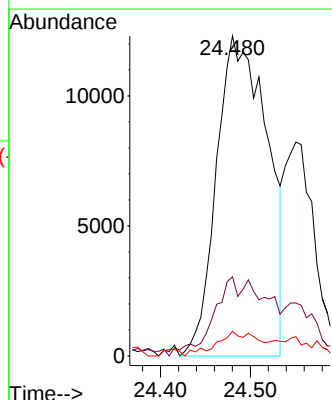
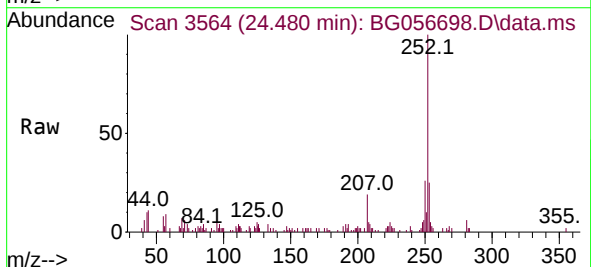
RT: 24.480 min Scan# 3564

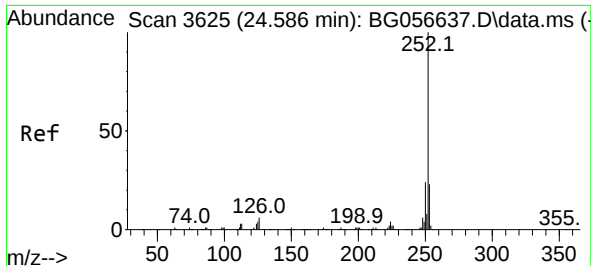
Delta R.T. -0.016 min

Lab File: BG056698.D

Acq: 22 Feb 2023 15:13

Tgt Ion:252 Resp: 48224
 Ion Ratio Lower Upper
 252 100
 253 24.7 17.3 25.9
 125 4.9 3.7 5.5





#89

Benzo(k)fluoranthene

Concen: 2.355 ng m

RT: 24.551 min Scan# 3

Delta R.T. -0.022 min

Lab File: BG056698.D

Acq: 22 Feb 2023 15:13

Instrument :

BNA_G

ClientSampleId :

VB-15-241

Tgt Ion:252 Resp: 18450

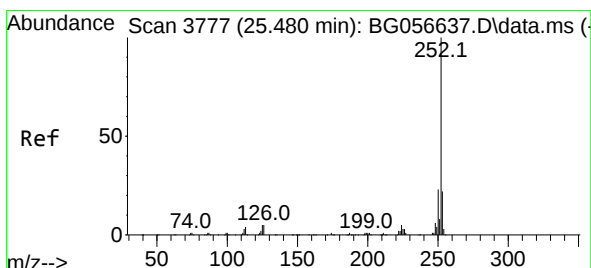
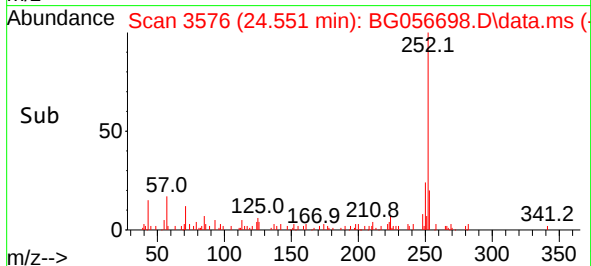
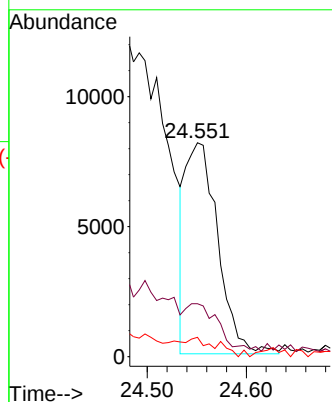
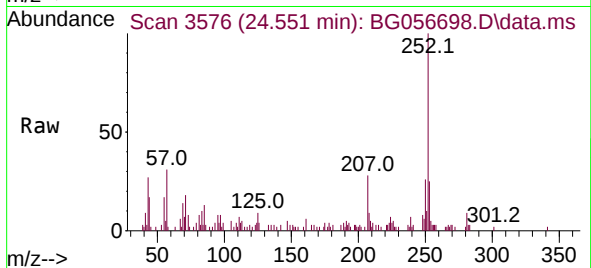
Ion	Ratio	Lower	Upper
252	100		
253	24.7	18.5	27.7
125	9.1	3.4	5.0

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 02/23/2023

Supervised By :Jagrut Upadhyay 02/23/2023



#90

Benzo(a)pyrene

Concen: 6.856 ng

RT: 25.438 min Scan# 3727

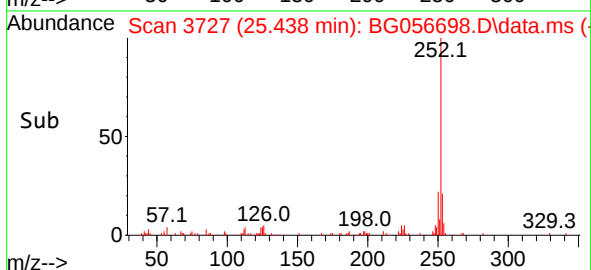
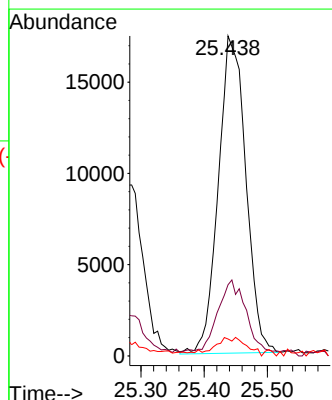
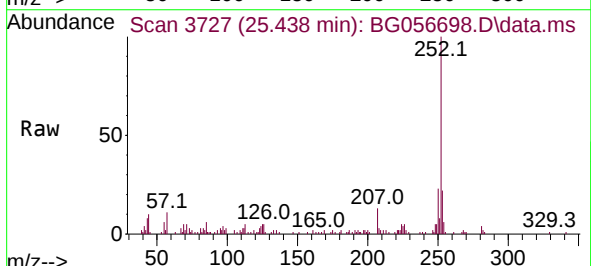
Delta R.T. -0.022 min

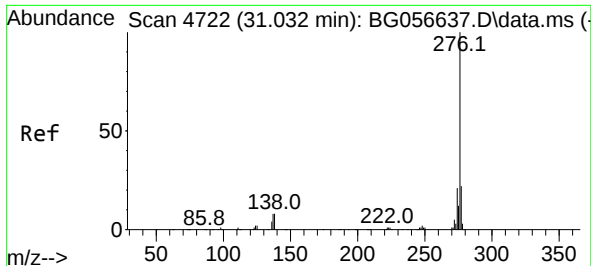
Lab File: BG056698.D

Acq: 22 Feb 2023 15:13

Tgt Ion:252 Resp: 52511

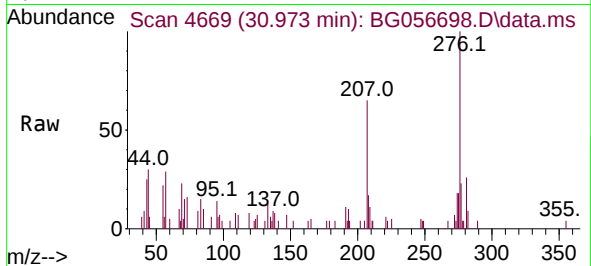
Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.9	26.9
125	5.3	4.0	6.0





#92
 Benzo(g,h,i)perylene
 Concen: 2.873 ng m
 RT: 30.973 min Scan# 4669
 Delta R.T. -0.033 min
 Lab File: BG056698.D
 Acq: 22 Feb 2023 15:13

Instrument :
 BNA_G
 ClientSampleId :
 VB-15-241



Tgt Ion: 276 Resp: 22208

Ion	Ratio	Lower	Upper
276	100		
277	23.1	17.5	26.3
138	7.6	6.4	9.6

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 02/23/2023
 Supervised By : Jagrut Upadhyay 02/23/2023

