

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG032024\
 Data File : BG060696.D
 Acq On : 20 Mar 2024 17:58
 Operator : MA/JU
 Sample : P1801-01 5X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 OR-03-031924

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 03/21/2024
 Supervised By :Sohil Jodhani 03/21/2024

Quant Time: Mar 20 19:01:24 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG031324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 18 14:26:31 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.293	152	102700	20.000	ng	0.00
21) Naphthalene-d8	11.143	136	415958	20.000	ng	0.00
39) Acenaphthene-d10	14.927	164	263128	20.000	ng	0.00
64) Phenanthrene-d10	17.677	188	557359	20.000	ng	0.00
76) Chrysene-d12	21.995	240	532454	20.000	ng	0.00
86) Perylene-d12	25.544	264	628796	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.790	112	90084	13.789	ng	0.01
7) Phenol-d6	7.412	99	126499	13.348	ng	0.00
23) Nitrobenzene-d5	9.492	82	81969	10.256	ng	0.00
42) 2,4,6-Tribromophenol	16.407	330	51031	16.736	ng	0.00
45) 2-Fluorobiphenyl	13.546	172	185539	9.534	ng	0.00
79) Terphenyl-d14	20.250	244	292425	9.927	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	11.190	128	94685	4.075	ng	96
37) 2-Methylnaphthalene	12.771	142	105641	6.583	ng	97
38) 1-Methylnaphthalene	12.988	142	85115	5.651	ng	99
52) Acenaphthene	14.991	154	191756	13.050	ng	96
55) Dibenzofuran	15.320	168	172992	7.271	ng	98
58) Fluorene	15.967	166	269679	14.167	ng	98
71) Phenanthrene	17.724	178	2187600	72.863	ng	99
72) Anthracene	17.812	178	589658	19.424	ng	97
73) Carbazole	18.082	167	282150	10.689	ng	97
75) Fluoranthene	19.715	202	2506695	75.479	ng	99
78) Pyrene	20.080	202	2147628	57.797	ng	98
81) Benzo(a)anthracene	21.971	228	1014044	27.660	ng	98
83) Chrysene	22.048	228	891077m	25.032	ng	
87) Indeno(1,2,3-cd)pyrene	29.645	276	325467m	7.588	ng	
88) Benzo(b)fluoranthene	24.392	252	910064	26.308	ng	# 92
89) Benzo(k)fluoranthene	24.463	252	465758m	12.816	ng	
90) Benzo(a)pyrene	25.368	252	701990	20.699	ng	# 91
91) Dibenzo(a,h)anthracene	29.715	278	77296m	2.123	ng	
92) Benzo(g,h,i)perylene	30.955	276	282573m	8.016	ng	

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

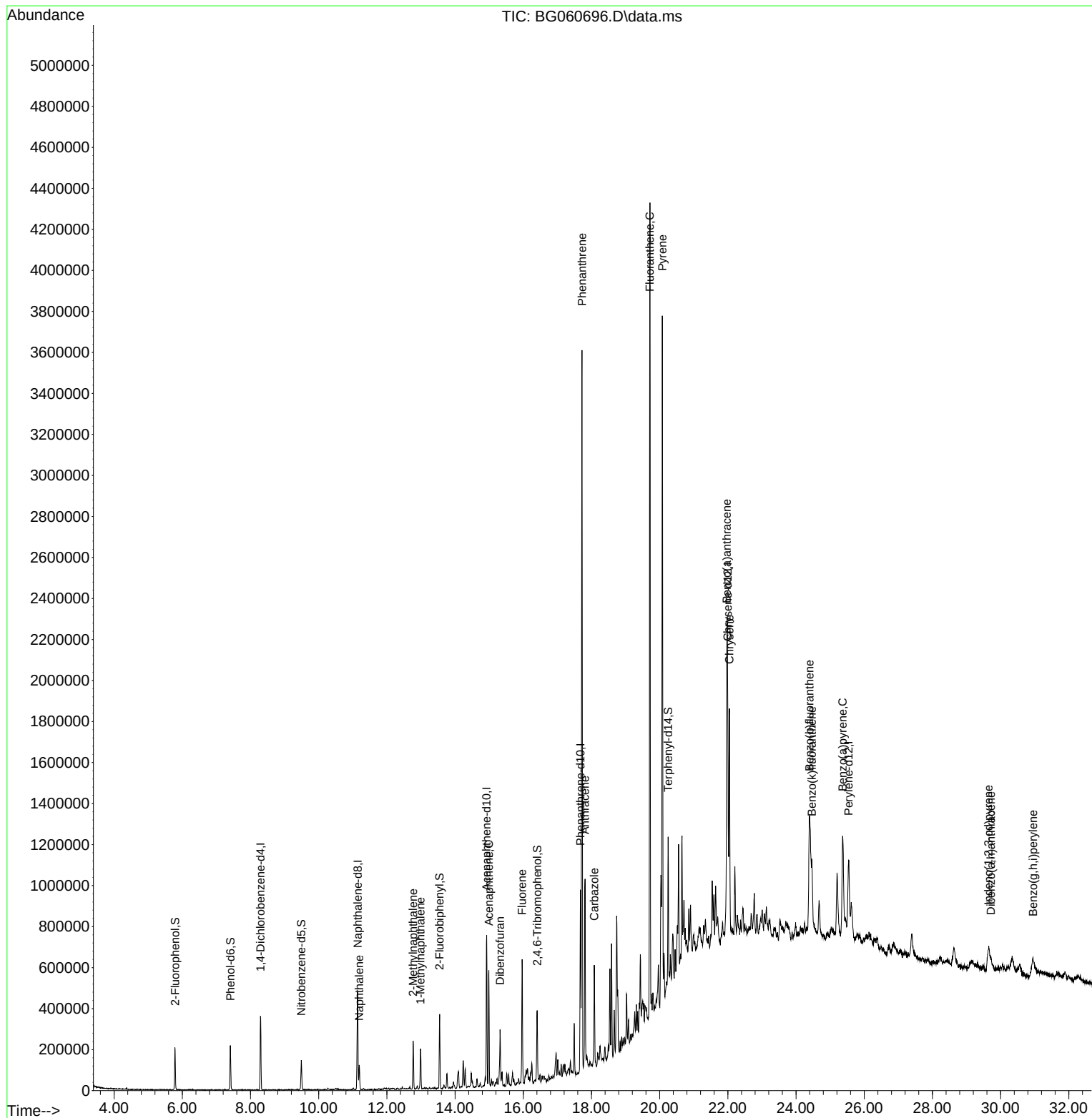
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG032024\
Data File : BG060696.D
Acq On : 20 Mar 2024 17:58
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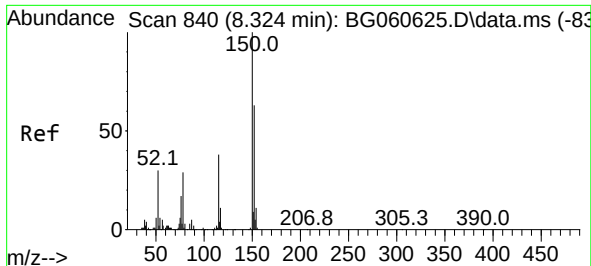
Instrument :
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Quant Time: Mar 20 19:01:24 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG031324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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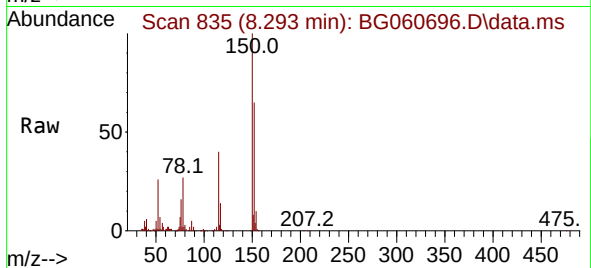
Reviewed By :Jagrut Upadhyay 03/21/2024
Supervised By :Sohil Jodhani 03/21/2024





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.293 min Scan# 81
Delta R.T. 0.005 min
Lab File: BG060696.D
Acq: 20 Mar 2024 17:58

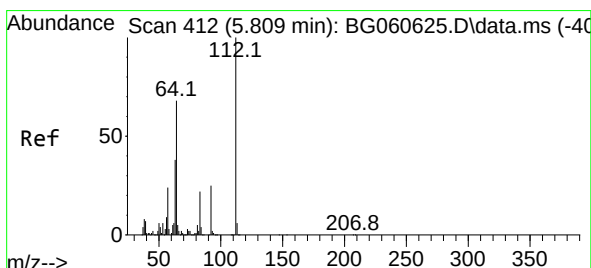
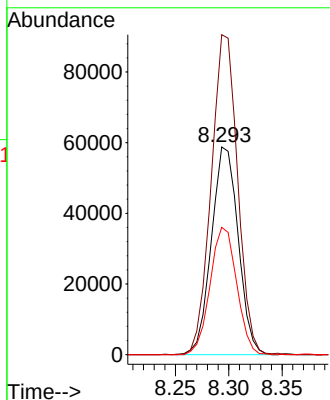
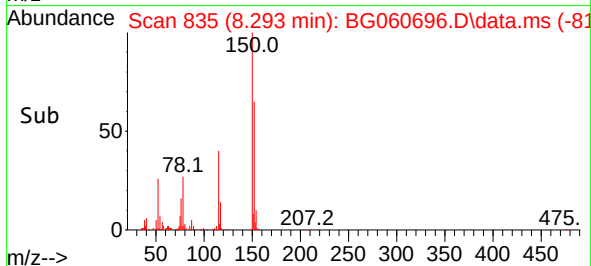
Instrument :
BNA_G
ClientSampleId :
OR-03-031924



Tgt Ion:152 Resp: 102700
Ion Ratio Lower Upper
152 100
150 154.1 126.6 190.0
115 61.4 47.8 71.8

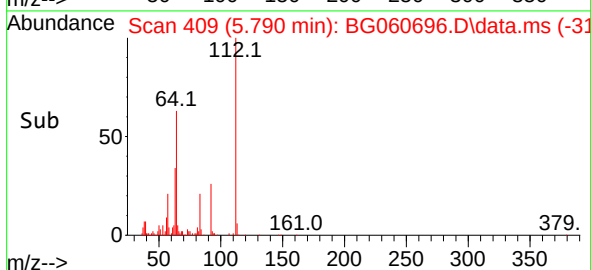
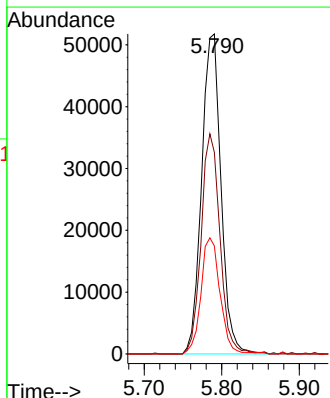
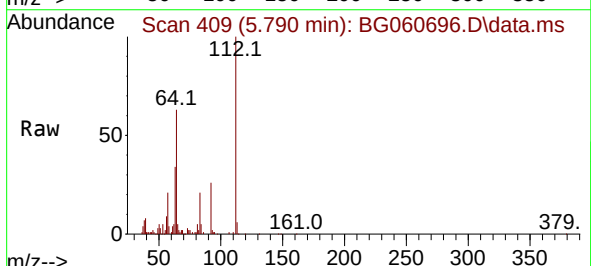
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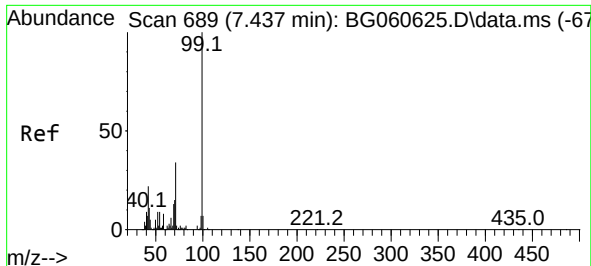
Reviewed By :Jagrut Upadhyay 03/21/2024
Supervised By :Sohil Jodhani 03/21/2024



#5
2-Fluorophenol
Concen: 13.789 ng
RT: 5.790 min Scan# 409
Delta R.T. 0.011 min
Lab File: BG060696.D
Acq: 20 Mar 2024 17:58

Tgt Ion:112 Resp: 90084
Ion Ratio Lower Upper
112 100
64 63.0 54.1 81.1
63 33.8 30.3 45.5





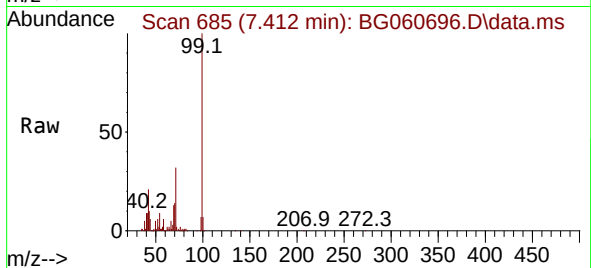
#7
Phenol-d6
Concen: 13.348 ng
RT: 7.412 min Scan# 689
Delta R.T. 0.005 min
Lab File: BG060696.D
Acq: 20 Mar 2024 17:58

Instrument :

BNA_G

ClientSampleId :

OR-03-031924

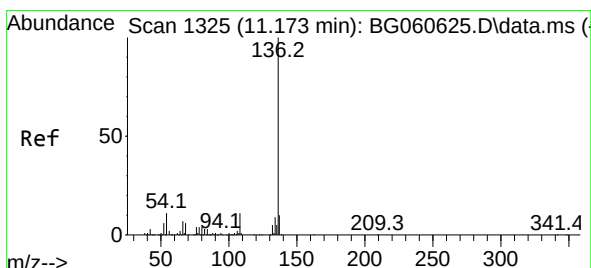
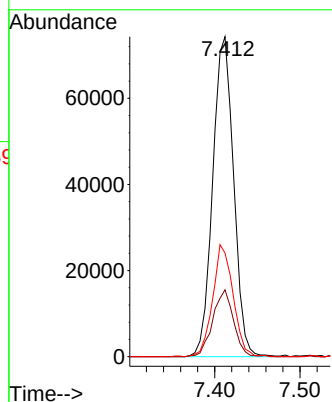
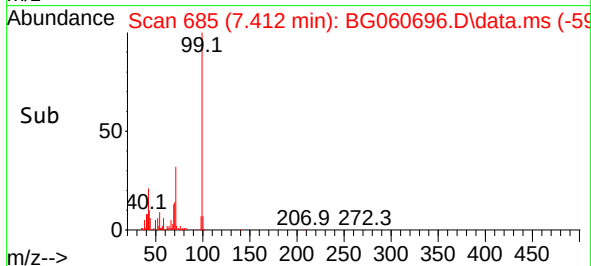


Tgt Ion: 99 Resp: 126499
Ion Ratio Lower Upper
99 100
42 20.9 17.5 26.3
71 32.4 27.4 41.0

Manual Integrations

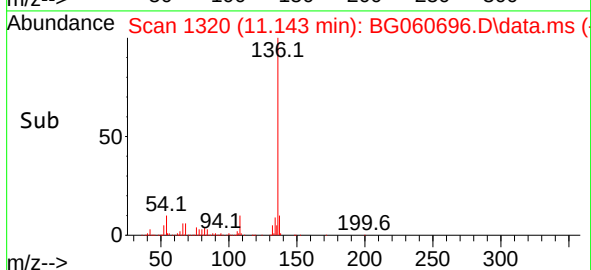
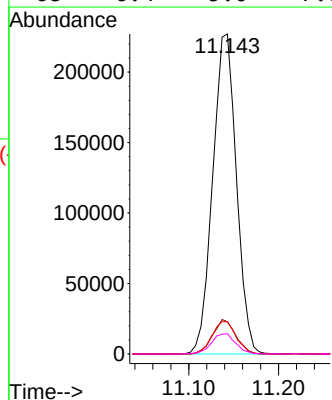
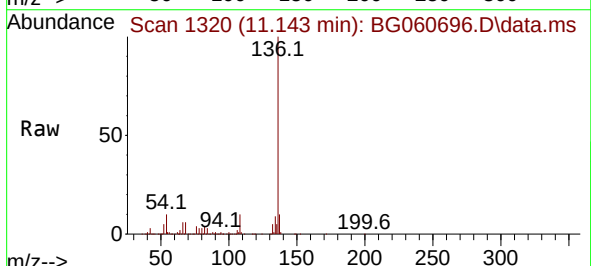
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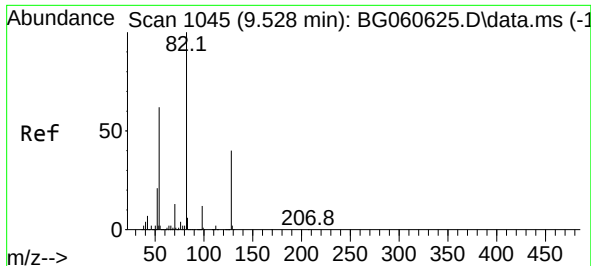
Reviewed By :Jagrut Upadhyay 03/21/2024
Supervised By :Sohil Jodhani 03/21/2024



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.143 min Scan# 1320
Delta R.T. 0.005 min
Lab File: BG060696.D
Acq: 20 Mar 2024 17:58

Tgt Ion:136 Resp: 415958
Ion Ratio Lower Upper
136 100
137 10.1 8.4 12.6
54 10.1 8.5 12.7
68 6.4 5.0 7.6





#23
Nitrobenzene-d5
Concen: 10.256 ng
RT: 9.492 min Scan# 1039
Delta R.T. -0.001 min
Lab File: BG060696.D
Acq: 20 Mar 2024 17:58

Instrument :

BNA_G

ClientSampleId :

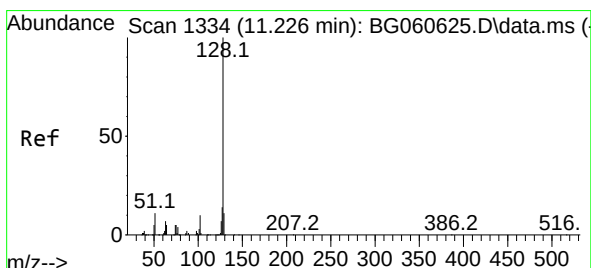
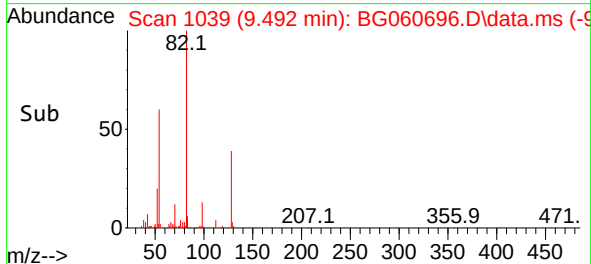
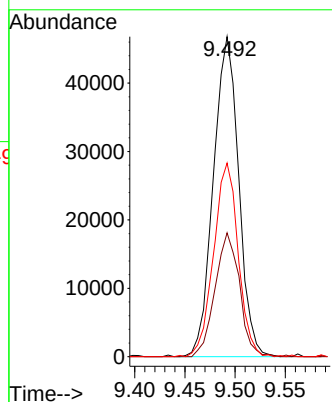
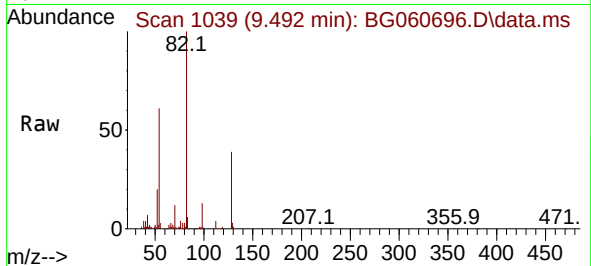
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Tgt Ion: 82 Resp: 81969
Ion Ratio Lower Upper
82 100
128 38.7 31.6 47.4
54 60.5 49.3 73.9

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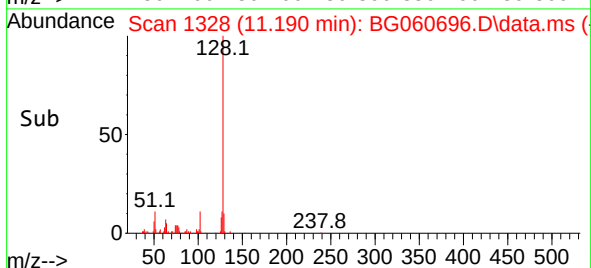
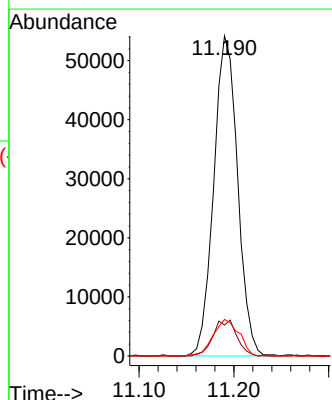
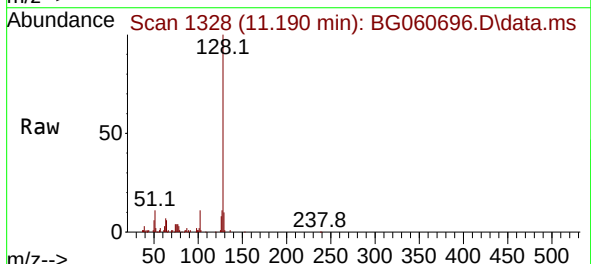
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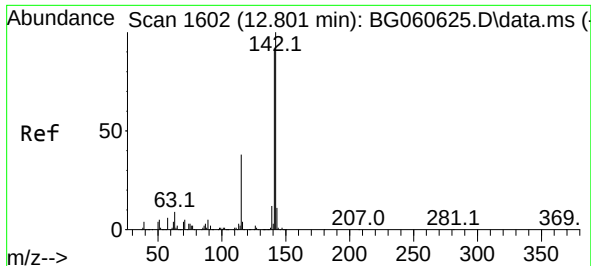
Reviewed By :Jagrut Upadhyay 03/21/2024
Supervised By :Sohil Jodhani 03/21/2024



#31
Naphthalene
Concen: 4.075 ng
RT: 11.190 min Scan# 1328
Delta R.T. -0.001 min
Lab File: BG060696.D
Acq: 20 Mar 2024 17:58

Tgt Ion:128 Resp: 94685
Ion Ratio Lower Upper
128 100
129 9.7 8.6 12.8
127 11.4 11.0 16.4





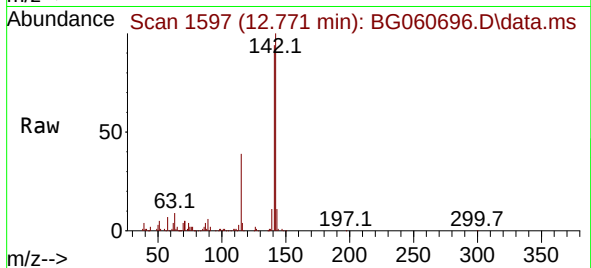
#37
2-Methylnaphthalene
Concen: 6.583 ng
RT: 12.771 min Scan# 11
Delta R.T. -0.001 min
Lab File: BG060696.D
Acq: 20 Mar 2024 17:58

Instrument :

BNA_G

ClientSampleId :

OR-03-031924

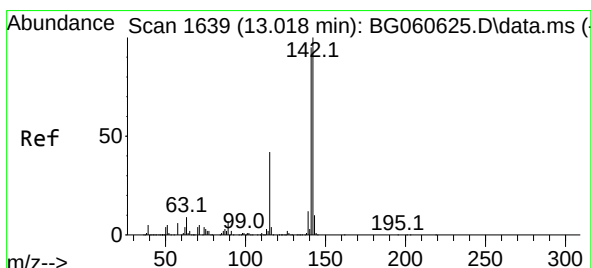
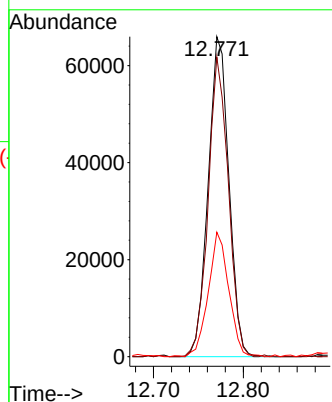
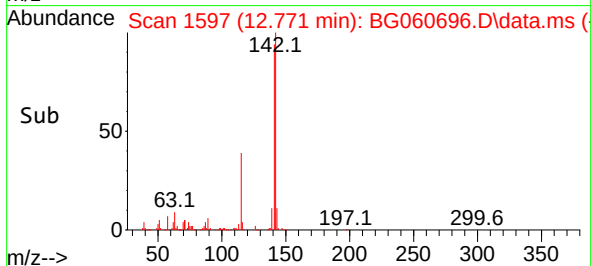


Tgt Ion:142 Resp: 10564
Ion Ratio Lower Upper
142 100
141 93.6 72.7 109.1
115 38.9 30.2 45.2

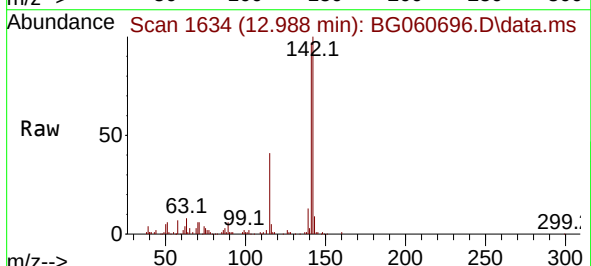
Manual Integrations

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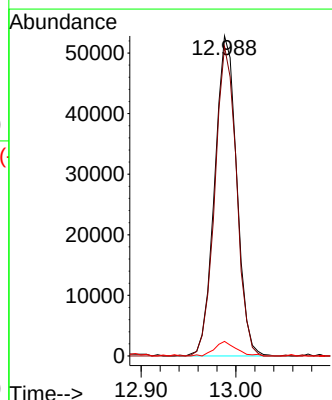
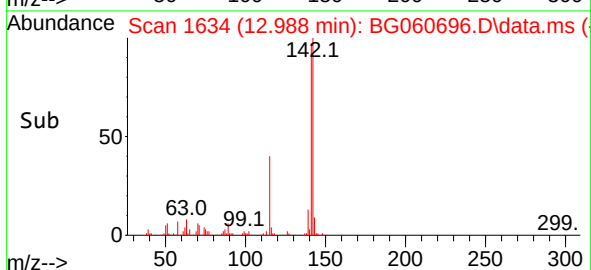
Reviewed By :Jagrut Upadhyay 03/21/2024
Supervised By :Sohil Jodhani 03/21/2024

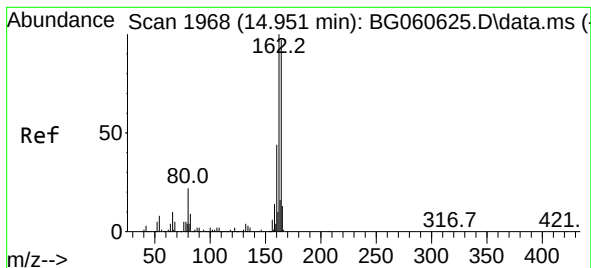


#38
1-Methylnaphthalene
Concen: 5.651 ng
RT: 12.988 min Scan# 1634
Delta R.T. -0.001 min
Lab File: BG060696.D
Acq: 20 Mar 2024 17:58



Tgt Ion:142 Resp: 85115
Ion Ratio Lower Upper
142 100
141 96.7 76.3 114.5
116 4.5 3.4 5.2





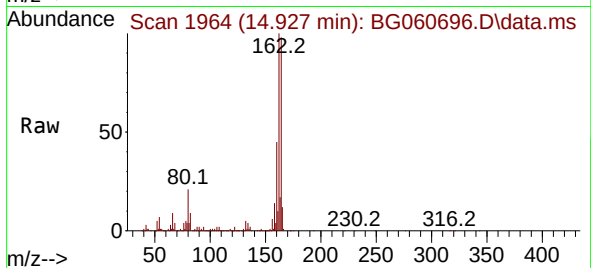
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.927 min Scan# 1964
Delta R.T. -0.001 min
Lab File: BG060696.D
Acq: 20 Mar 2024 17:58

Instrument :

BNA_G

ClientSampleId :

OR-03-031924

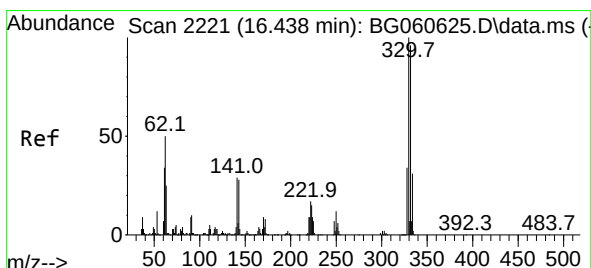
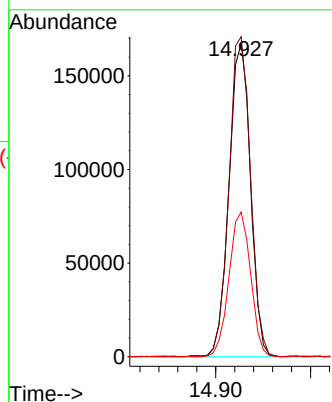
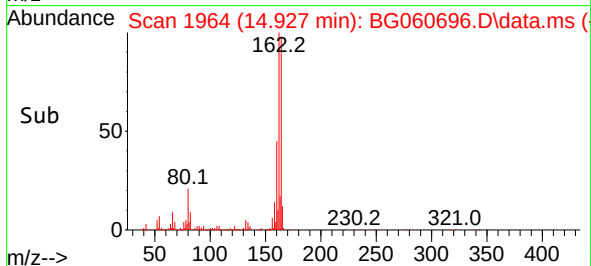


Tgt Ion:164 Resp: 263128
Ion Ratio Lower Upper
164 100
162 102.3 82.5 123.7
160 46.1 36.4 54.6

Manual Integrations

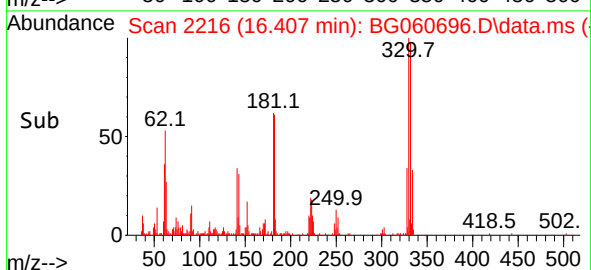
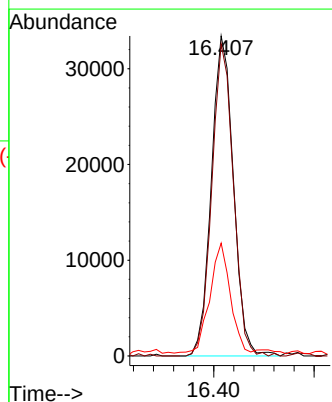
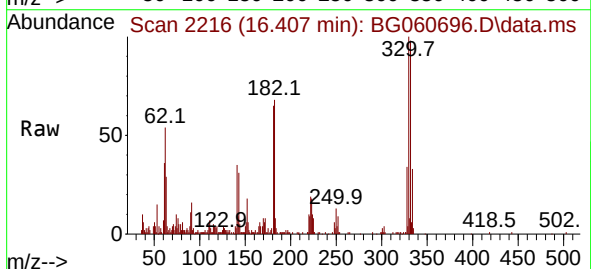
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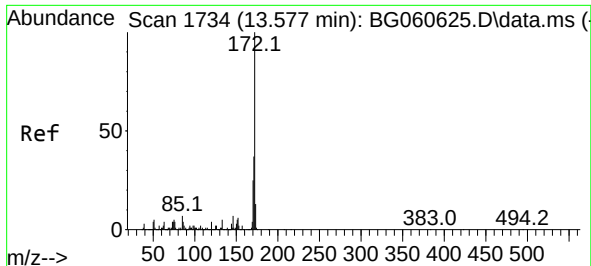
Reviewed By :Jagrut Upadhyay 03/21/2024
Supervised By :Sohil Jodhani 03/21/2024



#42
2,4,6-Tribromophenol
Concen: 16.736 ng
RT: 16.407 min Scan# 2216
Delta R.T. -0.001 min
Lab File: BG060696.D
Acq: 20 Mar 2024 17:58

Tgt Ion:330 Resp: 51031
Ion Ratio Lower Upper
330 100
332 95.2 77.8 116.8
141 31.7 25.4 38.2





#45
2-Fluorobiphenyl
Concen: 9.534 ng
RT: 13.546 min Scan# 1729
Delta R.T. -0.001 min
Lab File: BG060696.D
Acq: 20 Mar 2024 17:58

Instrument :

BNA_G

ClientSampleId :

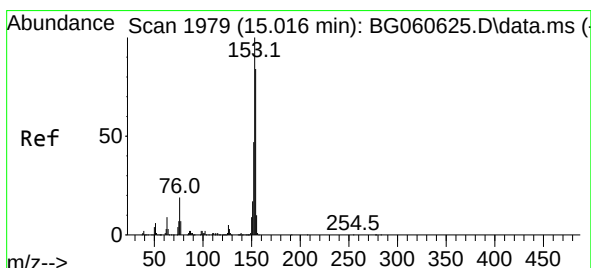
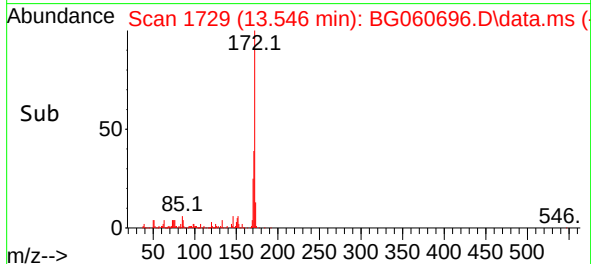
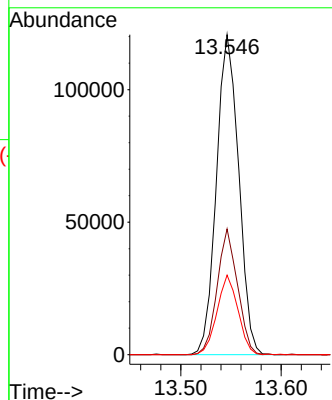
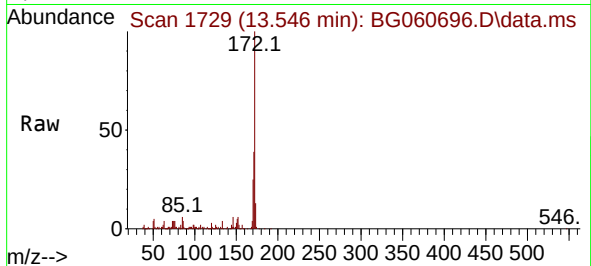
OR-03-031924

Tgt Ion:172 Resp: 185539
Ion Ratio Lower Upper
172 100
171 39.3 29.9 44.9
170 24.8 19.8 29.6

Manual Integrations

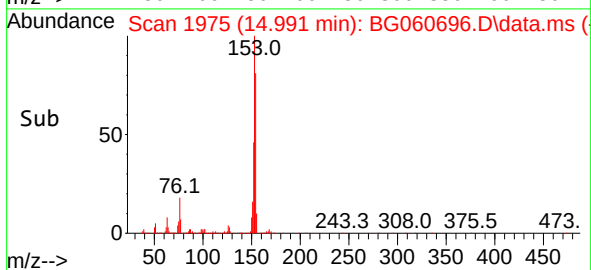
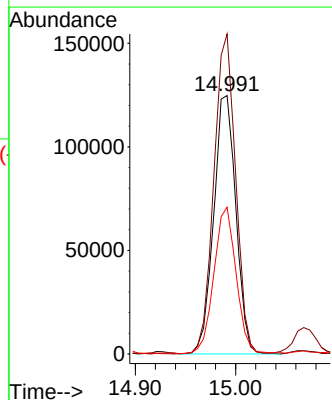
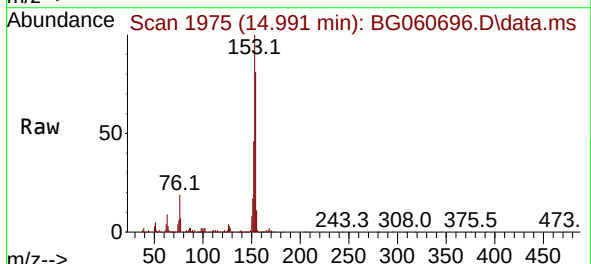
APPROVED

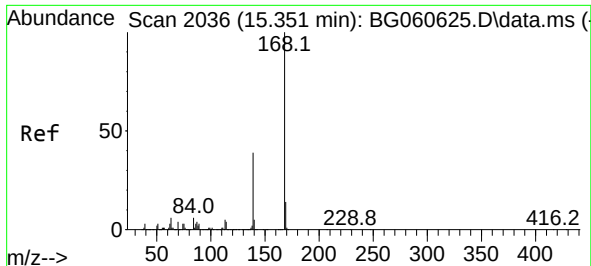
Reviewed By :Jagrut Upadhyay 03/21/2024
Supervised By :Sohil Jodhani 03/21/2024



#52
Acenaphthene
Concen: 13.050 ng
RT: 14.991 min Scan# 1975
Delta R.T. -0.001 min
Lab File: BG060696.D
Acq: 20 Mar 2024 17:58

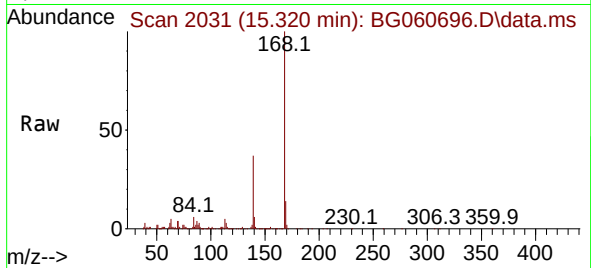
Tgt Ion:154 Resp: 191756
Ion Ratio Lower Upper
154 100
153 123.9 94.8 142.2
152 56.8 44.8 67.2





#55
Dibenzenofuran
Concen: 7.271 ng
RT: 15.320 min Scan# 2036
Delta R.T. -0.001 min
Lab File: BG060696.D
Acq: 20 Mar 2024 17:58

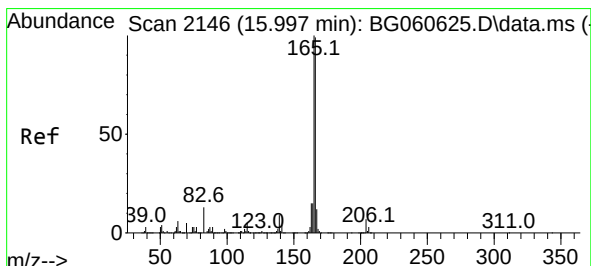
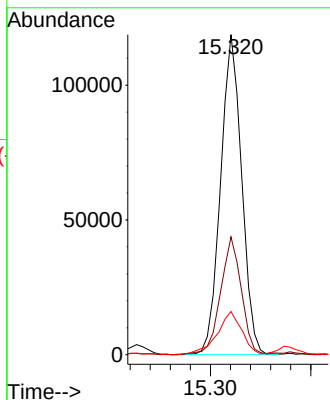
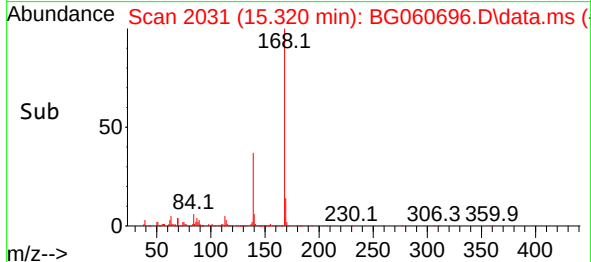
Instrument :
BNA_G
ClientSampleId :
OR-03-031924



Tgt Ion:168 Resp: 172992
Ion Ratio Lower Upper
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139 36.8 30.9 46.3
169 13.5 10.9 16.3

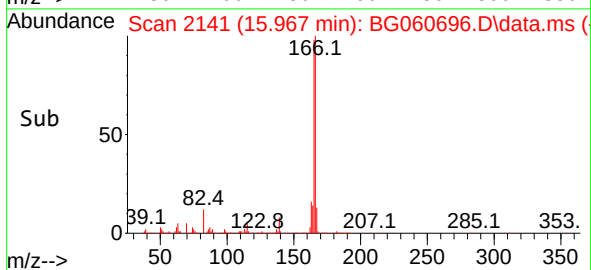
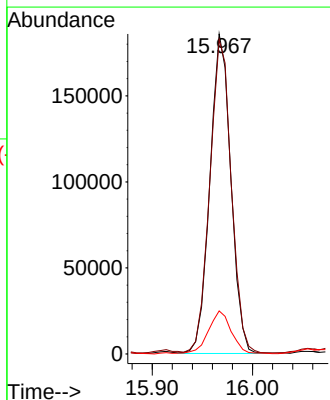
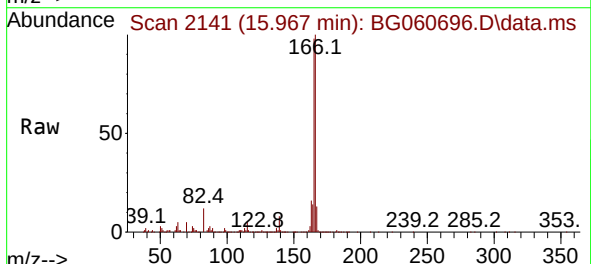
Manual Integrations
APPROVED

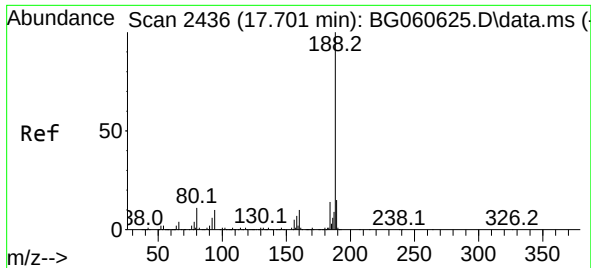
Reviewed By :Jagrut Upadhyay 03/21/2024
Supervised By :Sohil Jodhani 03/21/2024



#58
Fluorene
Concen: 14.167 ng
RT: 15.967 min Scan# 2141
Delta R.T. -0.001 min
Lab File: BG060696.D
Acq: 20 Mar 2024 17:58

Tgt Ion:166 Resp: 269679
Ion Ratio Lower Upper
166 100
165 98.2 80.5 120.7
167 13.4 9.9 14.9





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.677 min Scan# 2436
Delta R.T. 0.005 min
Lab File: BG060696.D
Acq: 20 Mar 2024 17:58

Instrument :

BNA_G

ClientSampleId :

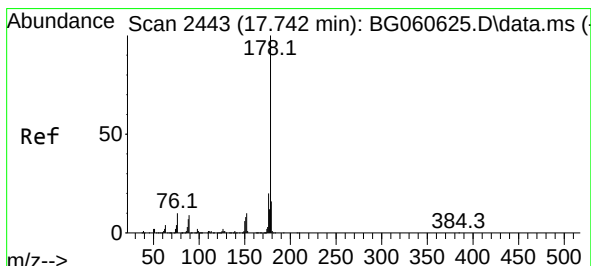
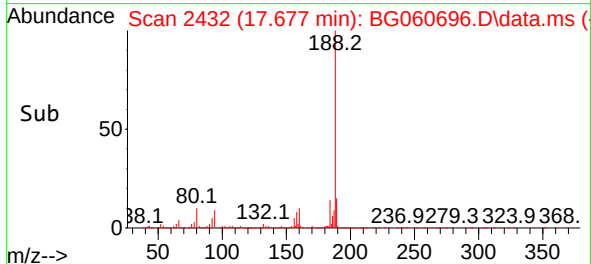
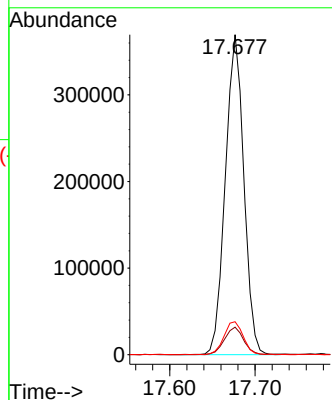
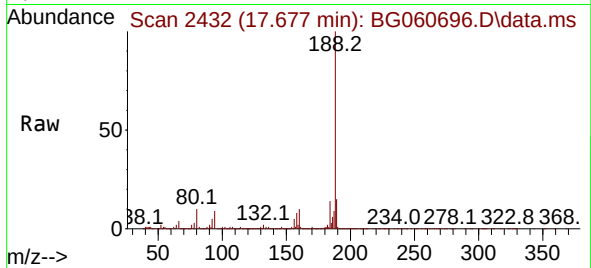
OR-03-031924

Tgt Ion:188 Resp: 55735
Ion Ratio Lower Upper
188 100
94 8.6 7.9 11.9
80 10.3 8.6 13.0

Manual Integrations

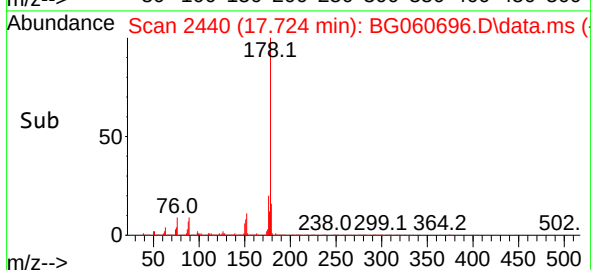
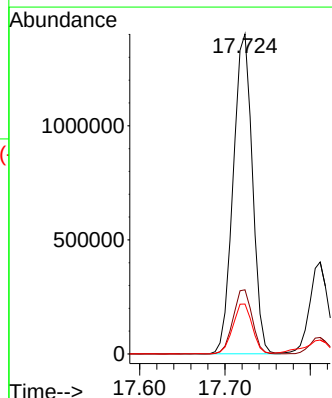
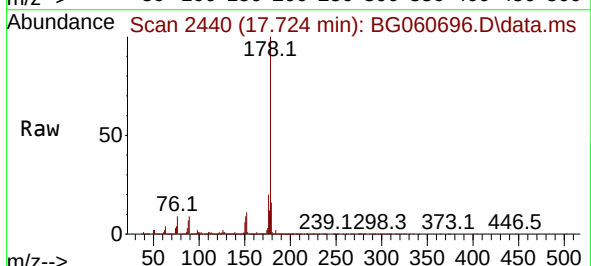
APPROVED

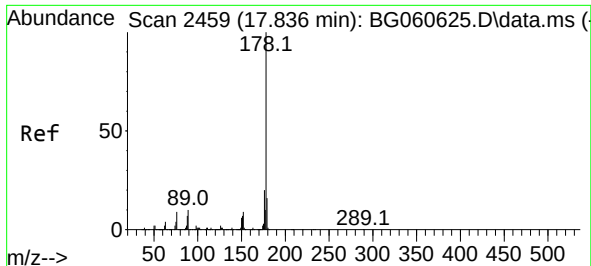
Reviewed By :Jagrut Upadhyay 03/21/2024
Supervised By :Sohil Jodhani 03/21/2024



#71
Phenanthrene
Concen: 72.863 ng
RT: 17.724 min Scan# 2440
Delta R.T. 0.005 min
Lab File: BG060696.D
Acq: 20 Mar 2024 17:58

Tgt Ion:178 Resp: 2187600
Ion Ratio Lower Upper
178 100
176 20.1 16.1 24.1
179 15.6 12.9 19.3





#72
 Anthracene
 Concen: 19.424 ng
 RT: 17.812 min Scan# 2459
 Delta R.T. -0.001 min
 Lab File: BG060696.D
 Acq: 20 Mar 2024 17:58

Instrument :

BNA_G

ClientSampleId :

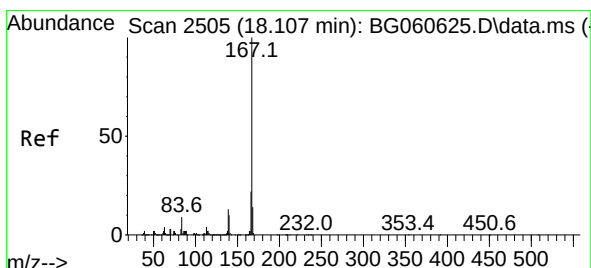
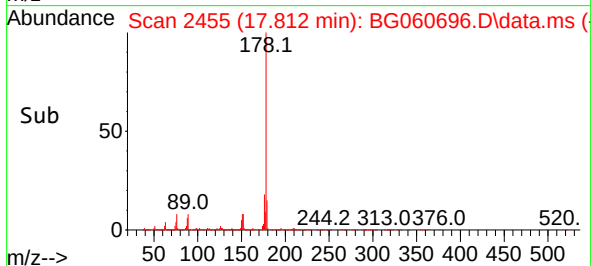
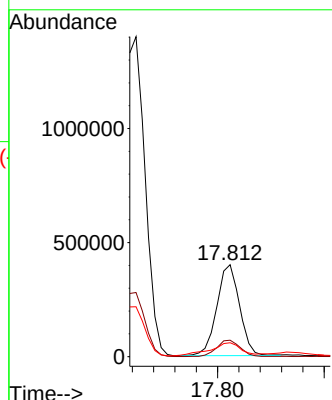
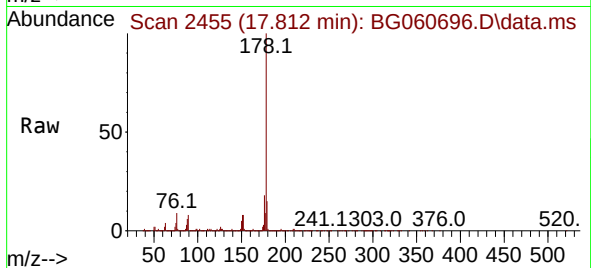
OR-03-031924

Tgt Ion:178 Resp: 589658
 Ion Ratio Lower Upper
 178 100
 176 18.0 15.8 23.6
 179 15.1 12.6 19.0

Manual Integrations

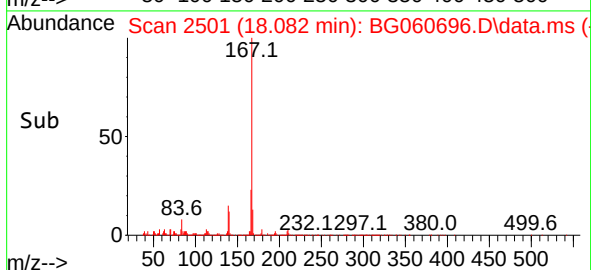
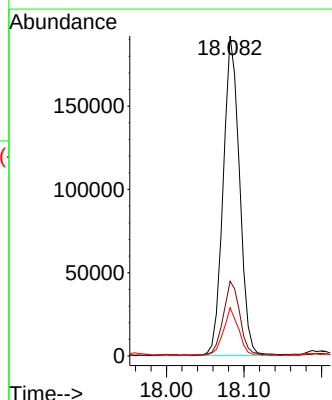
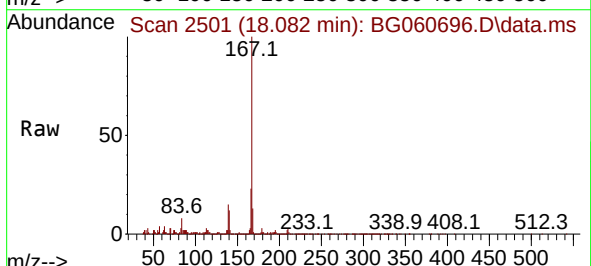
APPROVED

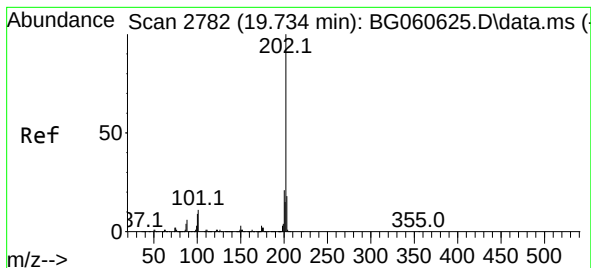
Reviewed By :Jagrut Upadhyay 03/21/2024
 Supervised By :Sohil Jodhani 03/21/2024



#73
 Carbazole
 Concen: 10.689 ng
 RT: 18.082 min Scan# 2501
 Delta R.T. -0.001 min
 Lab File: BG060696.D
 Acq: 20 Mar 2024 17:58

Tgt Ion:167 Resp: 282150
 Ion Ratio Lower Upper
 167 100
 166 23.4 18.0 27.0
 139 15.1 10.7 16.1





#75

Fluoranthene

Concen: 75.479 ng

RT: 19.715 min Scan# 21

Delta R.T. 0.005 min

Lab File: BG060696.D

Acq: 20 Mar 2024 17:58

Instrument :

BNA_G

ClientSampleId :

OR-03-031924

Tgt Ion:202 Resp: 250669

Ion Ratio Lower Upper

202 100

101 11.4 0.0 31.2

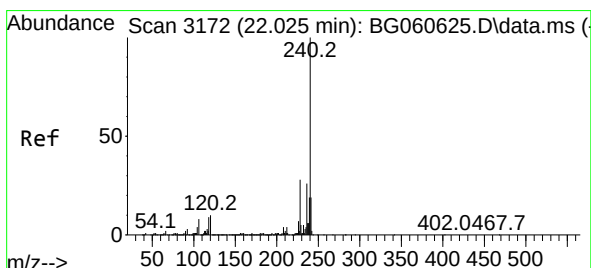
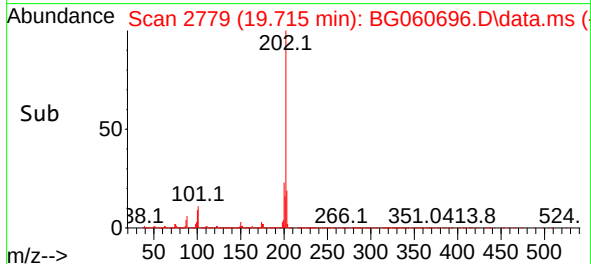
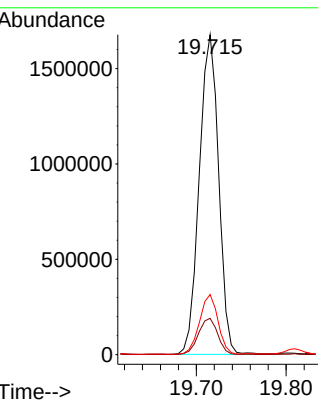
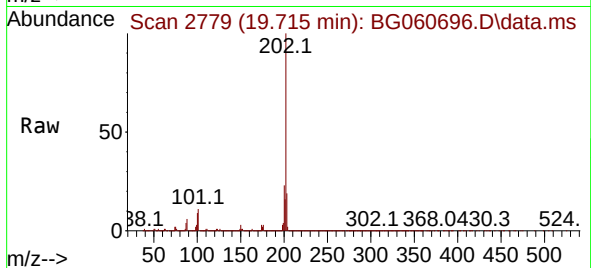
203 18.8 0.0 38.0

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/21/2024

Supervised By :Sohil Jodhani 03/21/2024



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.995 min Scan# 3167

Delta R.T. 0.005 min

Lab File: BG060696.D

Acq: 20 Mar 2024 17:58

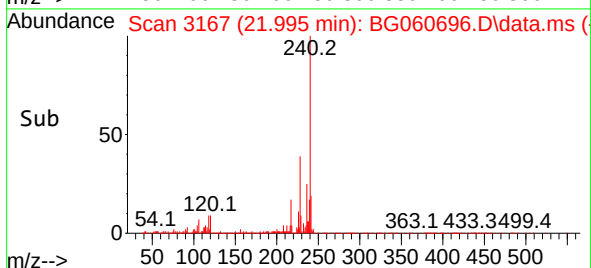
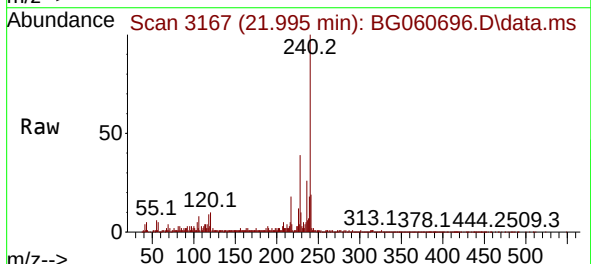
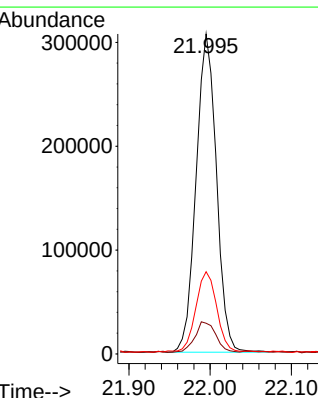
Tgt Ion:240 Resp: 532454

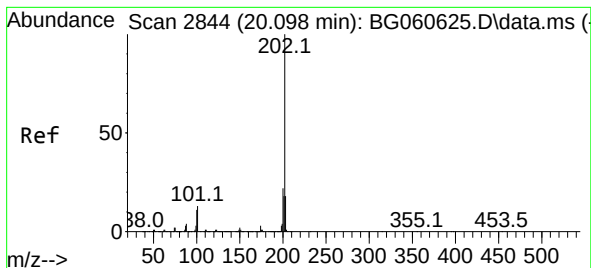
Ion Ratio Lower Upper

240 100

120 9.6 7.8 11.8

236 25.7 20.6 31.0





#78

Pyrene

Concen: 57.797 ng

RT: 20.080 min Scan# 21

Delta R.T. 0.005 min

Lab File: BG060696.D

Acq: 20 Mar 2024 17:58

Instrument :

BNA_G

ClientSampleId :

OR-03-031924

Tgt Ion:202 Resp: 2147628

Ion Ratio Lower Upper

202 100

200 22.6 17.9 26.9

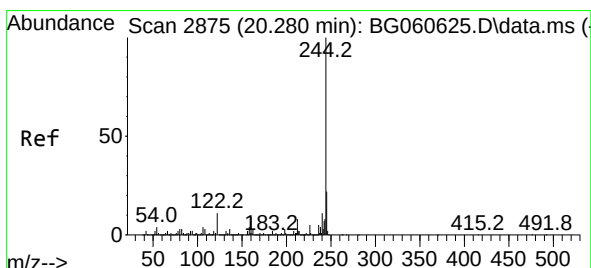
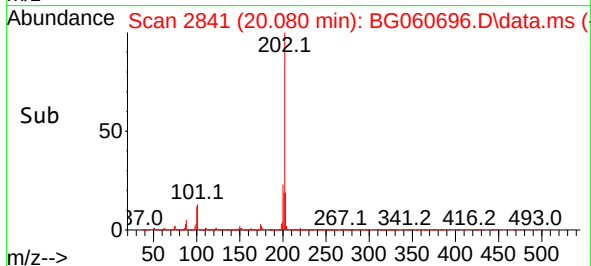
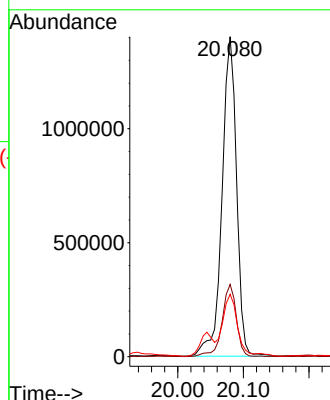
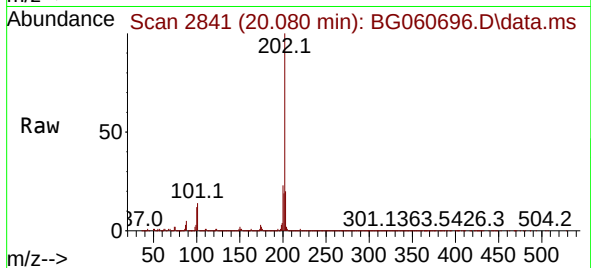
203 19.5 14.3 21.5

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/21/2024

Supervised By :Sohil Jodhani 03/21/2024



#79

Terphenyl-d14

Concen: 9.927 ng

RT: 20.250 min Scan# 2870

Delta R.T. -0.007 min

Lab File: BG060696.D

Acq: 20 Mar 2024 17:58

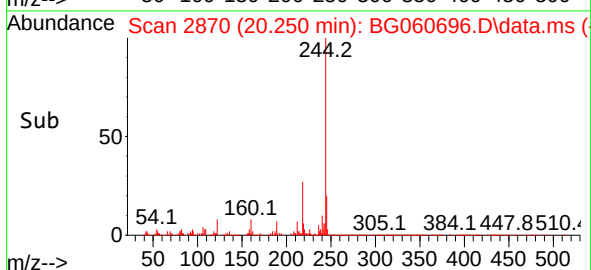
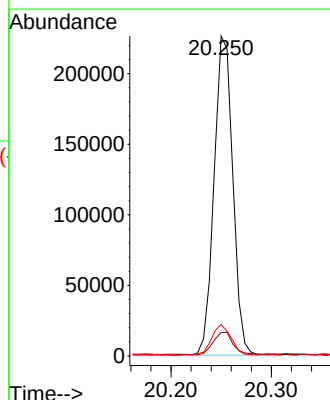
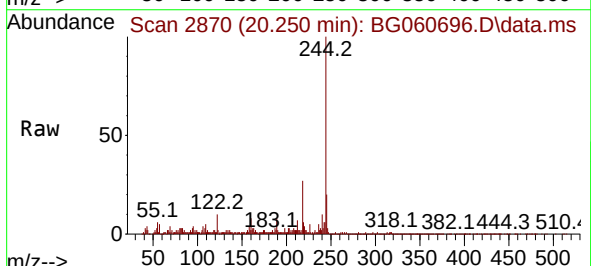
Tgt Ion:244 Resp: 292425

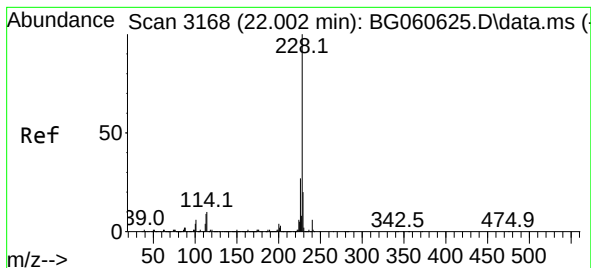
Ion Ratio Lower Upper

244 100

212 7.3 6.6 9.8

122 9.8 8.5 12.7





#81

Benzo(a)anthracene

Concen: 27.660 ng

RT: 21.971 min Scan# 3163

Delta R.T. -0.001 min

Lab File: BG060696.D

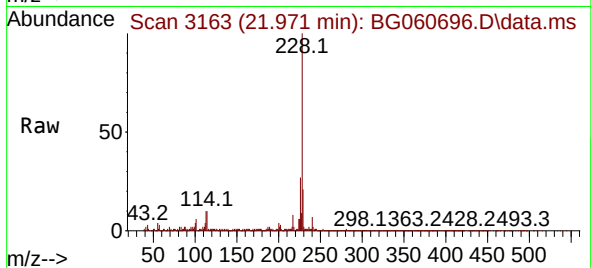
Acq: 20 Mar 2024 17:58

Instrument :

BNA_G

ClientSampleId :

OR-03-031924



Tgt Ion:228 Resp: 101404

Ion Ratio Lower Upper

228 100

226 27.0 21.8 32.8

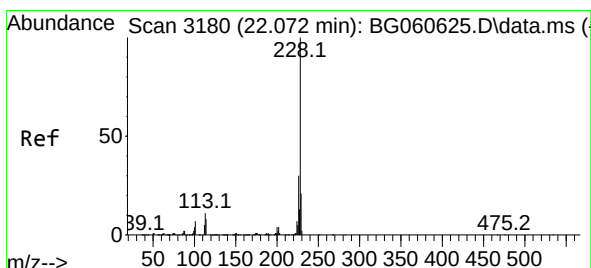
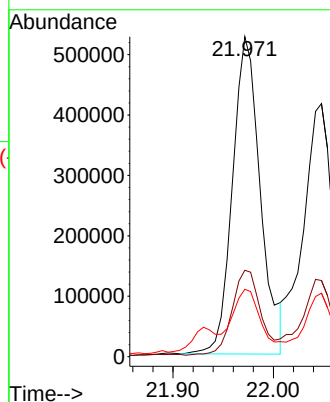
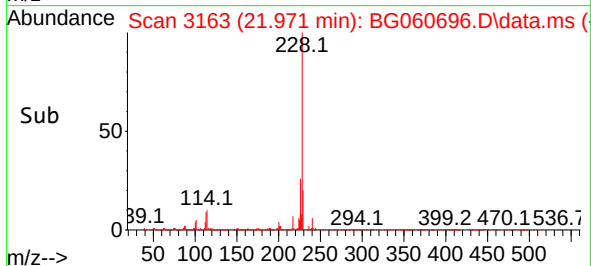
229 21.0 15.8 23.6

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/21/2024

Supervised By :Sohil Jodhani 03/21/2024



#83

Chrysene

Concen: 25.032 ng m

RT: 22.048 min Scan# 3176

Delta R.T. 0.005 min

Lab File: BG060696.D

Acq: 20 Mar 2024 17:58

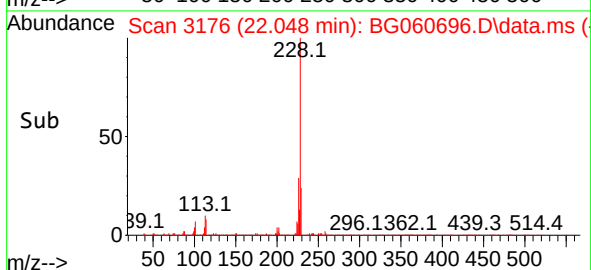
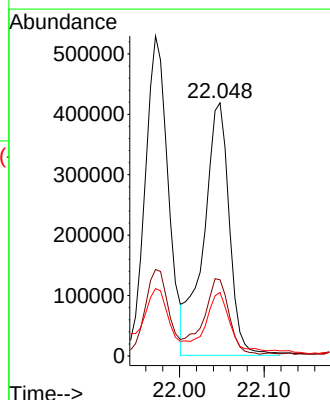
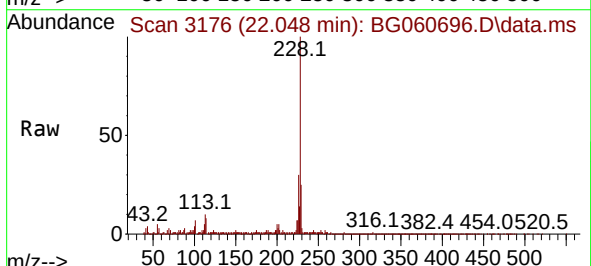
Tgt Ion:228 Resp: 891077

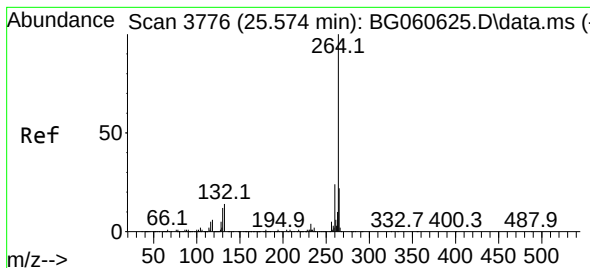
Ion Ratio Lower Upper

228 100

226 30.1 24.2 36.2

229 25.1 16.4 24.6#





#86

Perylene-d12

Concen: 20.000 ng

RT: 25.544 min Scan# 31

Delta R.T. 0.017 min

Lab File: BG060696.D

Acq: 20 Mar 2024 17:58

Instrument :

BNA_G

ClientSampleId :

OR-03-031924

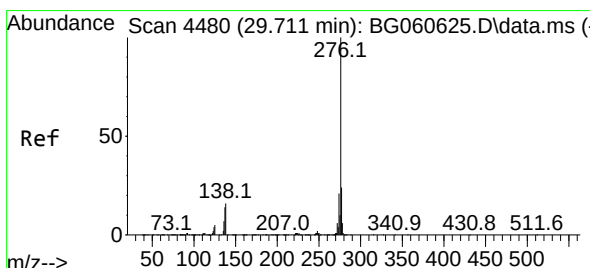
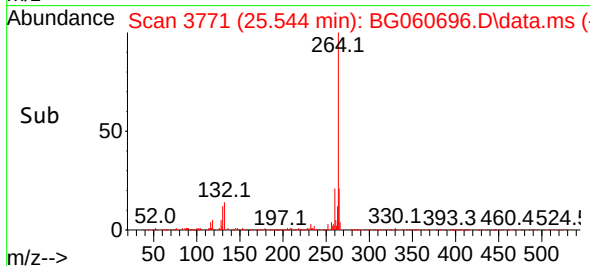
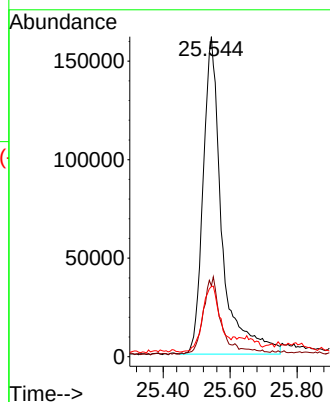
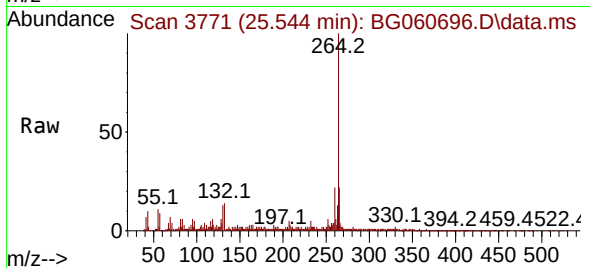
Tgt Ion:264 Resp: 628790

Ion	Ratio	Lower	Upper
264	100		
260	22.1	19.4	29.2
265	22.0	18.1	27.1

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/21/2024
Supervised By :Sohil Jodhani 03/21/2024



#87

Indeno(1,2,3-cd)pyrene

Concen: 7.588 ng m

RT: 29.645 min Scan# 4469

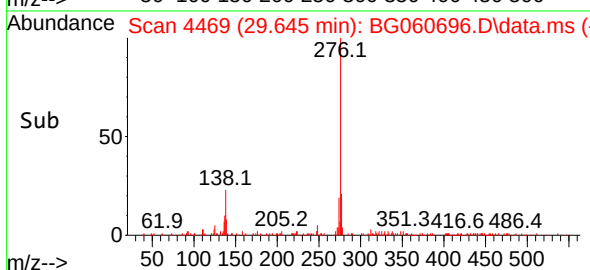
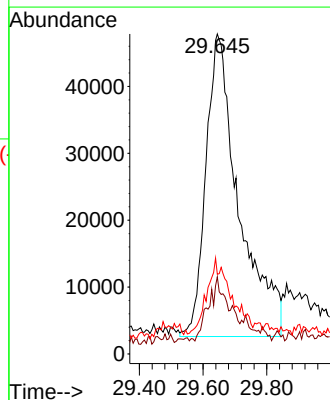
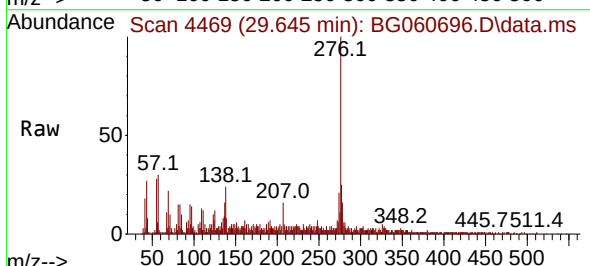
Delta R.T. 0.011 min

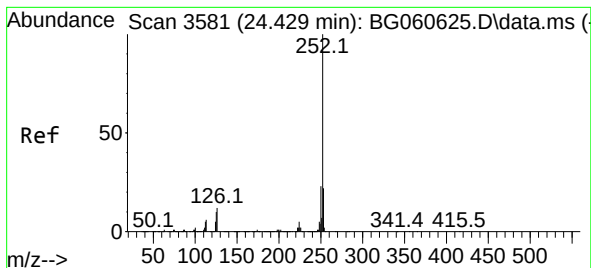
Lab File: BG060696.D

Acq: 20 Mar 2024 17:58

Tgt Ion:276 Resp: 325467

Ion	Ratio	Lower	Upper
276	100		
138	10.9	6.6	10.0#
277	8.8	16.7	25.1#





#88

Benzo(b)fluoranthene

Concen: 26.308 ng

RT: 24.392 min Scan# 31

Delta R.T. 0.005 min

Lab File: BG060696.D

Acq: 20 Mar 2024 17:58

Instrument :

BNA_G

ClientSampleId :

OR-03-031924

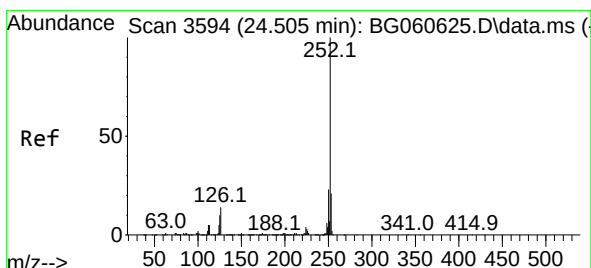
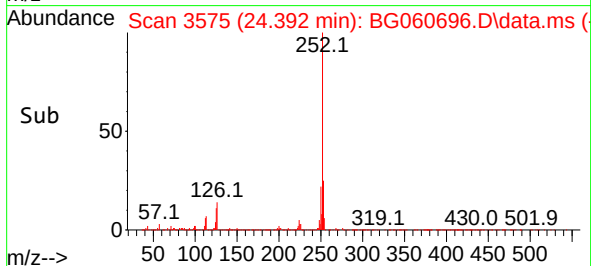
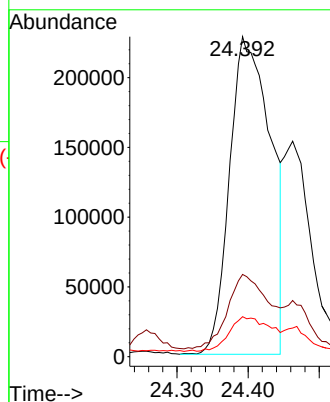
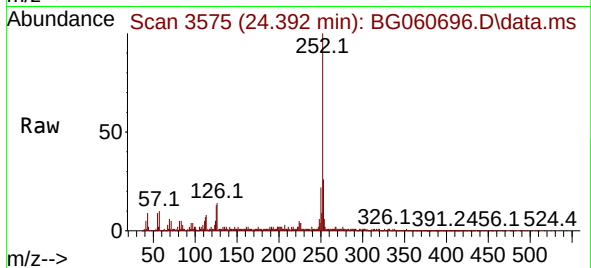
Tgt Ion:252 Resp: 910064

Ion	Ratio	Lower	Upper
252	100		
253	25.7	17.6	26.4
125	12.5	7.8	11.6

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/21/2024
Supervised By :Sohil Jodhani 03/21/2024



#89

Benzo(k)fluoranthene

Concen: 12.816 ng m

RT: 24.463 min Scan# 3587

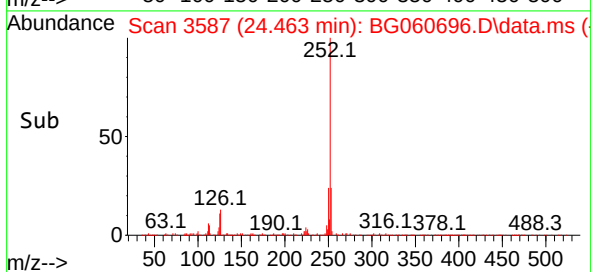
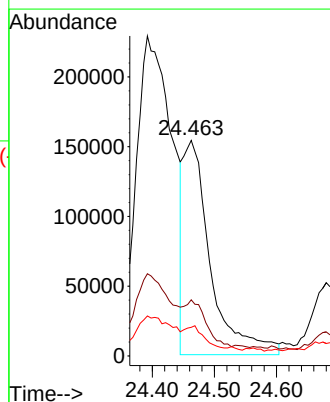
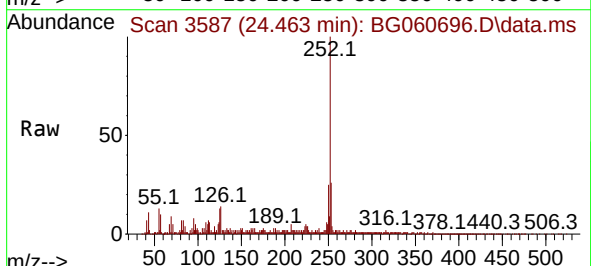
Delta R.T. 0.005 min

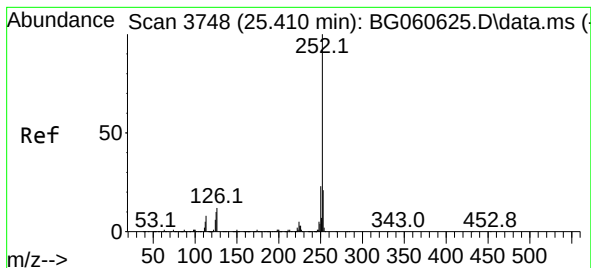
Lab File: BG060696.D

Acq: 20 Mar 2024 17:58

Tgt Ion:252 Resp: 465758

Ion	Ratio	Lower	Upper
252	100		
253	26.1	17.1	25.7#
125	13.3	8.0	12.0#





#90

Benzo(a)pyrene

Concen: 20.699 ng

RT: 25.368 min Scan# 31

Delta R.T. 0.011 min

Lab File: BG060696.D

Acq: 20 Mar 2024 17:58

Instrument :

BNA_G

ClientSampleId :

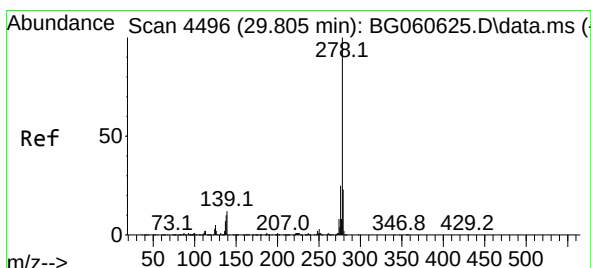
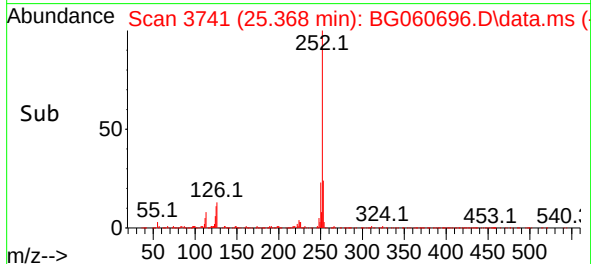
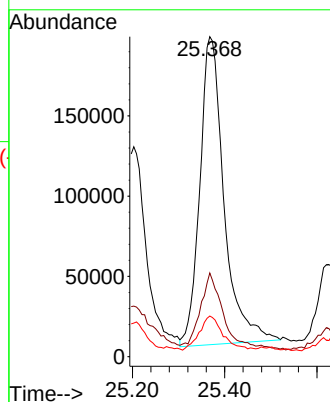
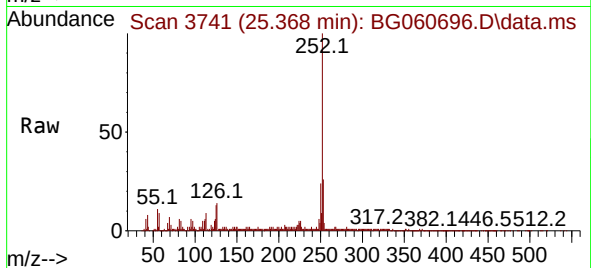
OR-03-031924

Tgt Ion:252 Resp: 701990
 Ion Ratio Lower Upper
 252 100
 253 26.1 17.0 25.6#
 125 12.7 8.2 12.2#

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/21/2024
 Supervised By :Sohil Jodhani 03/21/2024



#91

Dibenzo(a,h)anthracene

Concen: 2.123 ng m

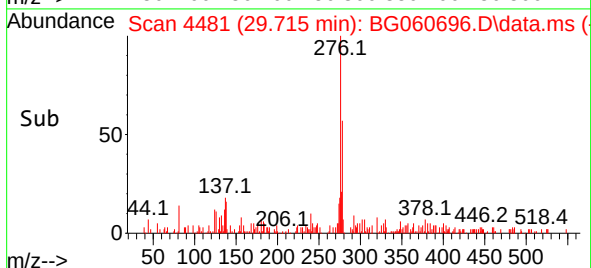
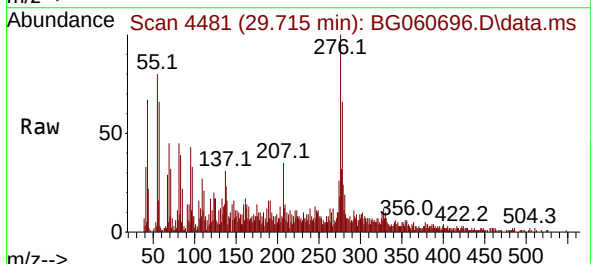
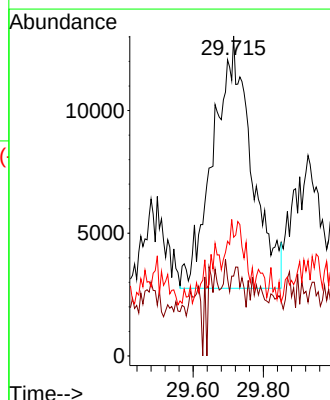
RT: 29.715 min Scan# 4481

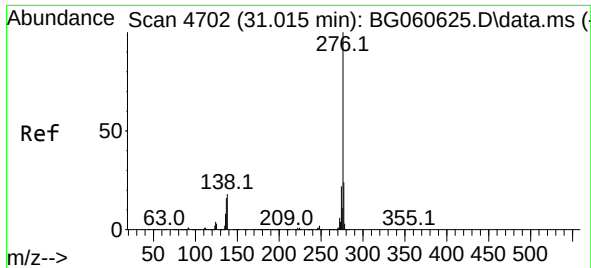
Delta R.T. -0.001 min

Lab File: BG060696.D

Acq: 20 Mar 2024 17:58

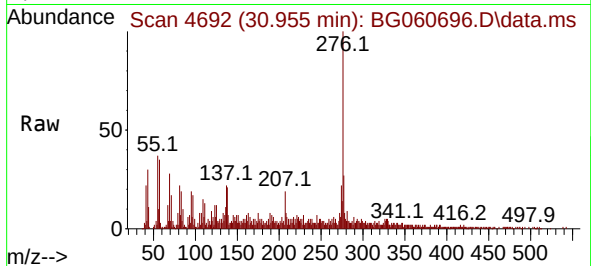
Tgt Ion:278 Resp: 77296
 Ion Ratio Lower Upper
 278 100
 139 24.9 9.8 14.8#
 279 37.1 18.4 27.6#





#92
Benzo(g,h,i)perylene
Concen: 8.016 ng m
RT: 30.955 min Scan# 4
Delta R.T. 0.017 min
Lab File: BG060696.D
Acq: 20 Mar 2024 17:58

Instrument :
BNA_G
ClientSampleId :
OR-03-031924



Tgt Ion:276 Resp: 28257
Ion Ratio Lower Upper
276 100
277 26.6 19.0 28.4
138 20.6 14.4 21.6

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 03/21/2024
Supervised By :Sohil Jodhani 03/21/2024

