

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG042224\
 Data File : BG060996.D
 Acq On : 22 Apr 2024 18:06
 Operator : MA/JU
 Sample : P2126-07
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SP-1C

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 04/24/2024
 Supervised By :mohammad ahmed 04/24/2024

Quant Time: Apr 23 02:19:09 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG042024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 22 04:22:00 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.946	152	30512	20.000	ng	0.00
21) Naphthalene-d8	10.737	136	108744	20.000	ng	# 0.00
39) Acenaphthene-d10	14.568	164	81784	20.000	ng	0.00
64) Phenanthrene-d10	17.324	188	191784	20.000	ng	0.00
76) Chrysene-d12	21.589	240	194152	20.000	ng	0.00
86) Perylene-d12	24.721	264	234219	20.000	ng	# 0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.532	112	149519	99.121	ng	0.00
7) Phenol-d6	7.112	99	197490	88.239	ng	0.00
23) Nitrobenzene-d5	9.098	82	149099	61.602	ng	0.00
42) 2,4,6-Tribromophenol	16.060	330	162055	90.235	ng	0.00
45) 2-Fluorobiphenyl	13.193	172	390963	66.162	ng	0.00
79) Terphenyl-d14	19.944	244	707141	56.535	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.790	128	242169	40.677	ng	99
37) 2-Methylnaphthalene	12.394	142	64113	13.697	ng	96
38) 1-Methylnaphthalene	12.611	142	44012	10.076	ng	100
46) 1,1'-Biphenyl	13.405	154	21339	3.874	ng	95
52) Acenaphthene	14.633	154	163829	37.902	ng	98
55) Dibenzofuran	14.968	168	165830	22.217	ng	96
58) Fluorene	15.620	166	192120	30.495	ng	99
71) Phenanthrene	17.376	178	3001125	306.573	ng	95
72) Anthracene	17.459	178	675290	66.979	ng	99
73) Carbazole	17.723	167	333474	39.826	ng	98
75) Fluoranthene	19.392	202	3937796	303.102	ng	87
78) Pyrene	19.756	202	3504063	265.063	ng	92
81) Benzo(a)anthracene	21.572	228	1903991	139.486	ng	94
83) Chrysene	21.642	228	1722267	132.523	ng	97
87) Indeno(1,2,3-cd)pyrene	28.281	276	820457	50.496	ng	# 91
88) Benzo(b)fluoranthene	23.751	252	2170719	163.543	ng	100
89) Benzo(k)fluoranthene	23.804	252	770214m	57.483	ng	
90) Benzo(a)pyrene	24.592	252	1546872	120.404	ng	97
91) Dibenzo(a,h)anthracene	28.322	278	190133m	14.323	ng	
92) Benzo(g,h,i)perylene	29.392	276	779381	59.214	ng	96

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

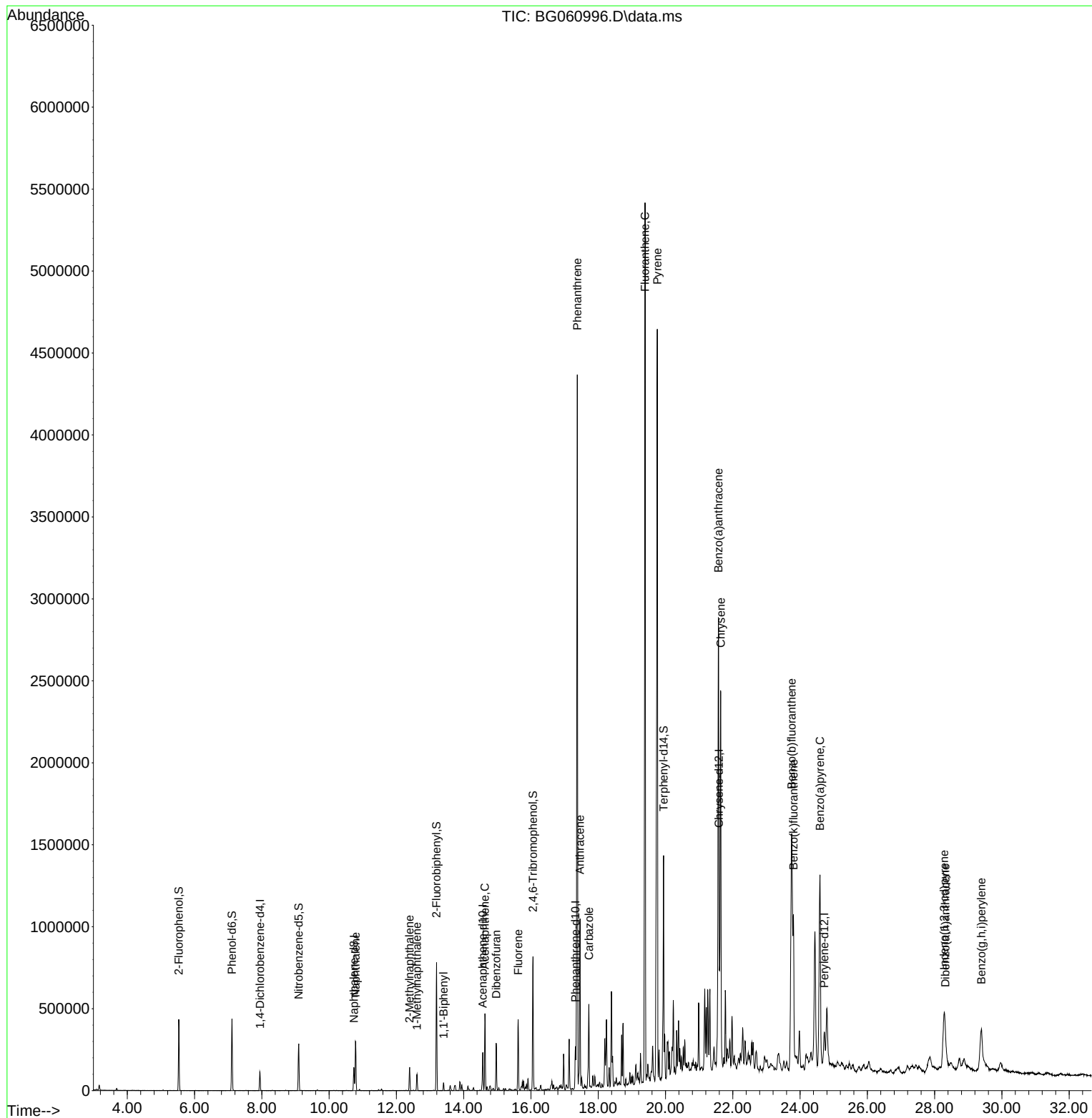
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG042224\
Data File : BG060996.D
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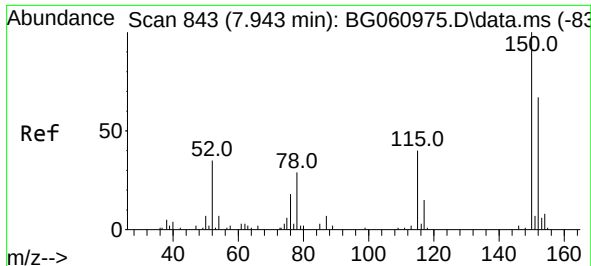
Instrument :
BNA_G
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SP-1C

Quant Time: Apr 23 02:19:09 2024
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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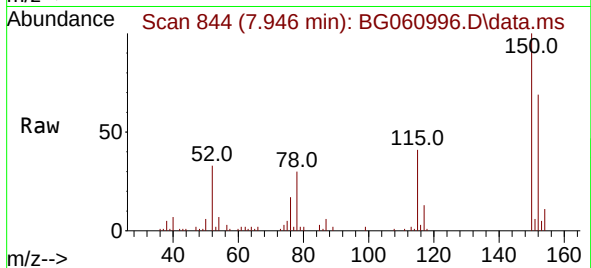
Reviewed By :Yogesh Patel 04/24/2024
Supervised By :mohammad ahmed 04/24/2024





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.946 min Scan# 843
Delta R.T. 0.003 min
Lab File: BG060996.D
Acq: 22 Apr 2024 18:06

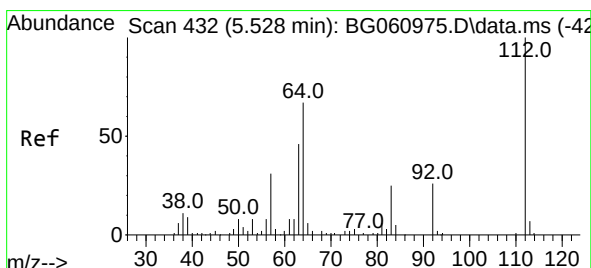
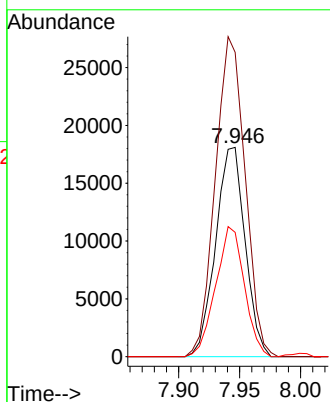
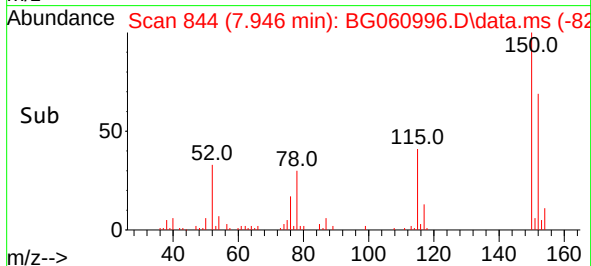
Instrument :
BNA_G
ClientSampleId :
SP-1C



Tgt Ion:152 Resp: 30512
Ion Ratio Lower Upper
152 100
150 145.4 118.6 178.0
115 59.4 47.4 71.0

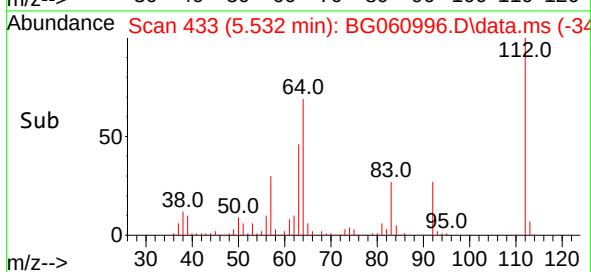
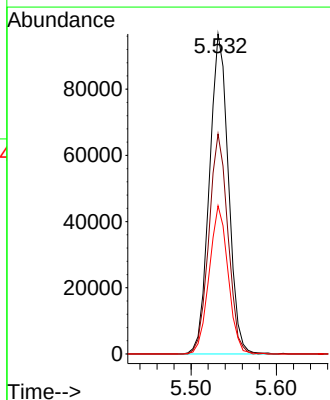
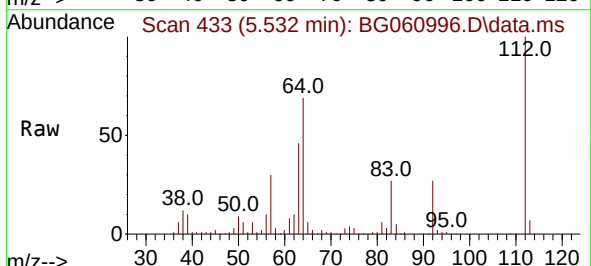
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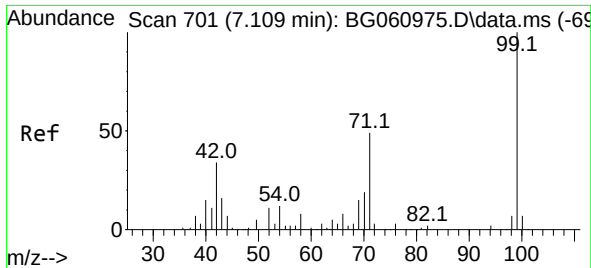
Reviewed By :Yogesh Patel 04/24/2024
Supervised By :mohammad ahmed 04/24/2024



#5
2-Fluorophenol
Concen: 99.121 ng
RT: 5.532 min Scan# 433
Delta R.T. 0.003 min
Lab File: BG060996.D
Acq: 22 Apr 2024 18:06

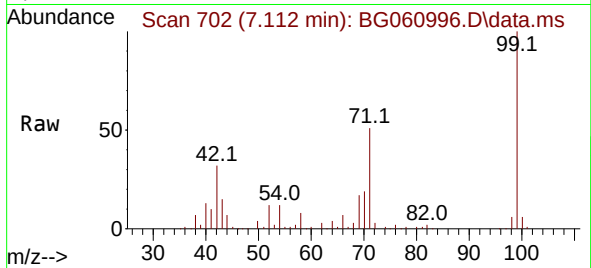
Tgt Ion:112 Resp: 149519
Ion Ratio Lower Upper
112 100
64 68.8 53.7 80.5
63 46.3 37.0 55.6





#7
Phenol-d6
Concen: 88.239 ng
RT: 7.112 min Scan# 701
Delta R.T. 0.003 min
Lab File: BG060996.D
Acq: 22 Apr 2024 18:06

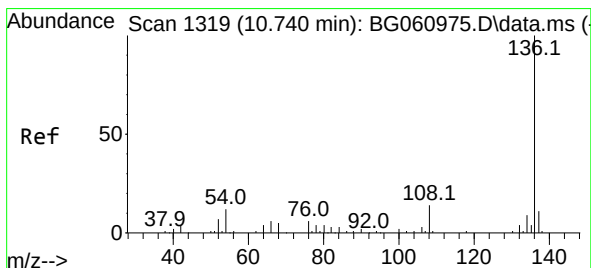
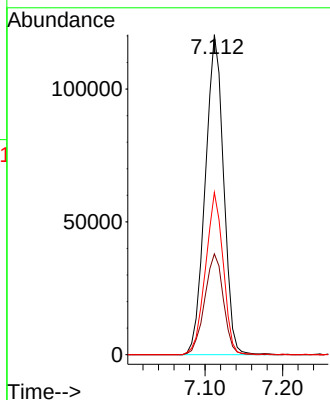
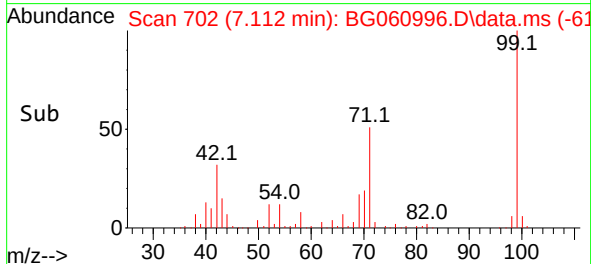
Instrument :
BNA_G
ClientSampleId :
SP-1C



Tgt Ion: 99 Resp: 197490
Ion Ratio Lower Upper
99 100
42 31.5 27.2 40.8
71 50.7 38.8 58.2

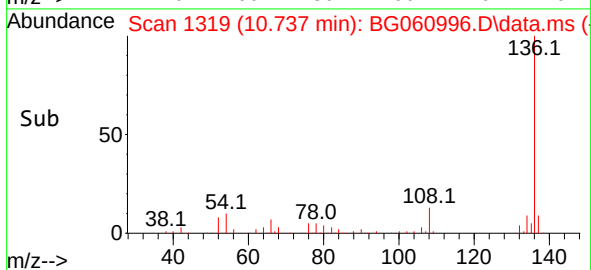
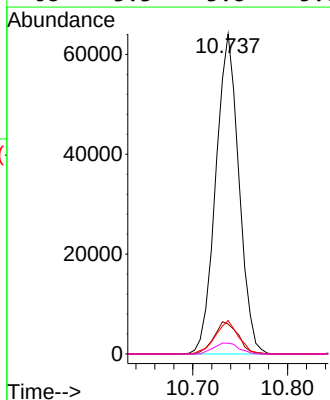
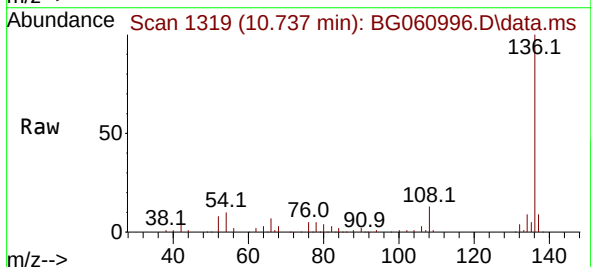
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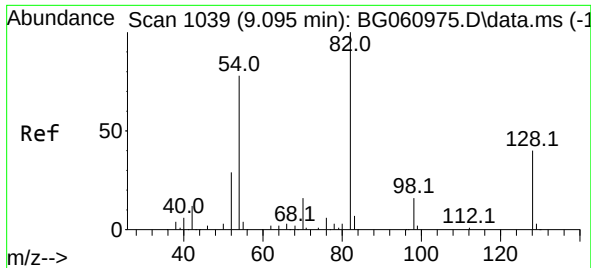
Reviewed By :Yogesh Patel 04/24/2024
Supervised By :mohammad ahmed 04/24/2024



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.737 min Scan# 1319
Delta R.T. -0.003 min
Lab File: BG060996.D
Acq: 22 Apr 2024 18:06

Tgt Ion:136 Resp: 108744
Ion Ratio Lower Upper
136 100
137 9.3 8.5 12.7
54 10.4 9.4 14.0
68 3.3 3.8 5.6#





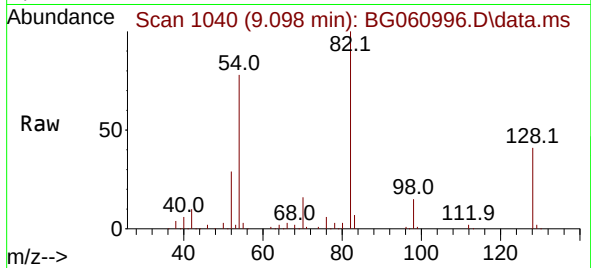
#23
Nitrobenzene-d5
Concen: 61.602 ng
RT: 9.098 min Scan# 1040
Delta R.T. 0.003 min
Lab File: BG060996.D
Acq: 22 Apr 2024 18:06

Instrument :

BNA_G

ClientSampleId :

SP-1C



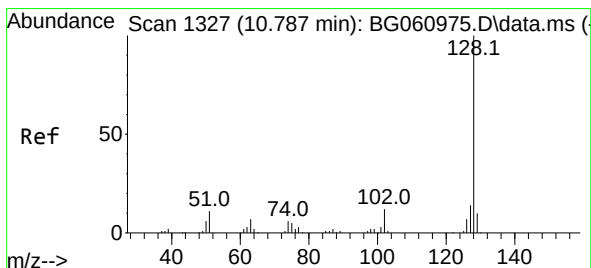
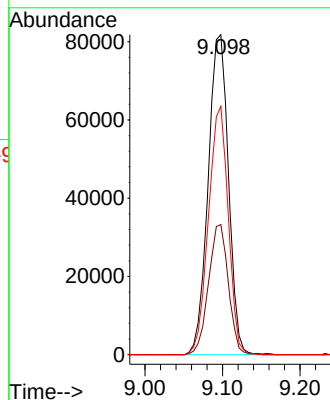
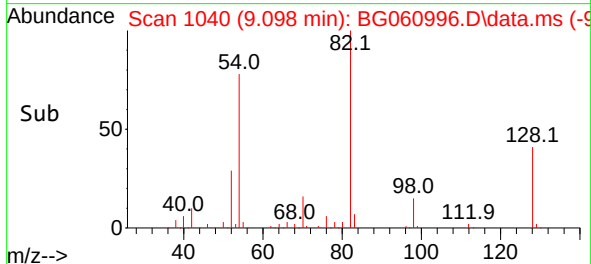
Tgt Ion: 82 Resp: 149099
Ion Ratio Lower Upper
82 100
128 40.7 32.1 48.1
54 77.6 62.3 93.5

Manual Integrations

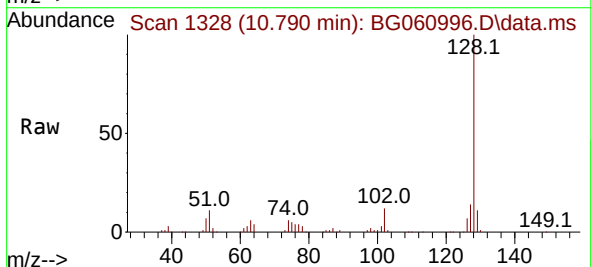
APPROVED

Reviewed By :Yogesh Patel 04/24/2024

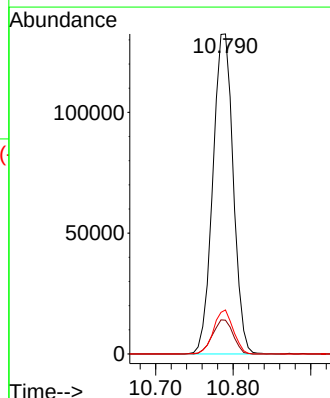
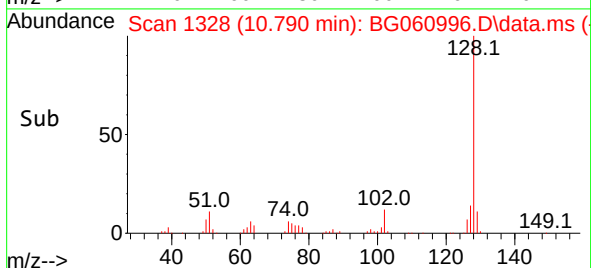
Supervised By :mohammad ahmed 04/24/2024

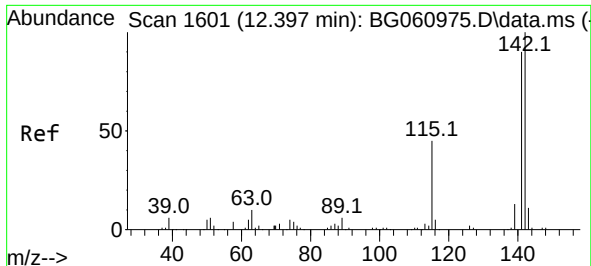


#31
Naphthalene
Concen: 40.677 ng
RT: 10.790 min Scan# 1328
Delta R.T. 0.003 min
Lab File: BG060996.D
Acq: 22 Apr 2024 18:06



Tgt Ion:128 Resp: 242169
Ion Ratio Lower Upper
128 100
129 10.5 8.2 12.4
127 13.7 11.4 17.2





#37
2-Methylnaphthalene
Concen: 13.697 ng
RT: 12.394 min Scan# 1601
Delta R.T. -0.002 min
Lab File: BG060996.D
Acq: 22 Apr 2024 18:06

Instrument :

BNA_G

ClientSampleId :

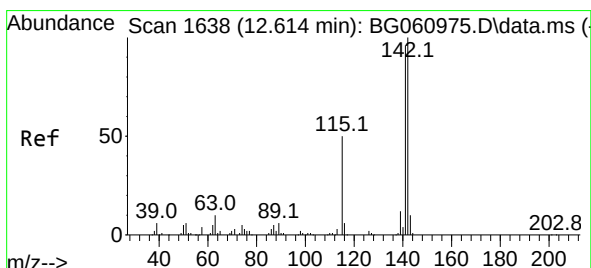
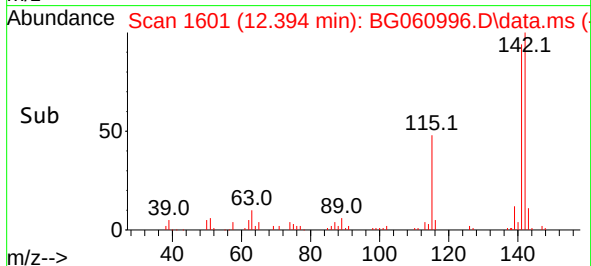
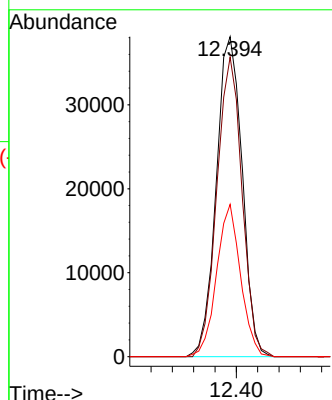
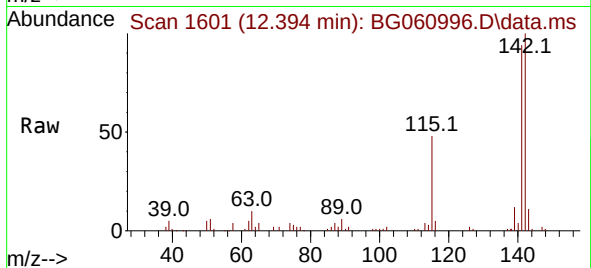
SP-1C

Tgt Ion:142 Resp: 6411
Ion Ratio Lower Upper
142 100
141 93.6 72.2 108.4
115 47.6 35.9 53.9

Manual Integrations

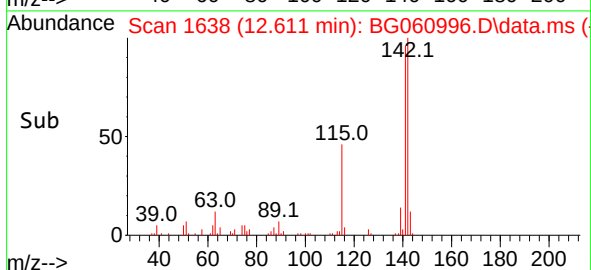
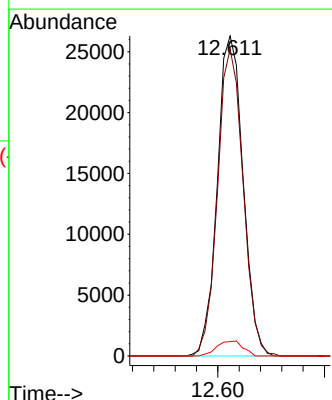
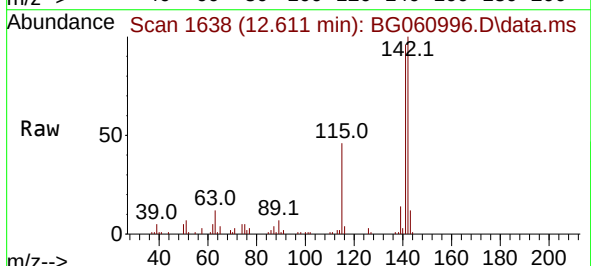
APPROVED

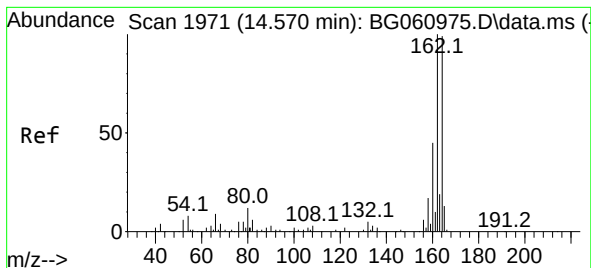
Reviewed By :Yogesh Patel 04/24/2024
Supervised By :mohammad ahmed 04/24/2024



#38
1-Methylnaphthalene
Concen: 10.076 ng
RT: 12.611 min Scan# 1638
Delta R.T. -0.003 min
Lab File: BG060996.D
Acq: 22 Apr 2024 18:06

Tgt Ion:142 Resp: 44012
Ion Ratio Lower Upper
142 100
141 95.9 76.8 115.2
116 4.5 4.4 6.6





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.568 min Scan# 1971

Delta R.T. -0.002 min

Lab File: BG060996.D

Acq: 22 Apr 2024 18:06

Instrument :

BNA_G

ClientSampleId :

SP-1C

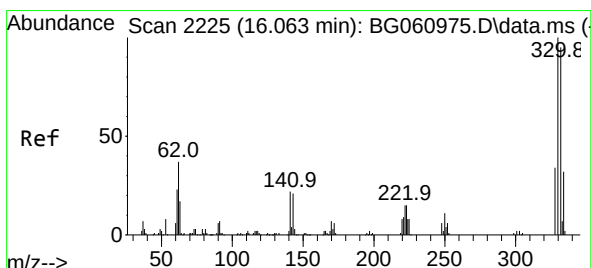
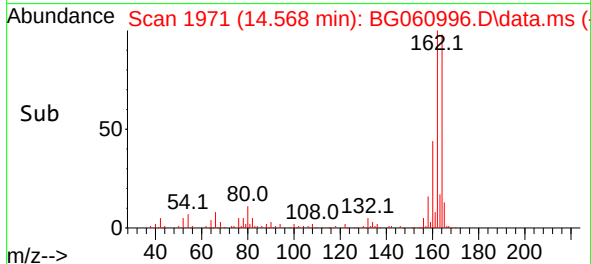
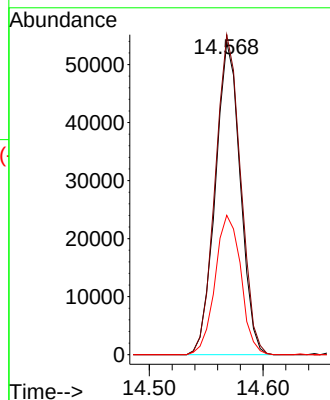
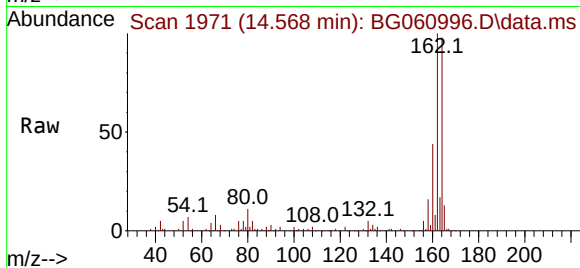
Tgt Ion:164	Resp:	81784
Ion Ratio	Lower	Upper
164	100	
162	102.3	81.2 121.8
160	44.6	36.2 54.2

Manual Integrations

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Supervised By :mohammad ahmed 04/24/2024



#42

2,4,6-Tribromophenol

Concen: 90.235 ng

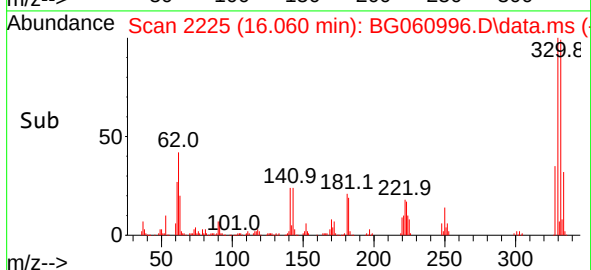
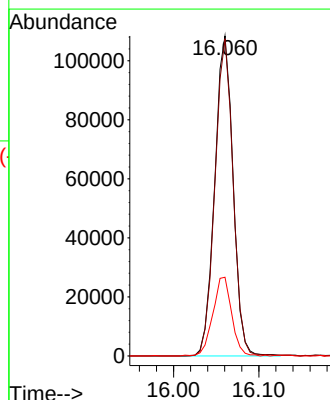
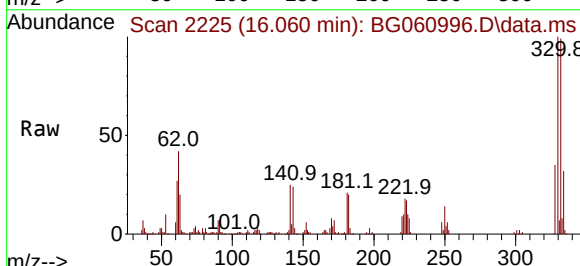
RT: 16.060 min Scan# 2225

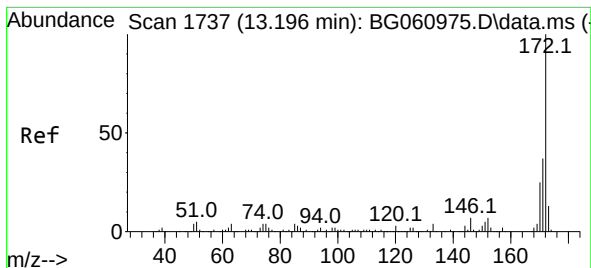
Delta R.T. -0.003 min

Lab File: BG060996.D

Acq: 22 Apr 2024 18:06

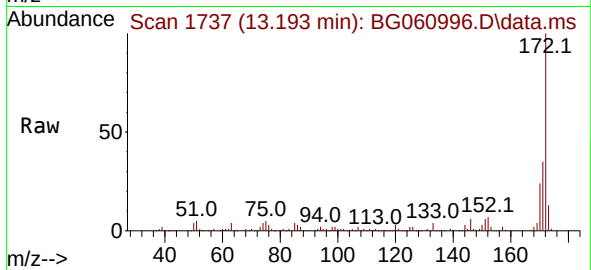
Tgt Ion:330	Resp:	162055
Ion Ratio	Lower	Upper
330	100	
332	98.0	77.1 115.7
141	25.3	20.6 31.0





#45
2-Fluorobiphenyl
Concen: 66.162 ng
RT: 13.193 min Scan# 1737
Delta R.T. -0.002 min
Lab File: BG060996.D
Acq: 22 Apr 2024 18:06

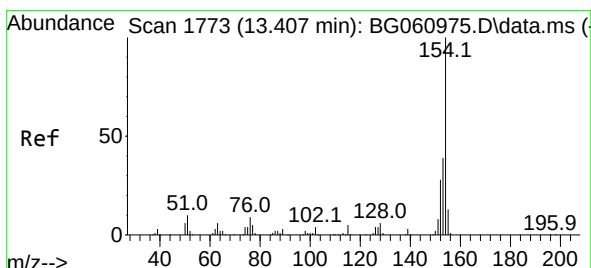
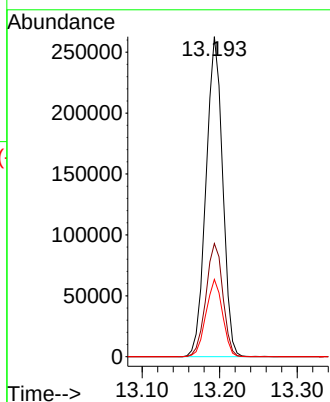
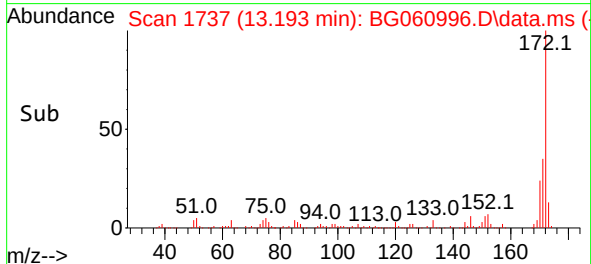
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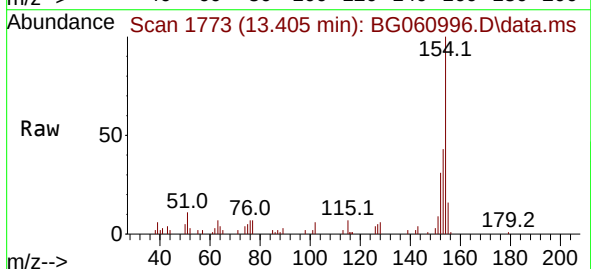
Tgt Ion:172 Resp: 39096
Ion Ratio Lower Upper
172 100
171 35.4 29.3 43.9
170 24.2 20.1 30.1

Manual Integrations
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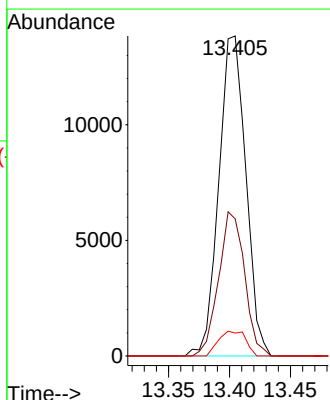
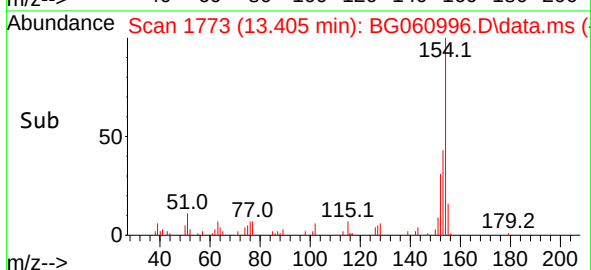
Reviewed By :Yogesh Patel 04/24/2024
Supervised By :mohammad ahmed 04/24/2024

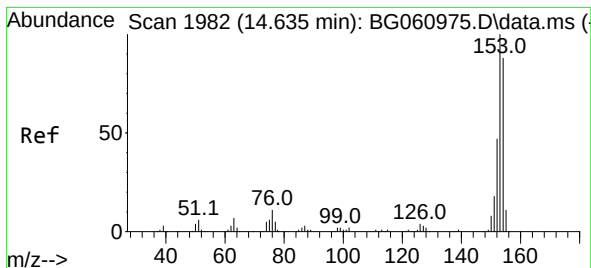


#46
1,1'-Biphenyl
Concen: 3.874 ng
RT: 13.405 min Scan# 1773
Delta R.T. -0.002 min
Lab File: BG060996.D
Acq: 22 Apr 2024 18:06



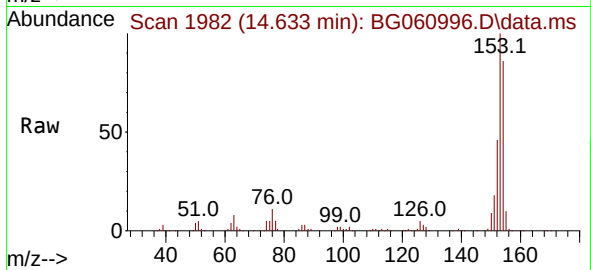
Tgt Ion:154 Resp: 21339
Ion Ratio Lower Upper
154 100
153 42.9 19.4 59.4
76 7.2 0.0 28.6





#52
Acenaphthene
Concen: 37.902 ng
RT: 14.633 min Scan# 1982
Delta R.T. -0.002 min
Lab File: BG060996.D
Acq: 22 Apr 2024 18:06

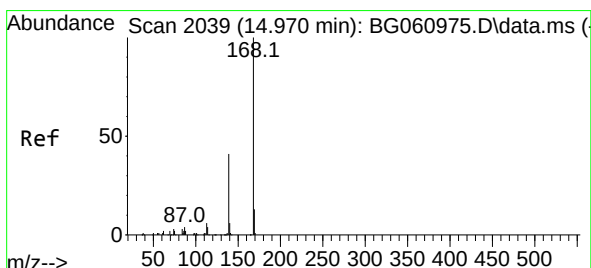
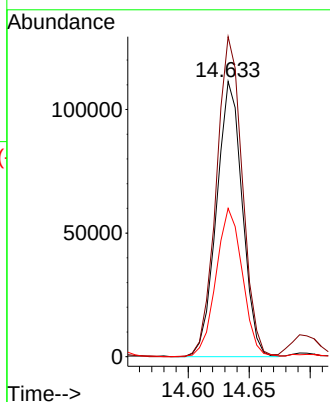
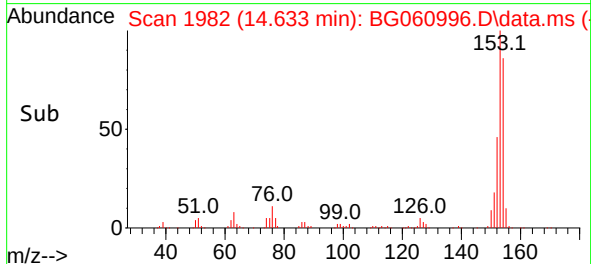
Instrument :
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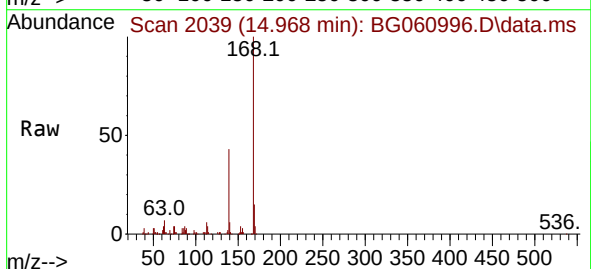
Tgt Ion:154 Resp: 163829
Ion Ratio Lower Upper
154 100
153 116.3 91.2 136.8
152 53.9 42.7 64.1

Manual Integrations
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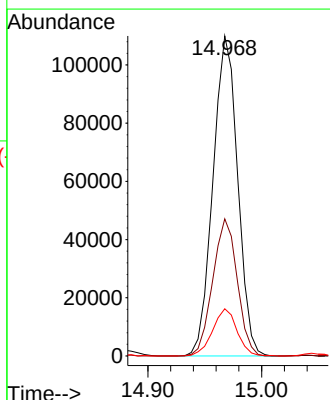
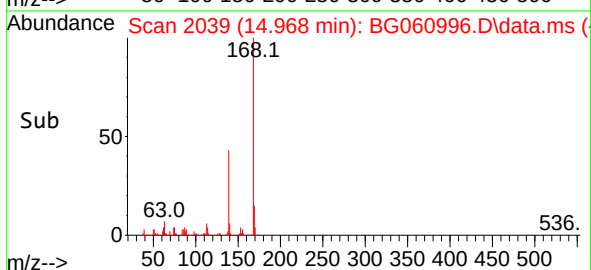
Reviewed By :Yogesh Patel 04/24/2024
Supervised By :mohammad ahmed 04/24/2024

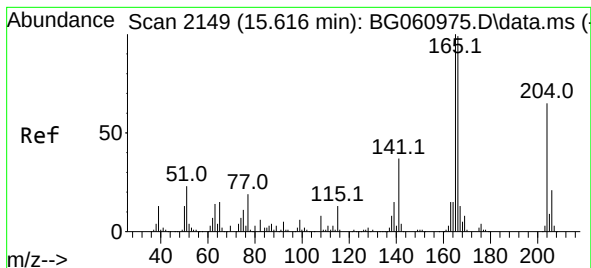


#55
Dibenzofuran
Concen: 22.217 ng
RT: 14.968 min Scan# 2039
Delta R.T. -0.002 min
Lab File: BG060996.D
Acq: 22 Apr 2024 18:06



Tgt Ion:168 Resp: 165830
Ion Ratio Lower Upper
168 100
139 42.9 32.4 48.6
169 14.8 10.6 15.8





#58

Fluorene

Concen: 30.495 ng

RT: 15.620 min Scan# 2149

Delta R.T. 0.003 min

Lab File: BG060996.D

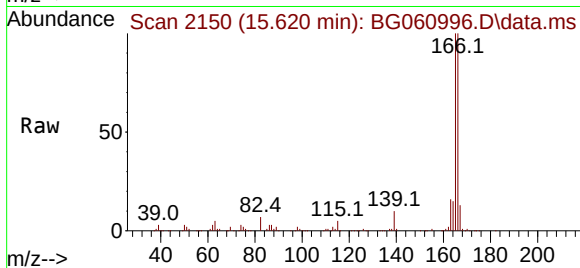
Acq: 22 Apr 2024 18:06

Instrument :

BNA_G

ClientSampleId :

SP-1C



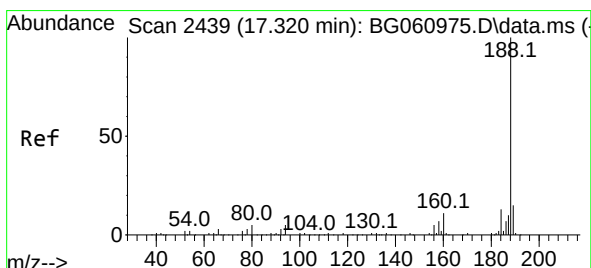
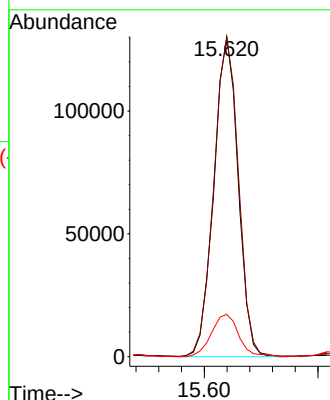
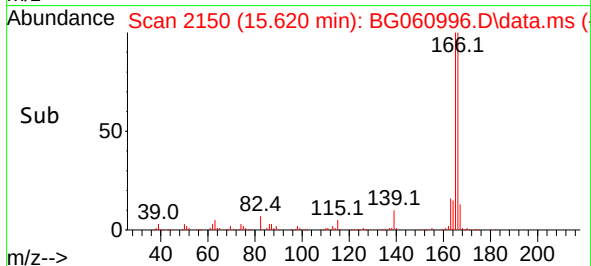
Tgt Ion:	166	Resp:	192120
Ion Ratio	Lower	Upper	
166	100		
165	99.7	80.9	121.3
167	13.2	10.5	15.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 04/24/2024

Supervised By :mohammad ahmed 04/24/2024



#64

Phenanthrene-d10

Concen: 20.000 ng

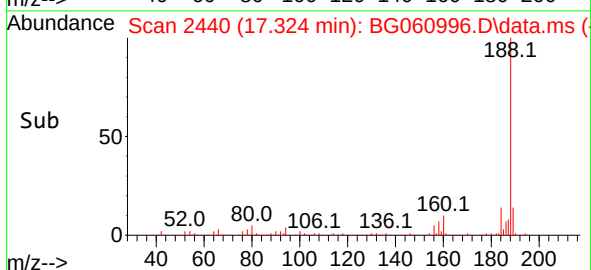
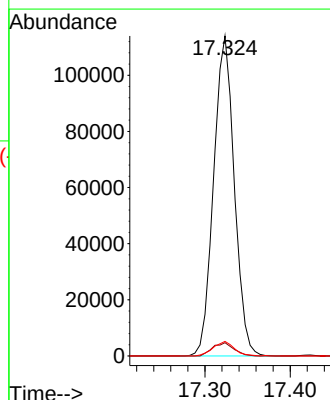
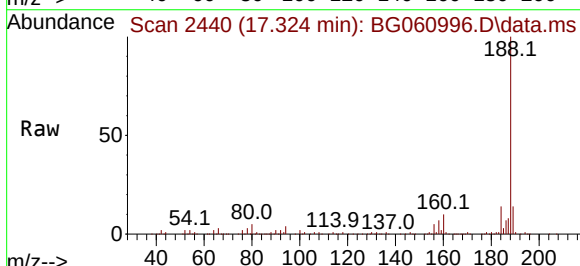
RT: 17.324 min Scan# 2440

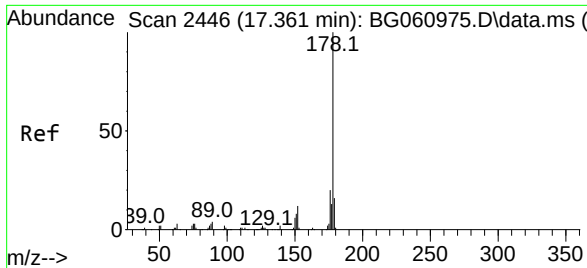
Delta R.T. 0.003 min

Lab File: BG060996.D

Acq: 22 Apr 2024 18:06

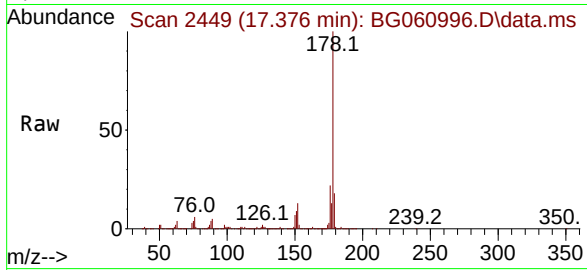
Tgt Ion:	188	Resp:	191784
Ion Ratio	Lower	Upper	
188	100		
94	4.1	4.1	6.1
80	4.5	4.0	6.0





#71
Phenanthrene
Concen: 306.573 ng
RT: 17.376 min Scan# 2446
Delta R.T. 0.015 min
Lab File: BG060996.D
Acq: 22 Apr 2024 18:06

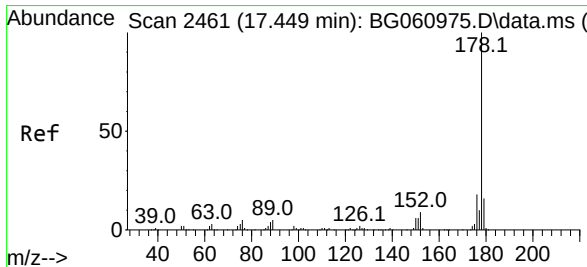
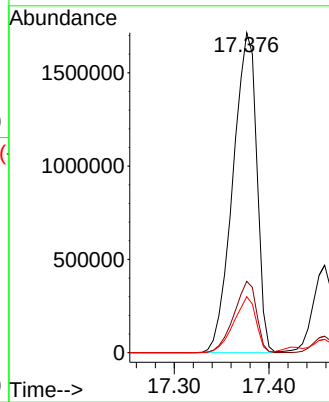
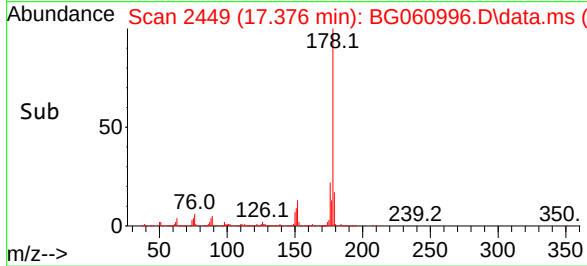
Instrument :
BNA_G
ClientSampleId :
SP-1C



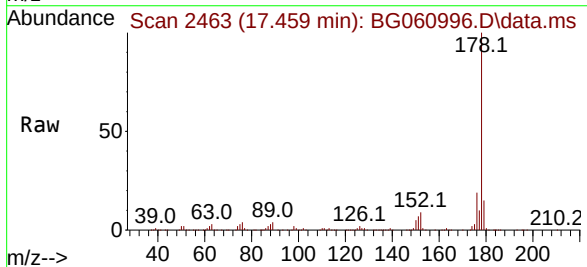
Tgt Ion:178 Resp: 300112
Ion Ratio Lower Upper
178 100
176 22.3 16.0 24.0
179 17.5 12.5 18.7

Manual Integrations
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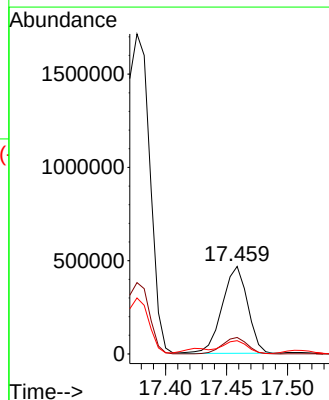
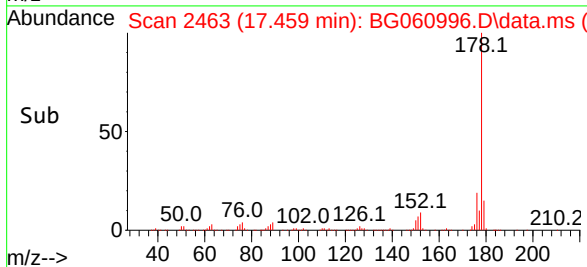
Reviewed By :Yogesh Patel 04/24/2024
Supervised By :mohammad ahmed 04/24/2024

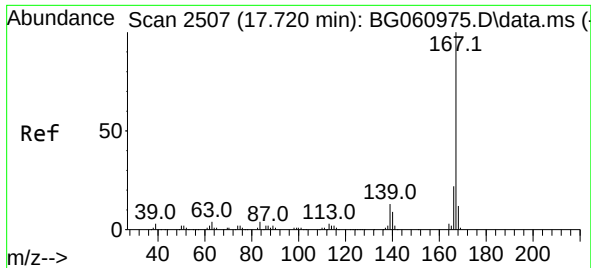


#72
Anthracene
Concen: 66.979 ng
RT: 17.459 min Scan# 2463
Delta R.T. 0.009 min
Lab File: BG060996.D
Acq: 22 Apr 2024 18:06



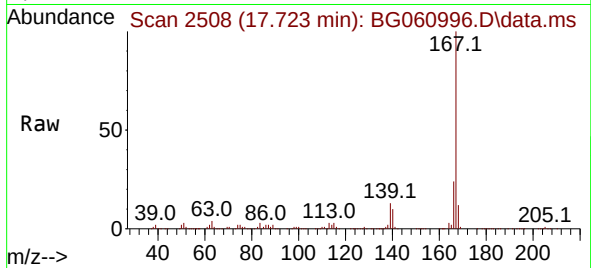
Tgt Ion:178 Resp: 675290
Ion Ratio Lower Upper
178 100
176 18.8 14.7 22.1
179 15.1 12.4 18.6





#73
 Carbazole
 Concen: 39.826 ng
 RT: 17.723 min Scan# 21
 Delta R.T. 0.003 min
 Lab File: BG060996.D
 Acq: 22 Apr 2024 18:06

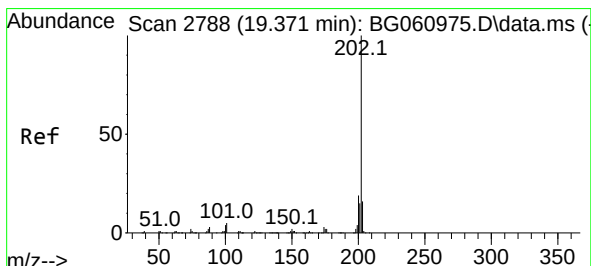
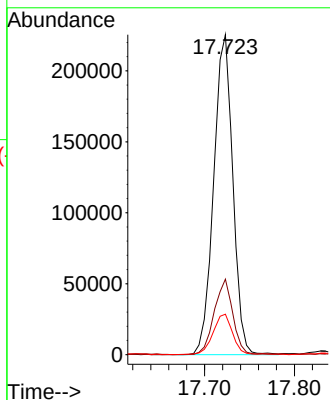
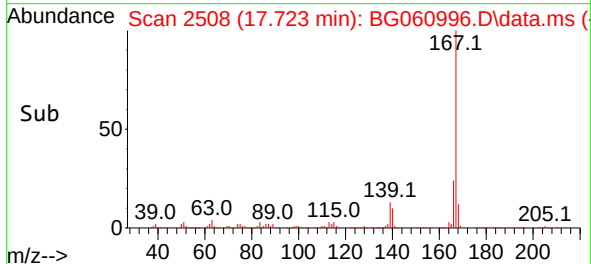
Instrument :
 BNA_G
 ClientSampleId :
 SP-1C



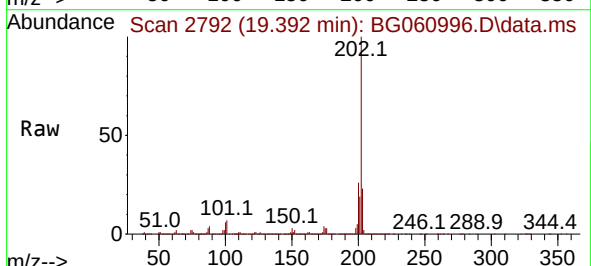
Tgt Ion:167 Resp: 333474
 Ion Ratio Lower Upper
 167 100
 166 23.6 17.8 26.8
 139 12.7 10.2 15.2

Manual Integrations
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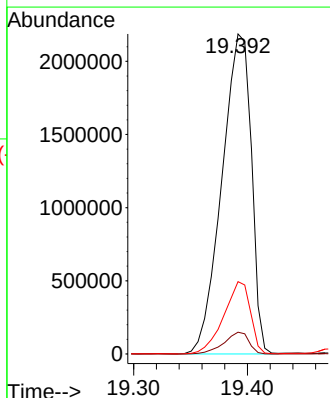
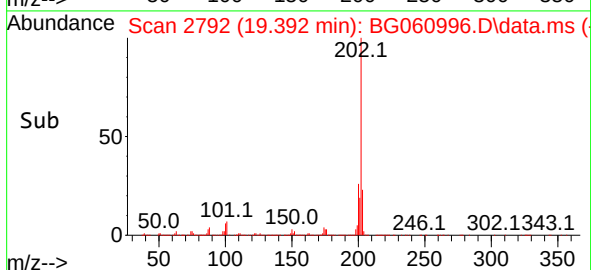
Reviewed By :Yogesh Patel 04/24/2024
 Supervised By :mohammad ahmed 04/24/2024

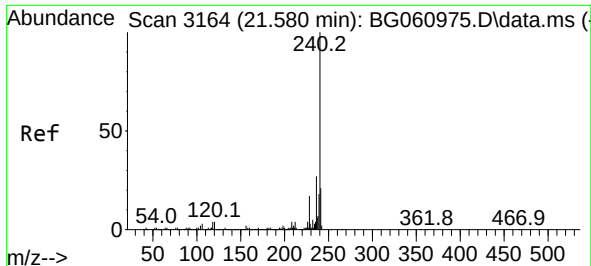


#75
 Fluoranthene
 Concen: 303.102 ng
 RT: 19.392 min Scan# 2792
 Delta R.T. 0.021 min
 Lab File: BG060996.D
 Acq: 22 Apr 2024 18:06



Tgt Ion:202 Resp: 3937796
 Ion Ratio Lower Upper
 202 100
 101 6.8 0.0 24.9
 203 22.6 0.0 36.2





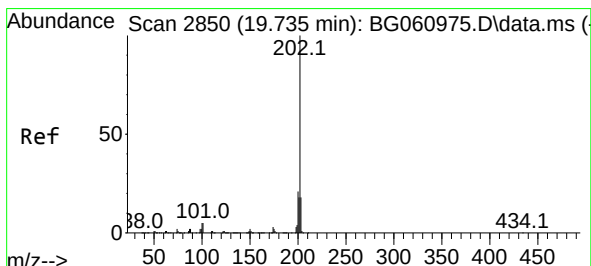
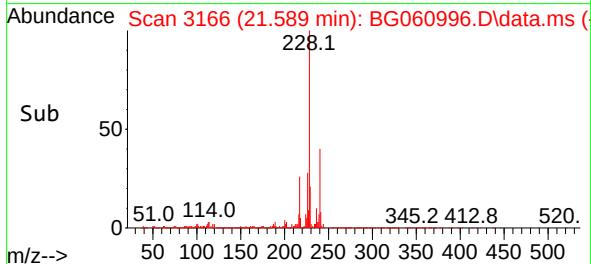
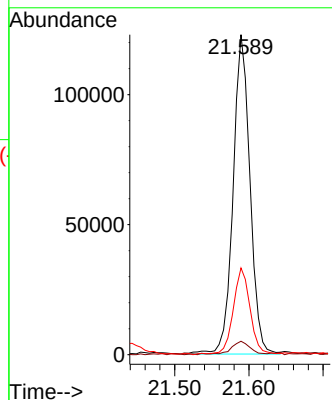
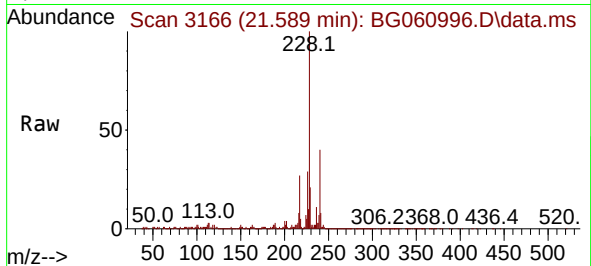
#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.589 min Scan# 3164
Delta R.T. 0.009 min
Lab File: BG060996.D
Acq: 22 Apr 2024 18:06

Instrument :
BNA_G
ClientSampleId :
SP-1C

Tgt Ion:240 Resp: 194152
Ion Ratio Lower Upper
240 100
120 4.2 3.0 4.6
236 27.1 21.8 32.6

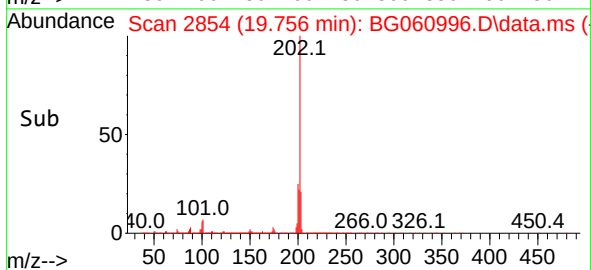
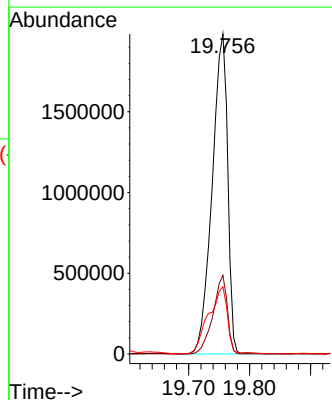
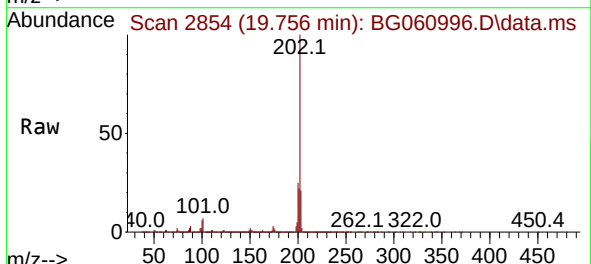
Manual Integrations
APPROVED

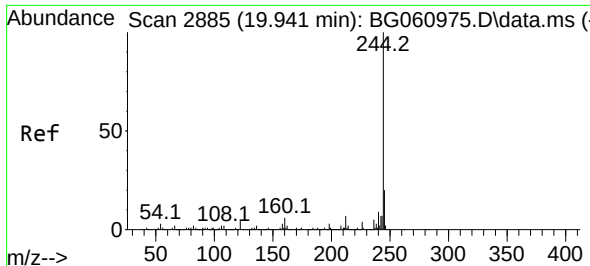
Reviewed By :Yogesh Patel 04/24/2024
Supervised By :mohammad ahmed 04/24/2024



#78
Pyrene
Concen: 265.063 ng
RT: 19.756 min Scan# 2854
Delta R.T. 0.021 min
Lab File: BG060996.D
Acq: 22 Apr 2024 18:06

Tgt Ion:202 Resp: 3504063
Ion Ratio Lower Upper
202 100
200 24.5 16.8 25.2
203 21.0 14.2 21.2





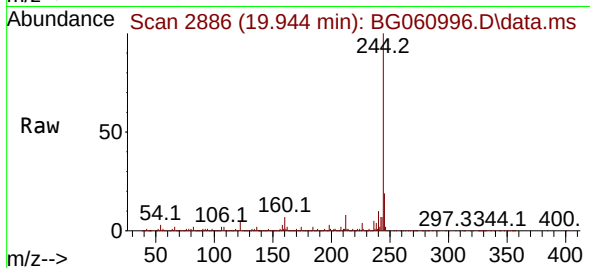
#79
 Terphenyl-d14
 Concen: 56.535 ng
 RT: 19.944 min Scan# 21
 Delta R.T. 0.003 min
 Lab File: BG060996.D
 Acq: 22 Apr 2024 18:06

Instrument :

BNA_G

ClientSampleId :

SP-1C



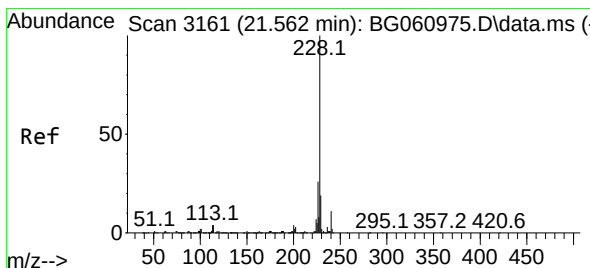
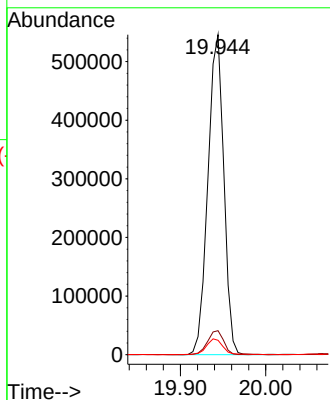
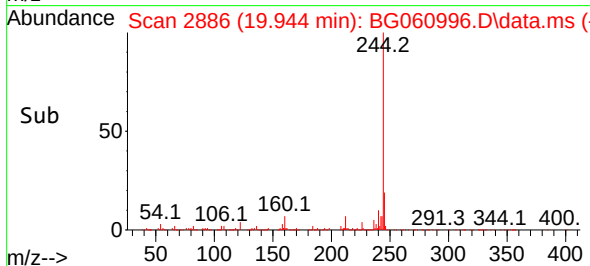
Tgt Ion:244 Resp: 70714
 Ion Ratio Lower Upper
 244 100
 212 7.5 5.9 8.9
 122 4.5 4.2 6.2

Manual Integrations

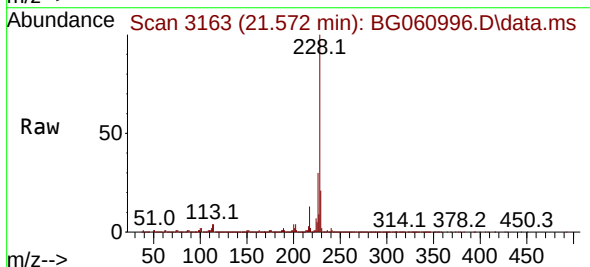
APPROVED

Reviewed By :Yogesh Patel 04/24/2024

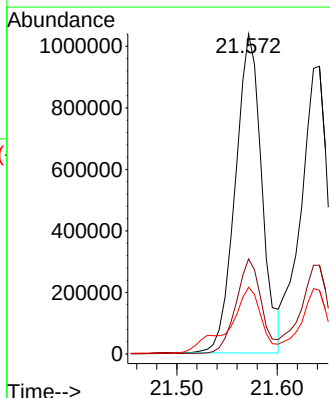
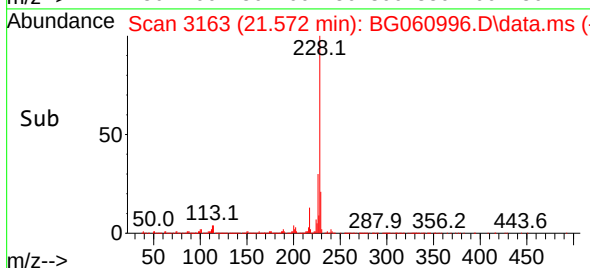
Supervised By :mohammad ahmed 04/24/2024

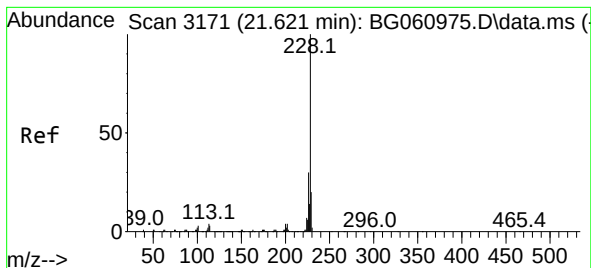


#81
 Benzo(a)anthracene
 Concen: 139.486 ng
 RT: 21.572 min Scan# 3163
 Delta R.T. 0.009 min
 Lab File: BG060996.D
 Acq: 22 Apr 2024 18:06



Tgt Ion:228 Resp: 1903991
 Ion Ratio Lower Upper
 228 100
 226 29.7 21.0 31.4
 229 20.9 15.0 22.4





#83

Chrysene

Concen: 132.523 ng

RT: 21.642 min Scan# 3171

Delta R.T. 0.021 min

Lab File: BG060996.D

Acq: 22 Apr 2024 18:06

Instrument :

BNA_G

ClientSampleId :

SP-1C

Tgt Ion:228 Resp: 172226

Ion Ratio Lower Upper

228 100

226 30.9 24.2 36.2

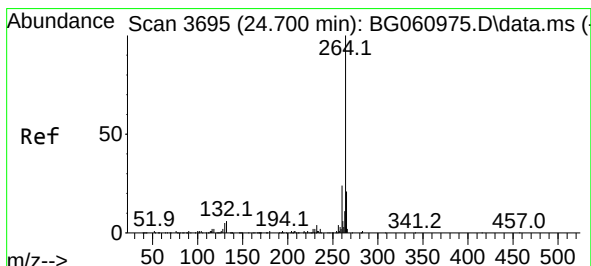
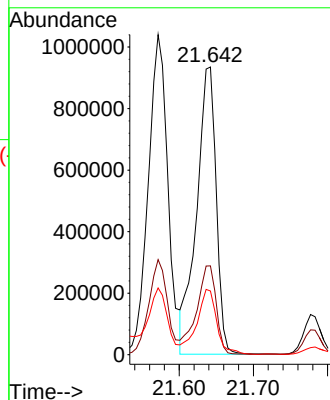
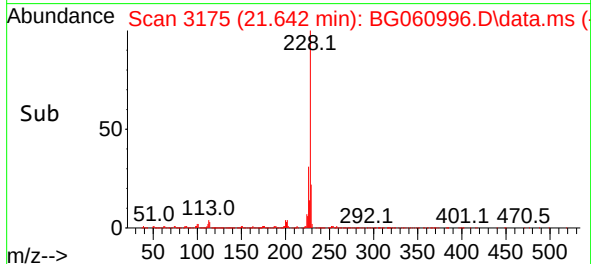
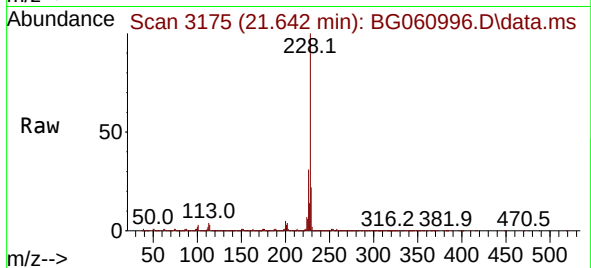
229 22.1 15.7 23.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 04/24/2024

Supervised By :mohammad ahmed 04/24/2024



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.721 min Scan# 3699

Delta R.T. 0.021 min

Lab File: BG060996.D

Acq: 22 Apr 2024 18:06

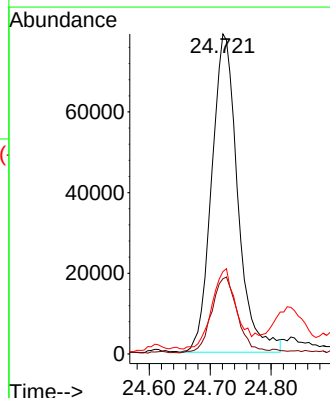
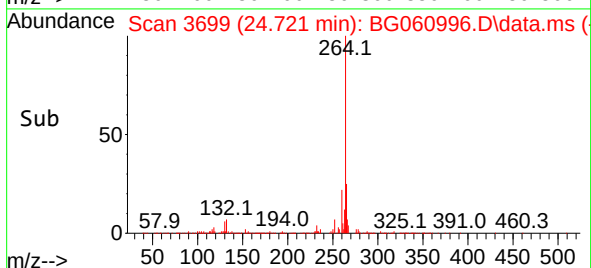
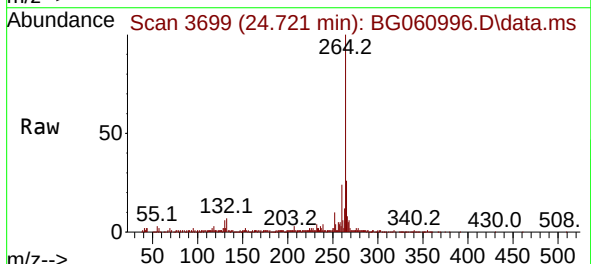
Tgt Ion:264 Resp: 234219

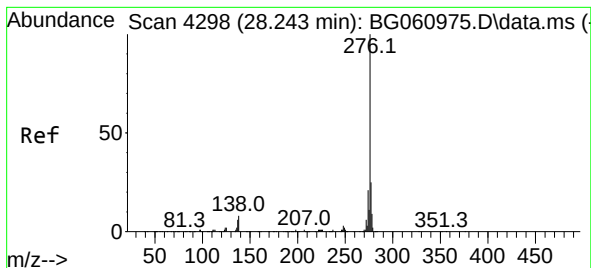
Ion Ratio Lower Upper

264 100

260 23.5 19.4 29.2

265 25.8 17.0 25.4#





#87

Indeno(1,2,3-cd)pyrene

Concen: 50.496 ng

RT: 28.281 min Scan# 41

Delta R.T. 0.039 min

Lab File: BG060996.D

Acq: 22 Apr 2024 18:06

Instrument :

BNA_G

ClientSampleId :

SP-1C

Tgt Ion:276 Resp: 82045

Ion Ratio Lower Upper

276 100

138 3.7 5.3 7.9

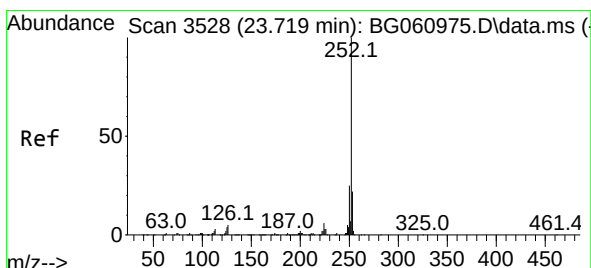
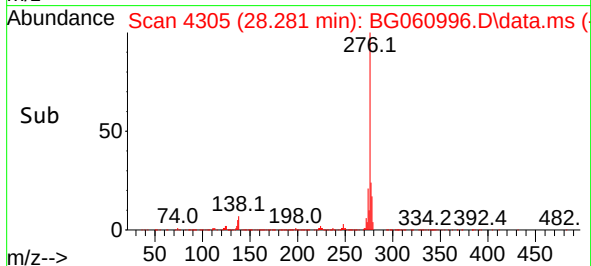
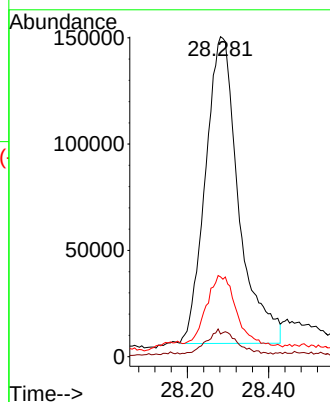
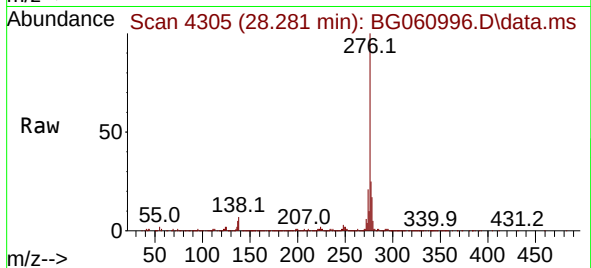
277 21.4 20.6 30.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 04/24/2024

Supervised By :mohammad ahmed 04/24/2024



#88

Benzo(b)fluoranthene

Concen: 163.543 ng

RT: 23.751 min Scan# 3534

Delta R.T. 0.033 min

Lab File: BG060996.D

Acq: 22 Apr 2024 18:06

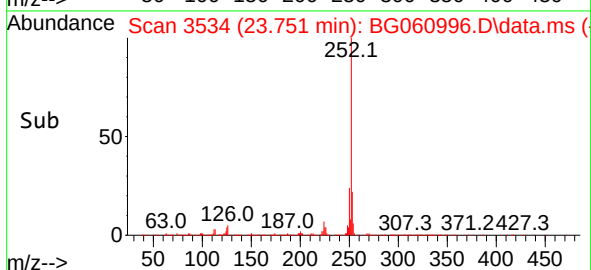
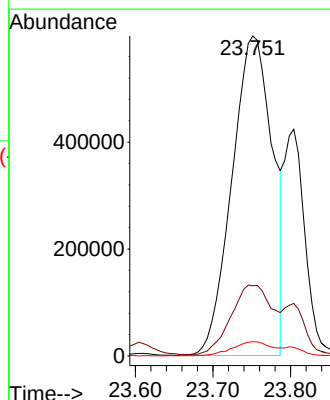
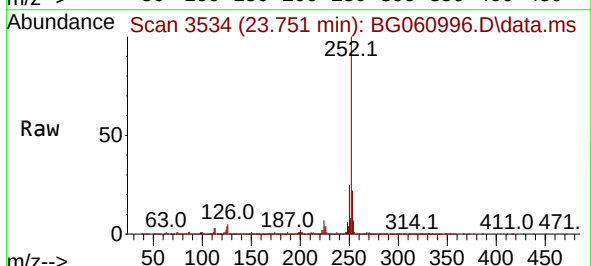
Tgt Ion:252 Resp: 2170719

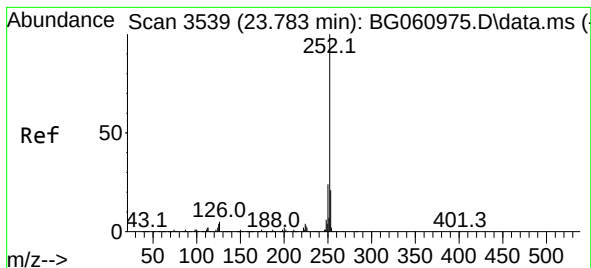
Ion Ratio Lower Upper

252 100

253 22.0 17.5 26.3

125 4.5 3.3 4.9





#89

Benzo(k)fluoranthene

Concen: 57.483 ng m

RT: 23.804 min Scan# 3

Delta R.T. 0.021 min

Lab File: BG060996.D

Acq: 22 Apr 2024 18:06

Instrument :

BNA_G

ClientSampleId :

SP-1C

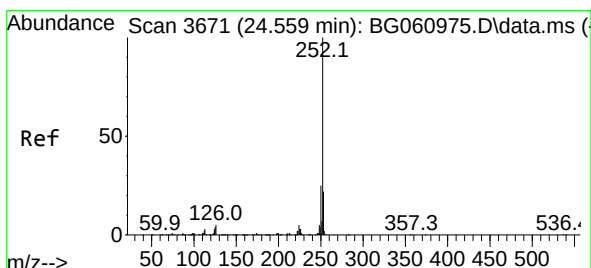
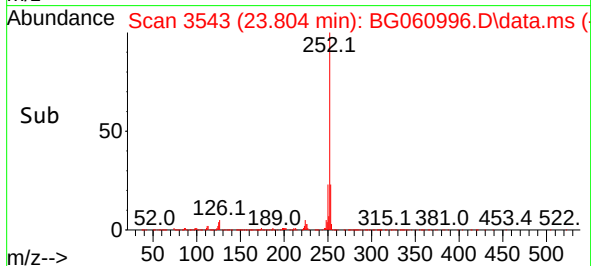
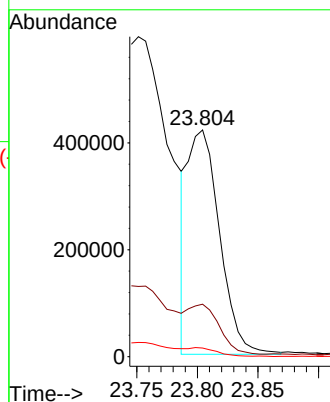
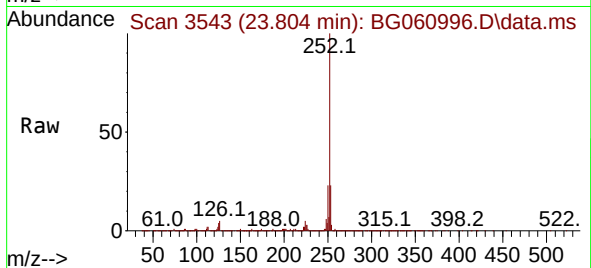
Tgt Ion:252 Resp: 770214
 Ion Ratio Lower Upper
 252 100
 253 23.1 16.6 25.0
 125 3.9 3.3 4.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 04/24/2024

Supervised By :mohammad ahmed 04/24/2024



#90

Benzo(a)pyrene

Concen: 120.404 ng

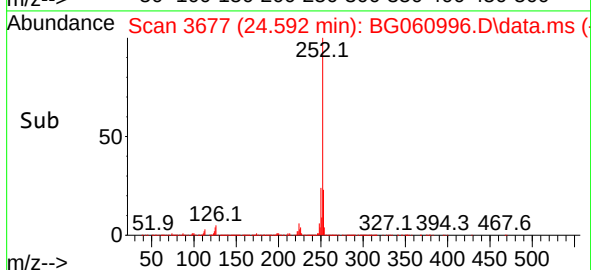
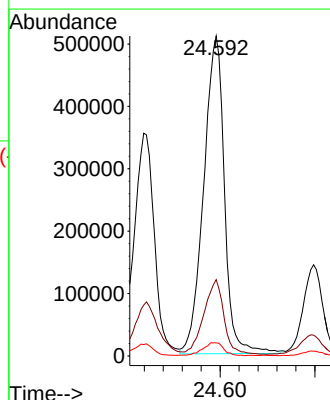
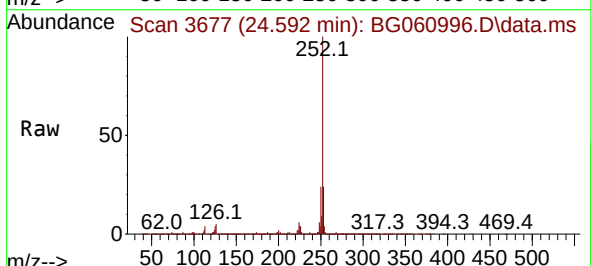
RT: 24.592 min Scan# 3677

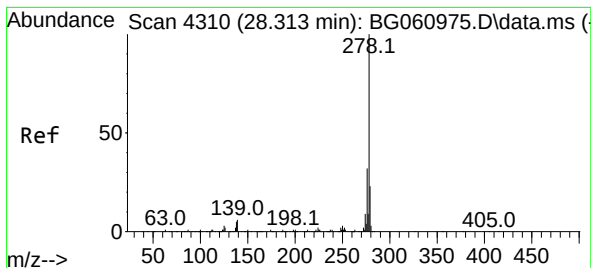
Delta R.T. 0.033 min

Lab File: BG060996.D

Acq: 22 Apr 2024 18:06

Tgt Ion:252 Resp: 1546872
 Ion Ratio Lower Upper
 252 100
 253 23.9 17.7 26.5
 125 4.1 3.6 5.4





#91

Dibenzo(a,h)anthracene

Concen: 14.323 ng m

RT: 28.322 min Scan# 41

Delta R.T. 0.009 min

Lab File: BG060996.D

Acq: 22 Apr 2024 18:06

Instrument :

BNA_G

ClientSampleId :

SP-1C

Tgt Ion:278 Resp: 19013

Ion Ratio Lower Upper

278 100

139 6.3 4.7 7.1

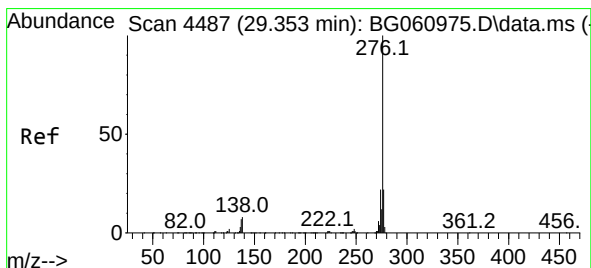
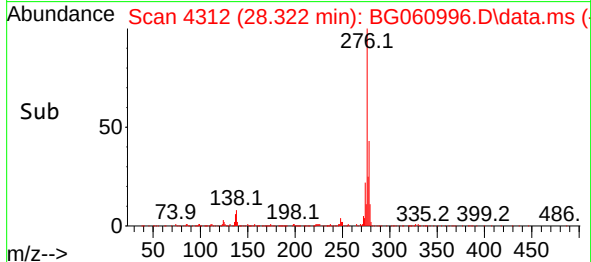
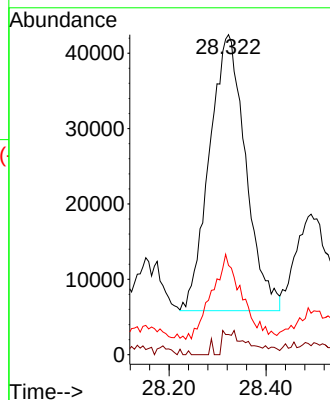
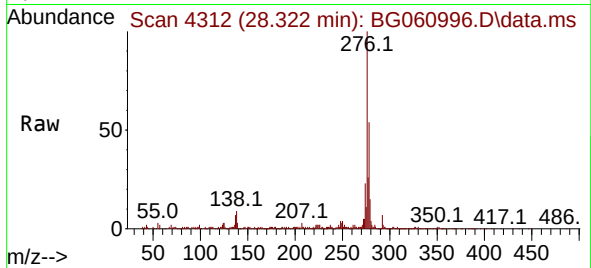
279 27.9 18.2 27.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 04/24/2024

Supervised By :mohammad ahmed 04/24/2024



#92

Benzo(g,h,i)perylene

Concen: 59.214 ng

RT: 29.392 min Scan# 4494

Delta R.T. 0.039 min

Lab File: BG060996.D

Acq: 22 Apr 2024 18:06

Tgt Ion:276 Resp: 779381

Ion Ratio Lower Upper

276 100

277 25.2 18.0 27.0

138 8.4 6.5 9.7

