

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM103123\
 Data File : BM042521.D
 Acq On : 31 Oct 2023 21:23
 Operator : MA/JU
 Sample : 04938-17
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 0-2(0-10)

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/01/2023
 Supervised By :mohammad ahmed 11/01/2023

Quant Time: Nov 01 01:50:30 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM103023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 31 02:55:18 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.922	152	78856	20.000	ng	0.00
21) Naphthalene-d8	10.739	136	297514	20.000	ng	-0.01
39) Acenaphthene-d10	14.574	164	180768	20.000	ng	0.00
64) Phenanthrene-d10	17.327	188	399690	20.000	ng	0.00
76) Chrysene-d12	21.503	240	363314	20.000	ng	0.00
86) Perylene-d12	23.927	264	413924	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.463	112	390013	79.821	ng	0.00
7) Phenol-d6	7.093	99	509202	75.988	ng	0.00
23) Nitrobenzene-d5	9.122	82	344272	53.943	ng	-0.01
42) 2,4,6-Tribromophenol	16.068	330	189477	80.284	ng	0.00
45) 2-Fluorobiphenyl	13.192	172	705154	52.490	ng	0.00
79) Terphenyl-d14	19.939	244	1098625	51.273	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.792	128	401746	26.136	ng	100
37) 2-Methylnaphthalene	12.398	142	214840	19.846	ng	99
38) 1-Methylnaphthalene	12.616	142	217658	21.361	ng	99
46) 1,1'-Biphenyl	13.410	154	43023	3.114	ng	99
49) Acenaphthylene	14.304	152	82691	4.925	ng	98
52) Acenaphthene	14.633	154	31946	3.135	ng	97
58) Fluorene	15.621	166	67452	5.032	ng	97
71) Phenanthrene	17.368	178	418723	20.047	ng	98
72) Anthracene	17.457	178	107656	5.204	ng	96
73) Carbazole	17.751	167	36508	2.169	ng	# 84
75) Fluoranthene	19.380	202	389164	15.861	ng	98
78) Pyrene	19.751	202	449364	18.012	ng	99
81) Benzo(a)anthracene	21.492	228	210309	9.098	ng	97
83) Chrysene	21.545	228	210317m	8.957	ng	
87) Indeno(1,2,3-cd)pyrene	26.444	276	116899	4.745	ng	# 93
88) Benzo(b)fluoranthene	23.180	252	243578m	10.563	ng	
89) Benzo(k)fluoranthene	23.227	252	70831m	2.756	ng	
90) Benzo(a)pyrene	23.815	252	183074	8.064	ng	97
91) Dibenzo(a,h)anthracene	26.456	278	32220	5.433	ng	# 88
92) Benzo(g,h,i)perylene	27.238	276	133398	6.144	ng	98

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

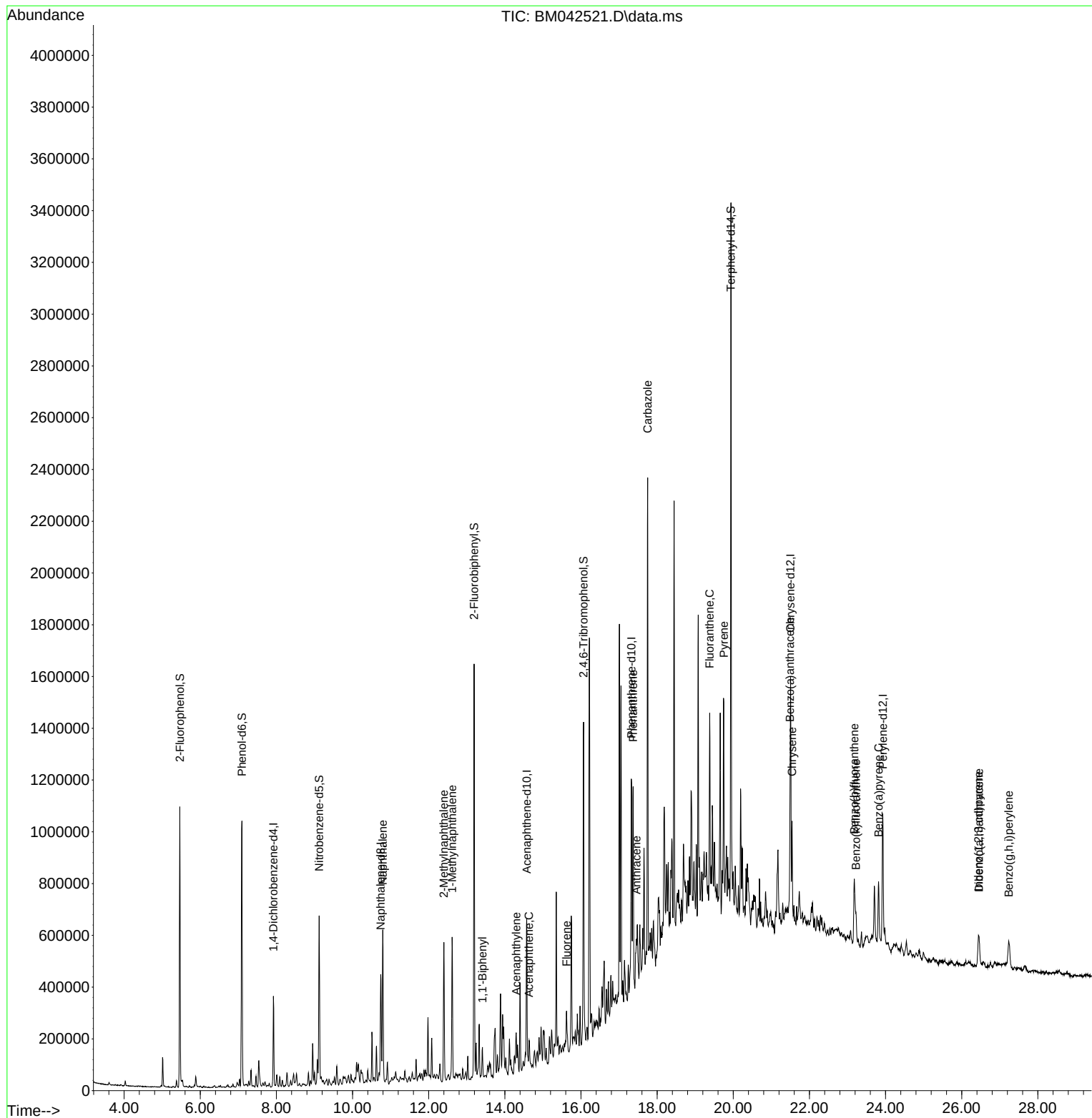
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM103123\
Data File : BM042521.D
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Operator : MA/JU
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ALS Vial : 10 Sample Multiplier: 1

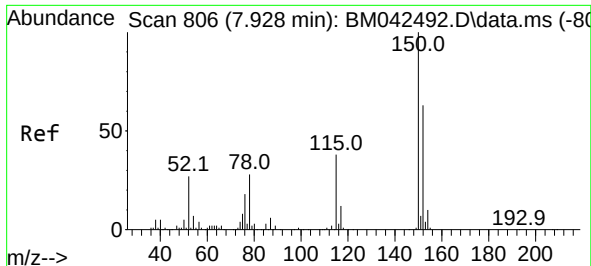
Instrument :
BNA_M
ClientSampleId :
0-2(0-10)

Manual Integrations
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Supervised By :mohammad ahmed 11/01/2023

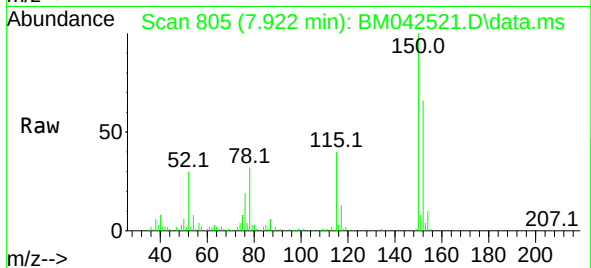
Quant Time: Nov 01 01:50:30 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM103023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 31 02:55:18 2023
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.922 min Scan# 806
Delta R.T. -0.006 min
Lab File: BM042521.D
Acq: 31 Oct 2023 21:23

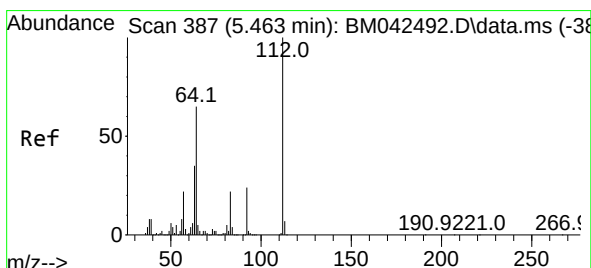
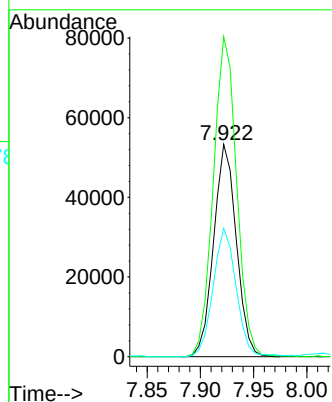
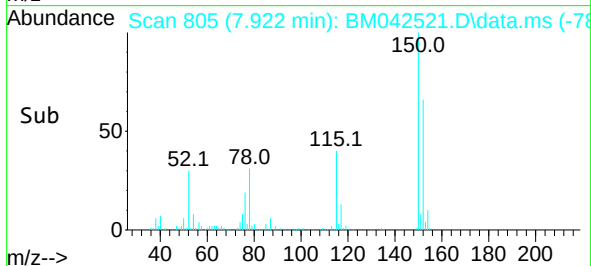
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BNA_M
ClientSampleId :
0-2(0-10)



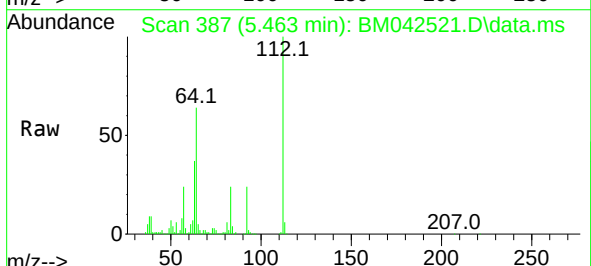
Tgt Ion:152 Resp: 78850
Ion Ratio Lower Upper
152 100
150 150.7 127.4 191.0
115 60.5 47.9 71.9

Manual Integrations
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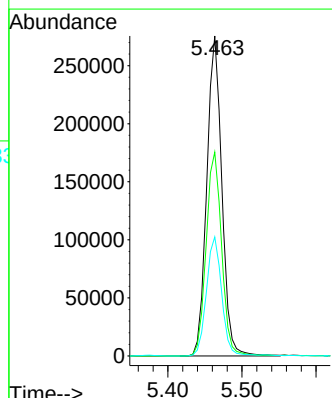
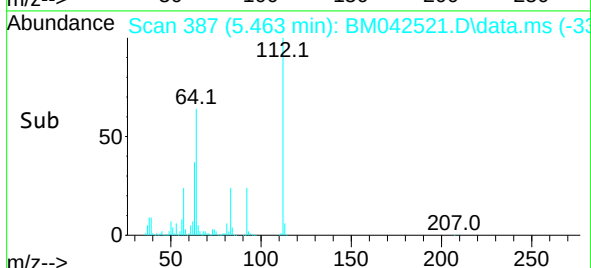
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023

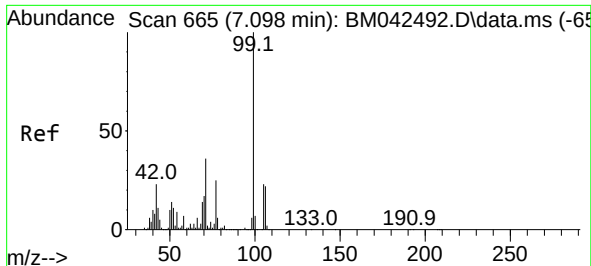


#5
2-Fluorophenol
Concen: 79.821 ng
RT: 5.463 min Scan# 387
Delta R.T. -0.000 min
Lab File: BM042521.D
Acq: 31 Oct 2023 21:23



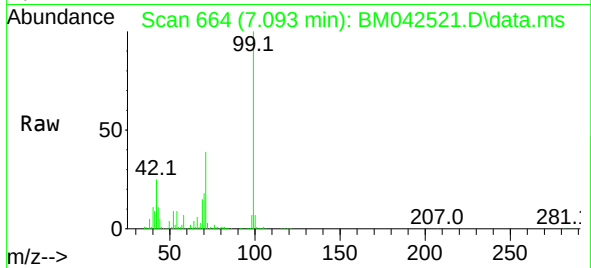
Tgt Ion:112 Resp: 390013
Ion Ratio Lower Upper
112 100
64 63.7 52.1 78.1
63 37.2 28.3 42.5





#7
Phenol-d6
Concen: 75.988 ng
RT: 7.093 min Scan# 60
Delta R.T. -0.006 min
Lab File: BM042521.D
Acq: 31 Oct 2023 21:23

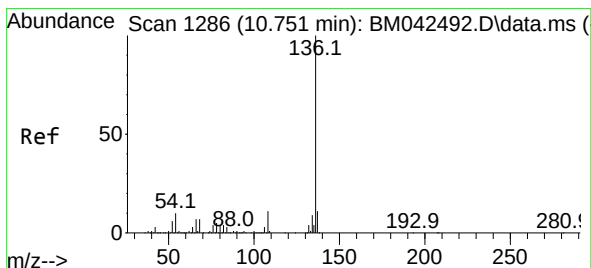
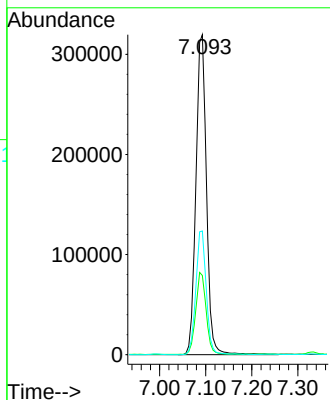
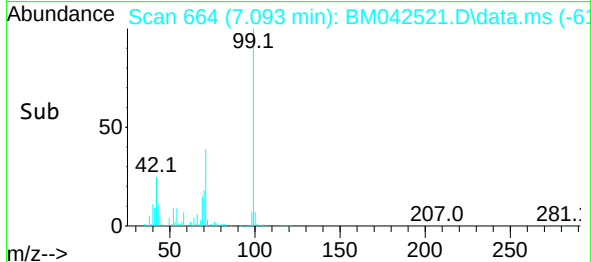
Instrument :
BNA_M
ClientSampleId :
0-2(0-10)



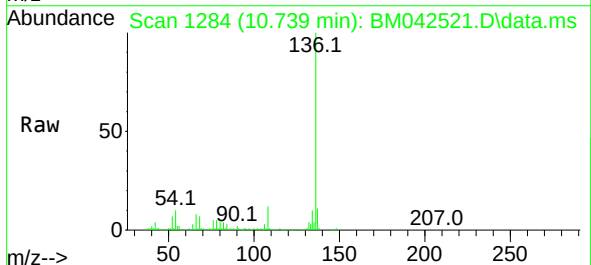
Tgt Ion: 99 Resp: 50920
Ion Ratio Lower Upper
99 100
42 24.7 18.7 28.1
71 38.6 29.1 43.7

Manual Integrations
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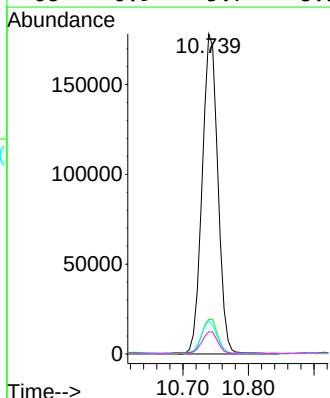
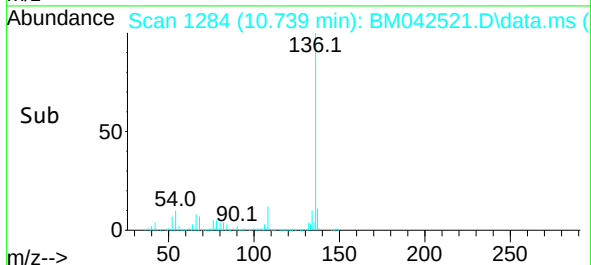
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023

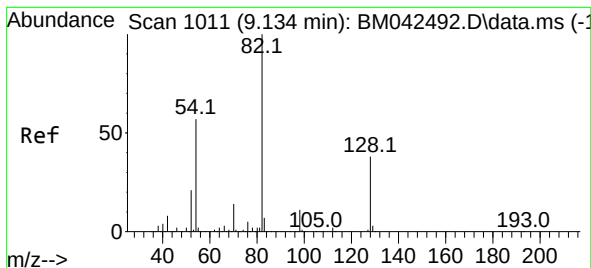


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.739 min Scan# 1284
Delta R.T. -0.012 min
Lab File: BM042521.D
Acq: 31 Oct 2023 21:23



Tgt Ion:136 Resp: 297514
Ion Ratio Lower Upper
136 100
137 10.8 9.0 13.6
54 10.4 8.0 12.0
68 6.9 5.7 8.5





#23

Nitrobenzene-d5

Concen: 53.943 ng

RT: 9.122 min Scan# 1009

Delta R.T. -0.012 min

Lab File: BM042521.D

Acq: 31 Oct 2023 21:23

Instrument :

BNA_M

ClientSampleId :

0-2(0-10)

Tgt Ion: 82 Resp: 34427

Ion Ratio Lower Upper

82 100

128 37.8 30.7 46.1

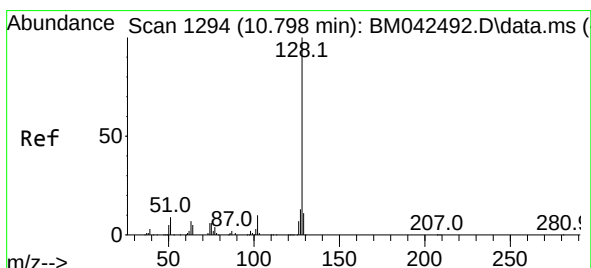
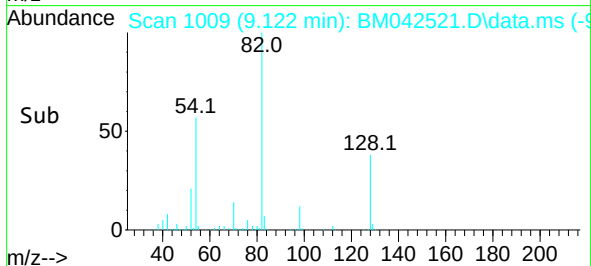
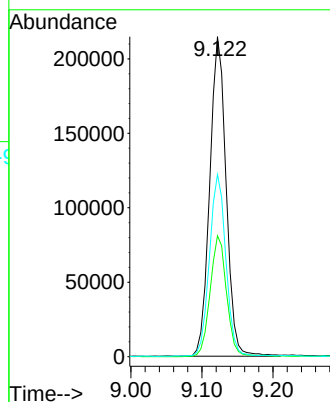
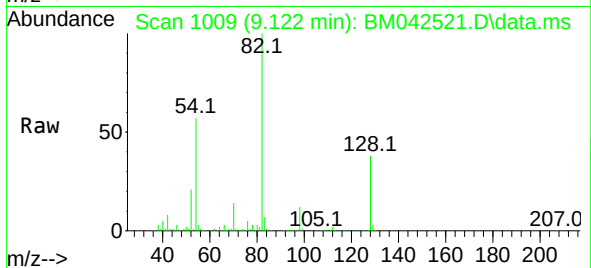
54 57.0 45.3 67.9

Manual Integrations

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Reviewed By :Yogesh Patel 11/01/2023

Supervised By :mohammad ahmed 11/01/2023



#31

Naphthalene

Concen: 26.136 ng

RT: 10.792 min Scan# 1293

Delta R.T. -0.006 min

Lab File: BM042521.D

Acq: 31 Oct 2023 21:23

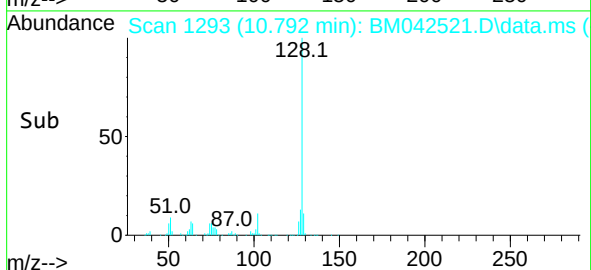
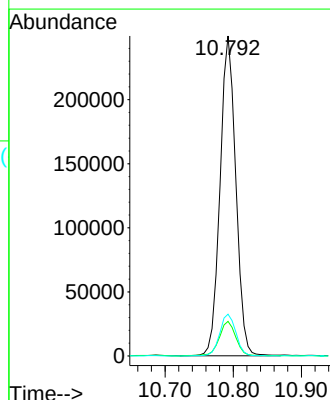
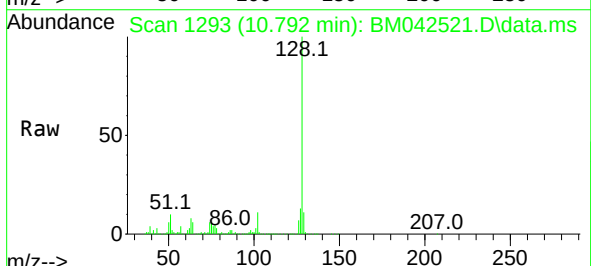
Tgt Ion:128 Resp: 401746

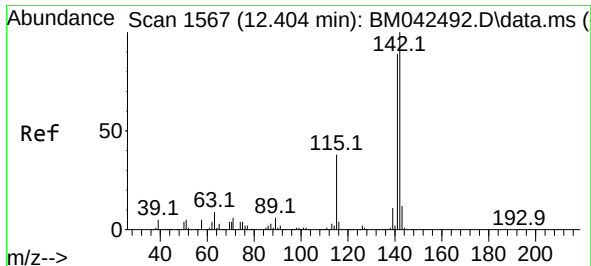
Ion Ratio Lower Upper

128 100

129 10.8 8.8 13.2

127 13.1 10.6 15.8





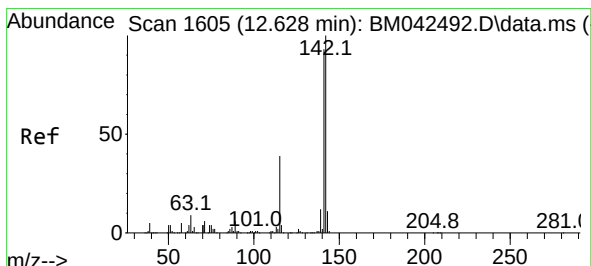
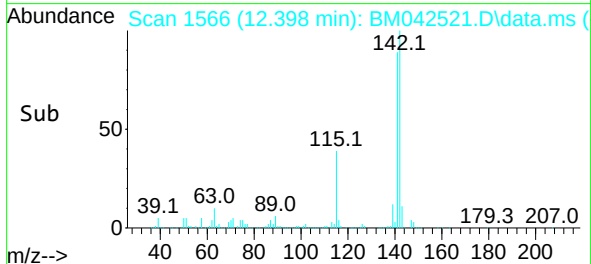
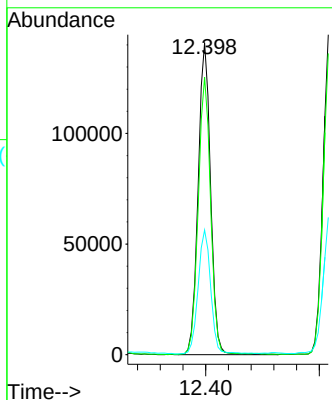
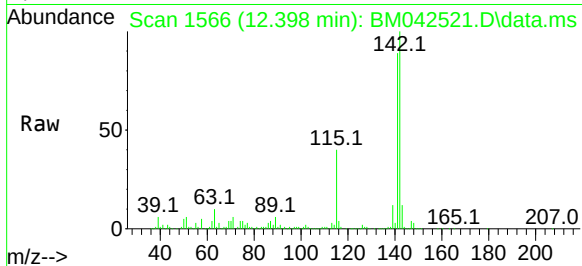
#37
2-Methylnaphthalene
Concen: 19.846 ng
RT: 12.398 min Scan# 11
Delta R.T. -0.006 min
Lab File: BM042521.D
Acq: 31 Oct 2023 21:23

Instrument :
BNA_M
ClientSampleId :
0-2(0-10)

Tgt Ion:142 Resp: 214840
Ion Ratio Lower Upper
142 100
141 88.9 70.9 106.3
115 39.9 30.2 45.2

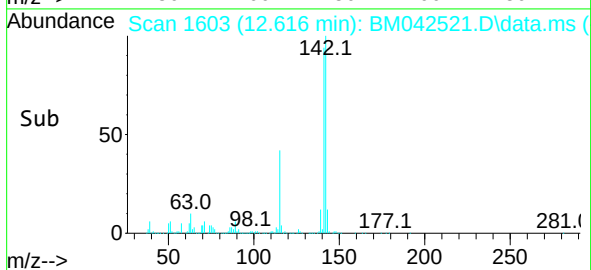
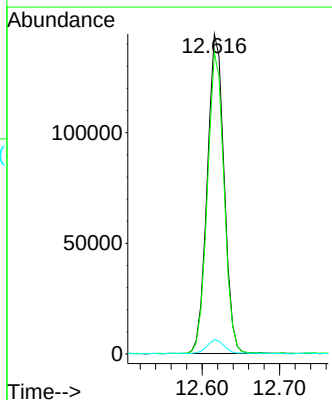
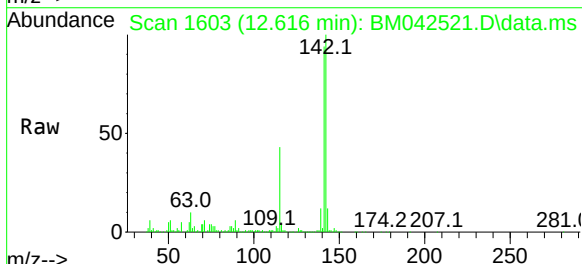
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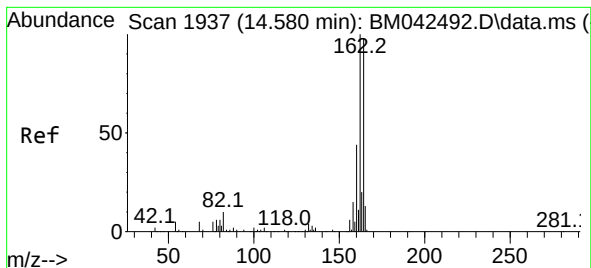
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#38
1-Methylnaphthalene
Concen: 21.361 ng
RT: 12.616 min Scan# 1603
Delta R.T. -0.012 min
Lab File: BM042521.D
Acq: 31 Oct 2023 21:23

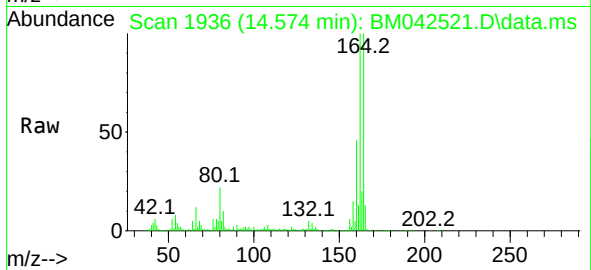
Tgt Ion:142 Resp: 217658
Ion Ratio Lower Upper
142 100
141 94.2 74.4 111.6
116 4.5 3.2 4.8





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.574 min Scan# 1936
Delta R.T. -0.006 min
Lab File: BM042521.D
Acq: 31 Oct 2023 21:23

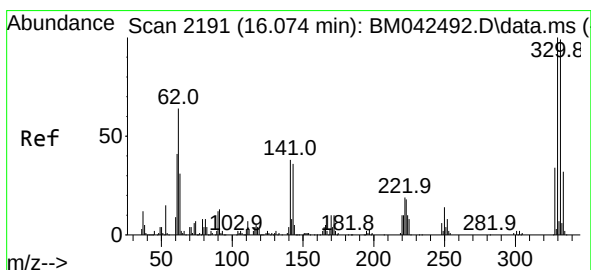
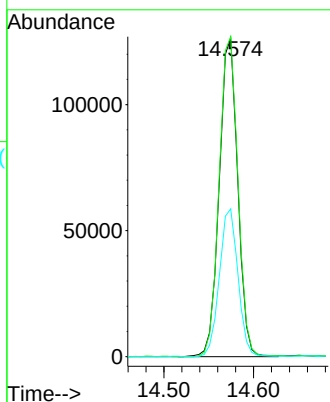
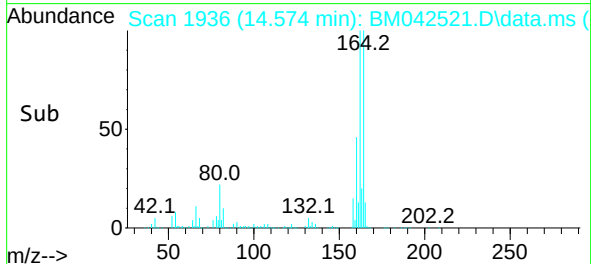
Instrument :
BNA_M
ClientSampleId :
0-2(0-10)



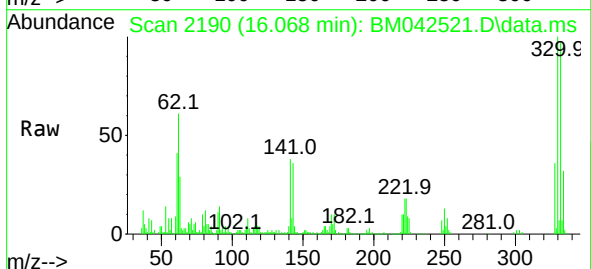
Tgt Ion:164 Resp: 180768
Ion Ratio Lower Upper
164 100
162 100.4 81.6 122.4
160 46.4 36.2 54.4

Manual Integrations
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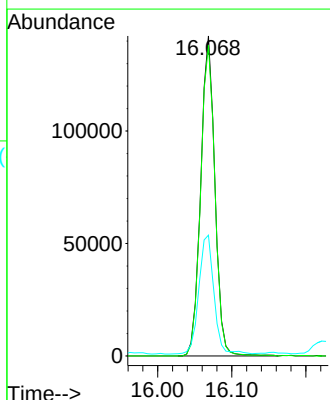
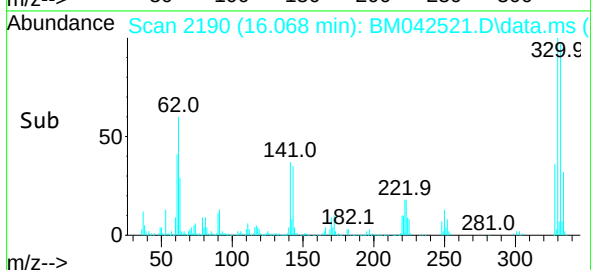
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023

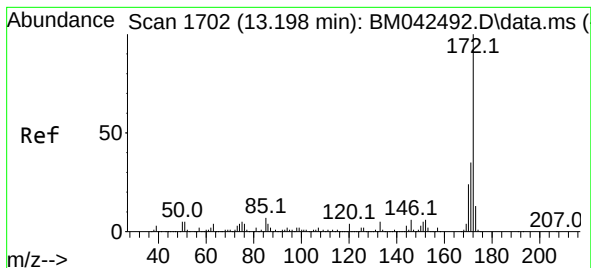


#42
2,4,6-Tribromophenol
Concen: 80.284 ng
RT: 16.068 min Scan# 2190
Delta R.T. -0.006 min
Lab File: BM042521.D
Acq: 31 Oct 2023 21:23



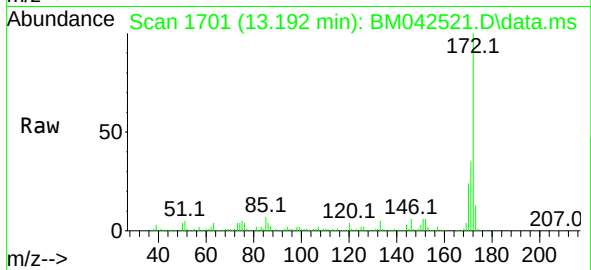
Tgt Ion:330 Resp: 189477
Ion Ratio Lower Upper
330 100
332 98.2 78.8 118.2
141 39.5 31.1 46.7





#45
2-Fluorobiphenyl
Concen: 52.490 ng
RT: 13.192 min Scan# 1702
Delta R.T. -0.006 min
Lab File: BM042521.D
Acq: 31 Oct 2023 21:23

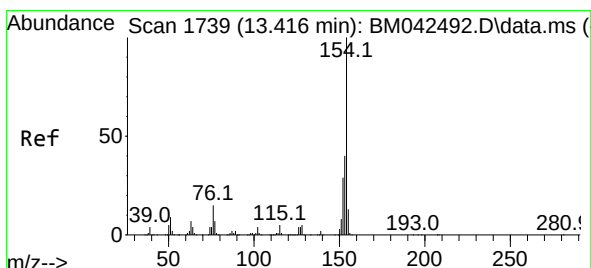
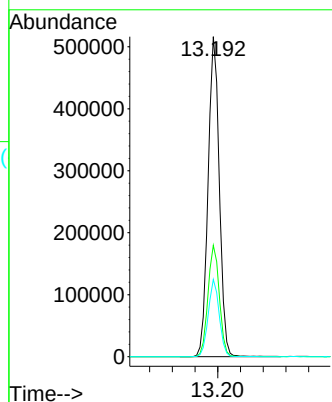
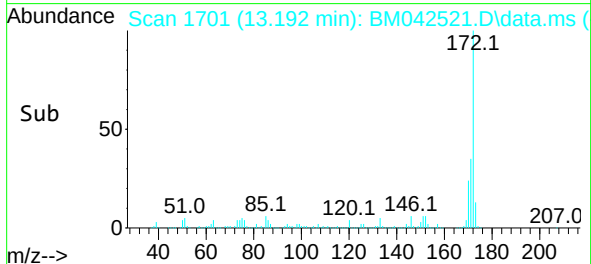
Instrument :
BNA_M
ClientSampleId :
0-2(0-10)



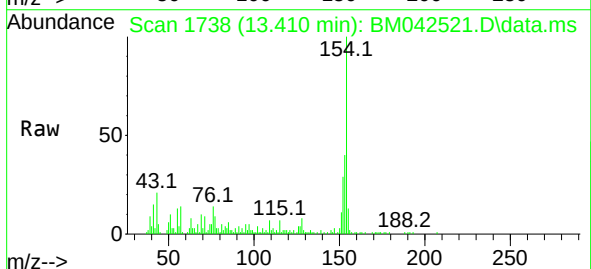
Tgt Ion:172 Resp: 705154
Ion Ratio Lower Upper
172 100
171 34.8 28.2 42.2
170 24.2 19.0 28.4

Manual Integrations
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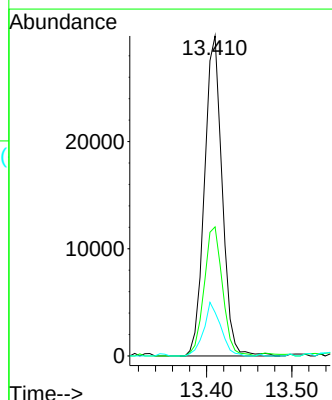
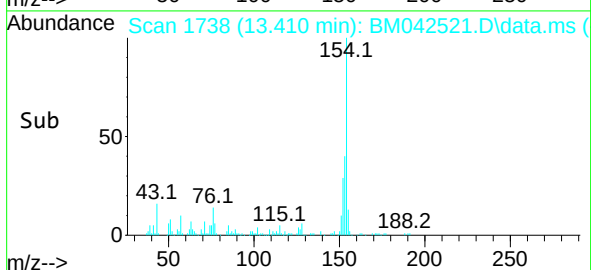
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023

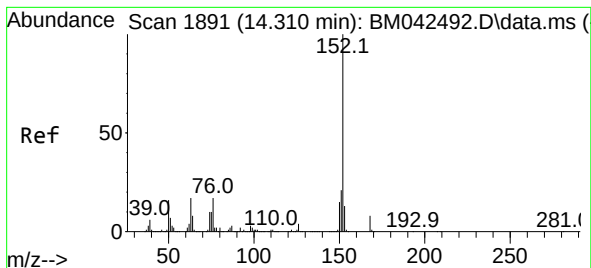


#46
1,1'-Biphenyl
Concen: 3.114 ng
RT: 13.410 min Scan# 1738
Delta R.T. -0.006 min
Lab File: BM042521.D
Acq: 31 Oct 2023 21:23



Tgt Ion:154 Resp: 43023
Ion Ratio Lower Upper
154 100
153 40.4 20.3 60.3
76 13.6 0.0 35.0





#49

Acenaphthylene

Concen: 4.925 ng

RT: 14.304 min Scan# 11

Delta R.T. -0.006 min

Lab File: BM042521.D

Acq: 31 Oct 2023 21:23

Instrument :

BNA_M

ClientSampleId :

0-2(0-10)

Tgt Ion:152 Resp: 8269

Ion Ratio Lower Upper

152 100

151 20.7 16.4 24.6

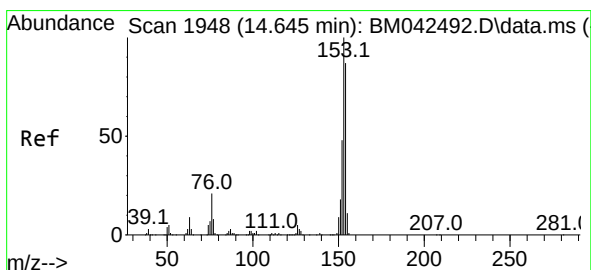
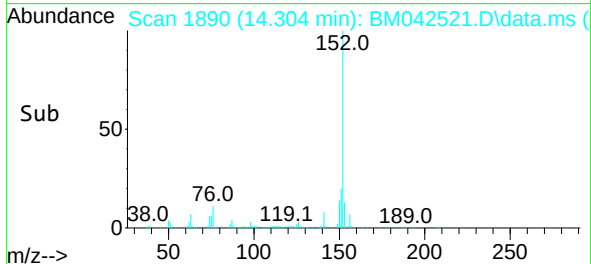
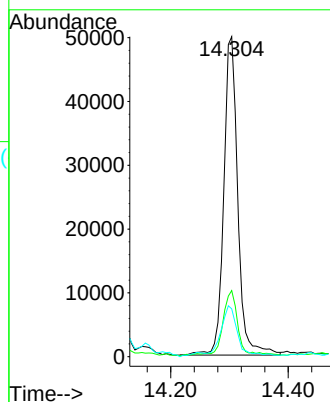
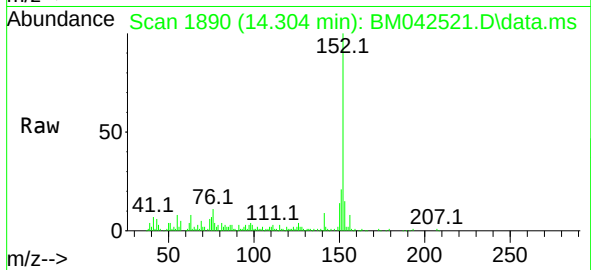
153 15.0 10.4 15.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/01/2023

Supervised By :mohammad ahmed 11/01/2023



#52

Acenaphthene

Concen: 3.135 ng

RT: 14.633 min Scan# 1946

Delta R.T. -0.012 min

Lab File: BM042521.D

Acq: 31 Oct 2023 21:23

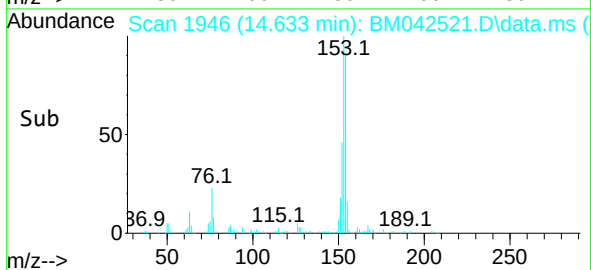
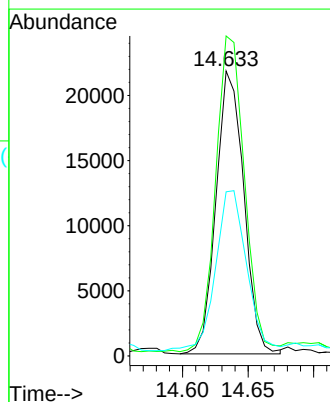
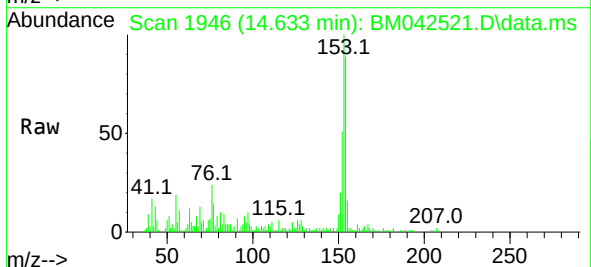
Tgt Ion:154 Resp: 31946

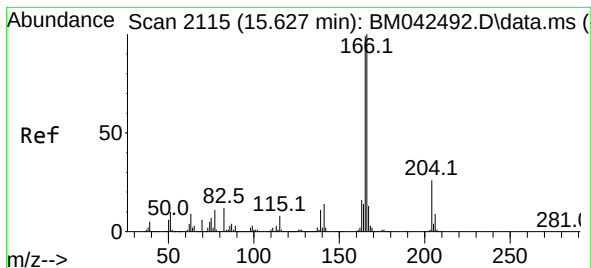
Ion Ratio Lower Upper

154 100

153 112.3 92.0 138.0

152 57.6 44.0 66.0





#58

Fluorene

Concen: 5.032 ng

RT: 15.621 min Scan# 2115

Delta R.T. -0.006 min

Lab File: BM042521.D

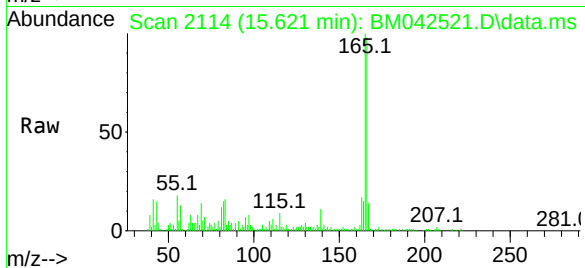
Acq: 31 Oct 2023 21:23

Instrument :

BNA_M

ClientSampleId :

0-2(0-10)



Tgt Ion:166 Resp: 67452

Ion Ratio Lower Upper

166 100

165 101.6 79.3 118.9

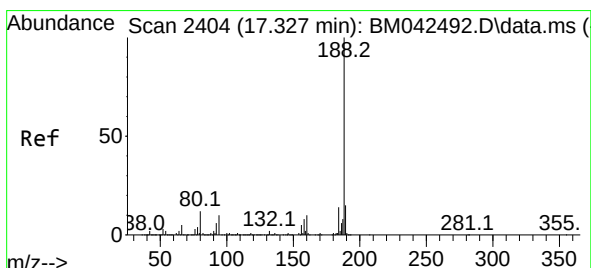
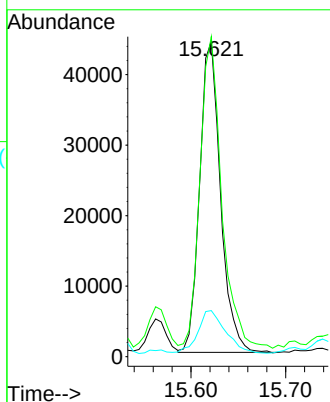
167 14.6 10.5 15.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/01/2023

Supervised By :mohammad ahmed 11/01/2023



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.327 min Scan# 2404

Delta R.T. 0.000 min

Lab File: BM042521.D

Acq: 31 Oct 2023 21:23

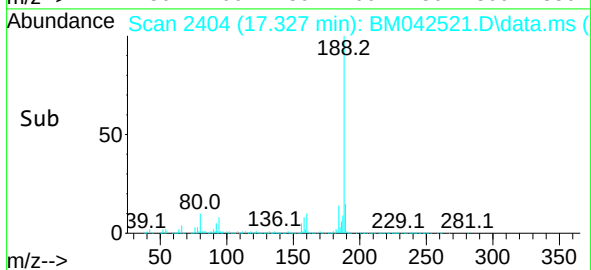
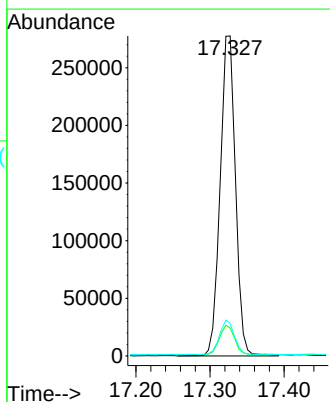
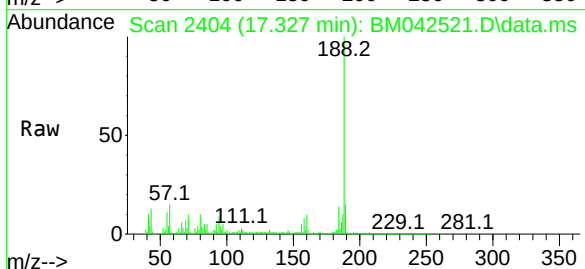
Tgt Ion:188 Resp: 399690

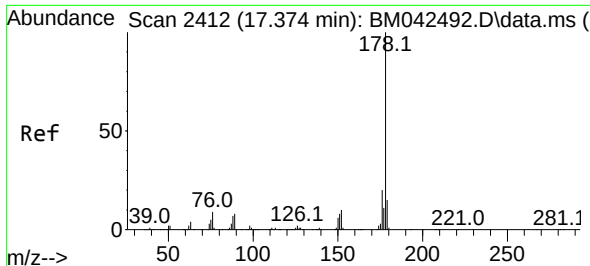
Ion Ratio Lower Upper

188 100

94 8.7 8.2 12.4

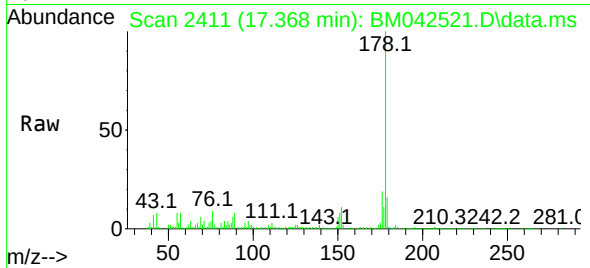
80 10.2 9.4 14.2





#71
Phenanthrene
Concen: 20.047 ng
RT: 17.368 min Scan# 2412
Delta R.T. -0.006 min
Lab File: BM042521.D
Acq: 31 Oct 2023 21:23

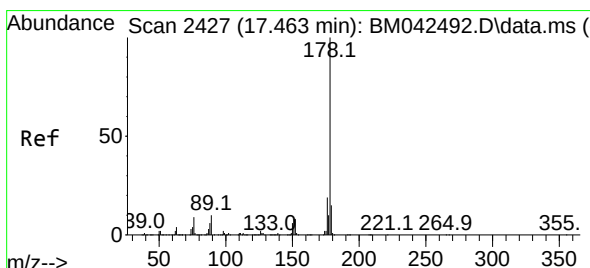
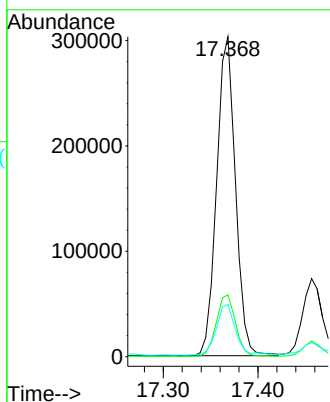
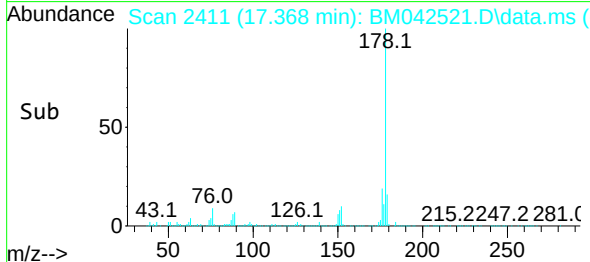
Instrument :
BNA_M
ClientSampleId :
0-2(0-10)



Tgt Ion:178 Resp: 418723
Ion Ratio Lower Upper
178 100
176 19.3 15.8 23.8
179 16.3 12.2 18.4

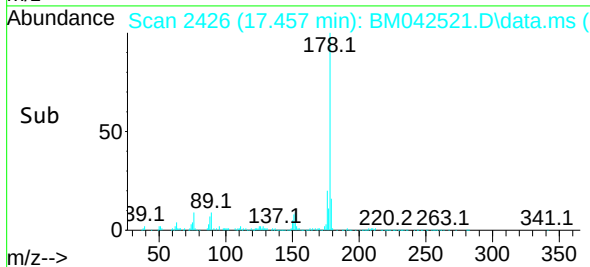
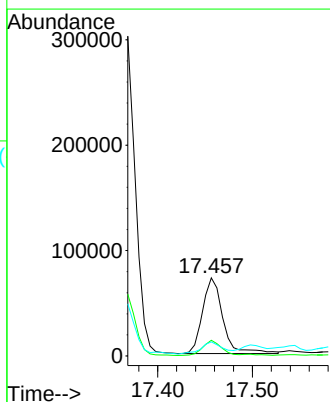
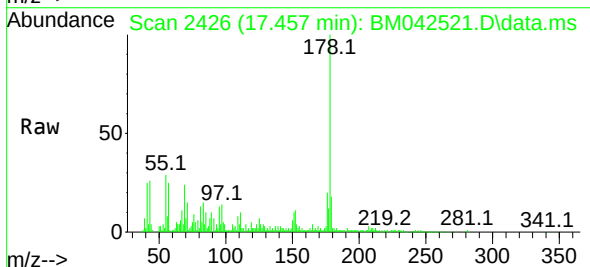
Manual Integrations
APPROVED

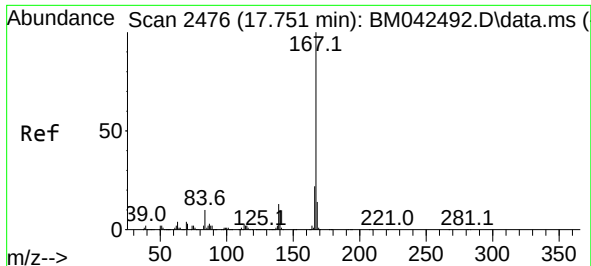
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#72
Anthracene
Concen: 5.204 ng
RT: 17.457 min Scan# 2426
Delta R.T. -0.006 min
Lab File: BM042521.D
Acq: 31 Oct 2023 21:23

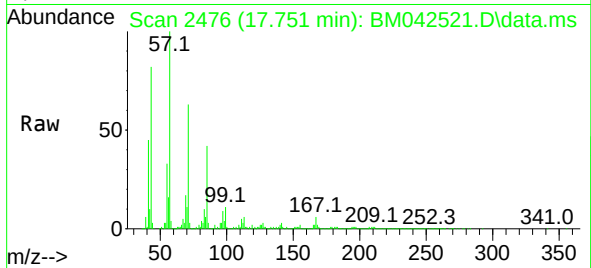
Tgt Ion:178 Resp: 107656
Ion Ratio Lower Upper
178 100
176 20.0 15.2 22.8
179 18.0 12.3 18.5





#73
 Carbazole
 Concen: 2.169 ng
 RT: 17.751 min Scan# 2476
 Delta R.T. -0.000 min
 Lab File: BM042521.D
 Acq: 31 Oct 2023 21:23

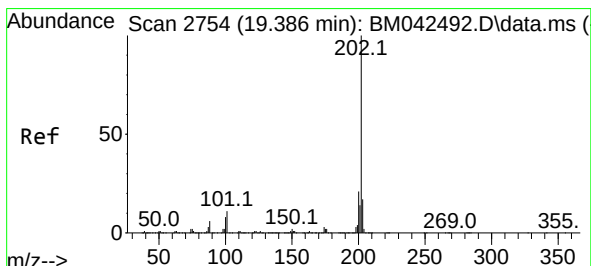
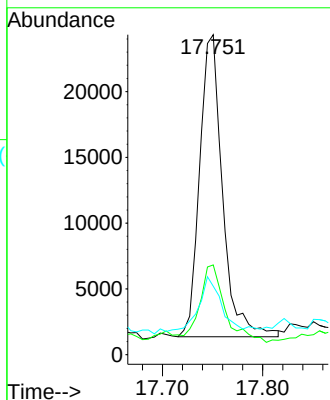
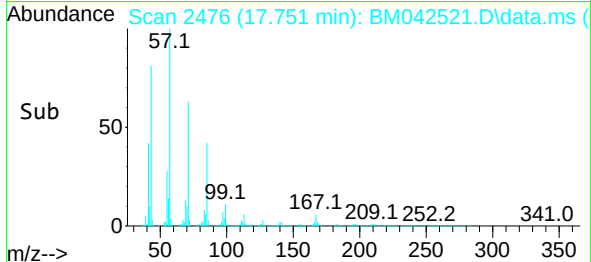
Instrument :
 BNA_M
 ClientSampleId :
 0-2(0-10)



Tgt Ion:167 Resp: 36508
 Ion Ratio Lower Upper
 167 100
 166 28.0 17.4 26.2
 139 21.4 10.5 15.7

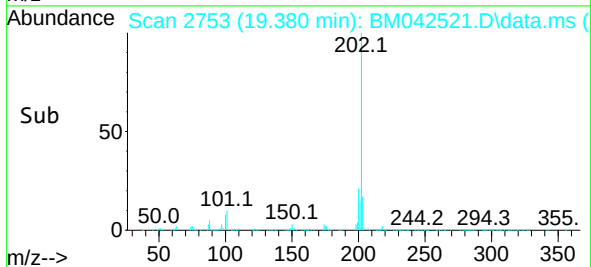
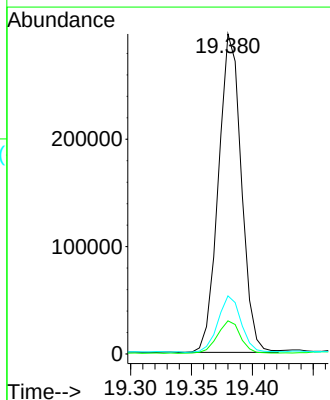
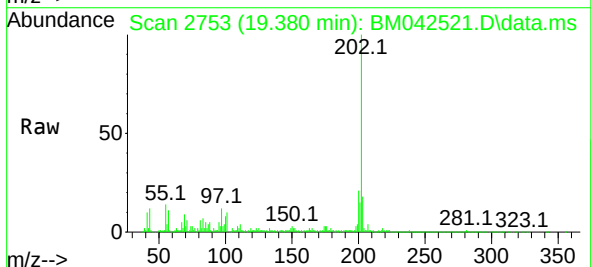
Manual Integrations
 APPROVED

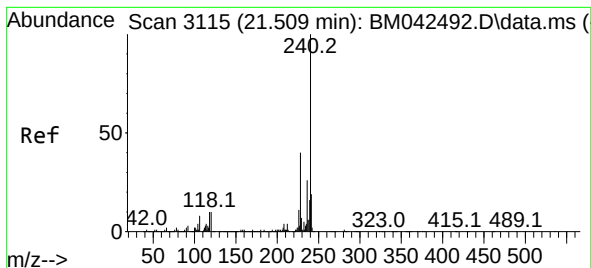
Reviewed By :Yogesh Patel 11/01/2023
 Supervised By :mohammad ahmed 11/01/2023



#75
 Fluoranthene
 Concen: 15.861 ng
 RT: 19.380 min Scan# 2753
 Delta R.T. -0.006 min
 Lab File: BM042521.D
 Acq: 31 Oct 2023 21:23

Tgt Ion:202 Resp: 389164
 Ion Ratio Lower Upper
 202 100
 101 10.3 0.0 30.5
 203 18.1 0.0 37.0





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.503 min Scan# 3115

Delta R.T. -0.006 min

Lab File: BM042521.D

Acq: 31 Oct 2023 21:23

Instrument :

BNA_M

ClientSampleId :

0-2(0-10)

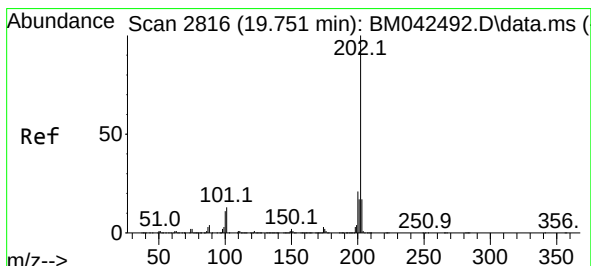
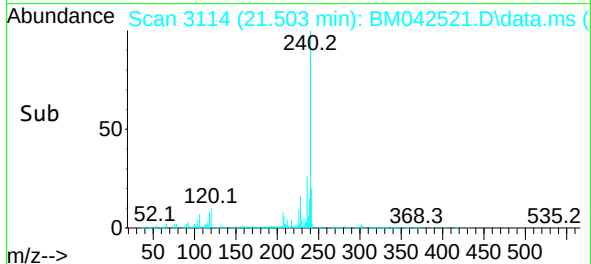
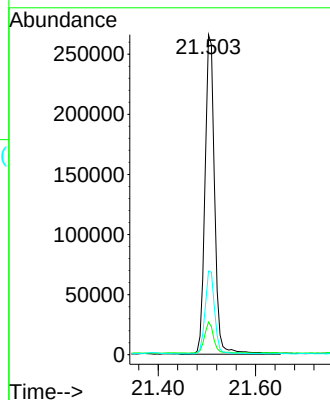
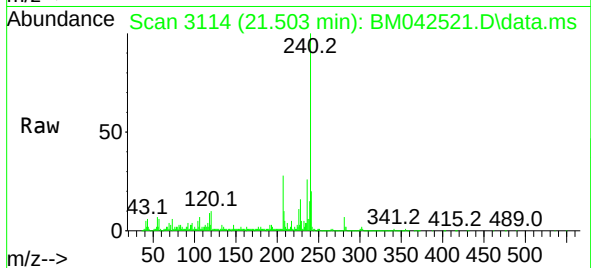
Tgt Ion:240 Resp: 363314
 Ion Ratio Lower Upper
 240 100
 120 10.2 8.3 12.5
 236 26.2 20.8 31.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/01/2023

Supervised By :mohammad ahmed 11/01/2023



#78

Pyrene

Concen: 18.012 ng

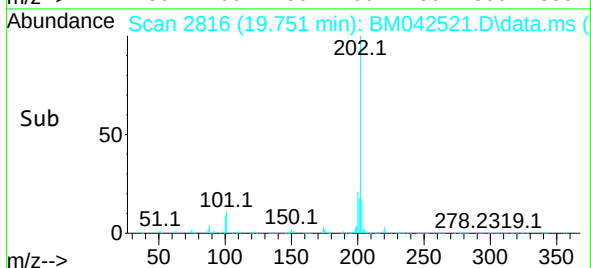
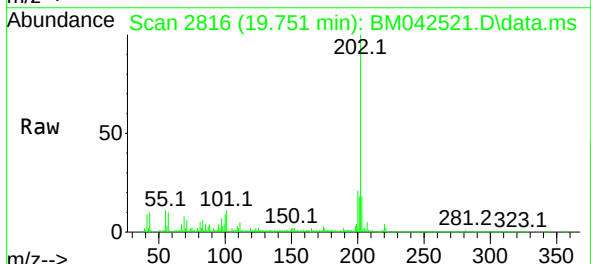
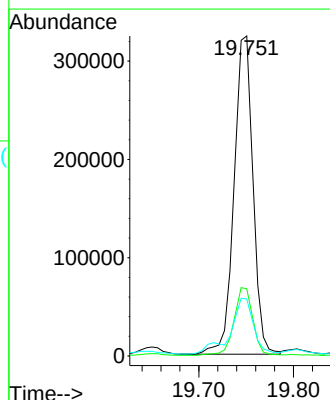
RT: 19.751 min Scan# 2816

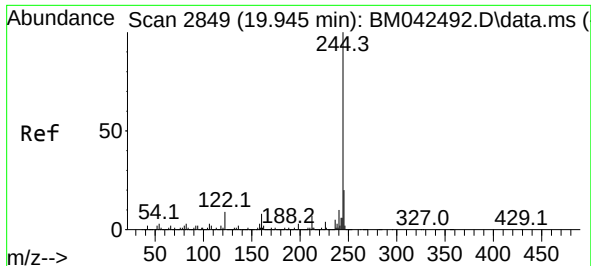
Delta R.T. -0.000 min

Lab File: BM042521.D

Acq: 31 Oct 2023 21:23

Tgt Ion:202 Resp: 449364
 Ion Ratio Lower Upper
 202 100
 200 21.0 16.9 25.3
 203 17.8 13.7 20.5





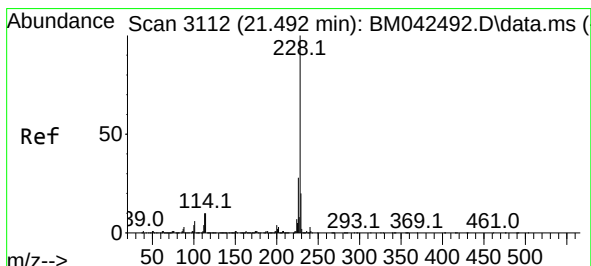
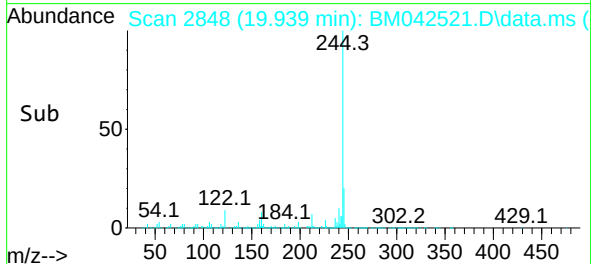
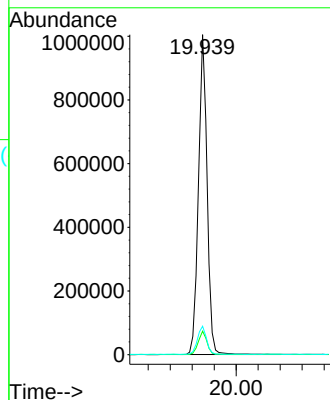
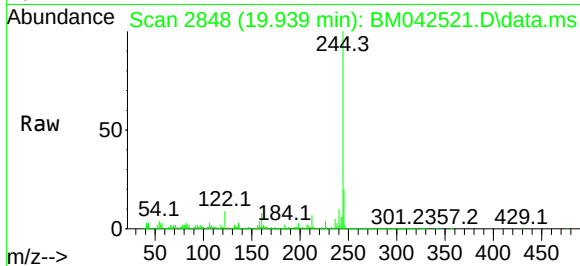
#79
 Terphenyl-d14
 Concen: 51.273 ng
 RT: 19.939 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: BM042521.D
 Acq: 31 Oct 2023 21:23

Instrument :
 BNA_M
 ClientSampleId :
 0-2(0-10)

Tgt Ion:244 Resp: 109862
 Ion Ratio Lower Upper
 244 100
 212 7.3 5.4 8.2
 122 8.9 7.2 10.8

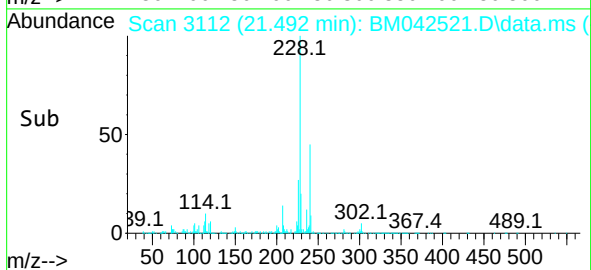
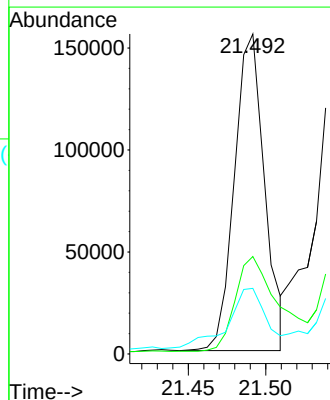
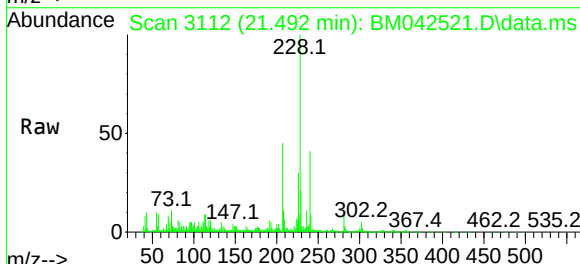
Manual Integrations
 APPROVED

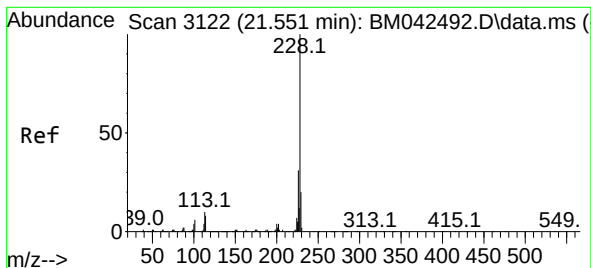
Reviewed By :Yogesh Patel 11/01/2023
 Supervised By :mohammad ahmed 11/01/2023



#81
 Benzo(a)anthracene
 Concen: 9.098 ng
 RT: 21.492 min Scan# 3112
 Delta R.T. -0.000 min
 Lab File: BM042521.D
 Acq: 31 Oct 2023 21:23

Tgt Ion:228 Resp: 210309
 Ion Ratio Lower Upper
 228 100
 226 30.4 22.3 33.5
 229 20.5 15.8 23.8





#83

Chrysene

Concen: 8.957 ng m

RT: 21.545 min Scan# 31

Delta R.T. -0.006 min

Lab File: BM042521.D

Acq: 31 Oct 2023 21:23

Instrument :

BNA_M

ClientSampleId :

0-2(0-10)

Tgt Ion:228 Resp: 21031

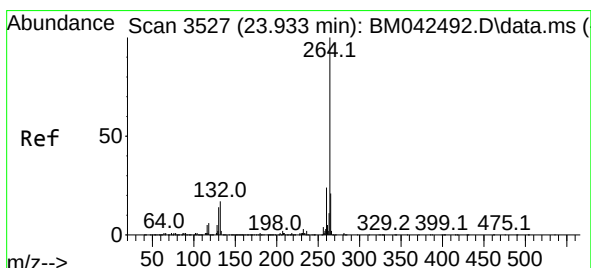
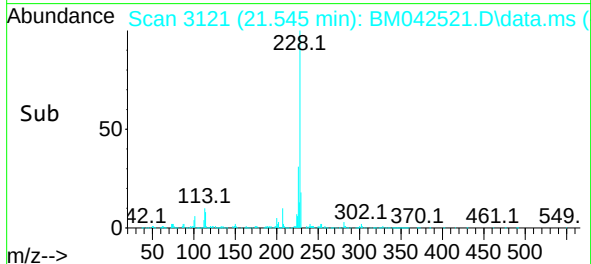
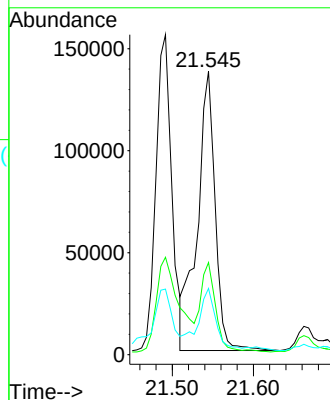
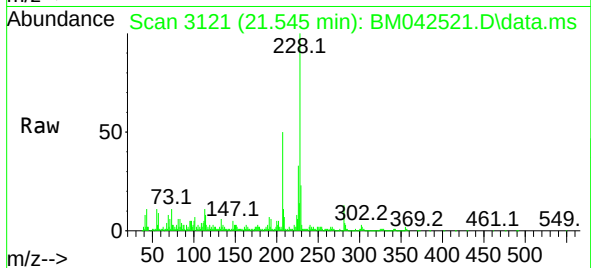
Ion	Ratio	Lower	Upper
228	100		
226	32.5	24.4	36.6
229	23.4	15.7	23.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/01/2023

Supervised By :mohammad ahmed 11/01/2023



#86

Perylene-d12

Concen: 20.000 ng

RT: 23.927 min Scan# 3526

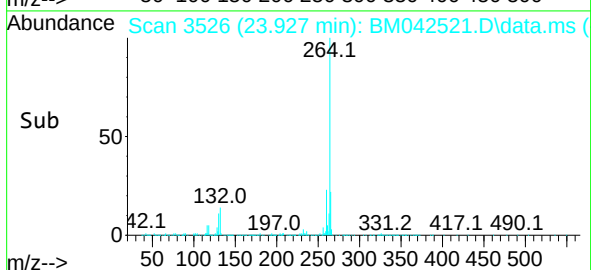
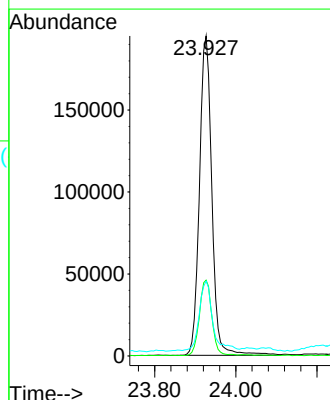
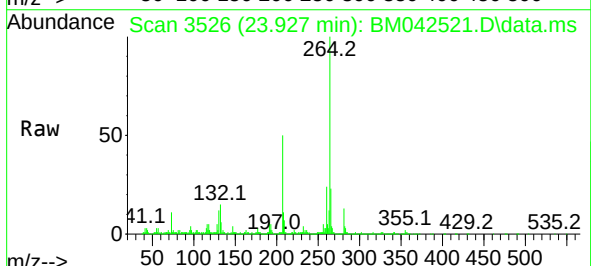
Delta R.T. -0.006 min

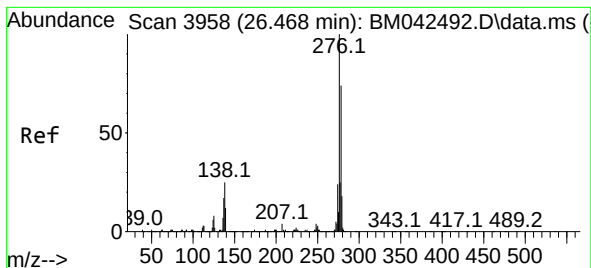
Lab File: BM042521.D

Acq: 31 Oct 2023 21:23

Tgt Ion:264 Resp: 413924

Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.0	28.4
265	23.4	18.7	28.1





#87

Indeno(1,2,3-cd)pyrene

Concen: 4.745 ng

RT: 26.444 min Scan# 3954

Delta R.T. -0.024 min

Lab File: BM042521.D

Acq: 31 Oct 2023 21:23

Instrument :

BNA_M

ClientSampleId :

0-2(0-10)

Tgt Ion:276 Resp: 11689

Ion Ratio Lower Upper

276 100

138 19.2 20.6 31.0

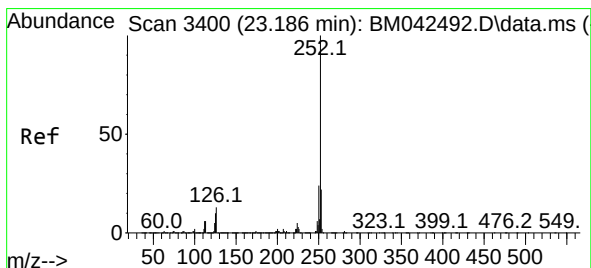
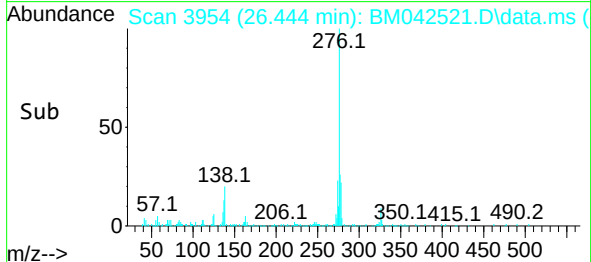
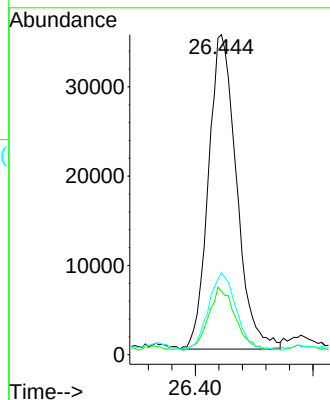
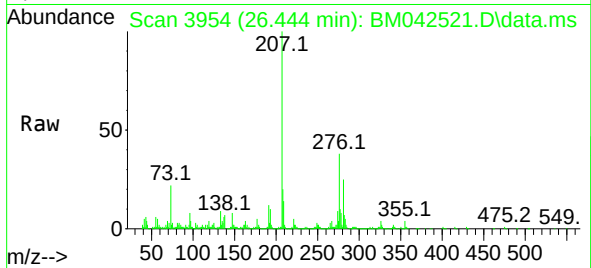
277 23.9 19.5 29.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/01/2023

Supervised By :mohammad ahmed 11/01/2023



#88

Benzo(b)fluoranthene

Concen: 10.563 ng m

RT: 23.180 min Scan# 3399

Delta R.T. -0.006 min

Lab File: BM042521.D

Acq: 31 Oct 2023 21:23

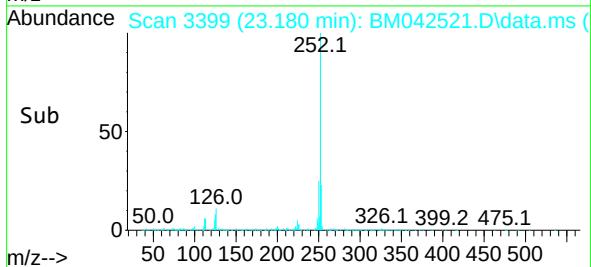
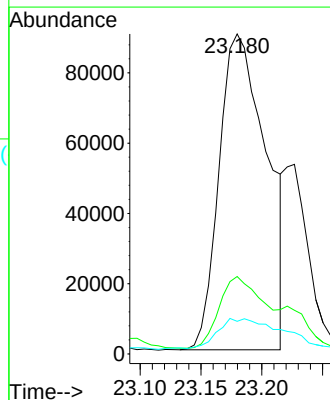
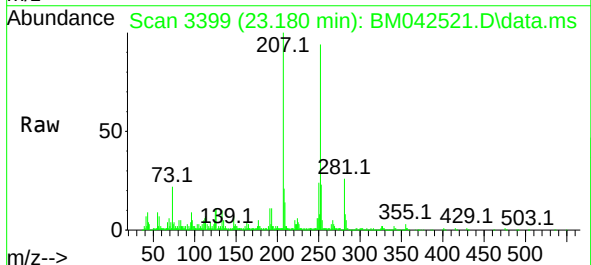
Tgt Ion:252 Resp: 243578

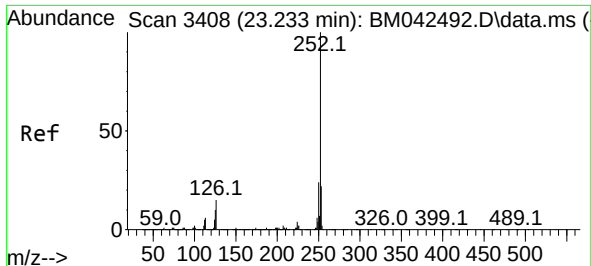
Ion Ratio Lower Upper

252 100

253 24.2 17.5 26.3

125 10.2 7.8 11.6





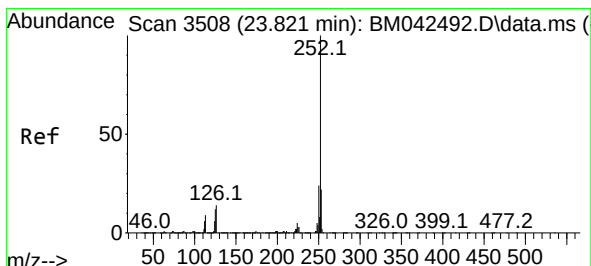
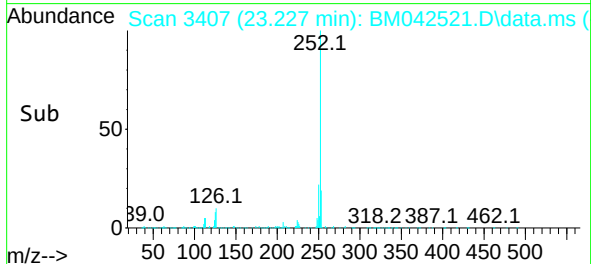
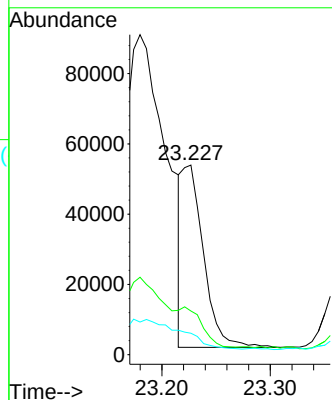
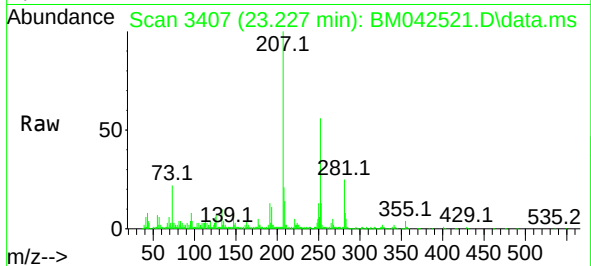
#89
Benzo(k)fluoranthene
Concen: 2.756 ng m
RT: 23.227 min Scan# 3408
Delta R.T. -0.006 min
Lab File: BM042521.D
Acq: 31 Oct 2023 21:23

Instrument :
BNA_M
ClientSampleId :
0-2(0-10)

Tgt Ion:252 Resp: 7083
Ion Ratio Lower Upper
252 100
253 23.1 17.6 26.4
125 11.3 8.2 12.4

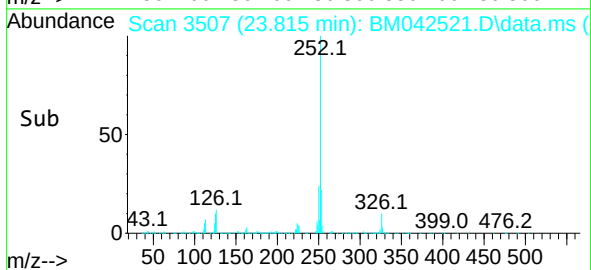
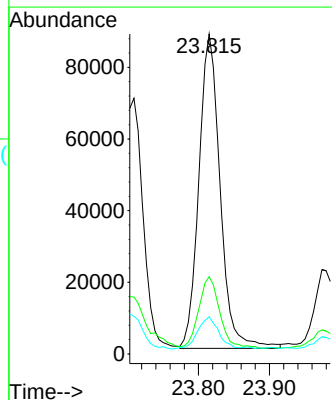
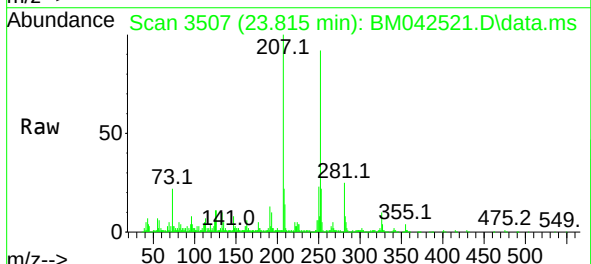
Manual Integrations
APPROVED

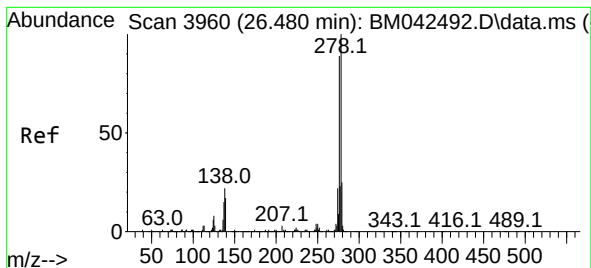
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#90
Benzo(a)pyrene
Concen: 8.064 ng
RT: 23.815 min Scan# 3507
Delta R.T. -0.006 min
Lab File: BM042521.D
Acq: 31 Oct 2023 21:23

Tgt Ion:252 Resp: 183074
Ion Ratio Lower Upper
252 100
253 24.1 17.5 26.3
125 11.7 9.4 14.2





#91

Dibenzo(a,h)anthracene

Concen: 5.433 ng

RT: 26.456 min Scan# 3960

Delta R.T. -0.024 min

Lab File: BM042521.D

Acq: 31 Oct 2023 21:23

Instrument :

BNA_M

ClientSampleId :

0-2(0-10)

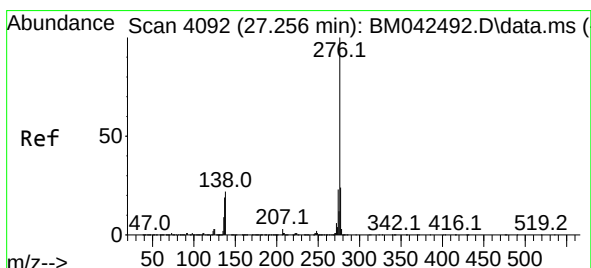
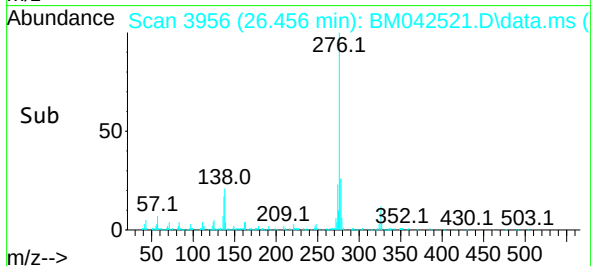
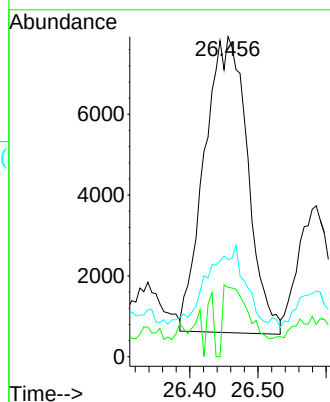
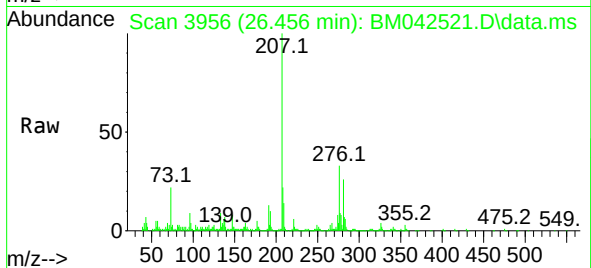
Tgt Ion:	278	Resp:	32220
Ion Ratio	Lower	Upper	
278	100		
139	21.7	13.4	20.2
279	30.4	19.7	29.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/01/2023

Supervised By :mohammad ahmed 11/01/2023



#92

Benzo(g,h,i)perylene

Concen: 6.144 ng

RT: 27.238 min Scan# 4089

Delta R.T. -0.018 min

Lab File: BM042521.D

Acq: 31 Oct 2023 21:23

Tgt Ion:	276	Resp:	133398
Ion Ratio	Lower	Upper	
276	100		
277	22.9	19.2	28.8
138	20.4	17.3	25.9

