

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM103123\
 Data File : BM042522.D
 Acq On : 31 Oct 2023 21:59
 Operator : MA/JU
 Sample : 04938-09 10X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A-5(0-2)

Manual Integrations
 APPROVED

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

Quant Time: Nov 01 01:51:04 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	77448	20.000	ng	0.00
21) Naphthalene-d8	10.739	136	290671	20.000	ng	-0.01
39) Acenaphthene-d10	14.574	164	169186	20.000	ng	0.00
64) Phenanthrene-d10	17.333	188	377291	20.000	ng	0.00
76) Chrysene-d12	21.533	240	332416	20.000	ng	0.02
86) Perylene-d12	23.968	264	394102	20.000	ng	# 0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.463	112	33834	7.050	ng	0.00
7) Phenol-d6	7.093	99	40701	6.184	ng	0.00
23) Nitrobenzene-d5	9.122	82	27129	4.351	ng	-0.01
42) 2,4,6-Tribromophenol	16.069	330	14093	6.380	ng	0.00
45) 2-Fluorobiphenyl	13.192	172	55560	4.419	ng	0.00
79) Terphenyl-d14	19.939	244	88110	4.494	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.792	128	155698	10.368	ng	99
37) 2-Methylnaphthalene	12.398	142	49665	4.696	ng	99
38) 1-Methylnaphthalene	12.616	142	44762	4.496	ng	99
46) 1,1'-Biphenyl	13.410	154	30395	2.350	ng	99
49) Acenaphthylene	14.304	152	90397	5.753	ng	99
52) Acenaphthene	14.639	154	726918	76.227	ng	99
55) Dibenzofuran	14.974	168	555704	35.841	ng	99
58) Fluorene	15.621	166	840627	67.009	ng	99
71) Phenanthrene	17.392	178	15365064	779.282	ng	99
72) Anthracene	17.474	178	4203764	215.253	ng	99
73) Carbazole	17.757	167	2784624	175.271	ng	100
75) Fluoranthene	19.404	202	22129677	955.477	ng	96
78) Pyrene	19.774	202	19699395	863.030	ng	# 95
81) Benzo(a)anthracene	21.515	228	12544056	593.098	ng	95
83) Chrysene	21.574	228	11283390m	525.198	ng	
87) Indeno(1,2,3-cd)pyrene	26.585	276	10603269	452.050	ng	# 88
88) Benzo(b)fluoranthene	23.244	252	18574449	845.976	ng	# 96
89) Benzo(k)fluoranthene	23.292	252	5842572m	238.804	ng	
90) Benzo(a)pyrene	23.897	252	13475121m	623.375	ng	
91) Dibenzo(a,h)anthracene	26.574	278	2410523m	105.861	ng	
92) Benzo(g,h,i)perylene	27.397	276	10000782	483.758	ng	# 92

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

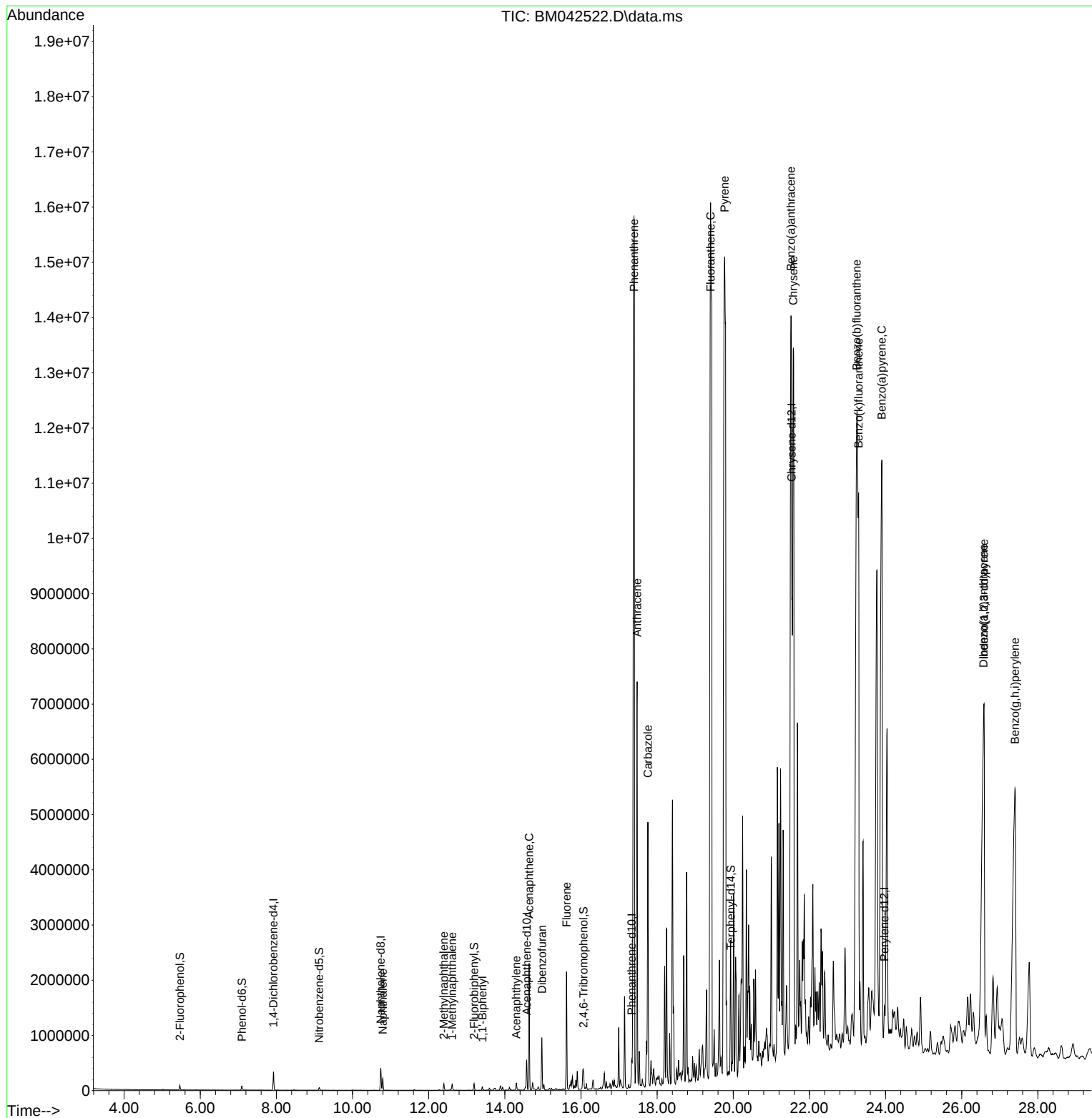
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM103123\
Data File : BM042522.D
Acq On : 31 Oct 2023 21:59
Operator : MA/JU
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Misc :
ALS Vial : 11 Sample Multiplier: 1

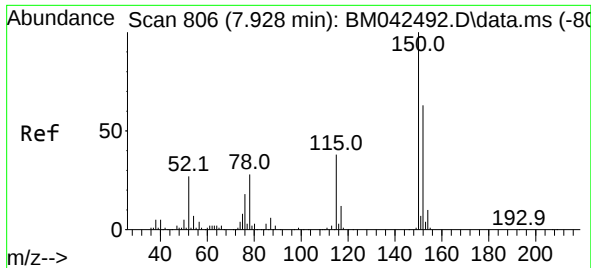
Instrument :
BNA_M
ClientSampleId :
A-5(0-2)

Quant Time: Nov 01 01:51:04 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
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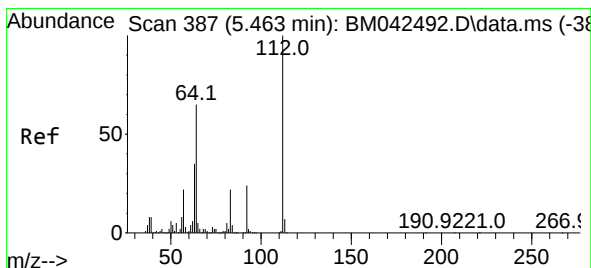
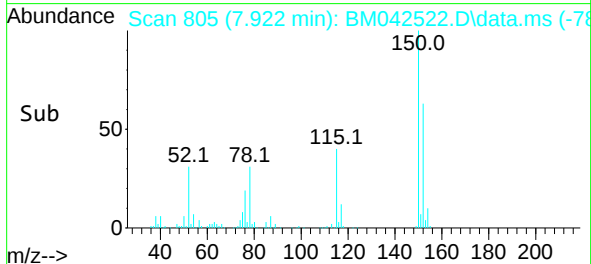
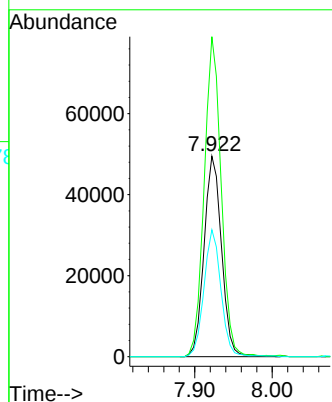
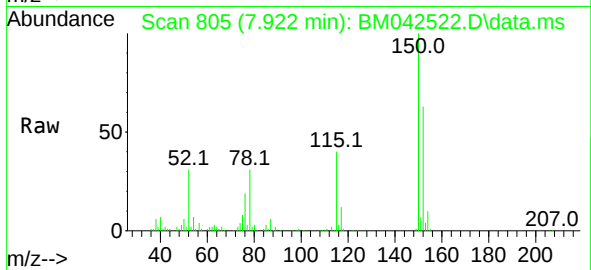
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.922 min Scan# 806
Delta R.T. -0.006 min
Lab File: BM042522.D
Acq: 31 Oct 2023 21:59

Instrument :
BNA_M
ClientSampleId :
A-5(0-2)

Tgt Ion:152 Resp: 77448
Ion Ratio Lower Upper
152 100
150 159.6 127.4 191.0
115 63.3 47.9 71.9

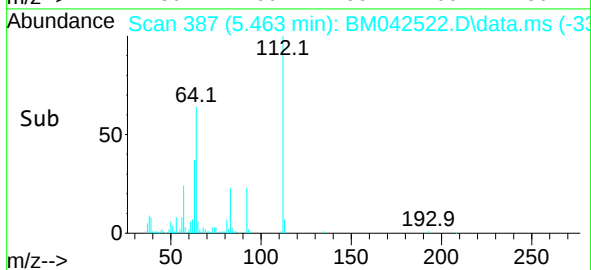
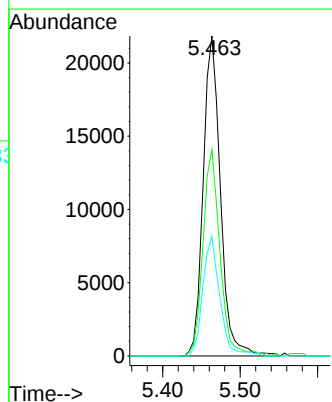
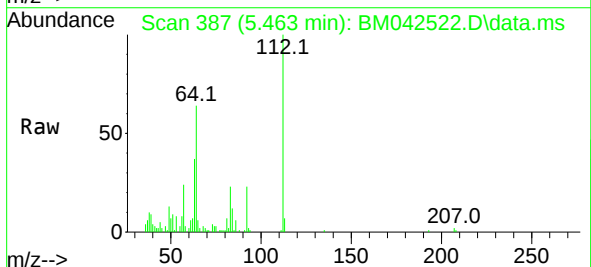
Manual Integrations
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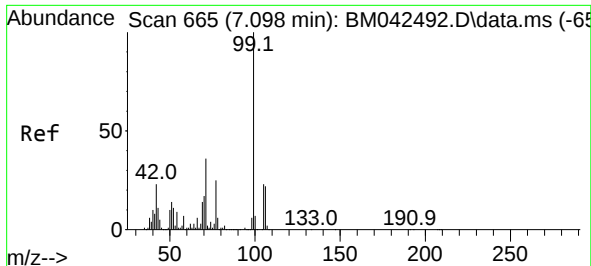
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#5
2-Fluorophenol
Concen: 7.050 ng
RT: 5.463 min Scan# 387
Delta R.T. -0.000 min
Lab File: BM042522.D
Acq: 31 Oct 2023 21:59

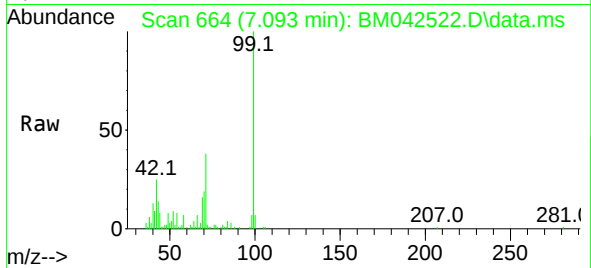
Tgt Ion:112 Resp: 33834
Ion Ratio Lower Upper
112 100
64 64.4 52.1 78.1
63 37.3 28.3 42.5





#7
Phenol-d6
Concen: 6.184 ng
RT: 7.093 min Scan# 60
Delta R.T. -0.006 min
Lab File: BM042522.D
Acq: 31 Oct 2023 21:59

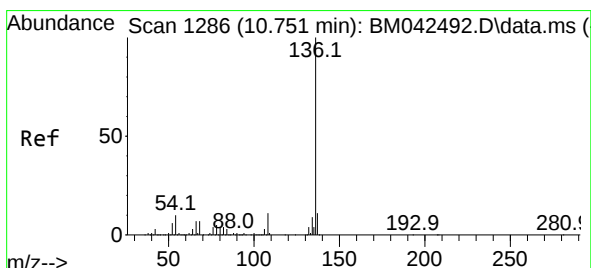
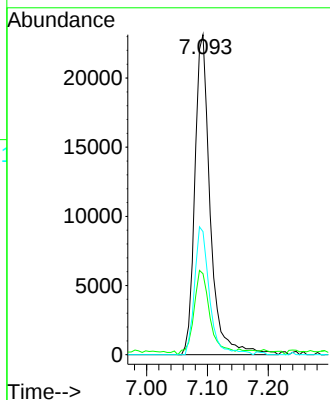
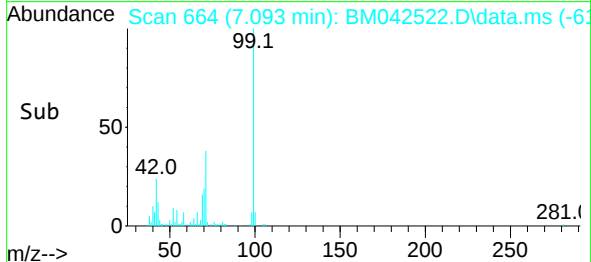
Instrument :
BNA_M
ClientSampleId :
A-5(0-2)



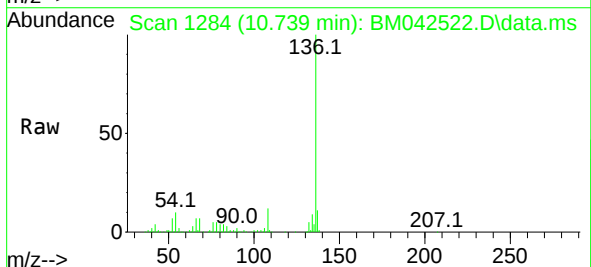
Tgt Ion: 99 Resp: 4070
Ion Ratio Lower Upper
99 100
42 25.3 18.7 28.1
71 38.4 29.1 43.7

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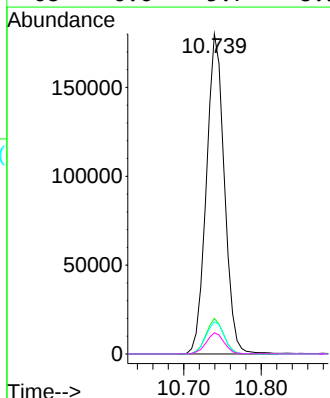
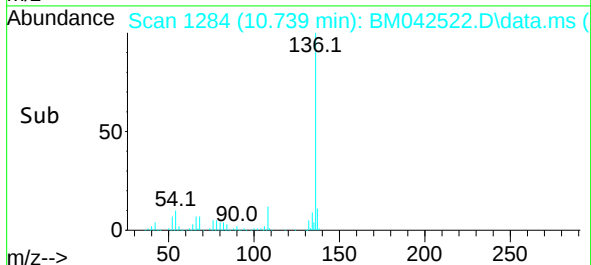
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023

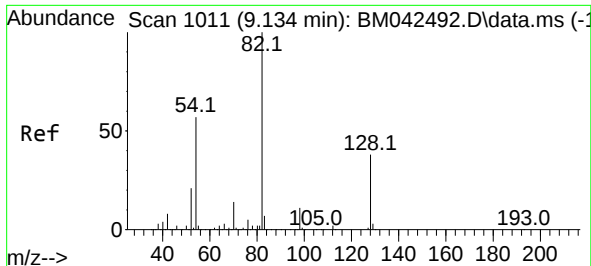


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.739 min Scan# 1284
Delta R.T. -0.012 min
Lab File: BM042522.D
Acq: 31 Oct 2023 21:59



Tgt Ion:136 Resp: 290671
Ion Ratio Lower Upper
136 100
137 11.1 9.0 13.6
54 10.0 8.0 12.0
68 6.6 5.7 8.5





#23

Nitrobenzene-d5

Concen: 4.351 ng

RT: 9.122 min Scan# 1011

Delta R.T. -0.012 min

Lab File: BM042522.D

Acq: 31 Oct 2023 21:59

Instrument :

BNA_M

ClientSampleId :

A-5(0-2)

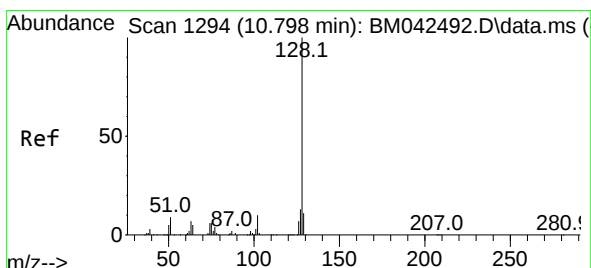
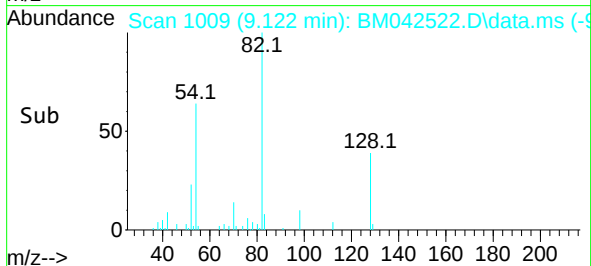
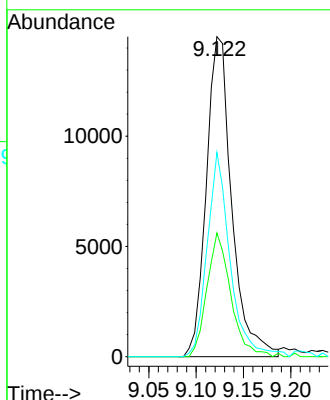
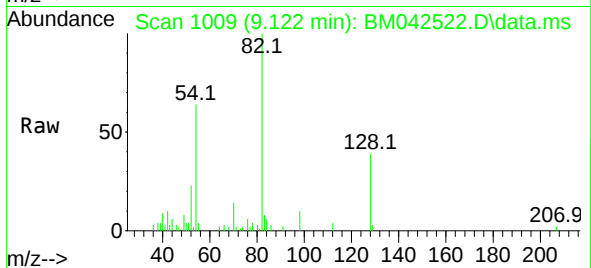
Tgt Ion: 82	Resp: 27129
Ion Ratio	Lower Upper
82 100	
128 38.7	30.7 46.1
54 63.8	45.3 67.9

Manual Integrations

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Supervised By :mohammad ahmed 11/01/2023



#31

Naphthalene

Concen: 10.368 ng

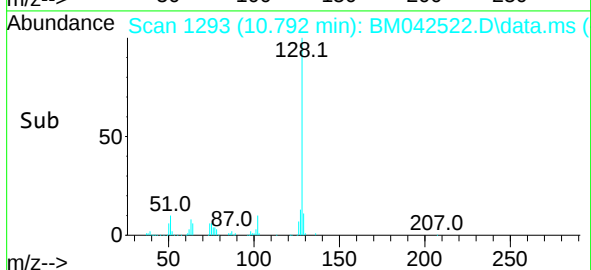
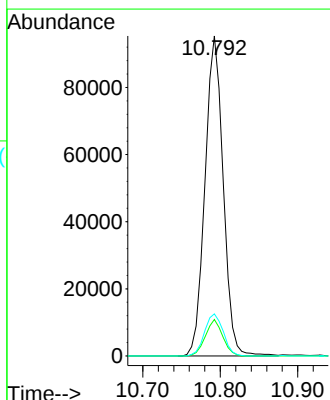
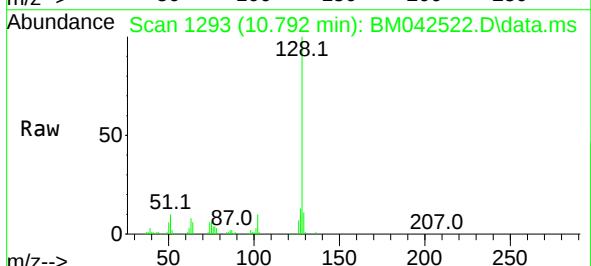
RT: 10.792 min Scan# 1293

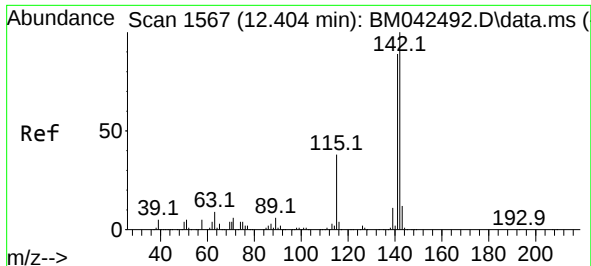
Delta R.T. -0.006 min

Lab File: BM042522.D

Acq: 31 Oct 2023 21:59

Tgt Ion:128	Resp: 155698
Ion Ratio	Lower Upper
128 100	
129 11.4	8.8 13.2
127 13.2	10.6 15.8





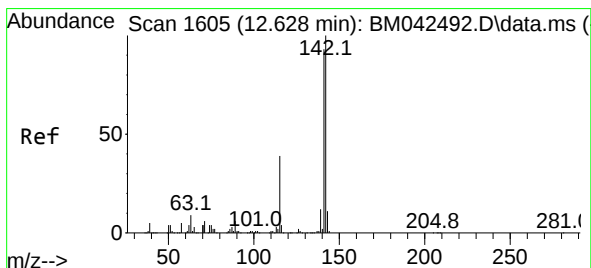
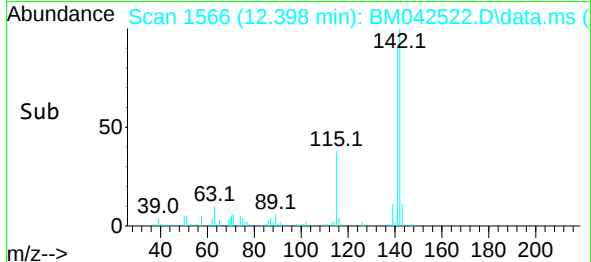
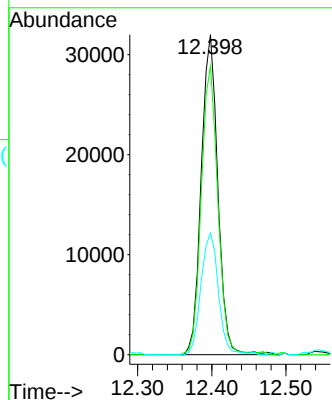
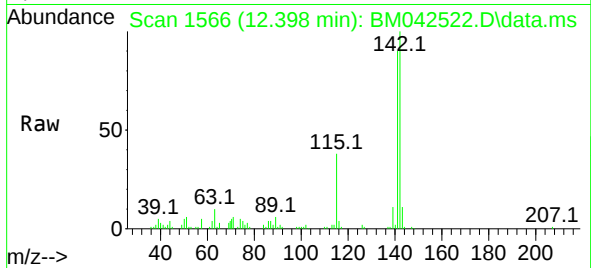
#37
2-Methylnaphthalene
Concen: 4.696 ng
RT: 12.398 min Scan# 11
Delta R.T. -0.006 min
Lab File: BM042522.D
Acq: 31 Oct 2023 21:59

Instrument :
BNA_M
ClientSampleId :
A-5(0-2)

Tgt Ion:142 Resp: 4966
Ion Ratio Lower Upper
142 100
141 90.2 70.9 106.3
115 38.0 30.2 45.2

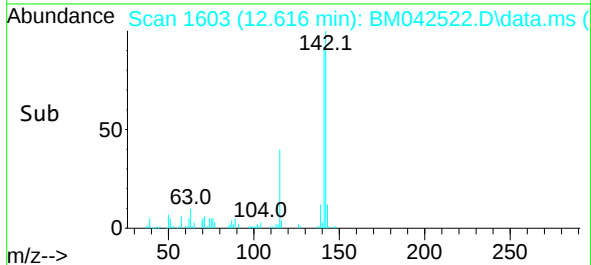
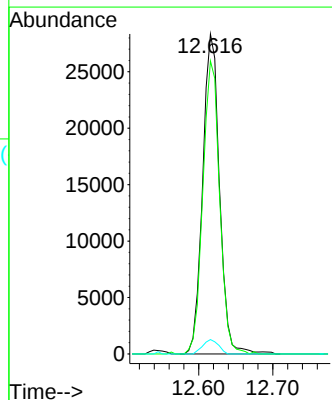
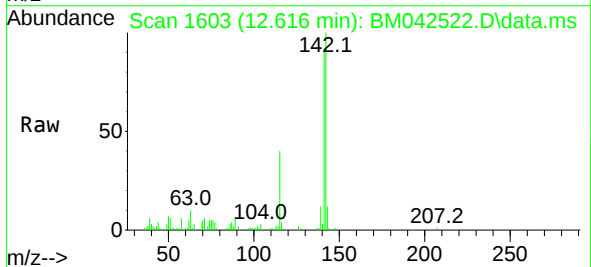
Manual Integrations
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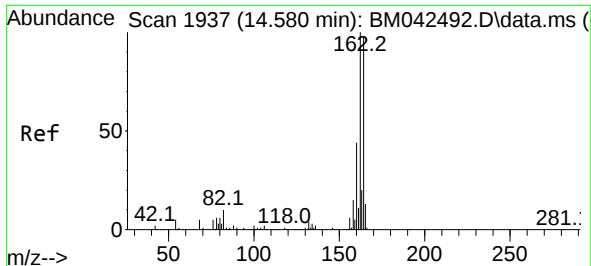
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#38
1-Methylnaphthalene
Concen: 4.496 ng
RT: 12.616 min Scan# 1603
Delta R.T. -0.012 min
Lab File: BM042522.D
Acq: 31 Oct 2023 21:59

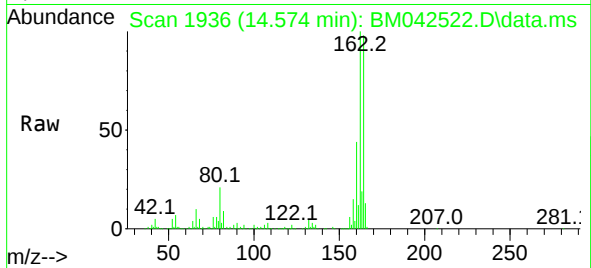
Tgt Ion:142 Resp: 44762
Ion Ratio Lower Upper
142 100
141 91.6 74.4 111.6
116 4.5 3.2 4.8





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.574 min Scan# 1936
Delta R.T. -0.006 min
Lab File: BM042522.D
Acq: 31 Oct 2023 21:59

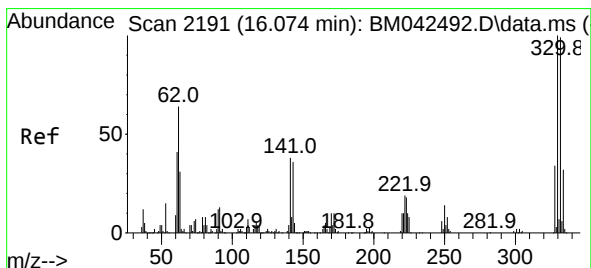
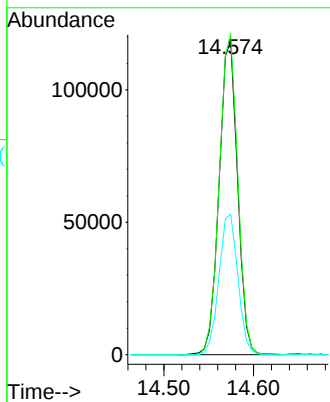
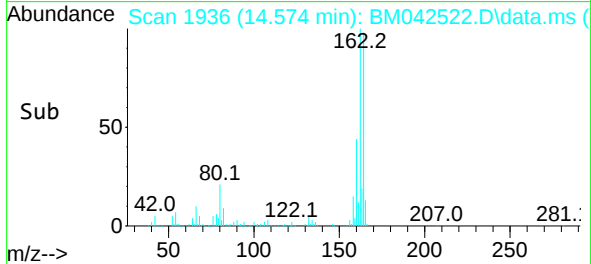
Instrument :
BNA_M
ClientSampleId :
A-5(0-2)



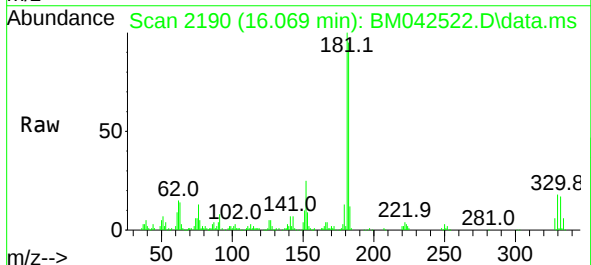
Tgt Ion:164 Resp: 169180
Ion Ratio Lower Upper
164 100
162 102.1 81.6 122.4
160 44.8 36.2 54.4

Manual Integrations
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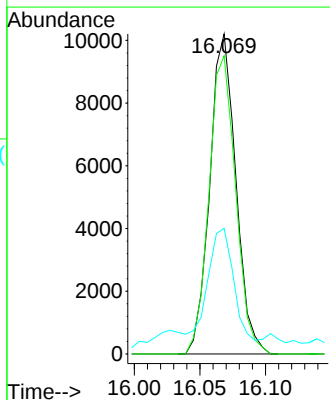
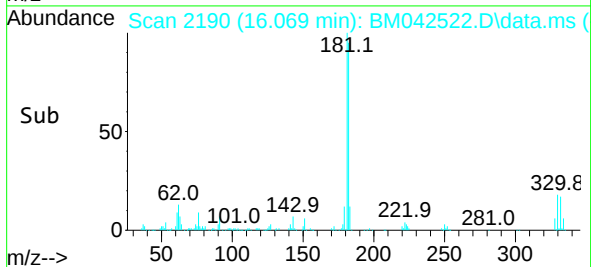
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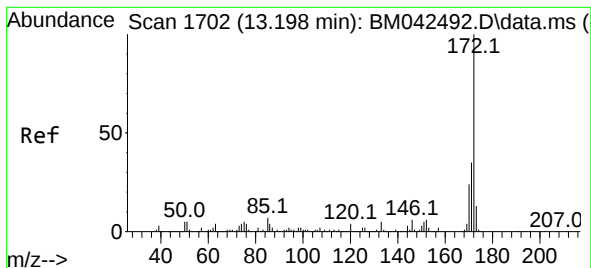


#42
2,4,6-Tribromophenol
Concen: 6.380 ng
RT: 16.069 min Scan# 2190
Delta R.T. -0.006 min
Lab File: BM042522.D
Acq: 31 Oct 2023 21:59



Tgt Ion:330 Resp: 14093
Ion Ratio Lower Upper
330 100
332 95.3 78.8 118.2
141 34.0 31.1 46.7





#45

2-Fluorobiphenyl

Concen: 4.419 ng

RT: 13.192 min Scan# 1702

Delta R.T. -0.006 min

Lab File: BM042522.D

Acq: 31 Oct 2023 21:59

Instrument :

BNA_M

ClientSampleId :

A-5(0-2)

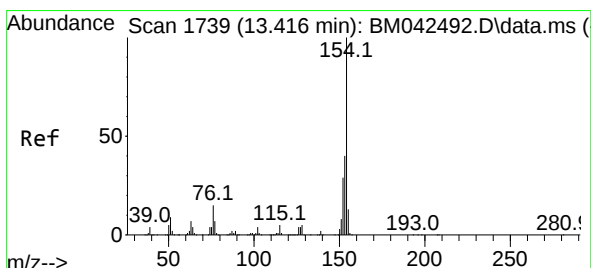
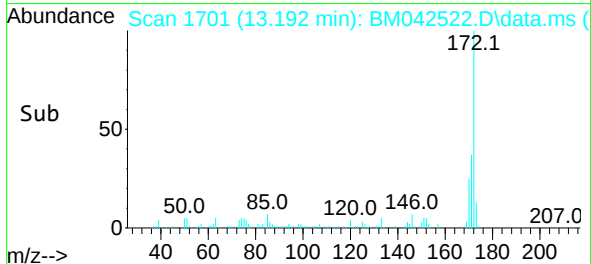
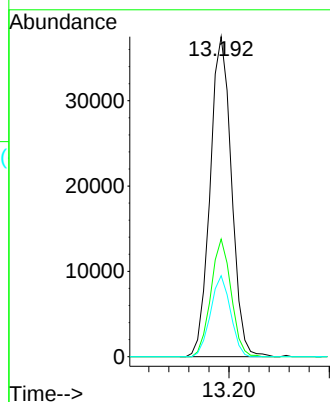
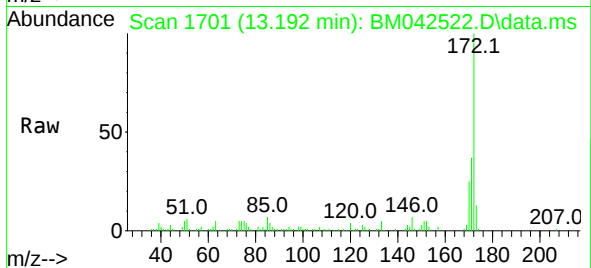
Tgt Ion:	172	Resp:	55560
Ion Ratio	Lower	Upper	
172	100		
171	36.8	28.2	42.2
170	25.3	19.0	28.4

Manual Integrations

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Supervised By :mohammad ahmed 11/01/2023



#46

1,1'-Biphenyl

Concen: 2.350 ng

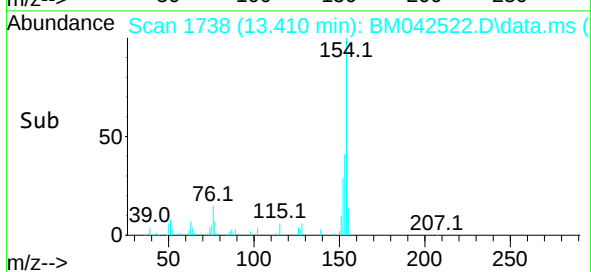
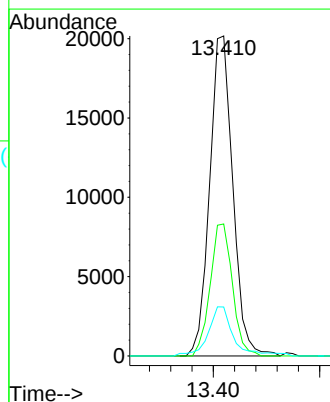
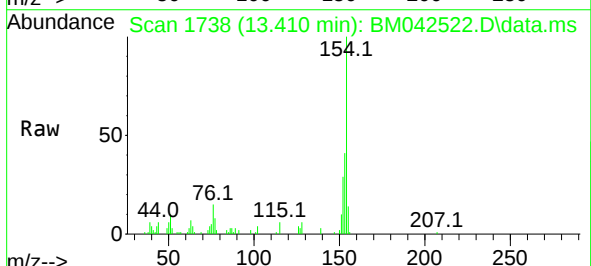
RT: 13.410 min Scan# 1738

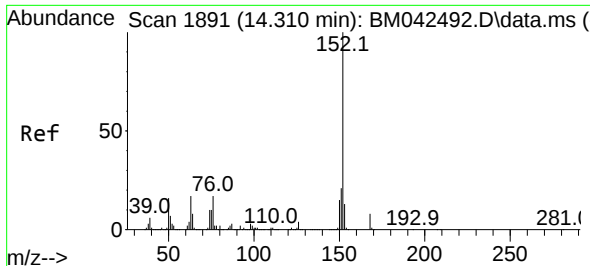
Delta R.T. -0.006 min

Lab File: BM042522.D

Acq: 31 Oct 2023 21:59

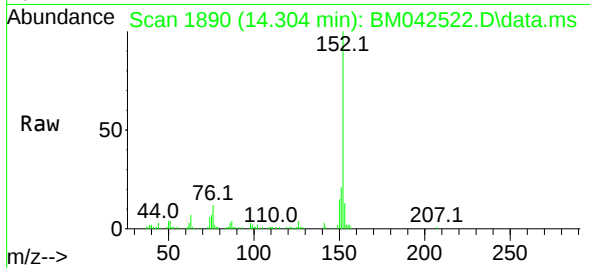
Tgt Ion:	154	Resp:	30395
Ion Ratio	Lower	Upper	
154	100		
153	41.3	20.3	60.3
76	15.3	0.0	35.0





#49
Acenaphthylene
Concen: 5.753 ng
RT: 14.304 min Scan# 11
Delta R.T. -0.006 min
Lab File: BM042522.D
Acq: 31 Oct 2023 21:59

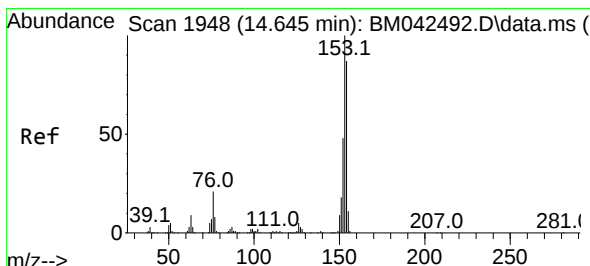
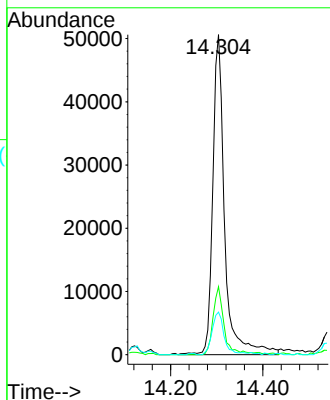
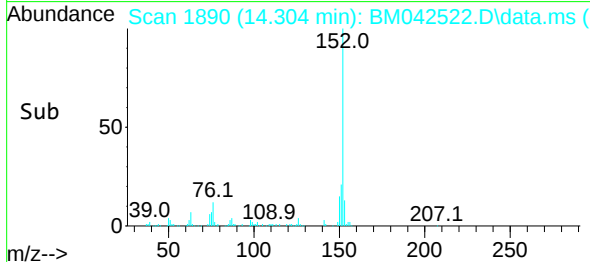
Instrument :
BNA_M
ClientSampleId :
A-5(0-2)



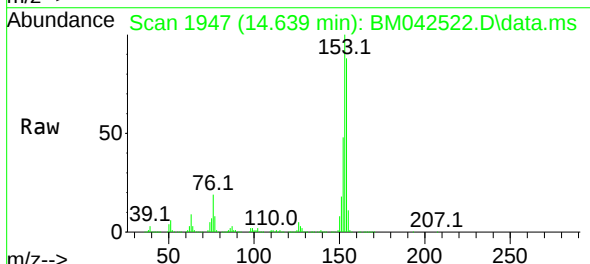
Tgt Ion:152 Resp: 9039
Ion Ratio Lower Upper
152 100
151 21.3 16.4 24.6
153 13.3 10.4 15.6

Manual Integrations
APPROVED

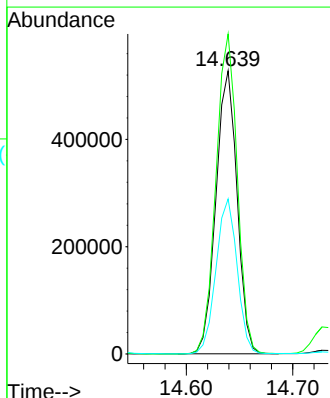
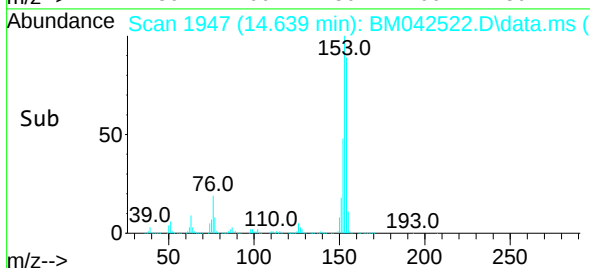
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023

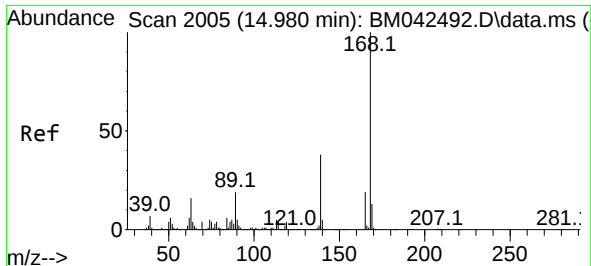


#52
Acenaphthene
Concen: 76.227 ng
RT: 14.639 min Scan# 1947
Delta R.T. -0.006 min
Lab File: BM042522.D
Acq: 31 Oct 2023 21:59



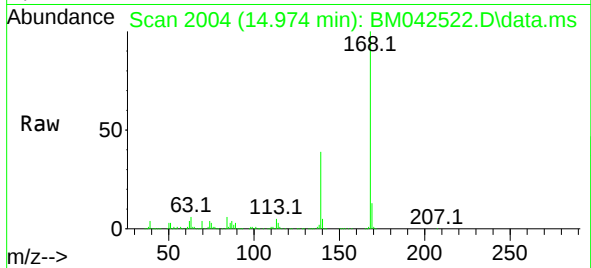
Tgt Ion:154 Resp: 726918
Ion Ratio Lower Upper
154 100
153 113.0 92.0 138.0
152 54.7 44.0 66.0





#55
Dibenzenofuran
Concen: 35.841 ng
RT: 14.974 min Scan# 2005
Delta R.T. -0.006 min
Lab File: BM042522.D
Acq: 31 Oct 2023 21:59

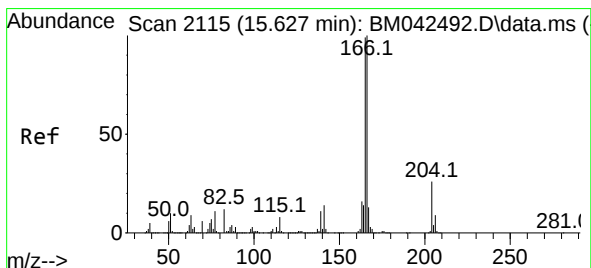
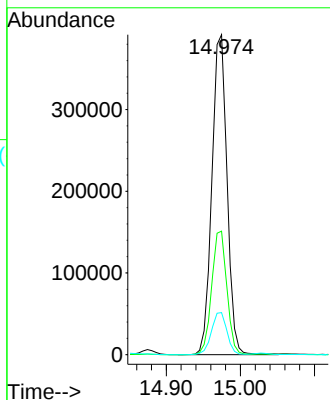
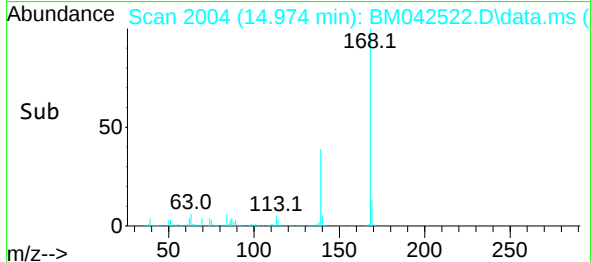
Instrument :
BNA_M
ClientSampleId :
A-5(0-2)



Tgt Ion:168 Resp: 555704
Ion Ratio Lower Upper
168 100
139 38.6 30.4 45.6
169 13.2 10.6 15.8

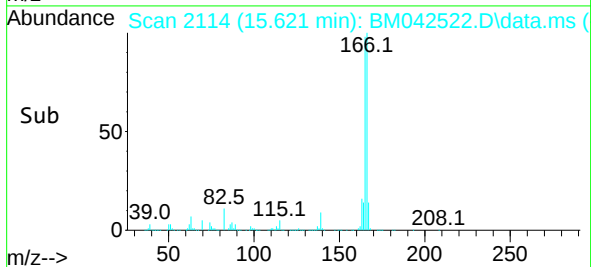
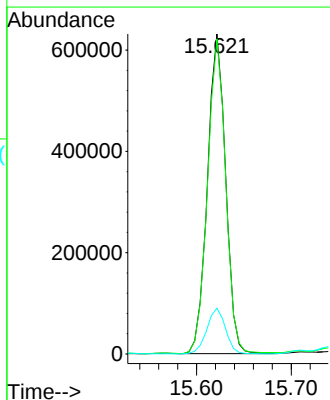
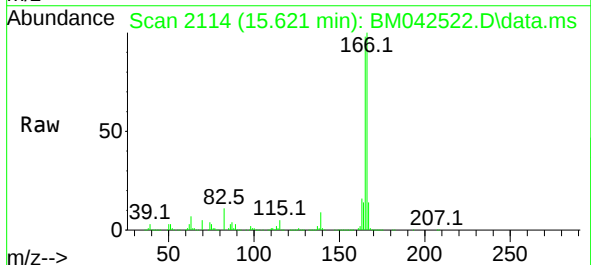
Manual Integrations
APPROVED

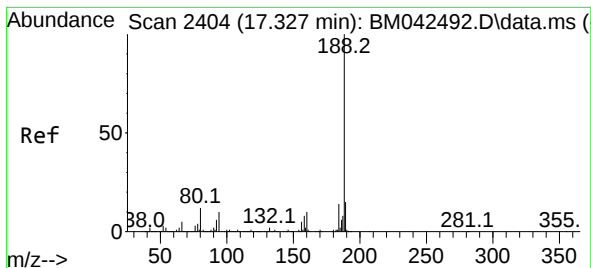
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#58
Fluorene
Concen: 67.009 ng
RT: 15.621 min Scan# 2114
Delta R.T. -0.006 min
Lab File: BM042522.D
Acq: 31 Oct 2023 21:59

Tgt Ion:166 Resp: 840627
Ion Ratio Lower Upper
166 100
165 98.5 79.3 118.9
167 14.3 10.5 15.7





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.333 min Scan# 24

Delta R.T. 0.006 min

Lab File: BM042522.D

Acq: 31 Oct 2023 21:59

Instrument :

BNA_M

ClientSampleId :

A-5(0-2)

Tgt Ion:188 Resp: 37729

Ion Ratio Lower Upper

188 100

94 9.5 8.2 12.4

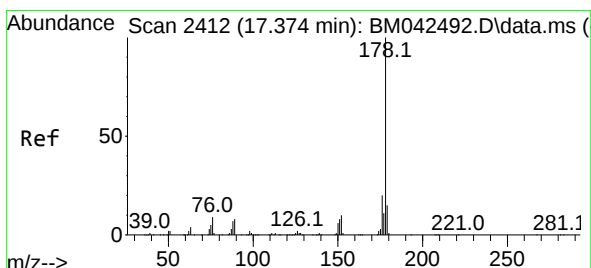
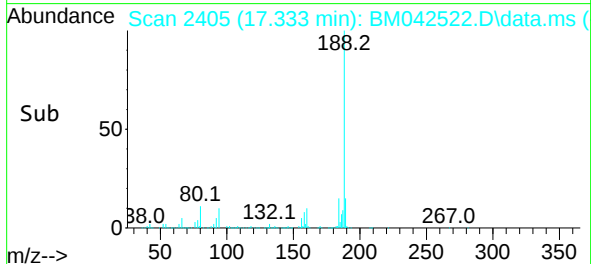
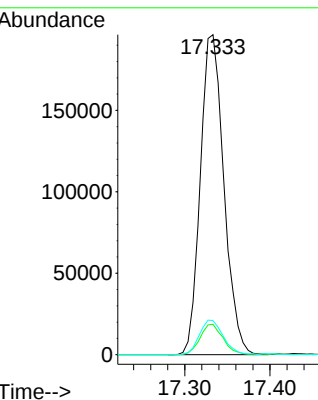
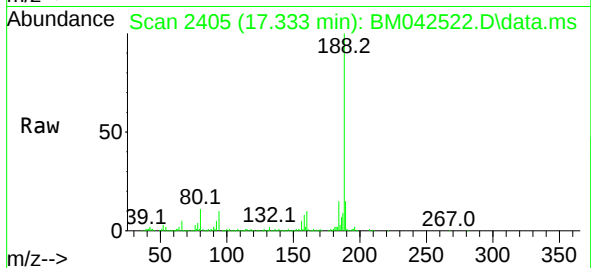
80 10.6 9.4 14.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/01/2023

Supervised By :mohammad ahmed 11/01/2023



#71

Phenanthrene

Concen: 779.282 ng

RT: 17.392 min Scan# 2415

Delta R.T. 0.018 min

Lab File: BM042522.D

Acq: 31 Oct 2023 21:59

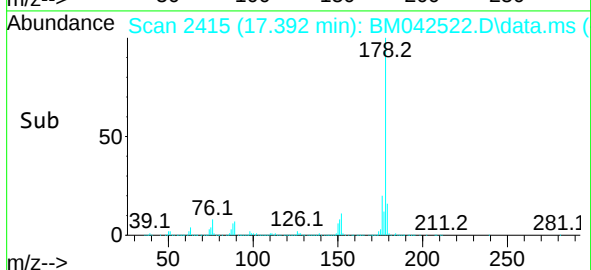
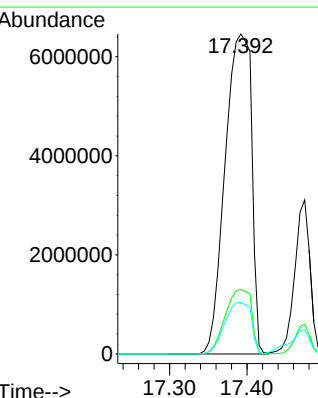
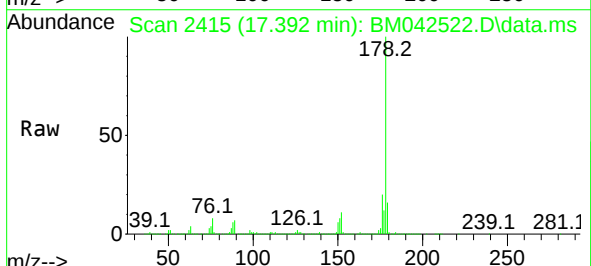
Tgt Ion:178 Resp:15365064

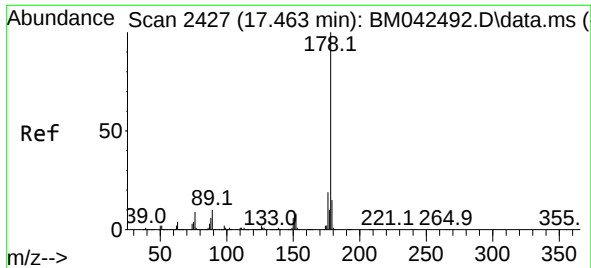
Ion Ratio Lower Upper

178 100

176 20.2 15.8 23.8

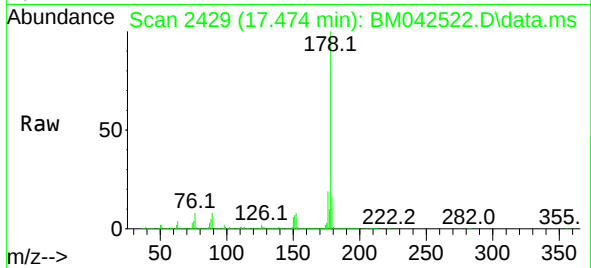
179 16.1 12.2 18.4





#72
 Anthracene
 Concen: 215.253 ng
 RT: 17.474 min Scan# 2427
 Delta R.T. 0.012 min
 Lab File: BM042522.D
 Acq: 31 Oct 2023 21:59

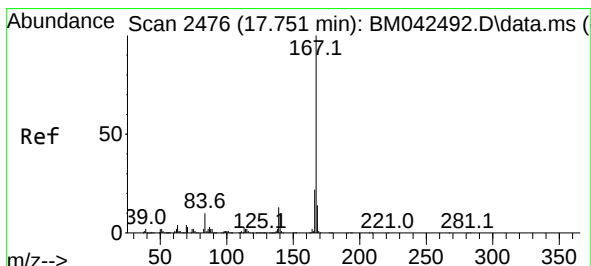
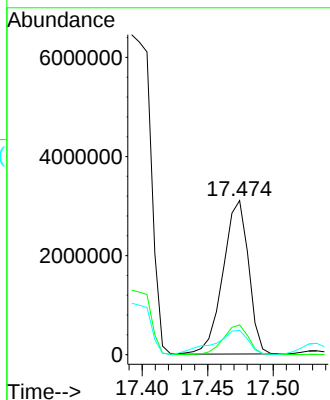
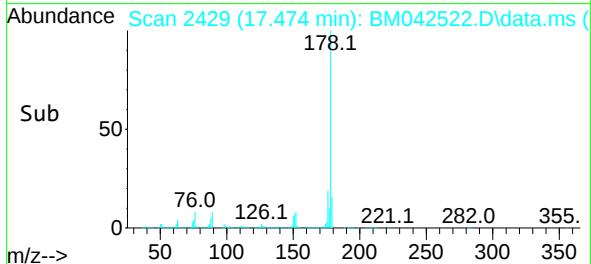
Instrument :
 BNA_M
 ClientSampleId :
 A-5(0-2)



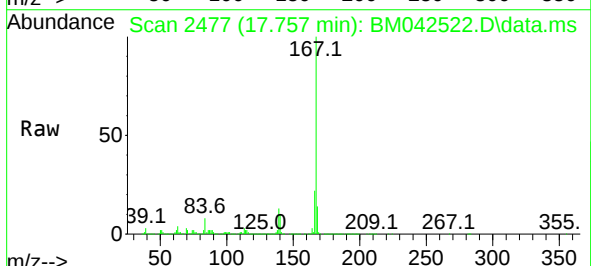
Tgt Ion:178 Resp: 4203764
 Ion Ratio Lower Upper
 178 100
 176 19.3 15.2 22.8
 179 15.8 12.3 18.5

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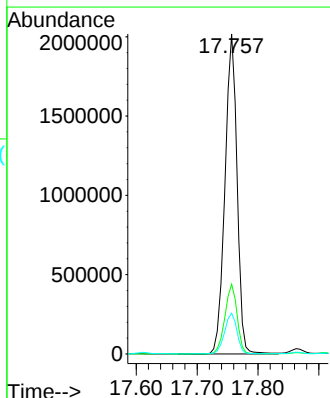
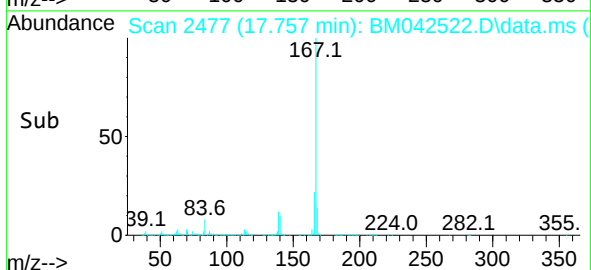
Reviewed By :Yogesh Patel 11/01/2023
 Supervised By :mohammad ahmed 11/01/2023

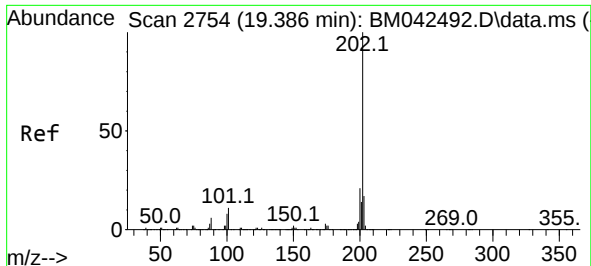


#73
 Carbazole
 Concen: 175.271 ng
 RT: 17.757 min Scan# 2477
 Delta R.T. 0.006 min
 Lab File: BM042522.D
 Acq: 31 Oct 2023 21:59



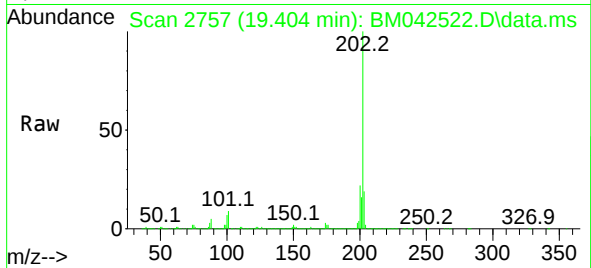
Tgt Ion:167 Resp: 2784624
 Ion Ratio Lower Upper
 167 100
 166 21.8 17.4 26.2
 139 12.8 10.5 15.7





#75
Fluoranthene
Concen: 955.477 ng
RT: 19.404 min Scan# 21
Delta R.T. 0.018 min
Lab File: BM042522.D
Acq: 31 Oct 2023 21:59

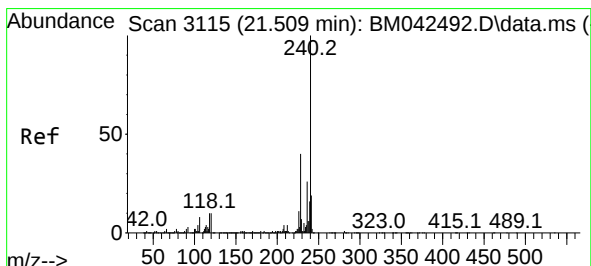
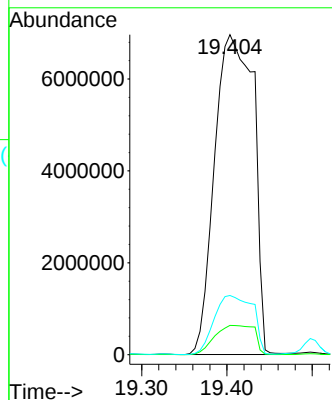
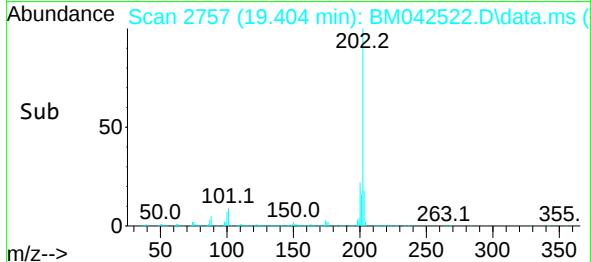
Instrument :
BNA_M
ClientSampleId :
A-5(0-2)



Tgt Ion:202 Resp:2212967
Ion Ratio Lower Upper
202 100
101 9.1 0.0 30.5
203 18.5 0.0 37.0

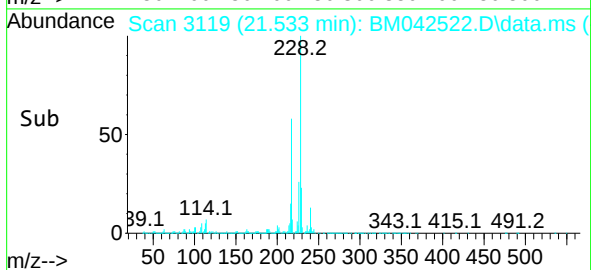
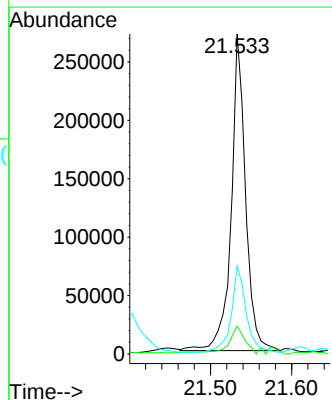
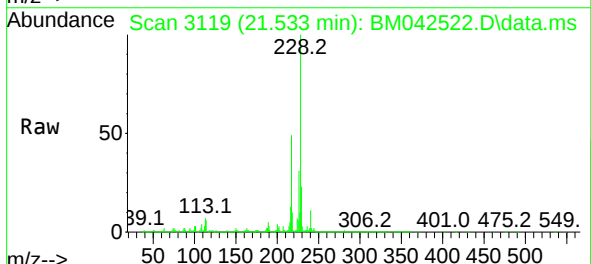
Manual Integrations
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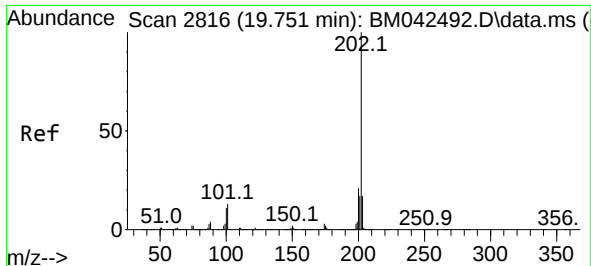
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.533 min Scan# 3119
Delta R.T. 0.024 min
Lab File: BM042522.D
Acq: 31 Oct 2023 21:59

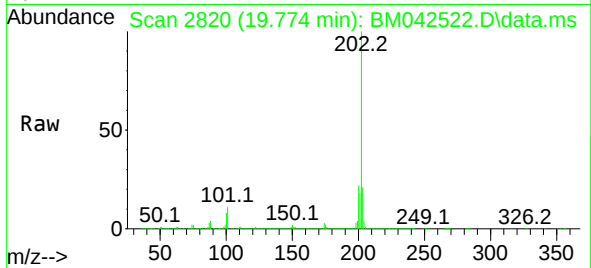
Tgt Ion:240 Resp: 332416
Ion Ratio Lower Upper
240 100
120 8.7 8.3 12.5
236 27.5 20.8 31.2





#78
Pyrene
Concen: 863.030 ng
RT: 19.774 min Scan# 2816
Delta R.T. 0.024 min
Lab File: BM042522.D
Acq: 31 Oct 2023 21:59

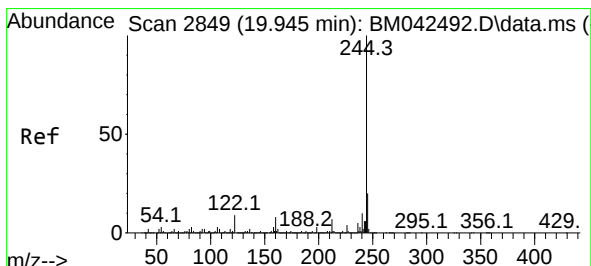
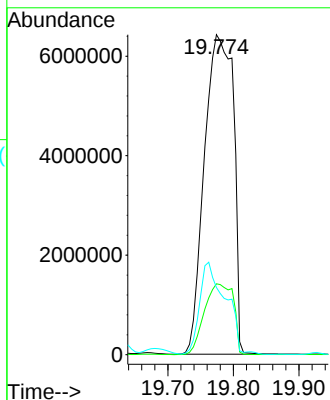
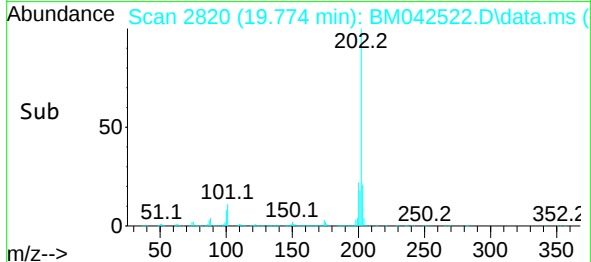
Instrument :
BNA_M
ClientSampleId :
A-5(0-2)



Tgt Ion:202 Resp:1969939
Ion Ratio Lower Upper
202 100
200 22.1 16.9 25.3
203 21.0 13.7 20.5

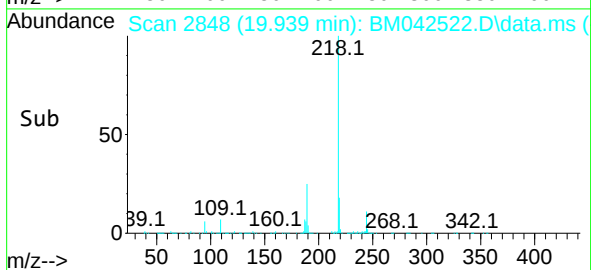
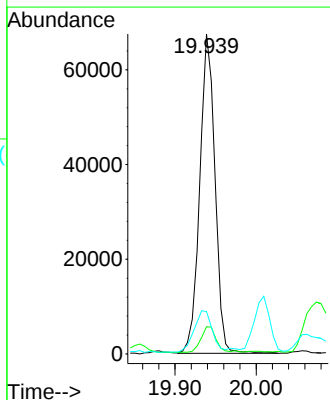
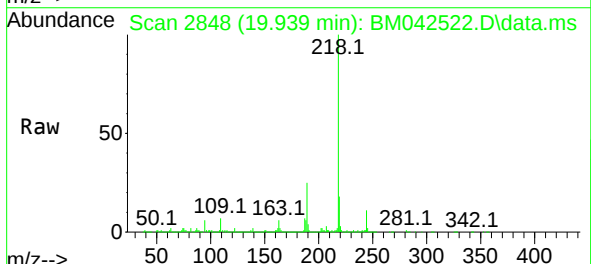
Manual Integrations
APPROVED

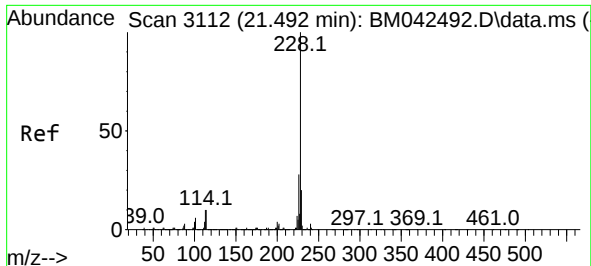
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#79
Terphenyl-d14
Concen: 4.494 ng
RT: 19.939 min Scan# 2848
Delta R.T. -0.006 min
Lab File: BM042522.D
Acq: 31 Oct 2023 21:59

Tgt Ion:244 Resp: 88110
Ion Ratio Lower Upper
244 100
212 8.5 5.4 8.2#
122 13.2 7.2 10.8#





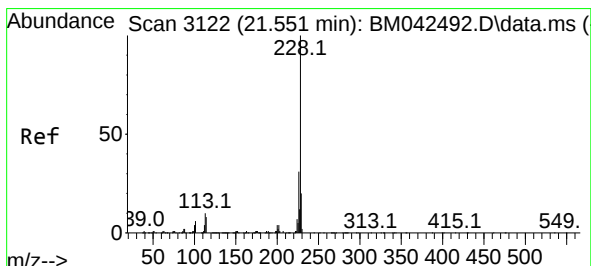
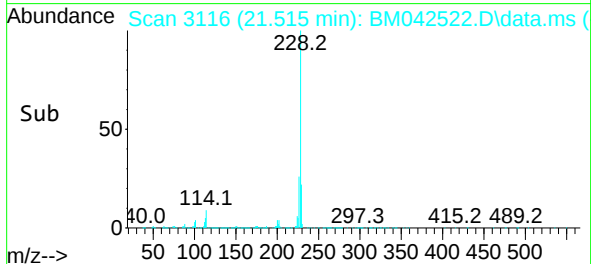
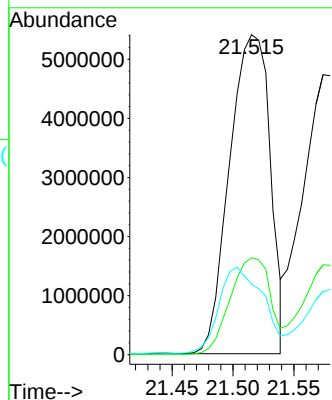
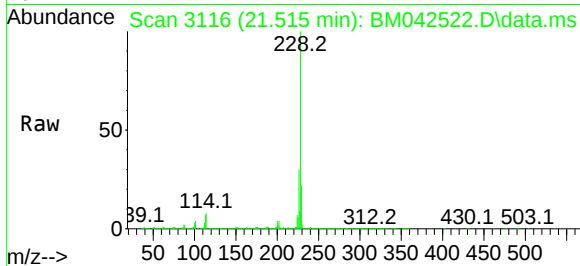
#81
Benzo(a)anthracene
Concen: 593.098 ng
RT: 21.515 min Scan# 3116
Delta R.T. 0.024 min
Lab File: BM042522.D
Acq: 31 Oct 2023 21:59

Instrument :
BNA_M
ClientSampleId :
A-5(0-2)

Tgt Ion:228 Resp:12544056
Ion Ratio Lower Upper
228 100
226 30.3 22.3 33.5
229 22.0 15.8 23.8

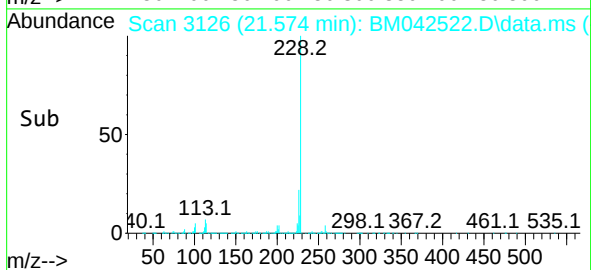
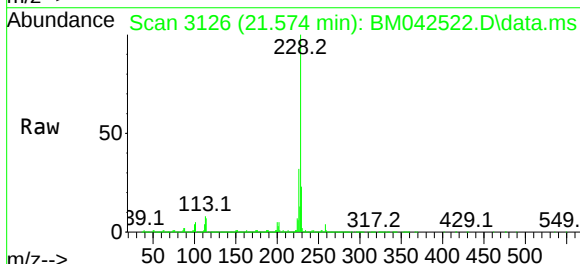
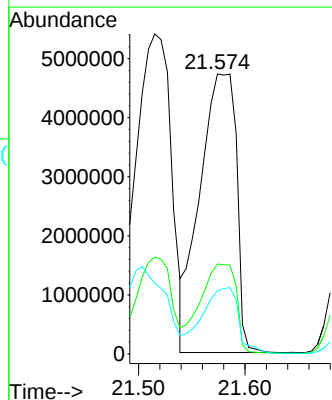
Manual Integrations
APPROVED

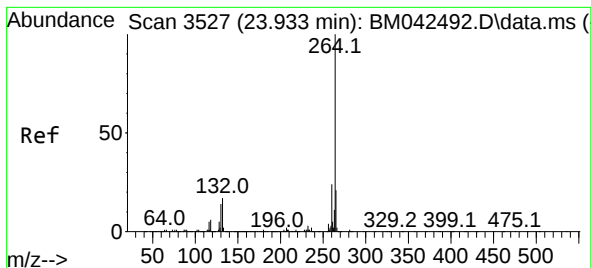
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#83
Chrysene
Concen: 525.198 ng m
RT: 21.574 min Scan# 3126
Delta R.T. 0.024 min
Lab File: BM042522.D
Acq: 31 Oct 2023 21:59

Tgt Ion:228 Resp:11283390
Ion Ratio Lower Upper
228 100
226 32.1 24.4 36.6
229 22.6 15.7 23.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 23.968 min Scan# 3527

Delta R.T. 0.035 min

Lab File: BM042522.D

Acq: 31 Oct 2023 21:59

Instrument :

BNA_M

ClientSampleId :

A-5(0-2)

Tgt Ion:264 Resp: 39410

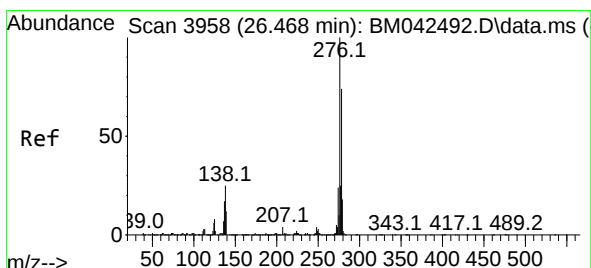
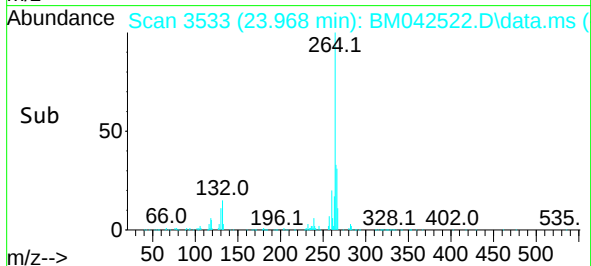
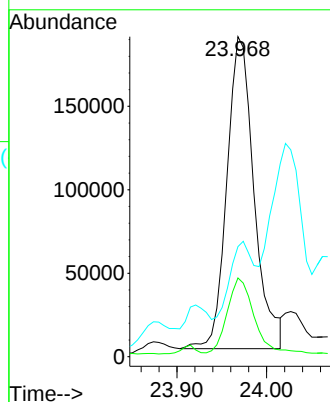
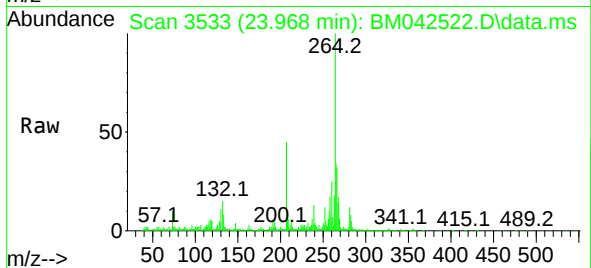
Ion	Ratio	Lower	Upper
264	100		
260	24.6	19.0	28.4
265	34.4	18.7	28.1

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/01/2023

Supervised By :mohammad ahmed 11/01/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 452.050 ng

RT: 26.585 min Scan# 3978

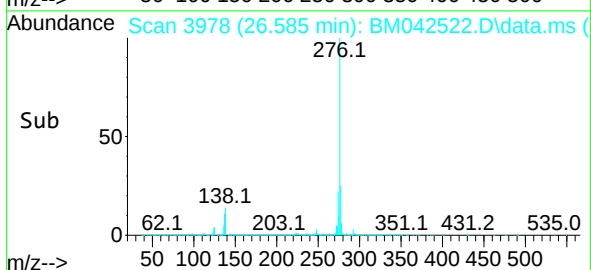
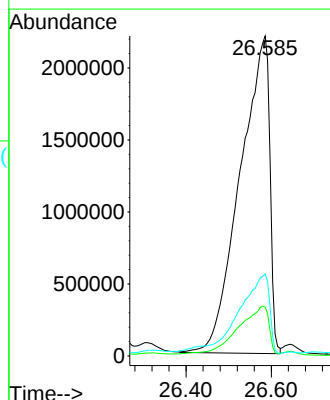
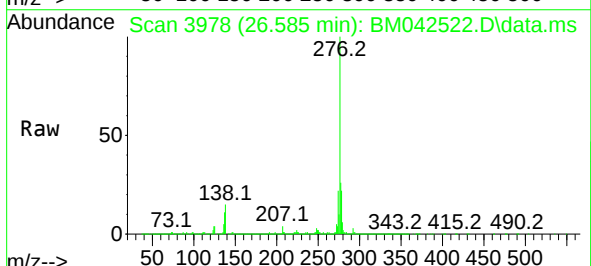
Delta R.T. 0.118 min

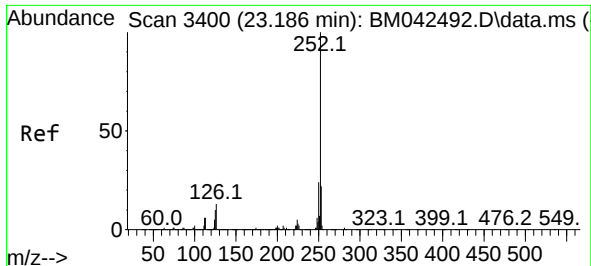
Lab File: BM042522.D

Acq: 31 Oct 2023 21:59

Tgt Ion:276 Resp:10603269

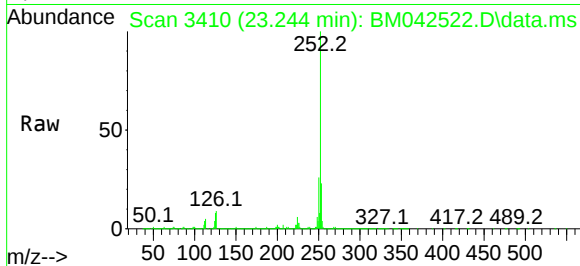
Ion	Ratio	Lower	Upper
276	100		
138	16.1	20.6	31.0
277	26.3	19.5	29.3





#88
Benzo(b)fluoranthene
Concen: 845.976 ng
RT: 23.244 min Scan# 3410
Delta R.T. 0.059 min
Lab File: BM042522.D
Acq: 31 Oct 2023 21:59

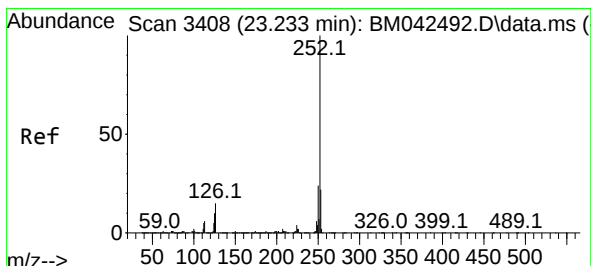
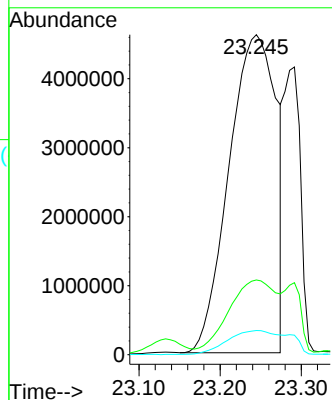
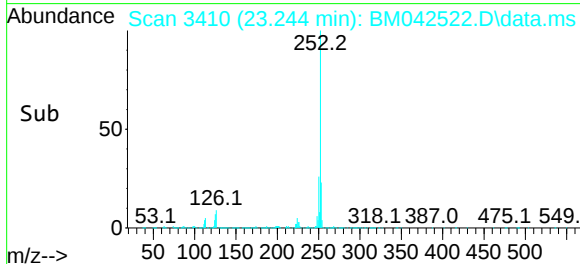
Instrument :
BNA_M
ClientSampleId :
A-5(0-2)



Tgt Ion:252 Resp:18574449
Ion Ratio Lower Upper
252 100
253 23.4 17.5 26.3
125 7.5 7.8 11.6

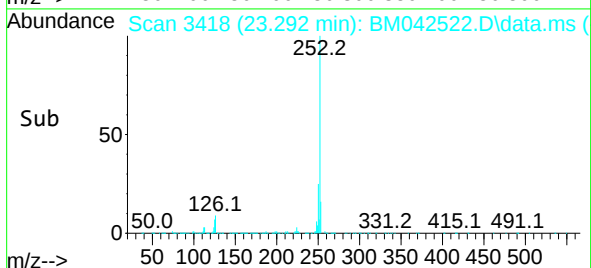
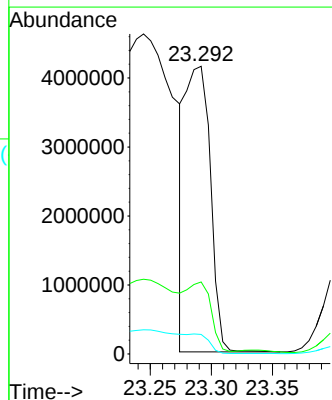
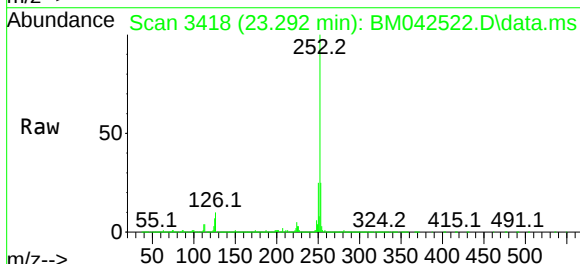
Manual Integrations
APPROVED

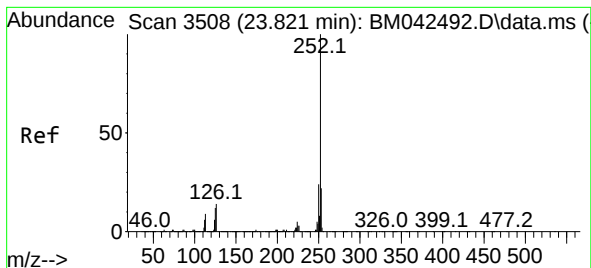
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#89
Benzo(k)fluoranthene
Concen: 238.804 ng m
RT: 23.292 min Scan# 3418
Delta R.T. 0.059 min
Lab File: BM042522.D
Acq: 31 Oct 2023 21:59

Tgt Ion:252 Resp: 5842572
Ion Ratio Lower Upper
252 100
253 25.0 17.6 26.4
125 6.8 8.2 12.4





#90

Benzo(a)pyrene

Concen: 623.375 ng m

RT: 23.897 min Scan# 3

Delta R.T. 0.076 min

Lab File: BM042522.D

Acq: 31 Oct 2023 21:59

Instrument :

BNA_M

ClientSampleId :

A-5(0-2)

Tgt Ion:252 Resp:1347512

Ion Ratio Lower Upper

252 100

253 25.1 17.5 26.3

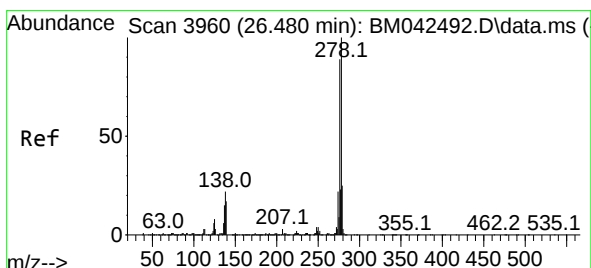
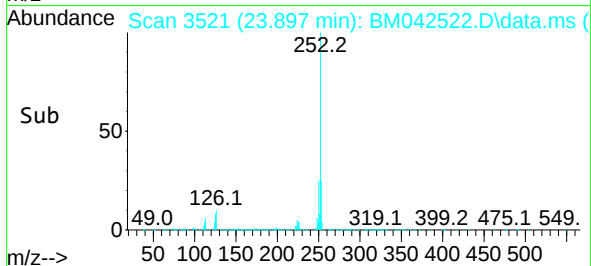
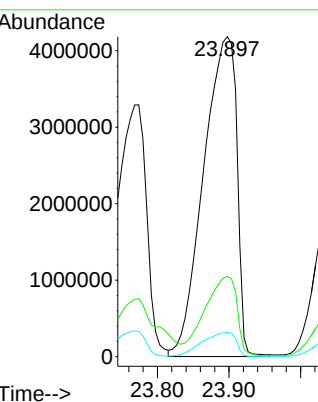
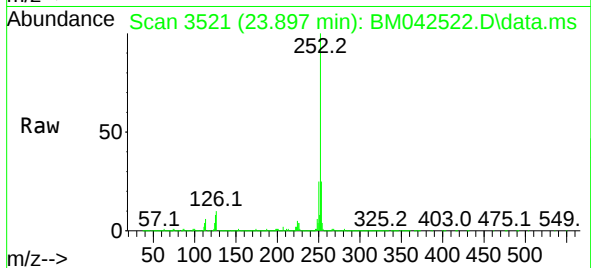
125 7.5 9.4 14.2

Manual Integrations

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#91

Dibenzo(a,h)anthracene

Concen: 105.861 ng m

RT: 26.574 min Scan# 3976

Delta R.T. 0.094 min

Lab File: BM042522.D

Acq: 31 Oct 2023 21:59

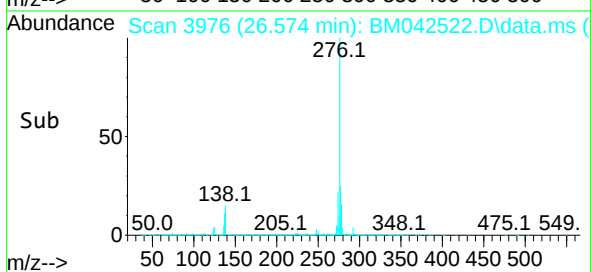
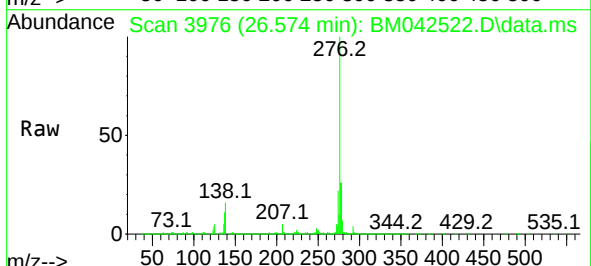
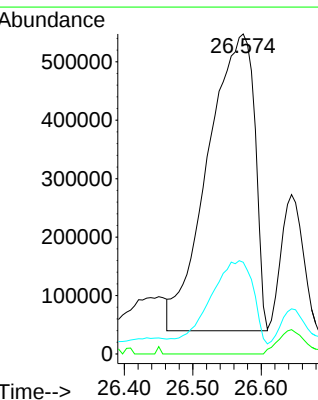
Tgt Ion:278 Resp: 2410523

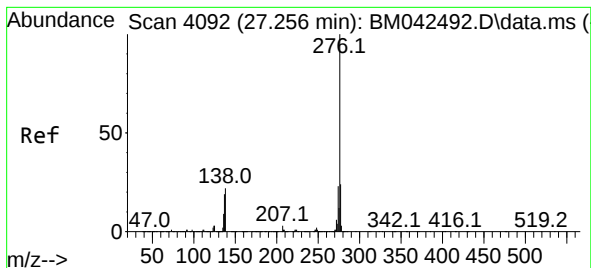
Ion Ratio Lower Upper

278 100

139 0.0 13.4 20.2#

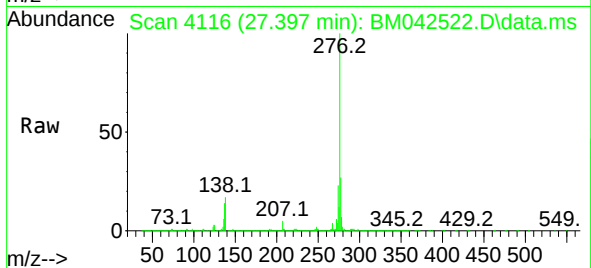
279 28.7 19.7 29.5





#92
 Benzo(g,h,i)perylene
 Concen: 483.758 ng
 RT: 27.397 min Scan# 4116
 Delta R.T. 0.141 min
 Lab File: BM042522.D
 Acq: 31 Oct 2023 21:59

Instrument :
 BNA_M
 ClientSampleId :
 A-5(0-2)



Tgt Ion: 276 Resp: 1000078
 Ion Ratio Lower Upper
 276 100
 277 26.7 19.2 28.8
 138 16.6 17.3 25.9

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 Supervised By : mohammad ahmed 11/01/2023

