

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM103123\
 Data File : BM042524.D
 Acq On : 31 Oct 2023 23:12
 Operator : MA/JU
 Sample : 04938-15 10X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A-8(0-2)

Manual Integrations
 APPROVED

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

Quant Time: Nov 01 01:52:01 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	67169	20.000	ng	0.00
21) Naphthalene-d8	10.739	136	247595	20.000	ng	-0.01
39) Acenaphthene-d10	14.574	164	147741	20.000	ng	0.00
64) Phenanthrene-d10	17.327	188	325650	20.000	ng	0.00
76) Chrysene-d12	21.515	240	371461	20.000	ng	0.00
86) Perylene-d12	23.944	264	397982	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.463	112	32695	7.856	ng	0.00
7) Phenol-d6	7.093	99	39236	6.874	ng	0.00
23) Nitrobenzene-d5	9.122	82	26142	4.922	ng	-0.01
42) 2,4,6-Tribromophenol	16.068	330	14707	7.625	ng	0.00
45) 2-Fluorobiphenyl	13.192	172	54705	4.982	ng	0.00
79) Terphenyl-d14	19.939	244	94908	4.332	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.792	128	51350	4.014	ng	98
49) Acenaphthylene	14.304	152	43354	3.160	ng	98
52) Acenaphthene	14.639	154	240261	28.852	ng	99
55) Dibenzofuran	14.974	168	183013	13.517	ng	100
58) Fluorene	15.621	166	269115	24.566	ng	99
71) Phenanthrene	17.380	178	6549501	384.852	ng	99
72) Anthracene	17.462	178	1299302	77.081	ng	100
73) Carbazole	17.751	167	865335	63.104	ng	100
75) Fluoranthene	19.404	202	12872733	643.934	ng	96
78) Pyrene	19.768	202	11606700	455.041	ng	97
81) Benzo(a)anthracene	21.503	228	6377132	269.825	ng	98
83) Chrysene	21.562	228	5483979	228.427	ng	96
87) Indeno(1,2,3-cd)pyrene	26.521	276	4136846	174.647	ng	# 90
88) Benzo(b)fluoranthene	23.215	252	8699376	392.352	ng	97
89) Benzo(k)fluoranthene	23.256	252	2520570m	102.019	ng	
90) Benzo(a)pyrene	23.856	252	5770650m	264.354	ng	
91) Dibenzo(a,h)anthracene	26.515	278	960644m	44.282	ng	
92) Benzo(g,h,i)perylene	27.327	276	3902236	186.919	ng	# 93

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

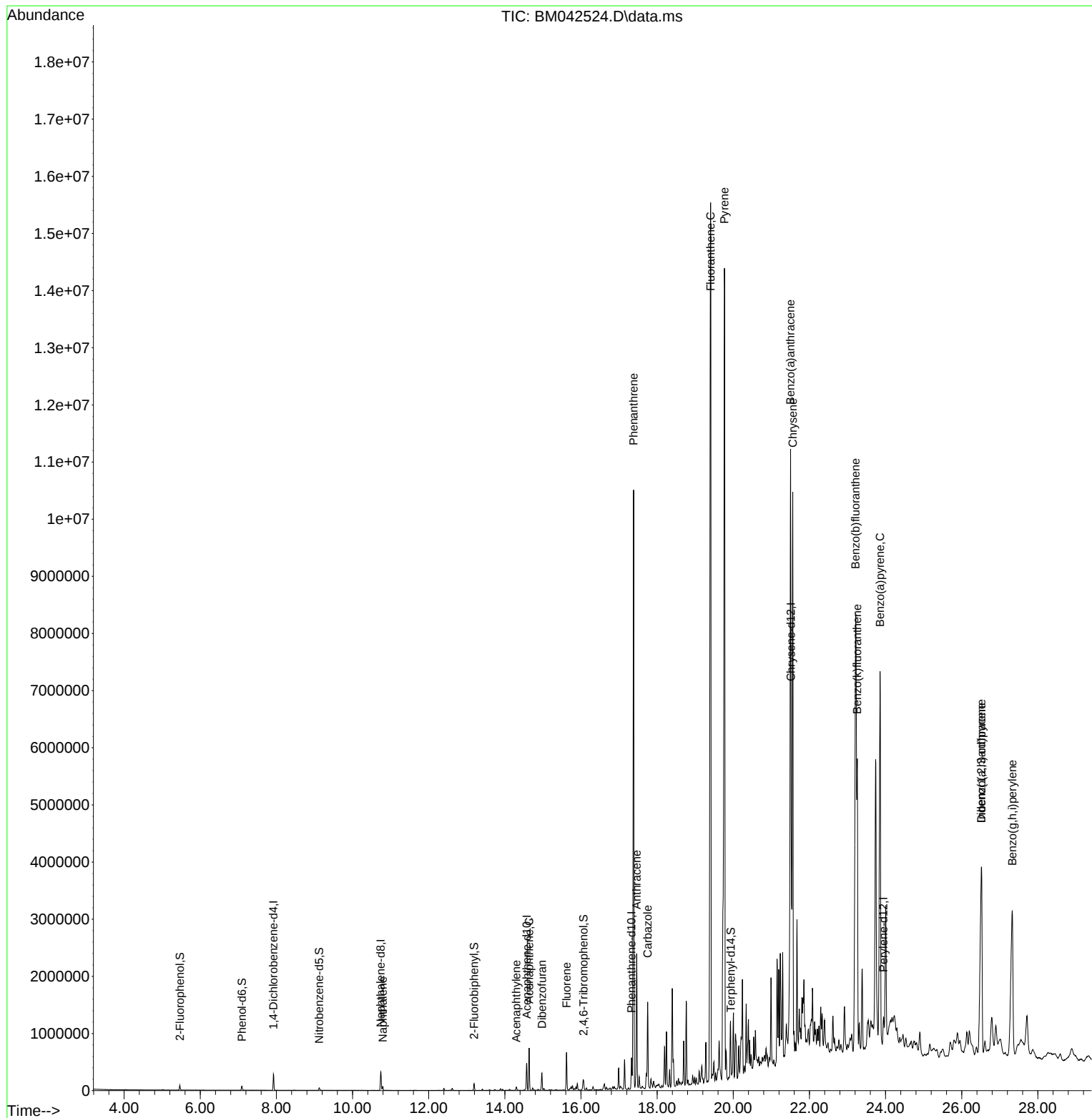
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM103123\
Data File : BM042524.D
Acq On : 31 Oct 2023 23:12
Operator : MA/JU
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ALS Vial : 13 Sample Multiplier: 1

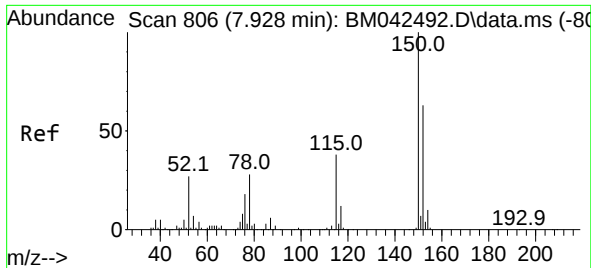
Instrument :
BNA_M
ClientSampleId :
A-8(0-2)

Quant Time: Nov 01 01:52:01 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

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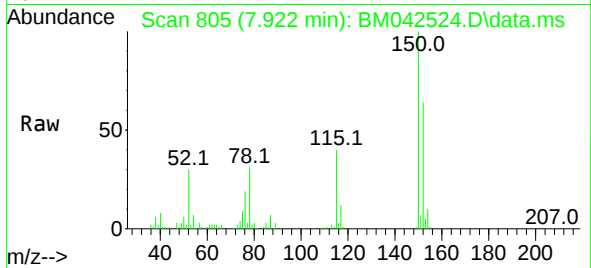
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.922 min Scan# 806
Delta R.T. -0.006 min
Lab File: BM042524.D
Acq: 31 Oct 2023 23:12

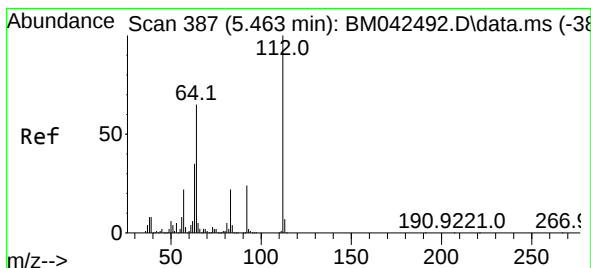
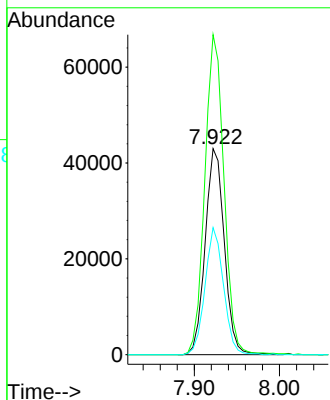
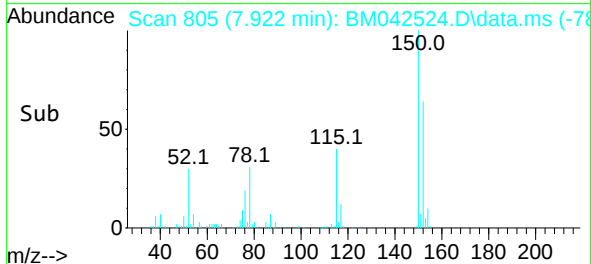
Instrument :
BNA_M
ClientSampleId :
A-8(0-2)



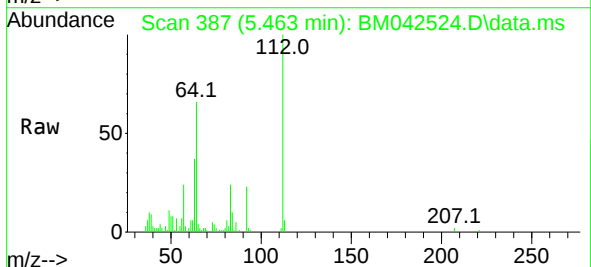
Tgt Ion:152 Resp: 67169
Ion Ratio Lower Upper
152 100
150 155.3 127.4 191.0
115 61.7 47.9 71.9

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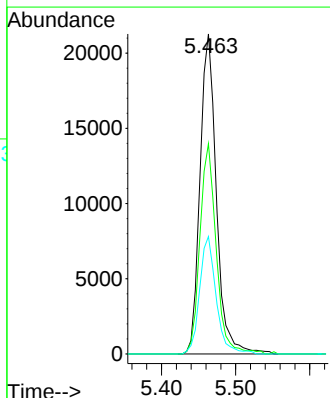
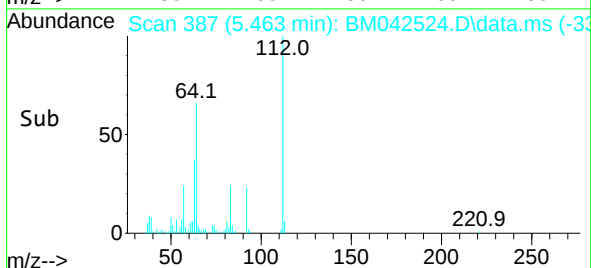
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#5
2-Fluorophenol
Concen: 7.856 ng
RT: 5.463 min Scan# 387
Delta R.T. -0.000 min
Lab File: BM042524.D
Acq: 31 Oct 2023 23:12



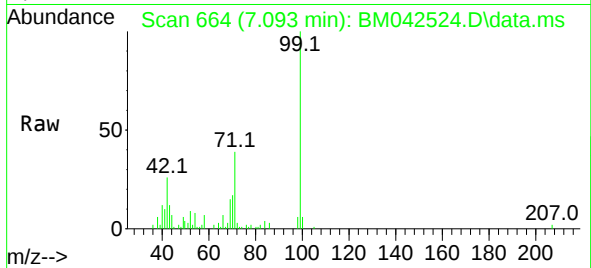
Tgt Ion:112 Resp: 32695
Ion Ratio Lower Upper
112 100
64 65.7 52.1 78.1
63 36.7 28.3 42.5





#7
Phenol-d6
Concen: 6.874 ng
RT: 7.093 min Scan# 60
Delta R.T. -0.006 min
Lab File: BM042524.D
Acq: 31 Oct 2023 23:12

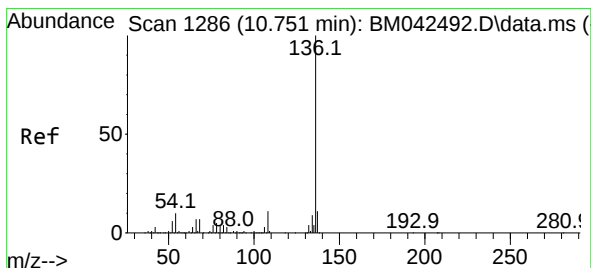
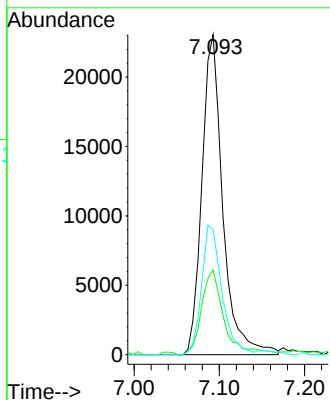
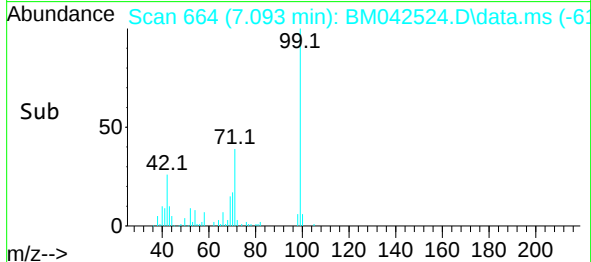
Instrument :
BNA_M
ClientSampleId :
A-8(0-2)



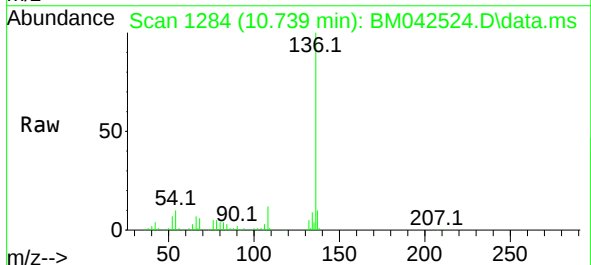
Tgt Ion: 99 Resp: 39230
Ion Ratio Lower Upper
99 100
42 26.5 18.7 28.1
71 39.1 29.1 43.7

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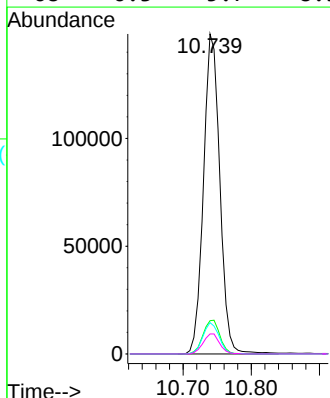
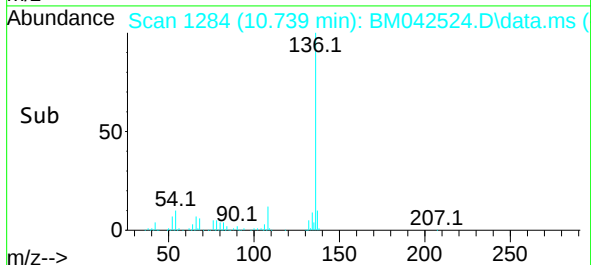
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023

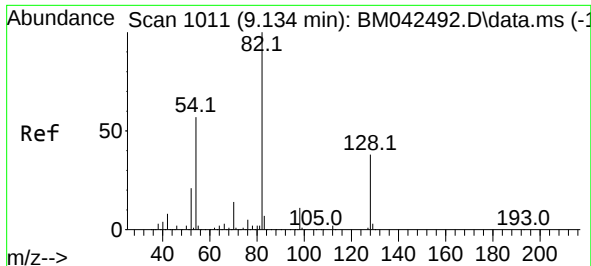


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.739 min Scan# 1284
Delta R.T. -0.012 min
Lab File: BM042524.D
Acq: 31 Oct 2023 23:12



Tgt Ion:136 Resp: 247595
Ion Ratio Lower Upper
136 100
137 10.4 9.0 13.6
54 9.8 8.0 12.0
68 6.3 5.7 8.5





#23

Nitrobenzene-d5

Concen: 4.922 ng

RT: 9.122 min Scan# 1011

Delta R.T. -0.012 min

Lab File: BM042524.D

Acq: 31 Oct 2023 23:12

Instrument :

BNA_M

ClientSampleId :

A-8(0-2)

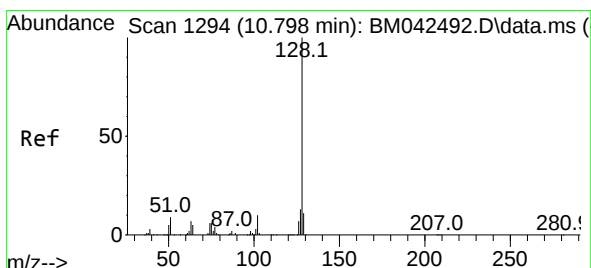
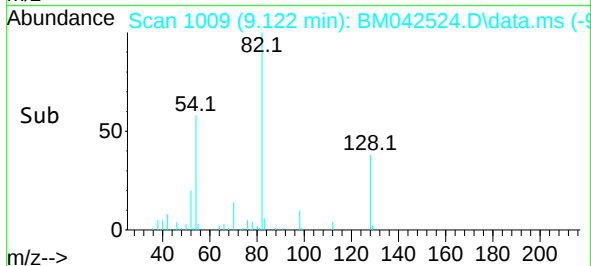
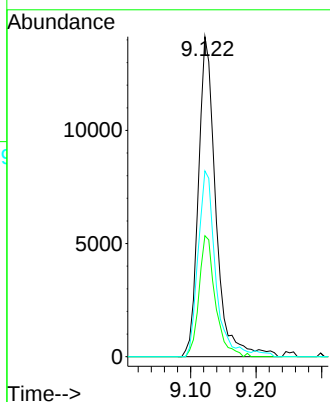
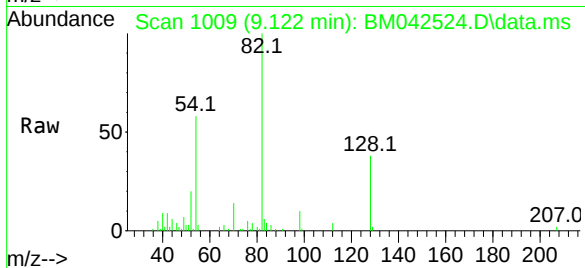
Tgt Ion:	82	Resp:	2614
Ion Ratio	Lower	Upper	
82	100		
128	37.8	30.7	46.1
54	58.0	45.3	67.9

Manual Integrations

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Reviewed By :Yogesh Patel 11/01/2023

Supervised By :mohammad ahmed 11/01/2023



#31

Naphthalene

Concen: 4.014 ng

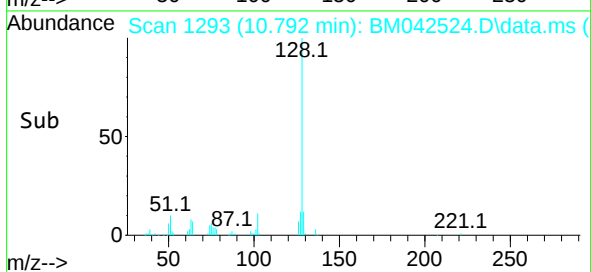
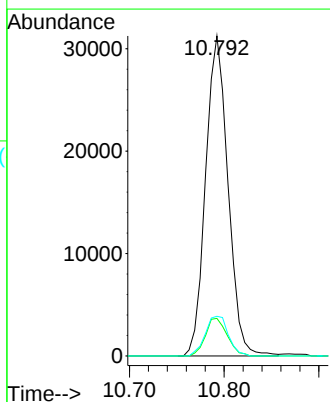
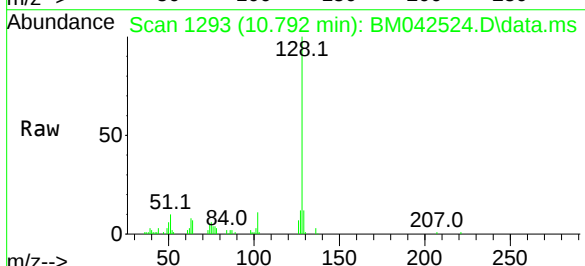
RT: 10.792 min Scan# 1293

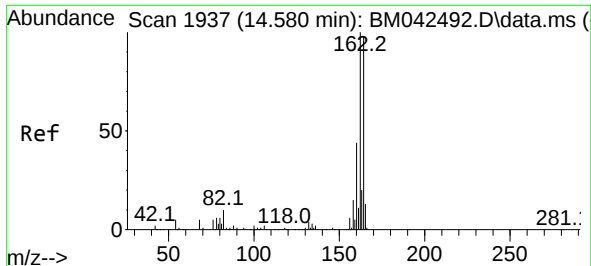
Delta R.T. -0.006 min

Lab File: BM042524.D

Acq: 31 Oct 2023 23:12

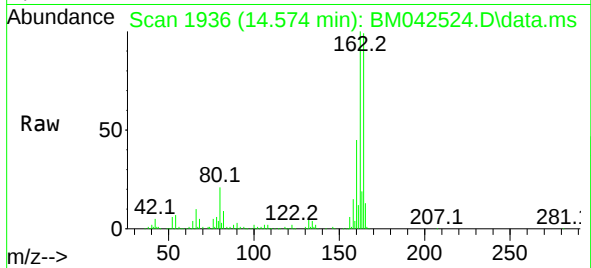
Tgt Ion:	128	Resp:	51350
Ion Ratio	Lower	Upper	
128	100		
129	11.7	8.8	13.2
127	12.4	10.6	15.8





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.574 min Scan# 1936
Delta R.T. -0.006 min
Lab File: BM042524.D
Acq: 31 Oct 2023 23:12

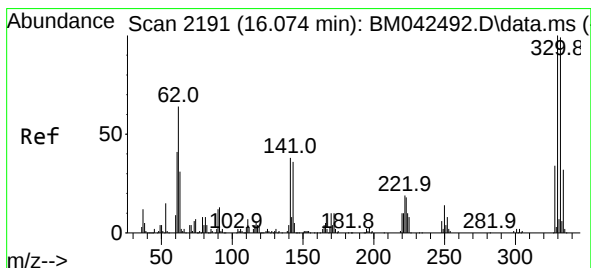
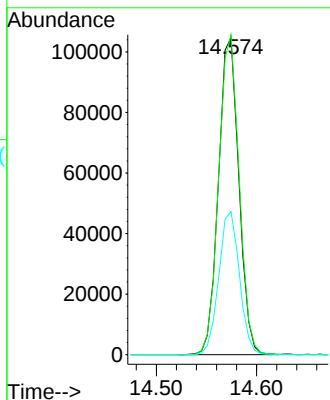
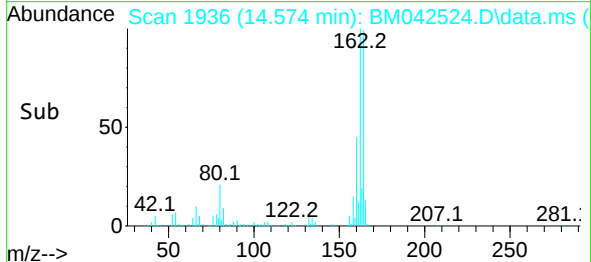
Instrument :
BNA_M
ClientSampleId :
A-8(0-2)



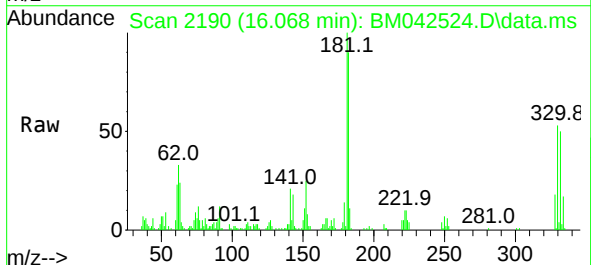
Tgt Ion:164 Resp: 14774
Ion Ratio Lower Upper
164 100
162 101.0 81.6 122.4
160 45.2 36.2 54.4

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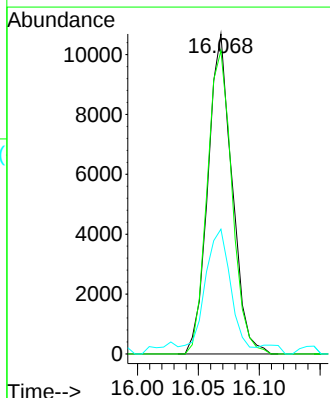
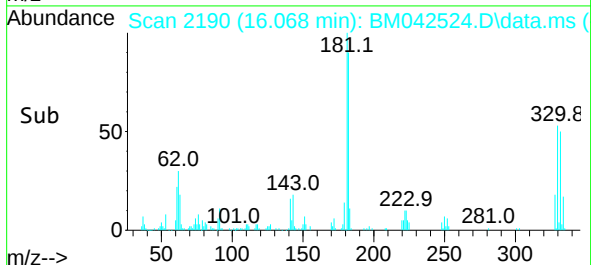
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023

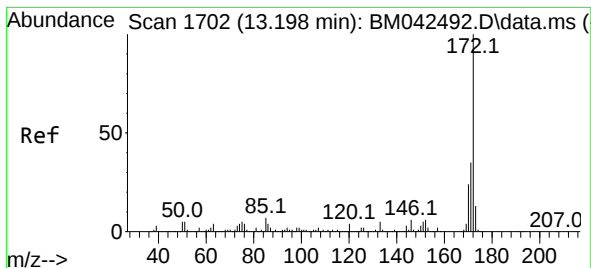


#42
2,4,6-Tribromophenol
Concen: 7.625 ng
RT: 16.068 min Scan# 2190
Delta R.T. -0.006 min
Lab File: BM042524.D
Acq: 31 Oct 2023 23:12



Tgt Ion:330 Resp: 14707
Ion Ratio Lower Upper
330 100
332 97.3 78.8 118.2
141 42.4 31.1 46.7





#45

2-Fluorobiphenyl

Concen: 4.982 ng

RT: 13.192 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM042524.D

Acq: 31 Oct 2023 23:12

Instrument :

BNA_M

ClientSampleId :

A-8(0-2)

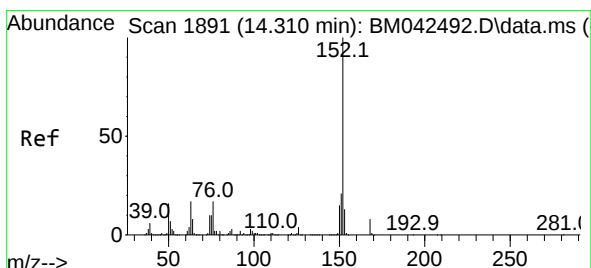
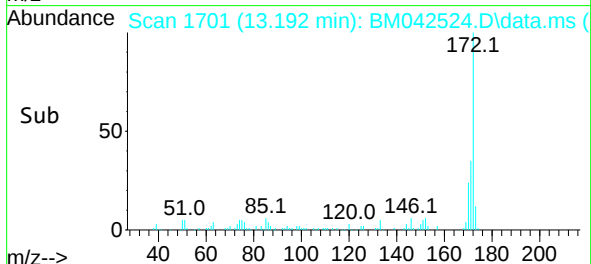
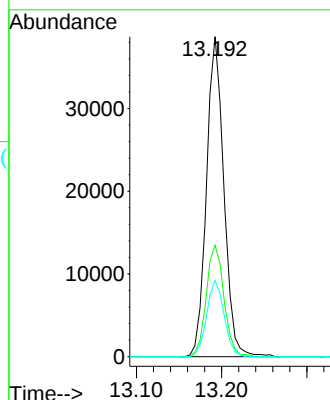
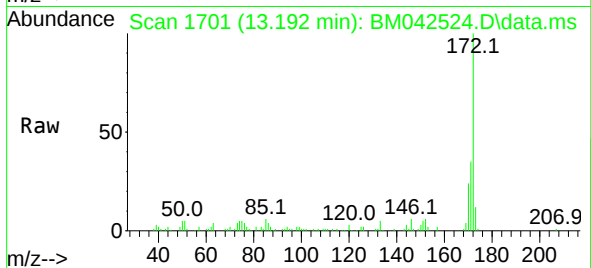
Tgt Ion:172	Resp: 5470
Ion Ratio	Lower Upper
172	100
171	34.8 28.2 42.2
170	23.8 19.0 28.4

Manual Integrations

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Reviewed By :Yogesh Patel 11/01/2023

Supervised By :mohammad ahmed 11/01/2023



#49

Acenaphthylene

Concen: 3.160 ng

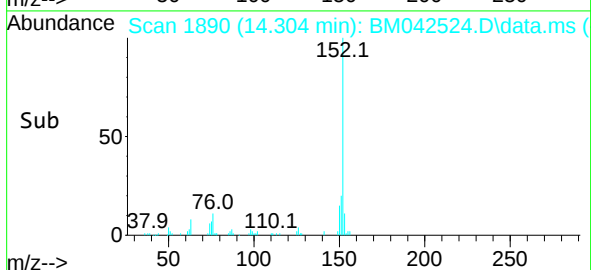
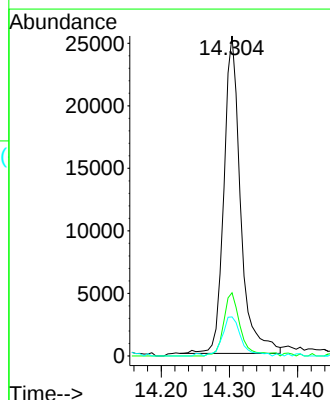
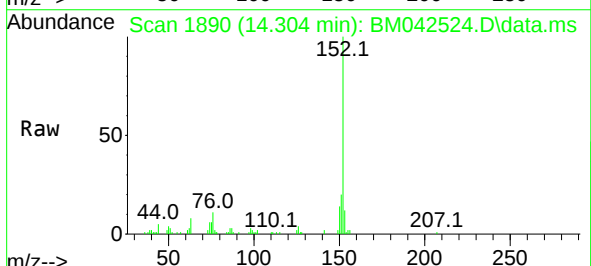
RT: 14.304 min Scan# 1890

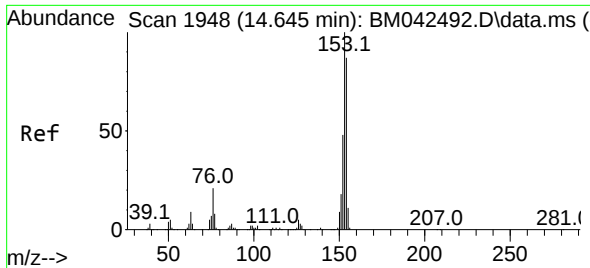
Delta R.T. -0.006 min

Lab File: BM042524.D

Acq: 31 Oct 2023 23:12

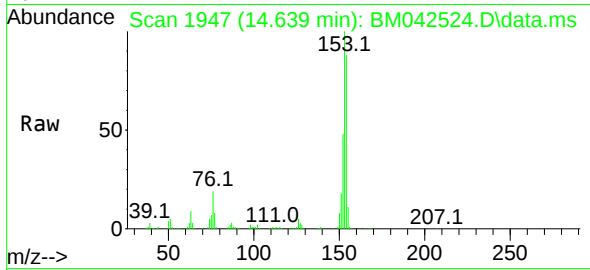
Tgt Ion:152	Resp: 43354
Ion Ratio	Lower Upper
152	100
151	19.8 16.4 24.6
153	12.2 10.4 15.6





#52
Acenaphthene
Concen: 28.852 ng
RT: 14.639 min Scan# 1948
Delta R.T. -0.006 min
Lab File: BM042524.D
Acq: 31 Oct 2023 23:12

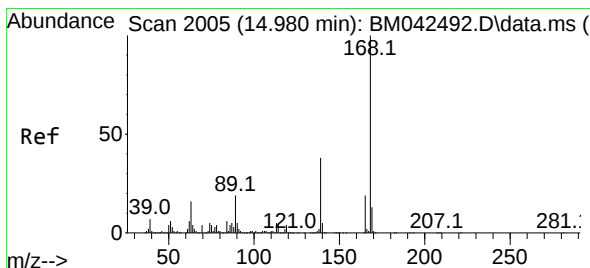
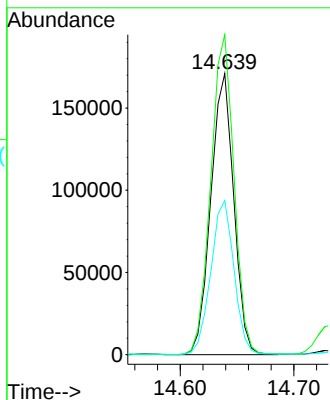
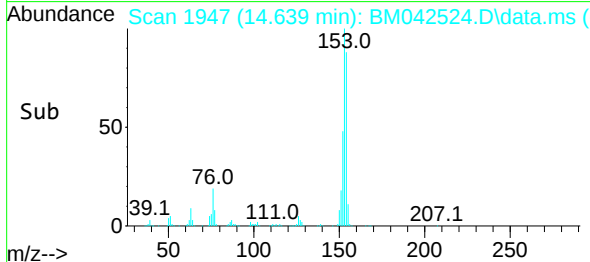
Instrument :
BNA_M
ClientSampleId :
A-8(0-2)



Tgt Ion:154 Resp: 24026
Ion Ratio Lower Upper
154 100
153 113.9 92.0 138.0
152 54.9 44.0 66.0

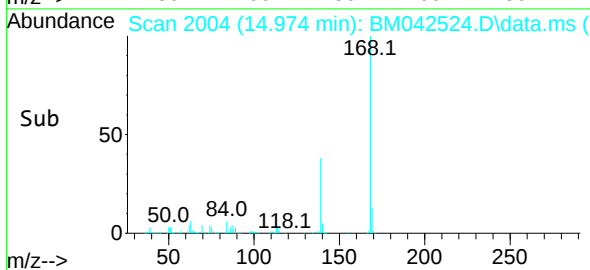
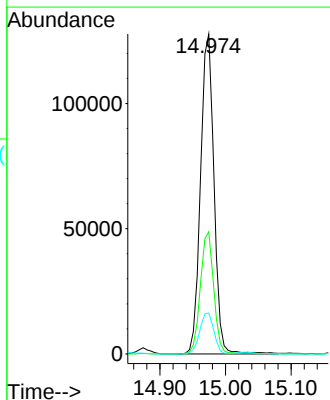
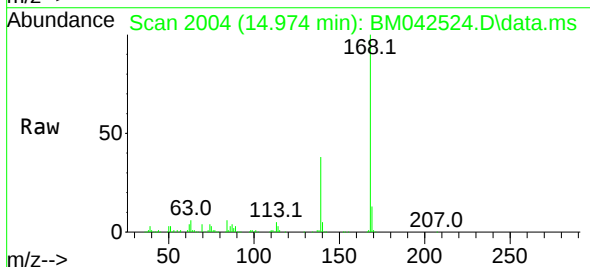
Manual Integrations
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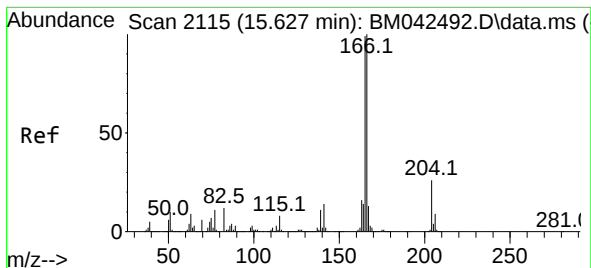
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#55
Dibenzofuran
Concen: 13.517 ng
RT: 14.974 min Scan# 2004
Delta R.T. -0.006 min
Lab File: BM042524.D
Acq: 31 Oct 2023 23:12

Tgt Ion:168 Resp: 183013
Ion Ratio Lower Upper
168 100
139 38.2 30.4 45.6
169 12.8 10.6 15.8





#58

Fluorene

Concen: 24.566 ng

RT: 15.621 min Scan# 2115

Delta R.T. -0.006 min

Lab File: BM042524.D

Acq: 31 Oct 2023 23:12

Instrument :

BNA_M

ClientSampleId :

A-8(0-2)

Tgt Ion:166 Resp: 269115

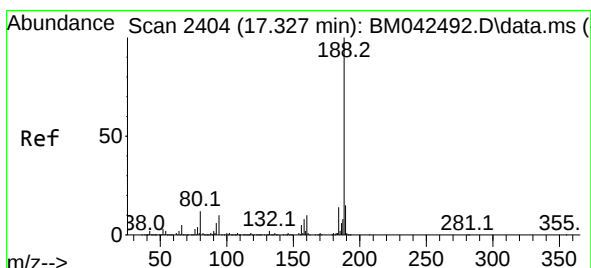
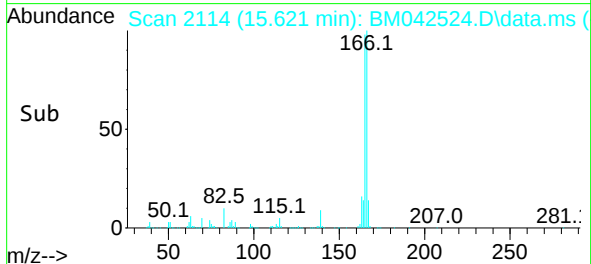
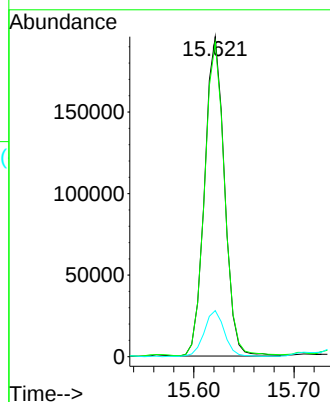
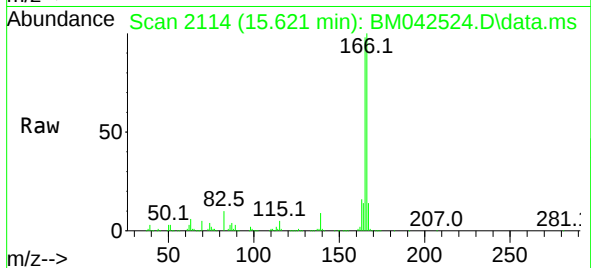
Ion	Ratio	Lower	Upper
166	100		
165	98.3	79.3	118.9
167	14.4	10.5	15.7

Manual Integrations

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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

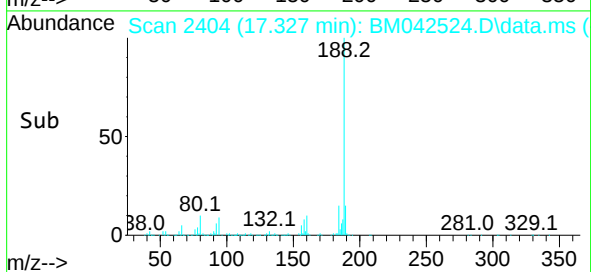
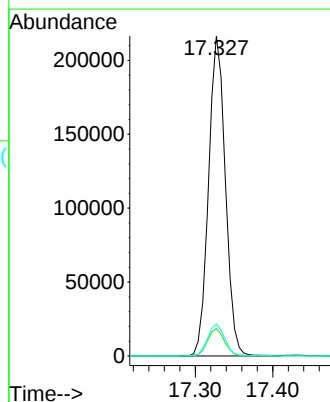
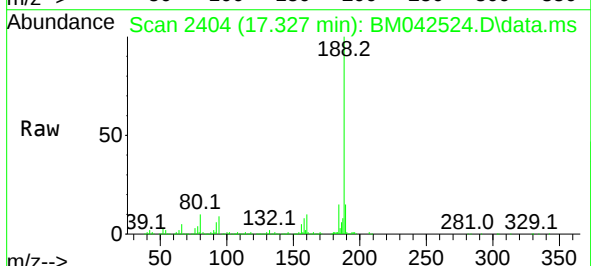
Delta R.T. 0.000 min

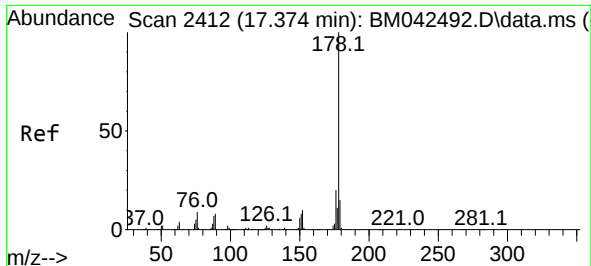
Lab File: BM042524.D

Acq: 31 Oct 2023 23:12

Tgt Ion:188 Resp: 325650

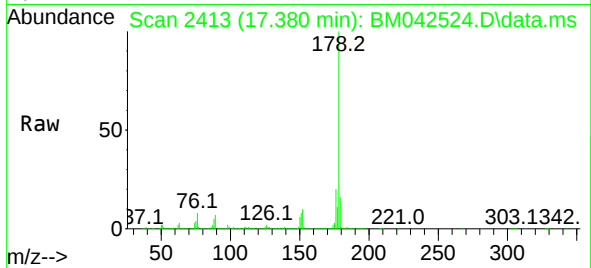
Ion	Ratio	Lower	Upper
188	100		
94	8.6	8.2	12.4
80	10.0	9.4	14.2





#71
Phenanthrene
Concen: 384.852 ng
RT: 17.380 min Scan# 2412
Delta R.T. 0.006 min
Lab File: BM042524.D
Acq: 31 Oct 2023 23:12

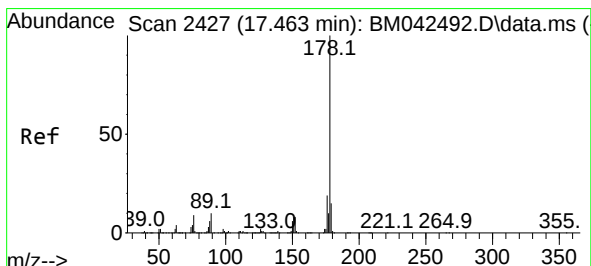
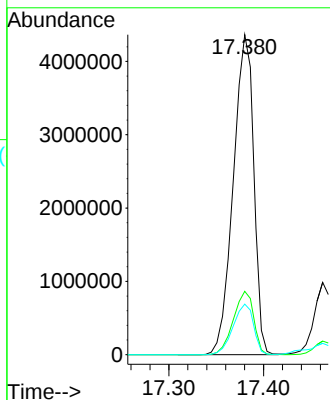
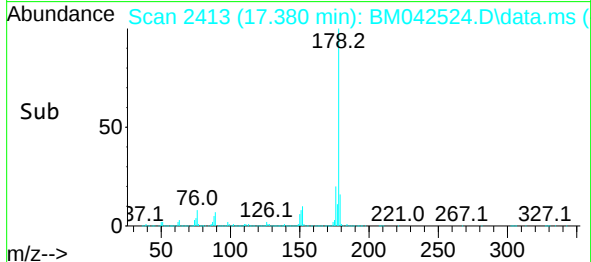
Instrument :
BNA_M
ClientSampleId :
A-8(0-2)



Tgt Ion:178 Resp: 654950
Ion Ratio Lower Upper
178 100
176 19.8 15.8 23.8
179 15.8 12.2 18.4

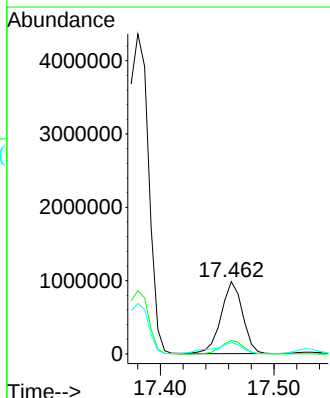
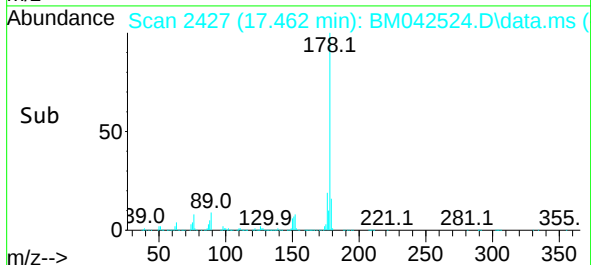
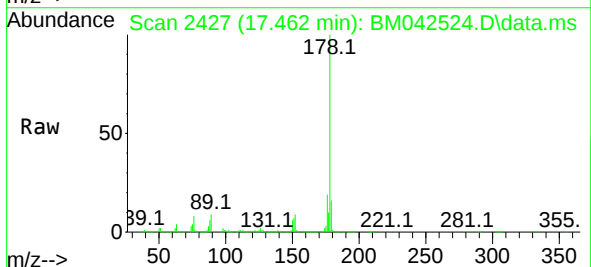
Manual Integrations
APPROVED

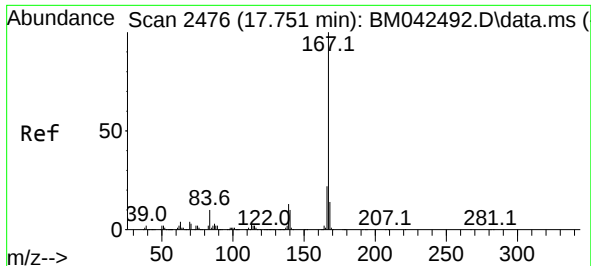
Reviewed By :Yogesh Patel 11/01/2023
Supervised By :mohammad ahmed 11/01/2023



#72
Anthracene
Concen: 77.081 ng
RT: 17.462 min Scan# 2427
Delta R.T. -0.000 min
Lab File: BM042524.D
Acq: 31 Oct 2023 23:12

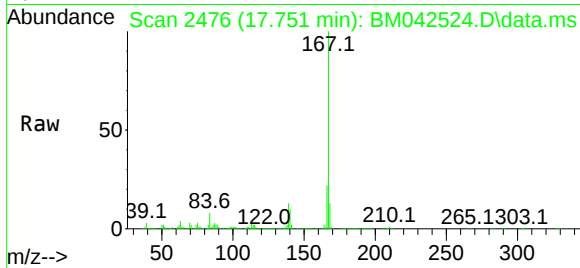
Tgt Ion:178 Resp: 1299302
Ion Ratio Lower Upper
178 100
176 18.9 15.2 22.8
179 15.7 12.3 18.5





#73
 Carbazole
 Concen: 63.104 ng
 RT: 17.751 min Scan# 2476
 Delta R.T. -0.000 min
 Lab File: BM042524.D
 Acq: 31 Oct 2023 23:12

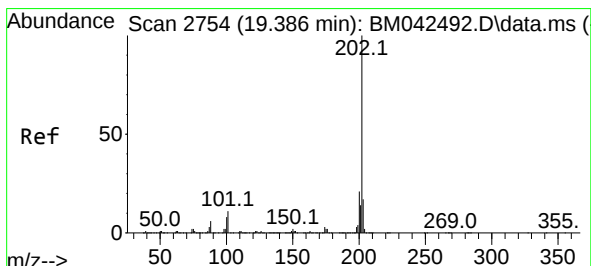
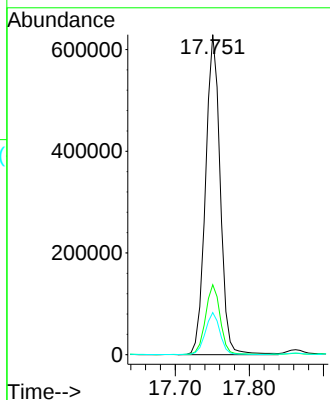
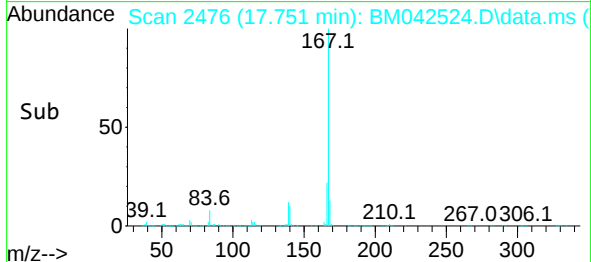
Instrument :
 BNA_M
 ClientSampleId :
 A-8(0-2)



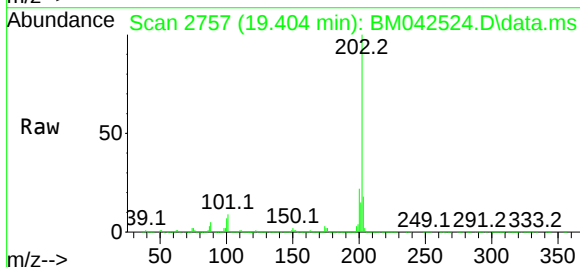
Tgt Ion:167 Resp: 865335
 Ion Ratio Lower Upper
 167 100
 166 21.9 17.4 26.2
 139 13.2 10.5 15.7

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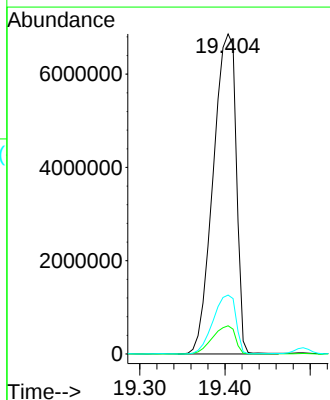
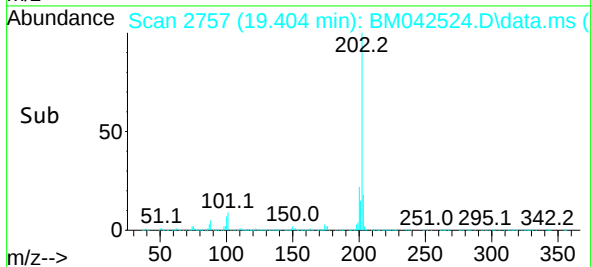
Reviewed By :Yogesh Patel 11/01/2023
 Supervised By :mohammad ahmed 11/01/2023

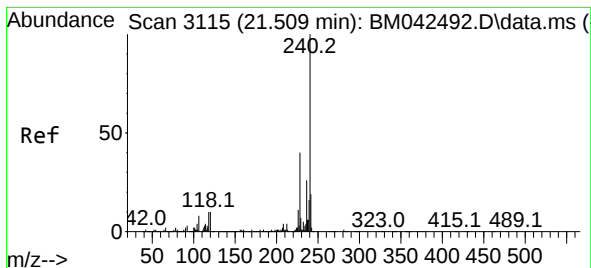


#75
 Fluoranthene
 Concen: 643.934 ng
 RT: 19.404 min Scan# 2757
 Delta R.T. 0.018 min
 Lab File: BM042524.D
 Acq: 31 Oct 2023 23:12



Tgt Ion:202 Resp:12872733
 Ion Ratio Lower Upper
 202 100
 101 8.8 0.0 30.5
 203 18.4 0.0 37.0





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.515 min Scan# 3116

Delta R.T. 0.006 min

Lab File: BM042524.D

Acq: 31 Oct 2023 23:12

Instrument :

BNA_M

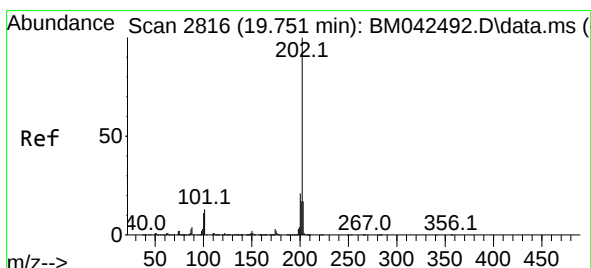
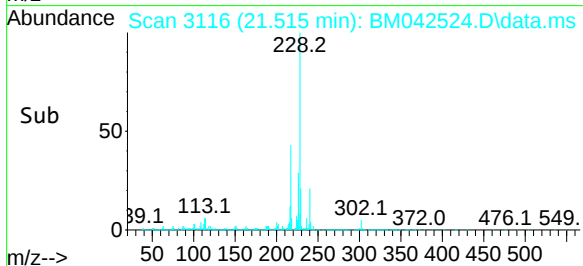
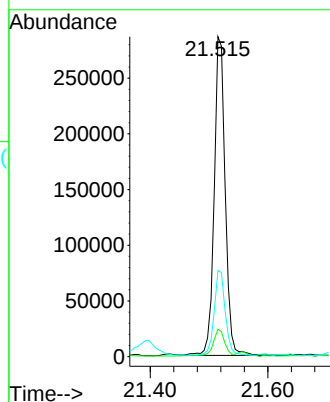
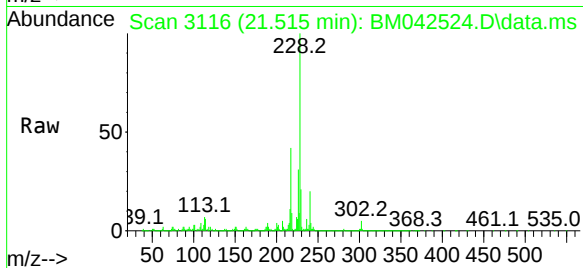
ClientSampleId :

A-8(0-2)

Tgt Ion:240 Resp: 37146
 Ion Ratio Lower Upper
 240 100
 120 8.6 8.3 12.5
 236 26.9 20.8 31.2

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



#78

Pyrene

Concen: 455.041 ng

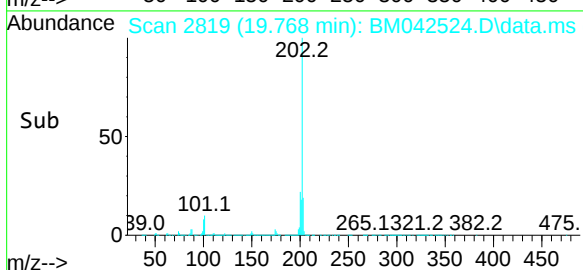
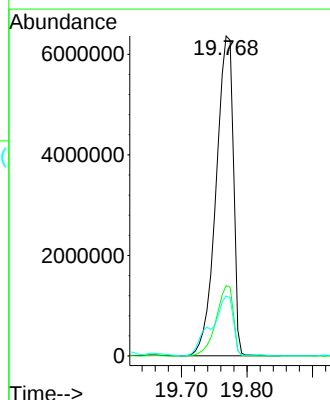
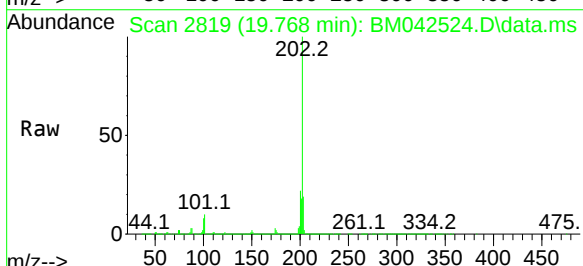
RT: 19.768 min Scan# 2819

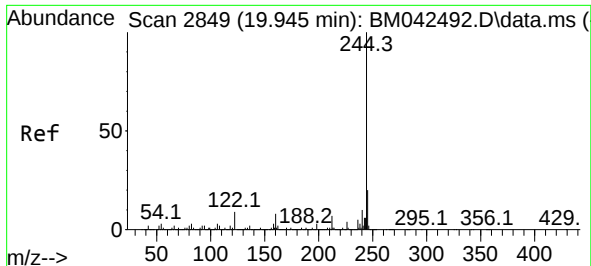
Delta R.T. 0.018 min

Lab File: BM042524.D

Acq: 31 Oct 2023 23:12

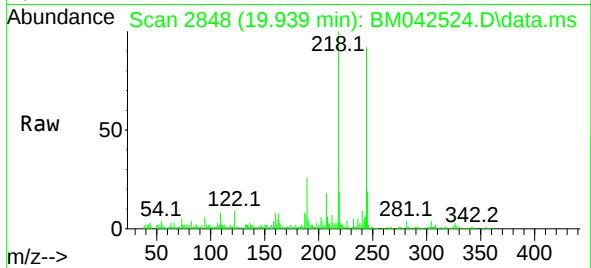
Tgt Ion:202 Resp:11606700
 Ion Ratio Lower Upper
 202 100
 200 22.0 16.9 25.3
 203 18.8 13.7 20.5





#79
 Terphenyl-d14
 Concen: 4.332 ng
 RT: 19.939 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: BM042524.D
 Acq: 31 Oct 2023 23:12

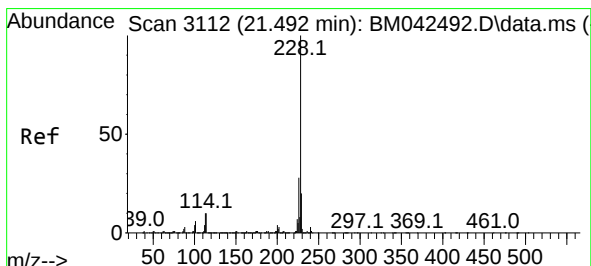
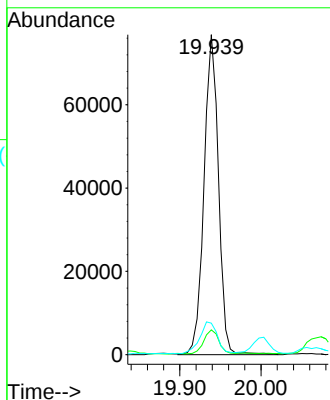
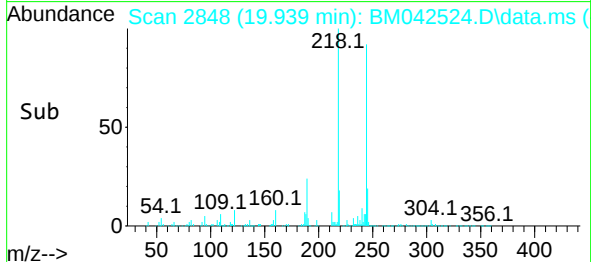
Instrument :
 BNA_M
 ClientSampleId :
 A-8(0-2)



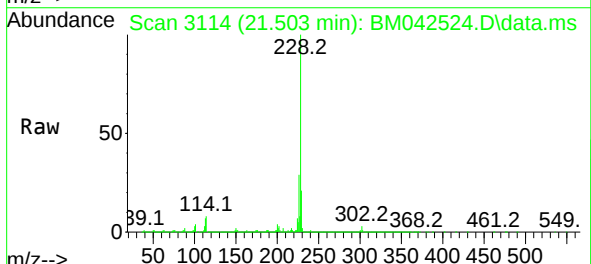
Tgt Ion:244 Resp: 94908
 Ion Ratio Lower Upper
 244 100
 212 7.7 5.4 8.2
 122 9.8 7.2 10.8

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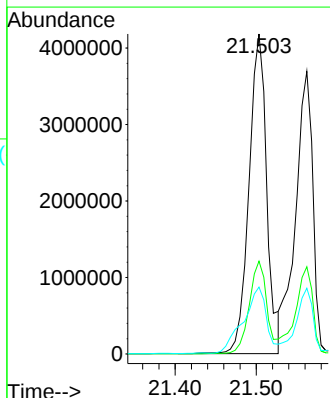
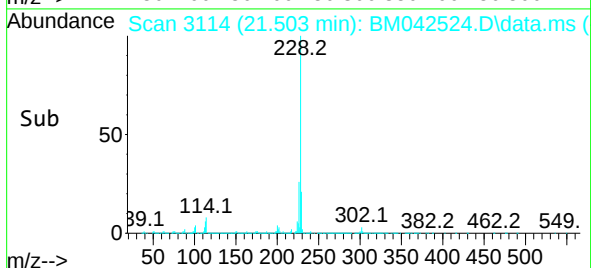
Reviewed By :Yogesh Patel 11/01/2023
 Supervised By :mohammad ahmed 11/01/2023

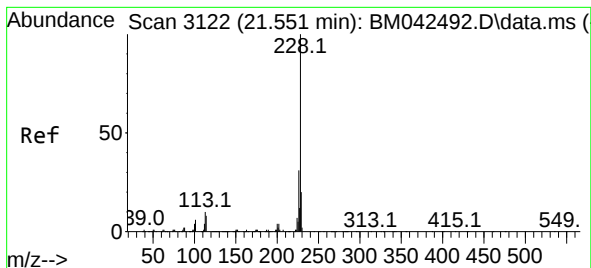


#81
 Benzo(a)anthracene
 Concen: 269.825 ng
 RT: 21.503 min Scan# 3114
 Delta R.T. 0.012 min
 Lab File: BM042524.D
 Acq: 31 Oct 2023 23:12



Tgt Ion:228 Resp: 6377132
 Ion Ratio Lower Upper
 228 100
 226 29.0 22.3 33.5
 229 20.9 15.8 23.8





#83

Chrysene

Concen: 228.427 ng

RT: 21.562 min Scan# 31

Delta R.T. 0.012 min

Lab File: BM042524.D

Acq: 31 Oct 2023 23:12

Instrument :

BNA_M

ClientSampleId :

A-8(0-2)

Tgt Ion:228 Resp: 5483979

Ion Ratio Lower Upper

228 100

226 30.8 24.4 36.6

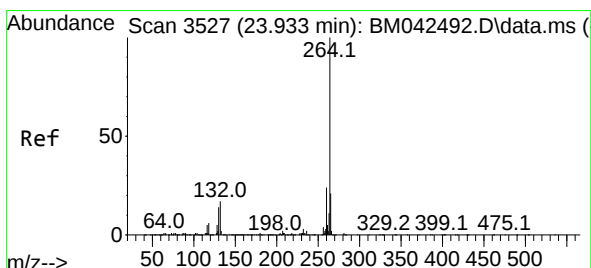
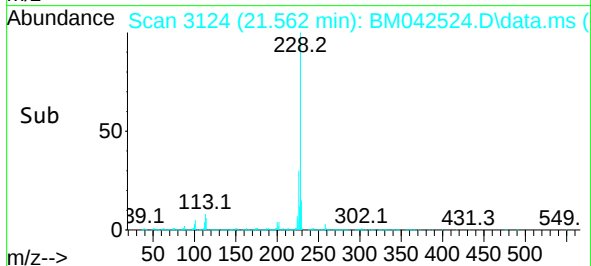
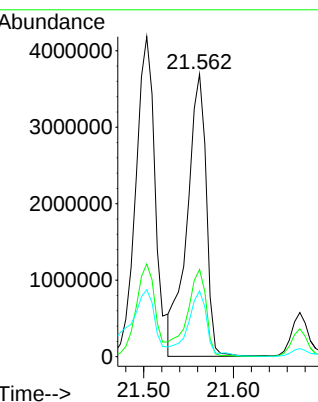
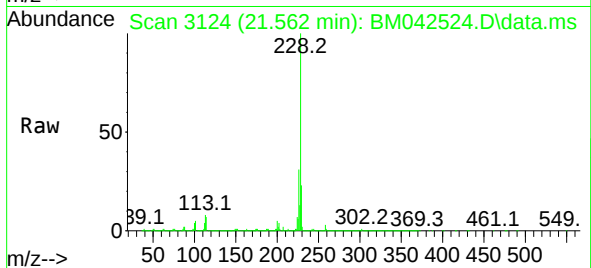
229 23.3 15.7 23.5

Manual Integrations

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Reviewed By :Yogesh Patel 11/01/2023

Supervised By :mohammad ahmed 11/01/2023



#86

Perylene-d12

Concen: 20.000 ng

RT: 23.944 min Scan# 3529

Delta R.T. 0.012 min

Lab File: BM042524.D

Acq: 31 Oct 2023 23:12

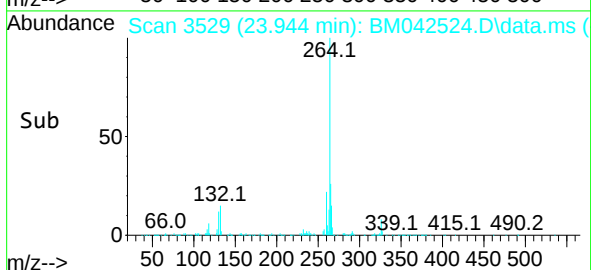
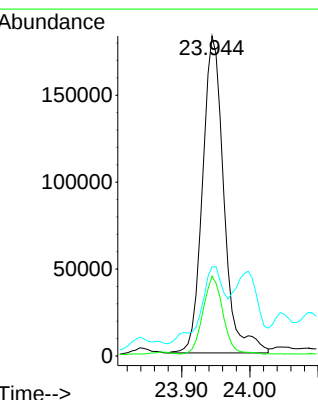
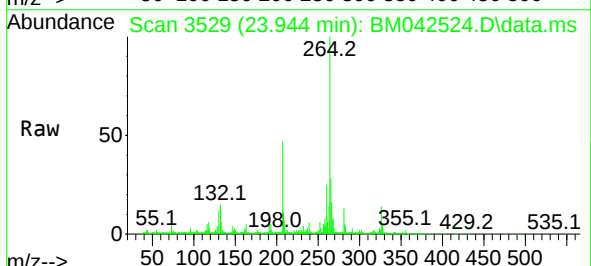
Tgt Ion:264 Resp: 397982

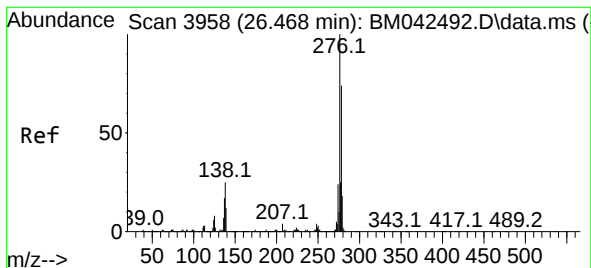
Ion Ratio Lower Upper

264 100

260 24.9 19.0 28.4

265 27.9 18.7 28.1





#87

Indeno(1,2,3-cd)pyrene

Concen: 174.647 ng

RT: 26.521 min Scan# 3405

Delta R.T. 0.053 min

Lab File: BM042524.D

Acq: 31 Oct 2023 23:12

Instrument :

BNA_M

ClientSampleId :

A-8(0-2)

Tgt Ion:276 Resp: 413684

Ion Ratio Lower Upper

276 100

138 15.9 20.6 31.0

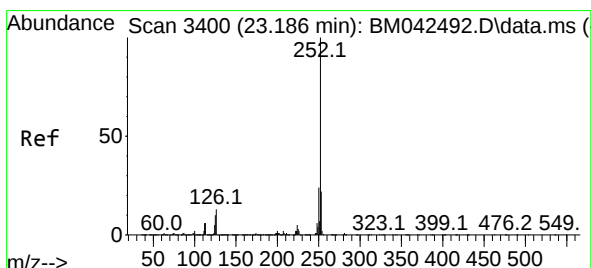
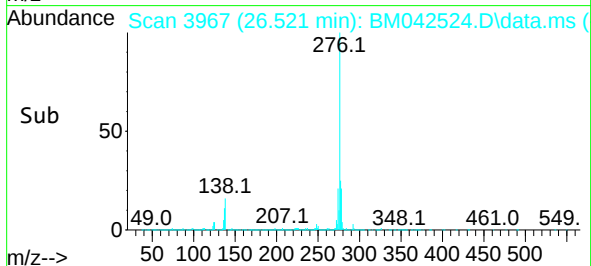
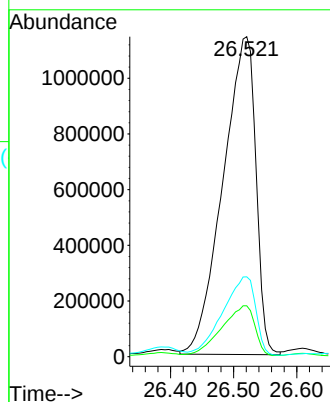
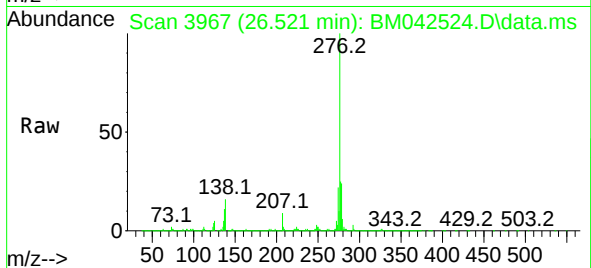
277 24.6 19.5 29.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/01/2023

Supervised By :mohammad ahmed 11/01/2023



#88

Benzo(b)fluoranthene

Concen: 392.352 ng

RT: 23.215 min Scan# 3405

Delta R.T. 0.029 min

Lab File: BM042524.D

Acq: 31 Oct 2023 23:12

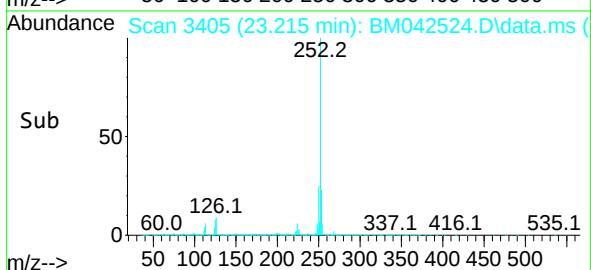
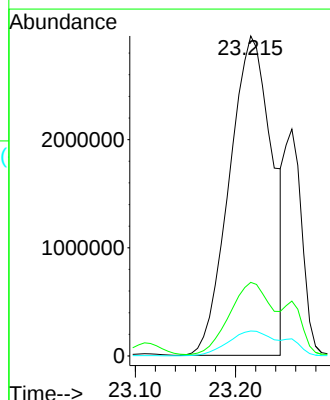
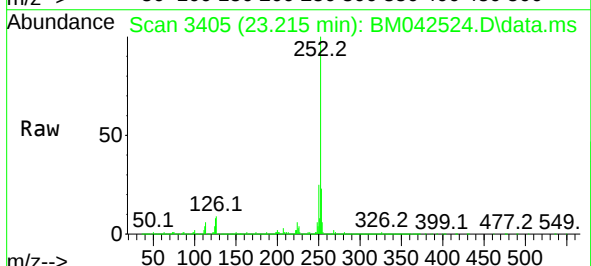
Tgt Ion:252 Resp: 8699376

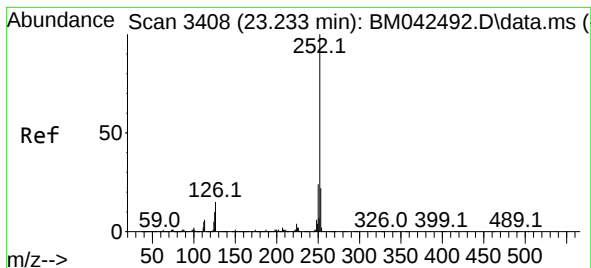
Ion Ratio Lower Upper

252 100

253 23.0 17.5 26.3

125 7.8 7.8 11.6





#89

Benzo(k)fluoranthene

Concen: 102.019 ng m

RT: 23.256 min Scan# 34

Delta R.T. 0.023 min

Lab File: BM042524.D

Acq: 31 Oct 2023 23:12

Instrument :

BNA_M

ClientSampleId :

A-8(0-2)

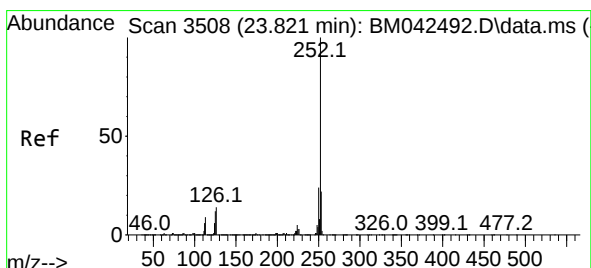
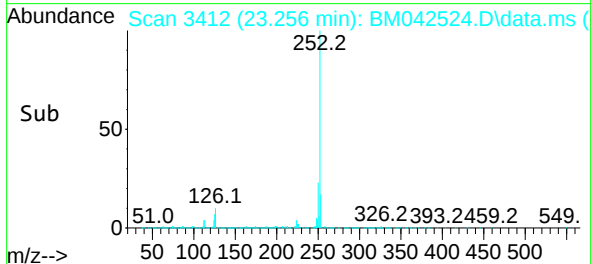
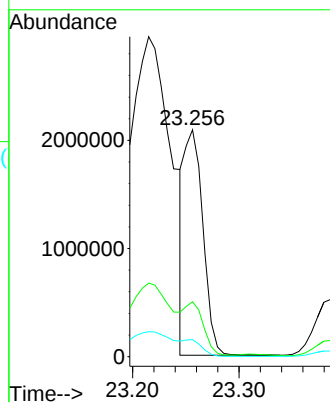
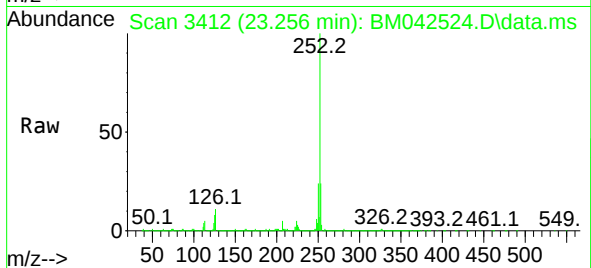
Tgt Ion:252 Resp: 2520570
 Ion Ratio Lower Upper
 252 100
 253 24.2 17.6 26.4
 125 7.5 8.2 12.4

Manual Integrations

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Reviewed By :Yogesh Patel 11/01/2023

Supervised By :mohammad ahmed 11/01/2023



#90

Benzo(a)pyrene

Concen: 264.354 ng m

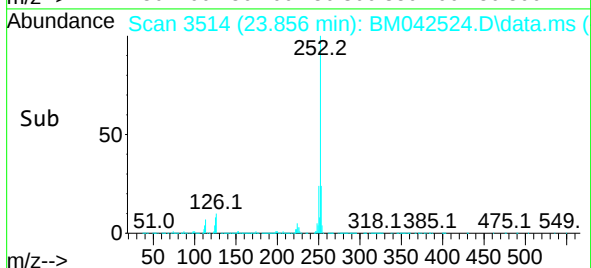
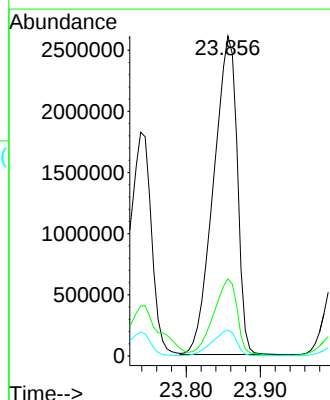
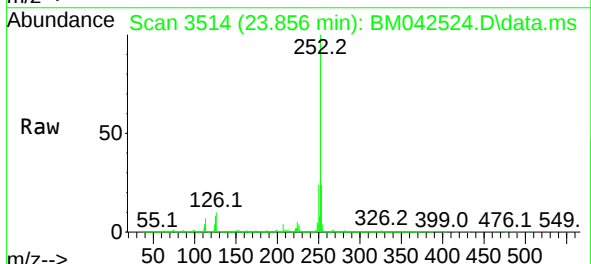
RT: 23.856 min Scan# 3514

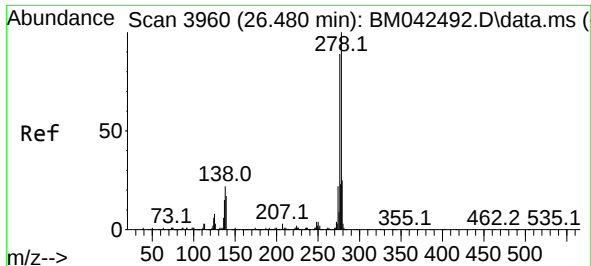
Delta R.T. 0.035 min

Lab File: BM042524.D

Acq: 31 Oct 2023 23:12

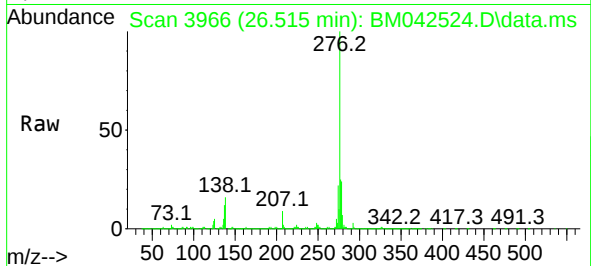
Tgt Ion:252 Resp: 5770650
 Ion Ratio Lower Upper
 252 100
 253 24.1 17.5 26.3
 125 8.2 9.4 14.2





#91
Dibenzo(a,h)anthracene
Concen: 44.282 ng m
RT: 26.515 min Scan# 3966
Delta R.T. 0.035 min
Lab File: BM042524.D
Acq: 31 Oct 2023 23:12

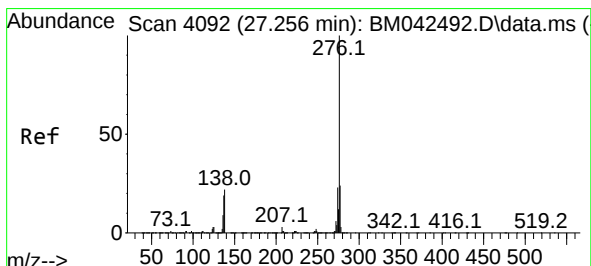
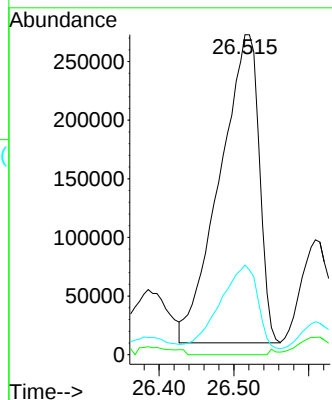
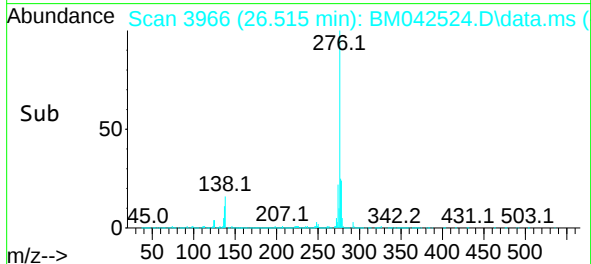
Instrument :
BNA_M
ClientSampleId :
A-8(0-2)



Tgt Ion:278 Resp: 960644
Ion Ratio Lower Upper
278 100
139 0.0 13.4 20.2
279 28.0 19.7 29.5

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



#92
Benzo(g,h,i)perylene
Concen: 186.919 ng
RT: 27.327 min Scan# 4104
Delta R.T. 0.071 min
Lab File: BM042524.D
Acq: 31 Oct 2023 23:12

Tgt Ion:276 Resp: 3902236
Ion Ratio Lower Upper
276 100
277 25.8 19.2 28.8
138 16.7 17.3 25.9#

