

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM111023\
 Data File : BM042702.D
 Acq On : 10 Nov 2023 21:35
 Operator : MA/JU
 Sample : 05256-05DL 2X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 WC-11DL

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/14/2023
 Supervised By :mohammad ahmed 11/16/2023

Quant Time: Nov 10 23:06:32 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM103023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 09 13:21:00 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.845	152	60970	20.000	ng	0.00
21) Naphthalene-d8	10.663	136	243805	20.000	ng	0.00
39) Acenaphthene-d10	14.504	164	154510	20.000	ng	0.00
64) Phenanthrene-d10	17.257	188	288652	20.000	ng	0.00
76) Chrysene-d12	21.445	240	250673	20.000	ng	# 0.00
86) Perylene-d12	23.821	264	272571	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.381	112	191279	50.632	ng	0.00
7) Phenol-d6	7.016	99	258511	49.894	ng	0.00
23) Nitrobenzene-d5	9.045	82	187045	35.764	ng	0.00
42) 2,4,6-Tribromophenol	16.004	330	108822	53.945	ng	0.00
45) 2-Fluorobiphenyl	13.122	172	414052	36.059	ng	0.00
79) Terphenyl-d14	19.874	244	468003	31.657	ng	0.00
Target Compounds						Qvalue
49) Acenaphthylene	14.233	152	39616	2.761	ng	97
52) Acenaphthene	14.569	154	17732	2.036	ng	96
58) Fluorene	15.551	166	22944	2.003	ng	96
71) Phenanthrene	17.304	178	454741	30.146	ng	99
72) Anthracene	17.392	178	96780	6.477	ng	99
73) Carbazole	17.686	167	30280	2.491	ng	98
75) Fluoranthene	19.315	202	772294	43.584	ng	98
78) Pyrene	19.686	202	710035	41.250	ng	99
81) Benzo(a)anthracene	21.427	228	348105	21.826	ng	98
83) Chrysene	21.480	228	326661	20.163	ng	97
87) Indeno(1,2,3-cd)pyrene	26.297	276	197570	12.179	ng	# 88
88) Benzo(b)fluoranthene	23.092	252	407861	26.859	ng	97
89) Benzo(k)fluoranthene	23.133	252	138895m	8.208	ng	
90) Benzo(a)pyrene	23.715	252	293352m	19.622	ng	
91) Dibenzo(a,h)anthracene	26.309	278	48141	7.075	ng	# 78
92) Benzo(g,h,i)perylene	27.085	276	192935	13.494	ng	# 93

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

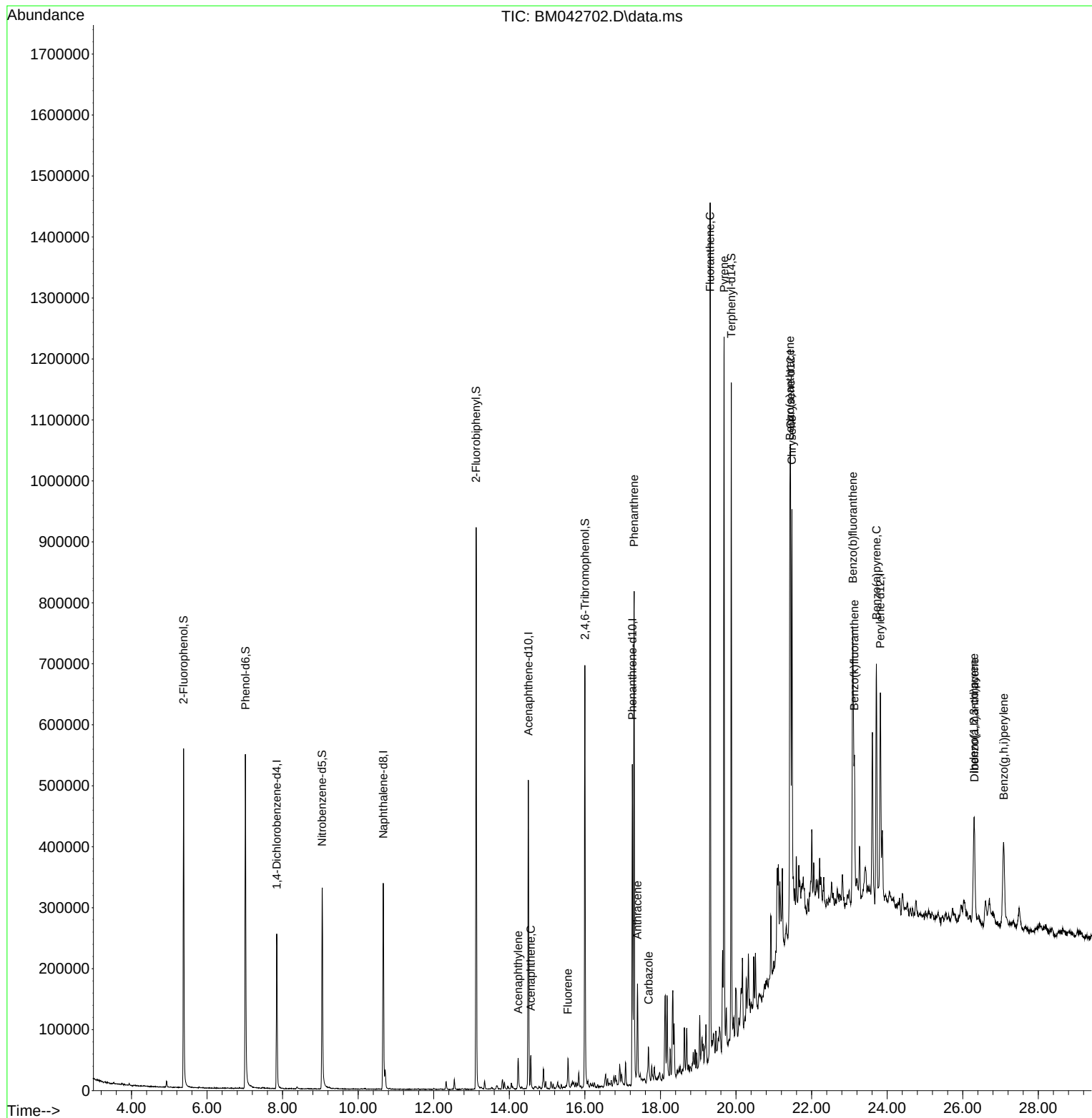
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM111023\
Data File : BM042702.D
Acq On : 10 Nov 2023 21:35
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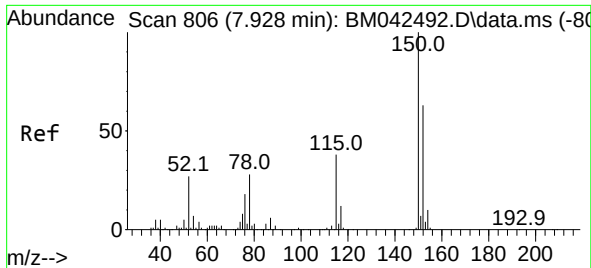
Instrument :
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Quant Time: Nov 10 23:06:32 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM103023.M
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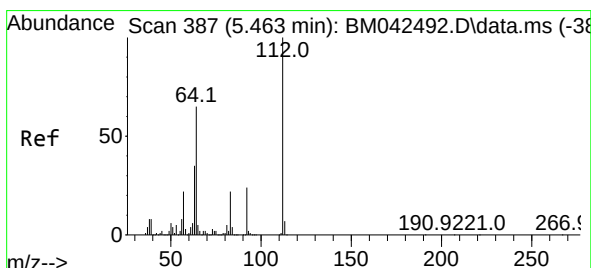
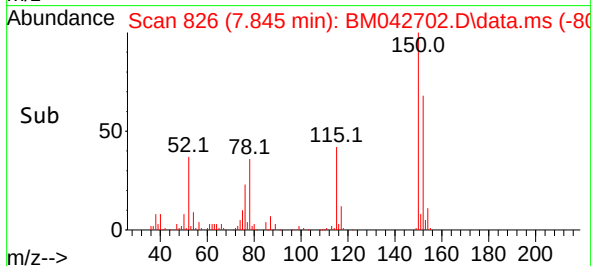
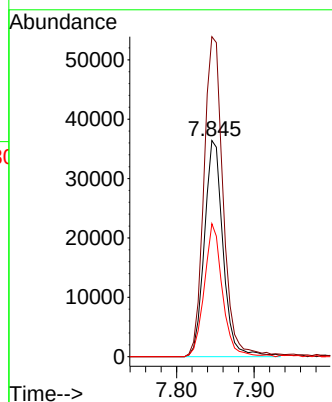
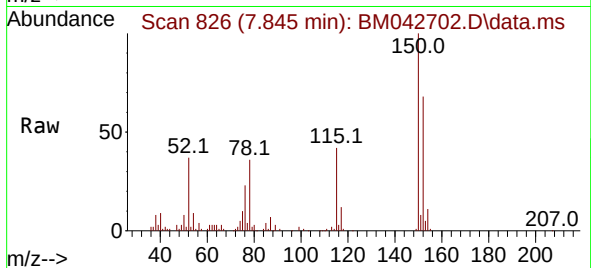
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1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.845 min Scan# 806
Delta R.T. 0.000 min
Lab File: BM042702.D
Acq: 10 Nov 2023 21:35

Instrument :
BNA_M
ClientSampleId :
WC-11DL

Tgt Ion:152 Resp: 60970
Ion Ratio Lower Upper
152 100
150 148.1 127.4 191.0
115 61.5 47.9 71.9

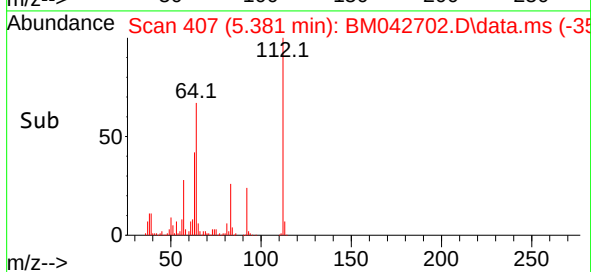
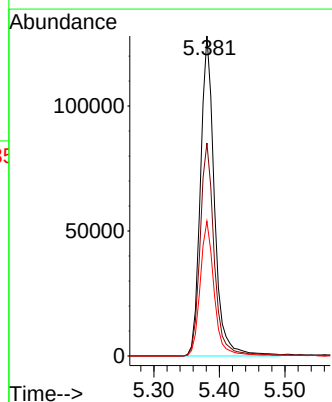
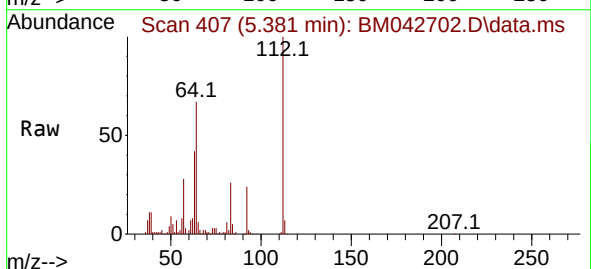
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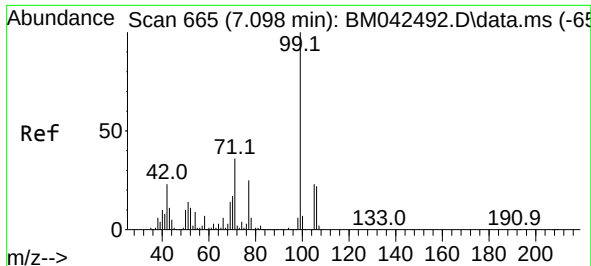
Reviewed By :Yogesh Patel 11/14/2023
Supervised By :mohammad ahmed 11/16/2023



#5
2-Fluorophenol
Concen: 50.632 ng
RT: 5.381 min Scan# 407
Delta R.T. 0.006 min
Lab File: BM042702.D
Acq: 10 Nov 2023 21:35

Tgt Ion:112 Resp: 191279
Ion Ratio Lower Upper
112 100
64 66.6 52.1 78.1
63 42.1 28.3 42.5





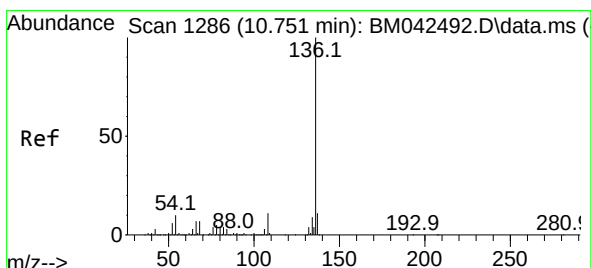
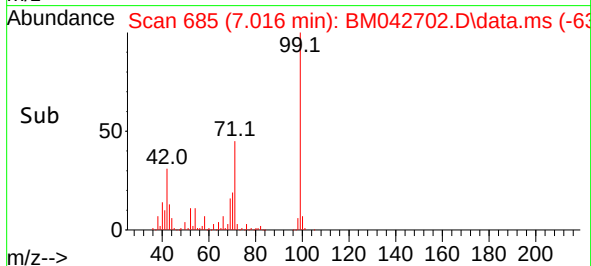
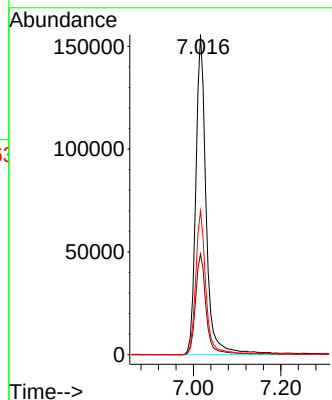
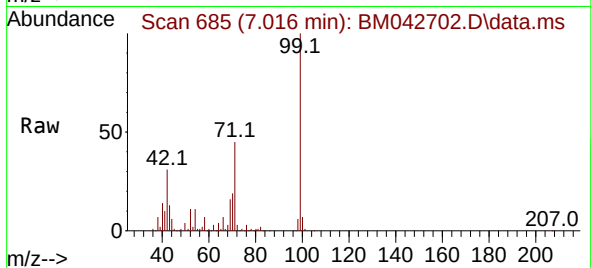
#7
Phenol-d6
Concen: 49.894 ng
RT: 7.016 min Scan# 60
Delta R.T. 0.006 min
Lab File: BM042702.D
Acq: 10 Nov 2023 21:35

Instrument :
BNA_M
ClientSampleId :
WC-11DL

Tgt Ion: 99 Resp: 25851
Ion Ratio Lower Upper
99 100
42 31.4 18.7 28.1
71 44.9 29.1 43.7

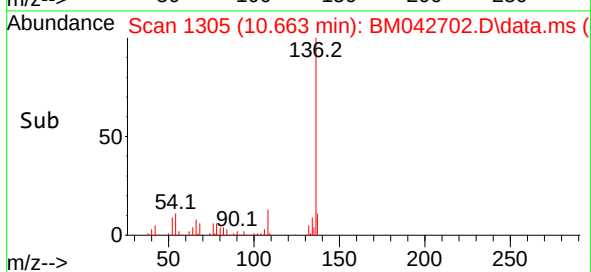
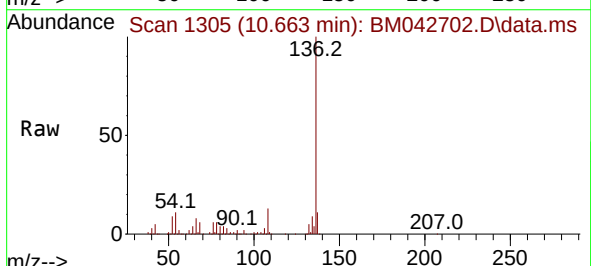
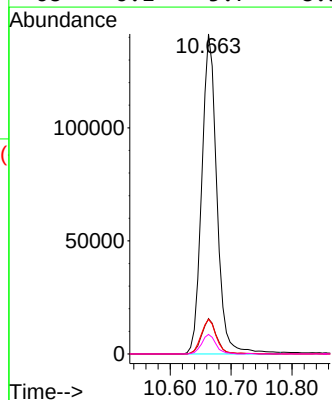
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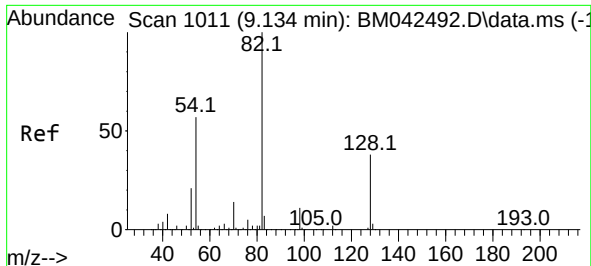
Reviewed By :Yogesh Patel 11/14/2023
Supervised By :mohammad ahmed 11/16/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.663 min Scan# 1305
Delta R.T. 0.000 min
Lab File: BM042702.D
Acq: 10 Nov 2023 21:35

Tgt Ion:136 Resp: 243805
Ion Ratio Lower Upper
136 100
137 11.1 9.0 13.6
54 10.8 8.0 12.0
68 6.1 5.7 8.5





#23
Nitrobenzene-d5
Concen: 35.764 ng
RT: 9.045 min Scan# 110
Delta R.T. -0.006 min
Lab File: BM042702.D
Acq: 10 Nov 2023 21:35

Instrument :

BNA_M

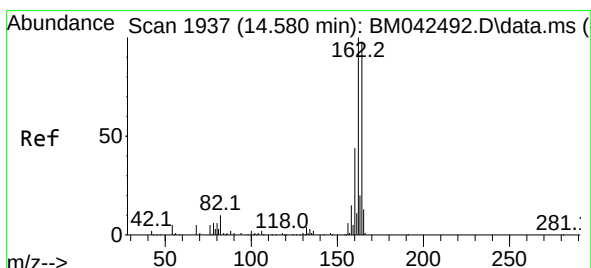
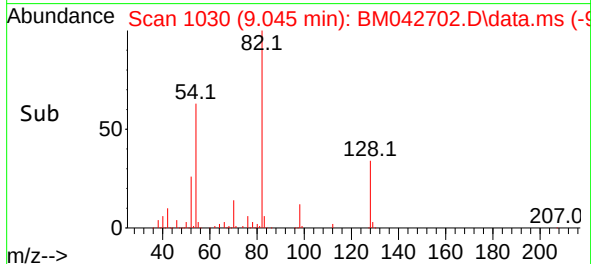
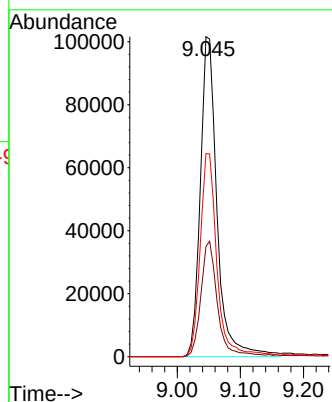
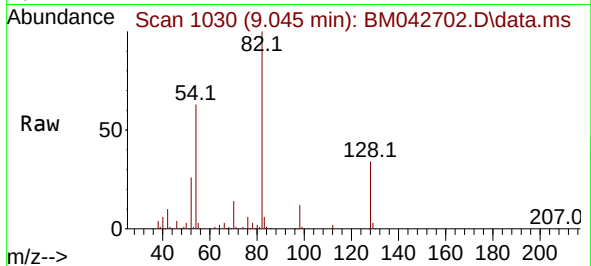
ClientSampleId :

WC-11DL

Tgt Ion: 82 Resp: 187045
Ion Ratio Lower Upper
82 100
128 34.4 30.7 46.1
54 63.5 45.3 67.9

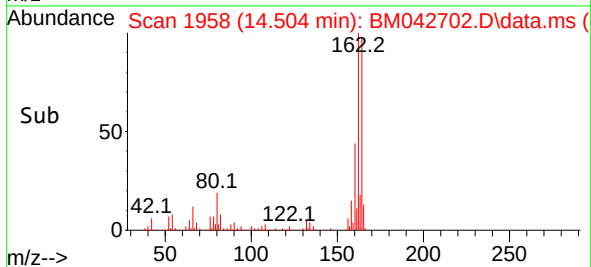
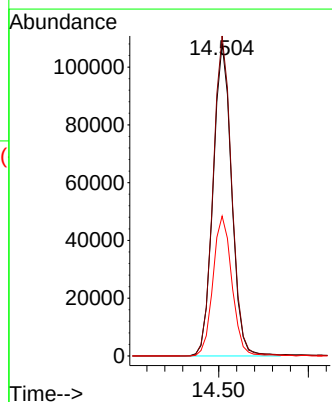
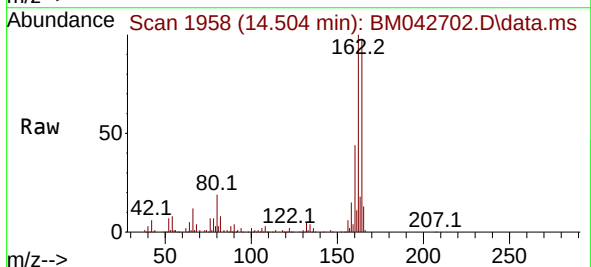
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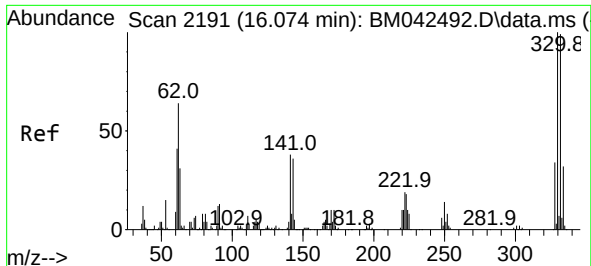
Reviewed By :Yogesh Patel 11/14/2023
Supervised By :mohammad ahmed 11/16/2023



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.504 min Scan# 1958
Delta R.T. 0.000 min
Lab File: BM042702.D
Acq: 10 Nov 2023 21:35

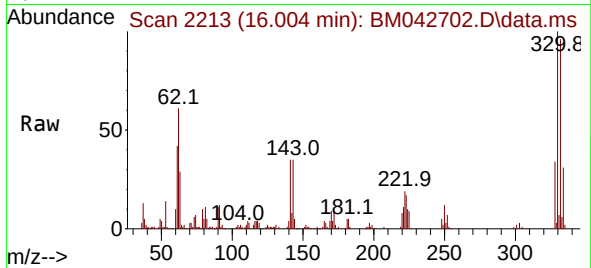
Tgt Ion:164 Resp: 154510
Ion Ratio Lower Upper
164 100
162 102.4 81.6 122.4
160 44.8 36.2 54.4





#42
2,4,6-Tribromophenol
Concen: 53.945 ng
RT: 16.004 min Scan# 2191
Delta R.T. 0.006 min
Lab File: BM042702.D
Acq: 10 Nov 2023 21:35

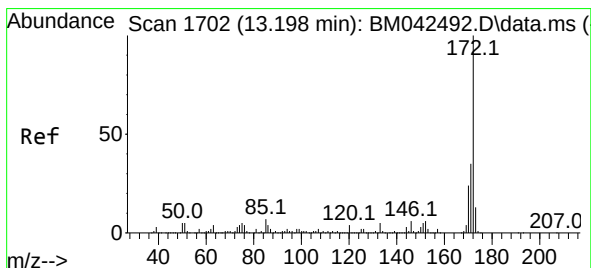
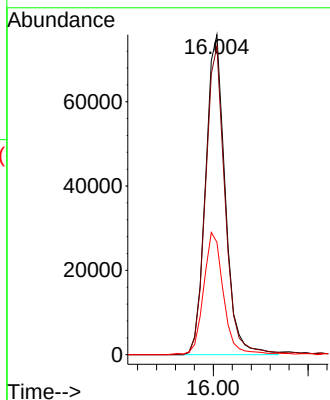
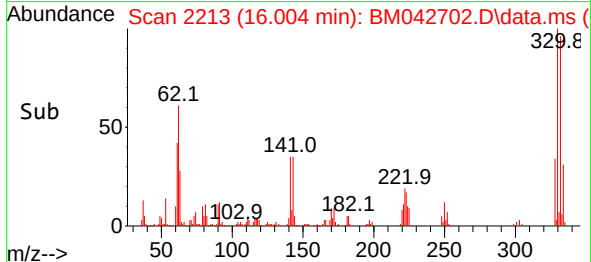
Instrument :
BNA_M
ClientSampleId :
WC-11DL



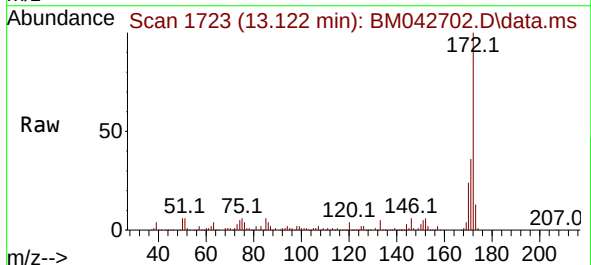
Tgt Ion:330 Resp: 10882
Ion Ratio Lower Upper
330 100
332 96.4 78.8 118.2
141 38.9 31.1 46.7

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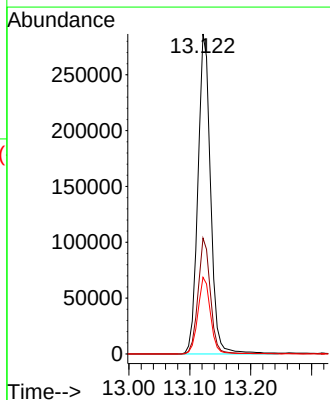
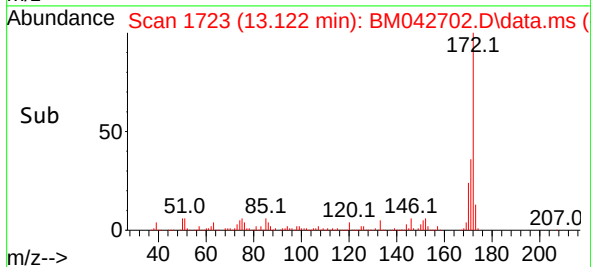
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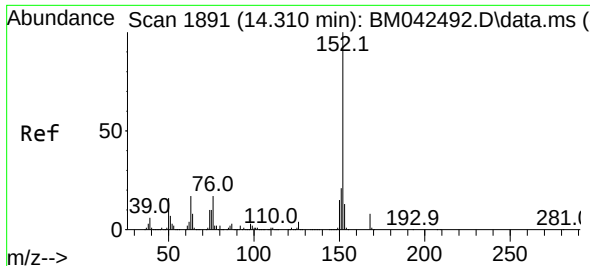


#45
2-Fluorobiphenyl
Concen: 36.059 ng
RT: 13.122 min Scan# 1723
Delta R.T. 0.000 min
Lab File: BM042702.D
Acq: 10 Nov 2023 21:35



Tgt Ion:172 Resp: 414052
Ion Ratio Lower Upper
172 100
171 36.2 28.2 42.2
170 23.9 19.0 28.4





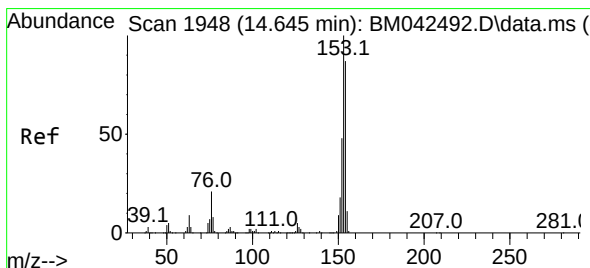
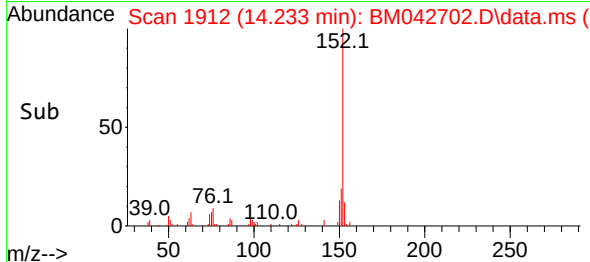
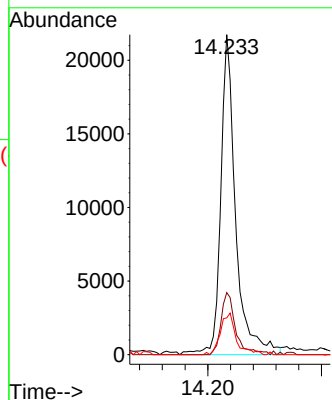
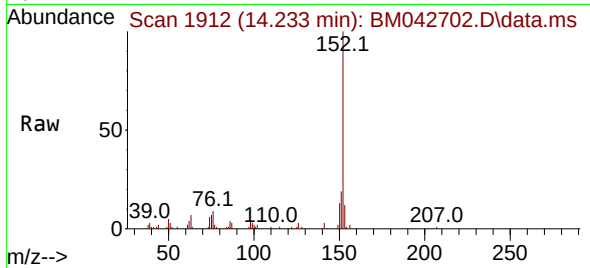
#49
Acenaphthylene
Concen: 2.761 ng
RT: 14.233 min Scan# 1912
Delta R.T. 0.000 min
Lab File: BM042702.D
Acq: 10 Nov 2023 21:35

Instrument :
BNA_M
ClientSampleId :
WC-11DL

Tgt Ion:152 Resp: 39610
Ion Ratio Lower Upper
152 100
151 19.4 16.4 24.6
153 11.5 10.4 15.6

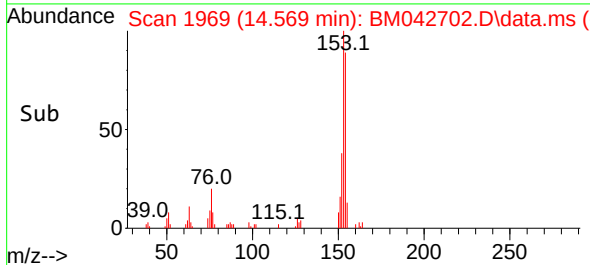
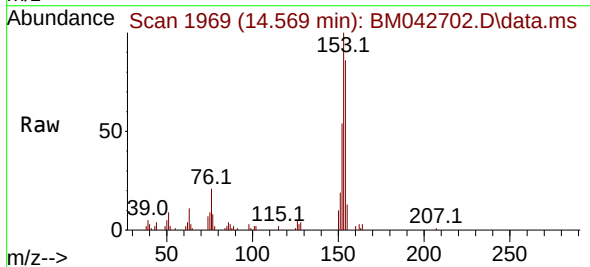
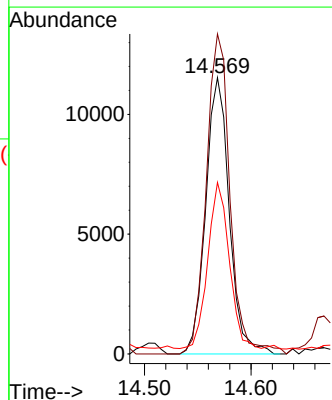
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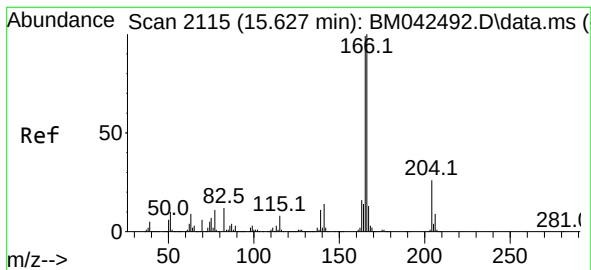
Reviewed By :Yogesh Patel 11/14/2023
Supervised By :mohammad ahmed 11/16/2023



#52
Acenaphthene
Concen: 2.036 ng
RT: 14.569 min Scan# 1969
Delta R.T. 0.000 min
Lab File: BM042702.D
Acq: 10 Nov 2023 21:35

Tgt Ion:154 Resp: 17732
Ion Ratio Lower Upper
154 100
153 115.8 92.0 138.0
152 62.1 44.0 66.0





#58

Fluorene

Concen: 2.003 ng

RT: 15.551 min Scan# 2115

Delta R.T. 0.000 min

Lab File: BM042702.D

Acq: 10 Nov 2023 21:35

Instrument :

BNA_M

ClientSampleId :

WC-11DL

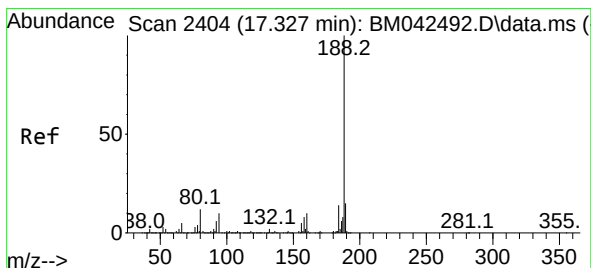
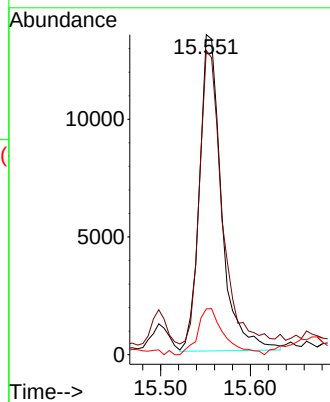
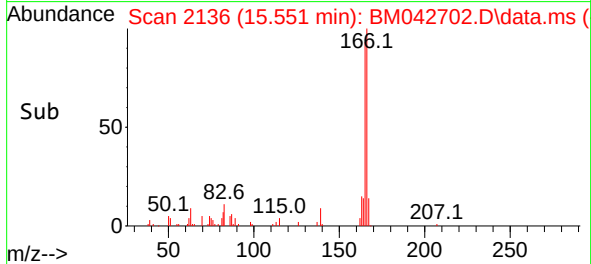
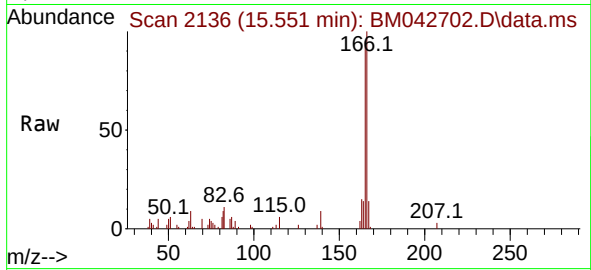
Tgt Ion:166	Resp: 2294
Ion Ratio	Lower Upper
166 100	
165 95.1	79.3 118.9
167 14.3	10.5 15.7

Manual Integrations

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Reviewed By :Yogesh Patel 11/14/2023

Supervised By :mohammad ahmed 11/16/2023



#64

Phenanthrene-d10

Concen: 20.000 ng

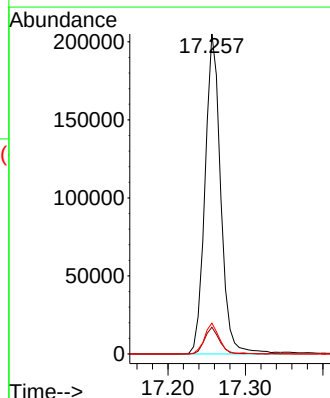
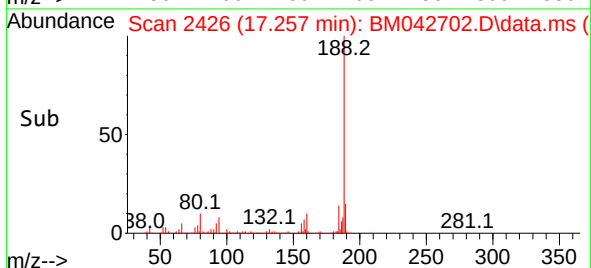
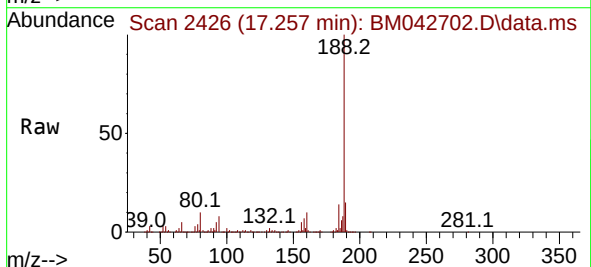
RT: 17.257 min Scan# 2426

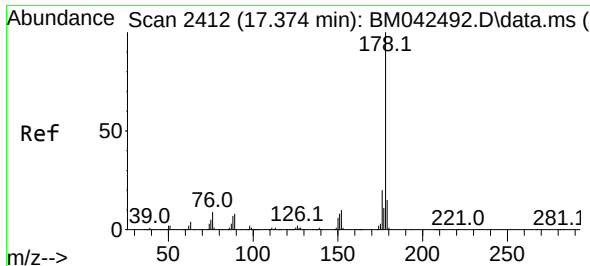
Delta R.T. 0.000 min

Lab File: BM042702.D

Acq: 10 Nov 2023 21:35

Tgt Ion:188	Resp: 288652
Ion Ratio	Lower Upper
188 100	
94 8.3	8.2 12.4
80 9.6	9.4 14.2





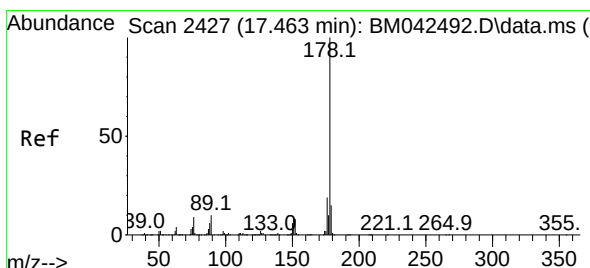
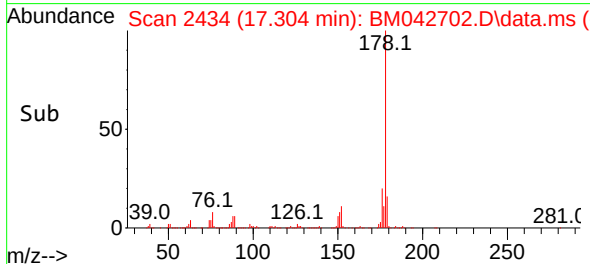
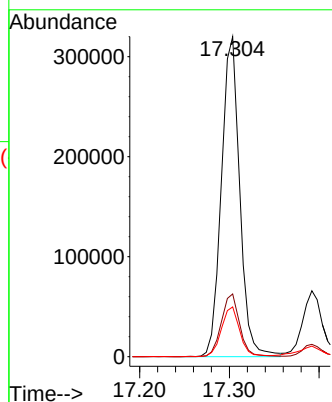
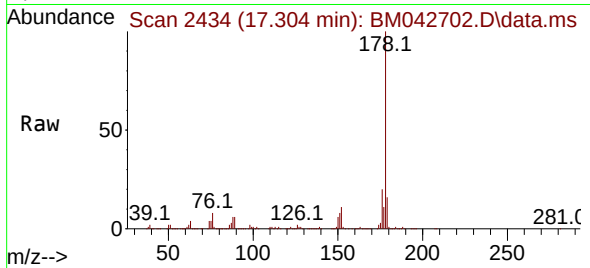
#71
Phenanthrene
Concen: 30.146 ng
RT: 17.304 min Scan# 2412
Delta R.T. 0.006 min
Lab File: BM042702.D
Acq: 10 Nov 2023 21:35

Instrument :
BNA_M
ClientSampleId :
WC-11DL

Tgt Ion:178 Resp: 45474
Ion Ratio Lower Upper
178 100
176 19.6 15.8 23.8
179 15.6 12.2 18.4

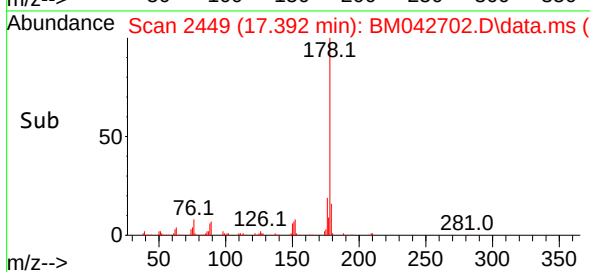
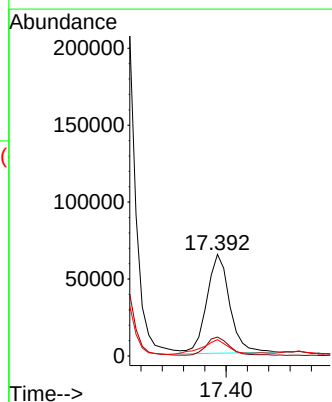
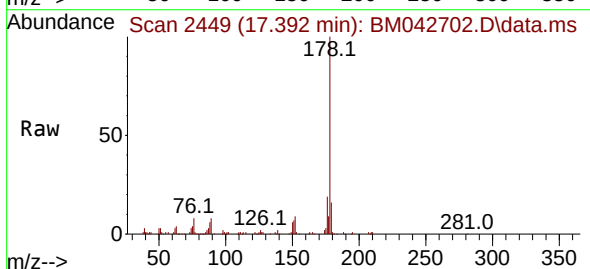
Manual Integrations
APPROVED

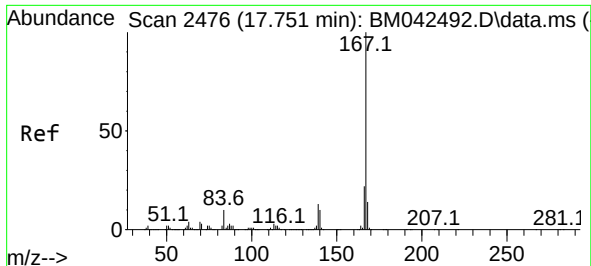
Reviewed By :Yogesh Patel 11/14/2023
Supervised By :mohammad ahmed 11/16/2023



#72
Anthracene
Concen: 6.477 ng
RT: 17.392 min Scan# 2449
Delta R.T. 0.000 min
Lab File: BM042702.D
Acq: 10 Nov 2023 21:35

Tgt Ion:178 Resp: 96780
Ion Ratio Lower Upper
178 100
176 18.6 15.2 22.8
179 16.1 12.3 18.5





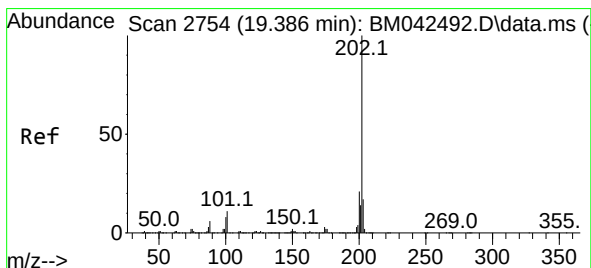
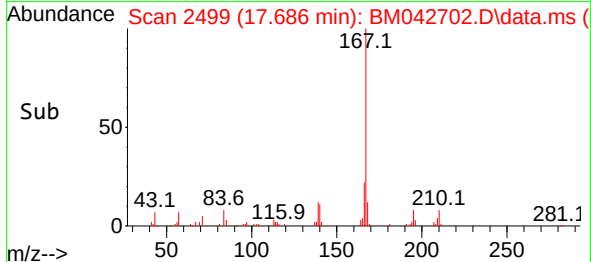
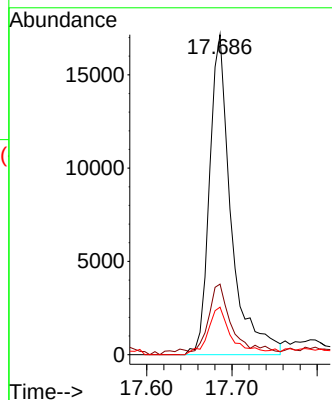
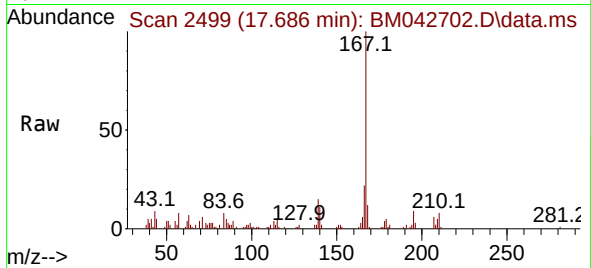
#73
 Carbazole
 Concen: 2.491 ng
 RT: 17.686 min Scan# 2476
 Delta R.T. 0.006 min
 Lab File: BM042702.D
 Acq: 10 Nov 2023 21:35

Instrument :
 BNA_M
 ClientSampleId :
 WC-11DL

Tgt Ion:167 Resp: 30280
 Ion Ratio Lower Upper
 167 100
 166 22.1 17.4 26.2
 139 14.8 10.5 15.7

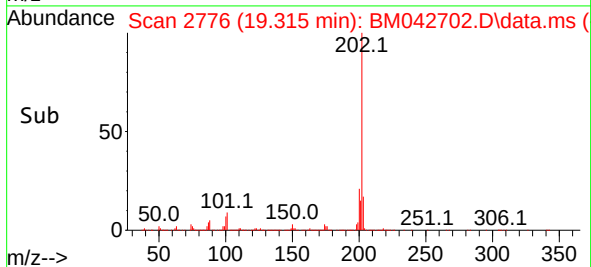
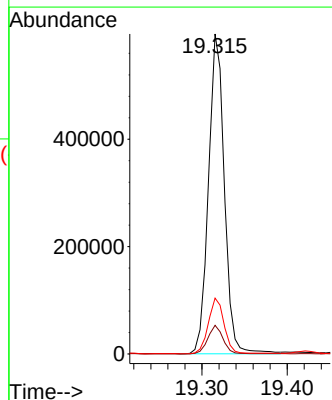
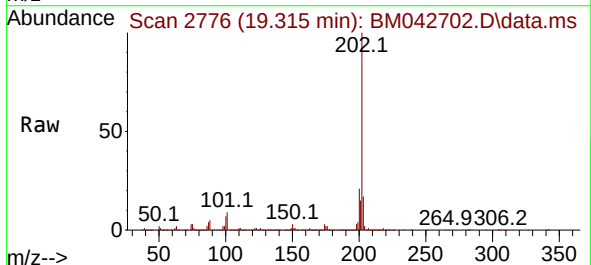
Manual Integrations
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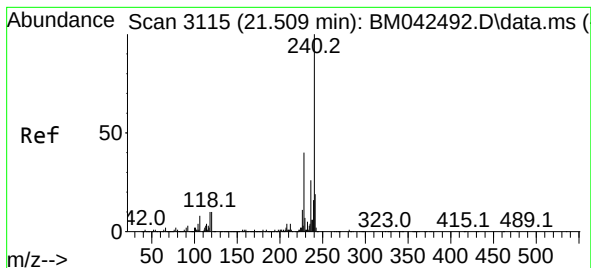
Reviewed By :Yogesh Patel 11/14/2023
 Supervised By :mohammad ahmed 11/16/2023



#75
 Fluoranthene
 Concen: 43.584 ng
 RT: 19.315 min Scan# 2776
 Delta R.T. 0.000 min
 Lab File: BM042702.D
 Acq: 10 Nov 2023 21:35

Tgt Ion:202 Resp: 772294
 Ion Ratio Lower Upper
 202 100
 101 8.9 0.0 30.5
 203 17.4 0.0 37.0





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.445 min Scan# 3115

Delta R.T. 0.006 min

Lab File: BM042702.D

Acq: 10 Nov 2023 21:35

Instrument :

BNA_M

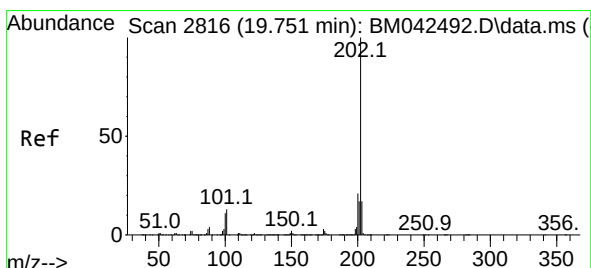
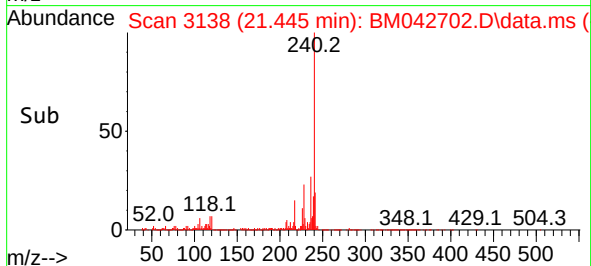
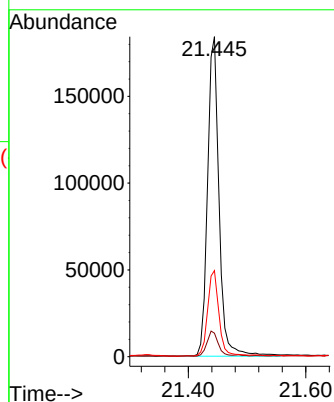
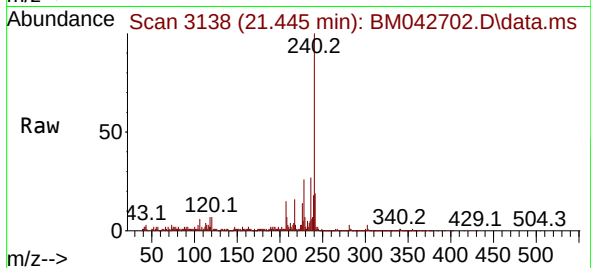
ClientSampleId :

WC-11DL

Tgt Ion:240 Resp: 250673
 Ion Ratio Lower Upper
 240 100
 120 7.4 8.3 12.5
 236 26.9 20.8 31.2

Manual Integrations
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Reviewed By :Yogesh Patel 11/14/2023
 Supervised By :mohammad ahmed 11/16/2023



#78

Pyrene

Concen: 41.250 ng

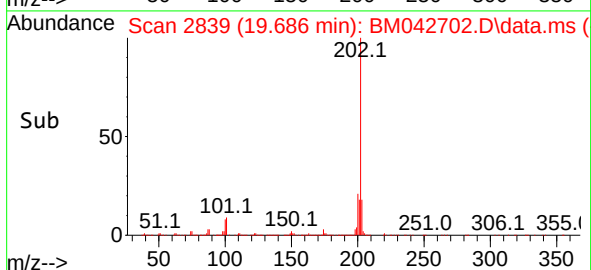
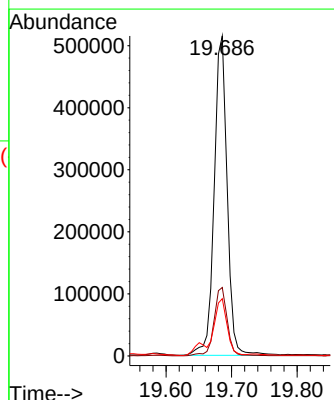
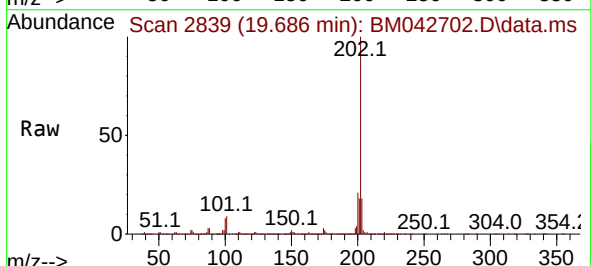
RT: 19.686 min Scan# 2839

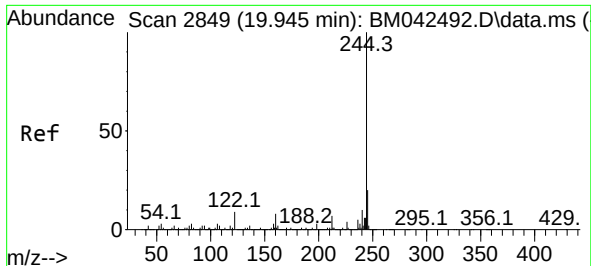
Delta R.T. 0.006 min

Lab File: BM042702.D

Acq: 10 Nov 2023 21:35

Tgt Ion:202 Resp: 710035
 Ion Ratio Lower Upper
 202 100
 200 21.4 16.9 25.3
 203 17.9 13.7 20.5





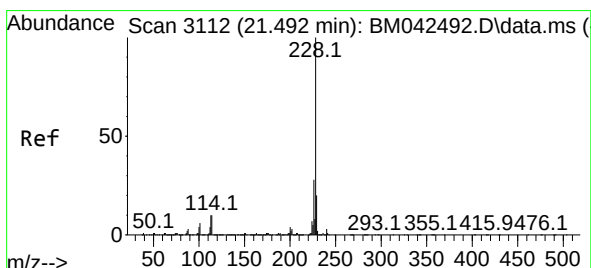
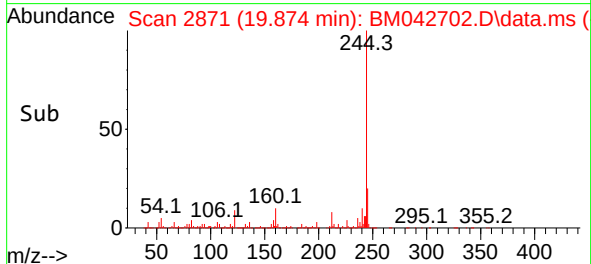
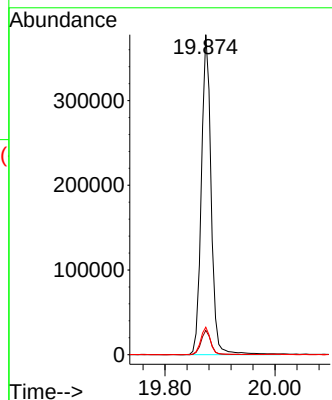
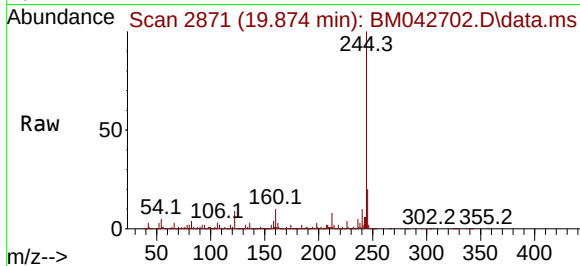
#79
Terphenyl-d14
Concen: 31.657 ng
RT: 19.874 min Scan# 21
Delta R.T. 0.000 min
Lab File: BM042702.D
Acq: 10 Nov 2023 21:35

Instrument :
BNA_M
ClientSampleId :
WC-11DL

Tgt Ion:244 Resp: 46800
Ion Ratio Lower Upper
244 100
212 7.6 5.4 8.2
122 8.6 7.2 10.8

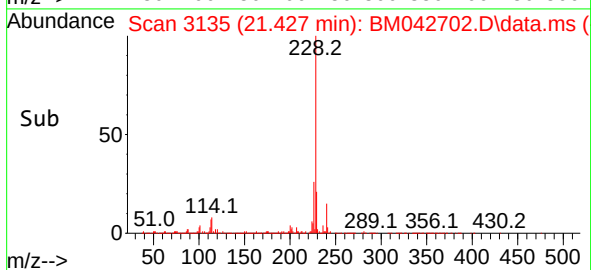
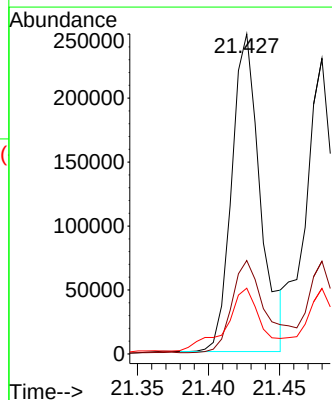
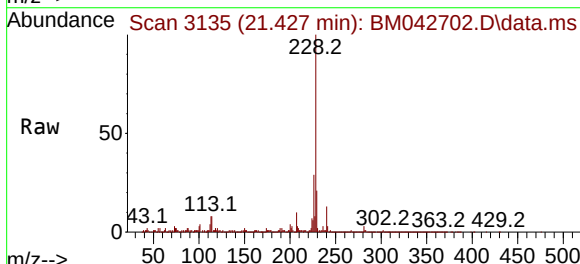
Manual Integrations
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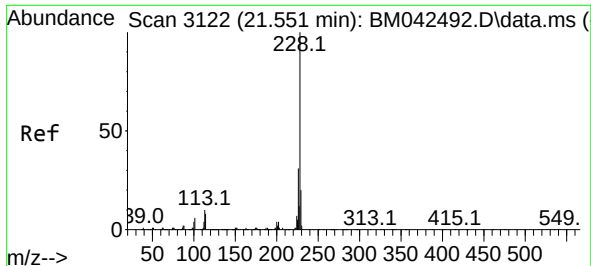
Reviewed By :Yogesh Patel 11/14/2023
Supervised By :mohammad ahmed 11/16/2023



#81
Benzo(a)anthracene
Concen: 21.826 ng
RT: 21.427 min Scan# 3135
Delta R.T. 0.000 min
Lab File: BM042702.D
Acq: 10 Nov 2023 21:35

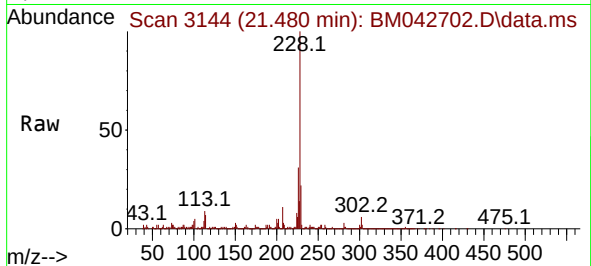
Tgt Ion:228 Resp: 348105
Ion Ratio Lower Upper
228 100
226 29.2 22.3 33.5
229 20.5 15.8 23.8





#83
Chrysene
Concen: 20.163 ng
RT: 21.480 min Scan# 3122
Delta R.T. 0.000 min
Lab File: BM042702.D
Acq: 10 Nov 2023 21:35

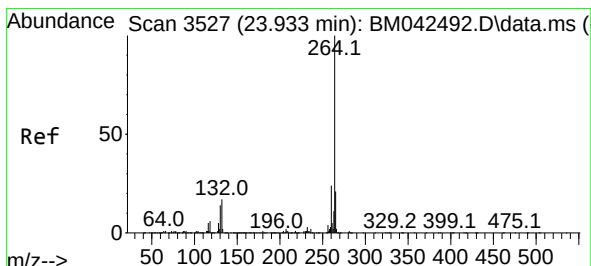
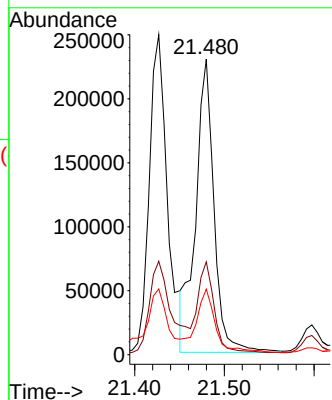
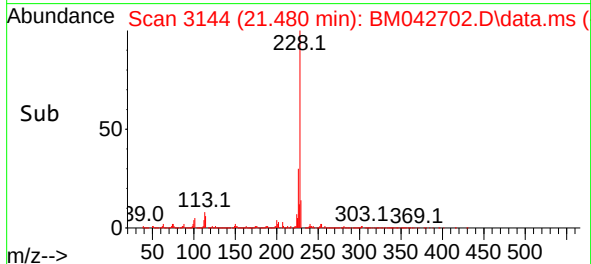
Instrument :
BNA_M
ClientSampleId :
WC-11DL



Tgt Ion:228 Resp: 32666
Ion Ratio Lower Upper
228 100
226 31.4 24.4 36.6
229 22.2 15.7 23.5

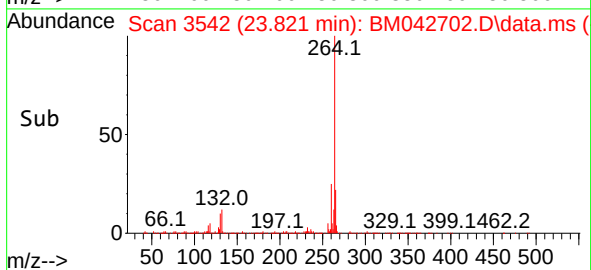
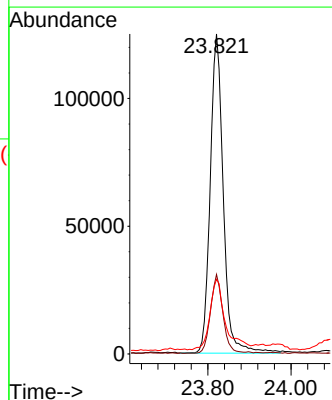
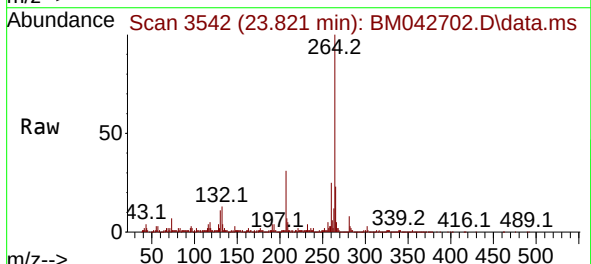
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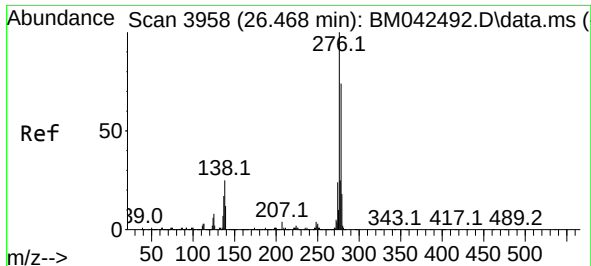
Reviewed By :Yogesh Patel 11/14/2023
Supervised By :mohammad ahmed 11/16/2023



#86
Perylene-d12
Concen: 20.000 ng
RT: 23.821 min Scan# 3542
Delta R.T. 0.006 min
Lab File: BM042702.D
Acq: 10 Nov 2023 21:35

Tgt Ion:264 Resp: 272571
Ion Ratio Lower Upper
264 100
260 24.9 19.0 28.4
265 23.4 18.7 28.1





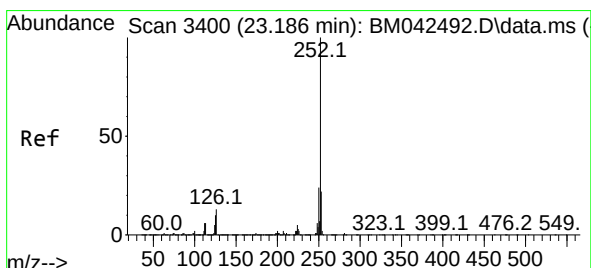
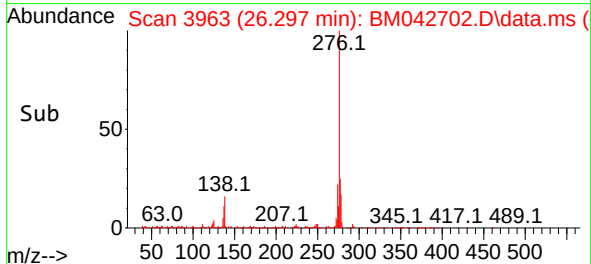
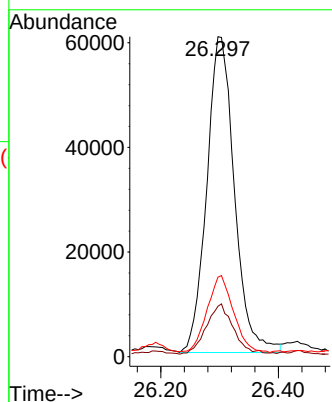
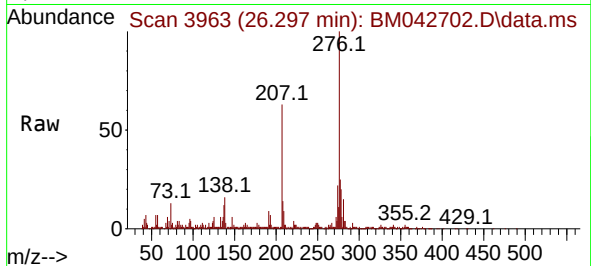
#87
Indeno(1,2,3-cd)pyrene
Concen: 12.179 ng
RT: 26.297 min Scan# 3958
Delta R.T. -0.006 min
Lab File: BM042702.D
Acq: 10 Nov 2023 21:35

Instrument :
BNA_M
ClientSampleId :
WC-11DL

Tgt Ion:276 Resp: 197570
Ion Ratio Lower Upper
276 100
138 15.4 20.6 31.0
277 23.2 19.5 29.3

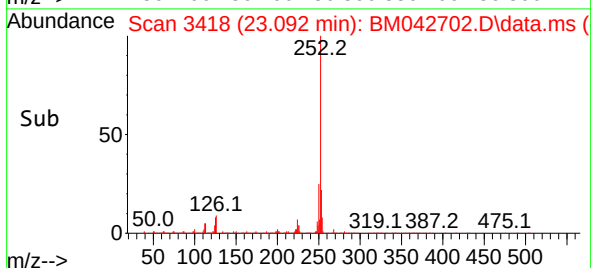
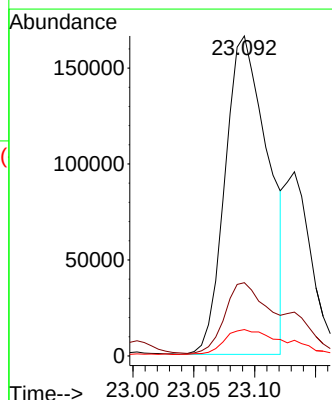
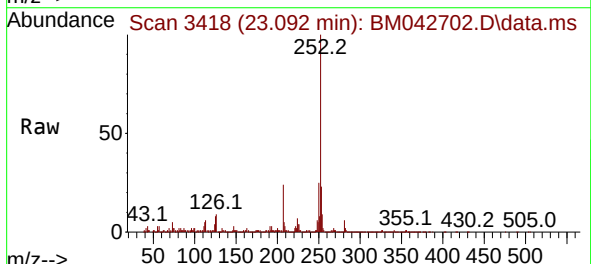
Manual Integrations
APPROVED

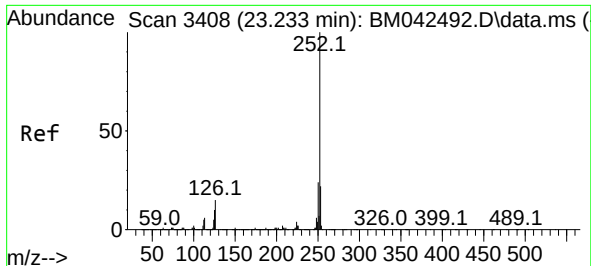
Reviewed By :Yogesh Patel 11/14/2023
Supervised By :mohammad ahmed 11/16/2023



#88
Benzo(b)fluoranthene
Concen: 26.859 ng
RT: 23.092 min Scan# 3418
Delta R.T. 0.006 min
Lab File: BM042702.D
Acq: 10 Nov 2023 21:35

Tgt Ion:252 Resp: 407861
Ion Ratio Lower Upper
252 100
253 22.9 17.5 26.3
125 8.2 7.8 11.6





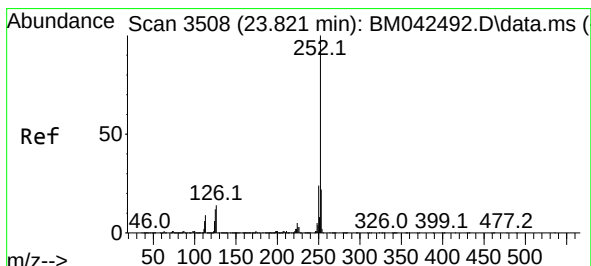
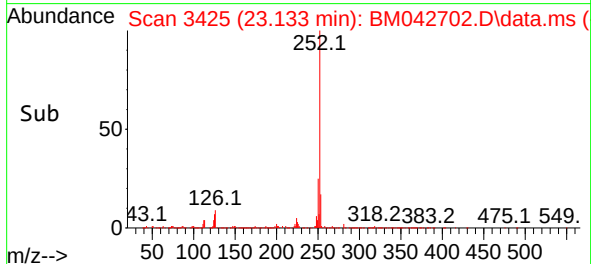
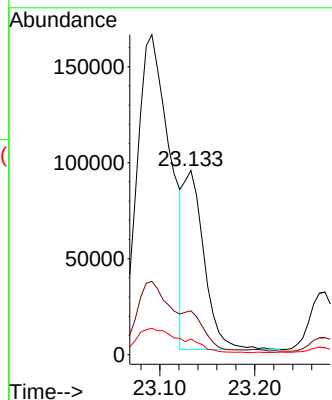
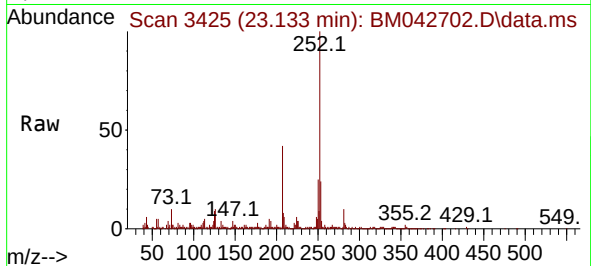
#89
Benzo(k)fluoranthene
Concen: 8.208 ng m
RT: 23.133 min Scan# 3408
Delta R.T. -0.006 min
Lab File: BM042702.D
Acq: 10 Nov 2023 21:35

Instrument :
BNA_M
ClientSampleId :
WC-11DL

Tgt Ion:252 Resp: 13889
Ion Ratio Lower Upper
252 100
253 23.8 17.6 26.4
125 8.5 8.2 12.4

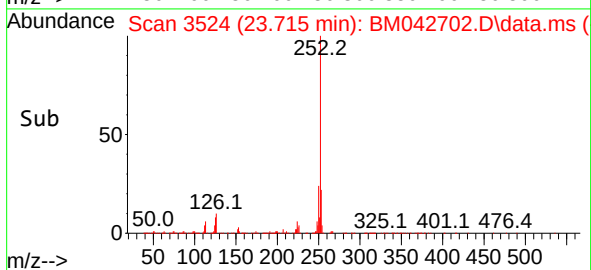
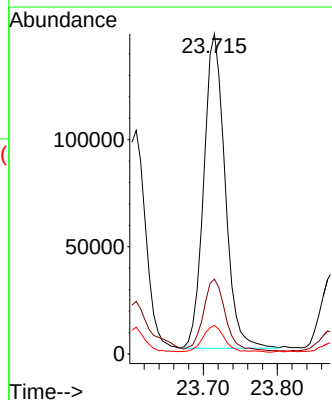
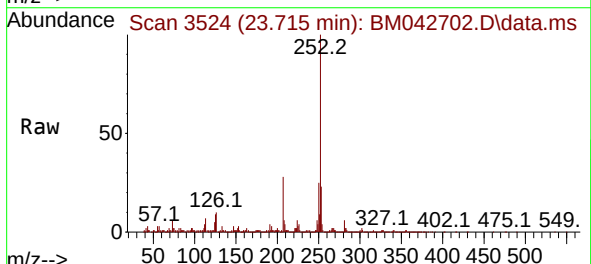
Manual Integrations
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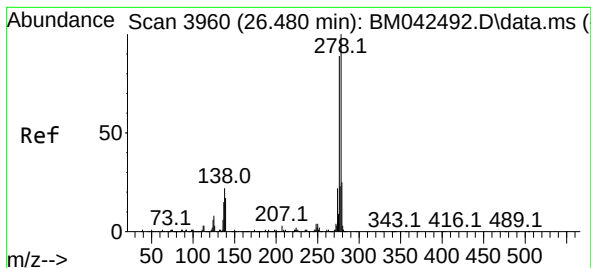
Reviewed By :Yogesh Patel 11/14/2023
Supervised By :mohammad ahmed 11/16/2023



#90
Benzo(a)pyrene
Concen: 19.622 ng m
RT: 23.715 min Scan# 3524
Delta R.T. 0.000 min
Lab File: BM042702.D
Acq: 10 Nov 2023 21:35

Tgt Ion:252 Resp: 293352
Ion Ratio Lower Upper
252 100
253 23.4 17.5 26.3
125 8.9 9.4 14.2#





#91

Dibenzo(a,h)anthracene

Concen: 7.075 ng

RT: 26.309 min Scan# 3960

Delta R.T. -0.006 min

Lab File: BM042702.D

Acq: 10 Nov 2023 21:35

Instrument :

BNA_M

ClientSampleId :

WC-11DL

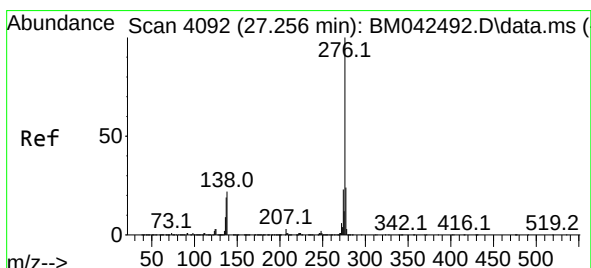
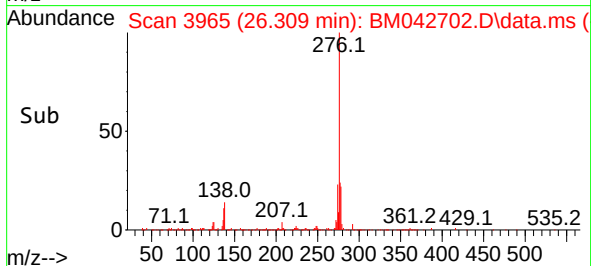
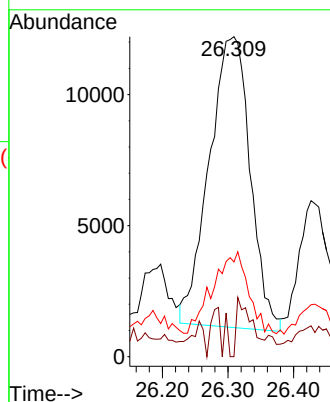
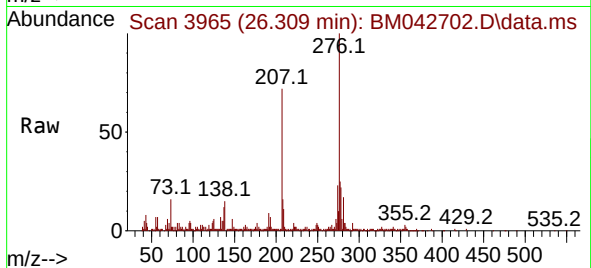
Tgt Ion:	278	Resp:	4814
Ion Ratio	Lower	Upper	
278	100		
139	0.0	13.4	20.2
279	29.6	19.7	29.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/14/2023

Supervised By :mohammad ahmed 11/16/2023



#92

Benzo(g,h,i)perylene

Concen: 13.494 ng

RT: 27.085 min Scan# 4097

Delta R.T. 0.006 min

Lab File: BM042702.D

Acq: 10 Nov 2023 21:35

Tgt Ion:	276	Resp:	192935
Ion Ratio	Lower	Upper	
276	100		
277	25.4	19.2	28.8
138	16.6	17.3	25.9

