

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041123\
 Data File : BM039398.D
 Acq On : 11 Apr 2023 17:59
 Operator : CG/JU
 Sample : 02268-01
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 50002-TOTE

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 04/12/2023
 Supervised By : Jagrut Upadhyay 04/12/2023

Quant Time: Apr 12 01:39:31 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM032923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Apr 11 16:05:42 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.863	152	222401	20.000	ng	0.00
21) Naphthalene-d8	10.675	136	900557	20.000	ng	# 0.00
39) Acenaphthene-d10	14.522	164	575227	20.000	ng	0.00
64) Phenanthrene-d10	17.275	188	1144750	20.000	ng	0.00
76) Chrysene-d12	21.468	240	943997	20.000	ng	# 0.00
86) Perylene-d12	23.862	264	1156621	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.422	112	113407	7.682	ng	0.00
7) Phenol-d6	7.040	99	117719	6.165	ng	0.00
23) Nitrobenzene-d5	9.034	82	138836	7.493	ng	0.00
42) 2,4,6-Tribromophenol	16.016	330	70090	9.599	ng	0.00
45) 2-Fluorobiphenyl	13.139	172	208964	4.922	ng	0.00
79) Terphenyl-d14	19.904	244	265222	5.191	ng	0.00
Target Compounds						Qvalue
10) Phenol	7.063	94	173941	9.091	ng	99
31) Naphthalene	10.722	128	374071	7.709	ng	96
37) 2-Methylnaphthalene	12.340	142	367517	10.879	ng	97
38) 1-Methylnaphthalene	12.557	142	290698m	9.190	ng	
49) Acenaphthylene	14.239	152	415551	7.351	ng	# 93
52) Acenaphthene	14.581	154	274203	8.215	ng	98
55) Dibenzofuran	14.916	168	343724	6.396	ng	# 91
58) Fluorene	15.569	166	612939	14.404	ng	97
71) Phenanthrene	17.316	178	3747586	59.774	ng	100
72) Anthracene	17.404	178	1152753	18.032	ng	98
73) Carbazole	17.680	167	316735	5.302	ng	# 87
75) Fluoranthene	19.339	202	4419887	61.844	ng	96
78) Pyrene	19.704	202	4267184	63.497	ng	# 93
81) Benzo(a)anthracene	21.457	228	1858293	27.912	ng	# 93
83) Chrysene	21.504	228	1796688	27.955	ng	# 96
87) Indeno(1,2,3-cd)pyrene	26.339	276	1083346	12.712	ng	96
88) Benzo(b)fluoranthene	23.139	252	2216858	31.324	ng	# 94
89) Benzo(k)fluoranthene	23.180	252	801640m	11.120	ng	
90) Benzo(a)pyrene	23.756	252	1802200	25.922	ng	# 96
91) Dibenzo(a,h)anthracene	26.344	278	306442	4.282	ng	# 79
92) Benzo(g,h,i)perylene	27.109	276	1100547	15.639	ng	97

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

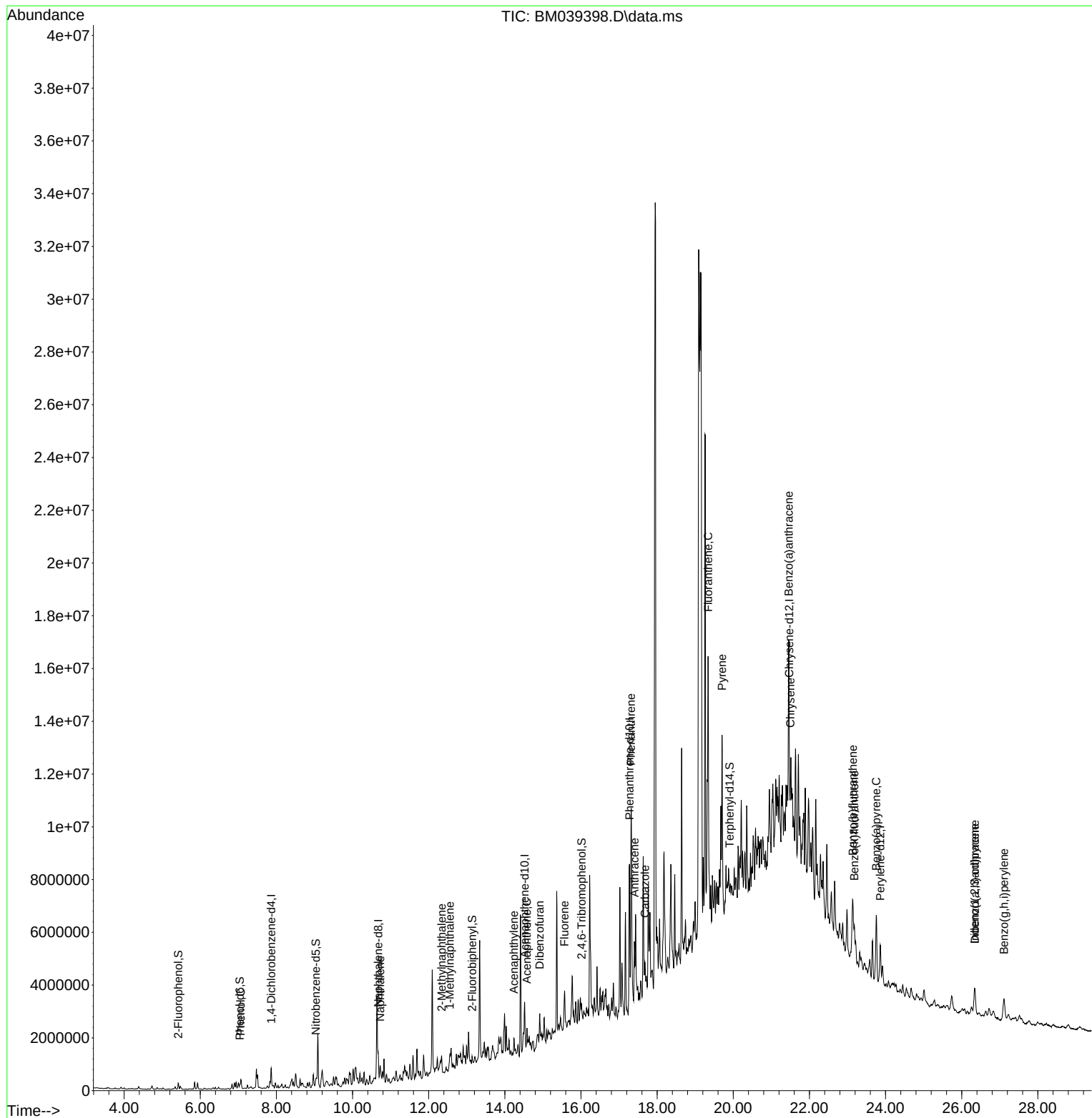
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041123\
Data File : BM039398.D
Acq On : 11 Apr 2023 17:59
Operator : CG/JU
Sample : 02268-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

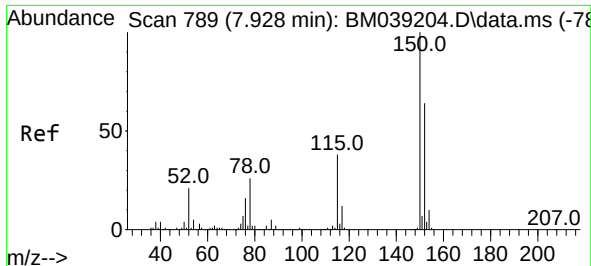
Instrument :
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ClientSampleId :
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Quant Time: Apr 12 01:39:31 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM032923.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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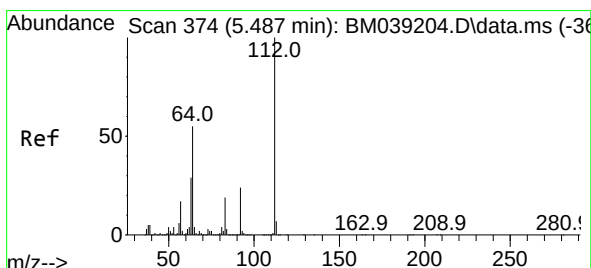
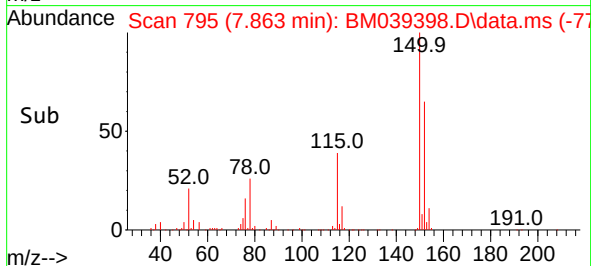
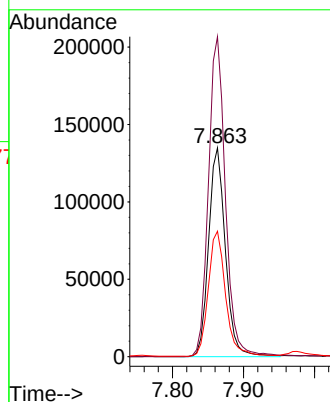
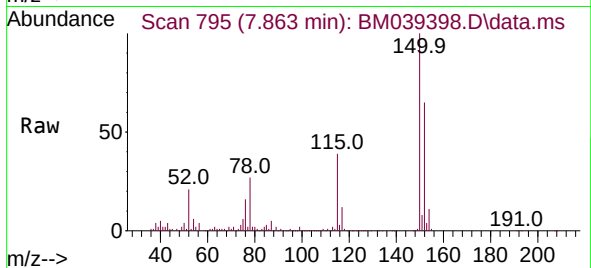
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.863 min Scan# 795
Delta R.T. 0.000 min
Lab File: BM039398.D
Acq: 11 Apr 2023 17:59

Instrument :
BNA_M
ClientSampleId :
50002-TOTE

Tgt Ion:152 Resp: 222407
Ion Ratio Lower Upper
152 100
150 153.3 125.5 188.3
115 60.1 48.1 72.1

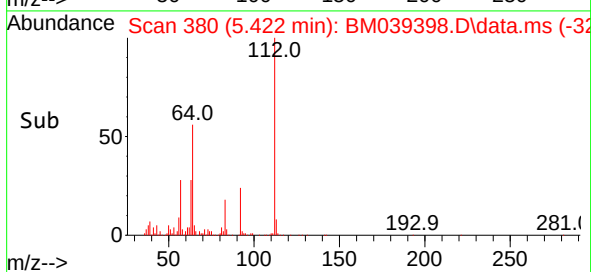
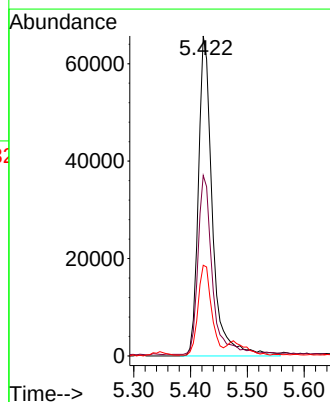
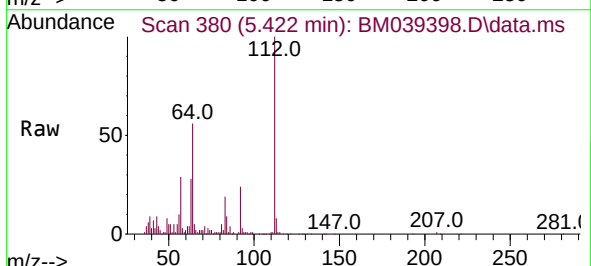
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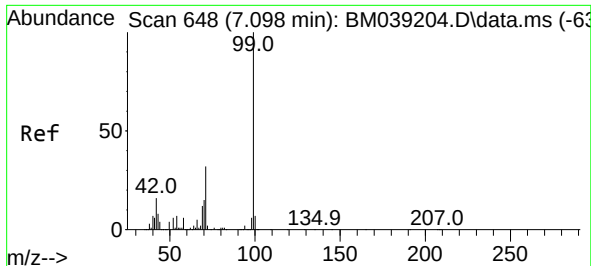
Reviewed By :Christian Giraldo 04/12/2023
Supervised By :Jagrut Upadhyay 04/12/2023



#5
2-Fluorophenol
Concen: 7.682 ng
RT: 5.422 min Scan# 380
Delta R.T. 0.000 min
Lab File: BM039398.D
Acq: 11 Apr 2023 17:59

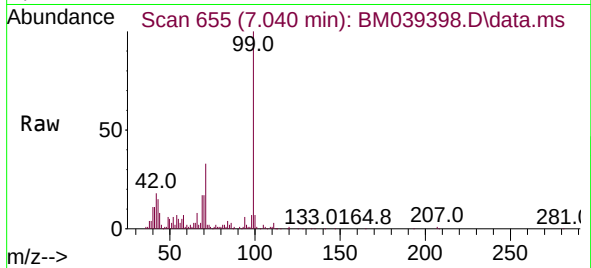
Tgt Ion:112 Resp: 113407
Ion Ratio Lower Upper
112 100
64 56.4 44.3 66.5
63 28.4 23.0 34.6





#7
Phenol-d6
Concen: 6.165 ng
RT: 7.040 min Scan# 61
Delta R.T. 0.006 min
Lab File: BM039398.D
Acq: 11 Apr 2023 17:59

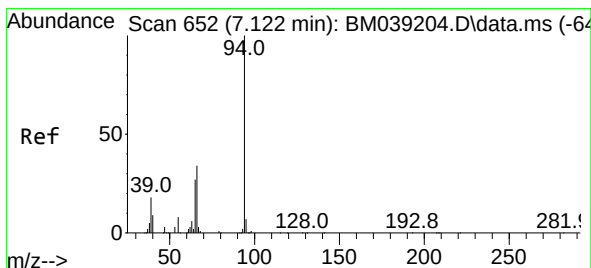
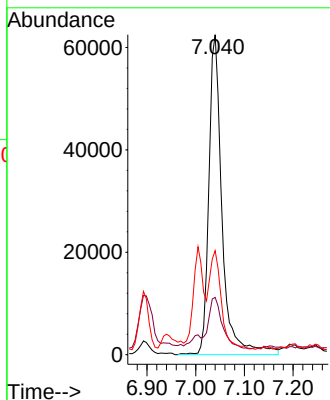
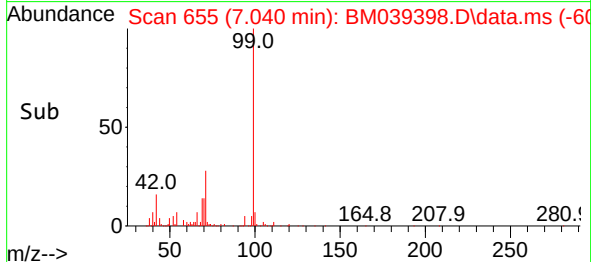
Instrument :
BNA_M
ClientSampleId :
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Tgt Ion: 99 Resp: 117719
Ion Ratio Lower Upper
99 100
42 17.9 13.0 19.6
71 32.5 25.5 38.3

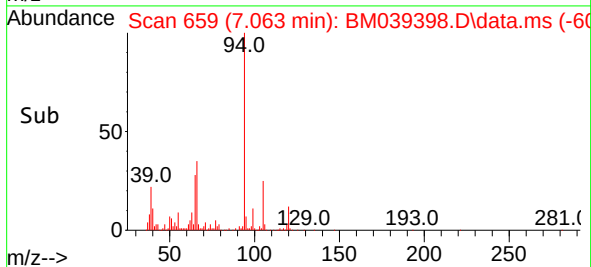
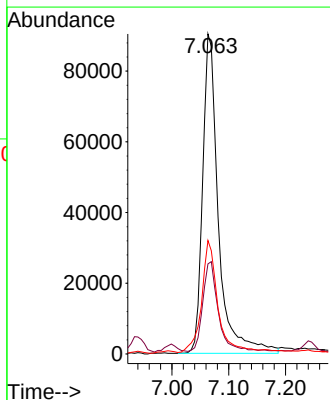
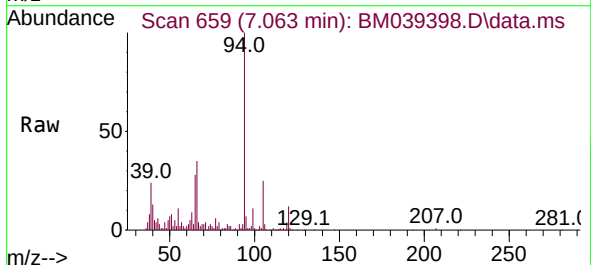
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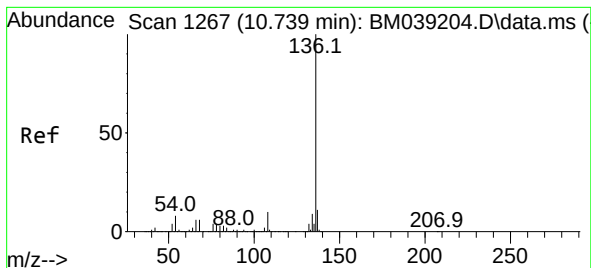
Reviewed By :Christian Giraldo 04/12/2023
Supervised By :Jagrut Upadhyay 04/12/2023



#10
Phenol
Concen: 9.091 ng
RT: 7.063 min Scan# 659
Delta R.T. 0.000 min
Lab File: BM039398.D
Acq: 11 Apr 2023 17:59

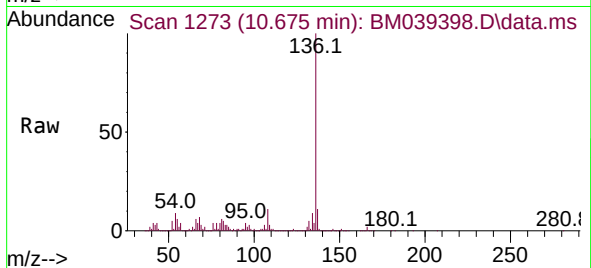
Tgt Ion: 94 Resp: 173941
Ion Ratio Lower Upper
94 100
65 28.2 7.2 47.2
66 35.4 15.2 55.2





#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.675 min Scan# 11
Delta R.T. 0.000 min
Lab File: BM039398.D
Acq: 11 Apr 2023 17:59

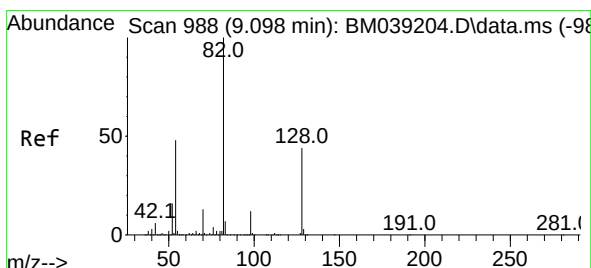
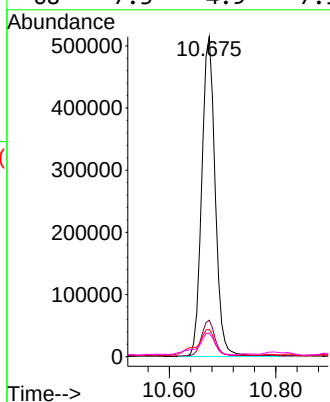
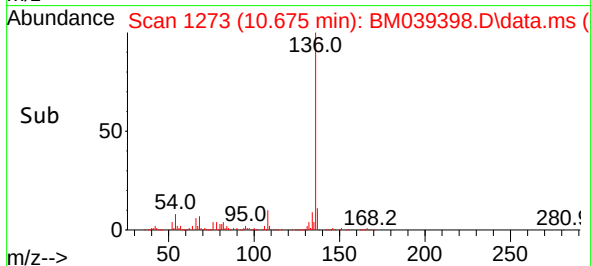
Instrument :
BNA_M
ClientSampleId :
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Tgt Ion:136 Resp: 90055
Ion Ratio Lower Upper
136 100
137 11.4 8.9 13.3
54 8.6 6.2 9.4
68 7.3 4.9 7.3#

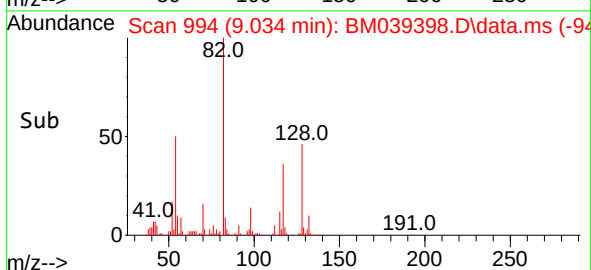
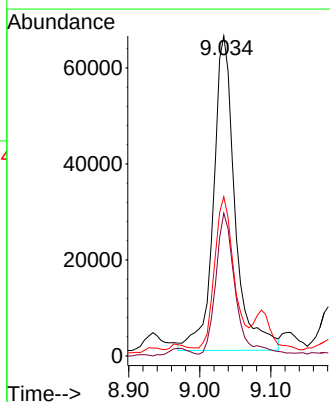
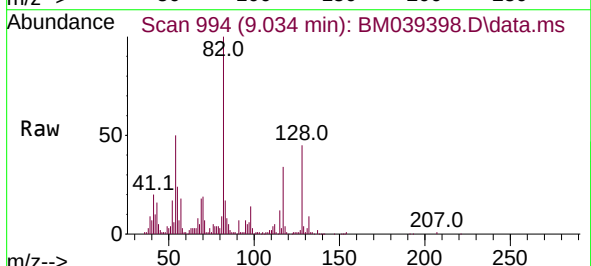
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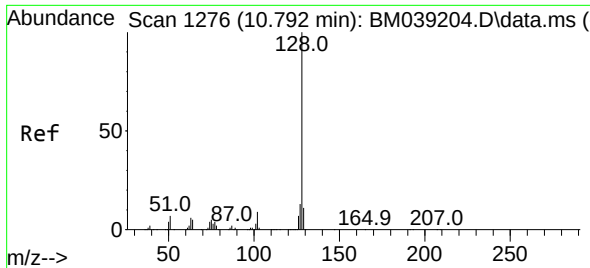
Reviewed By :Christian Giraldo 04/12/2023
Supervised By :Jagrut Upadhyay 04/12/2023



#23
Nitrobenzene-d5
Concen: 7.493 ng
RT: 9.034 min Scan# 994
Delta R.T. 0.000 min
Lab File: BM039398.D
Acq: 11 Apr 2023 17:59

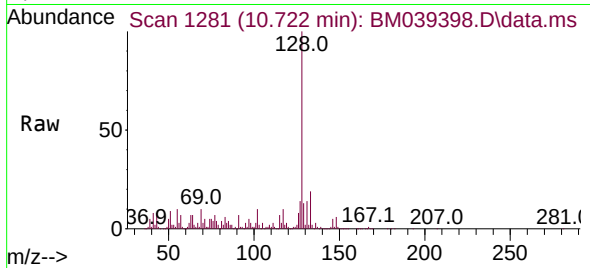
Tgt Ion: 82 Resp: 138836
Ion Ratio Lower Upper
82 100
128 44.6 35.1 52.7
54 49.8 38.5 57.7





#31
Naphthalene
Concen: 7.709 ng
RT: 10.722 min Scan# 11
Delta R.T. 0.000 min
Lab File: BM039398.D
Acq: 11 Apr 2023 17:59

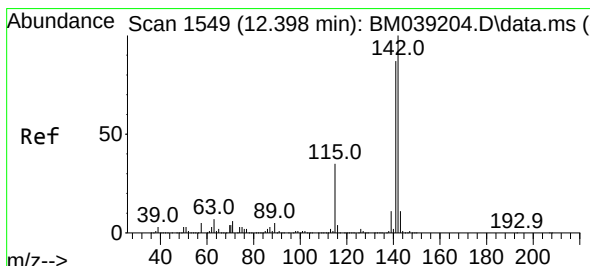
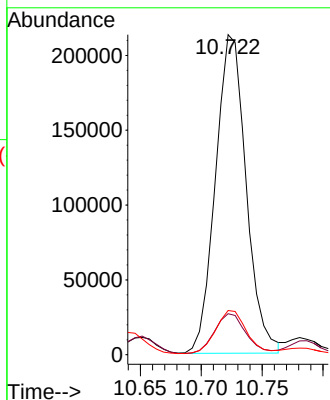
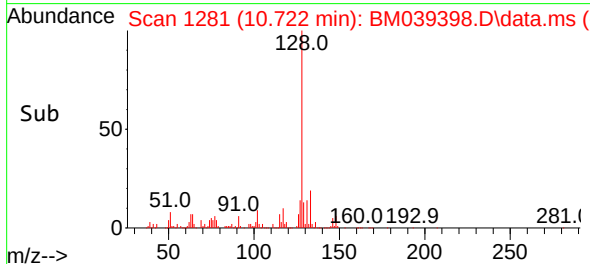
Instrument :
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ClientSampleId :
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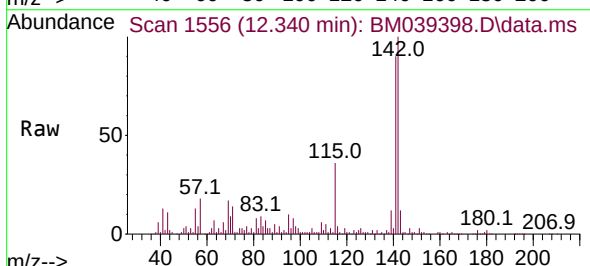
Tgt Ion:128 Resp: 37407
Ion Ratio Lower Upper
128 100
129 12.8 8.6 13.0
127 13.8 10.3 15.5

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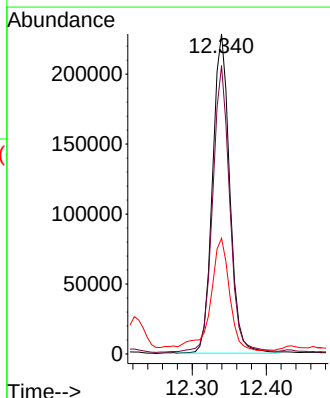
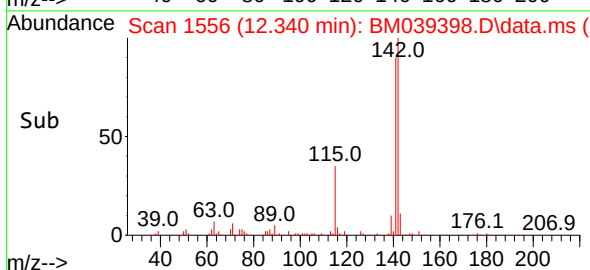
Reviewed By :Christian Giraldo 04/12/2023
Supervised By :Jagrut Upadhyay 04/12/2023

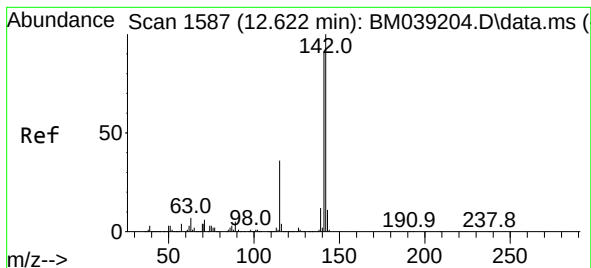


#37
2-Methylnaphthalene
Concen: 10.879 ng
RT: 12.340 min Scan# 1556
Delta R.T. 0.000 min
Lab File: BM039398.D
Acq: 11 Apr 2023 17:59



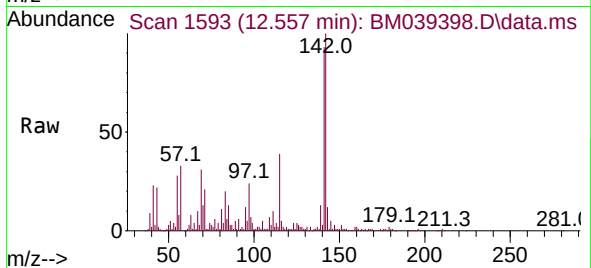
Tgt Ion:142 Resp: 367517
Ion Ratio Lower Upper
142 100
141 90.1 69.8 104.8
115 36.1 27.8 41.8





#38
1-Methylnaphthalene
Concen: 9.190 ng m
RT: 12.557 min Scan# 11
Delta R.T. 0.000 min
Lab File: BM039398.D
Acq: 11 Apr 2023 17:59

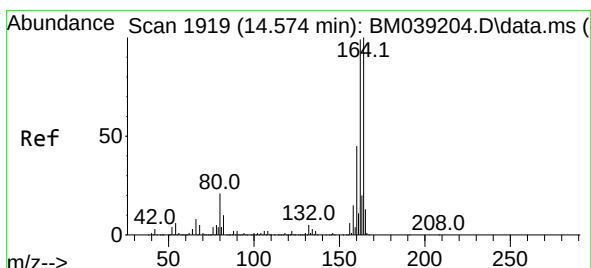
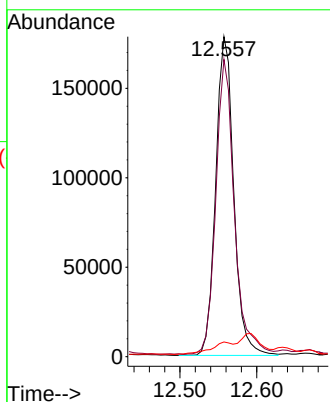
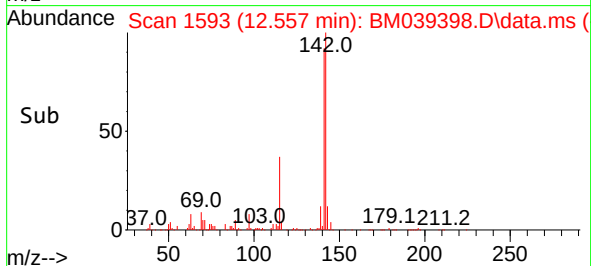
Instrument :
BNA_M
ClientSampleId :
50002-TOTE



Tgt Ion:142 Resp: 290698
Ion Ratio Lower Upper
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141 92.9 73.2 109.8
116 4.6 3.0 4.4

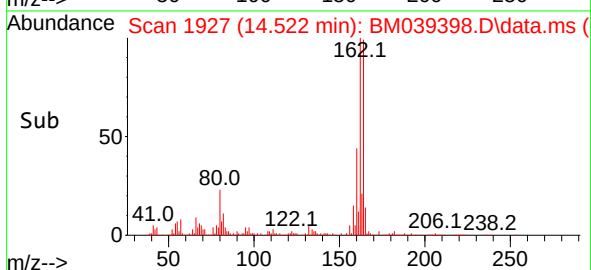
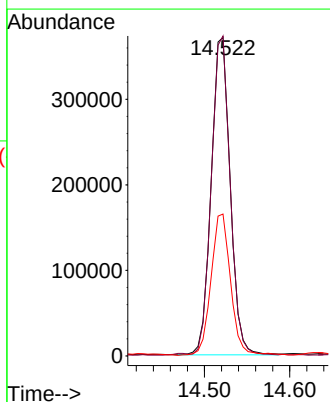
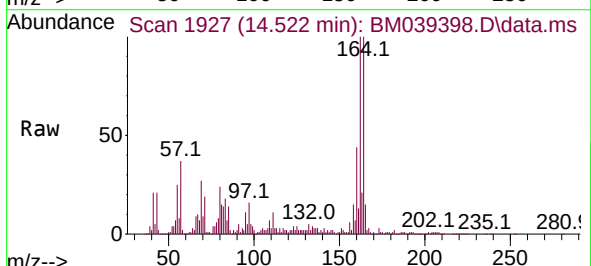
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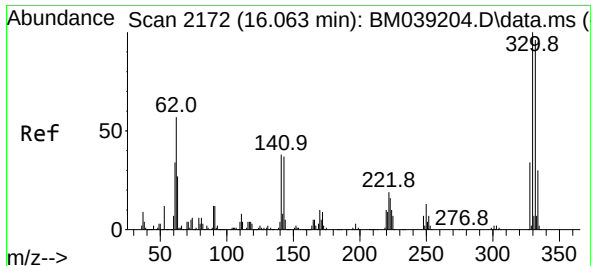
Reviewed By :Christian Giraldo 04/12/2023
Supervised By :Jagrut Upadhyay 04/12/2023



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.522 min Scan# 1927
Delta R.T. 0.006 min
Lab File: BM039398.D
Acq: 11 Apr 2023 17:59

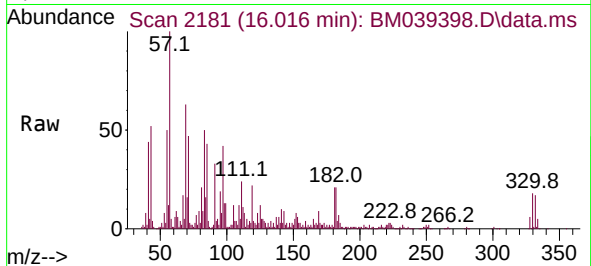
Tgt Ion:164 Resp: 575227
Ion Ratio Lower Upper
164 100
162 100.4 79.1 118.7
160 44.6 35.8 53.8





#42
2,4,6-Tribromophenol
Concen: 9.599 ng
RT: 16.016 min Scan# 2172
Delta R.T. 0.000 min
Lab File: BM039398.D
Acq: 11 Apr 2023 17:59

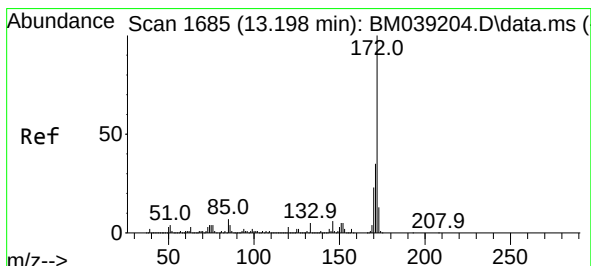
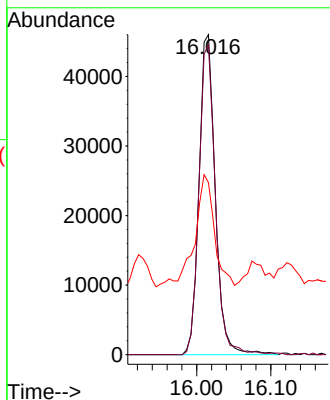
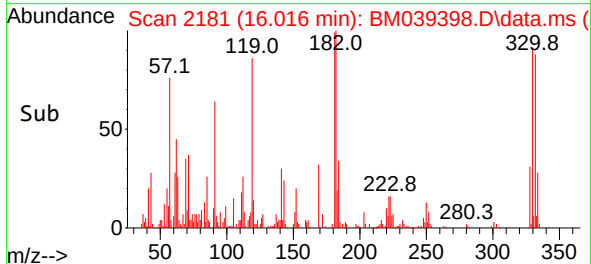
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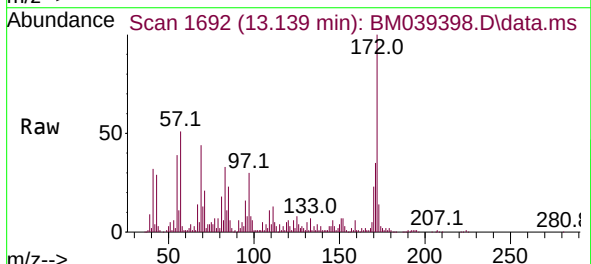
Tgt Ion:330 Resp: 70090
Ion Ratio Lower Upper
330 100
332 97.7 77.4 116.0
141 42.6 29.8 44.6

Manual Integrations
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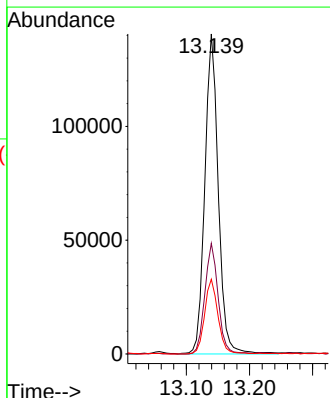
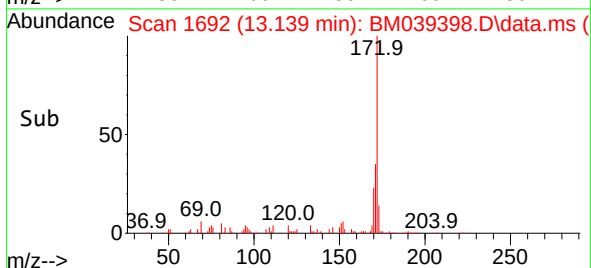
Reviewed By :Christian Giraldo 04/12/2023
Supervised By :Jagrut Upadhyay 04/12/2023

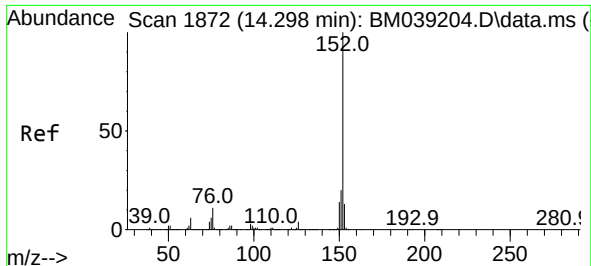


#45
2-Fluorobiphenyl
Concen: 4.922 ng
RT: 13.139 min Scan# 1692
Delta R.T. 0.000 min
Lab File: BM039398.D
Acq: 11 Apr 2023 17:59



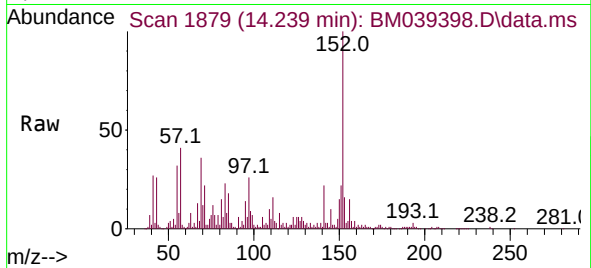
Tgt Ion:172 Resp: 208964
Ion Ratio Lower Upper
172 100
171 34.6 28.0 42.0
170 23.4 18.7 28.1





#49
Acenaphthylene
Concen: 7.351 ng
RT: 14.239 min Scan# 11
Delta R.T. 0.000 min
Lab File: BM039398.D
Acq: 11 Apr 2023 17:59

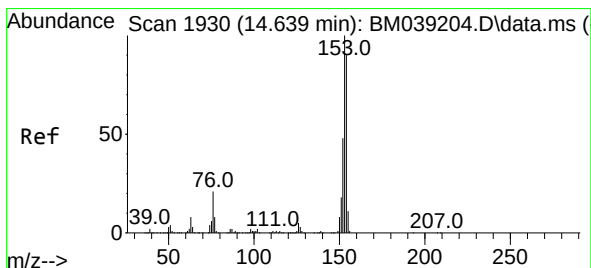
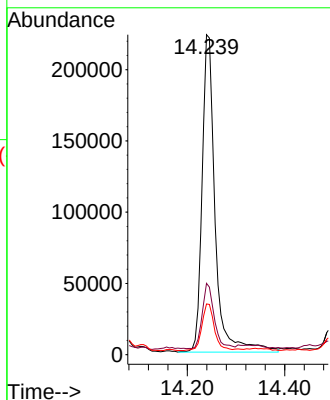
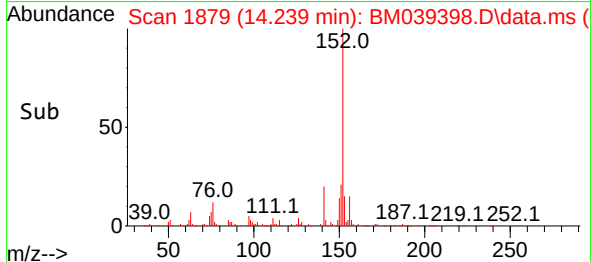
Instrument :
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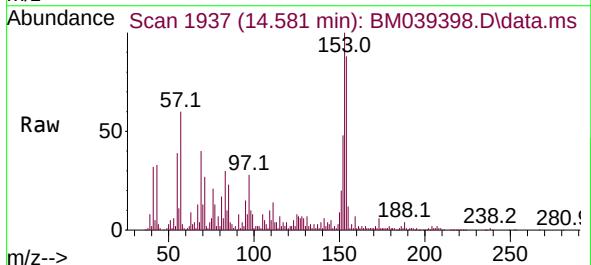
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Ion Ratio Lower Upper
152 100
151 22.3 15.7 23.5
153 15.8 10.3 15.5

Manual Integrations
APPROVED

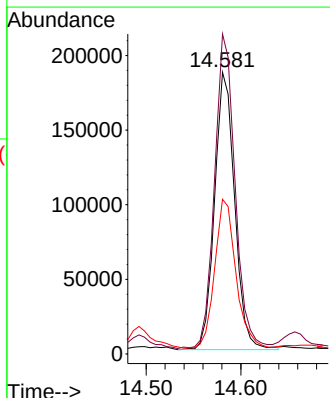
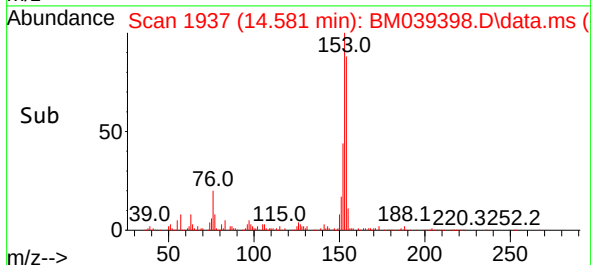
Reviewed By :Christian Giraldo 04/12/2023
Supervised By :Jagrut Upadhyay 04/12/2023

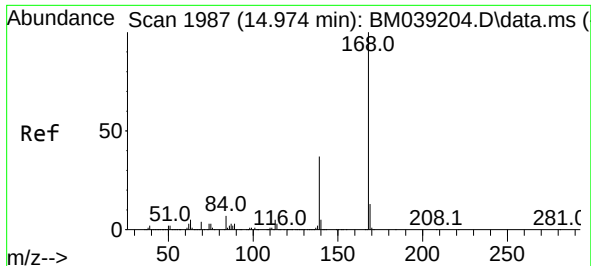


#52
Acenaphthene
Concen: 8.215 ng
RT: 14.581 min Scan# 1937
Delta R.T. -0.006 min
Lab File: BM039398.D
Acq: 11 Apr 2023 17:59



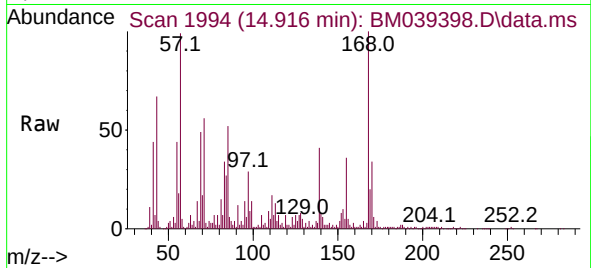
Tgt Ion:154 Resp: 274203
Ion Ratio Lower Upper
154 100
153 113.6 89.1 133.7
152 54.9 42.6 64.0





#55
Dibenzenofuran
Concen: 6.396 ng
RT: 14.916 min Scan# 1987
Delta R.T. 0.000 min
Lab File: BM039398.D
Acq: 11 Apr 2023 17:59

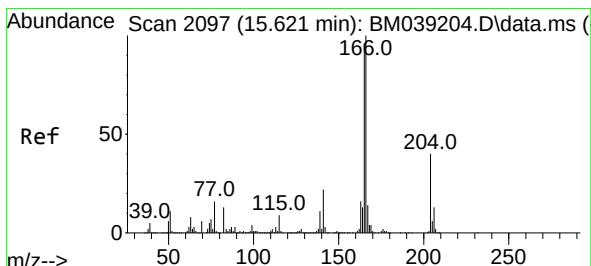
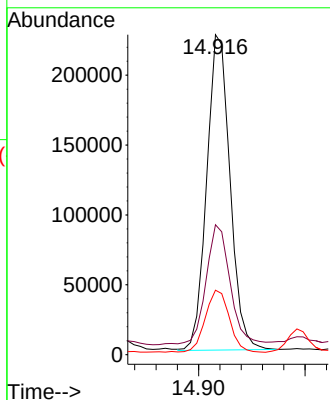
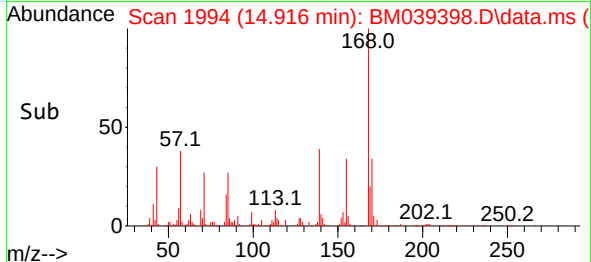
Instrument :
BNA_M
ClientSampleId :
50002-TOTE



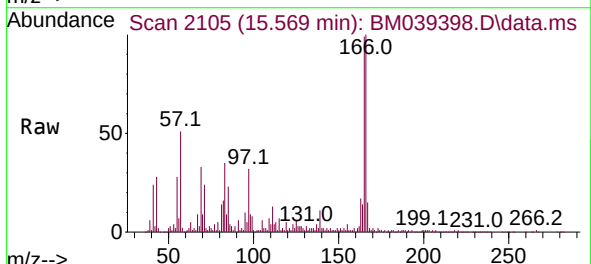
Tgt Ion:168 Resp: 343724
Ion Ratio Lower Upper
168 100
139 40.6 29.4 44.2
169 20.1 10.6 15.8

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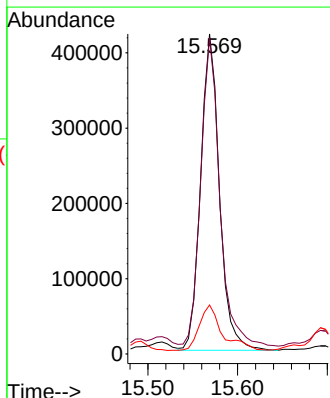
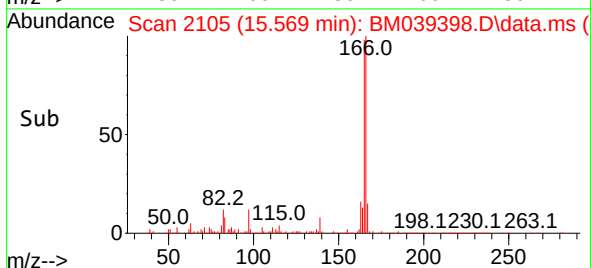
Reviewed By :Christian Giraldo 04/12/2023
Supervised By :Jagrut Upadhyay 04/12/2023

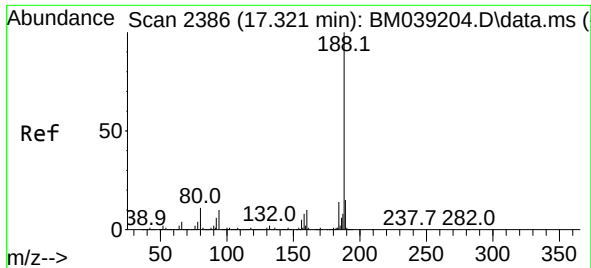


#58
Fluorene
Concen: 14.404 ng
RT: 15.569 min Scan# 2105
Delta R.T. 0.000 min
Lab File: BM039398.D
Acq: 11 Apr 2023 17:59



Tgt Ion:166 Resp: 612939
Ion Ratio Lower Upper
166 100
165 98.8 76.9 115.3
167 15.3 10.8 16.2





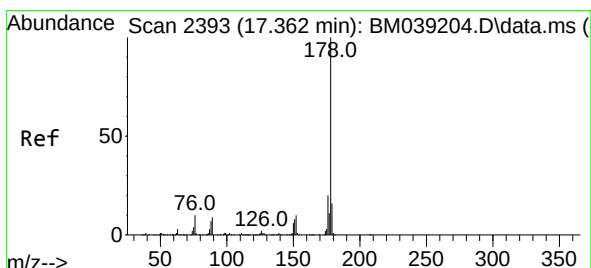
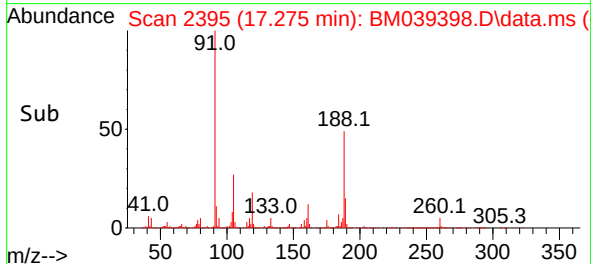
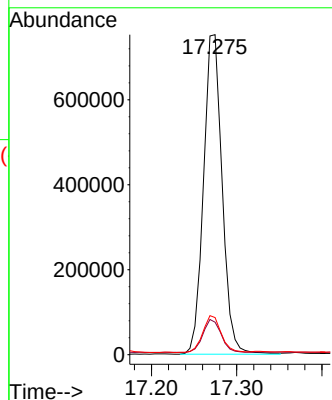
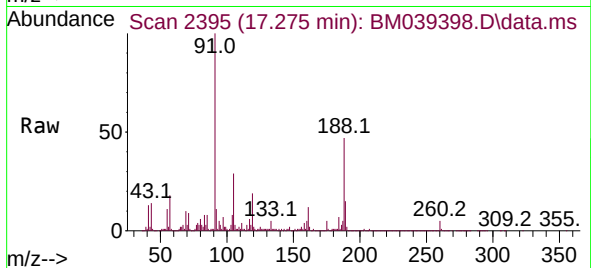
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.275 min Scan# 21
Delta R.T. 0.006 min
Lab File: BM039398.D
Acq: 11 Apr 2023 17:59

Instrument :
BNA_M
ClientSampleId :
50002-TOTE

Tgt Ion:188 Resp: 1144750
Ion Ratio Lower Upper
188 100
94 10.1 8.2 12.4
80 11.6 8.9 13.3

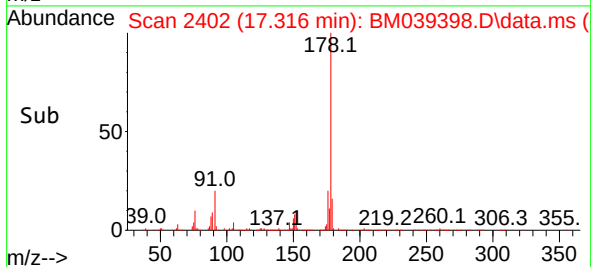
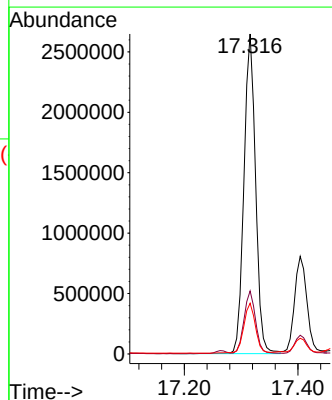
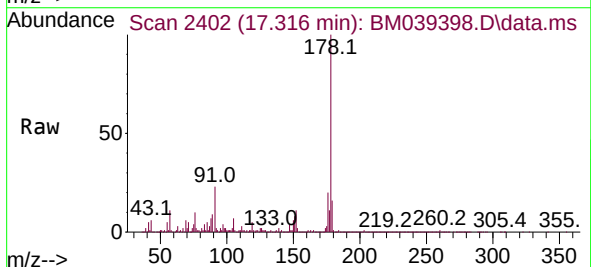
Manual Integrations
APPROVED

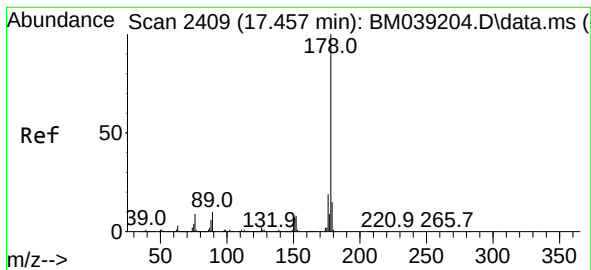
Reviewed By :Christian Giraldo 04/12/2023
Supervised By :Jagrut Upadhyay 04/12/2023



#71
Phenanthrene
Concen: 59.774 ng
RT: 17.316 min Scan# 2402
Delta R.T. 0.006 min
Lab File: BM039398.D
Acq: 11 Apr 2023 17:59

Tgt Ion:178 Resp: 3747586
Ion Ratio Lower Upper
178 100
176 19.7 15.7 23.5
179 15.9 12.4 18.6





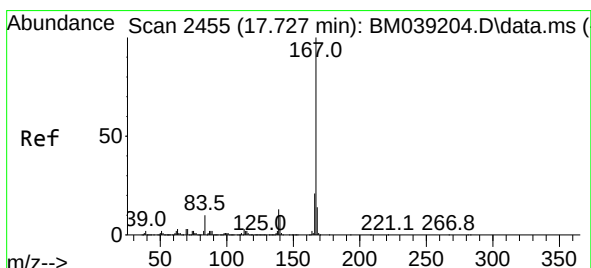
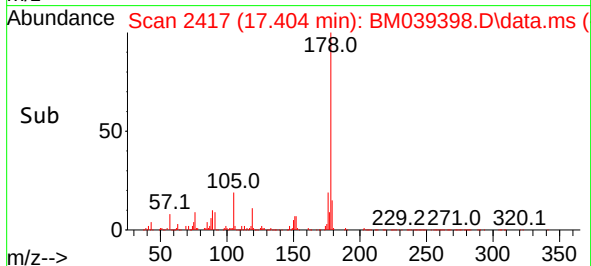
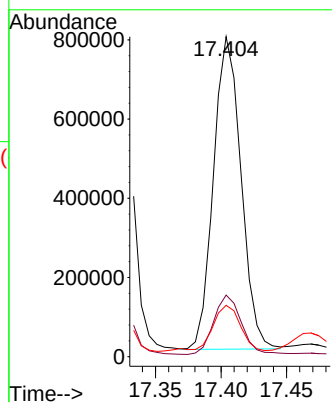
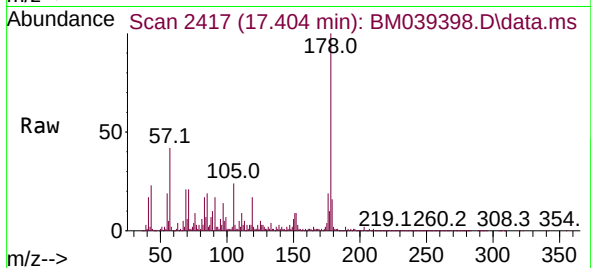
#72
 Anthracene
 Concen: 18.032 ng
 RT: 17.404 min Scan# 2409
 Delta R.T. 0.000 min
 Lab File: BM039398.D
 Acq: 11 Apr 2023 17:59

Instrument :
 BNA_M
 ClientSampleId :
 50002-TOTE

Tgt Ion:178 Resp: 115275
 Ion Ratio Lower Upper
 178 100
 176 19.3 14.9 22.3
 179 16.1 12.2 18.2

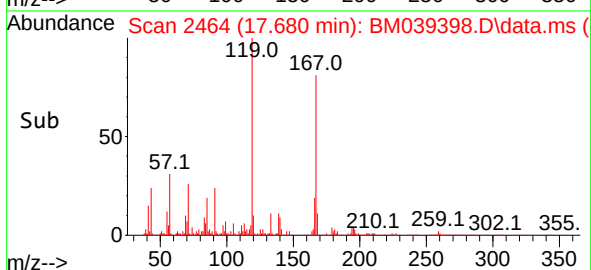
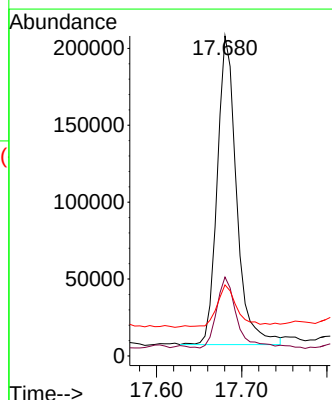
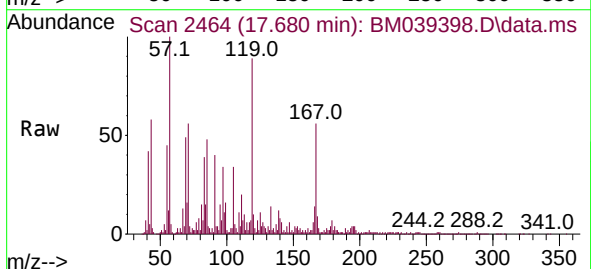
Manual Integrations
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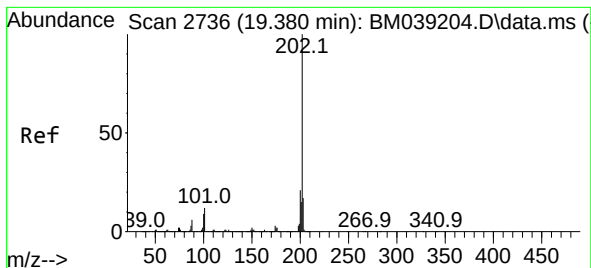
Reviewed By :Christian Giraldo 04/12/2023
 Supervised By :Jagrut Upadhyay 04/12/2023



#73
 Carbazole
 Concen: 5.302 ng
 RT: 17.680 min Scan# 2464
 Delta R.T. 0.000 min
 Lab File: BM039398.D
 Acq: 11 Apr 2023 17:59

Tgt Ion:167 Resp: 316735
 Ion Ratio Lower Upper
 167 100
 166 24.7 17.2 25.8
 139 22.2 10.6 16.0#





#75

Fluoranthene

Concen: 61.844 ng

RT: 19.339 min Scan# 21

Delta R.T. 0.006 min

Lab File: BM039398.D

Acq: 11 Apr 2023 17:59

Instrument :

BNA_M

ClientSampleId :

50002-TOTE

Tgt Ion:202 Resp: 441988

Ion Ratio Lower Upper

202 100

101 12.9 0.0 32.5

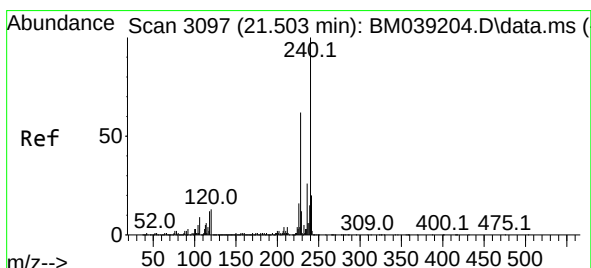
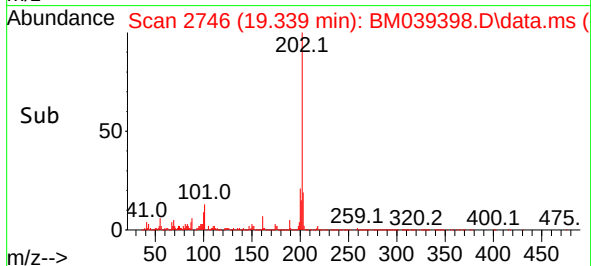
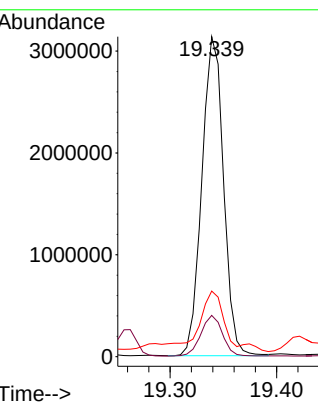
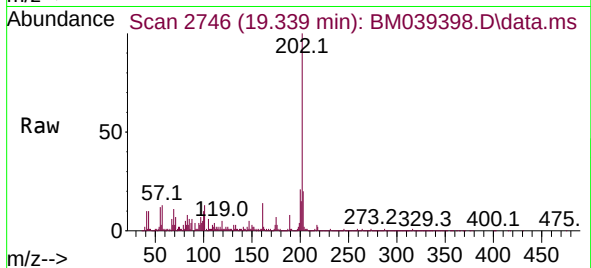
203 20.5 0.0 37.5

Manual Integrations

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Reviewed By :Christian Giraldo 04/12/2023

Supervised By :Jagrut Upadhyay 04/12/2023



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.468 min Scan# 3108

Delta R.T. 0.006 min

Lab File: BM039398.D

Acq: 11 Apr 2023 17:59

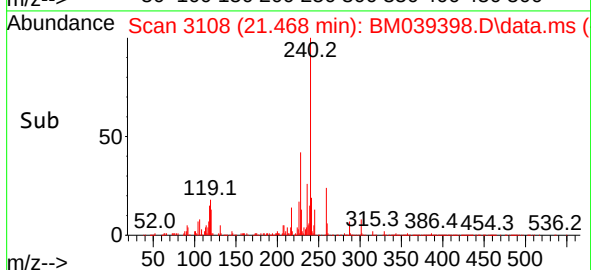
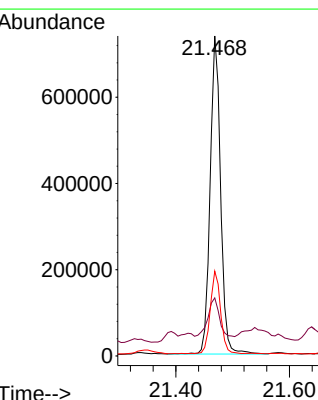
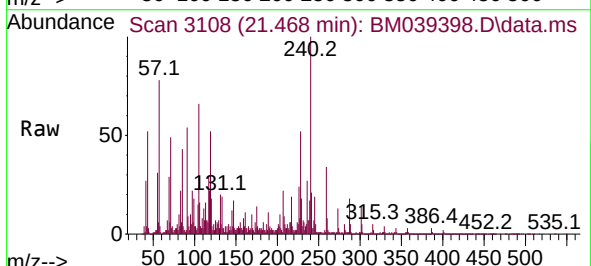
Tgt Ion:240 Resp: 943997

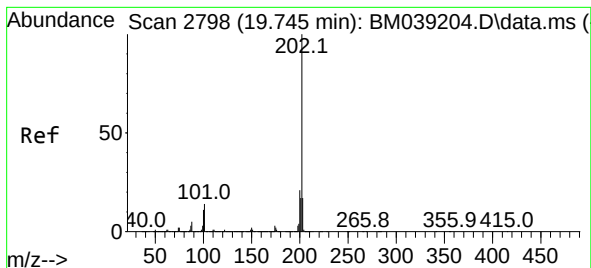
Ion Ratio Lower Upper

240 100

120 18.1 10.2 15.2#

236 26.5 20.9 31.3





#78

Pyrene

Concen: 63.497 ng

RT: 19.704 min Scan# 21

Delta R.T. 0.006 min

Lab File: BM039398.D

Acq: 11 Apr 2023 17:59

Instrument :

BNA_M

ClientSampleId :

50002-TOTE

Tgt Ion:202 Resp: 4267184

Ion Ratio Lower Upper

202 100

200 21.1 17.1 25.7

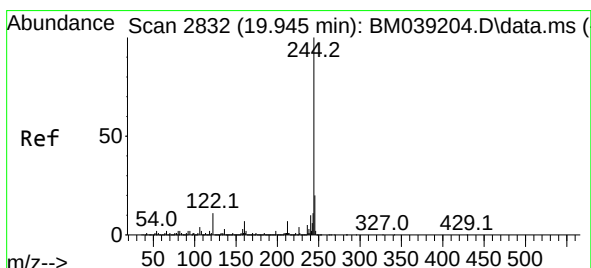
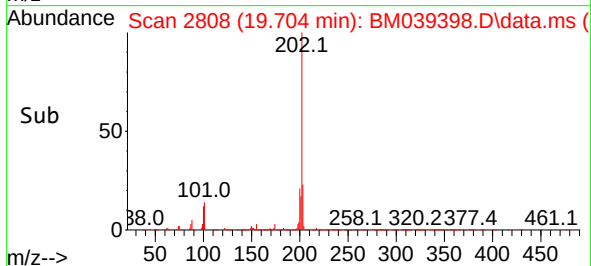
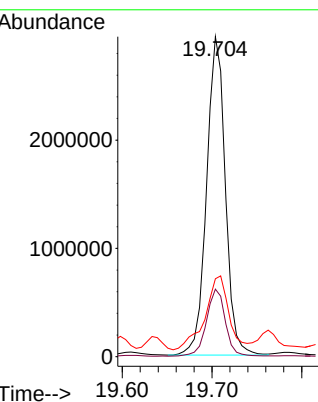
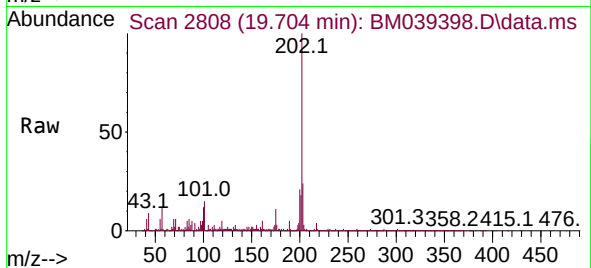
203 24.3 13.9 20.9

Manual Integrations

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Reviewed By :Christian Giraldo 04/12/2023

Supervised By :Jagrut Upadhyay 04/12/2023



#79

Terphenyl-d14

Concen: 5.191 ng

RT: 19.904 min Scan# 2842

Delta R.T. 0.006 min

Lab File: BM039398.D

Acq: 11 Apr 2023 17:59

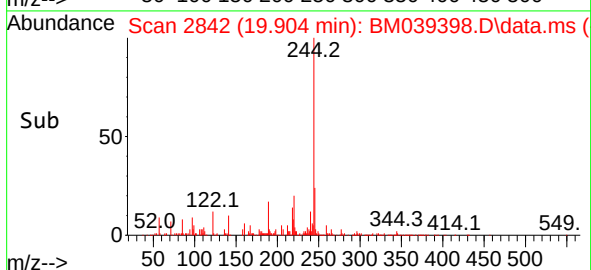
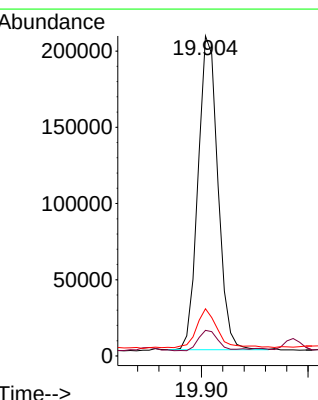
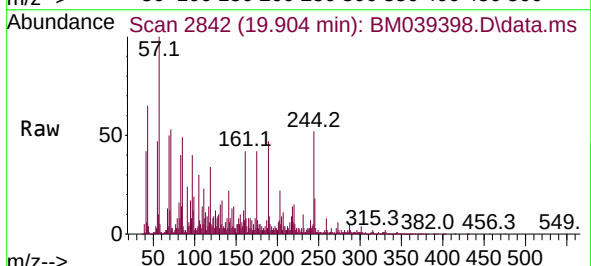
Tgt Ion:244 Resp: 265222

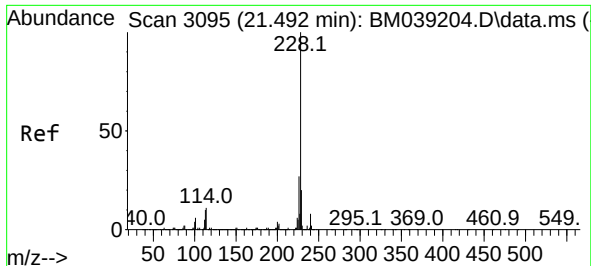
Ion Ratio Lower Upper

244 100

212 8.0 5.6 8.4

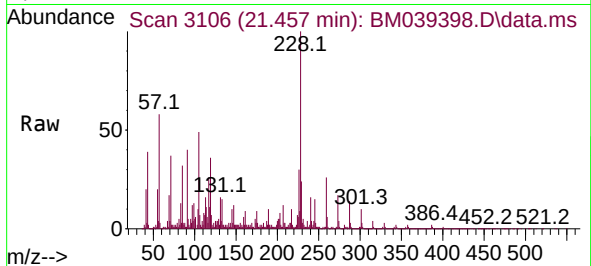
122 14.7 9.1 13.7#





#81
Benzo(a)anthracene
Concen: 27.912 ng
RT: 21.457 min Scan# 3106
Delta R.T. 0.012 min
Lab File: BM039398.D
Acq: 11 Apr 2023 17:59

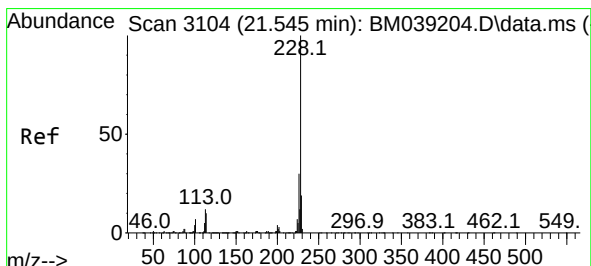
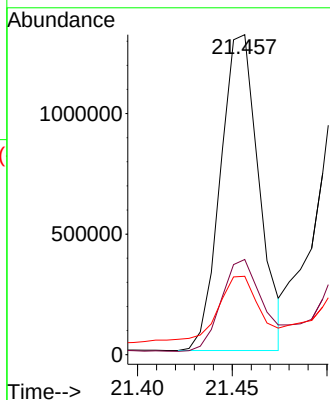
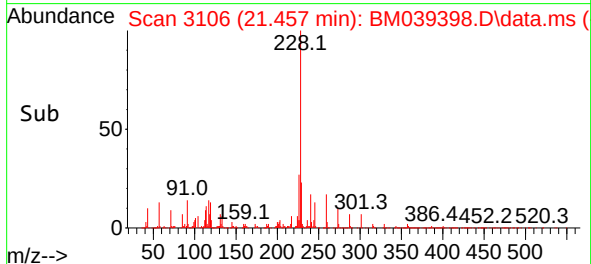
Instrument :
BNA_M
ClientSampleId :
50002-TOTE



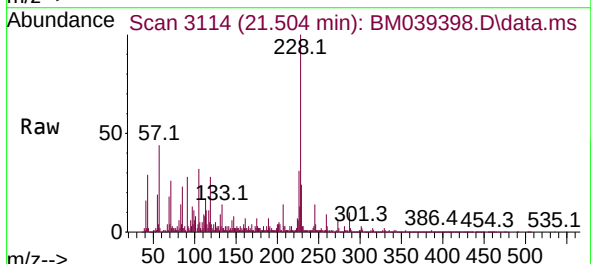
Tgt Ion:228 Resp: 185829
Ion Ratio Lower Upper
228 100
226 29.7 21.9 32.9
229 24.5 15.8 23.6

Manual Integrations
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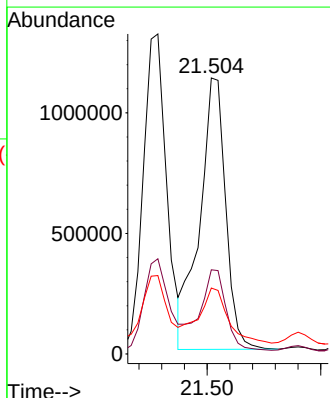
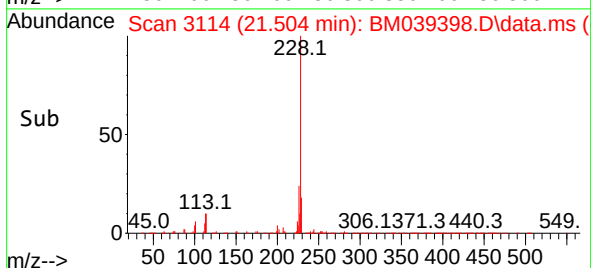
Reviewed By :Christian Giraldo 04/12/2023
Supervised By :Jagrut Upadhyay 04/12/2023

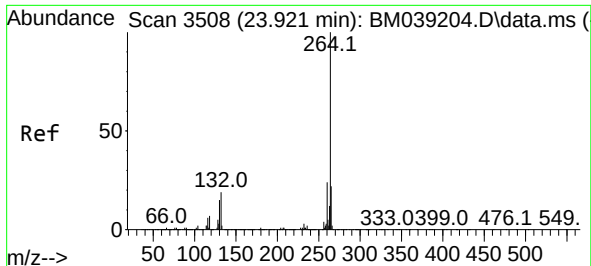


#83
Chrysene
Concen: 27.955 ng
RT: 21.504 min Scan# 3114
Delta R.T. 0.000 min
Lab File: BM039398.D
Acq: 11 Apr 2023 17:59



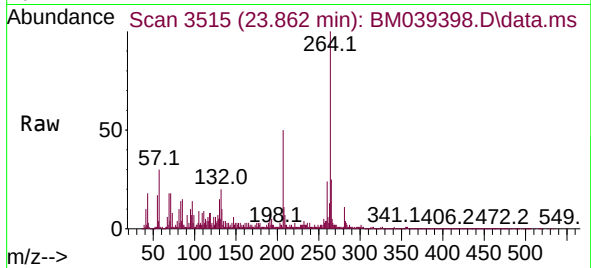
Tgt Ion:228 Resp: 1796688
Ion Ratio Lower Upper
228 100
226 30.5 24.1 36.1
229 23.9 15.5 23.3





#86
Perylene-d12
Concen: 20.000 ng
RT: 23.862 min Scan# 31
Delta R.T. 0.012 min
Lab File: BM039398.D
Acq: 11 Apr 2023 17:59

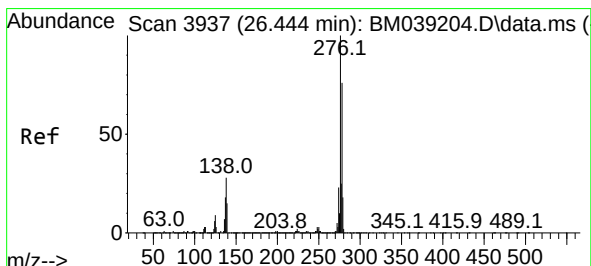
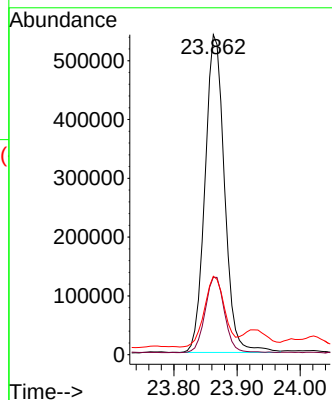
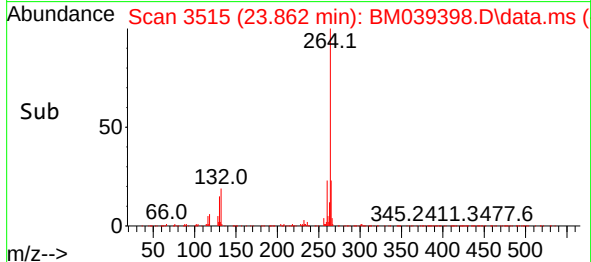
Instrument :
BNA_M
ClientSampleId :
50002-TOTE



Tgt Ion:264 Resp: 115662
Ion Ratio Lower Upper
264 100
260 24.2 19.0 28.6
265 24.5 18.1 27.1

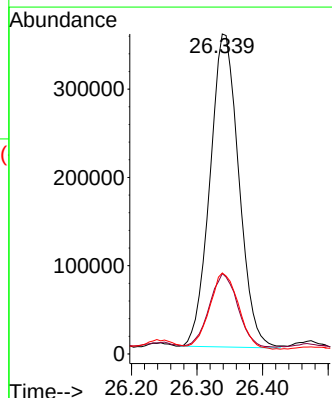
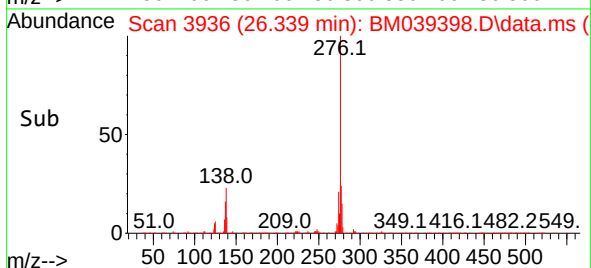
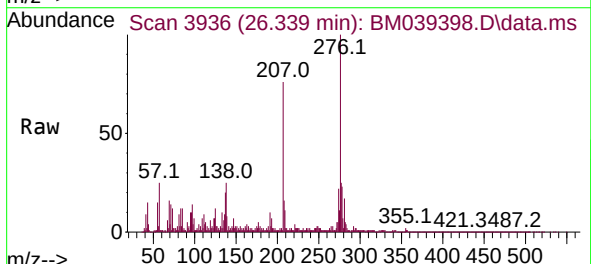
Manual Integrations
APPROVED

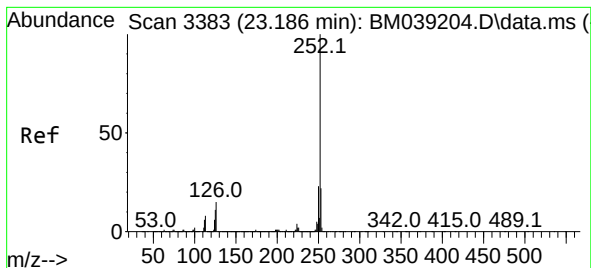
Reviewed By :Christian Giraldo 04/12/2023
Supervised By :Jagrut Upadhyay 04/12/2023



#87
Indeno(1,2,3-cd)pyrene
Concen: 12.712 ng
RT: 26.339 min Scan# 3936
Delta R.T. 0.000 min
Lab File: BM039398.D
Acq: 11 Apr 2023 17:59

Tgt Ion:276 Resp: 1083346
Ion Ratio Lower Upper
276 100
138 23.9 22.2 33.2
277 24.7 20.2 30.2





#88

Benzo(b)fluoranthene

Concen: 31.324 ng

RT: 23.139 min Scan# 3392

Delta R.T. 0.012 min

Lab File: BM039398.D

Acq: 11 Apr 2023 17:59

Instrument :

BNA_M

ClientSampleId :

50002-TOTE

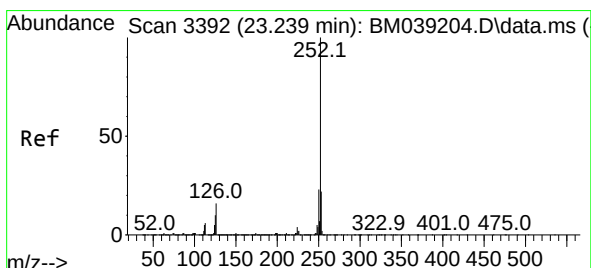
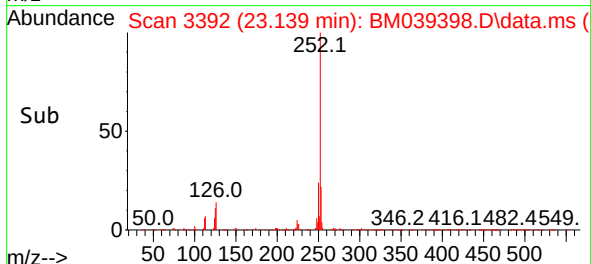
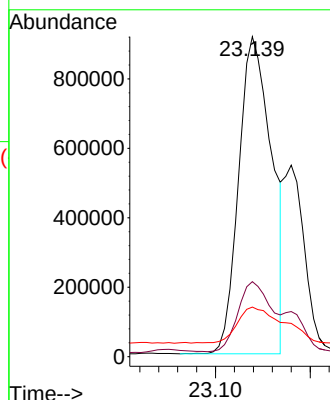
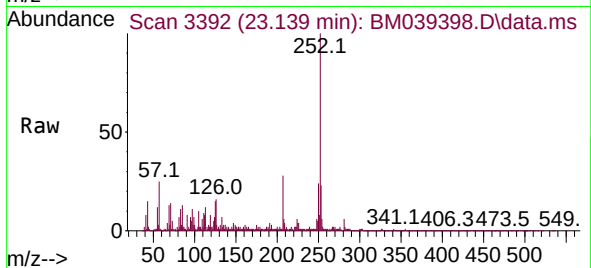
Tgt Ion:252 Resp: 221685

Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.6	26.4
125	15.5	9.0	13.6

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 04/12/2023
Supervised By :Jagrut Upadhyay 04/12/2023



#89

Benzo(k)fluoranthene

Concen: 11.120 ng m

RT: 23.180 min Scan# 3399

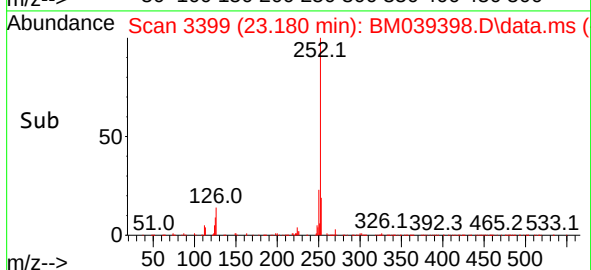
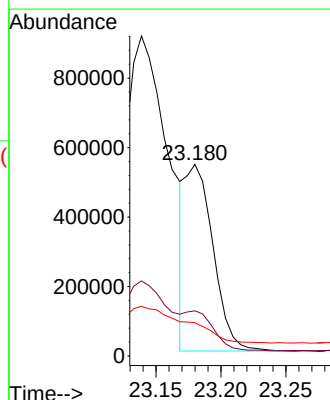
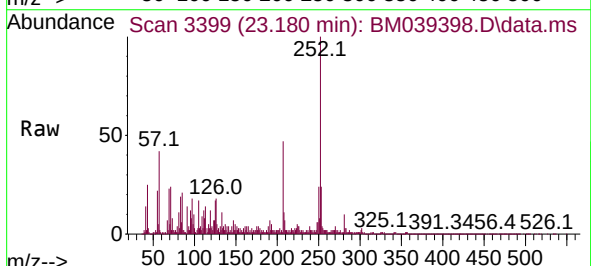
Delta R.T. 0.006 min

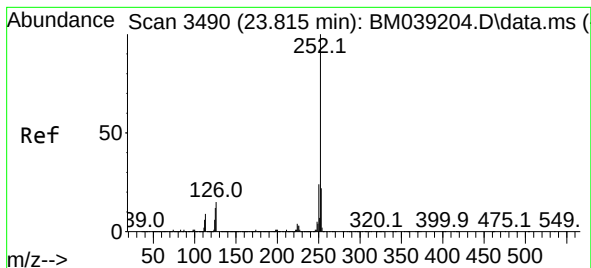
Lab File: BM039398.D

Acq: 11 Apr 2023 17:59

Tgt Ion:252 Resp: 801640

Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.8	26.8
125	17.4	8.5	12.7





#90

Benzo(a)pyrene

Concen: 25.922 ng

RT: 23.756 min Scan# 34

Delta R.T. 0.006 min

Lab File: BM039398.D

Acq: 11 Apr 2023 17:59

Instrument :

BNA_M

ClientSampleId :

50002-TOTE

Tgt Ion:252 Resp: 1802200

Ion Ratio Lower Upper

252 100

253 23.0 17.6 26.4

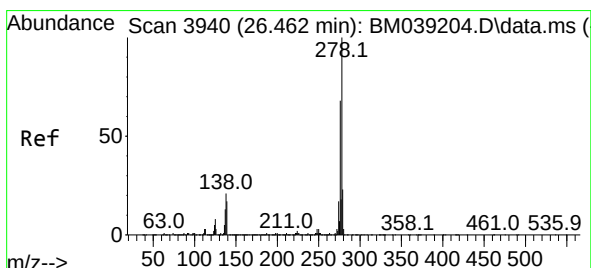
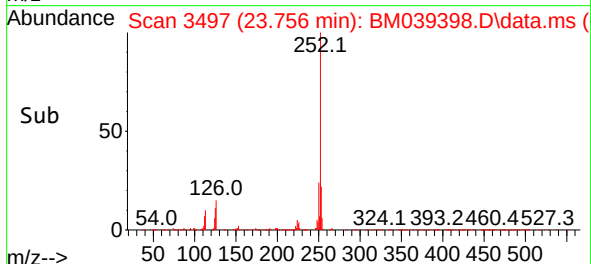
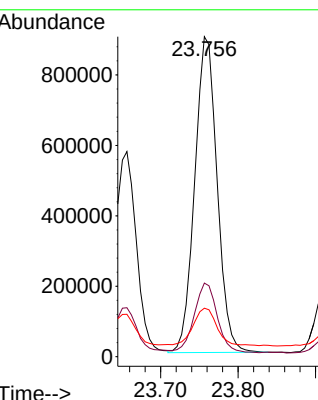
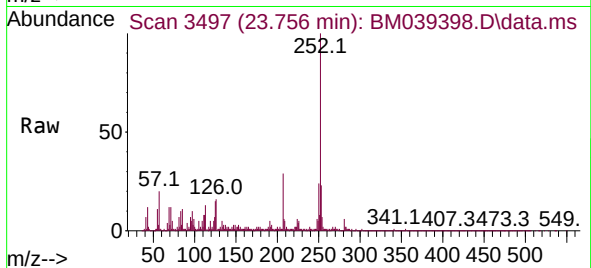
125 15.2 9.8 14.6

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 04/12/2023

Supervised By :Jagrut Upadhyay 04/12/2023



#91

Dibenzo(a,h)anthracene

Concen: 4.282 ng

RT: 26.344 min Scan# 3937

Delta R.T. -0.006 min

Lab File: BM039398.D

Acq: 11 Apr 2023 17:59

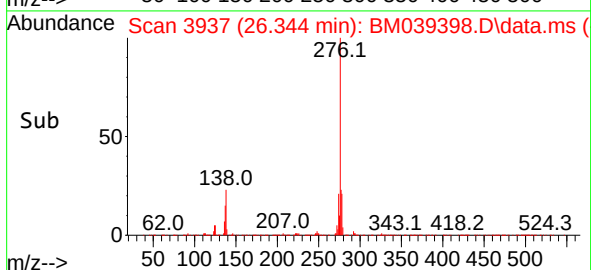
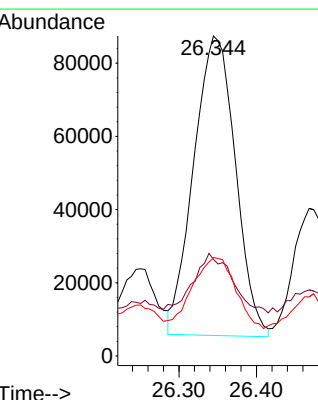
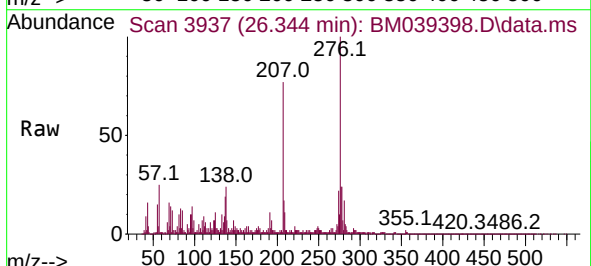
Tgt Ion:278 Resp: 306442

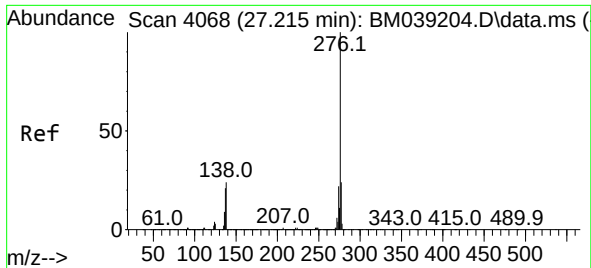
Ion Ratio Lower Upper

278 100

139 30.2 13.9 20.9#

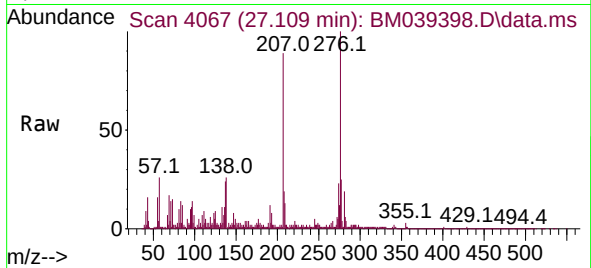
279 30.8 18.8 28.2#





#92
Benzo(g,h,i)perylene
Concen: 15.639 ng
RT: 27.109 min Scan# 4067
Delta R.T. 0.006 min
Lab File: BM039398.D
Acq: 11 Apr 2023 17:59

Instrument :
BNA_M
ClientSampleId :
50002-TOTE



Tgt Ion:276 Resp: 110054
Ion Ratio Lower Upper
276 100
277 25.4 19.1 28.7
138 25.7 19.5 29.3

Manual Integrations
APPROVED

Reviewed By :Christian Giraldo 04/12/2023
Supervised By :Jagrut Upadhyay 04/12/2023

