

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040425\
 Data File : BM049826.D
 Acq On : 04 Apr 2025 16:40
 Operator : RC/JU
 Sample : Q1712-01 2X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 Z-05A

Manual Integrations
 APPROVED

Reviewed By :Anahy Claudio 04/07/2025
 Supervised By :Jagrut Upadhyay 04/07/2025

Quant Time: Apr 04 17:59:29 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM031325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 13 14:55:34 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.786	152	325158	20.000	ng	-0.02
21) Naphthalene-d8	10.580	136	1204280	20.000	ng	-0.02
39) Acenaphthene-d10	14.427	164	824601	20.000	ng	-0.02
64) Phenanthrene-d10	17.174	188	1658092	20.000	ng	-0.01
76) Chrysene-d12	21.415	240	2035250	20.000	ng	-0.01
86) Perylene-d12	24.427	264	2022366	20.000	ng	#-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.369	112	899091	46.656	ng	-0.02
7) Phenol-d6	6.957	99	1183545	48.940	ng	-0.02
23) Nitrobenzene-d5	8.939	82	698273	29.769	ng	-0.02
42) 2,4,6-Tribromophenol	15.915	330	545905	56.695	ng	-0.02
45) 2-Fluorobiphenyl	13.045	172	1693556	25.721	ng	-0.02
79) Terphenyl-d14	19.792	244	2575926	21.328	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	10.627	128	1195172	19.300	ng	99
37) 2-Methylnaphthalene	12.245	142	456722	10.548	ng	98
38) 1-Methylnaphthalene	12.463	142	434377	10.398	ng	99
46) 1,1'-Biphenyl	13.257	154	171370	2.696	ng	99
49) Acenaphthylene	14.151	152	1770124	25.600	ng	99
52) Acenaphthene	14.492	154	1003936	22.135	ng	100
55) Dibenzofuran	14.827	168	1491337	19.733	ng	99
58) Fluorene	15.474	166	1945000	31.610	ng	99
71) Phenanthrene	17.209	178	19500249m	211.799	ng	
72) Anthracene	17.309	178	7206325	80.820	ng	100
73) Carbazole	17.574	167	3094068	38.316	ng	99
75) Fluoranthene	19.227	202	21299831m	200.943	ng	
78) Pyrene	19.592	202	21520233m	151.344	ng	
81) Benzo(a)anthracene	21.391	228	18668969	137.331	ng	# 77
83) Chrysene	21.456	228	18477549	143.388	ng	# 85
87) Indeno(1,2,3-cd)pyrene	27.850	276	11873447	81.570	ng	# 96
88) Benzo(b)fluoranthene	23.491	252	26334483	193.333	ng	97
89) Benzo(k)fluoranthene	23.544	252	8816014m	65.775	ng	
90) Benzo(a)pyrene	24.303	252	18963613m	165.745	ng	
91) Dibenzo(a,h)anthracene	27.873	278	3342649	27.563	ng	96
92) Benzo(g,h,i)perylene	28.915	276	10858247	88.887	ng	99

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

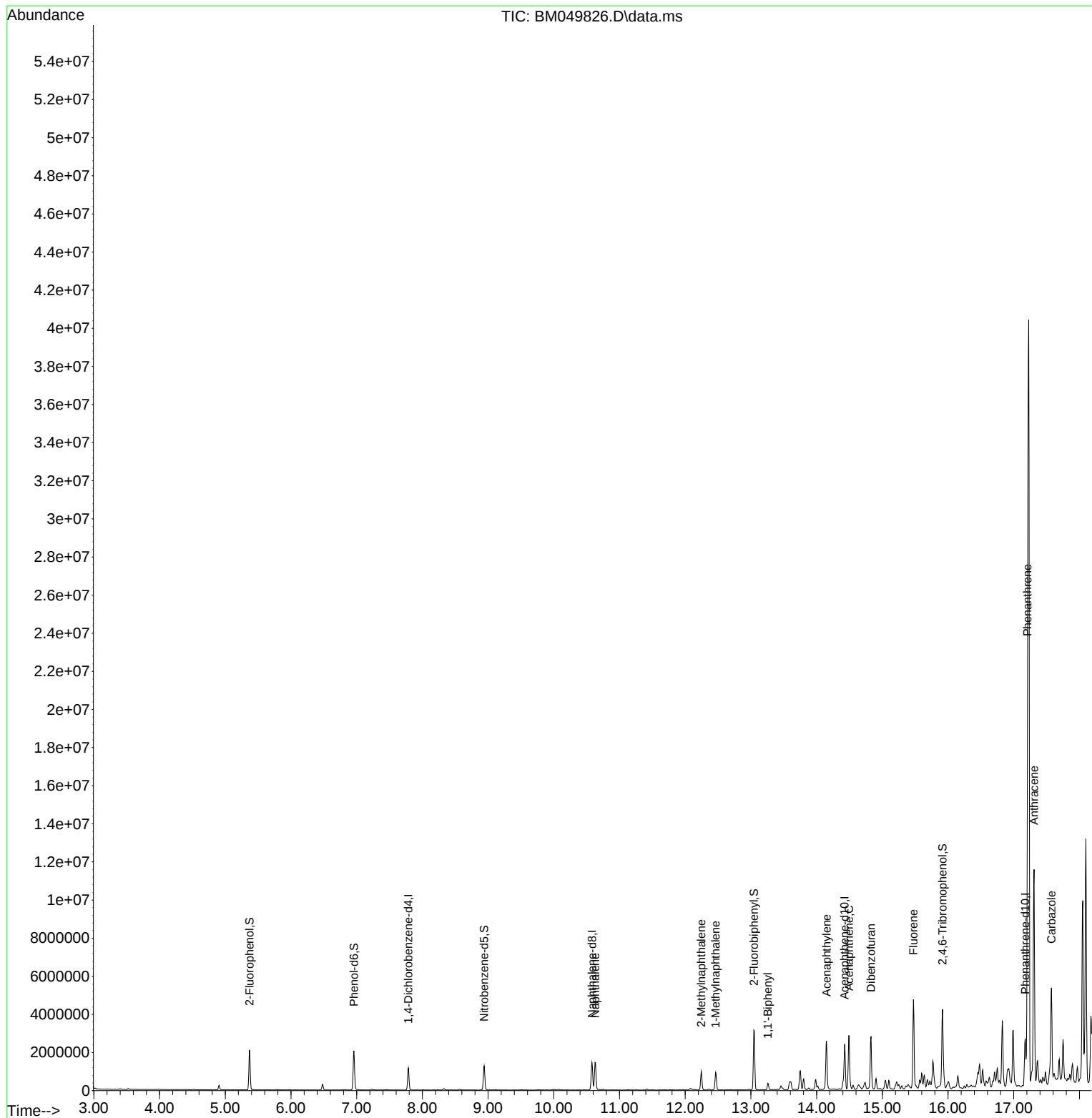
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040425\
Data File : BM049826.D
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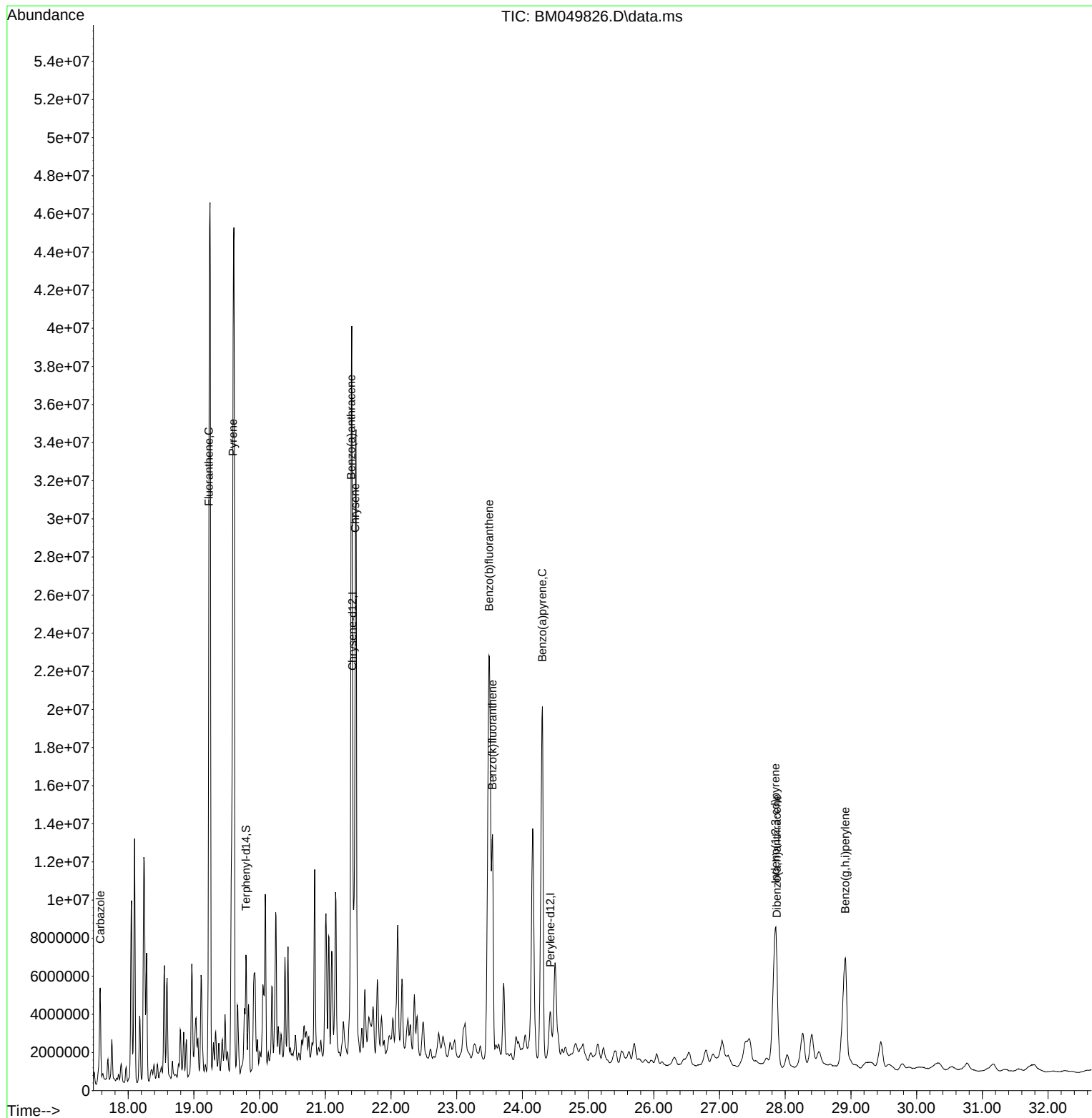
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040425\
Data File : BM049826.D
Acq On : 04 Apr 2025 16:40
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Sample : Q1712-01 2X
Misc :
ALS Vial : 11 Sample Multiplier: 1

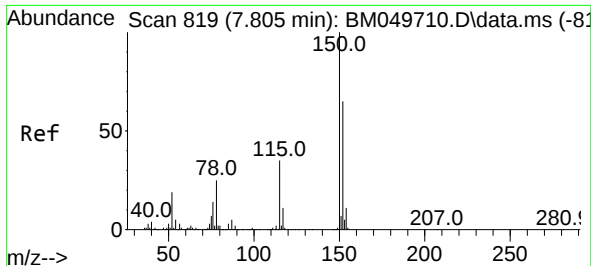
Instrument :
BNA_M
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Quant Time: Apr 04 17:59:29 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM031325.M
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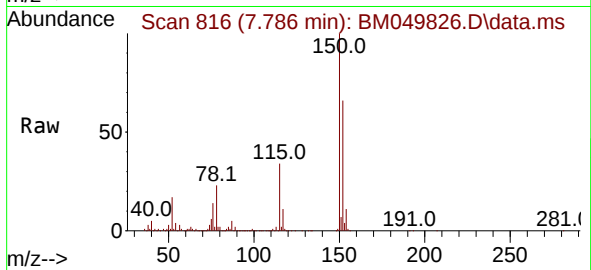
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.786 min Scan# 819
Delta R.T. -0.019 min
Lab File: BM049826.D
Acq: 04 Apr 2025 16:40

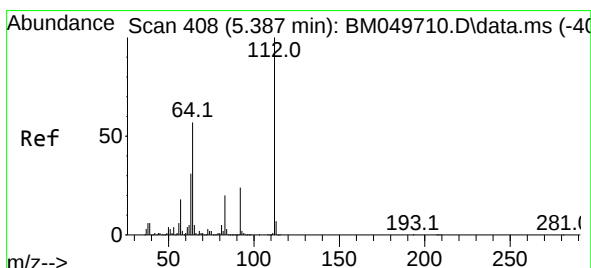
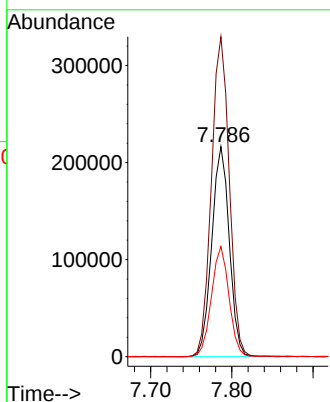
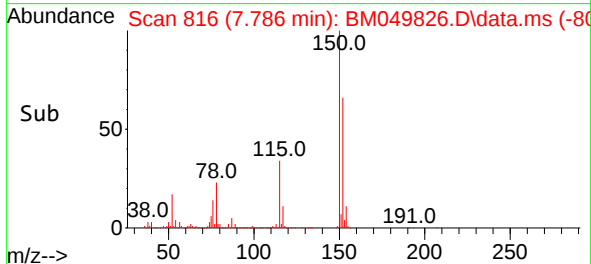
Instrument :
BNA_M
ClientSampleId :
Z-05A



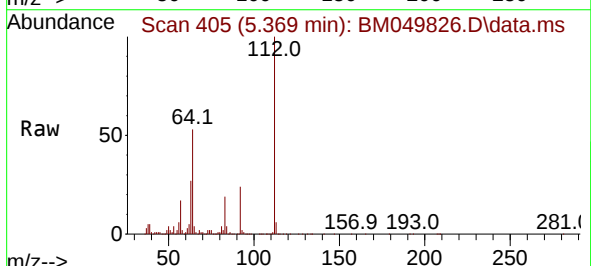
Tgt Ion:152 Resp: 325158
Ion Ratio Lower Upper
152 100
150 152.3 123.8 185.8
115 52.5 43.0 64.6

Manual Integrations
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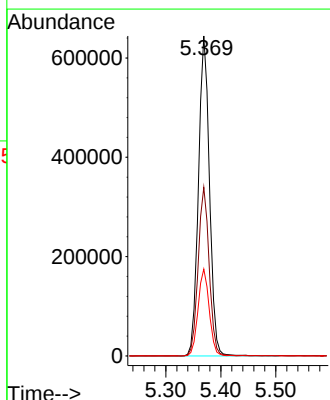
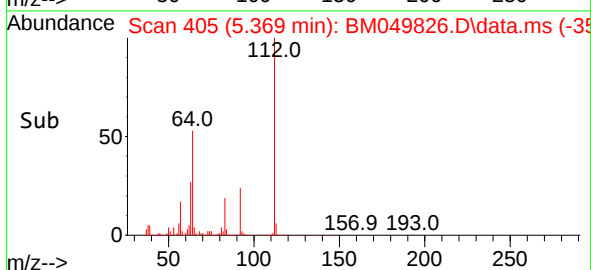
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

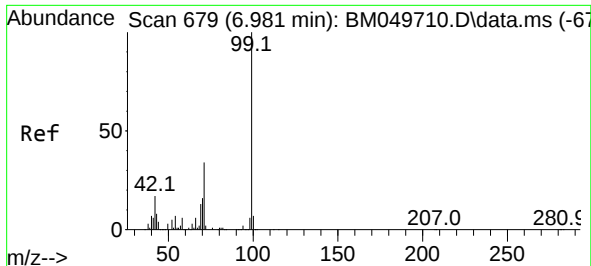


#5
2-Fluorophenol
Concen: 46.656 ng
RT: 5.369 min Scan# 405
Delta R.T. -0.018 min
Lab File: BM049826.D
Acq: 04 Apr 2025 16:40



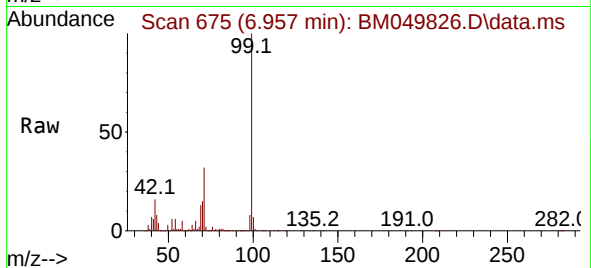
Tgt Ion:112 Resp: 899091
Ion Ratio Lower Upper
112 100
64 52.7 45.3 67.9
63 27.1 24.4 36.6





#7
Phenol-d6
Concen: 48.940 ng
RT: 6.957 min Scan# 61
Delta R.T. -0.024 min
Lab File: BM049826.D
Acq: 04 Apr 2025 16:40

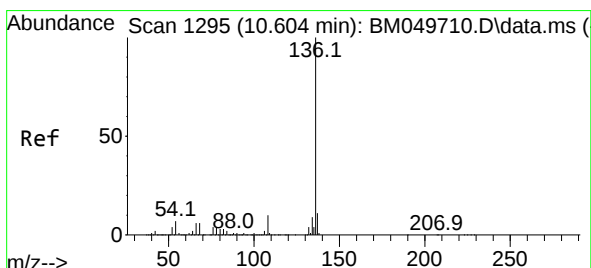
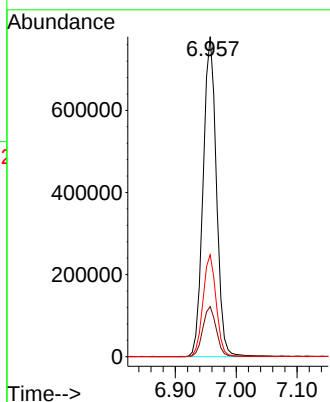
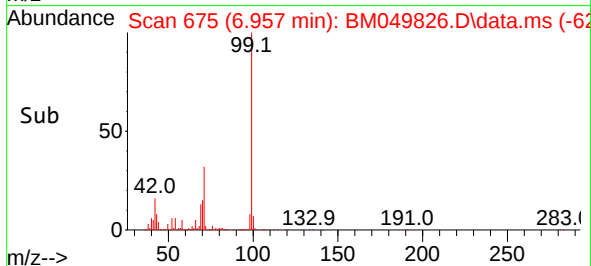
Instrument :
BNA_M
ClientSampleId :
Z-05A



Tgt Ion: 99 Resp: 118354
Ion Ratio Lower Upper
99 100
42 15.6 13.6 20.4
71 31.8 27.0 40.6

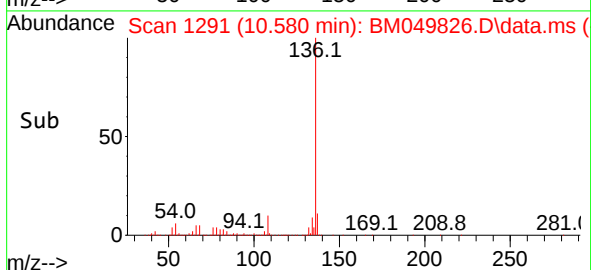
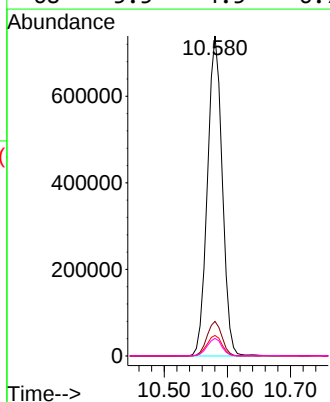
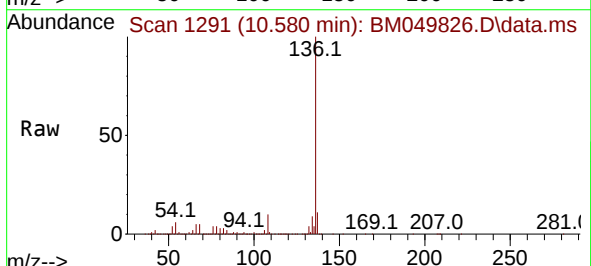
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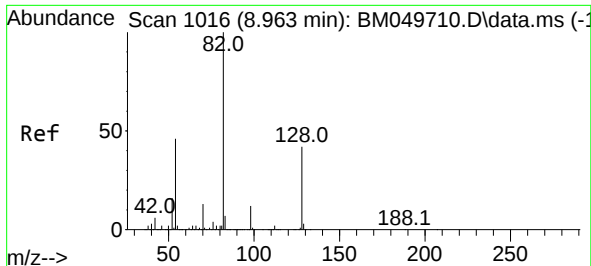
Reviewed By :Anahy Claudio 04/07/2025
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#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.580 min Scan# 1291
Delta R.T. -0.024 min
Lab File: BM049826.D
Acq: 04 Apr 2025 16:40

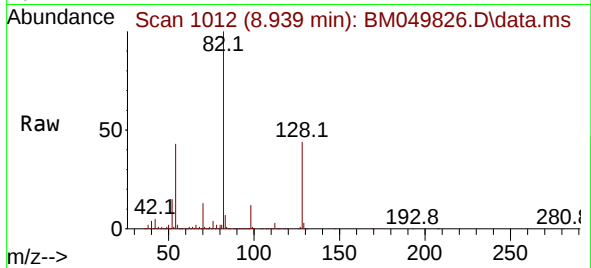
Tgt Ion:136 Resp: 1204280
Ion Ratio Lower Upper
136 100
137 10.8 8.6 12.8
54 6.4 5.8 8.8
68 5.5 4.5 6.7





#23
Nitrobenzene-d5
Concen: 29.769 ng
RT: 8.939 min Scan# 1016
Delta R.T. -0.024 min
Lab File: BM049826.D
Acq: 04 Apr 2025 16:40

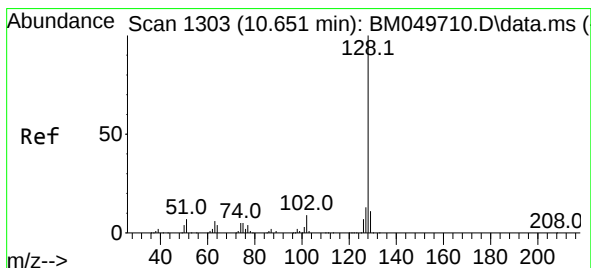
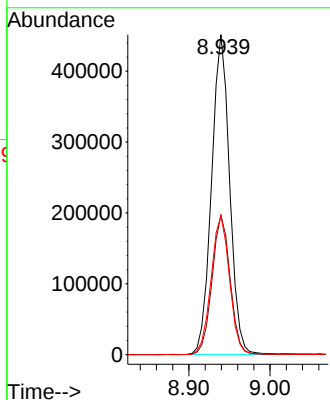
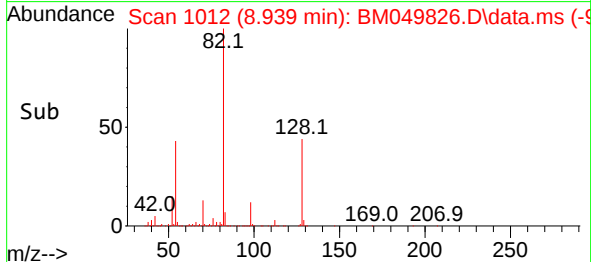
Instrument :
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ClientSampleId :
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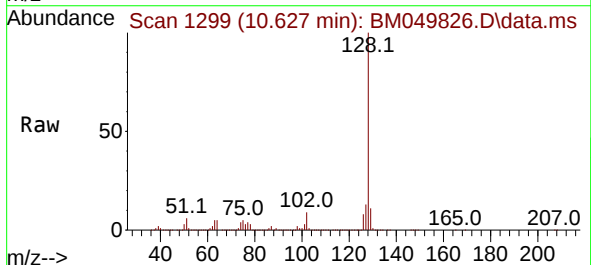
Tgt Ion: 82 Resp: 69827
Ion Ratio Lower Upper
82 100
128 43.5 33.4 50.0
54 43.4 36.4 54.6

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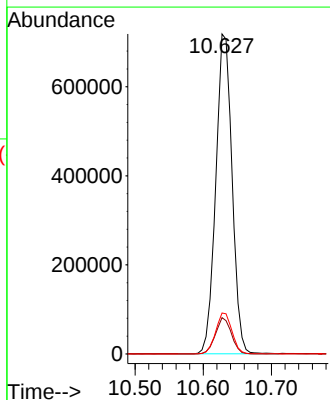
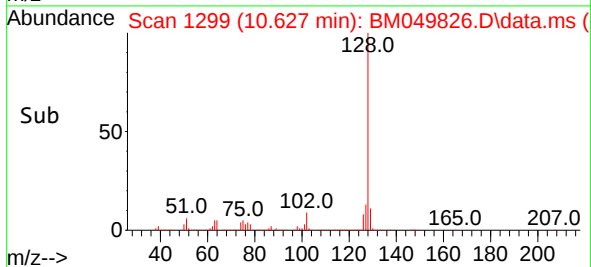
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

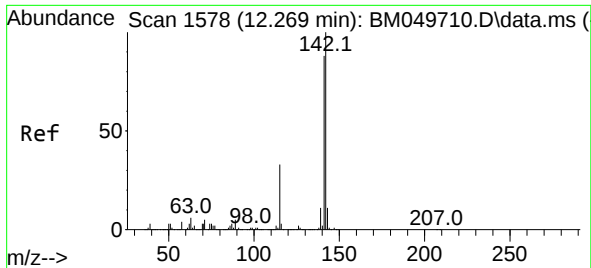


#31
Naphthalene
Concen: 19.300 ng
RT: 10.627 min Scan# 1299
Delta R.T. -0.024 min
Lab File: BM049826.D
Acq: 04 Apr 2025 16:40



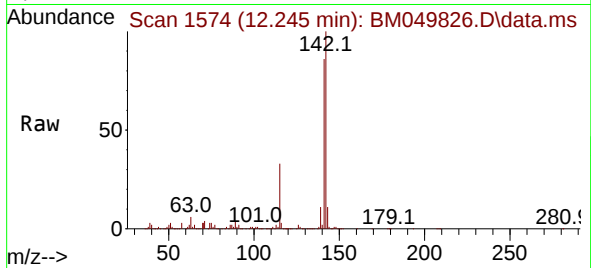
Tgt Ion:128 Resp: 1195172
Ion Ratio Lower Upper
128 100
129 11.3 8.6 13.0
127 12.8 10.4 15.6





#37
2-Methylnaphthalene
Concen: 10.548 ng
RT: 12.245 min Scan# 1574
Delta R.T. -0.024 min
Lab File: BM049826.D
Acq: 04 Apr 2025 16:40

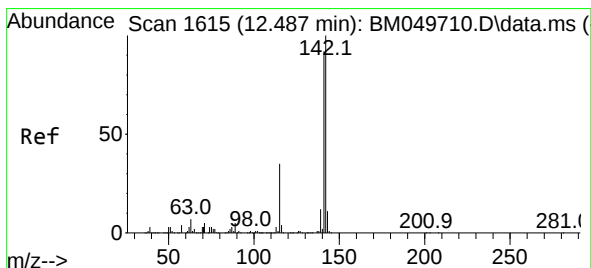
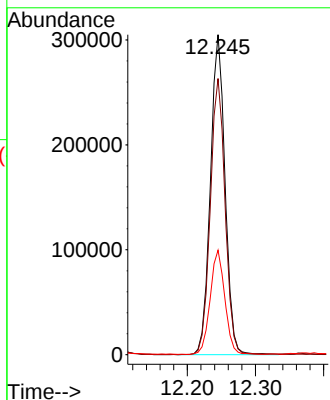
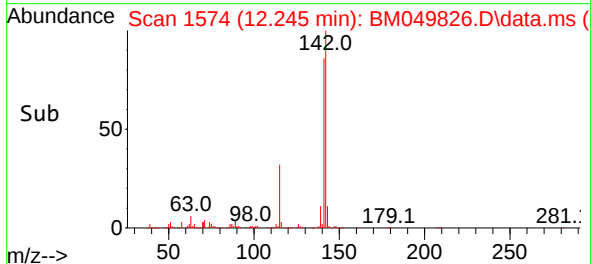
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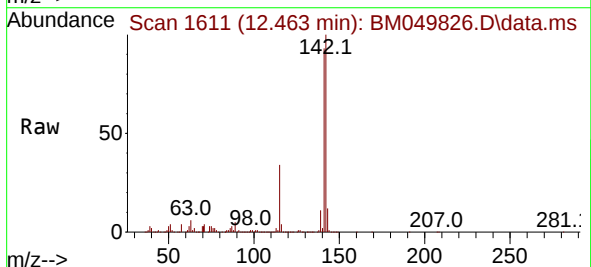
Tgt Ion:142 Resp: 45672
Ion Ratio Lower Upper
142 100
141 86.3 70.5 105.7
115 32.6 26.5 39.7

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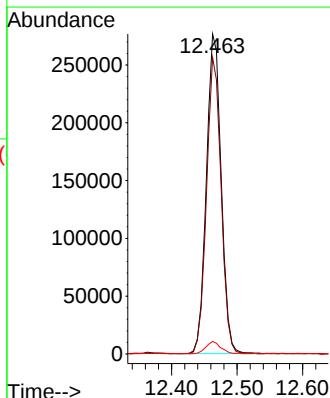
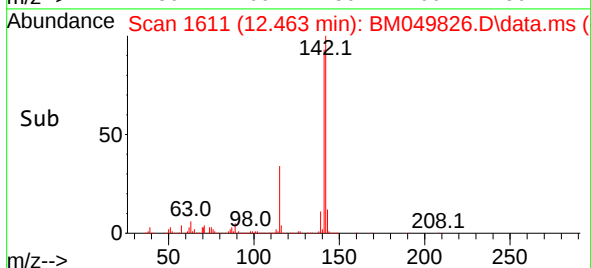
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

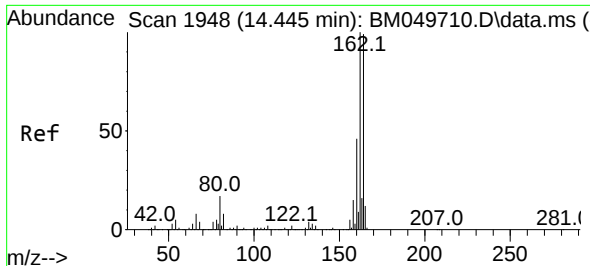


#38
1-Methylnaphthalene
Concen: 10.398 ng
RT: 12.463 min Scan# 1611
Delta R.T. -0.024 min
Lab File: BM049826.D
Acq: 04 Apr 2025 16:40



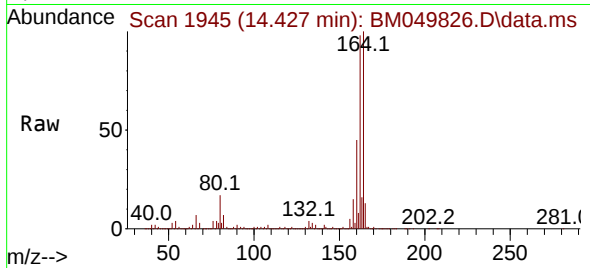
Tgt Ion:142 Resp: 434377
Ion Ratio Lower Upper
142 100
141 92.6 73.4 110.2
116 3.9 2.8 4.2





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.427 min Scan# 1945
Delta R.T. -0.018 min
Lab File: BM049826.D
Acq: 04 Apr 2025 16:40

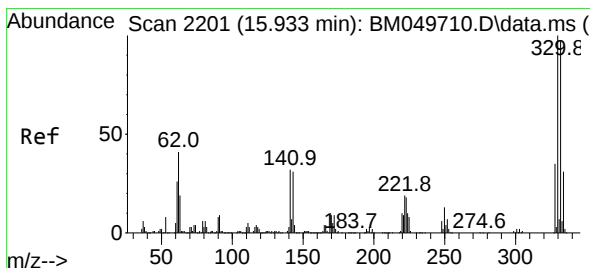
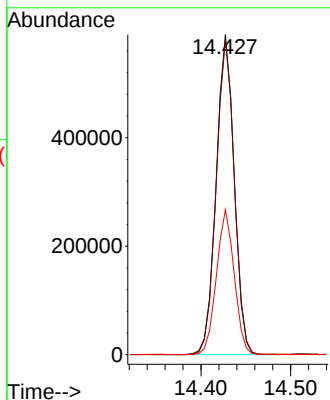
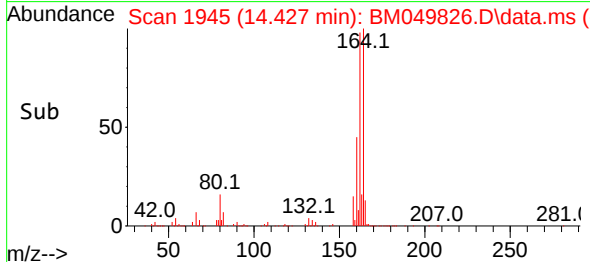
Instrument :
BNA_M
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Z-05A



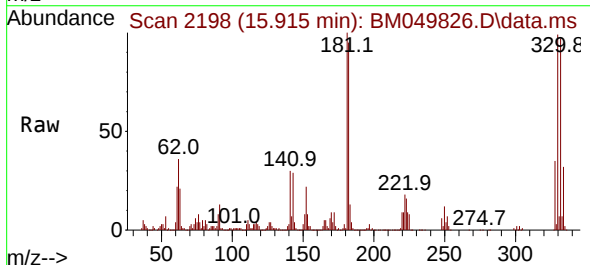
Tgt Ion:164 Resp: 82460
Ion Ratio Lower Upper
164 100
162 98.3 80.5 120.7
160 45.3 36.9 55.3

Manual Integrations
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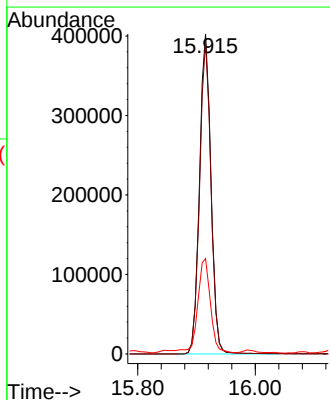
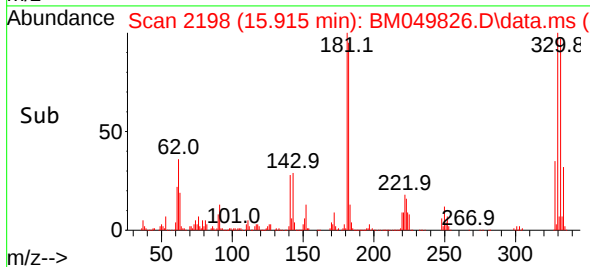
Reviewed By :Anahy Claudio 04/07/2025
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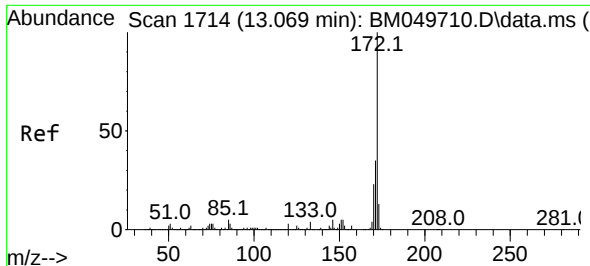


#42
2,4,6-Tribromophenol
Concen: 56.695 ng
RT: 15.915 min Scan# 2198
Delta R.T. -0.018 min
Lab File: BM049826.D
Acq: 04 Apr 2025 16:40



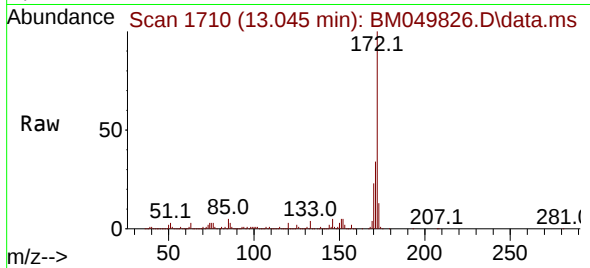
Tgt Ion:330 Resp: 545905
Ion Ratio Lower Upper
330 100
332 96.7 77.0 115.4
141 33.6 27.8 41.6





#45
2-Fluorobiphenyl
Concen: 25.721 ng
RT: 13.045 min Scan# 1710
Delta R.T. -0.024 min
Lab File: BM049826.D
Acq: 04 Apr 2025 16:40

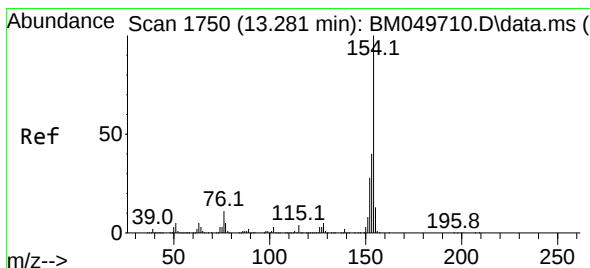
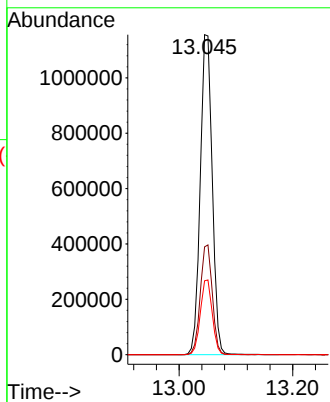
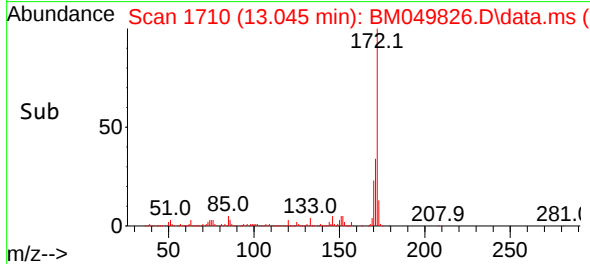
Instrument :
BNA_M
ClientSampleId :
Z-05A



Tgt Ion:172 Resp: 1693550
Ion Ratio Lower Upper
172 100
171 33.7 27.9 41.9
170 23.1 18.6 28.0

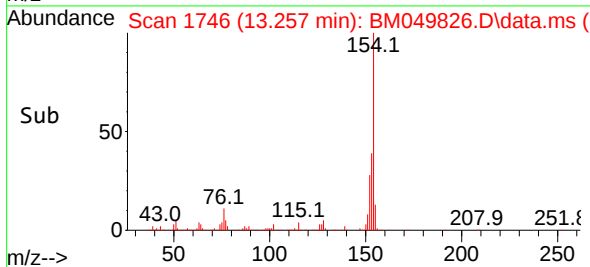
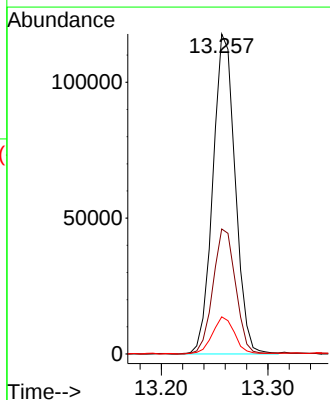
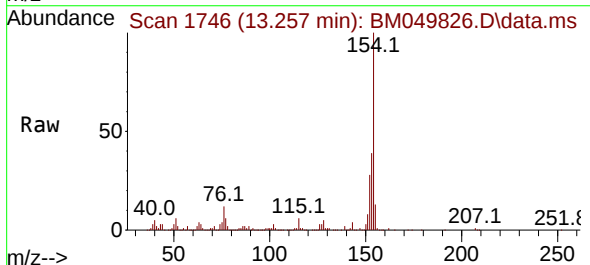
Manual Integrations
APPROVED

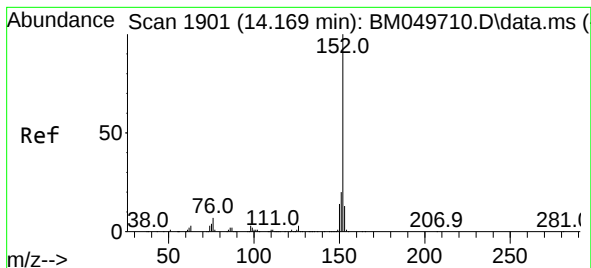
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025



#46
1,1'-Biphenyl
Concen: 2.696 ng
RT: 13.257 min Scan# 1746
Delta R.T. -0.024 min
Lab File: BM049826.D
Acq: 04 Apr 2025 16:40

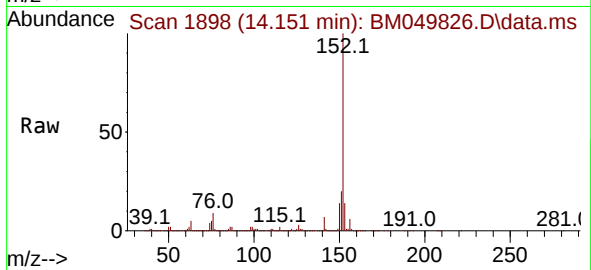
Tgt Ion:154 Resp: 171370
Ion Ratio Lower Upper
154 100
153 39.1 19.7 59.7
76 11.6 0.0 31.2





#49
Acenaphthylene
Concen: 25.600 ng
RT: 14.151 min Scan# 1898
Delta R.T. -0.018 min
Lab File: BM049826.D
Acq: 04 Apr 2025 16:40

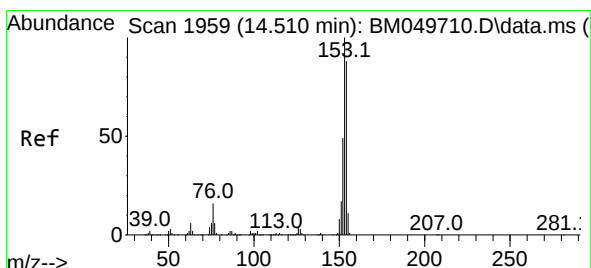
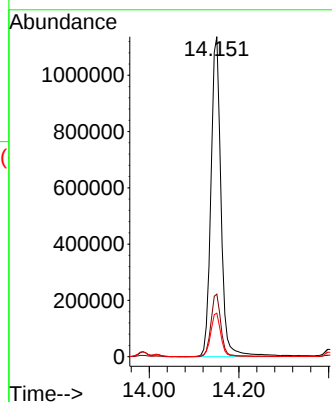
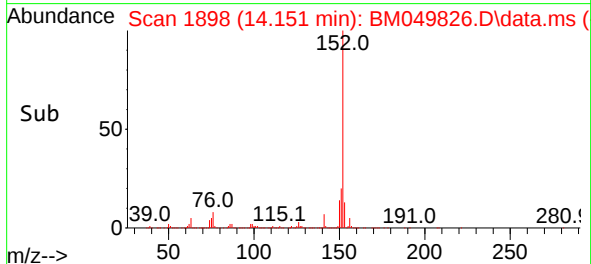
Instrument :
BNA_M
ClientSampleId :
Z-05A



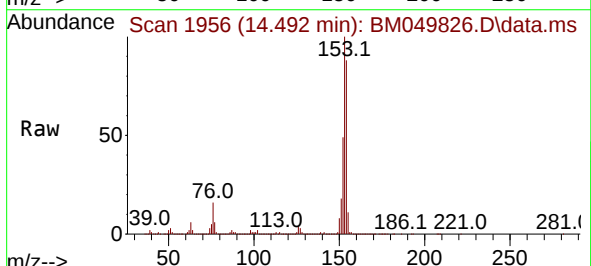
Tgt Ion:152 Resp: 1770124
Ion Ratio Lower Upper
152 100
151 19.6 15.8 23.8
153 13.6 10.2 15.4

Manual Integrations
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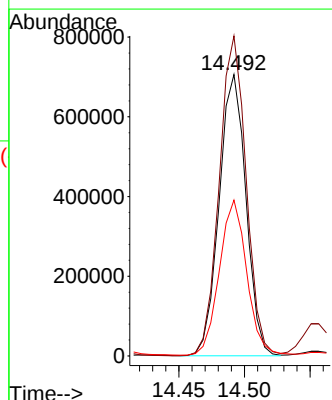
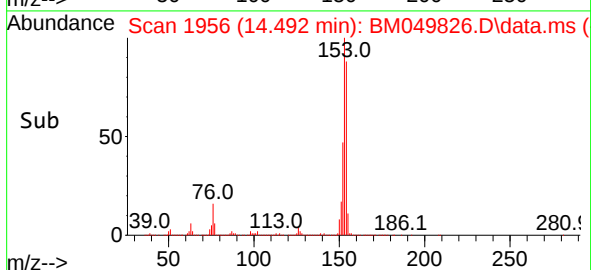
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

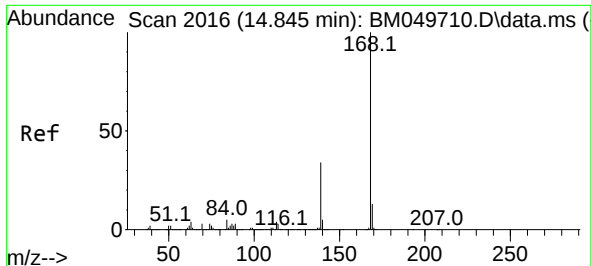


#52
Acenaphthene
Concen: 22.135 ng
RT: 14.492 min Scan# 1956
Delta R.T. -0.018 min
Lab File: BM049826.D
Acq: 04 Apr 2025 16:40



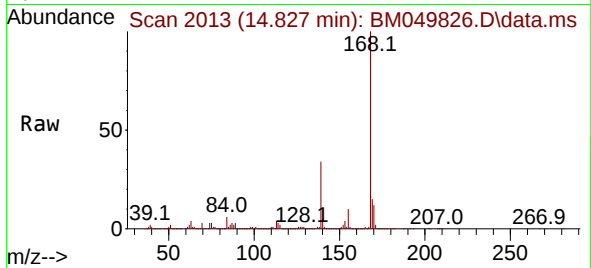
Tgt Ion:154 Resp: 1003936
Ion Ratio Lower Upper
154 100
153 113.7 90.4 135.6
152 55.4 44.2 66.2





#55
Dibenzenofuran
Concen: 19.733 ng
RT: 14.827 min Scan# 2016
Delta R.T. -0.018 min
Lab File: BM049826.D
Acq: 04 Apr 2025 16:40

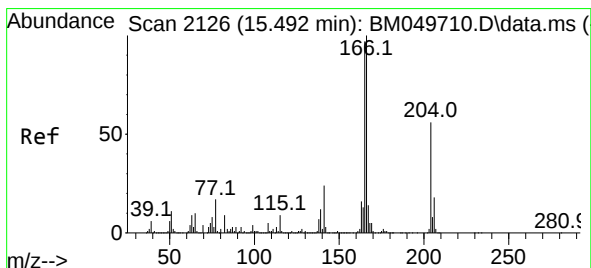
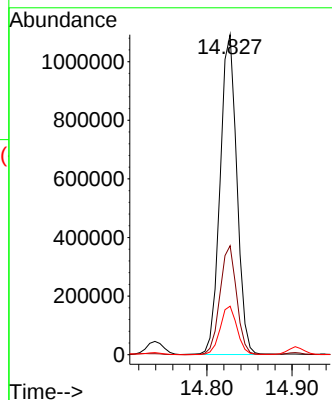
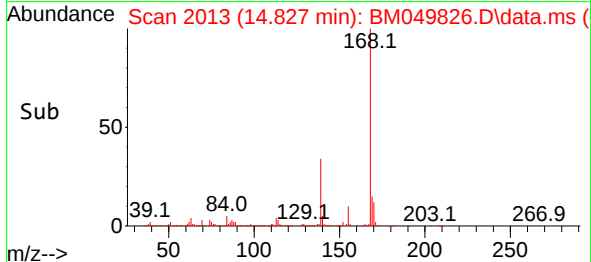
Instrument :
BNA_M
ClientSampleId :
Z-05A



Tgt Ion:168 Resp: 149133
Ion Ratio Lower Upper
168 100
139 34.0 27.4 41.0
169 15.2 10.7 16.1

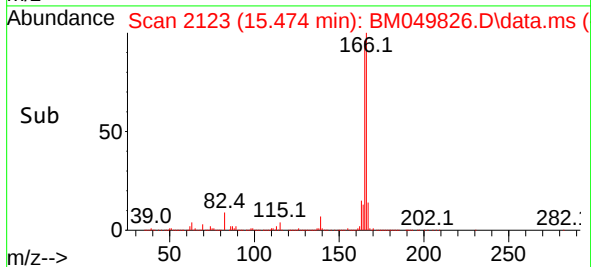
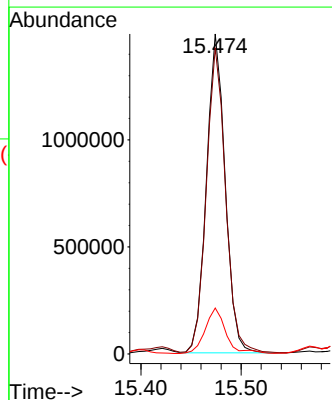
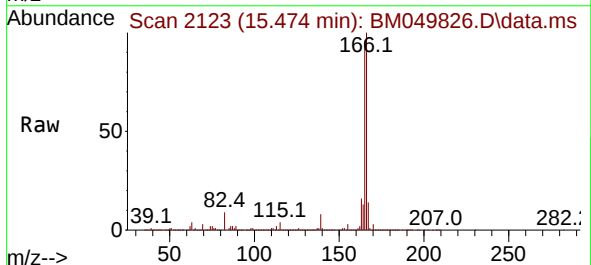
Manual Integrations
APPROVED

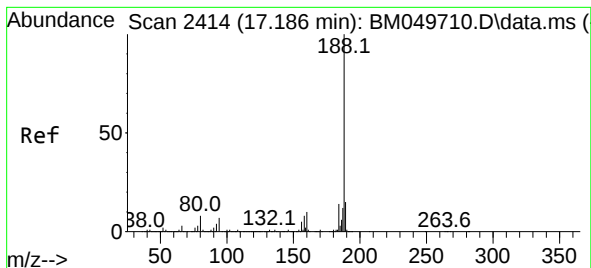
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025



#58
Fluorene
Concen: 31.610 ng
RT: 15.474 min Scan# 2123
Delta R.T. -0.018 min
Lab File: BM049826.D
Acq: 04 Apr 2025 16:40

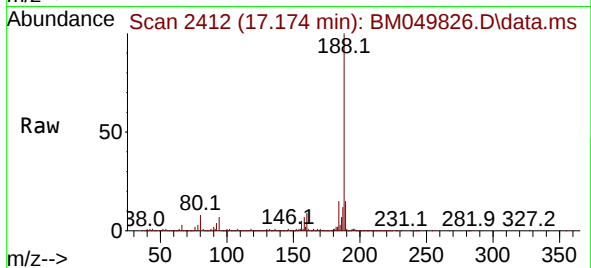
Tgt Ion:166 Resp: 1945000
Ion Ratio Lower Upper
166 100
165 95.7 77.5 116.3
167 14.4 10.9 16.3





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.174 min Scan# 2412
Delta R.T. -0.012 min
Lab File: BM049826.D
Acq: 04 Apr 2025 16:40

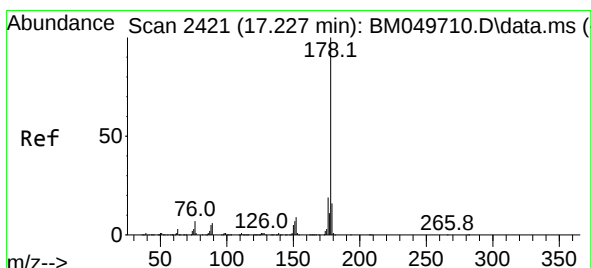
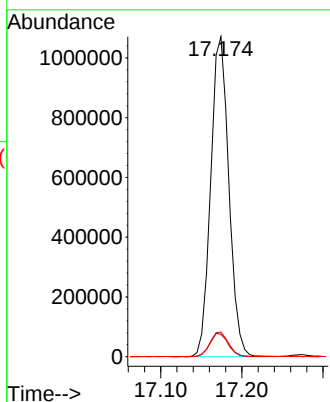
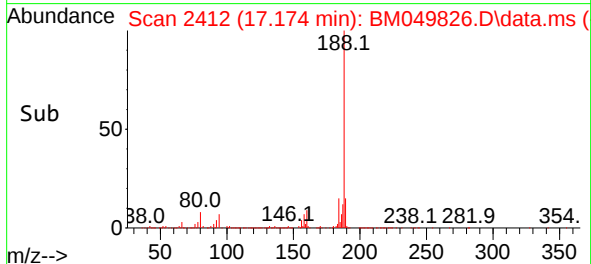
Instrument :
BNA_M
ClientSampleId :
Z-05A



Tgt Ion:188 Resp: 1658092
Ion Ratio Lower Upper
188 100
94 7.0 5.8 8.6
80 7.7 6.3 9.5

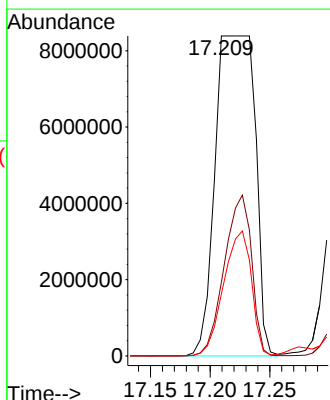
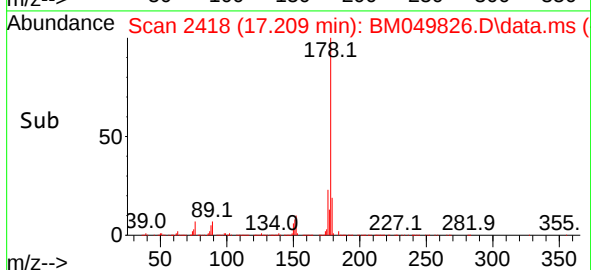
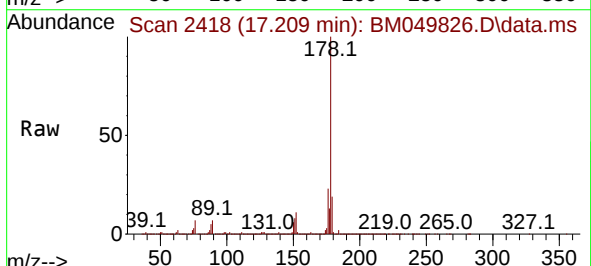
Manual Integrations
APPROVED

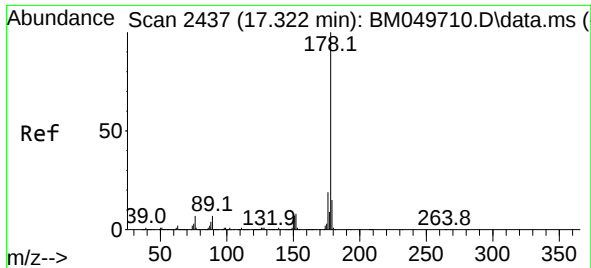
Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025



#71
Phenanthrene
Concen: 211.799 ng m
RT: 17.209 min Scan# 2418
Delta R.T. -0.018 min
Lab File: BM049826.D
Acq: 04 Apr 2025 16:40

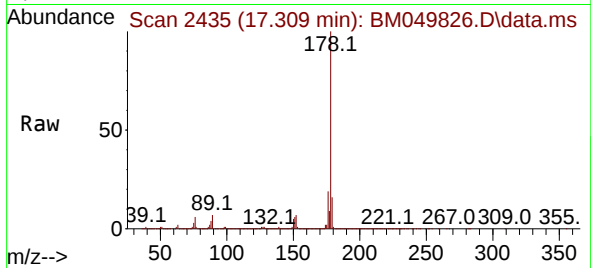
Tgt Ion:178 Resp:19500249
Ion Ratio Lower Upper
178 100
176 23.0 15.5 23.3
179 19.4 12.5 18.7#





#72
 Anthracene
 Concen: 80.820 ng
 RT: 17.309 min Scan# 2435
 Delta R.T. -0.012 min
 Lab File: BM049826.D
 Acq: 04 Apr 2025 16:40

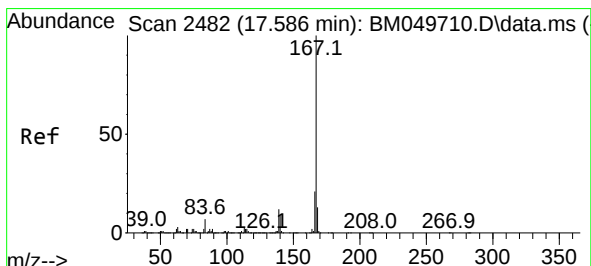
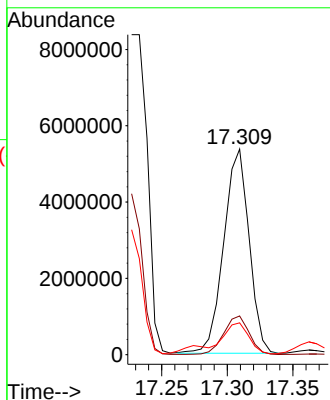
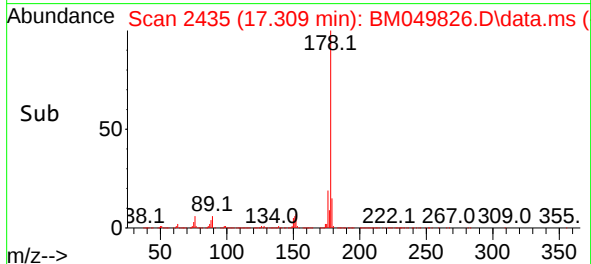
Instrument :
 BNA_M
 ClientSampleId :
 Z-05A



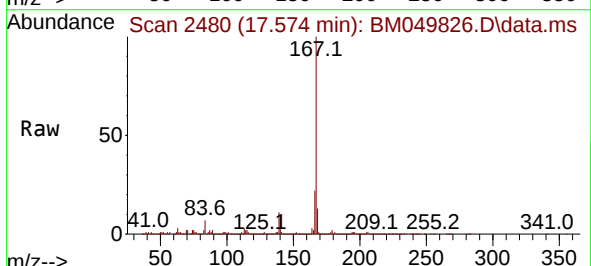
Tgt Ion:178 Resp: 720632
 Ion Ratio Lower Upper
 178 100
 176 18.8 15.1 22.7
 179 15.5 12.4 18.6

Manual Integrations
 APPROVED

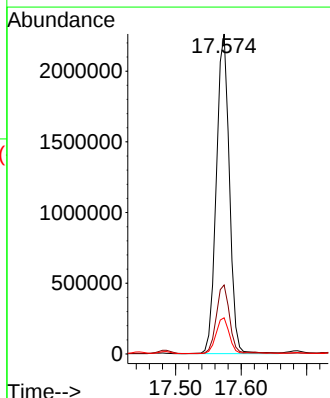
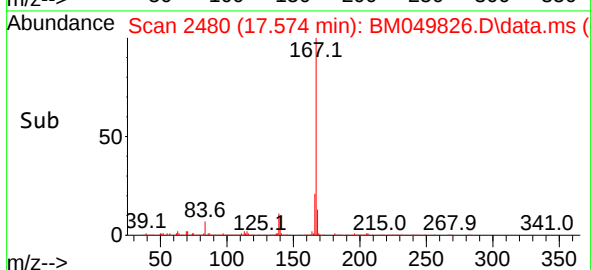
Reviewed By :Anahy Claudio 04/07/2025
 Supervised By :Jagrut Upadhyay 04/07/2025

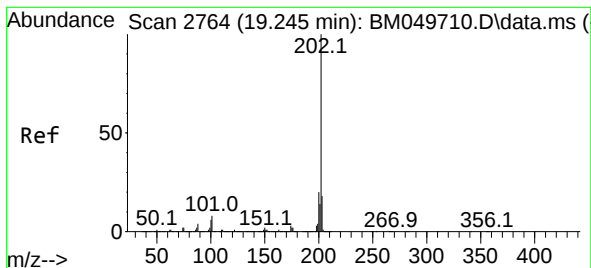


#73
 Carbazole
 Concen: 38.316 ng
 RT: 17.574 min Scan# 2480
 Delta R.T. -0.012 min
 Lab File: BM049826.D
 Acq: 04 Apr 2025 16:40



Tgt Ion:167 Resp: 3094068
 Ion Ratio Lower Upper
 167 100
 166 21.5 17.0 25.6
 139 11.3 9.4 14.2





#75

Fluoranthene

Concen: 200.943 ng m

RT: 19.227 min Scan# 21

Delta R.T. -0.018 min

Lab File: BM049826.D

Acq: 04 Apr 2025 16:40

Instrument :

BNA_M

ClientSampleId :

Z-05A

Tgt Ion:202 Resp:2129983

Ion Ratio Lower Upper

202 100

101 11.2 0.0 27.8

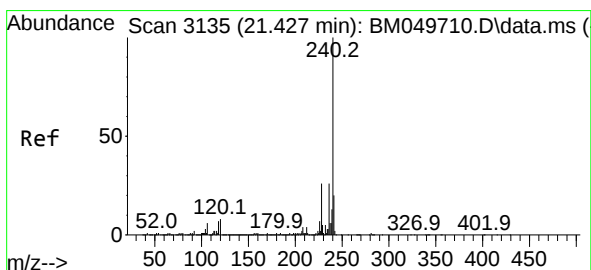
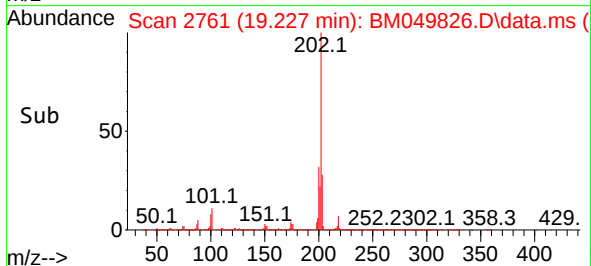
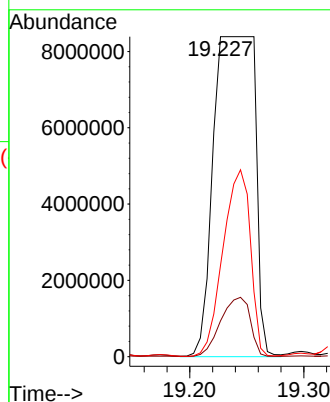
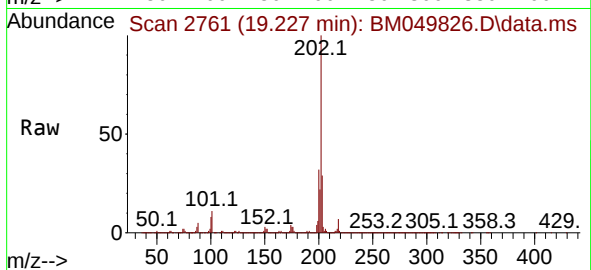
203 28.6 0.0 37.6

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 04/07/2025

Supervised By :Jagrut Upadhyay 04/07/2025



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.415 min Scan# 3133

Delta R.T. -0.012 min

Lab File: BM049826.D

Acq: 04 Apr 2025 16:40

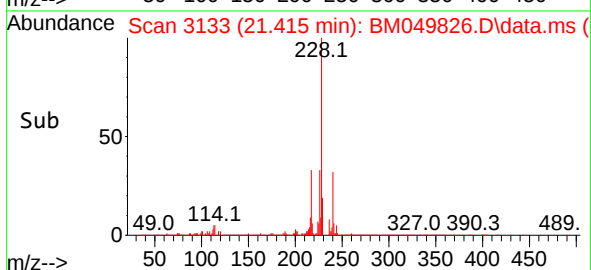
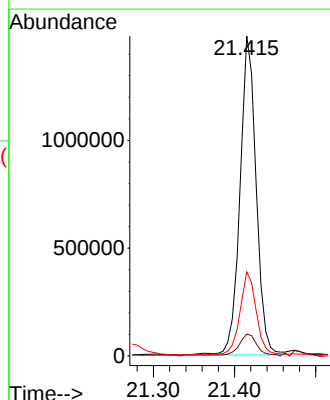
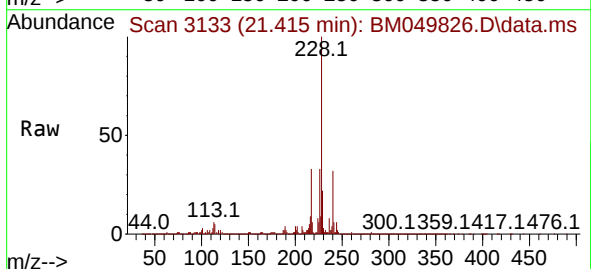
Tgt Ion:240 Resp: 2035250

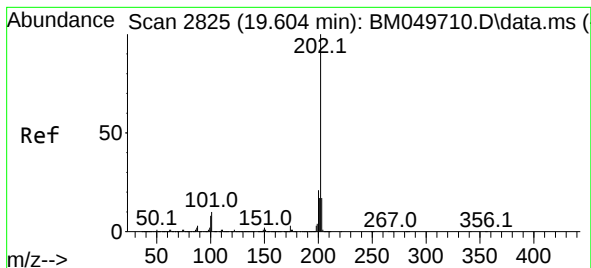
Ion Ratio Lower Upper

240 100

120 6.9 6.5 9.7

236 26.3 20.7 31.1





#78

Pyrene

Concen: 151.344 ng m

RT: 19.592 min Scan# 2

Delta R.T. -0.012 min

Lab File: BM049826.D

Acq: 04 Apr 2025 16:40

Instrument :

BNA_M

ClientSampleId :

Z-05A

Tgt Ion:202 Resp:2152023

Ion Ratio Lower Upper

202 100

200 37.1 17.0 25.4

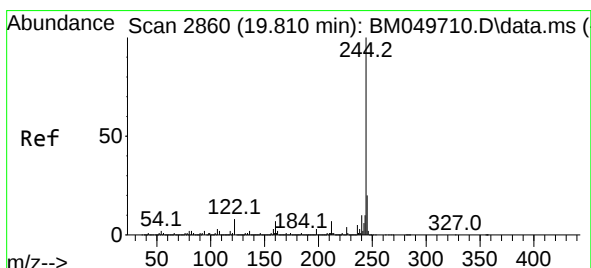
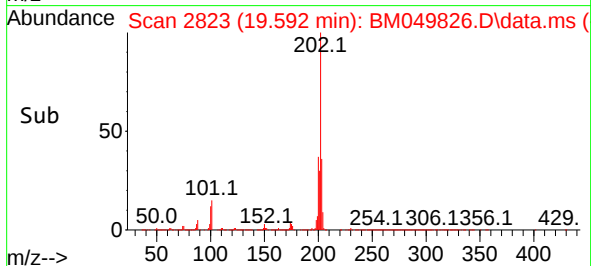
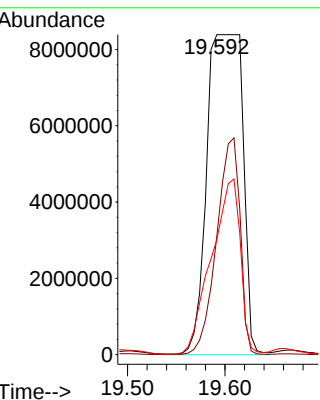
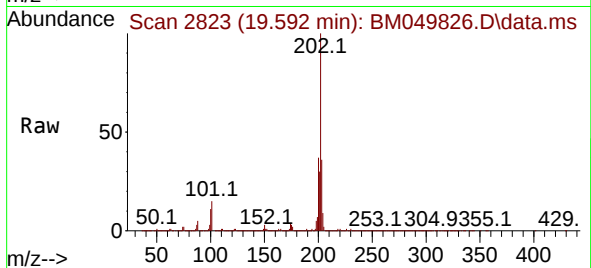
203 35.9 14.0 21.0

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 04/07/2025

Supervised By :Jagrut Upadhyay 04/07/2025



#79

Terphenyl-d14

Concen: 21.328 ng

RT: 19.792 min Scan# 2857

Delta R.T. -0.018 min

Lab File: BM049826.D

Acq: 04 Apr 2025 16:40

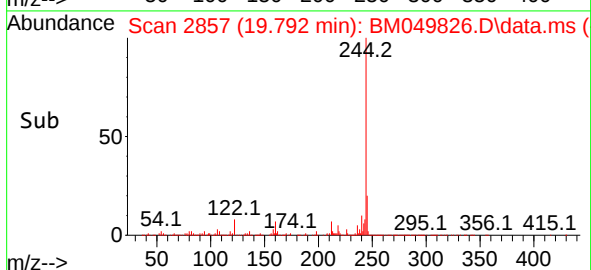
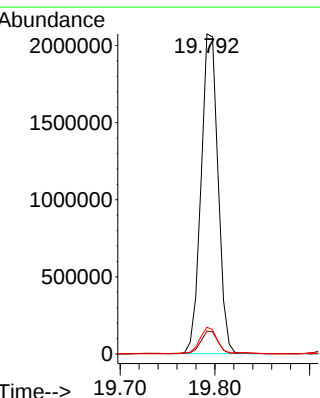
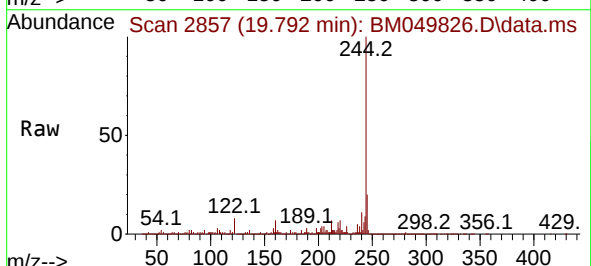
Tgt Ion:244 Resp: 2575926

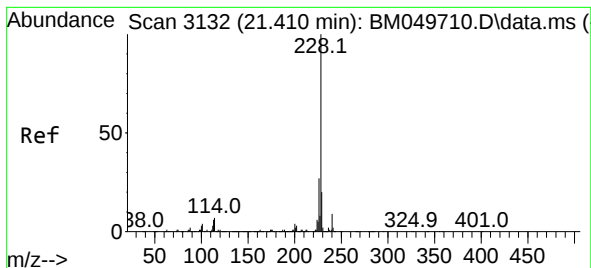
Ion Ratio Lower Upper

244 100

212 7.2 5.8 8.6

122 8.3 6.0 9.0





#81

Benzo(a)anthracene

Concen: 137.331 ng

RT: 21.391 min Scan# 31

Delta R.T. -0.018 min

Lab File: BM049826.D

Acq: 04 Apr 2025 16:40

Instrument :

BNA_M

ClientSampleId :

Z-05A

Tgt Ion:228 Resp:1866896

Ion Ratio Lower Upper

228 100

226 40.9 22.0 33.0

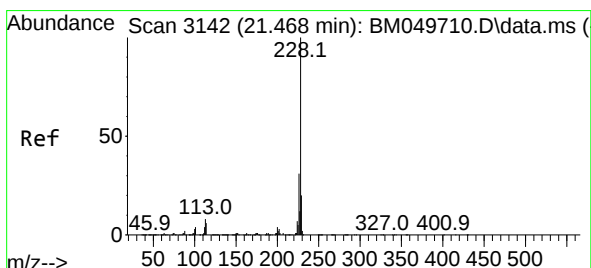
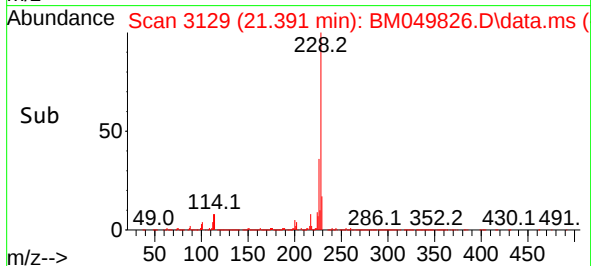
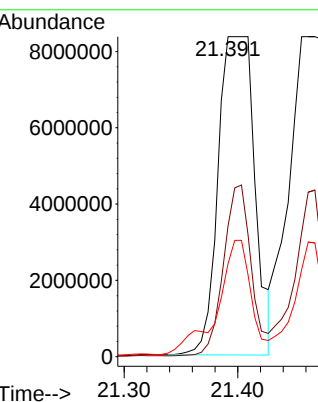
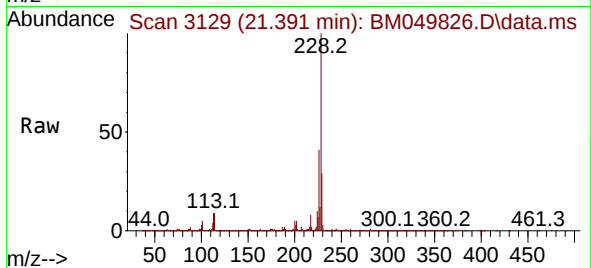
229 29.1 15.8 23.8

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 04/07/2025

Supervised By :Jagrut Upadhyay 04/07/2025



#83

Chrysene

Concen: 143.388 ng

RT: 21.456 min Scan# 3140

Delta R.T. -0.012 min

Lab File: BM049826.D

Acq: 04 Apr 2025 16:40

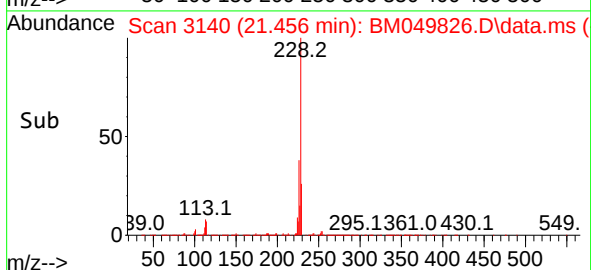
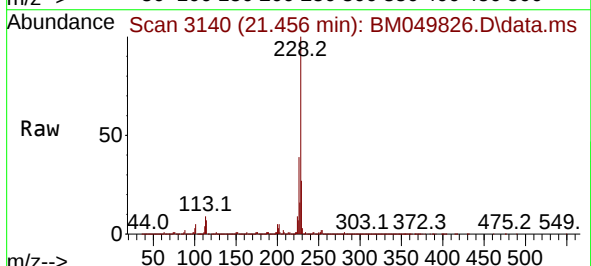
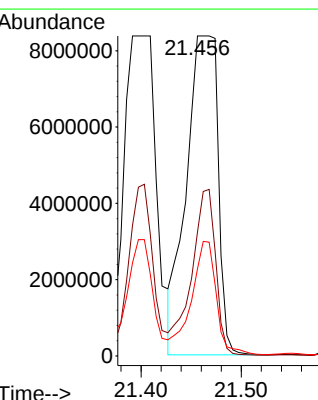
Tgt Ion:228 Resp:18477549

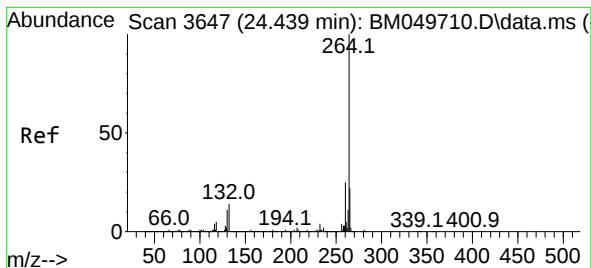
Ion Ratio Lower Upper

228 100

226 38.7 24.5 36.7#

229 27.2 15.8 23.6#





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.427 min Scan# 30

Delta R.T. -0.012 min

Lab File: BM049826.D

Acq: 04 Apr 2025 16:40

Instrument :

BNA_M

ClientSampleId :

Z-05A

Tgt Ion:264 Resp: 2022360

Ion Ratio Lower Upper

264 100

260 24.1 19.6 29.4

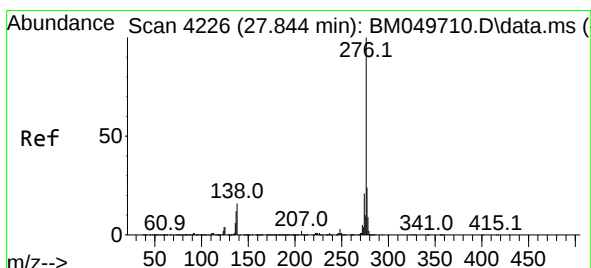
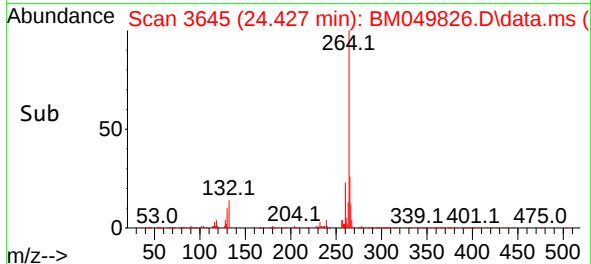
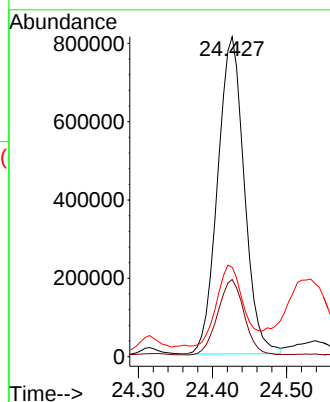
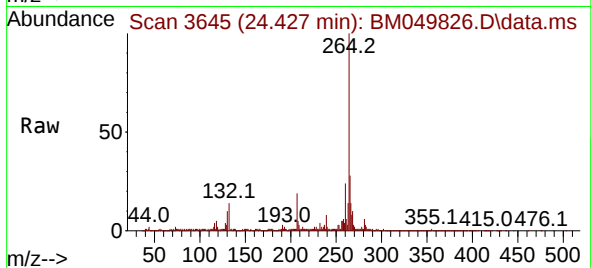
265 28.0 18.2 27.2

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 04/07/2025

Supervised By :Jagrut Upadhyay 04/07/2025



#87

Indeno(1,2,3-cd)pyrene

Concen: 81.570 ng

RT: 27.850 min Scan# 4227

Delta R.T. 0.005 min

Lab File: BM049826.D

Acq: 04 Apr 2025 16:40

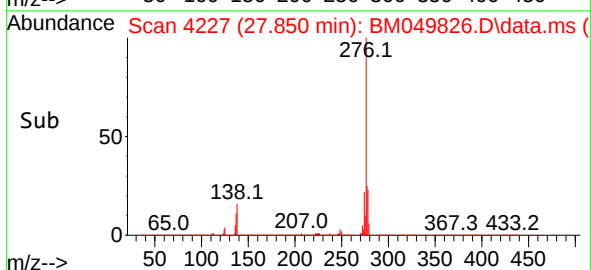
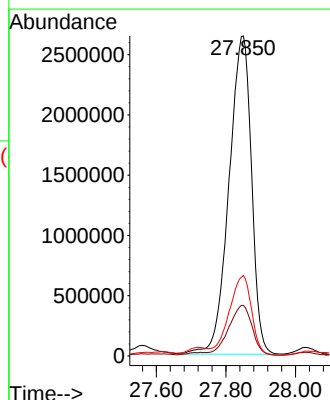
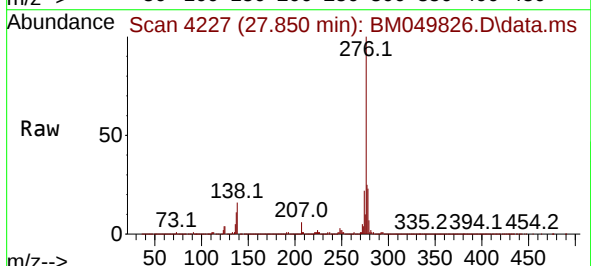
Tgt Ion:276 Resp:11873447

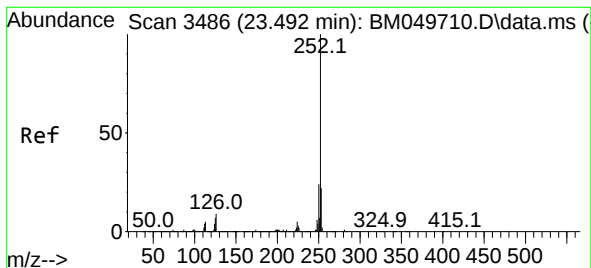
Ion Ratio Lower Upper

276 100

138 16.2 16.3 24.5

277 24.8 19.9 29.9





#88

Benzo(b)fluoranthene

Concen: 193.333 ng

RT: 23.491 min Scan# 3486

Delta R.T. -0.000 min

Lab File: BM049826.D

Acq: 04 Apr 2025 16:40

Instrument :

BNA_M

ClientSampleId :

Z-05A

Tgt Ion:252 Resp:2633448

Ion Ratio Lower Upper

252 100

253 23.5 17.4 26.0

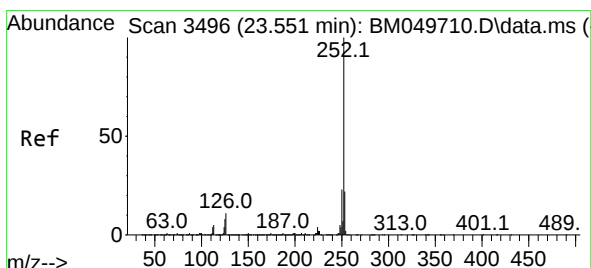
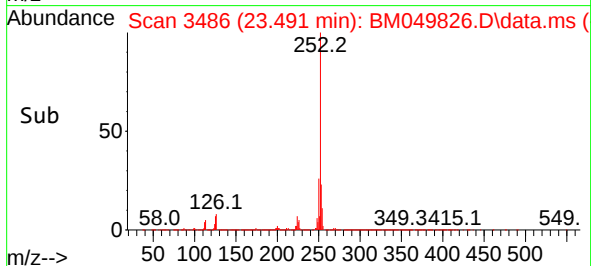
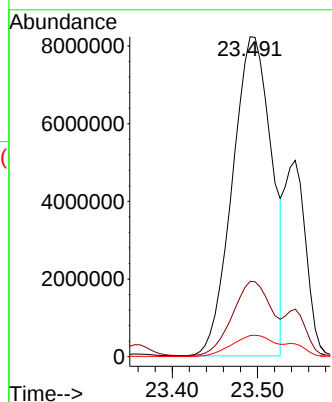
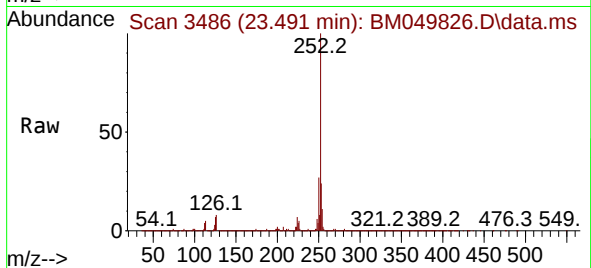
125 6.6 5.9 8.9

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 04/07/2025

Supervised By :Jagrut Upadhyay 04/07/2025



#89

Benzo(k)fluoranthene

Concen: 65.775 ng m

RT: 23.544 min Scan# 3495

Delta R.T. -0.006 min

Lab File: BM049826.D

Acq: 04 Apr 2025 16:40

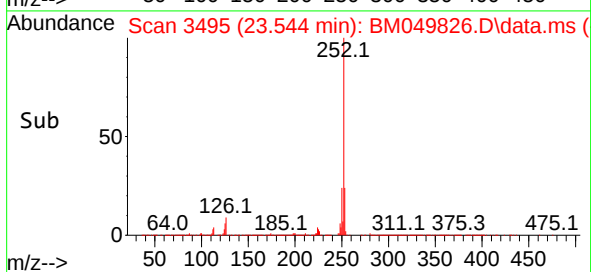
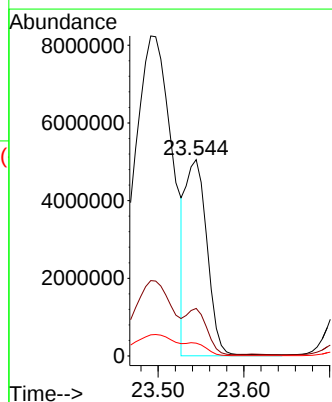
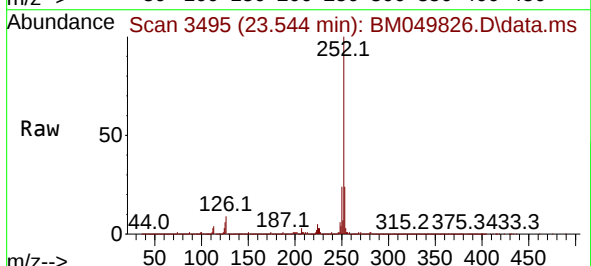
Tgt Ion:252 Resp: 8816014

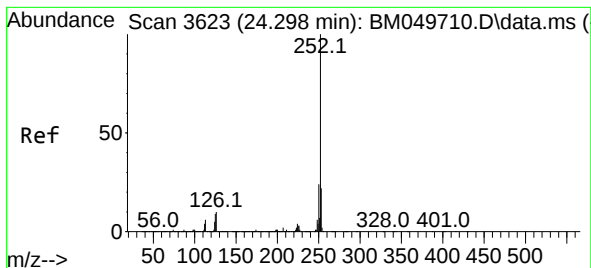
Ion Ratio Lower Upper

252 100

253 24.2 17.3 25.9

125 6.5 6.2 9.2





#90

Benzo(a)pyrene

Concen: 165.745 ng m

RT: 24.303 min Scan# 30

Delta R.T. 0.005 min

Lab File: BM049826.D

Acq: 04 Apr 2025 16:40

Instrument :

BNA_M

ClientSampleId :

Z-05A

Tgt Ion:252 Resp:1896361

Ion Ratio Lower Upper

252 100

253 24.0 17.2 25.8

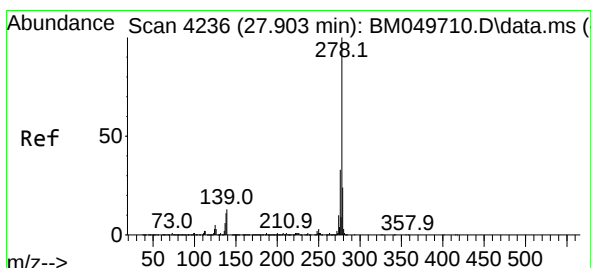
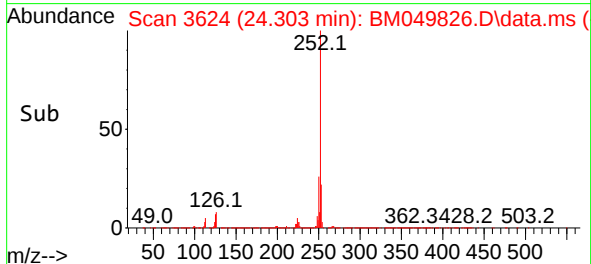
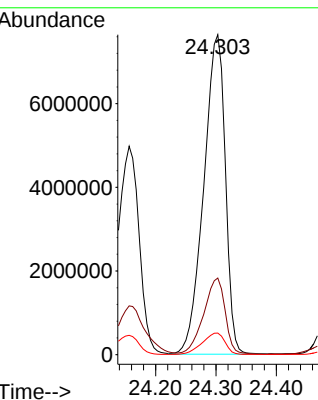
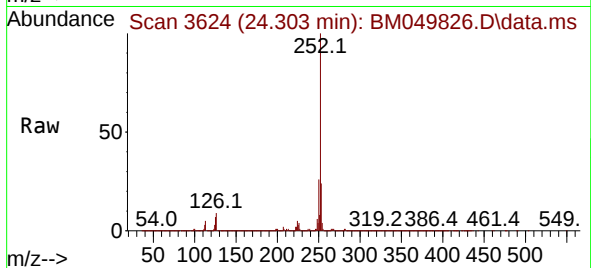
125 6.8 7.0 10.6

Manual Integrations

APPROVED

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Supervised By :Jagrut Upadhyay 04/07/2025



#91

Dibenzo(a,h)anthracene

Concen: 27.563 ng

RT: 27.873 min Scan# 4231

Delta R.T. -0.030 min

Lab File: BM049826.D

Acq: 04 Apr 2025 16:40

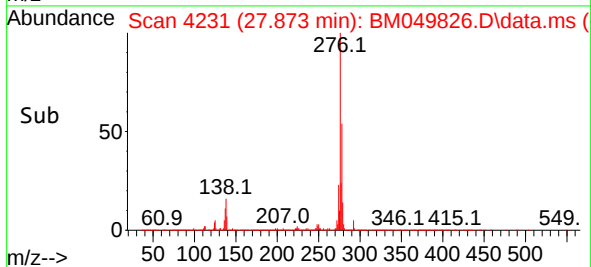
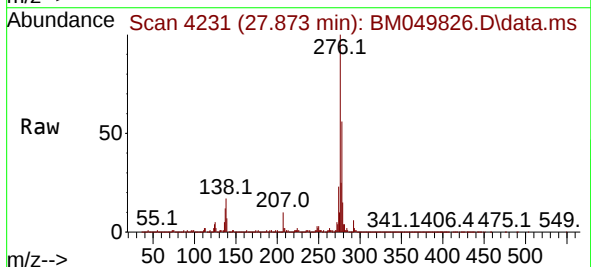
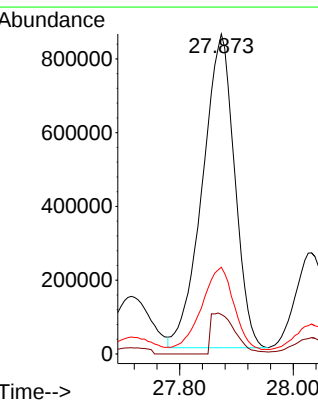
Tgt Ion:278 Resp: 3342649

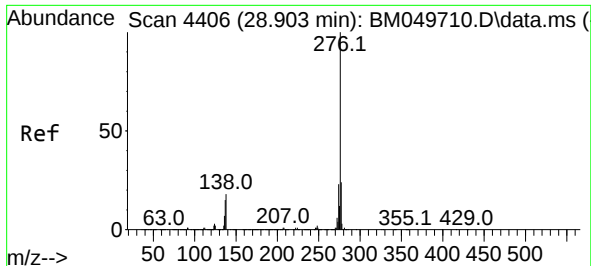
Ion Ratio Lower Upper

278 100

139 12.3 10.1 15.1

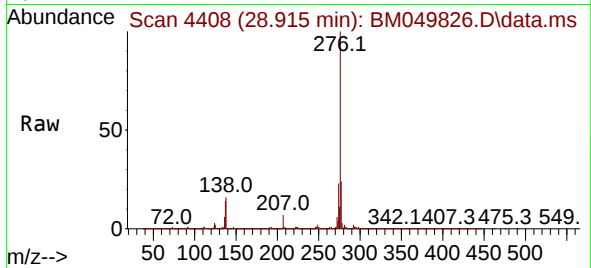
279 27.1 19.1 28.7





#92
Benzo(g,h,i)perylene
Concen: 88.887 ng
RT: 28.915 min Scan# 4408
Delta R.T. 0.011 min
Lab File: BM049826.D
Acq: 04 Apr 2025 16:40

Instrument :
BNA_M
ClientSampleId :
Z-05A



Tgt Ion: 276 Resp: 1085824
Ion Ratio Lower Upper
276 100
277 23.7 18.8 28.2
138 16.2 14.0 21.0

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 04/07/2025
Supervised By :Jagrut Upadhyay 04/07/2025

