

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041625\
 Data File : BM049954.D
 Acq On : 16 Apr 2025 16:05
 Operator : RC/JU
 Sample : Q1806-01DL 4X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 OR-03-041425DL

Manual Integrations
 APPROVED

Reviewed By :Rahul
 Chavli

Quant Time: Apr 16 16:45:50 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 09 04:00:55 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							04/17/2025
1) 1,4-Dichlorobenzene-d4	7.769	152	435300	20.000	ng	-0.01	Supervised By :Jagrut Upadhyay
21) Naphthalene-d8	10.563	136	1469118	20.000	ng	-0.01	
39) Acenaphthene-d10	14.410	164	897287	20.000	ng	-0.01	
64) Phenanthrene-d10	17.156	188	1665896	20.000	ng	0.00	
76) Chrysene-d12	21.397	240	1666327	20.000	ng	0.00	
86) Perylene-d12	24.403	264	1846834	20.000	ng	0.00	04/17/2025
System Monitoring Compounds							
5) 2-Fluorophenol	5.357	112	430145	16.780	ng	0.00	
7) Phenol-d6	6.951	99	531761	16.672	ng	0.00	
23) Nitrobenzene-d5	8.928	82	300433	11.388	ng	0.00	
42) 2,4,6-Tribromophenol	15.904	330	208473	15.973	ng	0.00	
45) 2-Fluorobiphenyl	13.033	172	717686	10.846	ng	-0.01	
79) Terphenyl-d14	19.780	244	831234	9.349	ng	-0.01	
Target Compounds							Qvalue
52) Acenaphthene	14.474	154	132517	2.728	ng		98
58) Fluorene	15.462	166	197696	3.063	ng		98
71) Phenanthrene	17.198	178	2427573	26.580	ng		100
72) Anthracene	17.292	178	640940	7.121	ng		99
73) Carbazole	17.562	167	240113	2.832	ng		99
75) Fluoranthene	19.215	202	4076708	36.303	ng		100
78) Pyrene	19.580	202	3436753	29.926	ng		99
81) Benzo(a)anthracene	21.380	228	1441132	13.013	ng		99
83) Chrysene	21.439	228	1284139	12.197	ng		98
87) Indeno(1,2,3-cd)pyrene	27.785	276	790733	5.744	ng		97
88) Benzo(b)fluoranthene	23.450	252	1537648	13.036	ng		99
89) Benzo(k)fluoranthene	23.509	252	590686m	5.168	ng		
90) Benzo(a)pyrene	24.256	252	1190865	11.490	ng		98
92) Benzo(g,h,i)perylene	28.838	276	789996	6.818	ng		100

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

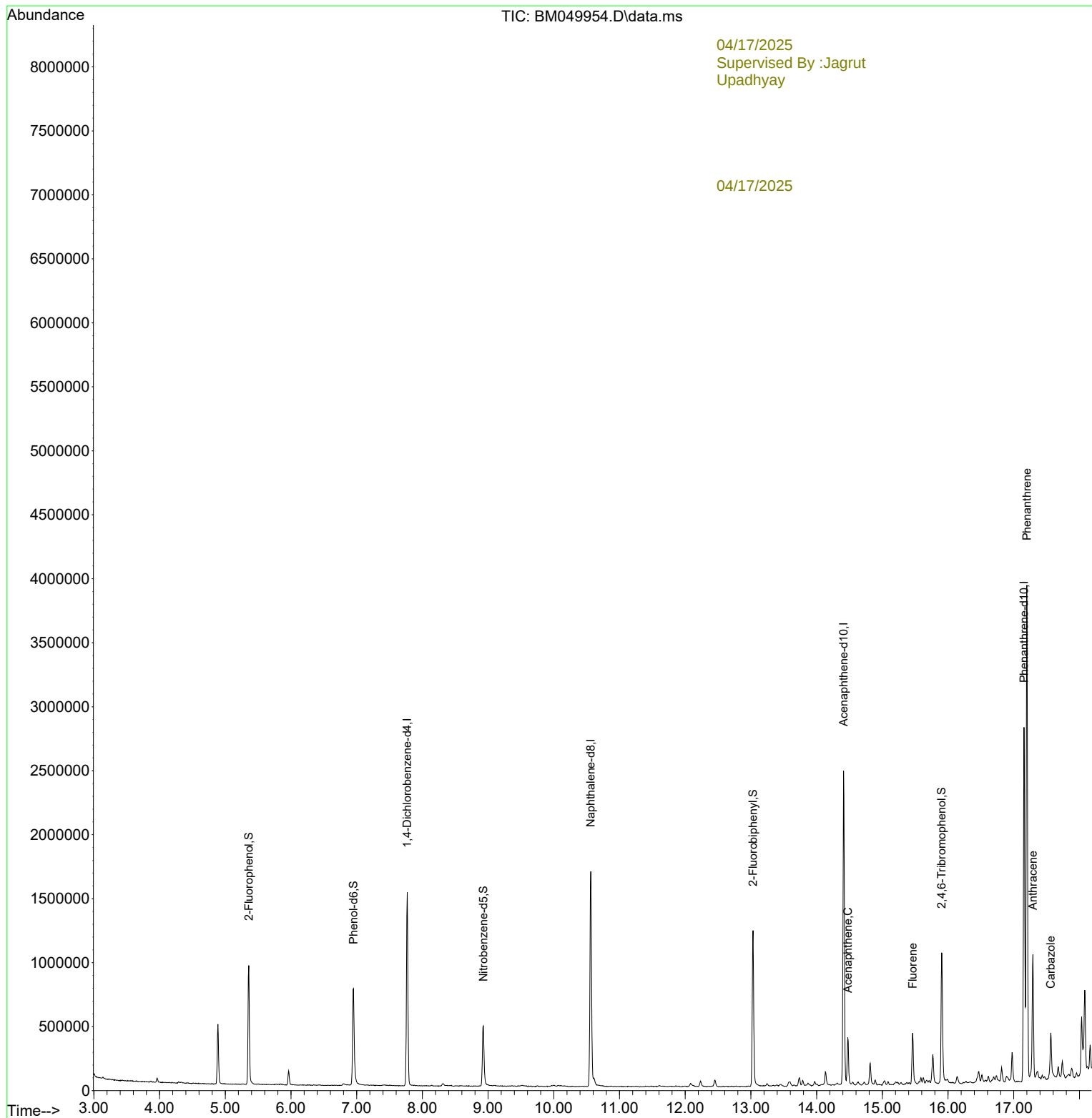
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041625\
Data File : BM049954.D
Acq On : 16 Apr 2025 16:05
Operator : RC/JU
Sample : Q1806-01DL 4X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
OR-03-041425DL

Quant Time: Apr 16 16:45:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Rahul
Chavli



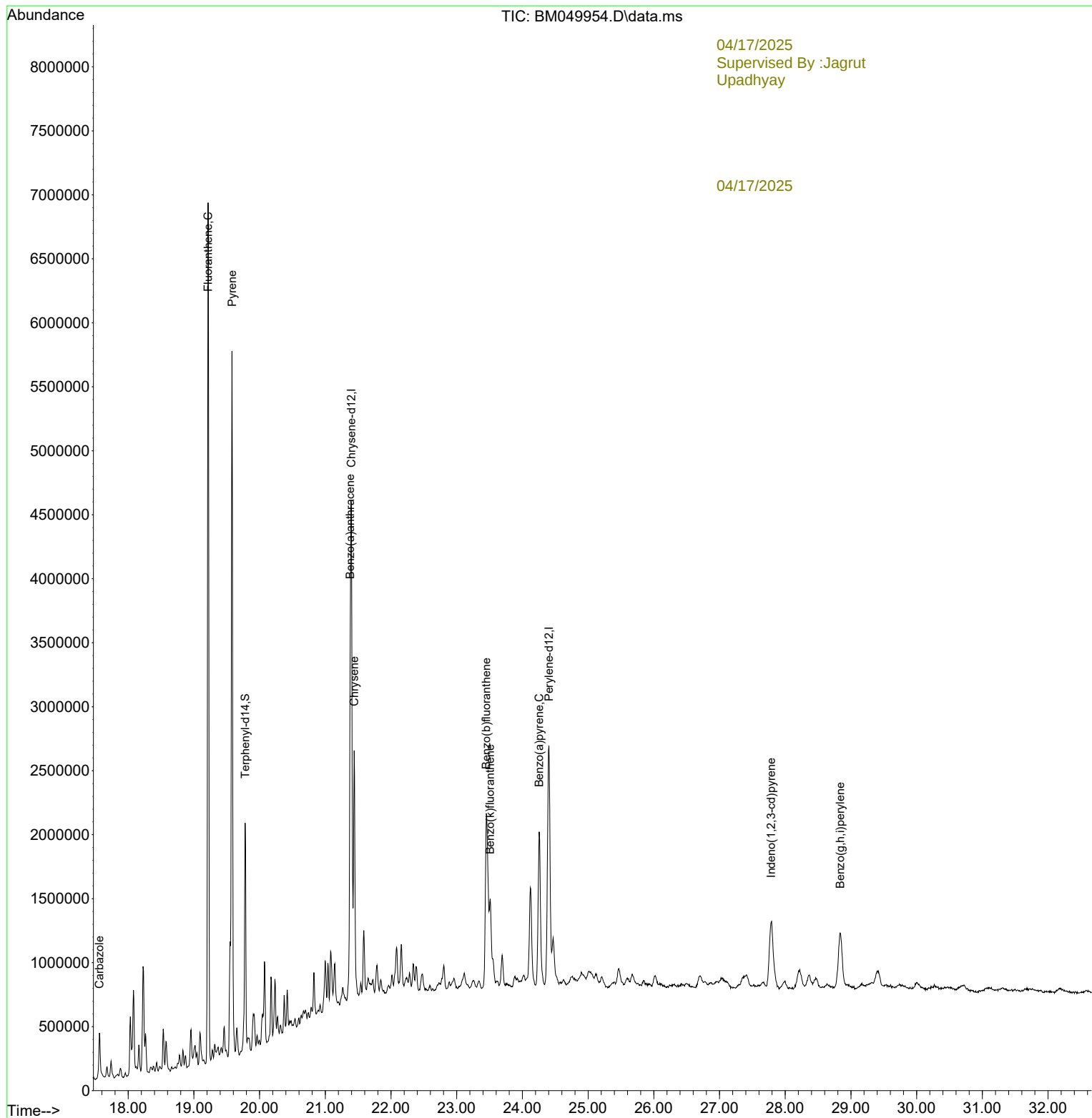
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041625\
Data File : BM049954.D
Acq On : 16 Apr 2025 16:05
Operator : RC/JU
Sample : Q1806-01DL 4X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
OR-03-041425DL

Manual Integrations
APPROVED

Reviewed By :Rahul
Chavli

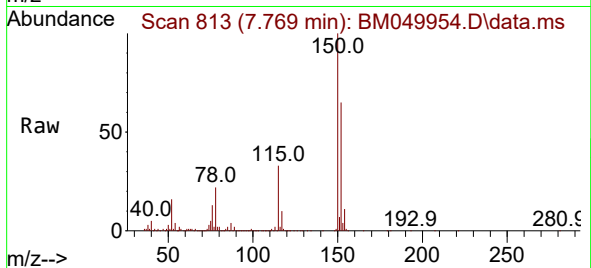
Quant Time: Apr 16 16:45:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.769 min Scan# 815
Delta R.T. -0.012 min
Lab File: BM049954.D
Acq: 16 Apr 2025 16:05

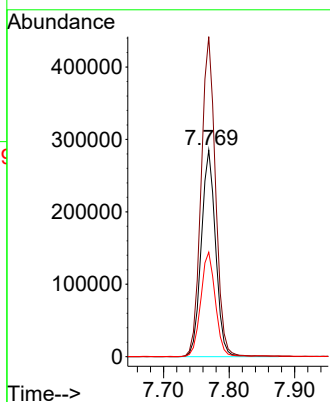
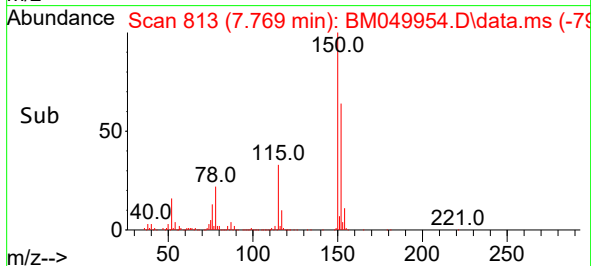
Instrument :
BNA_M
ClientSampleId :
OR-03-041425DL



Tgt Ion:152 Resp: 435300
Ion Ratio Lower Upper
152 100
150 154.9 124.3 186.5
115 50.5 41.1 61.7

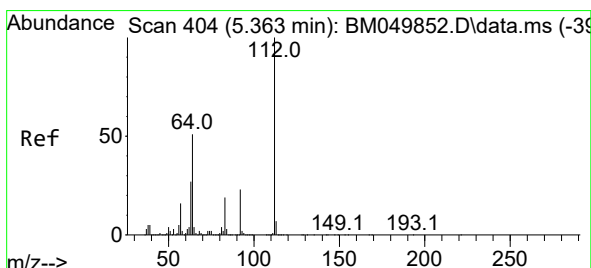
Manual Integrations
APPROVED

Reviewed By :Rahul
Chavli

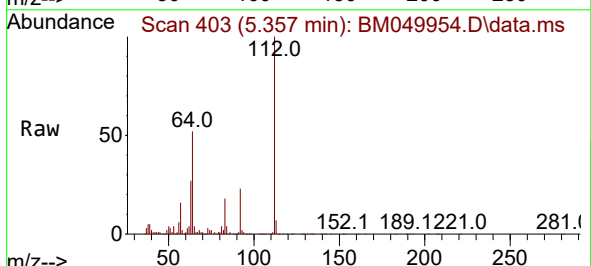


04/17/2025
Supervised By :Jagrut
Upadhyay

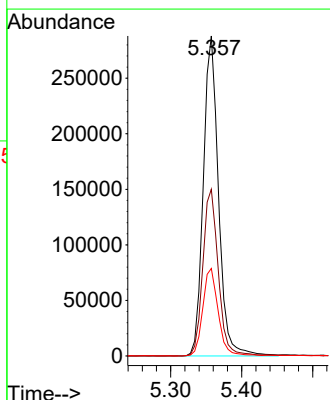
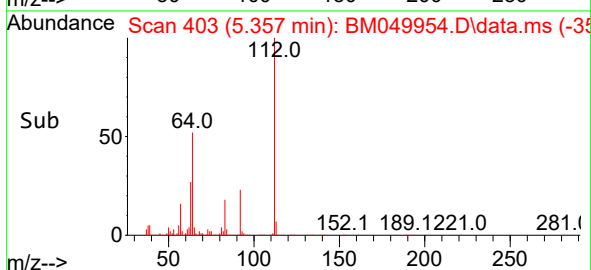
04/17/2025

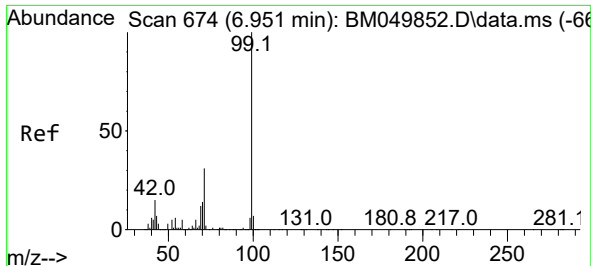


#5
2-Fluorophenol
Concen: 16.780 ng
RT: 5.357 min Scan# 403
Delta R.T. -0.006 min
Lab File: BM049954.D
Acq: 16 Apr 2025 16:05



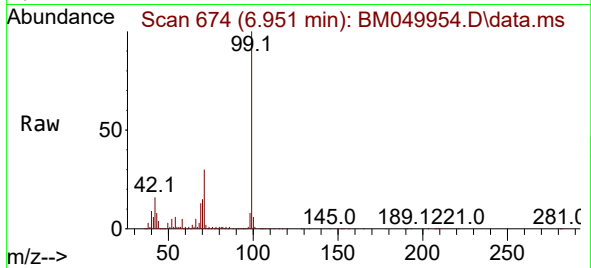
Tgt Ion:112 Resp: 430145
Ion Ratio Lower Upper
112 100
64 52.1 41.0 61.6
63 27.3 21.5 32.3





#7
Phenol-d6
Concen: 16.672 ng
RT: 6.951 min Scan# 61
Delta R.T. -0.000 min
Lab File: BM049954.D
Acq: 16 Apr 2025 16:05

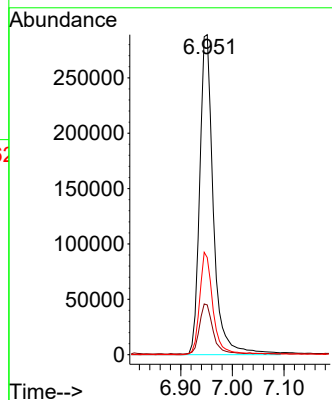
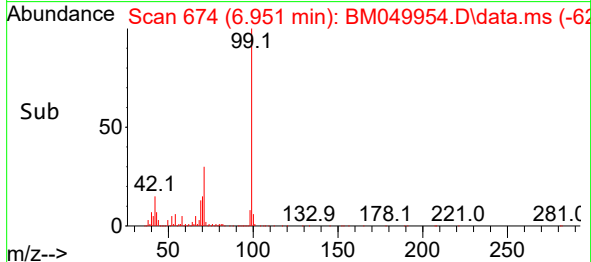
Instrument :
BNA_M
ClientSampleId :
OR-03-041425DL



Tgt Ion: 99 Resp: 53176
Ion Ratio Lower Upper
99 100
42 15.5 12.1 18.1
71 30.4 24.9 37.3

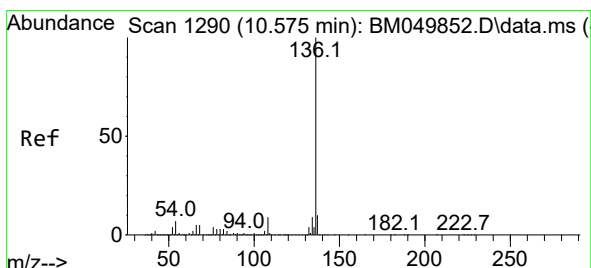
Manual Integrations
APPROVED

Reviewed By :Rahul
Chavli

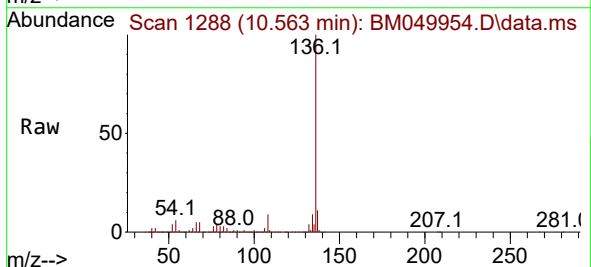


04/17/2025
Supervised By :Jagrut
Upadhyay

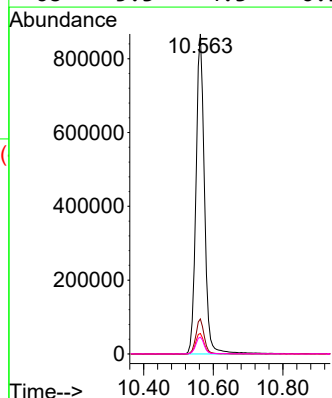
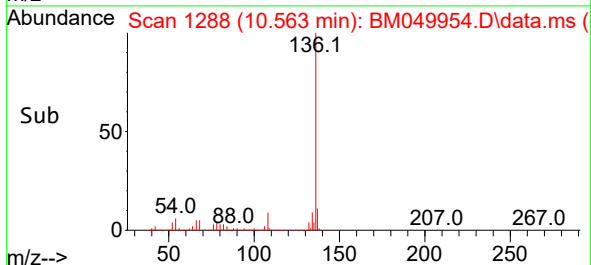
04/17/2025

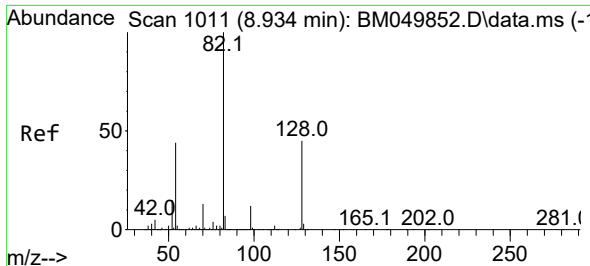


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.563 min Scan# 1288
Delta R.T. -0.012 min
Lab File: BM049954.D
Acq: 16 Apr 2025 16:05



Tgt Ion:136 Resp: 1469118
Ion Ratio Lower Upper
136 100
137 10.9 8.4 12.6
54 6.4 5.3 7.9
68 5.3 4.3 6.5





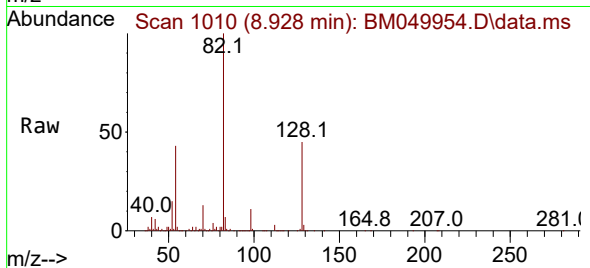
#23
Nitrobenzene-d5
Concen: 11.388 ng
RT: 8.928 min Scan# 1011
Delta R.T. -0.006 min
Lab File: BM049954.D
Acq: 16 Apr 2025 16:05

Instrument :

BNA_M

ClientSampleId :

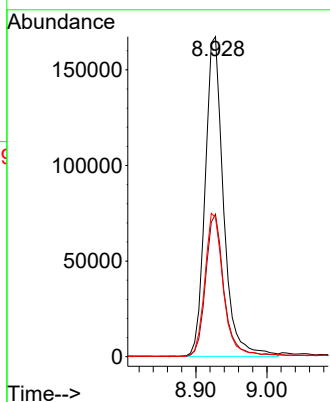
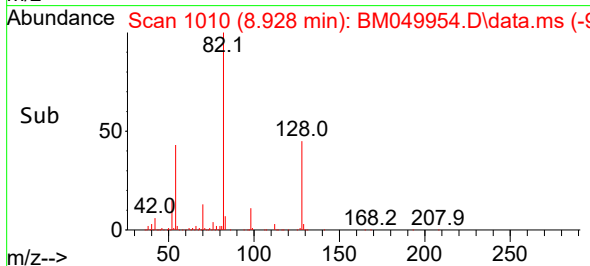
OR-03-041425DL



Tgt Ion: 82 Resp: 30043
Ion Ratio Lower Upper
82 100
128 44.6 36.2 54.2
54 43.5 35.0 52.6

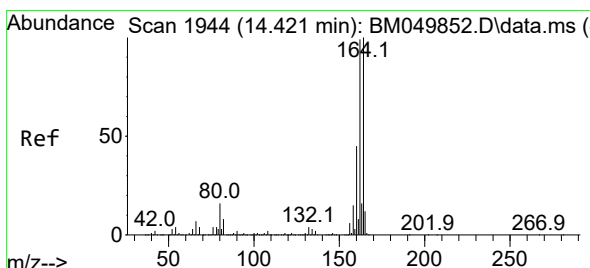
Manual Integrations
APPROVED

Reviewed By :Rahul
Chavli

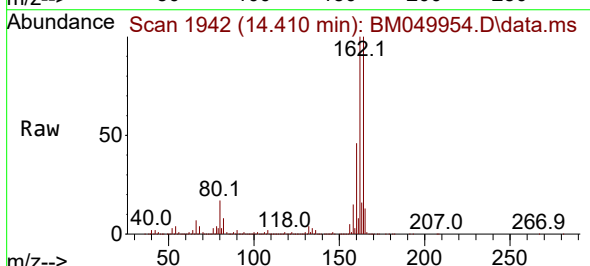


04/17/2025
Supervised By :Jagrut
Upadhyay

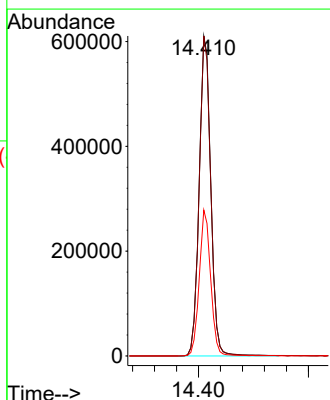
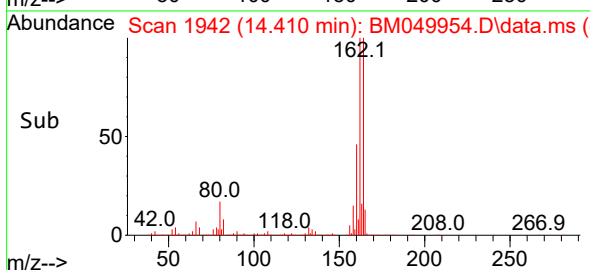
04/17/2025

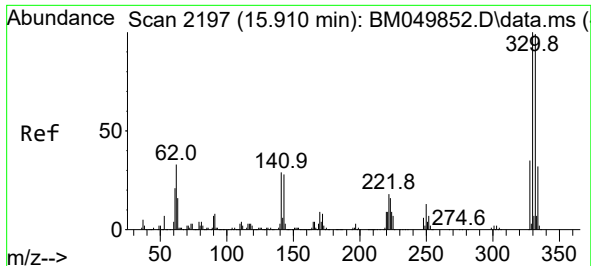


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.410 min Scan# 1942
Delta R.T. -0.012 min
Lab File: BM049954.D
Acq: 16 Apr 2025 16:05



Tgt Ion:164 Resp: 897287
Ion Ratio Lower Upper
164 100
162 100.1 79.4 119.0
160 45.6 36.2 54.2





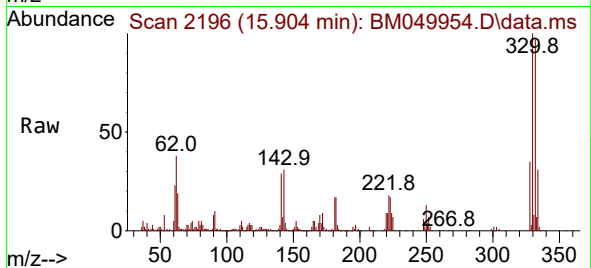
#42
2,4,6-Tribromophenol
Concen: 15.973 ng
RT: 15.904 min Scan# 2197
Delta R.T. -0.006 min
Lab File: BM049954.D
Acq: 16 Apr 2025 16:05

Instrument :

BNA_M

ClientSampleId :

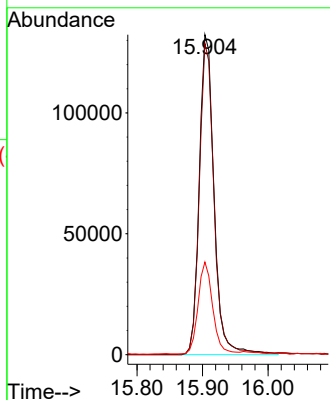
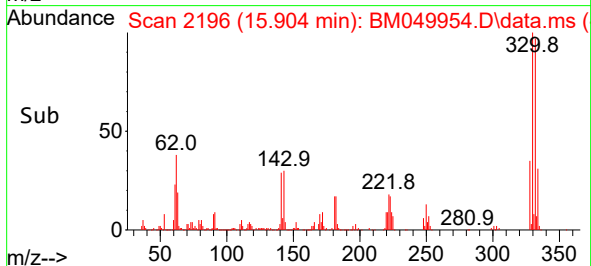
OR-03-041425DL



Tgt Ion:330 Resp: 20847
Ion Ratio Lower Upper
330 100
332 96.6 78.0 117.0
141 28.2 23.5 35.3

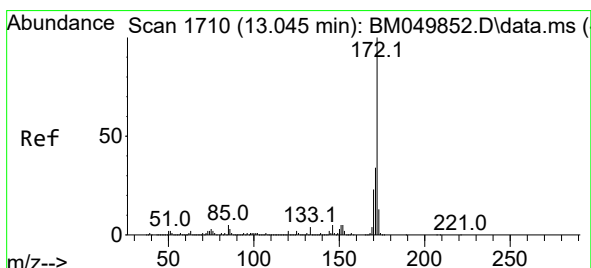
Manual Integrations
APPROVED

Reviewed By :Rahul
Chavli

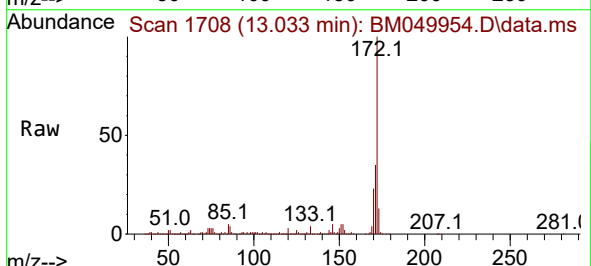


04/17/2025
Supervised By :Jagrut
Upadhyay

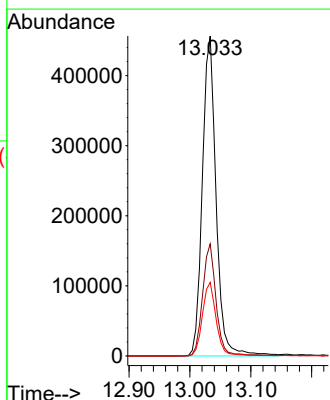
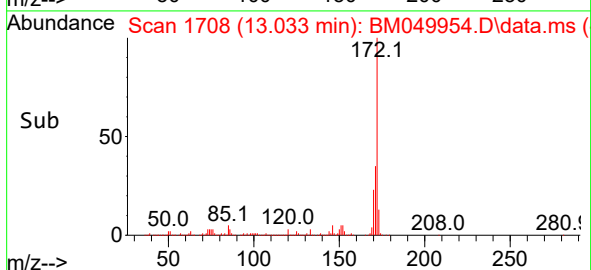
04/17/2025

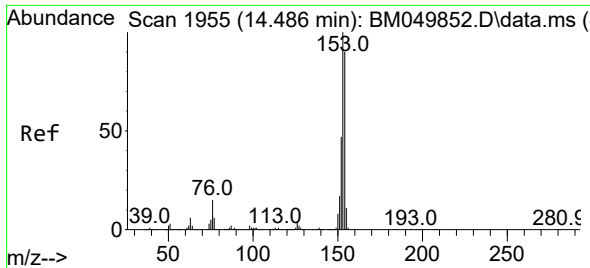


#45
2-Fluorobiphenyl
Concen: 10.846 ng
RT: 13.033 min Scan# 1708
Delta R.T. -0.012 min
Lab File: BM049954.D
Acq: 16 Apr 2025 16:05



Tgt Ion:172 Resp: 717686
Ion Ratio Lower Upper
172 100
171 35.1 27.4 41.2
170 23.0 18.6 28.0





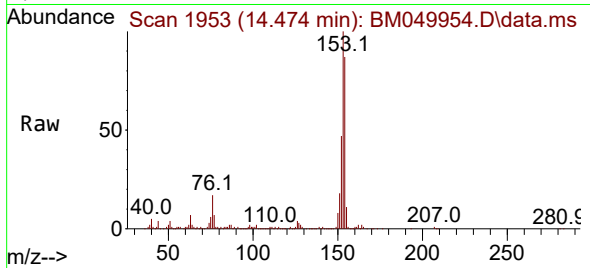
#52
Acenaphthene
Concen: 2.728 ng
RT: 14.474 min Scan# 1953
Delta R.T. -0.012 min
Lab File: BM049954.D
Acq: 16 Apr 2025 16:05

Instrument :

BNA_M

ClientSampleId :

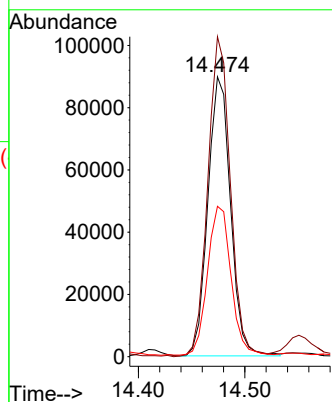
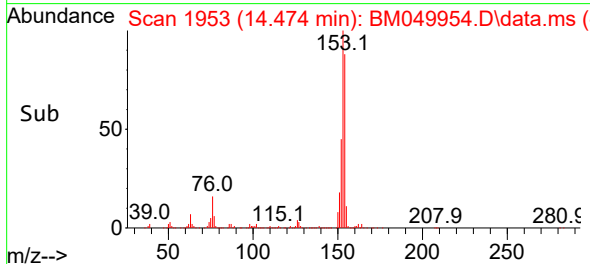
OR-03-041425DL



Tgt Ion:154 Resp: 13251
Ion Ratio Lower Upper
154 100
153 114.4 89.3 133.9
152 53.8 42.2 63.2

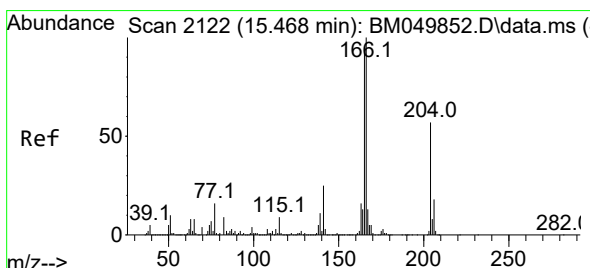
Manual Integrations
APPROVED

Reviewed By :Rahul
Chavli

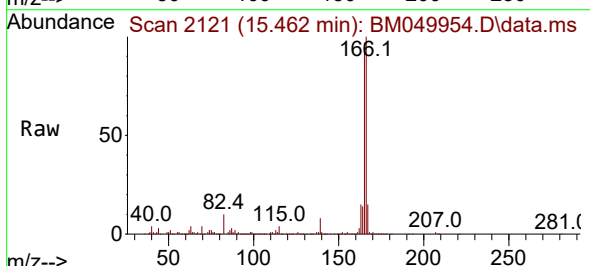


04/17/2025
Supervised By :Jagrut
Upadhyay

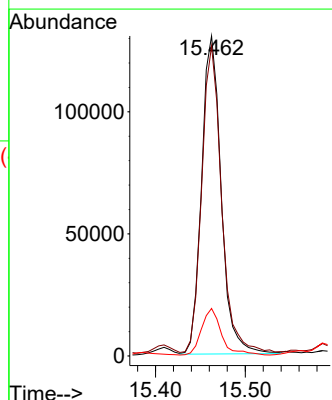
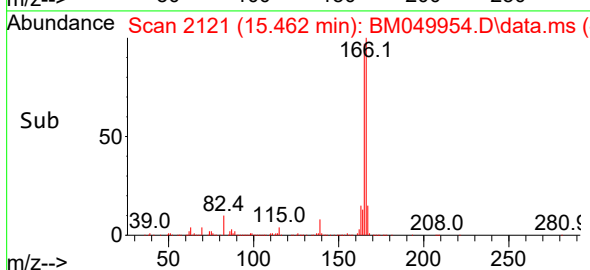
04/17/2025

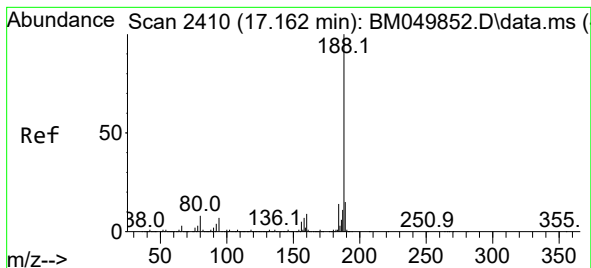


#58
Fluorene
Concen: 3.063 ng
RT: 15.462 min Scan# 2121
Delta R.T. -0.006 min
Lab File: BM049954.D
Acq: 16 Apr 2025 16:05



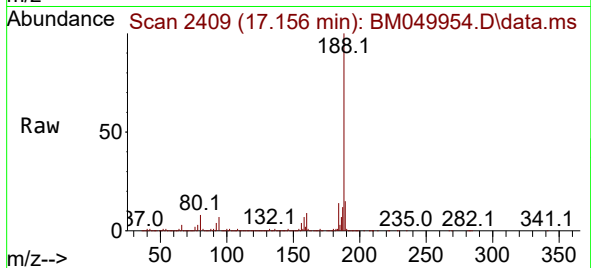
Tgt Ion:166 Resp: 197696
Ion Ratio Lower Upper
166 100
165 96.9 76.3 114.5
167 14.8 10.7 16.1





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.156 min Scan# 2410
Delta R.T. -0.006 min
Lab File: BM049954.D
Acq: 16 Apr 2025 16:05

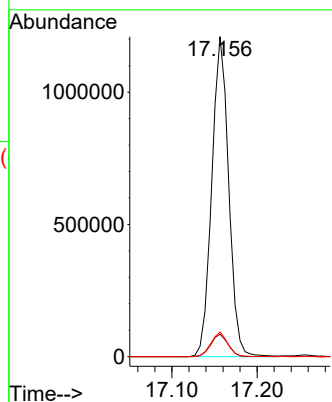
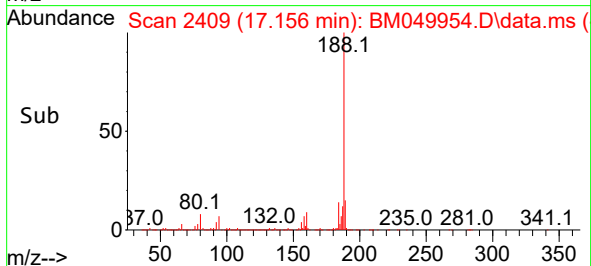
Instrument :
BNA_M
ClientSampleId :
OR-03-041425DL



Tgt Ion:188 Resp: 1665890
Ion Ratio Lower Upper
188 100
94 7.0 5.8 8.6
80 7.7 6.4 9.6

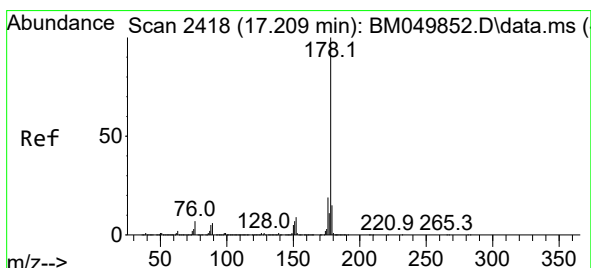
Manual Integrations
APPROVED

Reviewed By :Rahul
Chavli



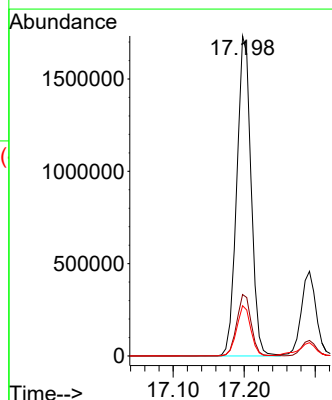
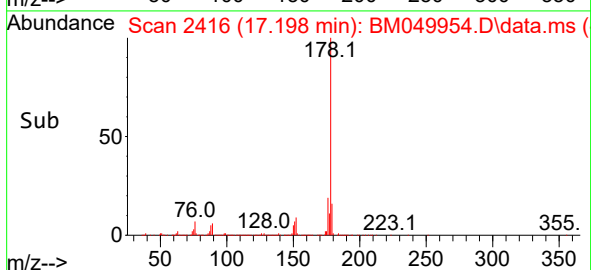
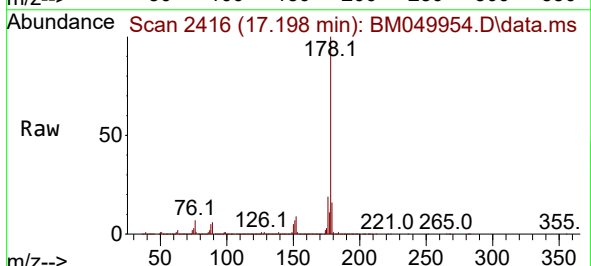
04/17/2025
Supervised By :Jagrut
Upadhyay

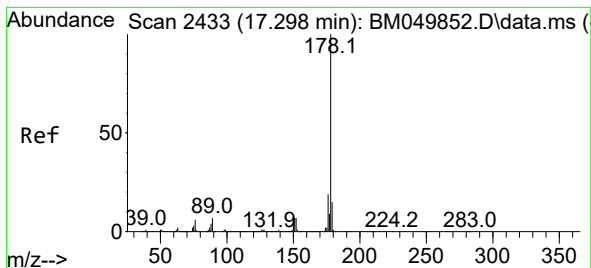
04/17/2025



#71
Phenanthrene
Concen: 26.580 ng
RT: 17.198 min Scan# 2416
Delta R.T. -0.012 min
Lab File: BM049954.D
Acq: 16 Apr 2025 16:05

Tgt Ion:178 Resp: 2427573
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.2
179 15.7 12.3 18.5





#72

Anthracene

Concen: 7.121 ng

RT: 17.292 min Scan# 2433

Delta R.T. -0.006 min

Lab File: BM049954.D

Acq: 16 Apr 2025 16:05

Instrument :

BNA_M

ClientSampleId :

OR-03-041425DL

Tgt Ion:178 Resp: 640940

Ion Ratio Lower Upper

178 100

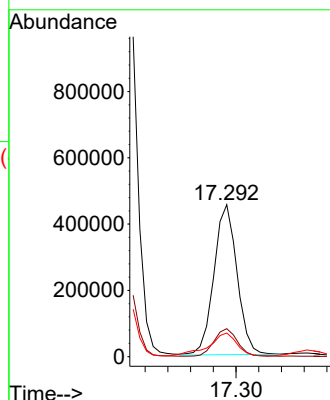
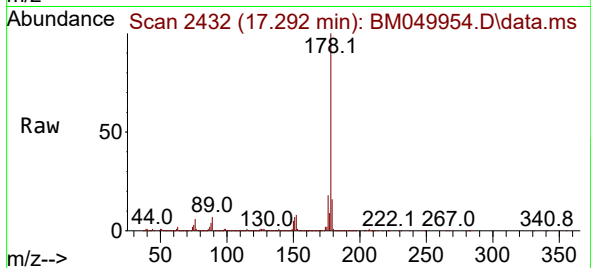
176 18.4 15.1 22.7

179 15.6 12.4 18.6

Manual Integrations

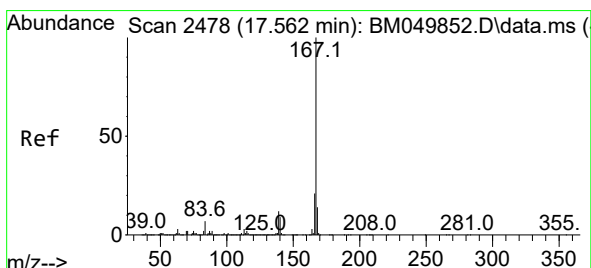
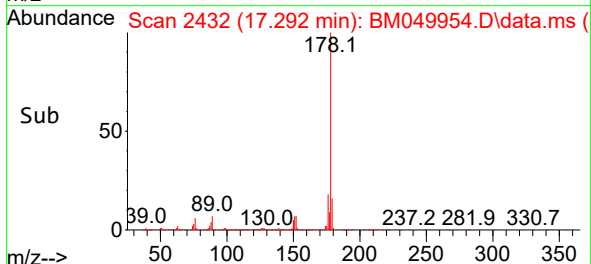
APPROVED

Reviewed By :Rahul
Chavli



04/17/2025
Supervised By :Jagrut
Upadhyay

04/17/2025



#73

Carbazole

Concen: 2.832 ng

RT: 17.562 min Scan# 2478

Delta R.T. -0.000 min

Lab File: BM049954.D

Acq: 16 Apr 2025 16:05

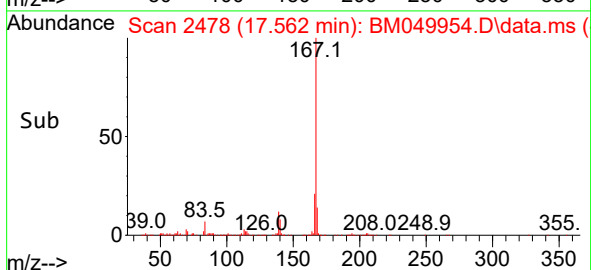
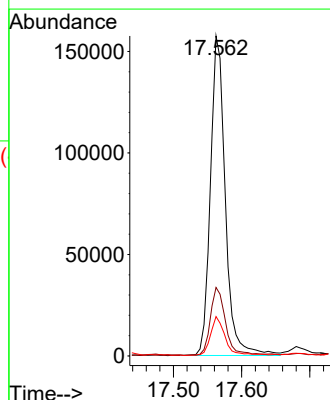
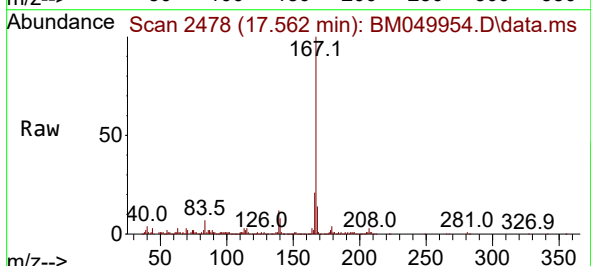
Tgt Ion:167 Resp: 240113

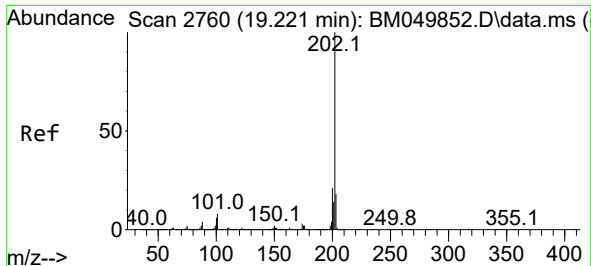
Ion Ratio Lower Upper

167 100

166 21.4 16.9 25.3

139 12.3 9.3 13.9





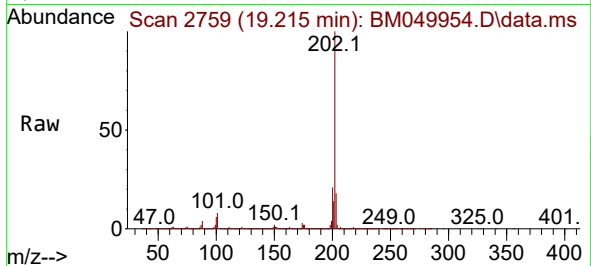
#75
Fluoranthene
Concen: 36.303 ng
RT: 19.215 min Scan# 21
Delta R.T. -0.006 min
Lab File: BM049954.D
Acq: 16 Apr 2025 16:05

Instrument :

BNA_M

ClientSampleId :

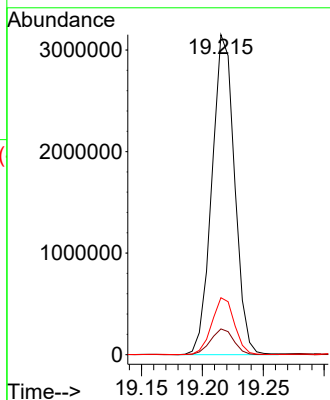
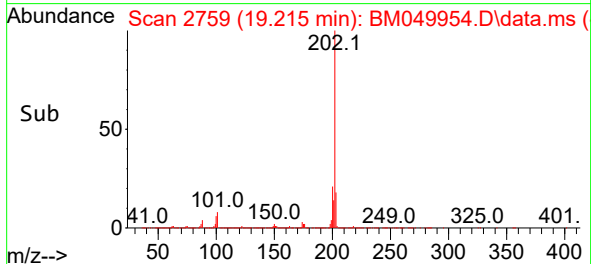
OR-03-041425DL



Tgt Ion:202 Resp: 4076708
Ion Ratio Lower Upper
202 100
101 8.1 0.0 28.4
203 17.8 0.0 37.8

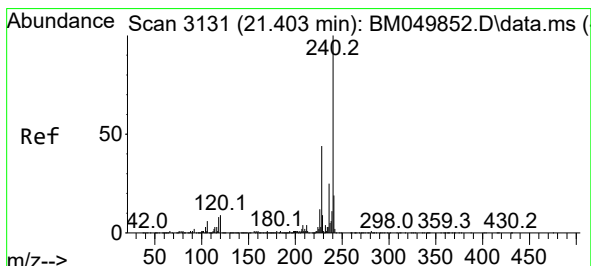
Manual Integrations
APPROVED

Reviewed By :Rahul
Chavli

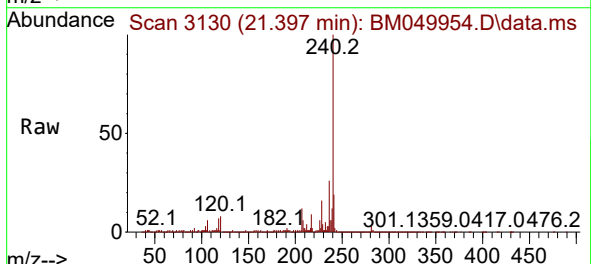


04/17/2025
Supervised By :Jagrut
Upadhyay

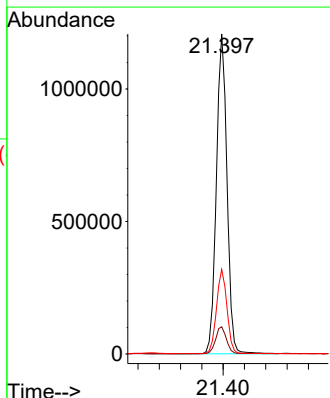
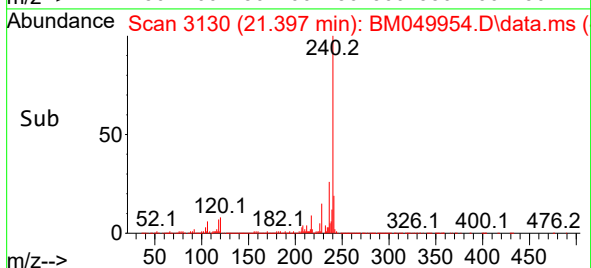
04/17/2025

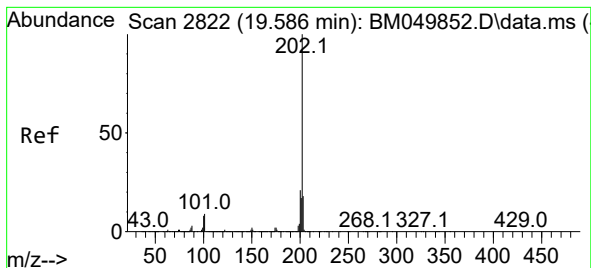


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.397 min Scan# 3130
Delta R.T. -0.006 min
Lab File: BM049954.D
Acq: 16 Apr 2025 16:05



Tgt Ion:240 Resp: 1666327
Ion Ratio Lower Upper
240 100
120 8.5 6.9 10.3
236 26.4 20.4 30.6





#78

Pyrene

Concen: 29.926 ng

RT: 19.580 min Scan# 2822

Delta R.T. -0.006 min

Lab File: BM049954.D

Acq: 16 Apr 2025 16:05

Instrument :

BNA_M

ClientSampleId :

OR-03-041425DL

Tgt Ion:202 Resp: 343675

Ion Ratio Lower Upper

202 100

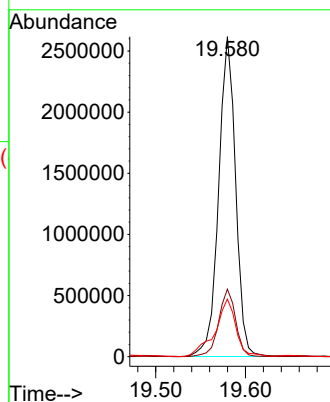
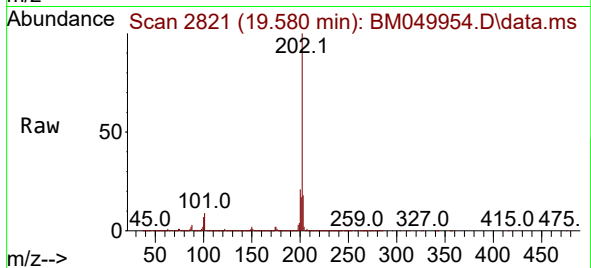
200 21.1 16.5 24.7

203 18.0 14.0 21.0

Manual Integrations

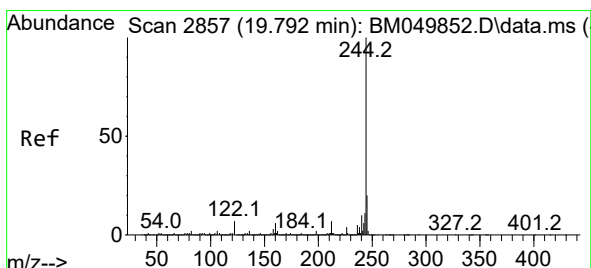
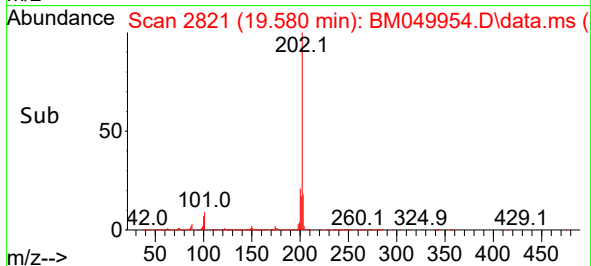
APPROVED

Reviewed By :Rahul
Chavli



04/17/2025
Supervised By :Jagrut
Upadhyay

04/17/2025



#79

Terphenyl-d14

Concen: 9.349 ng

RT: 19.780 min Scan# 2855

Delta R.T. -0.012 min

Lab File: BM049954.D

Acq: 16 Apr 2025 16:05

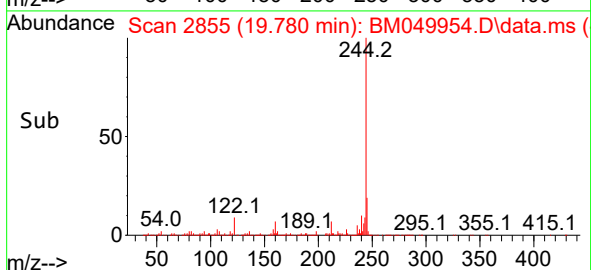
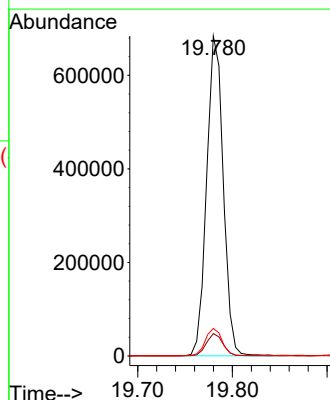
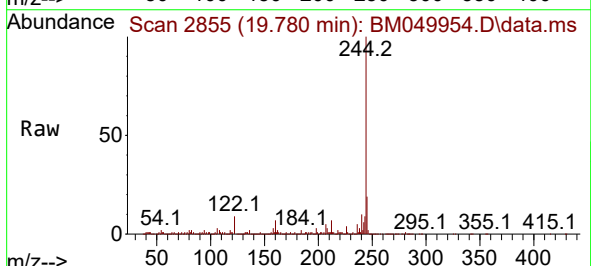
Tgt Ion:244 Resp: 831234

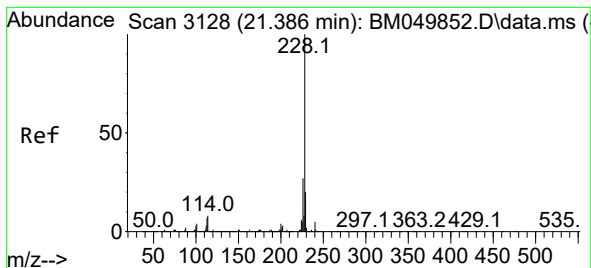
Ion Ratio Lower Upper

244 100

212 7.0 5.5 8.3

122 8.6 5.4 8.0#





#81

Benzo(a)anthracene

Concen: 13.013 ng

RT: 21.380 min Scan# 3128

Delta R.T. -0.006 min

Lab File: BM049954.D

Acq: 16 Apr 2025 16:05

Instrument :

BNA_M

ClientSampleId :

OR-03-041425DL

Tgt Ion:228 Resp: 144113

Ion Ratio Lower Upper

228 100

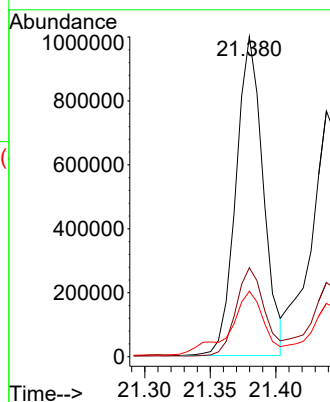
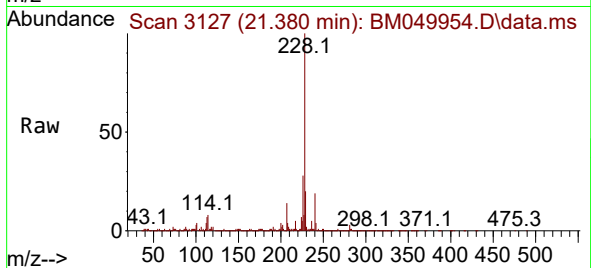
226 27.8 21.8 32.8

229 20.5 15.8 23.8

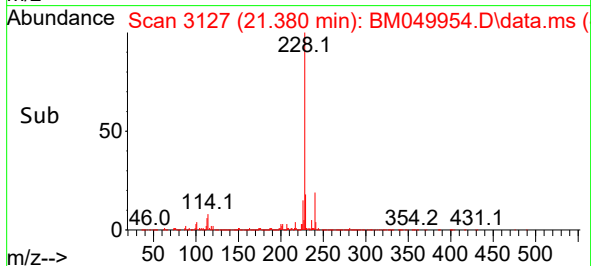
Manual Integrations

APPROVED

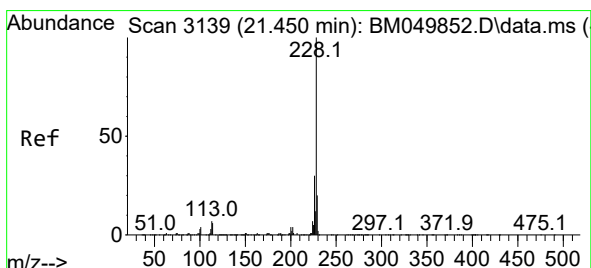
Reviewed By :Rahul
Chavli



04/17/2025
Supervised By :Jagrut
Upadhyay



04/17/2025



#83

Chrysene

Concen: 12.197 ng

RT: 21.439 min Scan# 3137

Delta R.T. -0.012 min

Lab File: BM049954.D

Acq: 16 Apr 2025 16:05

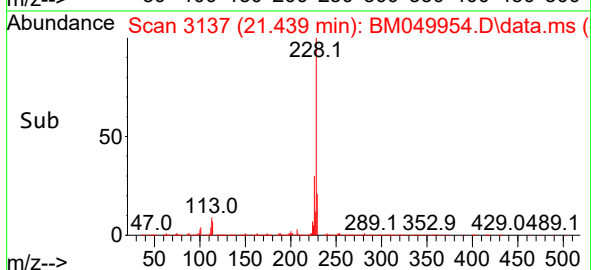
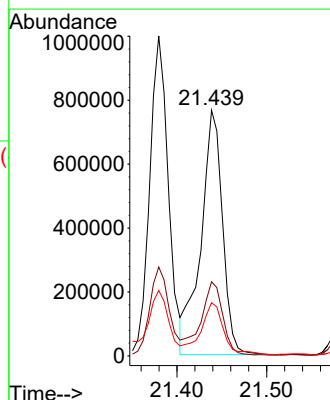
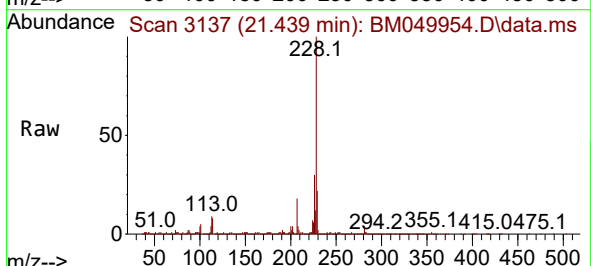
Tgt Ion:228 Resp: 1284139

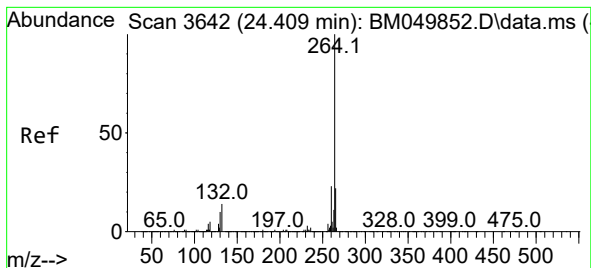
Ion Ratio Lower Upper

228 100

226 30.2 24.1 36.1

229 21.7 15.8 23.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.403 min Scan# 3

Delta R.T. -0.006 min

Lab File: BM049954.D

Acq: 16 Apr 2025 16:05

Instrument :

BNA_M

ClientSampleId :

OR-03-041425DL

Tgt Ion:264 Resp: 1846834

Ion Ratio Lower Upper

264 100

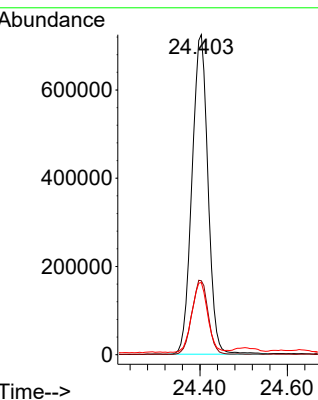
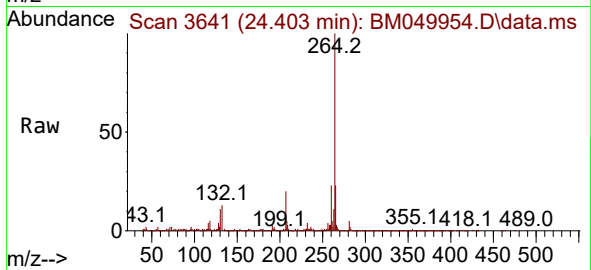
260 23.1 18.6 28.0

265 22.6 17.8 26.8

Manual Integrations

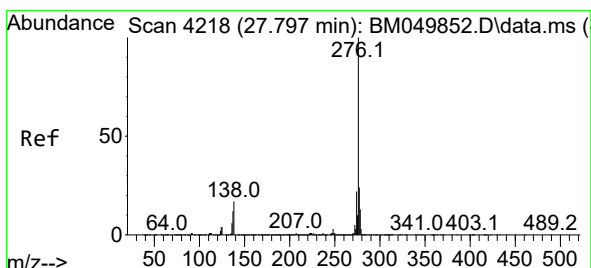
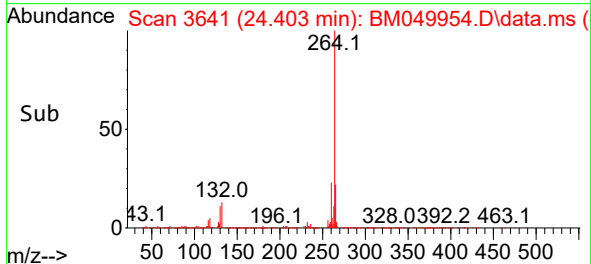
APPROVED

Reviewed By :Rahul
Chavli



04/17/2025
Supervised By :Jagrut
Upadhyay

04/17/2025



#87

Indeno(1,2,3-cd)pyrene

Concen: 5.744 ng

RT: 27.785 min Scan# 4216

Delta R.T. -0.012 min

Lab File: BM049954.D

Acq: 16 Apr 2025 16:05

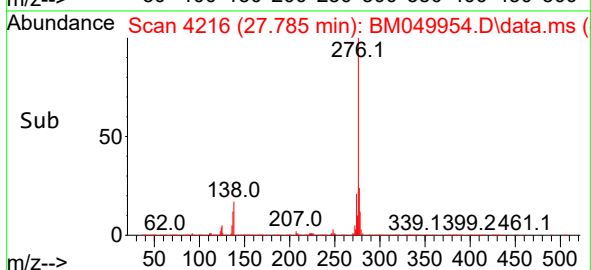
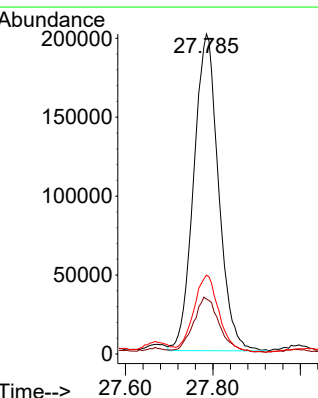
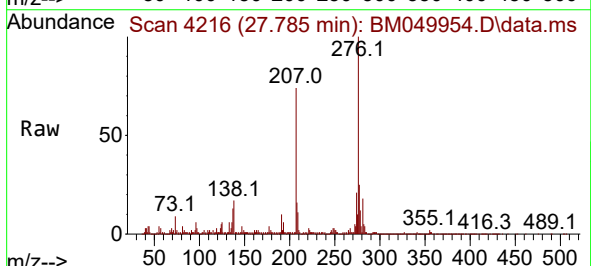
Tgt Ion:276 Resp: 790733

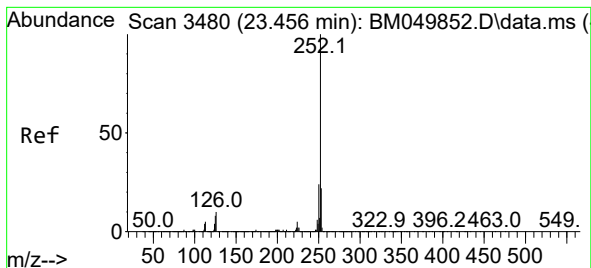
Ion Ratio Lower Upper

276 100

138 18.0 16.8 25.2

277 24.9 20.1 30.1





#88

Benzo(b)fluoranthene

Concen: 13.036 ng

RT: 23.450 min Scan# 34

Delta R.T. -0.006 min

Lab File: BM049954.D

Acq: 16 Apr 2025 16:05

Instrument :

BNA_M

ClientSampleId :

OR-03-041425DL

Tgt Ion:252 Resp: 153764

Ion Ratio Lower Upper

252 100

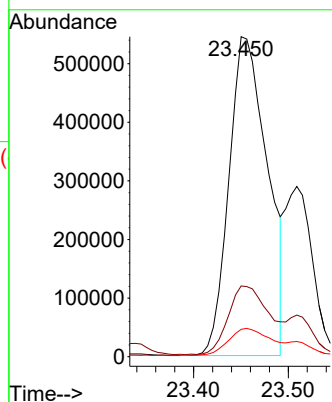
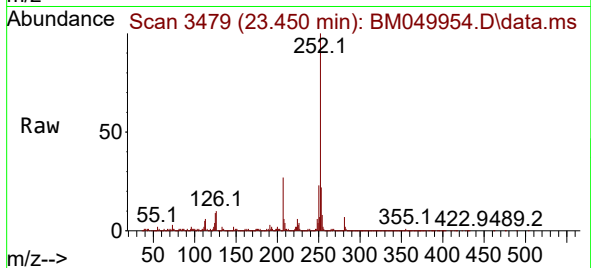
253 22.1 17.5 26.3

125 8.6 6.2 9.4

Manual Integrations

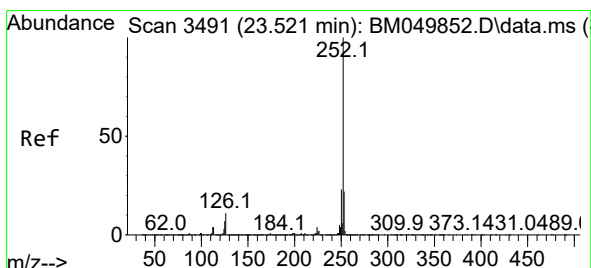
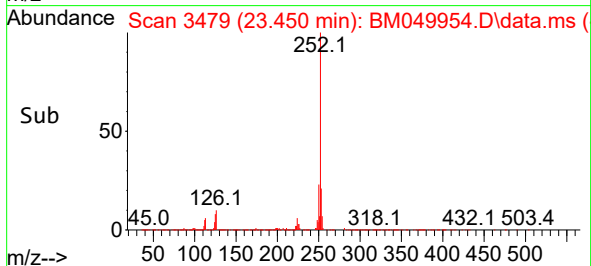
APPROVED

Reviewed By :Rahul
Chavli



04/17/2025
Supervised By :Jagrut
Upadhyay

04/17/2025



#89

Benzo(k)fluoranthene

Concen: 5.168 ng m

RT: 23.509 min Scan# 3489

Delta R.T. -0.012 min

Lab File: BM049954.D

Acq: 16 Apr 2025 16:05

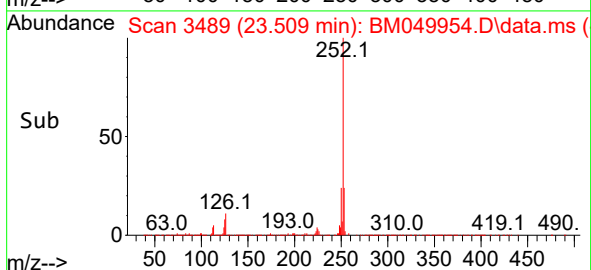
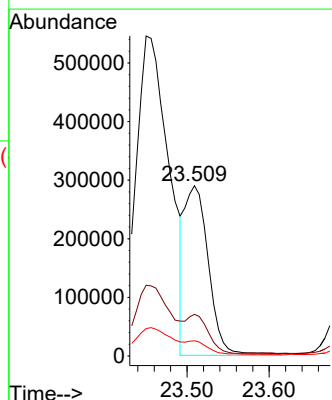
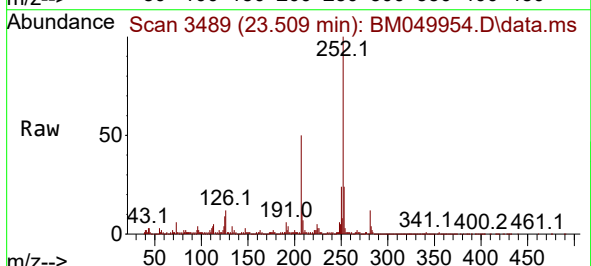
Tgt Ion:252 Resp: 590686

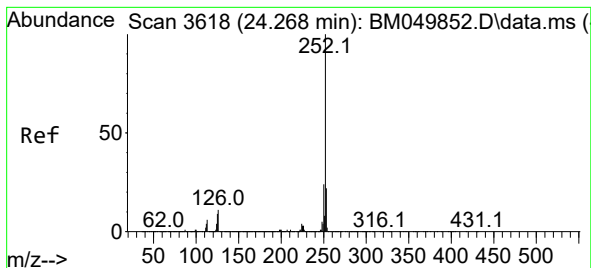
Ion Ratio Lower Upper

252 100

253 24.4 17.4 26.2

125 9.0 5.8 8.8#





#90

Benzo(a)pyrene

Concen: 11.490 ng

RT: 24.256 min Scan# 30

Delta R.T. -0.012 min

Lab File: BM049954.D

Acq: 16 Apr 2025 16:05

Instrument :

BNA_M

ClientSampleId :

OR-03-041425DL

Tgt Ion:252 Resp: 119086

Ion Ratio Lower Upper

252 100

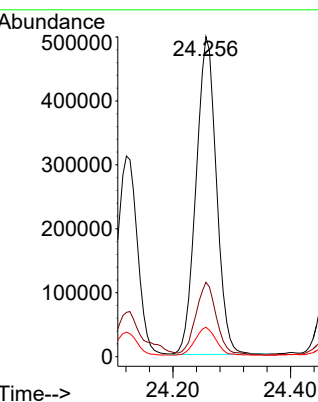
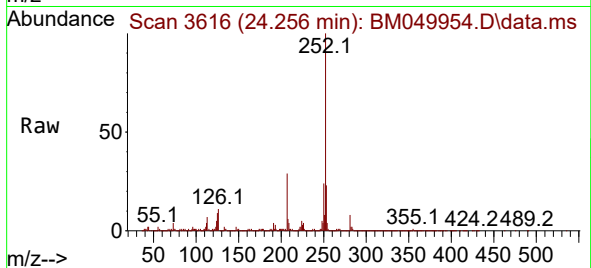
253 23.2 17.8 26.8

125 9.2 7.0 10.4

Manual Integrations

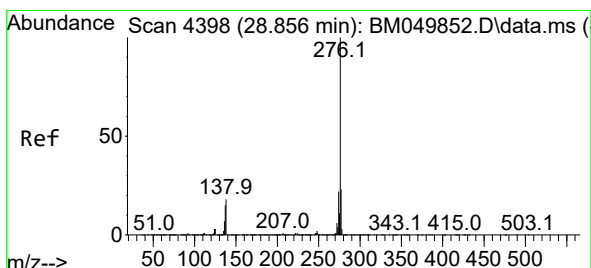
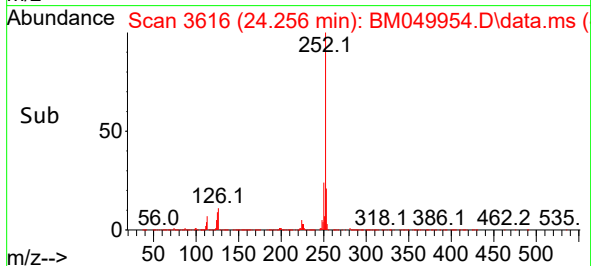
APPROVED

Reviewed By :Rahul
Chavli



04/17/2025
Supervised By :Jagrut
Upadhyay

04/17/2025



#92

Benzo(g,h,i)perylene

Concen: 6.818 ng

RT: 28.838 min Scan# 4395

Delta R.T. -0.018 min

Lab File: BM049954.D

Acq: 16 Apr 2025 16:05

Tgt Ion:276 Resp: 789996

Ion Ratio Lower Upper

276 100

277 23.3 18.7 28.1

138 18.2 14.6 21.8

