

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040325\
 Data File : BM049814.D
 Acq On : 03 Apr 2025 20:30
 Operator : RC/JU
 Sample : Q1695-01 5X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 TT-2

Quant Time: Apr 04 01:02:08 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

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 04/04/2025
 Supervised By :Jagrut Upadhyay 04/04/2025

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.787	152	432545	20.000	ng	-0.02
21) Naphthalene-d8	10.581	136	1498793	20.000	ng	-0.02
39) Acenaphthene-d10	14.428	164	958731	20.000	ng	-0.02
64) Phenanthrene-d10	17.175	188	1843998	20.000	ng	-0.01
76) Chrysene-d12	21.410	240	1891598	20.000	ng	-0.02
86) Perylene-d12	24.421	264	2014715	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.370	112	434620	16.954	ng	-0.02
7) Phenol-d6	6.958	99	609588	18.949	ng	-0.02
23) Nitrobenzene-d5	8.940	82	366626	12.559	ng	-0.02
42) 2,4,6-Tribromophenol	15.916	330	187342	16.734	ng	-0.02
45) 2-Fluorobiphenyl	13.051	172	931725	12.171	ng	-0.02
79) Terphenyl-d14	19.798	244	1132294	10.087	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	10.634	128	197069	2.557	ng	97
52) Acenaphthene	14.492	154	212082	4.022	ng	100
55) Dibenzofuran	14.828	168	182399	2.076	ng	99
58) Fluorene	15.475	166	296327	4.142	ng	99
71) Phenanthrene	17.216	178	4243554	41.444	ng	100
72) Anthracene	17.304	178	1201279	12.114	ng	99
73) Carbazole	17.575	167	529529	5.896	ng	98
75) Fluoranthene	19.233	202	7613216	64.582	ng	99
78) Pyrene	19.592	202	6700202	50.698	ng	99
81) Benzo(a)anthracene	21.392	228	3957711	31.324	ng	98
83) Chrysene	21.457	228	3345597	27.934	ng	98
84) Bis(2-ethylhexyl)phtha...	21.321	149	255196	3.993	ng	# 97
87) Indeno(1,2,3-cd)pyrene	27.815	276	2513503	17.333	ng	98
88) Benzo(b)fluoranthene	23.474	252	4910102	36.184	ng	97
89) Benzo(k)fluoranthene	23.533	252	1593319m	11.933	ng	
90) Benzo(a)pyrene	24.280	252	3715375	32.596	ng	97
91) Dibenzo(a,h)anthracene	27.862	278	633686	5.245	ng	# 87
92) Benzo(g,h,i)perylene	28.880	276	2686231	22.073	ng	99

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

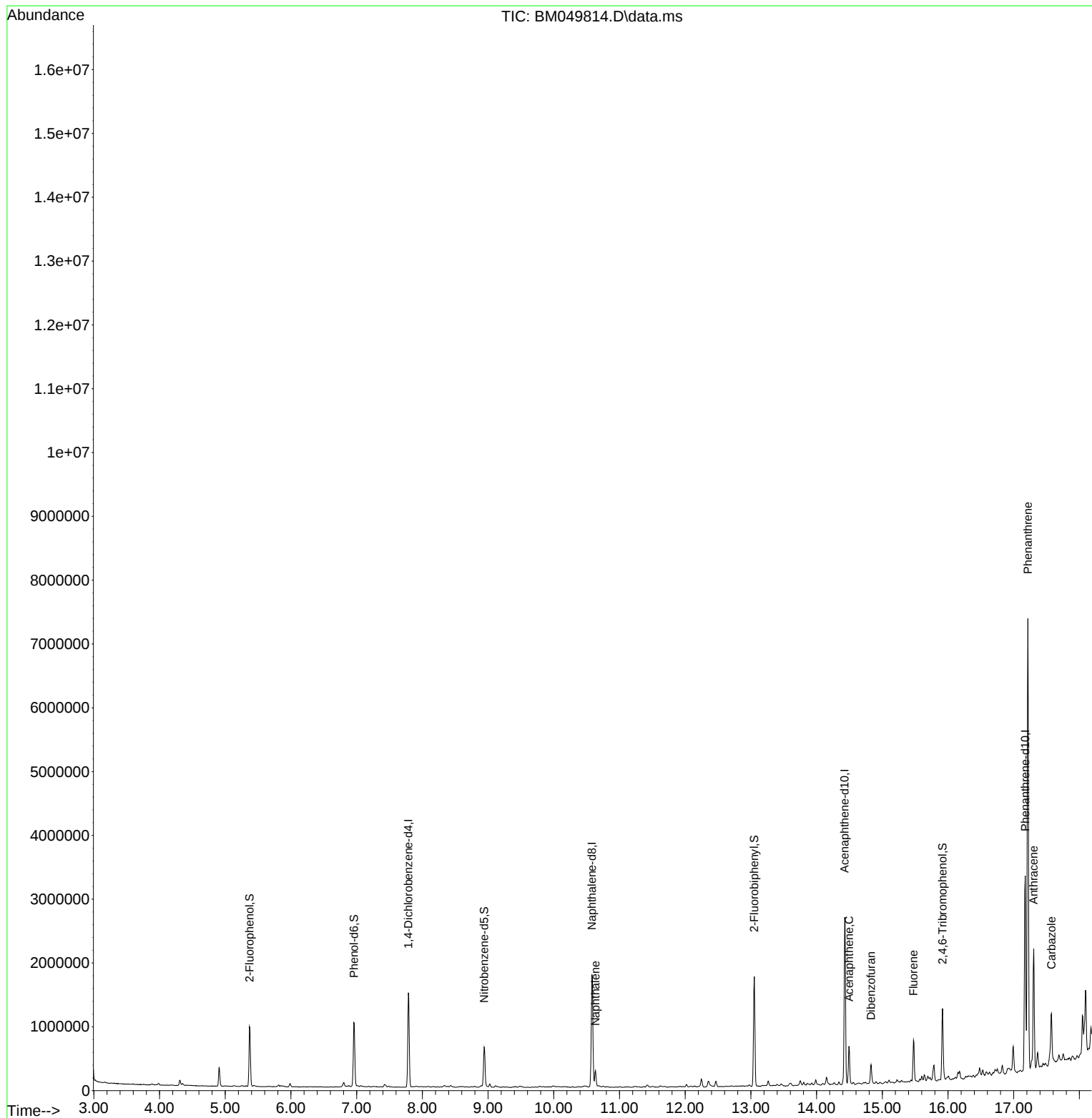
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040325\
Data File : BM049814.D
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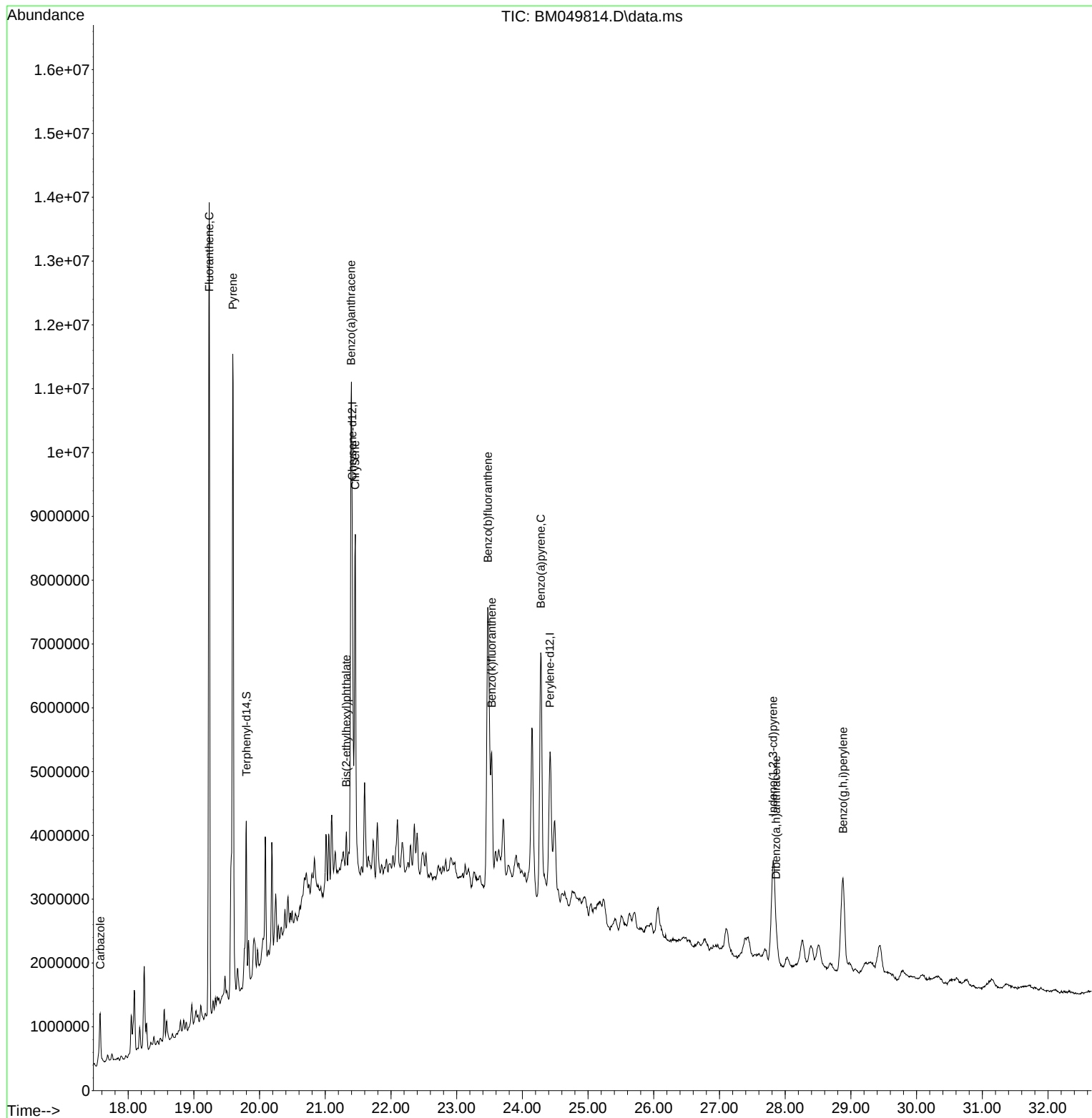
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Acq On : 03 Apr 2025 20:30
Operator : RC/JU
Sample : Q1695-01 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

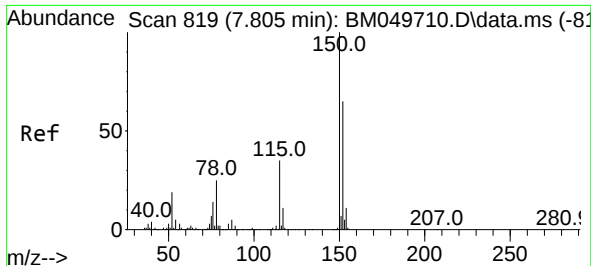
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BNA_M
ClientSampleId :
TT-2

Quant Time: Apr 04 01:02:08 2025
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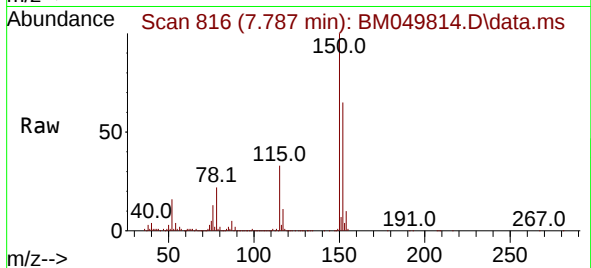
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.787 min Scan# 819
Delta R.T. -0.018 min
Lab File: BM049814.D
Acq: 03 Apr 2025 20:30

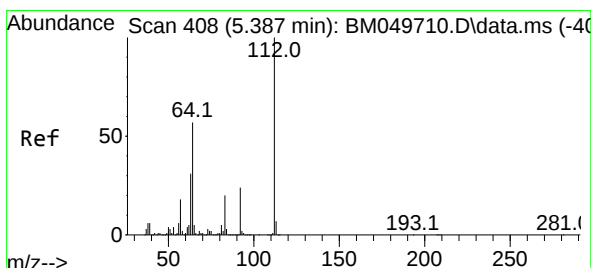
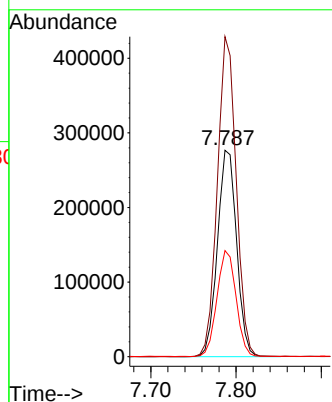
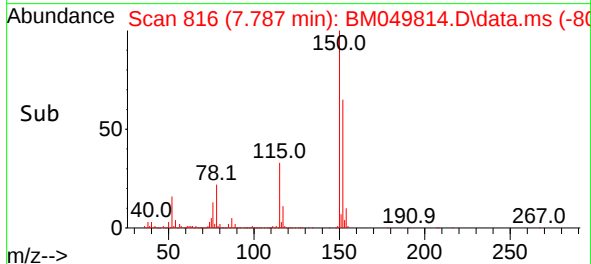
Instrument :
BNA_M
ClientSampleId :
TT-2



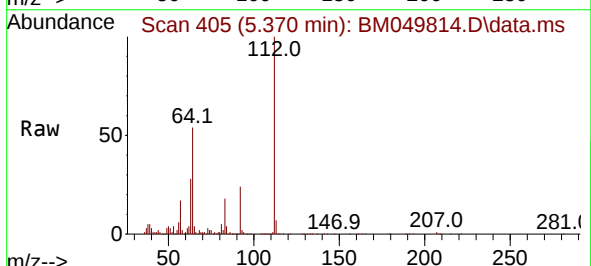
Tgt Ion:152 Resp: 432549
Ion Ratio Lower Upper
152 100
150 155.0 123.8 185.8
115 51.4 43.0 64.6

Manual Integrations
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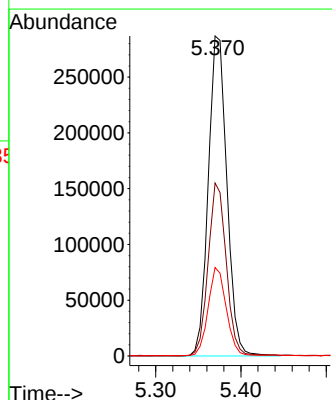
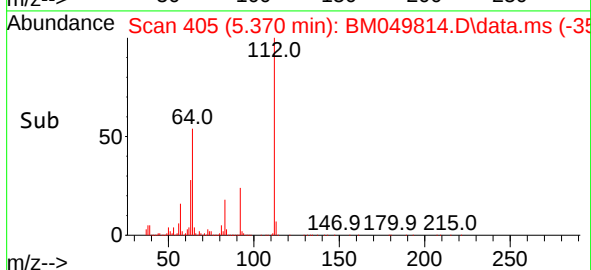
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

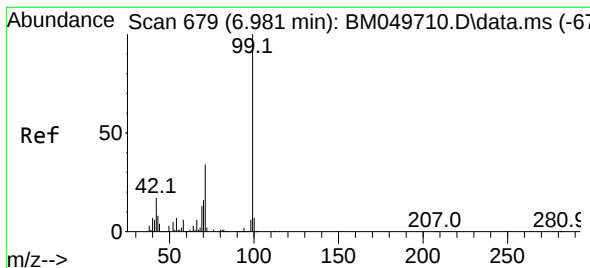


#5
2-Fluorophenol
Concen: 16.954 ng
RT: 5.370 min Scan# 405
Delta R.T. -0.018 min
Lab File: BM049814.D
Acq: 03 Apr 2025 20:30



Tgt Ion:112 Resp: 434620
Ion Ratio Lower Upper
112 100
64 54.1 45.3 67.9
63 27.7 24.4 36.6





#7

Phenol-d6

Concen: 18.949 ng

RT: 6.958 min Scan# 61

Delta R.T. -0.023 min

Lab File: BM049814.D

Acq: 03 Apr 2025 20:30

Instrument :

BNA_M

ClientSampleId :

TT-2

Tgt Ion: 99 Resp: 60958

Ion Ratio Lower Upper

99 100

42 15.9 13.6 20.4

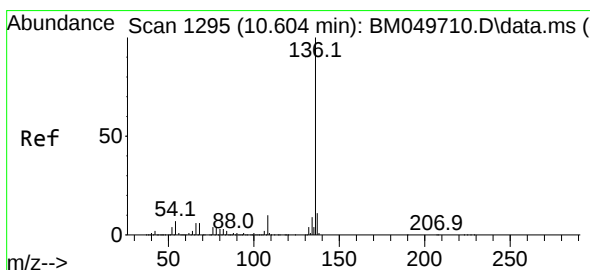
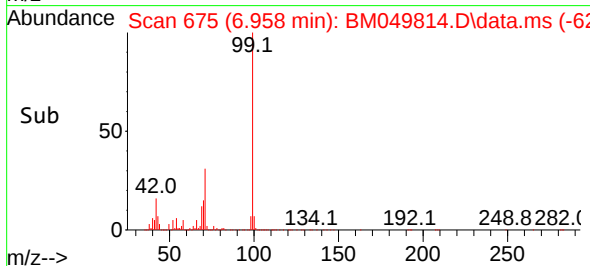
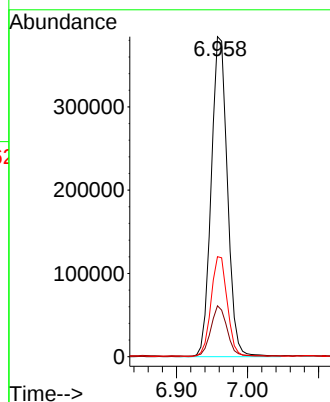
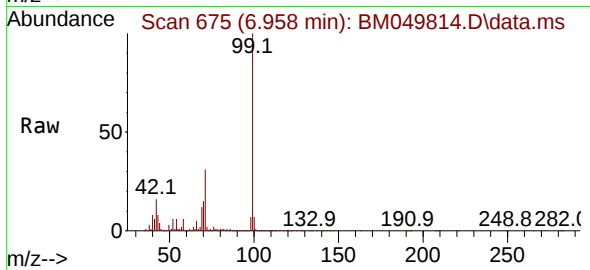
71 31.3 27.0 40.6

Manual Integrations

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#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.581 min Scan# 1291

Delta R.T. -0.023 min

Lab File: BM049814.D

Acq: 03 Apr 2025 20:30

Tgt Ion:136 Resp: 1498793

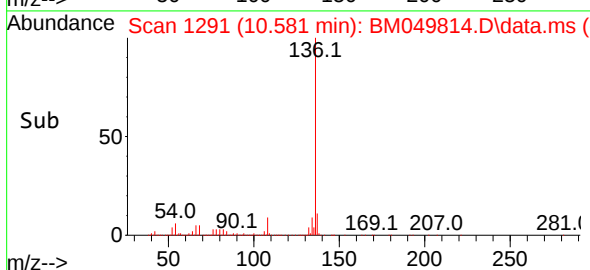
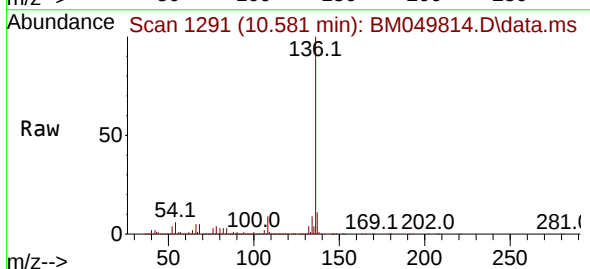
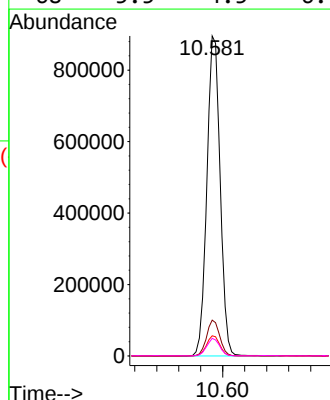
Ion Ratio Lower Upper

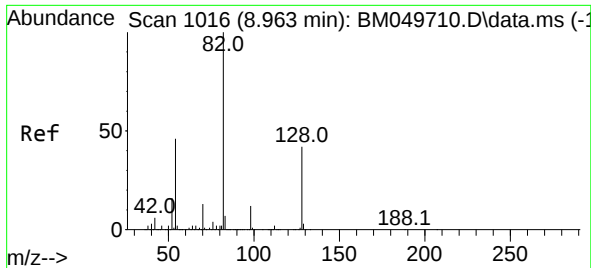
136 100

137 11.2 8.6 12.8

54 6.3 5.8 8.8

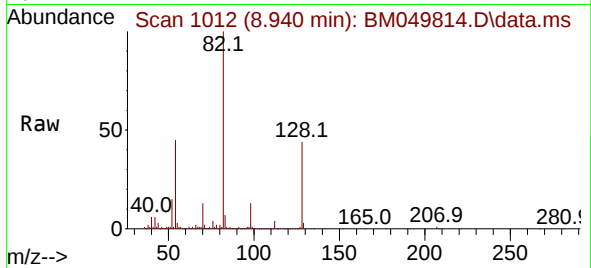
68 5.5 4.5 6.7





#23
Nitrobenzene-d5
Concen: 12.559 ng
RT: 8.940 min Scan# 1016
Delta R.T. -0.023 min
Lab File: BM049814.D
Acq: 03 Apr 2025 20:30

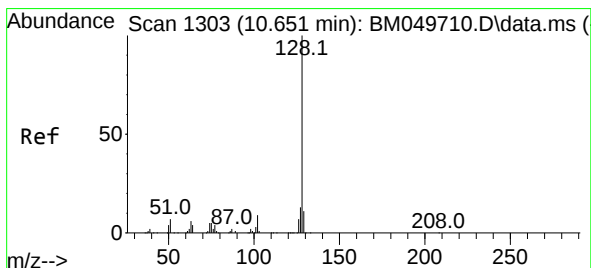
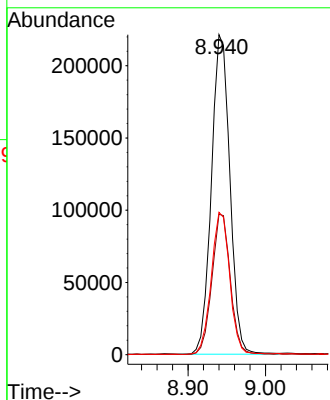
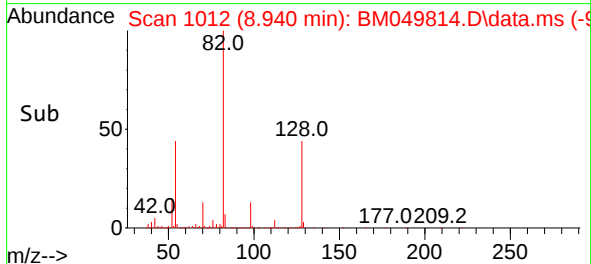
Instrument :
BNA_M
ClientSampleId :
TT-2



Tgt Ion: 82 Resp: 366620
Ion Ratio Lower Upper
82 100
128 43.9 33.4 50.0
54 44.5 36.4 54.6

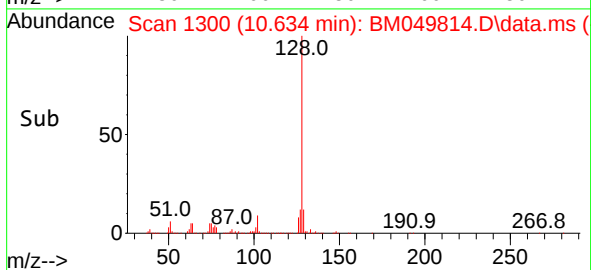
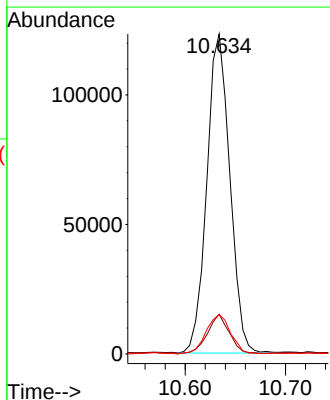
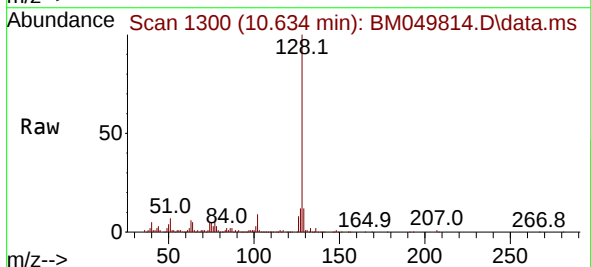
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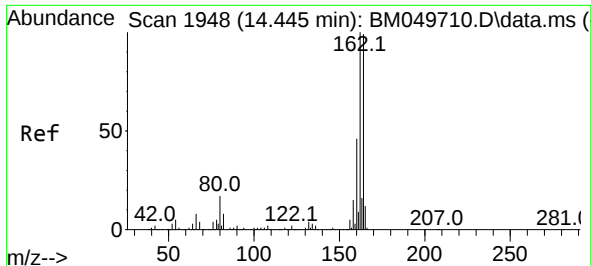
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025



#31
Naphthalene
Concen: 2.557 ng
RT: 10.634 min Scan# 1300
Delta R.T. -0.018 min
Lab File: BM049814.D
Acq: 03 Apr 2025 20:30

Tgt Ion:128 Resp: 197069
Ion Ratio Lower Upper
128 100
129 12.4 8.6 13.0
127 12.3 10.4 15.6





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.428 min Scan# 1945

Delta R.T. -0.018 min

Lab File: BM049814.D

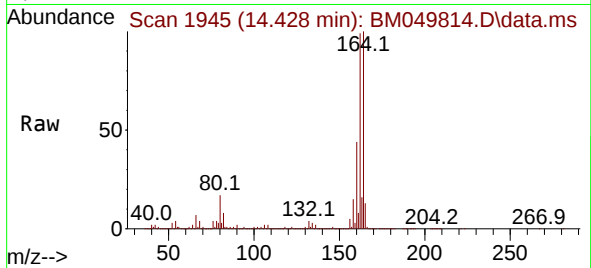
Acq: 03 Apr 2025 20:30

Instrument :

BNA_M

ClientSampleId :

TT-2



Tgt Ion:164 Resp: 95873

Ion Ratio Lower Upper

164 100

162 99.4 80.5 120.7

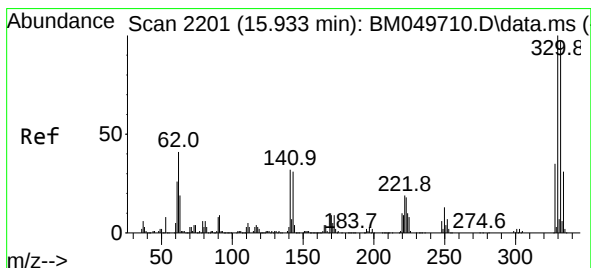
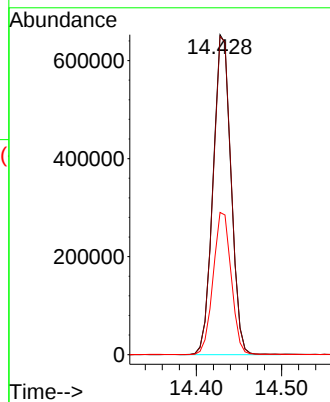
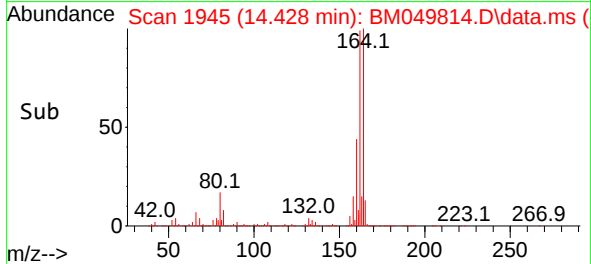
160 44.4 36.9 55.3

Manual Integrations

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Supervised By :Jagrut Upadhyay 04/04/2025



#42

2,4,6-Tribromophenol

Concen: 16.734 ng

RT: 15.916 min Scan# 2198

Delta R.T. -0.017 min

Lab File: BM049814.D

Acq: 03 Apr 2025 20:30

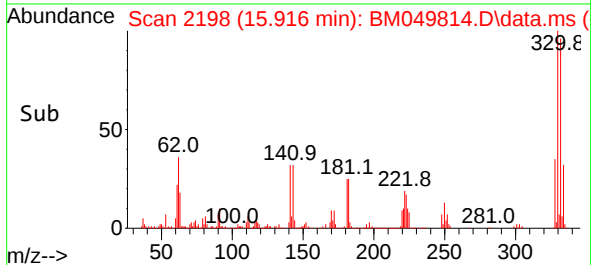
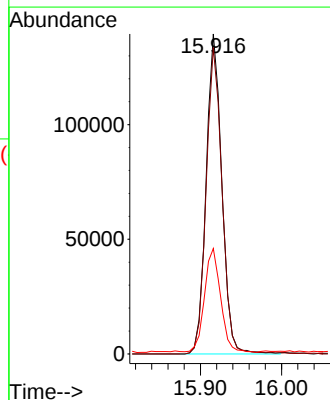
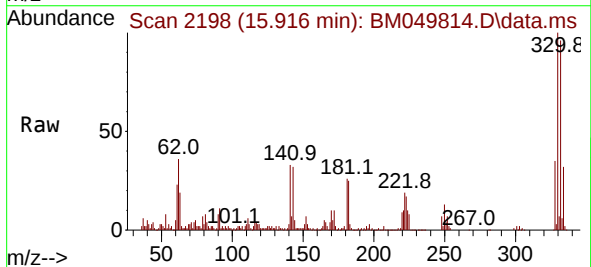
Tgt Ion:330 Resp: 187342

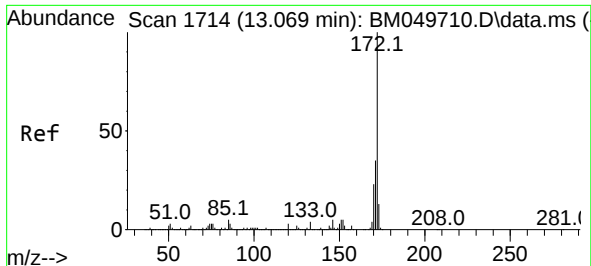
Ion Ratio Lower Upper

330 100

332 96.7 77.0 115.4

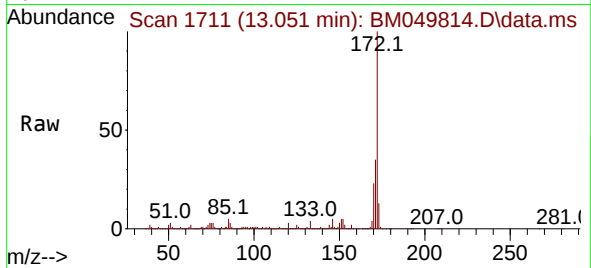
141 33.4 27.8 41.6





#45
2-Fluorobiphenyl
Concen: 12.171 ng
RT: 13.051 min Scan# 1711
Delta R.T. -0.018 min
Lab File: BM049814.D
Acq: 03 Apr 2025 20:30

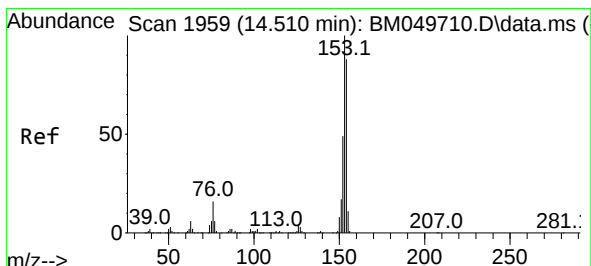
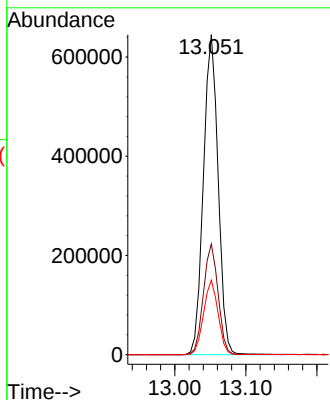
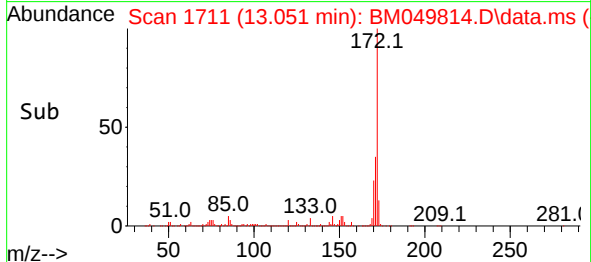
Instrument :
BNA_M
ClientSampleId :
TT-2



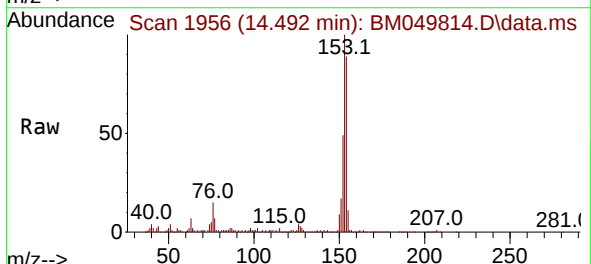
Tgt Ion:172 Resp: 931725
Ion Ratio Lower Upper
172 100
171 34.6 27.9 41.9
170 23.3 18.6 28.0

Manual Integrations
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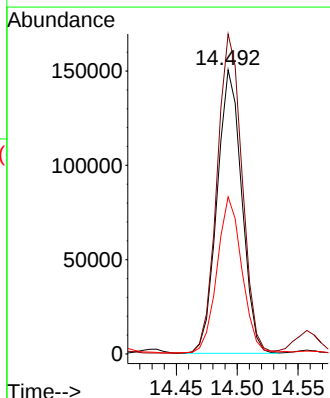
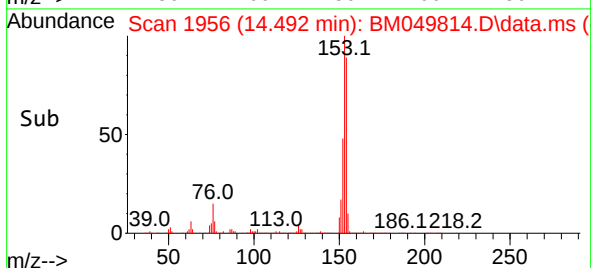
Reviewed By :Rahul Chavli 04/04/2025
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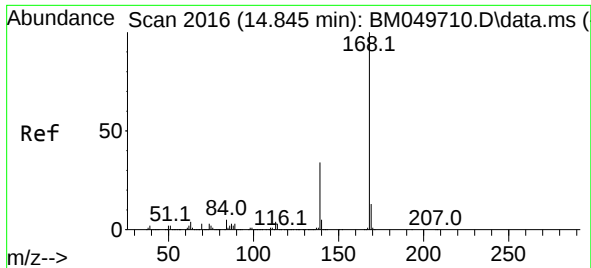


#52
Acenaphthene
Concen: 4.022 ng
RT: 14.492 min Scan# 1956
Delta R.T. -0.018 min
Lab File: BM049814.D
Acq: 03 Apr 2025 20:30



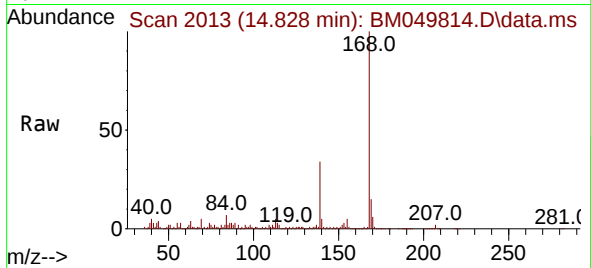
Tgt Ion:154 Resp: 212082
Ion Ratio Lower Upper
154 100
153 112.6 90.4 135.6
152 55.3 44.2 66.2





#55
Dibenzenofuran
Concen: 2.076 ng
RT: 14.828 min Scan# 2013
Delta R.T. -0.018 min
Lab File: BM049814.D
Acq: 03 Apr 2025 20:30

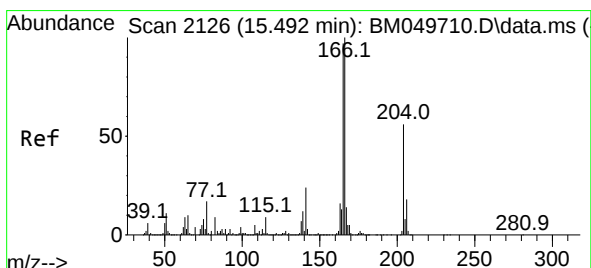
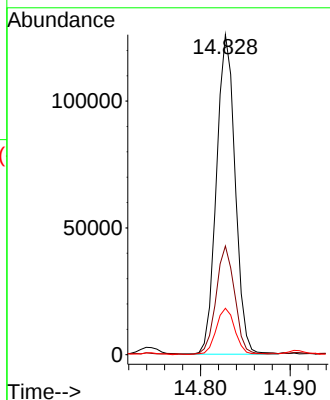
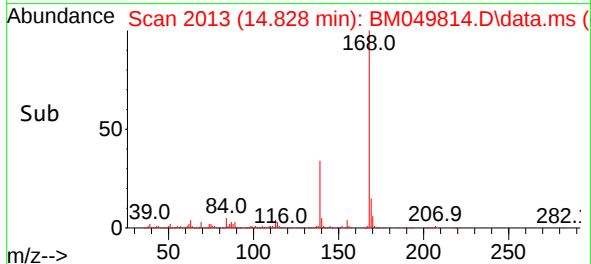
Instrument :
BNA_M
ClientSampleId :
TT-2



Tgt Ion:168 Resp: 182399
Ion Ratio Lower Upper
168 100
139 34.0 27.4 41.0
169 14.5 10.7 16.1

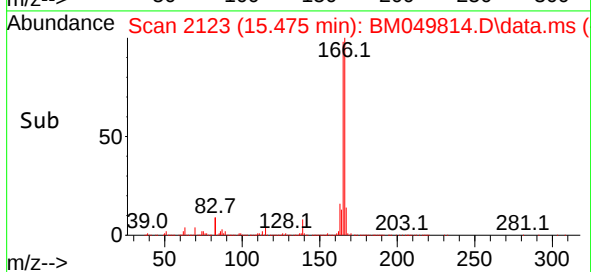
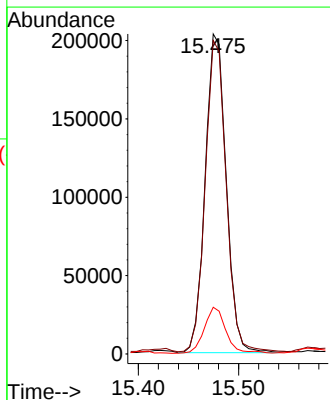
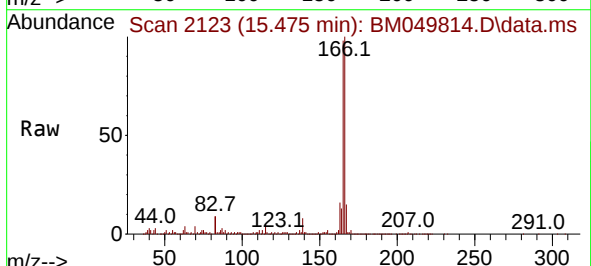
Manual Integrations
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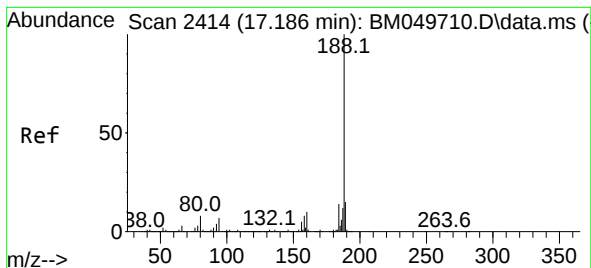
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025



#58
Fluorene
Concen: 4.142 ng
RT: 15.475 min Scan# 2123
Delta R.T. -0.018 min
Lab File: BM049814.D
Acq: 03 Apr 2025 20:30

Tgt Ion:166 Resp: 296327
Ion Ratio Lower Upper
166 100
165 97.9 77.5 116.3
167 14.6 10.9 16.3





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.175 min Scan# 2412

Delta R.T. -0.011 min

Lab File: BM049814.D

Acq: 03 Apr 2025 20:30

Instrument :

BNA_M

ClientSampleId :

TT-2

Tgt Ion:188 Resp: 1843998

Ion Ratio Lower Upper

188 100

94 6.9 5.8 8.6

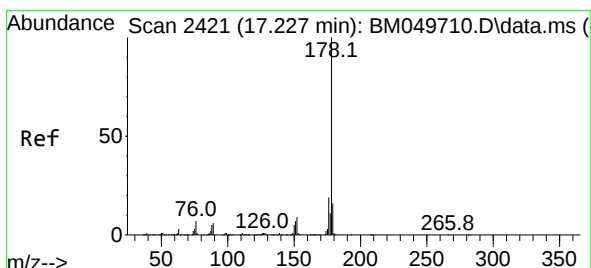
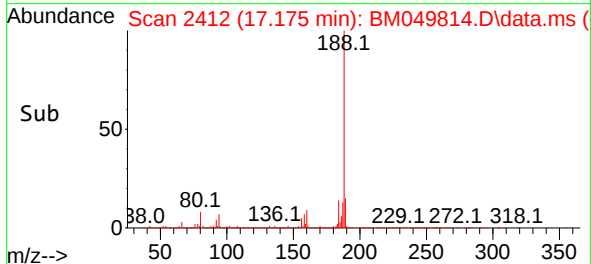
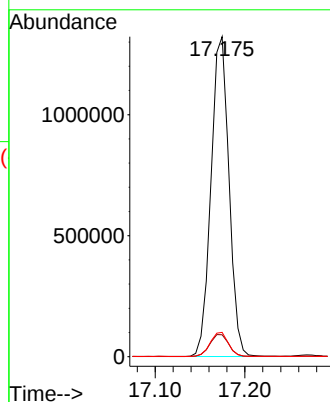
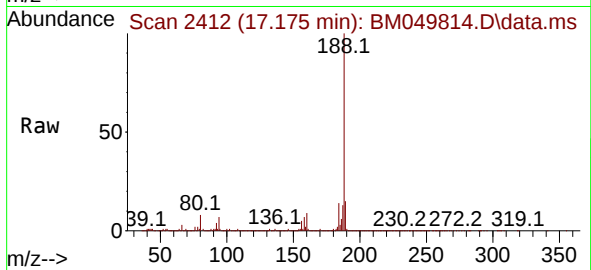
80 7.6 6.3 9.5

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/04/2025

Supervised By :Jagrut Upadhyay 04/04/2025



#71

Phenanthrene

Concen: 41.444 ng

RT: 17.216 min Scan# 2419

Delta R.T. -0.012 min

Lab File: BM049814.D

Acq: 03 Apr 2025 20:30

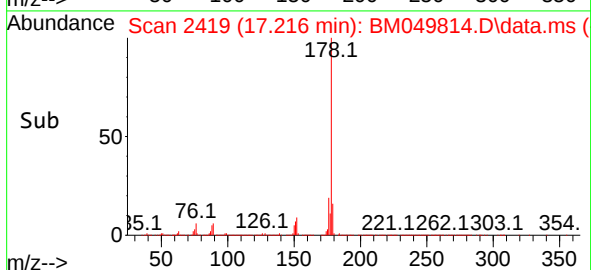
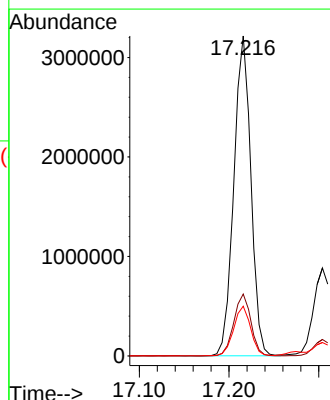
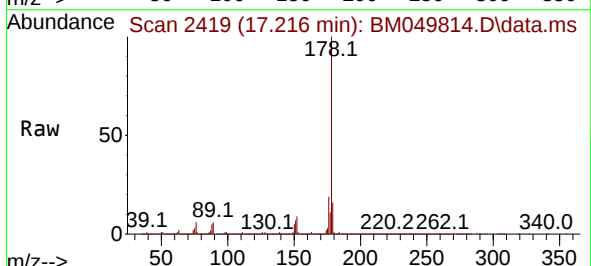
Tgt Ion:178 Resp: 4243554

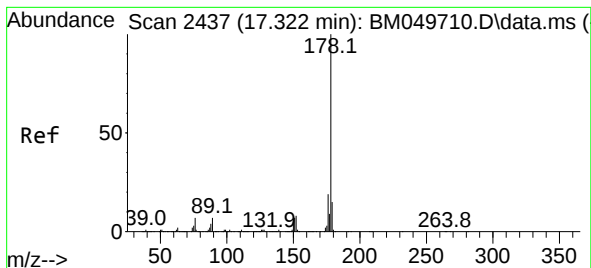
Ion Ratio Lower Upper

178 100

176 19.4 15.5 23.3

179 15.6 12.5 18.7





#72

Anthracene

Concen: 12.114 ng

RT: 17.304 min Scan# 2437

Delta R.T. -0.018 min

Lab File: BM049814.D

Acq: 03 Apr 2025 20:30

Instrument :

BNA_M

ClientSampleId :

TT-2

Tgt Ion:178 Resp: 1201279

Ion Ratio Lower Upper

178 100

176 18.7 15.1 22.7

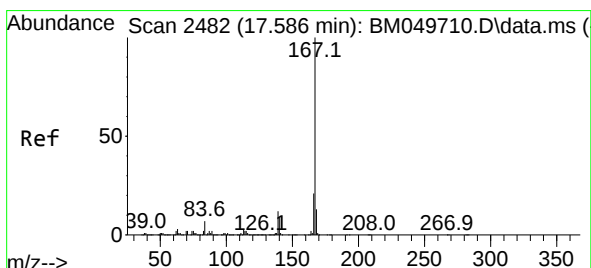
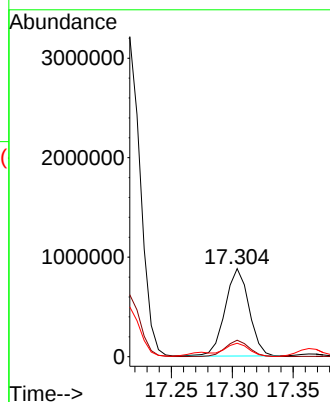
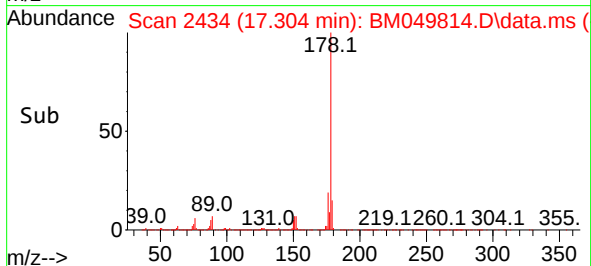
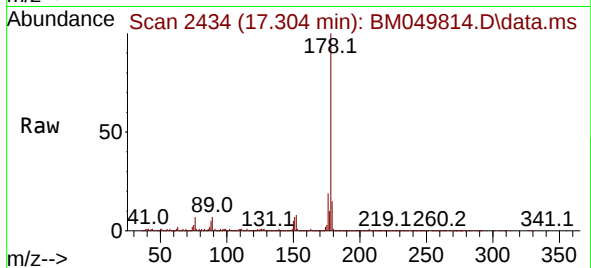
179 15.2 12.4 18.6

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/04/2025

Supervised By :Jagrut Upadhyay 04/04/2025



#73

Carbazole

Concen: 5.896 ng

RT: 17.575 min Scan# 2480

Delta R.T. -0.012 min

Lab File: BM049814.D

Acq: 03 Apr 2025 20:30

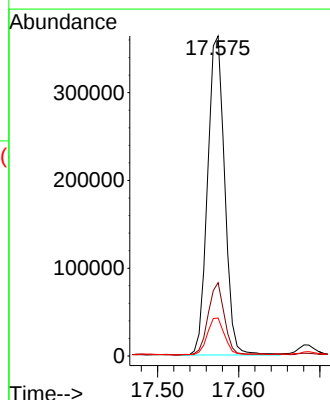
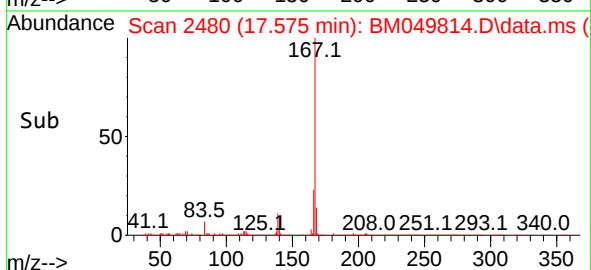
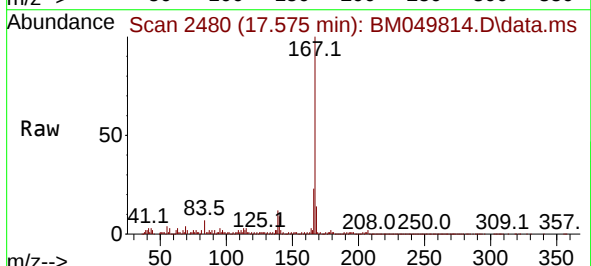
Tgt Ion:167 Resp: 529529

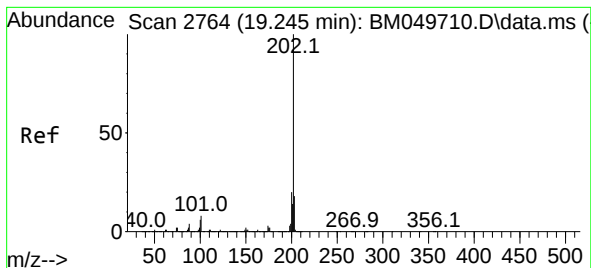
Ion Ratio Lower Upper

167 100

166 22.9 17.0 25.6

139 11.8 9.4 14.2





#75

Fluoranthene

Concen: 64.582 ng

RT: 19.233 min Scan# 21

Delta R.T. -0.012 min

Lab File: BM049814.D

Acq: 03 Apr 2025 20:30

Instrument :

BNA_M

ClientSampleId :

TT-2

Tgt Ion:202 Resp: 7613210

Ion Ratio Lower Upper

202 100

101 7.2 0.0 27.8

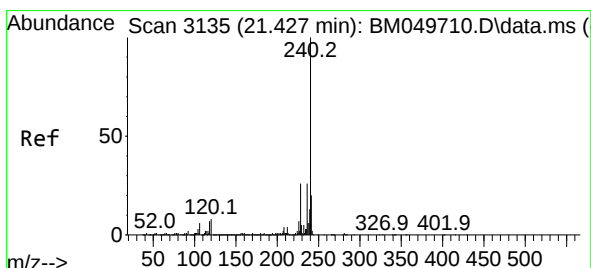
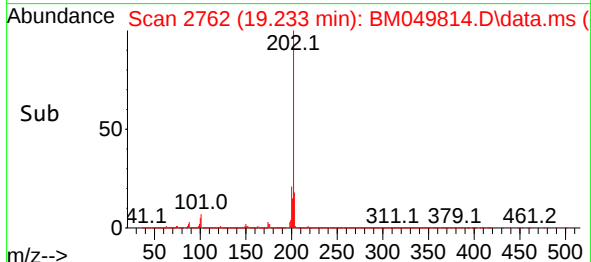
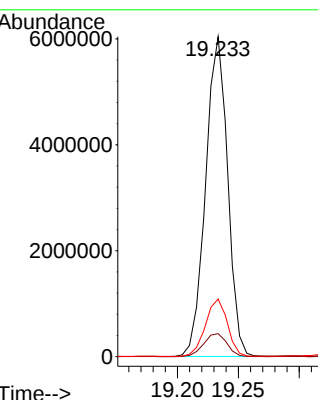
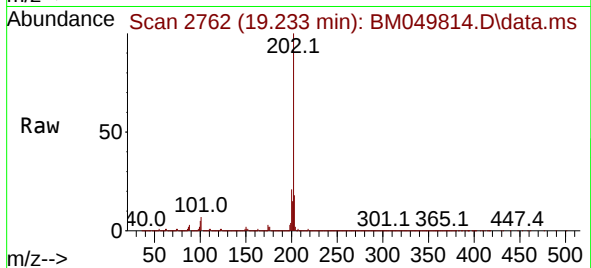
203 18.0 0.0 37.6

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/04/2025

Supervised By :Jagrut Upadhyay 04/04/2025



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.410 min Scan# 3132

Delta R.T. -0.018 min

Lab File: BM049814.D

Acq: 03 Apr 2025 20:30

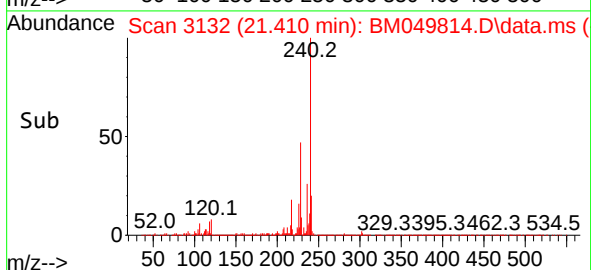
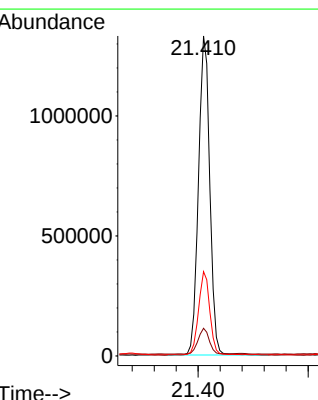
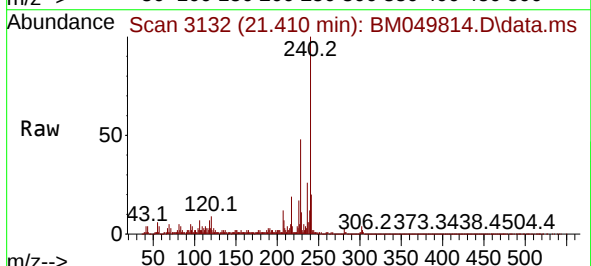
Tgt Ion:240 Resp: 1891598

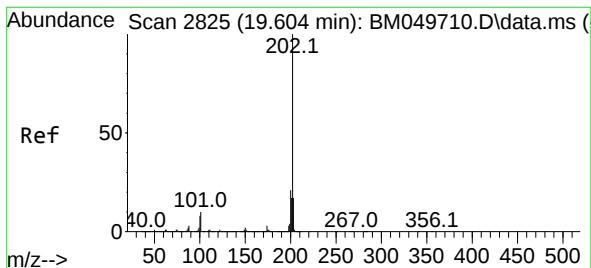
Ion Ratio Lower Upper

240 100

120 8.6 6.5 9.7

236 26.4 20.7 31.1





#78

Pyrene

Concen: 50.698 ng

RT: 19.592 min Scan# 2823

Delta R.T. -0.012 min

Lab File: BM049814.D

Acq: 03 Apr 2025 20:30

Instrument :

BNA_M

ClientSampleId :

TT-2

Tgt Ion:202 Resp: 670020

Ion Ratio Lower Upper

202 100

200 21.1 17.0 25.4

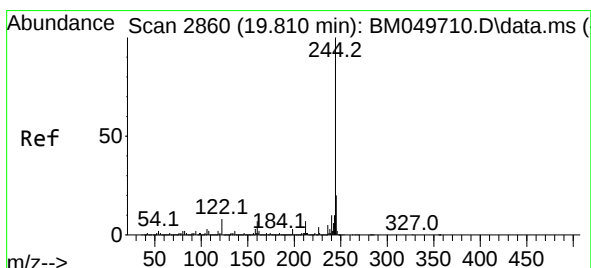
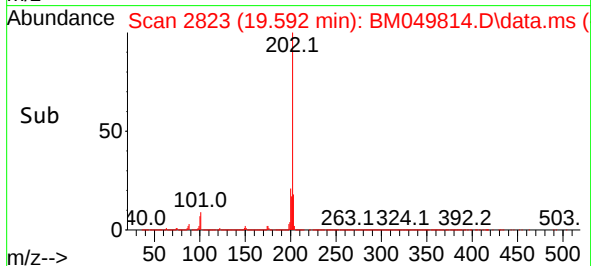
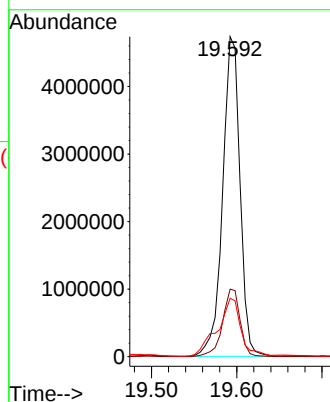
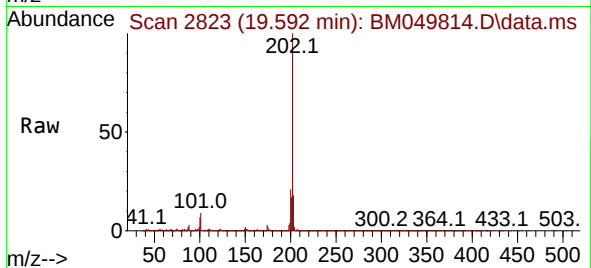
203 18.3 14.0 21.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/04/2025

Supervised By :Jagrut Upadhyay 04/04/2025



#79

Terphenyl-d14

Concen: 10.087 ng

RT: 19.798 min Scan# 2858

Delta R.T. -0.012 min

Lab File: BM049814.D

Acq: 03 Apr 2025 20:30

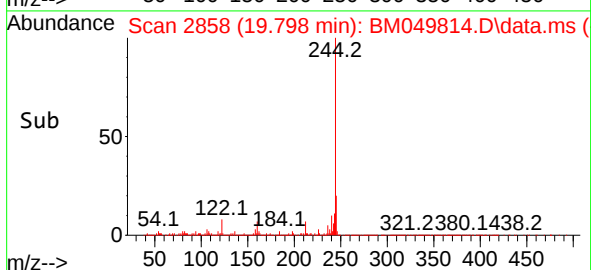
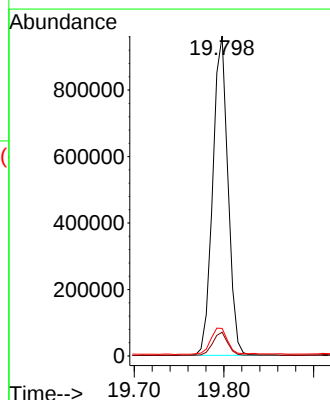
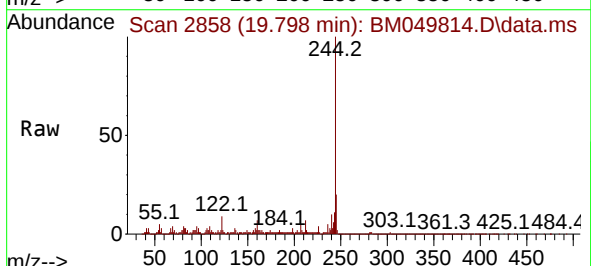
Tgt Ion:244 Resp: 1132294

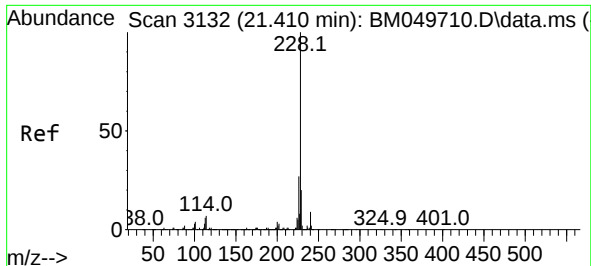
Ion Ratio Lower Upper

244 100

212 7.4 5.8 8.6

122 8.6 6.0 9.0





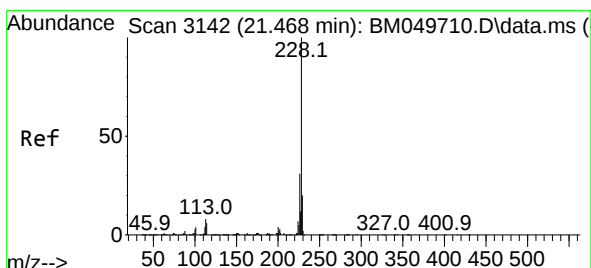
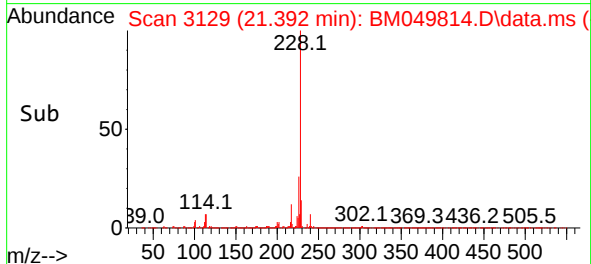
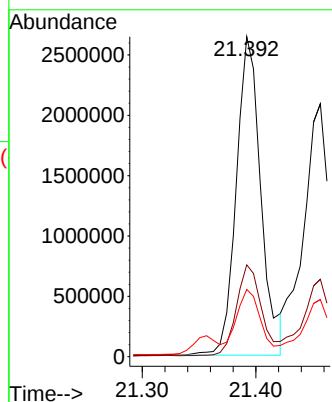
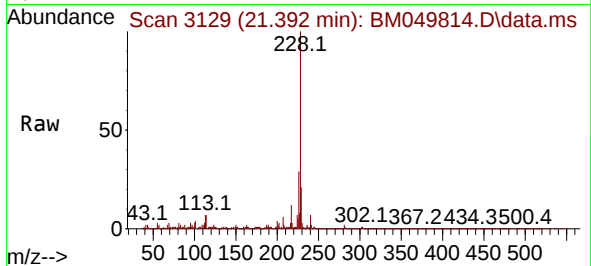
#81
Benzo(a)anthracene
Concen: 31.324 ng
RT: 21.392 min Scan# 3132
Delta R.T. -0.018 min
Lab File: BM049814.D
Acq: 03 Apr 2025 20:30

Instrument :
BNA_M
ClientSampleId :
TT-2

Tgt Ion:228 Resp: 395771
Ion Ratio Lower Upper
228 100
226 28.7 22.0 33.0
229 21.0 15.8 23.8

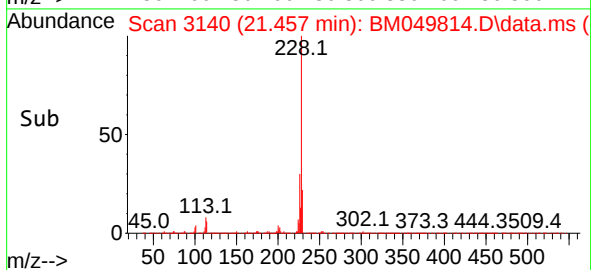
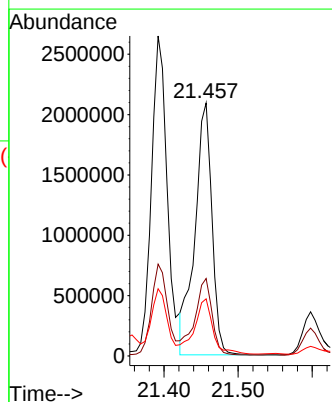
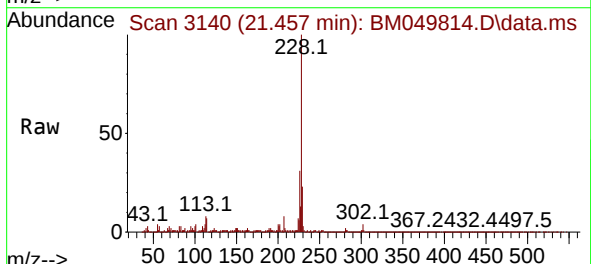
Manual Integrations
APPROVED

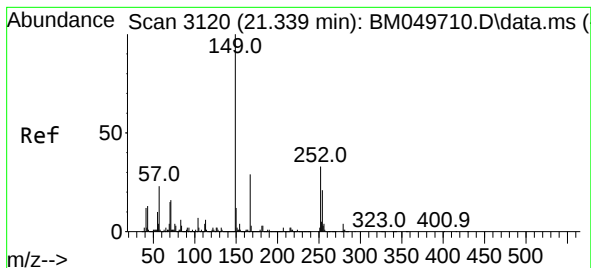
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025



#83
Chrysene
Concen: 27.934 ng
RT: 21.457 min Scan# 3140
Delta R.T. -0.012 min
Lab File: BM049814.D
Acq: 03 Apr 2025 20:30

Tgt Ion:228 Resp: 3345597
Ion Ratio Lower Upper
228 100
226 30.6 24.5 36.7
229 22.6 15.8 23.6





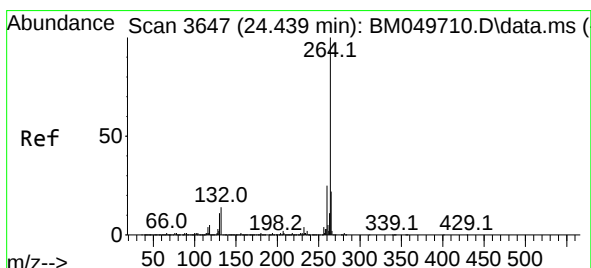
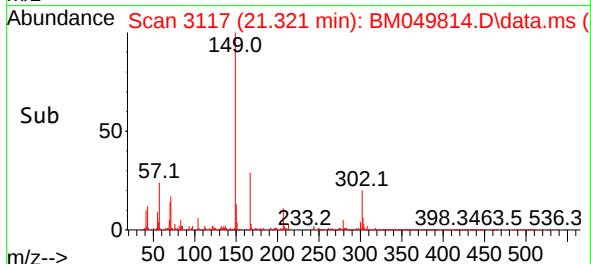
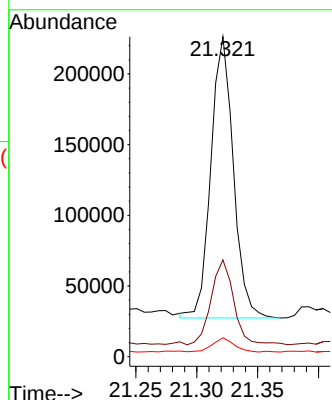
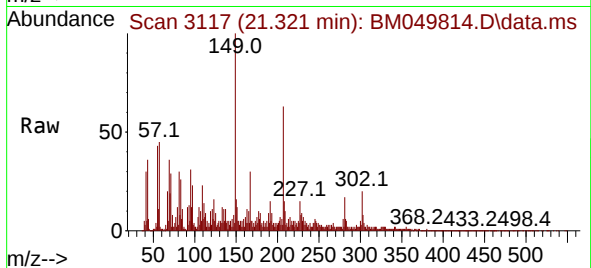
#84
Bis(2-ethylhexyl)phthalate
Concen: 3.993 ng
RT: 21.321 min Scan# 3117
Delta R.T. -0.018 min
Lab File: BM049814.D
Acq: 03 Apr 2025 20:30

Instrument :
BNA_M
ClientSampleId :
TT-2

Tgt Ion:149 Resp: 255190
Ion Ratio Lower Upper
149 100
167 30.3 22.9 34.3
279 5.9 3.5 5.3

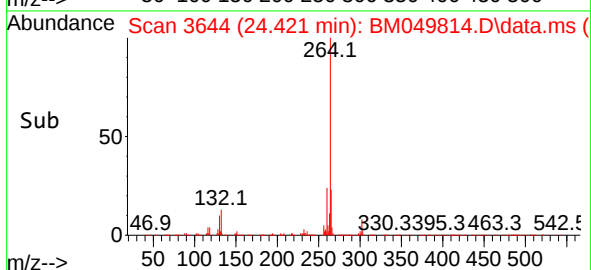
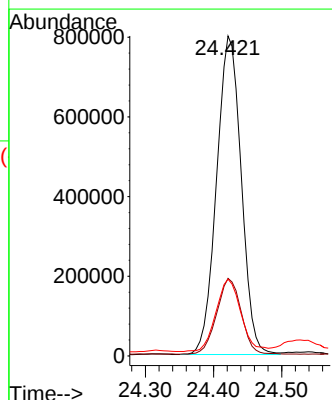
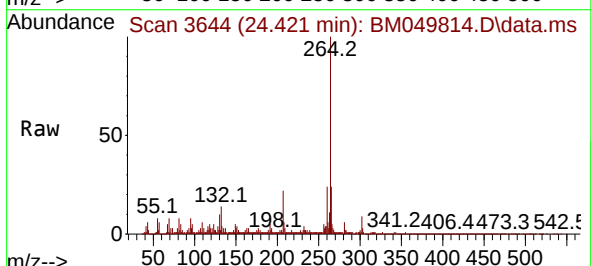
Manual Integrations
APPROVED

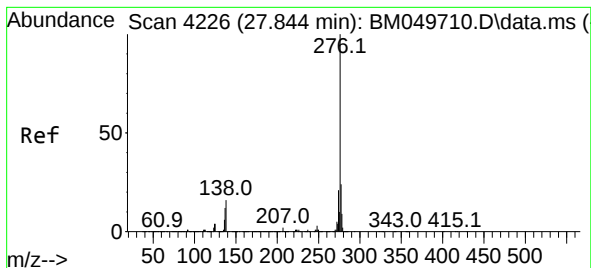
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025



#86
Perylene-d12
Concen: 20.000 ng
RT: 24.421 min Scan# 3644
Delta R.T. -0.018 min
Lab File: BM049814.D
Acq: 03 Apr 2025 20:30

Tgt Ion:264 Resp: 2014715
Ion Ratio Lower Upper
264 100
260 24.3 19.6 29.4
265 24.0 18.2 27.2





#87

Indeno(1,2,3-cd)pyrene

Concen: 17.333 ng

RT: 27.815 min Scan# 4221

Delta R.T. -0.029 min

Lab File: BM049814.D

Acq: 03 Apr 2025 20:30

Instrument :

BNA_M

ClientSampleId :

TT-2

Tgt Ion:276 Resp: 251350

Ion Ratio Lower Upper

276 100

138 18.0 16.3 24.5

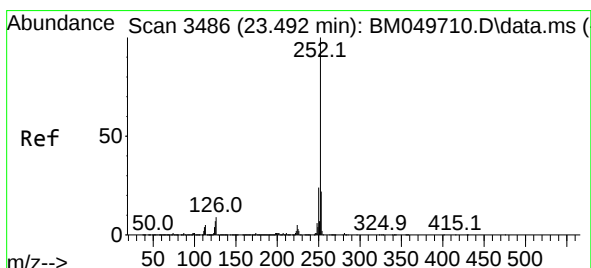
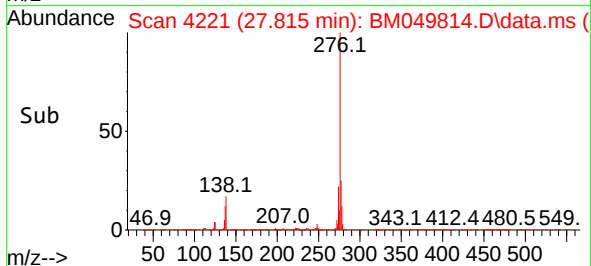
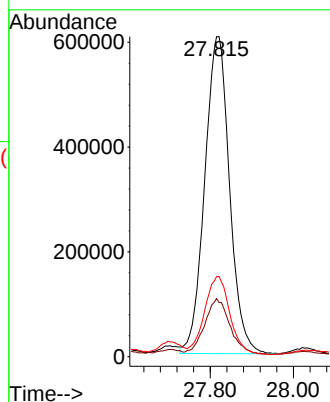
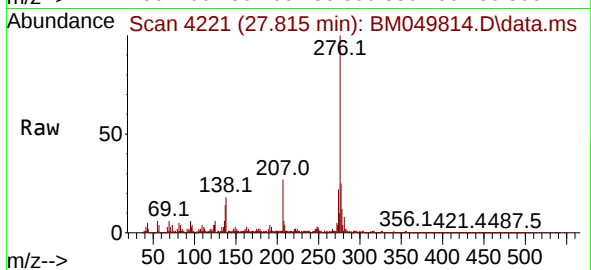
277 25.0 19.9 29.9

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/04/2025

Supervised By :Jagrut Upadhyay 04/04/2025



#88

Benzo(b)fluoranthene

Concen: 36.184 ng

RT: 23.474 min Scan# 3483

Delta R.T. -0.018 min

Lab File: BM049814.D

Acq: 03 Apr 2025 20:30

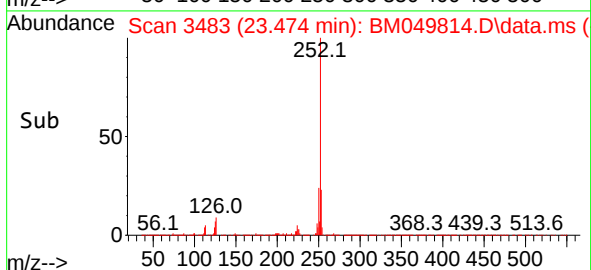
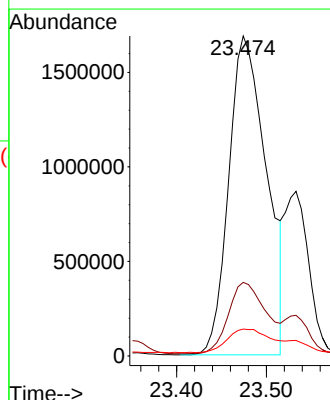
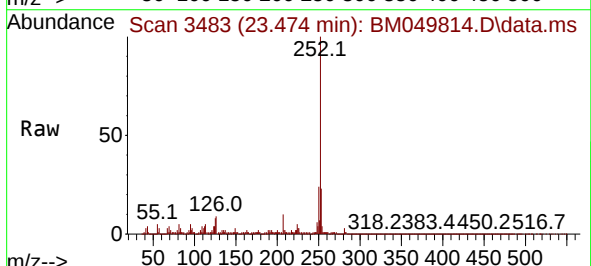
Tgt Ion:252 Resp: 4910102

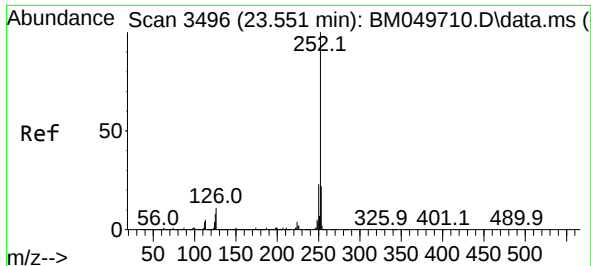
Ion Ratio Lower Upper

252 100

253 23.0 17.4 26.0

125 8.4 5.9 8.9





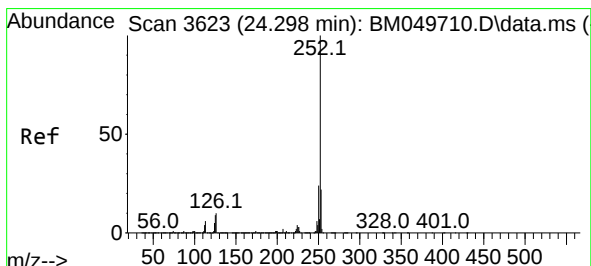
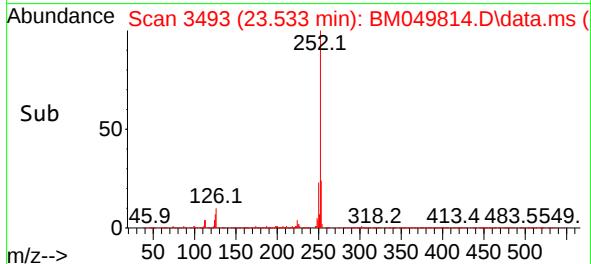
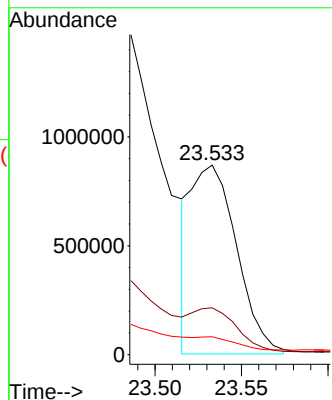
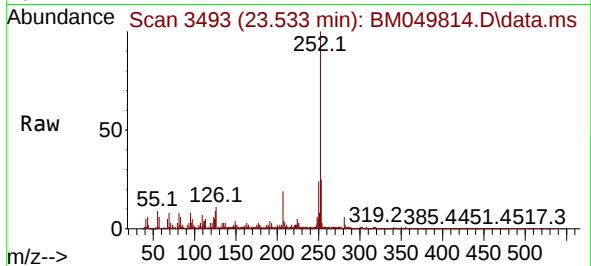
#89
Benzo(k)fluoranthene
Concen: 11.933 ng m
RT: 23.533 min Scan# 3496
Delta R.T. -0.018 min
Lab File: BM049814.D
Acq: 03 Apr 2025 20:30

Instrument :
BNA_M
ClientSampleId :
TT-2

Tgt Ion:252 Resp: 1593319
Ion Ratio Lower Upper
252 100
253 24.7 17.3 25.9
125 9.5 6.2 9.2

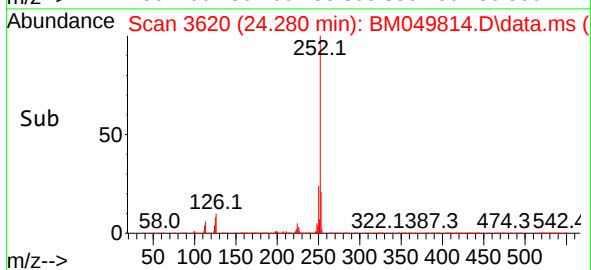
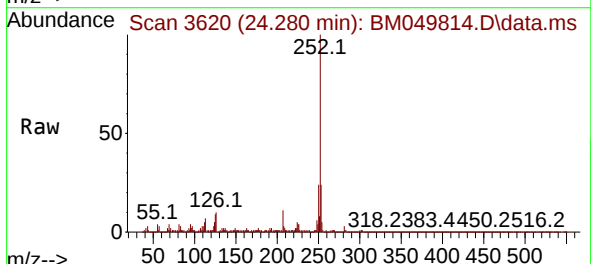
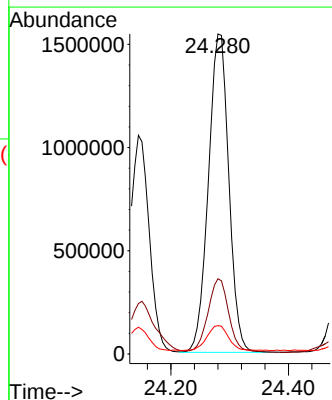
Manual Integrations
APPROVED

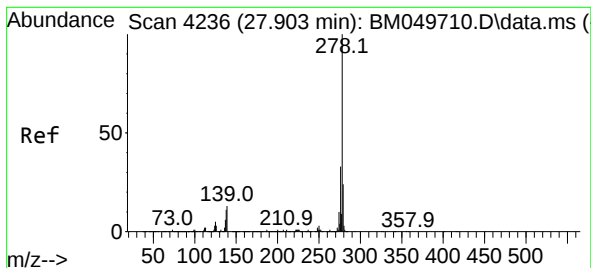
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025



#90
Benzo(a)pyrene
Concen: 32.596 ng
RT: 24.280 min Scan# 3620
Delta R.T. -0.018 min
Lab File: BM049814.D
Acq: 03 Apr 2025 20:30

Tgt Ion:252 Resp: 3715375
Ion Ratio Lower Upper
252 100
253 23.5 17.2 25.8
125 8.8 7.0 10.6





#91

Dibenzo(a,h)anthracene

Concen: 5.245 ng

RT: 27.862 min Scan# 41

Delta R.T. -0.041 min

Lab File: BM049814.D

Acq: 03 Apr 2025 20:30

Instrument :

BNA_M

ClientSampleId :

TT-2

Tgt Ion:278 Resp: 633680

Ion Ratio Lower Upper

278 100

139 17.3 10.1 15.1

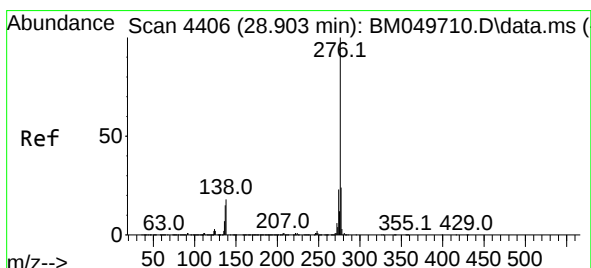
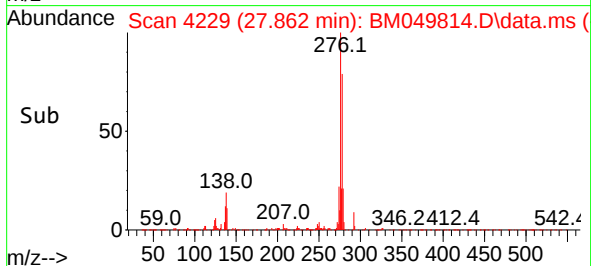
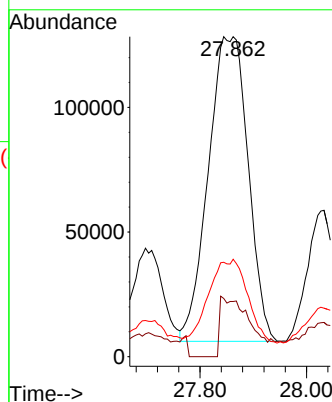
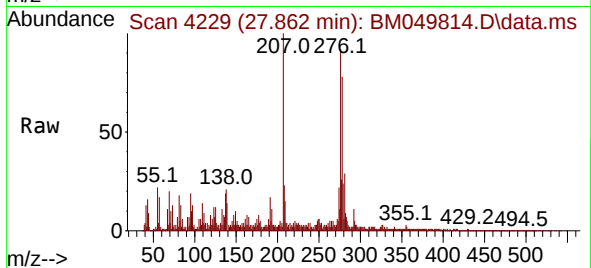
279 30.4 19.1 28.7

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/04/2025

Supervised By :Jagrut Upadhyay 04/04/2025



#92

Benzo(g,h,i)perylene

Concen: 22.073 ng

RT: 28.880 min Scan# 4402

Delta R.T. -0.023 min

Lab File: BM049814.D

Acq: 03 Apr 2025 20:30

Tgt Ion:276 Resp: 2686231

Ion Ratio Lower Upper

276 100

277 23.6 18.8 28.2

138 18.5 14.0 21.0

