

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082825\
 Data File : BP025616.D
 Acq On : 28 Aug 2025 18:01
 Operator : CG/JU
 Sample : Q2970-01
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 TP10

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 08/29/2025
 Supervised By :Jagrut Upadhyay 08/29/2025

Quant Time: Aug 29 02:27:22 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 14 18:14:31 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.778	152	177281	20.000	ng	-0.02
21) Naphthalene-d8	10.543	136	704298	20.000	ng	-0.02
39) Acenaphthene-d10	14.396	164	438397	20.000	ng	-0.01
64) Phenanthrene-d10	17.195	188	875597	20.000	ng	0.00
76) Chrysene-d12	21.636	240	979372	20.000	ng	-0.01
86) Perylene-d12	25.007	264	1121426	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.402	112	1371737	128.499	ng	0.00
7) Phenol-d6	6.961	99	1704841	124.565	ng	0.00
23) Nitrobenzene-d5	8.913	82	1098888	78.927	ng	-0.02
42) 2,4,6-Tribromophenol	15.913	330	768581	130.249	ng	0.00
45) 2-Fluorobiphenyl	13.001	172	2276560	70.971	ng	-0.02
79) Terphenyl-d14	19.925	244	3441124	64.284	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	17.237	178	833030	17.319	ng	100
72) Anthracene	17.325	178	193641	3.942	ng	97
73) Carbazole	17.613	167	99355	2.147	ng	98
75) Fluoranthene	19.325	202	933789	16.275	ng	98
78) Pyrene	19.695	202	769476	12.088	ng	99
81) Benzo(a)anthracene	21.613	228	452117	7.000	ng	99
83) Chrysene	21.683	228	403103m	6.664	ng	
87) Indeno(1,2,3-cd)pyrene	28.842	276	184270	2.241	ng	# 91
88) Benzo(b)fluoranthene	23.942	252	435135	6.580	ng	96
89) Benzo(k)fluoranthene	24.013	252	181728m	2.746	ng	
90) Benzo(a)pyrene	24.854	252	325291	5.053	ng	# 95
92) Benzo(g,h,i)perylene	30.024	276	151334	2.291	ng	98

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

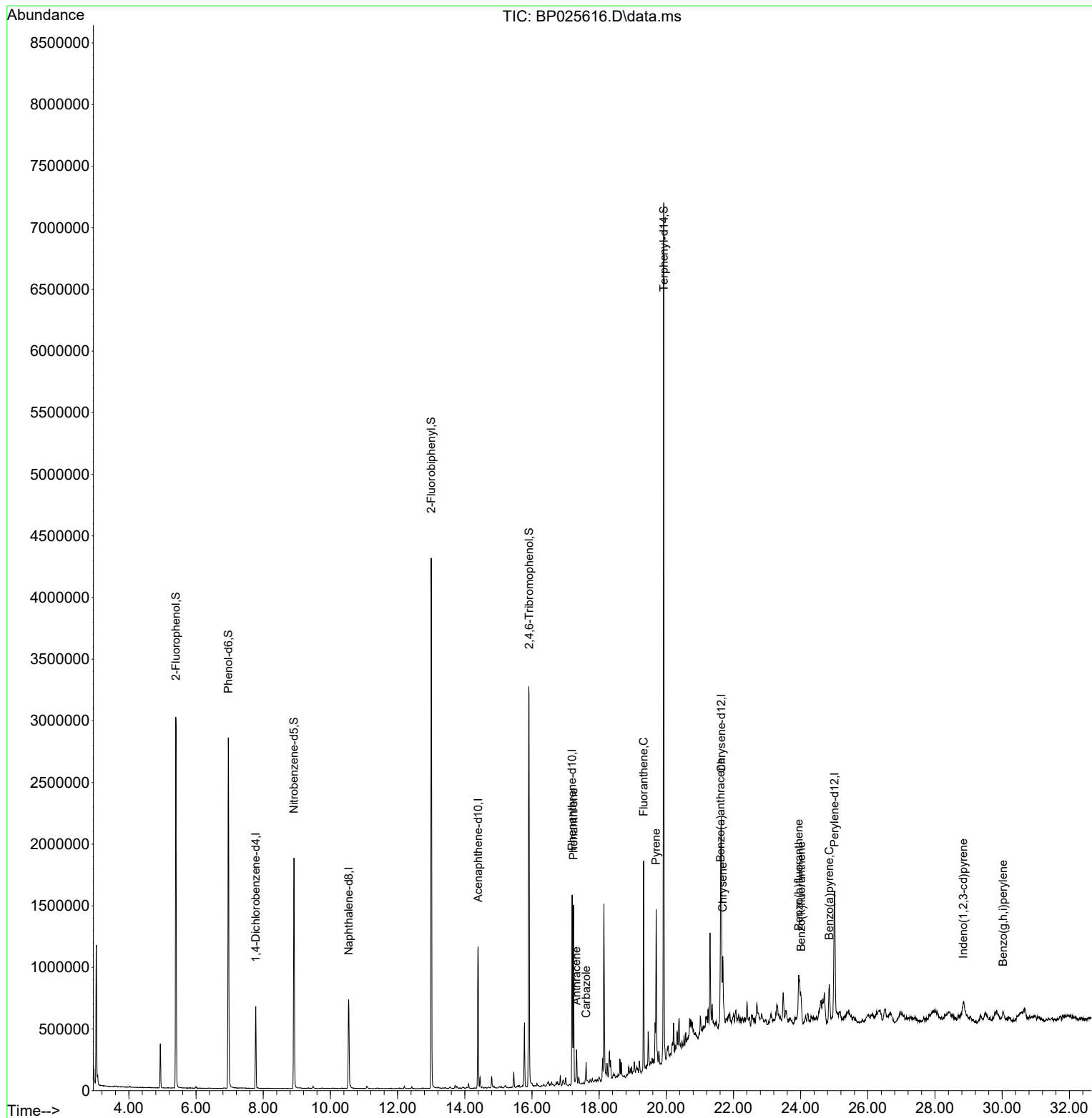
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP082825\
Data File : BP025616.D
Acq On : 28 Aug 2025 18:01
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ALS Vial : 8 Sample Multiplier: 1

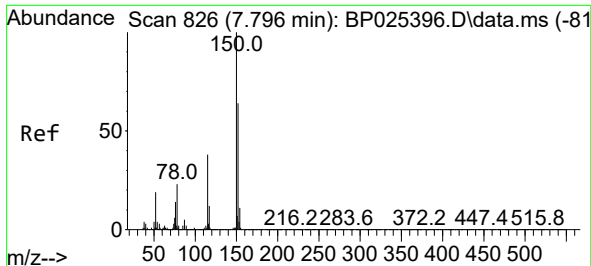
Instrument :
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
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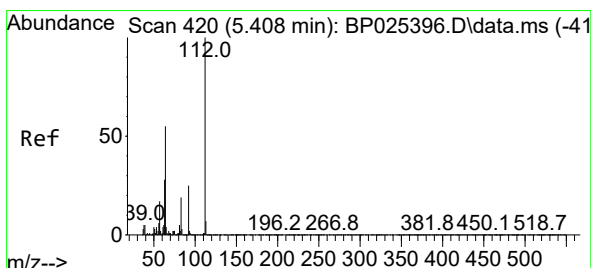
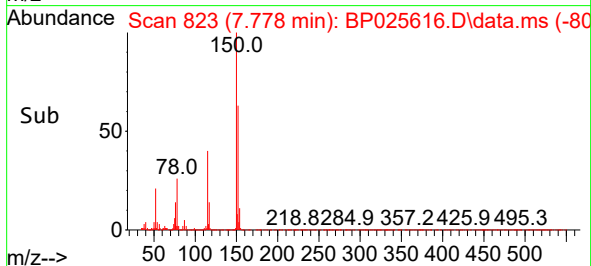
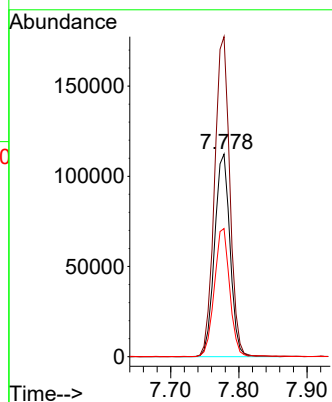
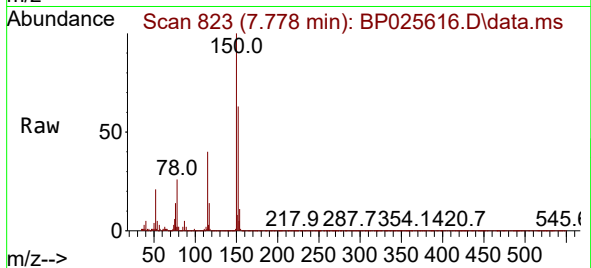
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.778 min Scan# 81
Delta R.T. -0.018 min
Lab File: BP025616.D
Acq: 28 Aug 2025 18:01

Instrument :
BNA_P
ClientSampleId :
TP10

Tgt Ion:152 Resp: 17728
Ion Ratio Lower Upper
152 100
150 158.0 125.9 188.9
115 63.3 48.5 72.7

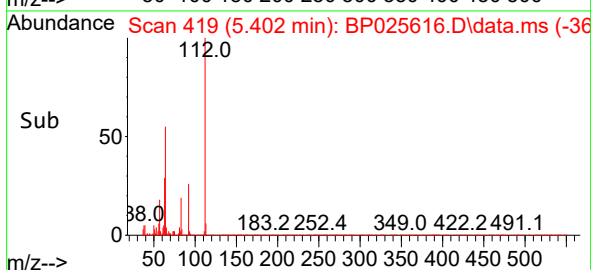
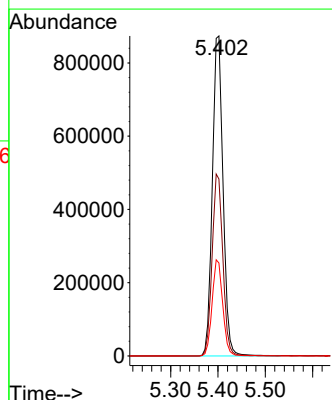
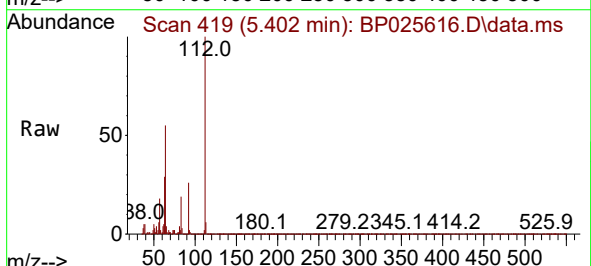
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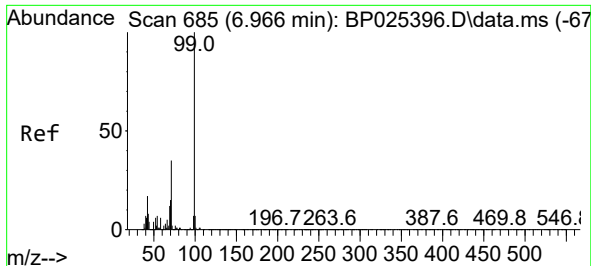
Reviewed By :Rahul Chavli 08/29/2025
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#5
2-Fluorophenol
Concen: 128.499 ng
RT: 5.402 min Scan# 419
Delta R.T. -0.006 min
Lab File: BP025616.D
Acq: 28 Aug 2025 18:01

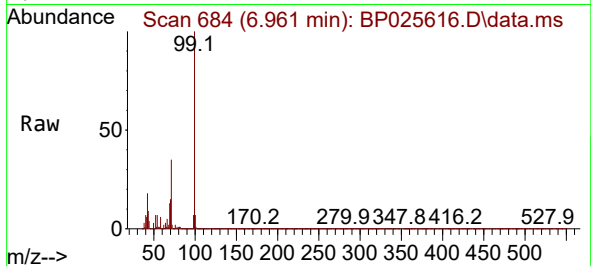
Tgt Ion:112 Resp: 1371737
Ion Ratio Lower Upper
112 100
64 55.3 43.8 65.8
63 29.0 22.7 34.1





#7
Phenol-d6
Concen: 124.565 ng
RT: 6.961 min Scan# 61
Delta R.T. -0.006 min
Lab File: BP025616.D
Acq: 28 Aug 2025 18:01

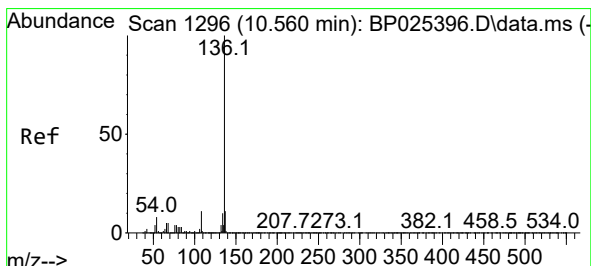
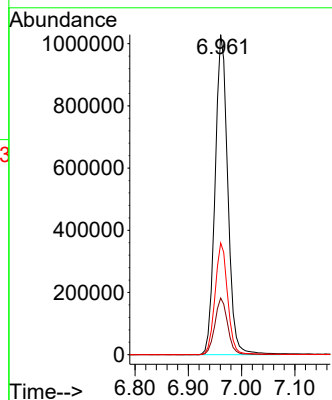
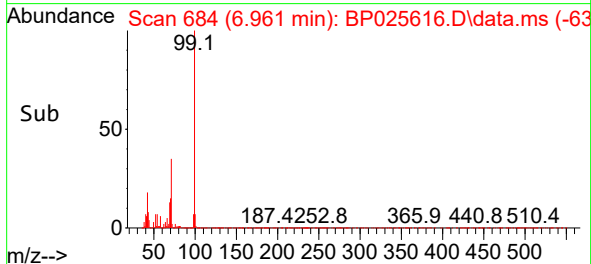
Instrument :
BNA_P
ClientSampleId :
TP10



Tgt Ion: 99 Resp: 170484
Ion Ratio Lower Upper
99 100
42 17.7 13.7 20.5
71 34.9 28.2 42.4

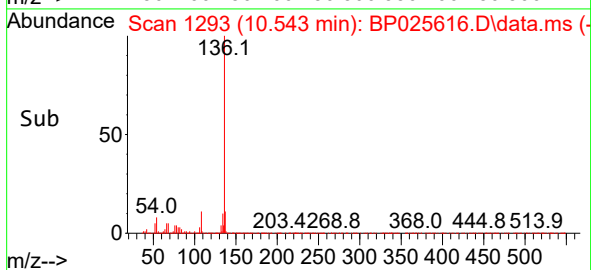
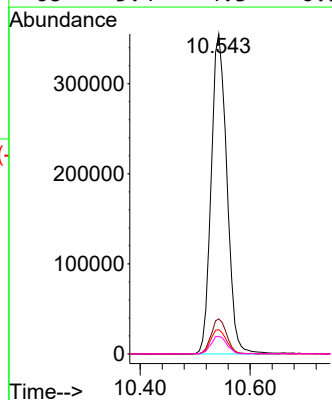
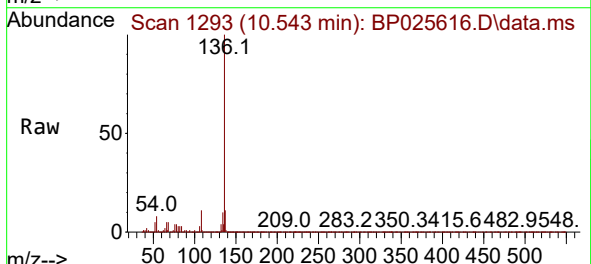
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#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.543 min Scan# 1293
Delta R.T. -0.017 min
Lab File: BP025616.D
Acq: 28 Aug 2025 18:01

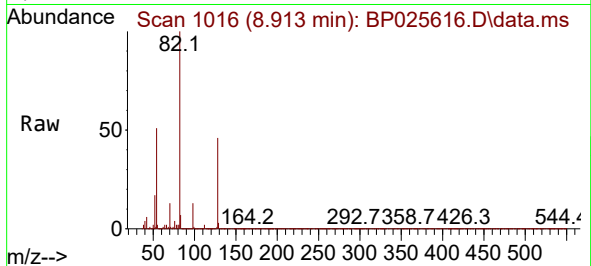
Tgt Ion:136 Resp: 704298
Ion Ratio Lower Upper
136 100
137 11.0 9.2 13.8
54 7.6 6.0 9.0
68 5.4 4.3 6.5





#23
Nitrobenzene-d5
Concen: 78.927 ng
RT: 8.913 min Scan# 1016
Delta R.T. -0.023 min
Lab File: BP025616.D
Acq: 28 Aug 2025 18:01

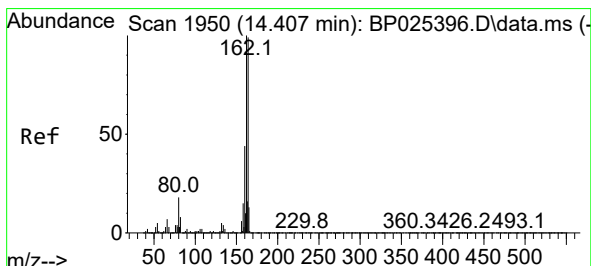
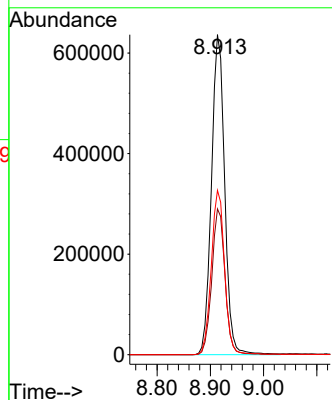
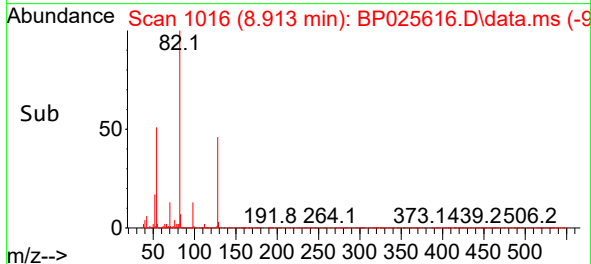
Instrument :
BNA_P
ClientSampleId :
TP10



Tgt Ion: 82 Resp: 109888
Ion Ratio Lower Upper
82 100
128 45.6 37.7 56.5
54 51.4 39.8 59.6

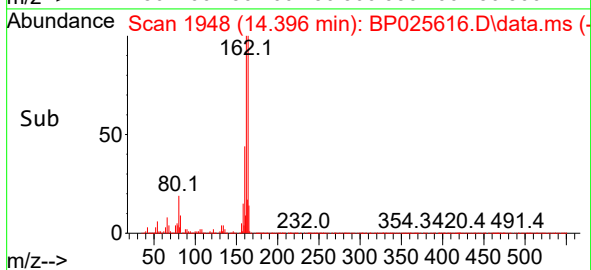
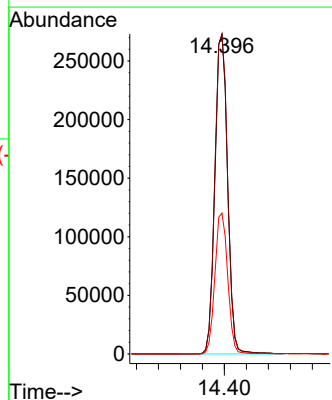
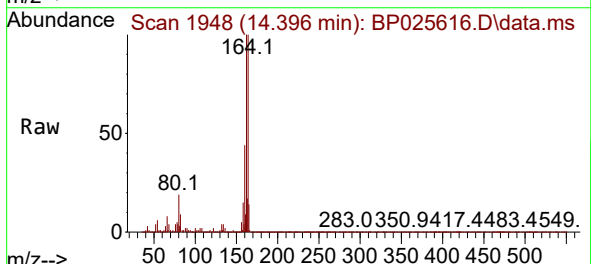
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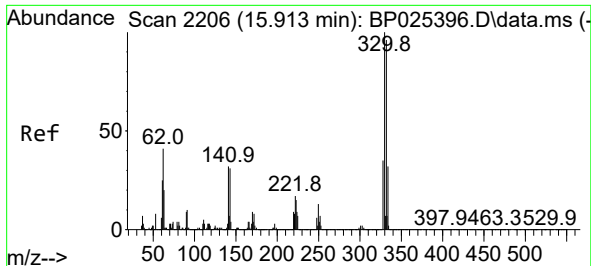
Reviewed By :Rahul Chavli 08/29/2025
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#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.396 min Scan# 1948
Delta R.T. -0.012 min
Lab File: BP025616.D
Acq: 28 Aug 2025 18:01

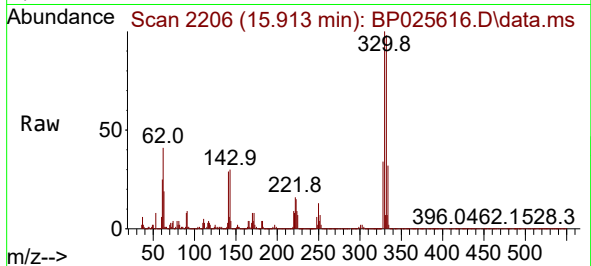
Tgt Ion:164 Resp: 438397
Ion Ratio Lower Upper
164 100
162 100.1 81.0 121.6
160 44.1 35.4 53.2





#42
2,4,6-Tribromophenol
Concen: 130.249 ng
RT: 15.913 min Scan# 21
Delta R.T. 0.000 min
Lab File: BP025616.D
Acq: 28 Aug 2025 18:01

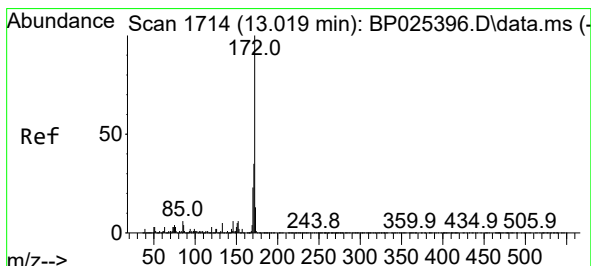
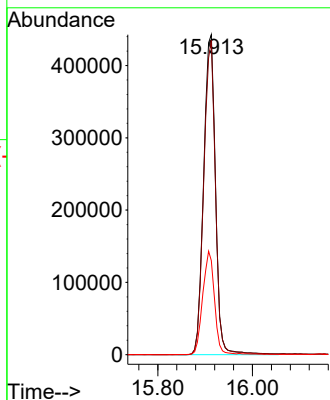
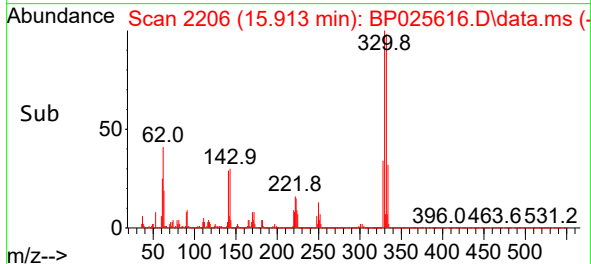
Instrument :
BNA_P
ClientSampleId :
TP10



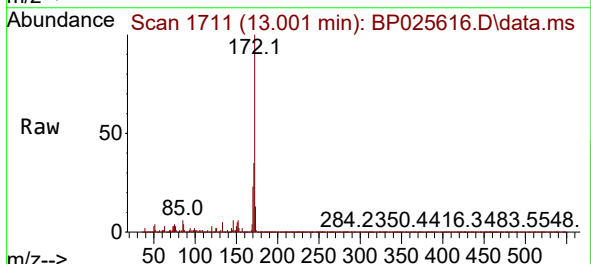
Tgt Ion:330 Resp: 76858
Ion Ratio Lower Upper
330 100
332 97.1 77.3 115.9
141 31.9 26.6 39.8

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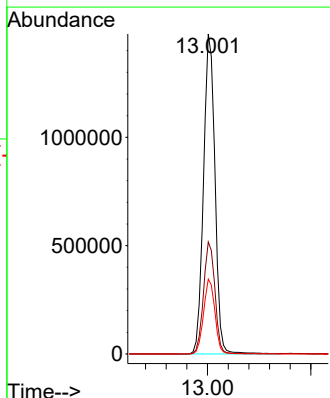
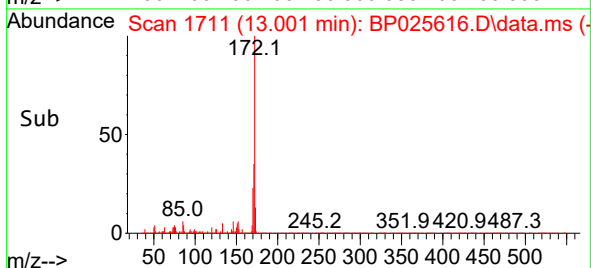
Reviewed By :Rahul Chavli 08/29/2025
Supervised By :Jagrut Upadhyay 08/29/2025

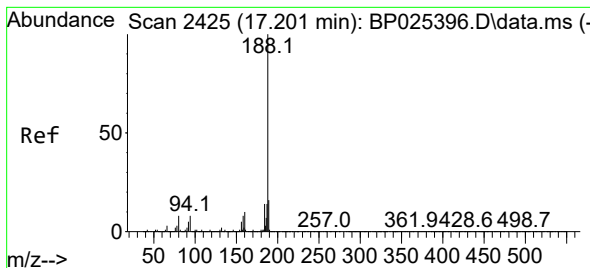


#45
2-Fluorobiphenyl
Concen: 70.971 ng
RT: 13.001 min Scan# 1711
Delta R.T. -0.017 min
Lab File: BP025616.D
Acq: 28 Aug 2025 18:01



Tgt Ion:172 Resp: 2276560
Ion Ratio Lower Upper
172 100
171 35.0 28.1 42.1
170 23.4 18.6 28.0





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.195 min Scan# 2424

Delta R.T. -0.006 min

Lab File: BP025616.D

Acq: 28 Aug 2025 18:01

Instrument :

BNA_P

ClientSampleId :

TP10

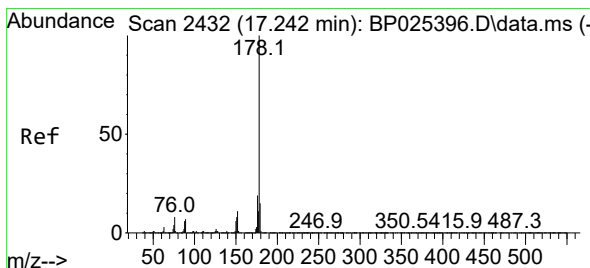
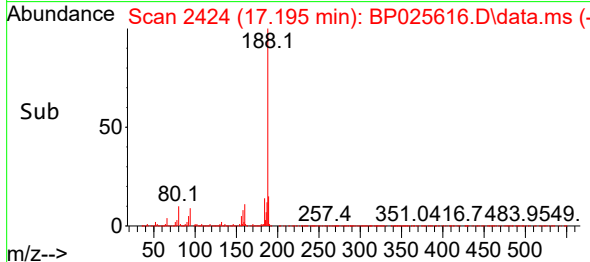
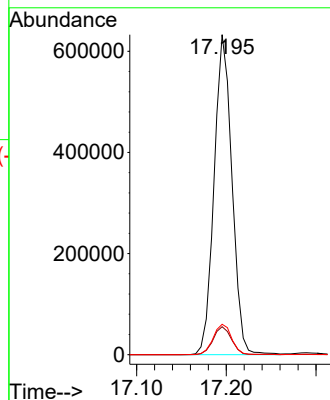
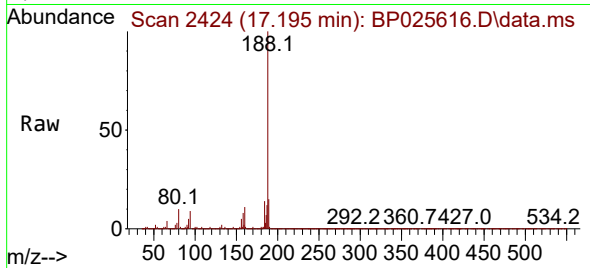
Tgt Ion:188 Resp: 875597
 Ion Ratio Lower Upper
 188 100
 94 8.8 6.6 10.0
 80 9.5 6.7 10.1

Manual Integrations

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#71

Phenanthrene

Concen: 17.319 ng

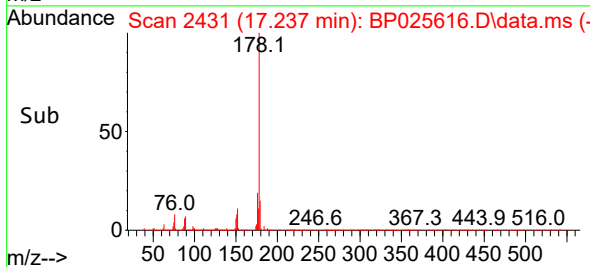
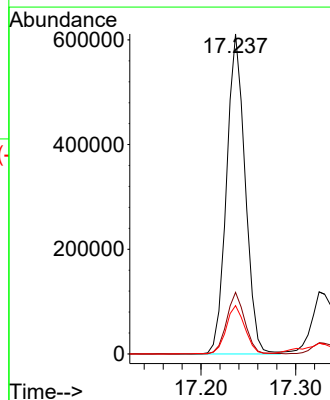
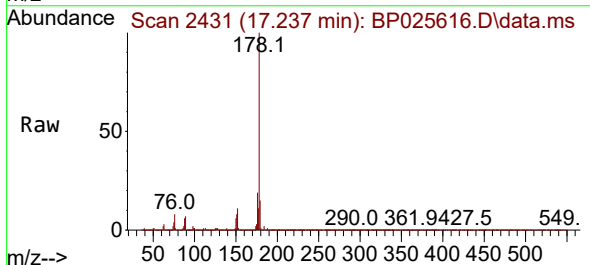
RT: 17.237 min Scan# 2431

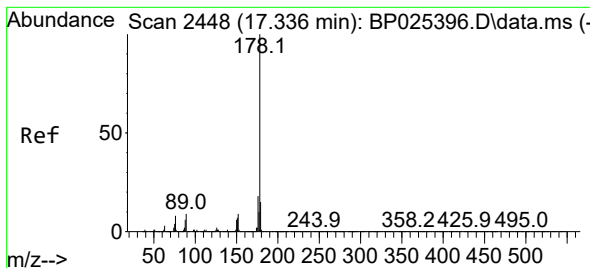
Delta R.T. -0.006 min

Lab File: BP025616.D

Acq: 28 Aug 2025 18:01

Tgt Ion:178 Resp: 833030
 Ion Ratio Lower Upper
 178 100
 176 19.3 15.5 23.3
 179 15.1 12.2 18.4





#72

Anthracene

Concen: 3.942 ng

RT: 17.325 min Scan# 2446

Delta R.T. -0.012 min

Lab File: BP025616.D

Acq: 28 Aug 2025 18:01

Instrument :

BNA_P

ClientSampleId :

TP10

Tgt Ion:178 Resp: 19364

Ion Ratio Lower Upper

178 100

176 17.9 14.7 22.1

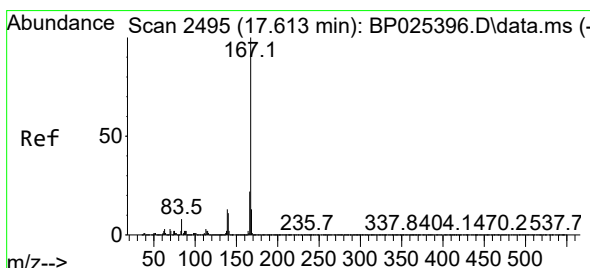
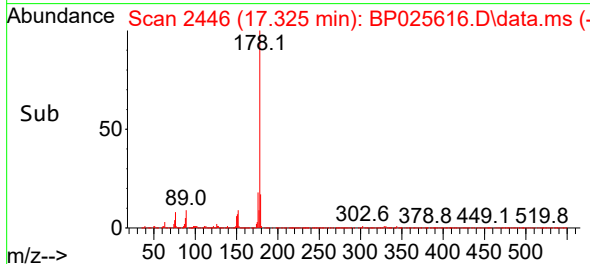
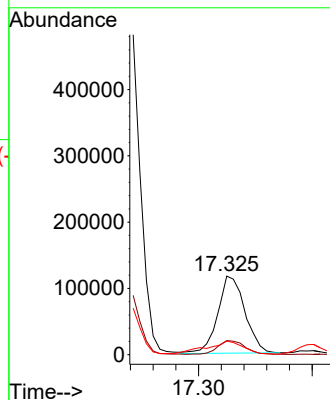
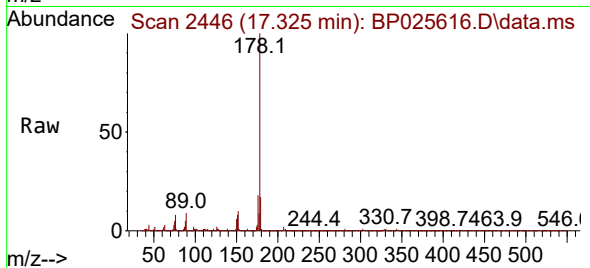
179 17.4 12.2 18.2

Manual Integrations

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#73

Carbazole

Concen: 2.147 ng

RT: 17.613 min Scan# 2495

Delta R.T. 0.000 min

Lab File: BP025616.D

Acq: 28 Aug 2025 18:01

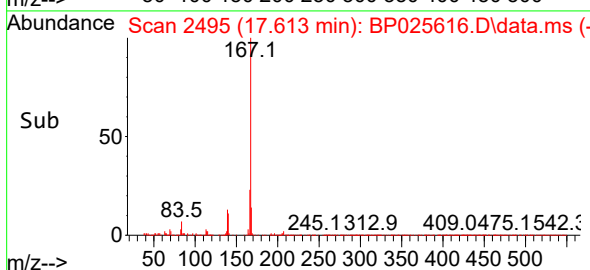
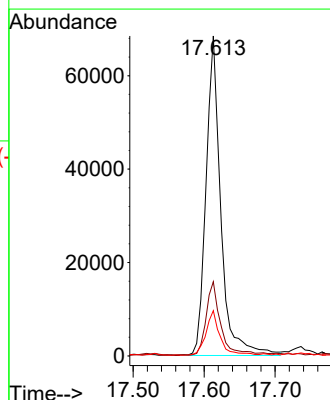
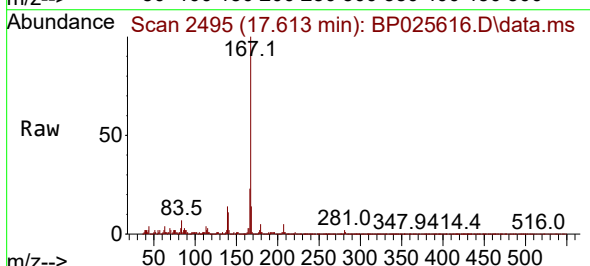
Tgt Ion:167 Resp: 99355

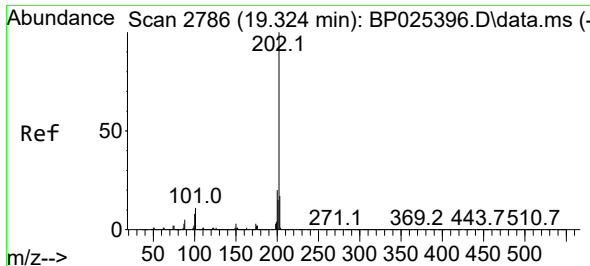
Ion Ratio Lower Upper

167 100

166 23.2 17.5 26.3

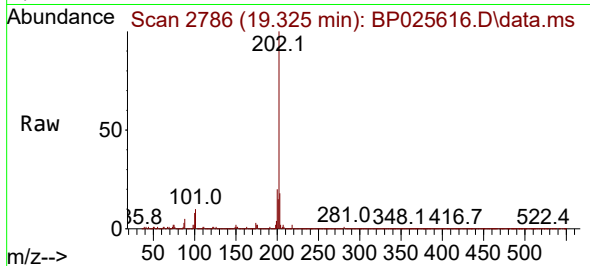
139 14.1 10.6 16.0





#75
Fluoranthene
Concen: 16.275 ng
RT: 19.325 min Scan# 21
Delta R.T. 0.000 min
Lab File: BP025616.D
Acq: 28 Aug 2025 18:01

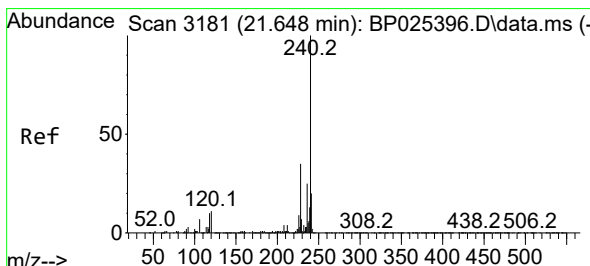
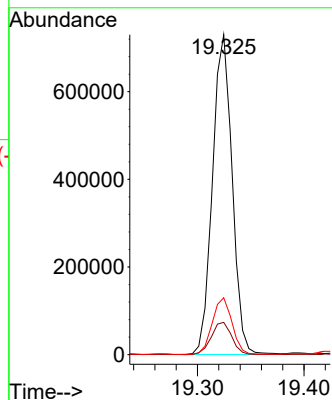
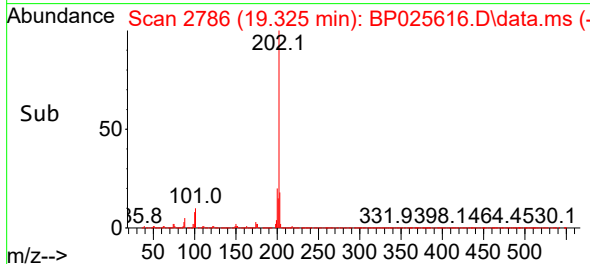
Instrument :
BNA_P
ClientSampleId :
TP10



Tgt Ion:202 Resp: 933789
Ion Ratio Lower Upper
202 100
101 10.1 0.0 31.1
203 17.8 0.0 37.3

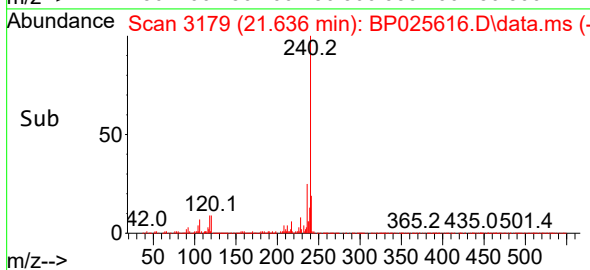
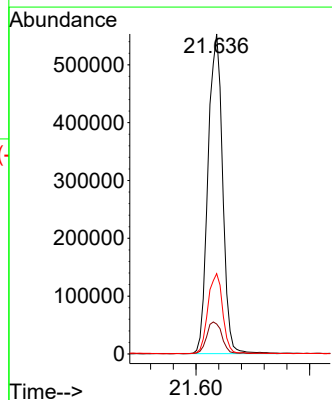
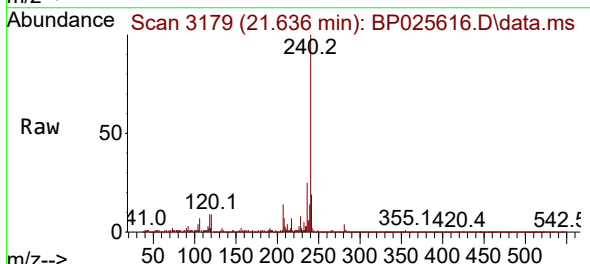
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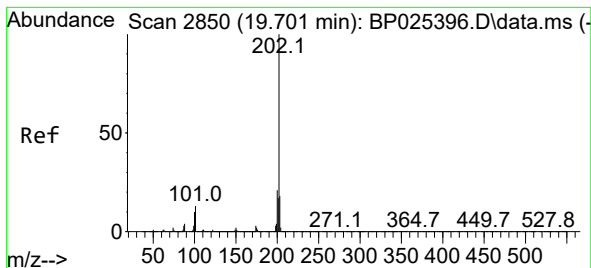
Reviewed By :Rahul Chavli 08/29/2025
Supervised By :Jagrut Upadhyay 08/29/2025



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.636 min Scan# 3179
Delta R.T. -0.012 min
Lab File: BP025616.D
Acq: 28 Aug 2025 18:01

Tgt Ion:240 Resp: 979372
Ion Ratio Lower Upper
240 100
120 9.4 8.9 13.3
236 25.1 19.8 29.8





#78

Pyrene

Concen: 12.088 ng

RT: 19.695 min Scan# 2849

Delta R.T. -0.006 min

Lab File: BP025616.D

Acq: 28 Aug 2025 18:01

Instrument :

BNA_P

ClientSampleId :

TP10

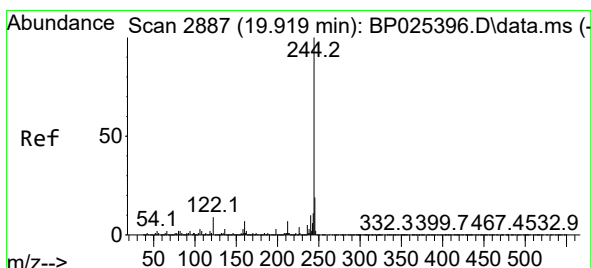
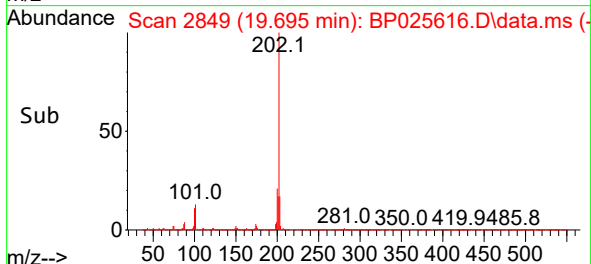
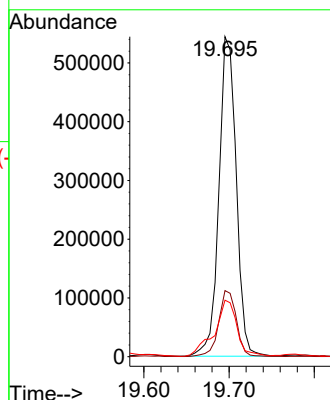
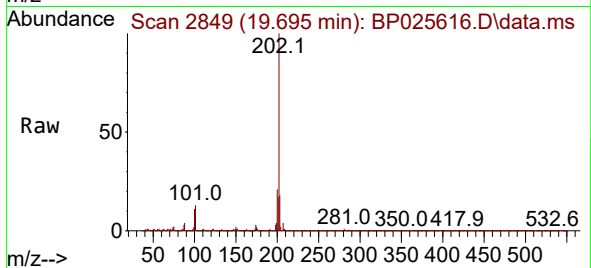
Tgt Ion:202 Resp: 769470
 Ion Ratio Lower Upper
 202 100
 200 20.6 16.9 25.3
 203 17.7 14.2 21.2

Manual Integrations

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Supervised By :Jagrut Upadhyay 08/29/2025



#79

Terphenyl-d14

Concen: 64.284 ng

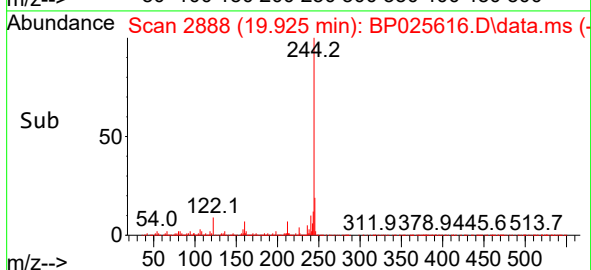
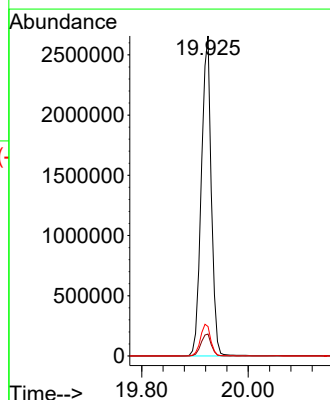
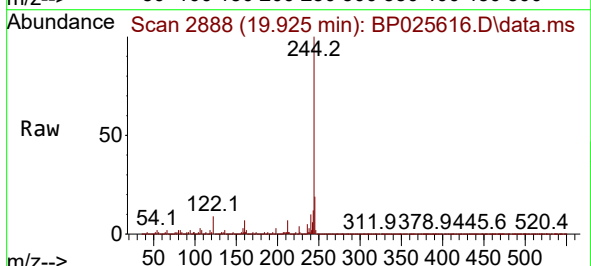
RT: 19.925 min Scan# 2888

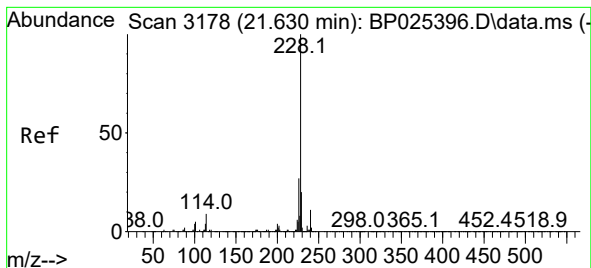
Delta R.T. 0.006 min

Lab File: BP025616.D

Acq: 28 Aug 2025 18:01

Tgt Ion:244 Resp: 3441124
 Ion Ratio Lower Upper
 244 100
 212 6.8 5.8 8.6
 122 9.2 7.4 11.2





#81

Benzo(a)anthracene

Concen: 7.000 ng

RT: 21.613 min Scan# 3175

Delta R.T. -0.017 min

Lab File: BP025616.D

Acq: 28 Aug 2025 18:01

Instrument :

BNA_P

ClientSampleId :

TP10

Tgt Ion:228 Resp: 45211

Ion Ratio Lower Upper

228 100

226 26.8 21.7 32.5

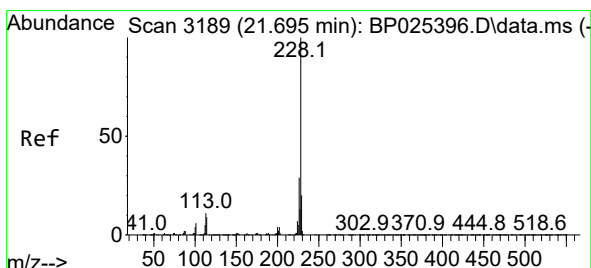
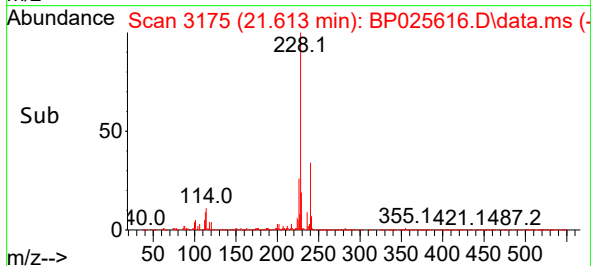
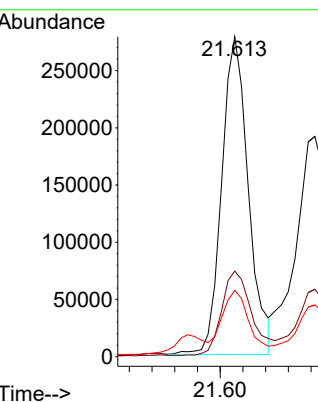
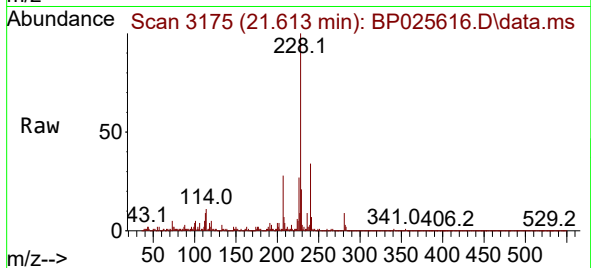
229 20.7 15.6 23.4

Manual Integrations

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Reviewed By :Rahul Chavli 08/29/2025

Supervised By :Jagrut Upadhyay 08/29/2025



#83

Chrysene

Concen: 6.664 ng m

RT: 21.683 min Scan# 3187

Delta R.T. -0.012 min

Lab File: BP025616.D

Acq: 28 Aug 2025 18:01

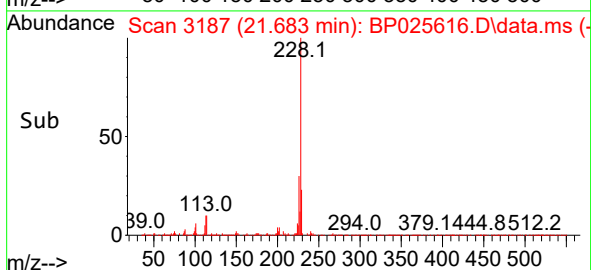
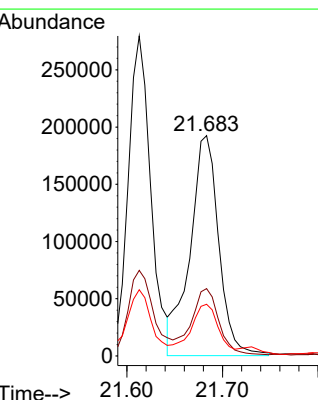
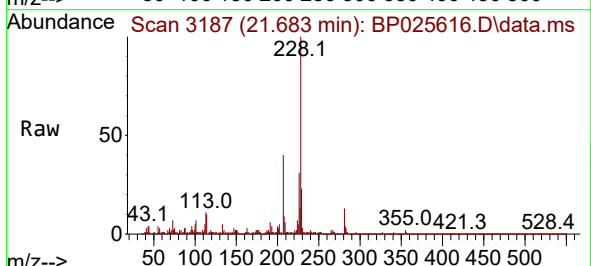
Tgt Ion:228 Resp: 403103

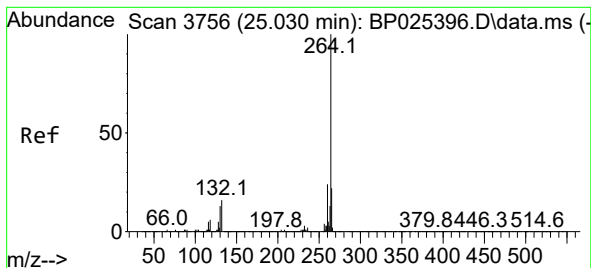
Ion Ratio Lower Upper

228 100

226 30.6 23.2 34.8

229 23.5 15.6 23.4#





#86

Perylene-d12

Concen: 20.000 ng

RT: 25.007 min Scan# 31

Delta R.T. -0.023 min

Lab File: BP025616.D

Acq: 28 Aug 2025 18:01

Instrument :

BNA_P

ClientSampleId :

TP10

Tgt Ion:264 Resp: 112142

Ion Ratio Lower Upper

264 100

260 22.8 19.3 28.9

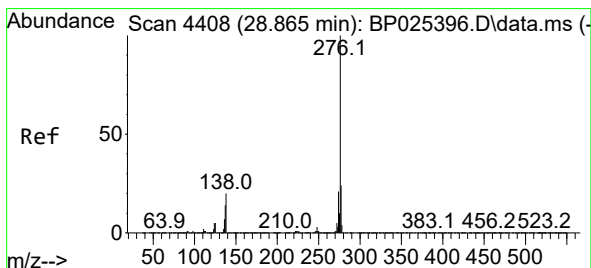
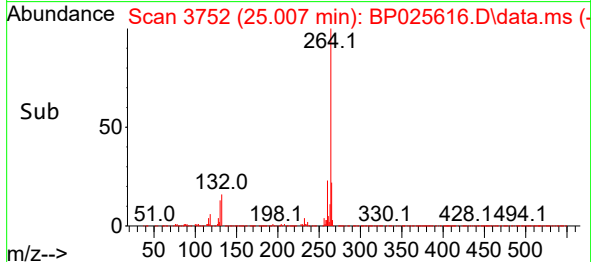
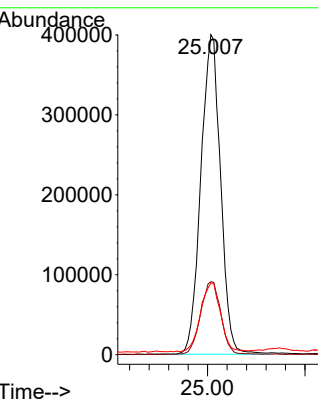
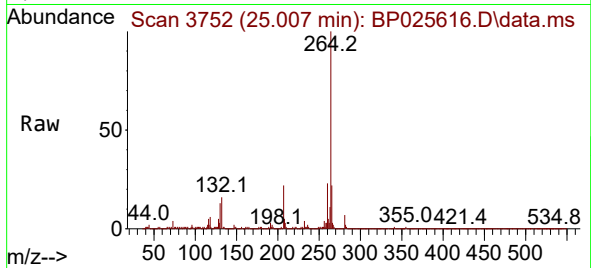
265 22.4 17.4 26.0

Manual Integrations

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Reviewed By :Rahul Chavli 08/29/2025

Supervised By :Jagrut Upadhyay 08/29/2025



#87

Indeno(1,2,3-cd)pyrene

Concen: 2.241 ng

RT: 28.842 min Scan# 4404

Delta R.T. -0.023 min

Lab File: BP025616.D

Acq: 28 Aug 2025 18:01

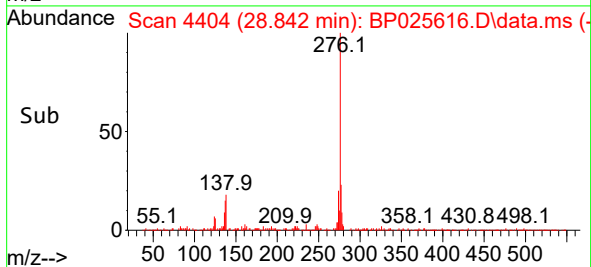
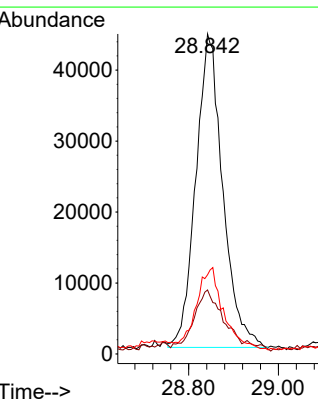
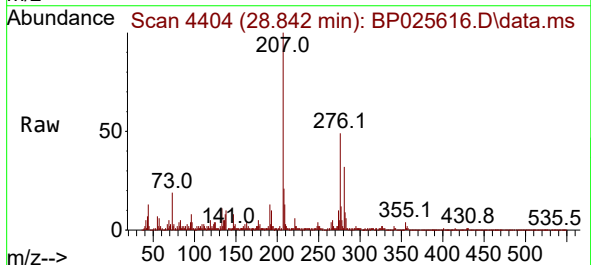
Tgt Ion:276 Resp: 184270

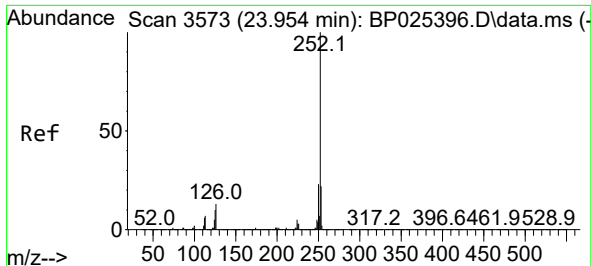
Ion Ratio Lower Upper

276 100

138 18.9 12.9 19.3

277 26.6 17.0 25.6#





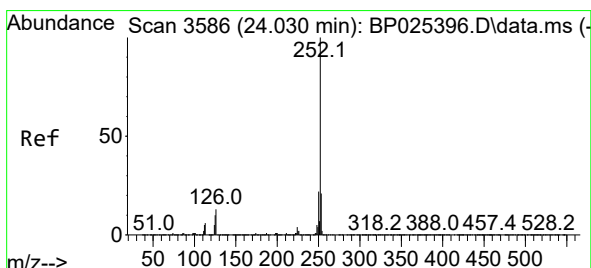
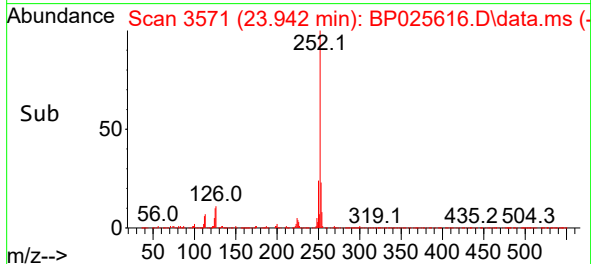
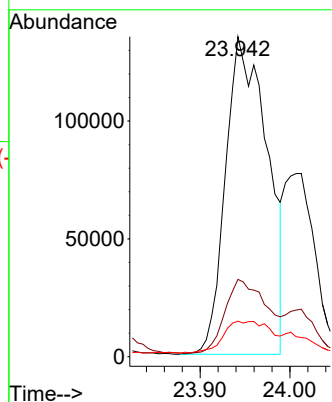
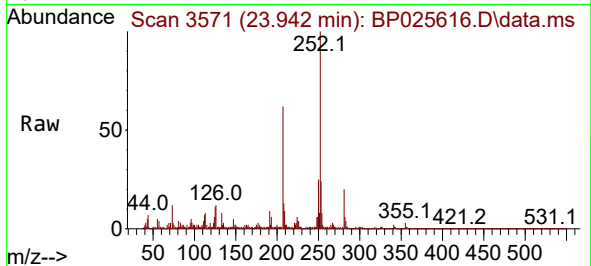
#88
Benzo(b)fluoranthene
Concen: 6.580 ng
RT: 23.942 min Scan# 3571
Delta R.T. -0.012 min
Lab File: BP025616.D
Acq: 28 Aug 2025 18:01

Instrument :
BNA_P
ClientSampleId :
TP10

Tgt Ion:252 Resp: 43513
Ion Ratio Lower Upper
252 100
253 24.2 17.7 26.5
125 11.1 7.9 11.9

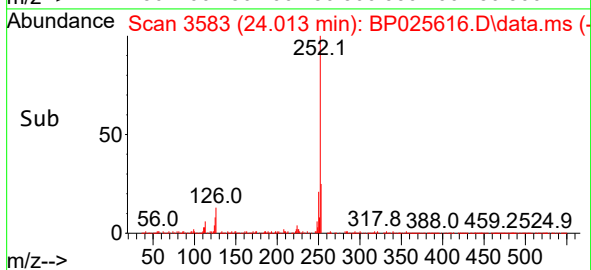
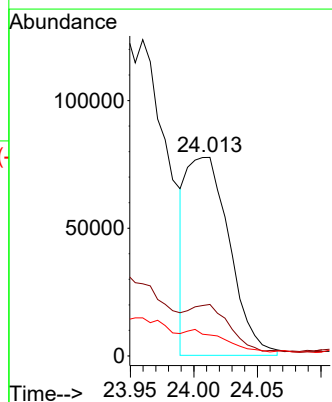
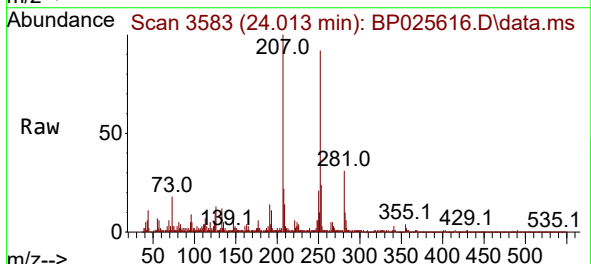
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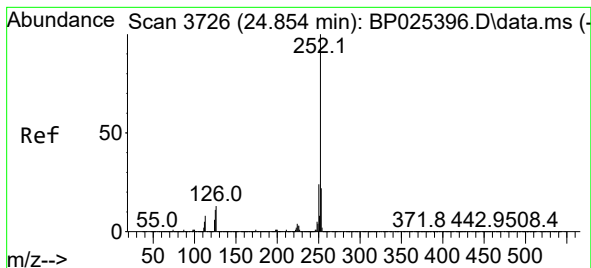
Reviewed By :Rahul Chavli 08/29/2025
Supervised By :Jagrut Upadhyay 08/29/2025



#89
Benzo(k)fluoranthene
Concen: 2.746 ng m
RT: 24.013 min Scan# 3583
Delta R.T. -0.017 min
Lab File: BP025616.D
Acq: 28 Aug 2025 18:01

Tgt Ion:252 Resp: 181728
Ion Ratio Lower Upper
252 100
253 26.0 17.1 25.7#
125 10.5 7.8 11.6





#90

Benzo(a)pyrene

Concen: 5.053 ng

RT: 24.854 min Scan# 31

Delta R.T. 0.000 min

Lab File: BP025616.D

Acq: 28 Aug 2025 18:01

Instrument :

BNA_P

ClientSampleId :

TP10

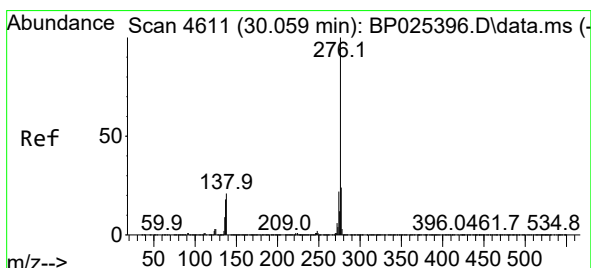
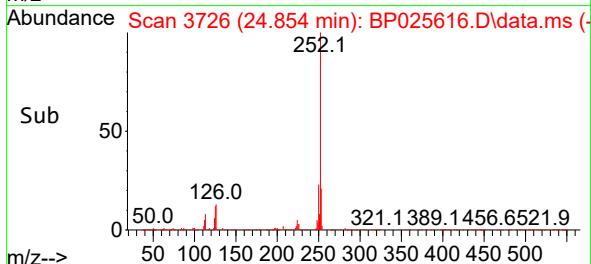
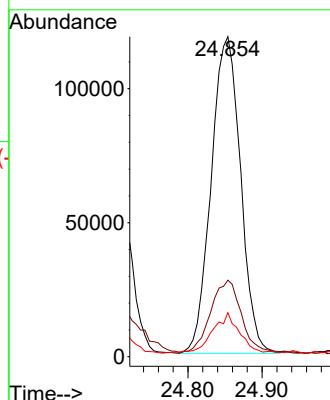
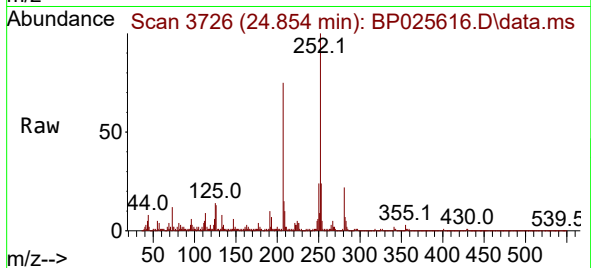
Tgt Ion:252 Resp: 32529
 Ion Ratio Lower Upper
 252 100
 253 23.9 17.5 26.3
 125 13.8 8.7 13.1

Manual Integrations

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Reviewed By :Rahul Chavli 08/29/2025

Supervised By :Jagrut Upadhyay 08/29/2025



#92

Benzo(g,h,i)perylene

Concen: 2.291 ng

RT: 30.024 min Scan# 4605

Delta R.T. -0.035 min

Lab File: BP025616.D

Acq: 28 Aug 2025 18:01

Tgt Ion:276 Resp: 151334
 Ion Ratio Lower Upper
 276 100
 277 25.0 19.4 29.0
 138 19.9 16.7 25.1

