

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072225\
 Data File : BP025210.D
 Acq On : 22 Jul 2025 11:51
 Operator : CG/JU
 Sample : Q2639-05
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 OU4-TS-40-071725

Quant Time: Jul 22 12:58:21 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 22 02:55:21 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/23/2025
 Supervised By :Jagrut Upadhyay 07/23/2025

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.437	152	870169	20.000	ng	0.00
21) Naphthalene-d8	10.172	136	3344284	20.000	ng	0.00
39) Acenaphthene-d10	14.078	164	1975954	20.000	ng	0.00
64) Phenanthrene-d10	16.889	188	3638856	20.000	ng	0.00
76) Chrysene-d12	21.324	240	3558679	20.000	ng	0.00
86) Perylene-d12	24.460	264	4138303	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.108	112	3955332	76.802	ng	0.00
7) Phenol-d6	6.637	99	4880822	76.520	ng	0.00
23) Nitrobenzene-d5	8.566	82	3022658	50.229	ng	0.00
42) 2,4,6-Tribromophenol	15.607	330	2274627	78.086	ng	0.00
45) 2-Fluorobiphenyl	12.678	172	7321746	52.240	ng	0.00
79) Terphenyl-d14	19.660	244	9342690	51.825	ng	0.00
Target Compounds						Qvalue
49) Acenaphthylene	13.795	152	540510	2.988	ng	100
71) Phenanthrene	16.931	178	620121	3.160	ng	100
72) Anthracene	17.036	178	420458	2.127	ng	98
75) Fluoranthene	19.036	202	1872149	8.105	ng	99
78) Pyrene	19.413	202	2367877	10.791	ng	98
81) Benzo(a)anthracene	21.307	228	1620605m	7.211	ng	
83) Chrysene	21.366	228	1784185	8.505	ng	97
87) Indeno(1,2,3-cd)pyrene	27.971	276	1259500	4.165	ng	# 95
88) Benzo(b)fluoranthene	23.460	252	2032653	8.581	ng	# 96
89) Benzo(k)fluoranthene	23.524	252	671504m	2.871	ng	
90) Benzo(a)pyrene	24.289	252	1794768	7.766	ng	97
92) Benzo(g,h,i)perylene	29.059	276	1256583	5.182	ng	96

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

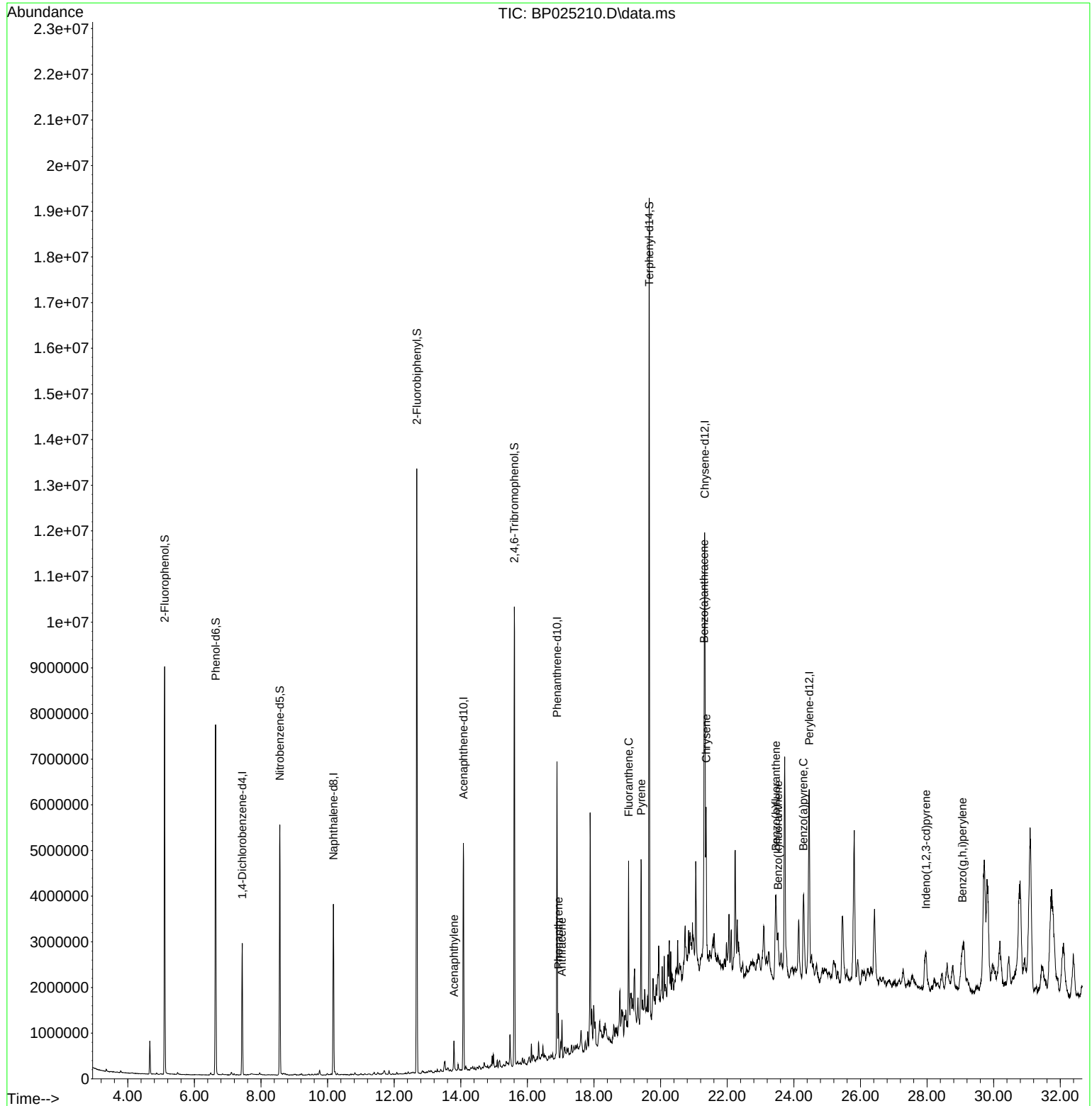
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072225\
Data File : BP025210.D
Acq On : 22 Jul 2025 11:51
Operator : CG/JU
Sample : Q2639-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

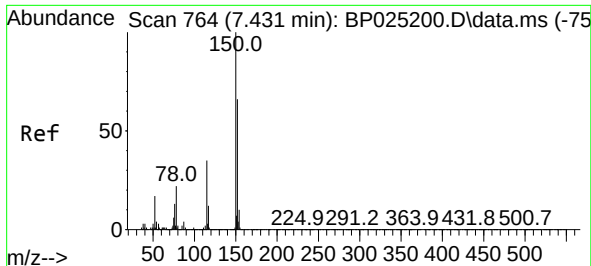
Instrument :
BNA_P
ClientSampleId :
OU4-TS-40-071725

Quant Time: Jul 22 12:58:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 22 02:55:21 2025
Response via : Initial Calibration

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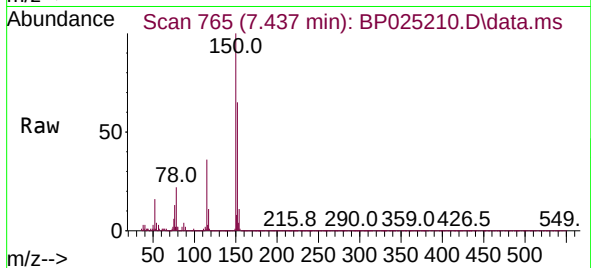
Reviewed By :Rahul Chavli 07/23/2025
Supervised By :Jagrut Upadhyay 07/23/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.437 min Scan# 70
Delta R.T. 0.006 min
Lab File: BP025210.D
Acq: 22 Jul 2025 11:51

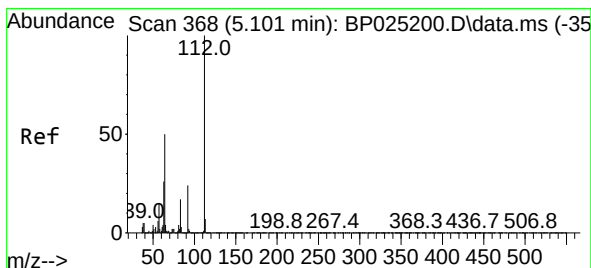
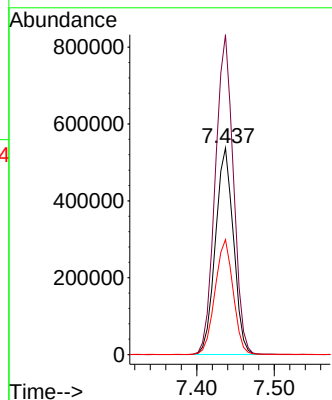
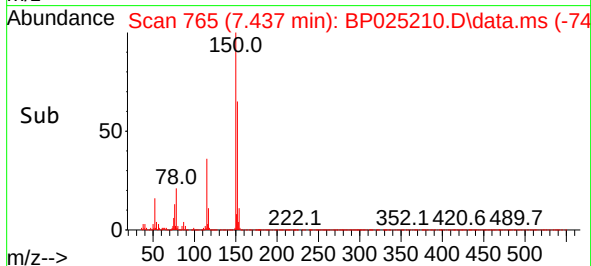
Instrument :
BNA_P
ClientSampleId :
OU4-TS-40-071725



Tgt Ion:152 Resp: 870169
Ion Ratio Lower Upper
152 100
150 154.8 121.9 182.9
115 55.6 43.0 64.6

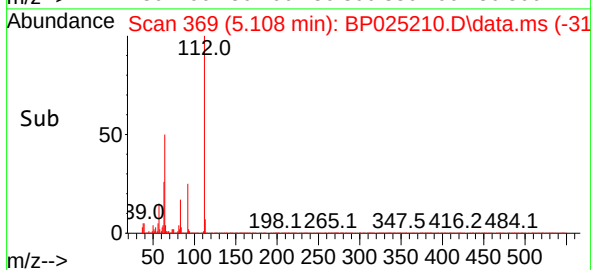
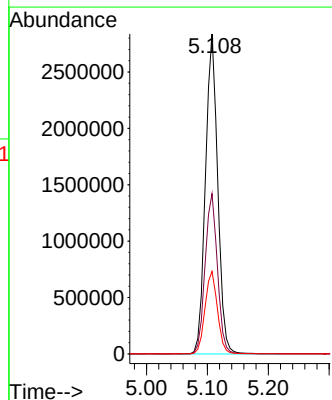
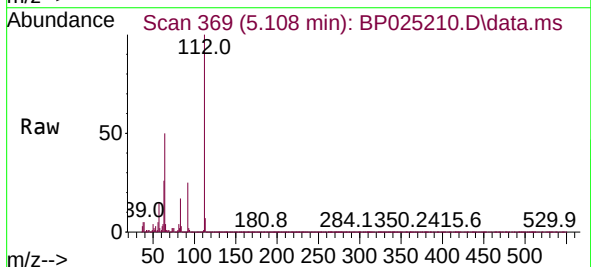
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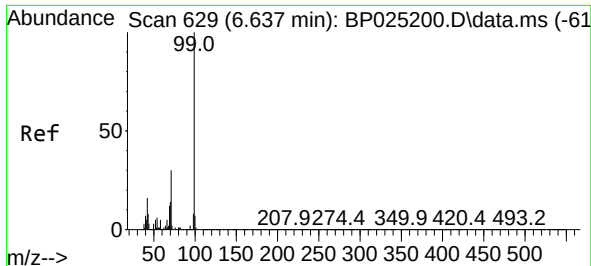
Reviewed By :Rahul Chavli 07/23/2025
Supervised By :Jagrut Upadhyay 07/23/2025



#5
2-Fluorophenol
Concen: 76.802 ng
RT: 5.108 min Scan# 369
Delta R.T. 0.006 min
Lab File: BP025210.D
Acq: 22 Jul 2025 11:51

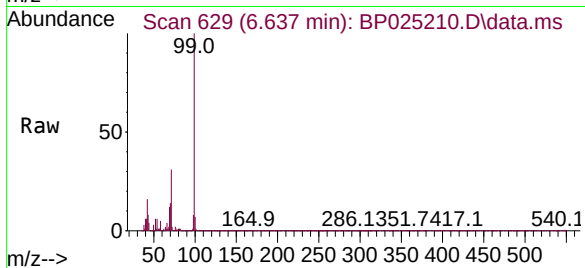
Tgt Ion:112 Resp: 3955332
Ion Ratio Lower Upper
112 100
64 50.1 39.8 59.6
63 25.8 20.5 30.7





#7
Phenol-d6
Concen: 76.520 ng
RT: 6.637 min Scan# 61
Delta R.T. 0.000 min
Lab File: BP025210.D
Acq: 22 Jul 2025 11:51

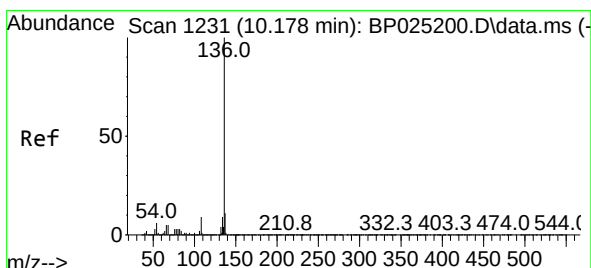
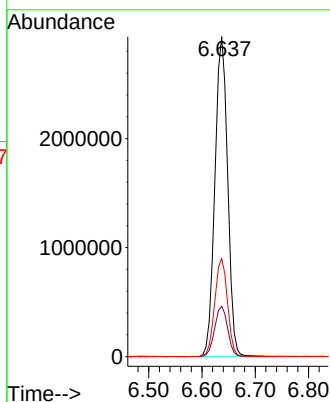
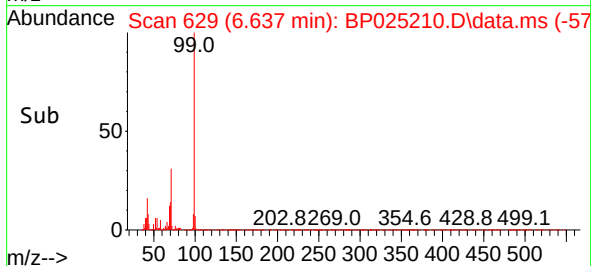
Instrument :
BNA_P
ClientSampleId :
OU4-TS-40-071725



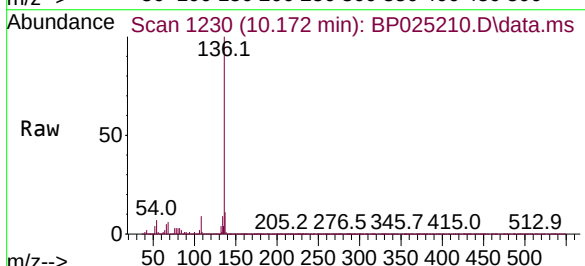
Tgt Ion: 99 Resp: 4880822
Ion Ratio Lower Upper
99 100
42 15.7 12.5 18.7
71 30.6 24.2 36.2

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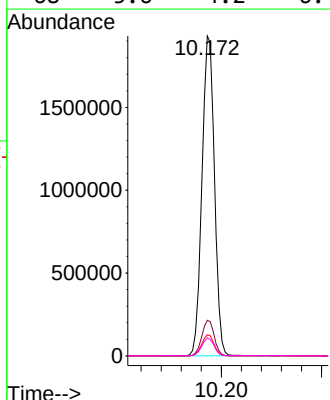
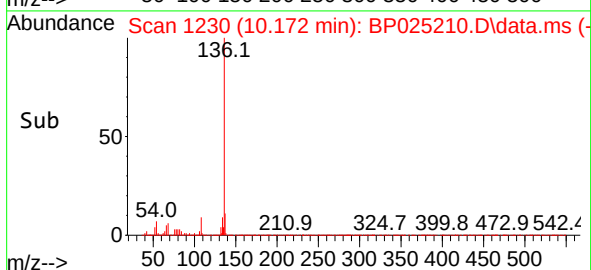
Reviewed By :Rahul Chavli 07/23/2025
Supervised By :Jagrut Upadhyay 07/23/2025

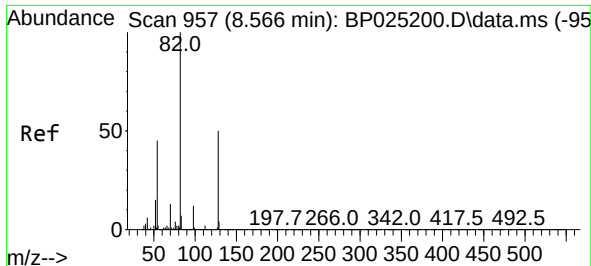


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.172 min Scan# 1230
Delta R.T. -0.006 min
Lab File: BP025210.D
Acq: 22 Jul 2025 11:51



Tgt Ion:136 Resp: 3344284
Ion Ratio Lower Upper
136 100
137 11.1 8.8 13.2
54 6.6 5.1 7.7
68 5.6 4.2 6.4





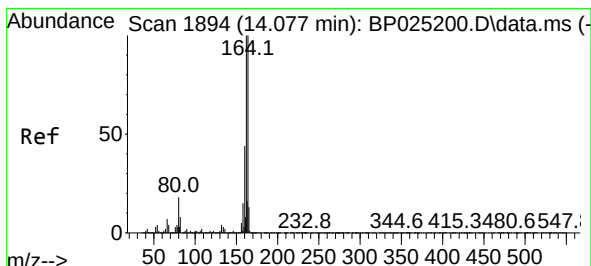
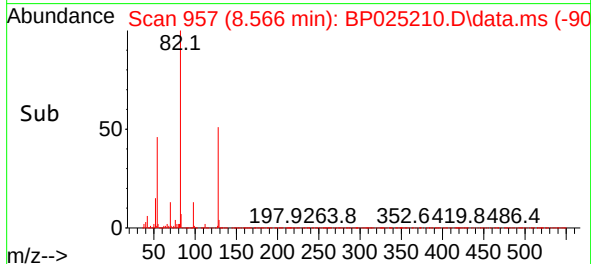
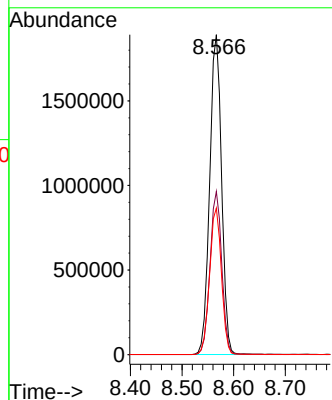
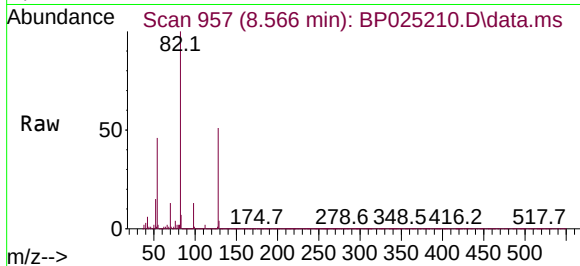
#23
Nitrobenzene-d5
Concen: 50.229 ng
RT: 8.566 min Scan# 91
Delta R.T. 0.000 min
Lab File: BP025210.D
Acq: 22 Jul 2025 11:51

Instrument :
BNA_P
ClientSampleId :
OU4-TS-40-071725

Tgt Ion: 82 Resp: 3022658
Ion Ratio Lower Upper
82 100
128 51.0 40.2 60.4
54 45.8 36.3 54.5

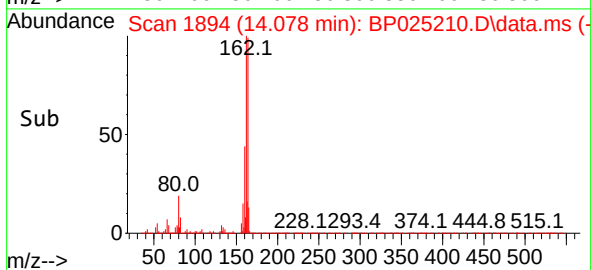
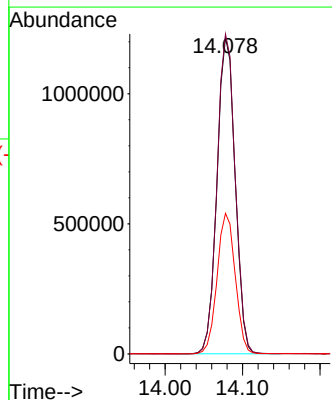
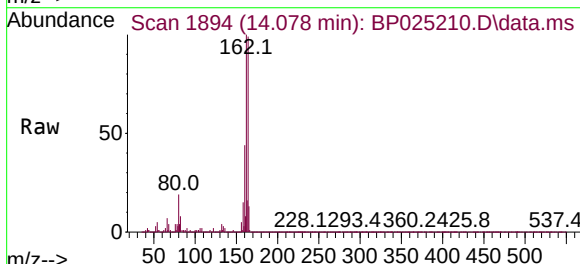
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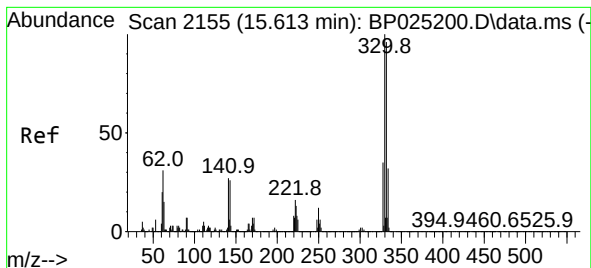
Reviewed By :Rahul Chavli 07/23/2025
Supervised By :Jagrut Upadhyay 07/23/2025



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.078 min Scan# 1894
Delta R.T. 0.000 min
Lab File: BP025210.D
Acq: 22 Jul 2025 11:51

Tgt Ion:164 Resp: 1975954
Ion Ratio Lower Upper
164 100
162 101.1 80.3 120.5
160 44.4 35.7 53.5





#42

2,4,6-Tribromophenol

Concen: 78.086 ng

RT: 15.607 min Scan# 21

Delta R.T. -0.006 min

Lab File: BP025210.D

Acq: 22 Jul 2025 11:51

Instrument :

BNA_P

ClientSampleId :

OU4-TS-40-071725

Tgt Ion:330 Resp: 227462

Ion Ratio Lower Upper

330 100

332 96.5 77.1 115.7

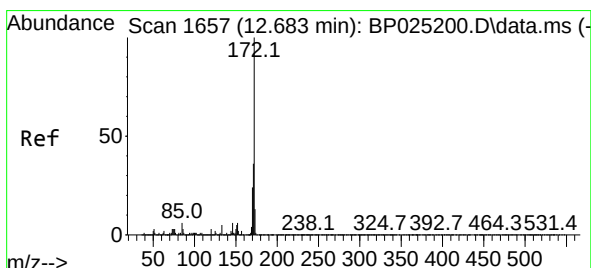
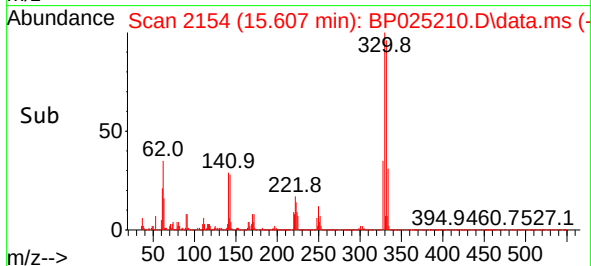
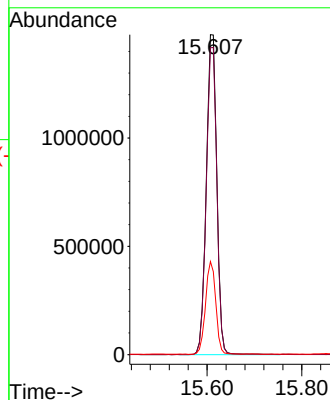
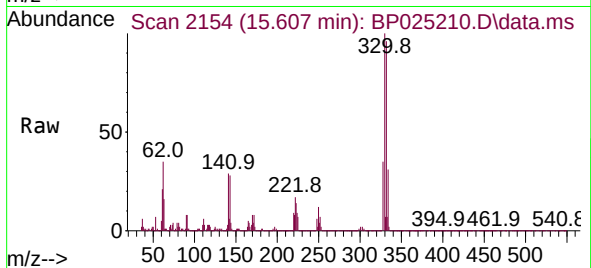
141 28.2 22.4 33.6

Manual Integrations

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Supervised By :Jagrut Upadhyay 07/23/2025



#45

2-Fluorobiphenyl

Concen: 52.240 ng

RT: 12.678 min Scan# 1656

Delta R.T. -0.006 min

Lab File: BP025210.D

Acq: 22 Jul 2025 11:51

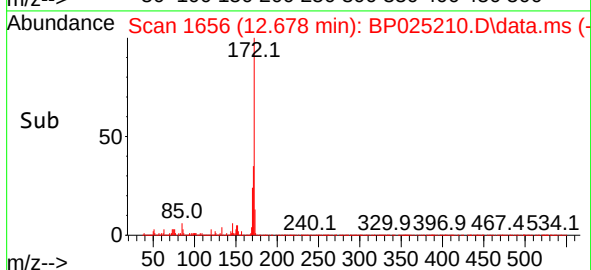
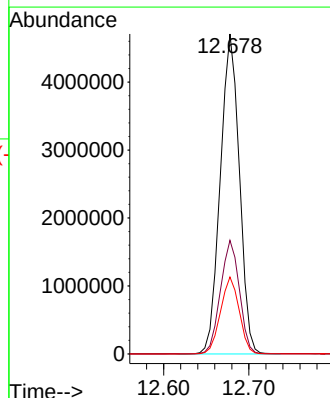
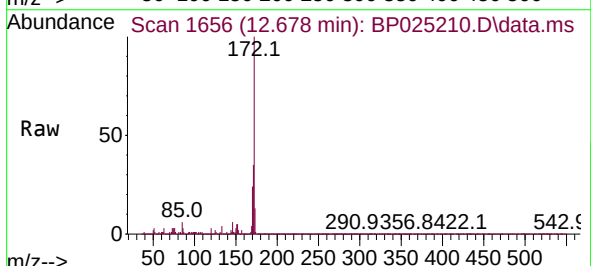
Tgt Ion:172 Resp: 7321746

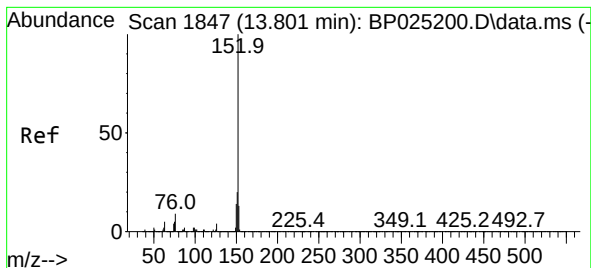
Ion Ratio Lower Upper

172 100

171 35.5 28.8 43.2

170 24.0 19.2 28.8





#49

Acenaphthylene

Concen: 2.988 ng

RT: 13.795 min Scan# 1846

Delta R.T. -0.006 min

Lab File: BP025210.D

Acq: 22 Jul 2025 11:51

Instrument :

BNA_P

ClientSampleId :

OU4-TS-40-071725

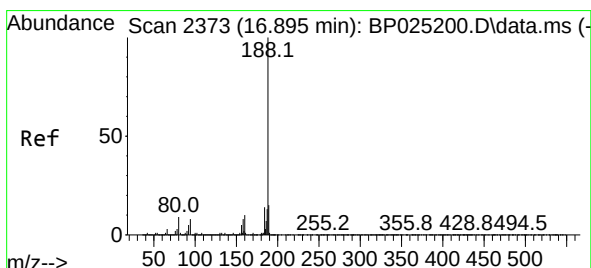
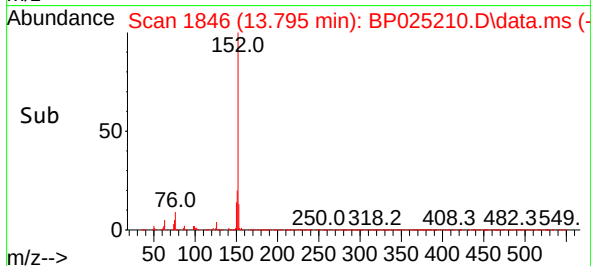
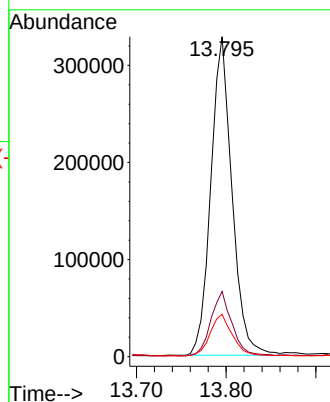
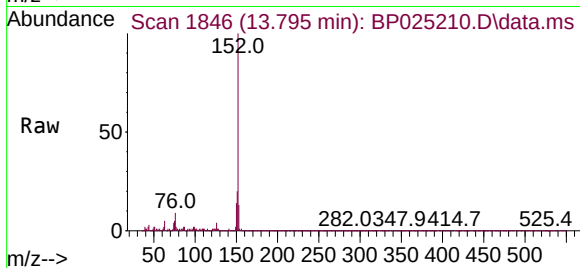
Tgt Ion:	152	Resp:	540510
Ion Ratio	Lower	Upper	
152	100		
151	20.4	16.2	24.2
153	13.2	10.6	15.8

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Supervised By :Jagrut Upadhyay 07/23/2025



#64

Phenanthrene-d10

Concen: 20.000 ng

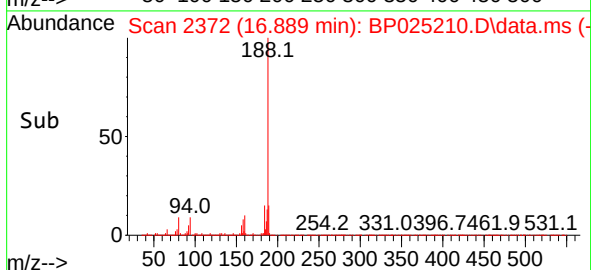
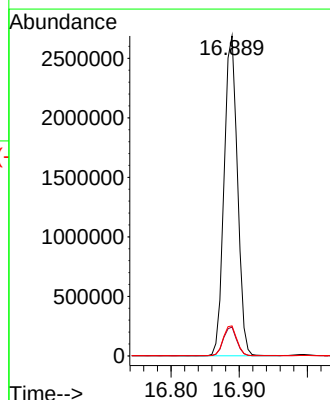
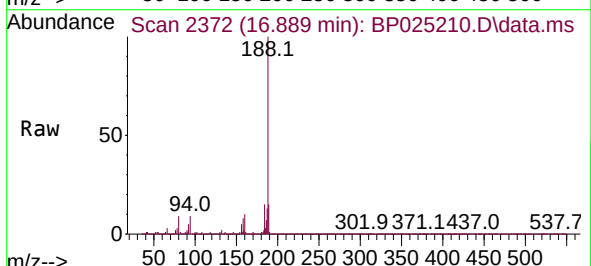
RT: 16.889 min Scan# 2372

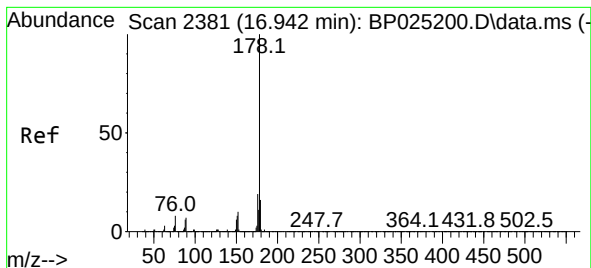
Delta R.T. -0.006 min

Lab File: BP025210.D

Acq: 22 Jul 2025 11:51

Tgt Ion:	188	Resp:	3638856
Ion Ratio	Lower	Upper	
188	100		
94	9.0	6.8	10.2
80	9.4	7.3	10.9





#71

Phenanthrene

Concen: 3.160 ng

RT: 16.931 min Scan# 2379

Delta R.T. -0.011 min

Lab File: BP025210.D

Acq: 22 Jul 2025 11:51

Instrument :

BNA_P

ClientSampleId :

OU4-TS-40-071725

Tgt Ion:178 Resp: 62012

Ion Ratio Lower Upper

178 100

176 19.3 15.6 23.4

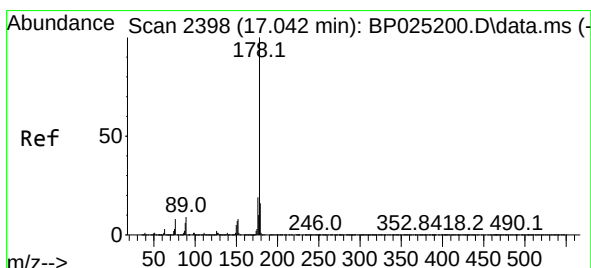
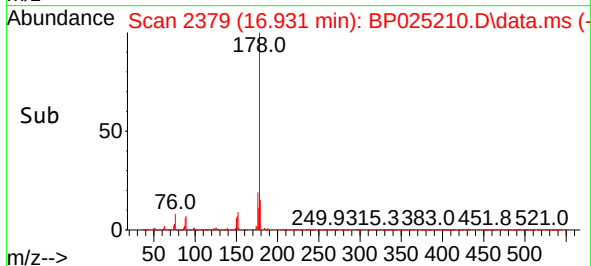
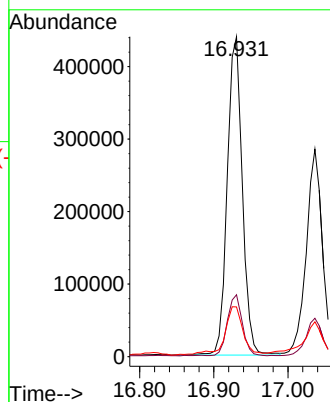
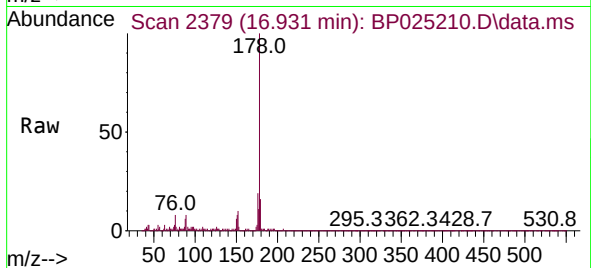
179 15.5 12.5 18.7

Manual Integrations

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Reviewed By :Rahul Chavli 07/23/2025

Supervised By :Jagrut Upadhyay 07/23/2025



#72

Anthracene

Concen: 2.127 ng

RT: 17.036 min Scan# 2397

Delta R.T. -0.006 min

Lab File: BP025210.D

Acq: 22 Jul 2025 11:51

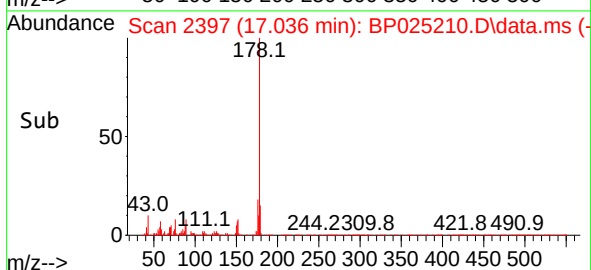
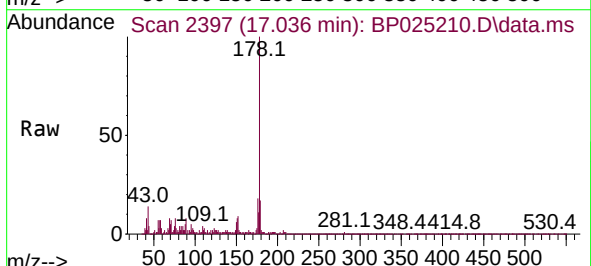
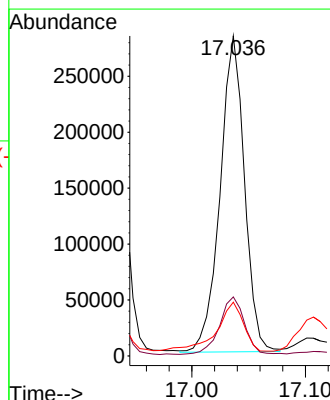
Tgt Ion:178 Resp: 420458

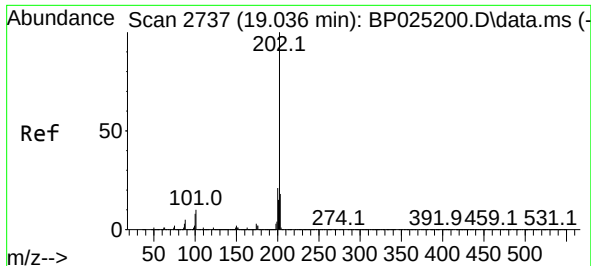
Ion Ratio Lower Upper

178 100

176 18.4 15.0 22.4

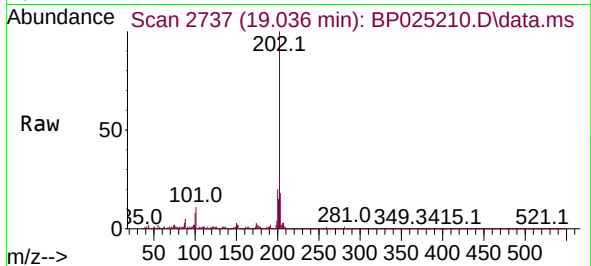
179 16.8 12.5 18.7





#75
Fluoranthene
Concen: 8.105 ng
RT: 19.036 min Scan# 21
Delta R.T. 0.000 min
Lab File: BP025210.D
Acq: 22 Jul 2025 11:51

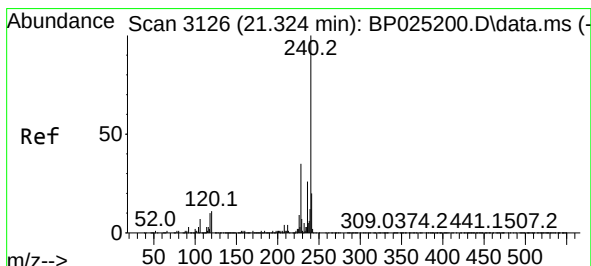
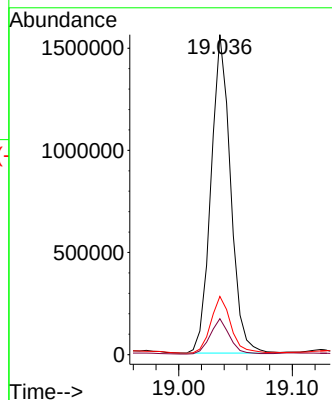
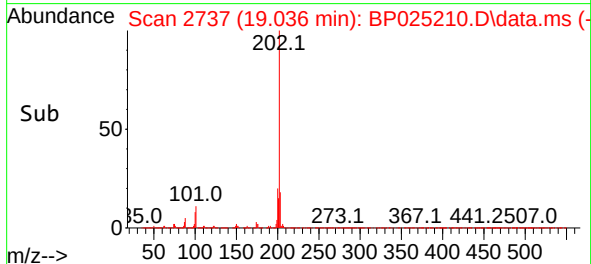
Instrument :
BNA_P
ClientSampleId :
OU4-TS-40-071725



Tgt Ion:202 Resp: 1872149
Ion Ratio Lower Upper
202 100
101 11.2 0.0 30.3
203 18.2 0.0 38.0

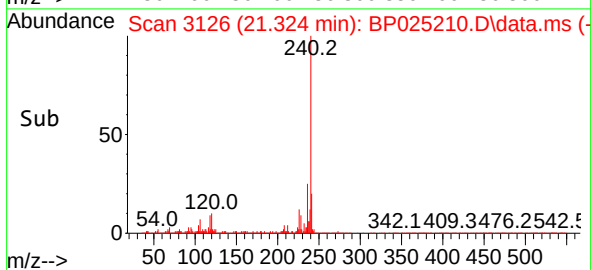
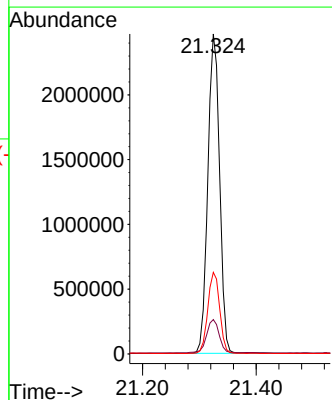
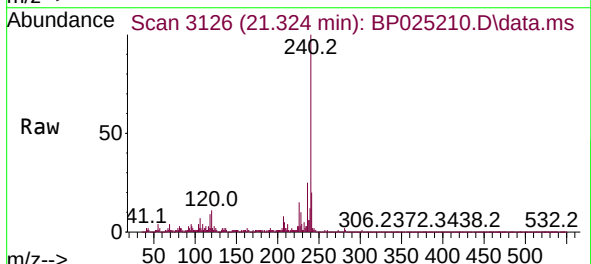
Manual Integrations
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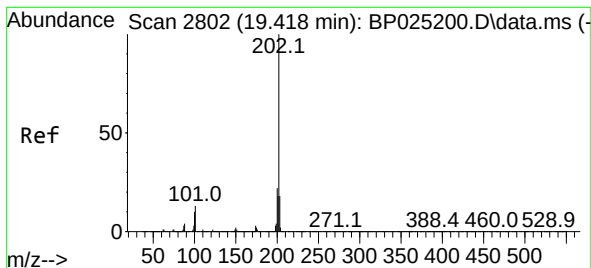
Reviewed By :Rahul Chavli 07/23/2025
Supervised By :Jagrut Upadhyay 07/23/2025



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.324 min Scan# 3126
Delta R.T. 0.000 min
Lab File: BP025210.D
Acq: 22 Jul 2025 11:51

Tgt Ion:240 Resp: 3558679
Ion Ratio Lower Upper
240 100
120 10.7 8.8 13.2
236 25.5 20.9 31.3





#78

Pyrene

Concen: 10.791 ng

RT: 19.413 min Scan# 2802

Delta R.T. -0.006 min

Lab File: BP025210.D

Acq: 22 Jul 2025 11:51

Instrument :

BNA_P

ClientSampleId :

OU4-TS-40-071725

Tgt Ion:202 Resp: 236787

Ion Ratio Lower Upper

202 100

200 20.9 17.4 26.2

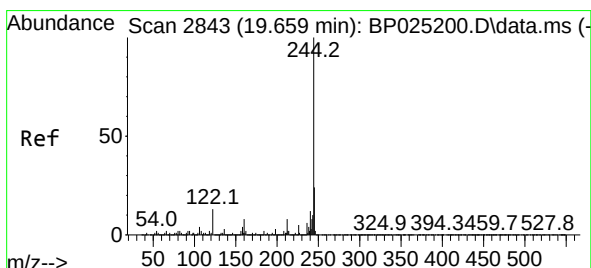
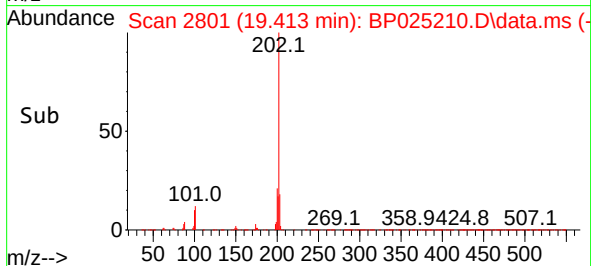
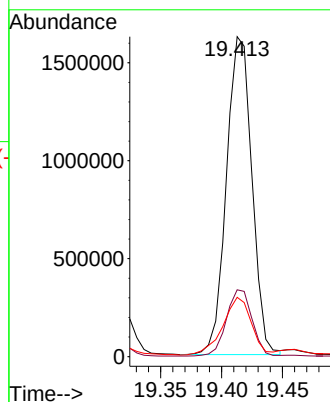
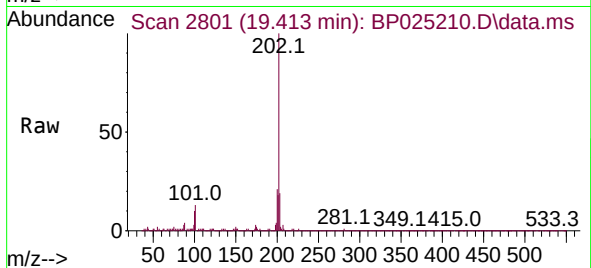
203 18.5 14.3 21.5

Manual Integrations

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Reviewed By :Rahul Chavli 07/23/2025

Supervised By :Jagrut Upadhyay 07/23/2025



#79

Terphenyl-d14

Concen: 51.825 ng

RT: 19.660 min Scan# 2843

Delta R.T. 0.001 min

Lab File: BP025210.D

Acq: 22 Jul 2025 11:51

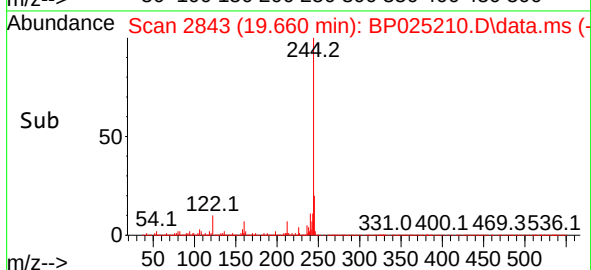
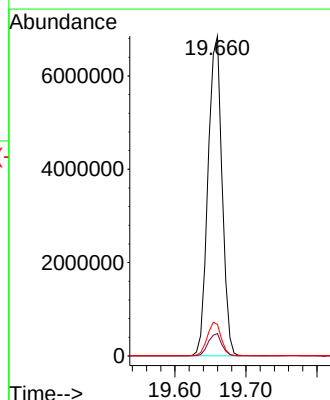
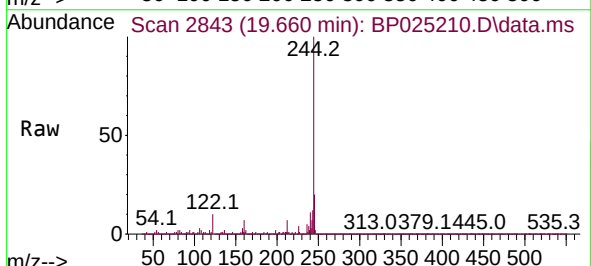
Tgt Ion:244 Resp: 9342690

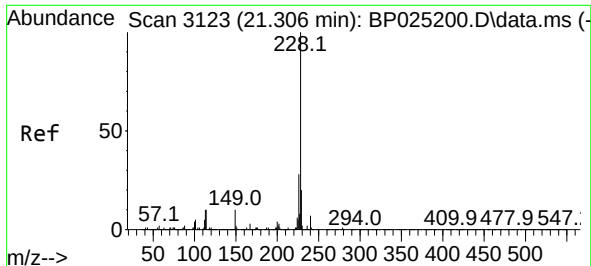
Ion Ratio Lower Upper

244 100

212 7.0 6.6 9.8

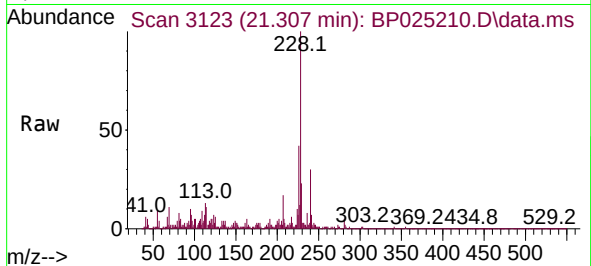
122 9.8 10.3 15.5#





#81
Benzo(a)anthracene
Concen: 7.211 ng m
RT: 21.307 min Scan# 3123
Delta R.T. 0.000 min
Lab File: BP025210.D
Acq: 22 Jul 2025 11:51

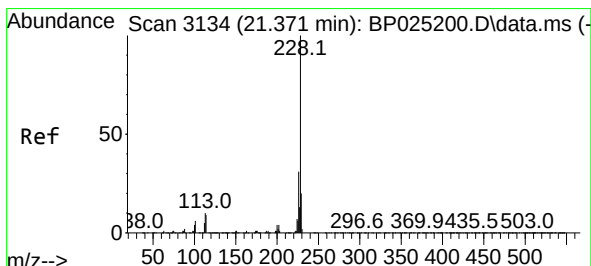
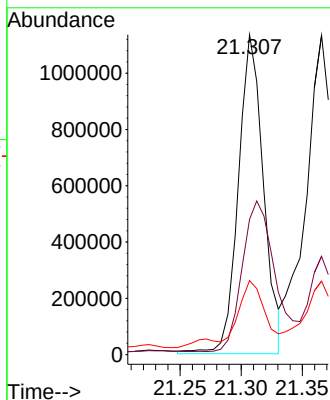
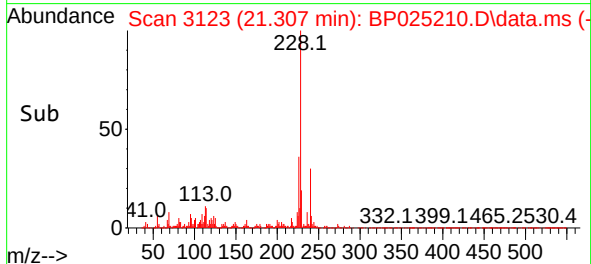
Instrument :
BNA_P
ClientSampleId :
OU4-TS-40-071725



Tgt Ion:228 Resp: 1620605
Ion Ratio Lower Upper
228 100
226 42.3 22.3 33.5
229 23.1 16.2 24.2

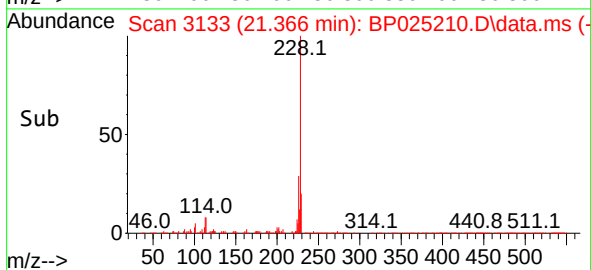
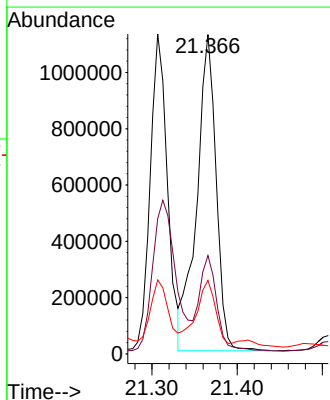
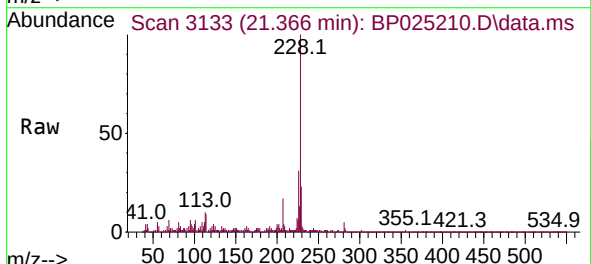
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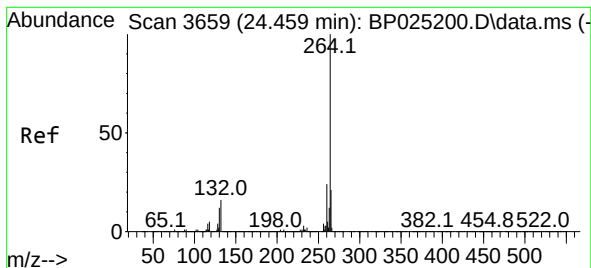
Reviewed By :Rahul Chavli 07/23/2025
Supervised By :Jagrut Upadhyay 07/23/2025



#83
Chrysene
Concen: 8.505 ng
RT: 21.366 min Scan# 3133
Delta R.T. -0.006 min
Lab File: BP025210.D
Acq: 22 Jul 2025 11:51

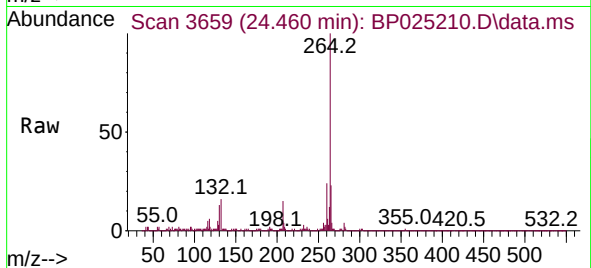
Tgt Ion:228 Resp: 1784185
Ion Ratio Lower Upper
228 100
226 30.8 24.6 37.0
229 23.0 16.0 24.0





#86
Perylene-d12
Concen: 20.000 ng
RT: 24.460 min Scan# 3659
Delta R.T. 0.000 min
Lab File: BP025210.D
Acq: 22 Jul 2025 11:51

Instrument :
BNA_P
ClientSampleId :
OU4-TS-40-071725

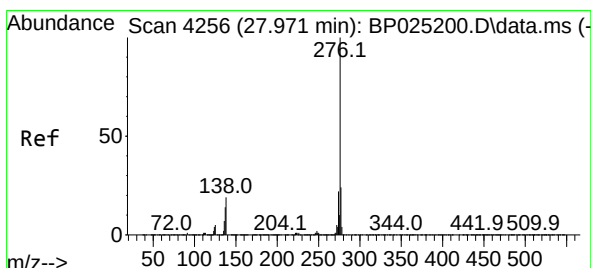
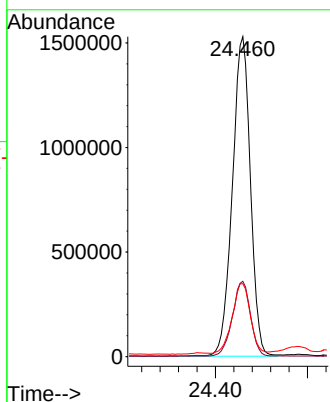
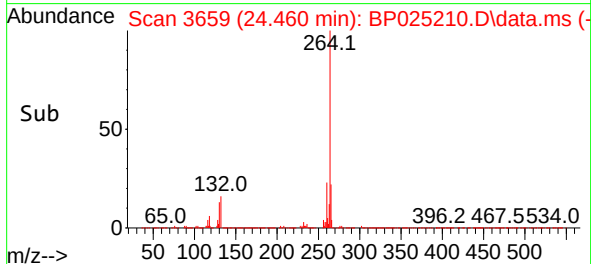


Tgt Ion: 264 Resp: 413830

Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.0	28.6
265	22.8	17.5	26.3

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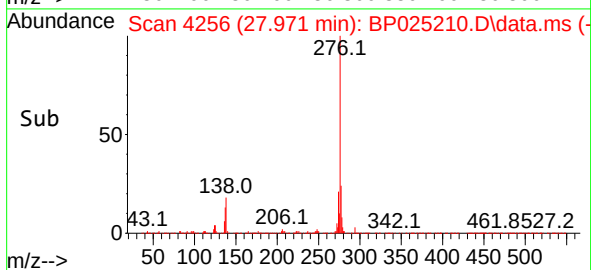
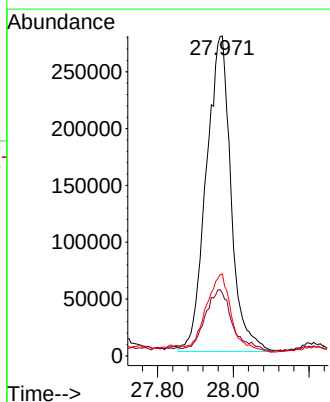
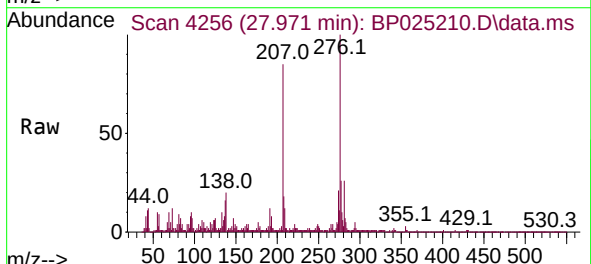
Reviewed By :Rahul Chavli 07/23/2025
Supervised By :Jagrut Upadhyay 07/23/2025

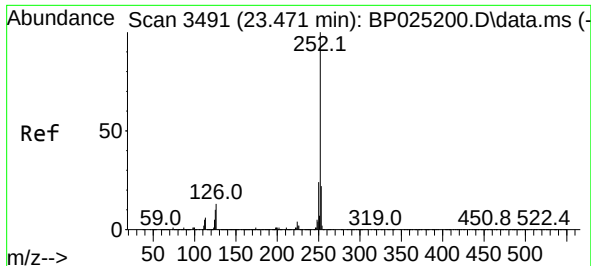


#87
Indeno(1,2,3-cd)pyrene
Concen: 4.165 ng
RT: 27.971 min Scan# 4256
Delta R.T. 0.000 min
Lab File: BP025210.D
Acq: 22 Jul 2025 11:51

Tgt Ion: 276 Resp: 1259500

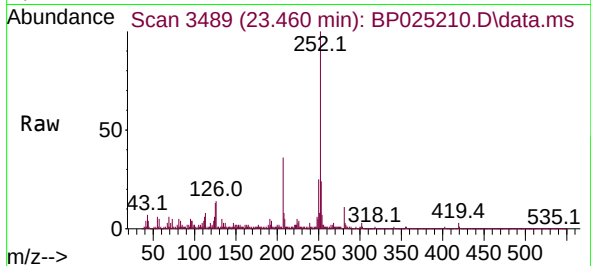
Ion	Ratio	Lower	Upper
276	100		
138	21.6	12.8	19.2
277	25.5	20.3	30.5





#88
Benzo(b)fluoranthene
Concen: 8.581 ng
RT: 23.460 min Scan# 3491
Delta R.T. -0.011 min
Lab File: BP025210.D
Acq: 22 Jul 2025 11:51

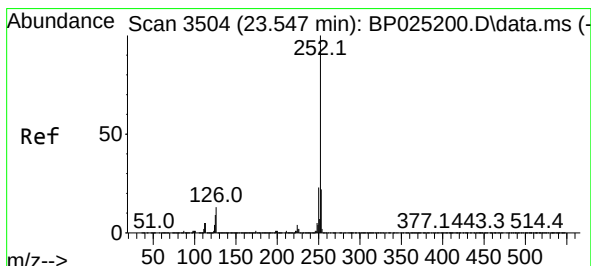
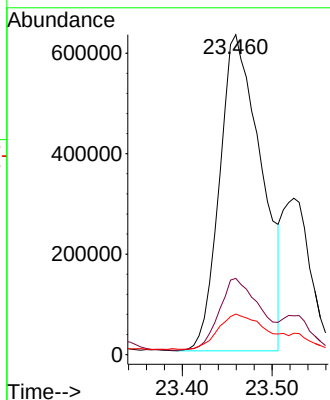
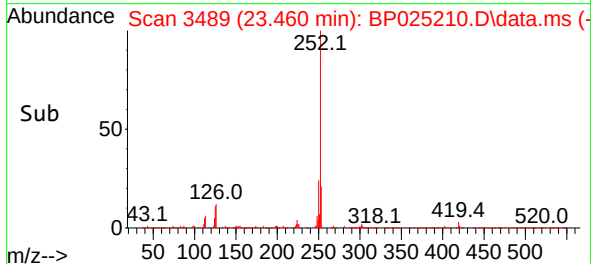
Instrument : BNA_P
ClientSampleId : OU4-TS-40-071725



Tgt Ion:252 Resp: 2032653
Ion Ratio Lower Upper
252 100
253 23.8 18.0 27.0
125 12.7 7.8 11.8

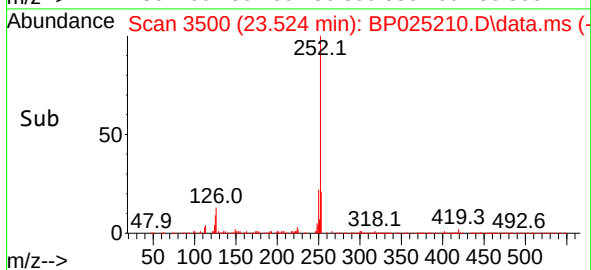
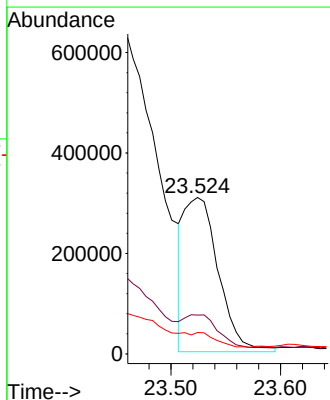
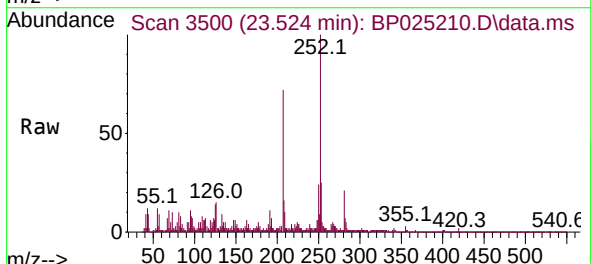
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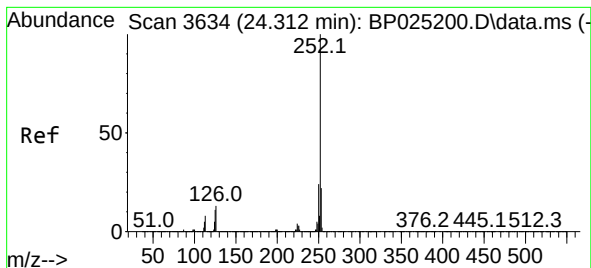
Reviewed By :Rahul Chavli 07/23/2025
Supervised By :Jagrut Upadhyay 07/23/2025



#89
Benzo(k)fluoranthene
Concen: 2.871 ng m
RT: 23.524 min Scan# 3500
Delta R.T. -0.023 min
Lab File: BP025210.D
Acq: 22 Jul 2025 11:51

Tgt Ion:252 Resp: 671504
Ion Ratio Lower Upper
252 100
253 24.8 17.8 26.6
125 13.6 7.5 11.3





#90

Benzo(a)pyrene

Concen: 7.766 ng

RT: 24.289 min Scan# 3630

Delta R.T. -0.023 min

Lab File: BP025210.D

Acq: 22 Jul 2025 11:51

Instrument :

BNA_P

ClientSampleId :

OU4-TS-40-071725

Tgt Ion:252 Resp: 1794768

Ion Ratio Lower Upper

252 100

253 23.7 17.8 26.6

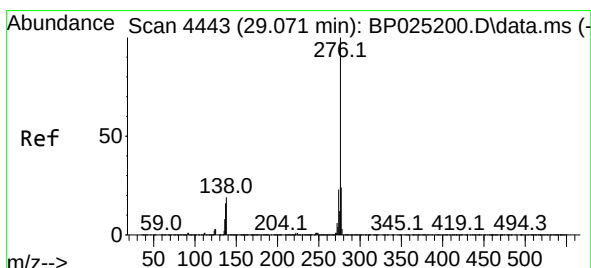
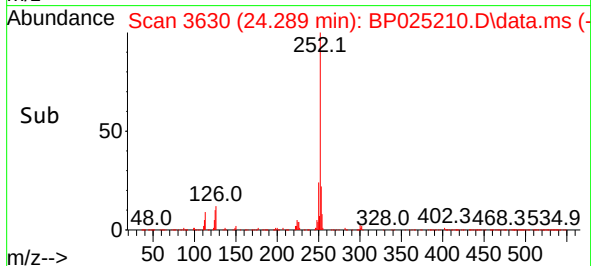
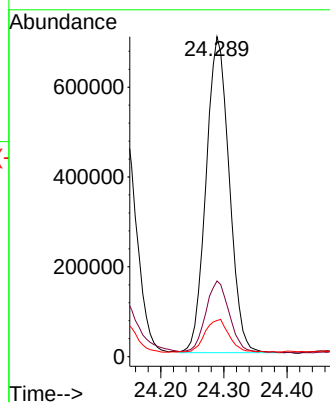
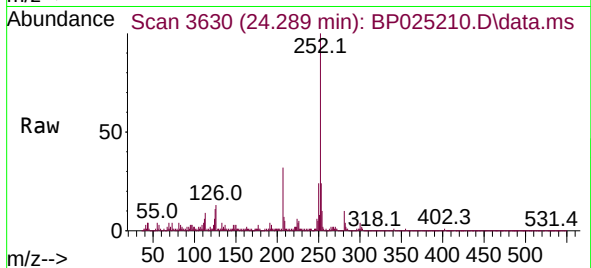
125 11.3 8.6 12.8

Manual Integrations

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Reviewed By :Rahul Chavli 07/23/2025

Supervised By :Jagrut Upadhyay 07/23/2025



#92

Benzo(g,h,i)perylene

Concen: 5.182 ng

RT: 29.059 min Scan# 4441

Delta R.T. -0.011 min

Lab File: BP025210.D

Acq: 22 Jul 2025 11:51

Tgt Ion:276 Resp: 1256583

Ion Ratio Lower Upper

276 100

277 25.7 19.2 28.8

138 21.7 15.4 23.2

