

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072325\
 Data File : BP025230.D
 Acq On : 23 Jul 2025 19:39
 Operator : CG/JU
 Sample : Q2638-13RE
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 OU4-TS-37-071725RE

Quant Time: Jul 24 01:50:31 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 07/24/2025
 Supervised By :Jagrut Upadhyay 07/24/2025

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.431	152	476258	20.000	ng	0.00
21) Naphthalene-d8	10.178	136	2042219	20.000	ng	0.00
39) Acenaphthene-d10	14.090	164	1447501	20.000	ng	0.01
64) Phenanthrene-d10	16.901	188	3013486	20.000	ng	0.00
76) Chrysene-d12	21.330	240	3123592	20.000	ng	0.00
86) Perylene-d12	24.466	264	3621930	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.102	112	1756713	62.324	ng	0.00
7) Phenol-d6	6.637	99	2355999	67.486	ng	0.00
23) Nitrobenzene-d5	8.566	82	1430509	38.927	ng	0.00
42) 2,4,6-Tribromophenol	15.613	330	1411178	66.130	ng	0.00
45) 2-Fluorobiphenyl	12.684	172	3860254	37.597	ng	0.00
79) Terphenyl-d14	19.666	244	6284821	39.718	ng	0.00
Target Compounds						
						Qvalue
49) Acenaphthylene	13.801	152	280036	2.113	ng	99
75) Fluoranthene	19.054	202	1022203	5.344	ng	99
78) Pyrene	19.431	202	1293283	6.715	ng	98
81) Benzo(a)anthracene	21.313	228	877128m	4.447	ng	
83) Chrysene	21.372	228	1001609m	5.439	ng	
87) Indeno(1,2,3-cd)pyrene	28.012	276	762921m	2.882	ng	
88) Benzo(b)fluoranthene	23.489	252	1246129	6.011	ng	# 94
90) Benzo(a)pyrene	24.319	252	1063421	5.257	ng	97
92) Benzo(g,h,i)perylene	29.077	276	760230	3.582	ng	97

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

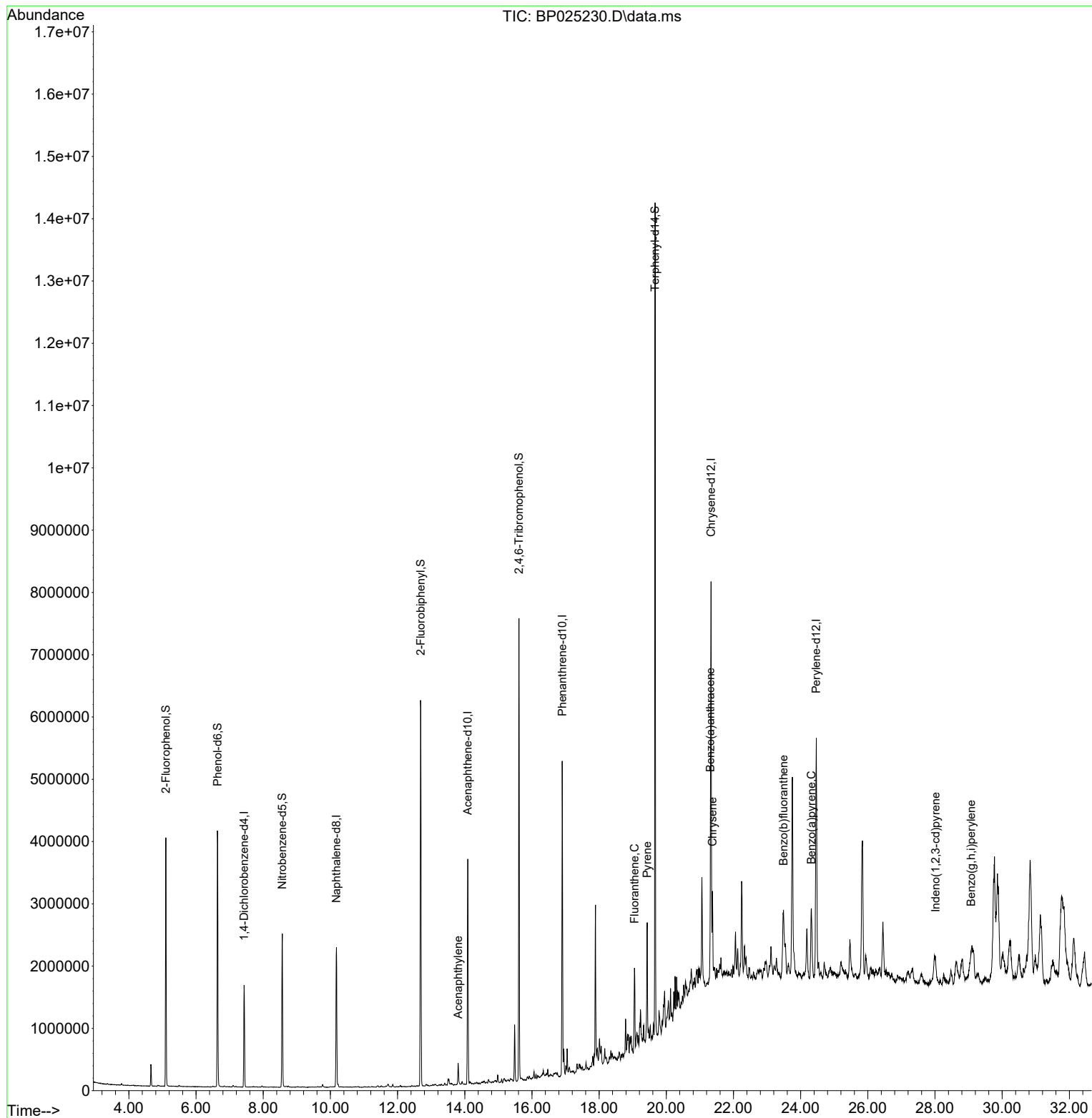
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072325\
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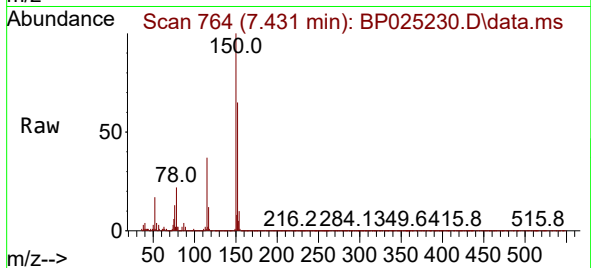
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Supervised By :Jagrut Upadhyay 07/24/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.431 min Scan# 70
Delta R.T. 0.000 min
Lab File: BP025230.D
Acq: 23 Jul 2025 19:39

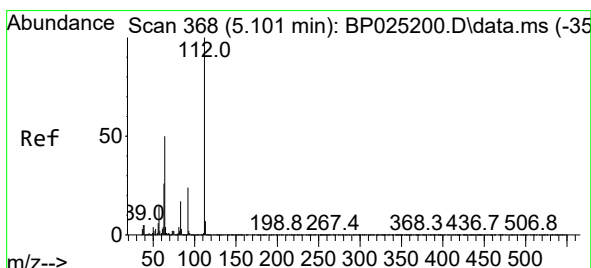
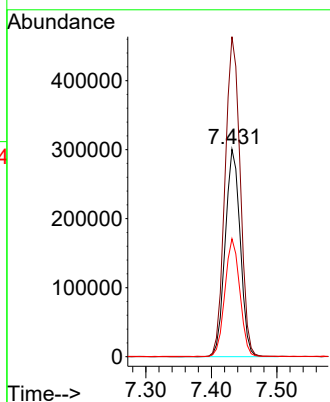
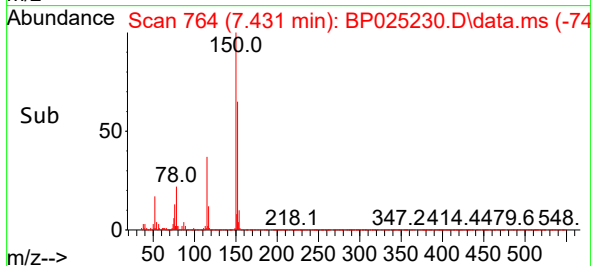
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BNA_P
ClientSampleId :
OU4-TS-37-071725RE



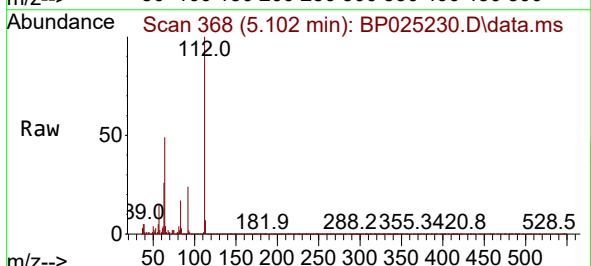
Tgt Ion:152 Resp: 476258
Ion Ratio Lower Upper
152 100
150 154.3 121.9 182.9
115 56.9 43.0 64.6

Manual Integrations
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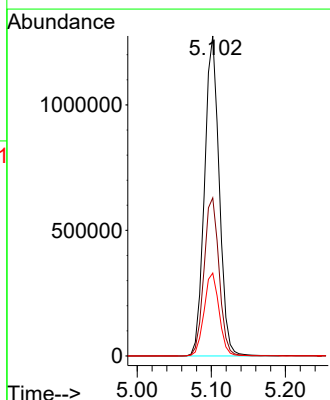
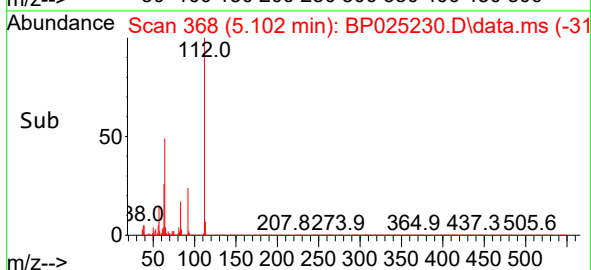
Reviewed By :Rahul Chavli 07/24/2025
Supervised By :Jagrut Upadhyay 07/24/2025

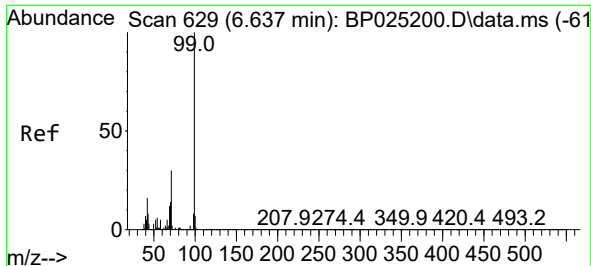


#5
2-Fluorophenol
Concen: 62.324 ng
RT: 5.102 min Scan# 368
Delta R.T. 0.001 min
Lab File: BP025230.D
Acq: 23 Jul 2025 19:39



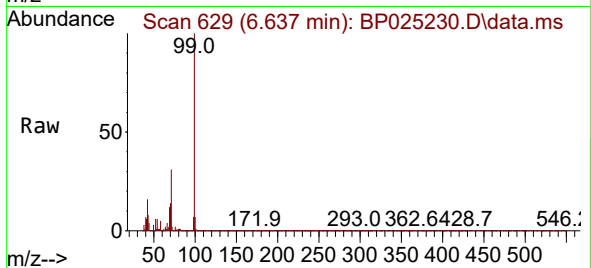
Tgt Ion:112 Resp: 1756713
Ion Ratio Lower Upper
112 100
64 49.4 39.8 59.6
63 25.9 20.5 30.7





#7
Phenol-d6
Concen: 67.486 ng
RT: 6.637 min Scan# 61
Delta R.T. 0.001 min
Lab File: BP025230.D
Acq: 23 Jul 2025 19:39

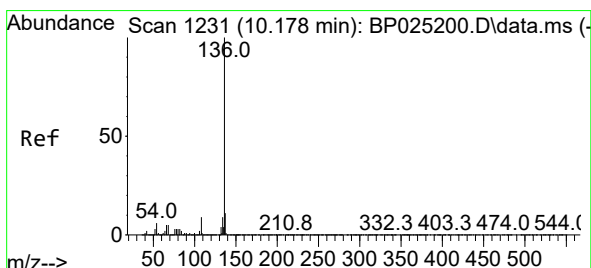
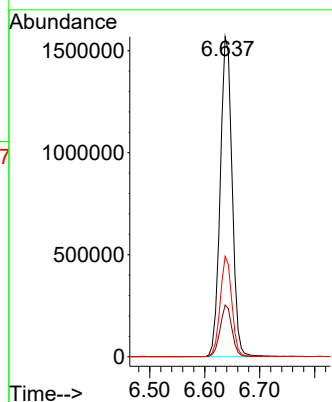
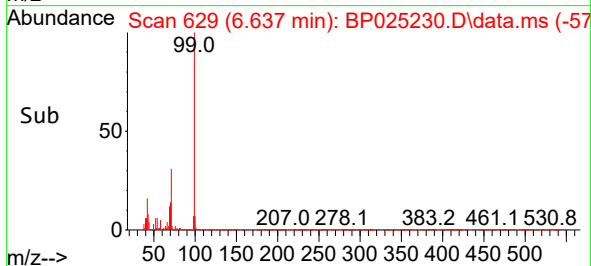
Instrument :
BNA_P
ClientSampleId :
OU4-TS-37-071725RE



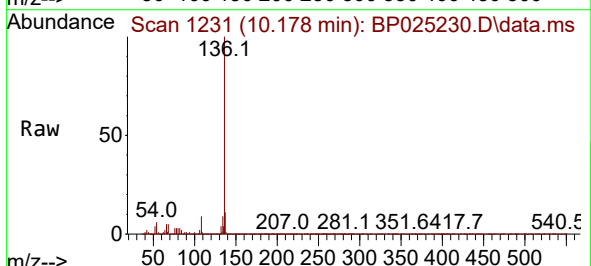
Tgt Ion: 99 Resp: 235599
Ion Ratio Lower Upper
99 100
42 16.1 12.5 18.7
71 31.4 24.2 36.2

Manual Integrations
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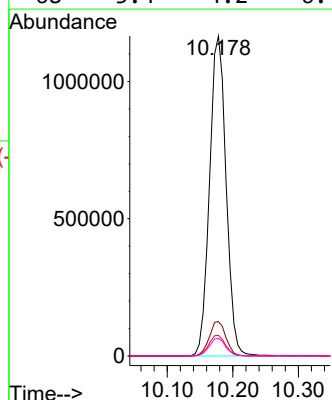
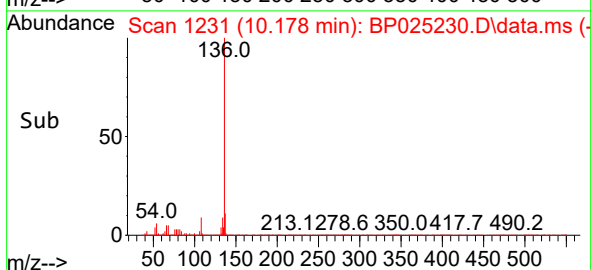
Reviewed By :Rahul Chavli 07/24/2025
Supervised By :Jagrut Upadhyay 07/24/2025

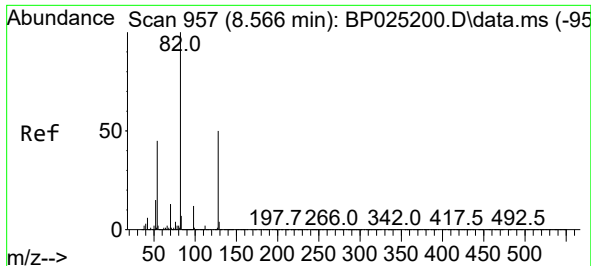


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.178 min Scan# 1231
Delta R.T. 0.001 min
Lab File: BP025230.D
Acq: 23 Jul 2025 19:39



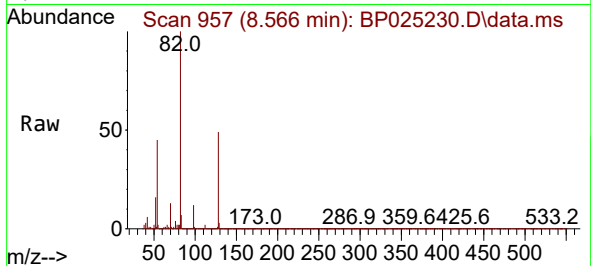
Tgt Ion:136 Resp: 2042219
Ion Ratio Lower Upper
136 100
137 10.7 8.8 13.2
54 6.4 5.1 7.7
68 5.4 4.2 6.4





#23
Nitrobenzene-d5
Concen: 38.927 ng
RT: 8.566 min Scan# 91
Delta R.T. 0.001 min
Lab File: BP025230.D
Acq: 23 Jul 2025 19:39

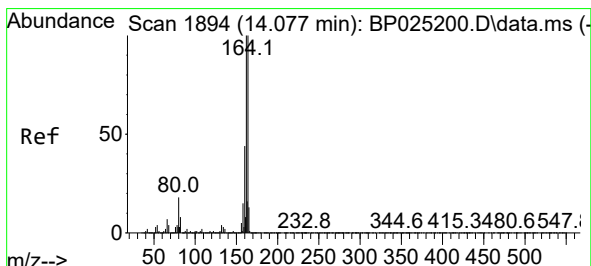
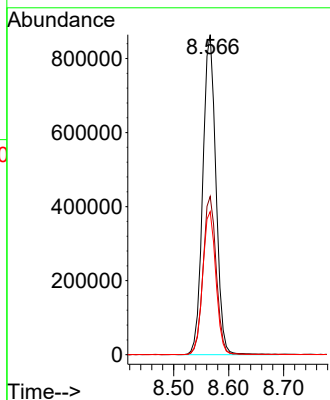
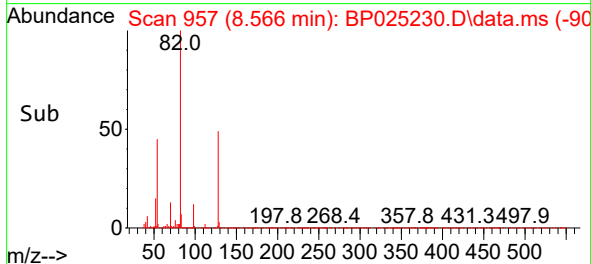
Instrument :
BNA_P
ClientSampleId :
OU4-TS-37-071725RE



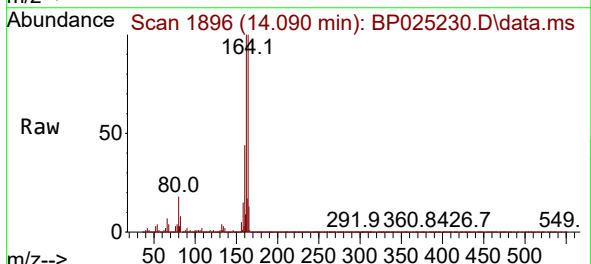
Tgt Ion: 82 Resp: 1430509
Ion Ratio Lower Upper
82 100
128 49.4 40.2 60.4
54 44.7 36.3 54.5

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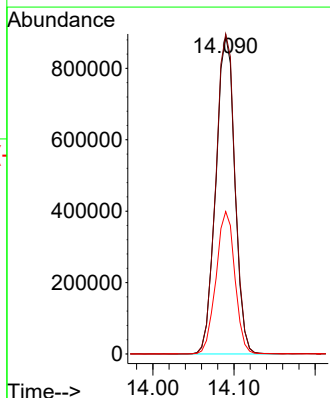
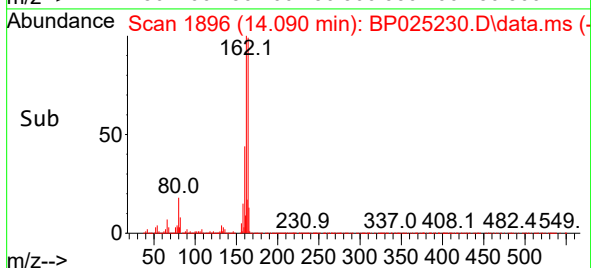
Reviewed By :Rahul Chavli 07/24/2025
Supervised By :Jagrut Upadhyay 07/24/2025

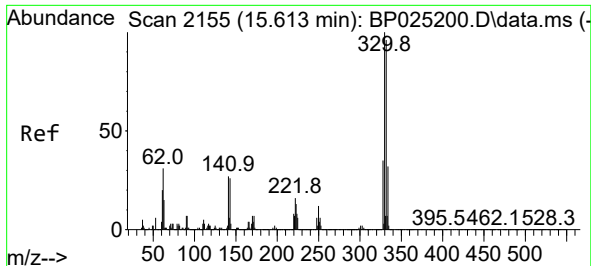


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.090 min Scan# 1896
Delta R.T. 0.012 min
Lab File: BP025230.D
Acq: 23 Jul 2025 19:39



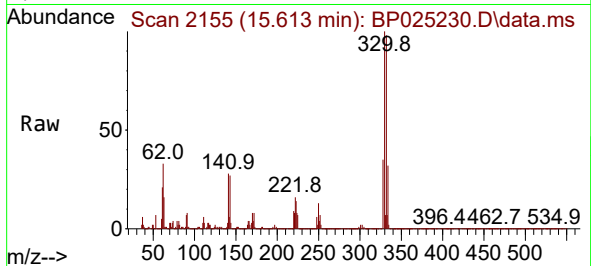
Tgt Ion:164 Resp: 1447501
Ion Ratio Lower Upper
164 100
162 100.5 80.3 120.5
160 44.7 35.7 53.5





#42
2,4,6-Tribromophenol
Concen: 66.130 ng
RT: 15.613 min Scan# 2155
Delta R.T. 0.001 min
Lab File: BP025230.D
Acq: 23 Jul 2025 19:39

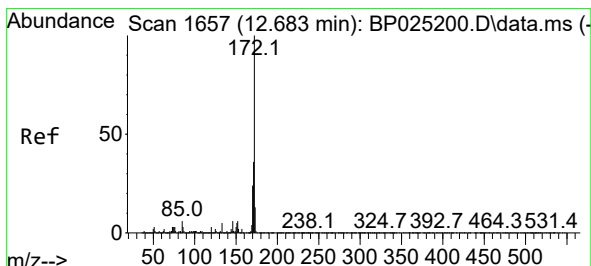
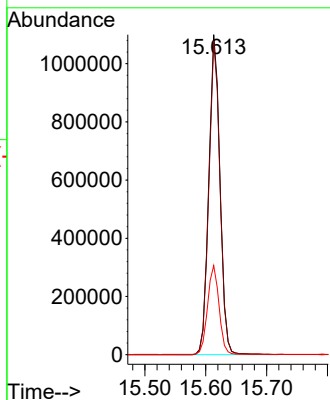
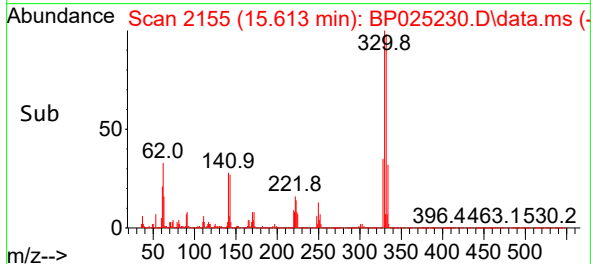
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BNA_P
ClientSampleId :
OU4-TS-37-071725RE



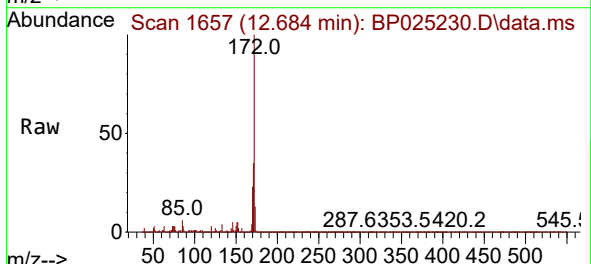
Tgt Ion: 330 Resp: 1411178
Ion Ratio Lower Upper
330 100
332 96.9 77.1 115.7
141 28.2 22.4 33.6

Manual Integrations
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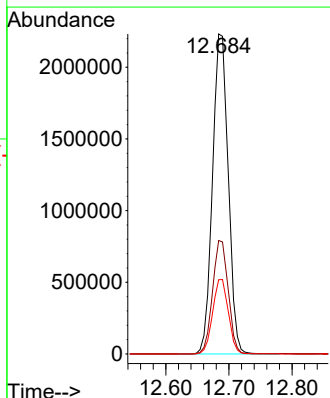
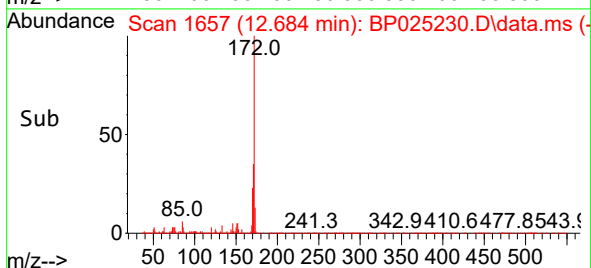
Reviewed By :Rahul Chavli 07/24/2025
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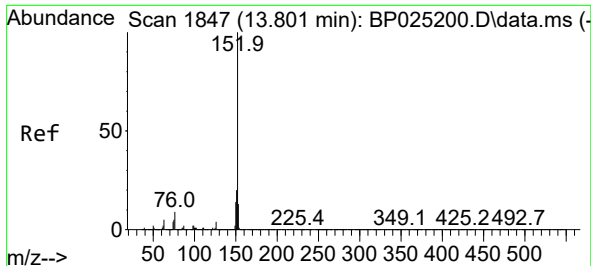


#45
2-Fluorobiphenyl
Concen: 37.597 ng
RT: 12.684 min Scan# 1657
Delta R.T. 0.001 min
Lab File: BP025230.D
Acq: 23 Jul 2025 19:39



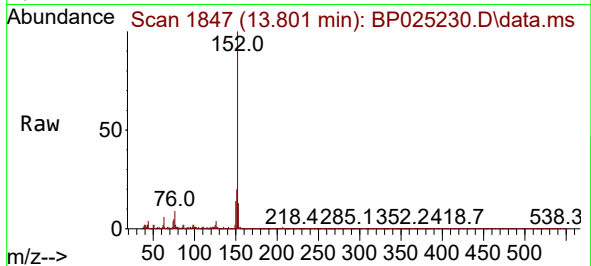
Tgt Ion: 172 Resp: 3860254
Ion Ratio Lower Upper
172 100
171 35.5 28.8 43.2
170 23.2 19.2 28.8





#49
Acenaphthylene
Concen: 2.113 ng
RT: 13.801 min Scan# 1847
Delta R.T. 0.001 min
Lab File: BP025230.D
Acq: 23 Jul 2025 19:39

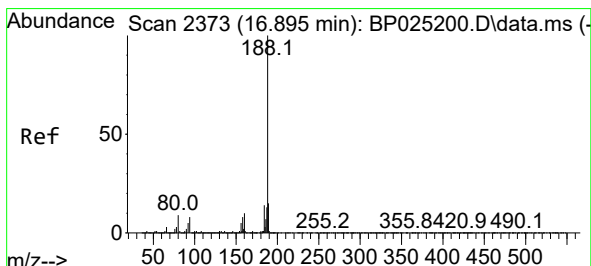
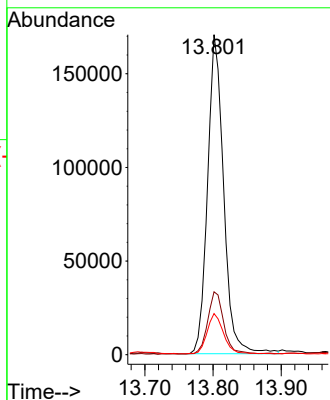
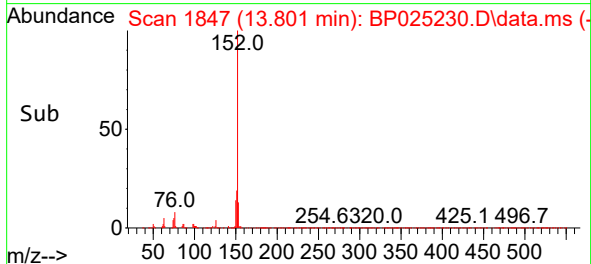
Instrument :
BNA_P
ClientSampleId :
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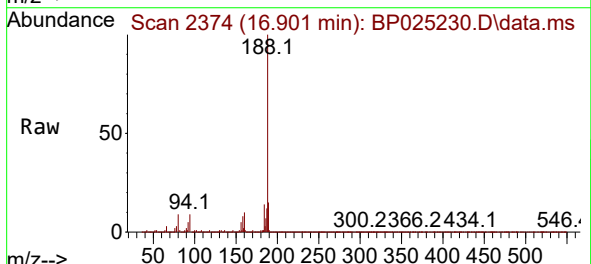
Tgt Ion:152 Resp: 280030
Ion Ratio Lower Upper
152 100
151 19.7 16.2 24.2
153 12.8 10.6 15.8

Manual Integrations
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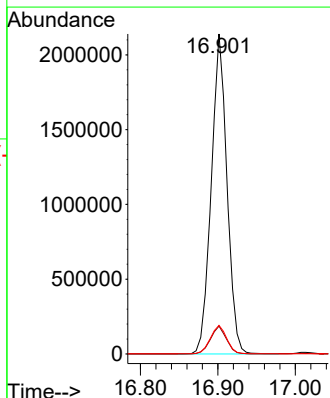
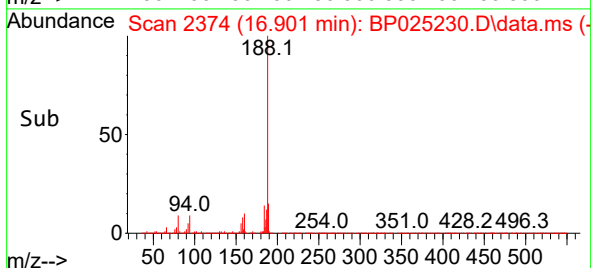
Reviewed By :Rahul Chavli 07/24/2025
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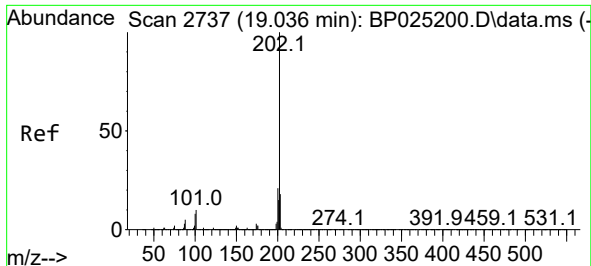


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 16.901 min Scan# 2374
Delta R.T. 0.006 min
Lab File: BP025230.D
Acq: 23 Jul 2025 19:39



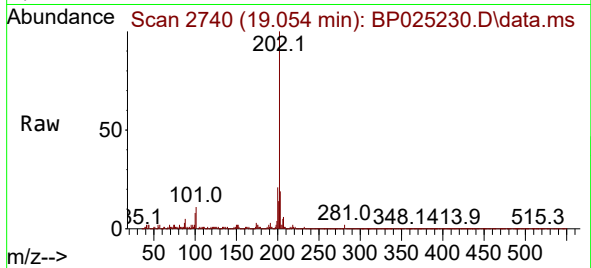
Tgt Ion:188 Resp: 3013486
Ion Ratio Lower Upper
188 100
94 8.7 6.8 10.2
80 8.9 7.3 10.9





#75
Fluoranthene
Concen: 5.344 ng
RT: 19.054 min Scan# 21
Delta R.T. 0.018 min
Lab File: BP025230.D
Acq: 23 Jul 2025 19:39

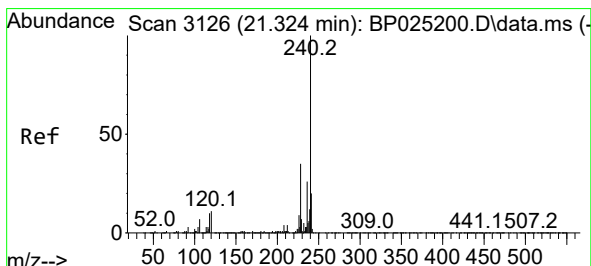
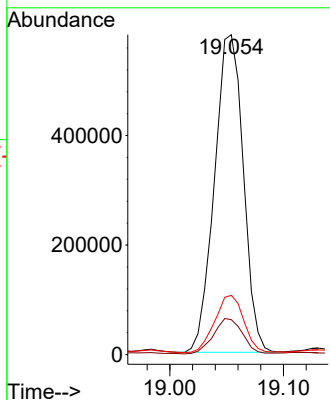
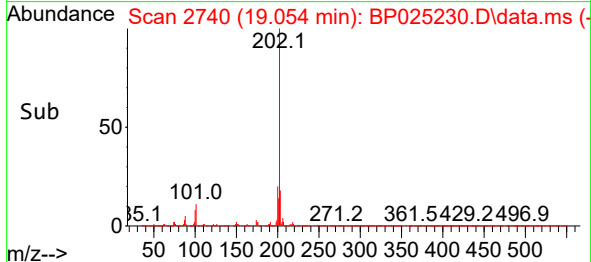
Instrument :
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OU4-TS-37-071725RE



Tgt Ion: 202 Resp: 102220
Ion Ratio Lower Upper
202 100
101 11.0 0.0 30.3
203 18.5 0.0 38.0

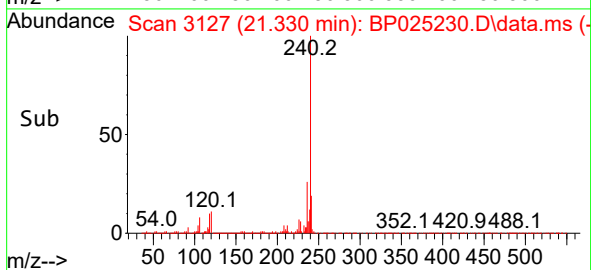
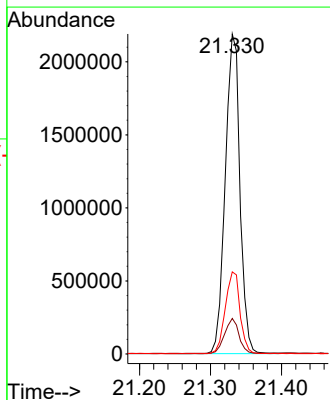
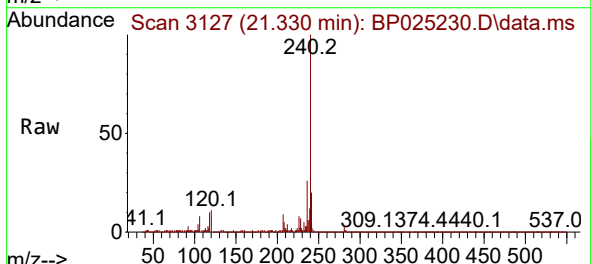
Manual Integrations
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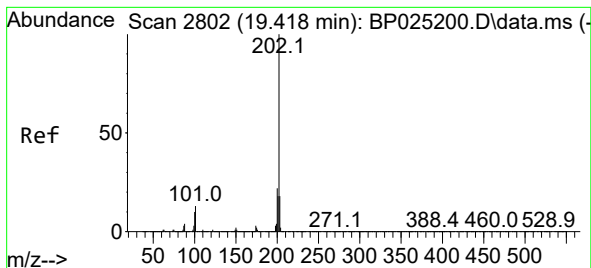
Reviewed By :Rahul Chavli 07/24/2025
Supervised By :Jagrut Upadhyay 07/24/2025



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.330 min Scan# 3127
Delta R.T. 0.006 min
Lab File: BP025230.D
Acq: 23 Jul 2025 19:39

Tgt Ion: 240 Resp: 3123592
Ion Ratio Lower Upper
240 100
120 11.1 8.8 13.2
236 25.7 20.9 31.3





#78

Pyrene

Concen: 6.715 ng

RT: 19.431 min Scan# 2804

Delta R.T. 0.012 min

Lab File: BP025230.D

Acq: 23 Jul 2025 19:39

Instrument :

BNA_P

ClientSampleId :

OU4-TS-37-071725RE

Tgt Ion:202 Resp: 129328

Ion Ratio Lower Upper

202 100

200 20.9 17.4 26.2

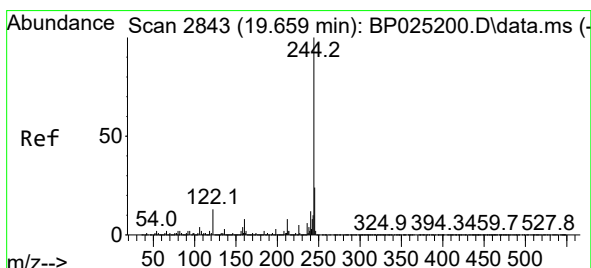
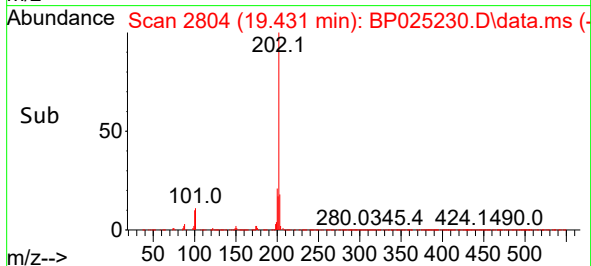
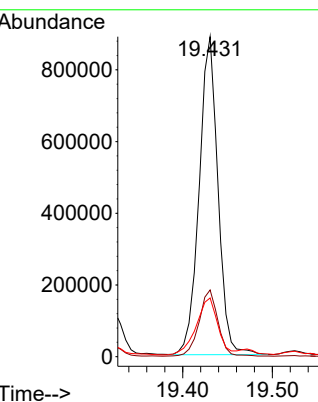
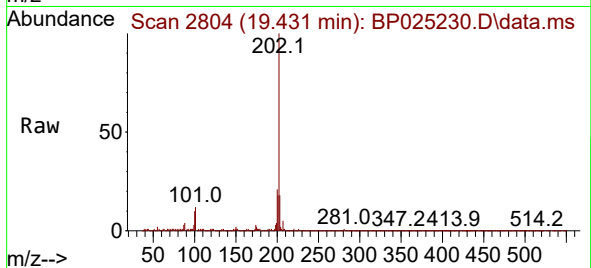
203 18.4 14.3 21.5

Manual Integrations

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Supervised By :Jagrut Upadhyay 07/24/2025



#79

Terphenyl-d14

Concen: 39.718 ng

RT: 19.666 min Scan# 2844

Delta R.T. 0.007 min

Lab File: BP025230.D

Acq: 23 Jul 2025 19:39

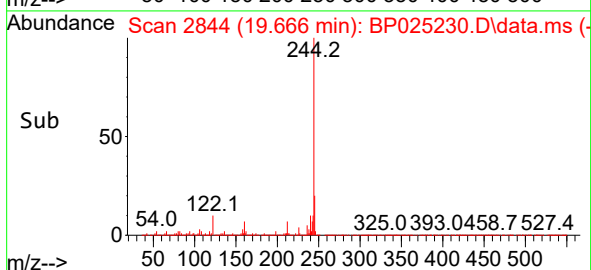
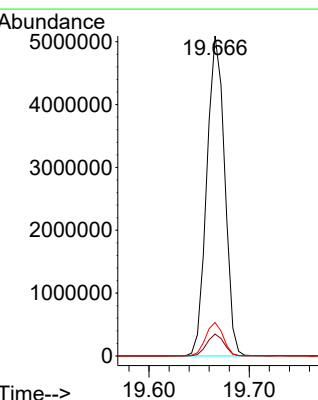
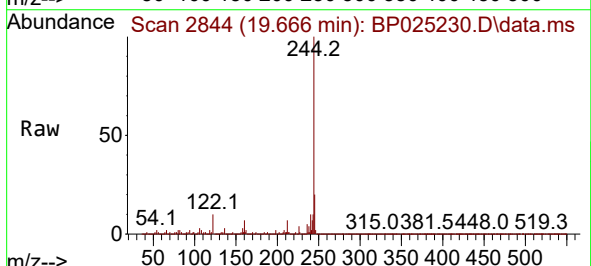
Tgt Ion:244 Resp: 6284821

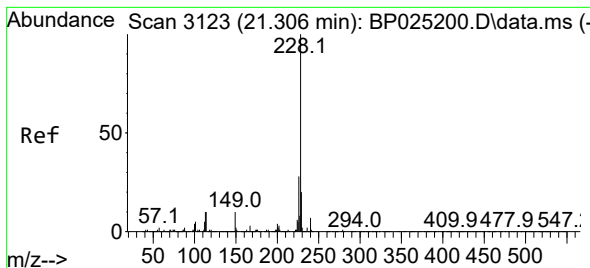
Ion Ratio Lower Upper

244 100

212 6.8 6.6 9.8

122 10.4 10.3 15.5





#81

Benzo(a)anthracene

Concen: 4.447 ng m

RT: 21.313 min Scan# 3123

Delta R.T. 0.006 min

Lab File: BP025230.D

Acq: 23 Jul 2025 19:39

Instrument :

BNA_P

ClientSampleId :

OU4-TS-37-071725RE

Tgt Ion:228 Resp: 877128

Ion Ratio Lower Upper

228 100

226 44.6 22.3 33.5

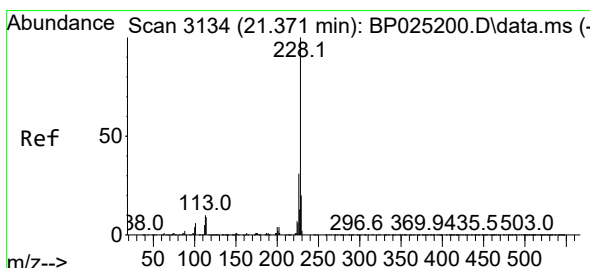
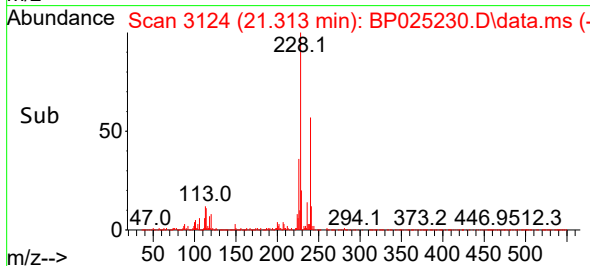
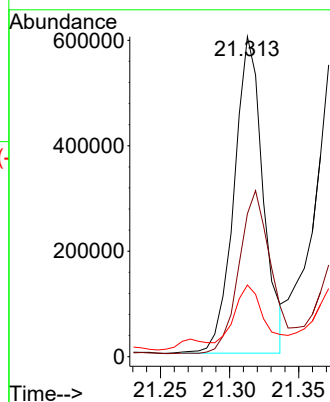
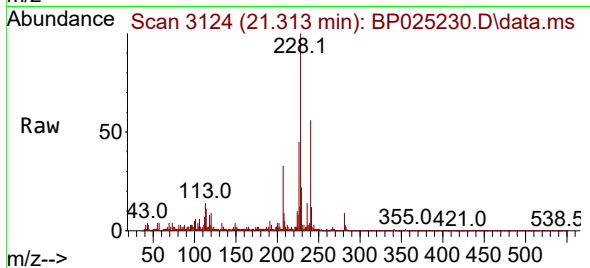
229 22.4 16.2 24.2

Manual Integrations

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Reviewed By :Rahul Chavli 07/24/2025

Supervised By :Jagrut Upadhyay 07/24/2025



#83

Chrysene

Concen: 5.439 ng m

RT: 21.372 min Scan# 3134

Delta R.T. 0.001 min

Lab File: BP025230.D

Acq: 23 Jul 2025 19:39

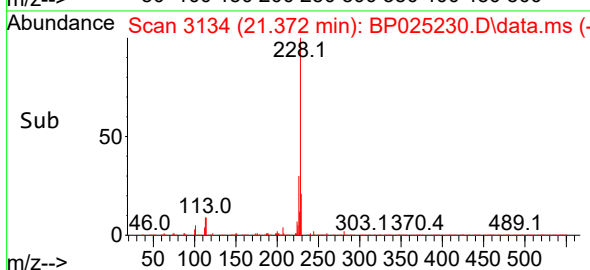
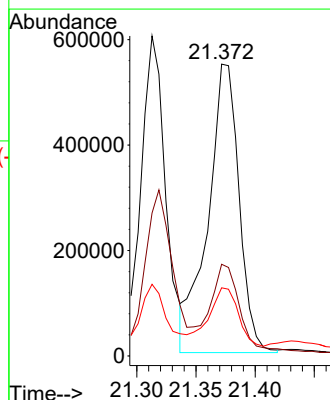
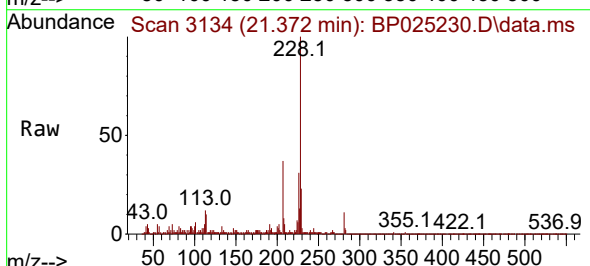
Tgt Ion:228 Resp: 1001609

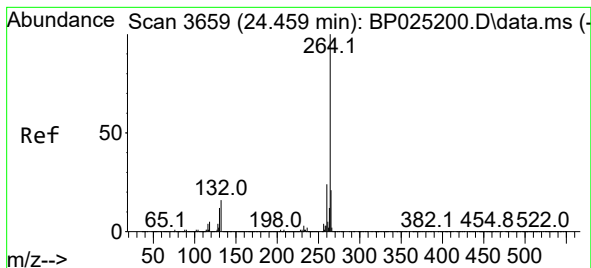
Ion Ratio Lower Upper

228 100

226 31.4 24.6 37.0

229 23.3 16.0 24.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.466 min Scan# 3660

Delta R.T. 0.006 min

Lab File: BP025230.D

Acq: 23 Jul 2025 19:39

Instrument :

BNA_P

ClientSampleId :

OU4-TS-37-071725RE

Tgt Ion:264 Resp: 3621930

Ion Ratio Lower Upper

264 100

260 23.3 19.0 28.6

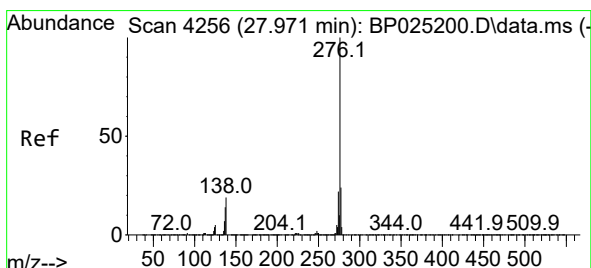
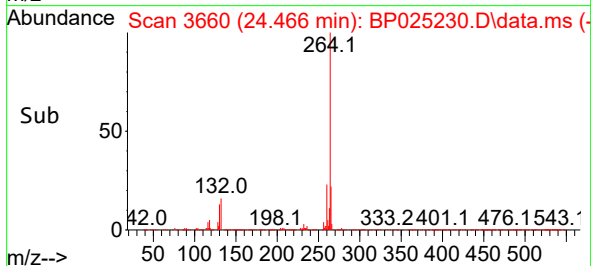
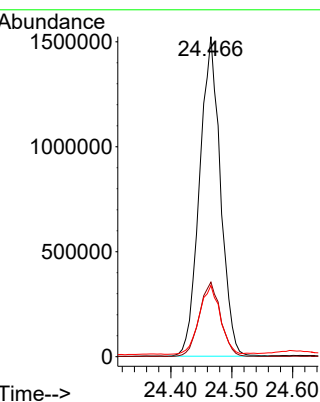
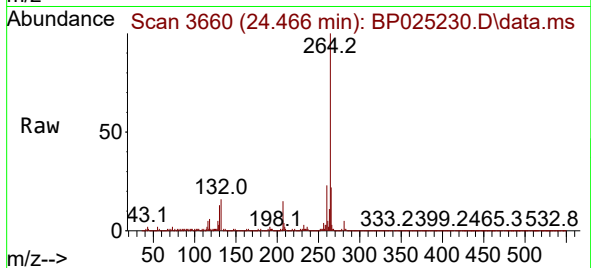
265 22.2 17.5 26.3

Manual Integrations

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Reviewed By :Rahul Chavli 07/24/2025

Supervised By :Jagrut Upadhyay 07/24/2025



#87

Indeno(1,2,3-cd)pyrene

Concen: 2.882 ng m

RT: 28.012 min Scan# 4263

Delta R.T. 0.042 min

Lab File: BP025230.D

Acq: 23 Jul 2025 19:39

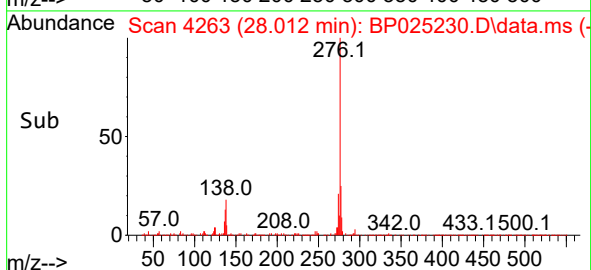
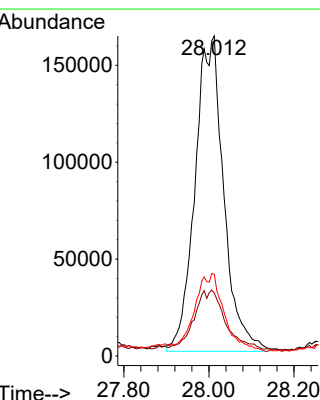
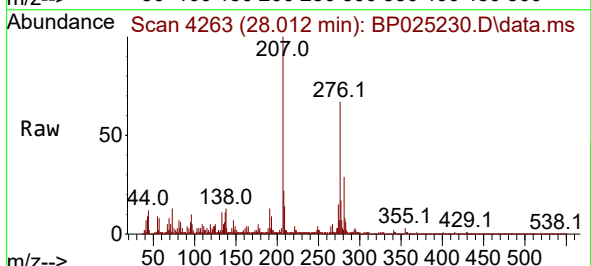
Tgt Ion:276 Resp: 762921

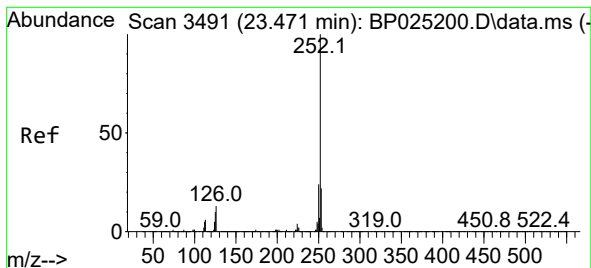
Ion Ratio Lower Upper

276 100

138 8.3 12.8 19.2#

277 10.9 20.3 30.5#





#88

Benzo(b)fluoranthene

Concen: 6.011 ng

RT: 23.489 min Scan# 3491

Delta R.T. 0.018 min

Lab File: BP025230.D

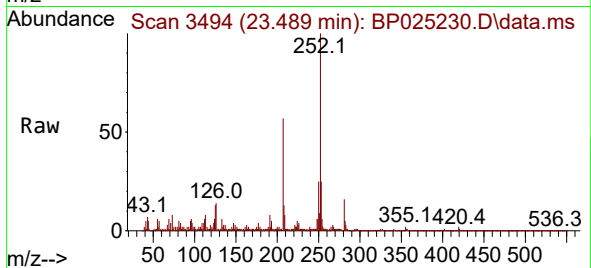
Acq: 23 Jul 2025 19:39

Instrument :

BNA_P

ClientSampleId :

OU4-TS-37-071725RE



Tgt Ion:252 Resp: 1246129

Ion Ratio Lower Upper

252 100

253 24.7 18.0 27.0

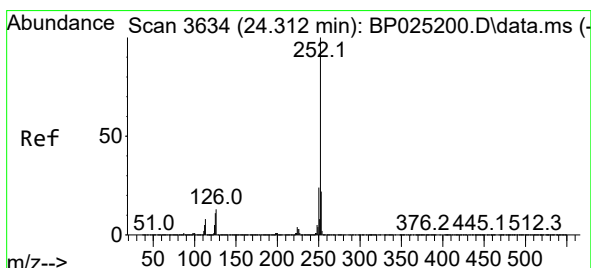
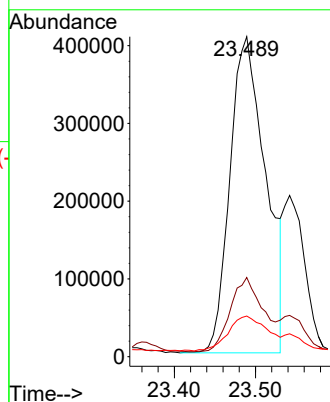
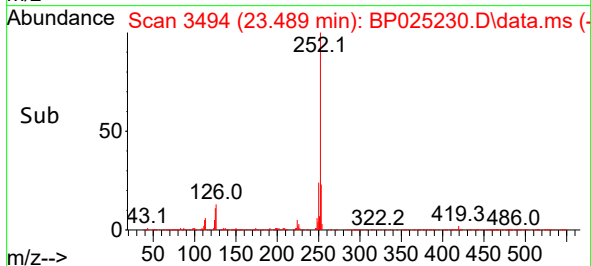
125 12.7 7.8 11.8

Manual Integrations

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Reviewed By :Rahul Chavli 07/24/2025

Supervised By :Jagrut Upadhyay 07/24/2025



#90

Benzo(a)pyrene

Concen: 5.257 ng

RT: 24.319 min Scan# 3635

Delta R.T. 0.006 min

Lab File: BP025230.D

Acq: 23 Jul 2025 19:39

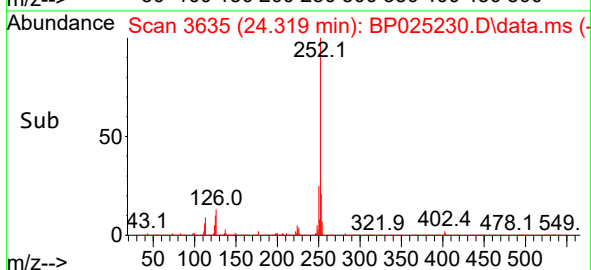
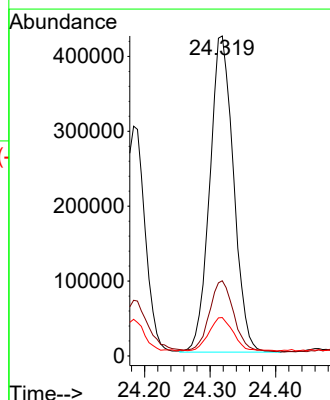
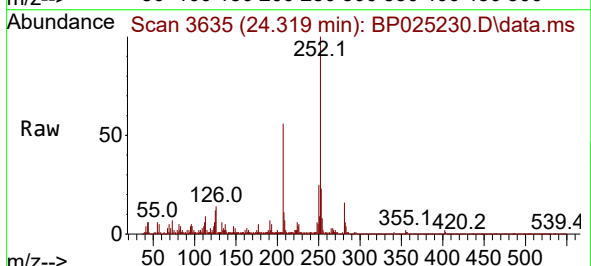
Tgt Ion:252 Resp: 1063421

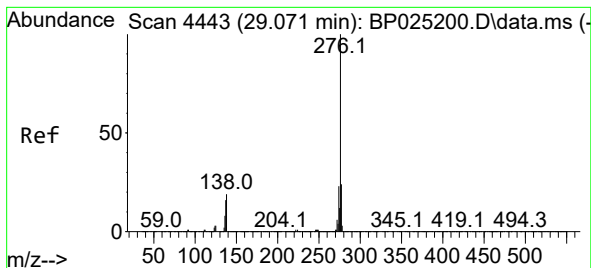
Ion Ratio Lower Upper

252 100

253 23.5 17.8 26.6

125 12.0 8.6 12.8





#92

Benzo(g,h,i)perylene

Concen: 3.582 ng

RT: 29.077 min Scan# 44

Delta R.T. 0.006 min

Lab File: BP025230.D

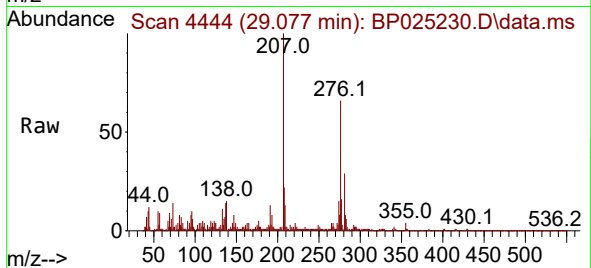
Acq: 23 Jul 2025 19:39

Instrument :

BNA_P

ClientSampleId :

OU4-TS-37-071725RE



Tgt Ion: 276 Resp: 760230

Ion Ratio Lower Upper

276 100

277 24.5 19.2 28.8

138 22.3 15.4 23.2

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 07/24/2025

Supervised By :Jagrut Upadhyay 07/24/2025

