

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP110425\
 Data File : BP026073.D
 Acq On : 04 Nov 2025 16:34
 Operator : RC/JU
 Sample : Q3515-01DL 4X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SU-04-103125DL

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 11/05/2025
 Supervised By :Jagrut Upadhyay 11/05/2025

Quant Time: Nov 04 16:54:01 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP102925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 30 11:51:34 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.690	152	385433	20.000	ng	0.00
21) Naphthalene-d8	10.454	136	1443148	20.000	ng	0.00
39) Acenaphthene-d10	14.313	164	871335	20.000	ng	0.00
64) Phenanthrene-d10	17.125	188	1772988	20.000	ng	0.00
76) Chrysene-d12	21.589	240	1966096	20.000	ng	0.02
86) Perylene-d12	24.924	264	2364908	20.000	ng	0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.302	112	439393	18.811	ng	0.00
7) Phenol-d6	6.860	99	558334	18.780	ng	0.00
23) Nitrobenzene-d5	8.825	82	320965	13.865	ng	0.00
42) 2,4,6-Tribromophenol	15.842	330	199392	21.167	ng	0.01
45) 2-Fluorobiphenyl	12.925	172	713888	11.773	ng	0.00
79) Terphenyl-d14	19.872	244	1018448	10.524	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.501	128	497127	6.317	ng	99
37) 2-Methylnaphthalene	12.113	142	729229	13.239	ng	99
38) 1-Methylnaphthalene	12.337	142	669946	12.520	ng	99
49) Acenaphthylene	14.037	152	770392	10.069	ng	98
52) Acenaphthene	14.390	154	268044	5.103	ng	99
55) Dibenzofuran	14.725	168	469638	5.918	ng	# 95
58) Fluorene	15.389	166	1157979	18.625	ng	99
71) Phenanthrene	17.172	178	6847303	66.352	ng	99
72) Anthracene	17.272	178	1602684	15.667	ng	100
73) Carbazole	17.536	167	257927	2.664	ng	95
75) Fluoranthene	19.272	202	5546404	46.074	ng	98
78) Pyrene	19.648	202	6198359	46.613	ng	99
81) Benzo(a)anthracene	21.571	228	2749637	20.352	ng	92
83) Chrysene	21.630	228	2700441	21.100	ng	97
87) Indeno(1,2,3-cd)pyrene	28.712	276	1213522	6.951	ng	# 88
88) Benzo(b)fluoranthene	23.865	252	2435899	16.592	ng	97
89) Benzo(k)fluoranthene	23.936	252	949104m	6.331	ng	
90) Benzo(a)pyrene	24.765	252	2276027	16.875	ng	97
91) Dibenzo(a,h)anthracene	28.783	278	372247	2.620	ng	# 77
92) Benzo(g,h,i)perylene	29.865	276	1171206	8.566	ng	96

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

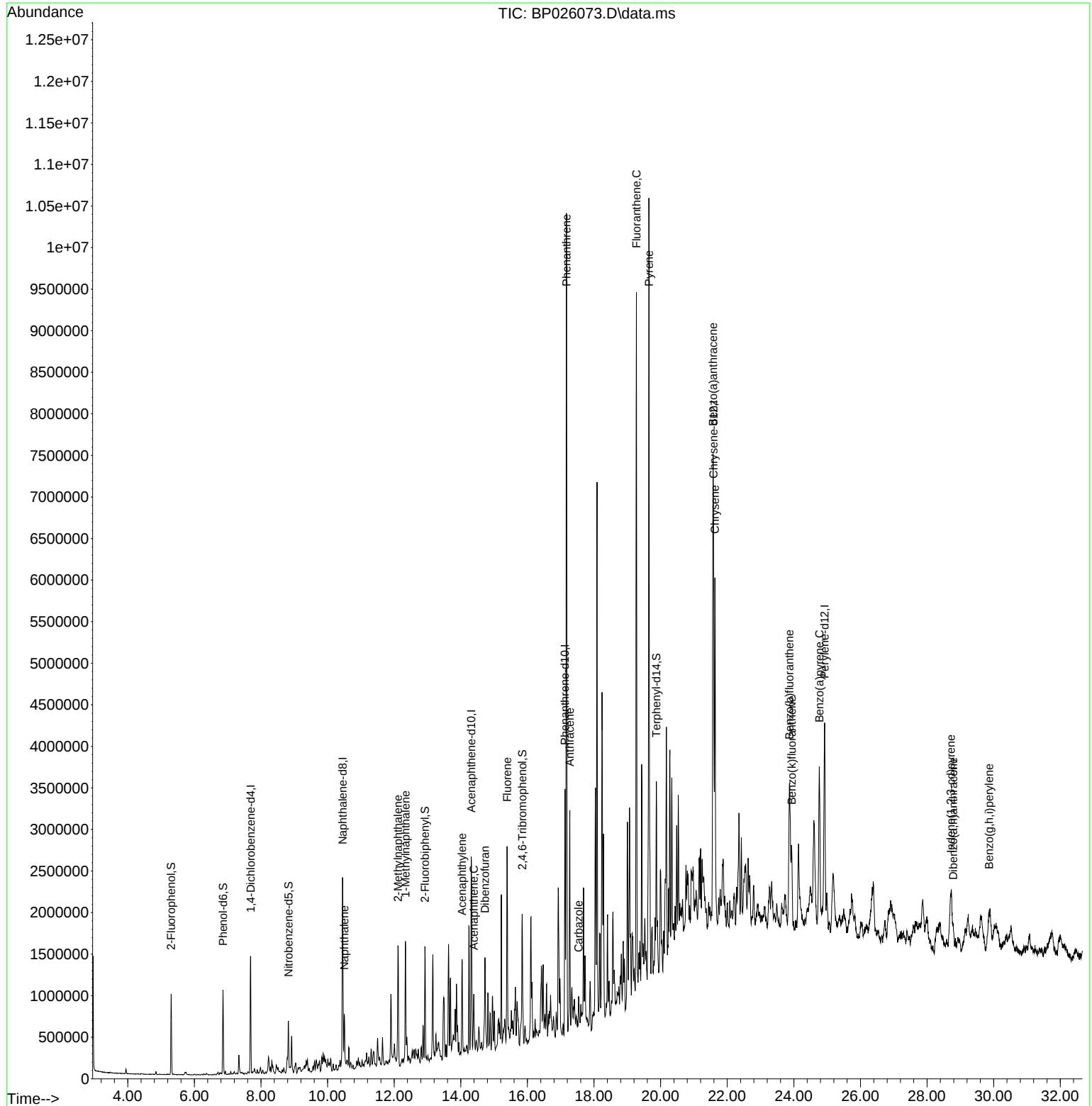
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP110425\
Data File : BP026073.D
Acq On : 04 Nov 2025 16:34
Operator : RC/JU
Sample : Q3515-01DL 4X
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ALS Vial : 6 Sample Multiplier: 1

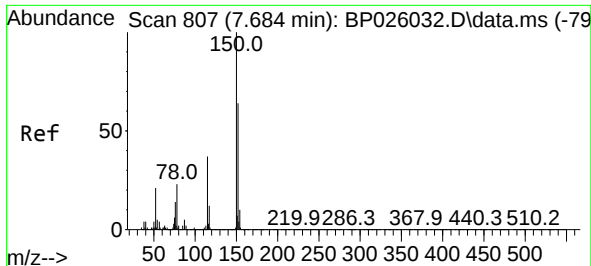
Instrument :
BNA_P
ClientSampleId :
SU-04-103125DL

Quant Time: Nov 04 16:54:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP102925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 30 11:51:34 2025
Response via : Initial Calibration

Manual Integrations
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Reviewed By :Rahul Chavli 11/05/2025
Supervised By :Jagrut Upadhyay 11/05/2025





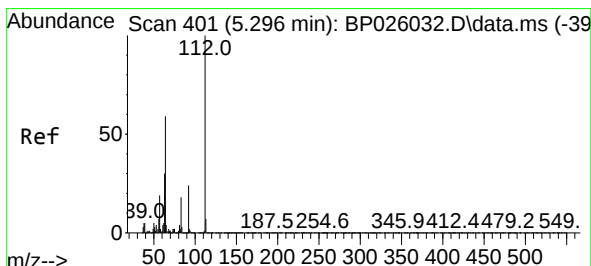
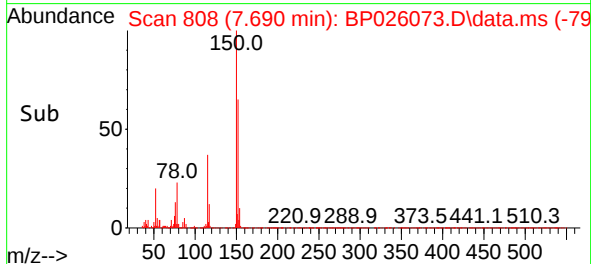
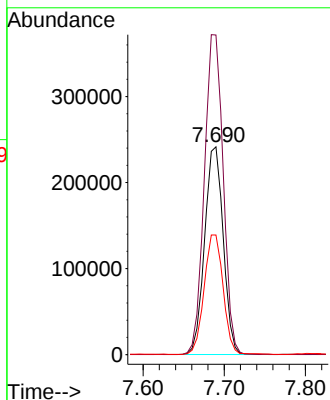
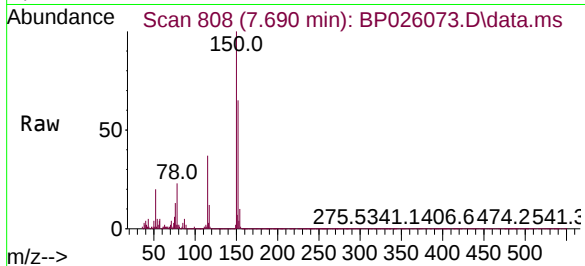
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1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.690 min Scan# 807
Delta R.T. -0.000 min
Lab File: BP026073.D
Acq: 04 Nov 2025 16:34

Instrument :
BNA_P
ClientSampleId :
SU-04-103125DL

Tgt Ion:152 Resp: 385433
Ion Ratio Lower Upper
152 100
150 153.8 125.7 188.5
115 57.5 46.4 69.6

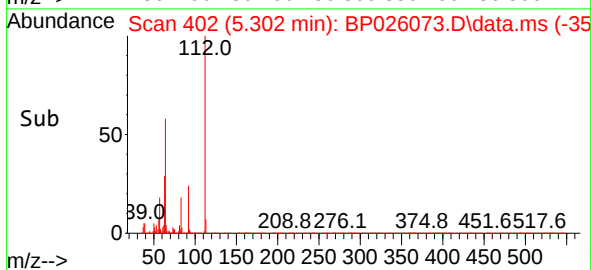
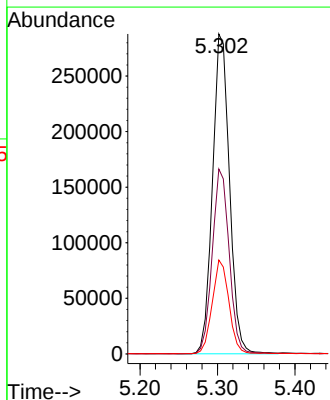
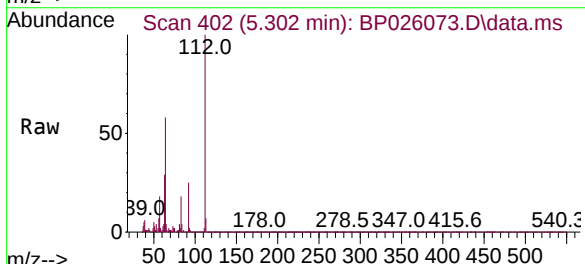
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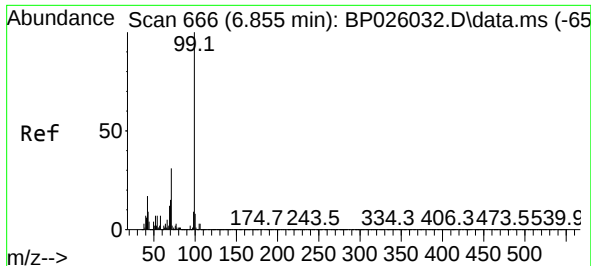
Reviewed By :Rahul Chavli 11/05/2025
Supervised By :Jagrut Upadhyay 11/05/2025



#5
2-Fluorophenol
Concen: 18.811 ng
RT: 5.302 min Scan# 402
Delta R.T. 0.006 min
Lab File: BP026073.D
Acq: 04 Nov 2025 16:34

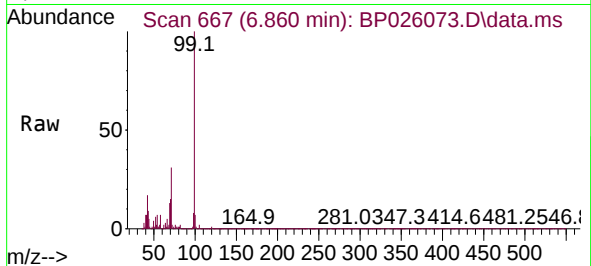
Tgt Ion:112 Resp: 439393
Ion Ratio Lower Upper
112 100
64 57.8 47.4 71.2
63 29.3 24.2 36.4





#7
Phenol-d6
Concen: 18.780 ng
RT: 6.860 min Scan# 60
Delta R.T. 0.006 min
Lab File: BP026073.D
Acq: 04 Nov 2025 16:34

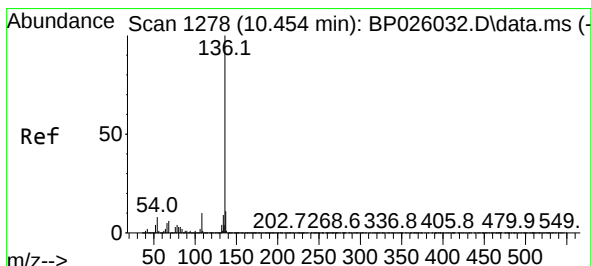
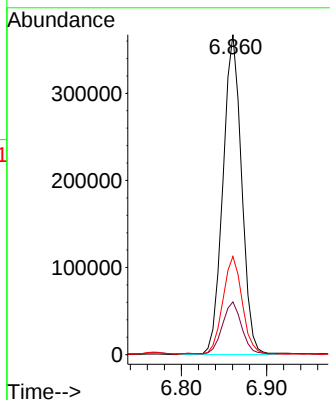
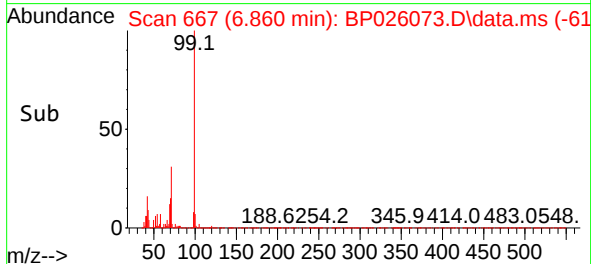
Instrument :
BNA_P
ClientSampleId :
SU-04-103125DL



Tgt Ion: 99 Resp: 558334
Ion Ratio Lower Upper
99 100
42 16.5 13.7 20.5
71 30.7 24.4 36.6

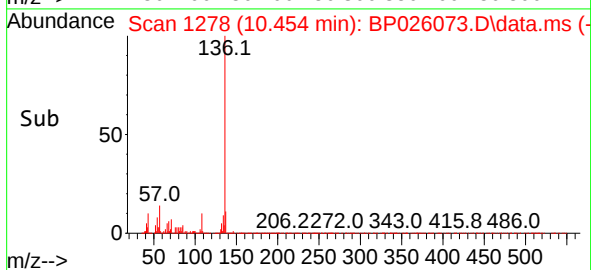
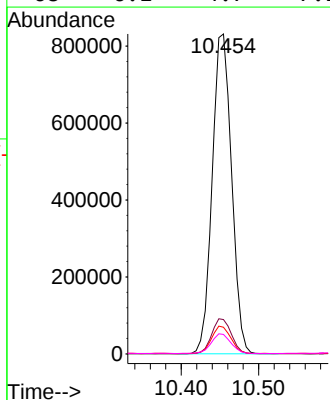
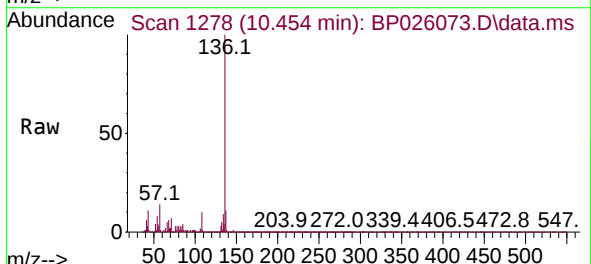
Manual Integrations
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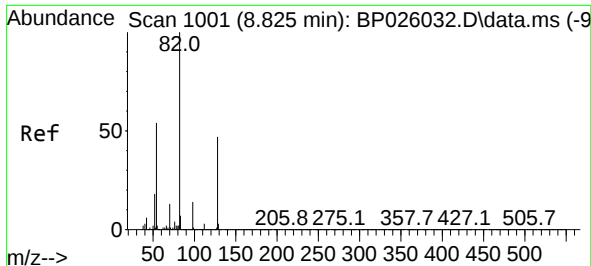
Reviewed By :Rahul Chavli 11/05/2025
Supervised By :Jagrut Upadhyay 11/05/2025



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.454 min Scan# 1278
Delta R.T. 0.000 min
Lab File: BP026073.D
Acq: 04 Nov 2025 16:34

Tgt Ion:136 Resp: 1443148
Ion Ratio Lower Upper
136 100
137 10.7 8.8 13.2
54 8.3 6.6 10.0
68 6.1 4.7 7.1





#23
Nitrobenzene-d5
Concen: 13.865 ng
RT: 8.825 min Scan# 1001
Delta R.T. 0.000 min
Lab File: BP026073.D
Acq: 04 Nov 2025 16:34

Instrument :

BNA_P

ClientSampleId :

SU-04-103125DL

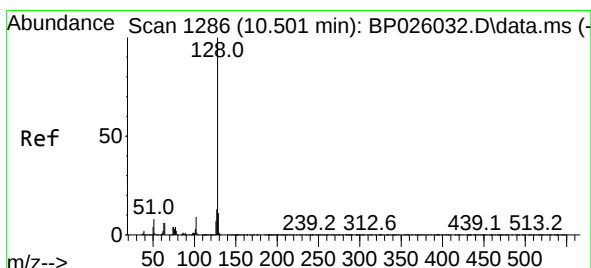
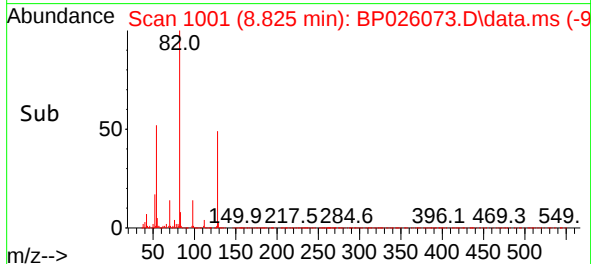
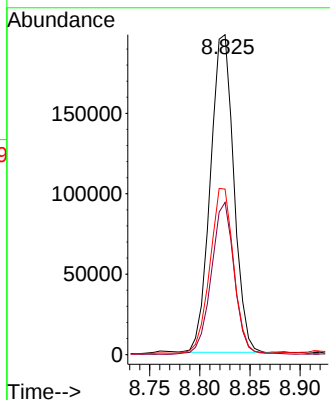
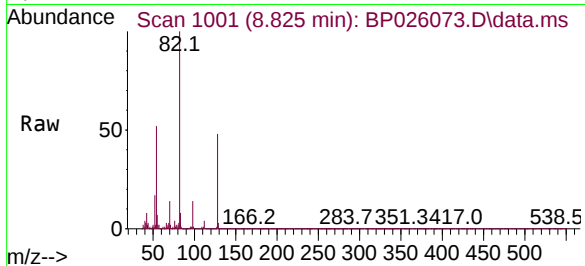
Tgt Ion: 82 Resp: 320965
Ion Ratio Lower Upper
82 100
128 47.6 37.4 56.0
54 51.7 42.7 64.1

Manual Integrations

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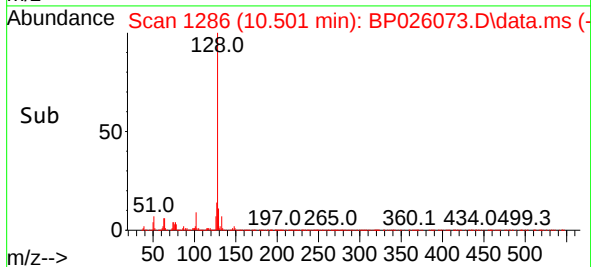
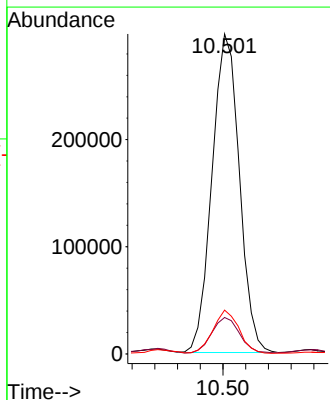
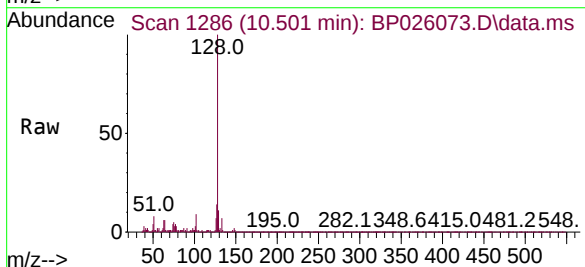
Reviewed By :Rahul Chavli 11/05/2025

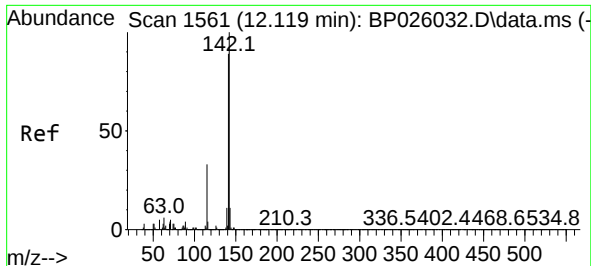
Supervised By :Jagrut Upadhyay 11/05/2025



#31
Naphthalene
Concen: 6.317 ng
RT: 10.501 min Scan# 1286
Delta R.T. 0.000 min
Lab File: BP026073.D
Acq: 04 Nov 2025 16:34

Tgt Ion:128 Resp: 497127
Ion Ratio Lower Upper
128 100
129 11.4 8.7 13.1
127 13.7 10.5 15.7





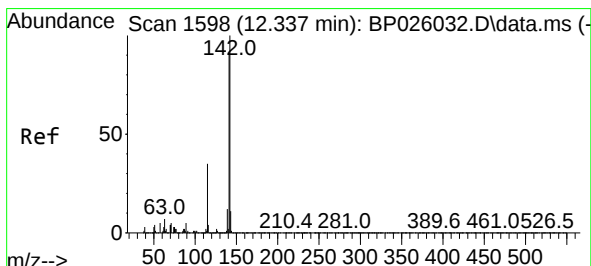
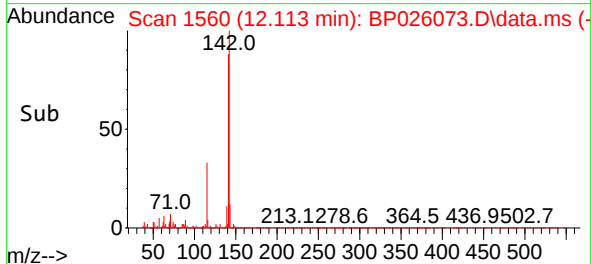
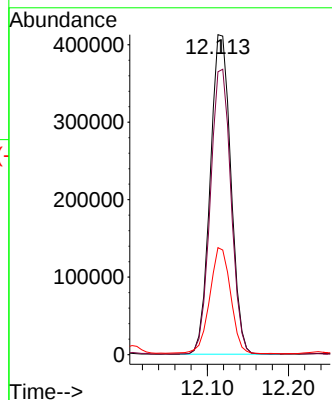
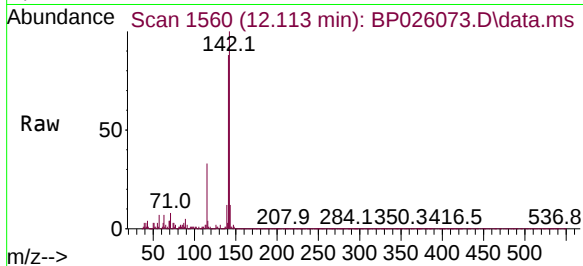
#37
2-Methylnaphthalene
Concen: 13.239 ng
RT: 12.113 min Scan# 1561
Delta R.T. 0.000 min
Lab File: BP026073.D
Acq: 04 Nov 2025 16:34

Instrument :
BNA_P
ClientSampleId :
SU-04-103125DL

Tgt Ion:142 Resp: 729229
Ion Ratio Lower Upper
142 100
141 88.4 71.6 107.4
115 33.4 26.6 39.8

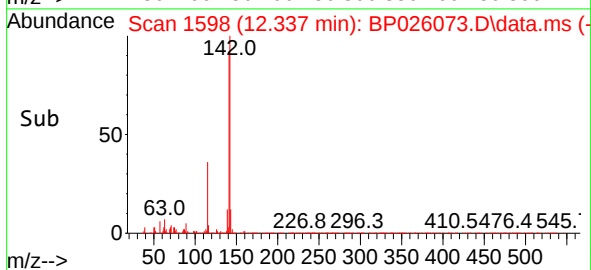
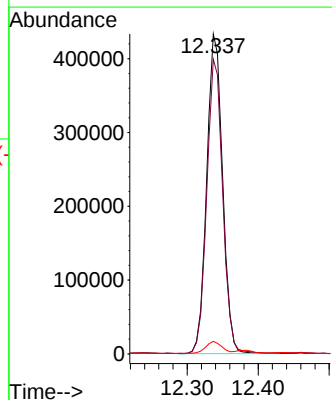
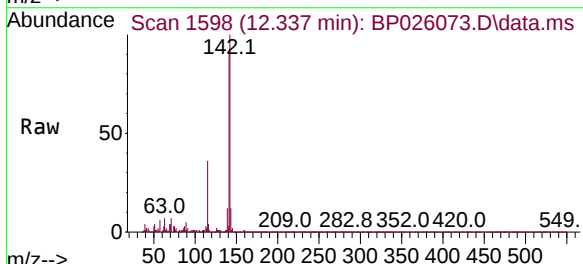
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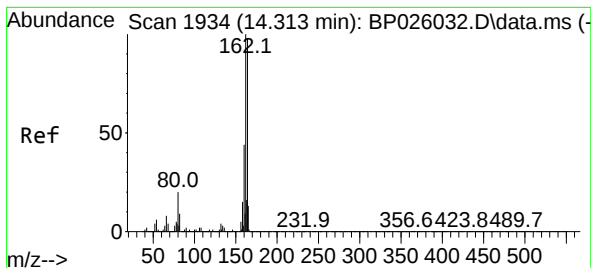
Reviewed By :Rahul Chavli 11/05/2025
Supervised By :Jagrut Upadhyay 11/05/2025



#38
1-Methylnaphthalene
Concen: 12.520 ng
RT: 12.337 min Scan# 1598
Delta R.T. 0.001 min
Lab File: BP026073.D
Acq: 04 Nov 2025 16:34

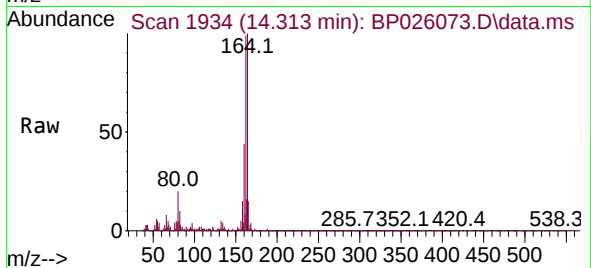
Tgt Ion:142 Resp: 669946
Ion Ratio Lower Upper
142 100
141 92.1 72.7 109.1
116 3.9 2.9 4.3





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.313 min Scan# 1934
Delta R.T. -0.006 min
Lab File: BP026073.D
Acq: 04 Nov 2025 16:34

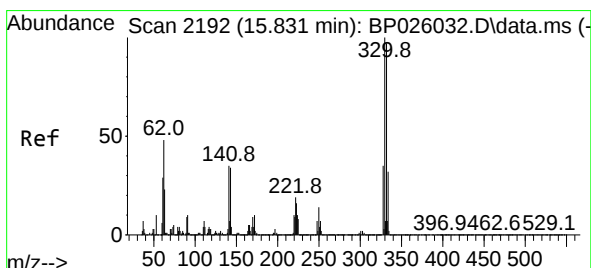
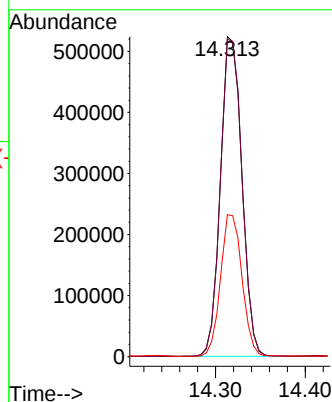
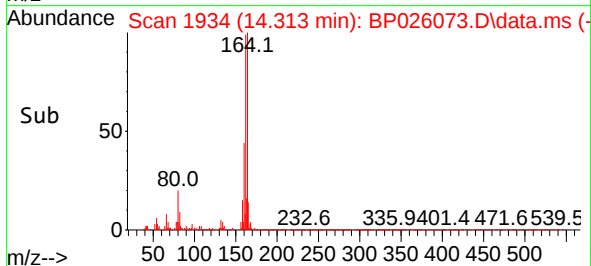
Instrument :
BNA_P
ClientSampleId :
SU-04-103125DL



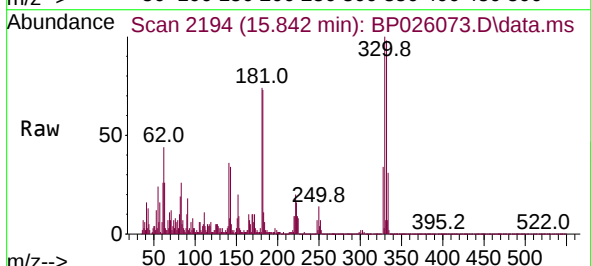
Tgt Ion:164 Resp: 871335
Ion Ratio Lower Upper
164 100
162 99.2 81.5 122.3
160 44.3 36.2 54.4

Manual Integrations
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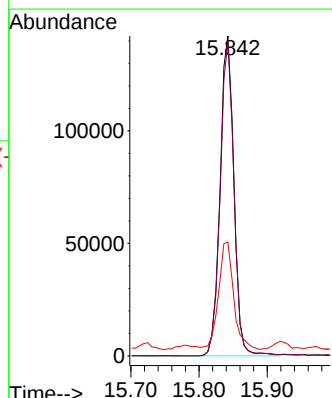
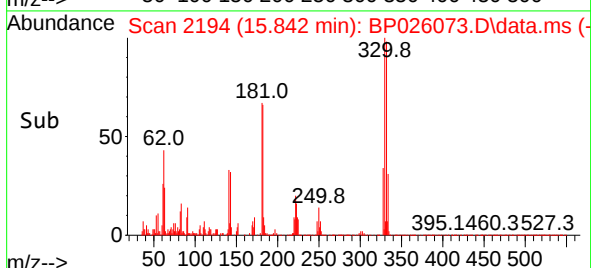
Reviewed By :Rahul Chavli 11/05/2025
Supervised By :Jagrut Upadhyay 11/05/2025

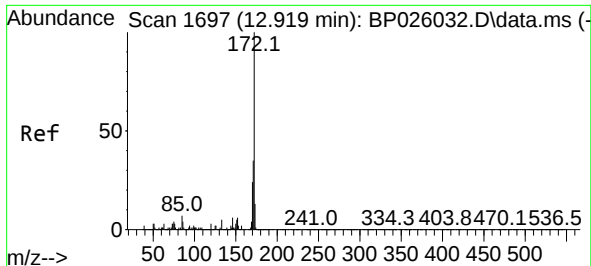


#42
2,4,6-Tribromophenol
Concen: 21.167 ng
RT: 15.842 min Scan# 2194
Delta R.T. 0.012 min
Lab File: BP026073.D
Acq: 04 Nov 2025 16:34



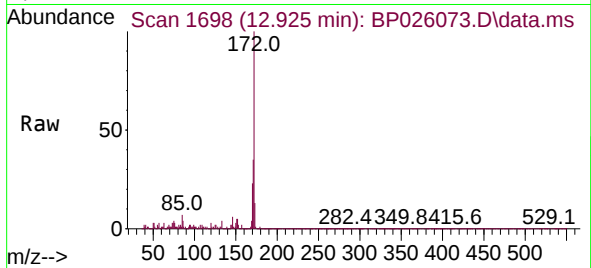
Tgt Ion:330 Resp: 199392
Ion Ratio Lower Upper
330 100
332 98.1 77.3 115.9
141 36.9 28.6 42.8





#45
2-Fluorobiphenyl
Concen: 11.773 ng
RT: 12.925 min Scan# 1698
Delta R.T. -0.006 min
Lab File: BP026073.D
Acq: 04 Nov 2025 16:34

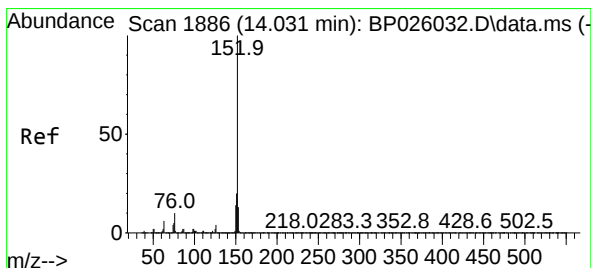
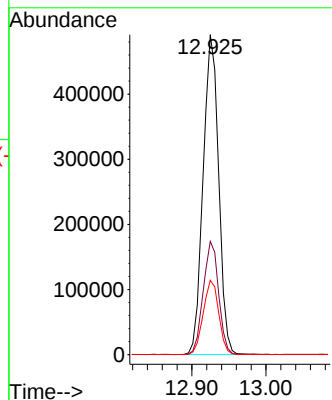
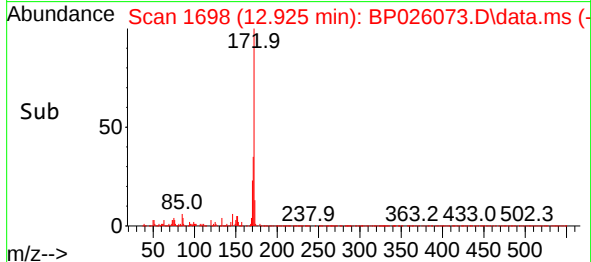
Instrument :
BNA_P
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SU-04-103125DL



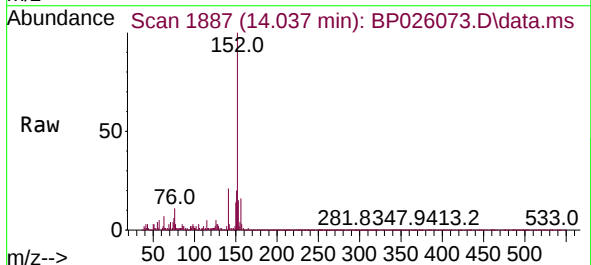
Tgt Ion:172 Resp: 71388
Ion Ratio Lower Upper
172 100
171 35.4 27.9 41.9
170 23.2 19.0 28.4

Manual Integrations
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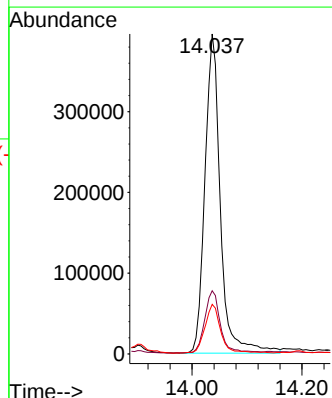
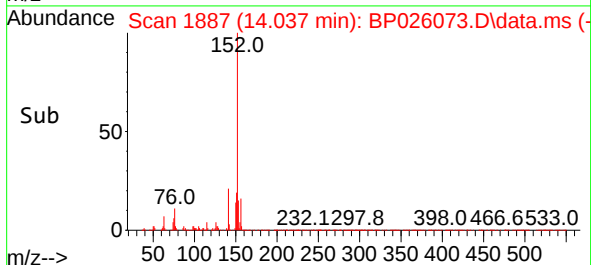
Reviewed By :Rahul Chavli 11/05/2025
Supervised By :Jagrut Upadhyay 11/05/2025

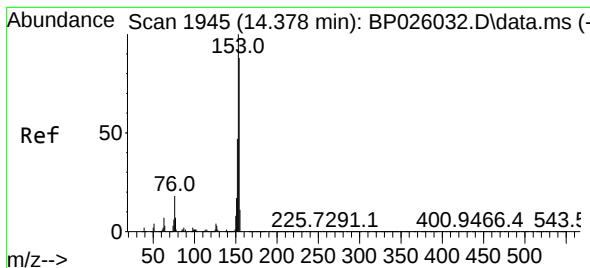


#49
Acenaphthylene
Concen: 10.069 ng
RT: 14.037 min Scan# 1887
Delta R.T. 0.001 min
Lab File: BP026073.D
Acq: 04 Nov 2025 16:34



Tgt Ion:152 Resp: 770392
Ion Ratio Lower Upper
152 100
151 19.7 15.9 23.9
153 15.5 10.6 16.0





#52

Acenaphthene

Concen: 5.103 ng

RT: 14.390 min Scan# 1945

Delta R.T. 0.007 min

Lab File: BP026073.D

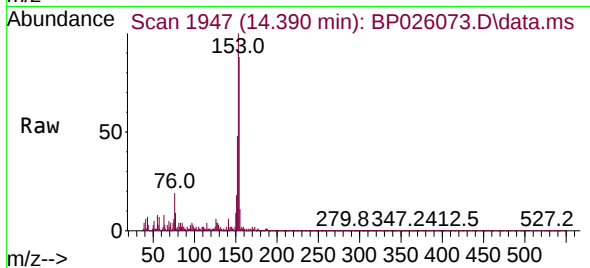
Acq: 04 Nov 2025 16:34

Instrument :

BNA_P

ClientSampleId :

SU-04-103125DL



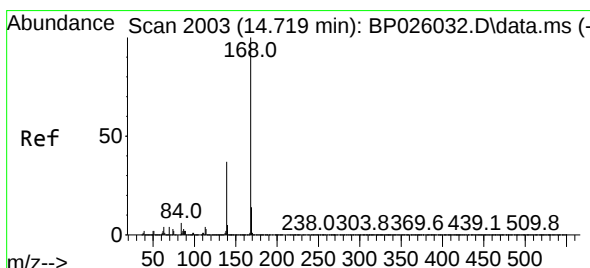
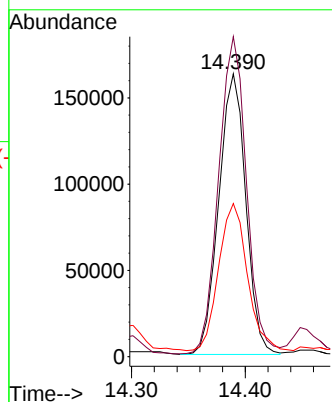
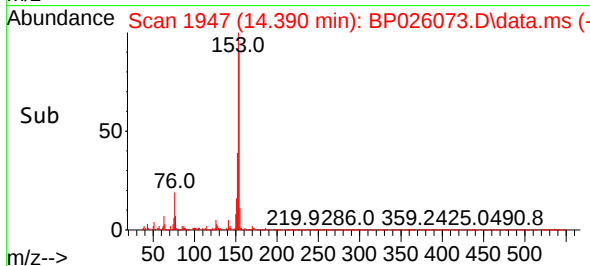
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Ion Ratio	Lower	Upper	
154	100		
153	113.2	91.0	136.4
152	54.1	42.7	64.1

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 11/05/2025

Supervised By :Jagrut Upadhyay 11/05/2025



#55

Dibenzofuran

Concen: 5.918 ng

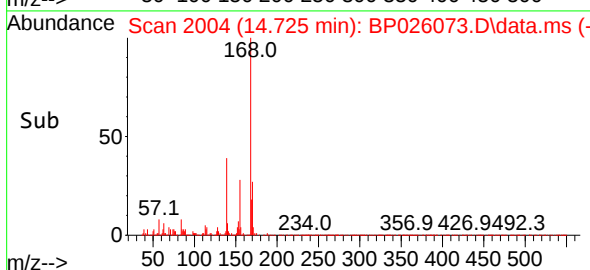
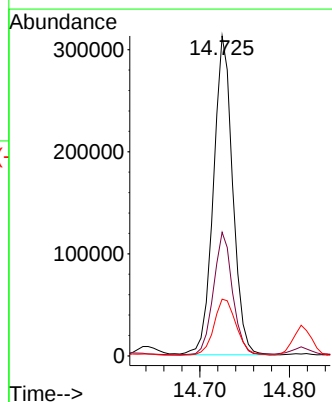
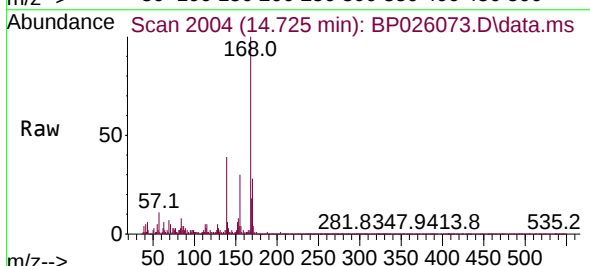
RT: 14.725 min Scan# 2004

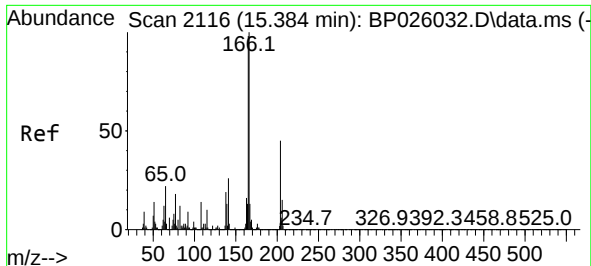
Delta R.T. -0.000 min

Lab File: BP026073.D

Acq: 04 Nov 2025 16:34

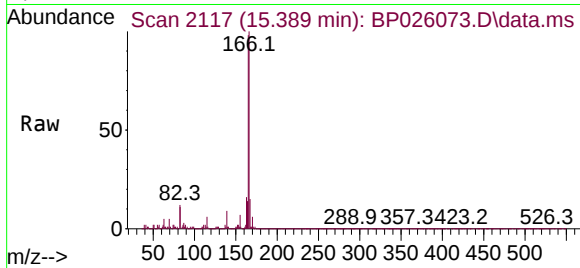
Tgt Ion:	168	Resp:	469638
Ion Ratio	Lower	Upper	
168	100		
139	38.6	29.7	44.5
169	17.7	11.0	16.4





#58
Fluorene
Concen: 18.625 ng
RT: 15.389 min Scan# 2116
Delta R.T. 0.006 min
Lab File: BP026073.D
Acq: 04 Nov 2025 16:34

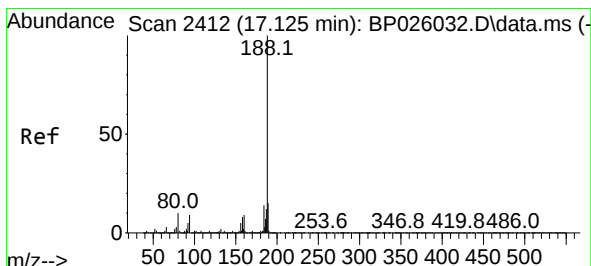
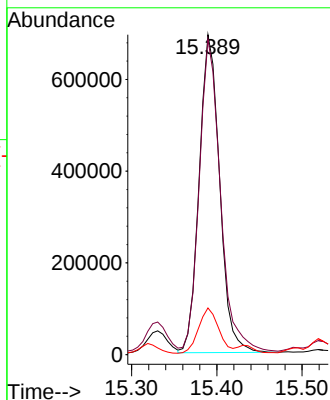
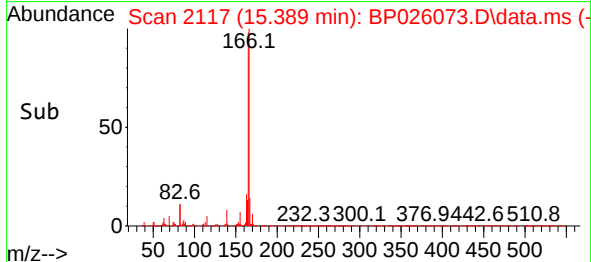
Instrument :
BNA_P
ClientSampleId :
SU-04-103125DL



Tgt Ion:166 Resp: 1157979
Ion Ratio Lower Upper
166 100
165 98.5 78.1 117.1
167 14.6 10.6 16.0

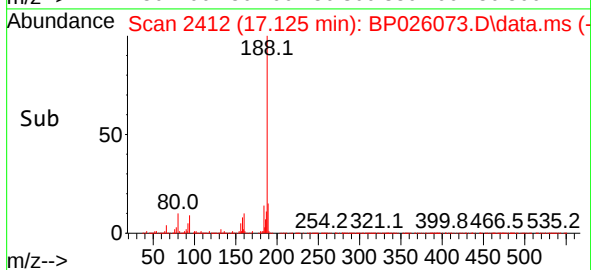
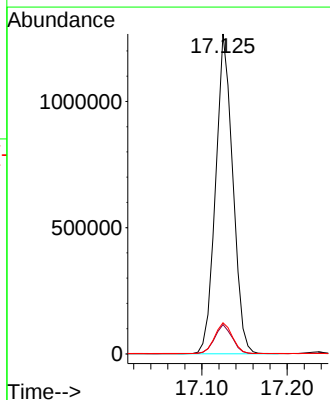
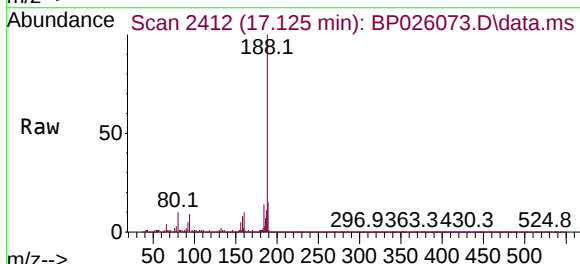
Manual Integrations
APPROVED

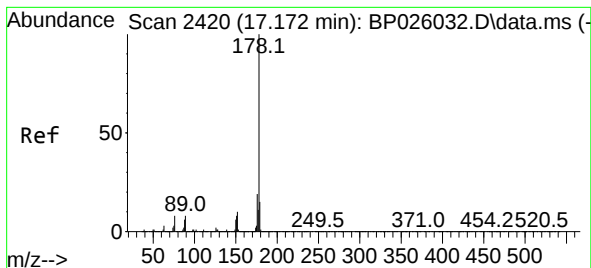
Reviewed By :Rahul Chavli 11/05/2025
Supervised By :Jagrut Upadhyay 11/05/2025



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.125 min Scan# 2412
Delta R.T. 0.000 min
Lab File: BP026073.D
Acq: 04 Nov 2025 16:34

Tgt Ion:188 Resp: 1772988
Ion Ratio Lower Upper
188 100
94 9.2 7.1 10.7
80 9.7 7.9 11.9





#71

Phenanthrene

Concen: 66.352 ng

RT: 17.172 min Scan# 2420

Delta R.T. 0.000 min

Lab File: BP026073.D

Acq: 04 Nov 2025 16:34

Instrument :

BNA_P

ClientSampleId :

SU-04-103125DL

Tgt Ion:178 Resp: 6847303

Ion Ratio Lower Upper

178 100

176 19.6 15.3 22.9

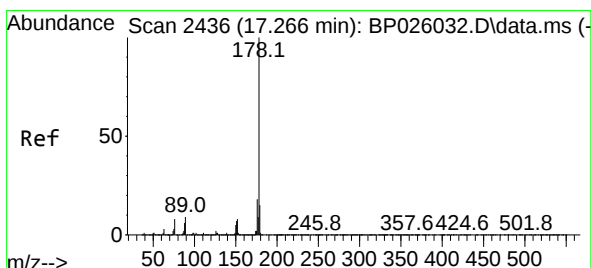
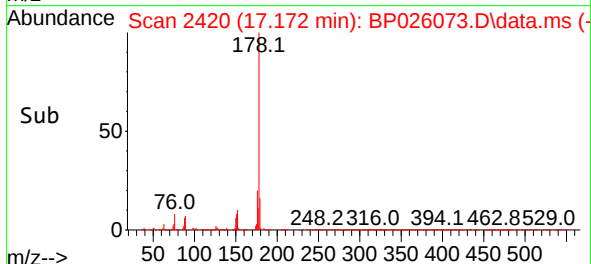
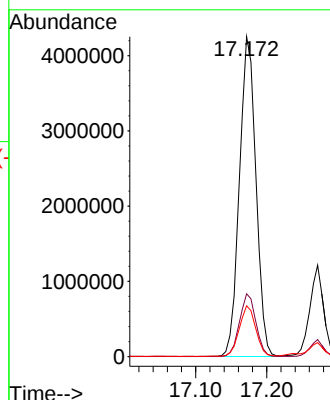
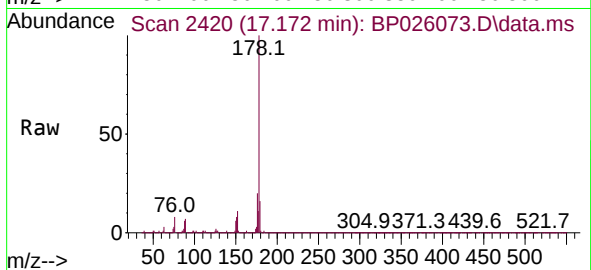
179 15.9 12.3 18.5

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Reviewed By :Rahul Chavli 11/05/2025

Supervised By :Jagrut Upadhyay 11/05/2025



#72

Anthracene

Concen: 15.667 ng

RT: 17.272 min Scan# 2437

Delta R.T. 0.012 min

Lab File: BP026073.D

Acq: 04 Nov 2025 16:34

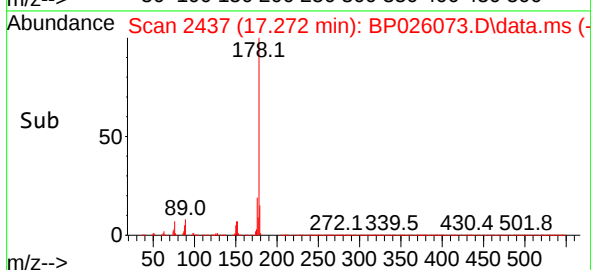
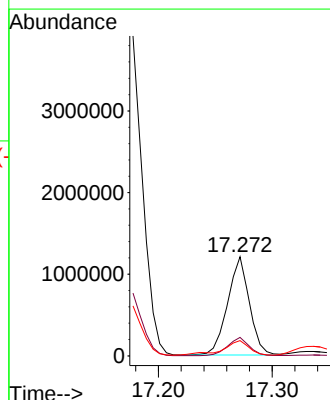
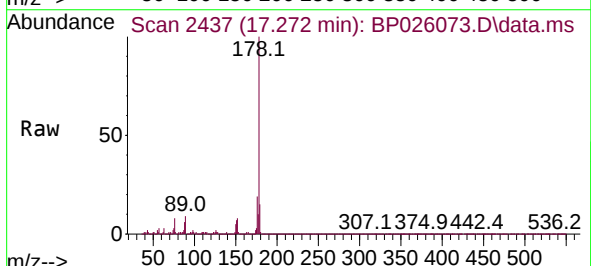
Tgt Ion:178 Resp: 1602684

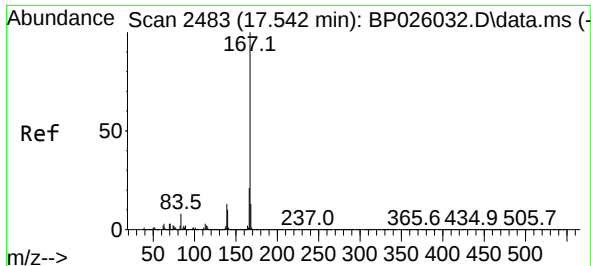
Ion Ratio Lower Upper

178 100

176 18.6 14.8 22.2

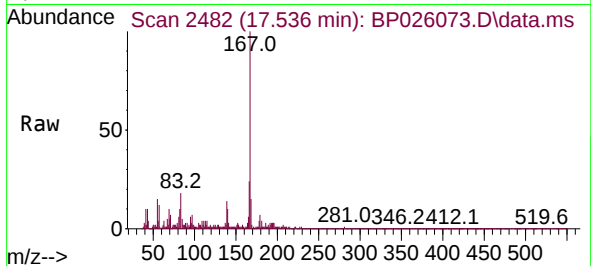
179 15.4 12.2 18.4





#73
 Carbazole
 Concen: 2.664 ng
 RT: 17.536 min Scan# 2483
 Delta R.T. 0.000 min
 Lab File: BP026073.D
 Acq: 04 Nov 2025 16:34

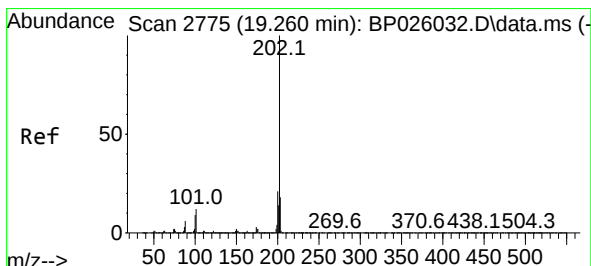
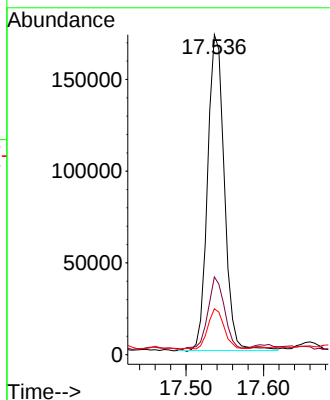
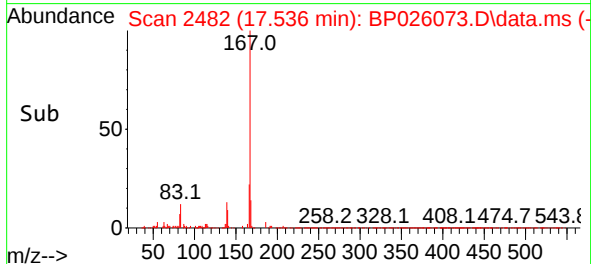
Instrument :
 BNA_P
 ClientSampleId :
 SU-04-103125DL



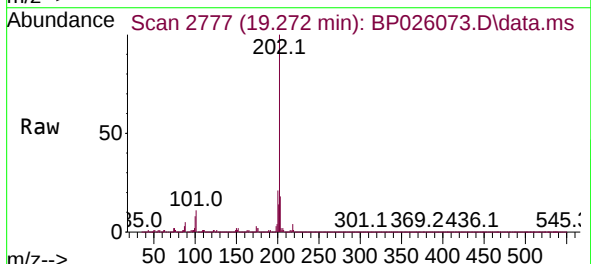
Tgt Ion:167 Resp: 257927
 Ion Ratio Lower Upper
 167 100
 166 24.3 17.1 25.7
 139 14.3 10.2 15.2

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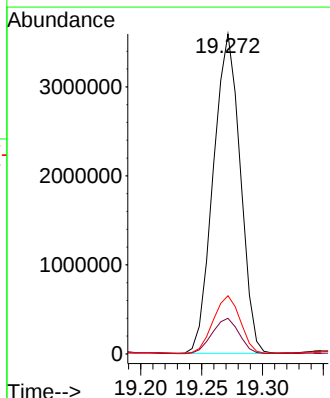
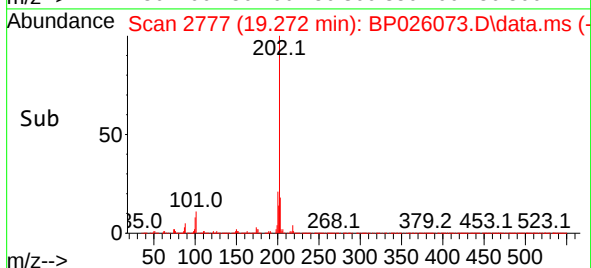
Reviewed By :Rahul Chavli 11/05/2025
 Supervised By :Jagrut Upadhyay 11/05/2025

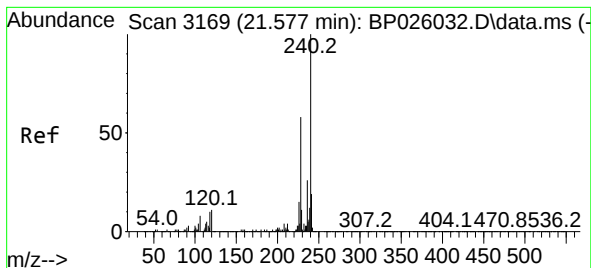


#75
 Fluoranthene
 Concen: 46.074 ng
 RT: 19.272 min Scan# 2777
 Delta R.T. 0.012 min
 Lab File: BP026073.D
 Acq: 04 Nov 2025 16:34



Tgt Ion:202 Resp: 5546404
 Ion Ratio Lower Upper
 202 100
 101 11.1 0.0 32.1
 203 18.2 0.0 37.6





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.589 min Scan# 3169

Delta R.T. 0.024 min

Lab File: BP026073.D

Acq: 04 Nov 2025 16:34

Instrument :

BNA_P

ClientSampleId :

SU-04-103125DL

Tgt Ion:240 Resp: 1966096

Ion Ratio Lower Upper

240 100

120 10.9 8.9 13.3

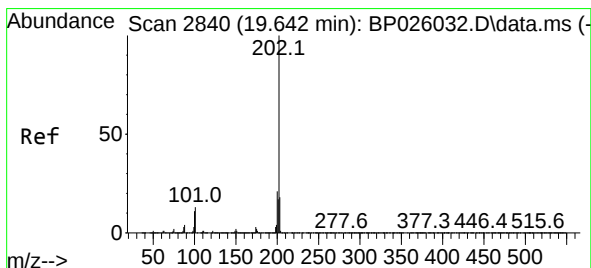
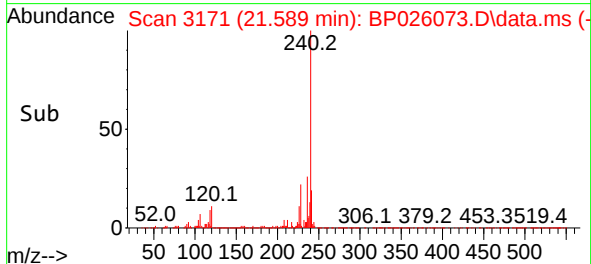
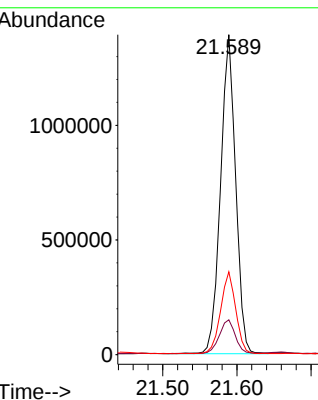
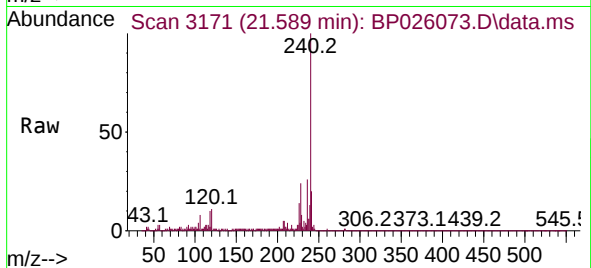
236 25.9 20.6 31.0

Manual Integrations

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Reviewed By :Rahul Chavli 11/05/2025

Supervised By :Jagrut Upadhyay 11/05/2025



#78

Pyrene

Concen: 46.613 ng

RT: 19.648 min Scan# 2841

Delta R.T. 0.012 min

Lab File: BP026073.D

Acq: 04 Nov 2025 16:34

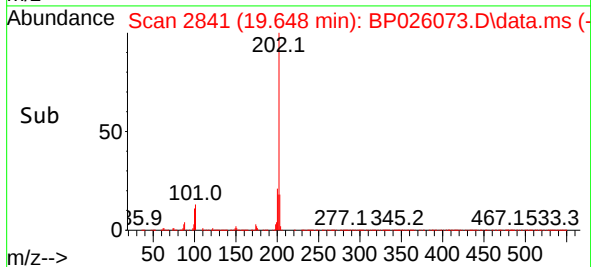
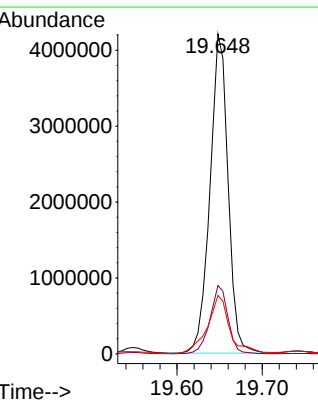
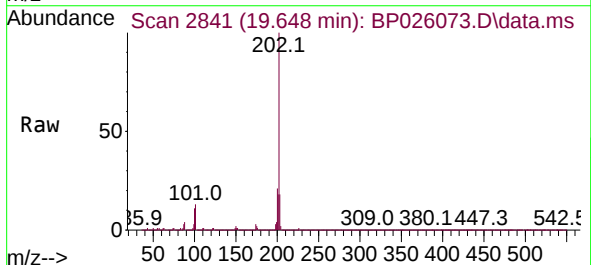
Tgt Ion:202 Resp: 6198359

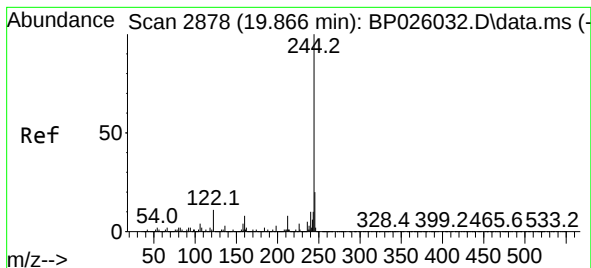
Ion Ratio Lower Upper

202 100

200 21.4 16.6 25.0

203 18.3 14.0 21.0





#79

Terphenyl-d14

Concen: 10.524 ng

RT: 19.872 min Scan# 2878

Delta R.T. 0.006 min

Lab File: BP026073.D

Acq: 04 Nov 2025 16:34

Instrument :

BNA_P

ClientSampleId :

SU-04-103125DL

Tgt Ion:244 Resp: 1018448

Ion Ratio Lower Upper

244 100

212 7.1 6.0 9.0

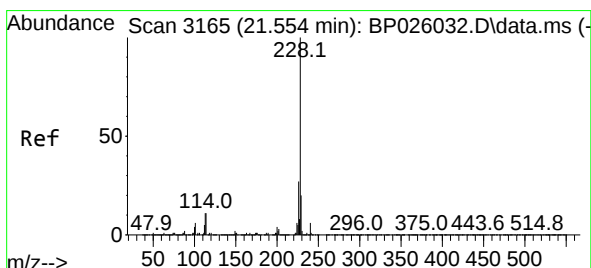
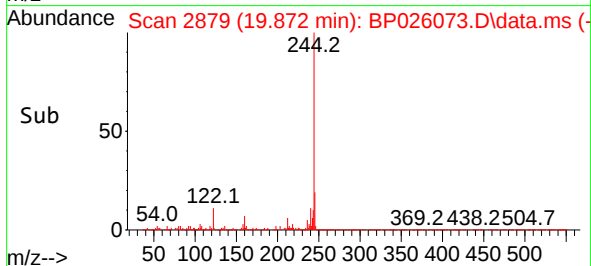
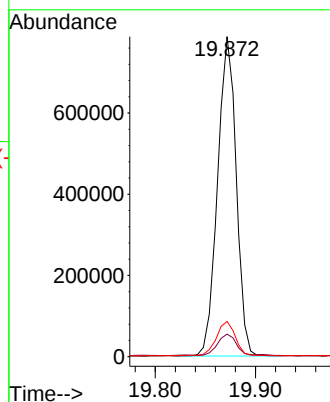
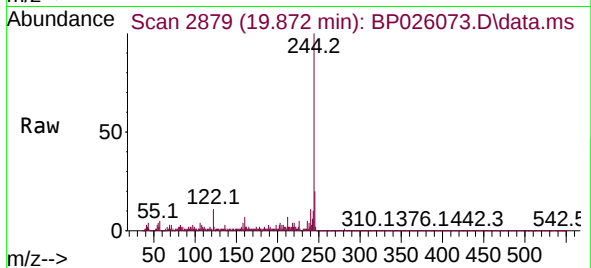
122 11.0 9.0 13.6

Manual Integrations

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Reviewed By :Rahul Chavli 11/05/2025

Supervised By :Jagrut Upadhyay 11/05/2025



#81

Benzo(a)anthracene

Concen: 20.352 ng

RT: 21.571 min Scan# 3168

Delta R.T. 0.023 min

Lab File: BP026073.D

Acq: 04 Nov 2025 16:34

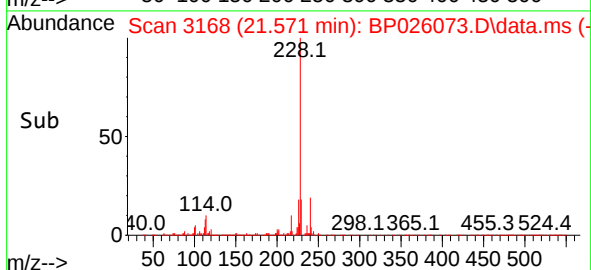
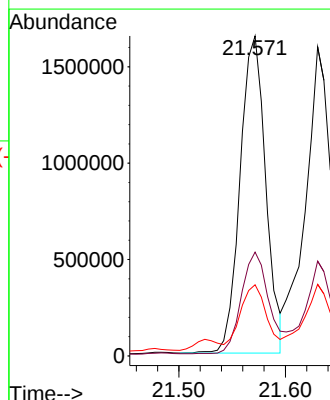
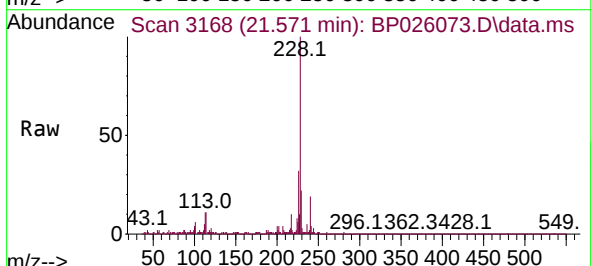
Tgt Ion:228 Resp: 2749637

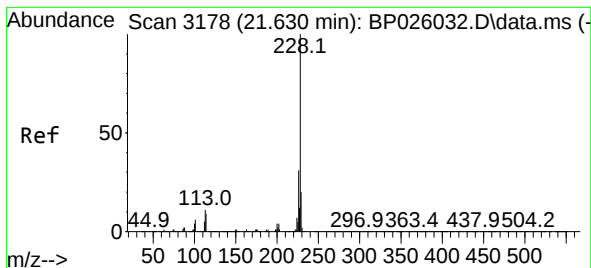
Ion Ratio Lower Upper

228 100

226 32.4 21.7 32.5

229 22.2 15.8 23.8





#83

Chrysene

Concen: 21.100 ng

RT: 21.630 min Scan# 3178

Delta R.T. 0.012 min

Lab File: BP026073.D

Acq: 04 Nov 2025 16:34

Instrument :

BNA_P

ClientSampleId :

SU-04-103125DL

Tgt Ion:228 Resp: 270044

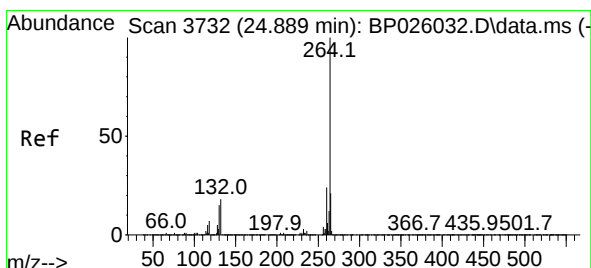
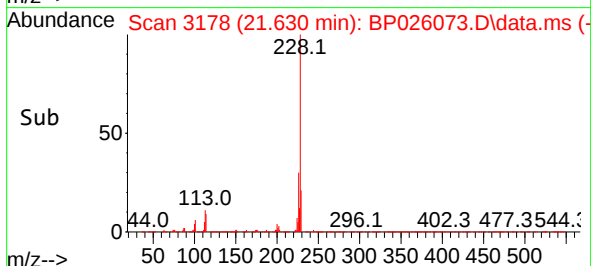
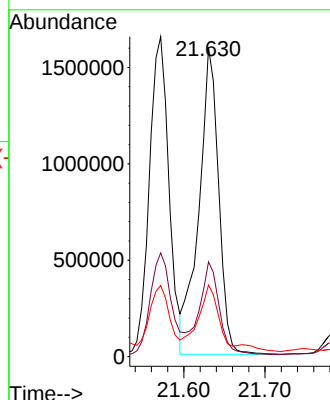
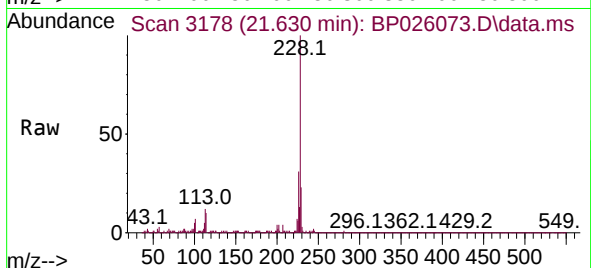
Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.4	36.6
229	23.2	16.0	24.0

Manual Integrations

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Reviewed By :Rahul Chavli 11/05/2025

Supervised By :Jagrut Upadhyay 11/05/2025



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.924 min Scan# 3738

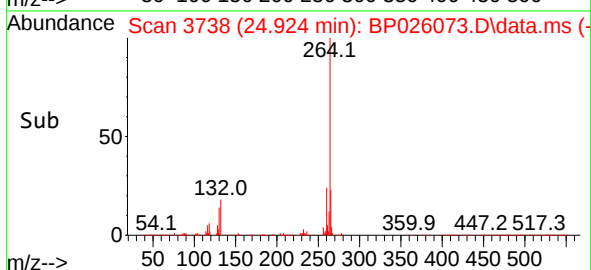
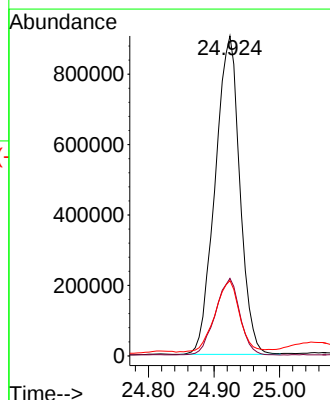
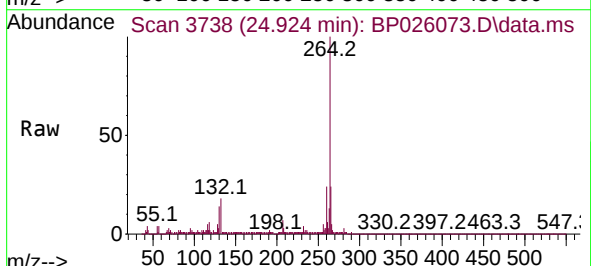
Delta R.T. 0.041 min

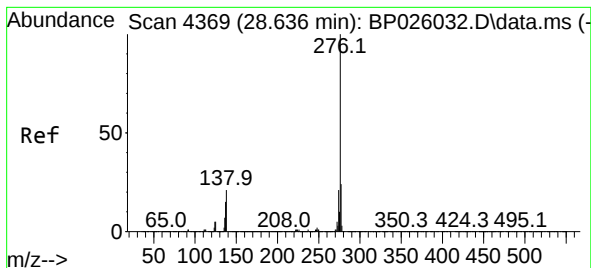
Lab File: BP026073.D

Acq: 04 Nov 2025 16:34

Tgt Ion:264 Resp: 2364908

Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.1	28.7
265	23.5	17.2	25.8





#87

Indeno(1,2,3-cd)pyrene

Concen: 6.951 ng

RT: 28.712 min Scan# 4369

Delta R.T. 0.053 min

Lab File: BP026073.D

Acq: 04 Nov 2025 16:34

Instrument :

BNA_P

ClientSampleId :

SU-04-103125DL

Tgt Ion:276 Resp: 121352

Ion Ratio Lower Upper

276 100

138 22.4 13.2 19.8

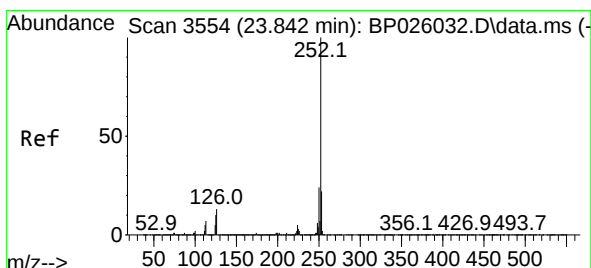
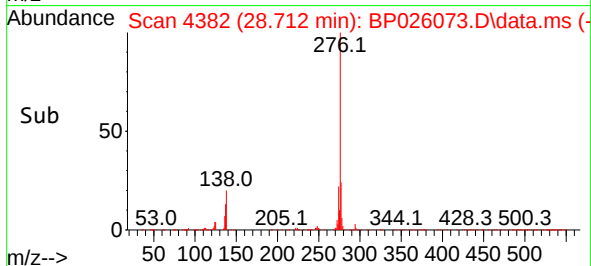
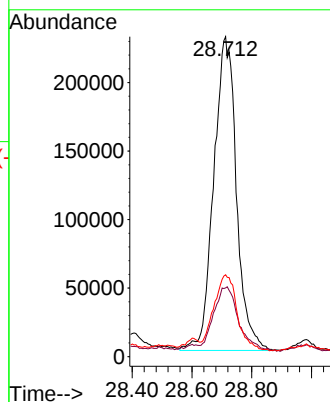
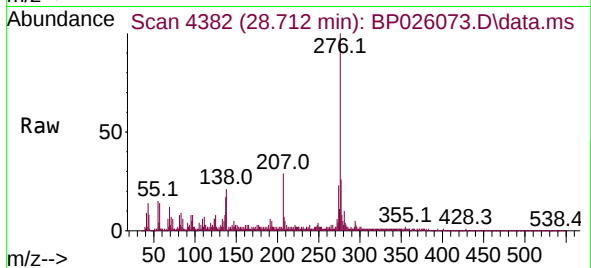
277 25.0 16.3 24.5

Manual Integrations

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Reviewed By :Rahul Chavli 11/05/2025

Supervised By :Jagrut Upadhyay 11/05/2025



#88

Benzo(b)fluoranthene

Concen: 16.592 ng

RT: 23.865 min Scan# 3558

Delta R.T. 0.018 min

Lab File: BP026073.D

Acq: 04 Nov 2025 16:34

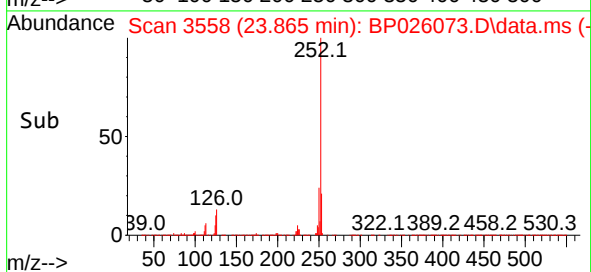
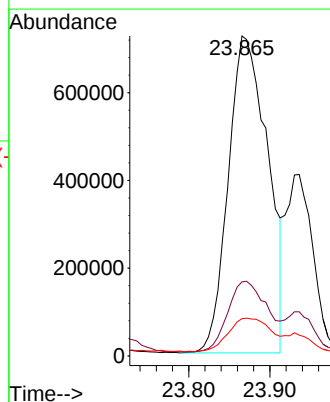
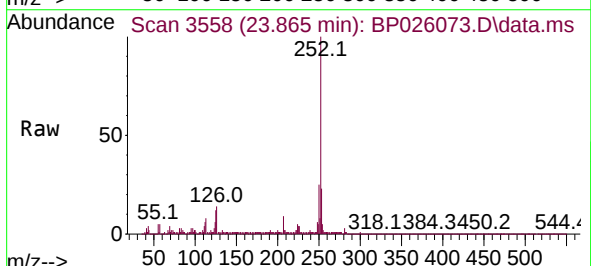
Tgt Ion:252 Resp: 2435899

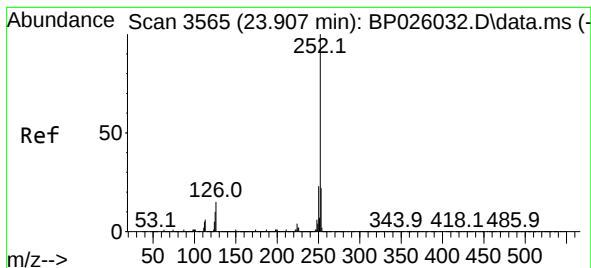
Ion Ratio Lower Upper

252 100

253 23.1 17.6 26.4

125 11.6 8.1 12.1





#89

Benzo(k)fluoranthene

Concen: 6.331 ng m

RT: 23.936 min Scan# 3565

Delta R.T. 0.012 min

Lab File: BP026073.D

Acq: 04 Nov 2025 16:34

Instrument :

BNA_P

ClientSampleId :

SU-04-103125DL

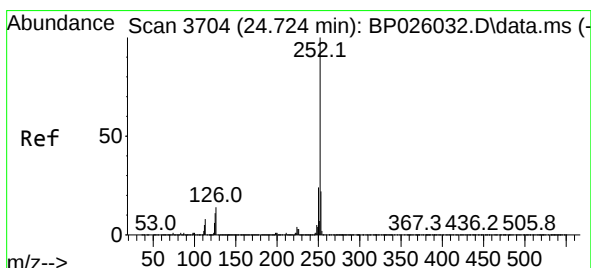
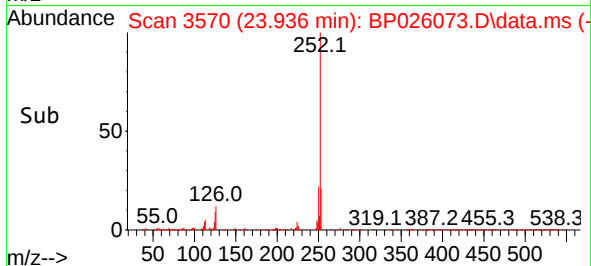
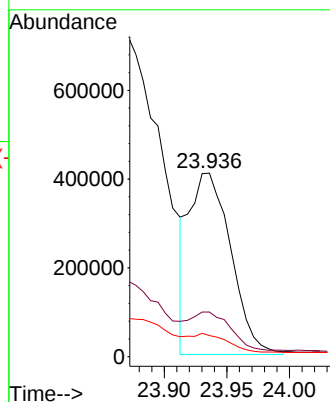
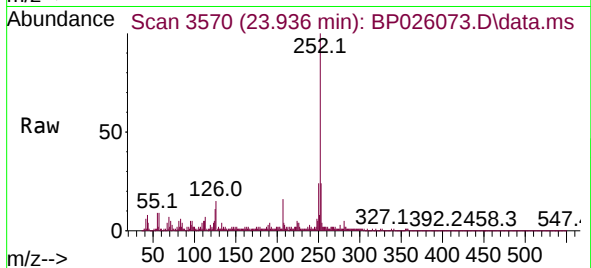
Tgt Ion:	252	Resp:	949104
Ion Ratio	Lower	Upper	
252	100		
253	24.3	17.5	26.3
125	11.4	8.1	12.1

Manual Integrations

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Reviewed By :Rahul Chavli 11/05/2025

Supervised By :Jagrut Upadhyay 11/05/2025



#90

Benzo(a)pyrene

Concen: 16.875 ng

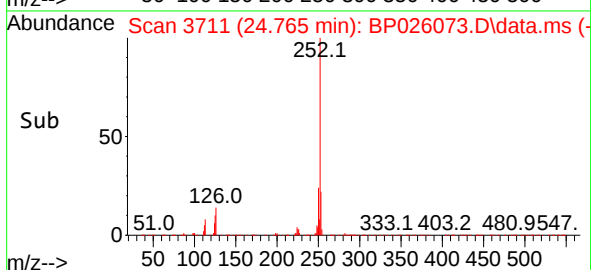
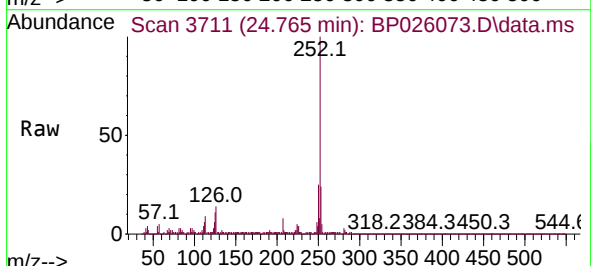
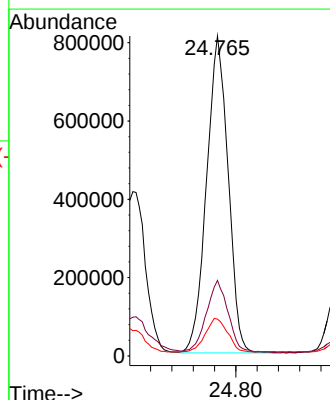
RT: 24.765 min Scan# 3711

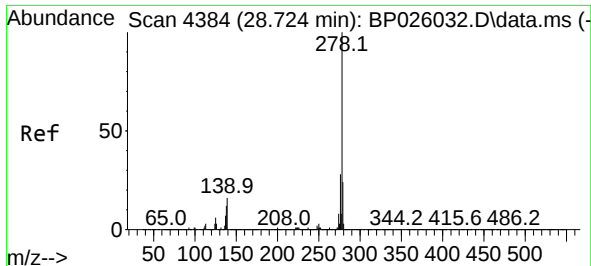
Delta R.T. 0.024 min

Lab File: BP026073.D

Acq: 04 Nov 2025 16:34

Tgt Ion:	252	Resp:	2276027
Ion Ratio	Lower	Upper	
252	100		
253	23.6	17.3	25.9
125	11.5	9.1	13.7





#91
Dibenzo(a,h)anthracene
Concen: 2.620 ng
RT: 28.783 min Scan# 4384
Delta R.T. 0.035 min
Lab File: BP026073.D
Acq: 04 Nov 2025 16:34

Instrument :

BNA_P

ClientSampleId :

SU-04-103125DL

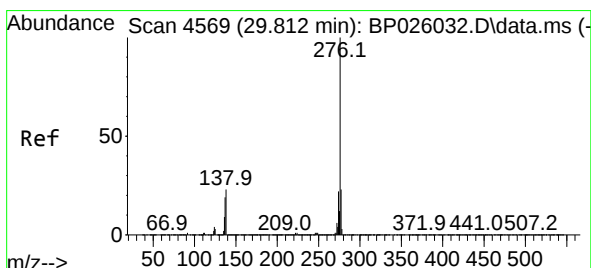
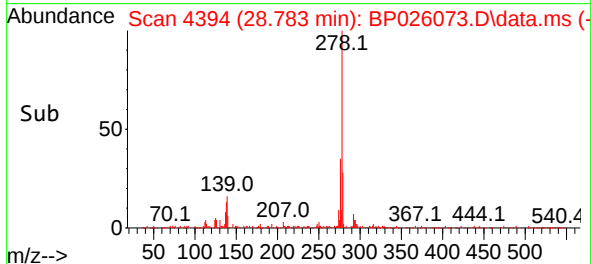
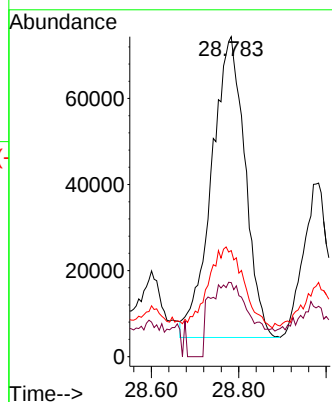
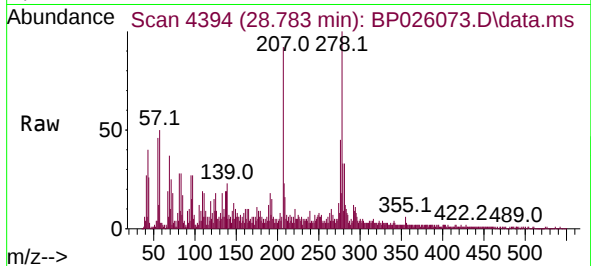
Tgt Ion: 278 Resp: 37224
Ion Ratio Lower Upper
278 100
139 28.2 13.0 19.6
279 33.1 18.9 28.3

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 11/05/2025

Supervised By :Jagrut Upadhyay 11/05/2025



#92
Benzo(g,h,i)perylene
Concen: 8.566 ng
RT: 29.865 min Scan# 4578
Delta R.T. 0.035 min
Lab File: BP026073.D
Acq: 04 Nov 2025 16:34

Tgt Ion: 276 Resp: 1171206
Ion Ratio Lower Upper
276 100
277 26.0 18.5 27.7
138 23.7 18.1 27.1

