

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060525\
 Data File : BF142636.D
 Acq On : 05 Jun 2025 16:07
 Operator : RC/JU
 Sample : Q2178-01DL 100X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RT2929DL

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 06/06/2025
 Supervised By :Jagrut Upadhyay 06/06/2025

Quant Time: Jun 05 16:40:04 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 20 16:26:47 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.892	152	95646	20.000	ng	-0.01
21) Naphthalene-d8	8.180	136	323484	20.000	ng	0.00
39) Acenaphthene-d10	9.933	164	141083	20.000	ng	-0.01
64) Phenanthrene-d10	11.421	188	205066	20.000	ng	-0.01
76) Chrysene-d12	14.068	240	220958	20.000	ng	0.00
86) Perylene-d12	15.562	264	242923	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	2733	0.481	ng	0.00
7) Phenol-d6	6.522	99	4112	0.602	ng	-0.01
23) Nitrobenzene-d5	7.457	82	2053	0.346	ng	-0.02
42) 2,4,6-Tribromophenol	10.721	330	372	0.238	ng	-0.02
45) 2-Fluorobiphenyl	9.251	172	5288	0.503	ng	-0.02
79) Terphenyl-d14	13.004	244	6280	0.388	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.198	128	563349	35.368	ng	100
37) 2-Methylnaphthalene	8.892	142	81845	8.168	ng	98
38) 1-Methylnaphthalene	8.992	142	43308	4.178	ng	98
46) 1,1'-Biphenyl	9.351	154	26598	2.430	ng	99
52) Acenaphthene	9.969	154	223943	26.857	ng	100
55) Dibenzofuran	10.139	168	181963	15.165	ng	97
58) Fluorene	10.480	166	147909	15.956	ng	99
71) Phenanthrene	11.451	178	1393361	127.142	ng	99
72) Anthracene	11.498	178	427796	38.248	ng	99
73) Carbazole	11.651	167	201603	21.084	ng	98
75) Fluoranthene	12.645	202	1529804	149.392	ng	98
78) Pyrene	12.874	202	1383214	67.107	ng	98
81) Benzo(a)anthracene	14.057	228	865514	58.661	ng	97
83) Chrysene	14.092	228	691586	52.164	ng	97
87) Indeno(1,2,3-cd)pyrene	17.068	276	287244	15.750	ng	95
88) Benzo(b)fluoranthene	15.127	252	840463m	58.458	ng	
89) Benzo(k)fluoranthene	15.139	252	393441m	29.217	ng	
90) Benzo(a)pyrene	15.504	252	646424	47.699	ng	98
91) Dibenzo(a,h)anthracene	17.074	278	68885m	4.657	ng	
92) Benzo(g,h,i)perylene	17.527	276	243926	16.488	ng	99

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

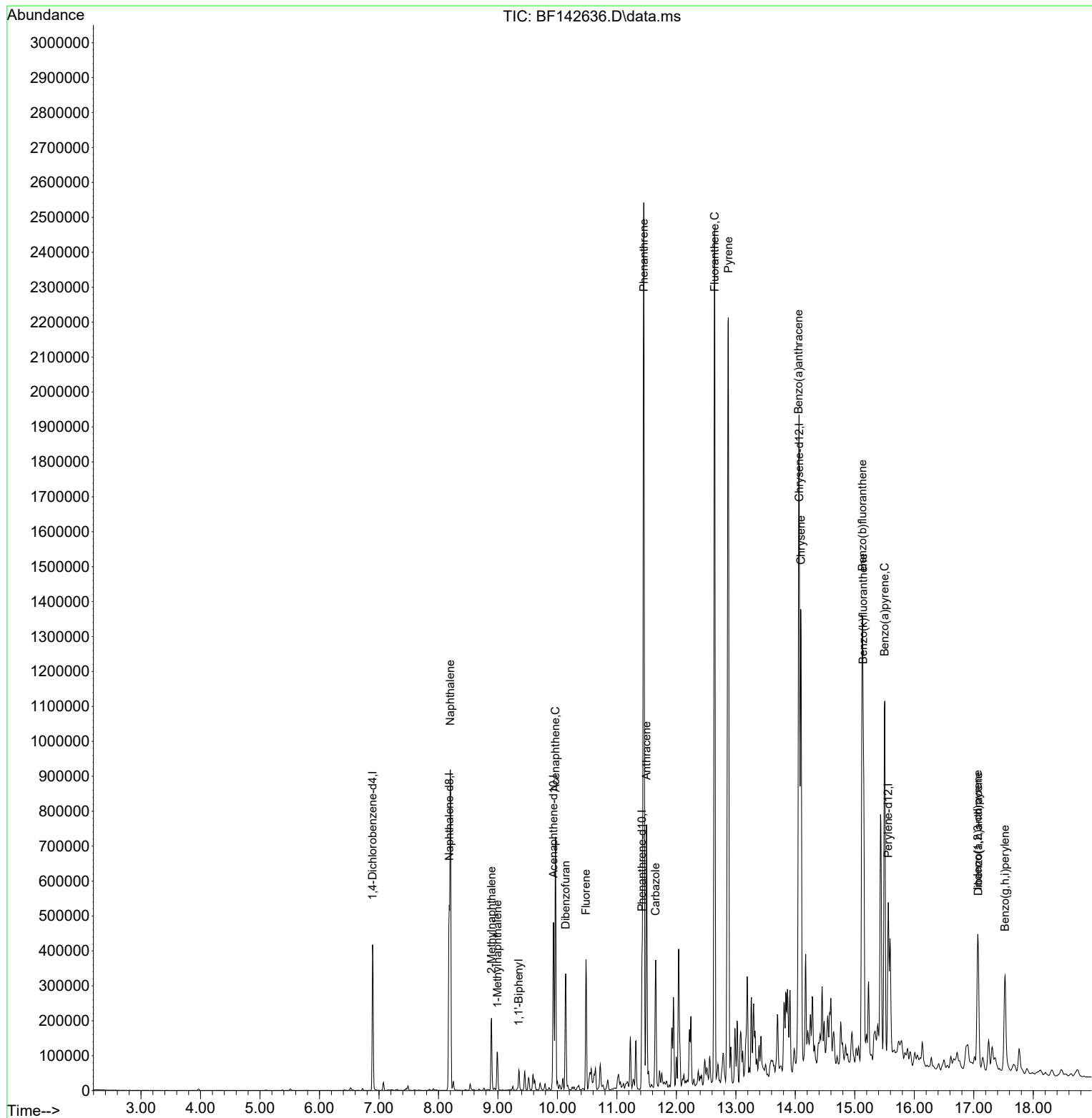
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060525\
Data File : BF142636.D
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Misc :
ALS Vial : 13 Sample Multiplier: 1

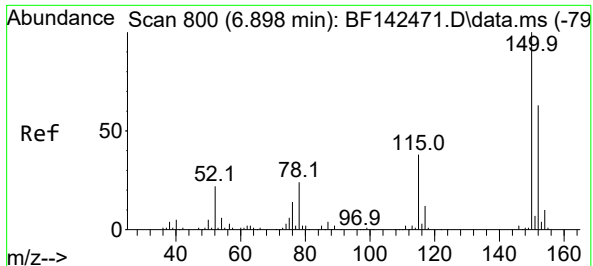
Instrument :
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RT2929DL

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Supervised By :Jagrut Upadhyay 06/06/2025

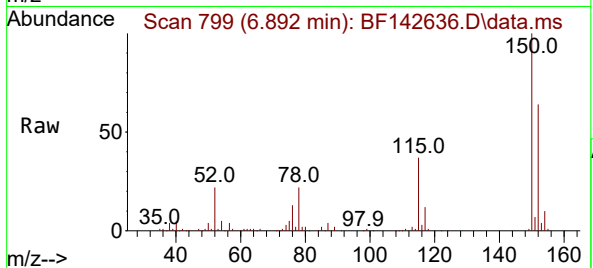
Quant Time: Jun 05 16:40:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.892 min Scan# 799
Delta R.T. -0.012 min
Lab File: BF142636.D
Acq: 05 Jun 2025 16:07

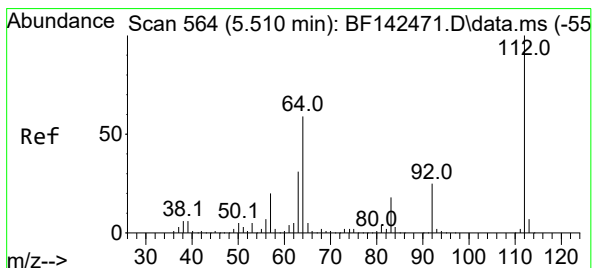
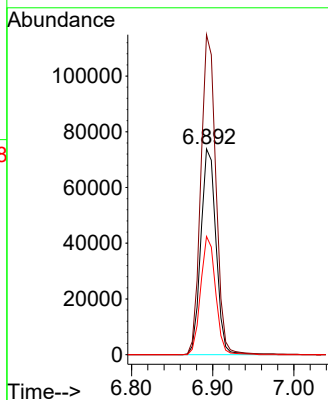
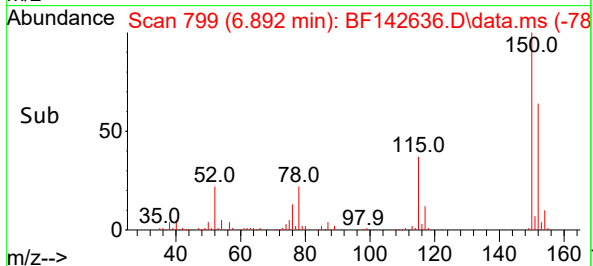
Instrument :
BNA_F
ClientSampleId :
RT2929DL



Tgt Ion:152 Resp: 95640
Ion Ratio Lower Upper
152 100
150 155.6 128.2 192.4
115 57.5 48.3 72.5

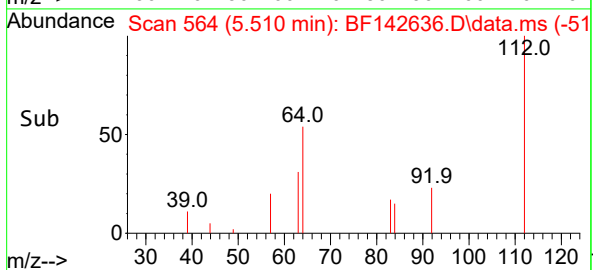
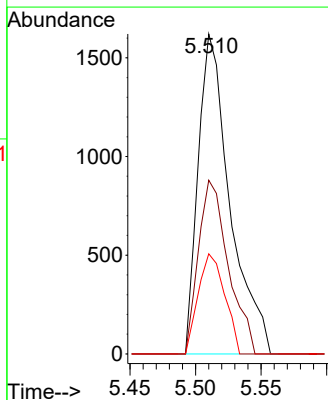
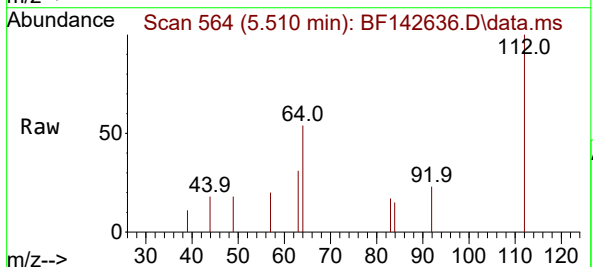
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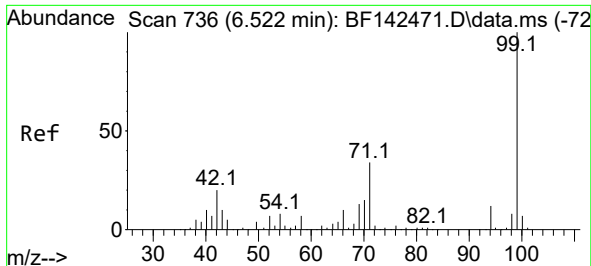
Reviewed By :Rahul Chavli 06/06/2025
Supervised By :Jagrut Upadhyay 06/06/2025



#5
2-Fluorophenol
Concen: 0.481 ng
RT: 5.510 min Scan# 564
Delta R.T. -0.006 min
Lab File: BF142636.D
Acq: 05 Jun 2025 16:07

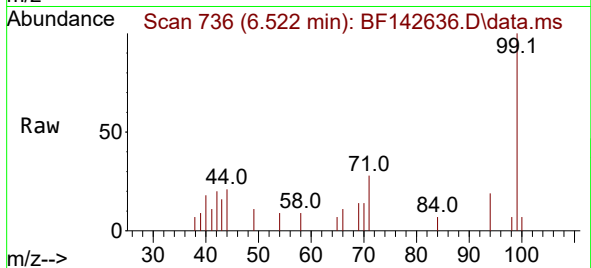
Tgt Ion:112 Resp: 2733
Ion Ratio Lower Upper
112 100
64 54.3 47.5 71.3
63 31.3 24.9 37.3





#7
Phenol-d6
Concen: 0.602 ng
RT: 6.522 min Scan# 711
Delta R.T. -0.012 min
Lab File: BF142636.D
Acq: 05 Jun 2025 16:07

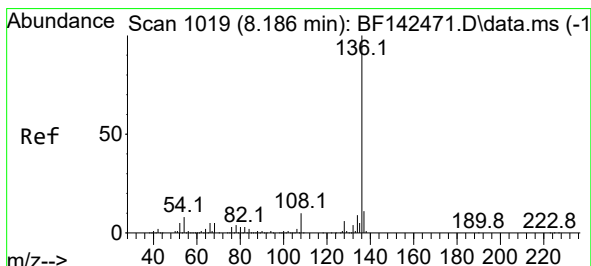
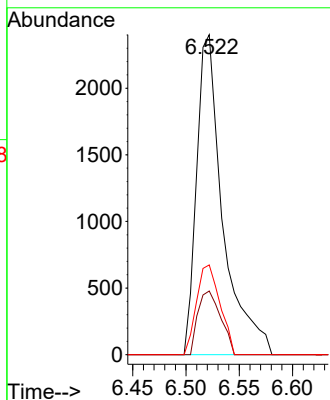
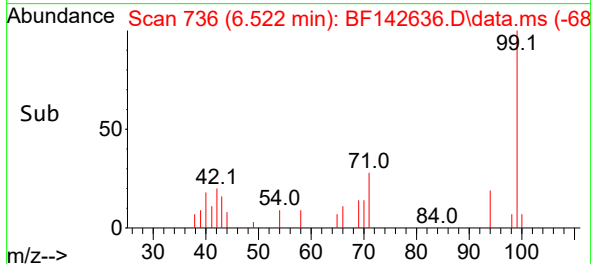
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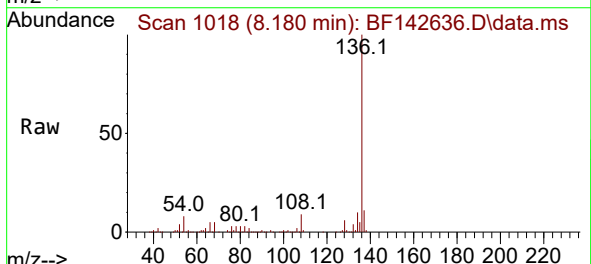
Tgt Ion: 99 Resp: 411
Ion Ratio Lower Upper
99 100
42 19.9 16.2 24.2
71 28.1 27.3 40.9

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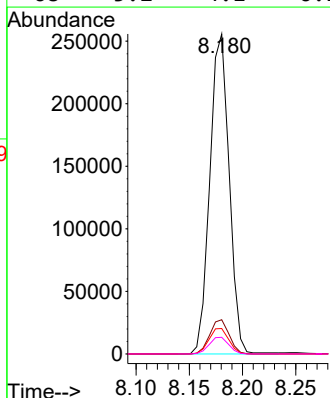
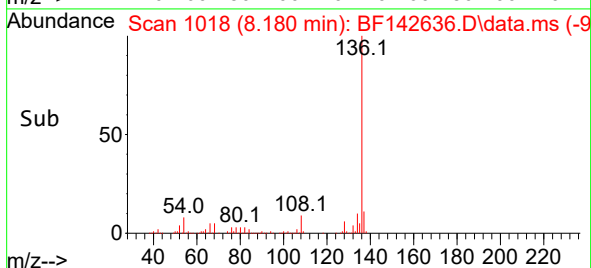
Reviewed By :Rahul Chavli 06/06/2025
Supervised By :Jagrut Upadhyay 06/06/2025

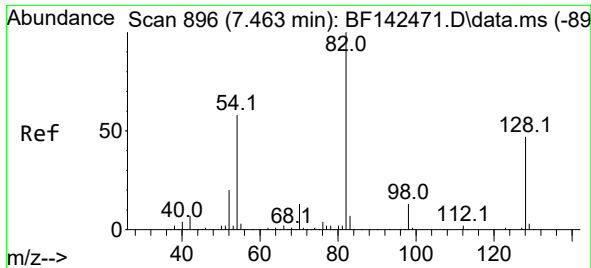


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.180 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142636.D
Acq: 05 Jun 2025 16:07



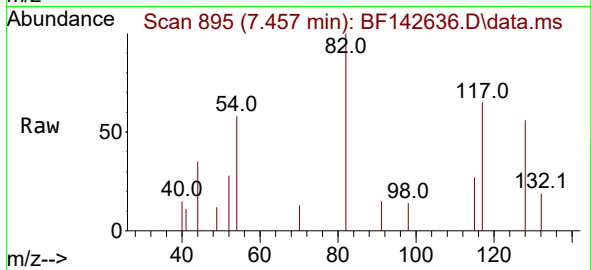
Tgt Ion:136 Resp: 323484
Ion Ratio Lower Upper
136 100
137 10.7 8.6 13.0
54 8.0 6.6 10.0
68 5.2 4.1 6.1





#23
Nitrobenzene-d5
Concen: 0.346 ng
RT: 7.457 min Scan# 896
Delta R.T. -0.018 min
Lab File: BF142636.D
Acq: 05 Jun 2025 16:07

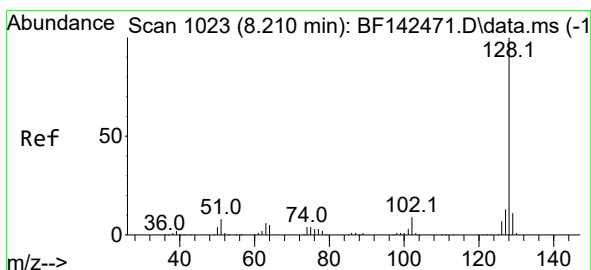
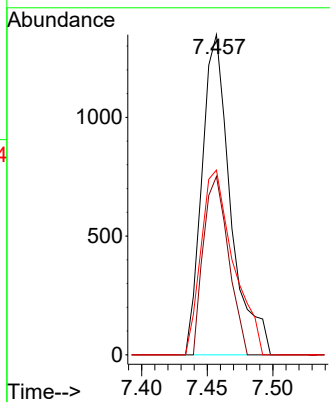
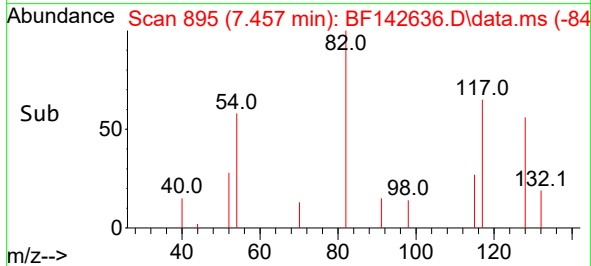
Instrument :
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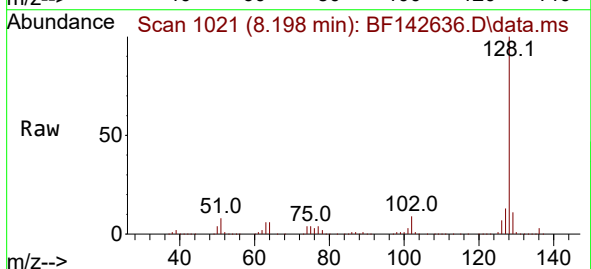
Tgt Ion: 82 Resp: 205
Ion Ratio Lower Upper
82 100
128 55.7 37.4 56.2
54 57.7 46.6 70.0

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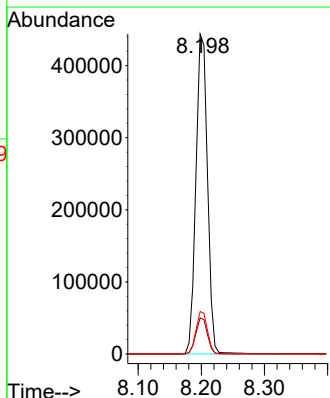
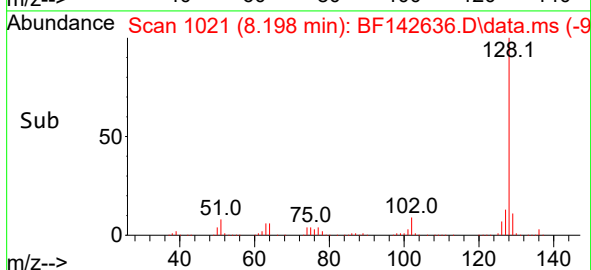
Reviewed By :Rahul Chavli 06/06/2025
Supervised By :Jagrut Upadhyay 06/06/2025

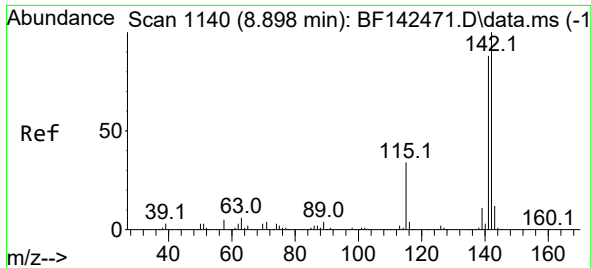


#31
Naphthalene
Concen: 35.368 ng
RT: 8.198 min Scan# 1021
Delta R.T. -0.012 min
Lab File: BF142636.D
Acq: 05 Jun 2025 16:07



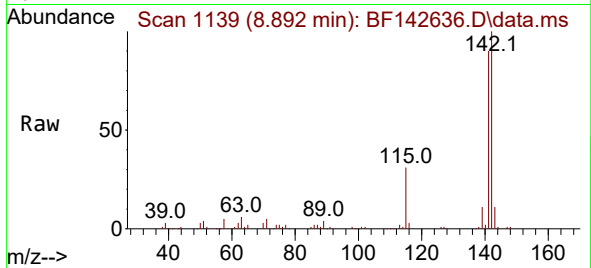
Tgt Ion:128 Resp: 563349
Ion Ratio Lower Upper
128 100
129 11.3 8.9 13.3
127 13.2 10.5 15.7





#37
2-Methylnaphthalene
Concen: 8.168 ng
RT: 8.892 min Scan# 1139
Delta R.T. -0.006 min
Lab File: BF142636.D
Acq: 05 Jun 2025 16:07

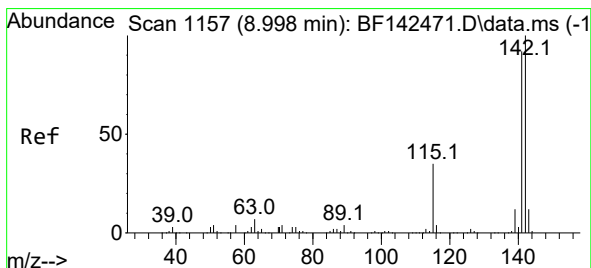
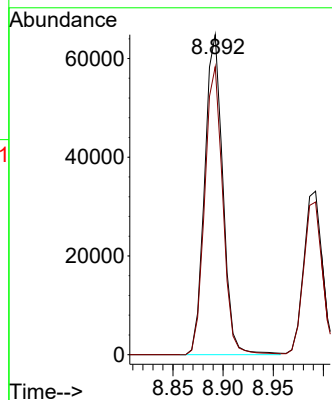
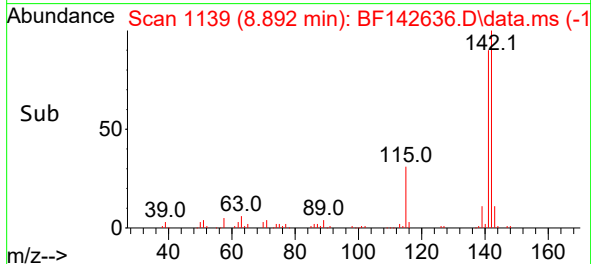
Instrument :
BNA_F
ClientSampleId :
RT2929DL



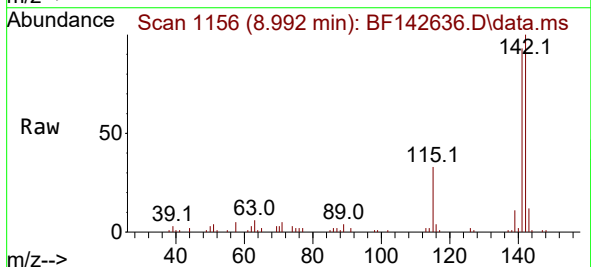
Tgt Ion:142 Resp: 8184
Ion Ratio Lower Upper
142 100
141 90.0 70.7 106.1

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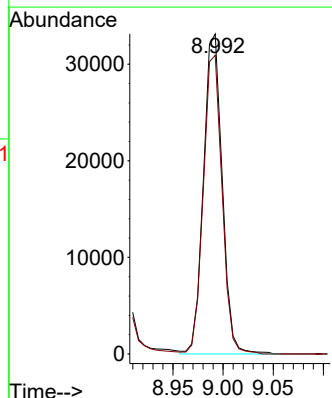
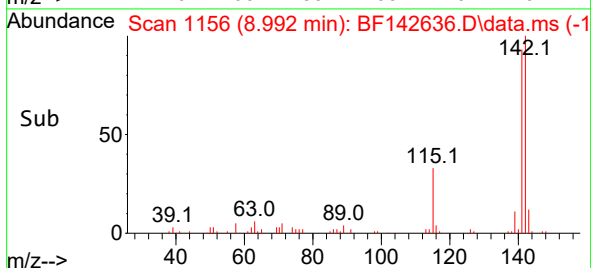
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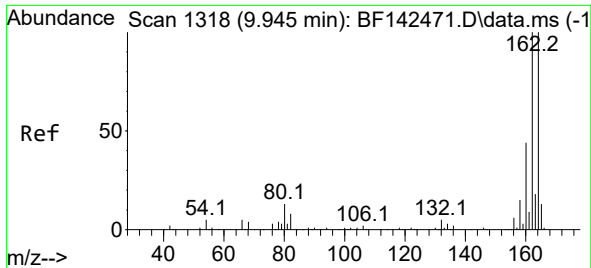


#38
1-Methylnaphthalene
Concen: 4.178 ng
RT: 8.992 min Scan# 1156
Delta R.T. -0.006 min
Lab File: BF142636.D
Acq: 05 Jun 2025 16:07



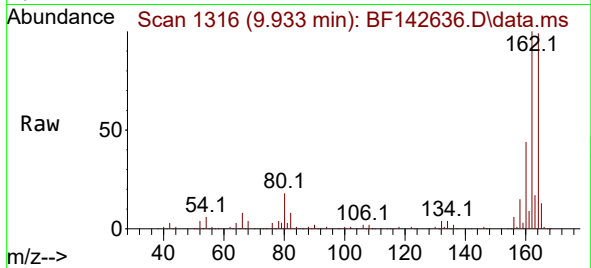
Tgt Ion:142 Resp: 43308
Ion Ratio Lower Upper
142 100
141 93.4 73.4 110.2





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.933 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF142636.D
Acq: 05 Jun 2025 16:07

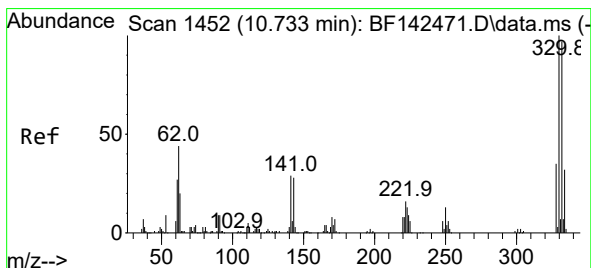
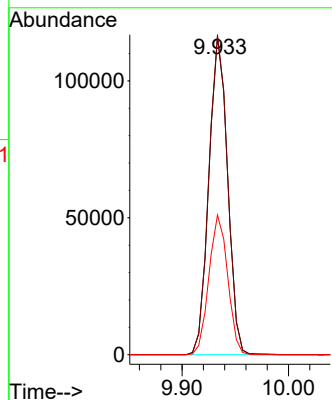
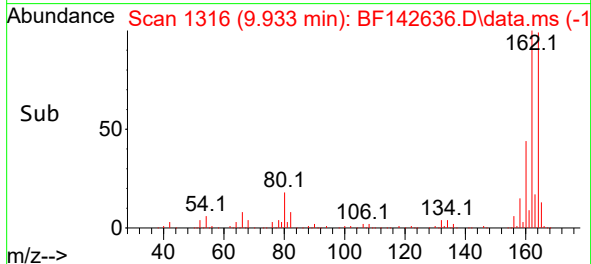
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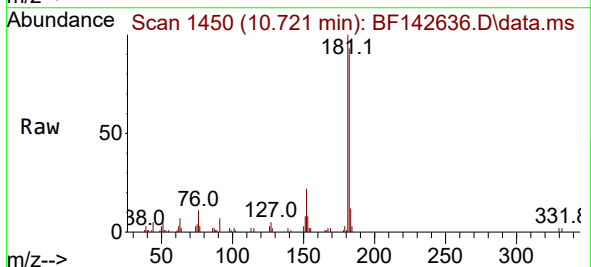
Tgt Ion:164 Resp: 14108
Ion Ratio Lower Upper
164 100
162 100.7 80.2 120.4
160 44.0 35.6 53.4

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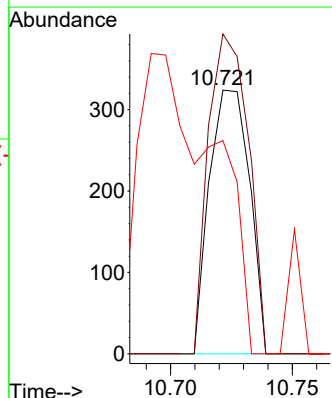
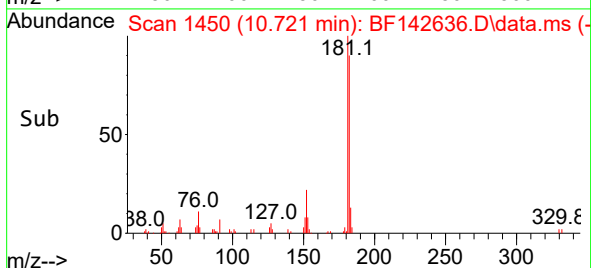
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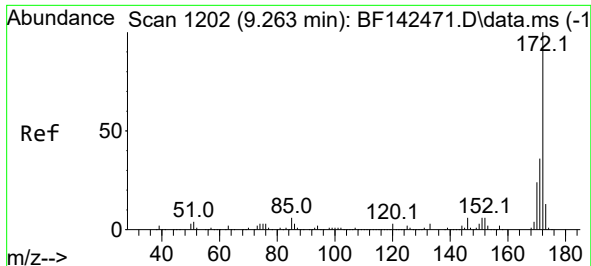


#42
2,4,6-Tribromophenol
Concen: 0.238 ng
RT: 10.721 min Scan# 1450
Delta R.T. -0.018 min
Lab File: BF142636.D
Acq: 05 Jun 2025 16:07



Tgt Ion:330 Resp: 372
Ion Ratio Lower Upper
330 100
332 121.0 77.6 116.4#
141 0.0 24.6 36.8#





#45

2-Fluorobiphenyl

Concen: 0.503 ng

RT: 9.251 min Scan# 1200

Delta R.T. -0.018 min

Lab File: BF142636.D

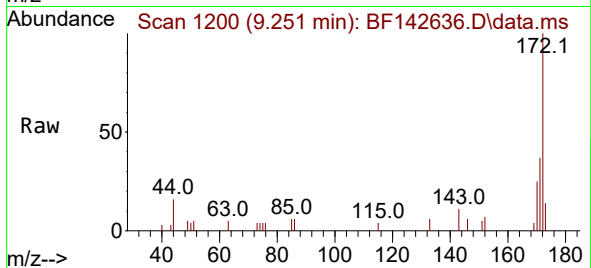
Acq: 05 Jun 2025 16:07

Instrument :

BNA_F

ClientSampleId :

RT2929DL



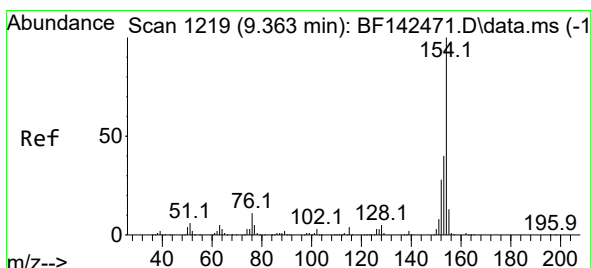
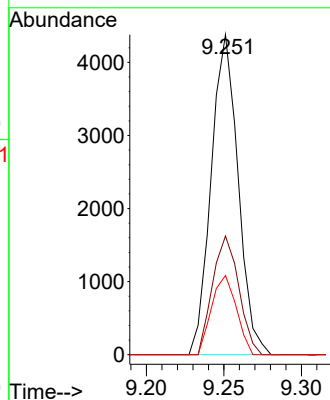
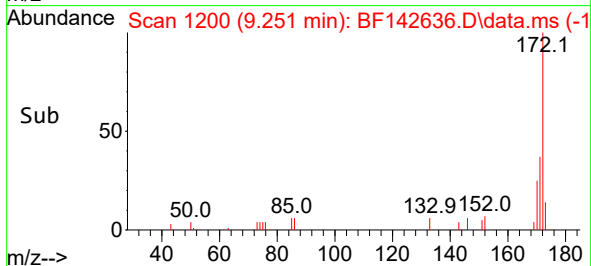
Tgt Ion:	172	Resp:	528
Ion Ratio	Lower	Upper	
172	100		
171	37.1	28.6	42.8
170	24.8	18.9	28.3

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#46

1,1'-Biphenyl

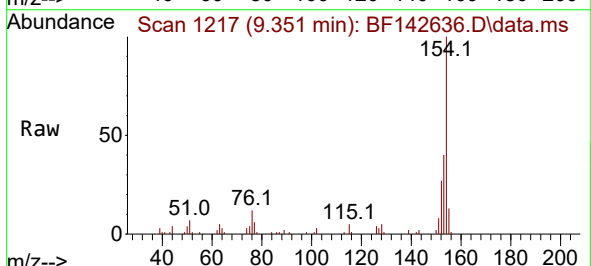
Concen: 2.430 ng

RT: 9.351 min Scan# 1217

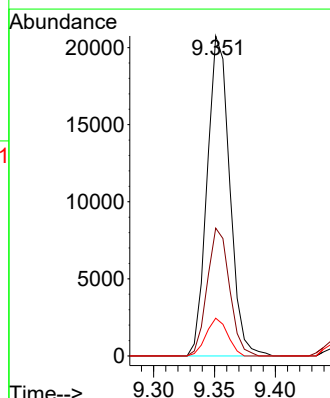
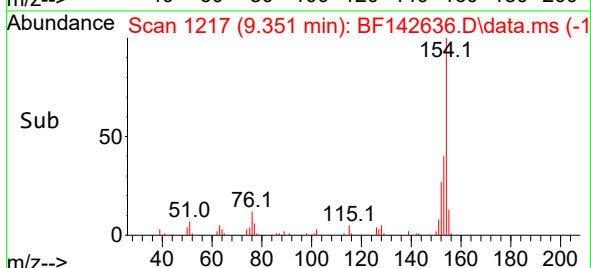
Delta R.T. -0.018 min

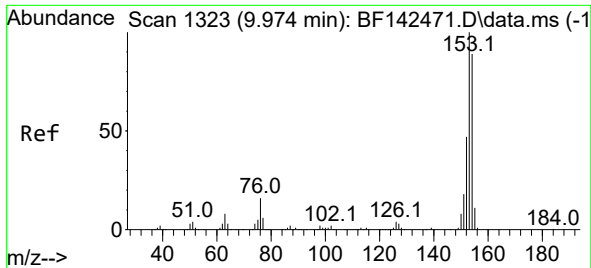
Lab File: BF142636.D

Acq: 05 Jun 2025 16:07



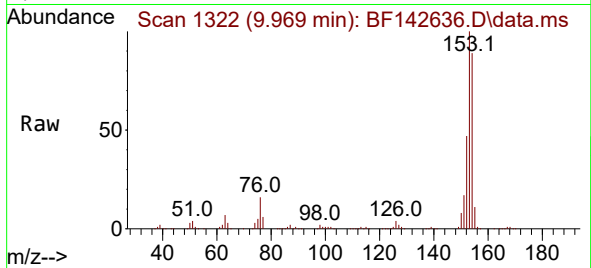
Tgt Ion:	154	Resp:	26598
Ion Ratio	Lower	Upper	
154	100		
153	39.9	20.4	60.4
76	11.8	0.0	30.8





#52
Acenaphthene
Concen: 26.857 ng
RT: 9.969 min Scan# 11
Delta R.T. -0.011 min
Lab File: BF142636.D
Acq: 05 Jun 2025 16:07

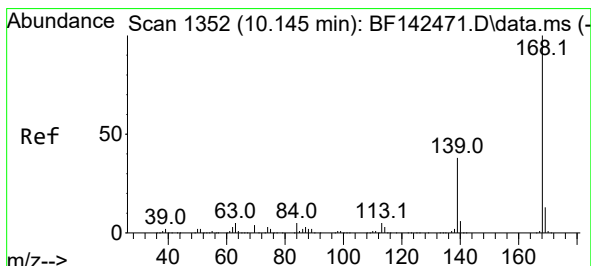
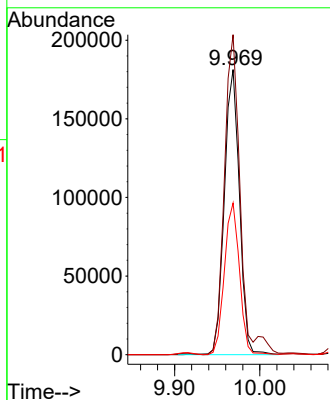
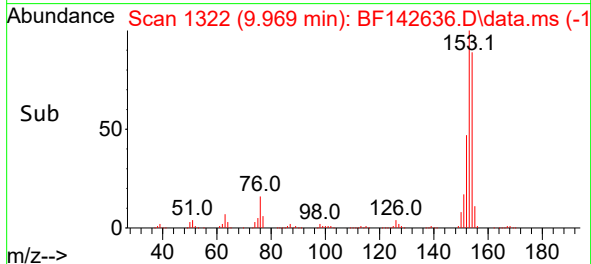
Instrument :
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ClientSampleId :
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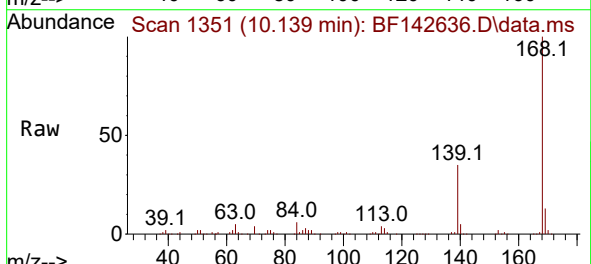
Tgt Ion:154 Resp: 22394
Ion Ratio Lower Upper
154 100
153 112.2 90.0 135.0
152 53.2 42.6 64.0

Manual Integrations
APPROVED

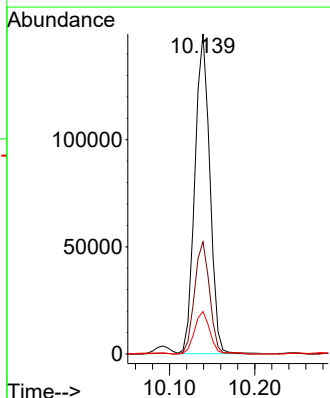
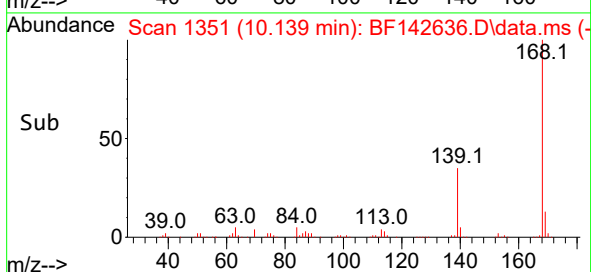
Reviewed By :Rahul Chavli 06/06/2025
Supervised By :Jagrut Upadhyay 06/06/2025

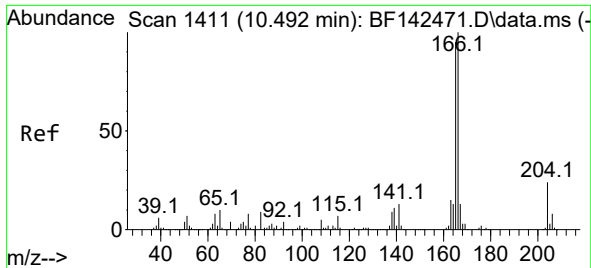


#55
Dibenzofuran
Concen: 15.165 ng
RT: 10.139 min Scan# 1351
Delta R.T. -0.012 min
Lab File: BF142636.D
Acq: 05 Jun 2025 16:07



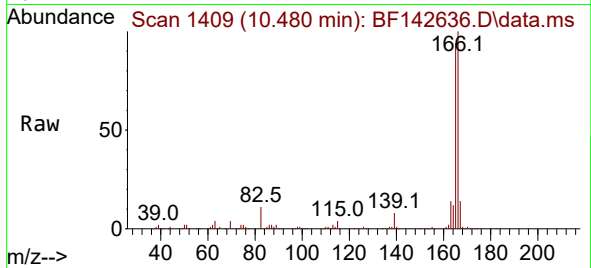
Tgt Ion:168 Resp: 181963
Ion Ratio Lower Upper
168 100
139 35.0 30.2 45.2
169 13.2 10.7 16.1





#58
Fluorene
Concen: 15.956 ng
RT: 10.480 min Scan# 1411
Delta R.T. -0.018 min
Lab File: BF142636.D
Acq: 05 Jun 2025 16:07

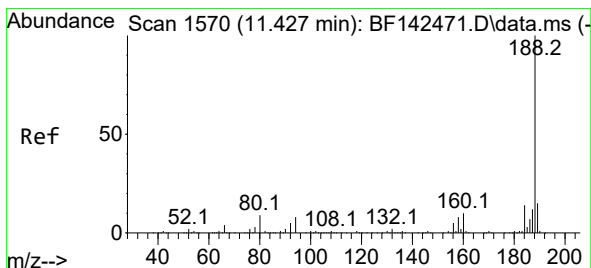
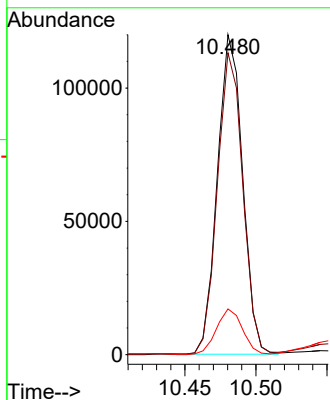
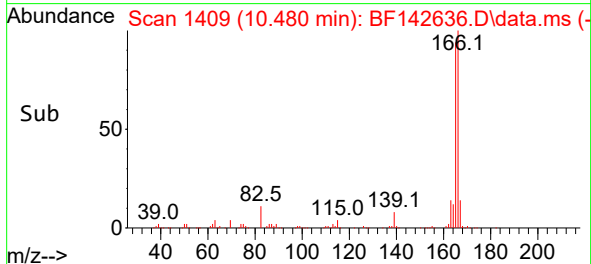
Instrument :
BNA_F
ClientSampleId :
RT2929DL



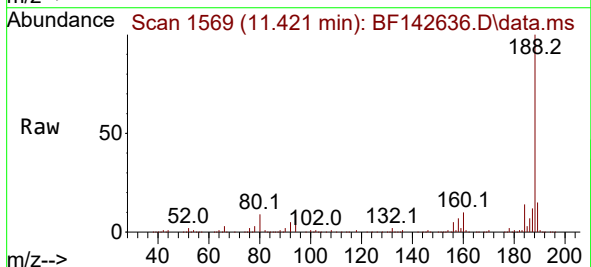
Tgt Ion:166 Resp: 147909
Ion Ratio Lower Upper
166 100
165 94.4 75.8 113.8
167 14.3 10.6 16.0

Manual Integrations
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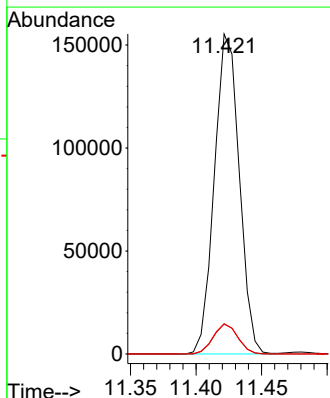
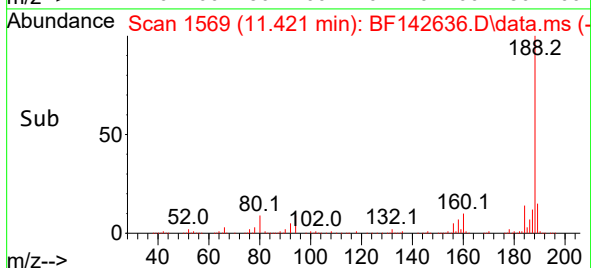
Reviewed By :Rahul Chavli 06/06/2025
Supervised By :Jagrut Upadhyay 06/06/2025

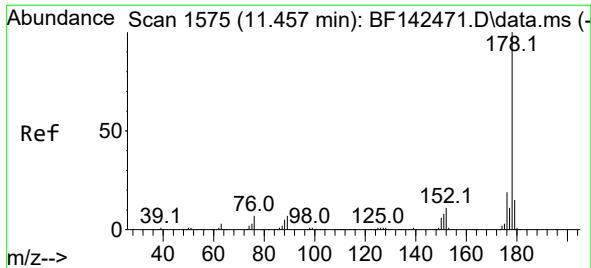


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.421 min Scan# 1569
Delta R.T. -0.012 min
Lab File: BF142636.D
Acq: 05 Jun 2025 16:07



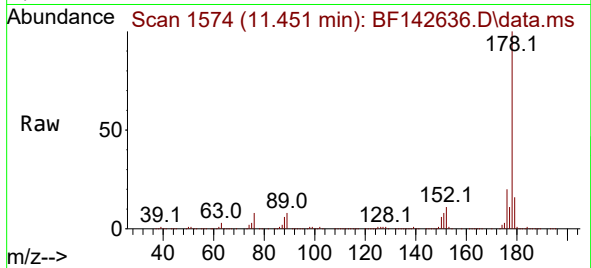
Tgt Ion:188 Resp: 205066
Ion Ratio Lower Upper
188 100
94 9.3 6.6 10.0
80 9.5 7.4 11.0





#71
Phenanthrene
Concen: 127.142 ng
RT: 11.451 min Scan# 1574
Delta R.T. -0.006 min
Lab File: BF142636.D
Acq: 05 Jun 2025 16:07

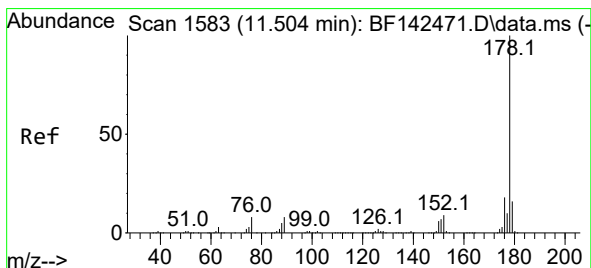
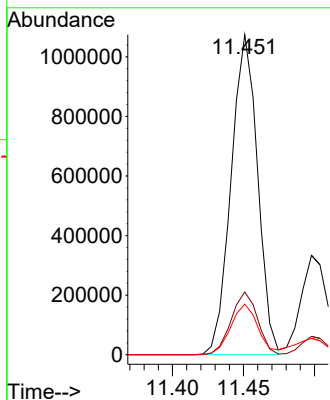
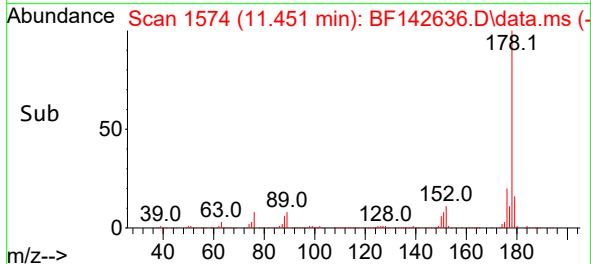
Instrument :
BNA_F
ClientSampleId :
RT2929DL



Tgt Ion:178 Resp: 139336
Ion Ratio Lower Upper
178 100
176 19.6 15.4 23.0
179 15.8 12.3 18.5

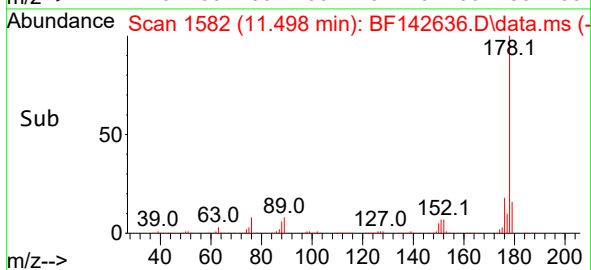
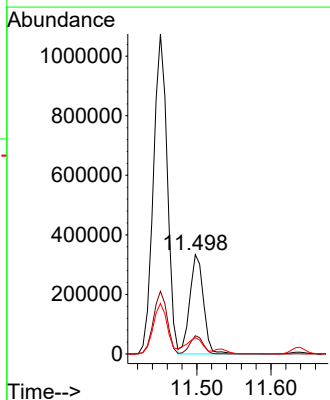
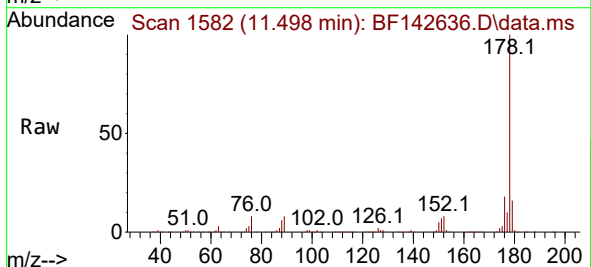
Manual Integrations
APPROVED

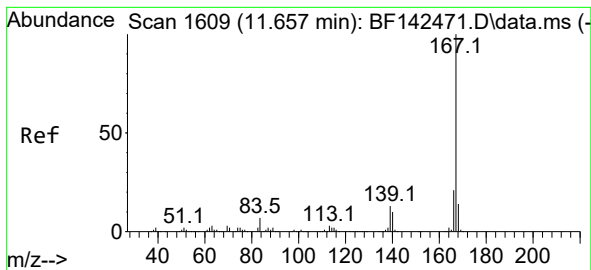
Reviewed By :Rahul Chavli 06/06/2025
Supervised By :Jagrut Upadhyay 06/06/2025



#72
Anthracene
Concen: 38.248 ng
RT: 11.498 min Scan# 1582
Delta R.T. -0.012 min
Lab File: BF142636.D
Acq: 05 Jun 2025 16:07

Tgt Ion:178 Resp: 427796
Ion Ratio Lower Upper
178 100
176 18.4 14.6 21.8
179 16.4 12.4 18.6





#73

Carbazole

Concen: 21.084 ng

RT: 11.651 min Scan# 1608

Delta R.T. -0.012 min

Lab File: BF142636.D

Acq: 05 Jun 2025 16:07

Instrument :

BNA_F

ClientSampleId :

RT2929DL

Tgt Ion:167 Resp: 20160

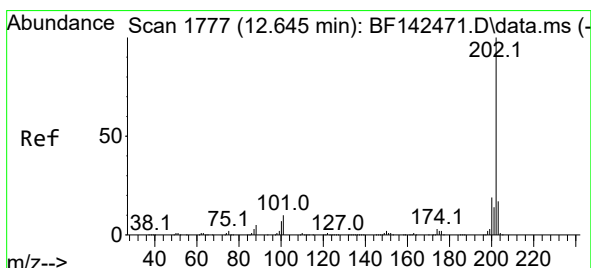
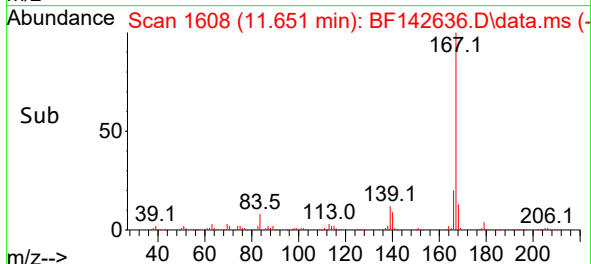
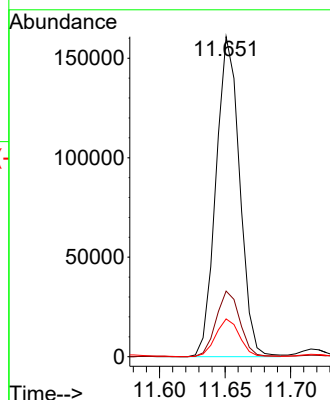
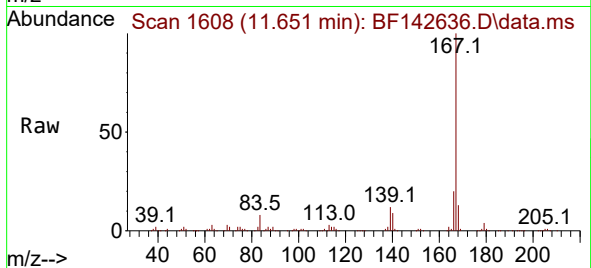
Ion	Ratio	Lower	Upper
167	100		
166	20.5	16.9	25.3
139	11.8	10.2	15.4

Manual Integrations

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Reviewed By :Rahul Chavli 06/06/2025

Supervised By :Jagrut Upadhyay 06/06/2025



#75

Fluoranthene

Concen: 149.392 ng

RT: 12.645 min Scan# 1777

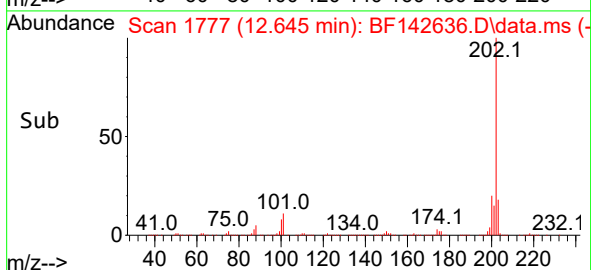
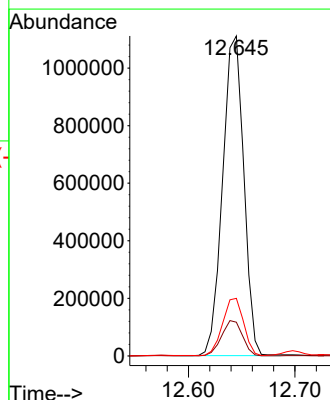
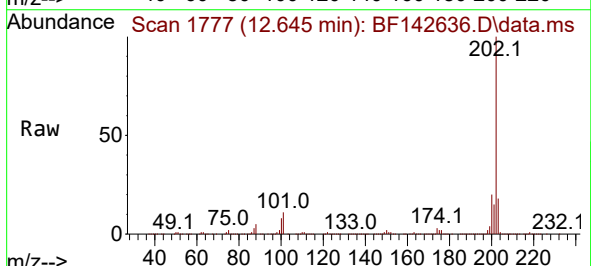
Delta R.T. -0.000 min

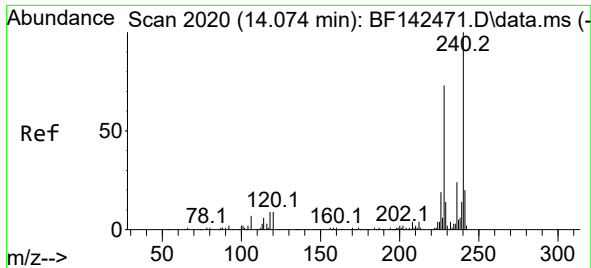
Lab File: BF142636.D

Acq: 05 Jun 2025 16:07

Tgt Ion:202 Resp: 1529804

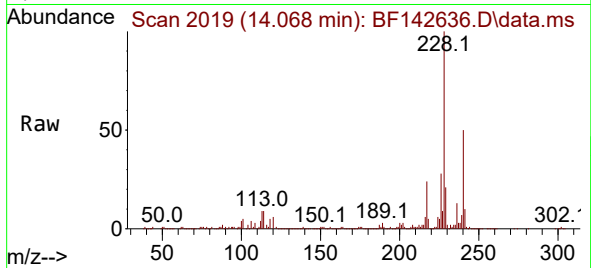
Ion	Ratio	Lower	Upper
202	100		
101	10.6	0.0	29.6
203	18.0	0.0	37.2





#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.068 min Scan# 2020
Delta R.T. -0.006 min
Lab File: BF142636.D
Acq: 05 Jun 2025 16:07

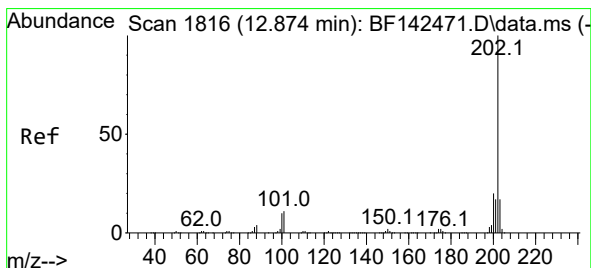
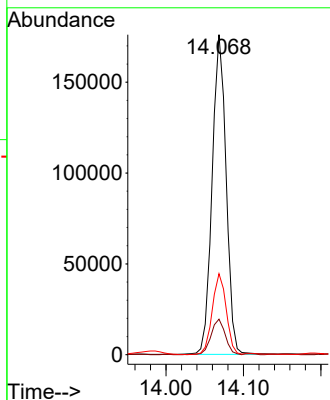
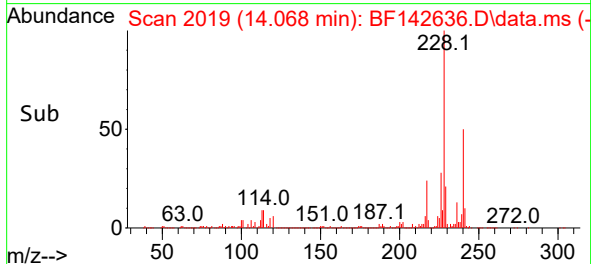
Instrument :
BNA_F
ClientSampleId :
RT2929DL



Tgt Ion:240 Resp: 220958
Ion Ratio Lower Upper
240 100
120 11.1 7.5 11.3
236 25.3 19.6 29.4

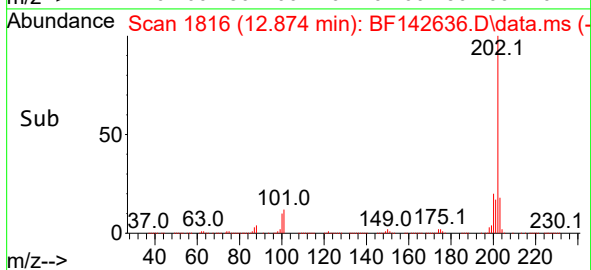
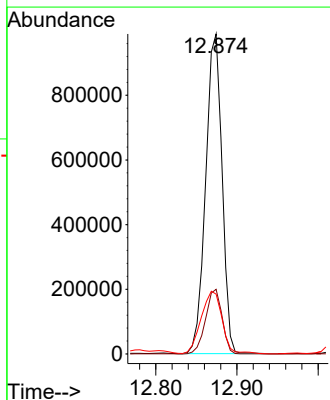
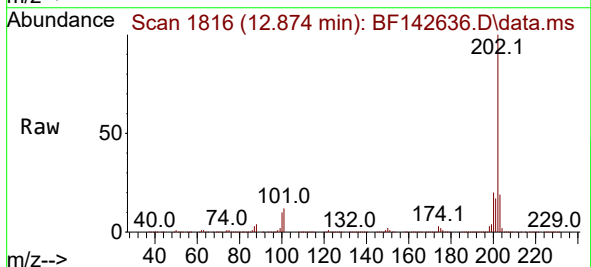
Manual Integrations
APPROVED

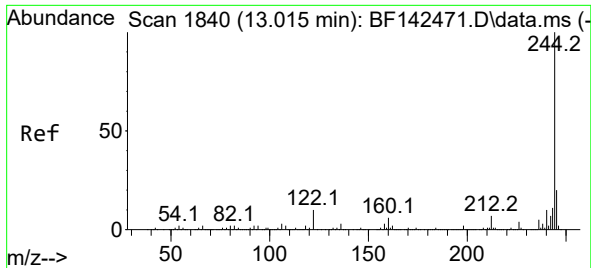
Reviewed By :Rahul Chavli 06/06/2025
Supervised By :Jagrut Upadhyay 06/06/2025



#78
Pyrene
Concen: 67.107 ng
RT: 12.874 min Scan# 1816
Delta R.T. -0.000 min
Lab File: BF142636.D
Acq: 05 Jun 2025 16:07

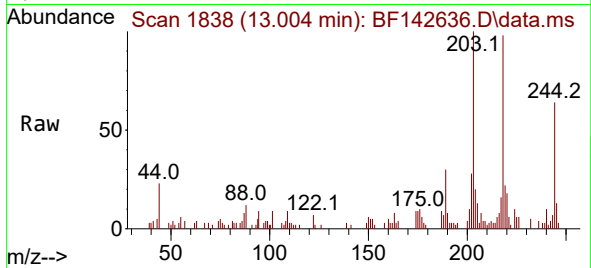
Tgt Ion:202 Resp: 1383214
Ion Ratio Lower Upper
202 100
200 20.2 16.1 24.1
203 18.7 13.9 20.9





#79
Terphenyl-d14
Concen: 0.388 ng
RT: 13.004 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF142636.D
Acq: 05 Jun 2025 16:07

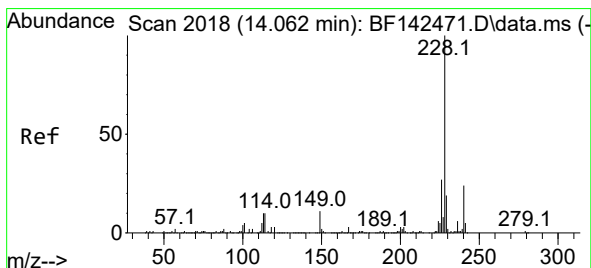
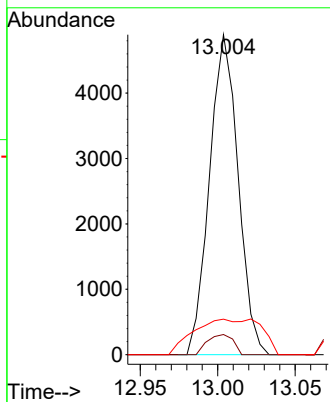
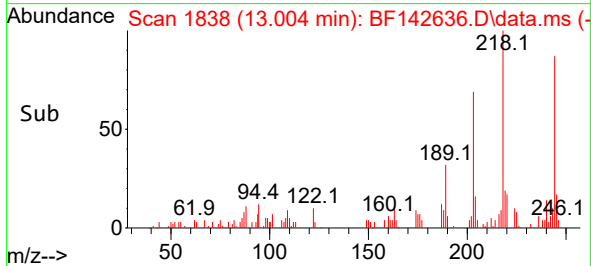
Instrument :
BNA_F
ClientSampleId :
RT2929DL



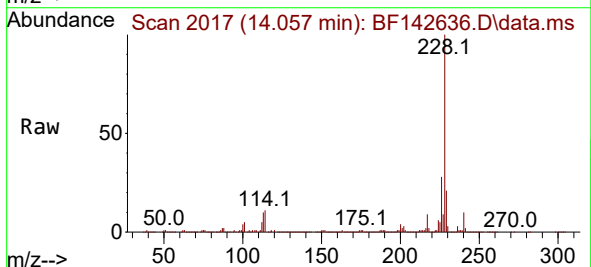
Tgt Ion:244 Resp: 6280
Ion Ratio Lower Upper
244 100
212 6.3 5.3 7.9
122 11.1 8.2 12.2

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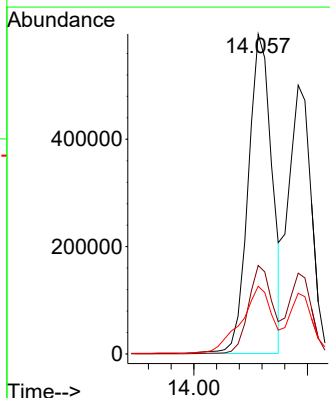
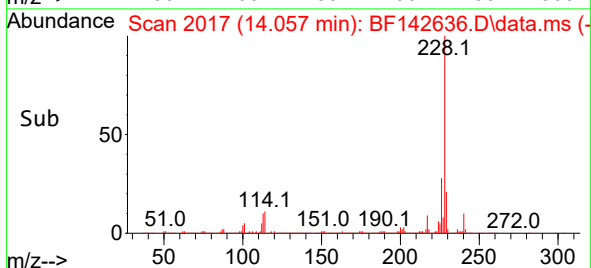
Reviewed By :Rahul Chavli 06/06/2025
Supervised By :Jagrut Upadhyay 06/06/2025

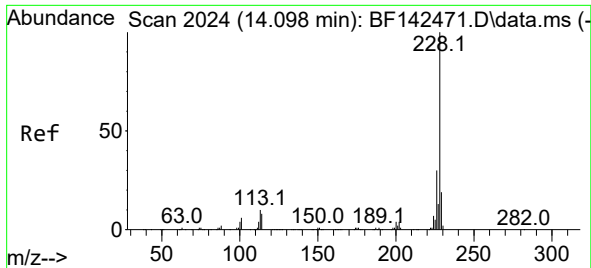


#81
Benzo(a)anthracene
Concen: 58.661 ng
RT: 14.057 min Scan# 2017
Delta R.T. -0.006 min
Lab File: BF142636.D
Acq: 05 Jun 2025 16:07



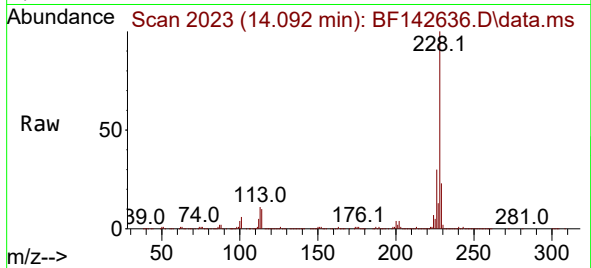
Tgt Ion:228 Resp: 865514
Ion Ratio Lower Upper
228 100
226 27.7 21.2 31.8
229 21.2 15.5 23.3





#83
Chrysene
Concen: 52.164 ng
RT: 14.092 min Scan# 2024
Delta R.T. -0.012 min
Lab File: BF142636.D
Acq: 05 Jun 2025 16:07

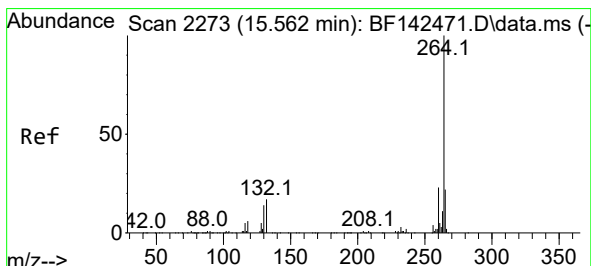
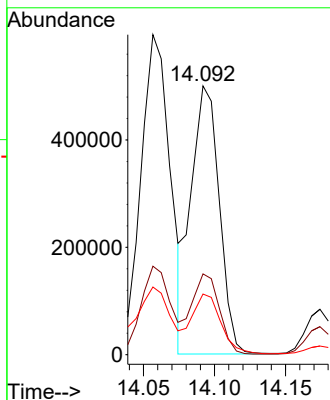
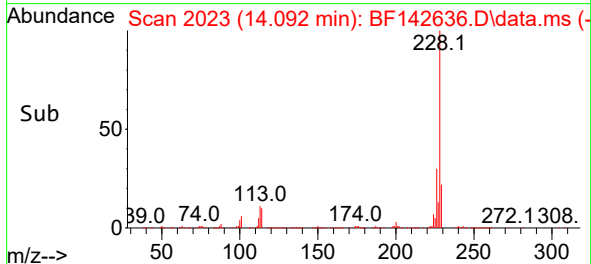
Instrument :
BNA_F
ClientSampleId :
RT2929DL



Tgt Ion:228 Resp: 691586
Ion Ratio Lower Upper
228 100
226 30.1 23.8 35.6
229 22.6 15.4 23.2

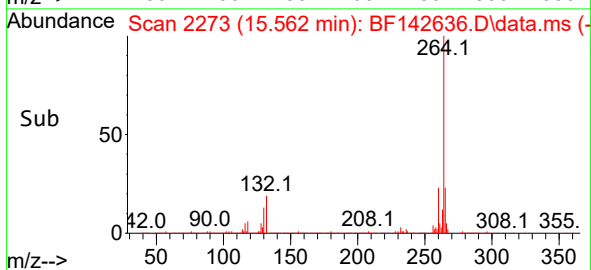
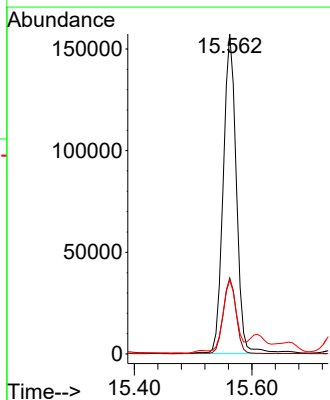
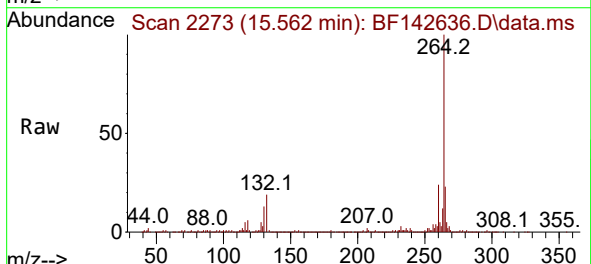
Manual Integrations
APPROVED

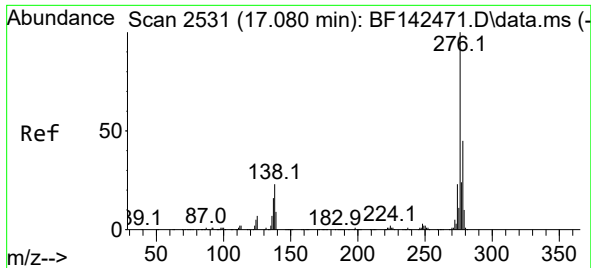
Reviewed By :Rahul Chavli 06/06/2025
Supervised By :Jagrut Upadhyay 06/06/2025



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.562 min Scan# 2273
Delta R.T. -0.006 min
Lab File: BF142636.D
Acq: 05 Jun 2025 16:07

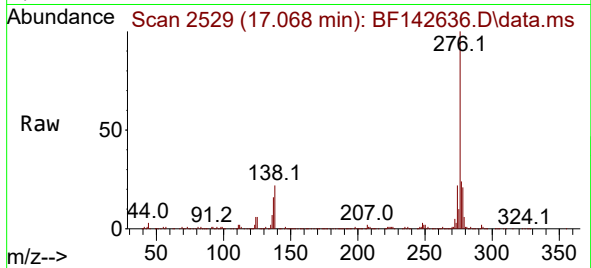
Tgt Ion:264 Resp: 242923
Ion Ratio Lower Upper
264 100
260 23.7 18.6 28.0
265 23.1 17.7 26.5





#87
Indeno(1,2,3-cd)pyrene
Concen: 15.750 ng
RT: 17.068 min Scan# 2199
Delta R.T. -0.024 min
Lab File: BF142636.D
Acq: 05 Jun 2025 16:07

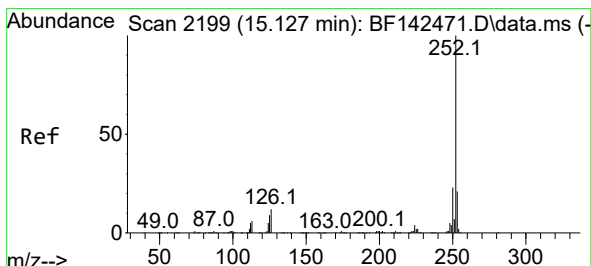
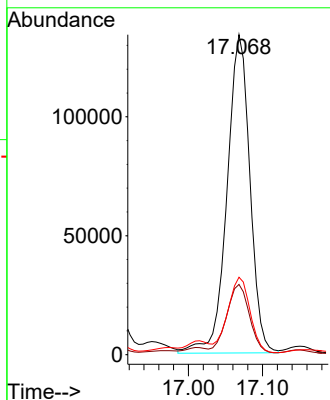
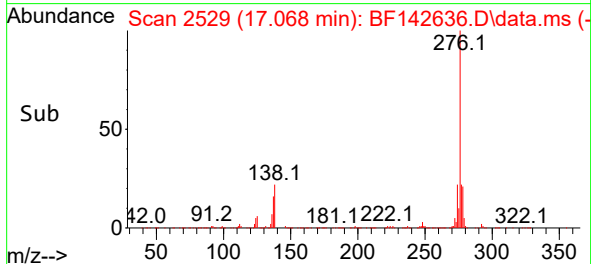
Instrument :
BNA_F
ClientSampleId :
RT2929DL



Tgt Ion:276 Resp: 287244
Ion Ratio Lower Upper
276 100
138 21.7 19.9 29.9
277 22.9 20.2 30.2

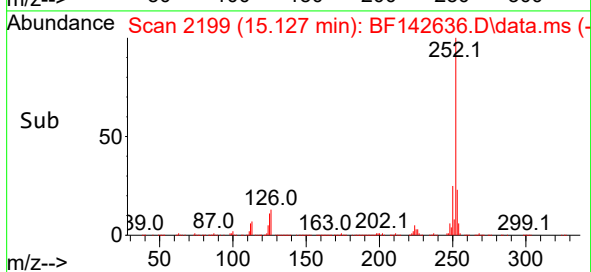
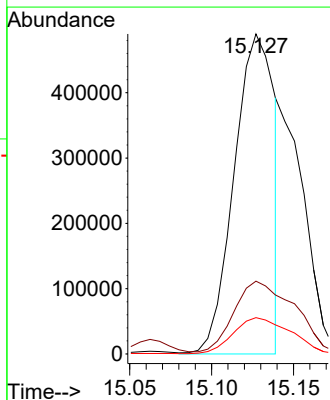
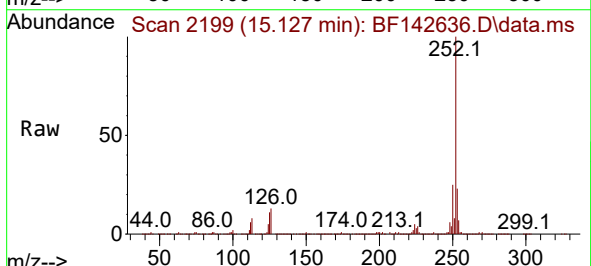
Manual Integrations
APPROVED

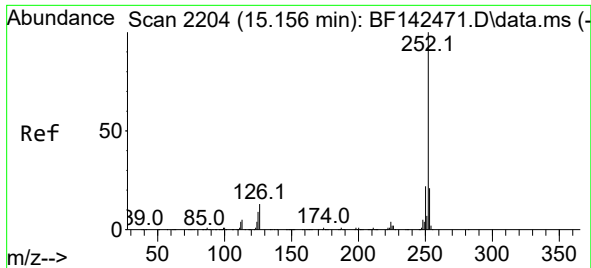
Reviewed By :Rahul Chavli 06/06/2025
Supervised By :Jagrut Upadhyay 06/06/2025



#88
Benzo(b)fluoranthene
Concen: 58.458 ng m
RT: 15.127 min Scan# 2199
Delta R.T. -0.000 min
Lab File: BF142636.D
Acq: 05 Jun 2025 16:07

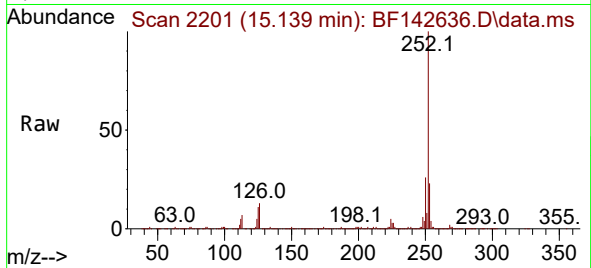
Tgt Ion:252 Resp: 840463
Ion Ratio Lower Upper
252 100
253 22.7 17.0 25.4
125 11.3 7.4 11.0#





#89
Benzo(k)fluoranthene
Concen: 29.217 ng m
RT: 15.139 min Scan# 21
Delta R.T. -0.024 min
Lab File: BF142636.D
Acq: 05 Jun 2025 16:07

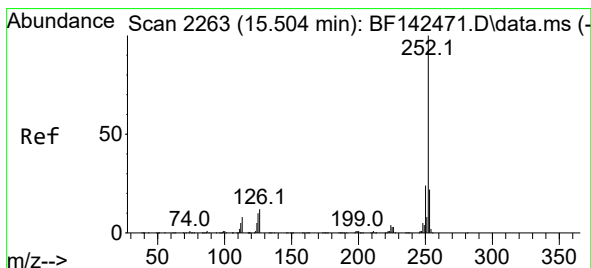
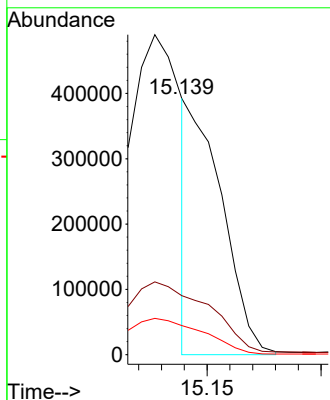
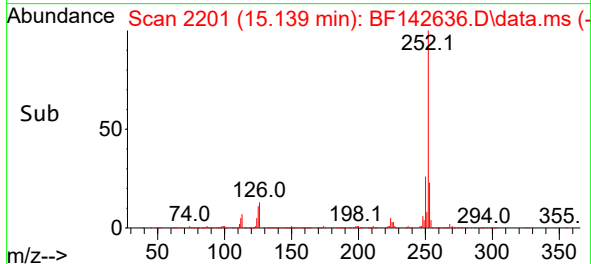
Instrument :
BNA_F
ClientSampleId :
RT2929DL



Tgt Ion:252 Resp: 39344
Ion Ratio Lower Upper
252 100
253 23.1 17.0 25.4
125 11.4 7.3 10.9

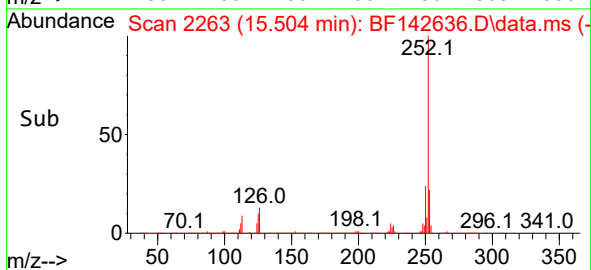
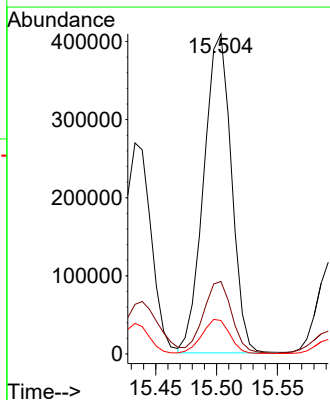
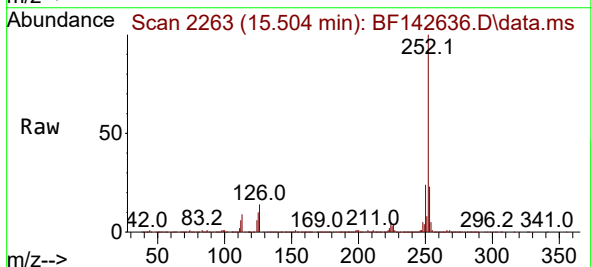
Manual Integrations
APPROVED

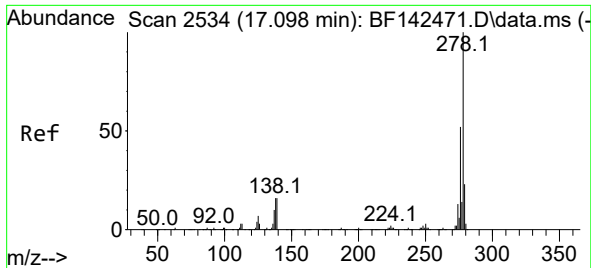
Reviewed By :Rahul Chavli 06/06/2025
Supervised By :Jagrut Upadhyay 06/06/2025



#90
Benzo(a)pyrene
Concen: 47.699 ng
RT: 15.504 min Scan# 2263
Delta R.T. -0.006 min
Lab File: BF142636.D
Acq: 05 Jun 2025 16:07

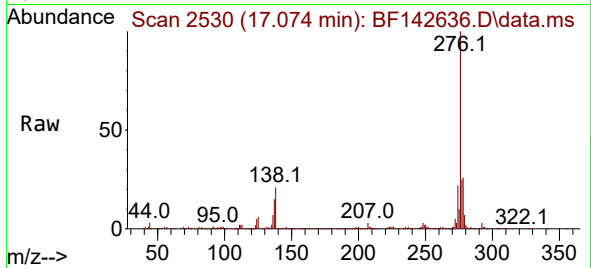
Tgt Ion:252 Resp: 646424
Ion Ratio Lower Upper
252 100
253 22.7 17.4 26.0
125 10.5 7.9 11.9





#91
Dibenzo(a,h)anthracene
Concen: 4.657 ng m
RT: 17.074 min Scan# 21
Delta R.T. -0.041 min
Lab File: BF142636.D
Acq: 05 Jun 2025 16:07

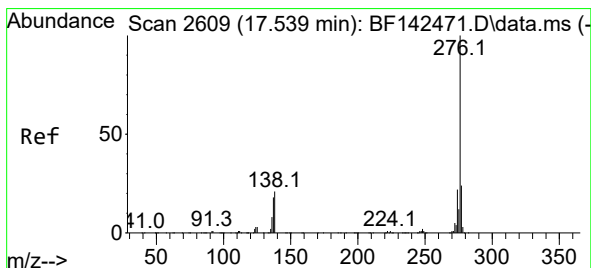
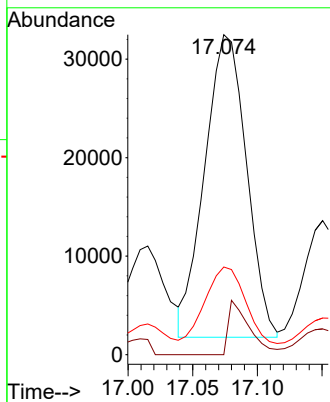
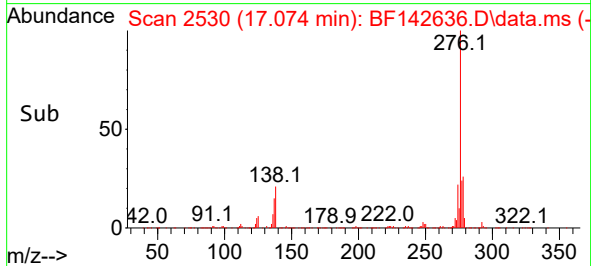
Instrument :
BNA_F
ClientSampleId :
RT2929DL



Tgt Ion:278 Resp: 6888
Ion Ratio Lower Upper
278 100
139 0.0 12.8 19.2
279 27.4 18.6 28.0

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 06/06/2025
Supervised By :Jagrut Upadhyay 06/06/2025



#92
Benzo(g,h,i)perylene
Concen: 16.488 ng
RT: 17.527 min Scan# 2607
Delta R.T. -0.029 min
Lab File: BF142636.D
Acq: 05 Jun 2025 16:07

Tgt Ion:276 Resp: 243926
Ion Ratio Lower Upper
276 100
277 23.8 19.2 28.8
138 21.8 16.8 25.2

