

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062625\
 Data File : BF142877.D
 Acq On : 26 Jun 2025 19:34
 Operator : RC/JU
 Sample : Q2420-01
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 72-11933

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 06/27/2025
 Supervised By :Jagrut Upadhyay 06/27/2025

Quant Time: Jun 27 01:21:30 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 24 05:28:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	79520	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	294096	20.000	ng	-0.01
39) Acenaphthene-d10	9.916	164	136700	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	183559	20.000	ng	0.00
76) Chrysene-d12	14.074	240	131191	20.000	ng	0.02
86) Perylene-d12	15.557	264	133555	20.000	ng	# 0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	331439	69.394	ng	0.00
7) Phenol-d6	6.504	99	397975	70.626	ng	0.00
23) Nitrobenzene-d5	7.434	82	243667	45.445	ng	-0.01
42) 2,4,6-Tribromophenol	10.710	330	78145	55.551	ng	0.00
45) 2-Fluorobiphenyl	9.233	172	513984	49.393	ng	-0.01
79) Terphenyl-d14	13.004	244	391182	41.199	ng	0.00
Target Compounds						Qvalue
38) 1-Methylnaphthalene	8.969	142	26309	2.848	ng	96
49) Acenaphthylene	9.775	152	91862	6.886	ng	96
52) Acenaphthene	9.957	154	1119799	137.582	ng	99
55) Dibenzofuran	10.122	168	511835	43.854	ng	99
58) Fluorene	10.475	166	924337	101.407	ng	99
71) Phenanthrene	11.457	178	4318913	434.350	ng	96
72) Anthracene	11.498	178	981593	96.255	ng	99
73) Carbazole	11.639	167	129262	14.688	ng	95
75) Fluoranthene	12.669	202	8499213	900.648	ng	95
78) Pyrene	12.898	202	6351527m	516.508	ng	
81) Benzo(a)anthracene	14.063	228	2499663	282.440	ng	95
83) Chrysene	14.104	228	1748692	221.430	ng	96
87) Indeno(1,2,3-cd)pyrene	17.057	276	186873	18.370	ng	94
88) Benzo(b)fluoranthene	15.127	252	1569167m	203.047	ng	
89) Benzo(k)fluoranthene	15.151	252	236988m	32.777	ng	
90) Benzo(a)pyrene	15.498	252	632366	84.701	ng	98
91) Dibenzo(a,h)anthracene	17.062	278	48199m	5.831	ng	
92) Benzo(g,h,i)perylene	17.515	276	141513	17.170	ng	98

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

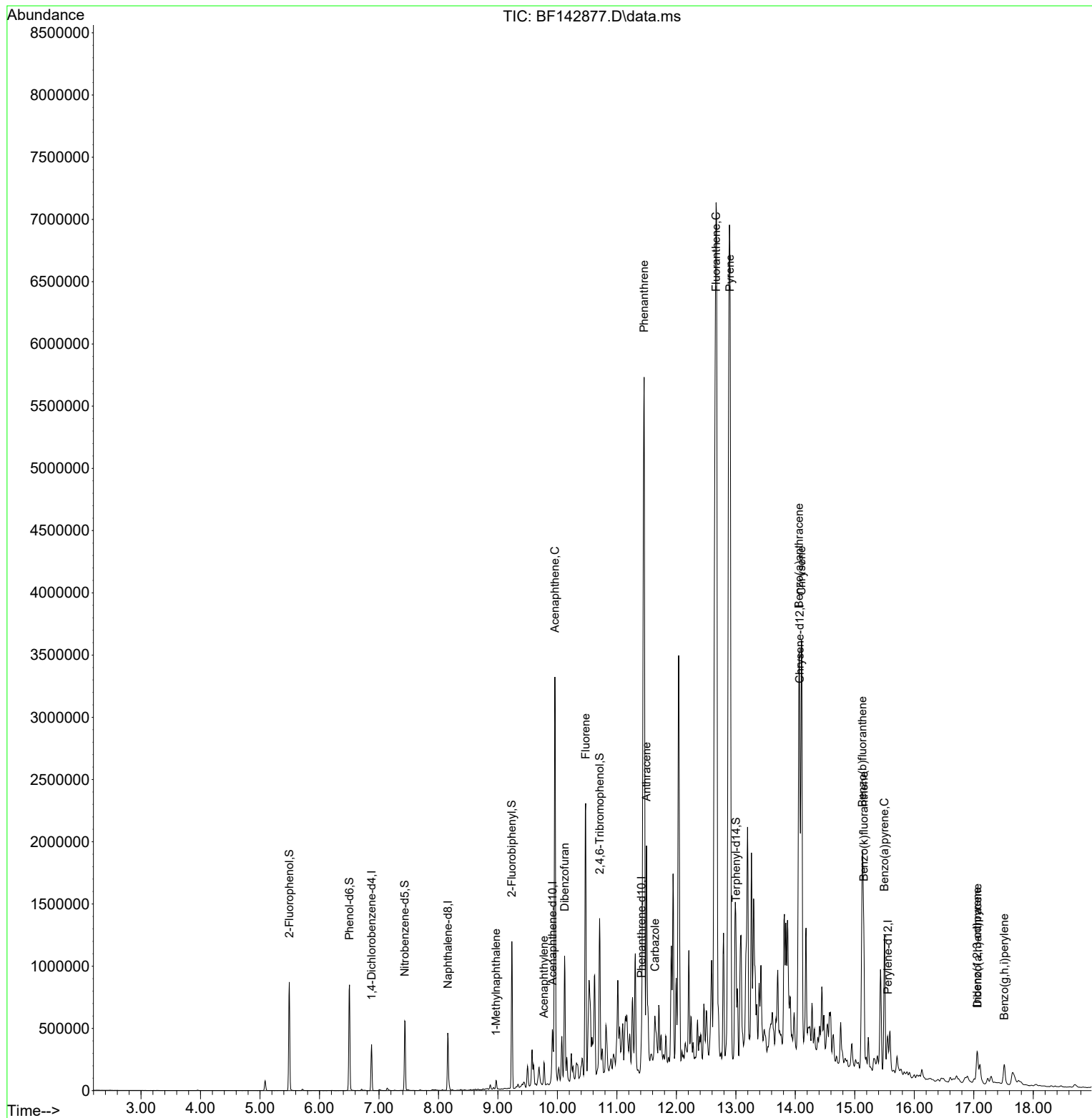
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062625\
Data File : BF142877.D
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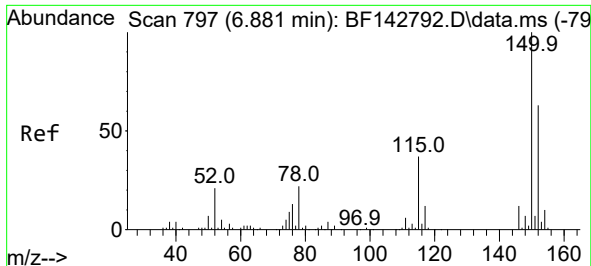
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Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 797
Delta R.T. -0.006 min
Lab File: BF142877.D
Acq: 26 Jun 2025 19:34

Instrument :

BNA_F

ClientSampleId :

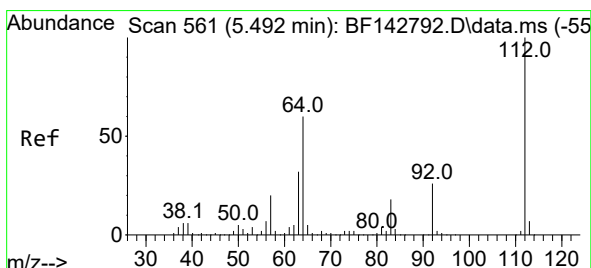
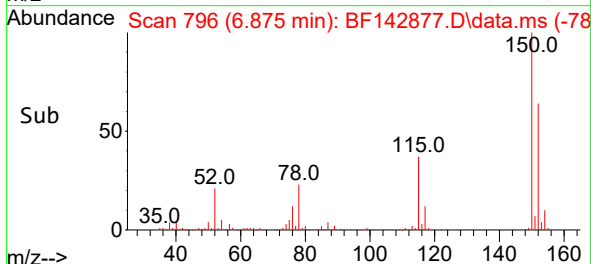
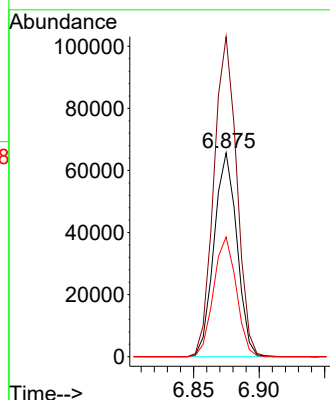
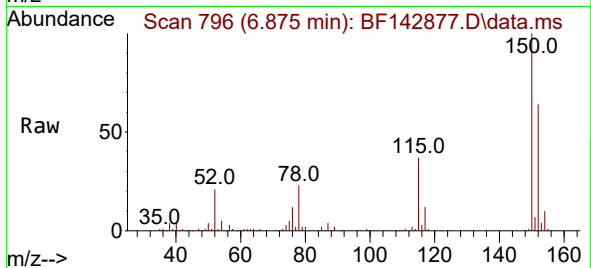
72-11933

Tgt Ion:152 Resp: 79520
Ion Ratio Lower Upper
152 100
150 157.0 127.2 190.8
115 58.8 46.6 69.8

Manual Integrations

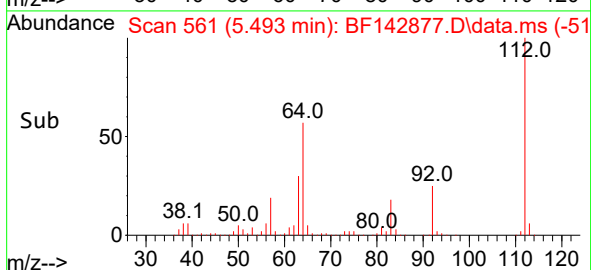
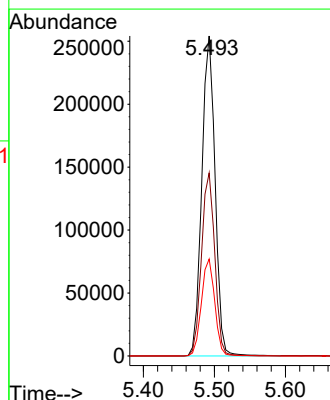
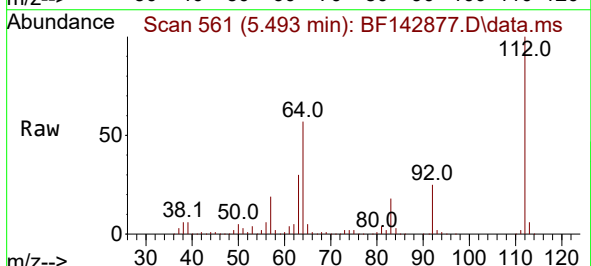
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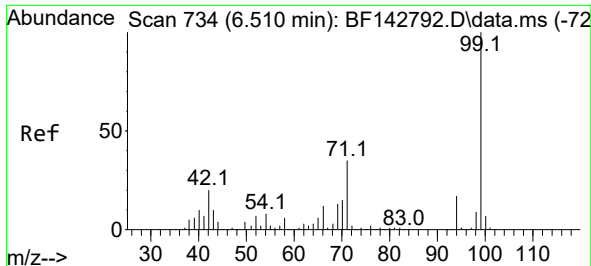
Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025



#5
2-Fluorophenol
Concen: 69.394 ng
RT: 5.493 min Scan# 561
Delta R.T. 0.001 min
Lab File: BF142877.D
Acq: 26 Jun 2025 19:34

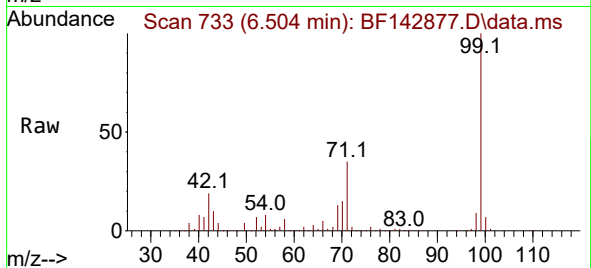
Tgt Ion:112 Resp: 331439
Ion Ratio Lower Upper
112 100
64 57.2 48.2 72.2
63 30.3 25.7 38.5





#7
Phenol-d6
Concen: 70.626 ng
RT: 6.504 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF142877.D
Acq: 26 Jun 2025 19:34

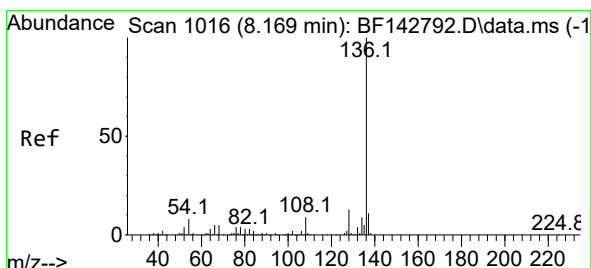
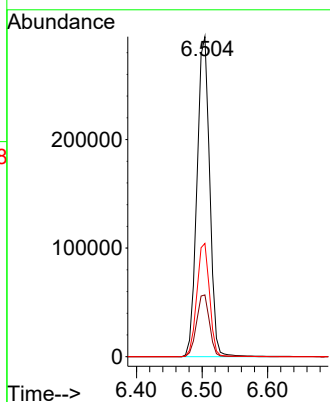
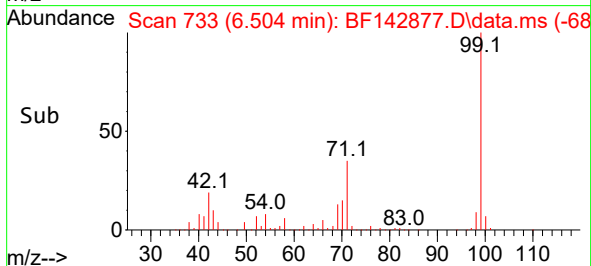
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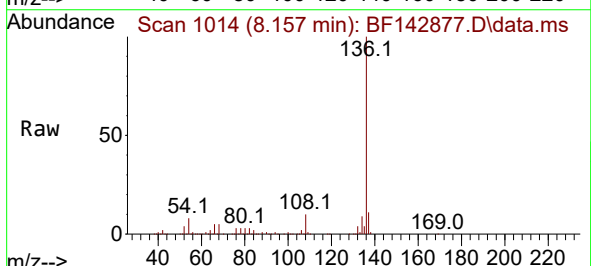
Tgt Ion: 99 Resp: 397979
Ion Ratio Lower Upper
99 100
42 19.3 15.9 23.9
71 35.4 27.8 41.8

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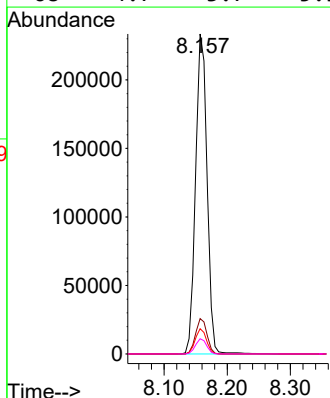
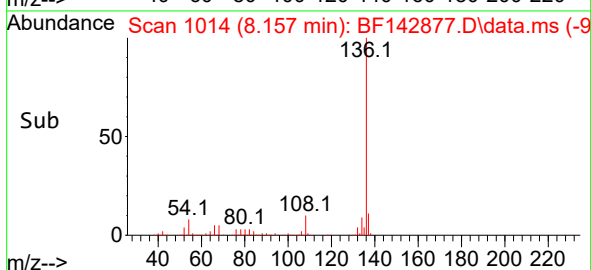
Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025

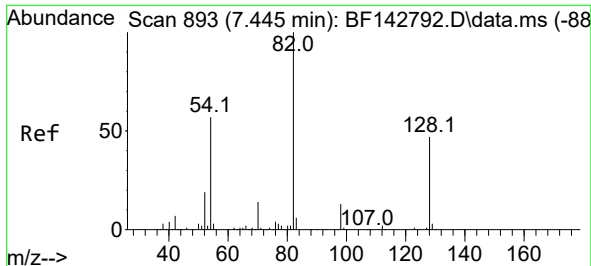


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 1014
Delta R.T. -0.012 min
Lab File: BF142877.D
Acq: 26 Jun 2025 19:34



Tgt Ion:136 Resp: 294096
Ion Ratio Lower Upper
136 100
137 11.0 8.4 12.6
54 7.9 6.3 9.5
68 4.7 3.7 5.5





#23

Nitrobenzene-d5

Concen: 45.445 ng

RT: 7.434 min Scan# 891

Delta R.T. -0.011 min

Lab File: BF142877.D

Acq: 26 Jun 2025 19:34

Instrument :

BNA_F

ClientSampleId :

72-11933

Tgt Ion: 82 Resp: 24366

Ion Ratio Lower Upper

82 100

128 46.1 37.7 56.5

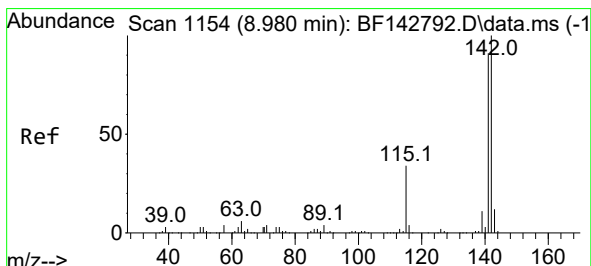
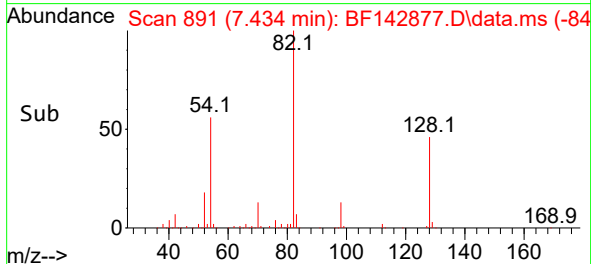
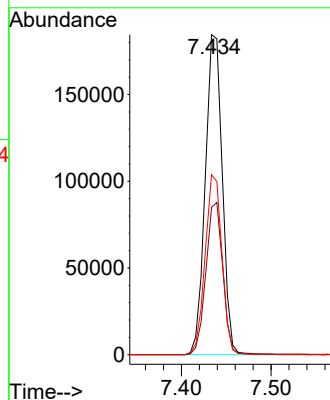
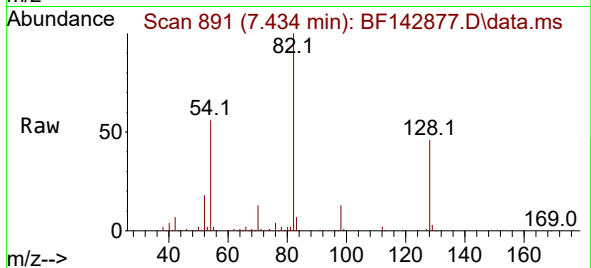
54 56.2 45.7 68.5

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#38

1-Methylnaphthalene

Concen: 2.848 ng

RT: 8.969 min Scan# 1152

Delta R.T. -0.012 min

Lab File: BF142877.D

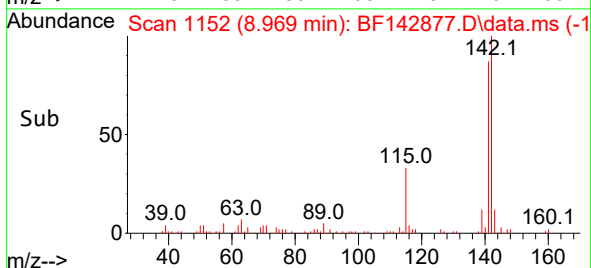
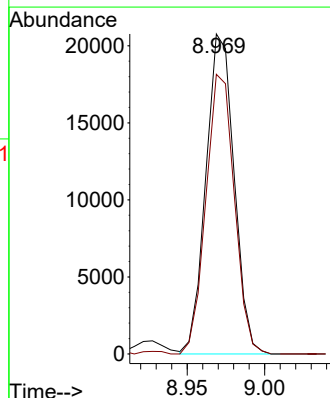
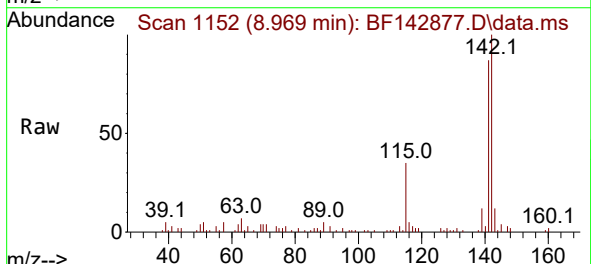
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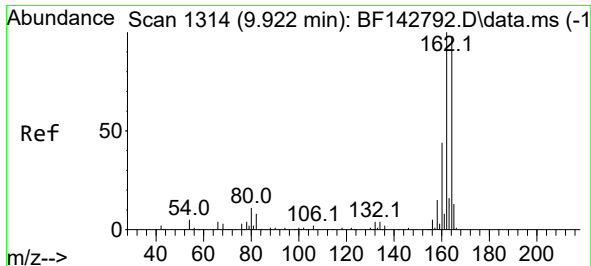
Tgt Ion:142 Resp: 26309

Ion Ratio Lower Upper

142 100

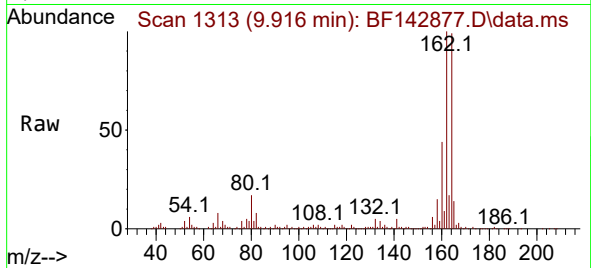
141 87.4 73.0 109.4





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1314
Delta R.T. -0.006 min
Lab File: BF142877.D
Acq: 26 Jun 2025 19:34

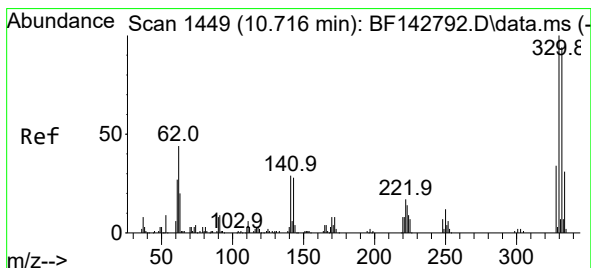
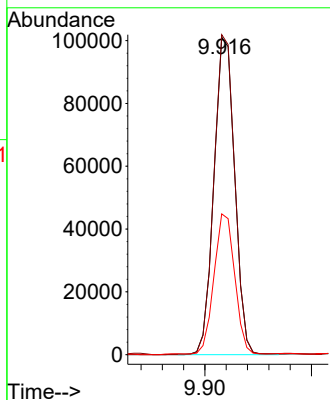
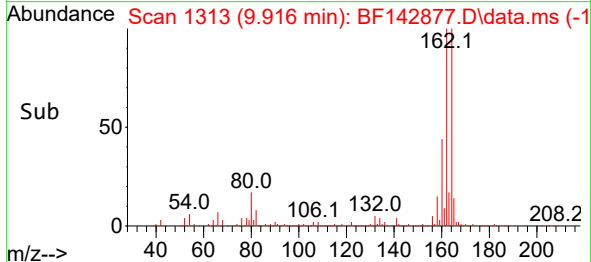
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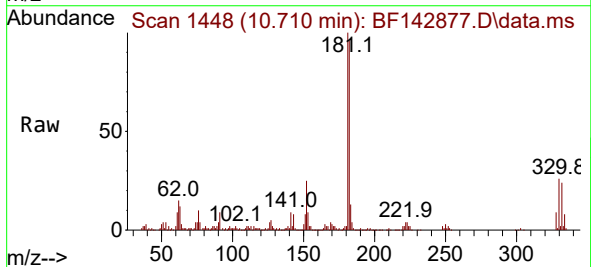
Tgt Ion:164 Resp: 136700
Ion Ratio Lower Upper
164 100
162 100.8 81.8 122.8
160 44.3 36.0 54.0

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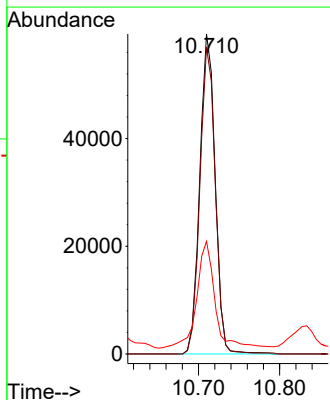
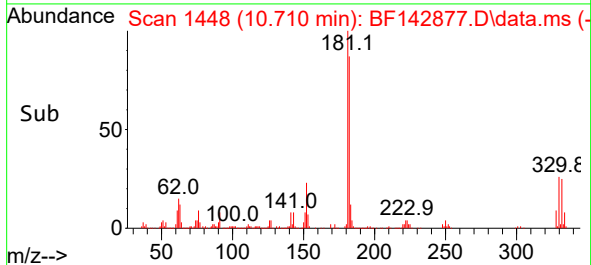
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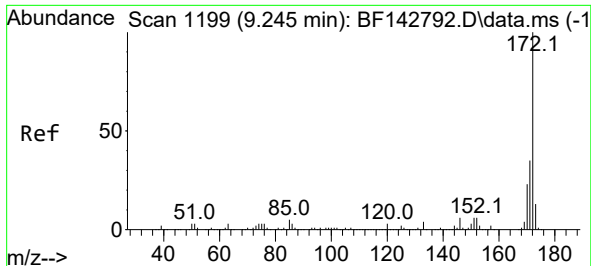


#42
2,4,6-Tribromophenol
Concen: 55.551 ng
RT: 10.710 min Scan# 1448
Delta R.T. -0.006 min
Lab File: BF142877.D
Acq: 26 Jun 2025 19:34



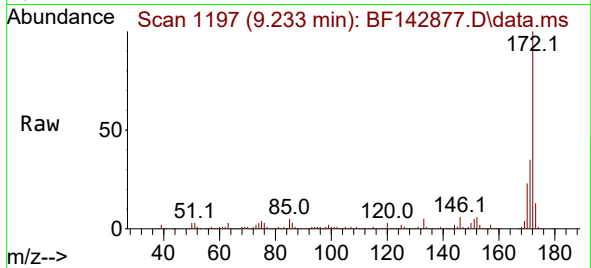
Tgt Ion:330 Resp: 78145
Ion Ratio Lower Upper
330 100
332 95.4 75.0 112.6
141 39.8 25.3 37.9#





#45
2-Fluorobiphenyl
Concen: 49.393 ng
RT: 9.233 min Scan# 1199
Delta R.T. -0.011 min
Lab File: BF142877.D
Acq: 26 Jun 2025 19:34

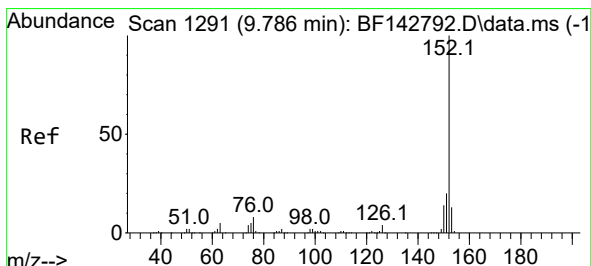
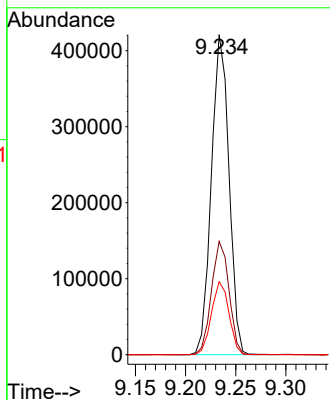
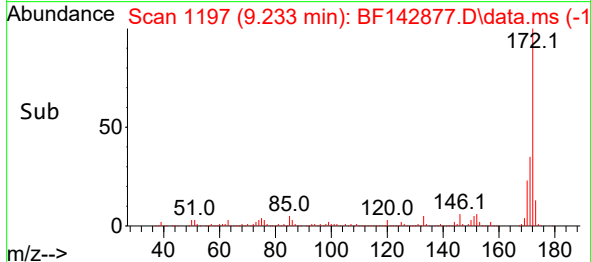
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72-11933



Tgt Ion:172 Resp: 513984
Ion Ratio Lower Upper
172 100
171 35.4 28.2 42.4
170 22.8 18.5 27.7

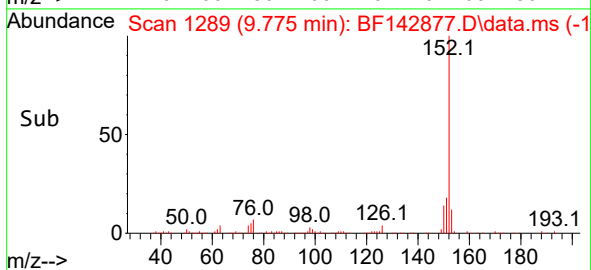
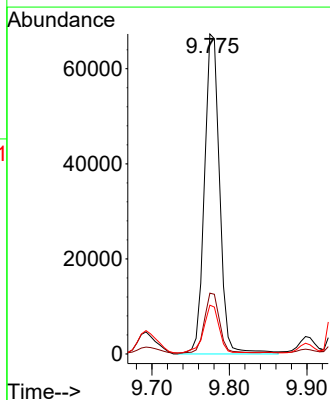
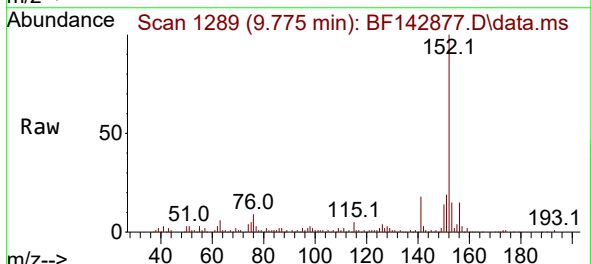
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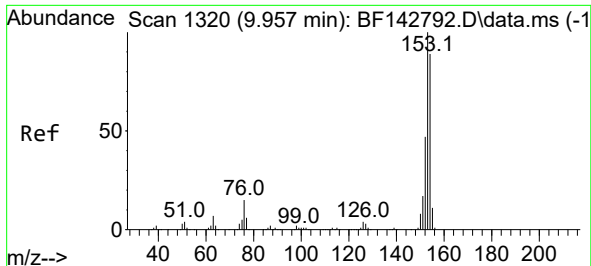
Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025



#49
Acenaphthylene
Concen: 6.886 ng
RT: 9.775 min Scan# 1289
Delta R.T. -0.012 min
Lab File: BF142877.D
Acq: 26 Jun 2025 19:34

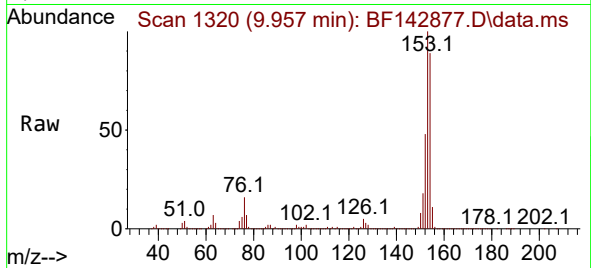
Tgt Ion:152 Resp: 91862
Ion Ratio Lower Upper
152 100
151 19.0 16.1 24.1
153 15.3 10.4 15.6





#52
Acenaphthene
Concen: 137.582 ng
RT: 9.957 min Scan# 111979
Delta R.T. 0.000 min
Lab File: BF142877.D
Acq: 26 Jun 2025 19:34

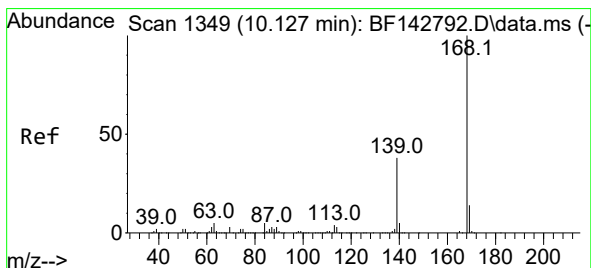
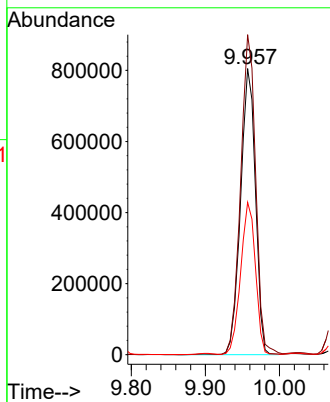
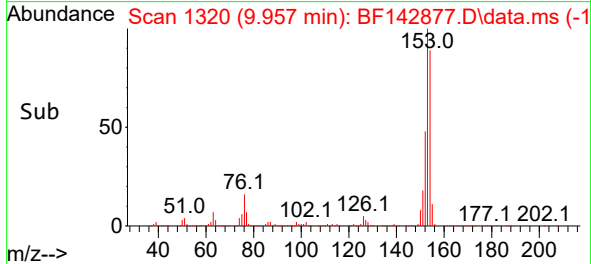
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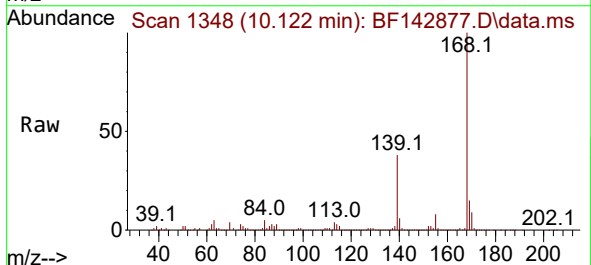
Tgt Ion:154 Resp: 111979
Ion Ratio Lower Upper
154 100
153 111.8 90.0 135.0
152 53.2 41.9 62.9

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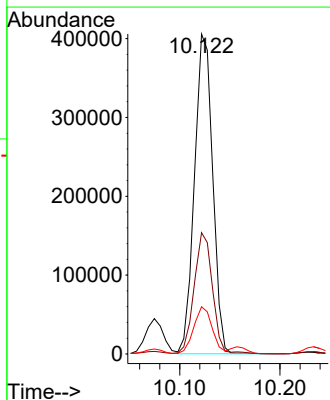
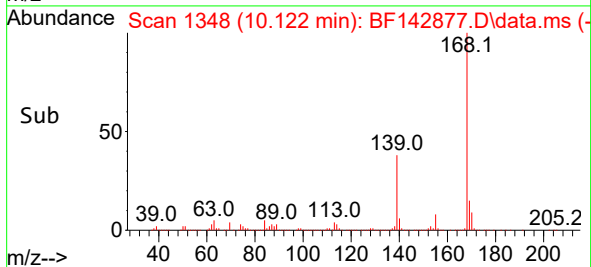
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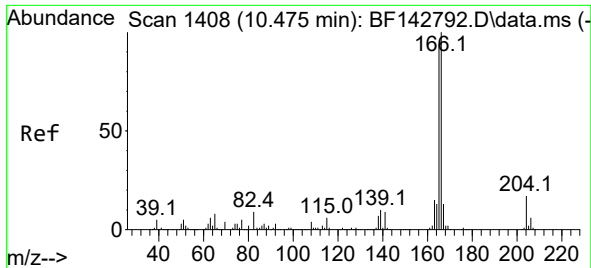


#55
Dibenzofuran
Concen: 43.854 ng
RT: 10.122 min Scan# 1348
Delta R.T. -0.006 min
Lab File: BF142877.D
Acq: 26 Jun 2025 19:34



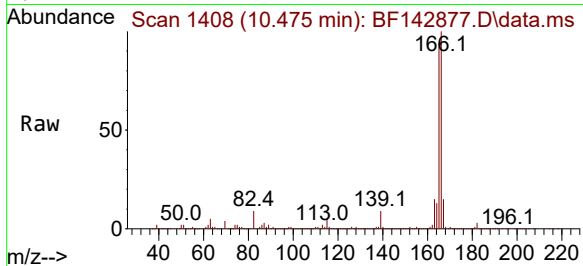
Tgt Ion:168 Resp: 511835
Ion Ratio Lower Upper
168 100
139 37.9 30.2 45.4
169 14.7 10.8 16.2





#58
Fluorene
Concen: 101.407 ng
RT: 10.475 min Scan# 1408
Delta R.T. 0.000 min
Lab File: BF142877.D
Acq: 26 Jun 2025 19:34

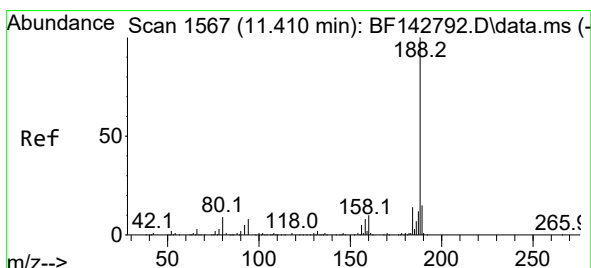
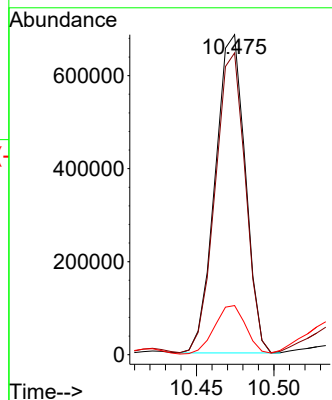
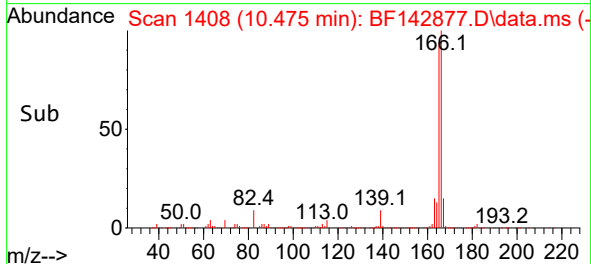
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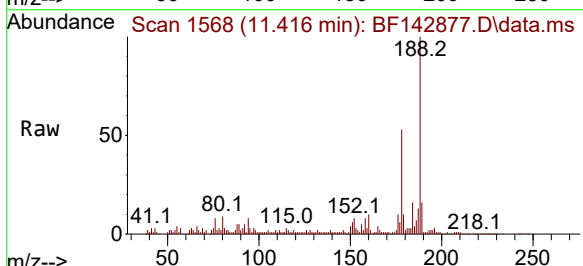
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Ion Ratio Lower Upper
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167 15.3 10.6 15.8

Manual Integrations
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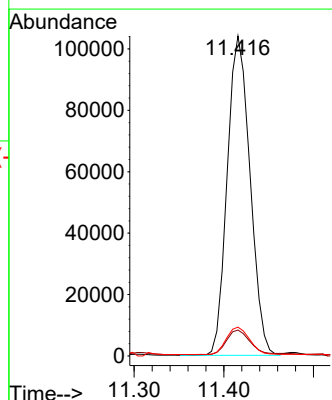
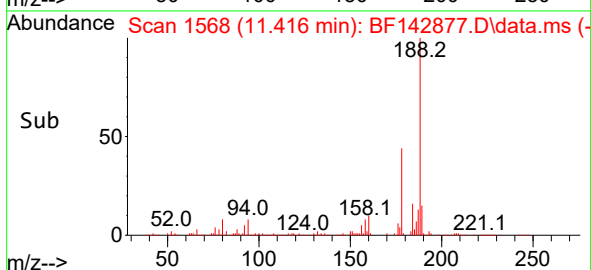
Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025

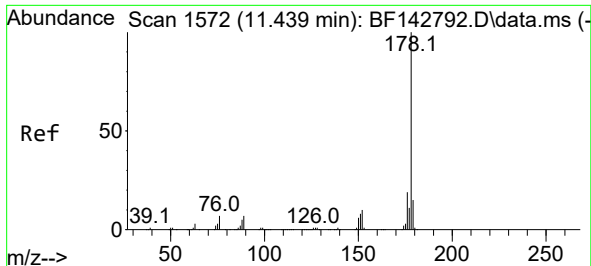


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.416 min Scan# 1568
Delta R.T. 0.006 min
Lab File: BF142877.D
Acq: 26 Jun 2025 19:34



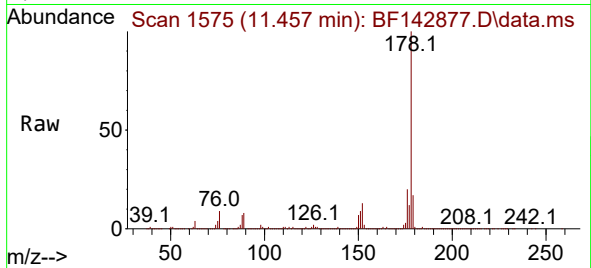
Tgt Ion:188 Resp: 183559
Ion Ratio Lower Upper
188 100
94 8.1 6.7 10.1
80 9.0 6.9 10.3





#71
Phenanthrene
Concen: 434.350 ng
RT: 11.457 min Scan# 1575
Delta R.T. 0.018 min
Lab File: BF142877.D
Acq: 26 Jun 2025 19:34

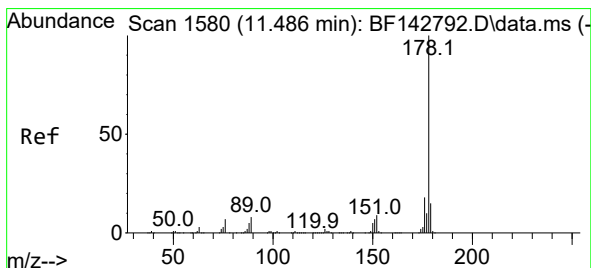
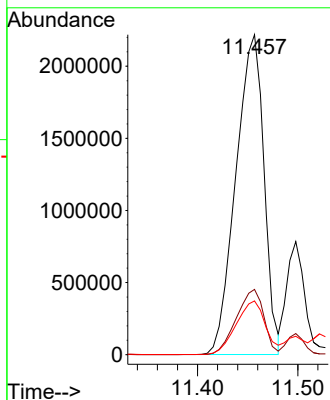
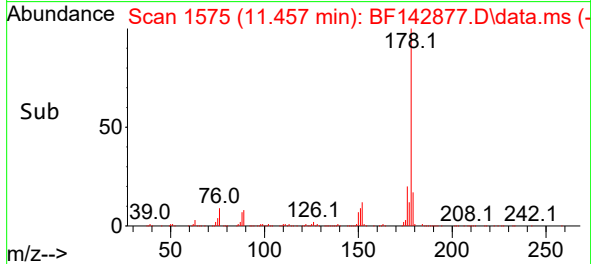
Instrument :
BNA_F
ClientSampleId :
72-11933



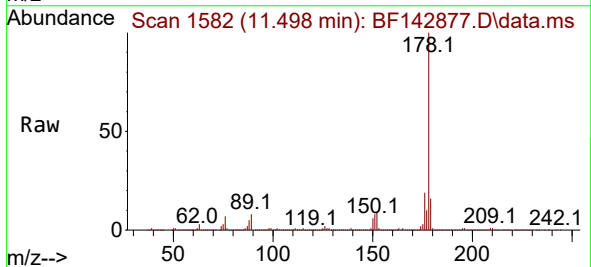
Tgt Ion:178 Resp: 431891
Ion Ratio Lower Upper
178 100
176 20.4 15.1 22.7
179 16.8 12.0 18.0

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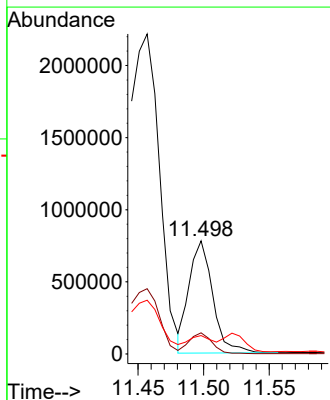
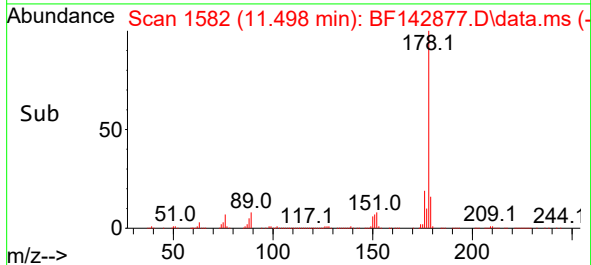
Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025

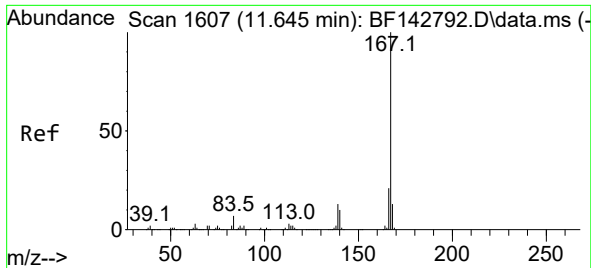


#72
Anthracene
Concen: 96.255 ng
RT: 11.498 min Scan# 1582
Delta R.T. 0.012 min
Lab File: BF142877.D
Acq: 26 Jun 2025 19:34



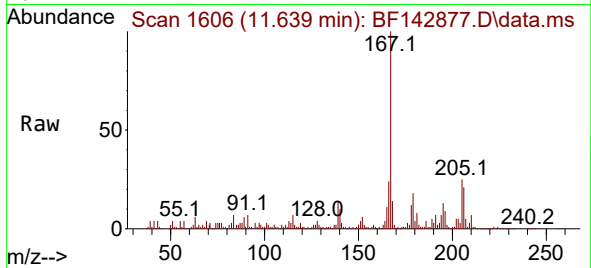
Tgt Ion:178 Resp: 981593
Ion Ratio Lower Upper
178 100
176 18.6 14.6 21.8
179 16.3 12.4 18.6





#73
 Carbazole
 Concen: 14.688 ng
 RT: 11.639 min Scan# 1606
 Delta R.T. -0.006 min
 Lab File: BF142877.D
 Acq: 26 Jun 2025 19:34

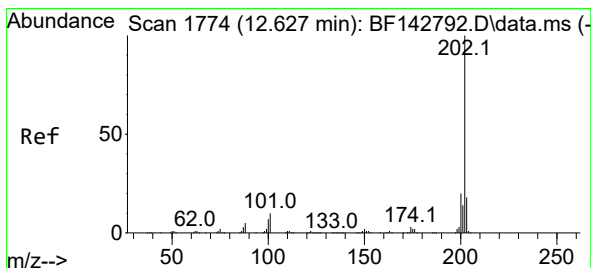
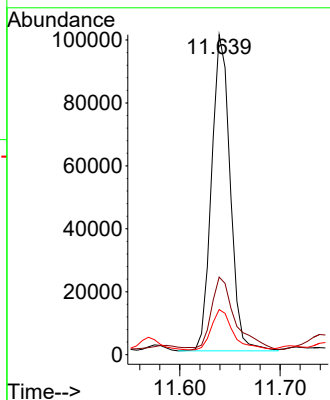
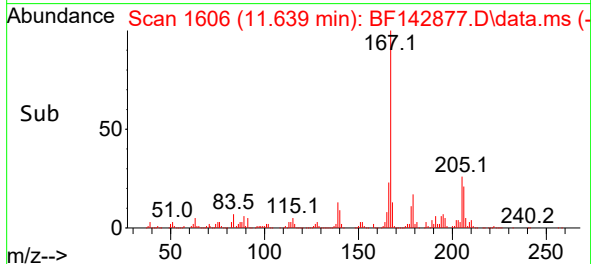
Instrument :
 BNA_F
 ClientSampleId :
 72-11933



Tgt Ion:167 Resp: 129262
 Ion Ratio Lower Upper
 167 100
 166 24.3 17.0 25.4
 139 14.1 10.2 15.2

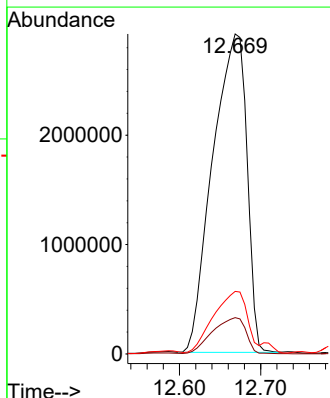
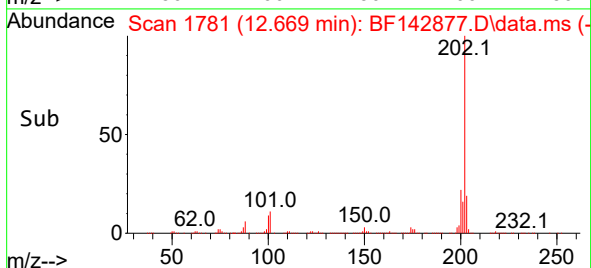
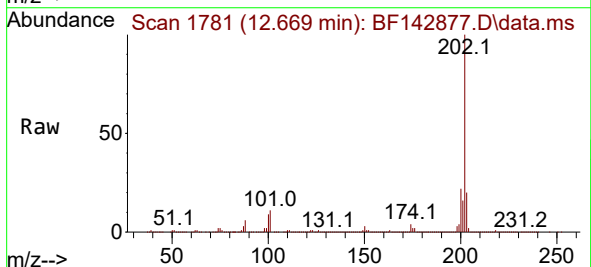
Manual Integrations
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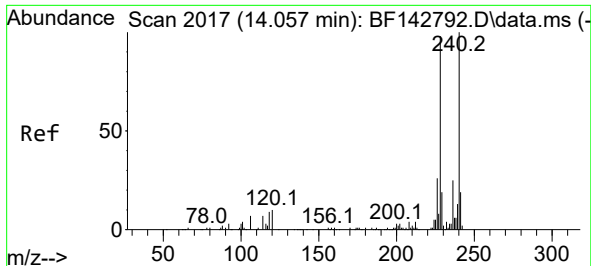
Reviewed By :Rahul Chavli 06/27/2025
 Supervised By :Jagrut Upadhyay 06/27/2025



#75
 Fluoranthene
 Concen: 900.648 ng
 RT: 12.669 min Scan# 1781
 Delta R.T. 0.041 min
 Lab File: BF142877.D
 Acq: 26 Jun 2025 19:34

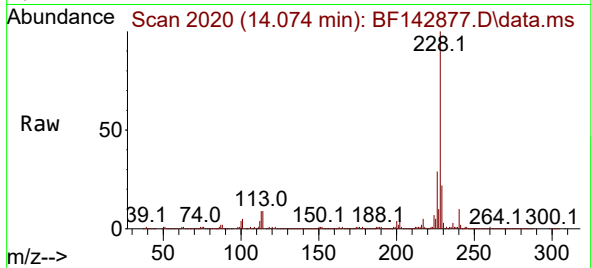
Tgt Ion:202 Resp: 8499213
 Ion Ratio Lower Upper
 202 100
 101 11.4 0.0 29.7
 203 19.5 0.0 37.5





#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.074 min Scan# 2017
Delta R.T. 0.018 min
Lab File: BF142877.D
Acq: 26 Jun 2025 19:34

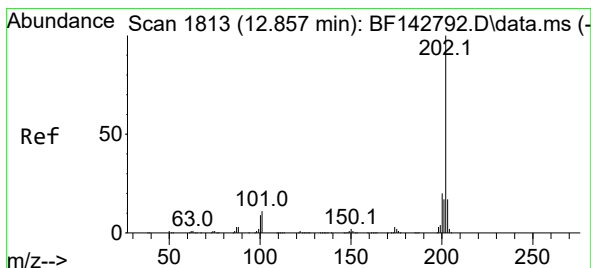
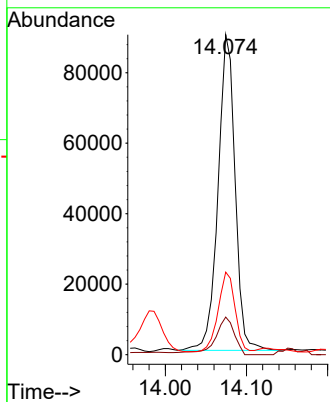
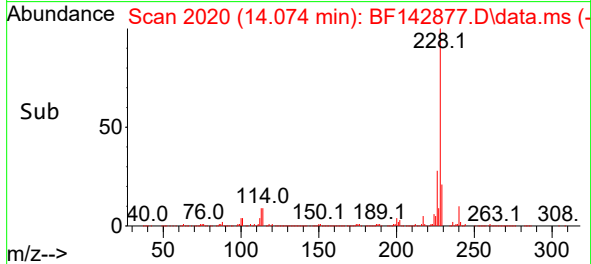
Instrument :
BNA_F
ClientSampleId :
72-11933



Tgt Ion:240 Resp: 13119
Ion Ratio Lower Upper
240 100
120 11.7 8.2 12.2
236 25.8 19.8 29.8

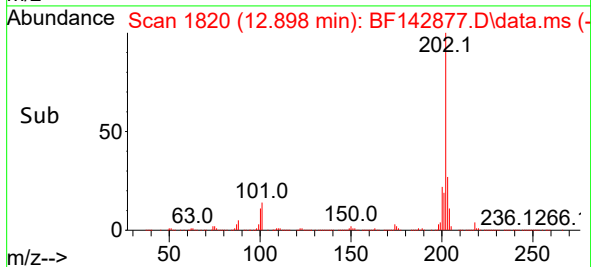
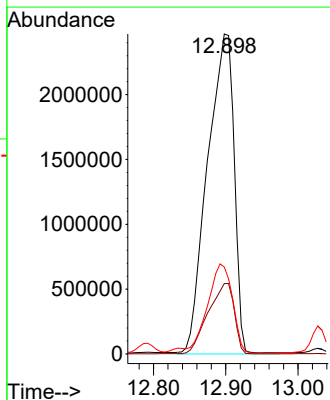
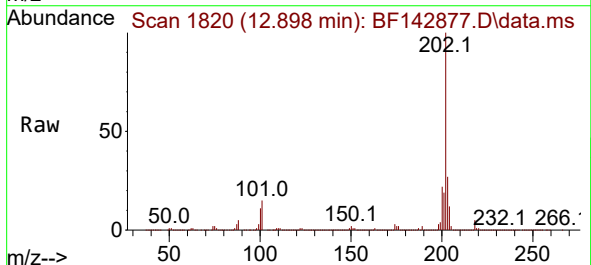
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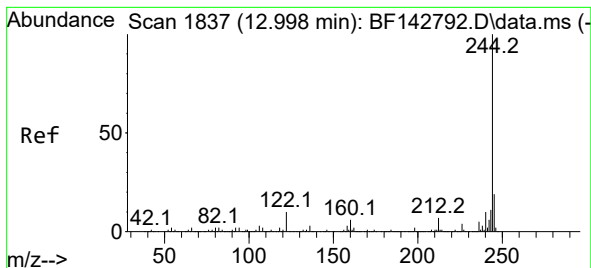
Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025



#78
Pyrene
Concen: 516.508 ng m
RT: 12.898 min Scan# 1820
Delta R.T. 0.041 min
Lab File: BF142877.D
Acq: 26 Jun 2025 19:34

Tgt Ion:202 Resp: 6351527
Ion Ratio Lower Upper
202 100
200 22.0 15.7 23.5
203 27.2 13.8 20.6#





#79

Terphenyl-d14

Concen: 41.199 ng

RT: 13.004 min Scan# 1838

Delta R.T. 0.006 min

Lab File: BF142877.D

Acq: 26 Jun 2025 19:34

Instrument :

BNA_F

ClientSampleId :

72-11933

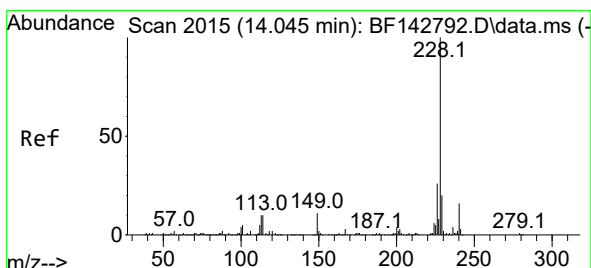
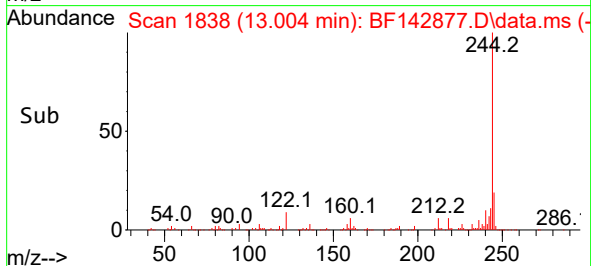
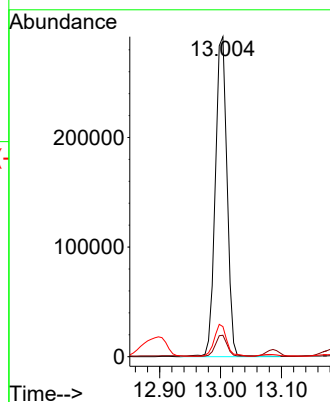
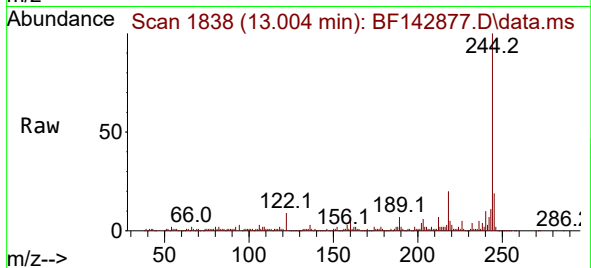
Tgt Ion:244 Resp: 391182
 Ion Ratio Lower Upper
 244 100
 212 6.7 5.4 8.0
 122 9.4 8.2 12.2

Manual Integrations

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Reviewed By :Rahul Chavli 06/27/2025

Supervised By :Jagrut Upadhyay 06/27/2025



#81

Benzo(a)anthracene

Concen: 282.440 ng

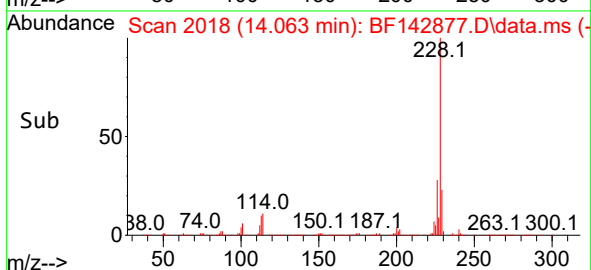
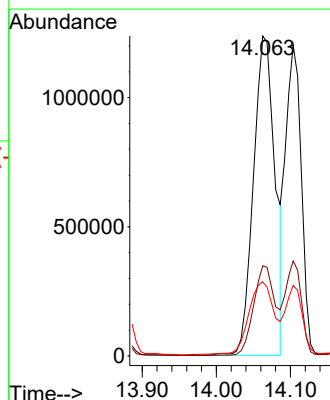
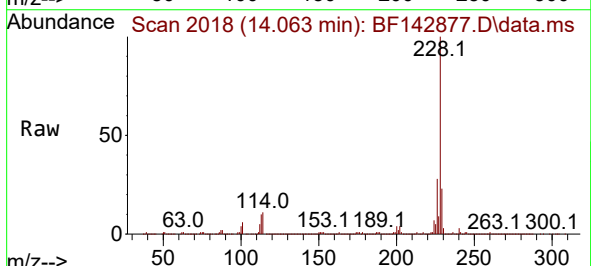
RT: 14.063 min Scan# 2018

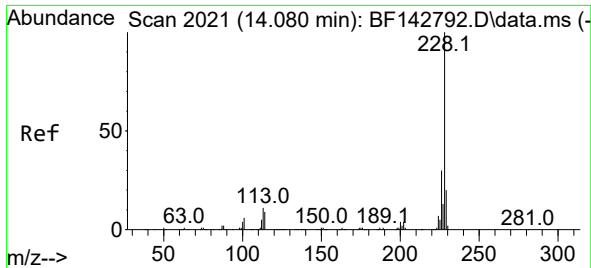
Delta R.T. 0.018 min

Lab File: BF142877.D

Acq: 26 Jun 2025 19:34

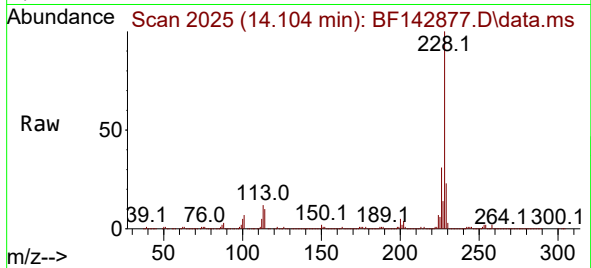
Tgt Ion:228 Resp: 2499663
 Ion Ratio Lower Upper
 228 100
 226 28.2 21.2 31.8
 229 23.1 15.6 23.4





#83
Chrysene
Concen: 221.430 ng
RT: 14.104 min Scan# 2021
Delta R.T. 0.024 min
Lab File: BF142877.D
Acq: 26 Jun 2025 19:34

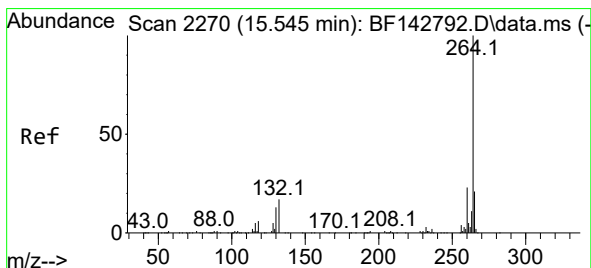
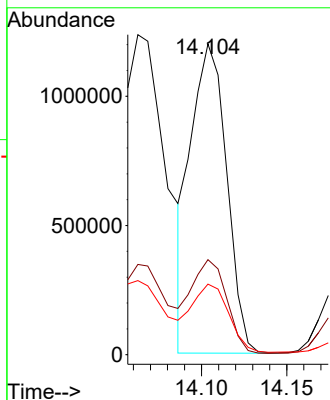
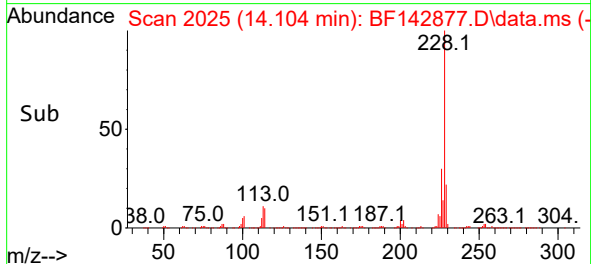
Instrument :
BNA_F
ClientSampleId :
72-11933



Tgt Ion:228 Resp: 1748692
Ion Ratio Lower Upper
228 100
226 30.6 23.7 35.5
229 22.7 15.7 23.5

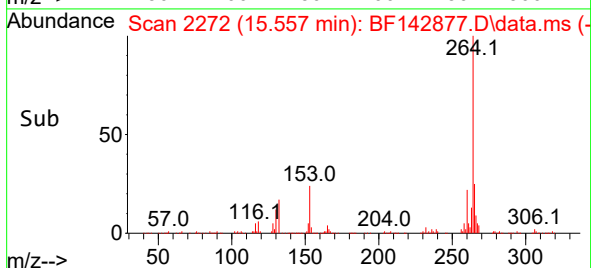
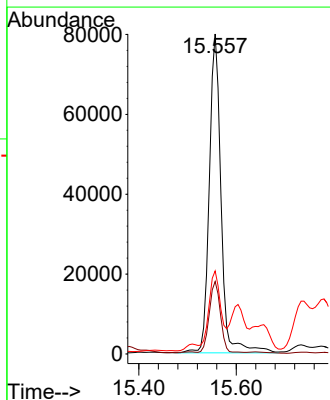
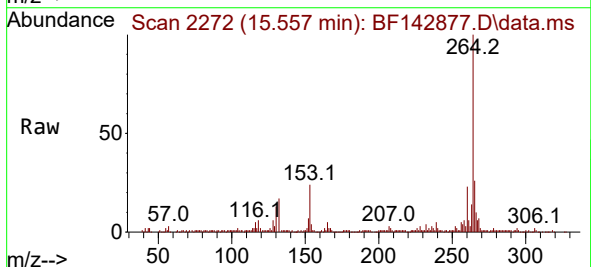
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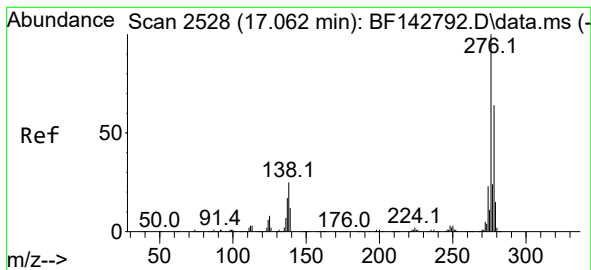
Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 2272
Delta R.T. 0.012 min
Lab File: BF142877.D
Acq: 26 Jun 2025 19:34

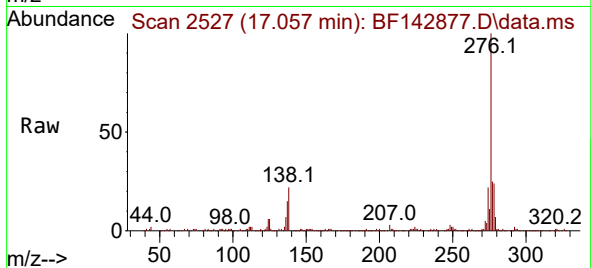
Tgt Ion:264 Resp: 133555
Ion Ratio Lower Upper
264 100
260 22.7 18.1 27.1
265 25.9 16.6 25.0#





#87
Indeno(1,2,3-cd)pyrene
Concen: 18.370 ng
RT: 17.057 min Scan# 2199
Delta R.T. -0.006 min
Lab File: BF142877.D
Acq: 26 Jun 2025 19:34

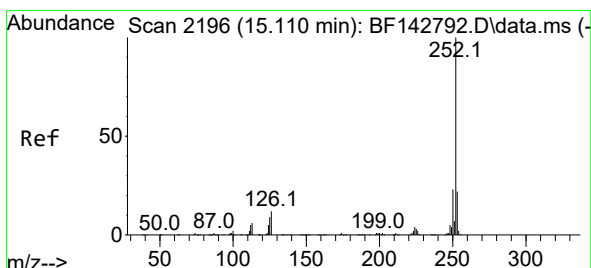
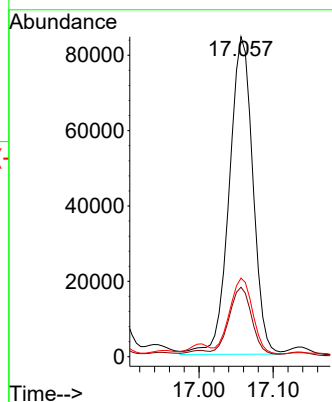
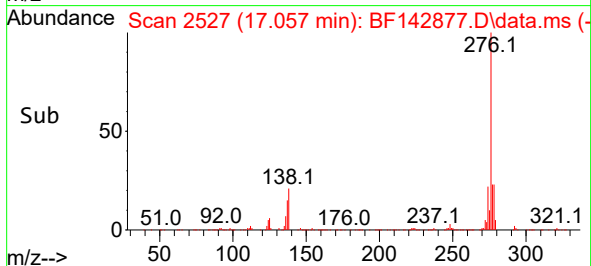
Instrument :
BNA_F
ClientSampleId :
72-11933



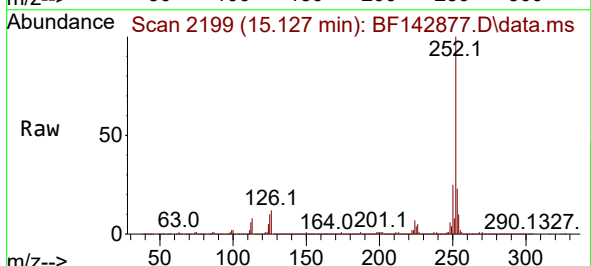
Tgt Ion:276 Resp: 18687
Ion Ratio Lower Upper
276 100
138 20.7 20.2 30.4
277 23.0 19.8 29.6

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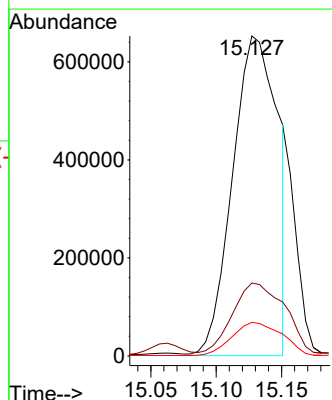
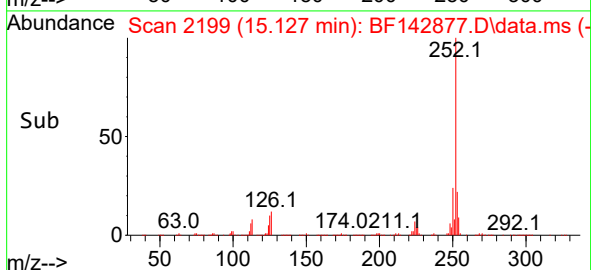
Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025

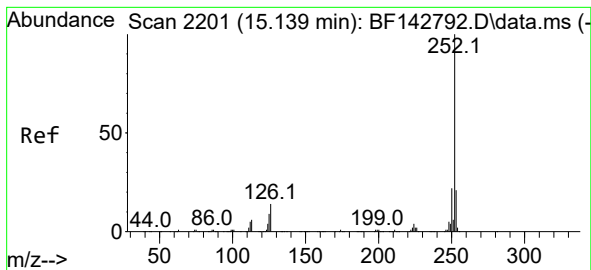


#88
Benzo(b)fluoranthene
Concen: 203.047 ng m
RT: 15.127 min Scan# 2199
Delta R.T. 0.018 min
Lab File: BF142877.D
Acq: 26 Jun 2025 19:34



Tgt Ion:252 Resp: 1569167
Ion Ratio Lower Upper
252 100
253 22.8 17.5 26.3
125 10.5 7.4 11.0





#89

Benzo(k)fluoranthene

Concen: 32.777 ng m

RT: 15.151 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF142877.D

Acq: 26 Jun 2025 19:34

Instrument :

BNA_F

ClientSampleId :

72-11933

Tgt Ion:252 Resp: 236988

Ion Ratio Lower Upper

252 100

253 23.4 17.2 25.8

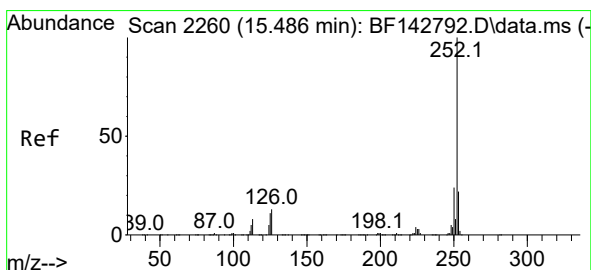
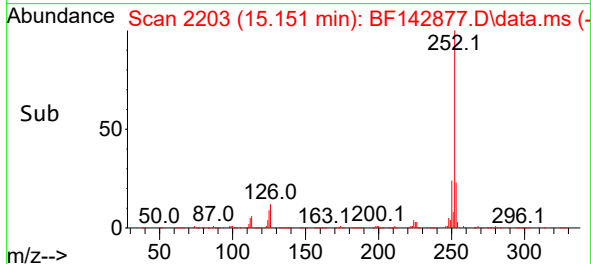
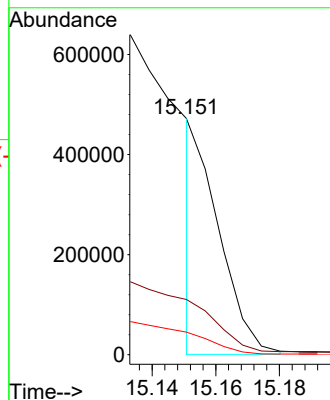
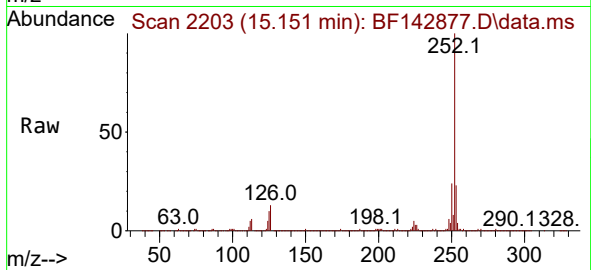
125 9.5 7.4 11.2

Manual Integrations

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Reviewed By :Rahul Chavli 06/27/2025

Supervised By :Jagrut Upadhyay 06/27/2025



#90

Benzo(a)pyrene

Concen: 84.701 ng

RT: 15.498 min Scan# 2262

Delta R.T. 0.012 min

Lab File: BF142877.D

Acq: 26 Jun 2025 19:34

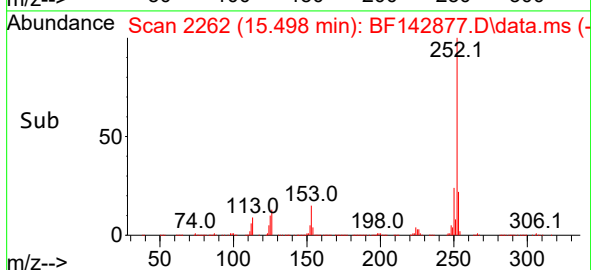
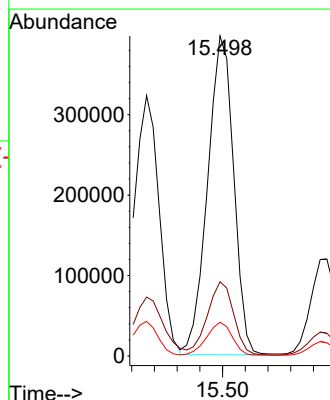
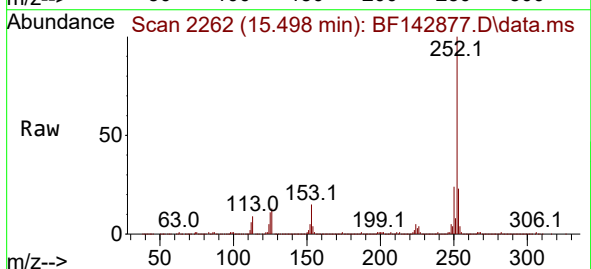
Tgt Ion:252 Resp: 632366

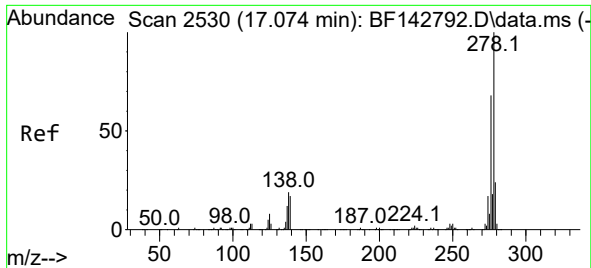
Ion Ratio Lower Upper

252 100

253 23.2 17.5 26.3

125 10.6 8.6 12.8





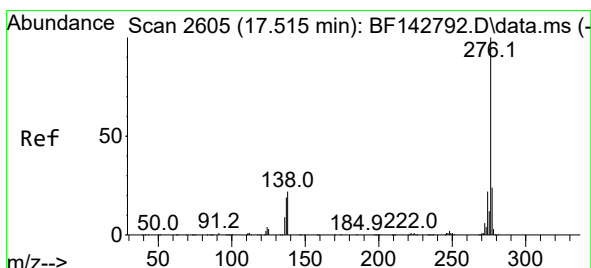
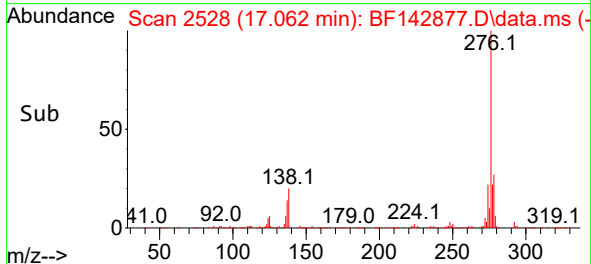
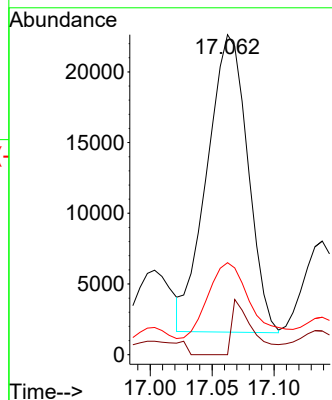
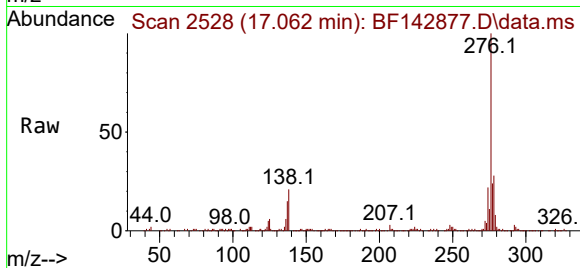
#91
Dibenzo(a,h)anthracene
Concen: 5.831 ng m
RT: 17.062 min Scan# 2528
Delta R.T. -0.012 min
Lab File: BF142877.D
Acq: 26 Jun 2025 19:34

Instrument :
BNA_F
ClientSampleId :
72-11933

Tgt Ion:278 Resp: 48199
Ion Ratio Lower Upper
278 100
139 0.0 13.5 20.3
279 28.8 18.8 28.2

Manual Integrations
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Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025



#92
Benzo(g,h,i)perylene
Concen: 17.170 ng
RT: 17.515 min Scan# 2605
Delta R.T. 0.000 min
Lab File: BF142877.D
Acq: 26 Jun 2025 19:34

Tgt Ion:276 Resp: 141513
Ion Ratio Lower Upper
276 100
277 23.0 18.8 28.2
138 20.1 17.6 26.4

