

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080625\
 Data File : BF143340.D
 Acq On : 06 Aug 2025 20:07
 Operator : RC/JU
 Sample : Q2774-13 10X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 254

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 08/07/2025
 Supervised By :Jagrut Upadhyay 08/07/2025

Quant Time: Aug 07 01:01:42 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jul 17 15:14:05 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.963	152	71191	20.000	ng	0.00
21) Naphthalene-d8	8.245	136	290264	20.000	ng	0.00
39) Acenaphthene-d10	9.998	164	125529	20.000	ng	0.00
64) Phenanthrene-d10	11.486	188	204837	20.000	ng	0.00
76) Chrysene-d12	14.133	240	157784	20.000	ng	0.01
86) Perylene-d12	15.645	264	127868	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.593	112	30422	6.762	ng	0.00
7) Phenol-d6	6.587	99	35153	6.208	ng	0.00
23) Nitrobenzene-d5	7.516	82	22094	3.794	ng	0.00
42) 2,4,6-Tribromophenol	10.786	330	8659	6.677	ng	0.00
45) 2-Fluorobiphenyl	9.316	172	52197	5.687	ng	0.00
79) Terphenyl-d14	13.069	244	60024	5.661	ng	0.00
Target Compounds						Qvalue
52) Acenaphthene	10.034	154	18763	2.614	ng	94
58) Fluorene	10.545	166	30703	3.839	ng	98
71) Phenanthrene	11.516	178	488970	44.958	ng	99
72) Anthracene	11.563	178	119059	10.733	ng	99
73) Carbazole	11.716	167	60180	6.213	ng	98
75) Fluoranthene	12.710	202	1176687	117.870	ng	99
78) Pyrene	12.939	202	1049188	77.914	ng	98
81) Benzo(a)anthracene	14.121	228	461371	43.675	ng	98
83) Chrysene	14.163	228	462456	48.691	ng	97
87) Indeno(1,2,3-cd)pyrene	17.192	276	139199m	15.438	ng	
88) Benzo(b)fluoranthene	15.198	252	471820m	60.400	ng	
89) Benzo(k)fluoranthene	15.216	252	162673m	23.337	ng	
90) Benzo(a)pyrene	15.580	252	317565	44.124	ng	99
91) Dibenzo(a,h)anthracene	17.198	278	30048	4.094	ng	95
92) Benzo(g,h,i)perylene	17.662	276	135518	19.090	ng	98

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

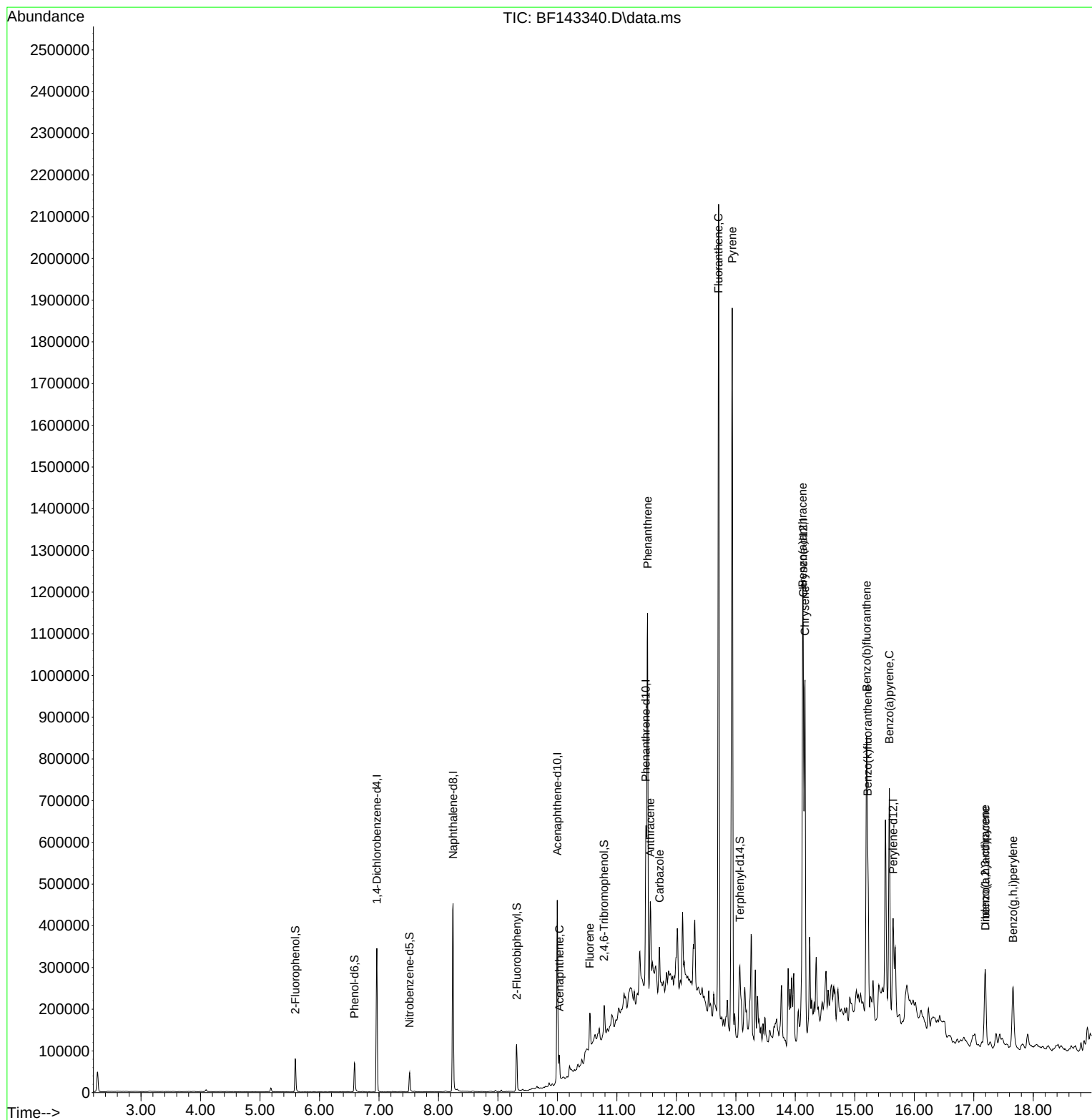
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080625\
Data File : BF143340.D
Acq On : 06 Aug 2025 20:07
Operator : RC/JU
Sample : Q2774-13 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

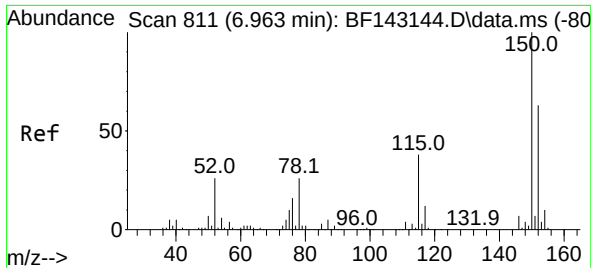
Instrument :
BNA_F
ClientSampleId :
254

Quant Time: Aug 07 01:01:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 17 15:14:05 2025
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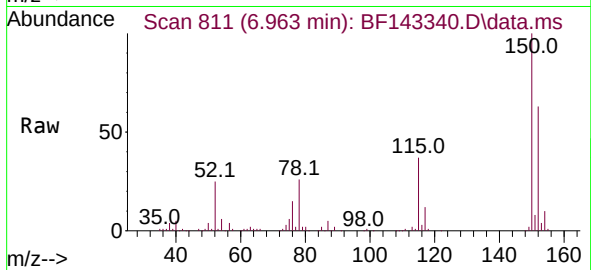
Reviewed By :Rahul Chavli 08/07/2025
Supervised By :Jagrut Upadhyay 08/07/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.963 min Scan# 811
Delta R.T. 0.000 min
Lab File: BF143340.D
Acq: 06 Aug 2025 20:07

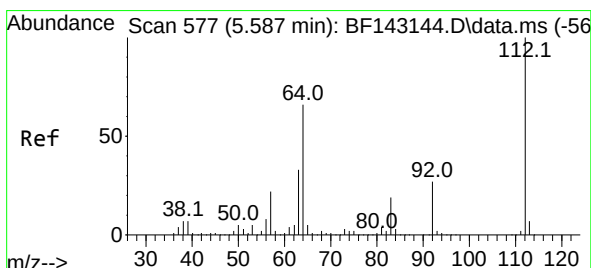
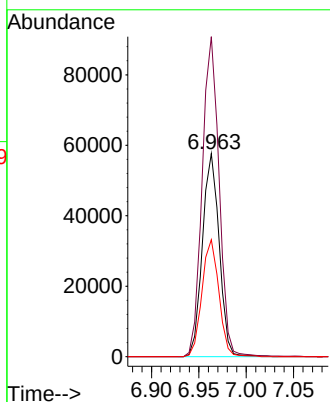
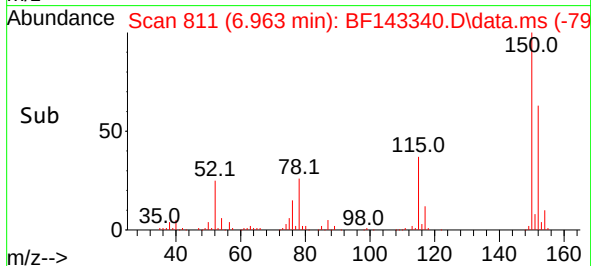
Instrument :
BNA_F
ClientSampleId :
254



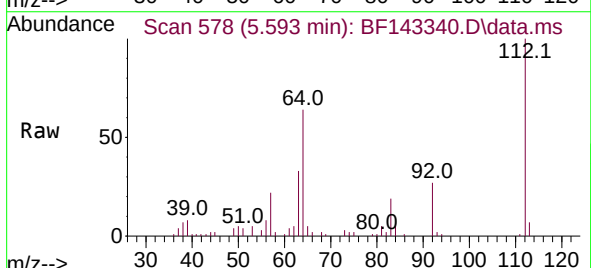
Tgt Ion:152 Resp: 7119
Ion Ratio Lower Upper
152 100
150 157.5 128.2 192.4
115 57.6 47.9 71.9

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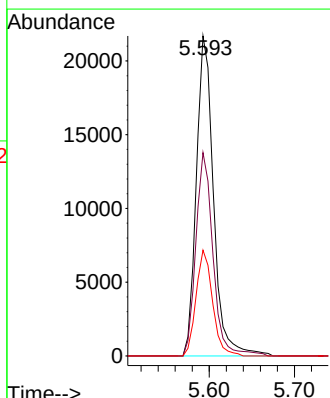
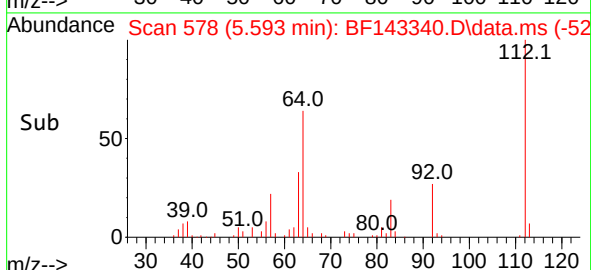
Reviewed By :Rahul Chavli 08/07/2025
Supervised By :Jagrut Upadhyay 08/07/2025

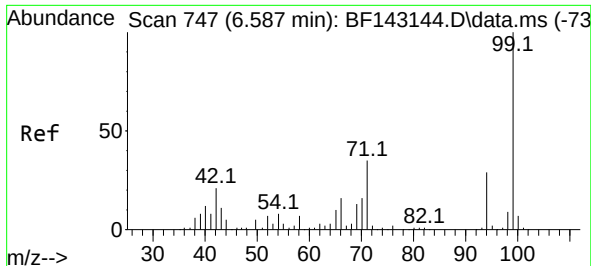


#5
2-Fluorophenol
Concen: 6.762 ng
RT: 5.593 min Scan# 578
Delta R.T. 0.006 min
Lab File: BF143340.D
Acq: 06 Aug 2025 20:07



Tgt Ion:112 Resp: 30422
Ion Ratio Lower Upper
112 100
64 63.6 53.1 79.7
63 33.0 26.6 40.0





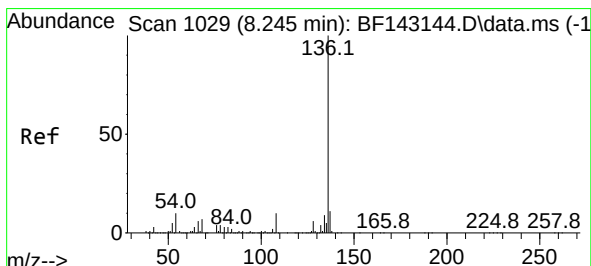
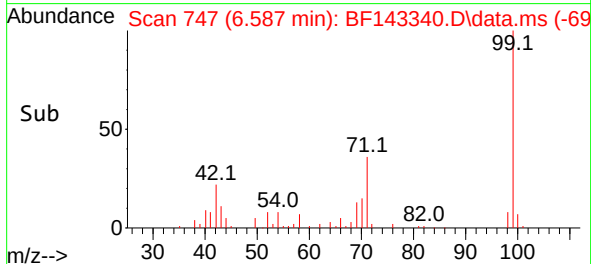
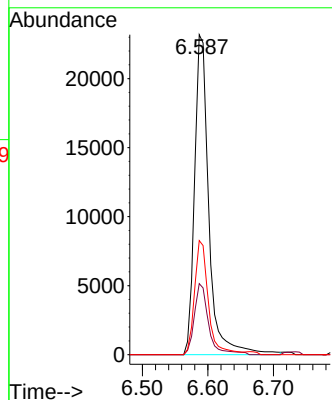
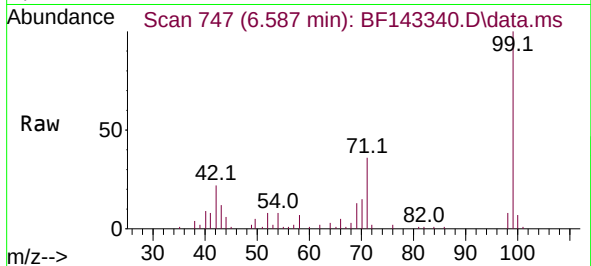
#7
Phenol-d6
Concen: 6.208 ng
RT: 6.587 min Scan# 747
Delta R.T. 0.000 min
Lab File: BF143340.D
Acq: 06 Aug 2025 20:07

Instrument :
BNA_F
ClientSampleId :
254

Tgt Ion: 99 Resp: 3515
Ion Ratio Lower Upper
99 100
42 22.2 17.0 25.6
71 35.7 27.7 41.5

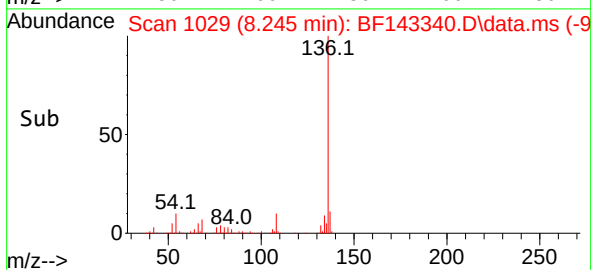
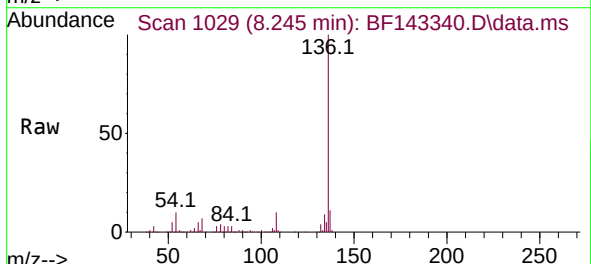
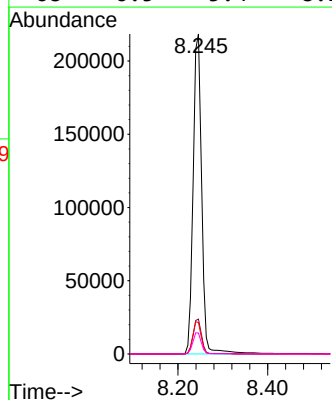
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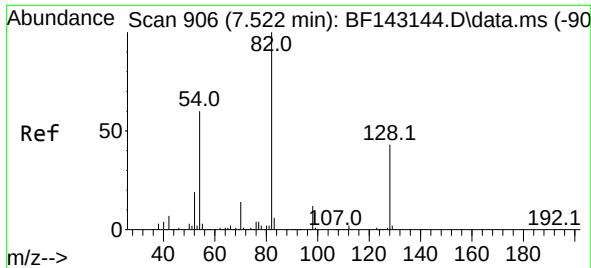
Reviewed By :Rahul Chavli 08/07/2025
Supervised By :Jagrut Upadhyay 08/07/2025



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.245 min Scan# 1029
Delta R.T. 0.000 min
Lab File: BF143340.D
Acq: 06 Aug 2025 20:07

Tgt Ion:136 Resp: 290264
Ion Ratio Lower Upper
136 100
137 10.9 8.6 13.0
54 9.8 8.2 12.2
68 6.5 5.4 8.2





#23

Nitrobenzene-d5

Concen: 3.794 ng

RT: 7.516 min Scan# 906

Delta R.T. -0.006 min

Lab File: BF143340.D

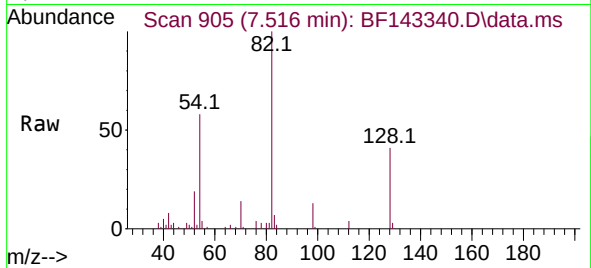
Acq: 06 Aug 2025 20:07

Instrument :

BNA_F

ClientSampleId :

254



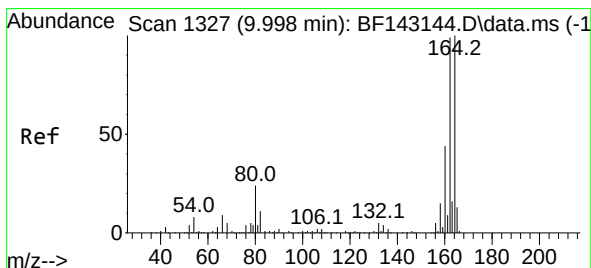
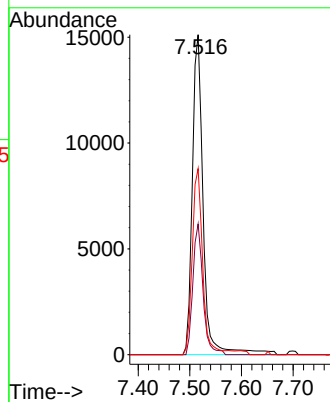
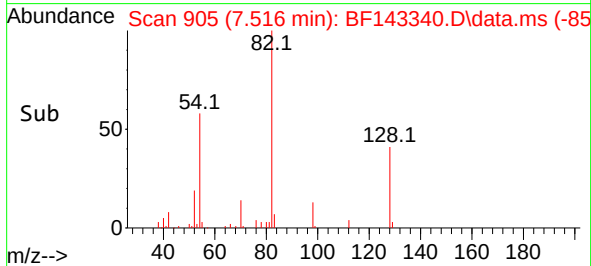
Tgt Ion:	82	Resp:	22094
Ion Ratio	Lower	Upper	
82	100		
128	40.9	33.6	50.4
54	58.2	47.1	70.7

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#39

Acenaphthene-d10

Concen: 20.000 ng

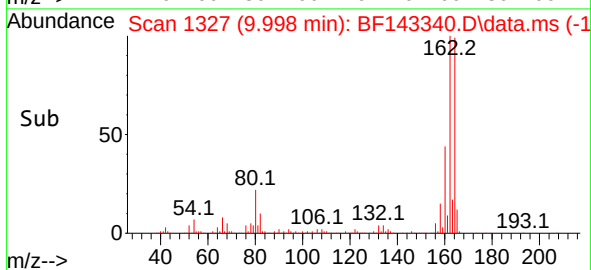
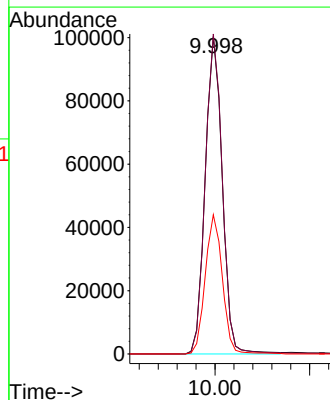
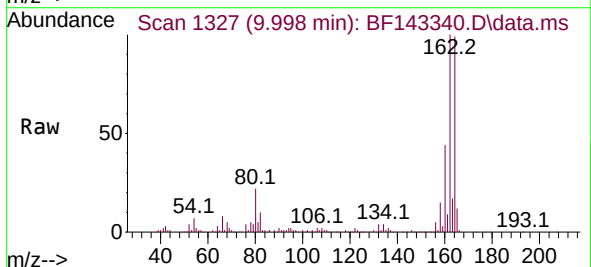
RT: 9.998 min Scan# 1327

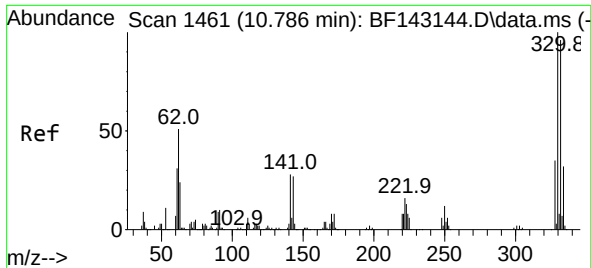
Delta R.T. 0.000 min

Lab File: BF143340.D

Acq: 06 Aug 2025 20:07

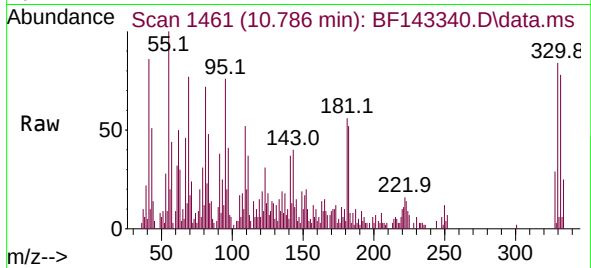
Tgt Ion:	164	Resp:	125529
Ion Ratio	Lower	Upper	
164	100		
162	100.8	79.0	118.6
160	43.9	35.1	52.7





#42
2,4,6-Tribromophenol
Concen: 6.677 ng
RT: 10.786 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BF143340.D
Acq: 06 Aug 2025 20:07

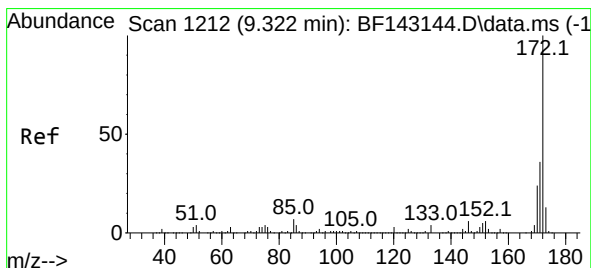
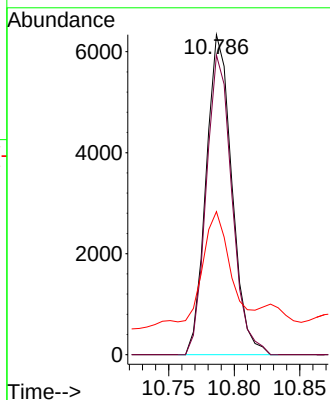
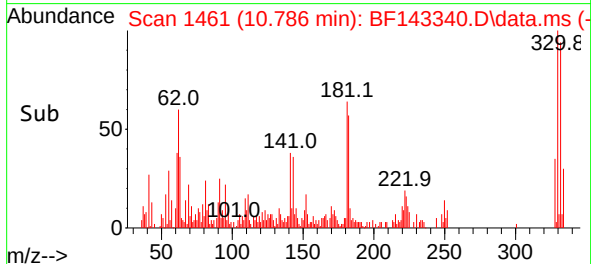
Instrument :
BNA_F
ClientSampleId :
254



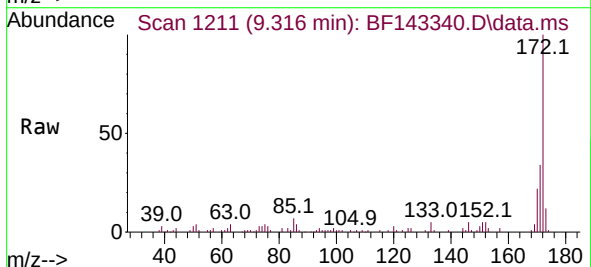
Tgt Ion: 330 Resp: 8659
Ion Ratio Lower Upper
330 100
332 93.4 76.7 115.1
141 43.5 23.3 34.9

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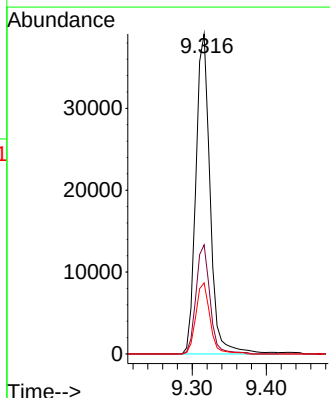
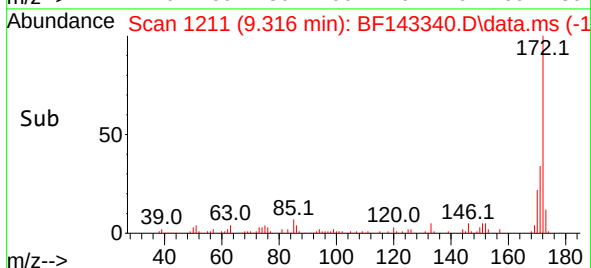
Reviewed By :Rahul Chavli 08/07/2025
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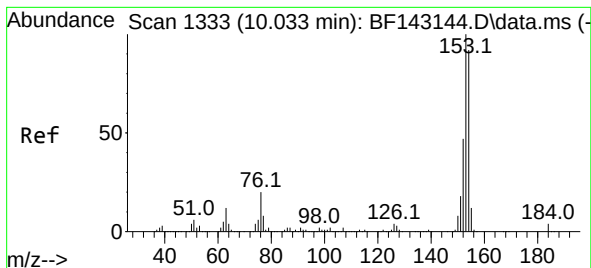


#45
2-Fluorobiphenyl
Concen: 5.687 ng
RT: 9.316 min Scan# 1211
Delta R.T. -0.006 min
Lab File: BF143340.D
Acq: 06 Aug 2025 20:07



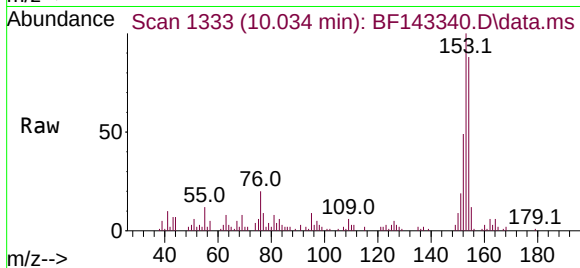
Tgt Ion: 172 Resp: 52197
Ion Ratio Lower Upper
172 100
171 34.1 28.6 42.8
170 22.2 18.8 28.2





#52
Acenaphthene
Concen: 2.614 ng
RT: 10.034 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF143340.D
Acq: 06 Aug 2025 20:07

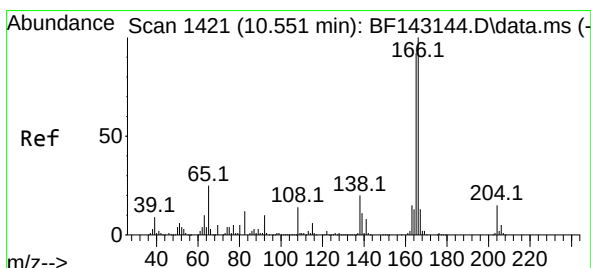
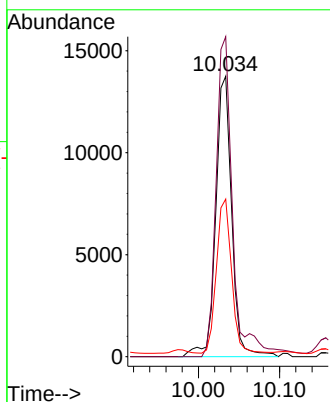
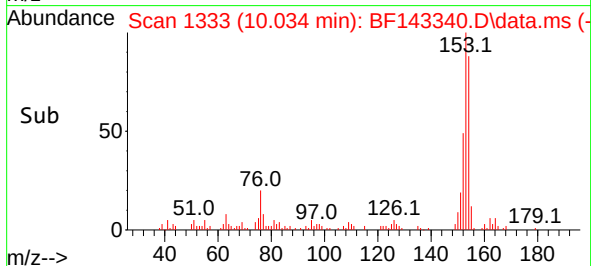
Instrument :
BNA_F
ClientSampleId :
254



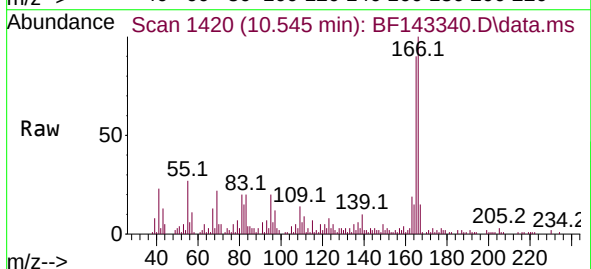
Tgt Ion:154 Resp: 1876
Ion Ratio Lower Upper
154 100
153 114.1 86.6 129.8
152 56.2 40.4 60.6

Manual Integrations
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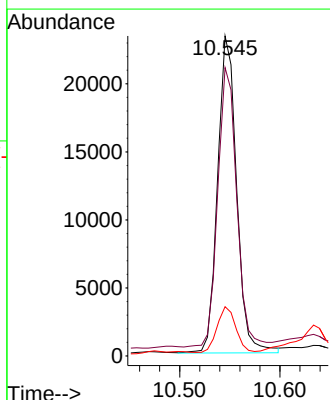
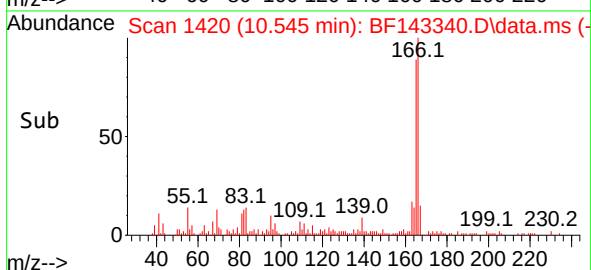
Reviewed By :Rahul Chavli 08/07/2025
Supervised By :Jagrut Upadhyay 08/07/2025

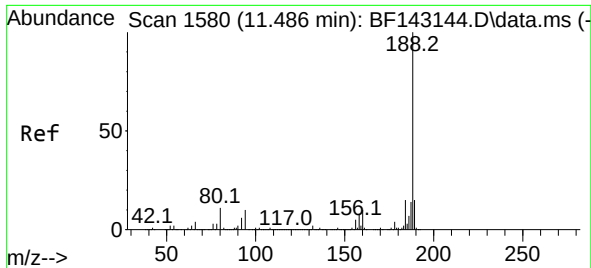


#58
Fluorene
Concen: 3.839 ng
RT: 10.545 min Scan# 1420
Delta R.T. -0.006 min
Lab File: BF143340.D
Acq: 06 Aug 2025 20:07



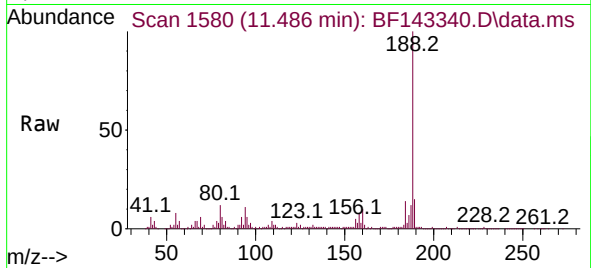
Tgt Ion:166 Resp: 30703
Ion Ratio Lower Upper
166 100
165 90.1 73.7 110.5
167 15.4 10.6 16.0





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.486 min Scan# 1580
Delta R.T. 0.000 min
Lab File: BF143340.D
Acq: 06 Aug 2025 20:07

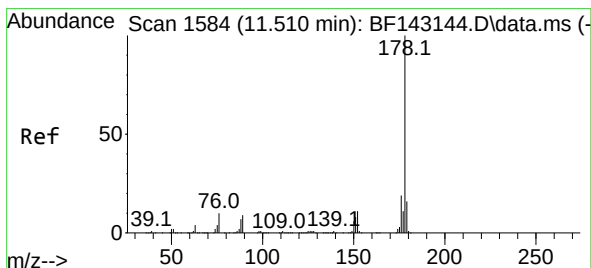
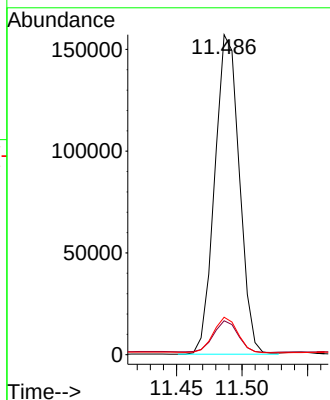
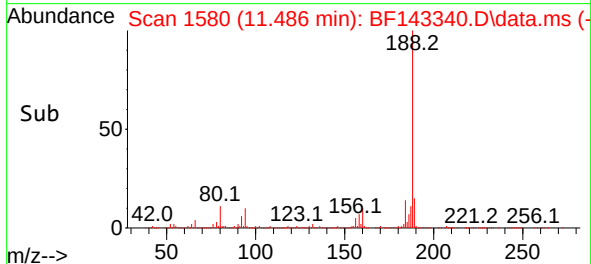
Instrument :
BNA_F
ClientSampleId :
254



Tgt Ion:188 Resp: 20483
Ion Ratio Lower Upper
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94 10.6 8.3 12.5
80 11.7 9.0 13.6

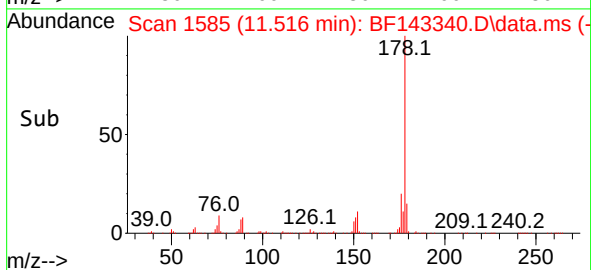
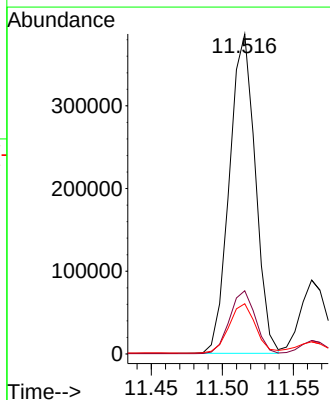
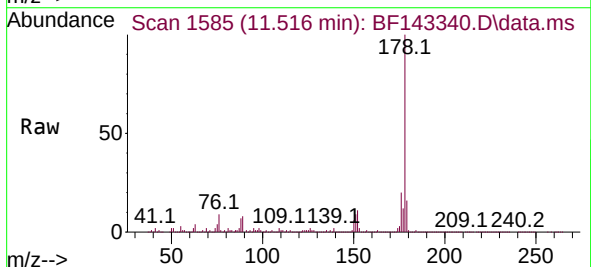
Manual Integrations
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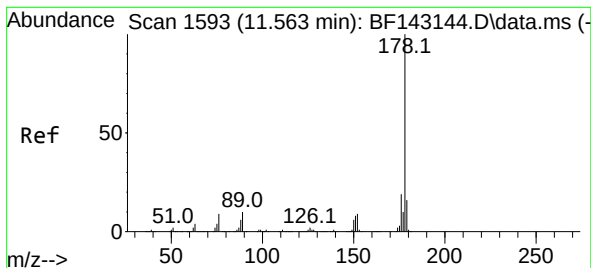
Reviewed By :Rahul Chavli 08/07/2025
Supervised By :Jagrut Upadhyay 08/07/2025



#71
Phenanthrene
Concen: 44.958 ng
RT: 11.516 min Scan# 1585
Delta R.T. 0.006 min
Lab File: BF143340.D
Acq: 06 Aug 2025 20:07

Tgt Ion:178 Resp: 488970
Ion Ratio Lower Upper
178 100
176 19.8 15.3 22.9
179 15.7 12.5 18.7





#72

Anthracene

Concen: 10.733 ng

RT: 11.563 min Scan# 1159

Delta R.T. 0.000 min

Lab File: BF143340.D

Acq: 06 Aug 2025 20:07

Instrument :

BNA_F

ClientSampleId :

254

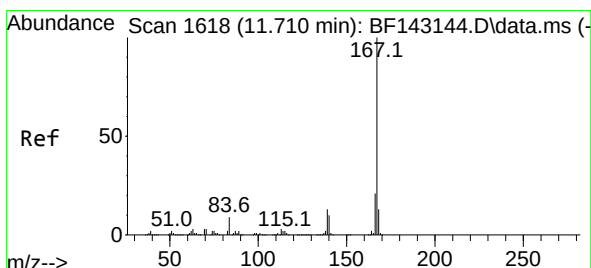
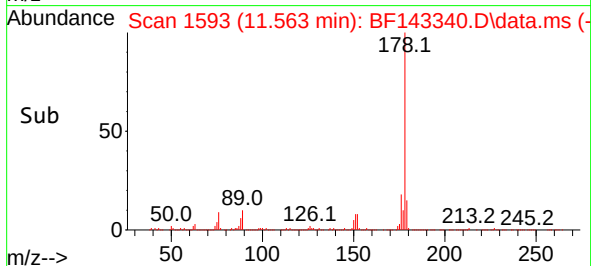
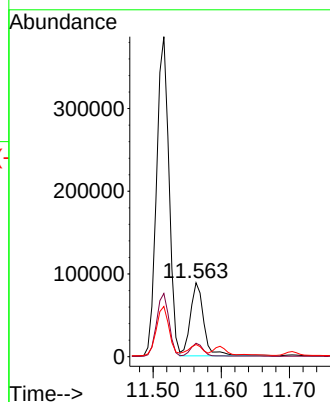
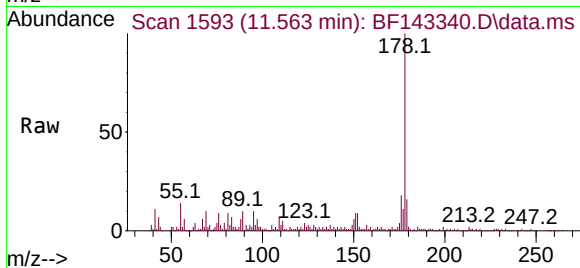
Tgt Ion:178 Resp: 119059
 Ion Ratio Lower Upper
 178 100
 176 18.2 15.0 22.4
 179 16.4 12.5 18.7

Manual Integrations

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Reviewed By :Rahul Chavli 08/07/2025

Supervised By :Jagrut Upadhyay 08/07/2025



#73

Carbazole

Concen: 6.213 ng

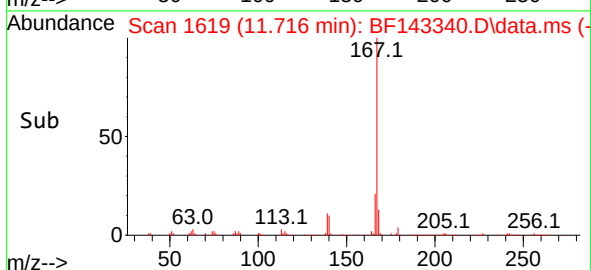
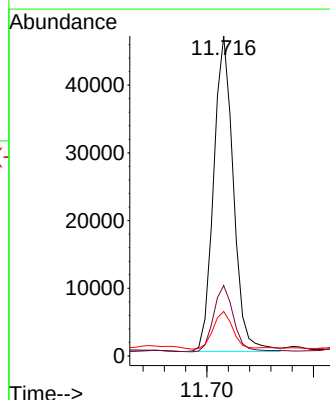
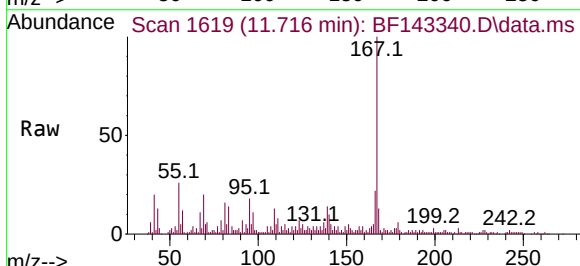
RT: 11.716 min Scan# 1619

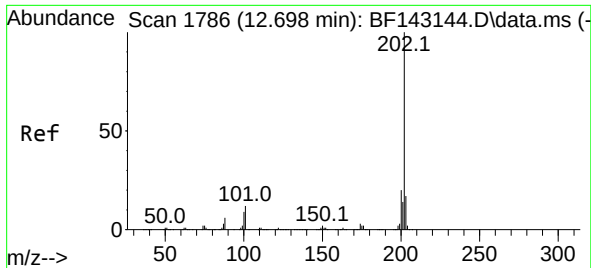
Delta R.T. 0.006 min

Lab File: BF143340.D

Acq: 06 Aug 2025 20:07

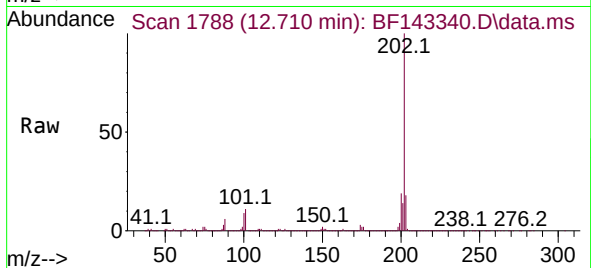
Tgt Ion:167 Resp: 60180
 Ion Ratio Lower Upper
 167 100
 166 22.0 17.0 25.6
 139 13.9 10.0 15.0





#75
Fluoranthene
Concen: 117.870 ng
RT: 12.710 min Scan# 11
Delta R.T. 0.012 min
Lab File: BF143340.D
Acq: 06 Aug 2025 20:07

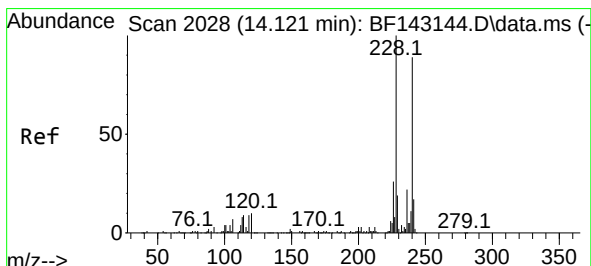
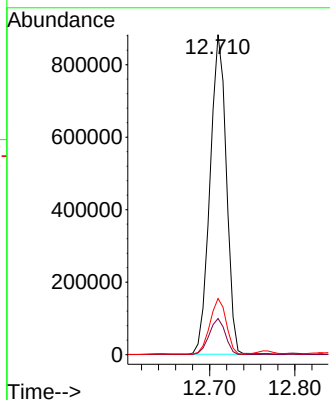
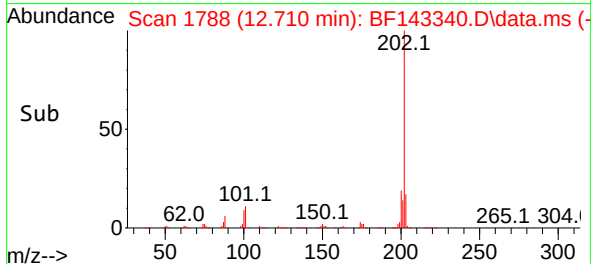
Instrument :
BNA_F
ClientSampleId :
254



Tgt Ion:202 Resp: 117668
Ion Ratio Lower Upper
202 100
101 11.3 0.0 31.7
203 17.6 0.0 37.4

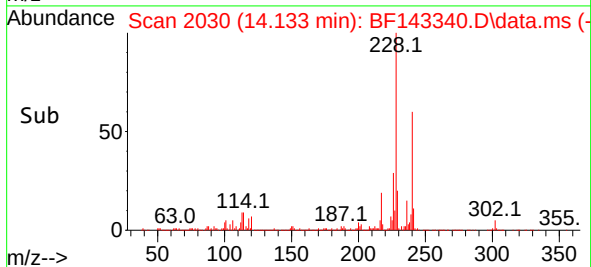
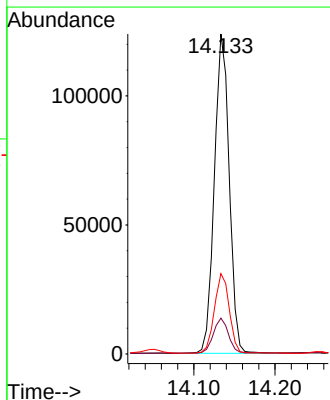
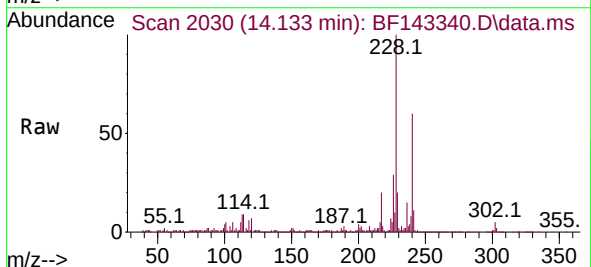
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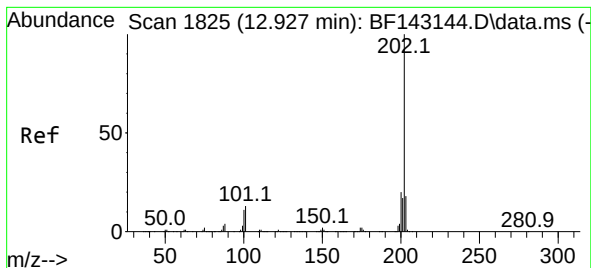
Reviewed By :Rahul Chavli 08/07/2025
Supervised By :Jagrut Upadhyay 08/07/2025



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.133 min Scan# 2030
Delta R.T. 0.012 min
Lab File: BF143340.D
Acq: 06 Aug 2025 20:07

Tgt Ion:240 Resp: 157784
Ion Ratio Lower Upper
240 100
120 11.2 9.4 14.2
236 25.1 20.2 30.4





#78

Pyrene

Concen: 77.914 ng

RT: 12.939 min Scan# 1825

Delta R.T. 0.012 min

Lab File: BF143340.D

Acq: 06 Aug 2025 20:07

Instrument :

BNA_F

ClientSampleId :

254

Tgt Ion:202 Resp: 104918

Ion Ratio Lower Upper

202 100

200 20.1 15.7 23.5

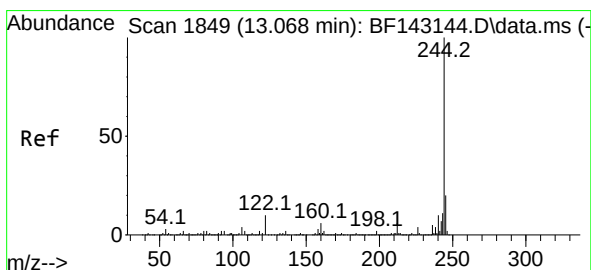
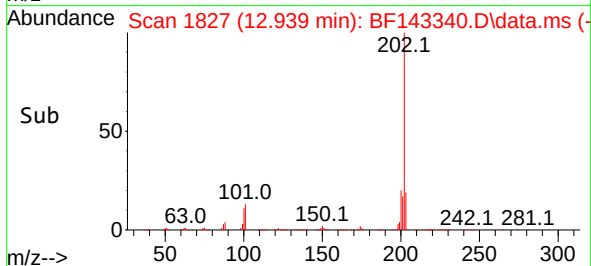
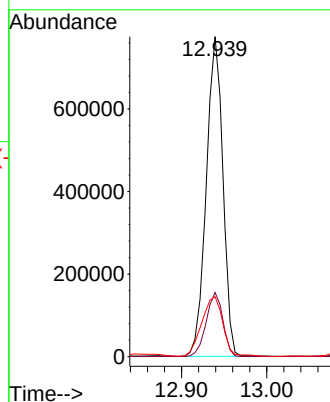
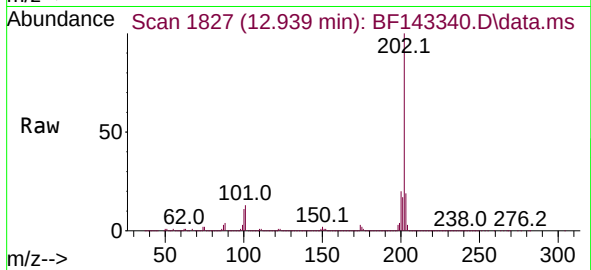
203 18.8 14.2 21.2

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Reviewed By :Rahul Chavli 08/07/2025

Supervised By :Jagrut Upadhyay 08/07/2025



#79

Terphenyl-d14

Concen: 5.661 ng

RT: 13.069 min Scan# 1849

Delta R.T. 0.000 min

Lab File: BF143340.D

Acq: 06 Aug 2025 20:07

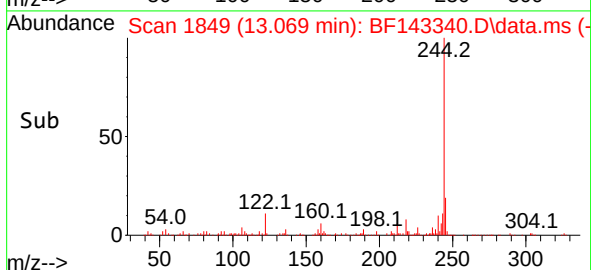
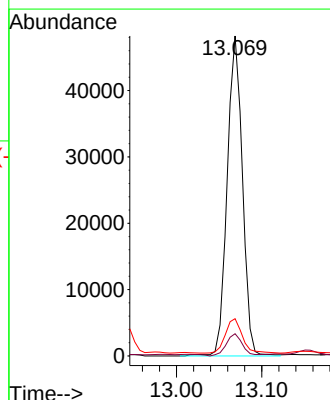
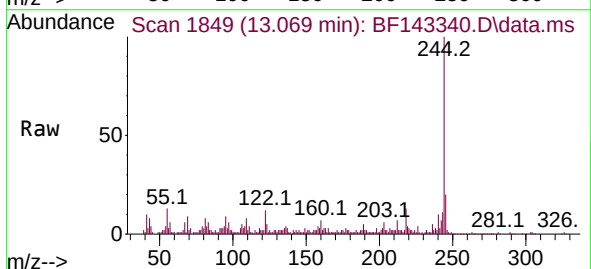
Tgt Ion:244 Resp: 60024

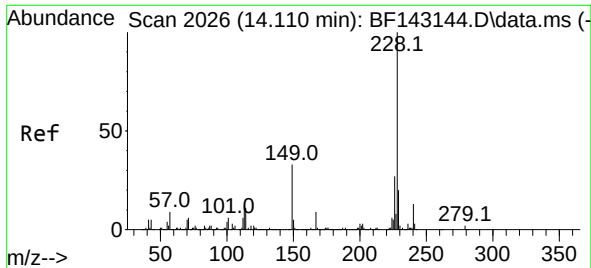
Ion Ratio Lower Upper

244 100

212 6.9 5.2 7.8

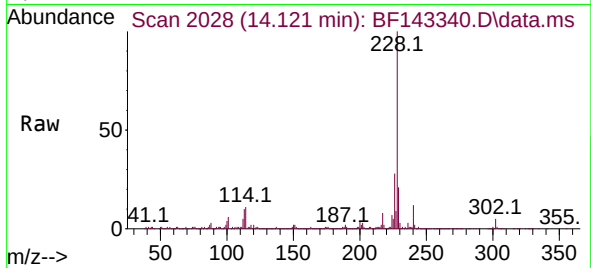
122 11.7 8.2 12.2





#81
Benzo(a)anthracene
Concen: 43.675 ng
RT: 14.121 min Scan# 2026
Delta R.T. 0.012 min
Lab File: BF143340.D
Acq: 06 Aug 2025 20:07

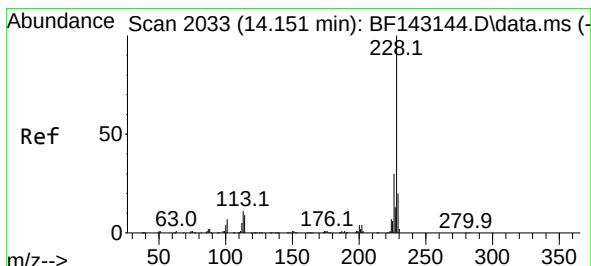
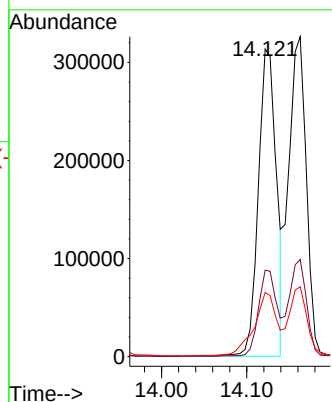
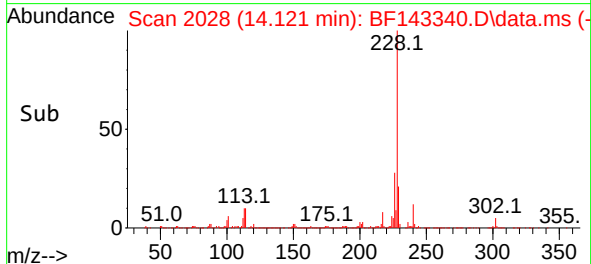
Instrument :
BNA_F
ClientSampleId :
254



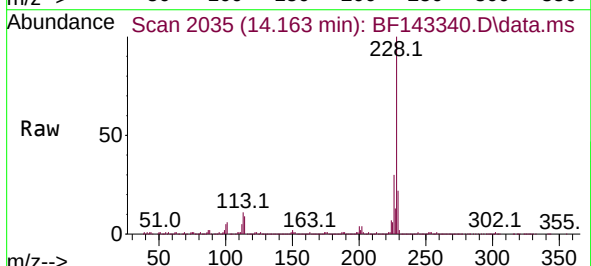
Tgt Ion:228 Resp: 46137
Ion Ratio Lower Upper
228 100
226 28.1 21.7 32.5
229 20.8 15.8 23.6

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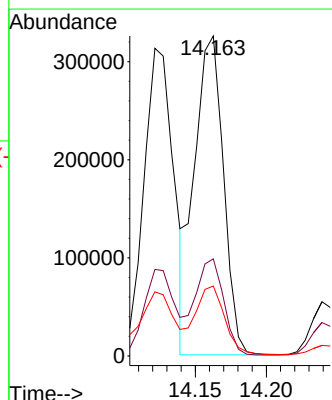
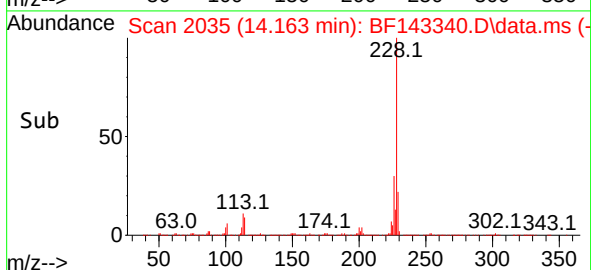
Reviewed By :Rahul Chavli 08/07/2025
Supervised By :Jagrut Upadhyay 08/07/2025

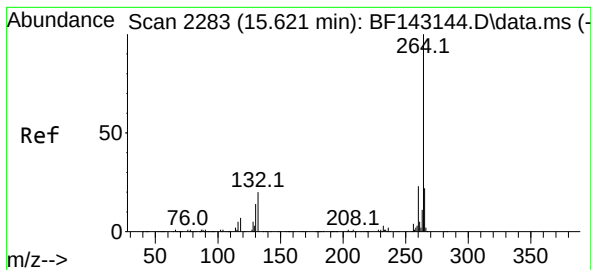


#83
Chrysene
Concen: 48.691 ng
RT: 14.163 min Scan# 2035
Delta R.T. 0.012 min
Lab File: BF143340.D
Acq: 06 Aug 2025 20:07



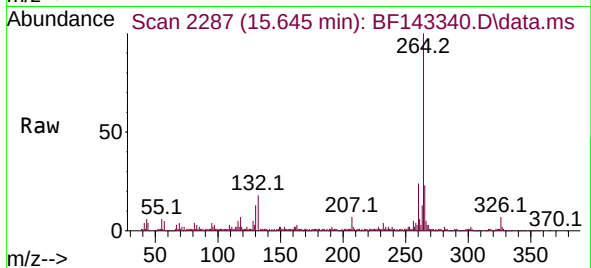
Tgt Ion:228 Resp: 462456
Ion Ratio Lower Upper
228 100
226 30.3 23.8 35.8
229 21.8 15.6 23.4





#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.645 min Scan# 21
 Delta R.T. 0.024 min
 Lab File: BF143340.D
 Acq: 06 Aug 2025 20:07

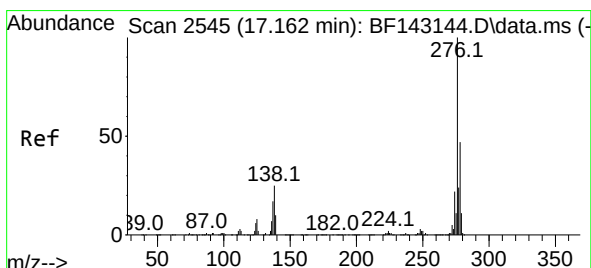
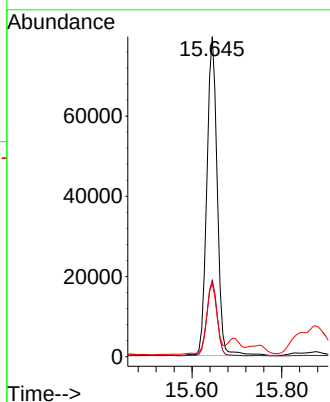
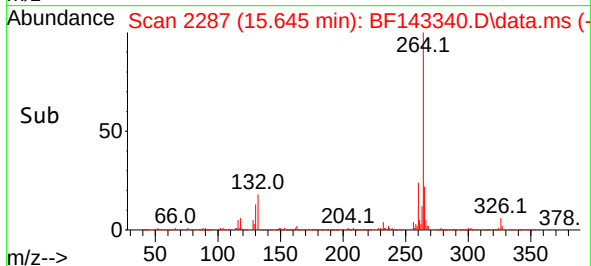
Instrument :
 BNA_F
 ClientSampleId :
 254



Tgt Ion:264 Resp: 127868
 Ion Ratio Lower Upper
 264 100
 260 23.8 18.5 27.7
 265 22.8 17.4 26.2

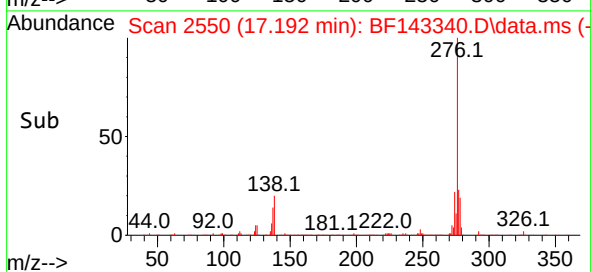
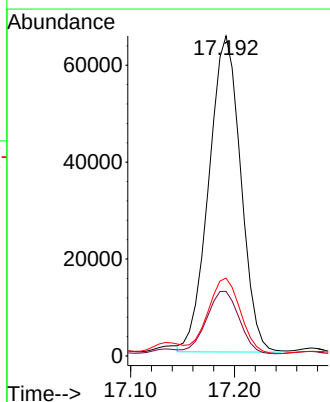
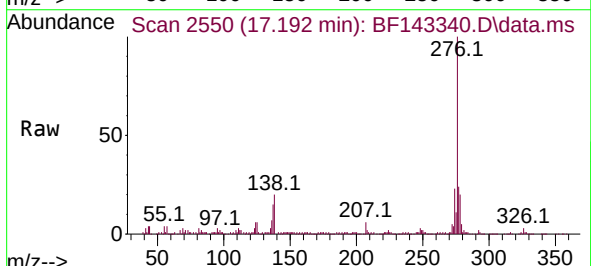
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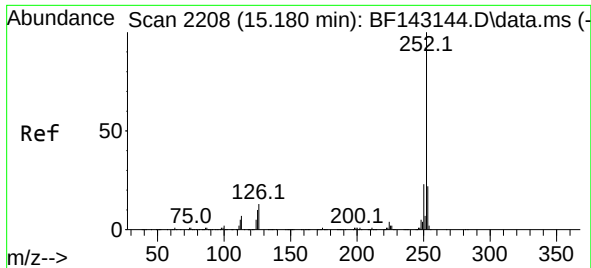
Reviewed By :Rahul Chavli 08/07/2025
 Supervised By :Jagrut Upadhyay 08/07/2025



#87
 Indeno(1,2,3-cd)pyrene
 Concen: 15.438 ng m
 RT: 17.192 min Scan# 2550
 Delta R.T. 0.030 min
 Lab File: BF143340.D
 Acq: 06 Aug 2025 20:07

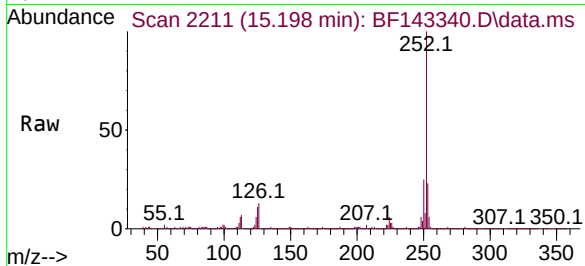
Tgt Ion:276 Resp: 139199
 Ion Ratio Lower Upper
 276 100
 138 4.0 21.8 32.6#
 277 4.2 20.0 30.0#





#88
Benzo(b)fluoranthene
Concen: 60.400 ng m
RT: 15.198 min Scan# 2111
Delta R.T. 0.018 min
Lab File: BF143340.D
Acq: 06 Aug 2025 20:07

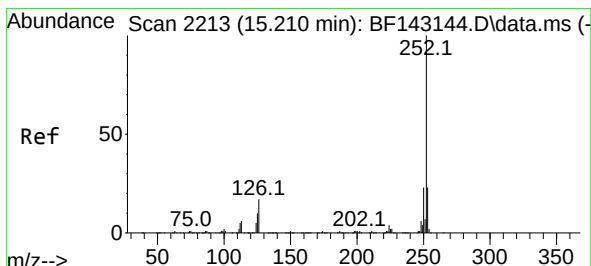
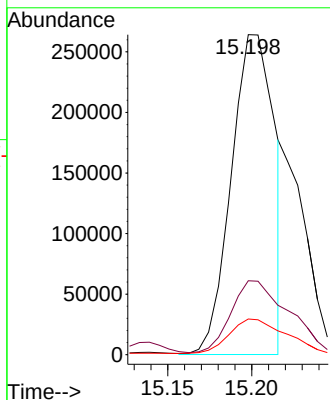
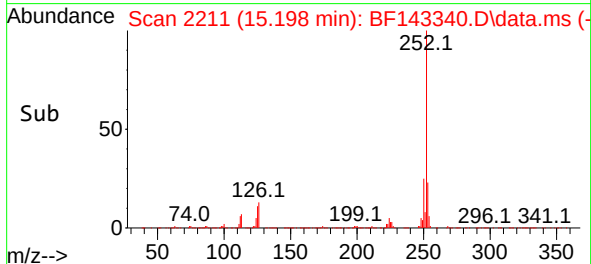
Instrument :
BNA_F
ClientSampleId :
254



Tgt Ion:252 Resp: 471820
Ion Ratio Lower Upper
252 100
253 23.1 17.5 26.3
125 11.2 8.0 12.0

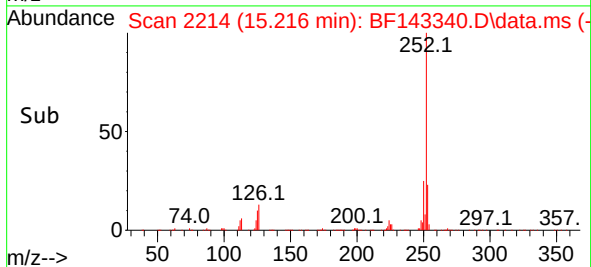
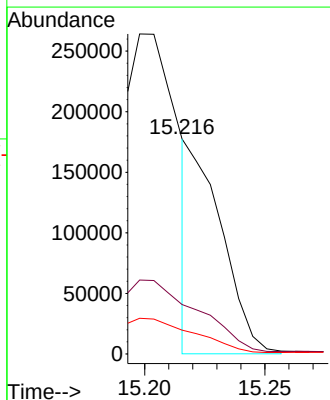
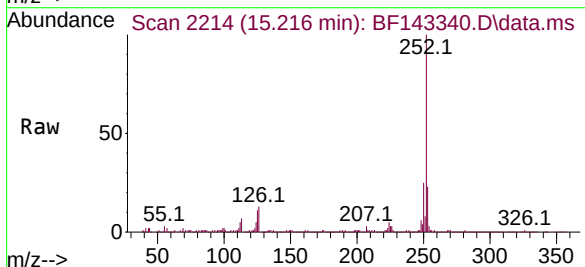
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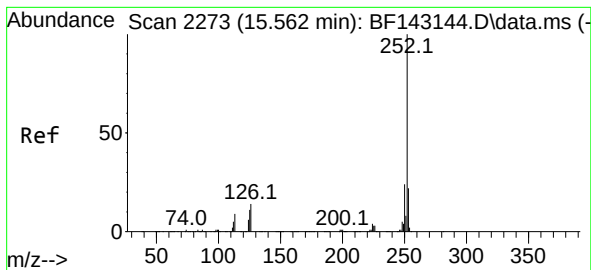
Reviewed By :Rahul Chavli 08/07/2025
Supervised By :Jagrut Upadhyay 08/07/2025



#89
Benzo(k)fluoranthene
Concen: 23.337 ng m
RT: 15.216 min Scan# 2214
Delta R.T. 0.006 min
Lab File: BF143340.D
Acq: 06 Aug 2025 20:07

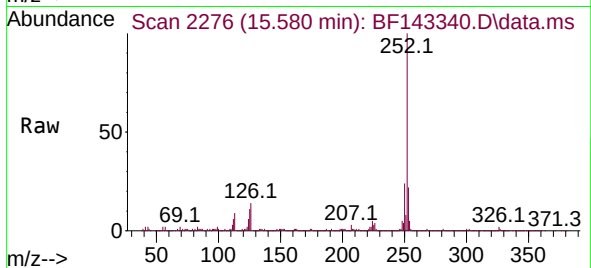
Tgt Ion:252 Resp: 162673
Ion Ratio Lower Upper
252 100
253 23.0 17.8 26.6
125 11.1 8.1 12.1





#90
Benzo(a)pyrene
Concen: 44.124 ng
RT: 15.580 min Scan# 2154
Delta R.T. 0.018 min
Lab File: BF143340.D
Acq: 06 Aug 2025 20:07

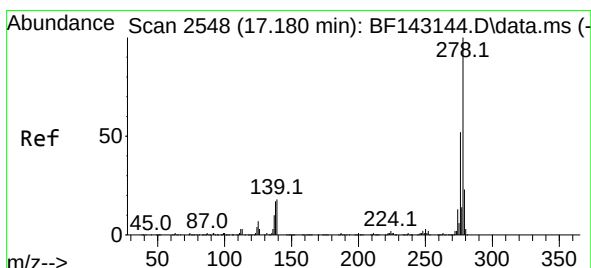
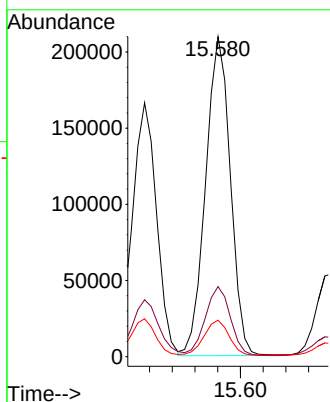
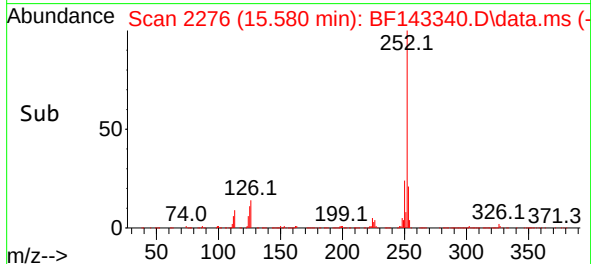
Instrument :
BNA_F
ClientSampleId :
254



Tgt Ion:252 Resp: 31756
Ion Ratio Lower Upper
252 100
253 21.9 17.3 25.9
125 11.4 8.6 13.0

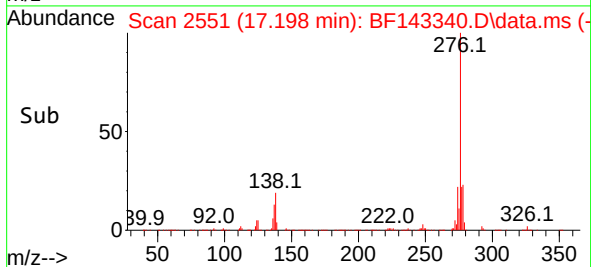
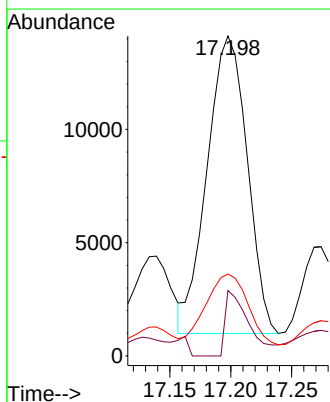
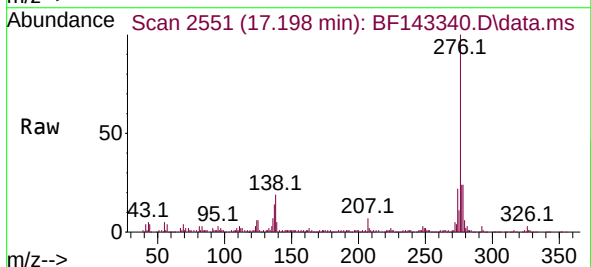
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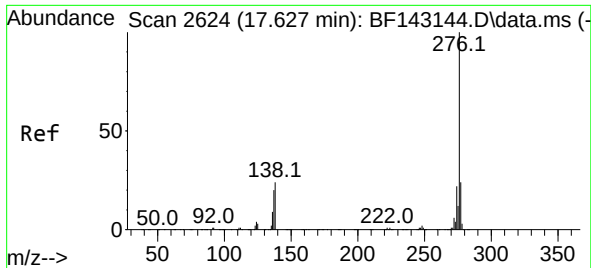
Reviewed By :Rahul Chavli 08/07/2025
Supervised By :Jagrut Upadhyay 08/07/2025



#91
Dibenzo(a,h)anthracene
Concen: 4.094 ng
RT: 17.198 min Scan# 2551
Delta R.T. 0.018 min
Lab File: BF143340.D
Acq: 06 Aug 2025 20:07

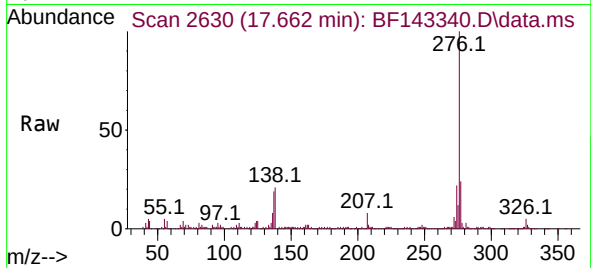
Tgt Ion:278 Resp: 30048
Ion Ratio Lower Upper
278 100
139 20.4 14.1 21.1
279 25.6 18.6 28.0





#92
Benzo(g,h,i)perylene
Concen: 19.090 ng
RT: 17.662 min Scan# 20
Delta R.T. 0.035 min
Lab File: BF143340.D
Acq: 06 Aug 2025 20:07

Instrument :
BNA_F
ClientSampleId :
254



Tgt Ion:276 Resp: 135518
Ion Ratio Lower Upper
276 100
277 23.8 19.1 28.7
138 21.5 18.9 28.3

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Reviewed By :Rahul Chavli 08/07/2025
Supervised By :Jagrut Upadhyay 08/07/2025

