

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060525\
 Data File : BF142637.D
 Acq On : 05 Jun 2025 16:38
 Operator : RC/JU
 Sample : Q2178-01DL2 200X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RT2929DL2

Quant Time: Jun 05 16:59:39 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

Manual Integrations APPROVED

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

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.892	152	98238	20.000	ng	-0.01
21) Naphthalene-d8	8.181	136	339258	20.000	ng	0.00
39) Acenaphthene-d10	9.933	164	143942	20.000	ng	-0.01
64) Phenanthrene-d10	11.422	188	204032	20.000	ng	-0.01
76) Chrysene-d12	14.068	240	234491	20.000	ng	0.00
86) Perylene-d12	15.557	264	251194	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	1109	0.190	ng	0.00
7) Phenol-d6	6.522	99	1620	0.231	ng	-0.01
23) Nitrobenzene-d5	7.457	82	803	0.129	ng	-0.02
42) 2,4,6-Tribromophenol	10.722	330	150	0.094	ng	-0.02
45) 2-Fluorobiphenyl	9.251	172	2699	0.252	ng	-0.02
79) Terphenyl-d14	13.004	244	3304	0.193	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.198	128	282392	16.905	ng	99
37) 2-Methylnaphthalene	8.892	142	40194	3.825	ng	98
52) Acenaphthene	9.963	154	112241	13.194	ng	99
55) Dibenzofuran	10.139	168	88190	7.204	ng	96
58) Fluorene	10.480	166	72128	7.626	ng	99
71) Phenanthrene	11.445	178	722027	66.218	ng	100
72) Anthracene	11.498	178	205926	18.505	ng	99
73) Carbazole	11.651	167	94691	9.953	ng	99
75) Fluoranthene	12.639	202	794806	78.010	ng	98
78) Pyrene	12.869	202	714645	32.670	ng	98
81) Benzo(a)anthracene	14.057	228	461324	29.462	ng	99
83) Chrysene	14.092	228	337082	23.958	ng	97
87) Indeno(1,2,3-cd)pyrene	17.062	276	136129	7.219	ng	95
88) Benzo(b)fluoranthene	15.121	252	422065m	28.390	ng	
89) Benzo(k)fluoranthene	15.133	252	202812m	14.565	ng	
90) Benzo(a)pyrene	15.492	252	321613	22.950	ng	96
91) Dibenzo(a,h)anthracene	17.074	278	34531m	2.258	ng	
92) Benzo(g,h,i)perylene	17.521	276	115835	7.572	ng	97

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

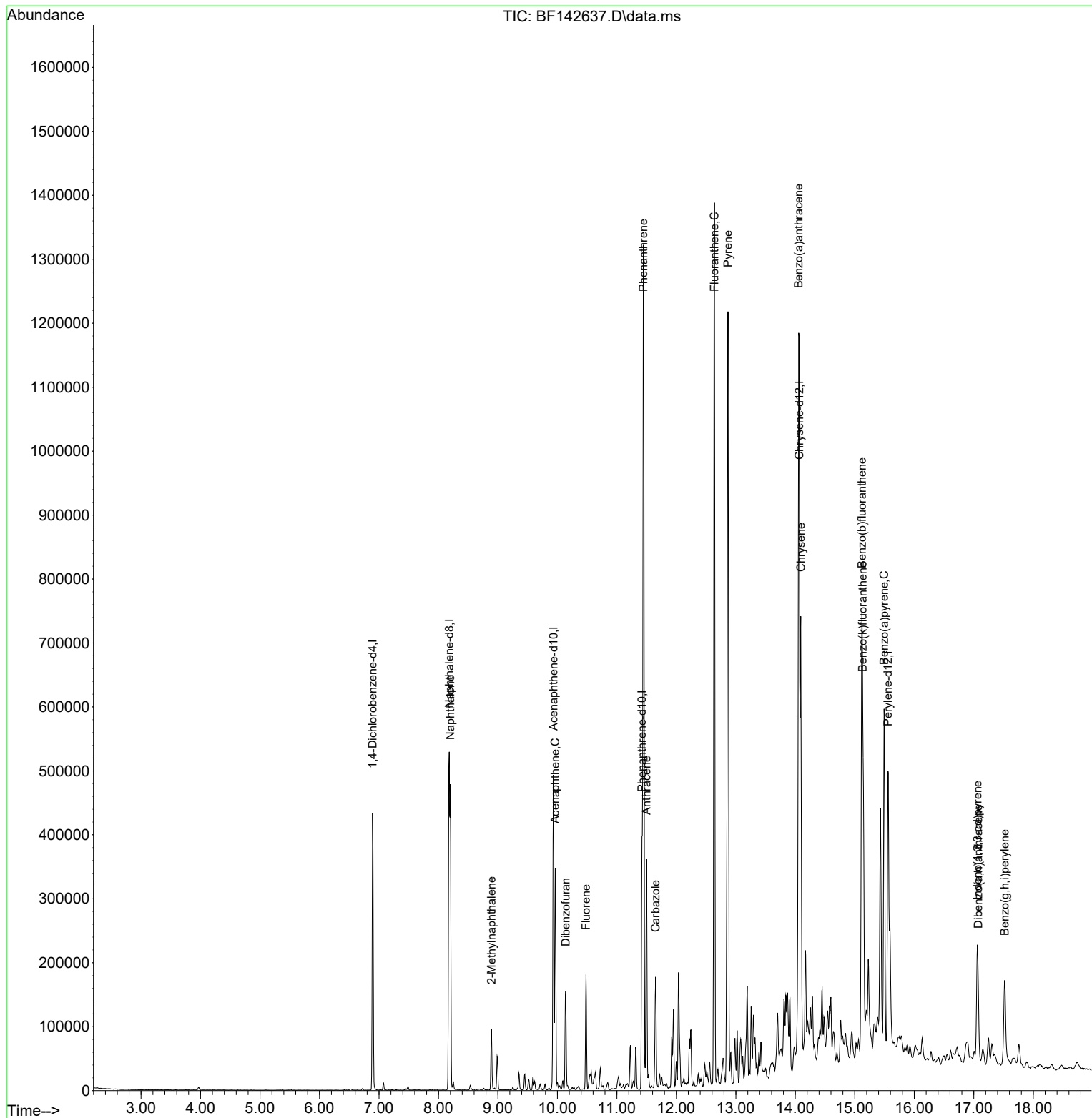
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060525\
Data File : BF142637.D
Acq On : 05 Jun 2025 16:38
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ALS Vial : 14 Sample Multiplier: 1

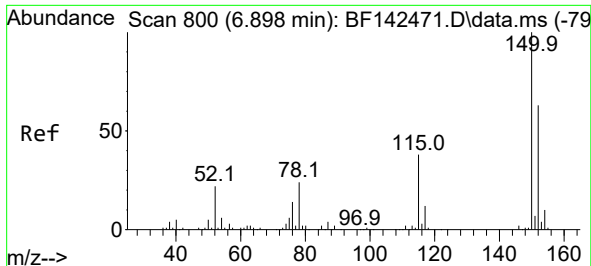
Instrument :
BNA_F
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RT2929DL2

Quant Time: Jun 05 16:59:39 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
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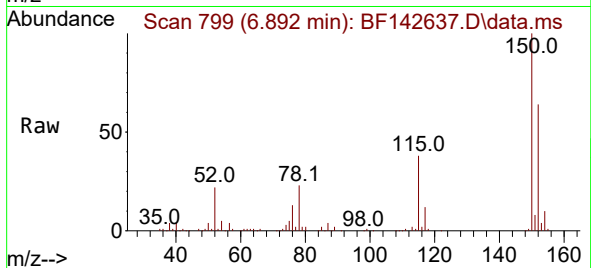
Reviewed By :Rahul Chavli 06/06/2025
Supervised By :Jagrut Upadhyay 06/06/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.892 min Scan# 79
Delta R.T. -0.012 min
Lab File: BF142637.D
Acq: 05 Jun 2025 16:38

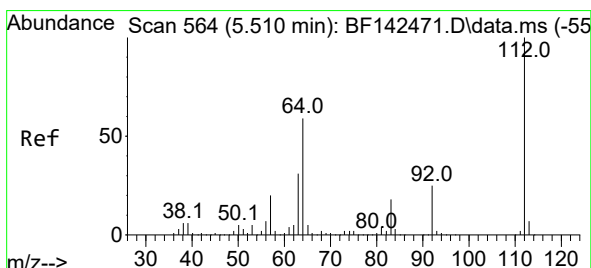
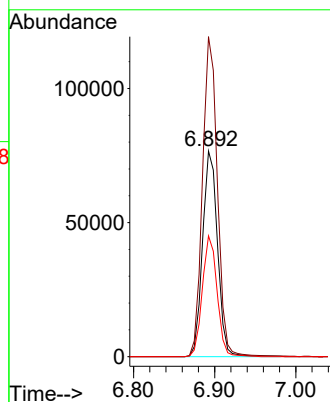
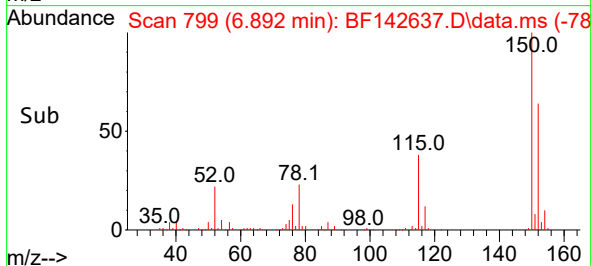
Instrument :
BNA_F
ClientSampleId :
RT2929DL2



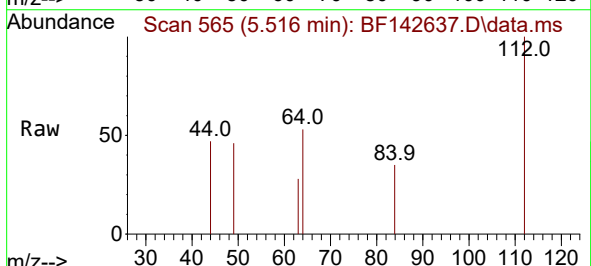
Tgt Ion:152 Resp: 98238
Ion Ratio Lower Upper
152 100
150 155.6 128.2 192.4
115 58.7 48.3 72.5

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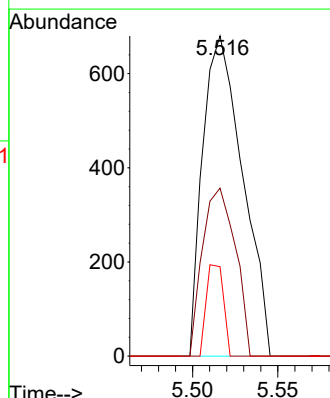
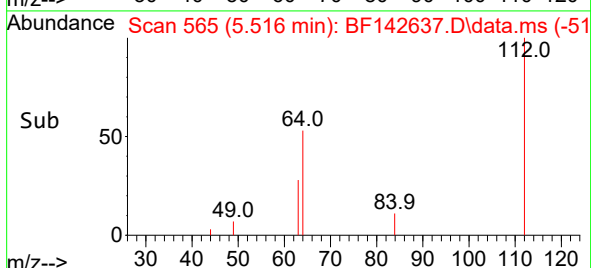
Reviewed By :Rahul Chavli 06/06/2025
Supervised By :Jagrut Upadhyay 06/06/2025

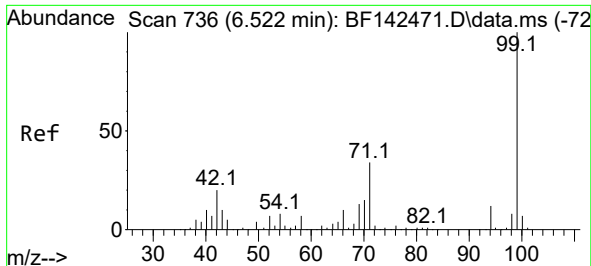


#5
2-Fluorophenol
Concen: 0.190 ng
RT: 5.516 min Scan# 565
Delta R.T. 0.000 min
Lab File: BF142637.D
Acq: 05 Jun 2025 16:38



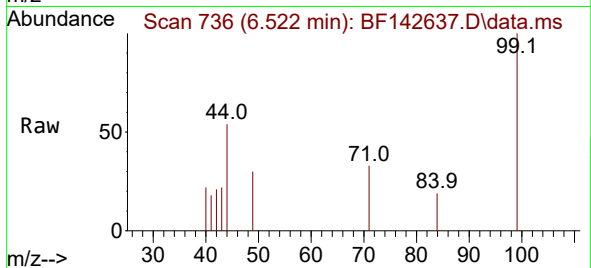
Tgt Ion:112 Resp: 1109
Ion Ratio Lower Upper
112 100
64 52.5 47.5 71.3
63 27.9 24.9 37.3





#7
Phenol-d6
Concen: 0.231 ng
RT: 6.522 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF142637.D
Acq: 05 Jun 2025 16:38

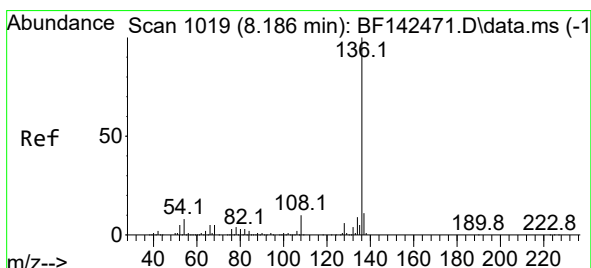
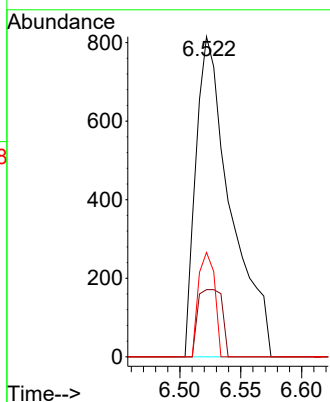
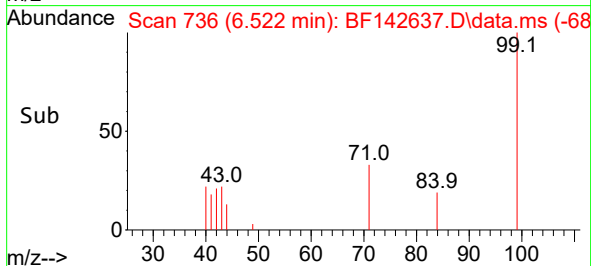
Instrument :
BNA_F
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RT2929DL2



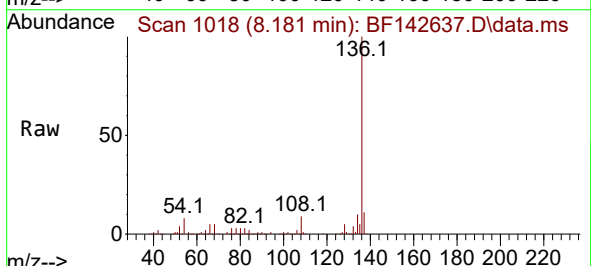
Tgt Ion: 99 Resp: 1620
Ion Ratio Lower Upper
99 100
42 21.0 16.2 24.2
71 32.6 27.3 40.9

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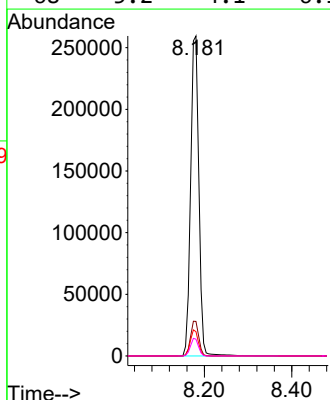
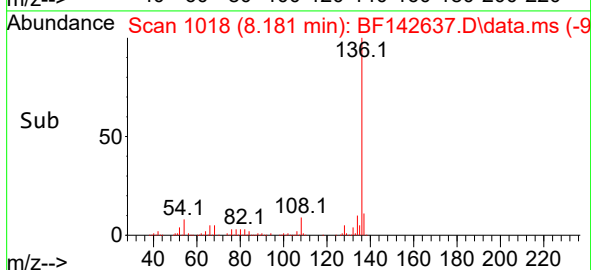
Reviewed By :Rahul Chavli 06/06/2025
Supervised By :Jagrut Upadhyay 06/06/2025

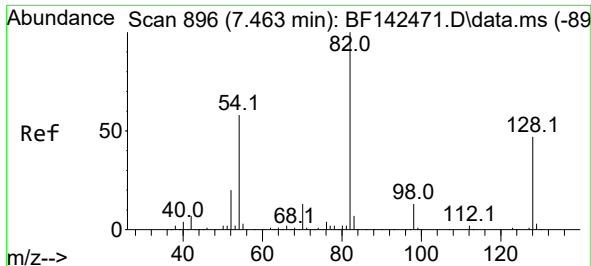


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142637.D
Acq: 05 Jun 2025 16:38



Tgt Ion:136 Resp: 339258
Ion Ratio Lower Upper
136 100
137 10.8 8.6 13.0
54 7.6 6.6 10.0
68 5.2 4.1 6.1





#23

Nitrobenzene-d5

Concen: 0.129 ng

RT: 7.457 min Scan# 896

Delta R.T. -0.018 min

Lab File: BF142637.D

Acq: 05 Jun 2025 16:38

Instrument :

BNA_F

ClientSampleId :

RT2929DL2

Tgt Ion: 82 Resp: 800

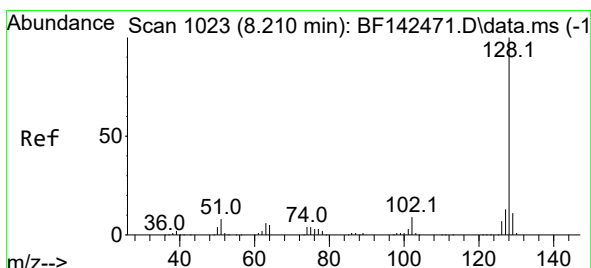
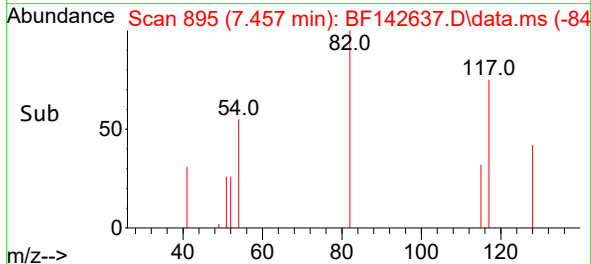
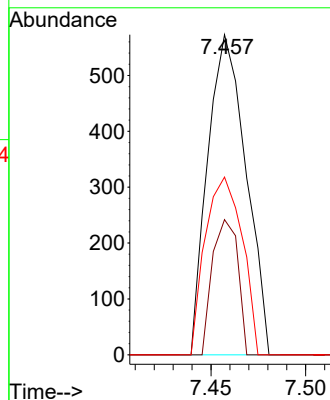
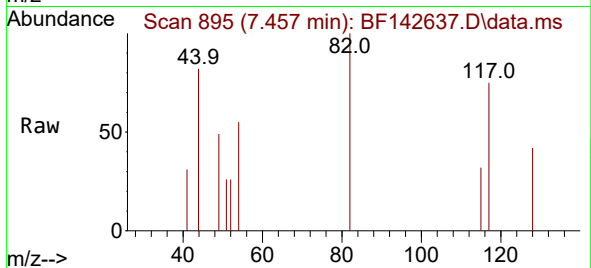
Ion	Ratio	Lower	Upper
82	100		
128	42.2	37.4	56.2
54	55.5	46.6	70.0

Manual Integrations

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Supervised By :Jagrut Upadhyay 06/06/2025



#31

Naphthalene

Concen: 16.905 ng

RT: 8.198 min Scan# 1021

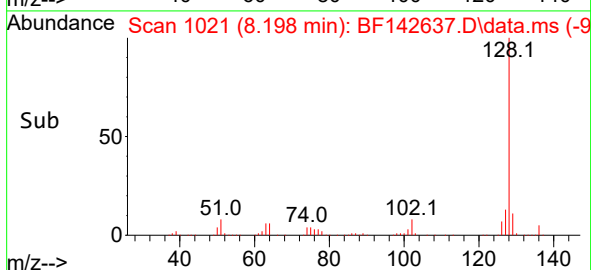
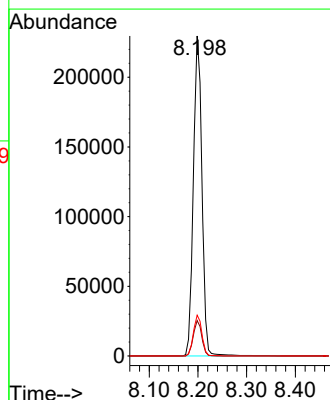
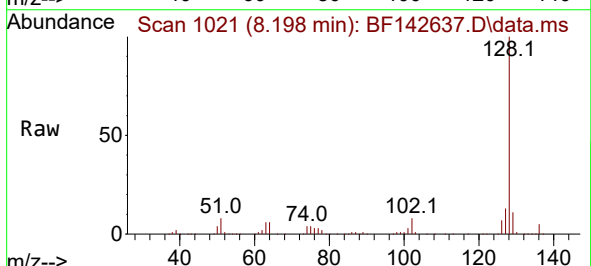
Delta R.T. -0.012 min

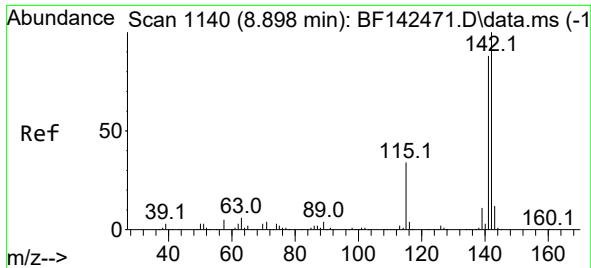
Lab File: BF142637.D

Acq: 05 Jun 2025 16:38

Tgt Ion:128 Resp: 282392

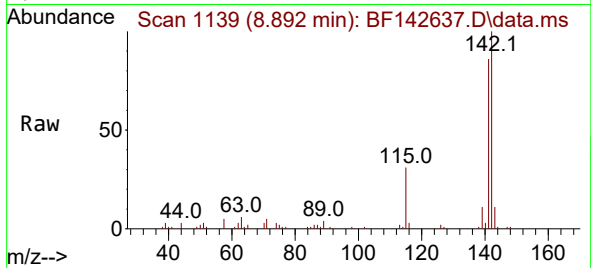
Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.9	13.3
127	12.8	10.5	15.7





#37
2-Methylnaphthalene
Concen: 3.825 ng
RT: 8.892 min Scan# 1139
Delta R.T. -0.006 min
Lab File: BF142637.D
Acq: 05 Jun 2025 16:38

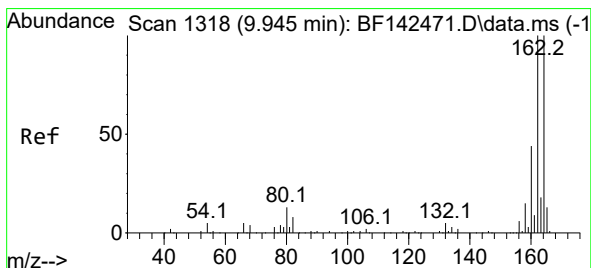
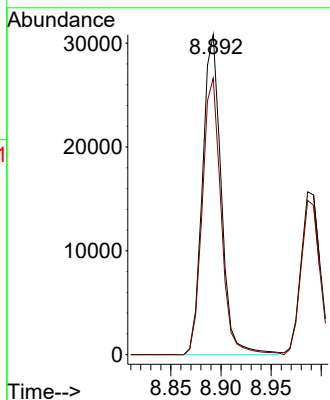
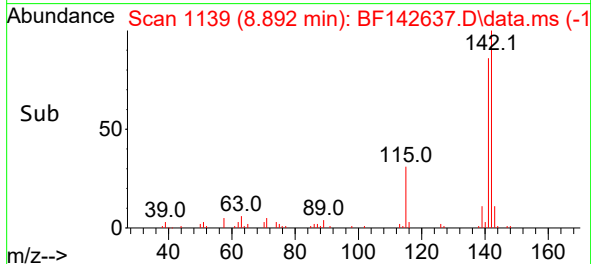
Instrument :
BNA_F
ClientSampleId :
RT2929DL2



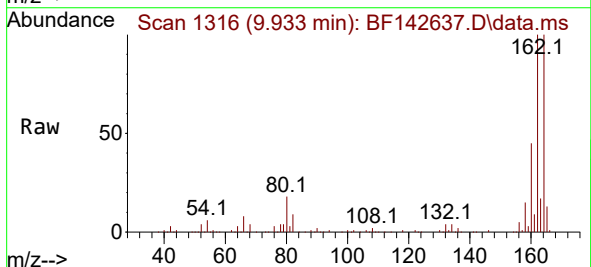
Tgt Ion:142 Resp: 40194
Ion Ratio Lower Upper
142 100
141 86.5 70.7 106.1

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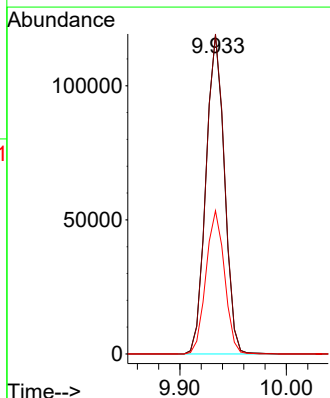
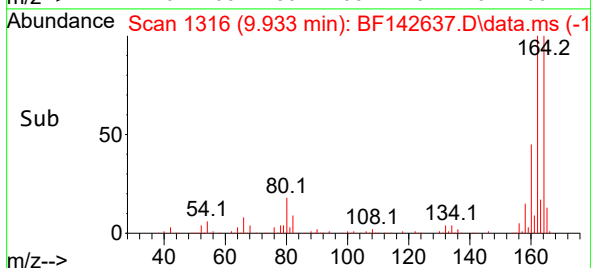
Reviewed By :Rahul Chavli 06/06/2025
Supervised By :Jagrut Upadhyay 06/06/2025

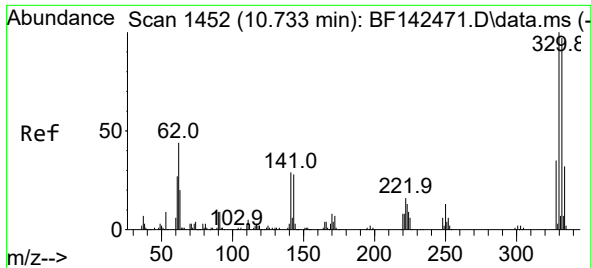


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.933 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142637.D
Acq: 05 Jun 2025 16:38



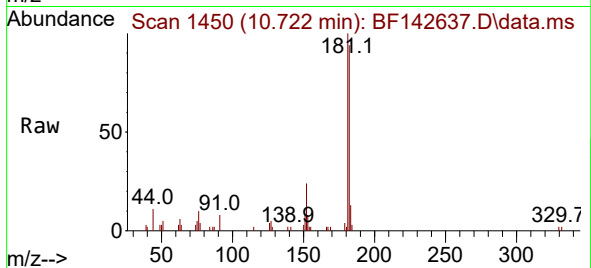
Tgt Ion:164 Resp: 143942
Ion Ratio Lower Upper
164 100
162 100.3 80.2 120.4
160 44.9 35.6 53.4





#42
2,4,6-Tribromophenol
Concen: 0.094 ng
RT: 10.722 min Scan# 1450
Delta R.T. -0.018 min
Lab File: BF142637.D
Acq: 05 Jun 2025 16:38

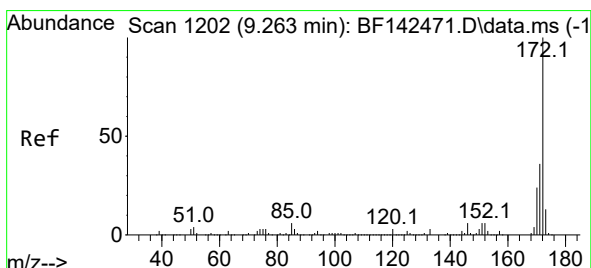
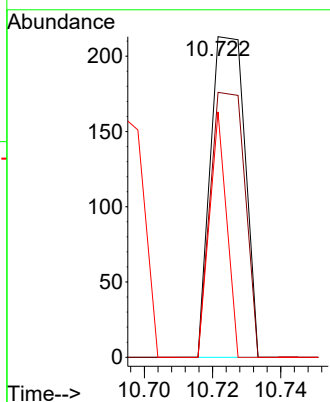
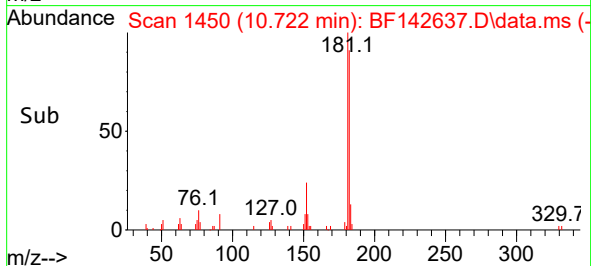
Instrument :
BNA_F
ClientSampleId :
RT2929DL2



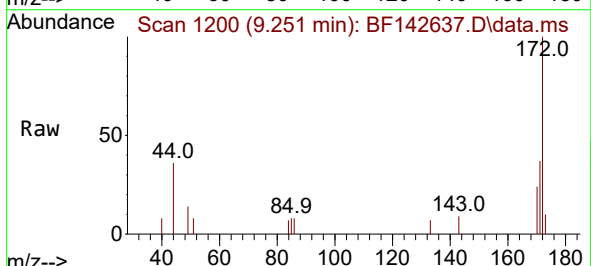
Tgt Ion: 330 Resp: 150
Ion Ratio Lower Upper
330 100
332 82.0 77.6 116.4
141 38.0 24.6 36.8

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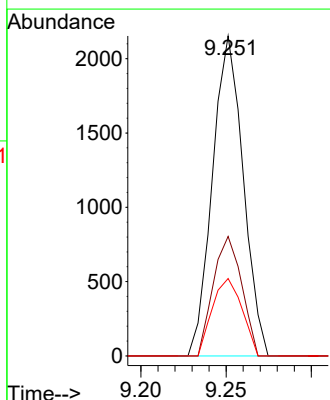
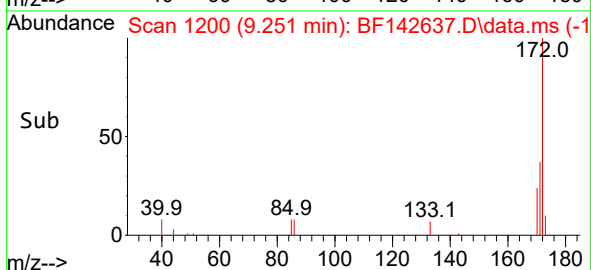
Reviewed By :Rahul Chavli 06/06/2025
Supervised By :Jagrut Upadhyay 06/06/2025

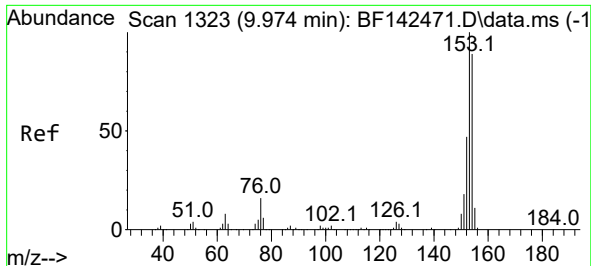


#45
2-Fluorobiphenyl
Concen: 0.252 ng
RT: 9.251 min Scan# 1200
Delta R.T. -0.018 min
Lab File: BF142637.D
Acq: 05 Jun 2025 16:38



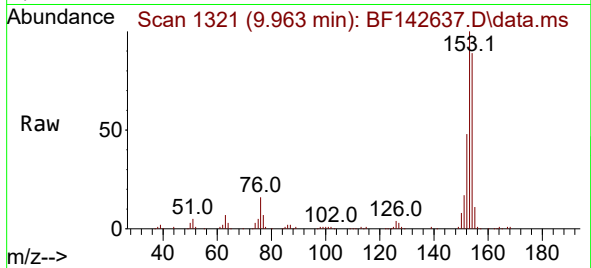
Tgt Ion: 172 Resp: 2699
Ion Ratio Lower Upper
172 100
171 37.3 28.6 42.8
170 24.2 18.9 28.3





#52
Acenaphthene
Concen: 13.194 ng
RT: 9.963 min Scan# 11
Delta R.T. -0.017 min
Lab File: BF142637.D
Acq: 05 Jun 2025 16:38

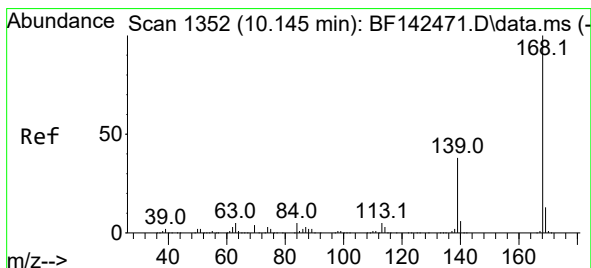
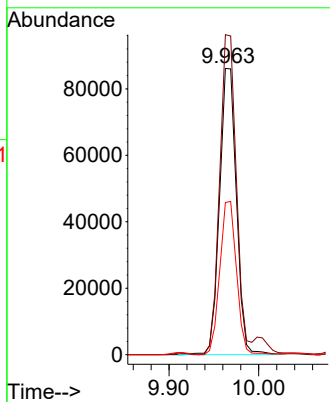
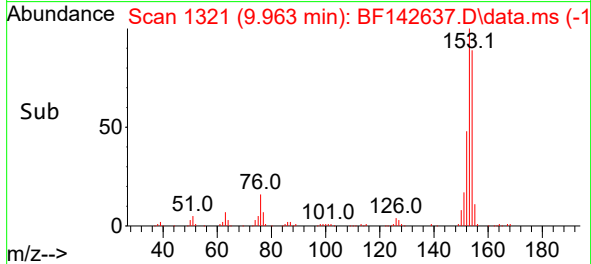
Instrument :
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ClientSampleId :
RT2929DL2



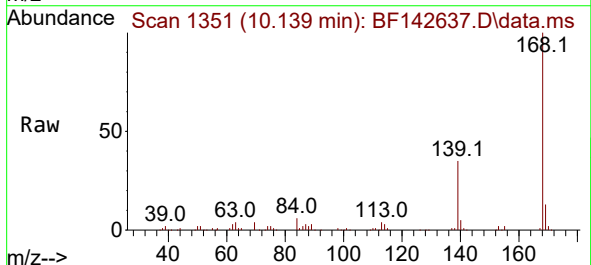
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Ion Ratio Lower Upper
154 100
153 111.8 90.0 135.0
152 53.2 42.6 64.0

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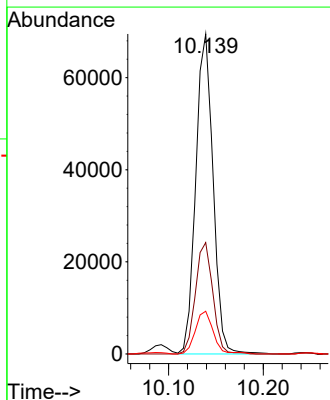
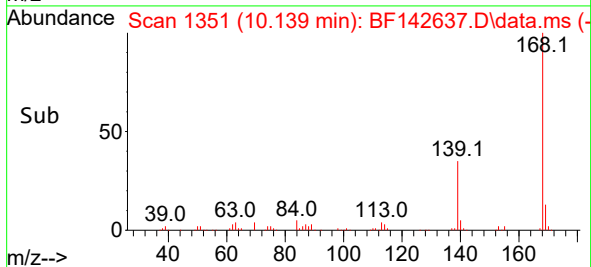
Reviewed By :Rahul Chavli 06/06/2025
Supervised By :Jagrut Upadhyay 06/06/2025

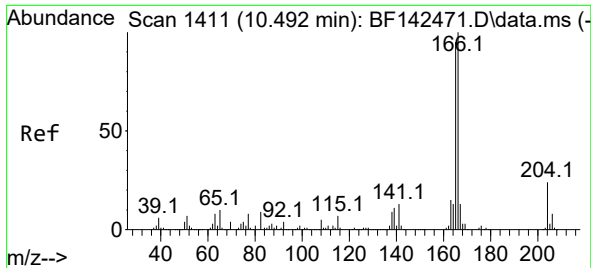


#55
Dibenzofuran
Concen: 7.204 ng
RT: 10.139 min Scan# 1351
Delta R.T. -0.012 min
Lab File: BF142637.D
Acq: 05 Jun 2025 16:38



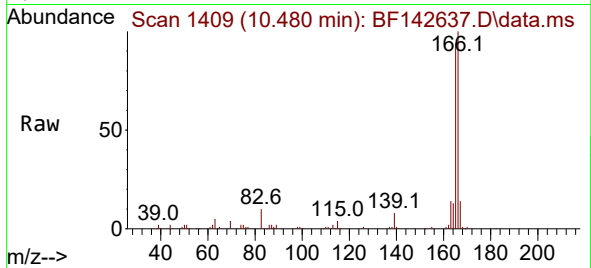
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Ion Ratio Lower Upper
168 100
139 34.8 30.2 45.2
169 13.4 10.7 16.1





#58
Fluorene
Concen: 7.626 ng
RT: 10.480 min Scan# 1411
Delta R.T. -0.018 min
Lab File: BF142637.D
Acq: 05 Jun 2025 16:38

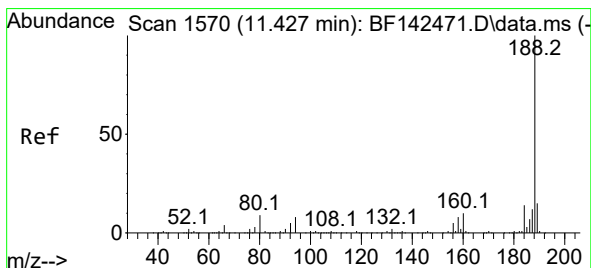
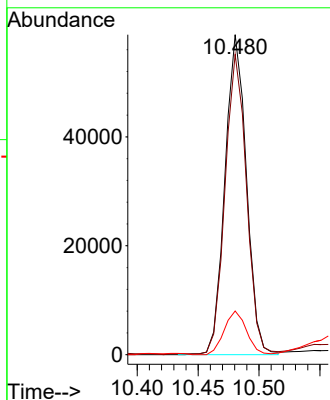
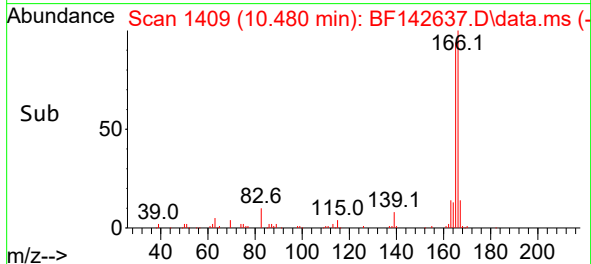
Instrument :
BNA_F
ClientSampleId :
RT2929DL2



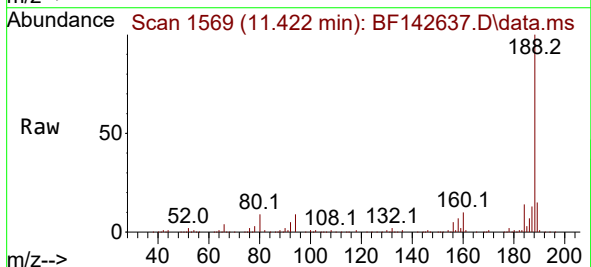
Tgt Ion:166 Resp: 72128
Ion Ratio Lower Upper
166 100
165 93.8 75.8 113.8
167 13.7 10.6 16.0

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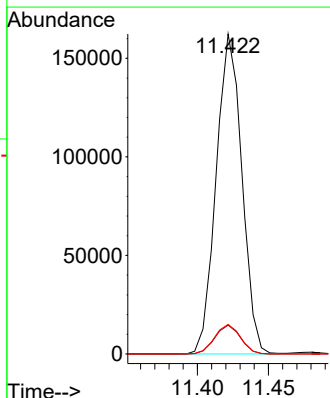
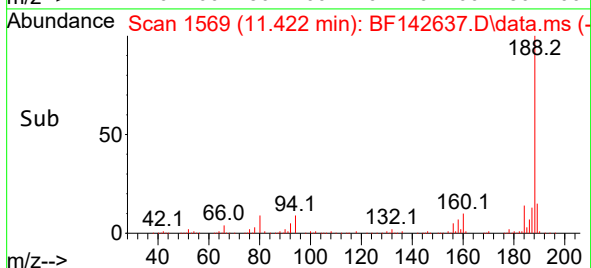
Reviewed By :Rahul Chavli 06/06/2025
Supervised By :Jagrut Upadhyay 06/06/2025

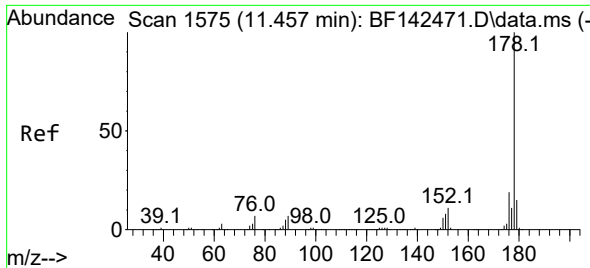


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1569
Delta R.T. -0.012 min
Lab File: BF142637.D
Acq: 05 Jun 2025 16:38



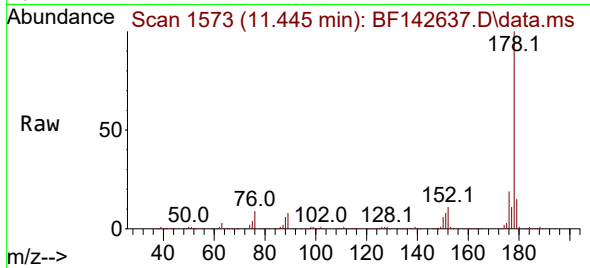
Tgt Ion:188 Resp: 204032
Ion Ratio Lower Upper
188 100
94 9.0 6.6 10.0
80 9.3 7.4 11.0





#71
Phenanthrene
Concen: 66.218 ng
RT: 11.445 min Scan# 1575
Delta R.T. -0.012 min
Lab File: BF142637.D
Acq: 05 Jun 2025 16:38

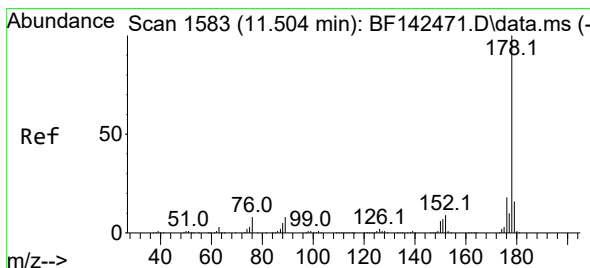
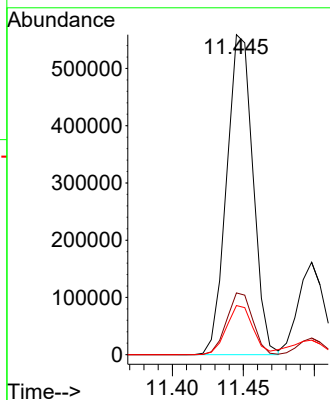
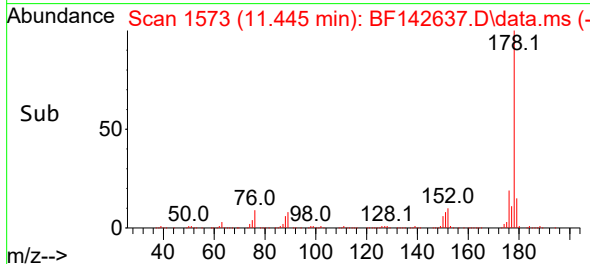
Instrument :
BNA_F
ClientSampleId :
RT2929DL2



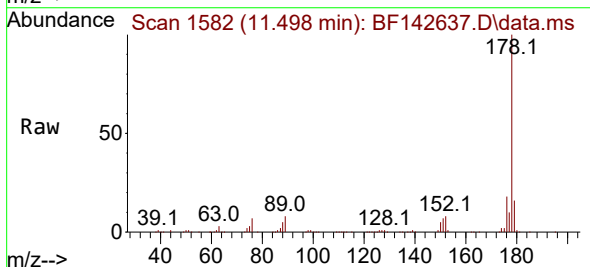
Tgt Ion:178 Resp: 72202
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.0
179 15.3 12.3 18.5

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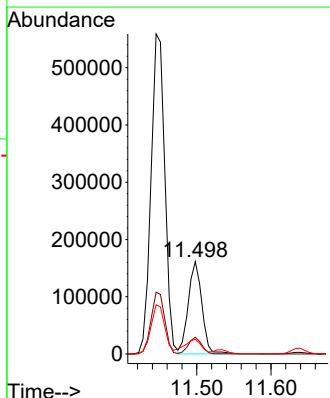
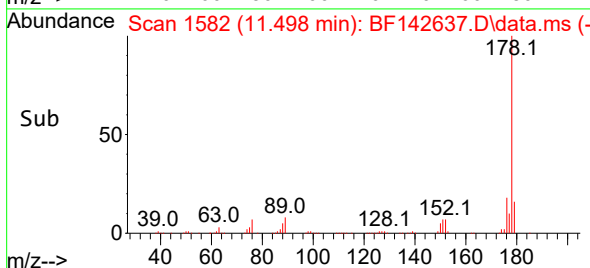
Reviewed By :Rahul Chavli 06/06/2025
Supervised By :Jagrut Upadhyay 06/06/2025

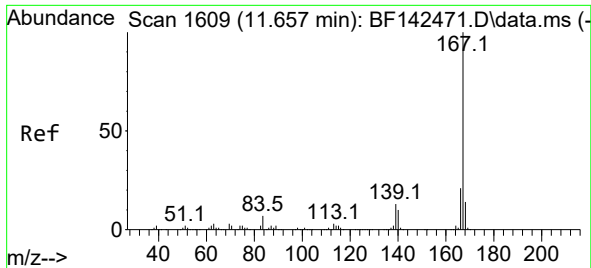


#72
Anthracene
Concen: 18.505 ng
RT: 11.498 min Scan# 1582
Delta R.T. -0.012 min
Lab File: BF142637.D
Acq: 05 Jun 2025 16:38



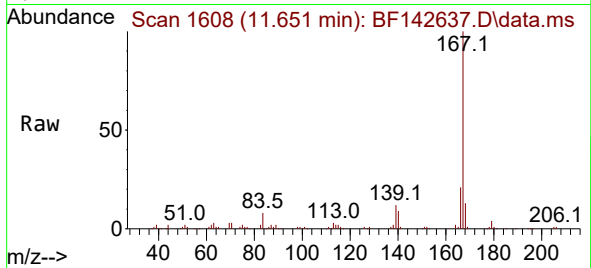
Tgt Ion:178 Resp: 205926
Ion Ratio Lower Upper
178 100
176 18.0 14.6 21.8
179 15.8 12.4 18.6





#73
 Carbazole
 Concen: 9.953 ng
 RT: 11.651 min Scan# 1608
 Delta R.T. -0.012 min
 Lab File: BF142637.D
 Acq: 05 Jun 2025 16:38

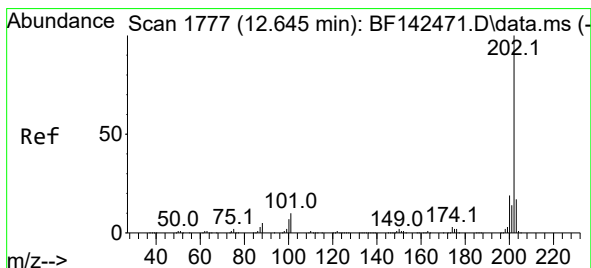
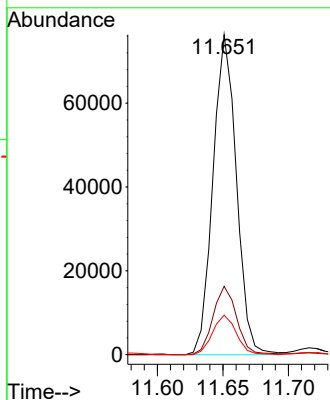
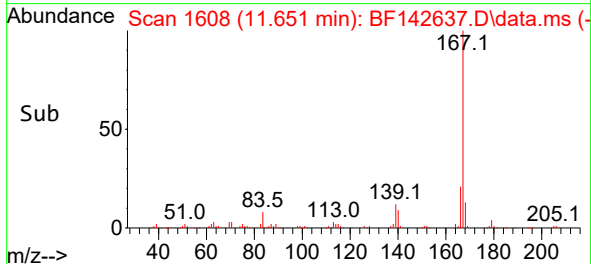
Instrument :
 BNA_F
 ClientSampleId :
 RT2929DL2



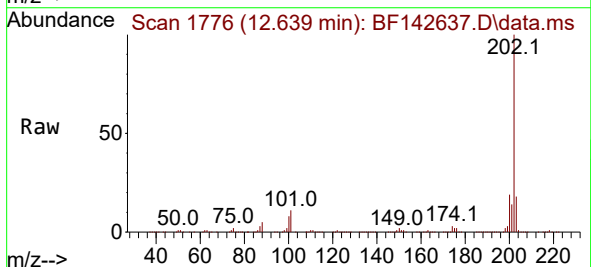
Tgt Ion:167 Resp: 9469
 Ion Ratio Lower Upper
 167 100
 166 21.4 16.9 25.3
 139 12.4 10.2 15.4

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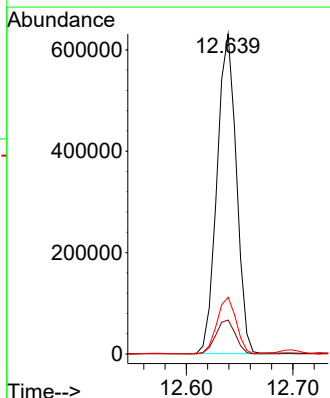
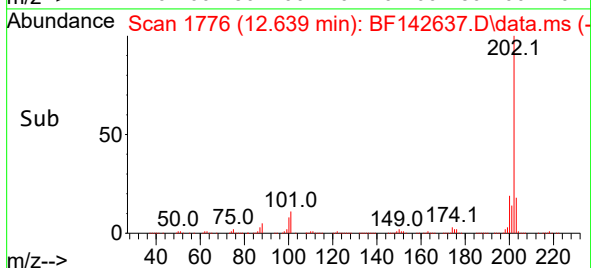
Reviewed By :Rahul Chavli 06/06/2025
 Supervised By :Jagrut Upadhyay 06/06/2025

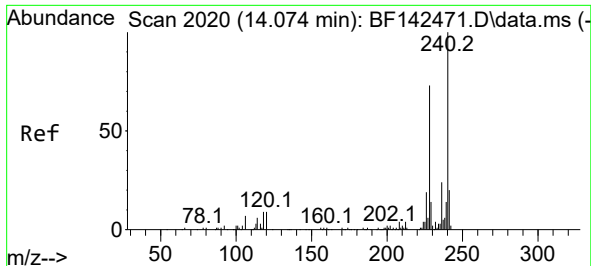


#75
 Fluoranthene
 Concen: 78.010 ng
 RT: 12.639 min Scan# 1776
 Delta R.T. -0.006 min
 Lab File: BF142637.D
 Acq: 05 Jun 2025 16:38



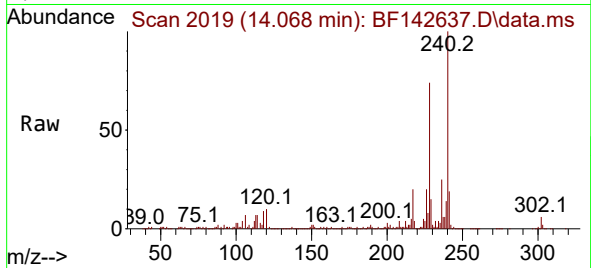
Tgt Ion:202 Resp: 794806
 Ion Ratio Lower Upper
 202 100
 101 10.6 0.0 29.6
 203 17.7 0.0 37.2





#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.068 min Scan# 2020
Delta R.T. -0.006 min
Lab File: BF142637.D
Acq: 05 Jun 2025 16:38

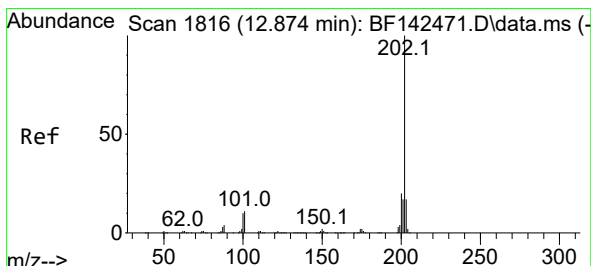
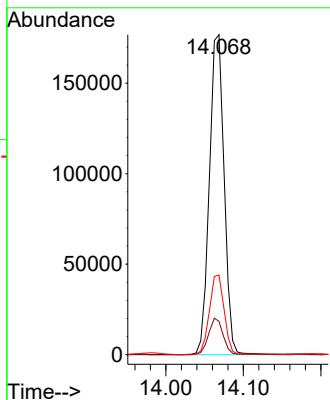
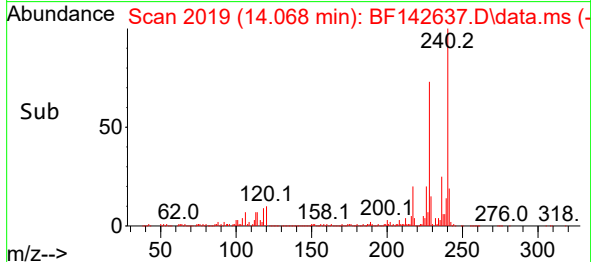
Instrument :
BNA_F
ClientSampleId :
RT2929DL2



Tgt Ion:240 Resp: 23449
Ion Ratio Lower Upper
240 100
120 10.4 7.5 11.3
236 24.9 19.6 29.4

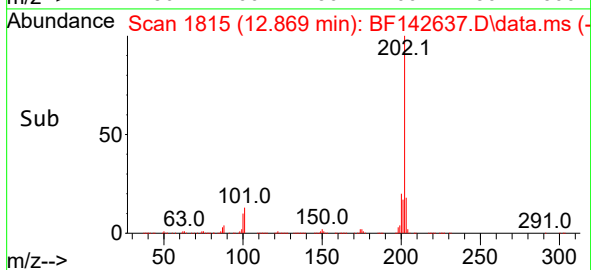
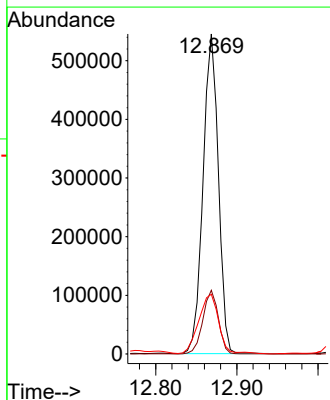
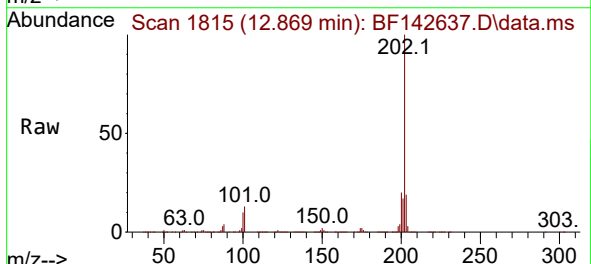
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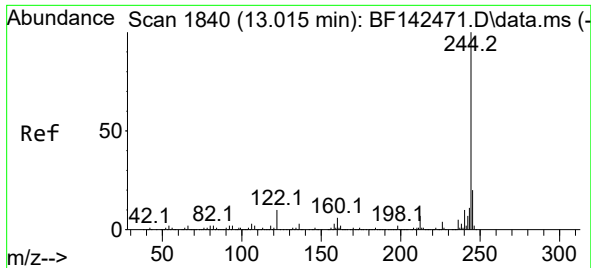
Reviewed By :Rahul Chavli 06/06/2025
Supervised By :Jagrut Upadhyay 06/06/2025



#78
Pyrene
Concen: 32.670 ng
RT: 12.869 min Scan# 1815
Delta R.T. -0.006 min
Lab File: BF142637.D
Acq: 05 Jun 2025 16:38

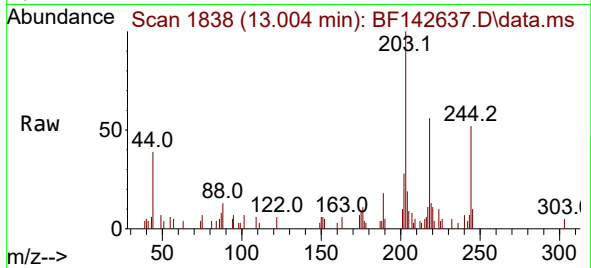
Tgt Ion:202 Resp: 714645
Ion Ratio Lower Upper
202 100
200 19.9 16.1 24.1
203 18.7 13.9 20.9





#79
Terphenyl-d14
Concen: 0.193 ng
RT: 13.004 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF142637.D
Acq: 05 Jun 2025 16:38

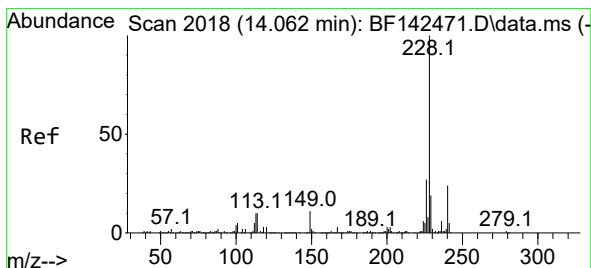
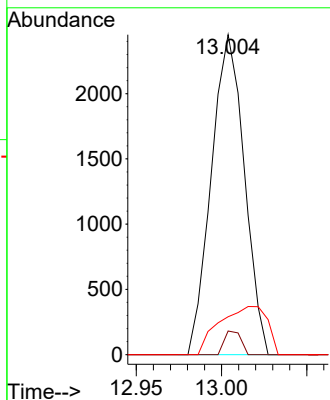
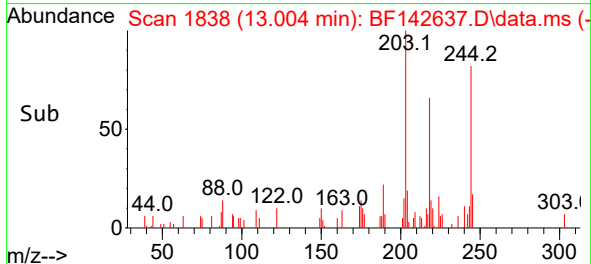
Instrument :
BNA_F
ClientSampleId :
RT2929DL2



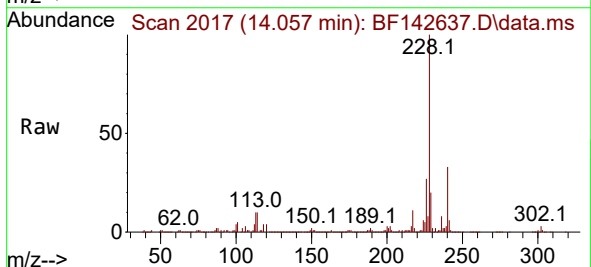
Tgt Ion:244 Resp: 3304
Ion Ratio Lower Upper
244 100
212 7.4 5.3 7.9
122 11.8 8.2 12.2

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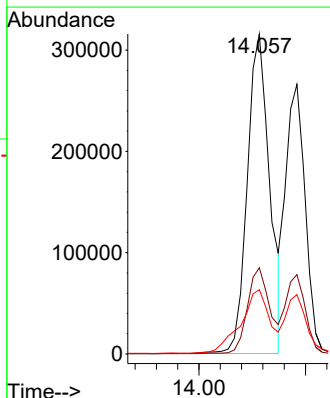
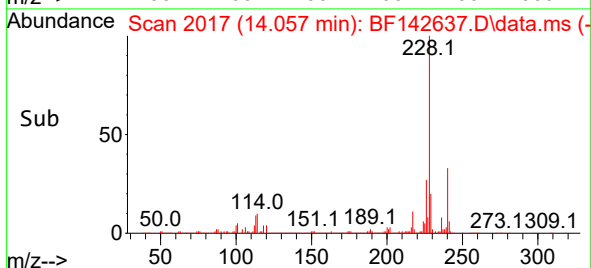
Reviewed By :Rahul Chavli 06/06/2025
Supervised By :Jagrut Upadhyay 06/06/2025

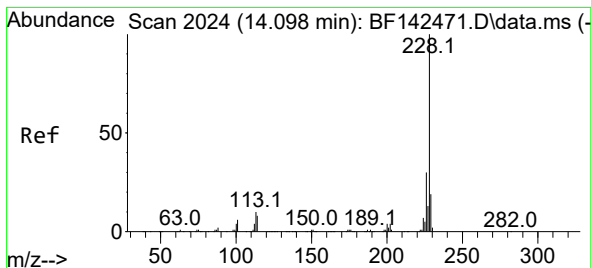


#81
Benzo(a)anthracene
Concen: 29.462 ng
RT: 14.057 min Scan# 2017
Delta R.T. -0.006 min
Lab File: BF142637.D
Acq: 05 Jun 2025 16:38



Tgt Ion:228 Resp: 461324
Ion Ratio Lower Upper
228 100
226 26.9 21.2 31.8
229 20.1 15.5 23.3





#83

Chrysene

Concen: 23.958 ng

RT: 14.092 min Scan# 20

Delta R.T. -0.012 min

Lab File: BF142637.D

Acq: 05 Jun 2025 16:38

Instrument :

BNA_F

ClientSampleId :

RT2929DL2

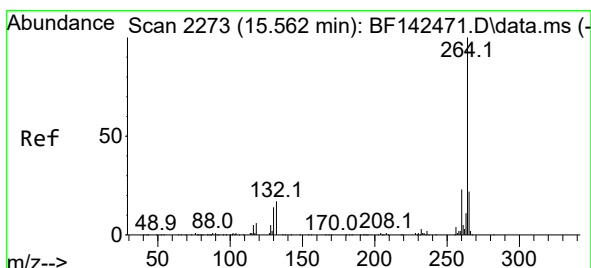
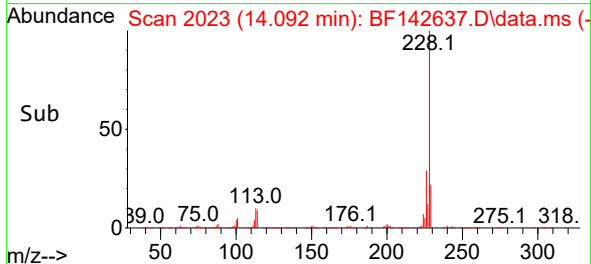
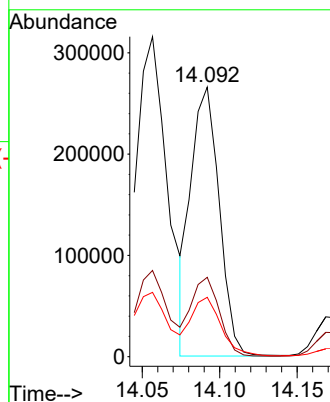
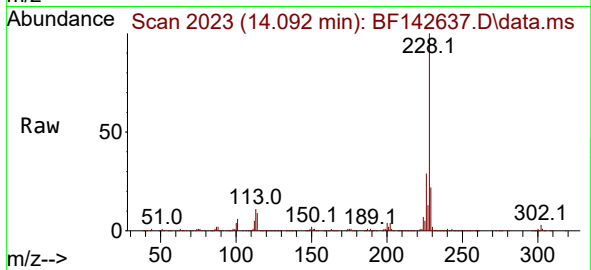
Tgt Ion:228	Resp: 33708
Ion Ratio	Lower Upper
228 100	
226 29.4	23.8 35.6
229 22.0	15.4 23.2

Manual Integrations

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Reviewed By :Rahul Chavli 06/06/2025

Supervised By :Jagrut Upadhyay 06/06/2025



#86

Perylene-d12

Concen: 20.000 ng

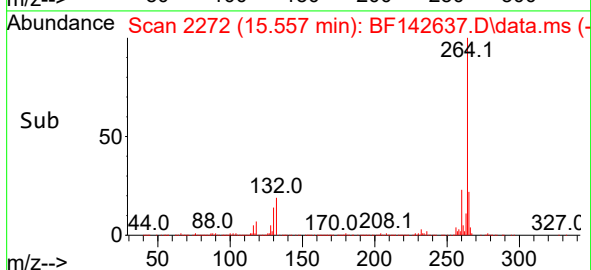
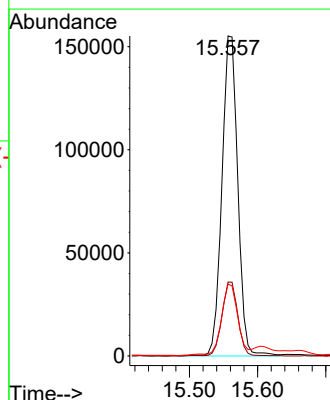
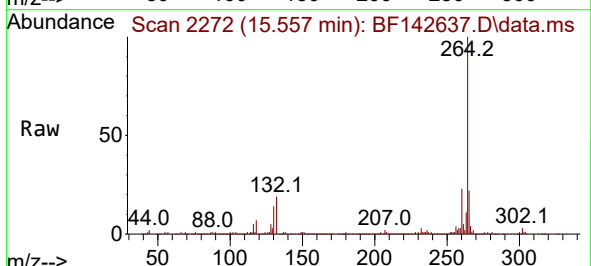
RT: 15.557 min Scan# 2272

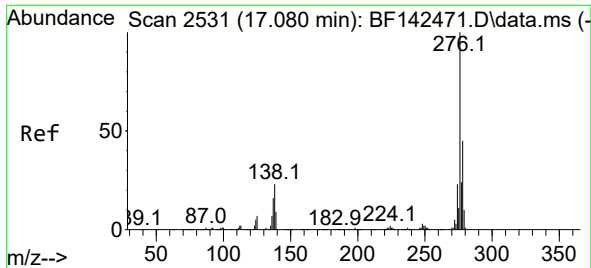
Delta R.T. -0.012 min

Lab File: BF142637.D

Acq: 05 Jun 2025 16:38

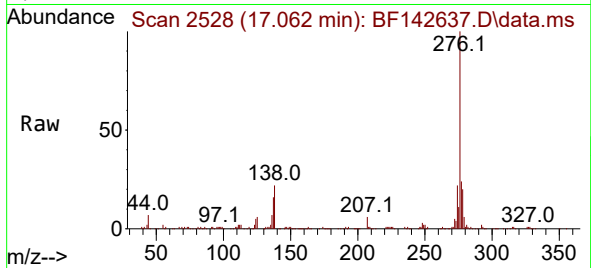
Tgt Ion:264	Resp: 251194
Ion Ratio	Lower Upper
264 100	
260 23.1	18.6 28.0
265 22.5	17.7 26.5





#87
Indeno(1,2,3-cd)pyrene
Concen: 7.219 ng
RT: 17.062 min Scan# 2198
Delta R.T. -0.029 min
Lab File: BF142637.D
Acq: 05 Jun 2025 16:38

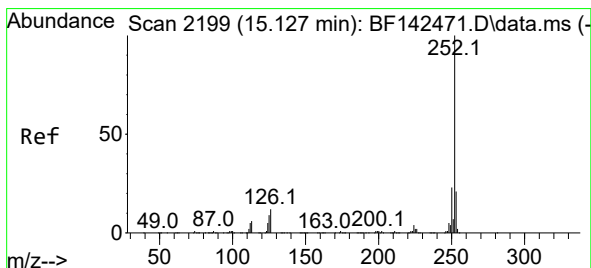
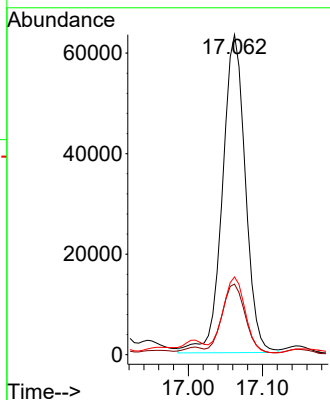
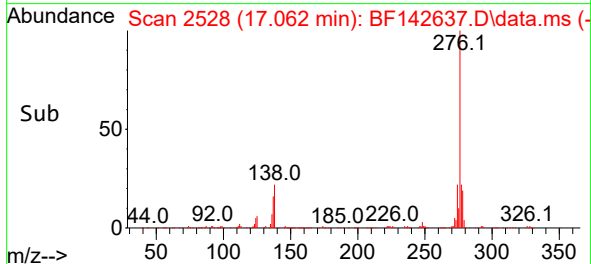
Instrument :
BNA_F
ClientSampleId :
RT2929DL2



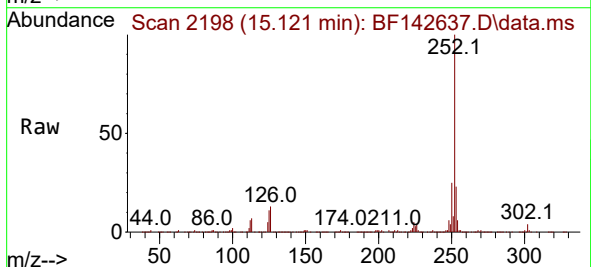
Tgt Ion:276 Resp: 136129
Ion Ratio Lower Upper
276 100
138 22.1 19.9 29.9
277 23.0 20.2 30.2

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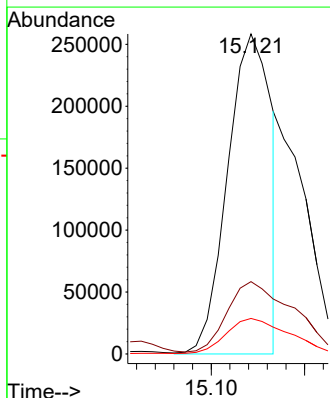
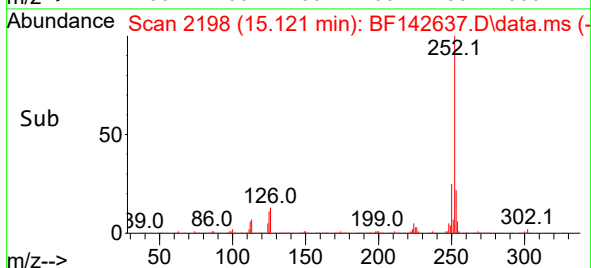
Reviewed By :Rahul Chavli 06/06/2025
Supervised By :Jagrut Upadhyay 06/06/2025

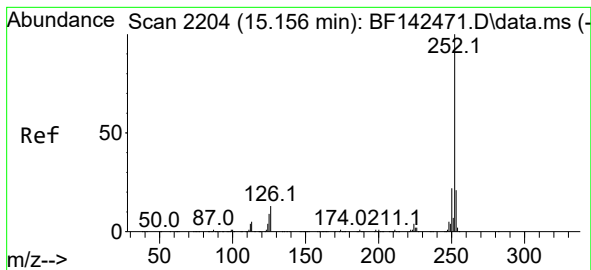


#88
Benzo(b)fluoranthene
Concen: 28.390 ng m
RT: 15.121 min Scan# 2198
Delta R.T. -0.006 min
Lab File: BF142637.D
Acq: 05 Jun 2025 16:38



Tgt Ion:252 Resp: 422065
Ion Ratio Lower Upper
252 100
253 22.6 17.0 25.4
125 11.1 7.4 11.0#





#89

Benzo(k)fluoranthene

Concen: 14.565 ng m

RT: 15.133 min Scan# 21

Delta R.T. -0.029 min

Lab File: BF142637.D

Acq: 05 Jun 2025 16:38

Instrument :

BNA_F

ClientSampleId :

RT2929DL2

Tgt Ion:252 Resp: 20281

Ion Ratio Lower Upper

252 100

253 22.6 17.0 25.4

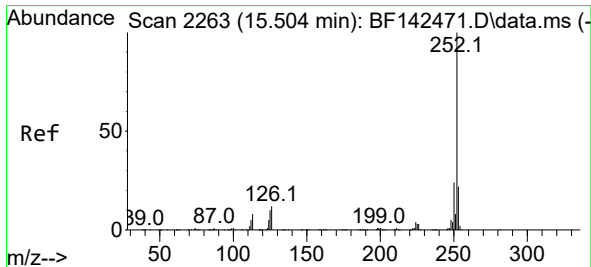
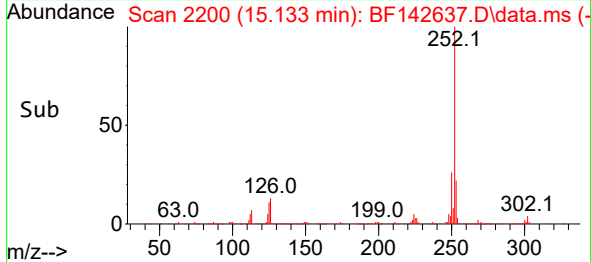
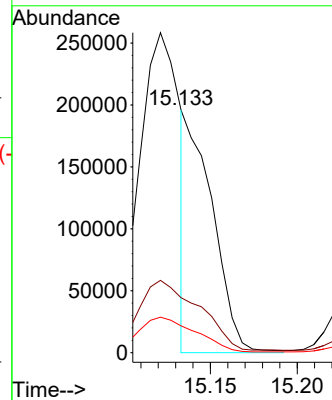
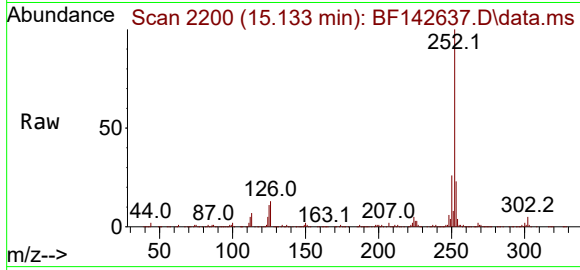
125 11.1 7.3 10.9

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Reviewed By :Rahul Chavli 06/06/2025

Supervised By :Jagrut Upadhyay 06/06/2025



#90

Benzo(a)pyrene

Concen: 22.950 ng

RT: 15.492 min Scan# 2261

Delta R.T. -0.018 min

Lab File: BF142637.D

Acq: 05 Jun 2025 16:38

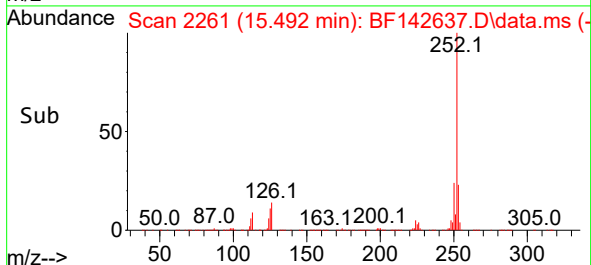
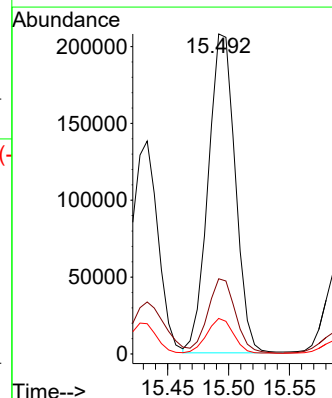
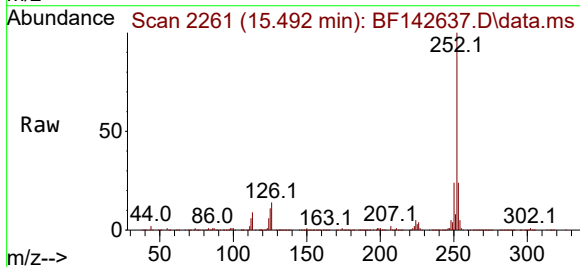
Tgt Ion:252 Resp: 321613

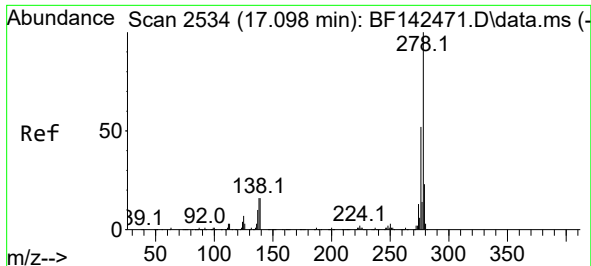
Ion Ratio Lower Upper

252 100

253 23.5 17.4 26.0

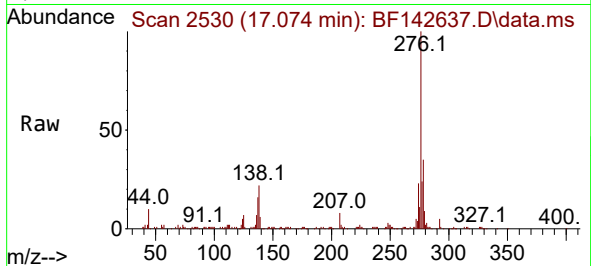
125 11.1 7.9 11.9





#91
Dibenzo(a,h)anthracene
Concen: 2.258 ng m
RT: 17.074 min Scan# 21
Delta R.T. -0.041 min
Lab File: BF142637.D
Acq: 05 Jun 2025 16:38

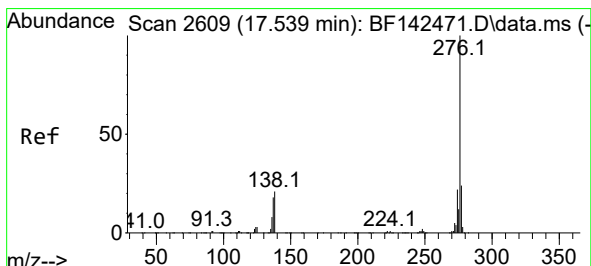
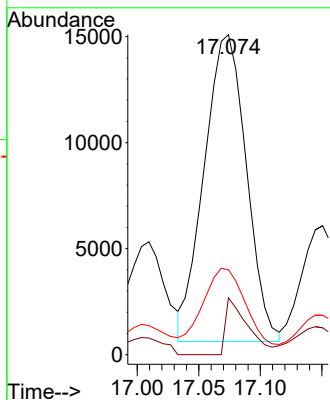
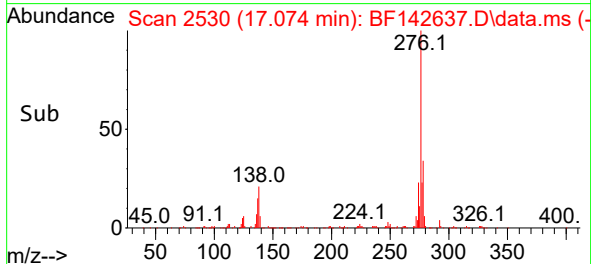
Instrument :
BNA_F
ClientSampleId :
RT2929DL2



Tgt Ion:278 Resp: 3453
Ion Ratio Lower Upper
278 100
139 17.7 12.8 19.2
279 26.6 18.6 28.0

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



#92
Benzo(g,h,i)perylene
Concen: 7.572 ng
RT: 17.521 min Scan# 2606
Delta R.T. -0.035 min
Lab File: BF142637.D
Acq: 05 Jun 2025 16:38

Tgt Ion:276 Resp: 115835
Ion Ratio Lower Upper
276 100
277 24.3 19.2 28.8
138 23.5 16.8 25.2

