

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092525\
 Data File : BF143806.D
 Acq On : 25 Sep 2025 16:21
 Operator : RC/JU
 Sample : Q3188-02
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RB22120

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 09/26/2025
 Supervised By :Jagrut Upadhyay 09/26/2025

Quant Time: Sep 25 17:04:25 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 24 05:00:00 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	137519	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	509190	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	260166	20.000	ng	0.00
64) Phenanthrene-d10	11.422	188	385687	20.000	ng	0.00
76) Chrysene-d12	14.063	240	389128	20.000	ng	0.00
86) Perylene-d12	15.539	264	612857	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	656017	77.504	ng	0.00
7) Phenol-d6	6.498	99	802677	82.074	ng	-0.01
23) Nitrobenzene-d5	7.440	82	474978	57.099	ng	-0.01
42) 2,4,6-Tribromophenol	10.710	330	269438	69.944	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	920626	55.220	ng	0.00
79) Terphenyl-d14	13.004	244	1099120	57.445	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.187	128	62080	2.547	ng	99
49) Acenaphthylene	9.781	152	74461	3.568	ng	# 96
52) Acenaphthene	9.957	154	986474	71.831	ng	100
55) Dibenzofuran	10.128	168	887265	45.688	ng	99
58) Fluorene	10.475	166	1397197	96.778	ng	99
71) Phenanthrene	11.457	178	6495828	328.054	ng	95
72) Anthracene	11.498	178	959467m	48.307	ng	
73) Carbazole	11.639	167	359188	20.684	ng	99
75) Fluoranthene	12.651	202	6410019	321.861	ng	94
78) Pyrene	12.875	202	4662437m	243.709	ng	
81) Benzo(a)anthracene	14.051	228	1859365	88.945	ng	96
83) Chrysene	14.086	228	1470339	77.730	ng	97
84) Bis(2-ethylhexyl)phtha...	14.039	149	19646	2.025	ng	98
87) Indeno(1,2,3-cd)pyrene	17.021	276	353175	7.595	ng	97
88) Benzo(b)fluoranthene	15.110	252	1914270m	61.336	ng	
89) Benzo(k)fluoranthene	15.127	252	516791m	16.482	ng	
90) Benzo(a)pyrene	15.474	252	930837	31.730	ng	98
91) Dibenzo(a,h)anthracene	17.033	278	97267	2.557	ng	97
92) Benzo(g,h,i)perylene	17.474	276	264932	7.226	ng	99

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

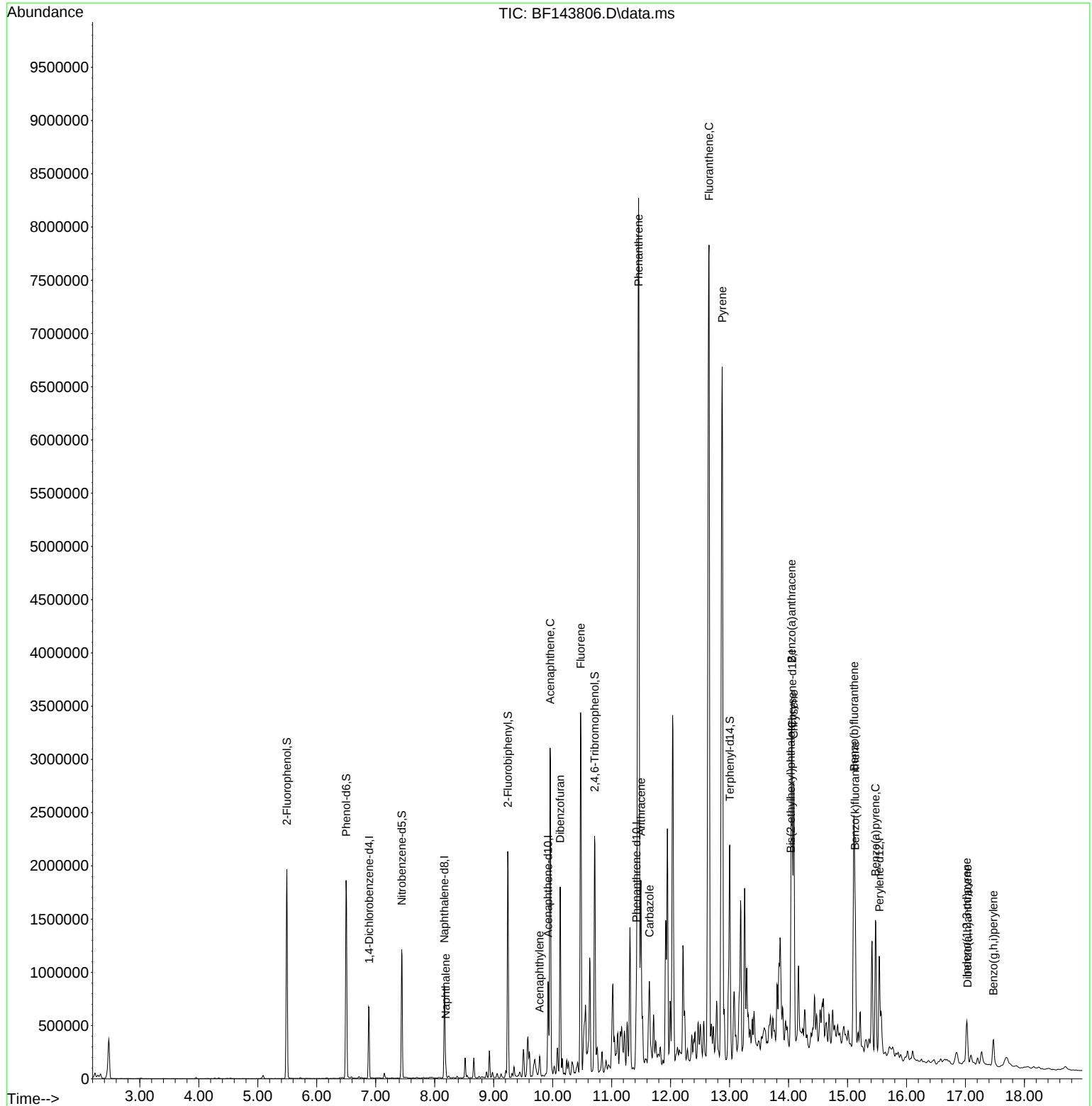
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092525\
Data File : BF143806.D
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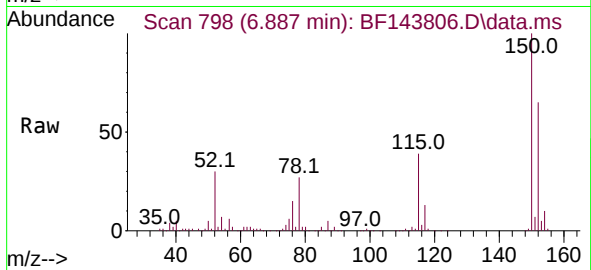
Quant Time: Sep 25 17:04:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 05:00:00 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 798
Delta R.T. -0.000 min
Lab File: BF143806.D
Acq: 25 Sep 2025 16:21

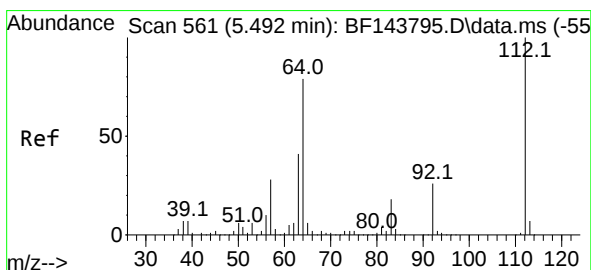
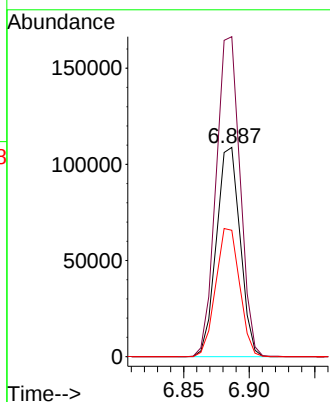
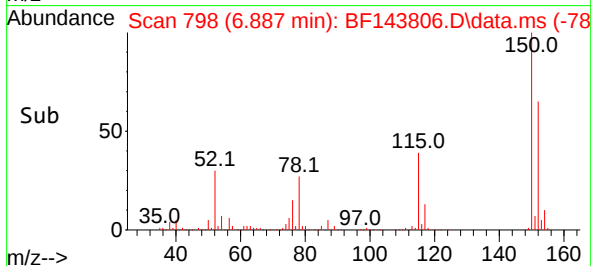
Instrument :
BNA_F
ClientSampleId :
RB22120



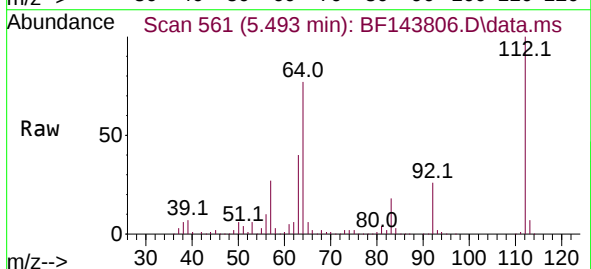
Tgt Ion:152 Resp: 137519
Ion Ratio Lower Upper
152 100
150 152.9 129.6 194.4
115 60.4 49.0 73.4

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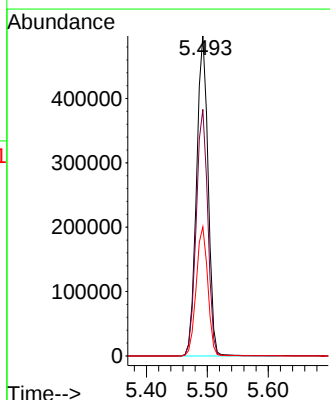
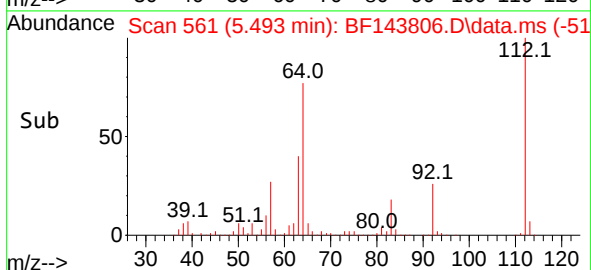
Reviewed By :Rahul Chavli 09/26/2025
Supervised By :Jagrut Upadhyay 09/26/2025



#5
2-Fluorophenol
Concen: 77.504 ng
RT: 5.493 min Scan# 561
Delta R.T. -0.005 min
Lab File: BF143806.D
Acq: 25 Sep 2025 16:21



Tgt Ion:112 Resp: 656017
Ion Ratio Lower Upper
112 100
64 77.0 63.0 94.4
63 40.3 32.6 49.0





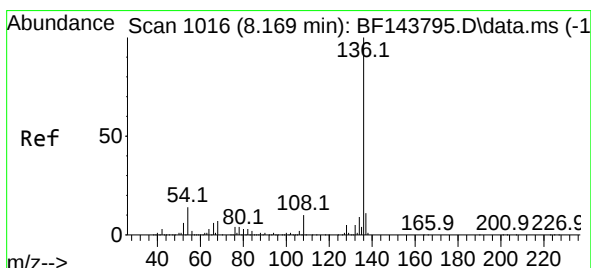
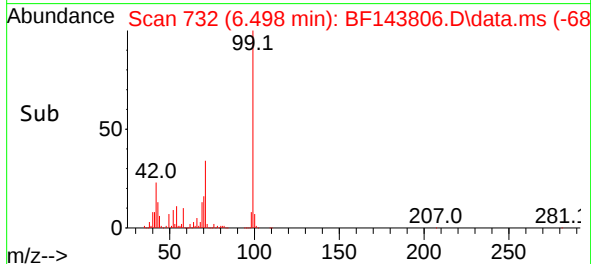
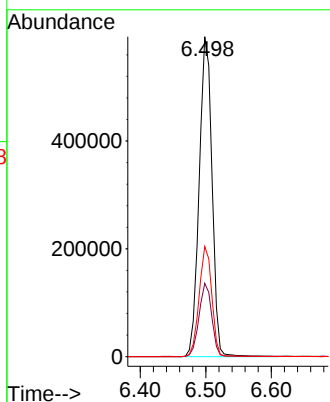
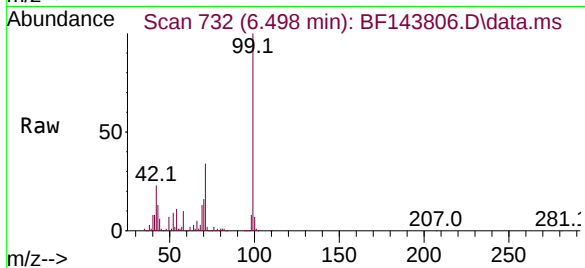
#7
Phenol-d6
Concen: 82.074 ng
RT: 6.498 min Scan# 731
Delta R.T. -0.012 min
Lab File: BF143806.D
Acq: 25 Sep 2025 16:21

Instrument :
BNA_F
ClientSampleId :
RB22120

Tgt Ion: 99 Resp: 802672
Ion Ratio Lower Upper
99 100
42 22.9 18.6 28.0
71 34.4 27.0 40.4

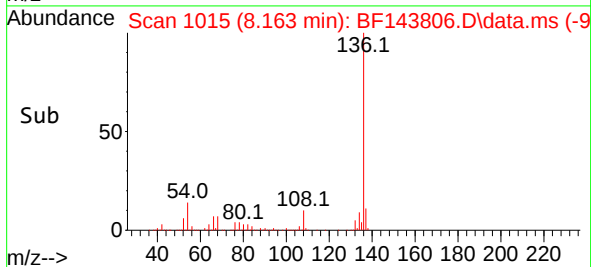
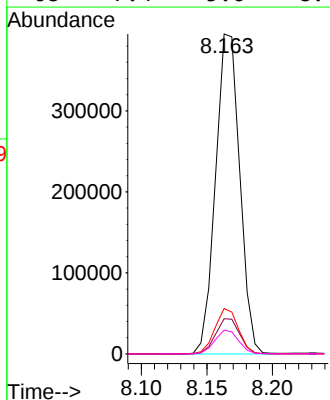
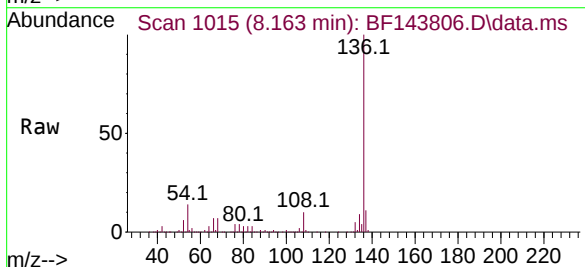
Manual Integrations
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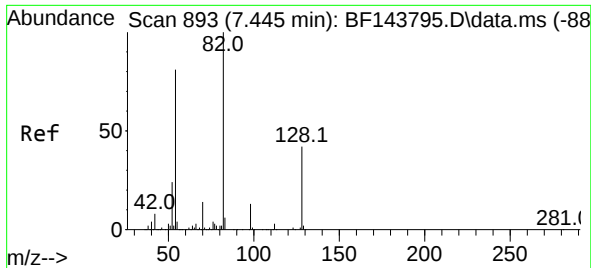
Reviewed By :Rahul Chavli 09/26/2025
Supervised By :Jagrut Upadhyay 09/26/2025



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1015
Delta R.T. -0.006 min
Lab File: BF143806.D
Acq: 25 Sep 2025 16:21

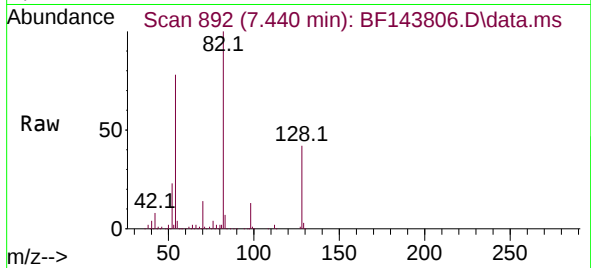
Tgt Ion:136 Resp: 509190
Ion Ratio Lower Upper
136 100
137 11.0 9.0 13.4
54 14.2 11.2 16.8
68 7.4 5.6 8.4





#23
Nitrobenzene-d5
Concen: 57.099 ng
RT: 7.440 min Scan# 89
Delta R.T. -0.011 min
Lab File: BF143806.D
Acq: 25 Sep 2025 16:21

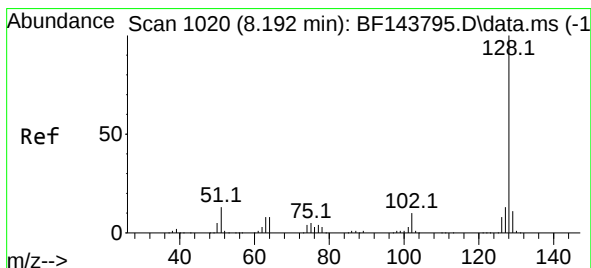
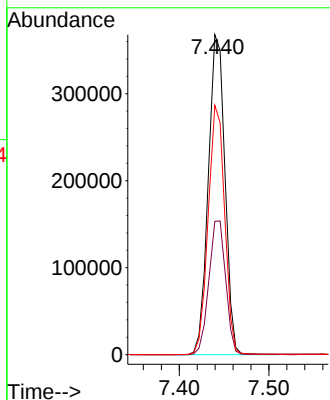
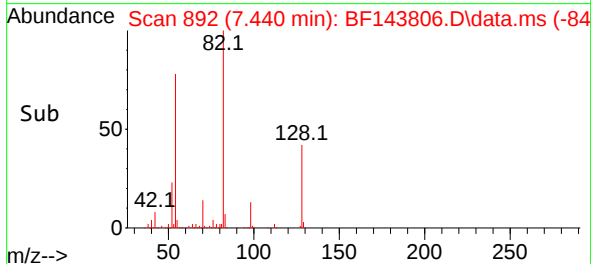
Instrument :
BNA_F
ClientSampleId :
RB22120



Tgt Ion: 82 Resp: 474978
Ion Ratio Lower Upper
82 100
128 41.7 33.3 49.9
54 77.9 64.2 96.4

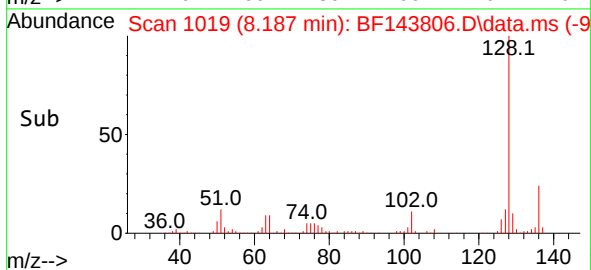
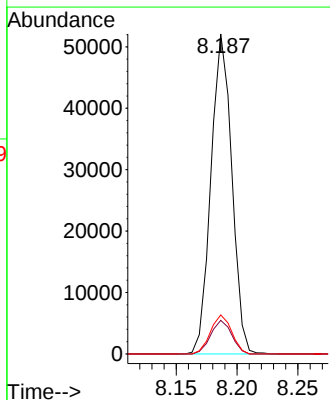
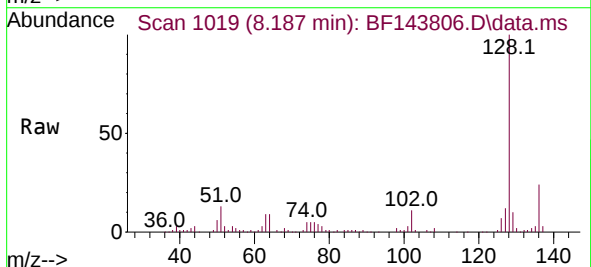
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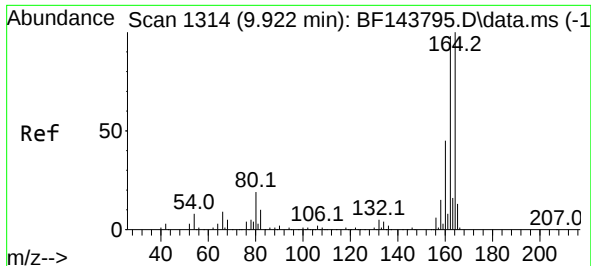
Reviewed By :Rahul Chavli 09/26/2025
Supervised By :Jagrut Upadhyay 09/26/2025



#31
Naphthalene
Concen: 2.547 ng
RT: 8.187 min Scan# 1019
Delta R.T. -0.006 min
Lab File: BF143806.D
Acq: 25 Sep 2025 16:21

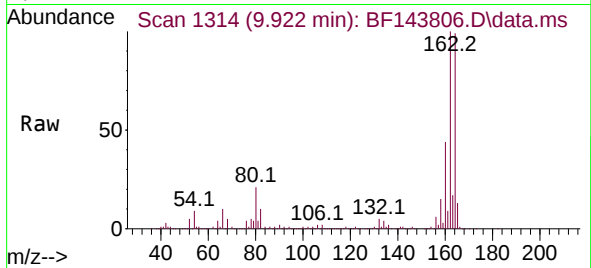
Tgt Ion:128 Resp: 62080
Ion Ratio Lower Upper
128 100
129 10.5 8.8 13.2
127 12.2 10.2 15.4





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1314
Delta R.T. -0.006 min
Lab File: BF143806.D
Acq: 25 Sep 2025 16:21

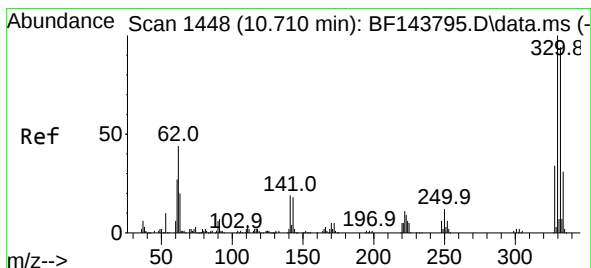
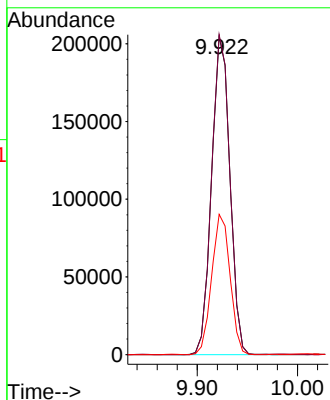
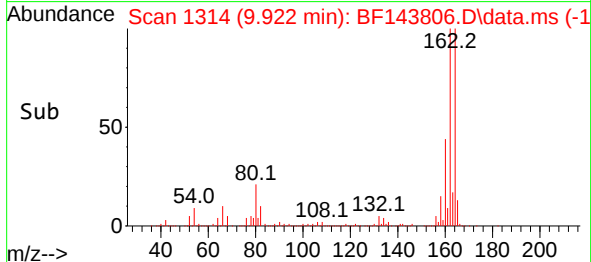
Instrument :
BNA_F
ClientSampleId :
RB22120



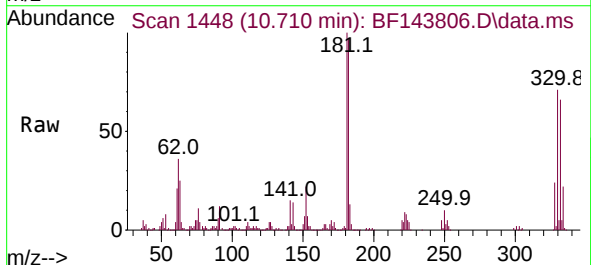
Tgt Ion:164 Resp: 260166
Ion Ratio Lower Upper
164 100
162 100.5 78.8 118.2
160 44.0 35.8 53.6

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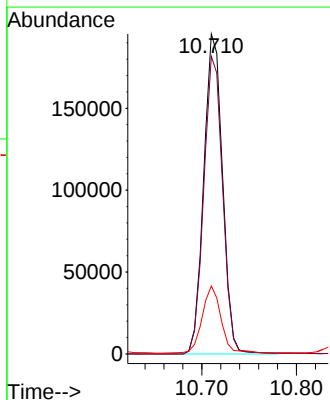
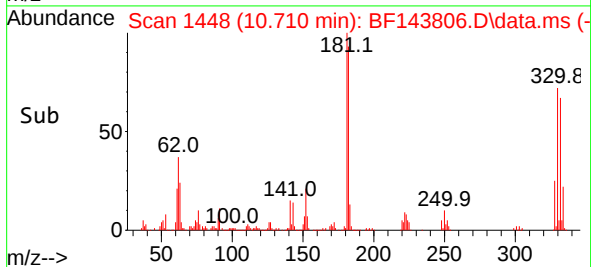
Reviewed By :Rahul Chavli 09/26/2025
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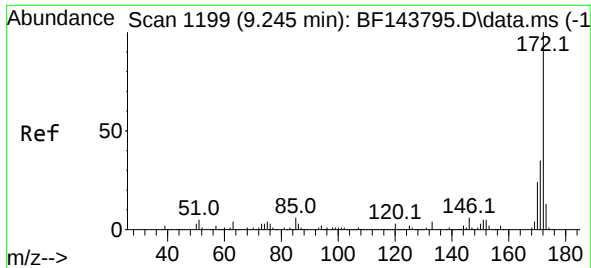


#42
2,4,6-Tribromophenol
Concen: 69.944 ng
RT: 10.710 min Scan# 1448
Delta R.T. -0.006 min
Lab File: BF143806.D
Acq: 25 Sep 2025 16:21



Tgt Ion:330 Resp: 269438
Ion Ratio Lower Upper
330 100
332 93.6 74.7 112.1
141 21.0 14.3 21.5





#45

2-Fluorobiphenyl

Concen: 55.220 ng

RT: 9.239 min Scan# 1199

Delta R.T. -0.006 min

Lab File: BF143806.D

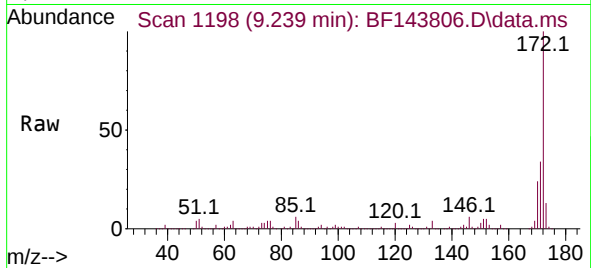
Acq: 25 Sep 2025 16:21

Instrument :

BNA_F

ClientSampleId :

RB22120



Tgt Ion:172 Resp: 920626

Ion Ratio Lower Upper

172 100

171 34.3 27.9 41.9

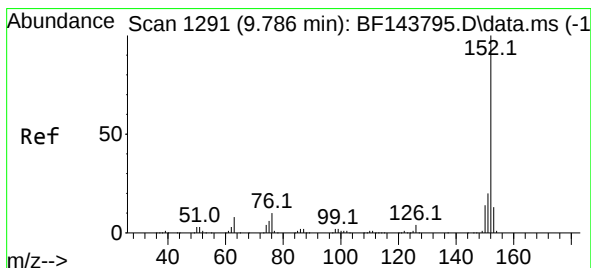
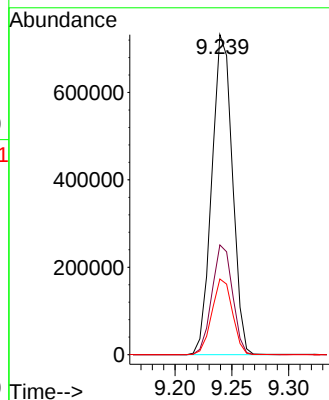
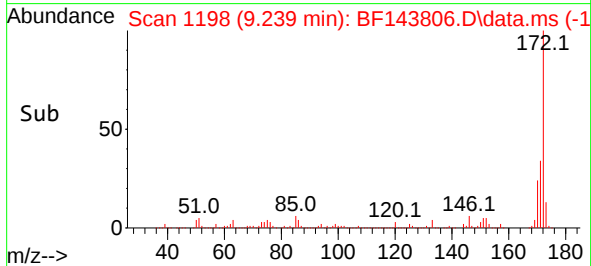
170 23.6 19.1 28.7

Manual Integrations

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#49

Acenaphthylene

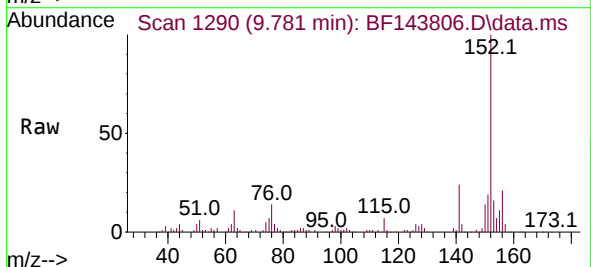
Concen: 3.568 ng

RT: 9.781 min Scan# 1290

Delta R.T. -0.006 min

Lab File: BF143806.D

Acq: 25 Sep 2025 16:21



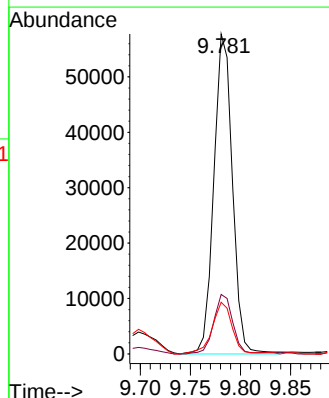
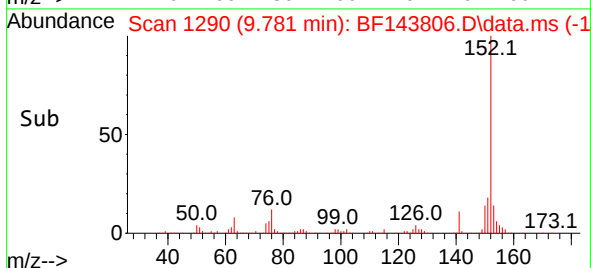
Tgt Ion:152 Resp: 74461

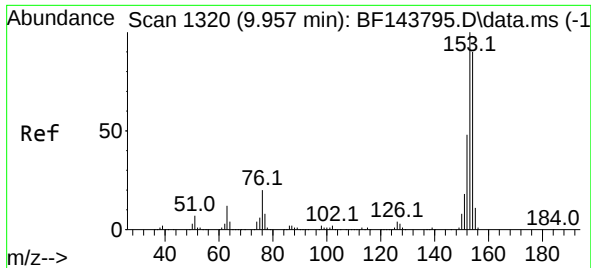
Ion Ratio Lower Upper

152 100

151 18.6 15.7 23.5

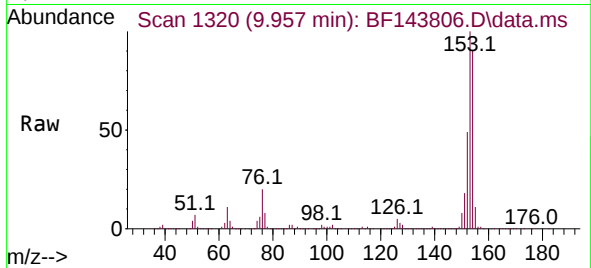
153 16.1 10.6 15.8#





#52
Acenaphthene
Concen: 71.831 ng
RT: 9.957 min Scan# 1320
Delta R.T. -0.006 min
Lab File: BF143806.D
Acq: 25 Sep 2025 16:21

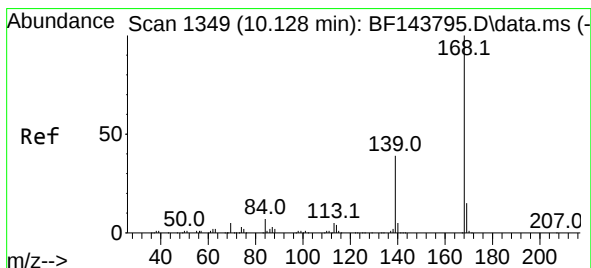
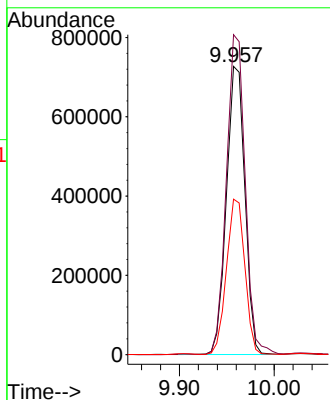
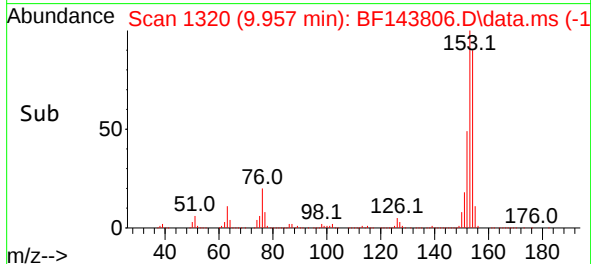
Instrument :
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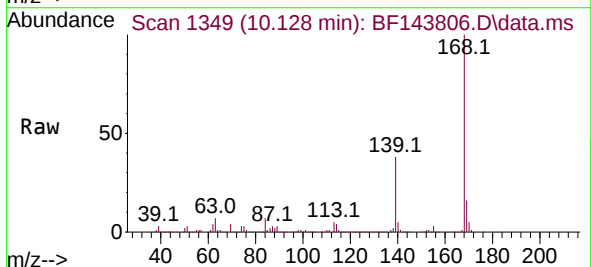
Tgt Ion:154 Resp: 986474
Ion Ratio Lower Upper
154 100
153 111.0 88.7 133.1
152 53.9 42.7 64.1

Manual Integrations
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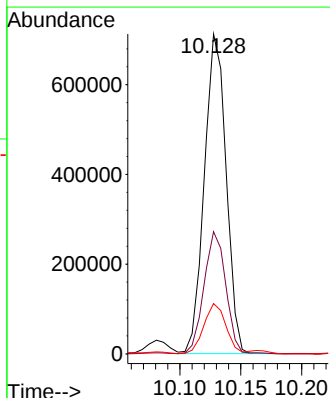
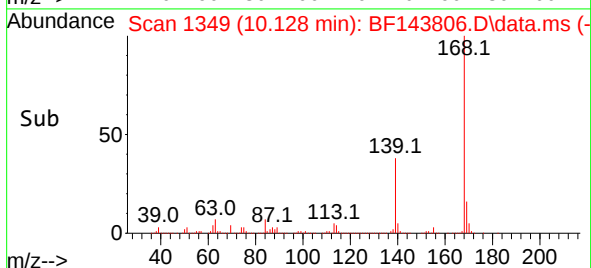
Reviewed By :Rahul Chavli 09/26/2025
Supervised By :Jagrut Upadhyay 09/26/2025

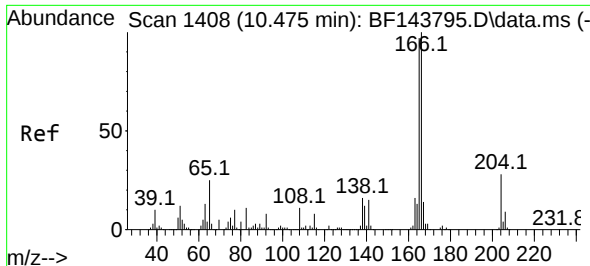


#55
Dibenzofuran
Concen: 45.688 ng
RT: 10.128 min Scan# 1349
Delta R.T. -0.006 min
Lab File: BF143806.D
Acq: 25 Sep 2025 16:21



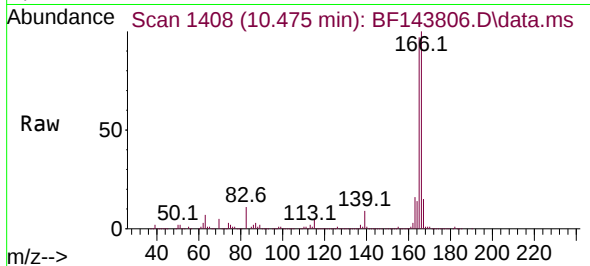
Tgt Ion:168 Resp: 887265
Ion Ratio Lower Upper
168 100
139 38.2 31.0 46.6
169 15.7 11.9 17.9





#58
Fluorene
Concen: 96.778 ng
RT: 10.475 min Scan# 1408
Delta R.T. 0.000 min
Lab File: BF143806.D
Acq: 25 Sep 2025 16:21

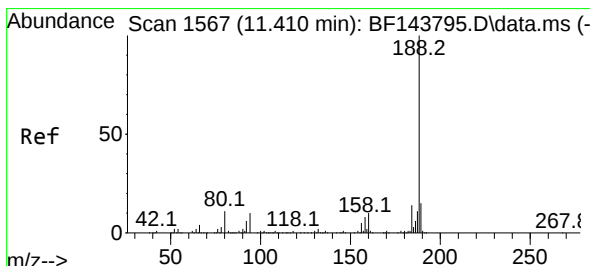
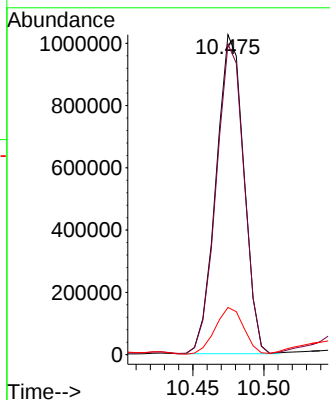
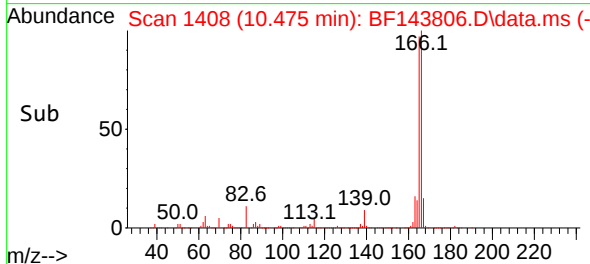
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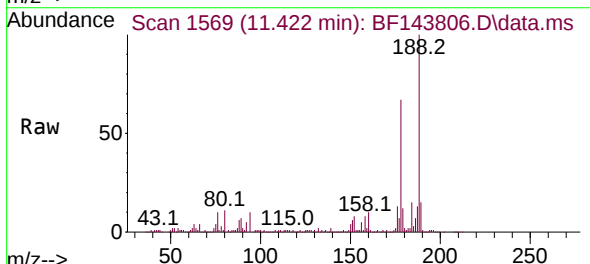
Tgt Ion:166 Resp: 1397197
Ion Ratio Lower Upper
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165 97.0 78.0 117.0
167 14.7 10.9 16.3

Manual Integrations
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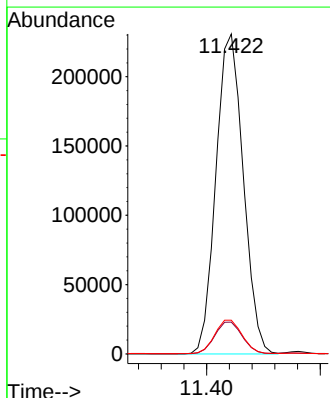
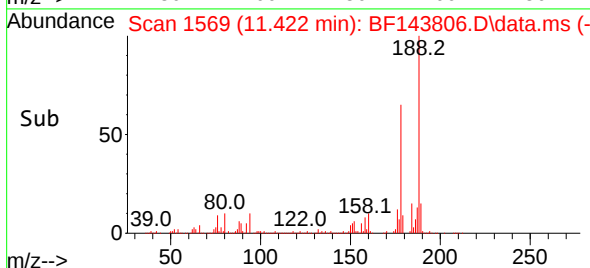
Reviewed By :Rahul Chavli 09/26/2025
Supervised By :Jagrut Upadhyay 09/26/2025

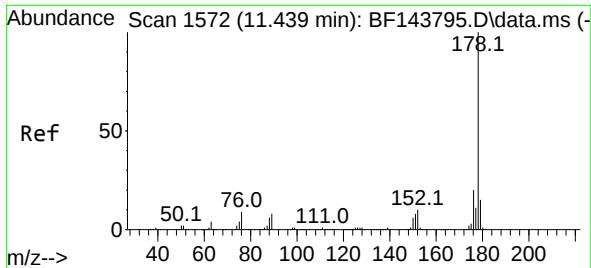


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1569
Delta R.T. 0.006 min
Lab File: BF143806.D
Acq: 25 Sep 2025 16:21



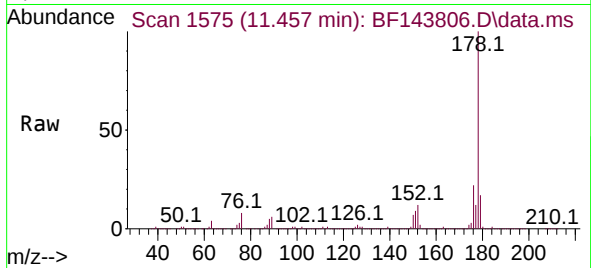
Tgt Ion:188 Resp: 385687
Ion Ratio Lower Upper
188 100
94 9.9 8.2 12.2
80 10.5 8.6 12.8





#71
Phenanthrene
Concen: 328.054 ng
RT: 11.457 min Scan# 11457
Delta R.T. 0.018 min
Lab File: BF143806.D
Acq: 25 Sep 2025 16:21

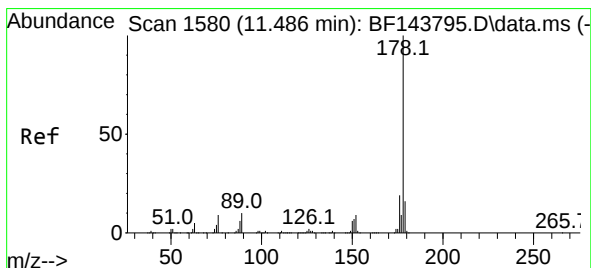
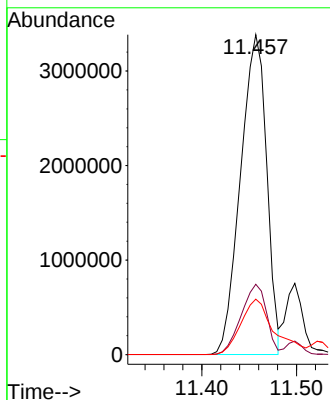
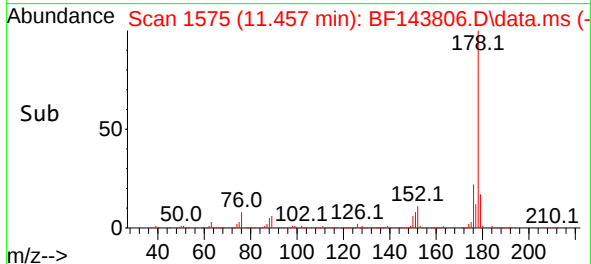
Instrument :
BNA_F
ClientSampleId :
RB22120



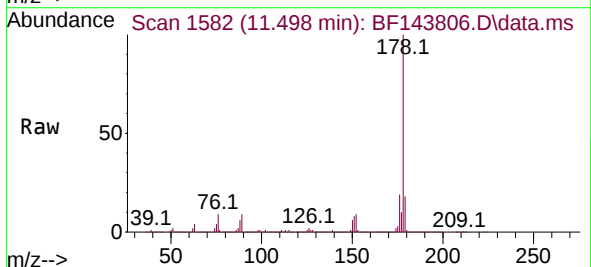
Tgt Ion:178 Resp: 6495828
Ion Ratio Lower Upper
178 100
176 22.0 15.6 23.4
179 17.3 12.2 18.4

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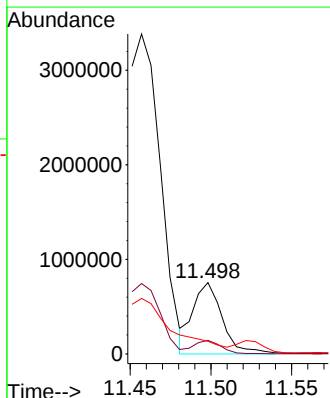
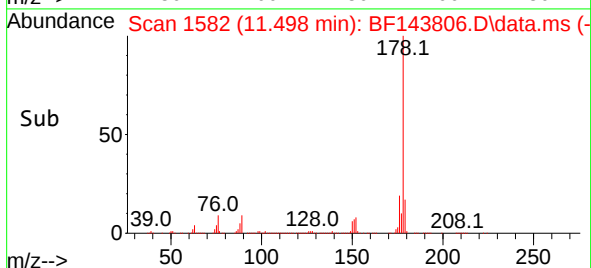
Reviewed By :Rahul Chavli 09/26/2025
Supervised By :Jagrut Upadhyay 09/26/2025

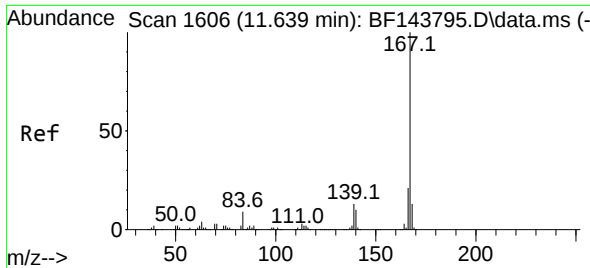


#72
Anthracene
Concen: 48.307 ng m
RT: 11.498 min Scan# 1582
Delta R.T. 0.006 min
Lab File: BF143806.D
Acq: 25 Sep 2025 16:21



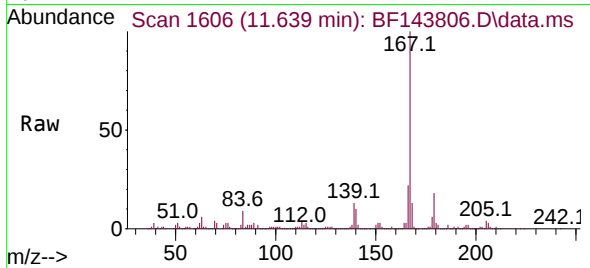
Tgt Ion:178 Resp: 959467
Ion Ratio Lower Upper
178 100
176 19.1 15.3 22.9
179 17.5 12.8 19.2





#73
 Carbazole
 Concen: 20.684 ng
 RT: 11.639 min Scan# 1606
 Delta R.T. -0.006 min
 Lab File: BF143806.D
 Acq: 25 Sep 2025 16:21

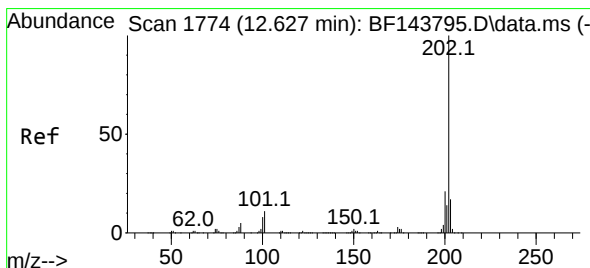
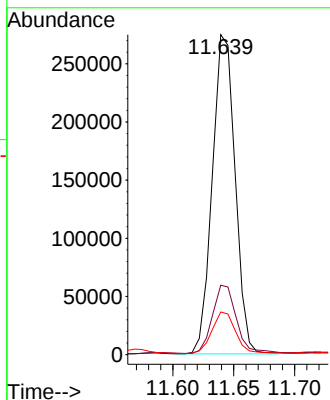
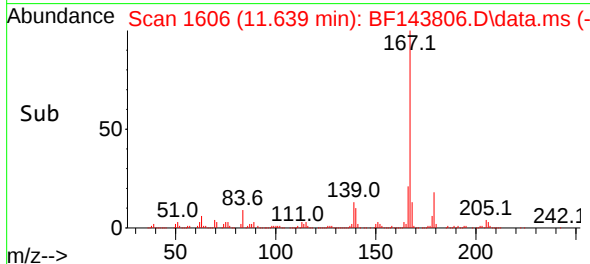
Instrument :
 BNA_F
 ClientSampleId :
 RB22120



Tgt Ion:167 Resp: 359188
 Ion Ratio Lower Upper
 167 100
 166 21.7 17.0 25.4
 139 13.3 10.6 15.8

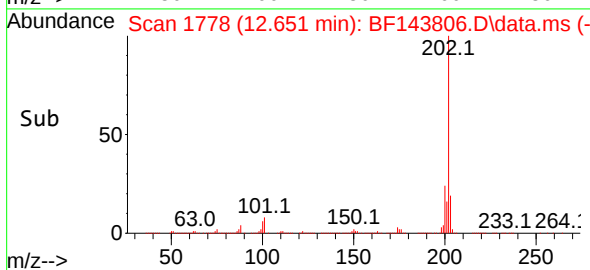
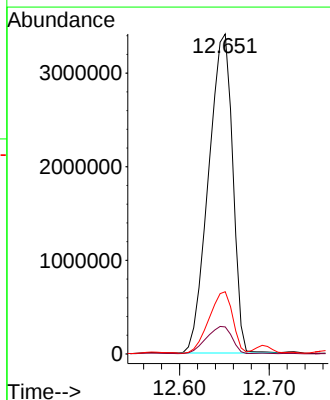
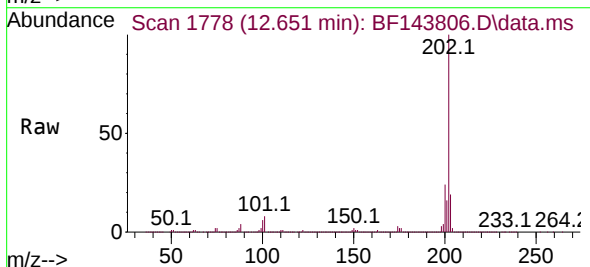
Manual Integrations
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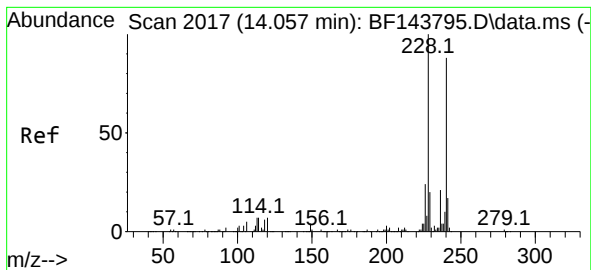
Reviewed By :Rahul Chavli 09/26/2025
 Supervised By :Jagrut Upadhyay 09/26/2025



#75
 Fluoranthene
 Concen: 321.861 ng
 RT: 12.651 min Scan# 1778
 Delta R.T. 0.024 min
 Lab File: BF143806.D
 Acq: 25 Sep 2025 16:21

Tgt Ion:202 Resp: 6410019
 Ion Ratio Lower Upper
 202 100
 101 8.4 0.0 31.1
 203 19.4 0.0 37.4





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.063 min Scan# 20

Delta R.T. 0.000 min

Lab File: BF143806.D

Acq: 25 Sep 2025 16:21

Instrument :

BNA_F

ClientSampleId :

RB22120

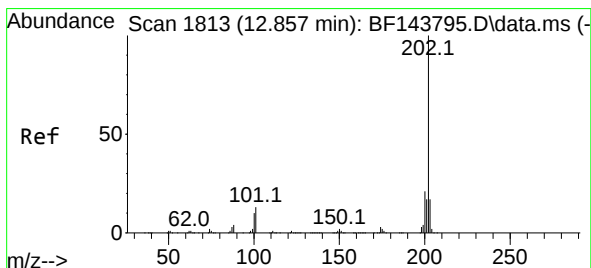
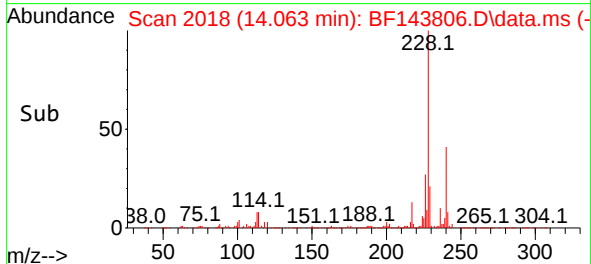
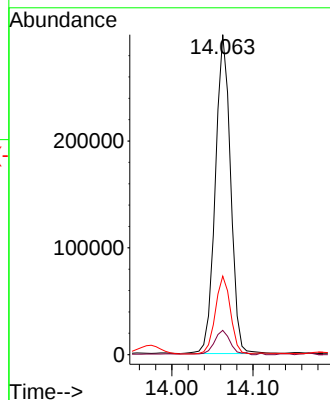
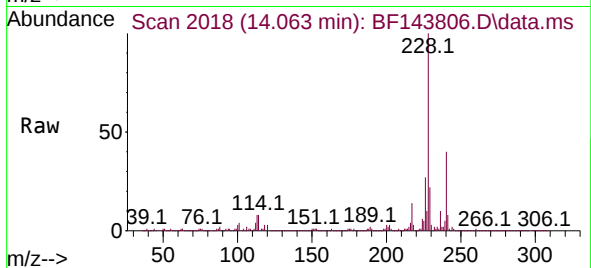
Tgt Ion:240 Resp: 389128
 Ion Ratio Lower Upper
 240 100
 120 7.6 6.2 9.4
 236 24.5 19.4 29.2

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/26/2025

Supervised By :Jagrut Upadhyay 09/26/2025



#78

Pyrene

Concen: 243.709 ng m

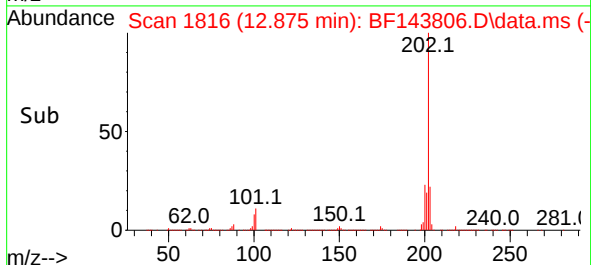
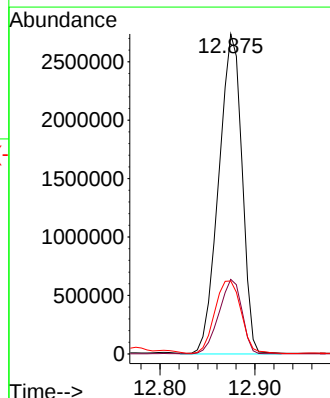
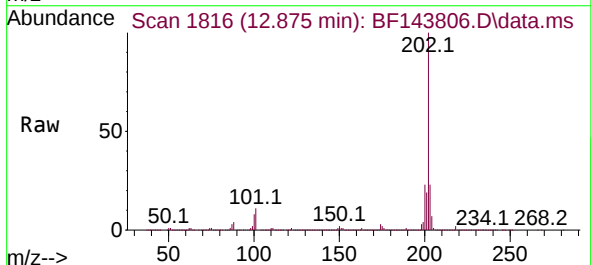
RT: 12.875 min Scan# 1816

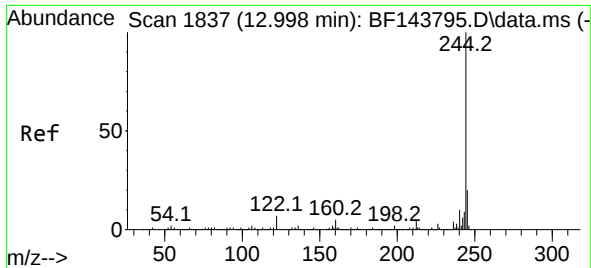
Delta R.T. 0.018 min

Lab File: BF143806.D

Acq: 25 Sep 2025 16:21

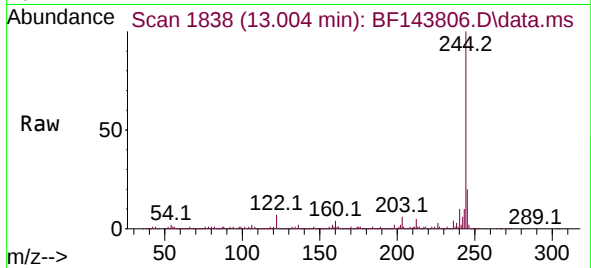
Tgt Ion:202 Resp: 4662437
 Ion Ratio Lower Upper
 202 100
 200 23.3 17.0 25.4
 203 22.8 13.9 20.9#





#79
 Terphenyl-d14
 Concen: 57.445 ng
 RT: 13.004 min Scan# 1837
 Delta R.T. -0.000 min
 Lab File: BF143806.D
 Acq: 25 Sep 2025 16:21

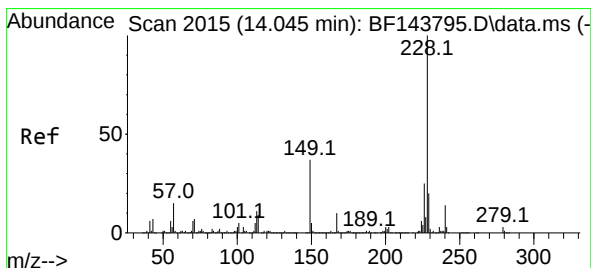
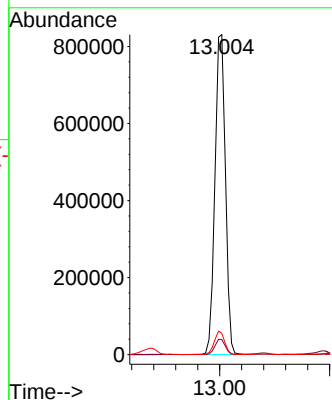
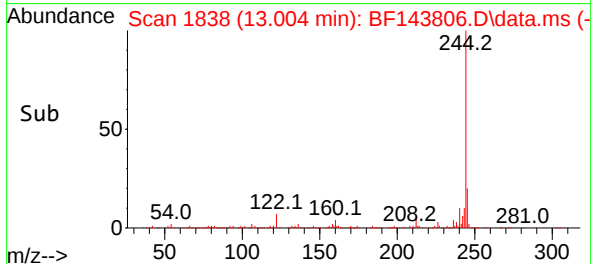
Instrument :
 BNA_F
 ClientSampleId :
 RB22120



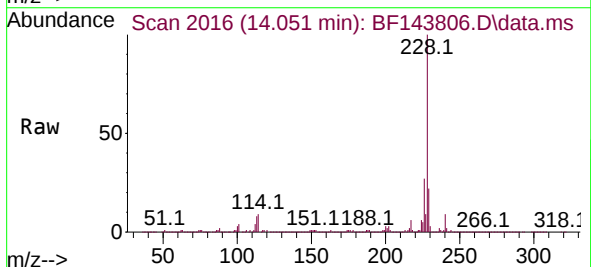
Tgt Ion:244 Resp: 1099120
 Ion Ratio Lower Upper
 244 100
 212 4.7 3.9 5.9
 122 6.6 5.6 8.4

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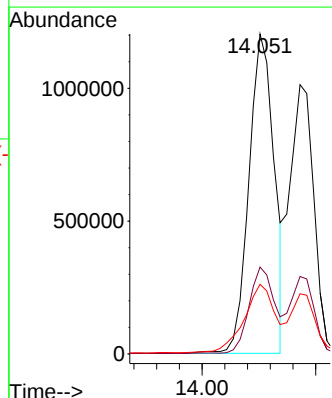
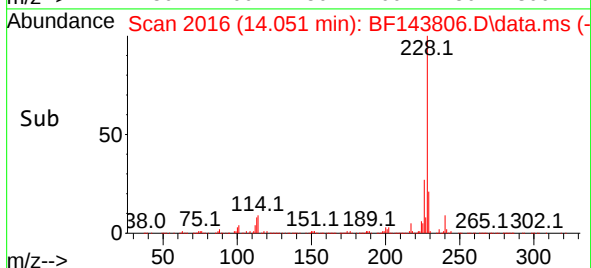
Reviewed By :Rahul Chavli 09/26/2025
 Supervised By :Jagrut Upadhyay 09/26/2025

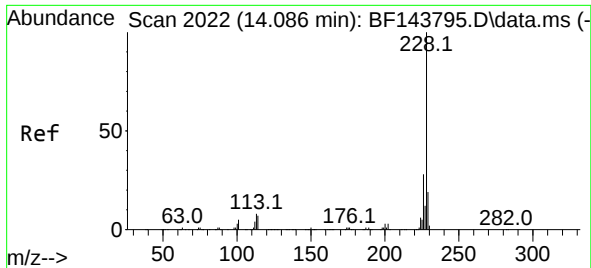


#81
 Benzo(a)anthracene
 Concen: 88.945 ng
 RT: 14.051 min Scan# 2016
 Delta R.T. 0.000 min
 Lab File: BF143806.D
 Acq: 25 Sep 2025 16:21



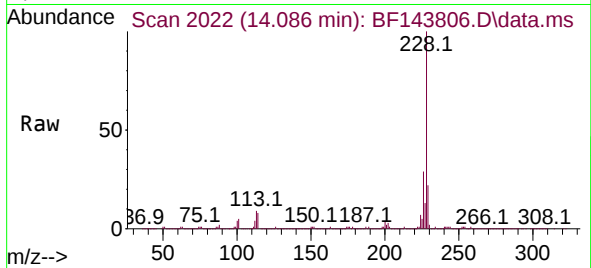
Tgt Ion:228 Resp: 1859365
 Ion Ratio Lower Upper
 228 100
 226 27.1 20.2 30.2
 229 21.8 16.1 24.1





#83
Chrysene
Concen: 77.730 ng
RT: 14.086 min Scan# 2022
Delta R.T. 0.000 min
Lab File: BF143806.D
Acq: 25 Sep 2025 16:21

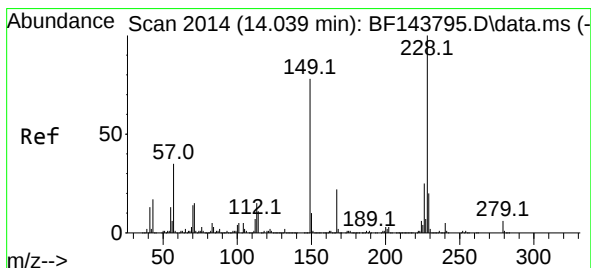
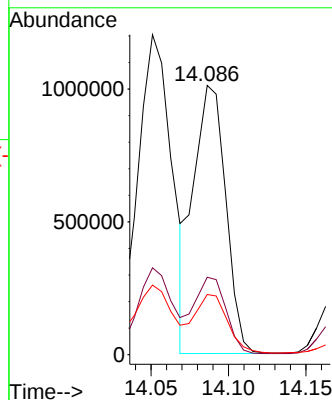
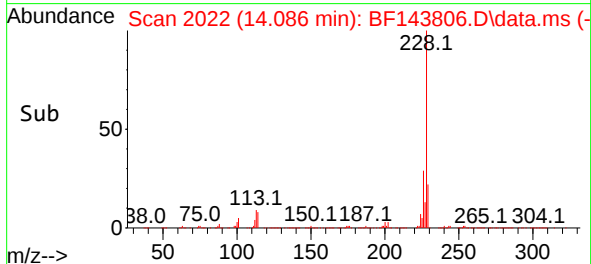
Instrument :
BNA_F
ClientSampleId :
RB22120



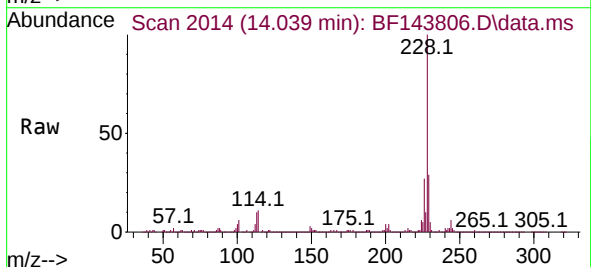
Tgt Ion:228 Resp: 1470339
Ion Ratio Lower Upper
228 100
226 28.7 22.6 33.8
229 22.3 15.6 23.4

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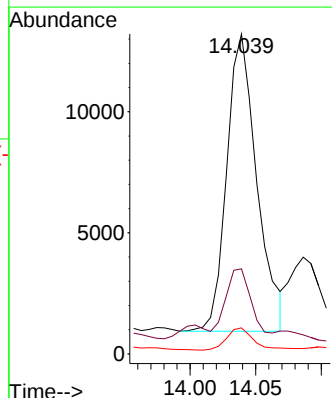
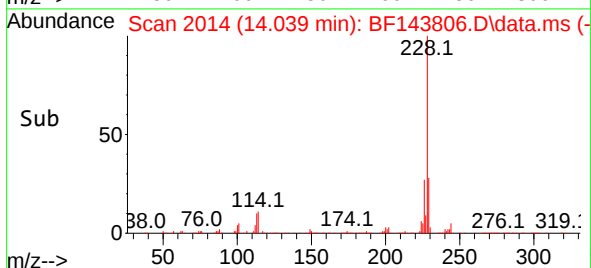
Reviewed By :Rahul Chavli 09/26/2025
Supervised By :Jagrut Upadhyay 09/26/2025

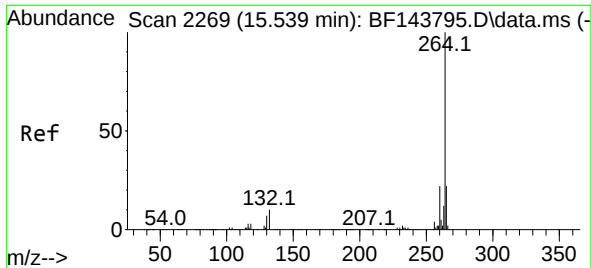


#84
Bis(2-ethylhexyl)phthalate
Concen: 2.025 ng
RT: 14.039 min Scan# 2014
Delta R.T. 0.000 min
Lab File: BF143806.D
Acq: 25 Sep 2025 16:21



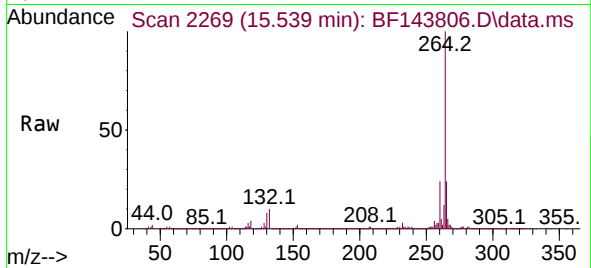
Tgt Ion:149 Resp: 19646
Ion Ratio Lower Upper
149 100
167 26.6 22.2 33.2
279 8.1 6.0 9.0





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.539 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF143806.D
Acq: 25 Sep 2025 16:21

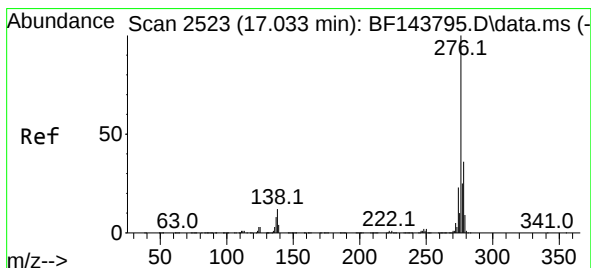
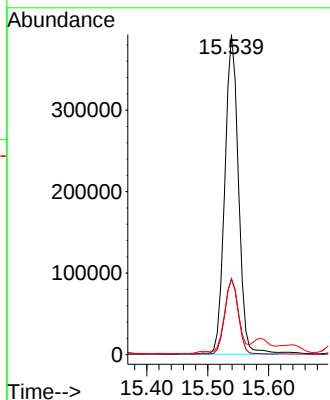
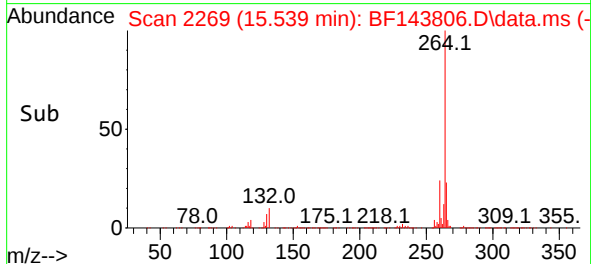
Instrument :
BNA_F
ClientSampleId :
RB22120



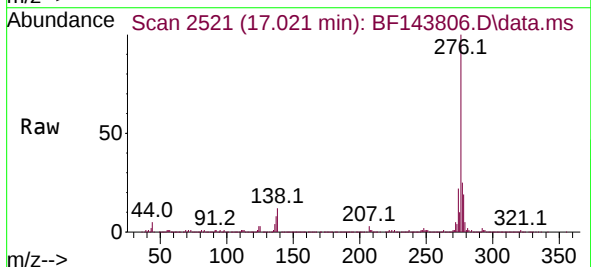
Tgt Ion:264 Resp: 61285
Ion Ratio Lower Upper
264 100
260 23.8 17.9 26.9
265 23.5 17.7 26.5

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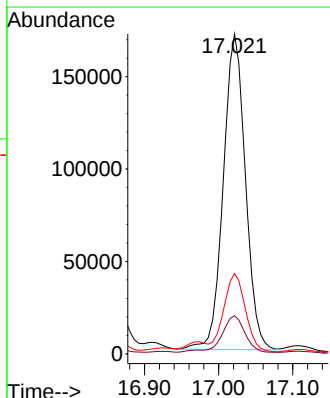
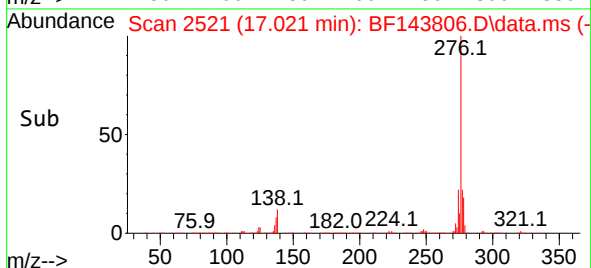
Reviewed By :Rahul Chavli 09/26/2025
Supervised By :Jagrut Upadhyay 09/26/2025

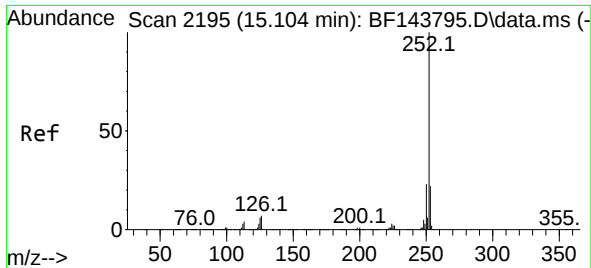


#87
Indeno(1,2,3-cd)pyrene
Concen: 7.595 ng
RT: 17.021 min Scan# 2521
Delta R.T. -0.023 min
Lab File: BF143806.D
Acq: 25 Sep 2025 16:21



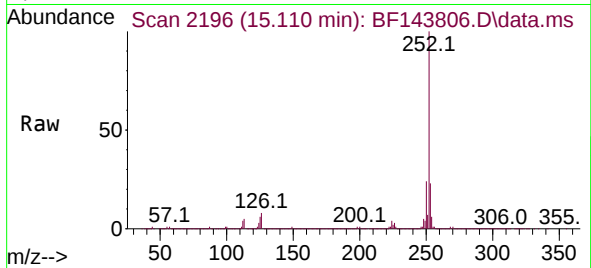
Tgt Ion:276 Resp: 353175
Ion Ratio Lower Upper
276 100
138 12.0 10.6 15.8
277 24.5 20.7 31.1





#88
Benzo(b)fluoranthene
Concen: 61.336 ng m
RT: 15.110 min Scan# 2195
Delta R.T. 0.006 min
Lab File: BF143806.D
Acq: 25 Sep 2025 16:21

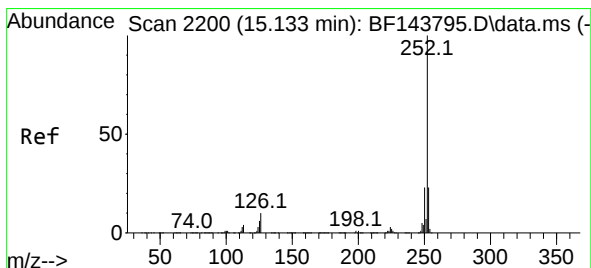
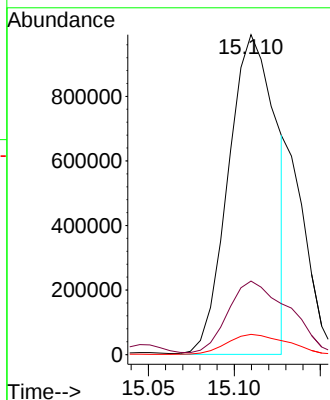
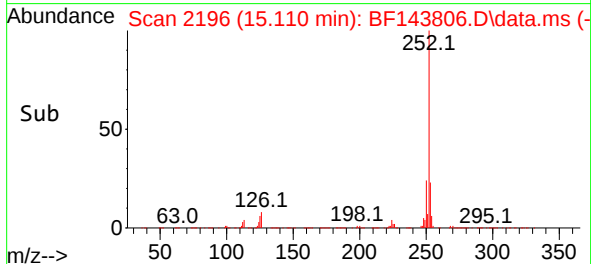
Instrument :
BNA_F
ClientSampleId :
RB22120



Tgt Ion:252 Resp: 1914276
Ion Ratio Lower Upper
252 100
253 23.0 17.8 26.8
125 6.3 4.4 6.6

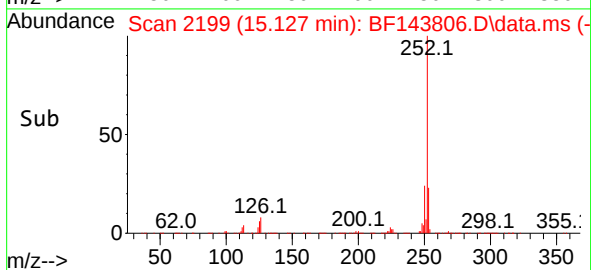
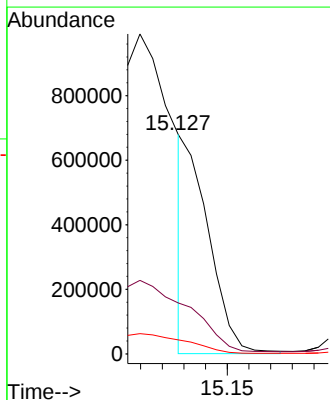
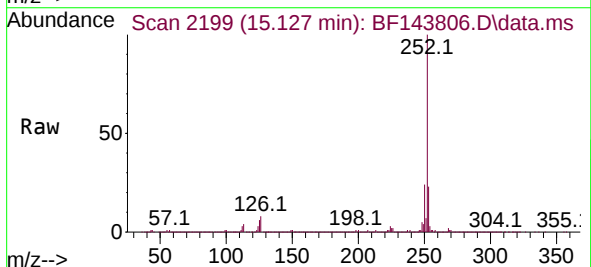
Manual Integrations
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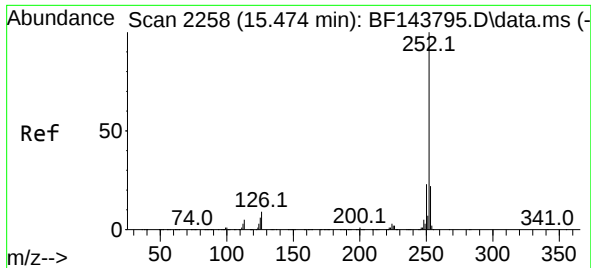
Reviewed By :Rahul Chavli 09/26/2025
Supervised By :Jagrut Upadhyay 09/26/2025



#89
Benzo(k)fluoranthene
Concen: 16.482 ng m
RT: 15.127 min Scan# 2199
Delta R.T. -0.012 min
Lab File: BF143806.D
Acq: 25 Sep 2025 16:21

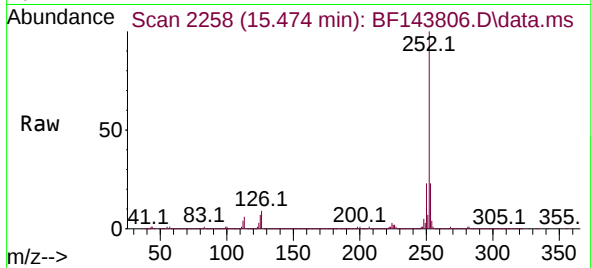
Tgt Ion:252 Resp: 516791
Ion Ratio Lower Upper
252 100
253 23.3 17.9 26.9
125 6.4 4.6 6.8





#90
Benzo(a)pyrene
Concen: 31.730 ng
RT: 15.474 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF143806.D
Acq: 25 Sep 2025 16:21

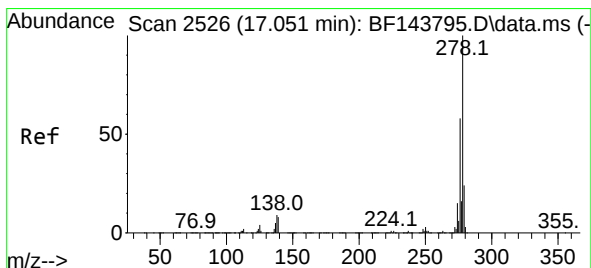
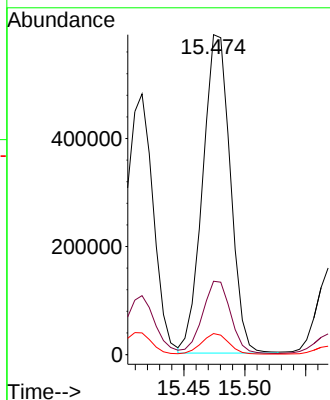
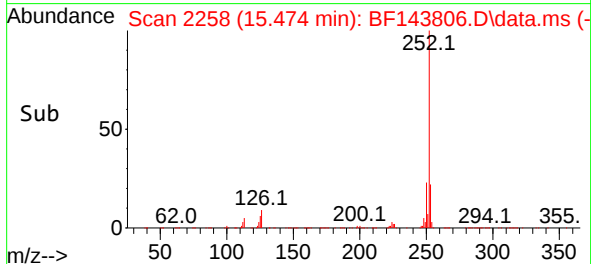
Instrument :
BNA_F
ClientSampleId :
RB22120



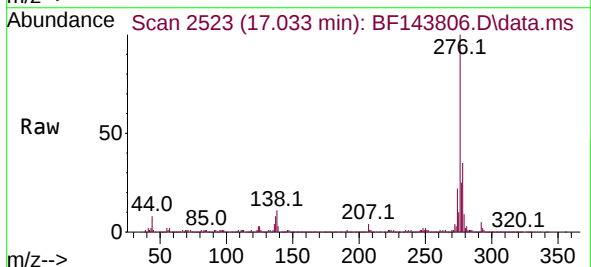
Tgt Ion:252 Resp: 93083
Ion Ratio Lower Upper
252 100
253 23.0 17.6 26.4
125 6.6 5.0 7.4

Manual Integrations
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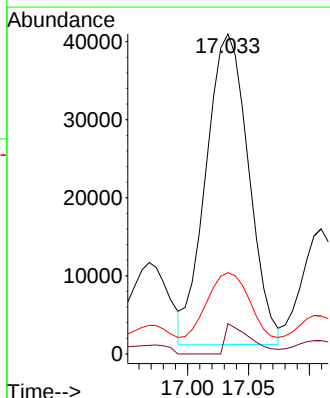
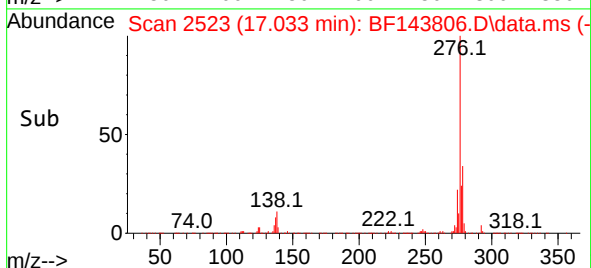
Reviewed By :Rahul Chavli 09/26/2025
Supervised By :Jagrut Upadhyay 09/26/2025

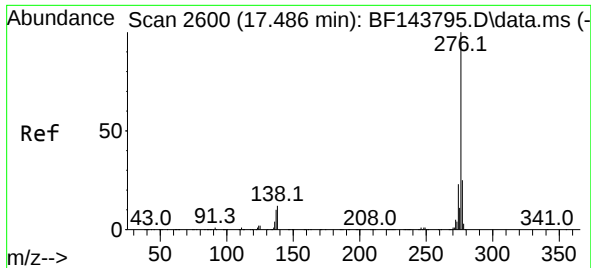


#91
Dibenzo(a,h)anthracene
Concen: 2.557 ng
RT: 17.033 min Scan# 2523
Delta R.T. -0.035 min
Lab File: BF143806.D
Acq: 25 Sep 2025 16:21



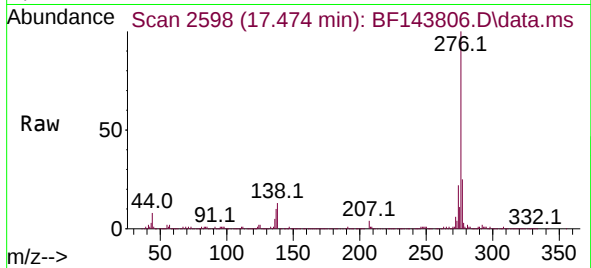
Tgt Ion:278 Resp: 97267
Ion Ratio Lower Upper
278 100
139 9.4 6.7 10.1
279 25.4 19.3 28.9





#92
 Benzo(g,h,i)perylene
 Concen: 7.226 ng
 RT: 17.474 min Scan# 2598
 Delta R.T. -0.029 min
 Lab File: BF143806.D
 Acq: 25 Sep 2025 16:21

Instrument :
 BNA_F
 ClientSampleId :
 RB22120



Tgt Ion:276 Resp: 264932
 Ion Ratio Lower Upper
 276 100
 277 24.6 19.6 29.4
 138 12.6 9.2 13.8

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 09/26/2025
 Supervised By :Jagrut Upadhyay 09/26/2025

