

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092525\
 Data File : BF143809.D
 Acq On : 25 Sep 2025 17:51
 Operator : RC/JU
 Sample : Q3188-02DL 10X
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RB22120DL

Quant Time: Sep 25 18:11:45 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

Manual Integrations
 APPROVED

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

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	125211	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	428763	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	192837	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	282899	20.000	ng	0.00
76) Chrysene-d12	14.057	240	429866	20.000	ng	0.00
86) Perylene-d12	15.533	264	627231	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	70707	9.175	ng	-0.01
7) Phenol-d6	6.493	99	86457	9.709	ng	-0.02
23) Nitrobenzene-d5	7.440	82	41609	5.940	ng	-0.01
42) 2,4,6-Tribromophenol	10.710	330	22634	7.927	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	92606	7.494	ng	0.00
79) Terphenyl-d14	12.998	244	126097	5.966	ng	0.00
Target Compounds						Qvalue
52) Acenaphthene	9.957	154	104166	10.233	ng	99
55) Dibenzofuran	10.128	168	81738	5.679	ng	99
58) Fluorene	10.469	166	144367	13.491	ng	98
71) Phenanthrene	11.433	178	876669	60.360	ng	99
72) Anthracene	11.486	178	91380	6.272	ng	98
73) Carbazole	11.639	167	33031	2.593	ng	98
75) Fluoranthene	12.627	202	914815	62.625	ng	99
78) Pyrene	12.857	202	672872	31.838	ng	98
81) Benzo(a)anthracene	14.045	228	258106	11.177	ng	98
83) Chrysene	14.080	228	178503	8.542	ng	98
88) Benzo(b)fluoranthene	15.098	252	232012m	7.264	ng	
89) Benzo(k)fluoranthene	15.116	252	69096m	2.153	ng	
90) Benzo(a)pyrene	15.468	252	109791	3.657	ng	# 99

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

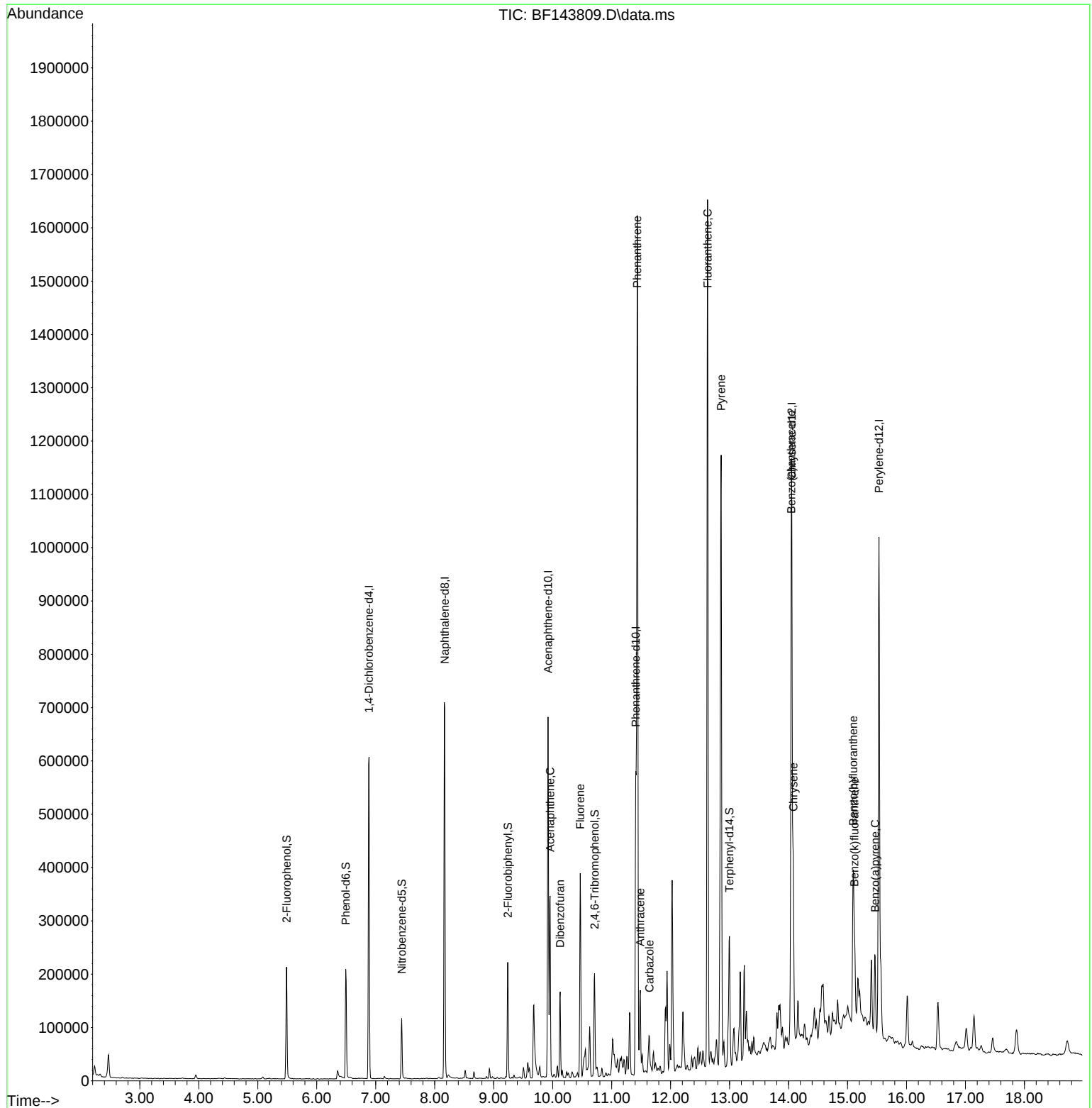
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092525\
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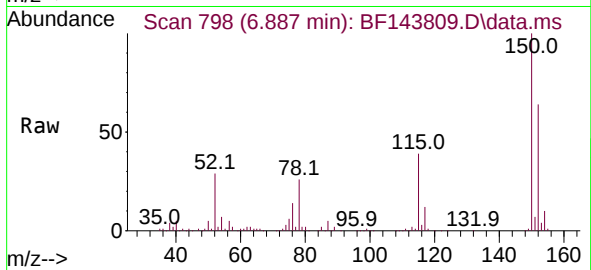
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Supervised By :Jagrut Upadhyay 09/26/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 798
Delta R.T. -0.000 min
Lab File: BF143809.D
Acq: 25 Sep 2025 17:51

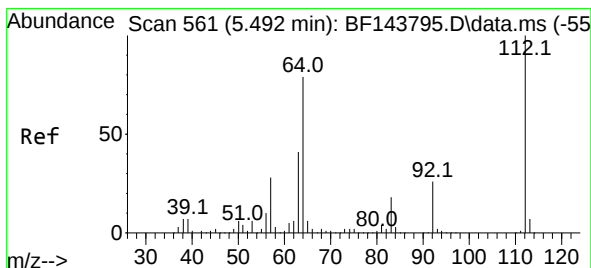
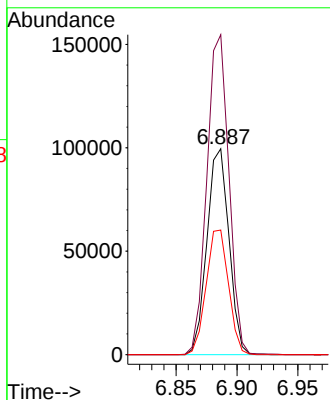
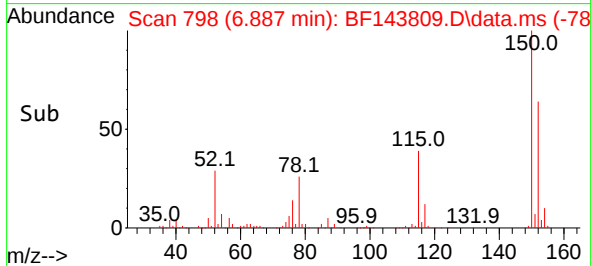
Instrument :
BNA_F
ClientSampleId :
RB22120DL



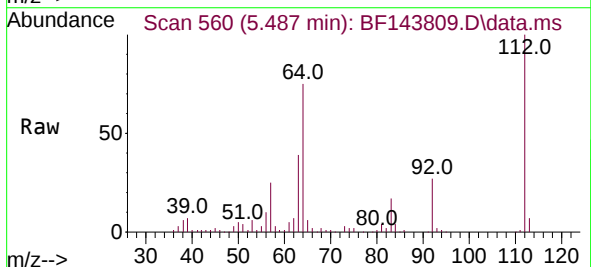
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Ion Ratio Lower Upper
152 100
150 155.4 129.6 194.4
115 60.5 49.0 73.4

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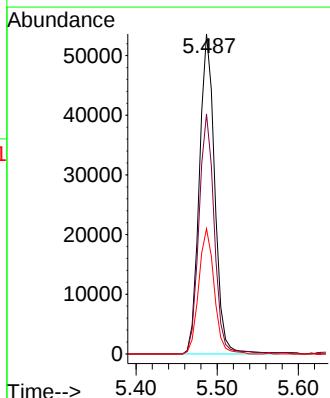
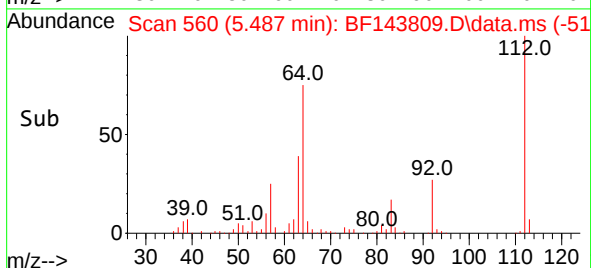
Reviewed By :Rahul Chavli 09/26/2025
Supervised By :Jagrut Upadhyay 09/26/2025



#5
2-Fluorophenol
Concen: 9.175 ng
RT: 5.487 min Scan# 560
Delta R.T. -0.011 min
Lab File: BF143809.D
Acq: 25 Sep 2025 17:51



Tgt Ion:112 Resp: 70707
Ion Ratio Lower Upper
112 100
64 75.0 63.0 94.4
63 39.1 32.6 49.0





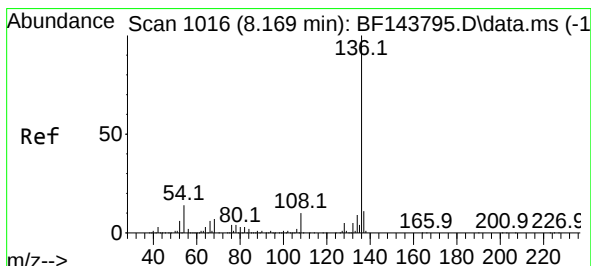
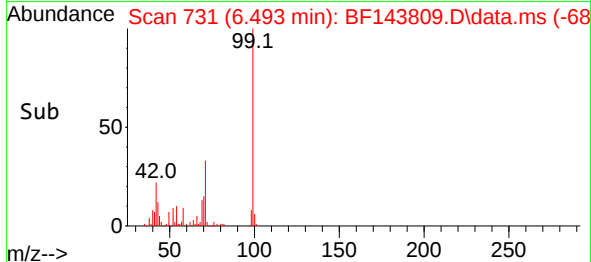
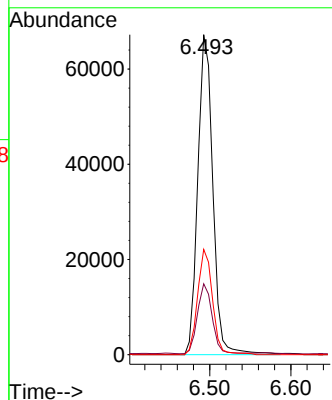
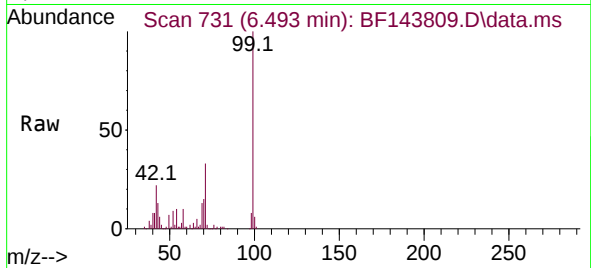
#7
Phenol-d6
Concen: 9.709 ng
RT: 6.493 min Scan# 731
Delta R.T. -0.017 min
Lab File: BF143809.D
Acq: 25 Sep 2025 17:51

Instrument :
BNA_F
ClientSampleId :
RB22120DL

Tgt Ion: 99 Resp: 86452
Ion Ratio Lower Upper
99 100
42 22.1 18.6 28.0
71 32.9 27.0 40.4

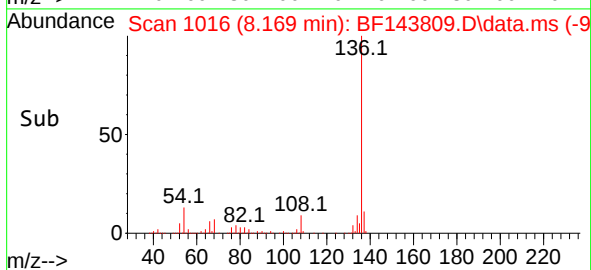
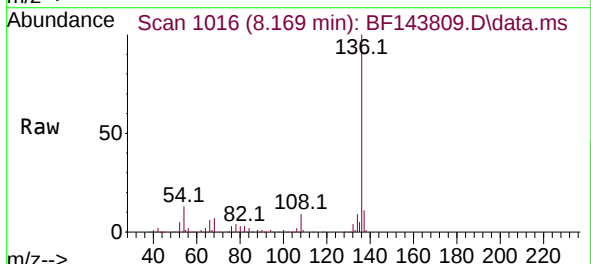
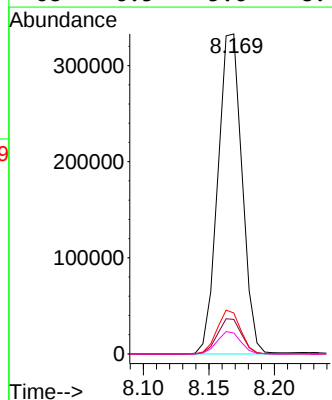
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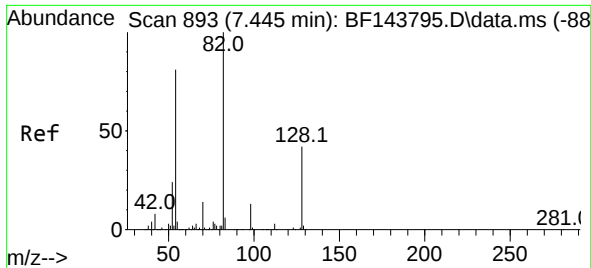
Reviewed By :Rahul Chavli 09/26/2025
Supervised By :Jagrut Upadhyay 09/26/2025



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1016
Delta R.T. -0.000 min
Lab File: BF143809.D
Acq: 25 Sep 2025 17:51

Tgt Ion:136 Resp: 428763
Ion Ratio Lower Upper
136 100
137 10.8 9.0 13.4
54 12.8 11.2 16.8
68 6.5 5.6 8.4





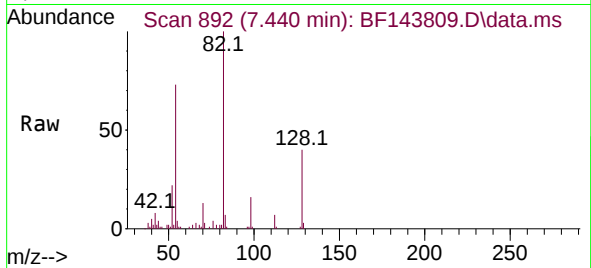
#23
Nitrobenzene-d5
Concen: 5.940 ng
RT: 7.440 min Scan# 893
Delta R.T. -0.011 min
Lab File: BF143809.D
Acq: 25 Sep 2025 17:51

Instrument :

BNA_F

ClientSampleId :

RB22120DL

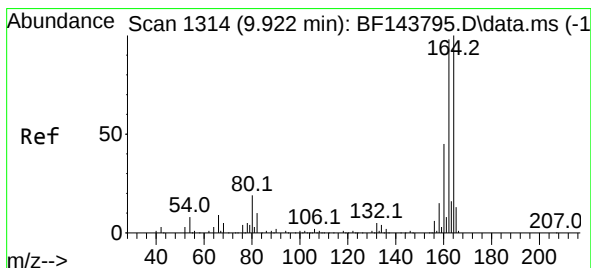
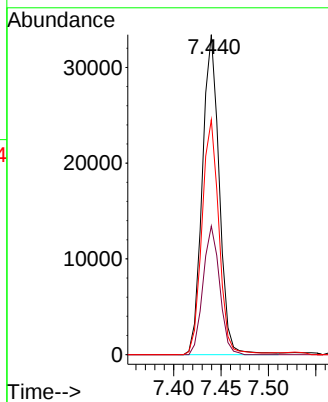
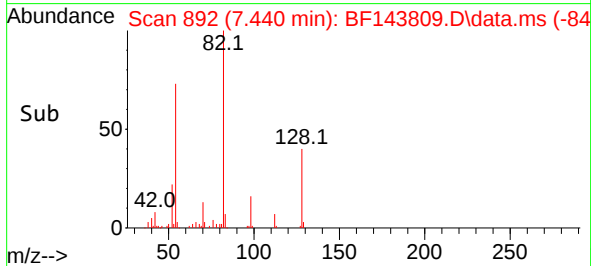


Tgt Ion: 82 Resp: 41609
Ion Ratio Lower Upper
82 100
128 40.2 33.3 49.9
54 73.4 64.2 96.4

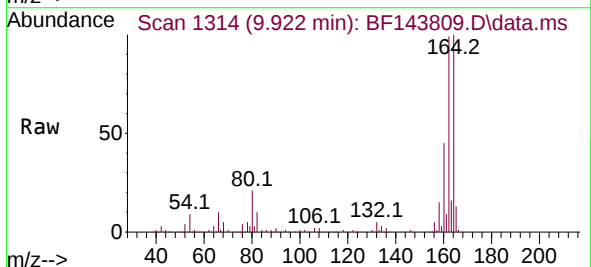
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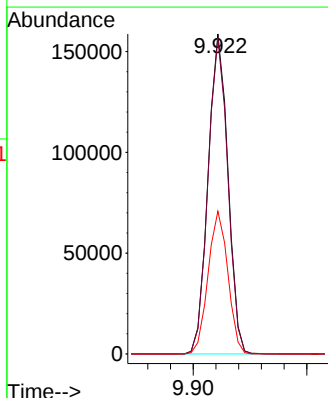
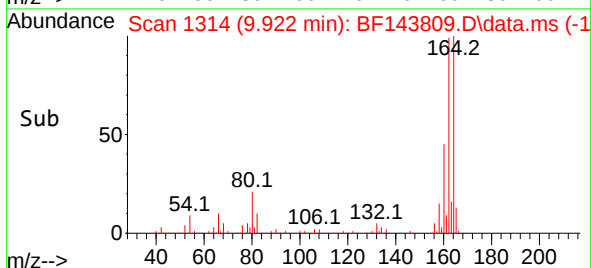
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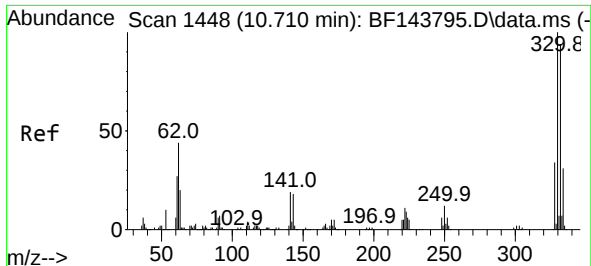


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1314
Delta R.T. -0.006 min
Lab File: BF143809.D
Acq: 25 Sep 2025 17:51



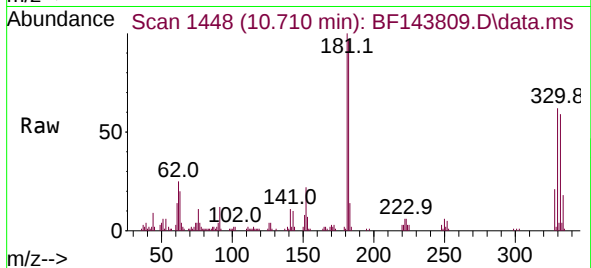
Tgt Ion:164 Resp: 192837
Ion Ratio Lower Upper
164 100
162 98.6 78.8 118.2
160 44.6 35.8 53.6





#42
2,4,6-Tribromophenol
Concen: 7.927 ng
RT: 10.710 min Scan# 1448
Delta R.T. -0.006 min
Lab File: BF143809.D
Acq: 25 Sep 2025 17:51

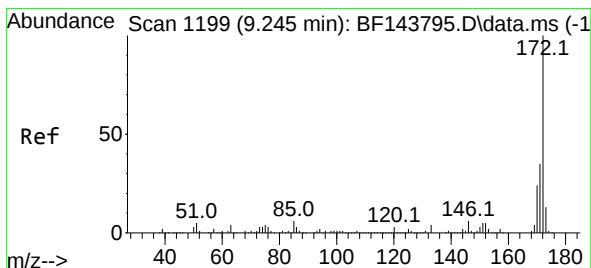
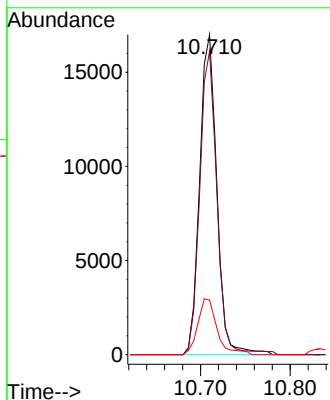
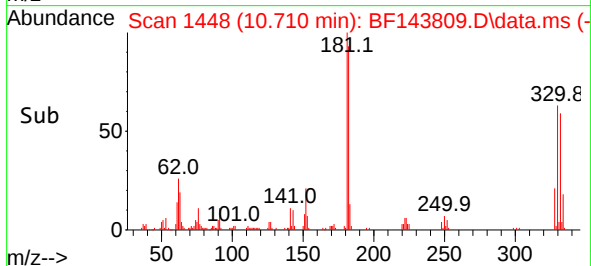
Instrument :
BNA_F
ClientSampleId :
RB22120DL



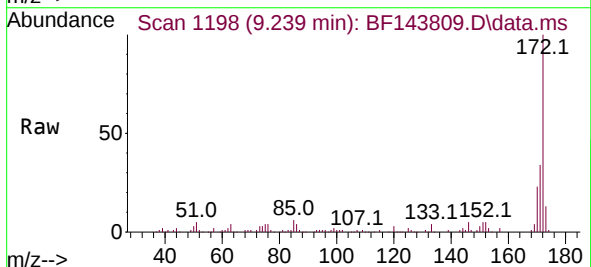
Tgt Ion: 330 Resp: 22634
Ion Ratio Lower Upper
330 100
332 94.2 74.7 112.1
141 19.5 14.3 21.5

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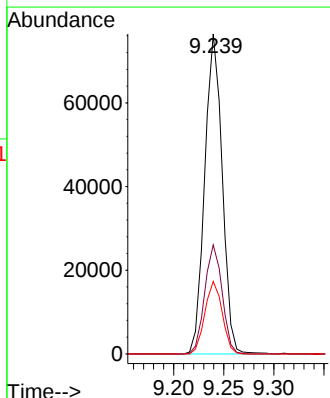
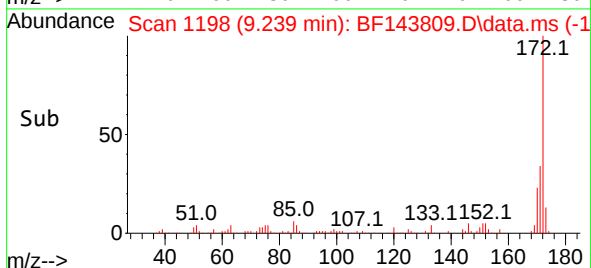
Reviewed By :Rahul Chavli 09/26/2025
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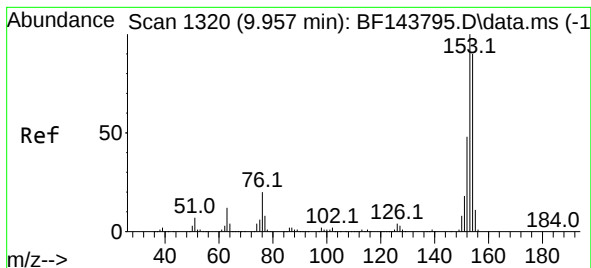


#45
2-Fluorobiphenyl
Concen: 7.494 ng
RT: 9.239 min Scan# 1198
Delta R.T. -0.006 min
Lab File: BF143809.D
Acq: 25 Sep 2025 17:51



Tgt Ion: 172 Resp: 92606
Ion Ratio Lower Upper
172 100
171 34.1 27.9 41.9
170 22.6 19.1 28.7





#52

Acenaphthene

Concen: 10.233 ng

RT: 9.957 min Scan# 1320

Delta R.T. -0.006 min

Lab File: BF143809.D

Acq: 25 Sep 2025 17:51

Instrument :

BNA_F

ClientSampleId :

RB22120DL

Tgt Ion:154 Resp: 104166

Ion Ratio Lower Upper

154 100

153 112.5 88.7 133.1

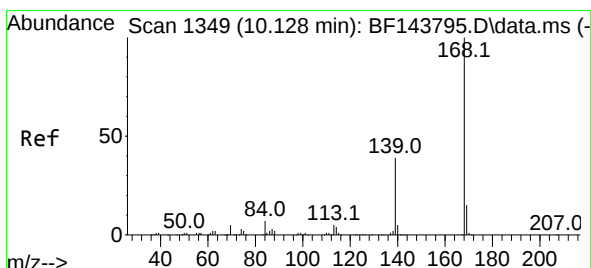
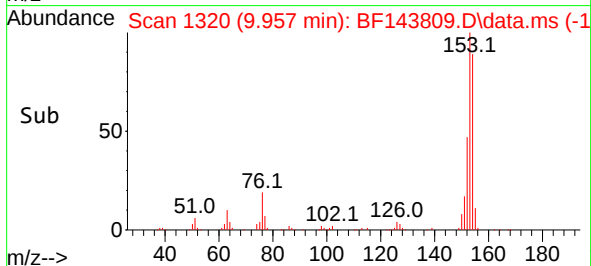
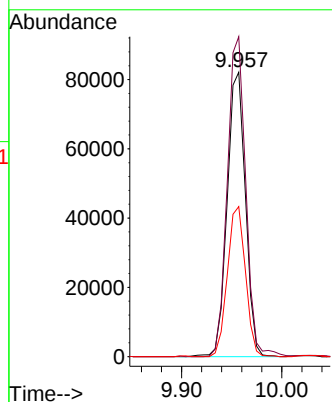
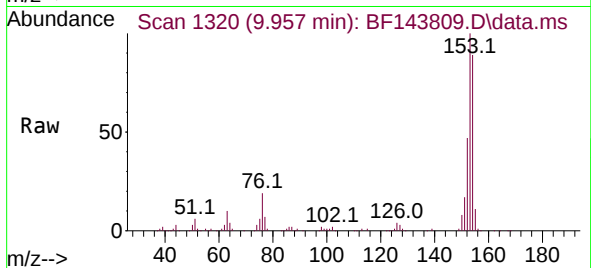
152 52.8 42.7 64.1

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#55

Dibenzofuran

Concen: 5.679 ng

RT: 10.128 min Scan# 1349

Delta R.T. -0.006 min

Lab File: BF143809.D

Acq: 25 Sep 2025 17:51

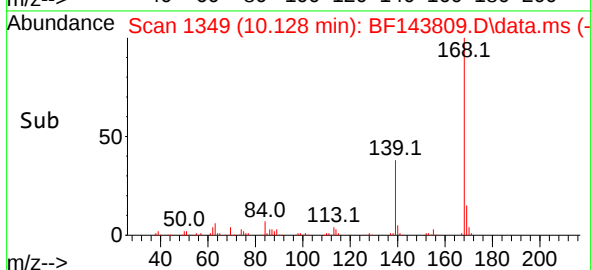
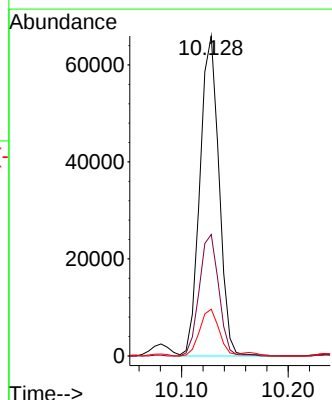
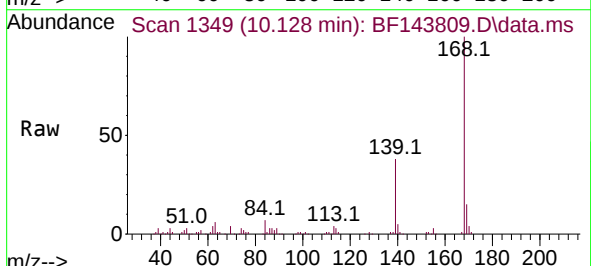
Tgt Ion:168 Resp: 81738

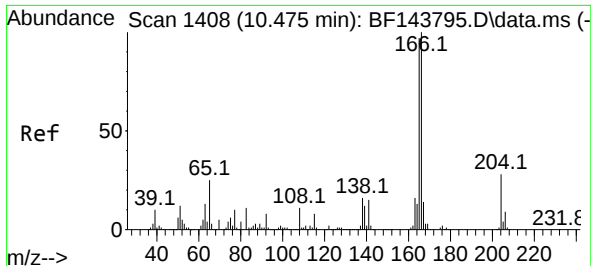
Ion Ratio Lower Upper

168 100

139 37.9 31.0 46.6

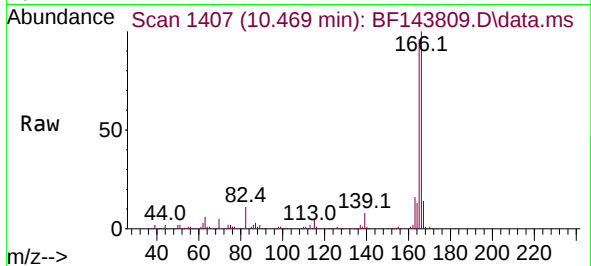
169 14.6 11.9 17.9





#58
Fluorene
Concen: 13.491 ng
RT: 10.469 min Scan# 1408
Delta R.T. -0.006 min
Lab File: BF143809.D
Acq: 25 Sep 2025 17:51

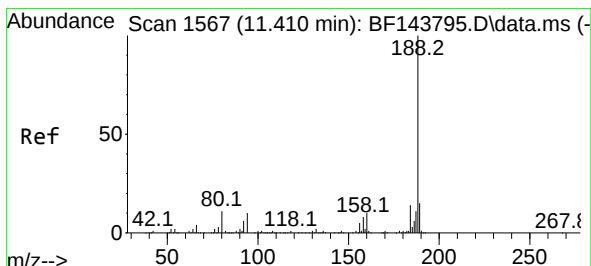
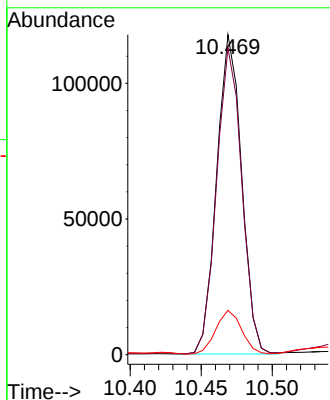
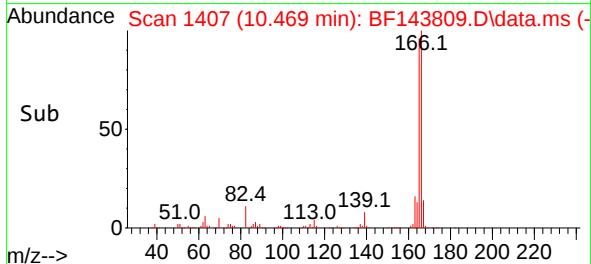
Instrument :
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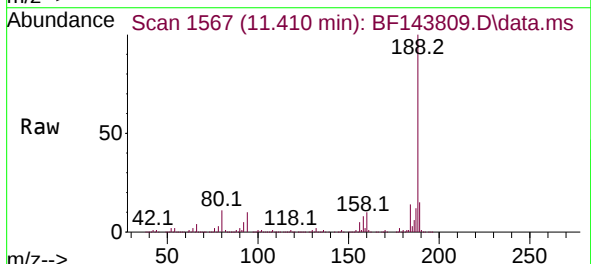
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Ion Ratio Lower Upper
166 100
165 95.8 78.0 117.0
167 13.8 10.9 16.3

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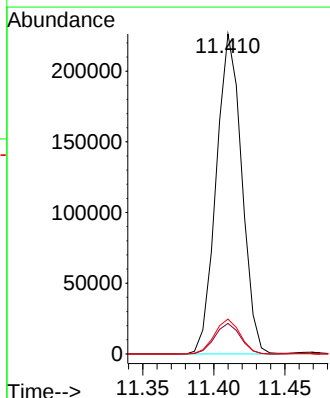
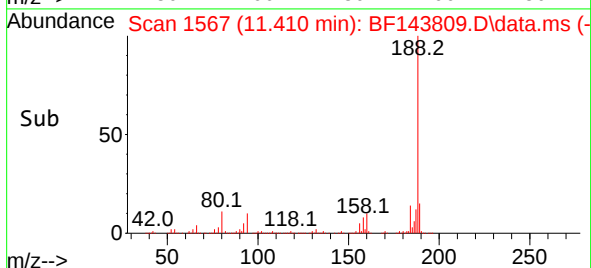
Reviewed By :Rahul Chavli 09/26/2025
Supervised By :Jagrut Upadhyay 09/26/2025

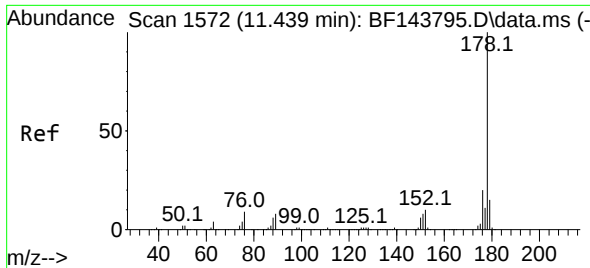


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1567
Delta R.T. -0.006 min
Lab File: BF143809.D
Acq: 25 Sep 2025 17:51



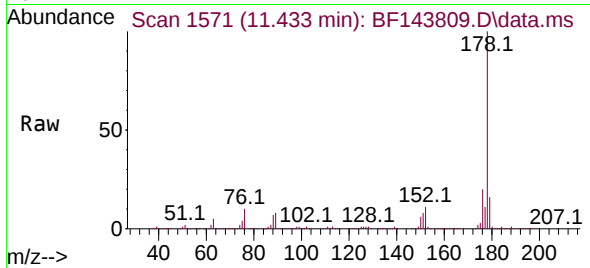
Tgt Ion:188 Resp: 282899
Ion Ratio Lower Upper
188 100
94 9.5 8.2 12.2
80 10.9 8.6 12.8





#71
Phenanthrene
Concen: 60.360 ng
RT: 11.433 min Scan# 1143
Delta R.T. -0.006 min
Lab File: BF143809.D
Acq: 25 Sep 2025 17:51

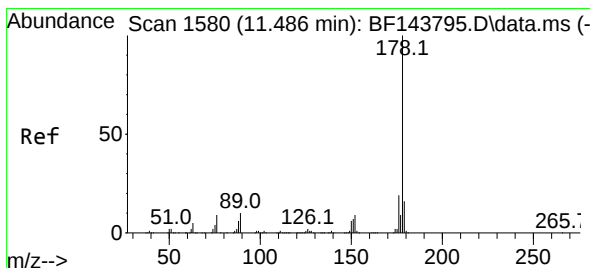
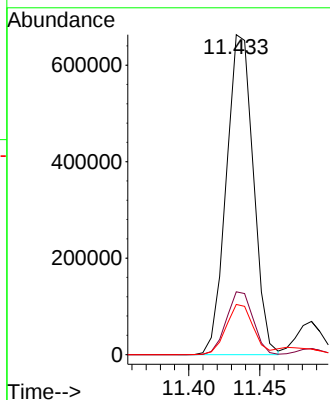
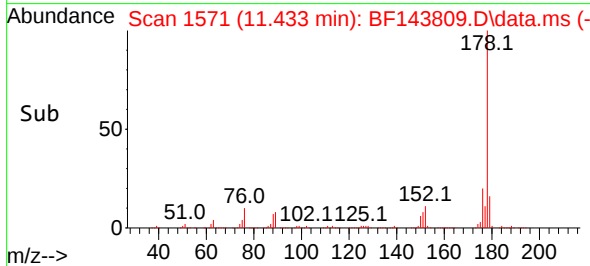
Instrument :
BNA_F
ClientSampleId :
RB22120DL



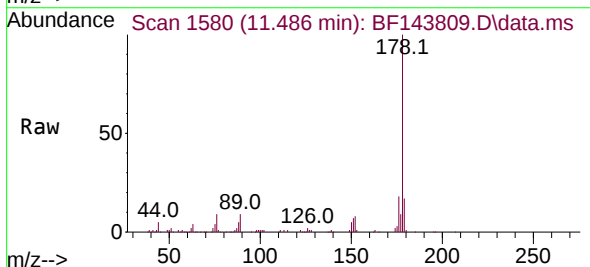
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Ion Ratio Lower Upper
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176 19.6 15.6 23.4
179 15.7 12.2 18.4

Manual Integrations
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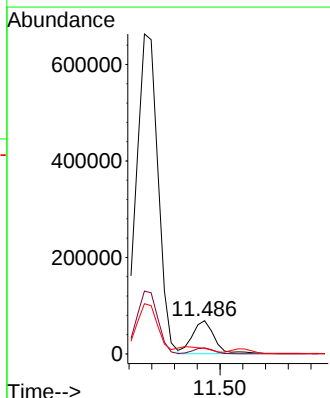
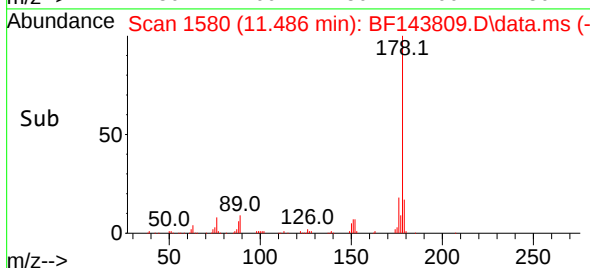
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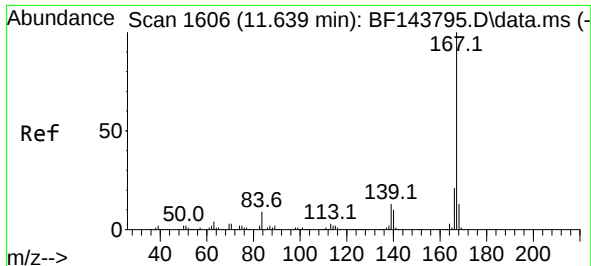


#72
Anthracene
Concen: 6.272 ng
RT: 11.486 min Scan# 1580
Delta R.T. -0.006 min
Lab File: BF143809.D
Acq: 25 Sep 2025 17:51



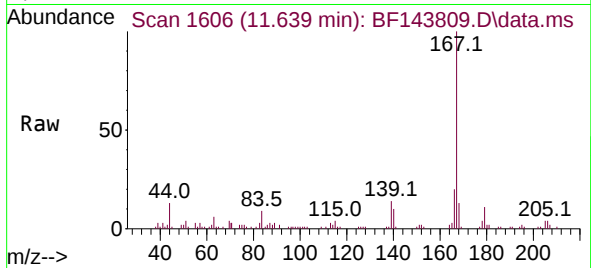
Tgt Ion:178 Resp: 91380
Ion Ratio Lower Upper
178 100
176 18.4 15.3 22.9
179 16.8 12.8 19.2





#73
 Carbazole
 Concen: 2.593 ng
 RT: 11.639 min Scan# 1606
 Delta R.T. -0.006 min
 Lab File: BF143809.D
 Acq: 25 Sep 2025 17:51

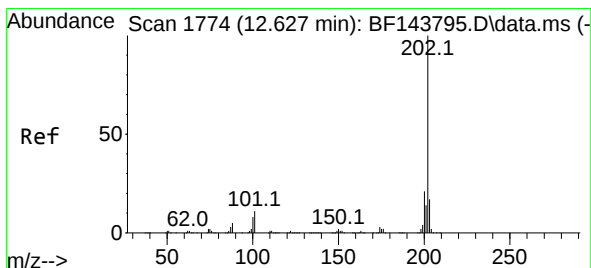
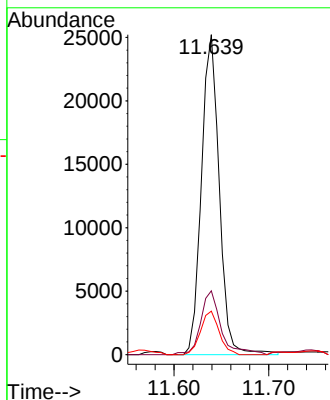
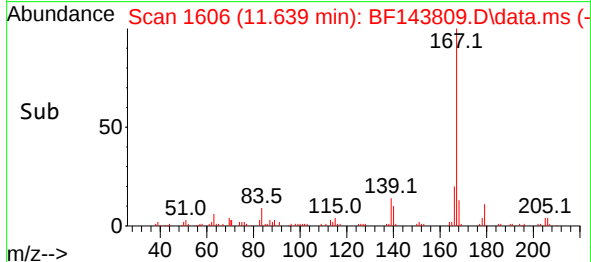
Instrument :
 BNA_F
 ClientSampleId :
 RB22120DL



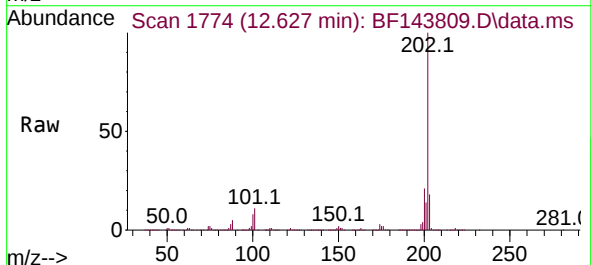
Tgt Ion:167 Resp: 33031
 Ion Ratio Lower Upper
 167 100
 166 19.9 17.0 25.4
 139 13.6 10.6 15.8

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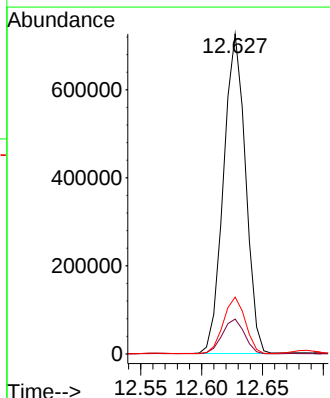
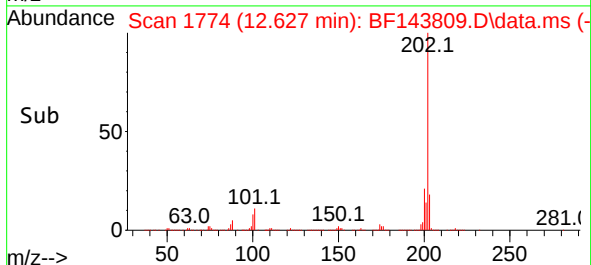
Reviewed By :Rahul Chavli 09/26/2025
 Supervised By :Jagrut Upadhyay 09/26/2025

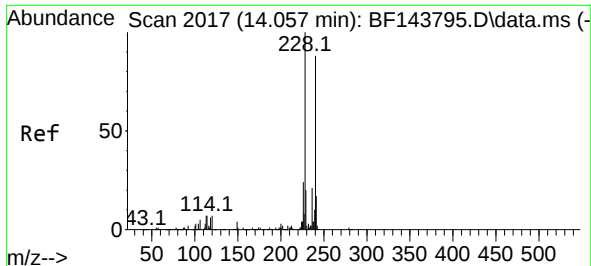


#75
 Fluoranthene
 Concen: 62.625 ng
 RT: 12.627 min Scan# 1774
 Delta R.T. 0.000 min
 Lab File: BF143809.D
 Acq: 25 Sep 2025 17:51



Tgt Ion:202 Resp: 914815
 Ion Ratio Lower Upper
 202 100
 101 10.9 0.0 31.1
 203 17.7 0.0 37.4





#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2017
Delta R.T. -0.006 min
Lab File: BF143809.D
Acq: 25 Sep 2025 17:51

Instrument :

BNA_F

ClientSampleId :

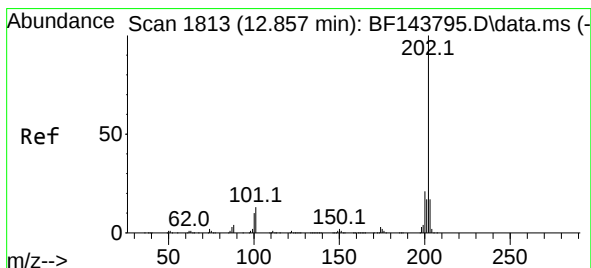
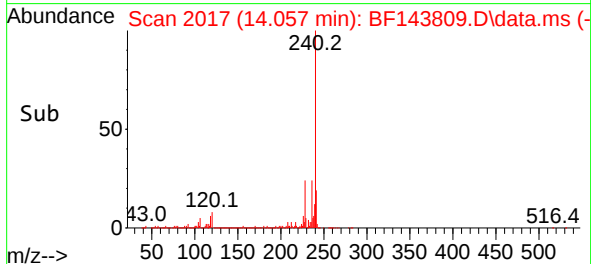
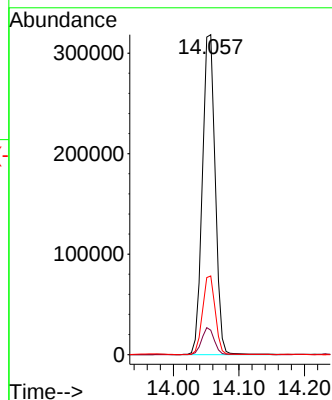
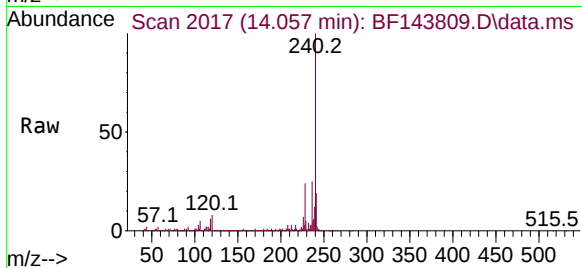
RB22120DL

Tgt Ion:240 Resp: 429866
Ion Ratio Lower Upper
240 100
120 7.6 6.2 9.4
236 24.6 19.4 29.2

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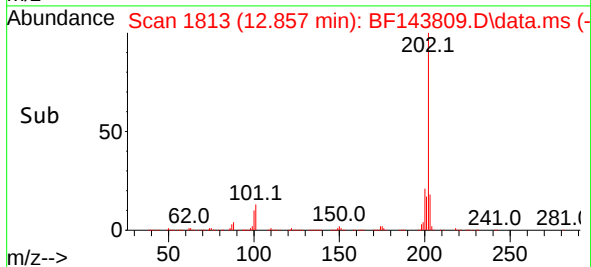
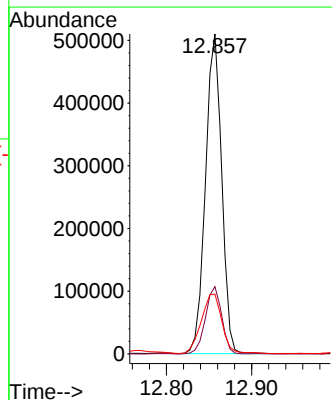
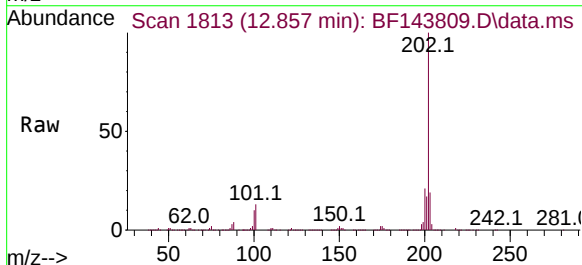
APPROVED

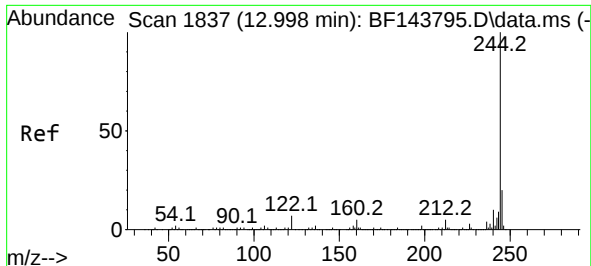
Reviewed By :Rahul Chavli 09/26/2025
Supervised By :Jagrut Upadhyay 09/26/2025



#78
Pyrene
Concen: 31.838 ng
RT: 12.857 min Scan# 1813
Delta R.T. 0.000 min
Lab File: BF143809.D
Acq: 25 Sep 2025 17:51

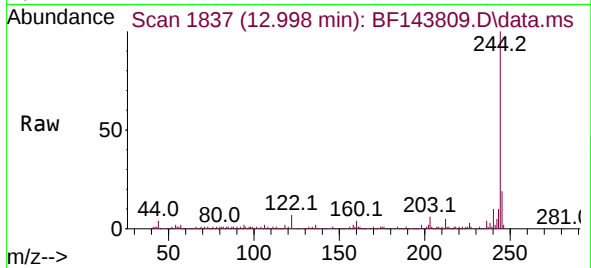
Tgt Ion:202 Resp: 672872
Ion Ratio Lower Upper
202 100
200 21.0 17.0 25.4
203 18.7 13.9 20.9





#79
 Terphenyl-d14
 Concen: 5.966 ng
 RT: 12.998 min Scan# 1837
 Delta R.T. -0.006 min
 Lab File: BF143809.D
 Acq: 25 Sep 2025 17:51

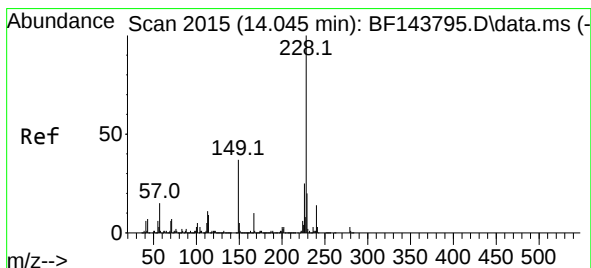
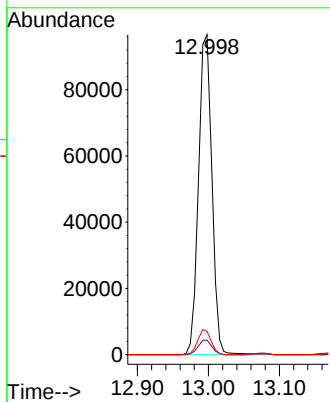
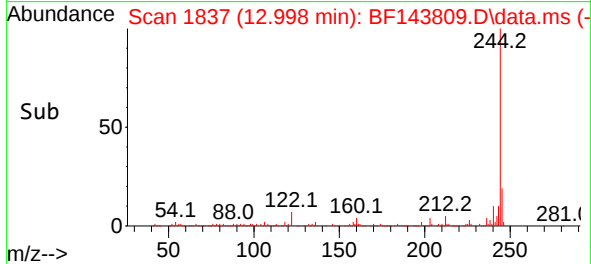
Instrument :
 BNA_F
 ClientSampleId :
 RB22120DL



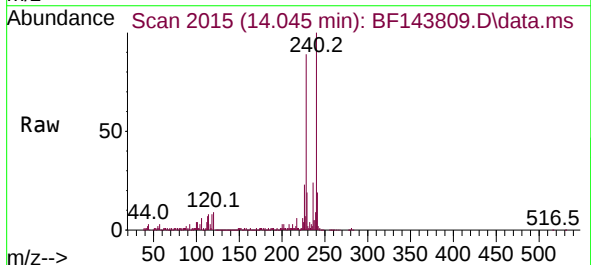
Tgt Ion:244 Resp: 126097
 Ion Ratio Lower Upper
 244 100
 212 4.5 3.9 5.9
 122 7.3 5.6 8.4

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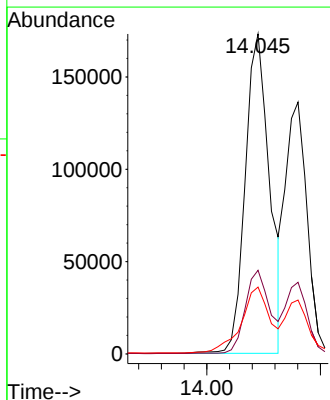
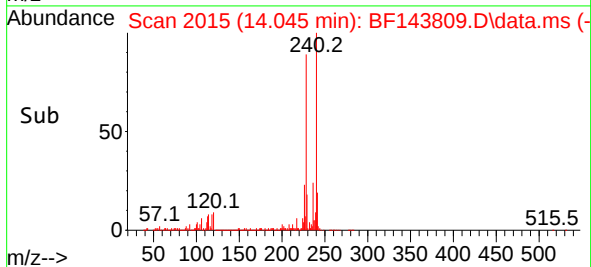
Reviewed By :Rahul Chavli 09/26/2025
 Supervised By :Jagrut Upadhyay 09/26/2025

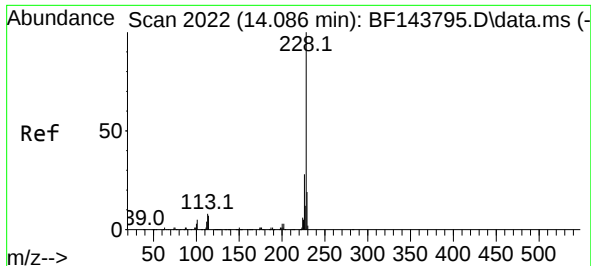


#81
 Benzo(a)anthracene
 Concen: 11.177 ng
 RT: 14.045 min Scan# 2015
 Delta R.T. -0.006 min
 Lab File: BF143809.D
 Acq: 25 Sep 2025 17:51



Tgt Ion:228 Resp: 258106
 Ion Ratio Lower Upper
 228 100
 226 26.1 20.2 30.2
 229 20.9 16.1 24.1





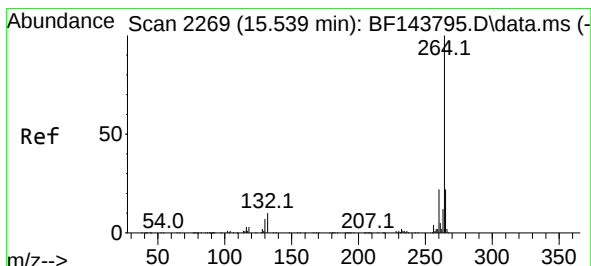
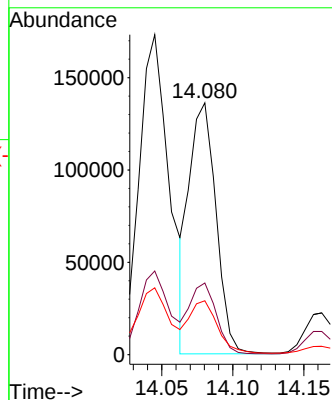
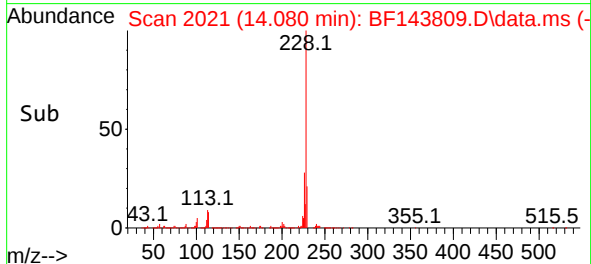
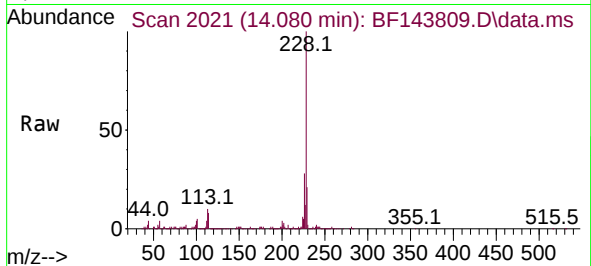
#83
Chrysene
Concen: 8.542 ng
RT: 14.080 min Scan# 20
Delta R.T. -0.006 min
Lab File: BF143809.D
Acq: 25 Sep 2025 17:51

Instrument :
BNA_F
ClientSampleId :
RB22120DL

Tgt Ion:228 Resp: 178503
Ion Ratio Lower Upper
228 100
226 28.4 22.6 33.8
229 21.4 15.6 23.4

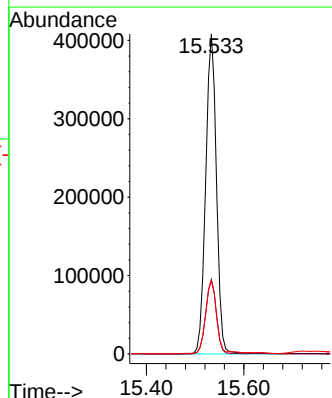
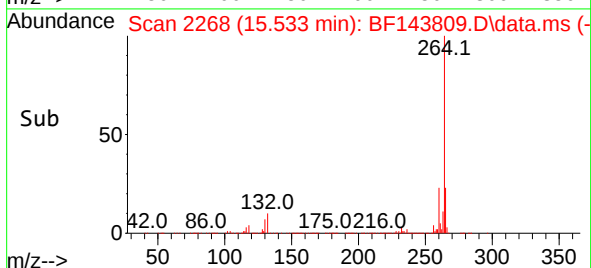
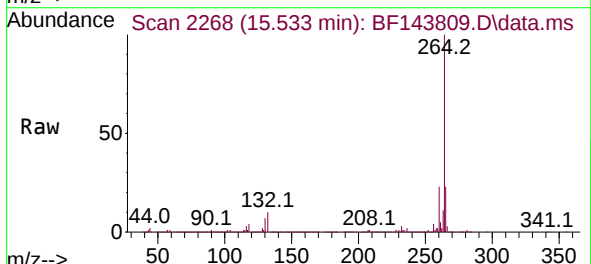
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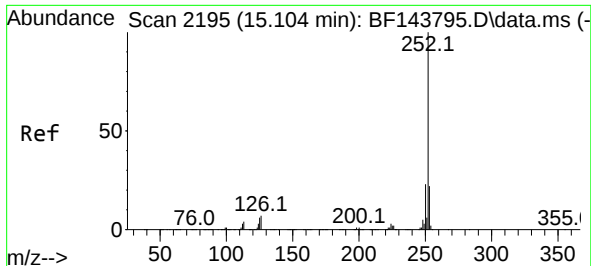
Reviewed By :Rahul Chavli 09/26/2025
Supervised By :Jagrut Upadhyay 09/26/2025



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.533 min Scan# 2268
Delta R.T. -0.006 min
Lab File: BF143809.D
Acq: 25 Sep 2025 17:51

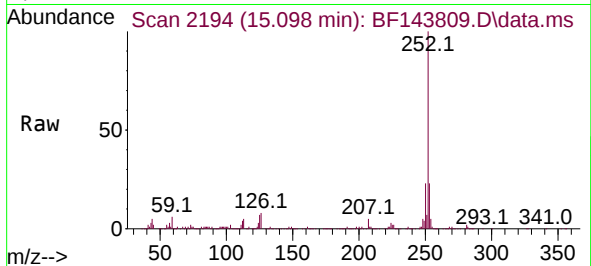
Tgt Ion:264 Resp: 627231
Ion Ratio Lower Upper
264 100
260 23.3 17.9 26.9
265 22.9 17.7 26.5





#88
Benzo(b)fluoranthene
Concen: 7.264 ng m
RT: 15.098 min Scan# 2194
Delta R.T. -0.006 min
Lab File: BF143809.D
Acq: 25 Sep 2025 17:51

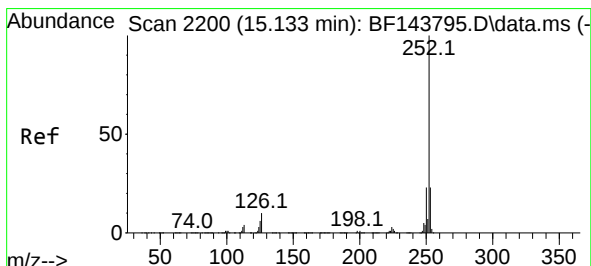
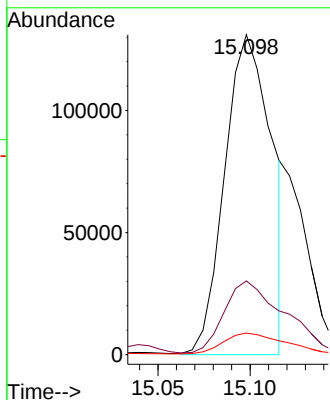
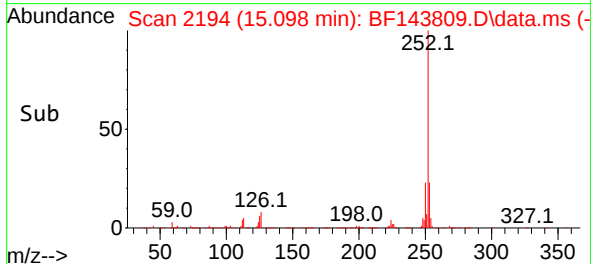
Instrument :
BNA_F
ClientSampleId :
RB22120DL



Tgt Ion:252 Resp: 232012
Ion Ratio Lower Upper
252 100
253 23.0 17.8 26.8
125 6.7 4.4 6.6

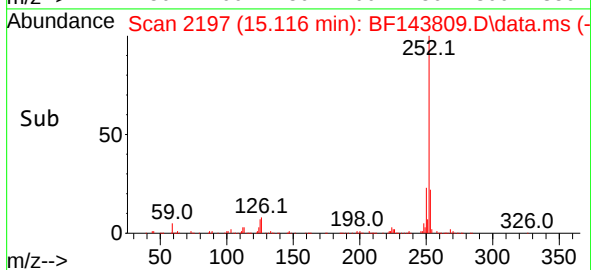
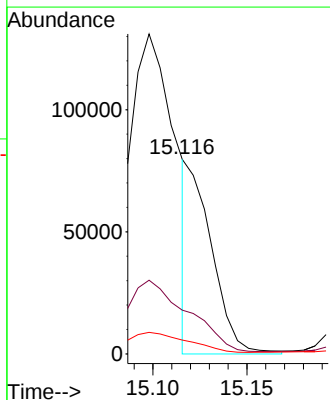
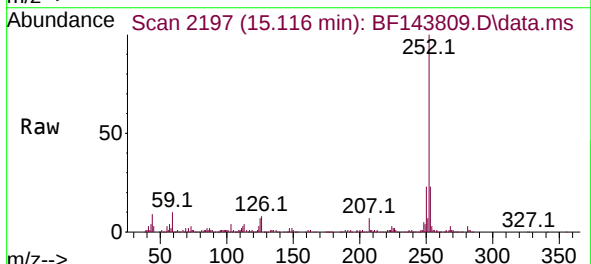
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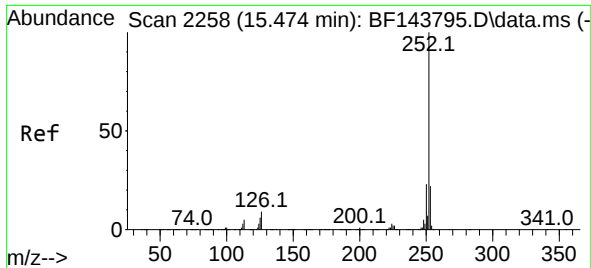
Reviewed By :Rahul Chavli 09/26/2025
Supervised By :Jagrut Upadhyay 09/26/2025



#89
Benzo(k)fluoranthene
Concen: 2.153 ng m
RT: 15.116 min Scan# 2197
Delta R.T. -0.023 min
Lab File: BF143809.D
Acq: 25 Sep 2025 17:51

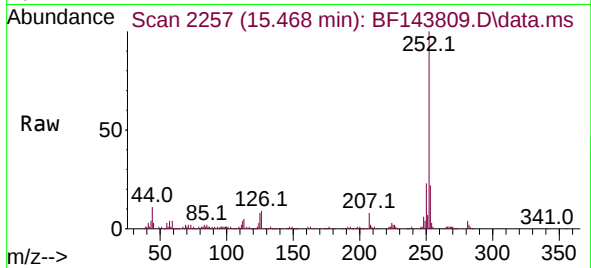
Tgt Ion:252 Resp: 69096
Ion Ratio Lower Upper
252 100
253 22.5 17.9 26.9
125 7.1 4.6 6.8





#90
 Benzo(a)pyrene
 Concen: 3.657 ng
 RT: 15.468 min Scan# 21
 Delta R.T. -0.012 min
 Lab File: BF143809.D
 Acq: 25 Sep 2025 17:51

Instrument :
 BNA_F
 ClientSampleId :
 RB22120DL



Tgt Ion:252 Resp: 109793
 Ion Ratio Lower Upper
 252 100
 253 21.8 17.6 26.4
 125 7.5 5.0 7.4

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

