

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100825\
 Data File : BF143906.D
 Acq On : 08 Oct 2025 20:32
 Operator : RC/JU
 Sample : Q3307-16 5X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 S-35(0-0.5)

Manual Integrations
 APPROVED

Reviewed By :Rahul
 Chavli

Quant Time: Oct 09 01:49:57 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF100625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 06 15:29:47 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	117054	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	416342	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	212448	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	316060	20.000	ng	0.00
76) Chrysene-d12	14.063	240	287326	20.000	ng	0.00
86) Perylene-d12	15.539	264	234519	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	137250	18.620	ng	-0.01
7) Phenol-d6	6.492	99	163721	18.634	ng	-0.02
23) Nitrobenzene-d5	7.439	82	92338	13.474	ng	-0.02
42) 2,4,6-Tribromophenol	10.710	330	30574	14.449	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	194121	14.499	ng	-0.01
79) Terphenyl-d14	13.004	244	160456	9.544	ng	0.00
Target Compounds						
						Qvalue
37) 2-Methylnaphthalene	8.875	142	69226	5.487	ng	100
38) 1-Methylnaphthalene	8.975	142	105826	8.648	ng	98
52) Acenaphthene	9.957	154	39922	3.695	ng	# 80
58) Fluorene	10.475	166	58562	5.089	ng	# 89
71) Phenanthrene	11.439	178	375911	24.533	ng	99
72) Anthracene	11.486	178	59851m	3.866	ng	
75) Fluoranthene	12.633	202	484654	30.622	ng	99
78) Pyrene	12.863	202	473064	19.749	ng	98
81) Benzo(a)anthracene	14.051	228	282718	15.036	ng	96
83) Chrysene	14.086	228	228604	13.136	ng	96
84) Bis(2-ethylhexyl)phtha...	14.039	149	48563	5.179	ng	98
87) Indeno(1,2,3-cd)pyrene	17.027	276	83123	5.784	ng	96
88) Benzo(b)fluoranthene	15.110	252	233026m	17.298	ng	
89) Benzo(k)fluoranthene	15.121	252	92897m	7.452	ng	
90) Benzo(a)pyrene	15.474	252	164320	14.067	ng	# 95
91) Dibenzo(a,h)anthracene	17.039	278	23221	2.009	ng	# 88
92) Benzo(g,h,i)perylene	17.480	276	85970	7.439	ng	# 95

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

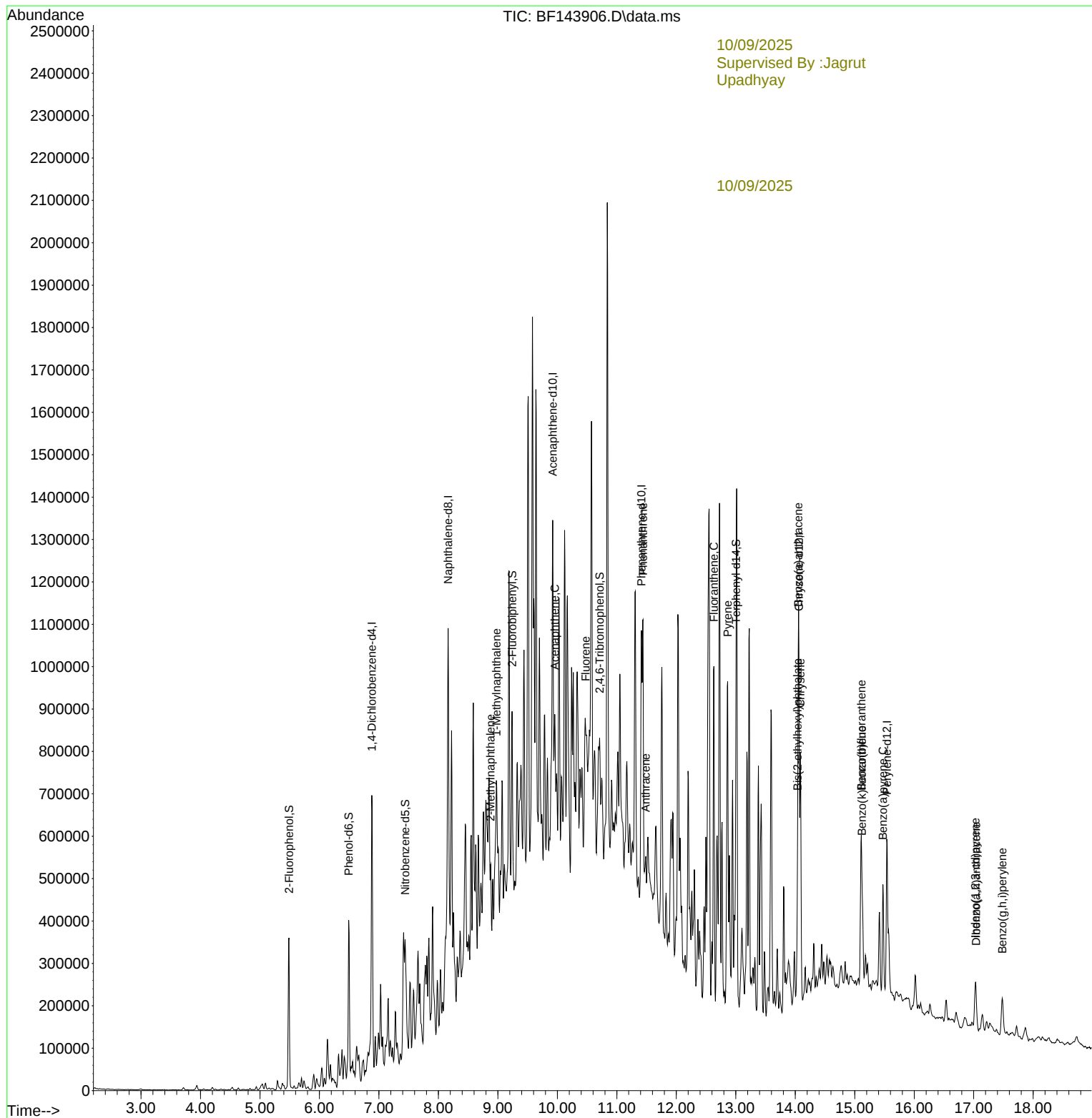
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Data File : BF143906.D
Acq On : 08 Oct 2025 20:32
Operator : RC/JU
Sample : Q3307-16 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

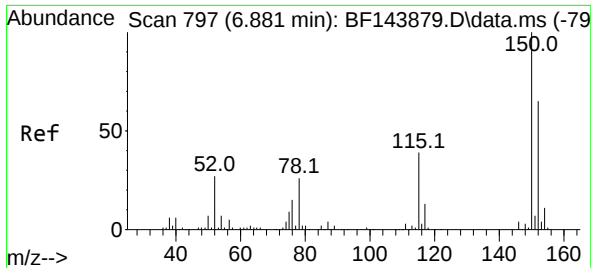
Instrument :
BNA_F
ClientSampleId :
S-35(0-0.5)

Quant Time: Oct 09 01:49:57 2025
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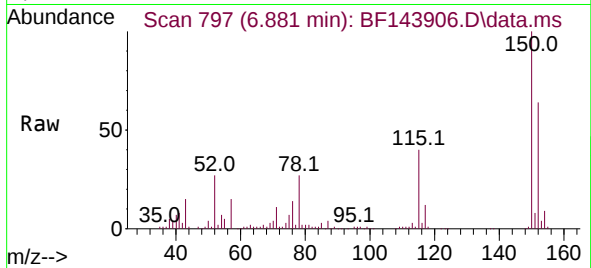
Reviewed By :Rahul
Chavli





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 797
Delta R.T. -0.005 min
Lab File: BF143906.D
Acq: 08 Oct 2025 20:32

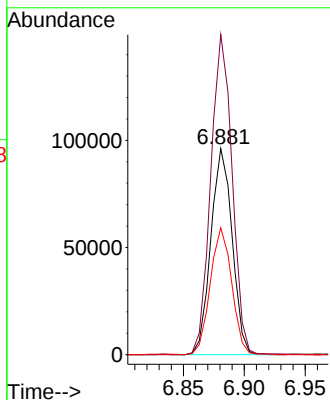
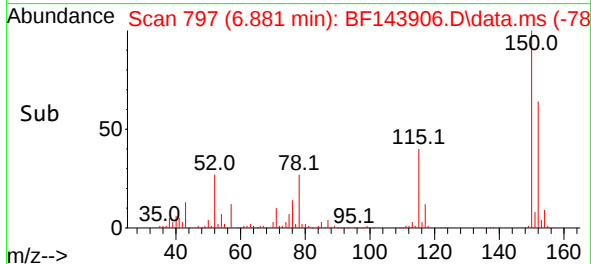
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BNA_F
ClientSampleId :
S-35(0-0.5)



Tgt Ion:152 Resp: 117054
Ion Ratio Lower Upper
152 100
150 155.3 124.4 186.6
115 61.6 48.1 72.1

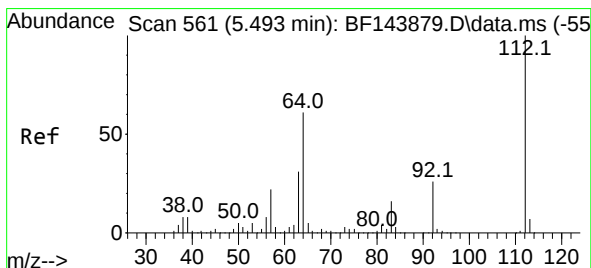
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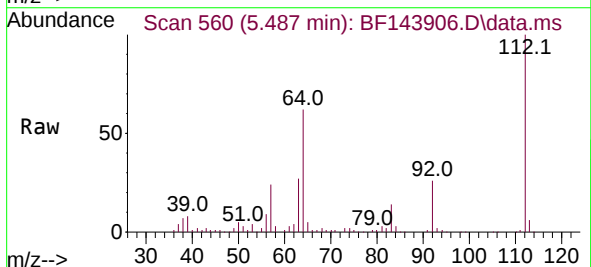


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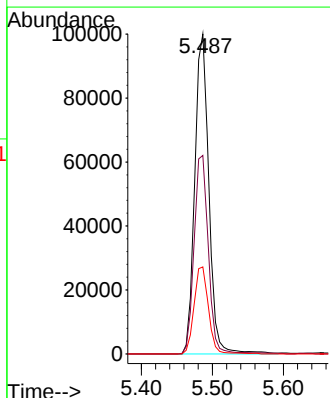
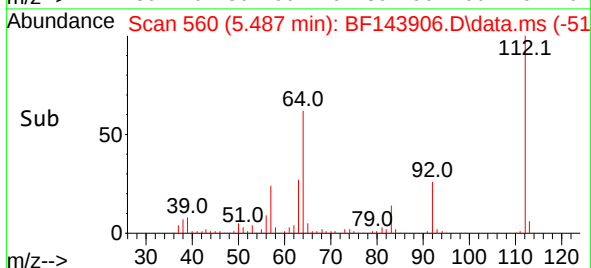
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#5
2-Fluorophenol
Concen: 18.620 ng
RT: 5.487 min Scan# 560
Delta R.T. -0.012 min
Lab File: BF143906.D
Acq: 08 Oct 2025 20:32



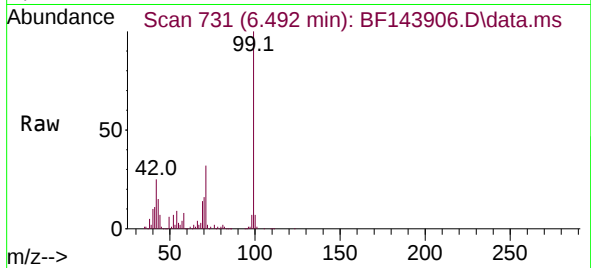
Tgt Ion:112 Resp: 137250
Ion Ratio Lower Upper
112 100
64 62.0 49.1 73.7
63 27.2 24.5 36.7





#7
Phenol-d6
Concen: 18.634 ng
RT: 6.492 min Scan# 731
Delta R.T. -0.023 min
Lab File: BF143906.D
Acq: 08 Oct 2025 20:32

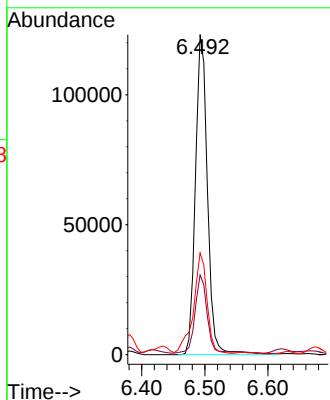
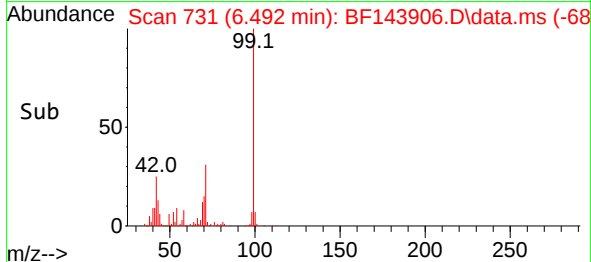
Instrument :
BNA_F
ClientSampleId :
S-35(0-0.5)



Tgt Ion: 99 Resp: 163721
Ion Ratio Lower Upper
99 100
42 24.9 21.0 31.4
71 31.8 27.8 41.8

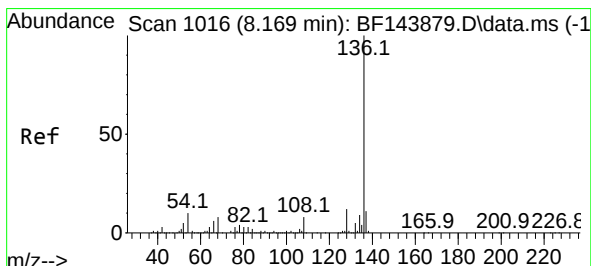
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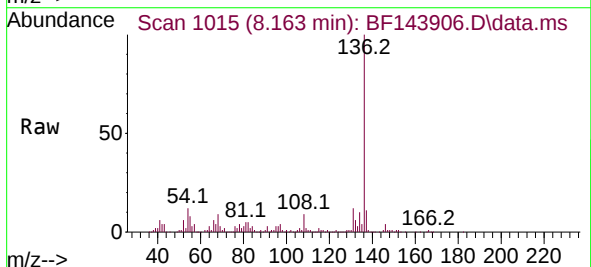


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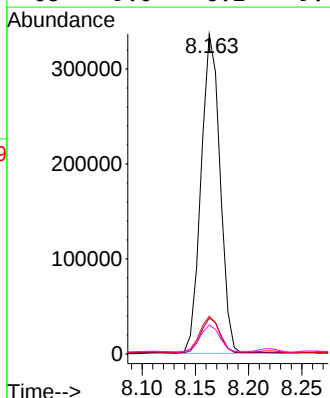
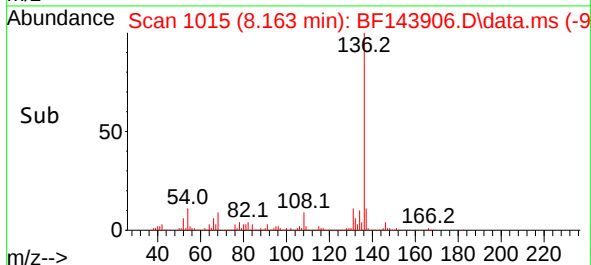
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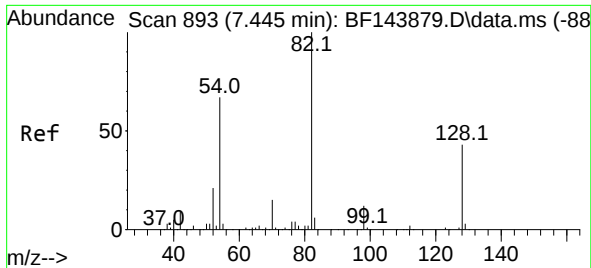


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1015
Delta R.T. -0.006 min
Lab File: BF143906.D
Acq: 08 Oct 2025 20:32



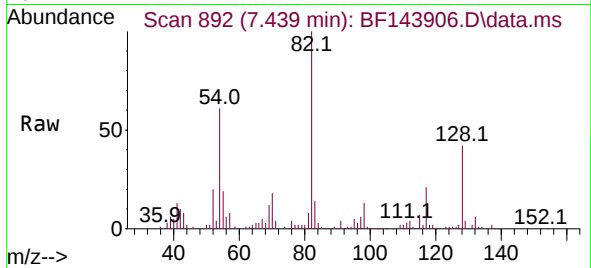
Tgt Ion:136 Resp: 416342
Ion Ratio Lower Upper
136 100
137 11.2 8.5 12.7
54 11.8 8.2 12.4
68 9.0 6.2 9.4





#23
Nitrobenzene-d5
Concen: 13.474 ng
RT: 7.439 min Scan# 893
Delta R.T. -0.018 min
Lab File: BF143906.D
Acq: 08 Oct 2025 20:32

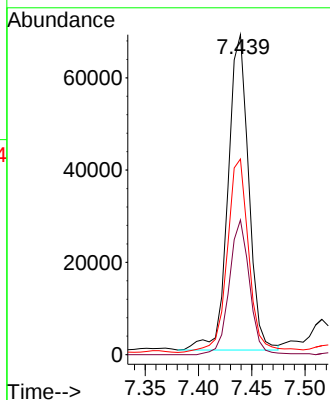
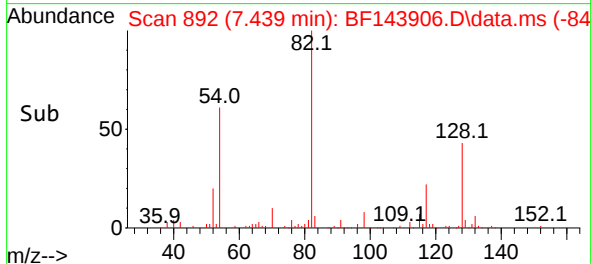
Instrument :
BNA_F
ClientSampleId :
S-35(0-0.5)



Tgt Ion: 82 Resp: 92338
Ion Ratio Lower Upper
82 100
128 42.1 34.0 51.0
54 61.1 53.2 79.8

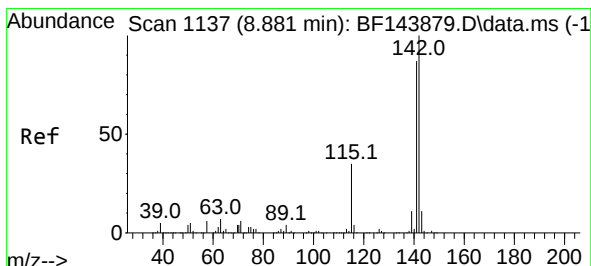
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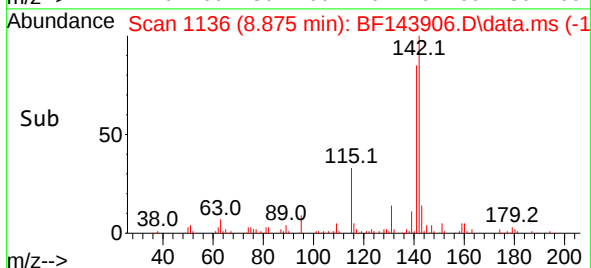
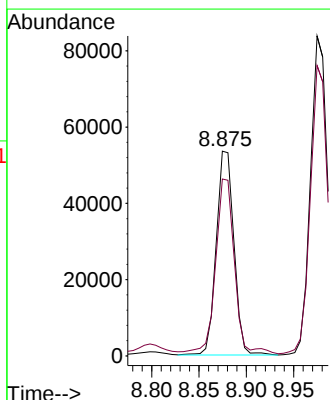
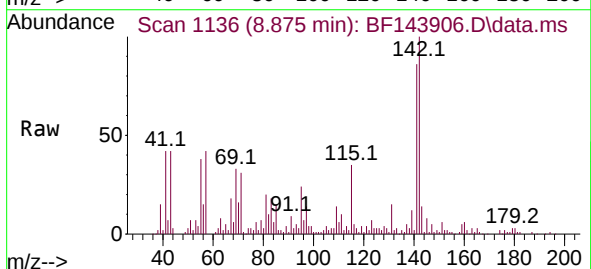
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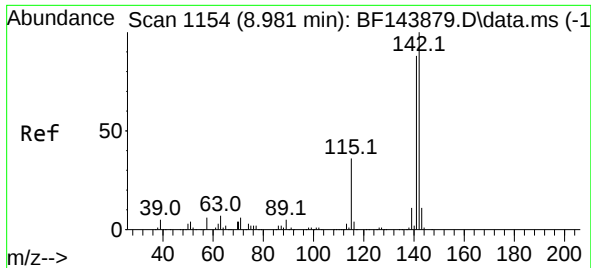
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#37
2-Methylnaphthalene
Concen: 5.487 ng
RT: 8.875 min Scan# 1136
Delta R.T. -0.012 min
Lab File: BF143906.D
Acq: 08 Oct 2025 20:32

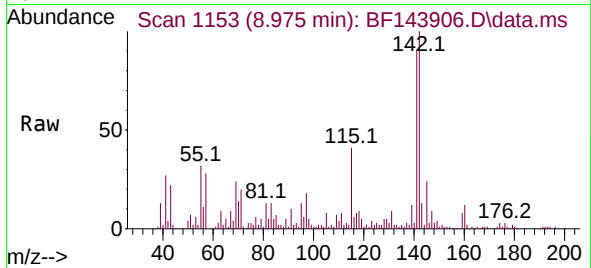
Tgt Ion:142 Resp: 69226
Ion Ratio Lower Upper
142 100
141 86.4 69.2 103.8





#38
1-Methylnaphthalene
Concen: 8.648 ng
RT: 8.975 min Scan# 1153
Delta R.T. -0.011 min
Lab File: BF143906.D
Acq: 08 Oct 2025 20:32

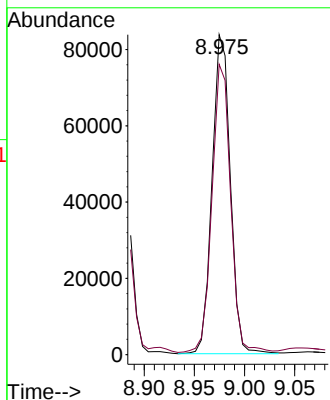
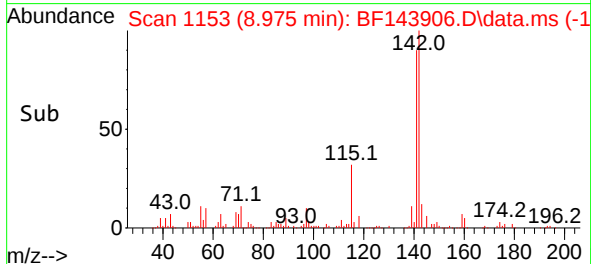
Instrument :
BNA_F
ClientSampleId :
S-35(0-0.5)



Tgt Ion:142 Resp: 105826
Ion Ratio Lower Upper
142 100
141 90.7 70.8 106.2

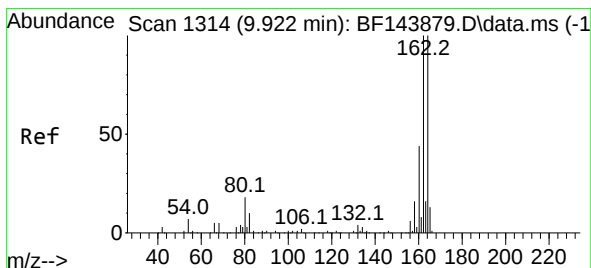
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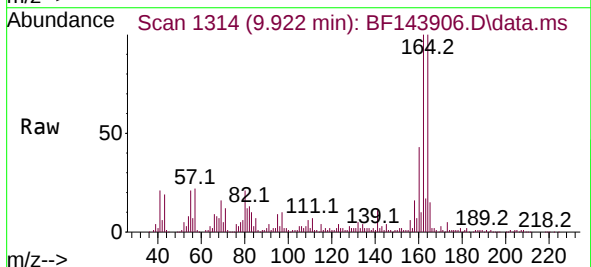


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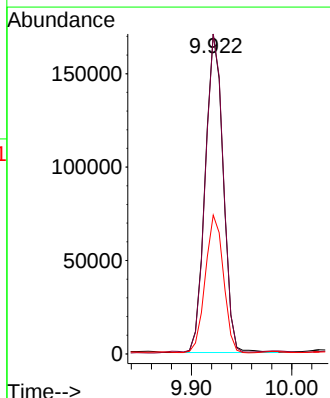
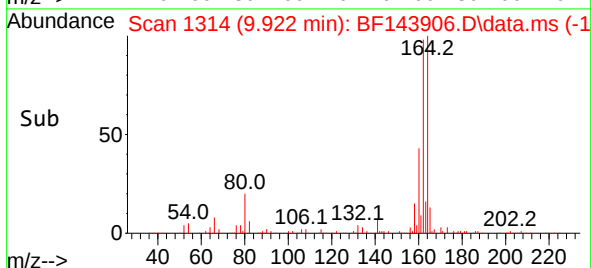
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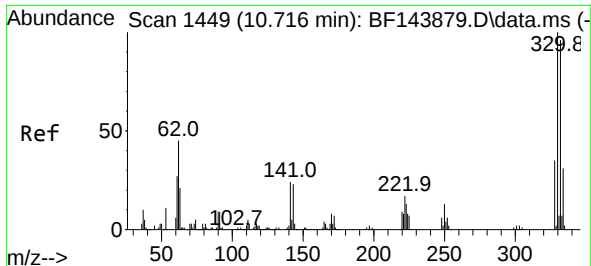


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1314
Delta R.T. -0.005 min
Lab File: BF143906.D
Acq: 08 Oct 2025 20:32



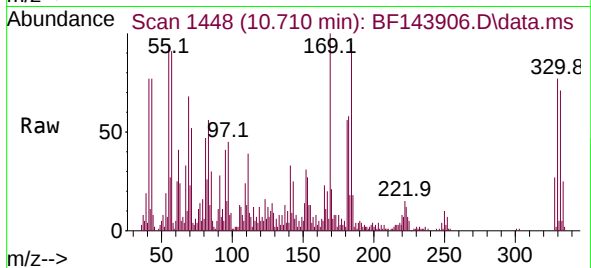
Tgt Ion:164 Resp: 212448
Ion Ratio Lower Upper
164 100
162 99.9 80.2 120.2
160 43.4 35.4 53.0





#42
2,4,6-Tribromophenol
Concen: 14.449 ng
RT: 10.710 min Scan# 1449
Delta R.T. -0.012 min
Lab File: BF143906.D
Acq: 08 Oct 2025 20:32

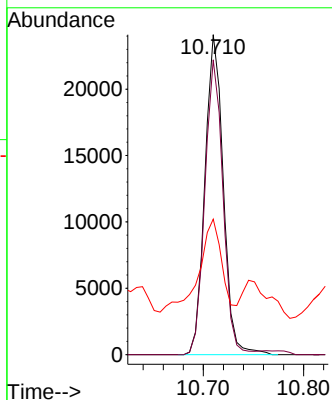
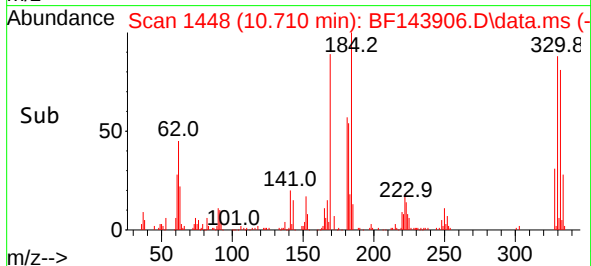
Instrument :
BNA_F
ClientSampleId :
S-35(0-0.5)



Tgt Ion:330 Resp: 30574
Ion Ratio Lower Upper
330 100
332 91.0 76.9 115.3
141 35.8 20.2 30.4

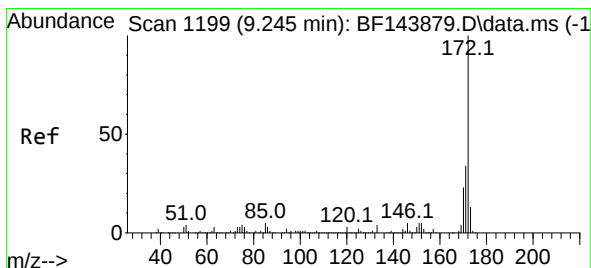
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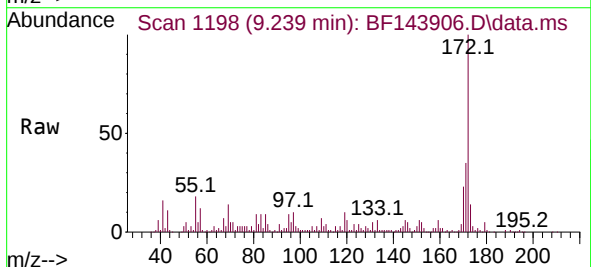


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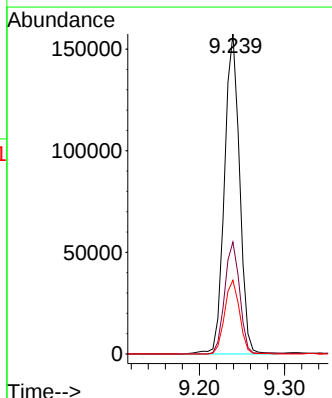
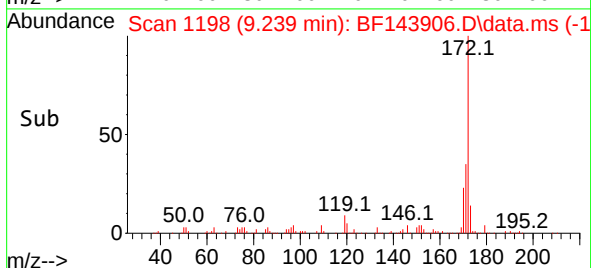
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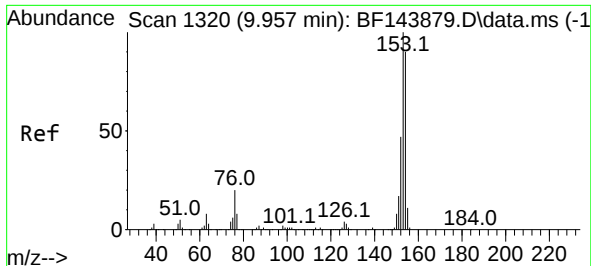


#45
2-Fluorobiphenyl
Concen: 14.499 ng
RT: 9.239 min Scan# 1198
Delta R.T. -0.012 min
Lab File: BF143906.D
Acq: 08 Oct 2025 20:32



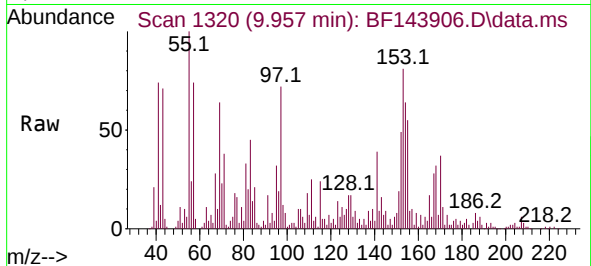
Tgt Ion:172 Resp: 194121
Ion Ratio Lower Upper
172 100
171 35.0 27.4 41.0
170 23.0 18.6 28.0





#52
Acenaphthene
Concen: 3.695 ng
RT: 9.957 min Scan# 1320
Delta R.T. -0.006 min
Lab File: BF143906.D
Acq: 08 Oct 2025 20:32

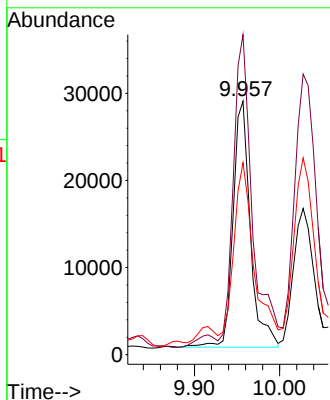
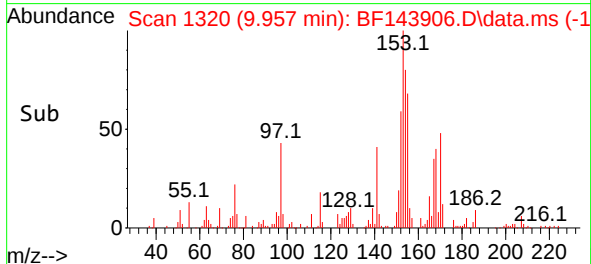
Instrument :
BNA_F
ClientSampleId :
S-35(0-0.5)



Tgt Ion:154 Resp: 39922
Ion Ratio Lower Upper
154 100
153 126.3 89.3 133.9
152 75.7 42.2 63.2

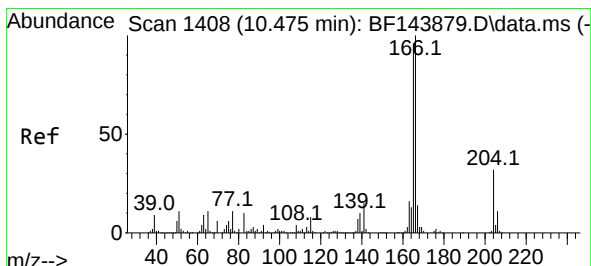
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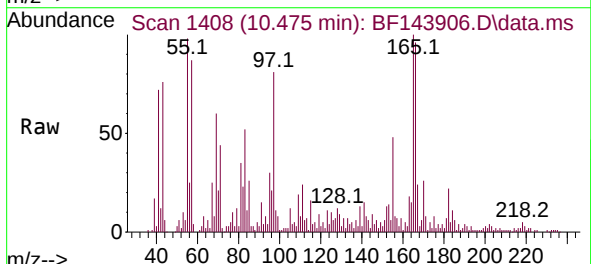


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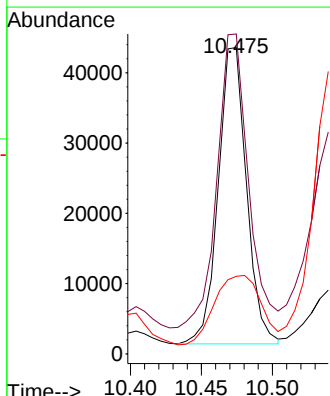
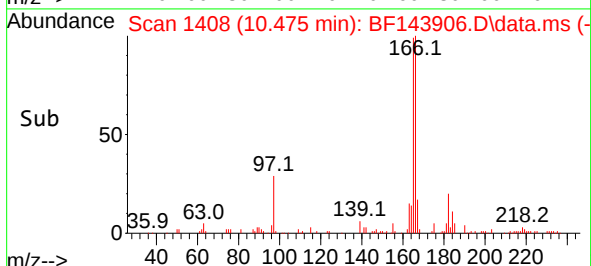
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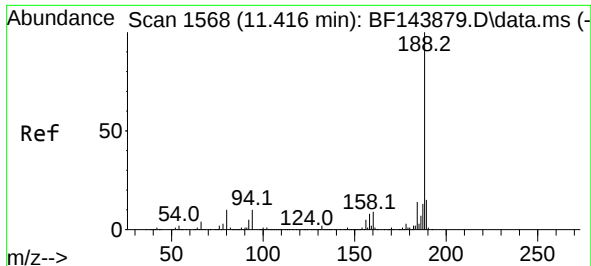


#58
Fluorene
Concen: 5.089 ng
RT: 10.475 min Scan# 1408
Delta R.T. -0.006 min
Lab File: BF143906.D
Acq: 08 Oct 2025 20:32



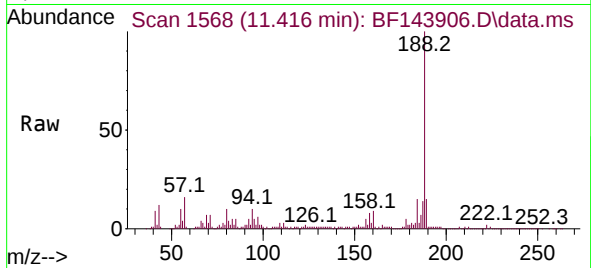
Tgt Ion:166 Resp: 58562
Ion Ratio Lower Upper
166 100
165 104.5 77.0 115.6
167 25.3 11.1 16.7





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.416 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF143906.D
Acq: 08 Oct 2025 20:32

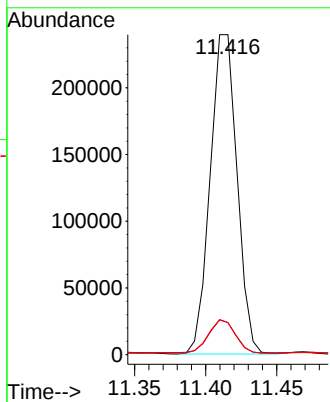
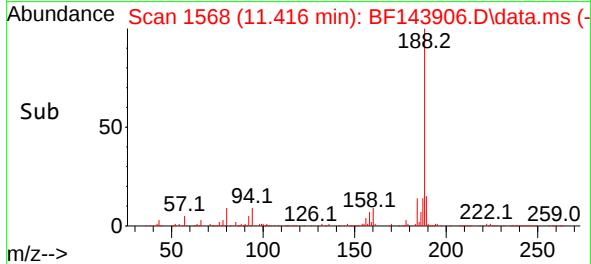
Instrument :
BNA_F
ClientSampleId :
S-35(0-0.5)



Tgt Ion:188 Resp: 316060
Ion Ratio Lower Upper
188 100
94 10.0 7.8 11.6
80 10.0 7.9 11.9

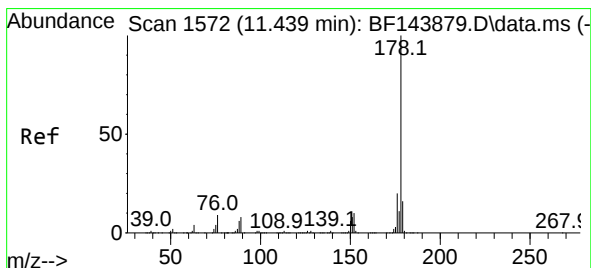
Manual Integrations
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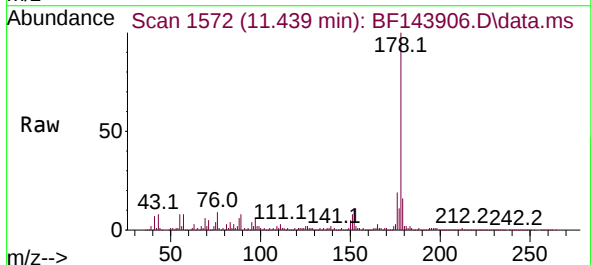


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Upadhyay

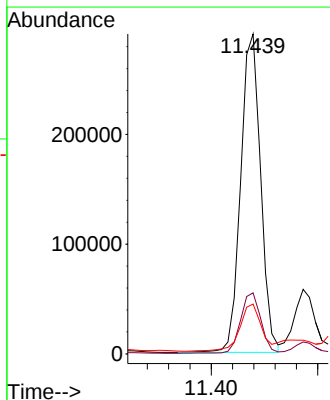
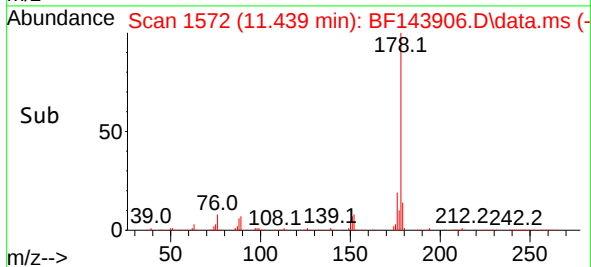
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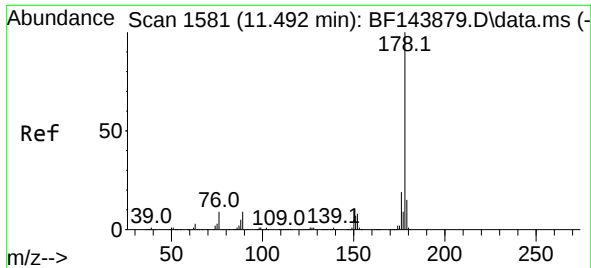


#71
Phenanthrene
Concen: 24.533 ng
RT: 11.439 min Scan# 1572
Delta R.T. -0.006 min
Lab File: BF143906.D
Acq: 08 Oct 2025 20:32



Tgt Ion:178 Resp: 375911
Ion Ratio Lower Upper
178 100
176 19.1 15.9 23.9
179 15.6 12.4 18.6





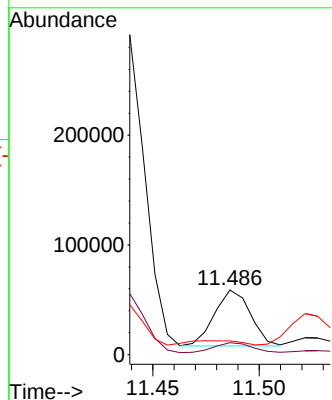
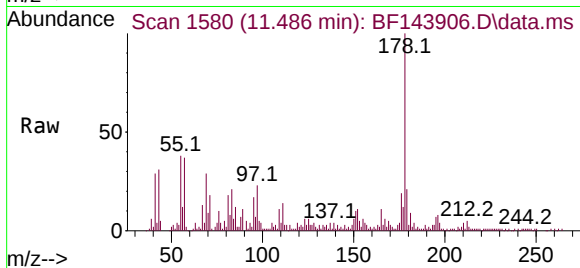
#72
 Anthracene
 Concen: 3.866 ng m
 RT: 11.486 min Scan# 11
 Delta R.T. -0.012 min
 Lab File: BF143906.D
 Acq: 08 Oct 2025 20:32

Instrument :
 BNA_F
 ClientSampleId :
 S-35(0-0.5)

Tgt Ion:178 Resp: 5985
 Ion Ratio Lower Upper
 178 100
 176 18.5 14.9 22.3
 179 21.3 12.2 18.2

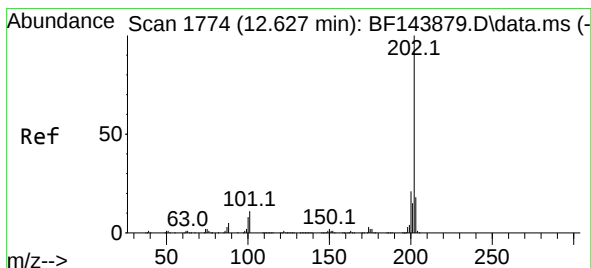
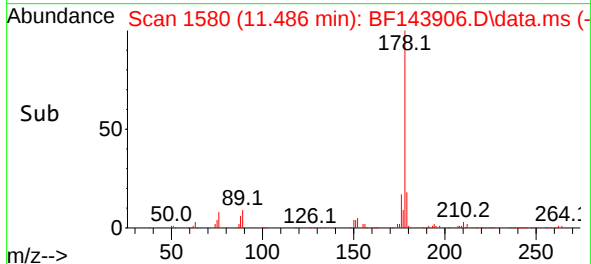
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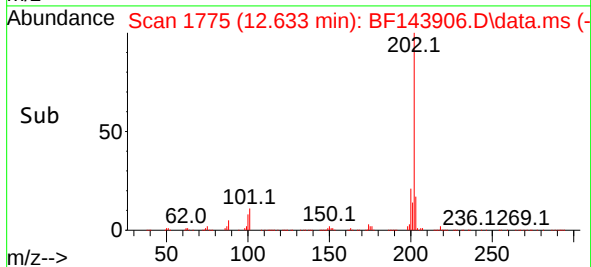
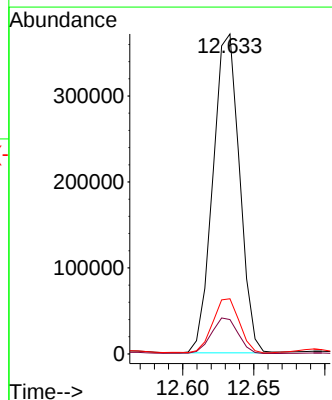
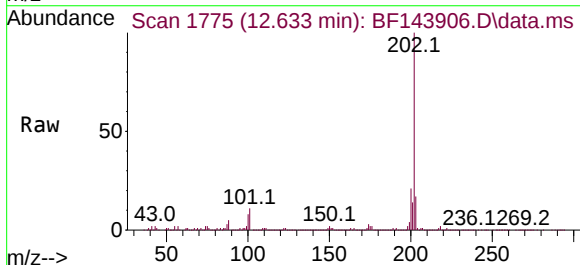
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 Upadhyay

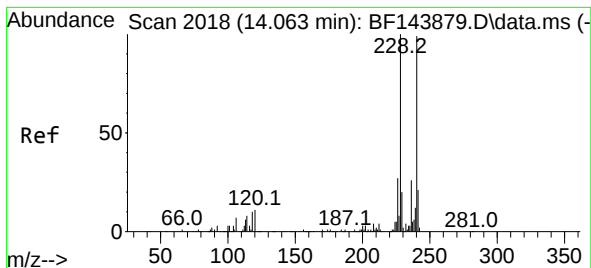
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#75
 Fluoranthene
 Concen: 30.622 ng
 RT: 12.633 min Scan# 1775
 Delta R.T. 0.000 min
 Lab File: BF143906.D
 Acq: 08 Oct 2025 20:32

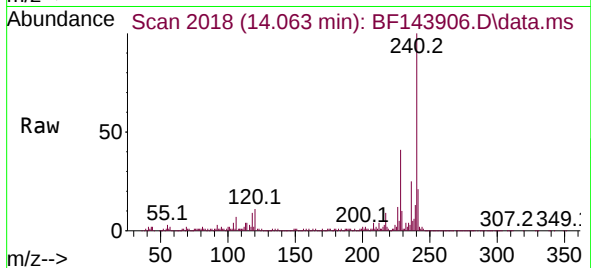
Tgt Ion:202 Resp: 484654
 Ion Ratio Lower Upper
 202 100
 101 10.7 0.0 30.7
 203 17.2 0.0 37.8





#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2018
Delta R.T. -0.005 min
Lab File: BF143906.D
Acq: 08 Oct 2025 20:32

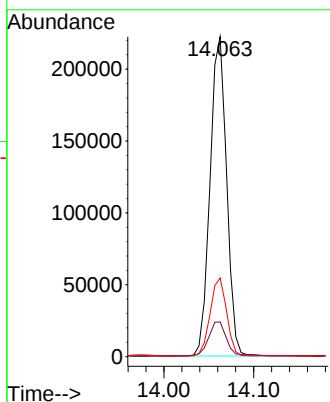
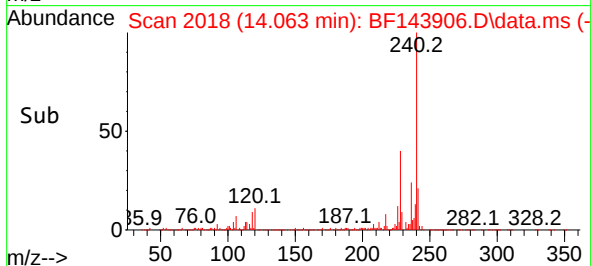
Instrument :
BNA_F
ClientSampleId :
S-35(0-0.5)



Tgt Ion:240 Resp: 287326
Ion Ratio Lower Upper
240 100
120 10.8 8.6 13.0
236 24.6 21.1 31.7

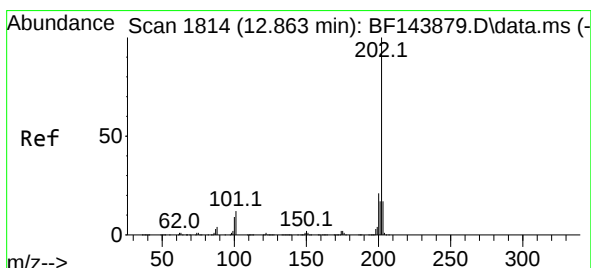
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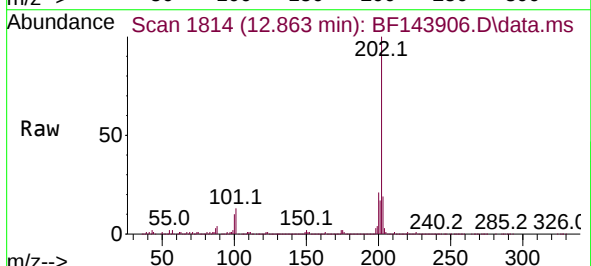


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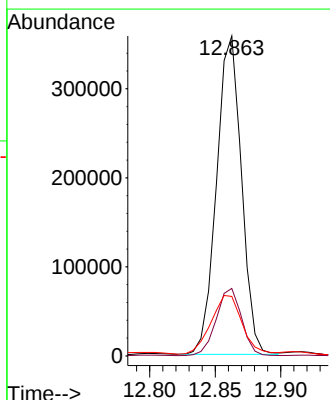
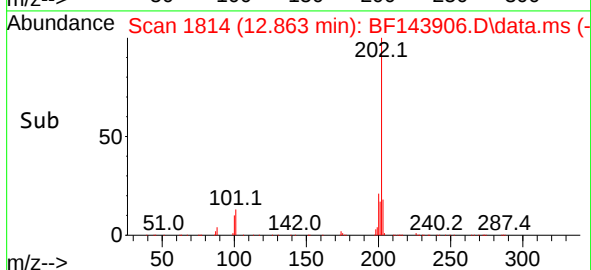
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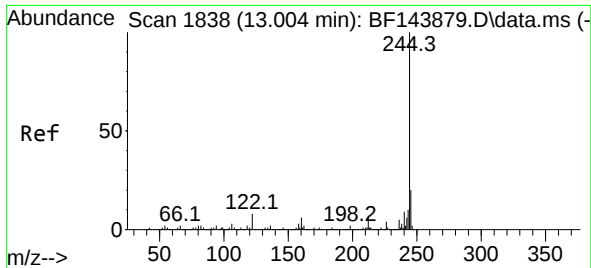


#78
Pyrene
Concen: 19.749 ng
RT: 12.863 min Scan# 1814
Delta R.T. 0.000 min
Lab File: BF143906.D
Acq: 08 Oct 2025 20:32



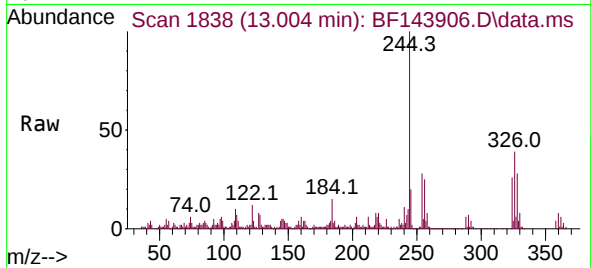
Tgt Ion:202 Resp: 473064
Ion Ratio Lower Upper
202 100
200 21.1 17.0 25.6
203 18.6 13.8 20.6





#79
Terphenyl-d14
Concen: 9.544 ng
RT: 13.004 min Scan# 1838
Delta R.T. -0.006 min
Lab File: BF143906.D
Acq: 08 Oct 2025 20:32

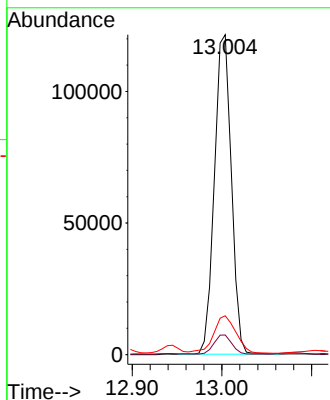
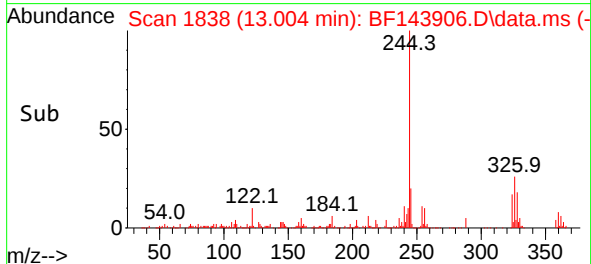
Instrument :
BNA_F
ClientSampleId :
S-35(0-0.5)



Tgt Ion:244 Resp: 160456
Ion Ratio Lower Upper
244 100
212 6.1 5.4 8.0
122 12.1 6.4 9.6

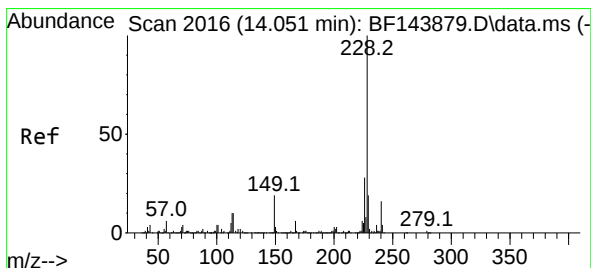
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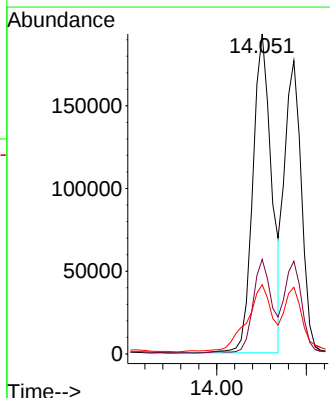
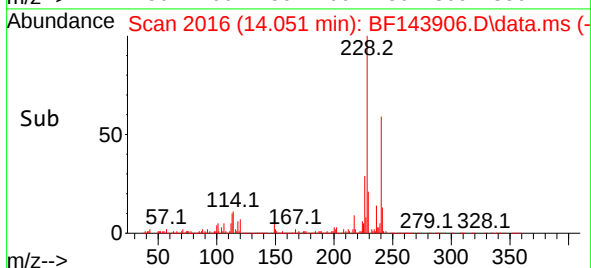
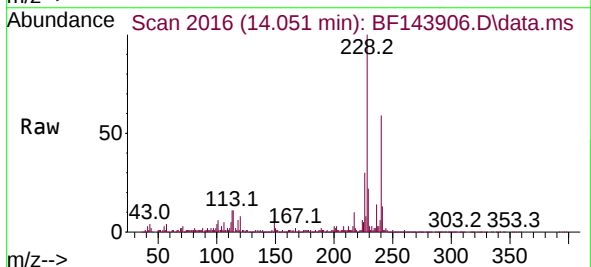
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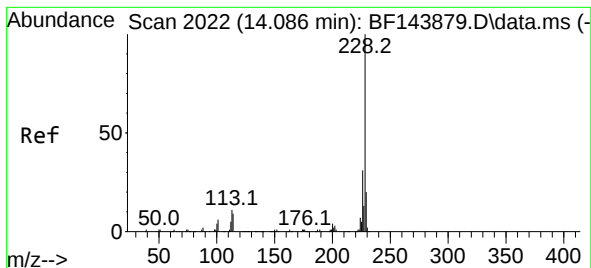
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#81
Benzo(a)anthracene
Concen: 15.036 ng
RT: 14.051 min Scan# 2016
Delta R.T. -0.006 min
Lab File: BF143906.D
Acq: 08 Oct 2025 20:32

Tgt Ion:228 Resp: 282718
Ion Ratio Lower Upper
228 100
226 29.5 22.2 33.2
229 21.6 15.6 23.4





#83

Chrysene

Concen: 13.136 ng

RT: 14.086 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF143906.D

Acq: 08 Oct 2025 20:32

Instrument :

BNA_F

ClientSampleId :

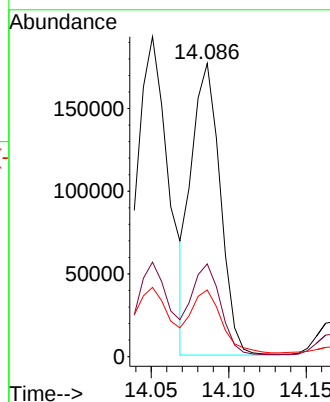
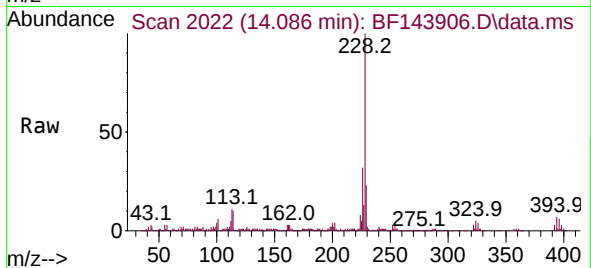
S-35(0-0.5)

Tgt Ion:228 Resp: 228604

Ion	Ratio	Lower	Upper
228	100		
226	31.6	24.4	36.6
229	22.7	15.9	23.9

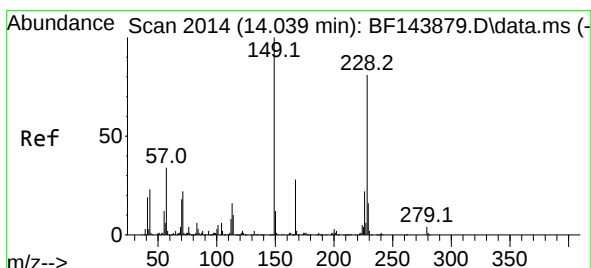
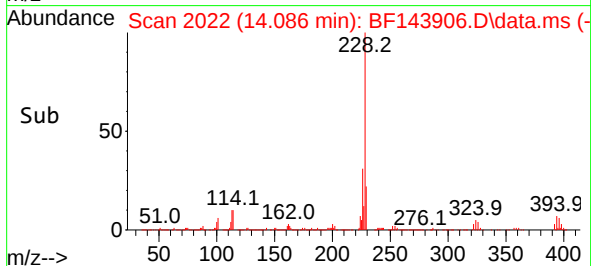
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#84

Bis(2-ethylhexyl)phthalate

Concen: 5.179 ng

RT: 14.039 min Scan# 2014

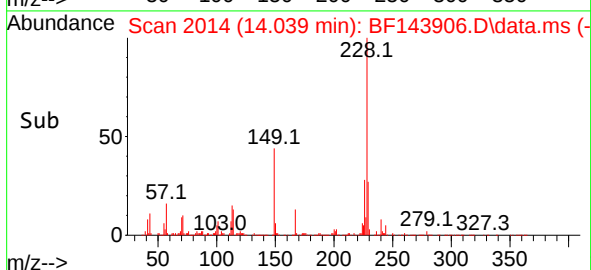
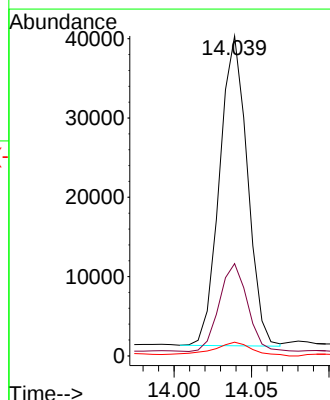
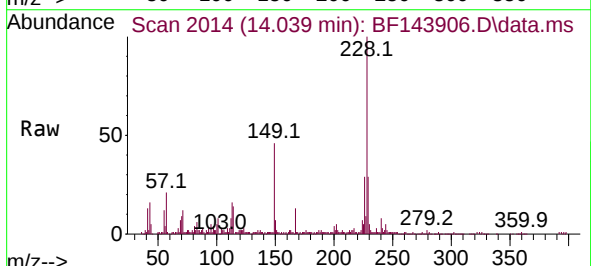
Delta R.T. 0.000 min

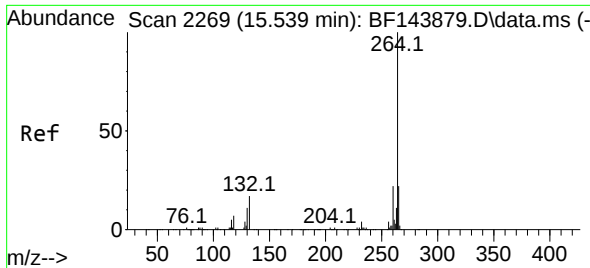
Lab File: BF143906.D

Acq: 08 Oct 2025 20:32

Tgt Ion:149 Resp: 48563

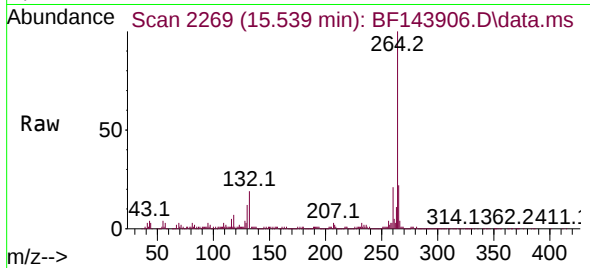
Ion	Ratio	Lower	Upper
149	100		
167	28.8	22.2	33.4
279	4.3	3.1	4.7





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.539 min Scan# 2269
Delta R.T. -0.006 min
Lab File: BF143906.D
Acq: 08 Oct 2025 20:32

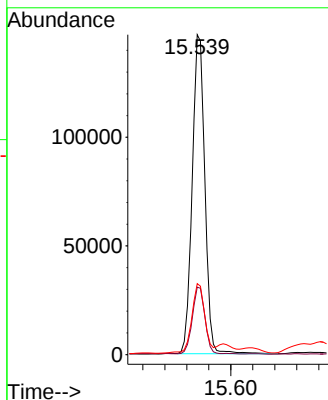
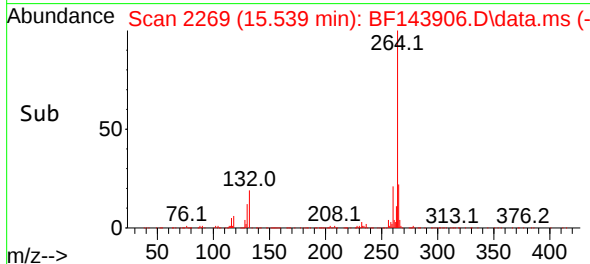
Instrument :
BNA_F
ClientSampleId :
S-35(0-0.5)



Tgt Ion:264 Resp: 234519
Ion Ratio Lower Upper
264 100
260 21.1 17.8 26.8
265 22.2 17.5 26.3

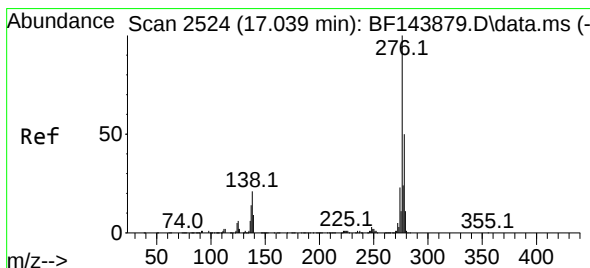
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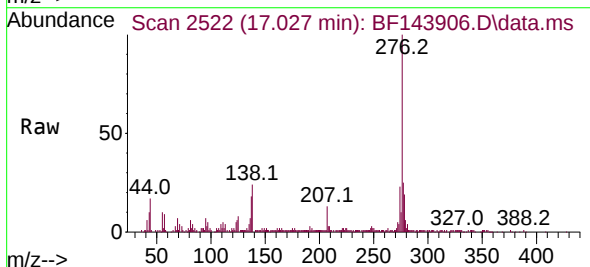


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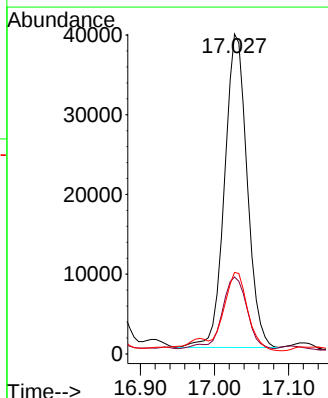
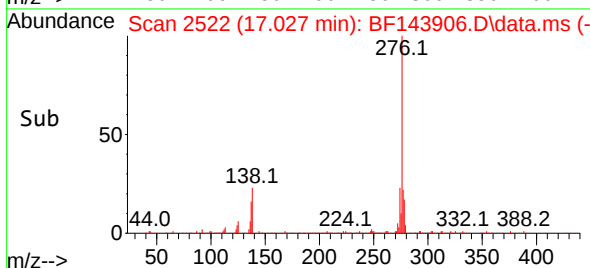
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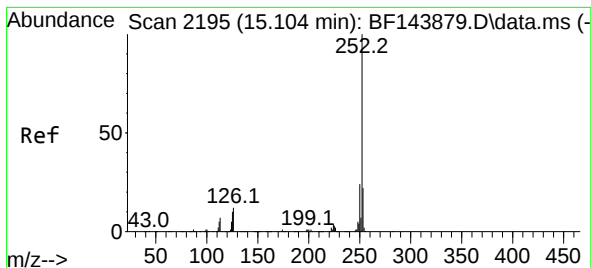


#87
Indeno(1,2,3-cd)pyrene
Concen: 5.784 ng
RT: 17.027 min Scan# 2522
Delta R.T. -0.029 min
Lab File: BF143906.D
Acq: 08 Oct 2025 20:32



Tgt Ion:276 Resp: 83123
Ion Ratio Lower Upper
276 100
138 25.3 18.2 27.2
277 26.1 19.8 29.6





#88

Benzo(b)fluoranthene

Concen: 17.298 ng m

RT: 15.110 min Scan# 2196

Delta R.T. -0.006 min

Lab File: BF143906.D

Acq: 08 Oct 2025 20:32

Instrument :

BNF

ClientSampleId :

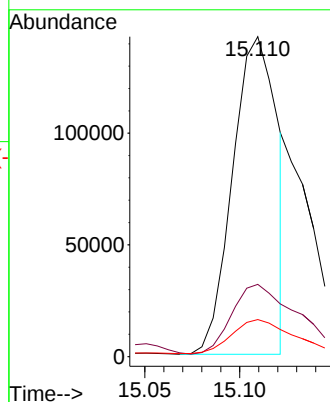
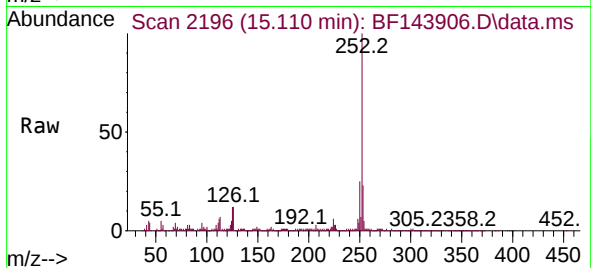
S-35(0-0.5)

Tgt Ion:252 Resp: 233026

Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.4	26.2
125	11.6	7.8	11.6

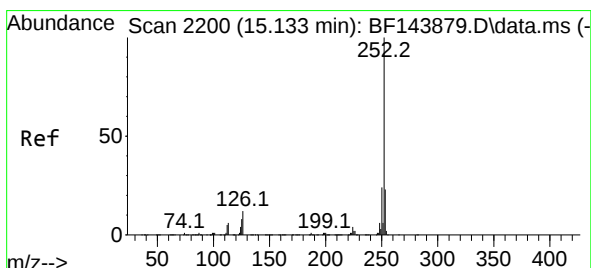
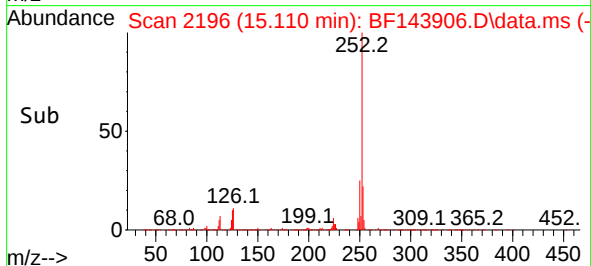
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#89

Benzo(k)fluoranthene

Concen: 7.452 ng m

RT: 15.121 min Scan# 2198

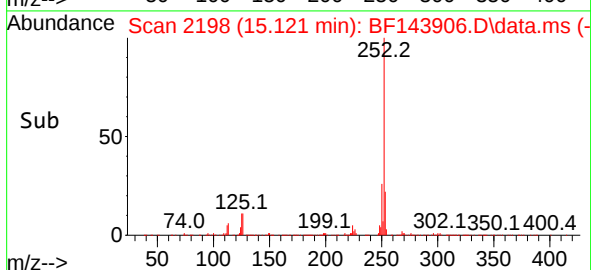
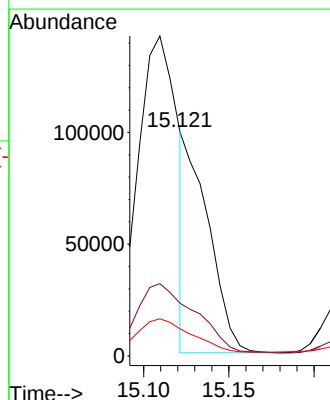
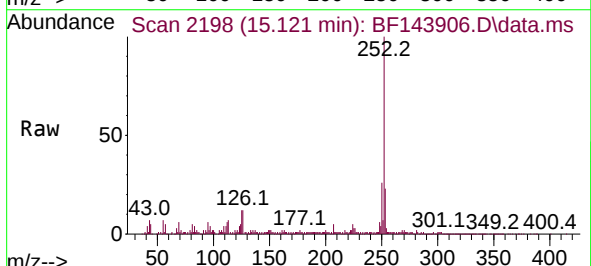
Delta R.T. -0.023 min

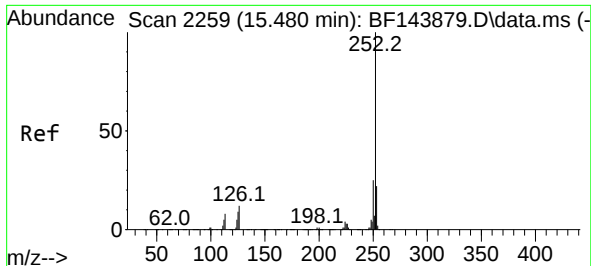
Lab File: BF143906.D

Acq: 08 Oct 2025 20:32

Tgt Ion:252 Resp: 92897

Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.8	26.8
125	12.1	7.4	11.2





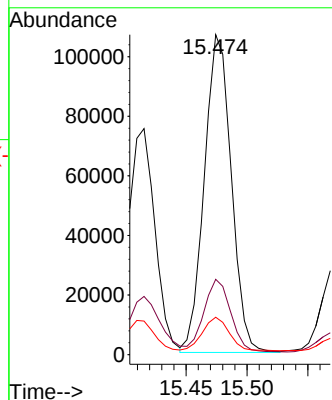
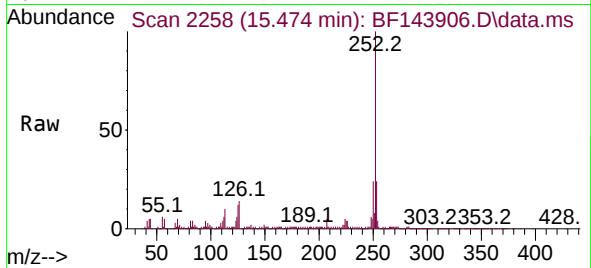
#90
Benzo(a)pyrene
Concen: 14.067 ng
RT: 15.474 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF143906.D
Acq: 08 Oct 2025 20:32

Instrument :
BNA_F
ClientSampleId :
S-35(0-0.5)

Tgt Ion:252 Resp: 164320
Ion Ratio Lower Upper
252 100
253 23.5 17.3 25.9
125 11.7 7.0 10.4

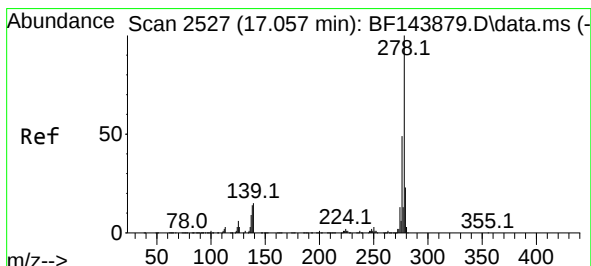
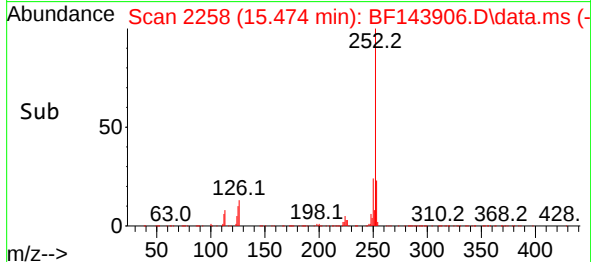
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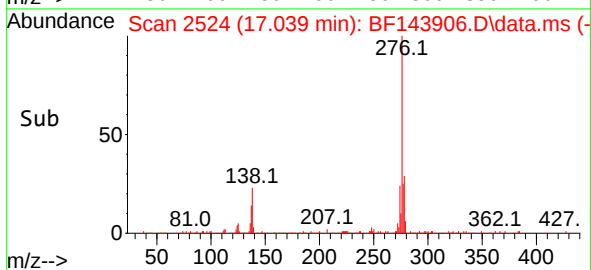
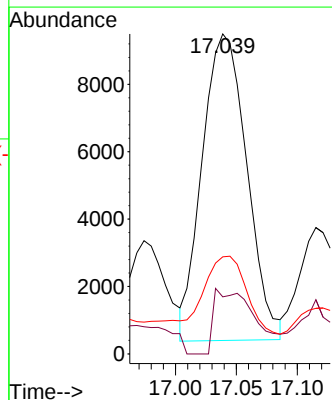
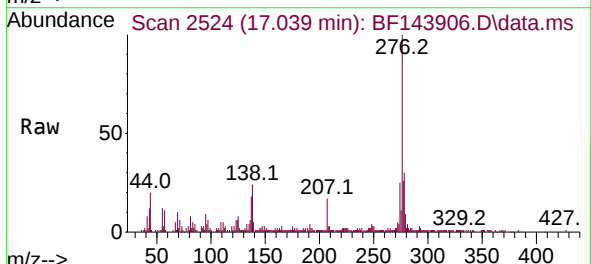
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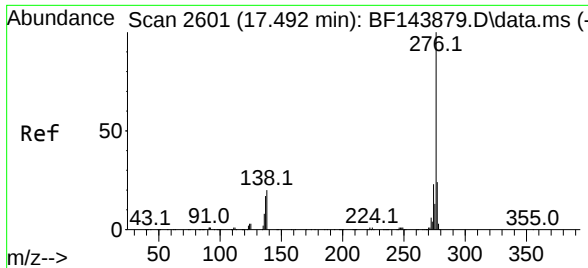
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#91
Dibenzo(a,h)anthracene
Concen: 2.009 ng
RT: 17.039 min Scan# 2524
Delta R.T. -0.041 min
Lab File: BF143906.D
Acq: 08 Oct 2025 20:32

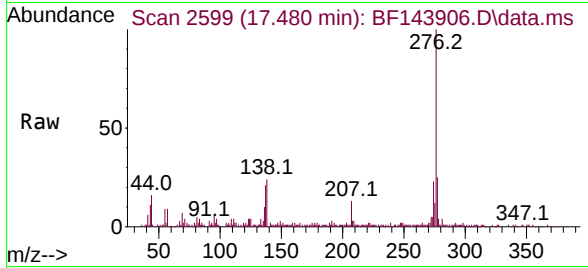
Tgt Ion:278 Resp: 23221
Ion Ratio Lower Upper
278 100
139 17.8 11.7 17.5#
279 30.3 18.4 27.6#





#92
Benzo(g,h,i)perylene
Concen: 7.439 ng
RT: 17.480 min Scan# 2599
Delta R.T. -0.035 min
Lab File: BF143906.D
Acq: 08 Oct 2025 20:32

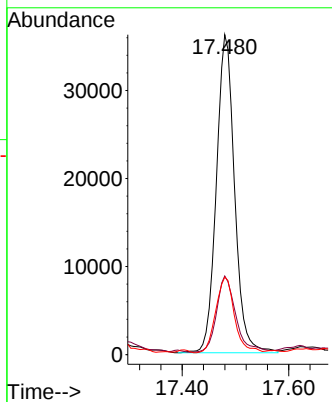
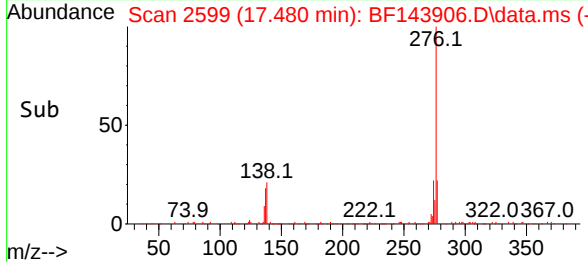
Instrument :
BNA_F
ClientSampleId :
S-35(0-0.5)



Tgt Ion:	276	Resp:	85970
Ion Ratio	Lower	Upper	
276	100		
277	24.6	19.0	28.6
138	24.2	16.1	24.1

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