

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060425\
 Data File : BF142622.D
 Acq On : 04 Jun 2025 22:45
 Operator : RC/JU
 Sample : Q2182-01 2X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jun 05 01:28:58 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 20 16:26:47 2025
 Response via : Initial Calibration

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

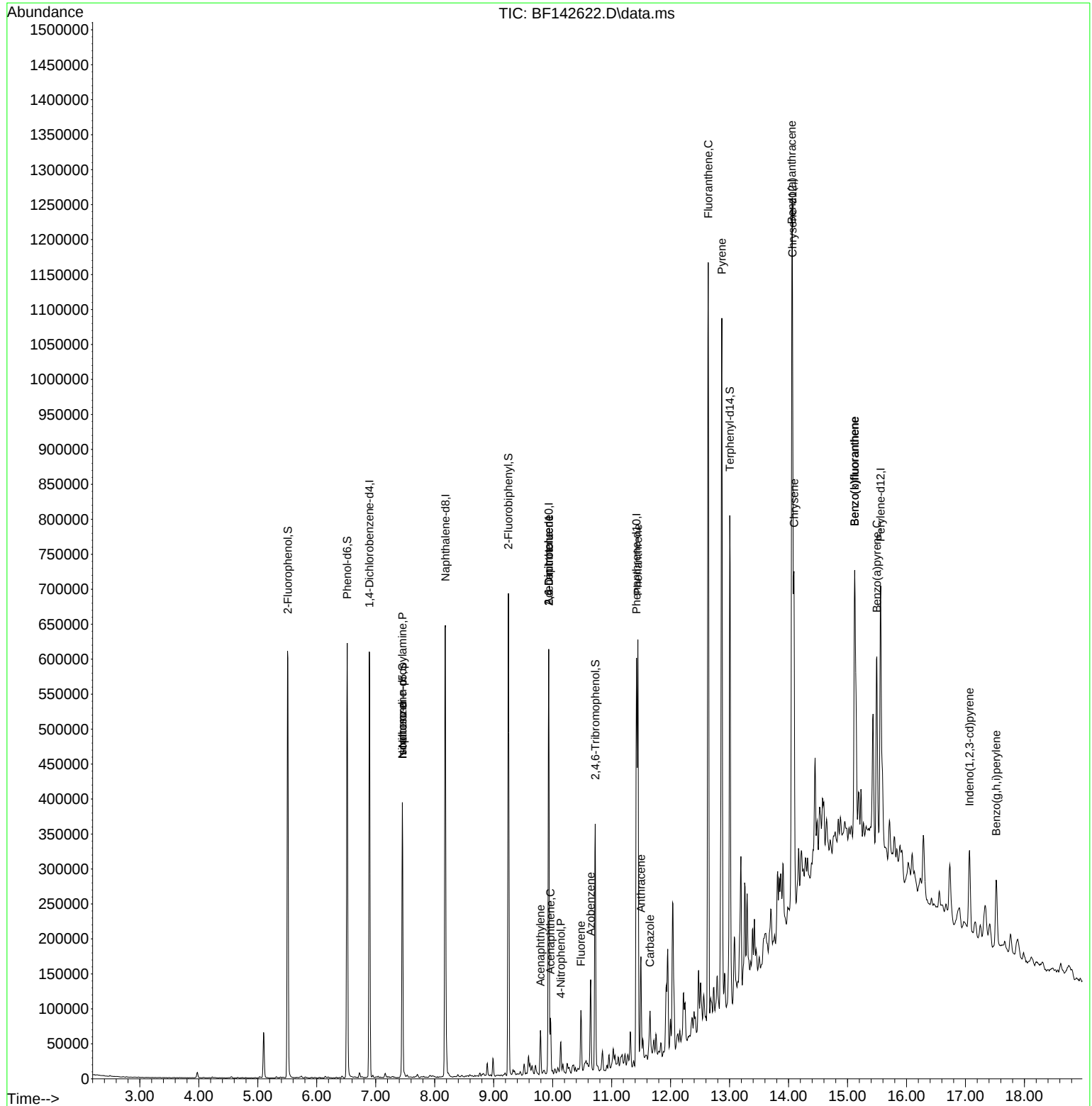
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.893	152	134658	20.000	ng	-0.01
21) Naphthalene-d8	8.181	136	431026	20.000	ng	0.00
39) Acenaphthene-d10	9.934	164	175978	20.000	ng	-0.01
64) Phenanthrene-d10	11.422	188	297515	20.000	ng	-0.01
76) Chrysene-d12	14.069	240	318437	20.000	ng	0.00
86) Perylene-d12	15.563	264	222205	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	243201	30.428	ng	0.00
7) Phenol-d6	6.516	99	279358	29.035	ng	-0.02
23) Nitrobenzene-d5	7.451	82	160663	20.325	ng	-0.02
42) 2,4,6-Tribromophenol	10.722	330	57747	29.566	ng	-0.02
45) 2-Fluorobiphenyl	9.251	172	307751	23.467	ng	-0.02
79) Terphenyl-d14	13.004	244	340999	14.634	ng	-0.01
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.451	70	21486	3.603	ng	# 77
25) Isophorone	7.451	82	141020	10.670	ng	# 63
49) Acenaphthylene	9.792	152	36351	2.134	ng	98
51) 2,6-Dinitrotoluene	9.934	165	23373	9.326	ng	# 28
52) Acenaphthene	9.963	154	24936	2.398	ng	98
56) 4-Nitrophenol	10.139	139	7691	3.808	ng	# 15
57) 2,4-Dinitrotoluene	9.934	165	23373	7.141	ng	# 28
58) Fluorene	10.481	166	36372	3.146	ng	99
63) Azobenzene	10.645	77	27240	2.674	ng	# 1
71) Phenanthrene	11.445	178	313870	19.741	ng	99
72) Anthracene	11.498	178	94058	5.796	ng	99
73) Carbazole	11.651	167	32874	2.370	ng	98
75) Fluoranthene	12.639	202	633811	42.662	ng	99
78) Pyrene	12.869	202	584973	19.692	ng	99
81) Benzo(a)anthracene	14.057	228	317249	14.920	ng	92
83) Chrysene	14.092	228	248207	12.991	ng	97
87) Indeno(1,2,3-cd)pyrene	17.068	276	91110	5.462	ng	97
88) Benzo(b)fluoranthene	15.121	252	343546	26.123	ng	# 94
89) Benzo(k)fluoranthene	15.121	252	343546	27.891	ng	# 94
90) Benzo(a)pyrene	15.498	252	173503	13.996	ng	96
92) Benzo(g,h,i)perylene	17.521	276	88829	6.564	ng	97

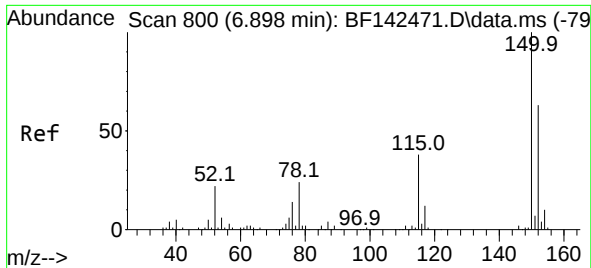
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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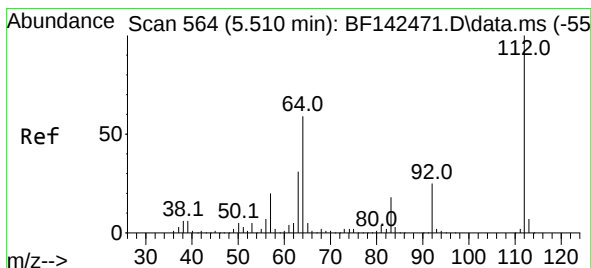
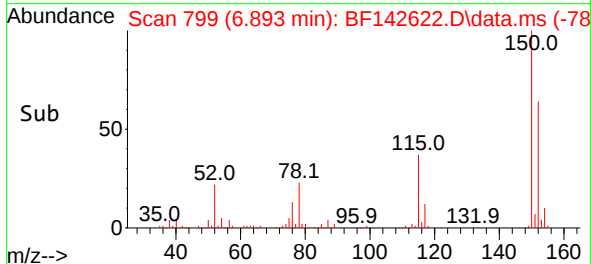
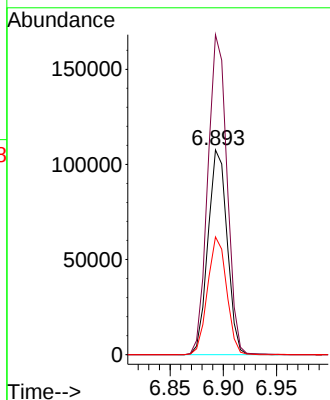
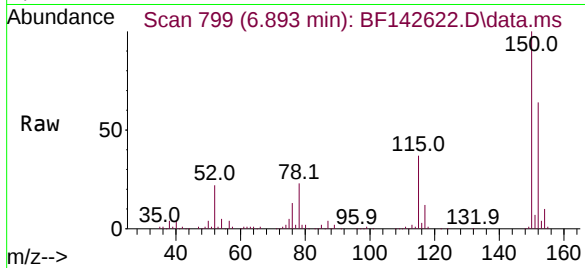




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.893 min Scan# 79
Delta R.T. -0.011 min
Lab File: BF142622.D
Acq: 04 Jun 2025 22:45

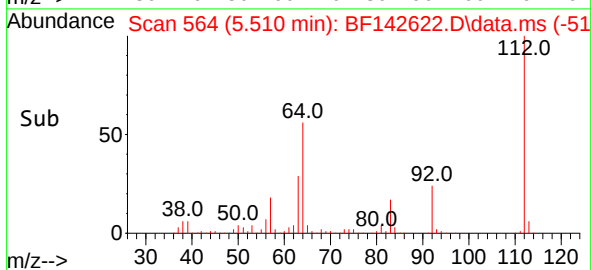
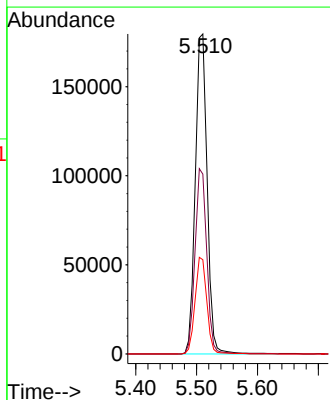
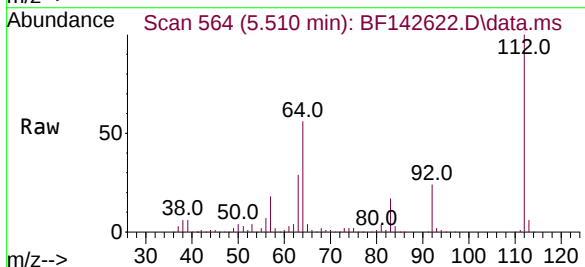
Instrument :
BNA_F
ClientSampleId :

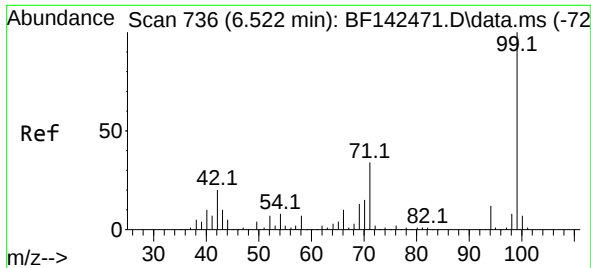
Tgt Ion:152 Resp: 134658
Ion Ratio Lower Upper
152 100
150 156.3 128.2 192.4
115 57.5 48.3 72.5



#5
2-Fluorophenol
Concen: 30.428 ng
RT: 5.510 min Scan# 564
Delta R.T. -0.006 min
Lab File: BF142622.D
Acq: 04 Jun 2025 22:45

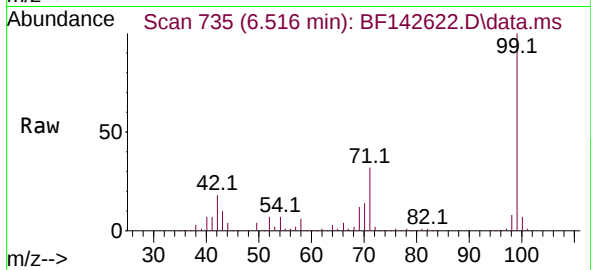
Tgt Ion:112 Resp: 243201
Ion Ratio Lower Upper
112 100
64 56.2 47.5 71.3
63 29.5 24.9 37.3



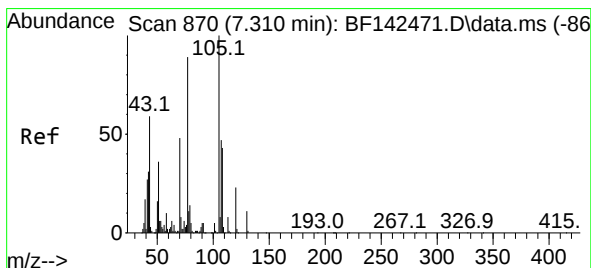
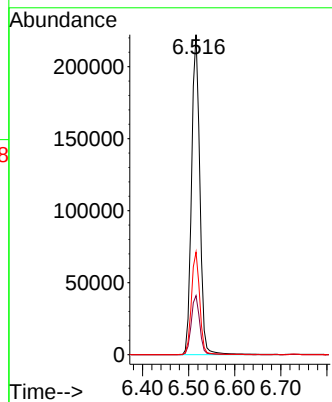
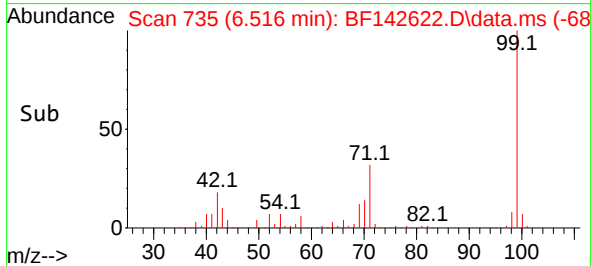


#7
Phenol-d6
Concen: 29.035 ng
RT: 6.516 min Scan# 736
Delta R.T. -0.017 min
Lab File: BF142622.D
Acq: 04 Jun 2025 22:45

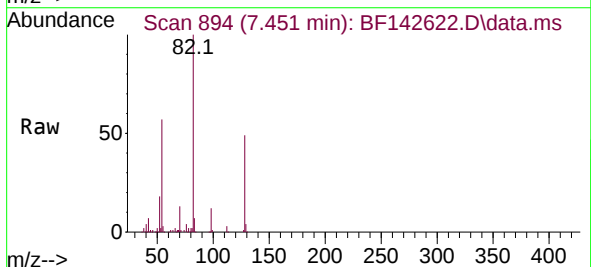
Instrument :
BNA_F
ClientSampleId :



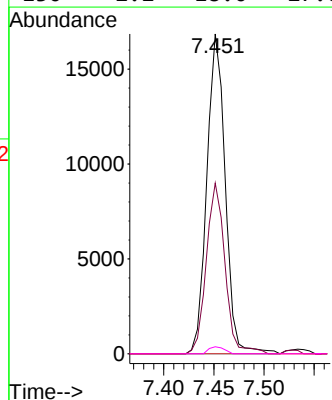
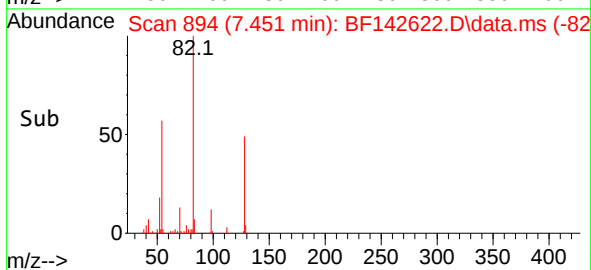
Tgt Ion: 99 Resp: 279358
Ion Ratio Lower Upper
99 100
42 18.4 16.2 24.2
71 32.0 27.3 40.9

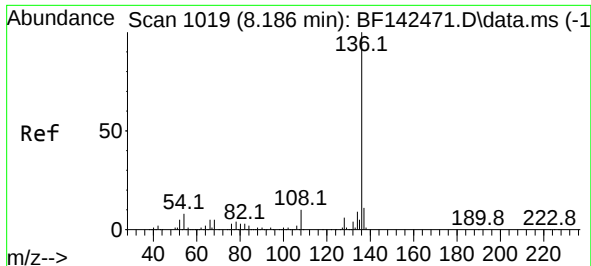


#19
n-Nitroso-di-n-propylamine
Concen: 3.603 ng
RT: 7.451 min Scan# 894
Delta R.T. 0.124 min
Lab File: BF142622.D
Acq: 04 Jun 2025 22:45



Tgt Ion: 70 Resp: 21486
Ion Ratio Lower Upper
70 100
42 53.4 52.4 78.6
101 0.0 7.8 11.8#
130 2.2 18.0 27.0#



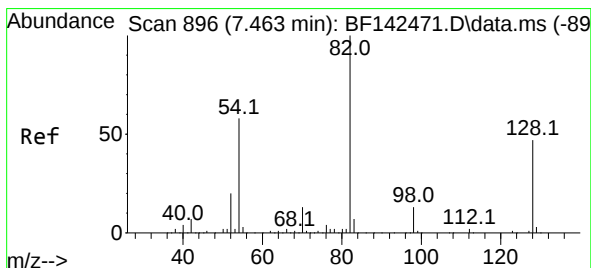
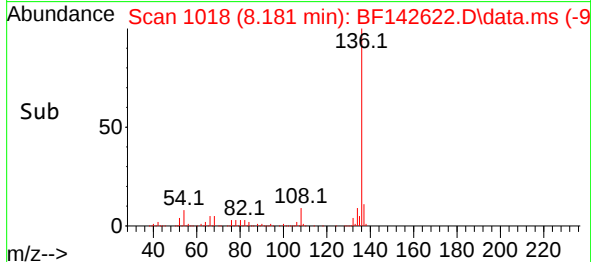
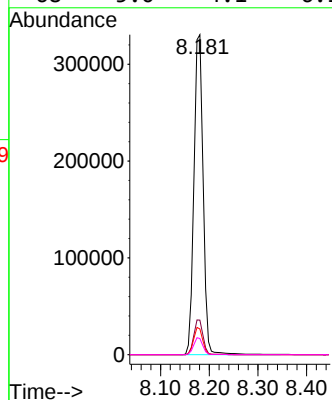
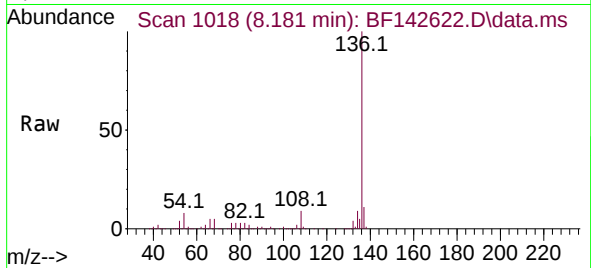


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1019
Delta R.T. -0.006 min
Lab File: BF142622.D
Acq: 04 Jun 2025 22:45

Instrument :
BNA_F
ClientSampleId :

Tgt Ion:136 Resp: 431026

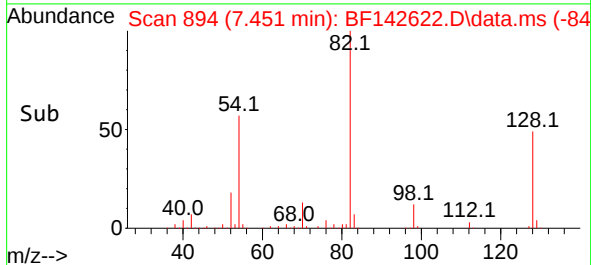
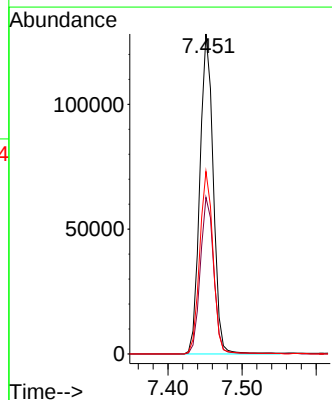
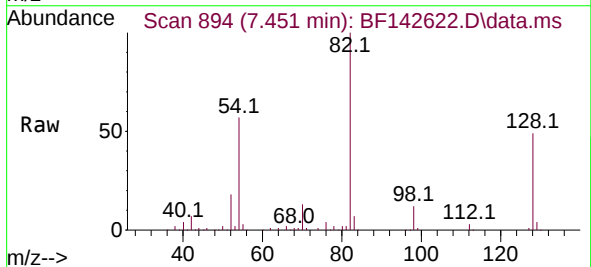
Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	8.0	6.6	10.0
68	5.0	4.1	6.1

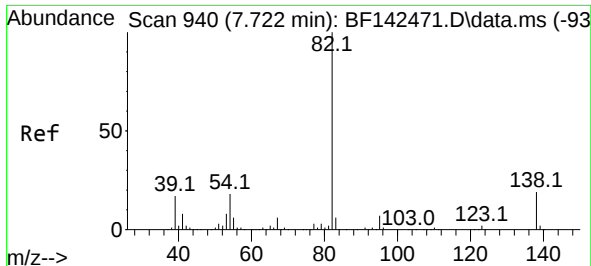


#23
Nitrobenzene-d5
Concen: 20.325 ng
RT: 7.451 min Scan# 894
Delta R.T. -0.023 min
Lab File: BF142622.D
Acq: 04 Jun 2025 22:45

Tgt Ion: 82 Resp: 160663

Ion	Ratio	Lower	Upper
82	100		
128	48.9	37.4	56.2
54	57.0	46.6	70.0

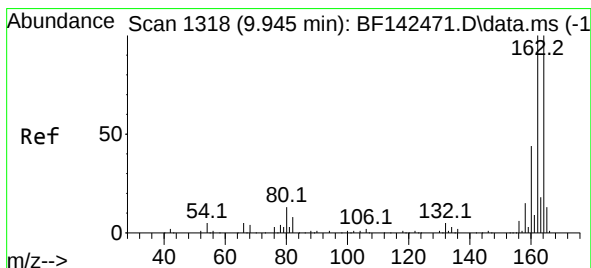
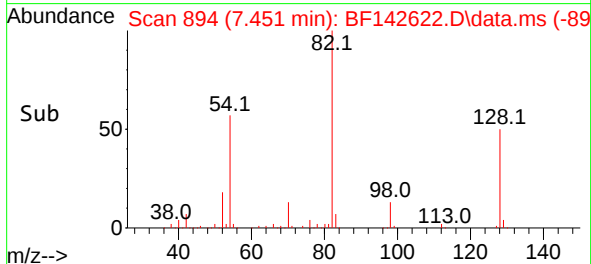
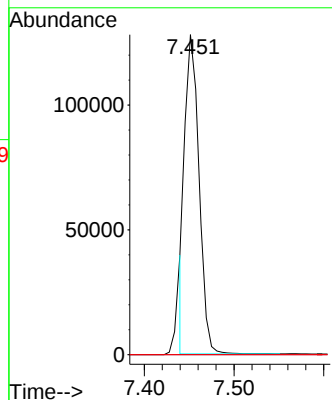
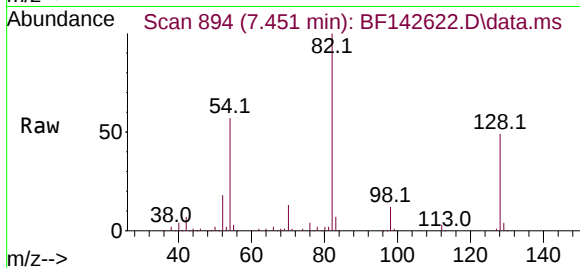




#25
Isophorone
Concen: 10.670 ng
RT: 7.451 min Scan# 89
Delta R.T. -0.282 min
Lab File: BF142622.D
Acq: 04 Jun 2025 22:45

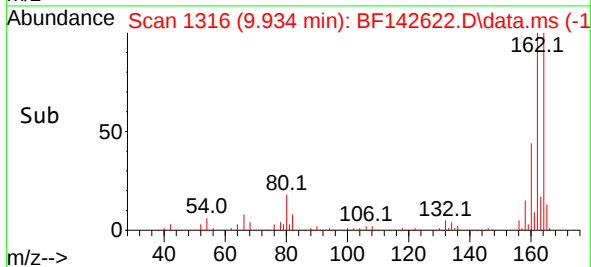
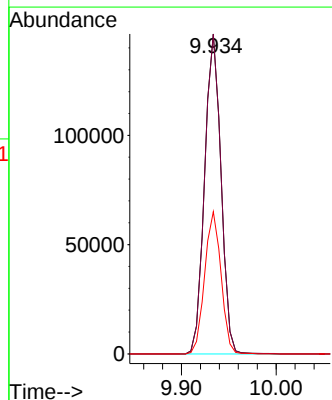
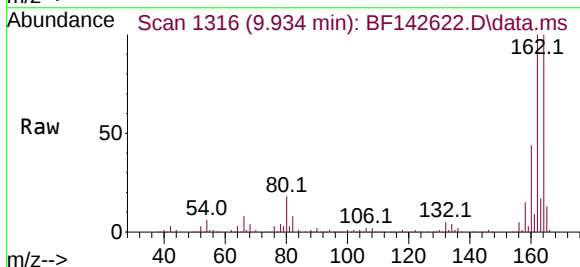
Instrument :
BNA_F
ClientSampleId :

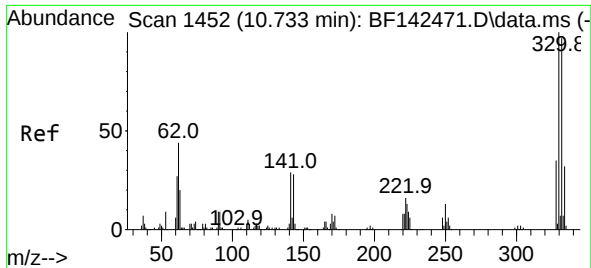
Tgt Ion: 82 Resp: 141020
Ion Ratio Lower Upper
82 100
95 0.0 6.0 9.0#
138 0.0 15.5 23.3#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.934 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142622.D
Acq: 04 Jun 2025 22:45

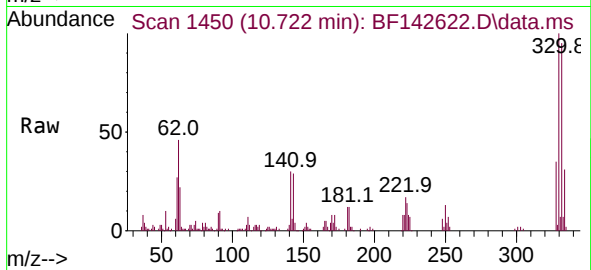
Tgt Ion:164 Resp: 175978
Ion Ratio Lower Upper
164 100
162 99.8 80.2 120.4
160 44.4 35.6 53.4



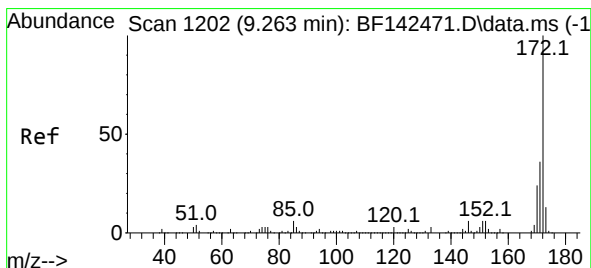
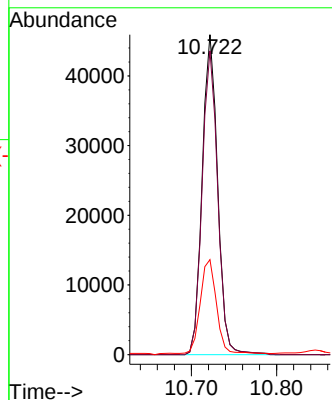
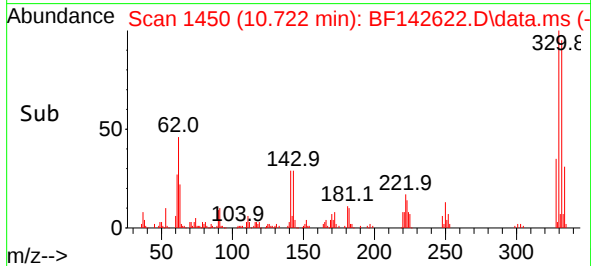


#42
2,4,6-Tribromophenol
Concen: 29.566 ng
RT: 10.722 min Scan# 1452
Delta R.T. -0.017 min
Lab File: BF142622.D
Acq: 04 Jun 2025 22:45

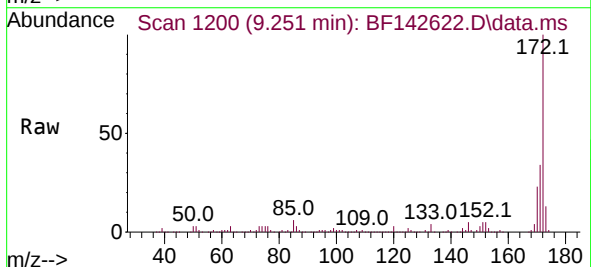
Instrument :
BNA_F
ClientSampleId :



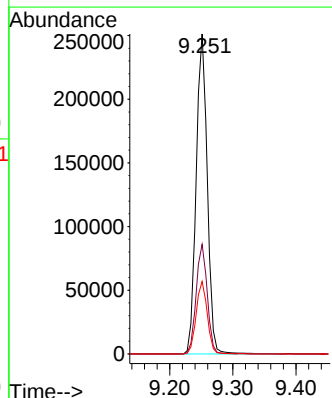
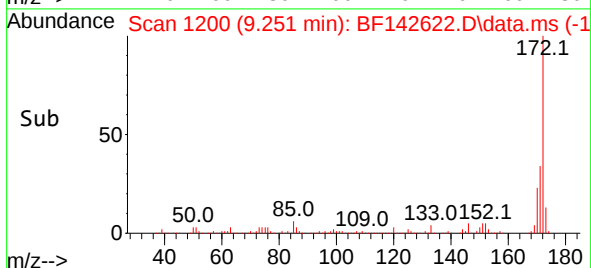
Tgt Ion: 330 Resp: 57747
Ion Ratio Lower Upper
330 100
332 95.7 77.6 116.4
141 32.7 24.6 36.8

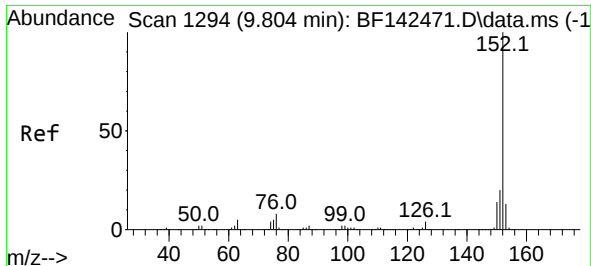


#45
2-Fluorobiphenyl
Concen: 23.467 ng
RT: 9.251 min Scan# 1200
Delta R.T. -0.017 min
Lab File: BF142622.D
Acq: 04 Jun 2025 22:45



Tgt Ion: 172 Resp: 307751
Ion Ratio Lower Upper
172 100
171 34.2 28.6 42.8
170 22.6 18.9 28.3





#49

Acenaphthylene

Concen: 2.134 ng

RT: 9.792 min Scan# 11

Delta R.T. -0.017 min

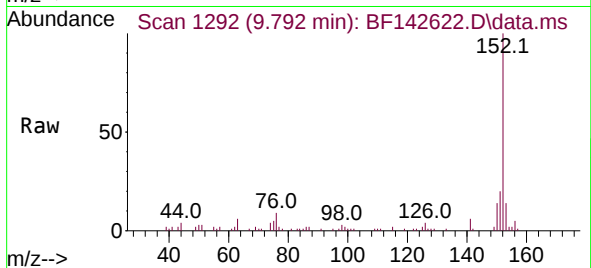
Lab File: BF142622.D

Acq: 04 Jun 2025 22:45

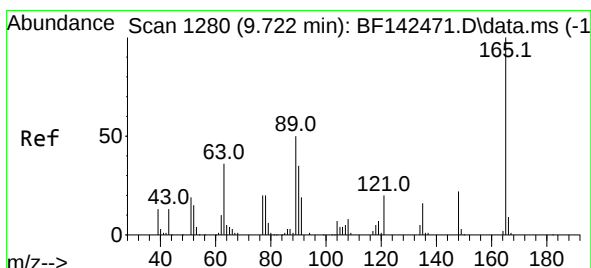
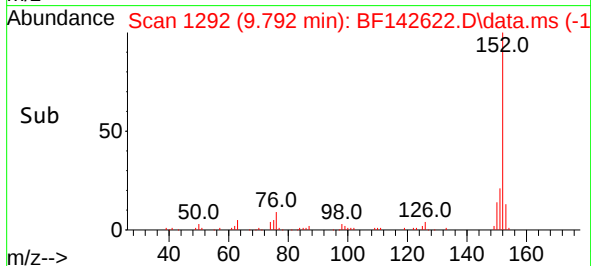
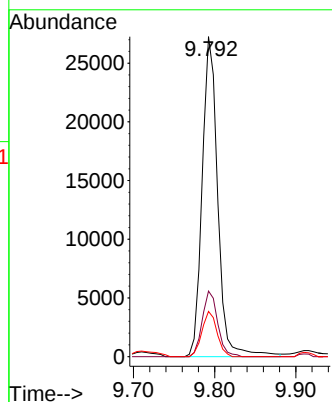
Instrument :

BNA_F

ClientSampleId :



Tgt Ion:	152	Resp:	36351
Ion Ratio	Lower	Upper	
152	100		
151	20.5	15.8	23.8
153	14.1	10.6	15.8



#51

2,6-Dinitrotoluene

Concen: 9.326 ng

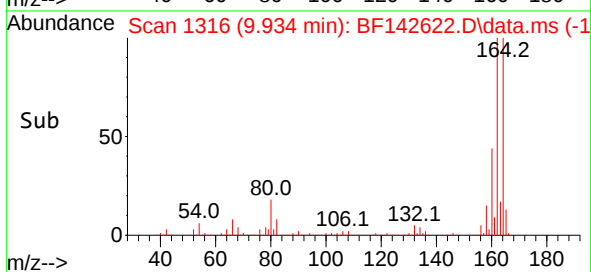
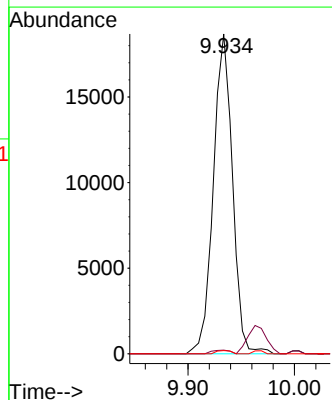
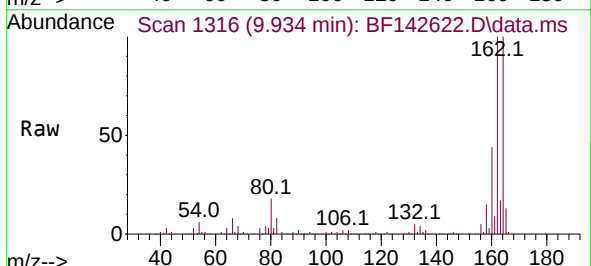
RT: 9.934 min Scan# 1316

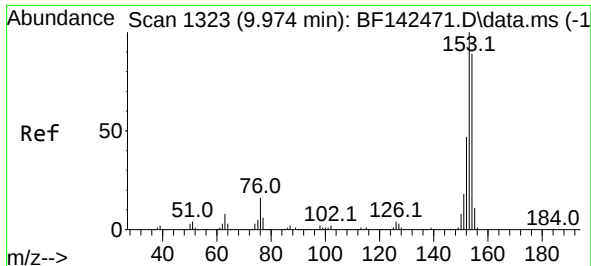
Delta R.T. 0.206 min

Lab File: BF142622.D

Acq: 04 Jun 2025 22:45

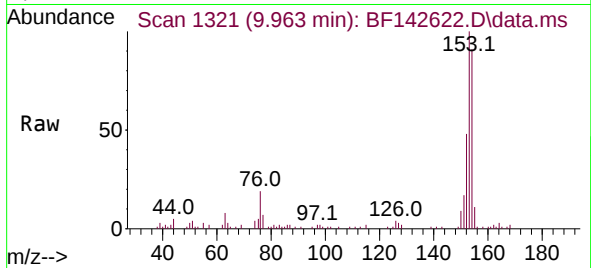
Tgt Ion:	165	Resp:	23373
Ion Ratio	Lower	Upper	
165	100		
63	1.2	42.9	64.3#
89	1.0	40.2	60.4#



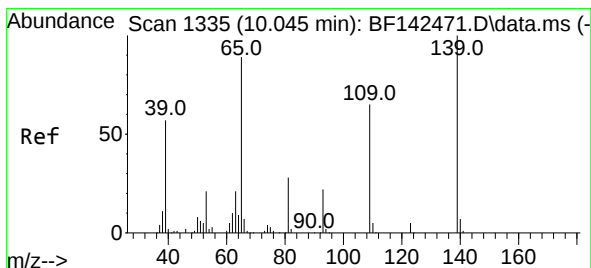
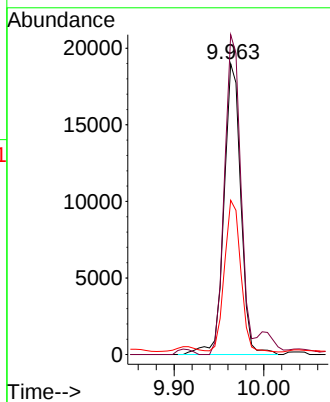
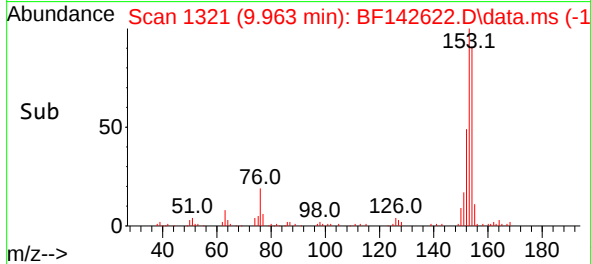


#52
Acenaphthene
Concen: 2.398 ng
RT: 9.963 min Scan# 1323
Delta R.T. -0.017 min
Lab File: BF142622.D
Acq: 04 Jun 2025 22:45

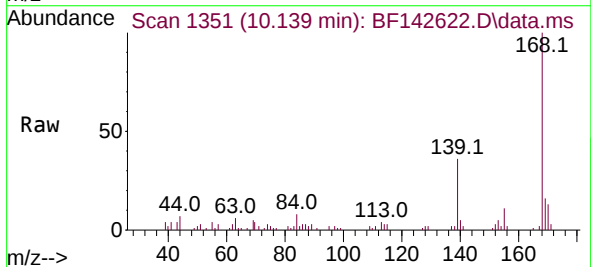
Instrument :
BNA_F
ClientSampleId :



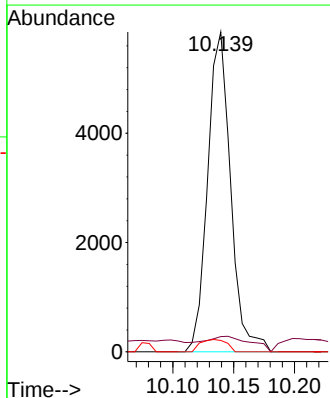
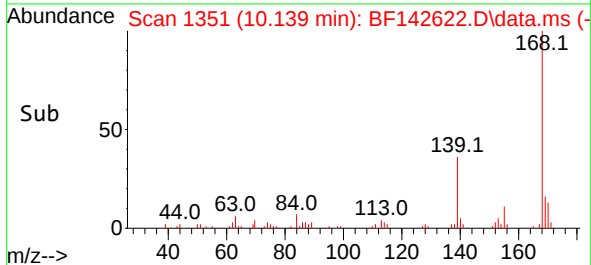
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Ion Ratio Lower Upper
154 100
153 110.0 90.0 135.0
152 53.0 42.6 64.0

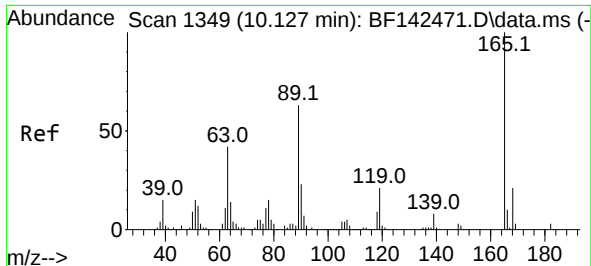


#56
4-Nitrophenol
Concen: 3.808 ng
RT: 10.139 min Scan# 1351
Delta R.T. 0.088 min
Lab File: BF142622.D
Acq: 04 Jun 2025 22:45



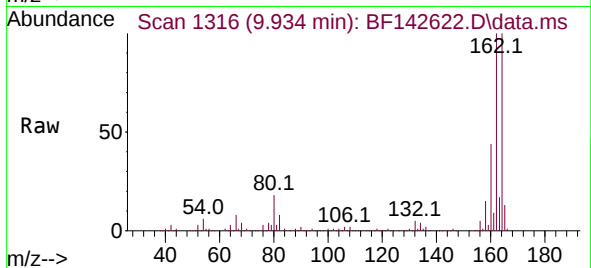
Tgt Ion:139 Resp: 7691
Ion Ratio Lower Upper
139 100
109 4.8 45.1 85.1#
65 3.6 69.7 109.7#



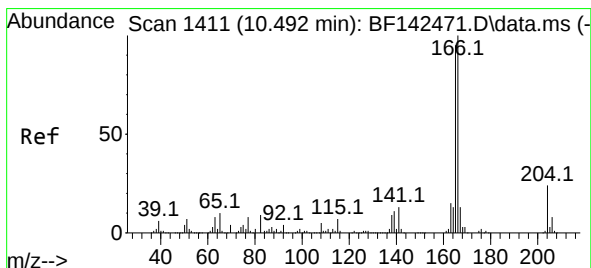
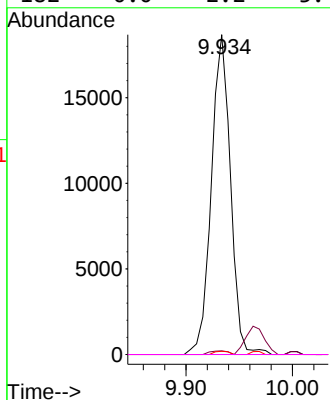
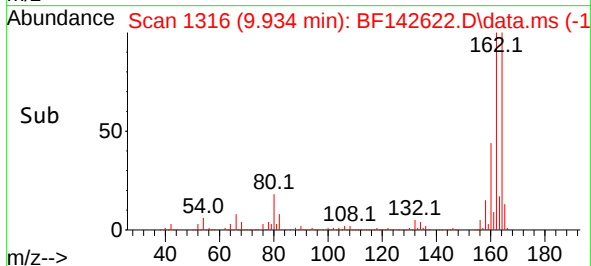


#57
2,4-Dinitrotoluene
Concen: 7.141 ng
RT: 9.934 min Scan# 1409
Delta R.T. -0.200 min
Lab File: BF142622.D
Acq: 04 Jun 2025 22:45

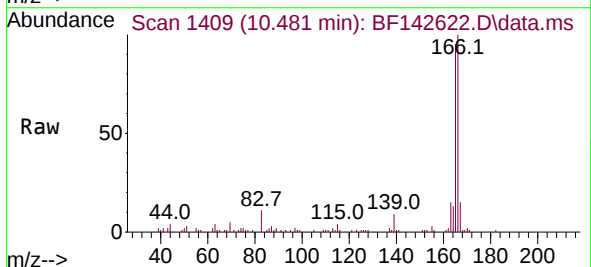
Instrument :
BNA_F
ClientSampleId :



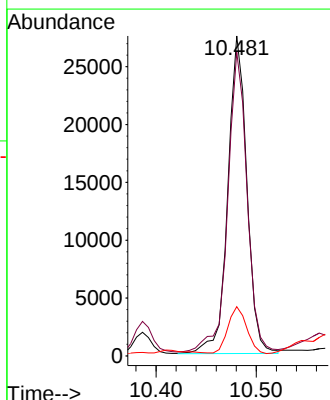
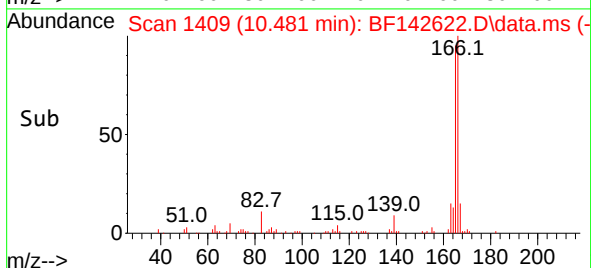
Tgt Ion:165 Resp: 23373
Ion Ratio Lower Upper
165 100
63 1.2 33.6 50.4#
89 1.0 50.2 75.4#
182 0.0 2.2 3.4#

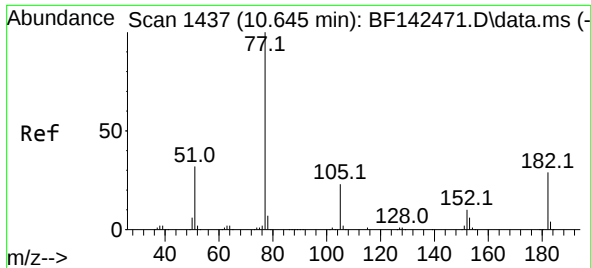


#58
Fluorene
Concen: 3.146 ng
RT: 10.481 min Scan# 1409
Delta R.T. -0.017 min
Lab File: BF142622.D
Acq: 04 Jun 2025 22:45



Tgt Ion:166 Resp: 36372
Ion Ratio Lower Upper
166 100
165 94.9 75.8 113.8
167 15.4 10.6 16.0

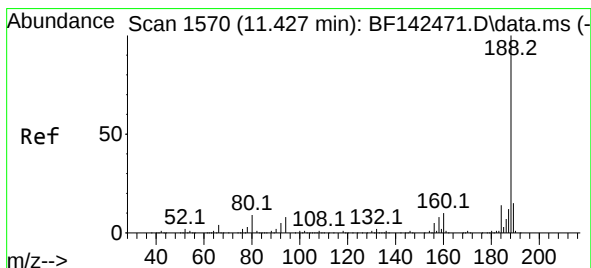
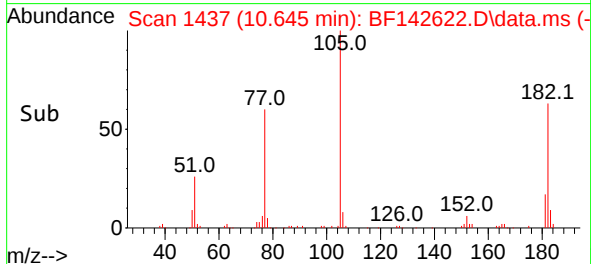
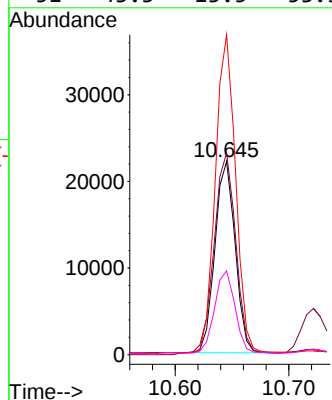
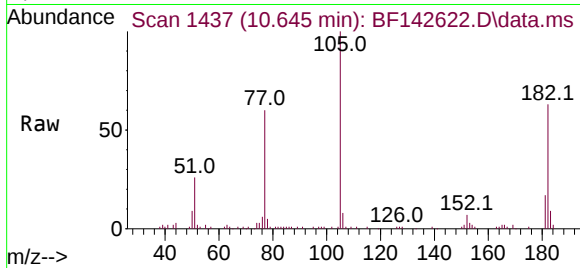




#63
Azobenzene
Concen: 2.674 ng
RT: 10.645 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF142622.D
Acq: 04 Jun 2025 22:45

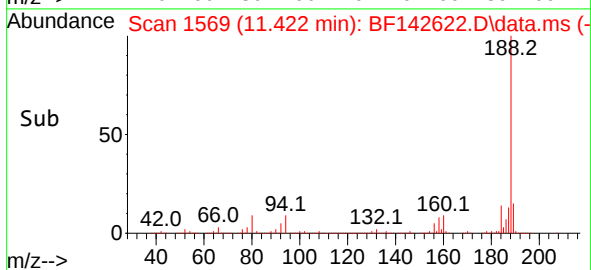
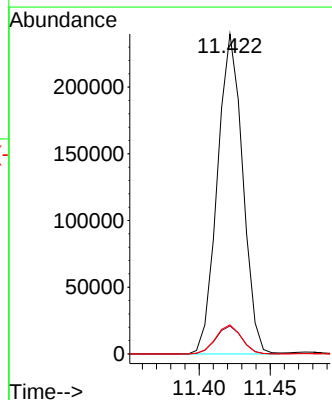
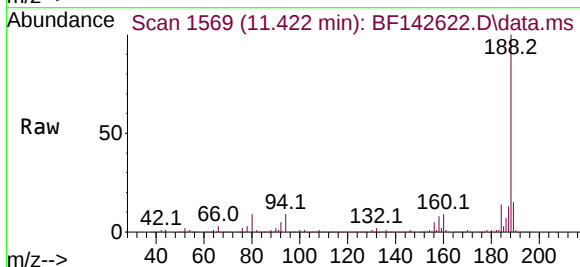
Instrument :
BNA_F
ClientSampleId :

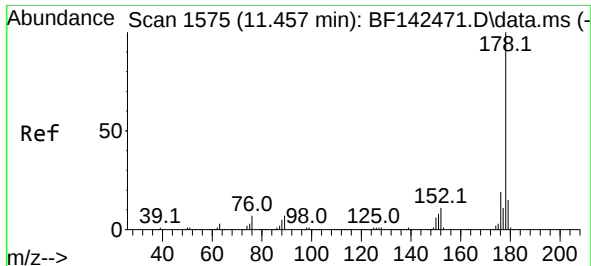
Tgt Ion: 77 Resp: 27240
Ion Ratio Lower Upper
77 100
182 104.4 9.0 49.0#
105 165.6 2.4 42.4#
51 43.3 13.5 53.5



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1569
Delta R.T. -0.012 min
Lab File: BF142622.D
Acq: 04 Jun 2025 22:45

Tgt Ion: 188 Resp: 297515
Ion Ratio Lower Upper
188 100
94 8.7 6.6 10.0
80 9.1 7.4 11.0

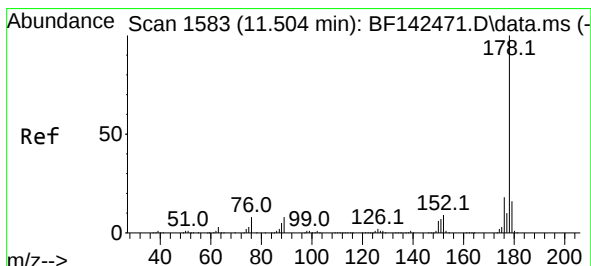
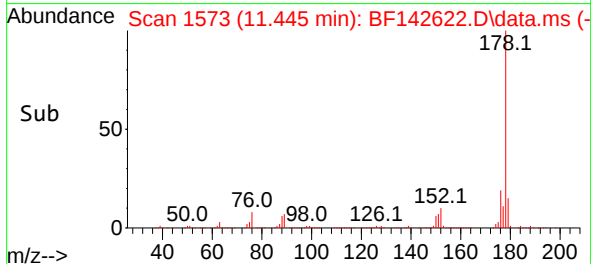
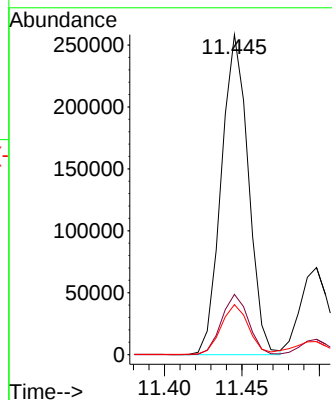
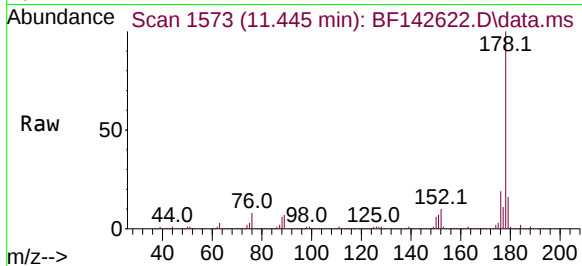




#71
Phenanthrene
Concen: 19.741 ng
RT: 11.445 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF142622.D
Acq: 04 Jun 2025 22:45

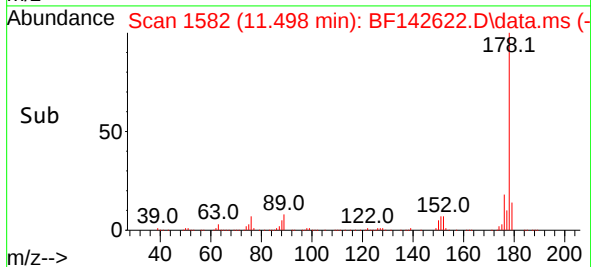
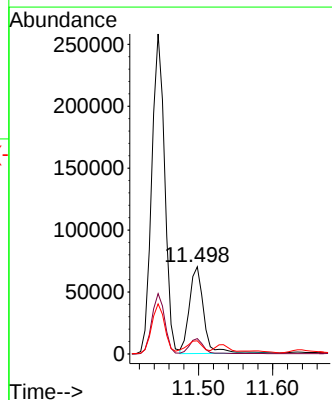
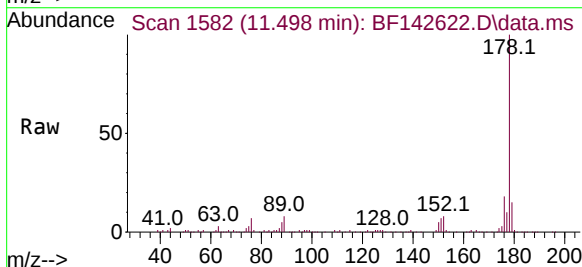
Instrument :
BNA_F
ClientSampleId :

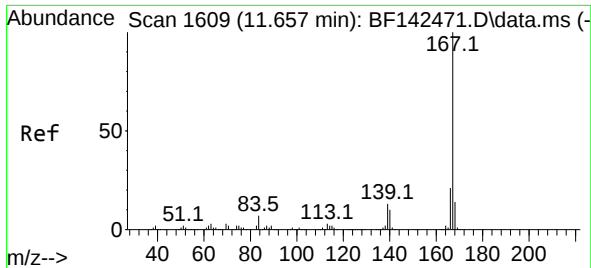
Tgt Ion:178 Resp: 313870
Ion Ratio Lower Upper
178 100
176 18.8 15.4 23.0
179 15.6 12.3 18.5



#72
Anthracene
Concen: 5.796 ng
RT: 11.498 min Scan# 1582
Delta R.T. -0.012 min
Lab File: BF142622.D
Acq: 04 Jun 2025 22:45

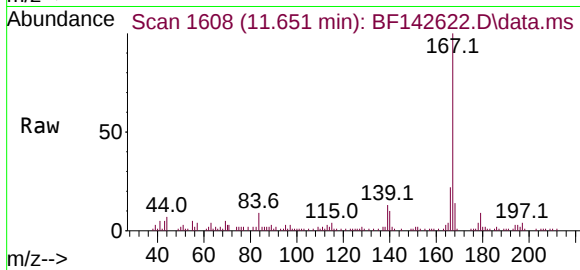
Tgt Ion:178 Resp: 94058
Ion Ratio Lower Upper
178 100
176 17.6 14.6 21.8
179 14.9 12.4 18.6



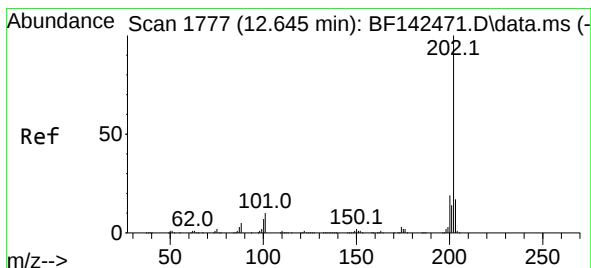
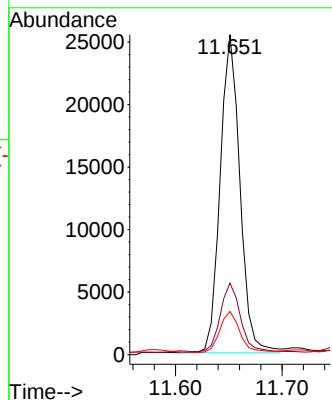
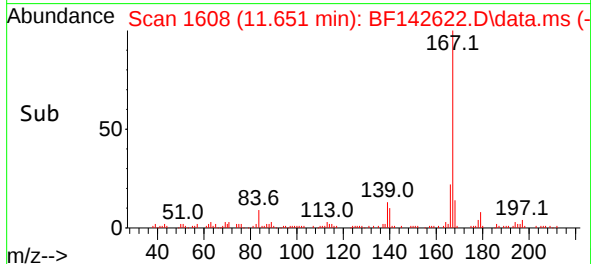


#73
 Carbazole
 Concen: 2.370 ng
 RT: 11.651 min Scan# 1608
 Delta R.T. -0.012 min
 Lab File: BF142622.D
 Acq: 04 Jun 2025 22:45

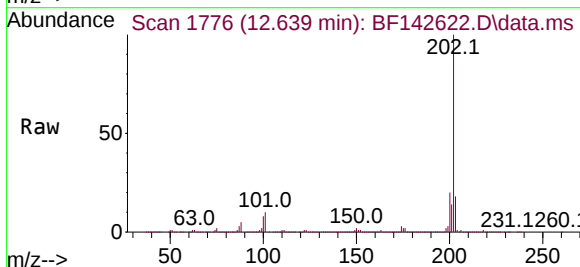
Instrument :
 BNA_F
 ClientSampleId :



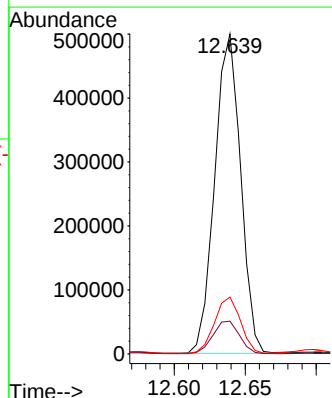
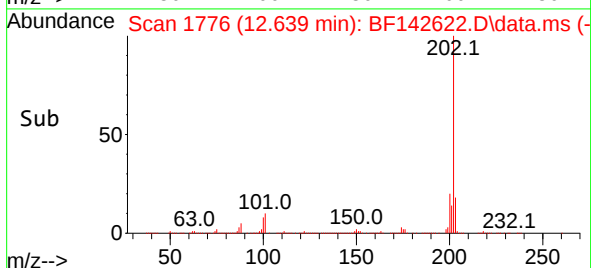
Tgt Ion:167 Resp: 32874
 Ion Ratio Lower Upper
 167 100
 166 22.3 16.9 25.3
 139 13.5 10.2 15.4

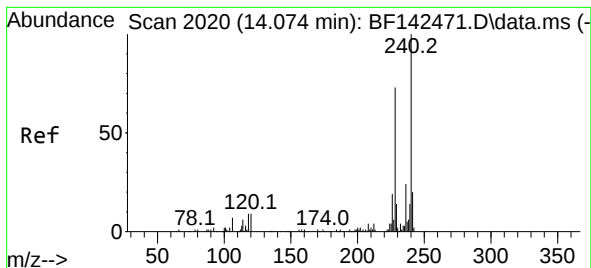


#75
 Fluoranthene
 Concen: 42.662 ng
 RT: 12.639 min Scan# 1776
 Delta R.T. -0.006 min
 Lab File: BF142622.D
 Acq: 04 Jun 2025 22:45



Tgt Ion:202 Resp: 633811
 Ion Ratio Lower Upper
 202 100
 101 10.2 0.0 29.6
 203 17.8 0.0 37.2





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.069 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF142622.D

Acq: 04 Jun 2025 22:45

Instrument :

BNA_F

ClientSampleId :

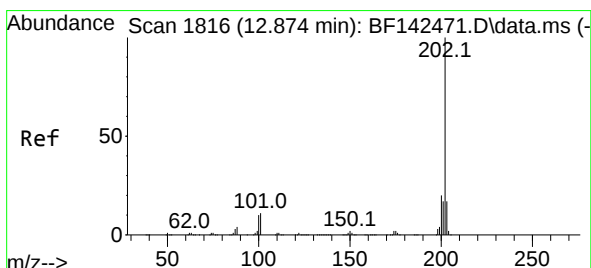
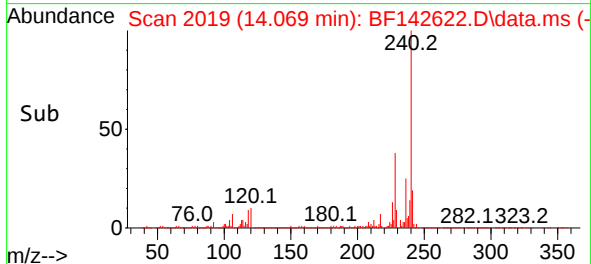
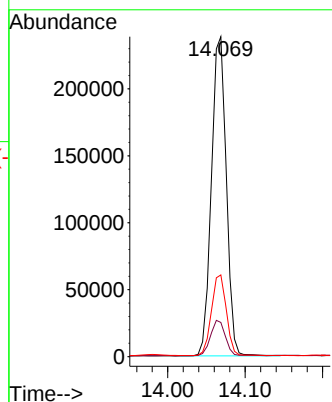
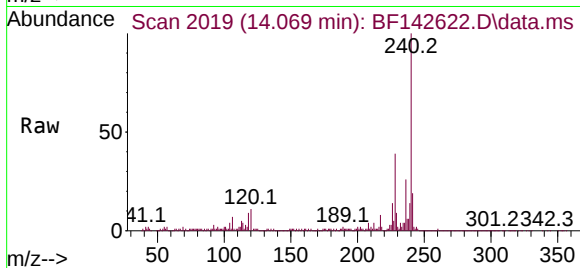
Tgt Ion:240 Resp: 318437

Ion Ratio Lower Upper

240 100

120 10.7 7.5 11.3

236 25.5 19.6 29.4



#78

Pyrene

Concen: 19.692 ng

RT: 12.869 min Scan# 1815

Delta R.T. -0.006 min

Lab File: BF142622.D

Acq: 04 Jun 2025 22:45

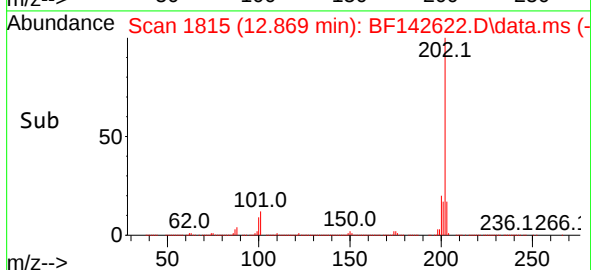
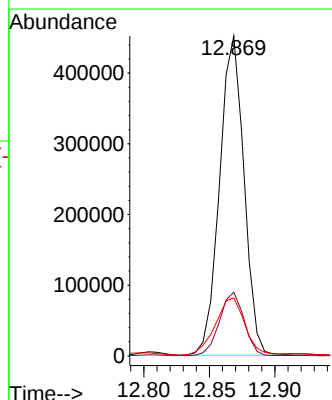
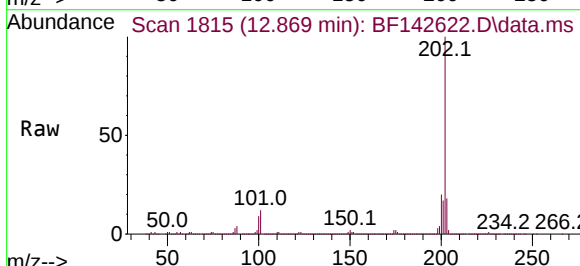
Tgt Ion:202 Resp: 584973

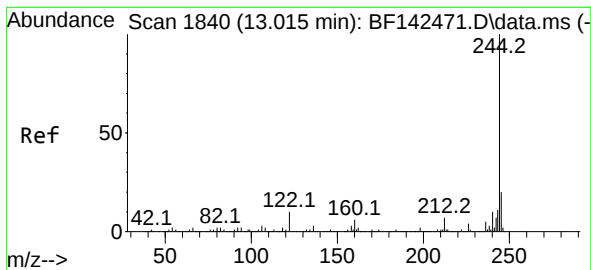
Ion Ratio Lower Upper

202 100

200 19.9 16.1 24.1

203 18.1 13.9 20.9





#79

Terphenyl-d14

Concen: 14.634 ng

RT: 13.004 min Scan# 1838

Delta R.T. -0.012 min

Lab File: BF142622.D

Acq: 04 Jun 2025 22:45

Instrument :

BNA_F

ClientSampleId :

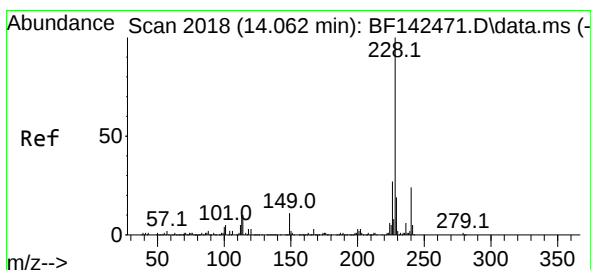
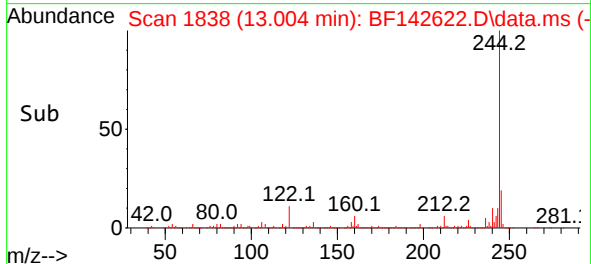
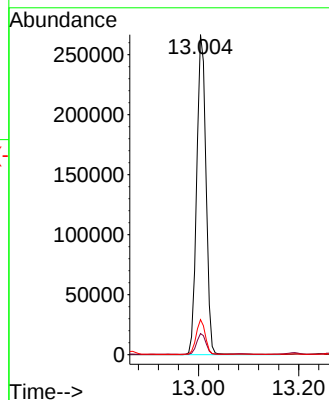
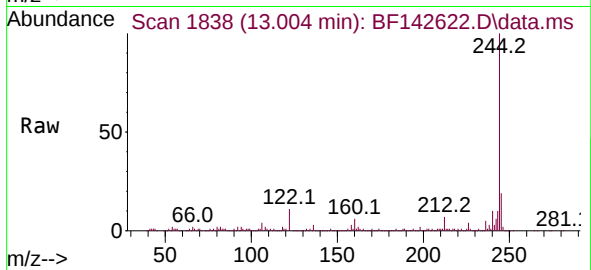
Tgt Ion:244 Resp: 340999

Ion Ratio Lower Upper

244 100

212 6.6 5.3 7.9

122 10.9 8.2 12.2



#81

Benzo(a)anthracene

Concen: 14.920 ng

RT: 14.057 min Scan# 2017

Delta R.T. -0.006 min

Lab File: BF142622.D

Acq: 04 Jun 2025 22:45

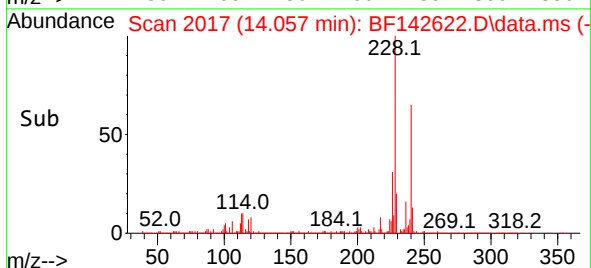
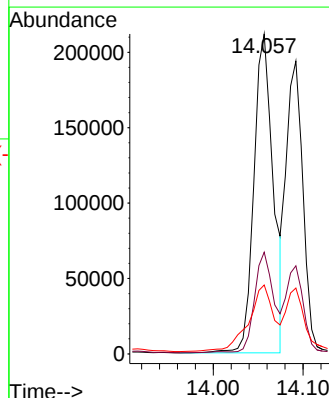
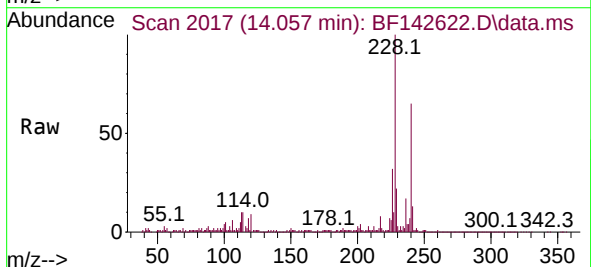
Tgt Ion:228 Resp: 317249

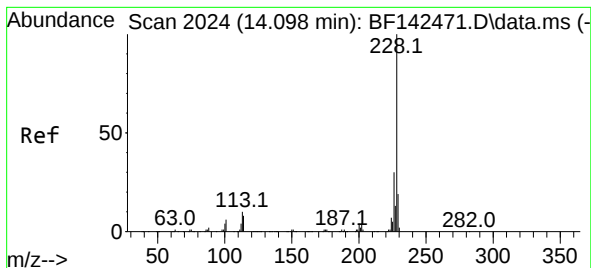
Ion Ratio Lower Upper

228 100

226 31.8 21.2 31.8

229 21.5 15.5 23.3





#83

Chrysene

Concen: 12.991 ng

RT: 14.092 min Scan# 20

Delta R.T. -0.012 min

Lab File: BF142622.D

Acq: 04 Jun 2025 22:45

Instrument :

BNA_F

ClientSampleId :

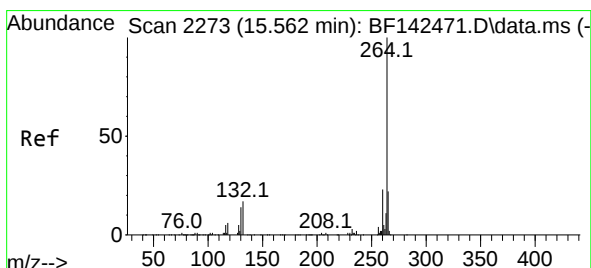
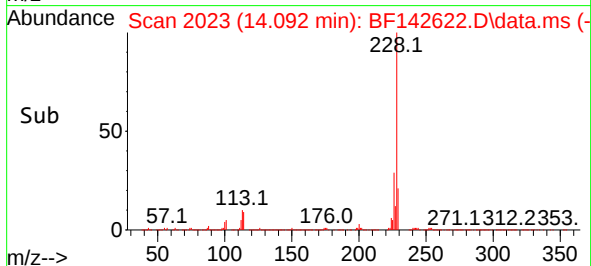
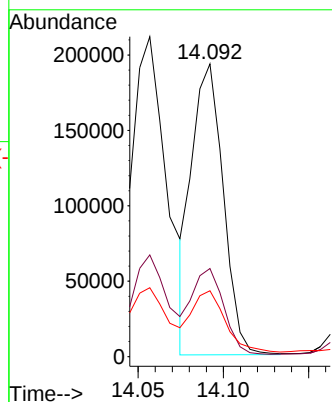
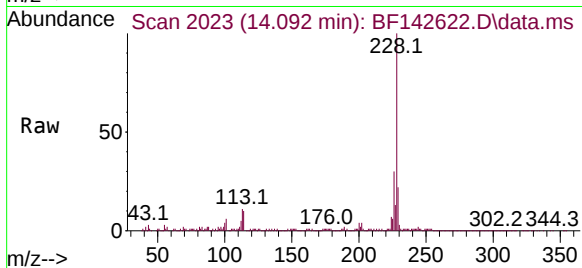
Tgt Ion:228 Resp: 248207

Ion Ratio Lower Upper

228 100

226 30.1 23.8 35.6

229 22.5 15.4 23.2



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.563 min Scan# 2273

Delta R.T. -0.006 min

Lab File: BF142622.D

Acq: 04 Jun 2025 22:45

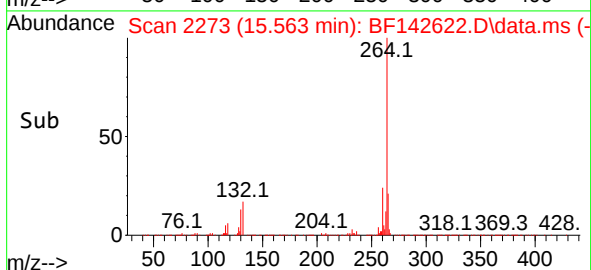
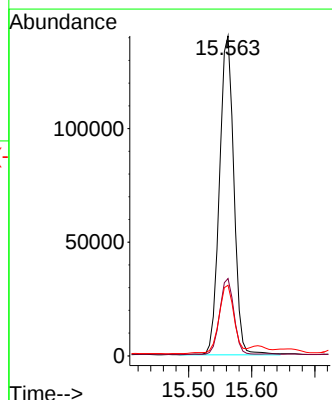
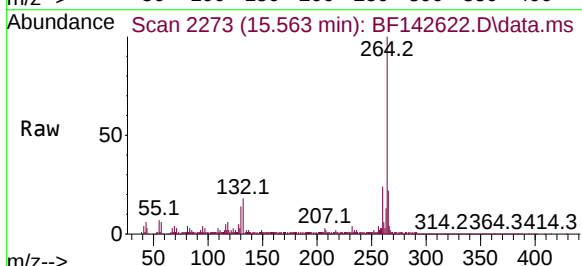
Tgt Ion:264 Resp: 222205

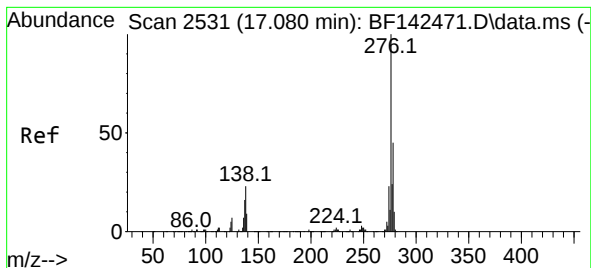
Ion Ratio Lower Upper

264 100

260 24.2 18.6 28.0

265 22.1 17.7 26.5





#87

Indeno(1,2,3-cd)pyrene

Concen: 5.462 ng

RT: 17.068 min Scan# 2198

Delta R.T. -0.023 min

Lab File: BF142622.D

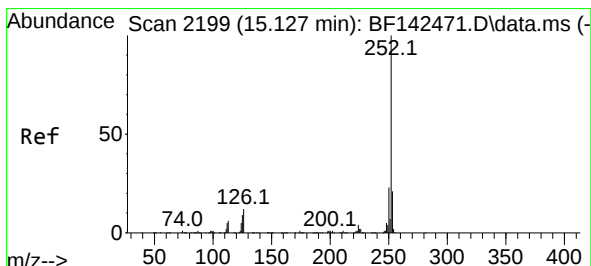
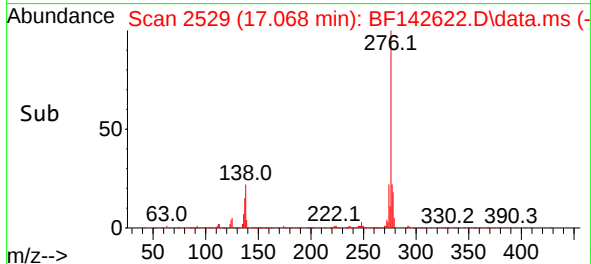
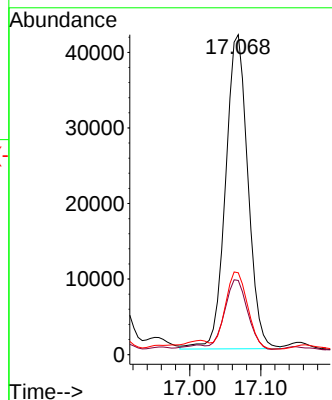
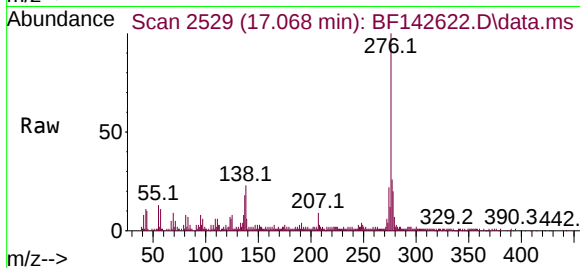
Acq: 04 Jun 2025 22:45

Instrument :

BNA_F

ClientSampleId :

Tgt Ion:276	Resp:	91110
Ion Ratio	Lower	Upper
276	100	
138	22.8	19.9 29.9
277	24.5	20.2 30.2



#88

Benzo(b)fluoranthene

Concen: 26.123 ng

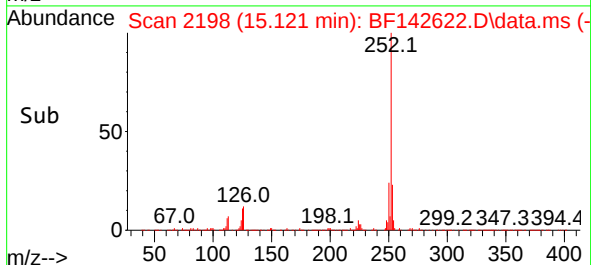
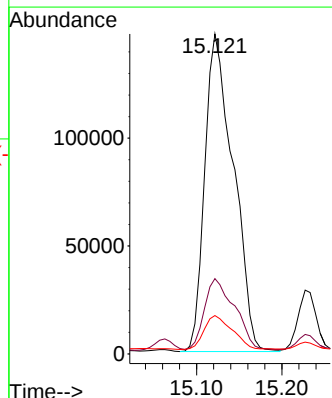
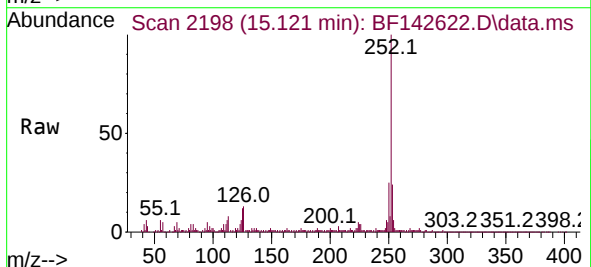
RT: 15.121 min Scan# 2198

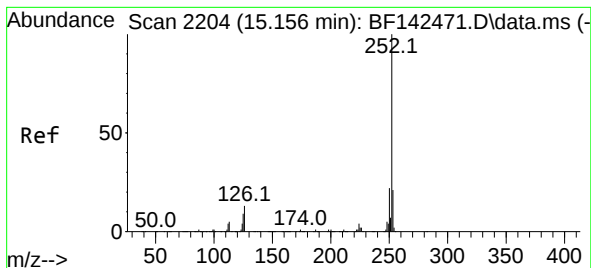
Delta R.T. -0.006 min

Lab File: BF142622.D

Acq: 04 Jun 2025 22:45

Tgt Ion:252	Resp:	343546
Ion Ratio	Lower	Upper
252	100	
253	23.5	17.0 25.4
125	12.0	7.4 11.0





#89

Benzo(k)fluoranthene

Concen: 27.891 ng

RT: 15.121 min Scan# 21

Delta R.T. -0.041 min

Lab File: BF142622.D

Acq: 04 Jun 2025 22:45

Instrument :

BNA_F

ClientSampleId :

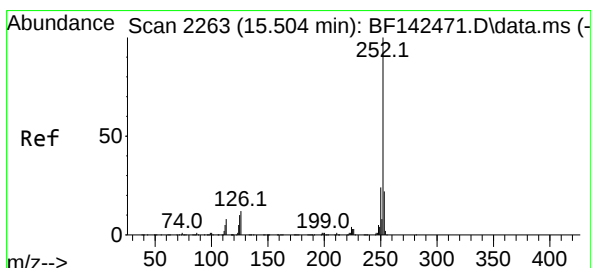
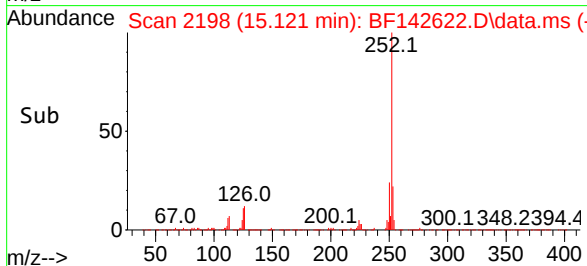
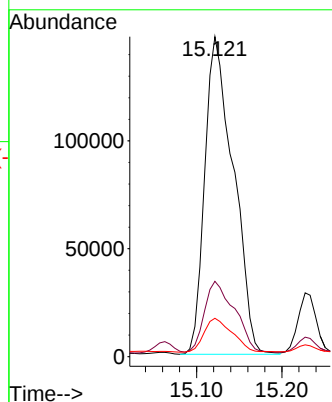
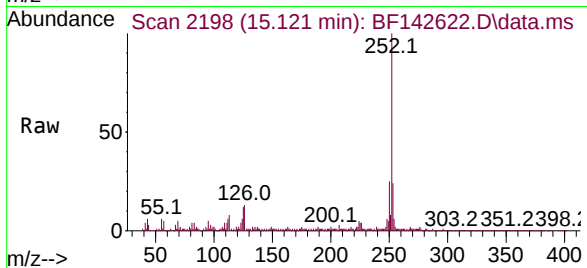
Tgt Ion:252 Resp: 343546

Ion Ratio Lower Upper

252 100

253 23.5 17.0 25.4

125 12.0 7.3 10.9#



#90

Benzo(a)pyrene

Concen: 13.996 ng

RT: 15.498 min Scan# 2262

Delta R.T. -0.012 min

Lab File: BF142622.D

Acq: 04 Jun 2025 22:45

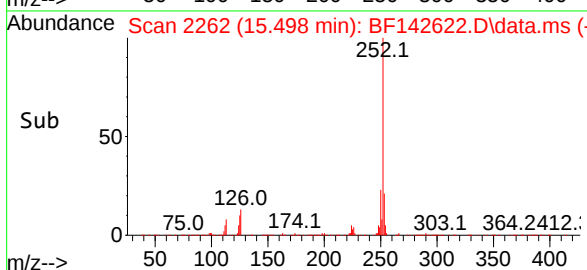
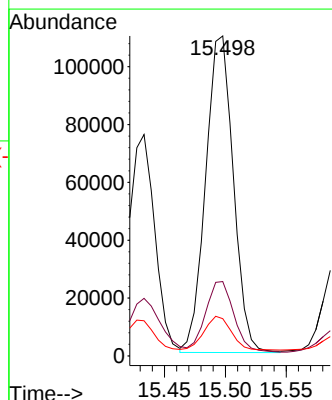
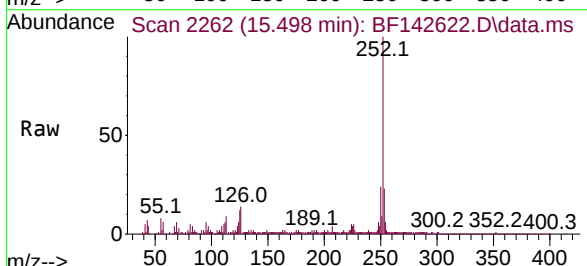
Tgt Ion:252 Resp: 173503

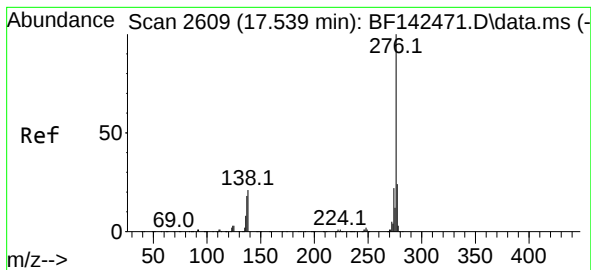
Ion Ratio Lower Upper

252 100

253 23.2 17.4 26.0

125 11.6 7.9 11.9





#92

Benzo(g,h,i)perylene

Concen: 6.564 ng

RT: 17.521 min Scan# 20

Delta R.T. -0.035 min

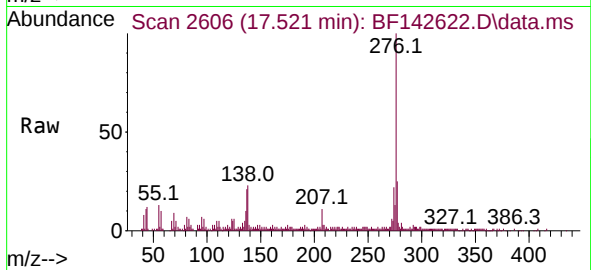
Lab File: BF142622.D

Acq: 04 Jun 2025 22:45

Instrument :

BNA_F

ClientSampleId :



Tgt Ion:276 Resp: 88829

Ion Ratio Lower Upper

276 100

277 24.6 19.2 28.8

138 23.3 16.8 25.2

