

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080625\
 Data File : BF143334.D
 Acq On : 06 Aug 2025 17:13
 Operator : RC/JU
 Sample : Q2774-07
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

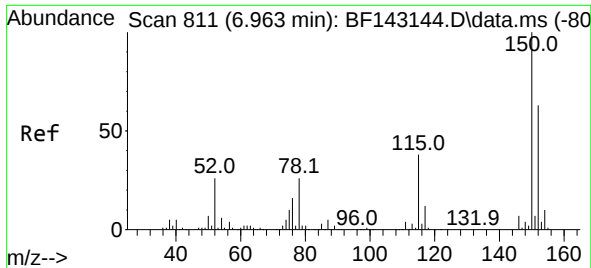
Instrument :
 BNA_F
 ClientSampleId :
 RT3826

Quant Time: Aug 06 17:30:58 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jul 17 15:14:05 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.963	152	84345	20.000	ng	0.00
21) Naphthalene-d8	8.239	136	311702	20.000	ng	0.00
39) Acenaphthene-d10	10.004	164	126375	20.000	ng	0.00
64) Phenanthrene-d10	11.504	188	163073	20.000	ng	# 0.02
76) Chrysene-d12	14.145	240	165920	20.000	ng	0.02
86) Perylene-d12	15.651	264	138999	20.000	ng	0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.598	112	386211	72.460	ng	0.01
7) Phenol-d6	6.592	99	440857	65.714	ng	0.00
23) Nitrobenzene-d5	7.516	82	278631	44.558	ng	0.00
42) 2,4,6-Tribromophenol	10.792	330	98005	75.069	ng	0.00
45) 2-Fluorobiphenyl	9.316	172	554238	59.979	ng	0.00
79) Terphenyl-d14	13.086	244	423420	37.976	ng	0.02
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.516	70	37965	8.821	ng	# 78
25) Isophorone	7.516	82	275894	24.993	ng	# 66
32) Benzoic acid	7.963	122	1260	5.565	ng	# 57
51) 2,6-Dinitrotoluene	9.775	165	3389	2.022	ng	# 36
53) 3-Nitroaniline	9.957	138	6365	3.247	ng	# 17
54) 2,4-Dinitrophenol	10.222	184	1140	8.040	ng	# 27
62) 4-Nitroaniline	10.469	138	15309	9.113	ng	87
63) Azobenzene	10.710	77	26618	3.137	ng	# 25
65) 4,6-Dinitro-2-methylph...	10.622	198	973	6.422	ng	# 1
66) n-Nitrosodiphenylamine	10.669	169	19931	3.471	ng	# 57
71) Phenanthrene	11.527	178	173215	20.005	ng	# 81
72) Anthracene	11.580	178	25990	2.943	ng	# 24
73) Carbazole	11.727	167	18282	2.371	ng	# 1
74) Di-n-butylphthalate	12.063	149	26046	2.985	ng	# 40
75) Fluoranthene	12.727	202	319035	40.143	ng	94
78) Pyrene	12.727	202	319035	22.530	ng	97
81) Benzo(a)anthracene	14.133	228	104763	9.431	ng	95
83) Chrysene	14.168	228	95168	9.529	ng	97
84) Bis(2-ethylhexyl)phtha...	14.110	149	15435	2.352	ng	# 75
87) Indeno(1,2,3-cd)pyrene	17.192	276	38349	3.913	ng	95
88) Benzo(b)fluoranthene	15.204	252	154864	18.237	ng	# 76
89) Benzo(k)fluoranthene	15.204	252	154864	20.437	ng	# 76
90) Benzo(a)pyrene	15.586	252	59925	7.659	ng	# 69
92) Benzo(g,h,i)perylene	17.662	276	35945	4.658	ng	# 89

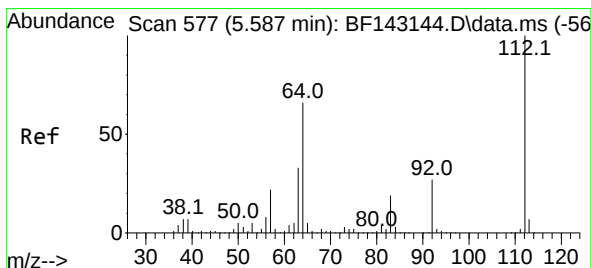
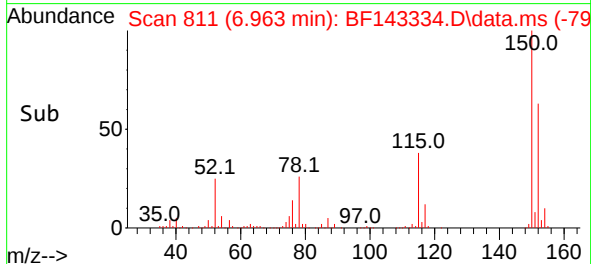
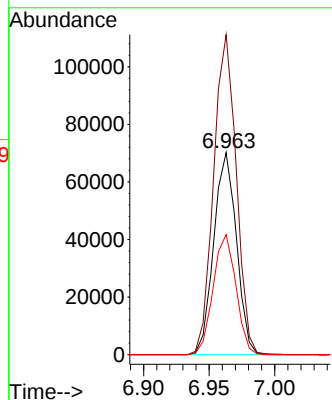
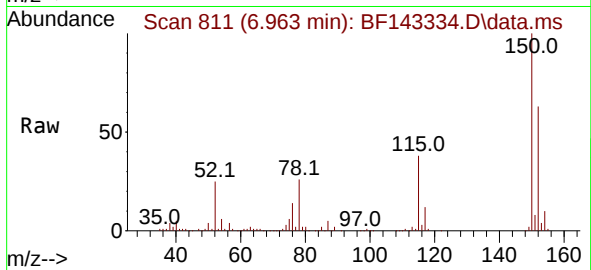
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.963 min Scan# 811
Delta R.T. -0.000 min
Lab File: BF143334.D
Acq: 06 Aug 2025 17:13

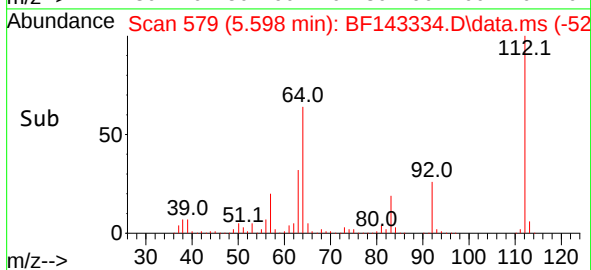
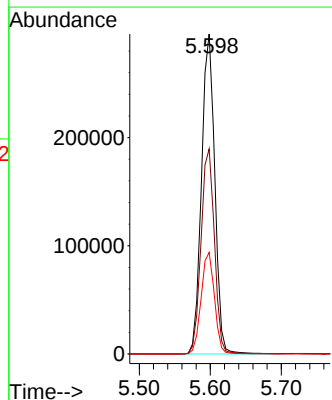
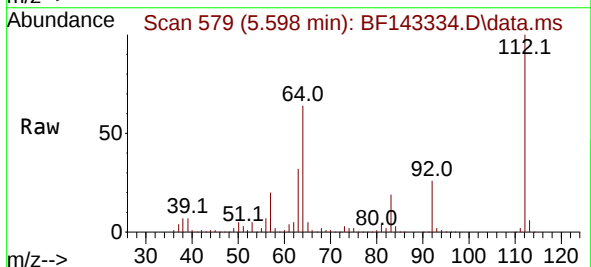
Instrument :
BNA_F
ClientSampleId :
RT3826

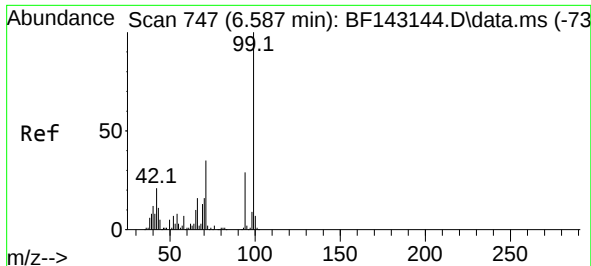
Tgt Ion:152 Resp: 84345
Ion Ratio Lower Upper
152 100
150 158.3 128.2 192.4
115 59.5 47.9 71.9



#5
2-Fluorophenol
Concen: 72.460 ng
RT: 5.598 min Scan# 579
Delta R.T. 0.012 min
Lab File: BF143334.D
Acq: 06 Aug 2025 17:13

Tgt Ion:112 Resp: 386211
Ion Ratio Lower Upper
112 100
64 64.1 53.1 79.7
63 31.8 26.6 40.0

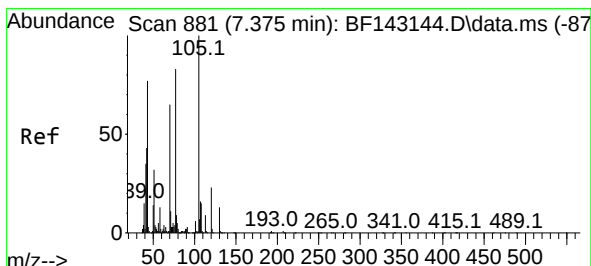
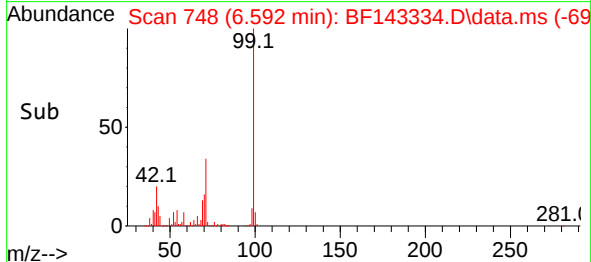
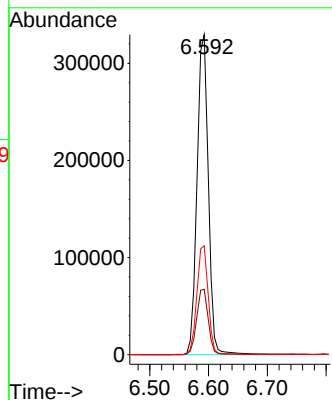
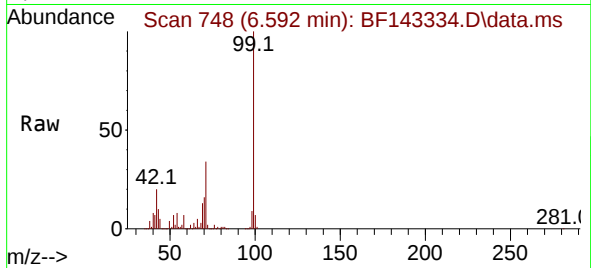




#7
Phenol-d6
Concen: 65.714 ng
RT: 6.592 min Scan# 74
Delta R.T. 0.006 min
Lab File: BF143334.D
Acq: 06 Aug 2025 17:13

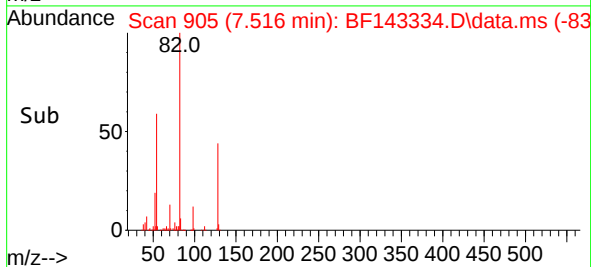
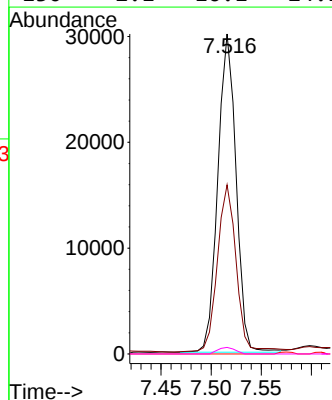
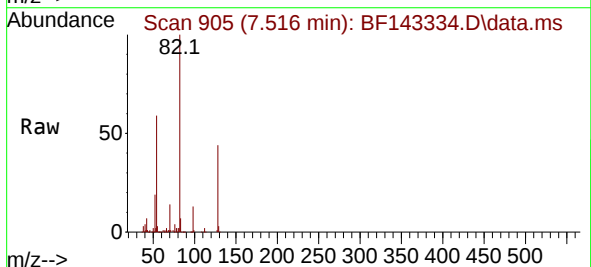
Instrument :
BNA_F
ClientSampleId :
RT3826

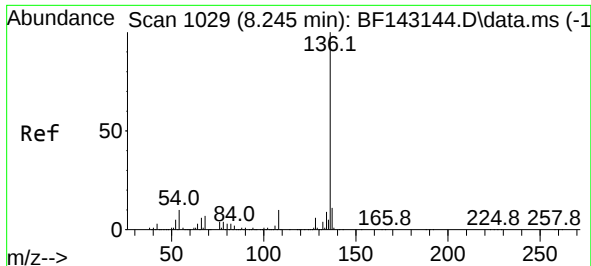
Tgt Ion: 99 Resp: 440857
Ion Ratio Lower Upper
99 100
42 20.5 17.0 25.6
71 34.1 27.7 41.5



#19
n-Nitroso-di-n-propylamine
Concen: 8.821 ng
RT: 7.516 min Scan# 905
Delta R.T. 0.141 min
Lab File: BF143334.D
Acq: 06 Aug 2025 17:13

Tgt Ion: 70 Resp: 37965
Ion Ratio Lower Upper
70 100
42 52.9 52.5 78.7
101 0.0 7.6 11.4#
130 2.1 16.1 24.1#

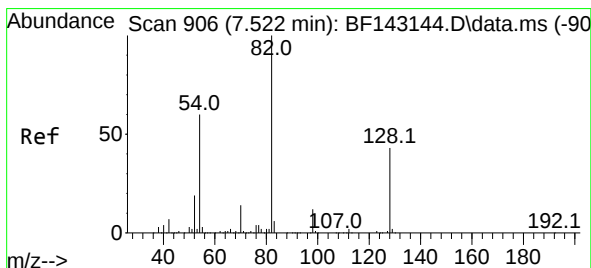
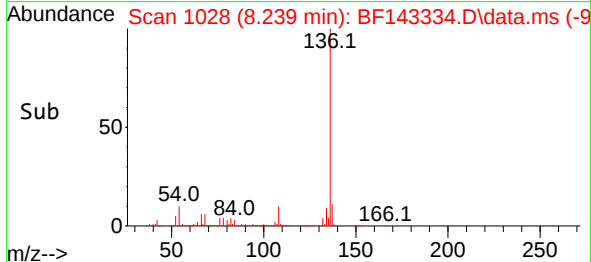
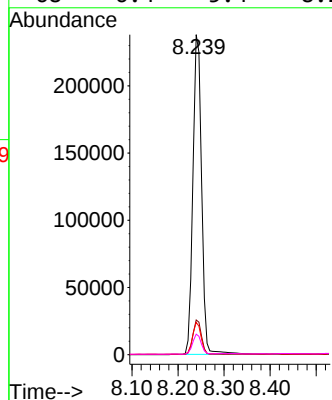
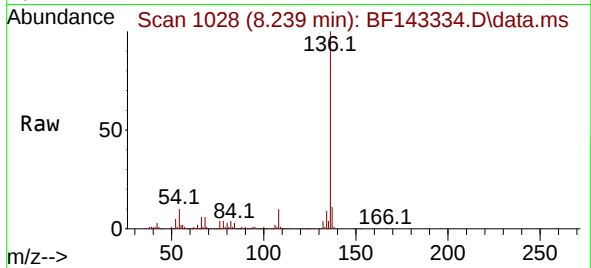




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.239 min Scan# 1028
Delta R.T. -0.006 min
Lab File: BF143334.D
Acq: 06 Aug 2025 17:13

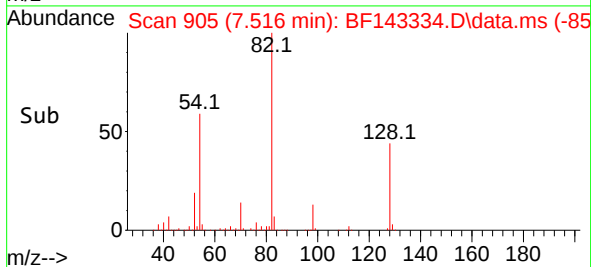
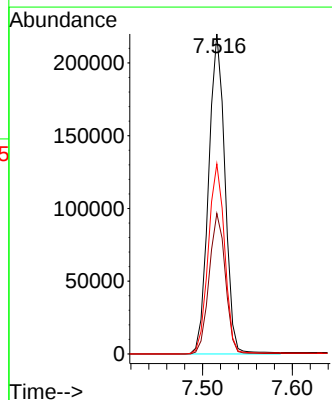
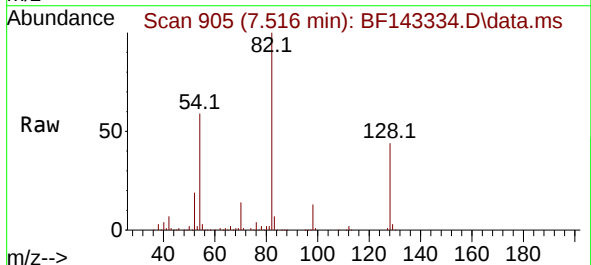
Instrument :
BNA_F
ClientSampleId :
RT3826

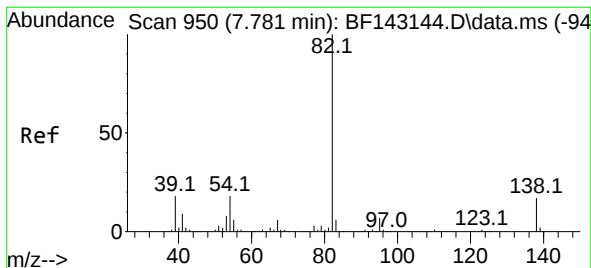
Tgt Ion:	136	Resp:	311702
Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	13.0
54	10.1	8.2	12.2
68	6.4	5.4	8.2



#23
Nitrobenzene-d5
Concen: 44.558 ng
RT: 7.516 min Scan# 905
Delta R.T. -0.006 min
Lab File: BF143334.D
Acq: 06 Aug 2025 17:13

Tgt Ion:	82	Resp:	278631
Ion	Ratio	Lower	Upper
82	100		
128	43.9	33.6	50.4
54	59.4	47.1	70.7





#25

Isophorone

Concen: 24.993 ng

RT: 7.516 min Scan# 90

Delta R.T. -0.265 min

Lab File: BF143334.D

Acq: 06 Aug 2025 17:13

Instrument :

BNA_F

ClientSampleId :

RT3826

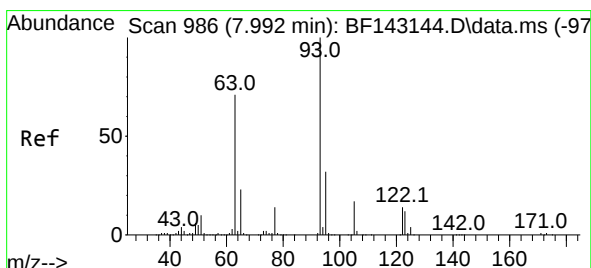
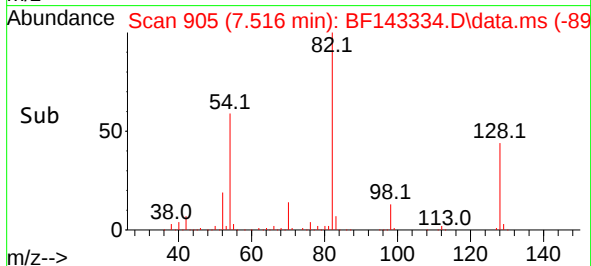
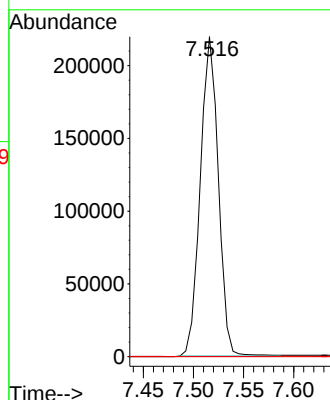
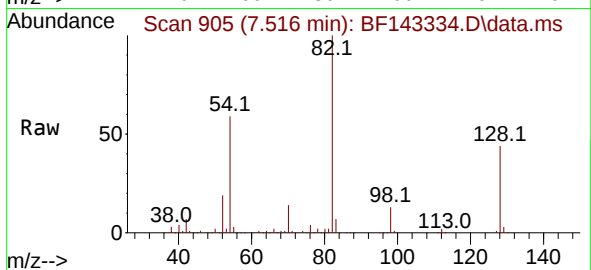
Tgt Ion: 82 Resp: 275894

Ion Ratio Lower Upper

82 100

95 0.1 5.5 8.3#

138 0.0 13.8 20.8#



#32

Benzoic acid

Concen: 5.565 ng

RT: 7.963 min Scan# 981

Delta R.T. -0.029 min

Lab File: BF143334.D

Acq: 06 Aug 2025 17:13

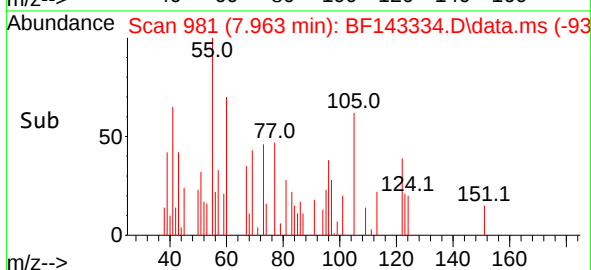
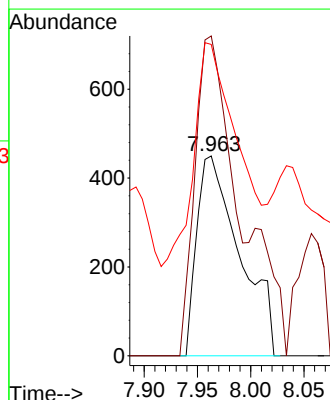
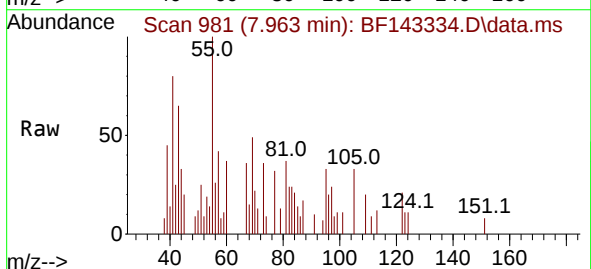
Tgt Ion:122 Resp: 1260

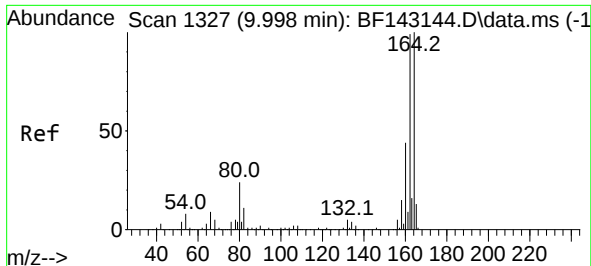
Ion Ratio Lower Upper

122 100

105 160.0 104.8 144.8#

77 155.8 77.6 117.6#

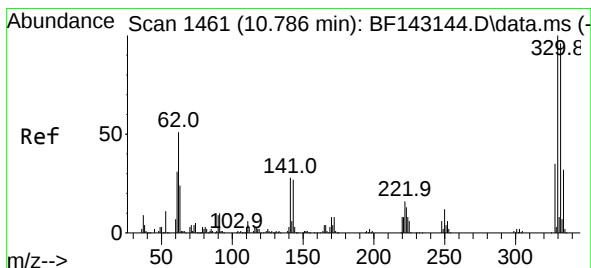
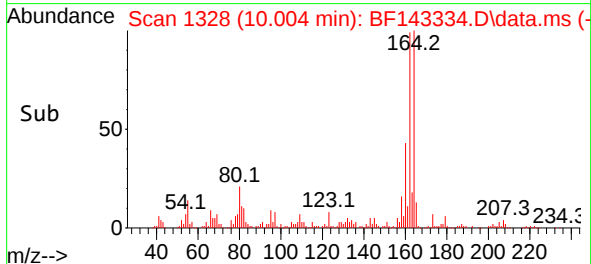
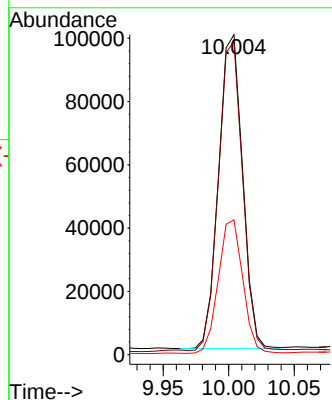
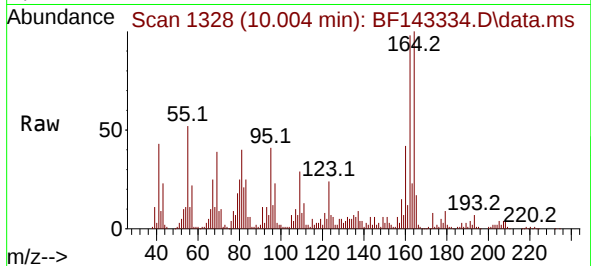




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.004 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF143334.D
Acq: 06 Aug 2025 17:13

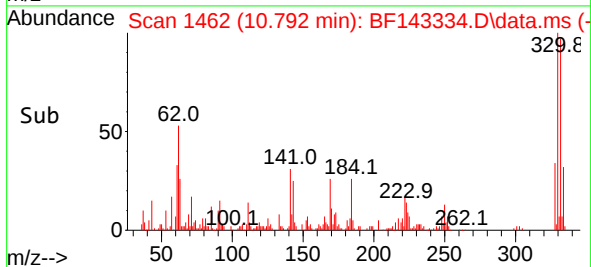
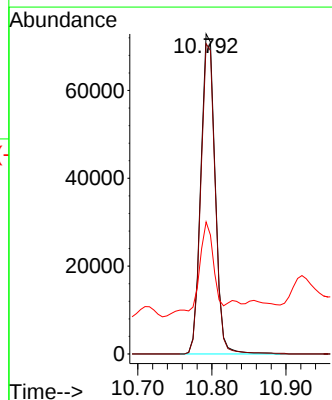
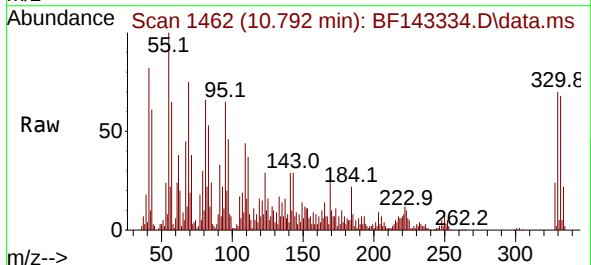
Instrument :
BNA_F
ClientSampleId :
RT3826

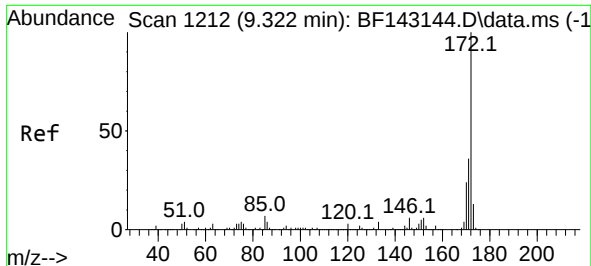
Tgt Ion:164 Resp: 126375
Ion Ratio Lower Upper
164 100
162 97.8 79.0 118.6
160 42.1 35.1 52.7



#42
2,4,6-Tribromophenol
Concen: 75.069 ng
RT: 10.792 min Scan# 1462
Delta R.T. 0.006 min
Lab File: BF143334.D
Acq: 06 Aug 2025 17:13

Tgt Ion:330 Resp: 98005
Ion Ratio Lower Upper
330 100
332 96.9 76.7 115.1
141 31.5 23.3 34.9

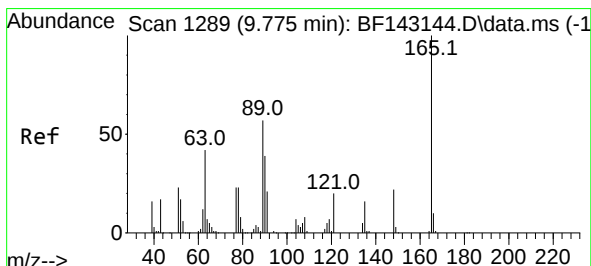
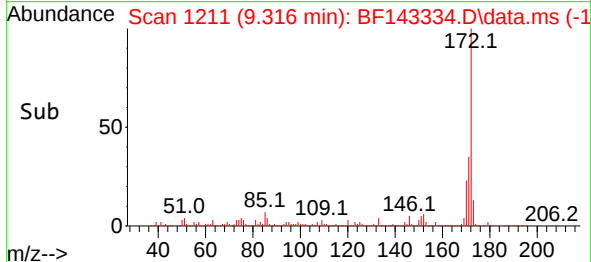
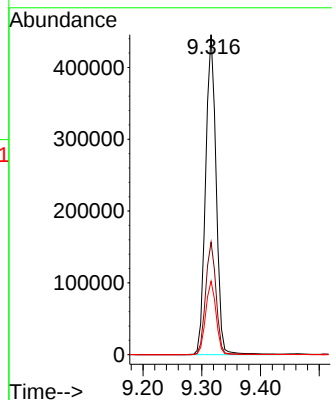
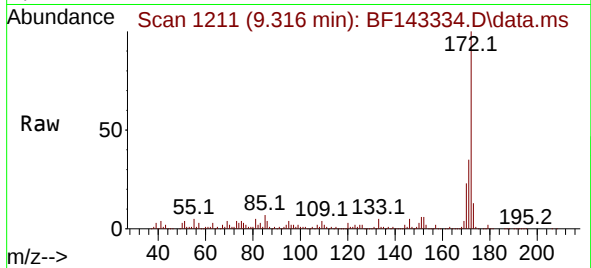




#45
2-Fluorobiphenyl
Concen: 59.979 ng
RT: 9.316 min Scan# 1211
Delta R.T. -0.006 min
Lab File: BF143334.D
Acq: 06 Aug 2025 17:13

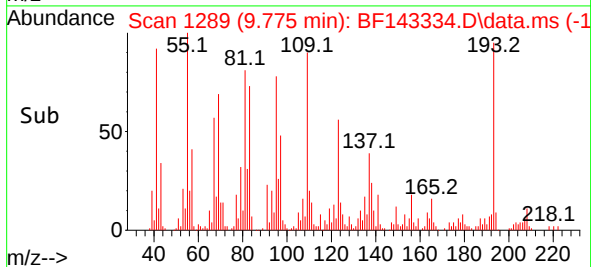
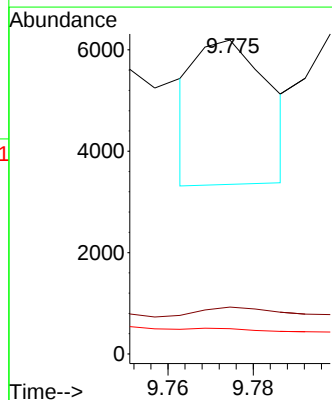
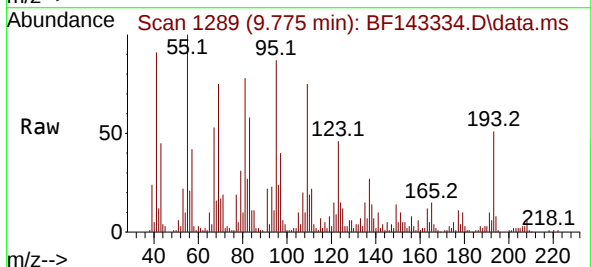
Instrument :
BNA_F
ClientSampleId :
RT3826

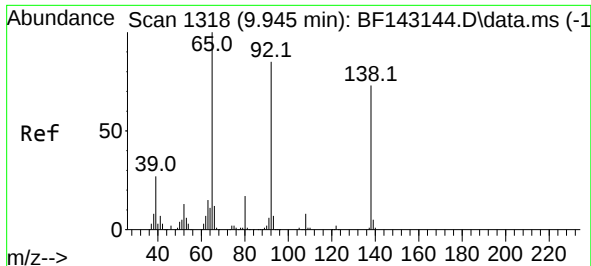
Tgt Ion:172 Resp: 554238
Ion Ratio Lower Upper
172 100
171 35.1 28.6 42.8
170 22.9 18.8 28.2



#51
2,6-Dinitrotoluene
Concen: 2.022 ng
RT: 9.775 min Scan# 1289
Delta R.T. -0.000 min
Lab File: BF143334.D
Acq: 06 Aug 2025 17:13

Tgt Ion:165 Resp: 3389
Ion Ratio Lower Upper
165 100
63 14.9 49.4 74.2#
89 8.1 46.2 69.2#

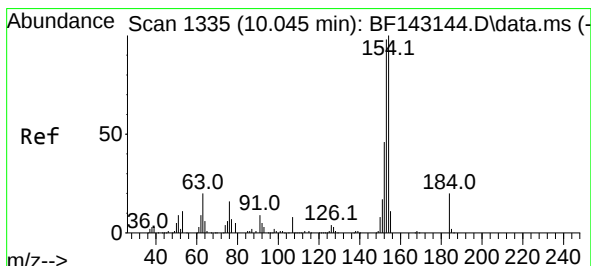
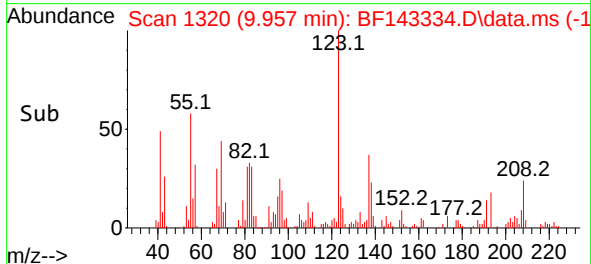
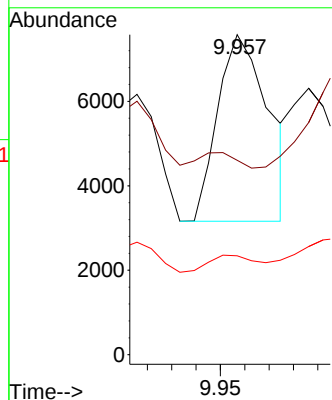
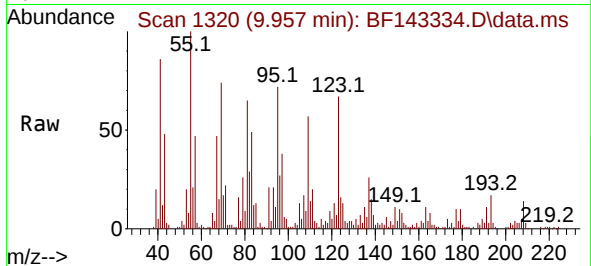




#53
3-Nitroaniline
Concen: 3.247 ng
RT: 9.957 min Scan# 11
Delta R.T. 0.012 min
Lab File: BF143334.D
Acq: 06 Aug 2025 17:13

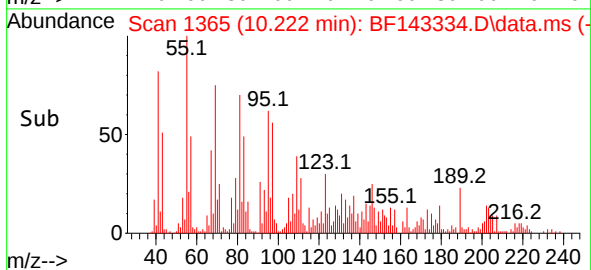
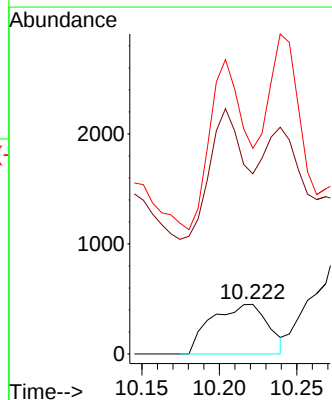
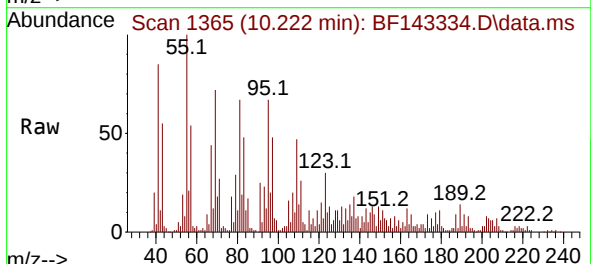
Instrument :
BNA_F
ClientSampleId :
RT3826

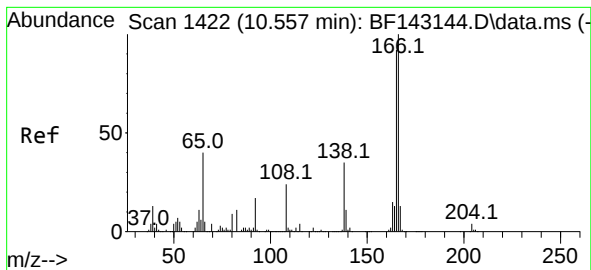
Tgt Ion:138 Resp: 6365
Ion Ratio Lower Upper
138 100
108 60.7 9.0 13.6#
92 30.9 93.0 139.4#



#54
2,4-Dinitrophenol
Concen: 8.040 ng
RT: 10.222 min Scan# 1365
Delta R.T. 0.177 min
Lab File: BF143334.D
Acq: 06 Aug 2025 17:13

Tgt Ion:184 Resp: 1140
Ion Ratio Lower Upper
184 100
63 363.0 81.8 122.6#
154 414.2 412.2 618.4

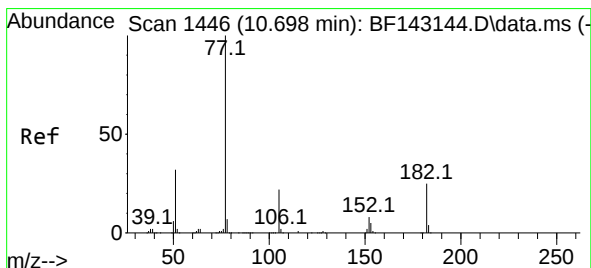
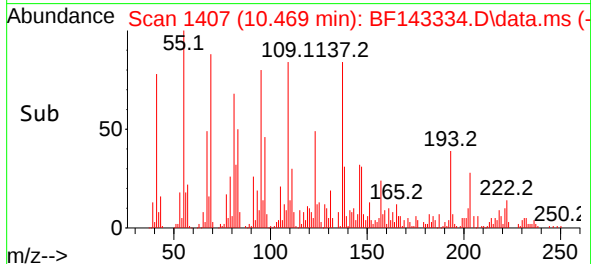
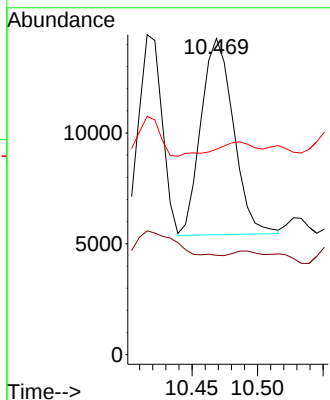
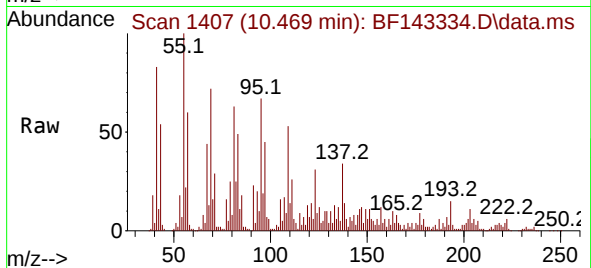




#62
4-Nitroaniline
Concen: 9.113 ng
RT: 10.469 min Scan# 1407
Delta R.T. -0.088 min
Lab File: BF143334.D
Acq: 06 Aug 2025 17:13

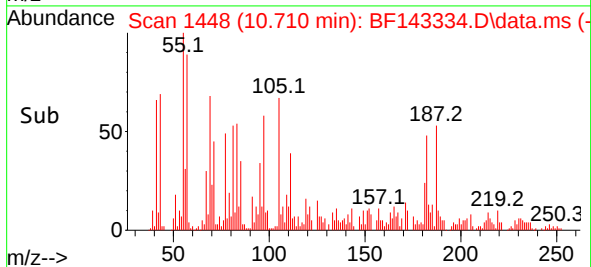
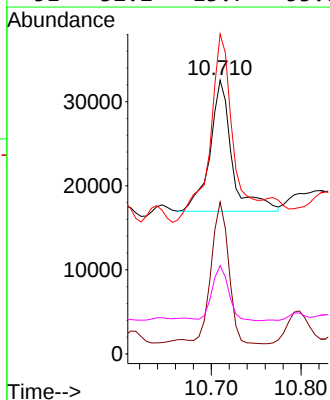
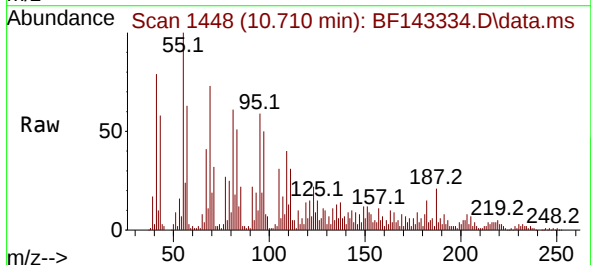
Instrument :
BNA_F
ClientSampleId :
RT3826

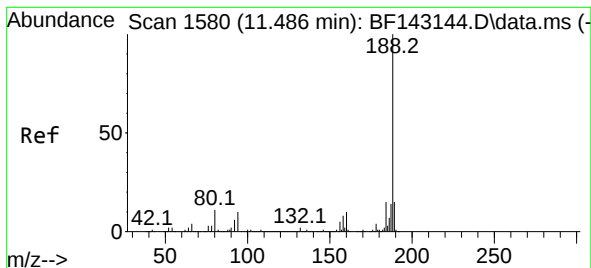
Tgt Ion:138 Resp: 15309
Ion Ratio Lower Upper
138 100
92 31.5 29.3 69.3
108 65.0 48.3 88.3



#63
Azobenzene
Concen: 3.137 ng
RT: 10.710 min Scan# 1448
Delta R.T. 0.012 min
Lab File: BF143334.D
Acq: 06 Aug 2025 17:13

Tgt Ion: 77 Resp: 26618
Ion Ratio Lower Upper
77 100
182 55.5 4.6 44.6#
105 116.9 1.4 41.4#
51 32.2 13.7 53.7





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.504 min Scan# 1

Delta R.T. 0.018 min

Lab File: BF143334.D

Acq: 06 Aug 2025 17:13

Instrument :

BNA_F

ClientSampleId :

RT3826

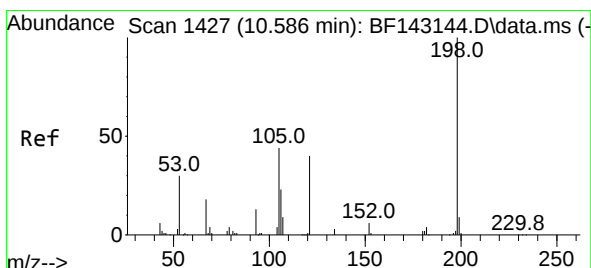
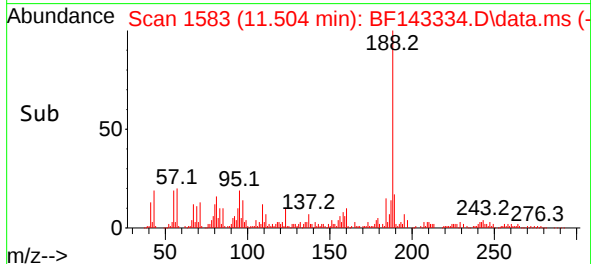
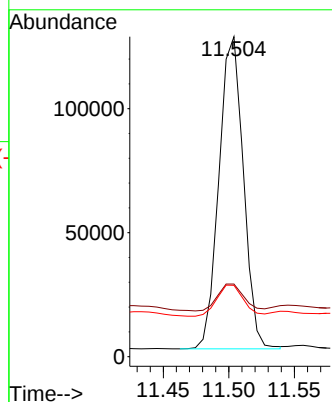
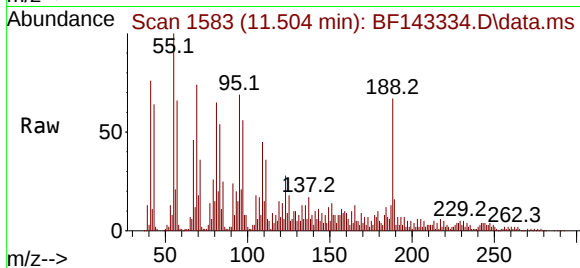
Tgt Ion:188 Resp: 163073

Ion Ratio Lower Upper

188 100

94 22.7 8.3 12.5#

80 22.3 9.0 13.6#



#65

4,6-Dinitro-2-methylphenol

Concen: 6.422 ng

RT: 10.622 min Scan# 1433

Delta R.T. 0.036 min

Lab File: BF143334.D

Acq: 06 Aug 2025 17:13

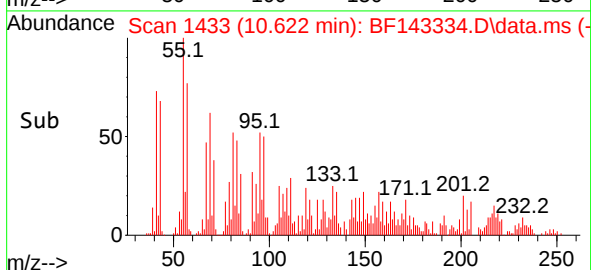
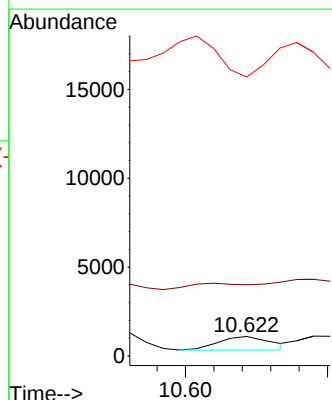
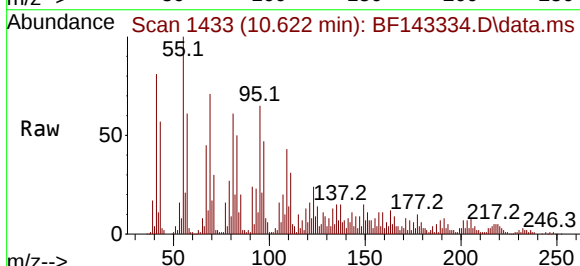
Tgt Ion:198 Resp: 973

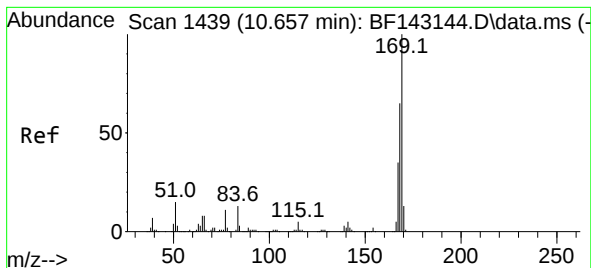
Ion Ratio Lower Upper

198 100

51 365.8 37.2 77.2#

105 1431.8 24.8 64.8#

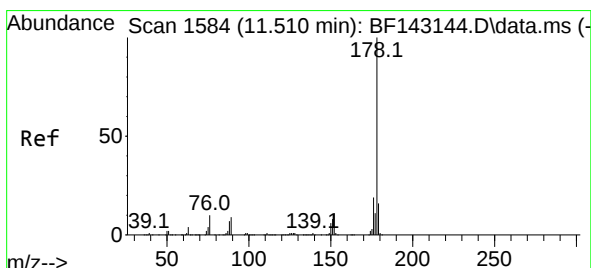
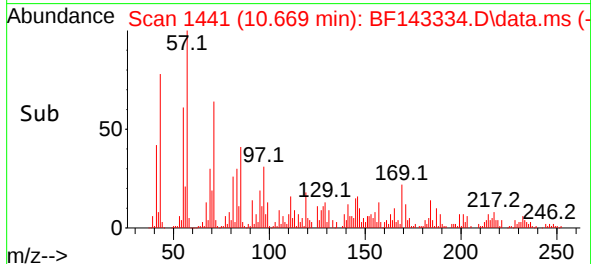
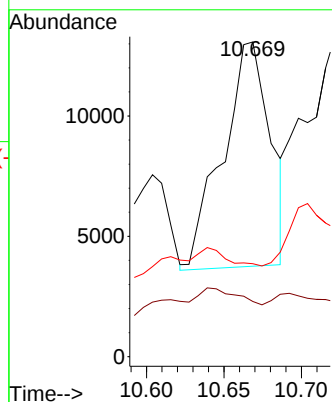
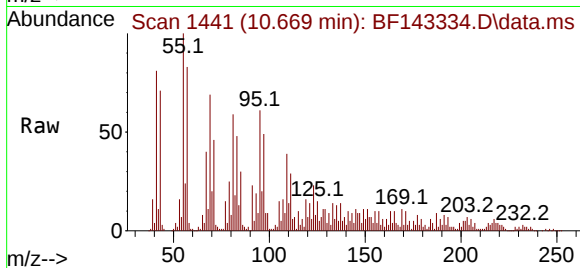




#66
n-Nitrosodiphenylamine
Concen: 3.471 ng
RT: 10.669 min Scan# 1441
Delta R.T. 0.012 min
Lab File: BF143334.D
Acq: 06 Aug 2025 17:13

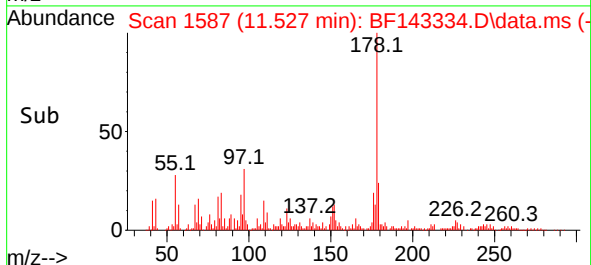
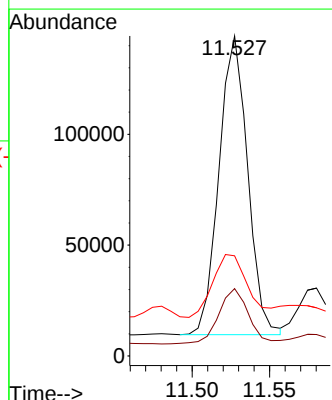
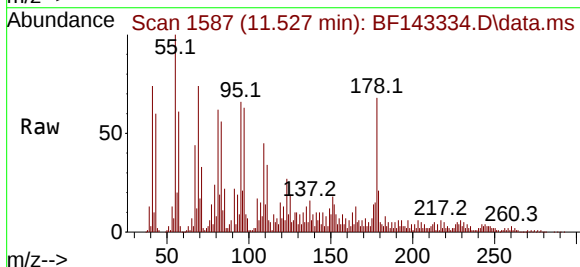
Instrument :
BNA_F
ClientSampleId :
RT3826

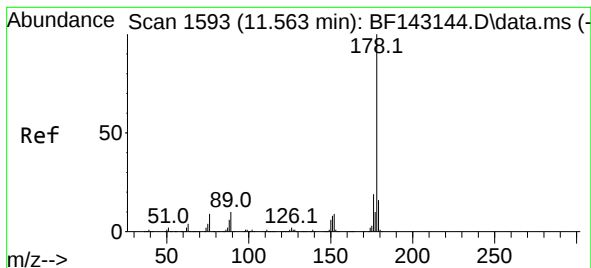
Tgt Ion:169 Resp: 19931
Ion Ratio Lower Upper
169 100
168 17.5 52.1 78.1#
167 29.5 28.2 42.2



#71
Phenanthrene
Concen: 20.005 ng
RT: 11.527 min Scan# 1587
Delta R.T. 0.018 min
Lab File: BF143334.D
Acq: 06 Aug 2025 17:13

Tgt Ion:178 Resp: 173215
Ion Ratio Lower Upper
178 100
176 21.0 15.3 22.9
179 31.3 12.5 18.7#





#72

Anthracene

Concen: 2.943 ng

RT: 11.580 min Scan# 11596

Delta R.T. 0.018 min

Lab File: BF143334.D

Acq: 06 Aug 2025 17:13

Instrument :

BNA_F

ClientSampleId :

RT3826

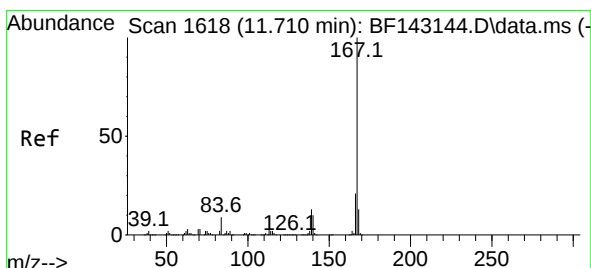
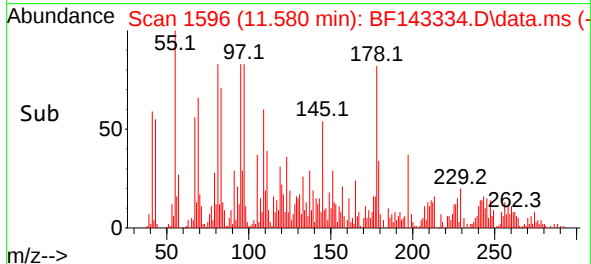
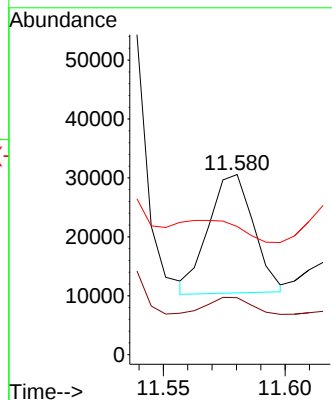
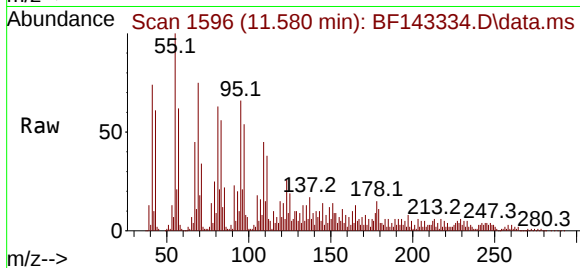
Tgt Ion:178 Resp: 25990

Ion Ratio Lower Upper

178 100

176 31.6 15.0 22.4#

179 71.1 12.5 18.7#



#73

Carbazole

Concen: 2.371 ng

RT: 11.727 min Scan# 1621

Delta R.T. 0.018 min

Lab File: BF143334.D

Acq: 06 Aug 2025 17:13

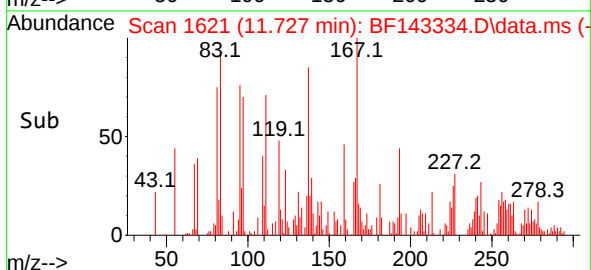
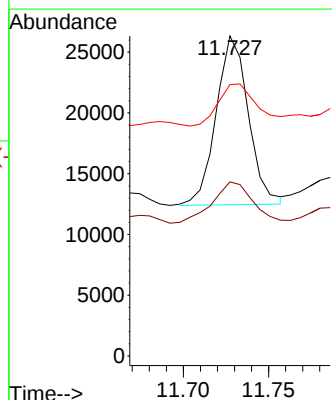
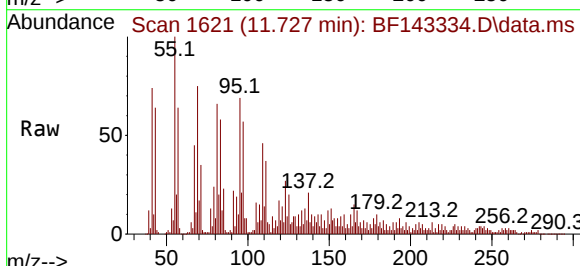
Tgt Ion:167 Resp: 18282

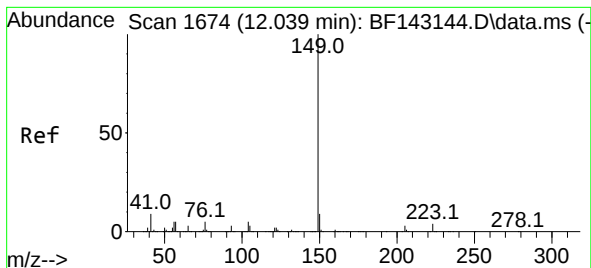
Ion Ratio Lower Upper

167 100

166 54.4 17.0 25.6#

139 84.8 10.0 15.0#





#74

Di-n-butylphthalate

Concen: 2.985 ng

RT: 12.063 min Scan# 1

Delta R.T. 0.024 min

Lab File: BF143334.D

Acq: 06 Aug 2025 17:13

Instrument :

BNA_F

ClientSampleId :

RT3826

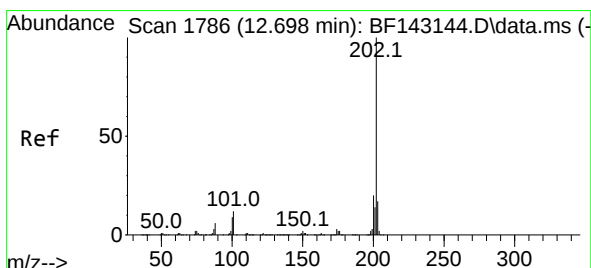
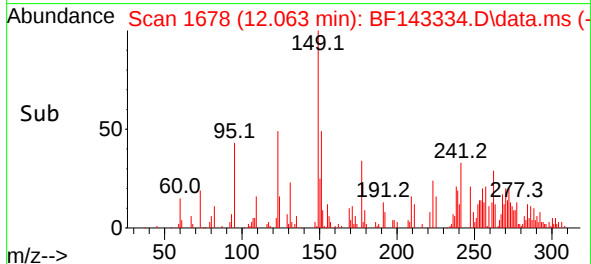
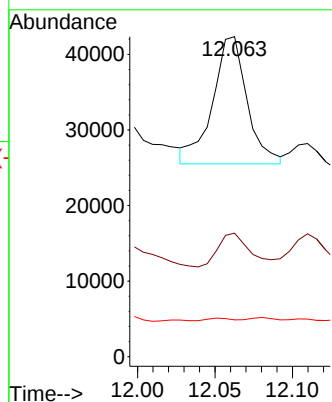
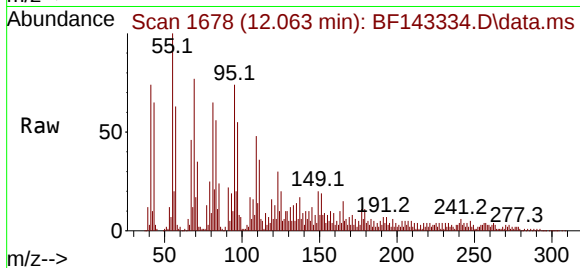
Tgt Ion:149 Resp: 26046

Ion Ratio Lower Upper

149 100

150 38.6 7.4 11.2#

104 11.5 3.8 5.8#



#75

Fluoranthene

Concen: 40.143 ng

RT: 12.727 min Scan# 1791

Delta R.T. 0.029 min

Lab File: BF143334.D

Acq: 06 Aug 2025 17:13

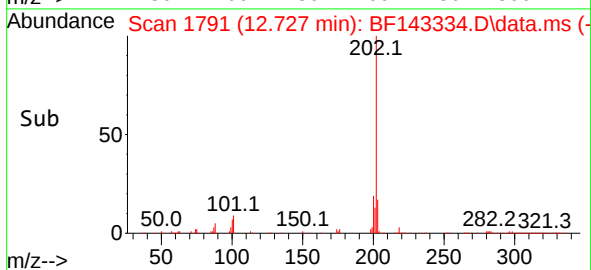
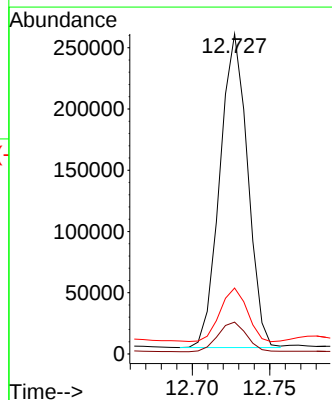
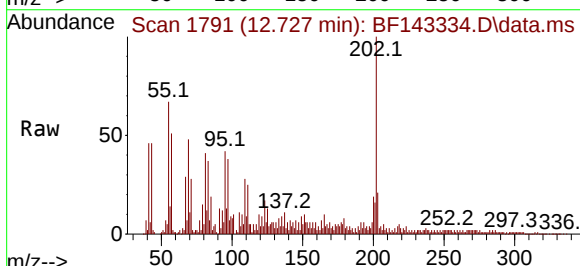
Tgt Ion:202 Resp: 319035

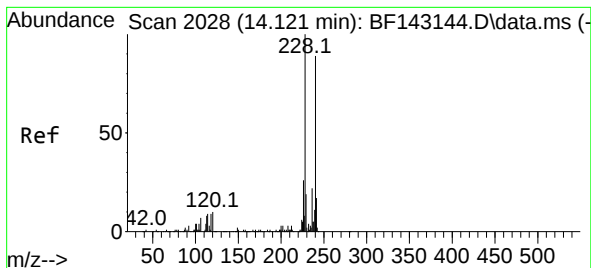
Ion Ratio Lower Upper

202 100

101 10.0 0.0 31.7

203 20.6 0.0 37.4





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.145 min Scan# 20

Delta R.T. 0.023 min

Lab File: BF143334.D

Acq: 06 Aug 2025 17:13

Instrument :

BNA_F

ClientSampleId :

RT3826

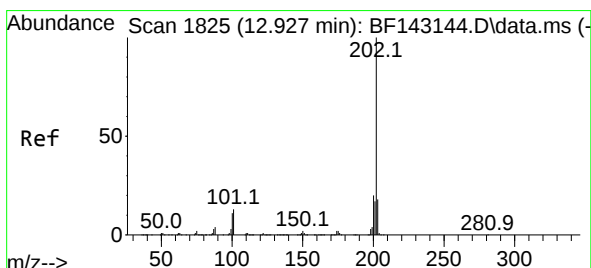
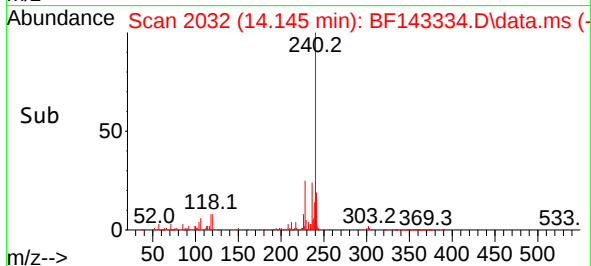
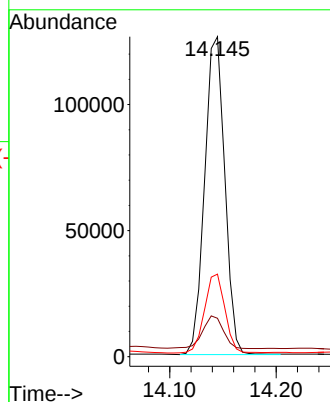
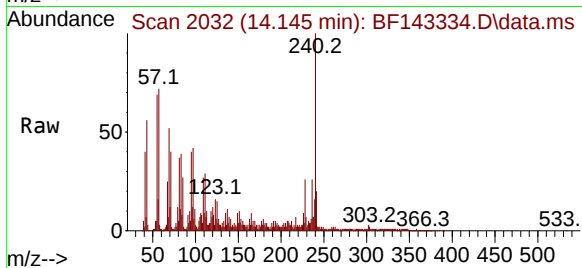
Tgt Ion:240 Resp: 165920

Ion Ratio Lower Upper

240 100

120 12.0 9.4 14.2

236 25.8 20.2 30.4



#78

Pyrene

Concen: 22.530 ng

RT: 12.727 min Scan# 1791

Delta R.T. -0.200 min

Lab File: BF143334.D

Acq: 06 Aug 2025 17:13

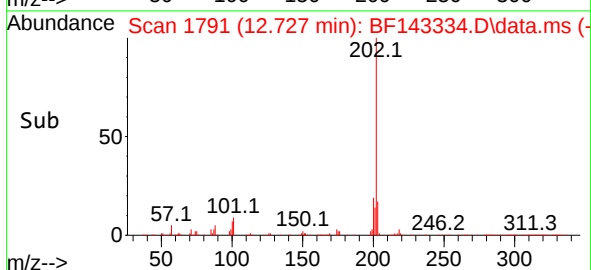
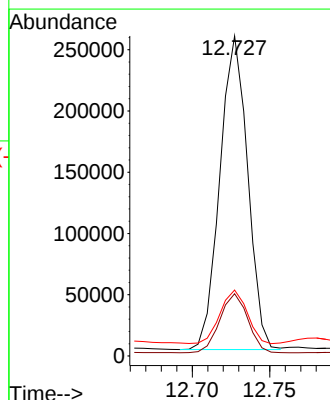
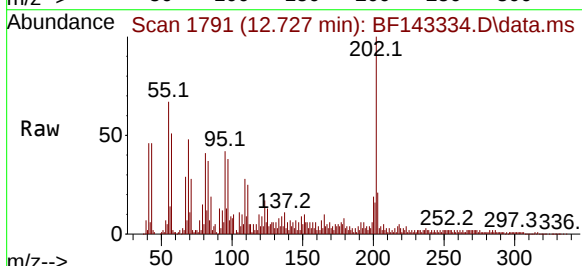
Tgt Ion:202 Resp: 319035

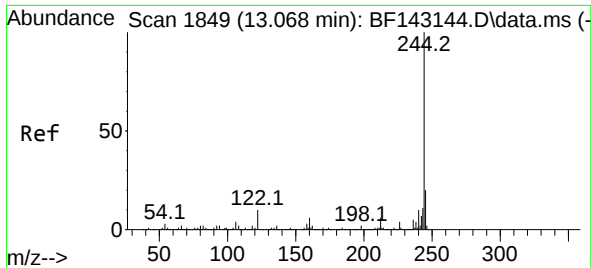
Ion Ratio Lower Upper

202 100

200 19.4 15.7 23.5

203 20.6 14.2 21.2

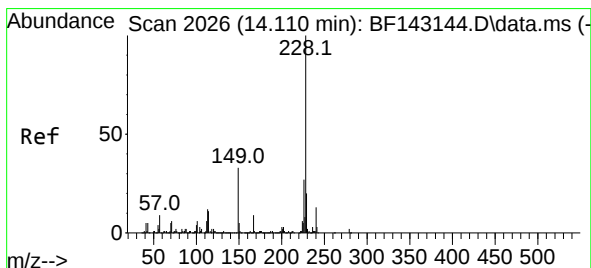
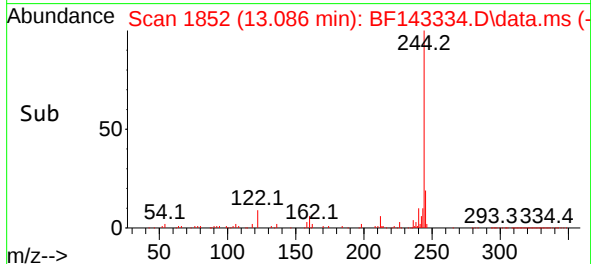
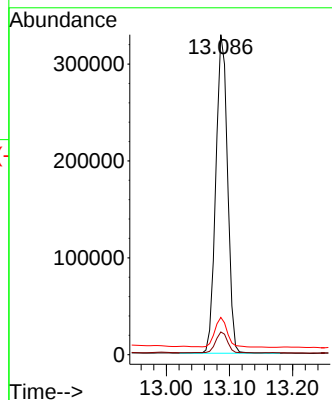
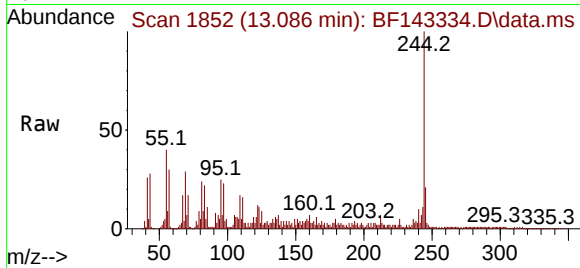




#79
 Terphenyl-d14
 Concen: 37.976 ng
 RT: 13.086 min Scan# 11
 Delta R.T. 0.018 min
 Lab File: BF143334.D
 Acq: 06 Aug 2025 17:13

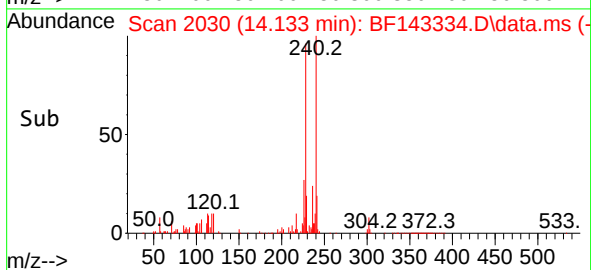
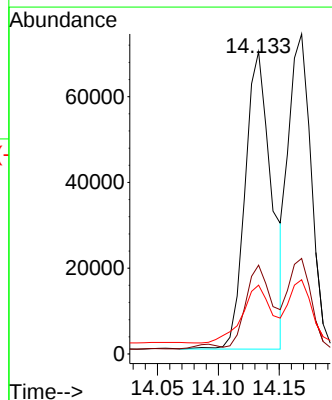
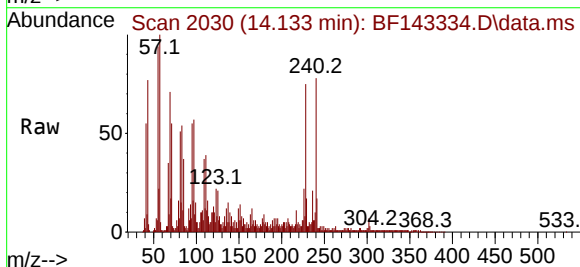
Instrument :
 BNA_F
 ClientSampleId :
 RT3826

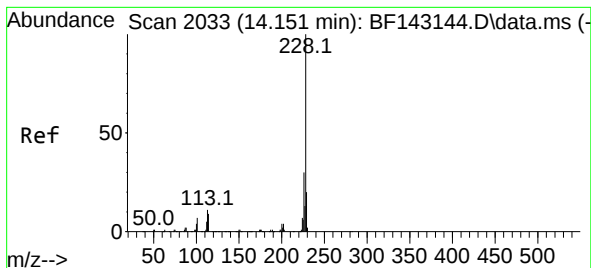
Tgt Ion:244 Resp: 423420
 Ion Ratio Lower Upper
 244 100
 212 7.1 5.2 7.8
 122 11.7 8.2 12.2



#81
 Benzo(a)anthracene
 Concen: 9.431 ng
 RT: 14.133 min Scan# 2030
 Delta R.T. 0.023 min
 Lab File: BF143334.D
 Acq: 06 Aug 2025 17:13

Tgt Ion:228 Resp: 104763
 Ion Ratio Lower Upper
 228 100
 226 29.4 21.7 32.5
 229 22.8 15.8 23.6





#83

Chrysene

Concen: 9.529 ng

RT: 14.168 min Scan# 2036

Delta R.T. 0.018 min

Lab File: BF143334.D

Acq: 06 Aug 2025 17:13

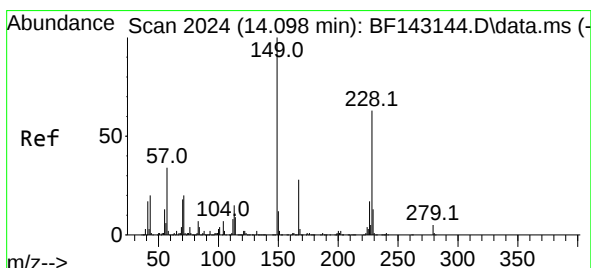
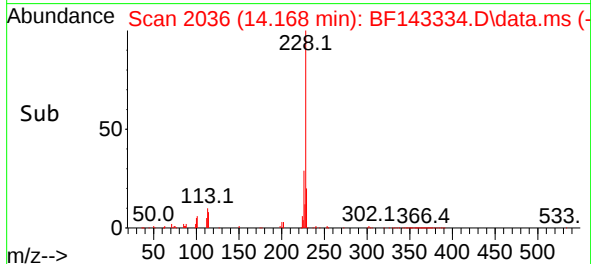
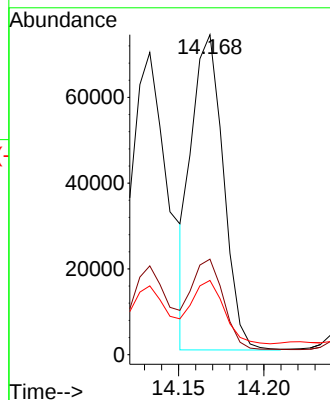
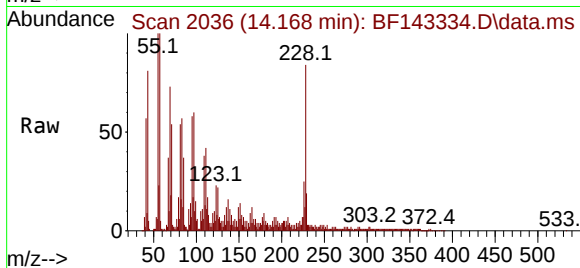
Instrument :

BNA_F

ClientSampleId :

RT3826

Tgt Ion:228	Resp:	95168
Ion Ratio	Lower	Upper
228	100	
226	29.9	23.8 35.8
229	23.2	15.6 23.4



#84

Bis(2-ethylhexyl)phthalate

Concen: 2.352 ng

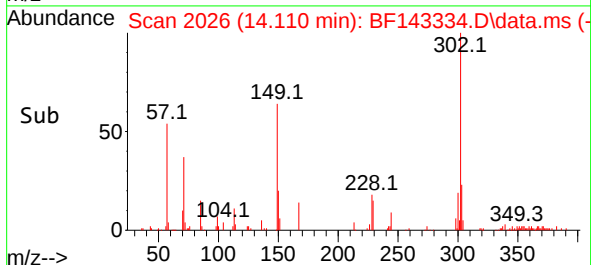
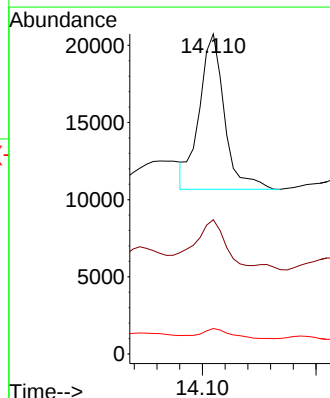
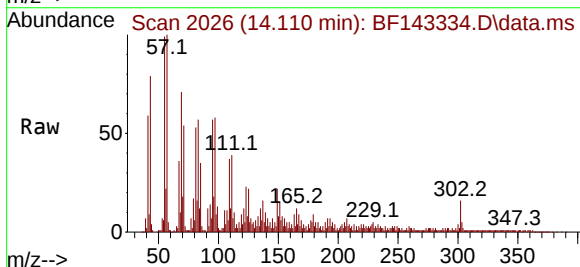
RT: 14.110 min Scan# 2026

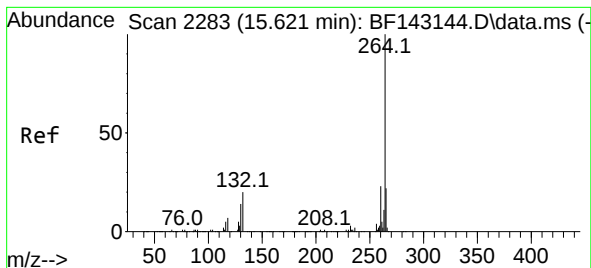
Delta R.T. 0.012 min

Lab File: BF143334.D

Acq: 06 Aug 2025 17:13

Tgt Ion:149	Resp:	15435
Ion Ratio	Lower	Upper
149	100	
167	42.0	22.3 33.5#
279	8.0	3.6 5.4#





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.651 min Scan# 21

Delta R.T. 0.029 min

Lab File: BF143334.D

Acq: 06 Aug 2025 17:13

Instrument :

BNA_F

ClientSampleId :

RT3826

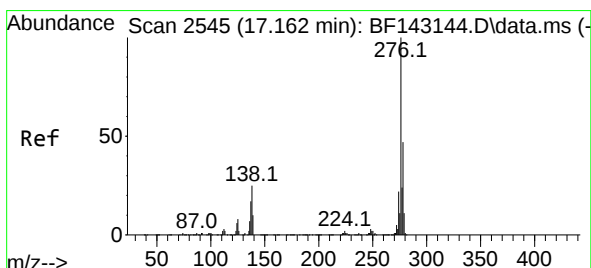
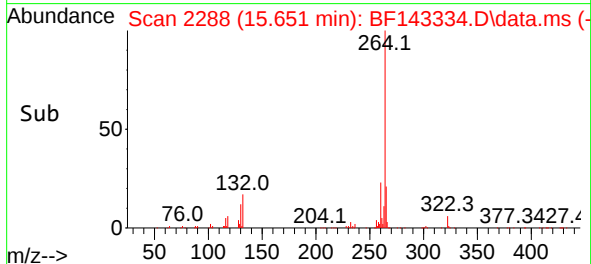
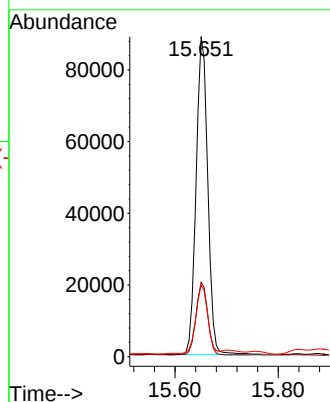
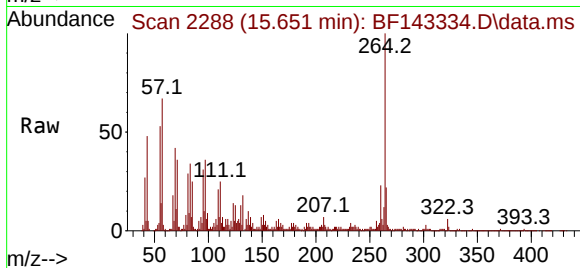
Tgt Ion:264 Resp: 138999

Ion Ratio Lower Upper

264 100

260 23.3 18.5 27.7

265 22.3 17.4 26.2



#87

Indeno(1,2,3-cd)pyrene

Concen: 3.913 ng

RT: 17.192 min Scan# 2550

Delta R.T. 0.029 min

Lab File: BF143334.D

Acq: 06 Aug 2025 17:13

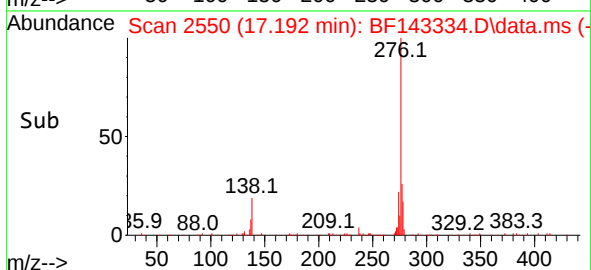
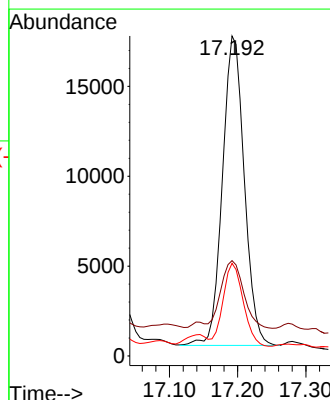
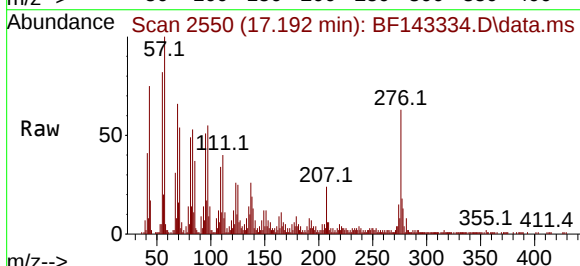
Tgt Ion:276 Resp: 38349

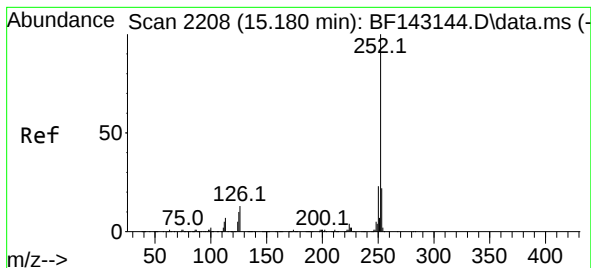
Ion Ratio Lower Upper

276 100

138 22.7 21.8 32.6

277 25.1 20.0 30.0





#88

Benzo(b)fluoranthene

Concen: 18.237 ng

RT: 15.204 min Scan# 2212

Delta R.T. 0.023 min

Lab File: BF143334.D

Acq: 06 Aug 2025 17:13

Instrument :

BNA_F

ClientSampleId :

RT3826

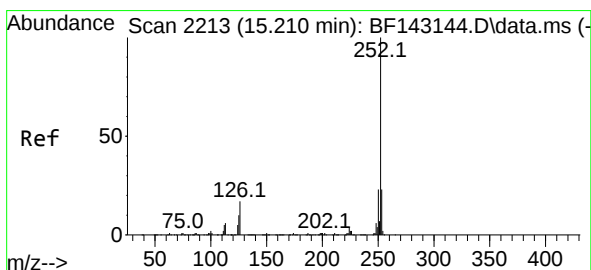
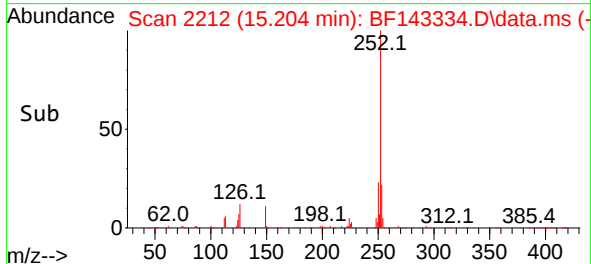
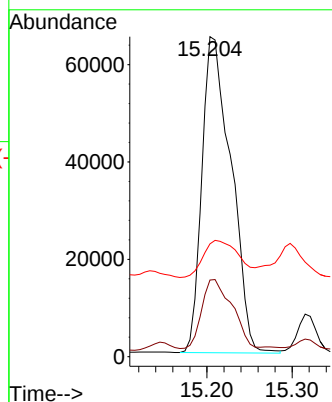
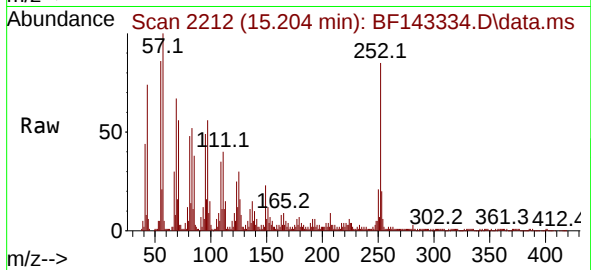
Tgt Ion:252 Resp: 154864

Ion Ratio Lower Upper

252 100

253 24.0 17.5 26.3

125 35.2 8.0 12.0#



#89

Benzo(k)fluoranthene

Concen: 20.437 ng

RT: 15.204 min Scan# 2212

Delta R.T. -0.006 min

Lab File: BF143334.D

Acq: 06 Aug 2025 17:13

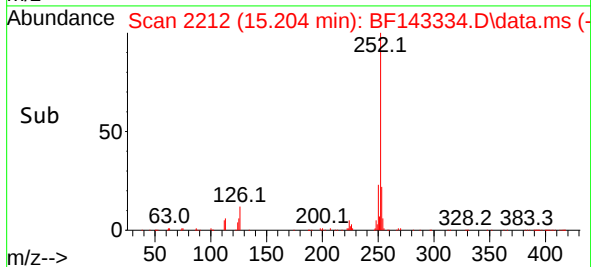
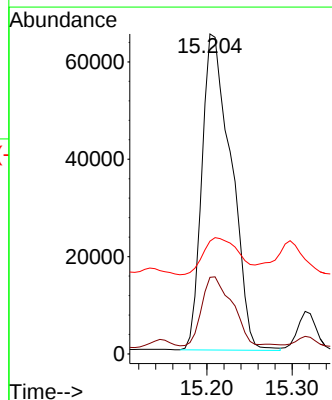
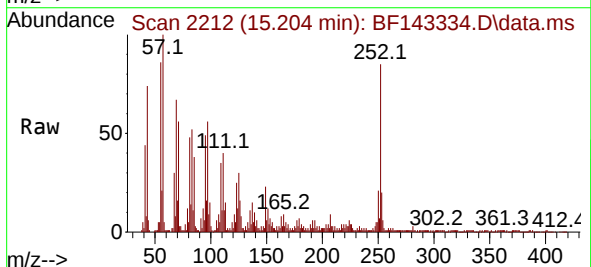
Tgt Ion:252 Resp: 154864

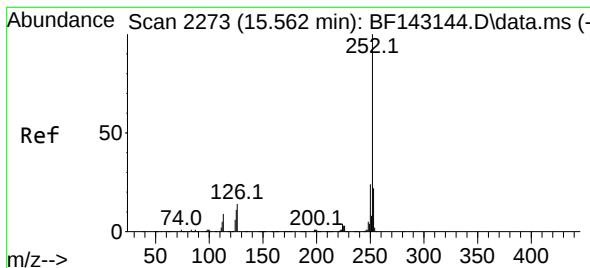
Ion Ratio Lower Upper

252 100

253 24.0 17.8 26.6

125 35.2 8.1 12.1#





#90

Benzo(a)pyrene

Concen: 7.659 ng

RT: 15.586 min Scan# 21

Delta R.T. 0.024 min

Lab File: BF143334.D

Acq: 06 Aug 2025 17:13

Instrument :

BNA_F

ClientSampleId :

RT3826

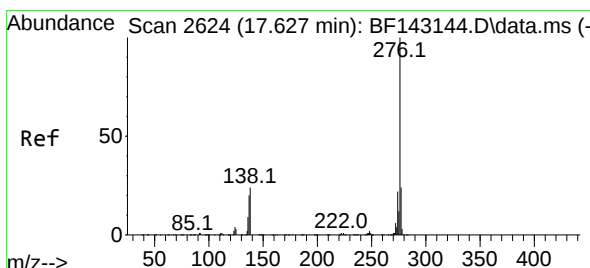
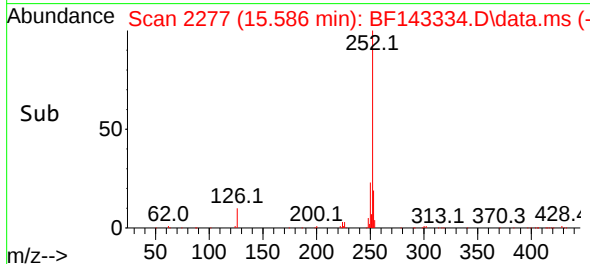
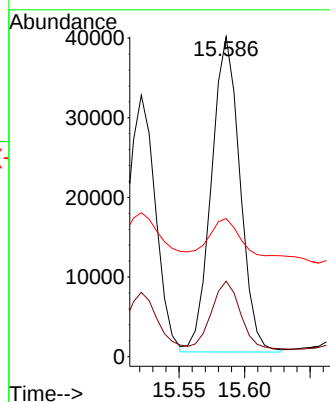
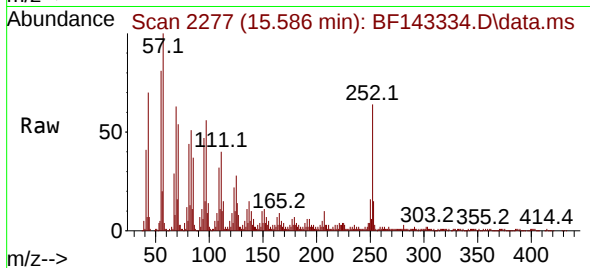
Tgt Ion:252 Resp: 59925

Ion Ratio Lower Upper

252 100

253 23.6 17.3 25.9

125 43.2 8.6 13.0#



#92

Benzo(g,h,i)perylene

Concen: 4.658 ng

RT: 17.662 min Scan# 2630

Delta R.T. 0.035 min

Lab File: BF143334.D

Acq: 06 Aug 2025 17:13

Tgt Ion:276 Resp: 35945

Ion Ratio Lower Upper

276 100

277 26.5 19.1 28.7

138 32.2 18.9 28.3#

