

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072125\
 Data File : BF143170.D
 Acq On : 21 Jul 2025 14:30
 Operator : RC/JU
 Sample : Q2635-01
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RT2286

Quant Time: Jul 21 14:57:06 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)

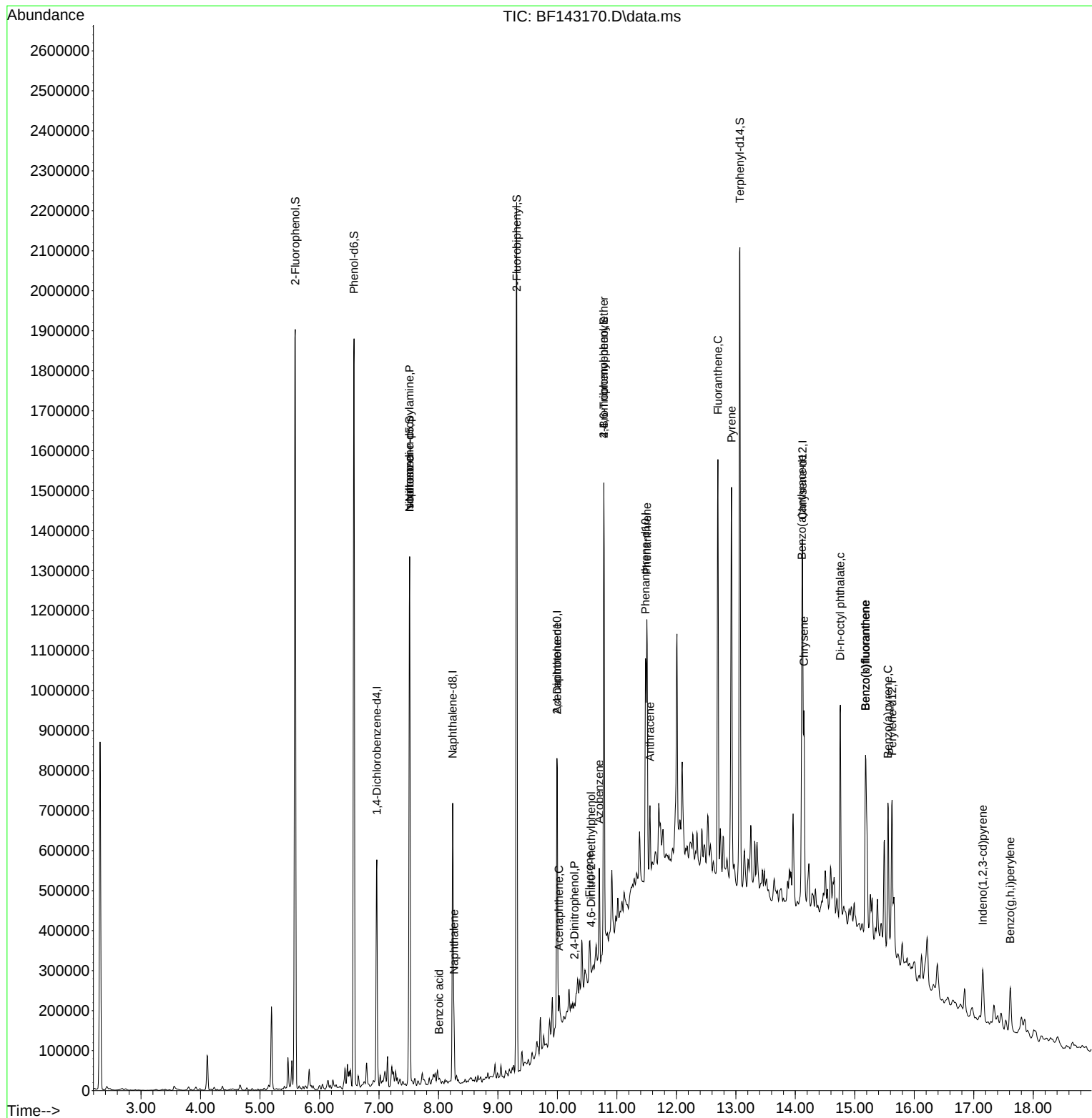
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.963	152	115306	20.000	ng	0.00
21) Naphthalene-d8	8.239	136	405556	20.000	ng	0.00
39) Acenaphthene-d10	9.992	164	189302	20.000	ng	0.00
64) Phenanthrene-d10	11.480	188	293438	20.000	ng	0.00
76) Chrysene-d12	14.121	240	260679	20.000	ng	0.00
86) Perylene-d12	15.627	264	231121	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.593	112	724856	99.480	ng	0.00
7) Phenol-d6	6.581	99	878583	95.796	ng	0.00
23) Nitrobenzene-d5	7.516	82	565652	69.524	ng	0.00
42) 2,4,6-Tribromophenol	10.781	330	201179	102.873	ng	0.00
45) 2-Fluorobiphenyl	9.316	172	937585	67.736	ng	0.00
79) Terphenyl-d14	13.069	244	807150	46.077	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.516	70	78261	13.300	ng	# 79
25) Isophorone	7.516	82	562780	39.183	ng	# 66
31) Naphthalene	8.263	128	79141	3.962	ng	99
32) Benzoic acid	8.010	122	483	5.292	ng	# 64
52) Acenaphthene	10.028	154	24746	2.286	ng	96
54) 2,4-Dinitrophenol	10.286	184	120	6.760	ng	# 1
57) 2,4-Dinitrotoluene	9.992	165	26297	8.350	ng	# 22
58) Fluorene	10.539	166	29697	2.462	ng	# 95
63) Azobenzene	10.704	77	52179	4.105	ng	# 1
65) 4,6-Dinitro-2-methylph...	10.569	198	252	5.558	ng	# 1
67) 4-Bromophenyl-phenylether	10.781	248	13812	3.950	ng	# 1
71) Phenanthrene	11.504	178	337638	21.670	ng	99
72) Anthracene	11.557	178	103286	6.500	ng	97
75) Fluoranthene	12.698	202	589349	41.210	ng	99
78) Pyrene	12.927	202	588106	26.435	ng	99
81) Benzo(a)anthracene	14.110	228	301345	17.267	ng	97
83) Chrysene	14.145	228	254809	16.239	ng	97
85) Di-n-octyl phthalate	14.757	149	67877	3.632	ng	# 44
87) Indeno(1,2,3-cd)pyrene	17.151	276	102773	6.306	ng	94
88) Benzo(b)fluoranthene	15.180	252	422608	29.931	ng	97
89) Benzo(k)fluoranthene	15.180	252	422608	33.542	ng	97
90) Benzo(a)pyrene	15.557	252	236440	18.175	ng	96
92) Benzo(g,h,i)perylene	17.615	276	99410	7.747	ng	98

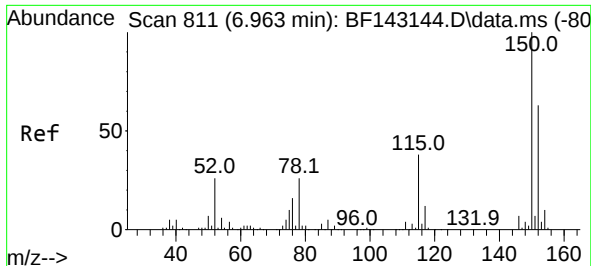
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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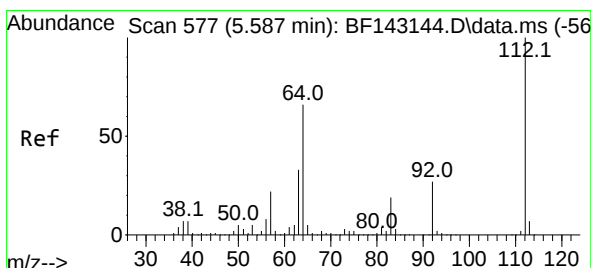
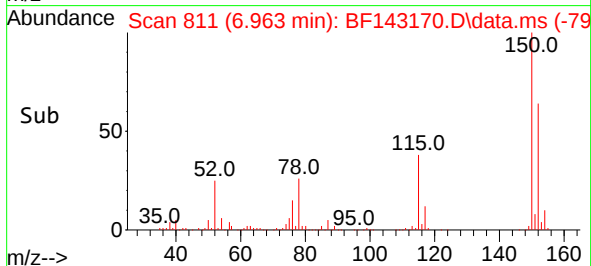
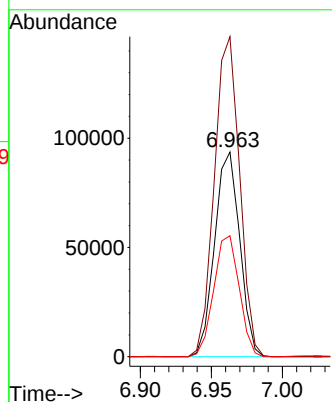
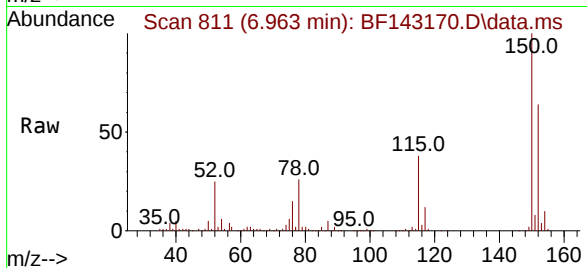




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.963 min Scan# 811
Delta R.T. 0.000 min
Lab File: BF143170.D
Acq: 21 Jul 2025 14:30

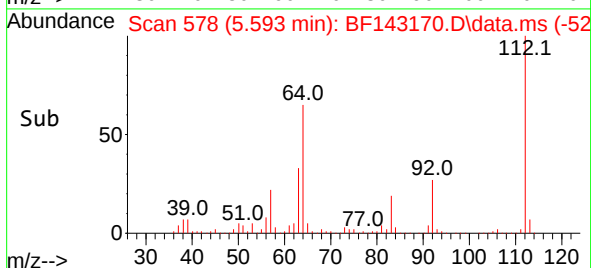
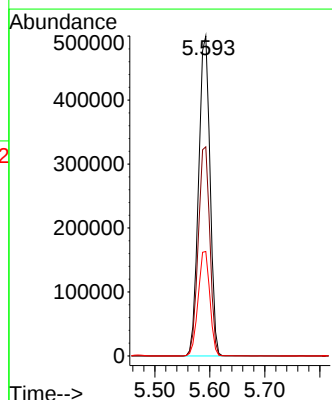
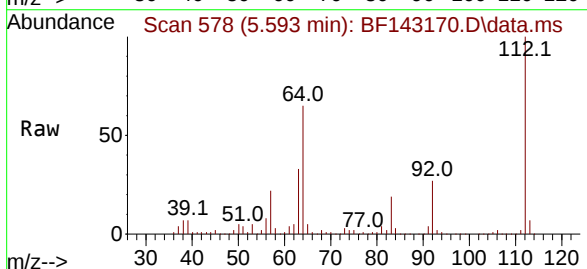
Instrument :
BNA_F
ClientSampleId :
RT2286

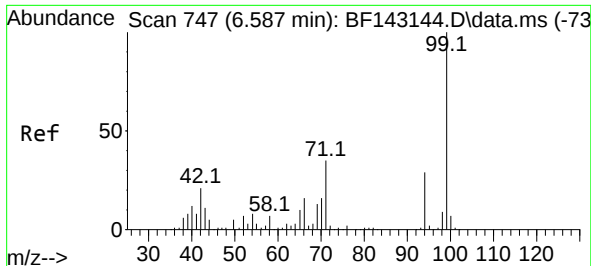
Tgt Ion:152 Resp: 115306
Ion Ratio Lower Upper
152 100
150 156.4 128.2 192.4
115 59.1 47.9 71.9



#5
2-Fluorophenol
Concen: 99.480 ng
RT: 5.593 min Scan# 578
Delta R.T. 0.006 min
Lab File: BF143170.D
Acq: 21 Jul 2025 14:30

Tgt Ion:112 Resp: 724856
Ion Ratio Lower Upper
112 100
64 65.4 53.1 79.7
63 32.6 26.6 40.0

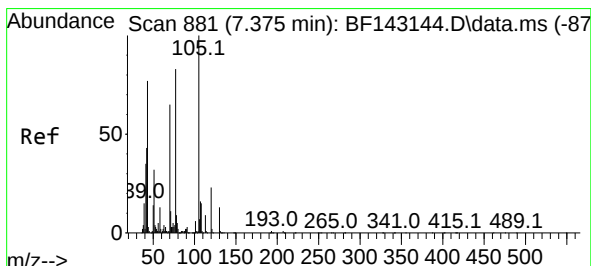
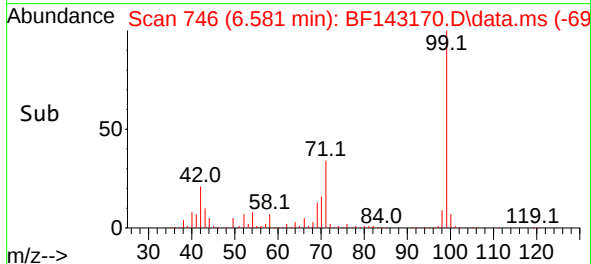
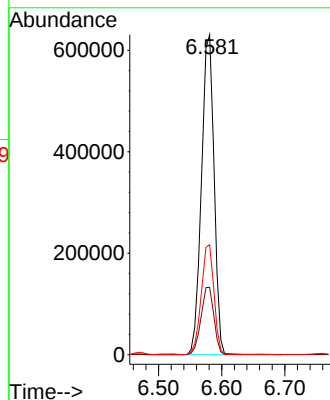
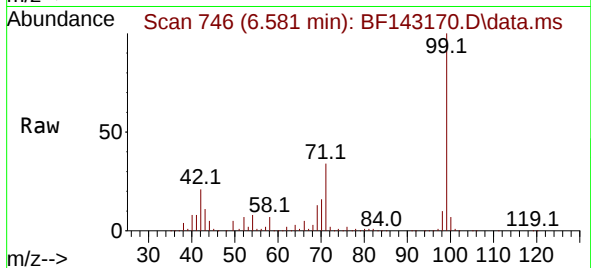




#7
Phenol-d6
Concen: 95.796 ng
RT: 6.581 min Scan# 74
Delta R.T. -0.006 min
Lab File: BF143170.D
Acq: 21 Jul 2025 14:30

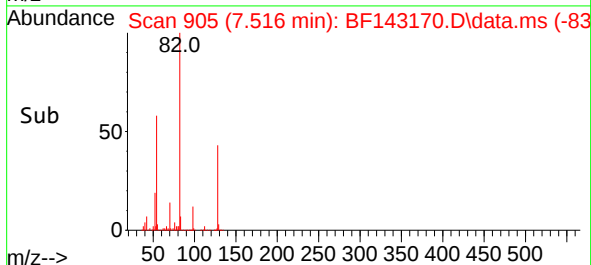
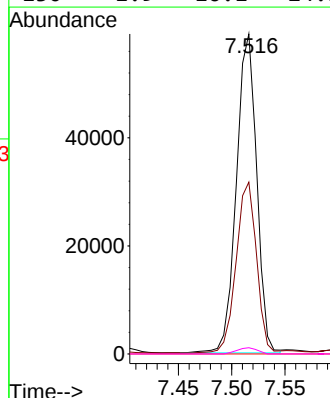
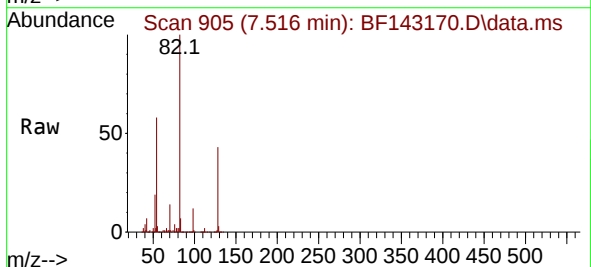
Instrument :
BNA_F
ClientSampleId :
RT2286

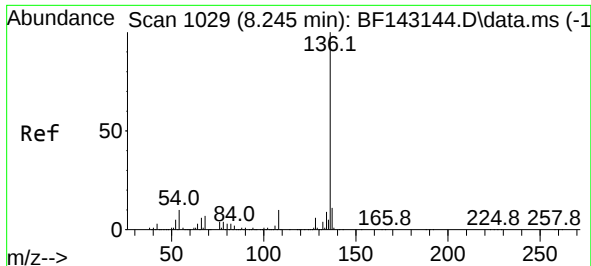
Tgt Ion: 99 Resp: 878583
Ion Ratio Lower Upper
99 100
42 21.1 17.0 25.6
71 34.3 27.7 41.5



#19
n-Nitroso-di-n-propylamine
Concen: 13.300 ng
RT: 7.516 min Scan# 905
Delta R.T. 0.141 min
Lab File: BF143170.D
Acq: 21 Jul 2025 14:30

Tgt Ion: 70 Resp: 78261
Ion Ratio Lower Upper
70 100
42 53.7 52.5 78.7
101 0.0 7.6 11.4#
130 1.9 16.1 24.1#



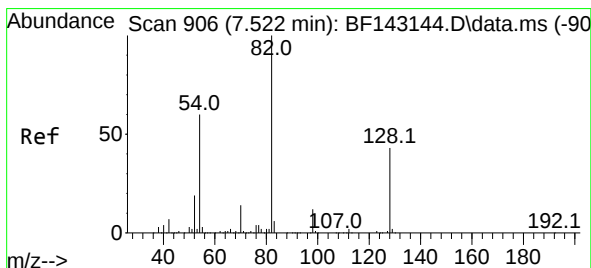
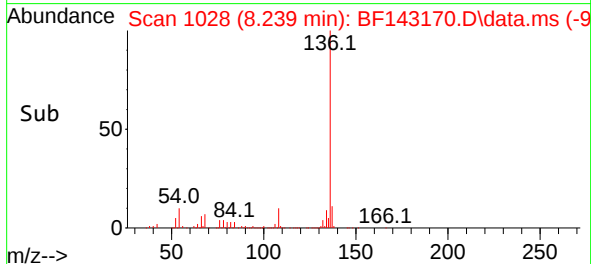
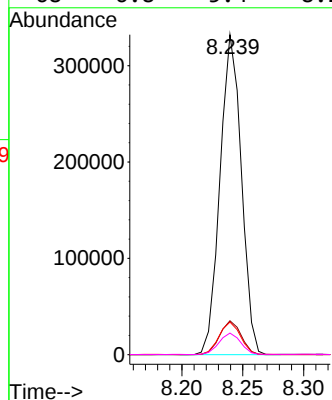
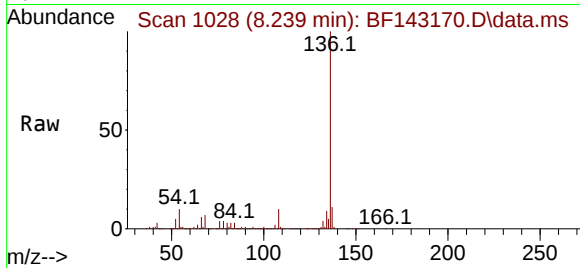


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.239 min Scan# 1028
Delta R.T. -0.005 min
Lab File: BF143170.D
Acq: 21 Jul 2025 14:30

Instrument :
BNA_F
ClientSampleId :
RT2286

Tgt Ion:136 Resp: 405556

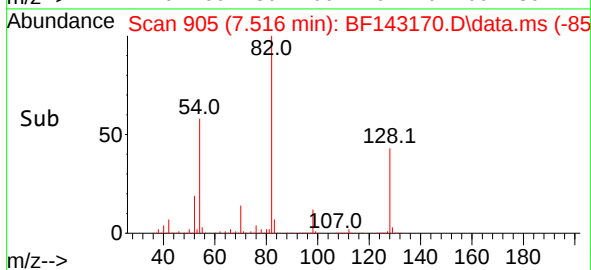
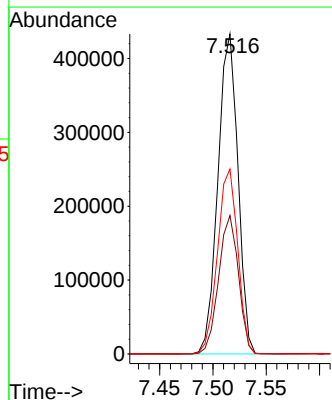
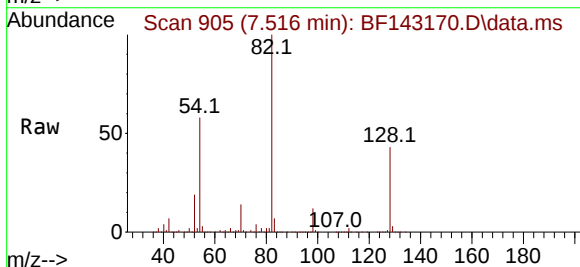
Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.6	13.0
54	10.2	8.2	12.2
68	6.8	5.4	8.2

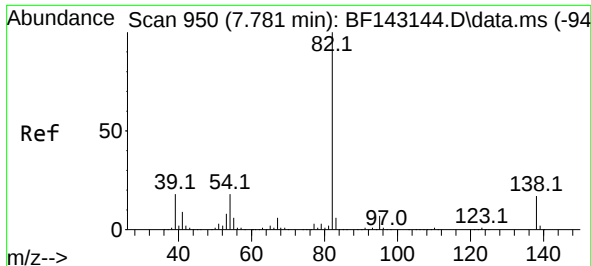


#23
Nitrobenzene-d5
Concen: 69.524 ng
RT: 7.516 min Scan# 905
Delta R.T. -0.006 min
Lab File: BF143170.D
Acq: 21 Jul 2025 14:30

Tgt Ion: 82 Resp: 565652

Ion	Ratio	Lower	Upper
82	100		
128	43.2	33.6	50.4
54	57.8	47.1	70.7

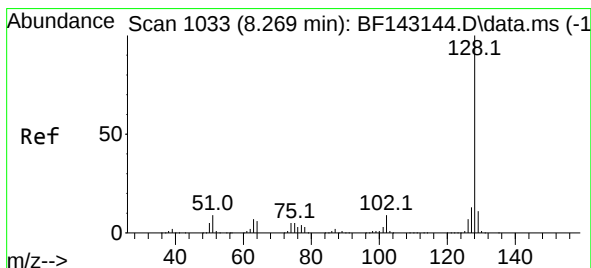
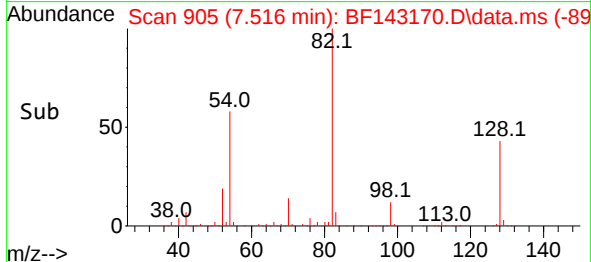
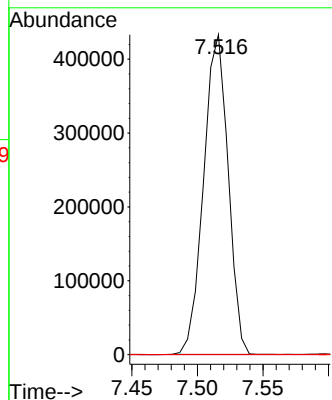
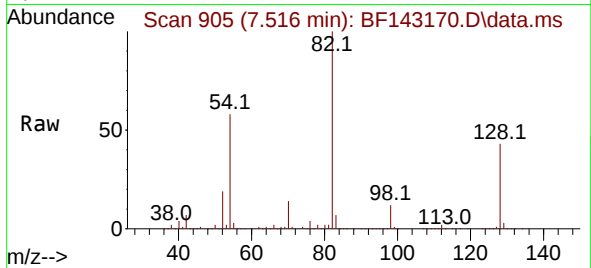




#25
Isophorone
Concen: 39.183 ng
RT: 7.516 min Scan# 90
Delta R.T. -0.265 min
Lab File: BF143170.D
Acq: 21 Jul 2025 14:30

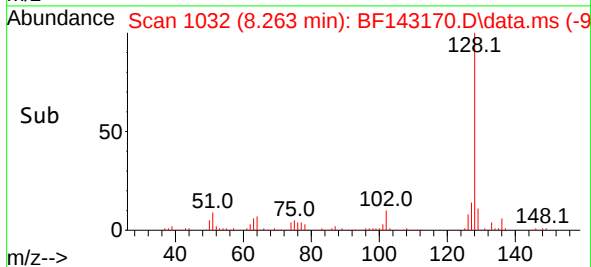
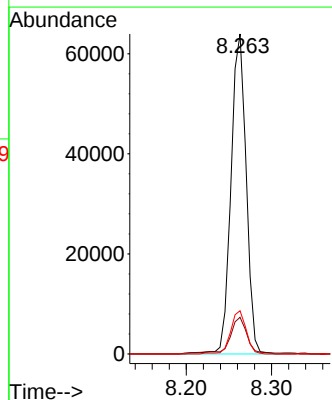
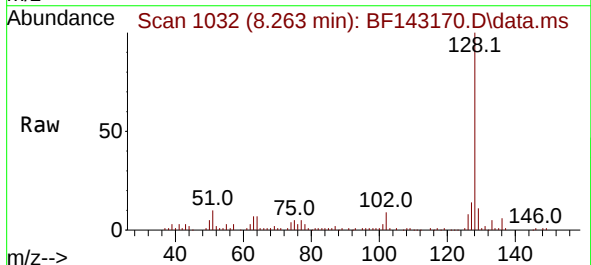
Instrument :
BNA_F
ClientSampleId :
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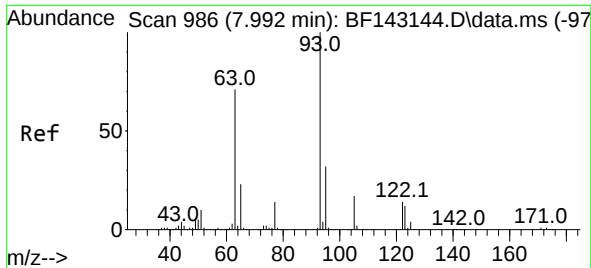
Tgt Ion: 82 Resp: 562780
Ion Ratio Lower Upper
82 100
95 0.1 5.5 8.3#
138 0.0 13.8 20.8#



#31
Naphthalene
Concen: 3.962 ng
RT: 8.263 min Scan# 1032
Delta R.T. -0.006 min
Lab File: BF143170.D
Acq: 21 Jul 2025 14:30

Tgt Ion:128 Resp: 79141
Ion Ratio Lower Upper
128 100
129 11.5 9.0 13.4
127 13.5 10.6 16.0

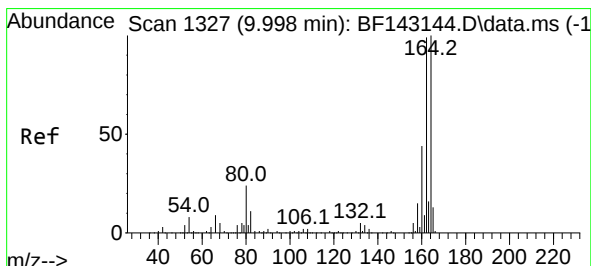
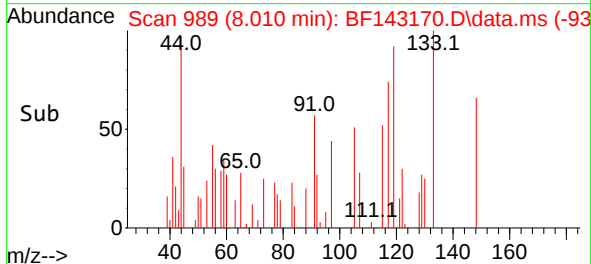
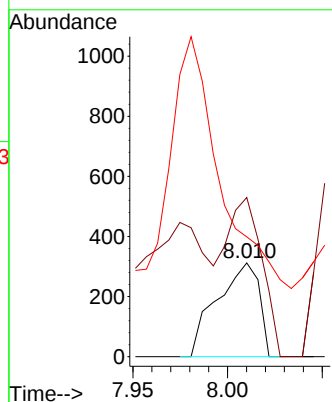
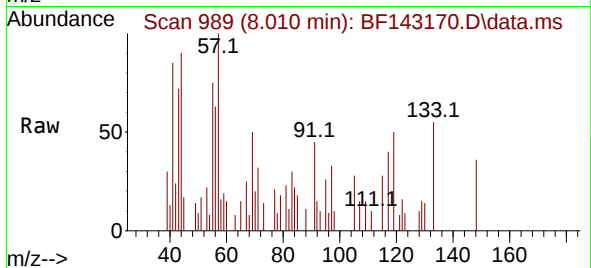




#32
Benzoic acid
Concen: 5.292 ng
RT: 8.010 min Scan# 91
Delta R.T. 0.018 min
Lab File: BF143170.D
Acq: 21 Jul 2025 14:30

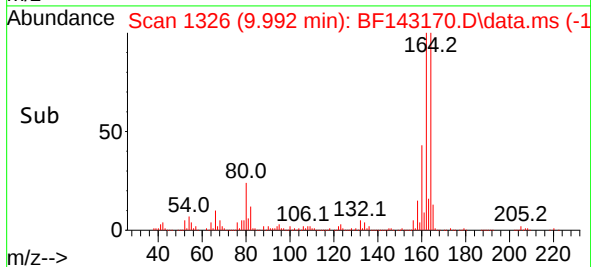
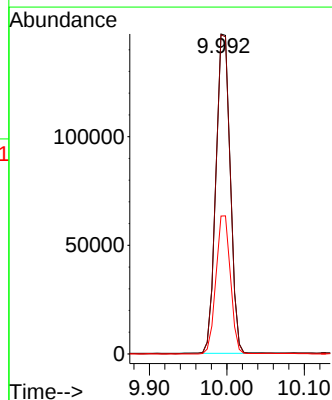
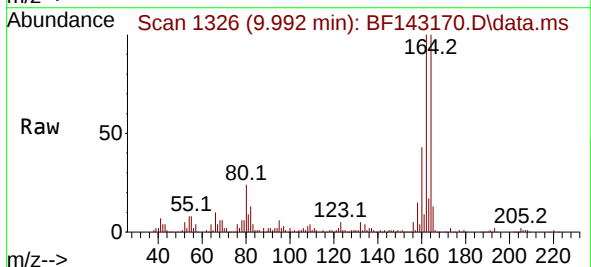
Instrument :
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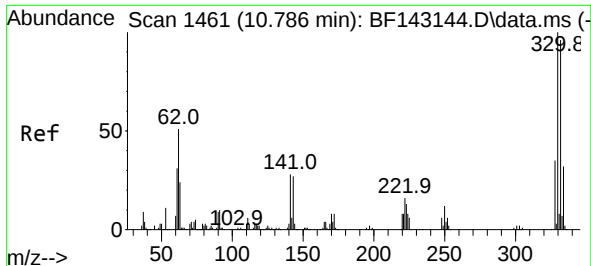
Tgt Ion:122 Resp: 483
Ion Ratio Lower Upper
122 100
105 169.9 104.8 144.8#
77 127.9 77.6 117.6#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.992 min Scan# 1326
Delta R.T. -0.006 min
Lab File: BF143170.D
Acq: 21 Jul 2025 14:30

Tgt Ion:164 Resp: 189302
Ion Ratio Lower Upper
164 100
162 99.7 79.0 118.6
160 43.1 35.1 52.7





#42

2,4,6-Tribromophenol

Concen: 102.873 ng

RT: 10.781 min Scan# 1460

Delta R.T. -0.006 min

Lab File: BF143170.D

Acq: 21 Jul 2025 14:30

Instrument :

BNA_F

ClientSampleId :

RT2286

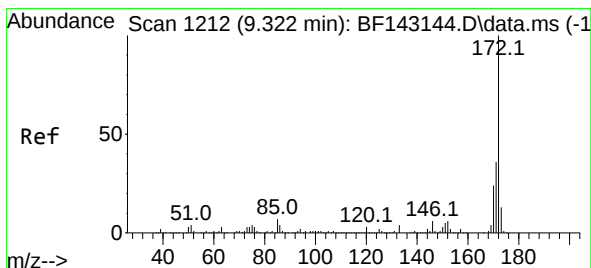
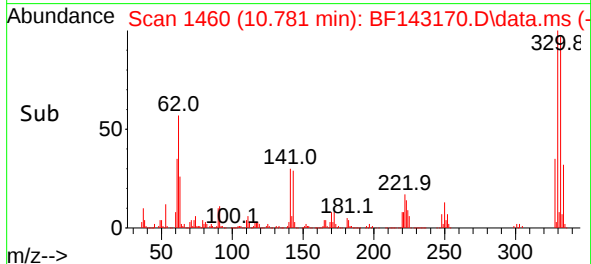
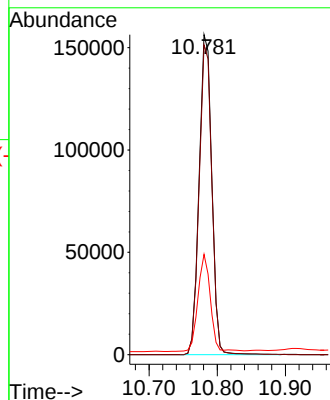
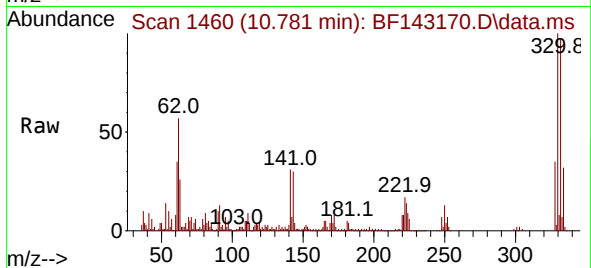
Tgt Ion:330 Resp: 201179

Ion Ratio Lower Upper

330 100

332 97.1 76.7 115.1

141 29.8 23.3 34.9



#45

2-Fluorobiphenyl

Concen: 67.736 ng

RT: 9.316 min Scan# 1211

Delta R.T. -0.006 min

Lab File: BF143170.D

Acq: 21 Jul 2025 14:30

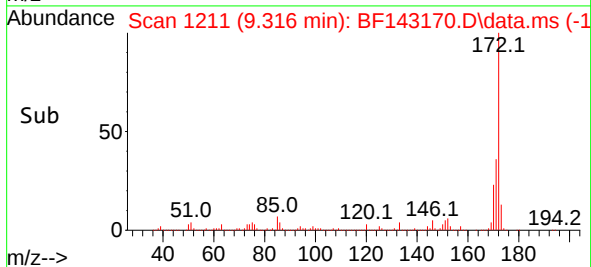
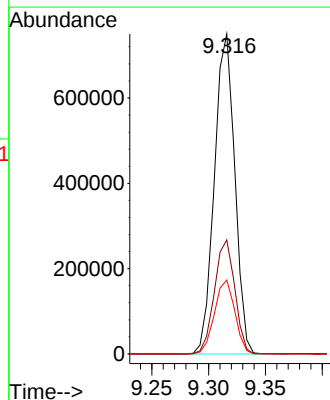
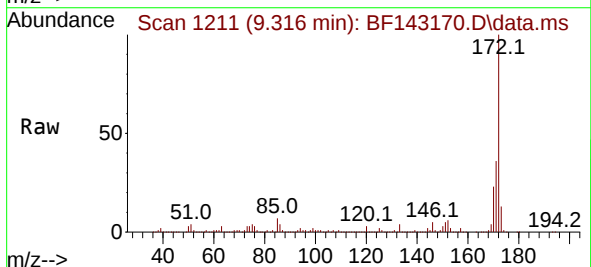
Tgt Ion:172 Resp: 937585

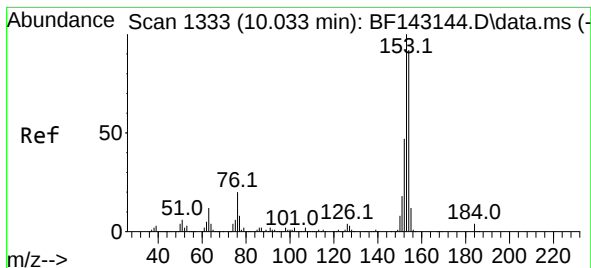
Ion Ratio Lower Upper

172 100

171 35.6 28.6 42.8

170 23.1 18.8 28.2





#52

Acenaphthene

Concen: 2.286 ng

RT: 10.028 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF143170.D

Acq: 21 Jul 2025 14:30

Instrument :

BNA_F

ClientSampleId :

RT2286

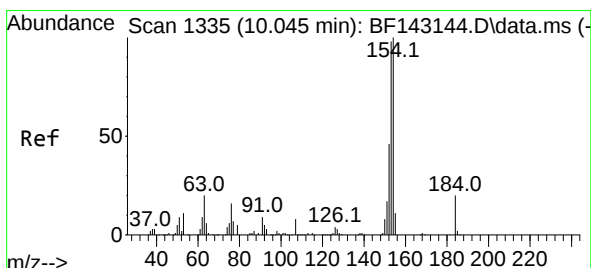
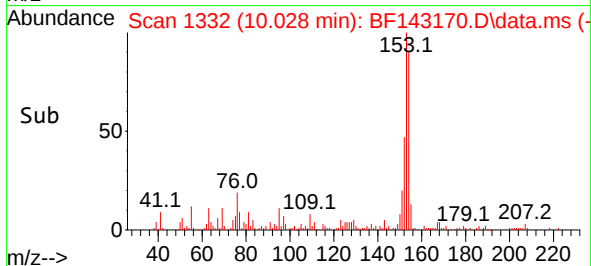
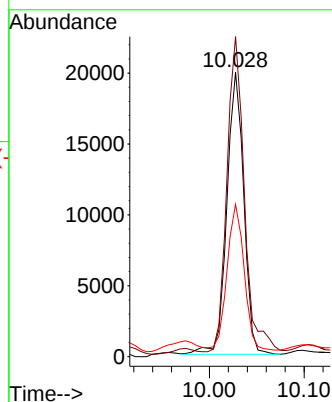
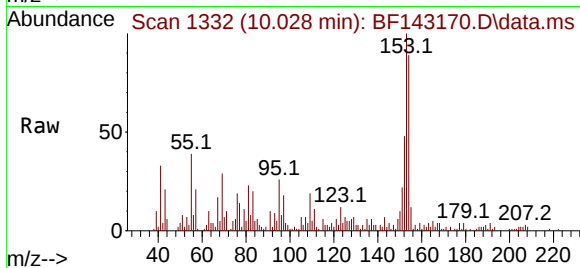
Tgt Ion:154 Resp: 24746

Ion Ratio Lower Upper

154 100

153 112.5 86.6 129.8

152 53.5 40.4 60.6



#54

2,4-Dinitrophenol

Concen: 6.760 ng

RT: 10.286 min Scan# 1376

Delta R.T. 0.241 min

Lab File: BF143170.D

Acq: 21 Jul 2025 14:30

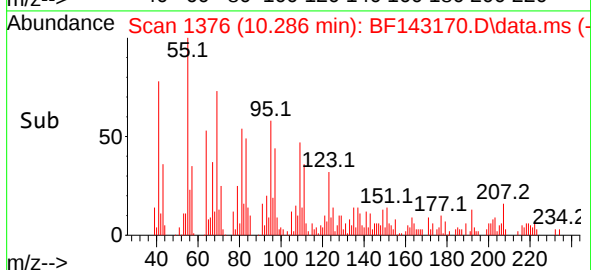
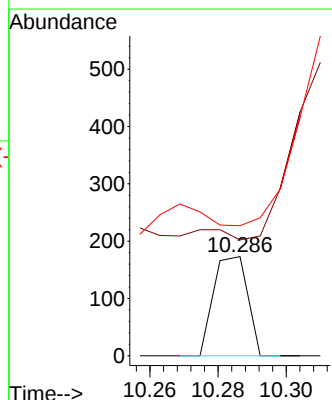
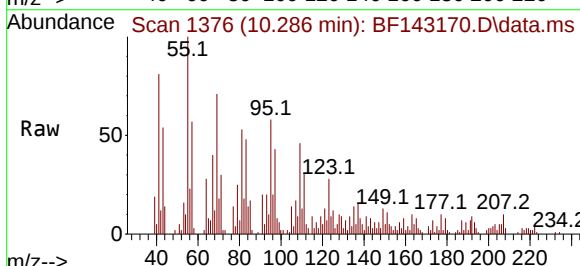
Tgt Ion:184 Resp: 120

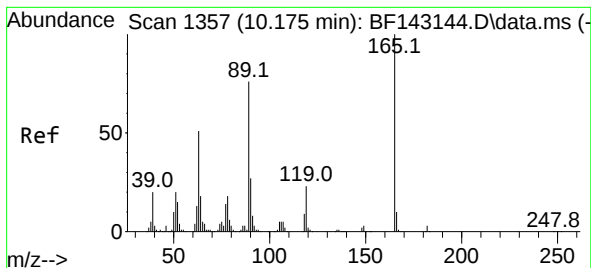
Ion Ratio Lower Upper

184 100

63 116.8 81.8 122.6

154 131.2 412.2 618.4#

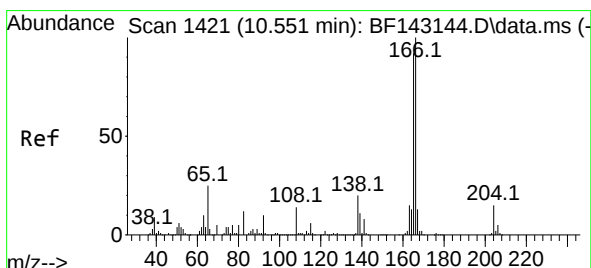
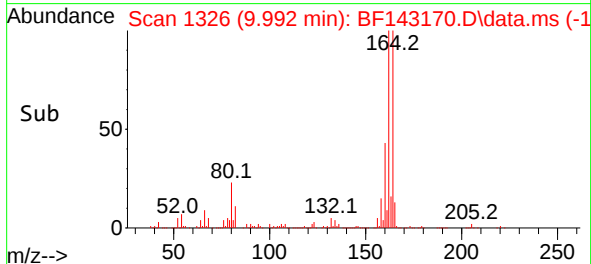
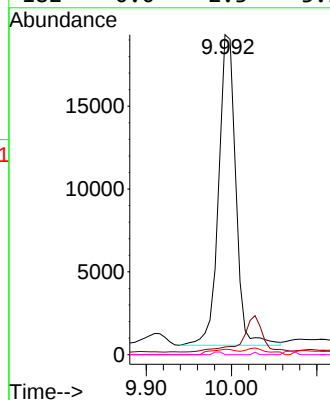
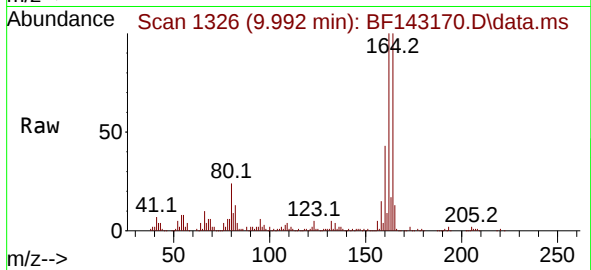




#57
2,4-Dinitrotoluene
Concen: 8.350 ng
RT: 9.992 min Scan# 11
Delta R.T. -0.182 min
Lab File: BF143170.D
Acq: 21 Jul 2025 14:30

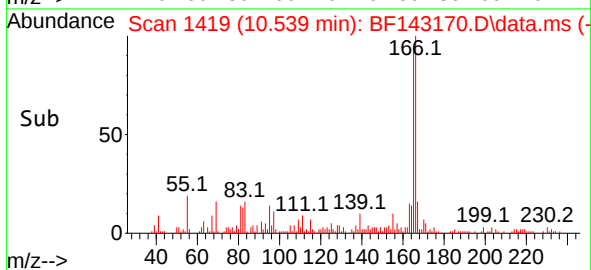
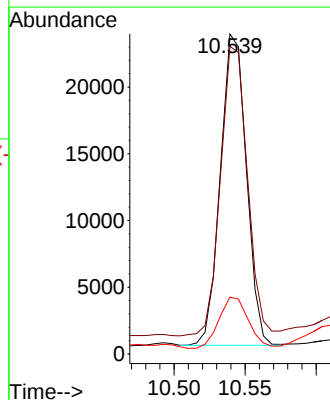
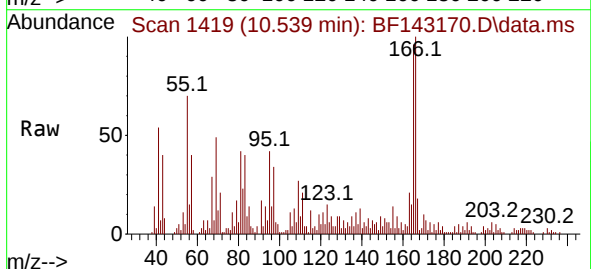
Instrument :
BNA_F
ClientSampleId :
RT2286

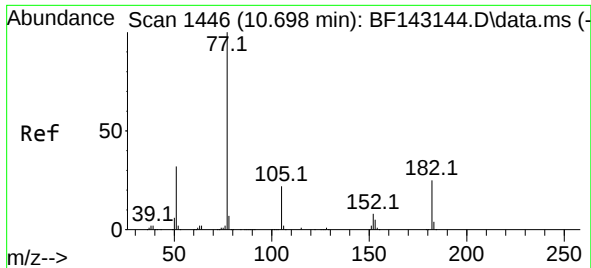
Tgt Ion:165 Resp: 26297
Ion Ratio Lower Upper
165 100
63 2.4 41.0 61.4#
89 1.7 61.1 91.7#
182 0.0 2.3 3.5#



#58
Fluorene
Concen: 2.462 ng
RT: 10.539 min Scan# 1419
Delta R.T. -0.012 min
Lab File: BF143170.D
Acq: 21 Jul 2025 14:30

Tgt Ion:166 Resp: 29697
Ion Ratio Lower Upper
166 100
165 96.1 73.7 110.5
167 17.8 10.6 16.0#

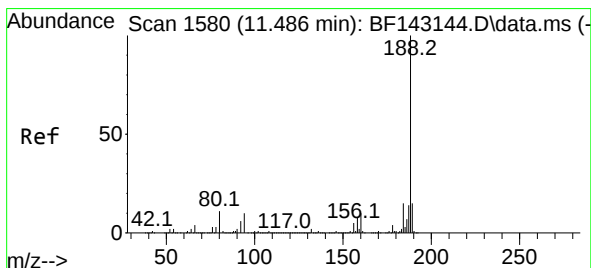
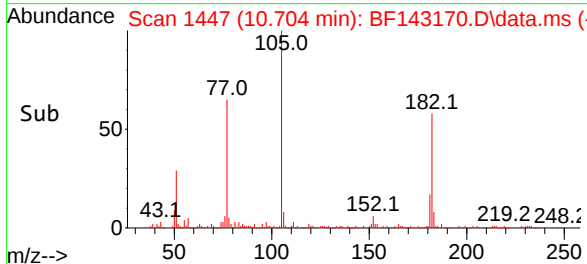
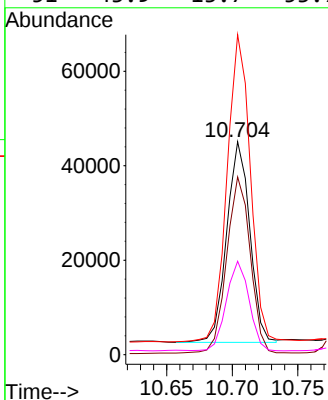
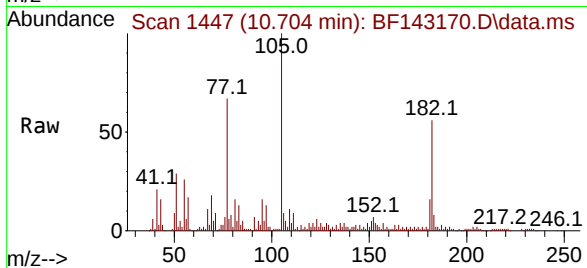




#63
Azobenzene
Concen: 4.105 ng
RT: 10.704 min Scan# 1446
Delta R.T. 0.006 min
Lab File: BF143170.D
Acq: 21 Jul 2025 14:30

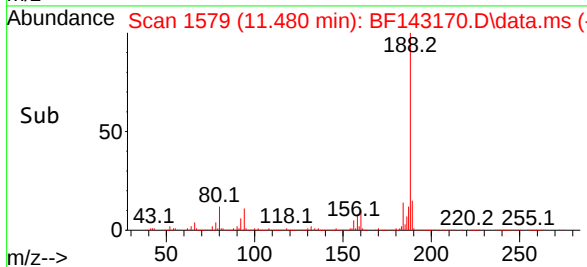
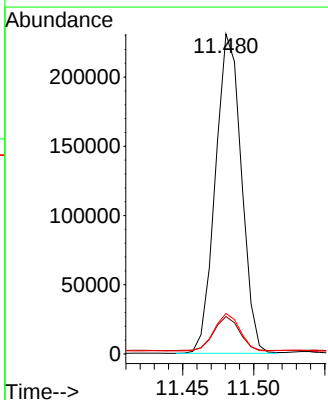
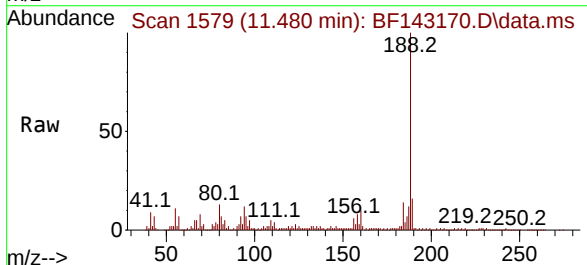
Instrument :
BNA_F
ClientSampleId :
RT2286

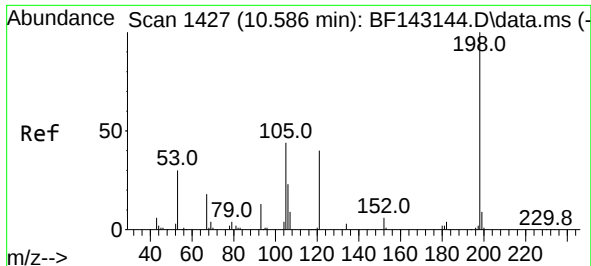
Tgt Ion: 77 Resp: 52179
Ion Ratio Lower Upper
77 100
182 83.4 4.6 44.6#
105 150.2 1.4 41.4#
51 43.9 13.7 53.7



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.480 min Scan# 1579
Delta R.T. -0.006 min
Lab File: BF143170.D
Acq: 21 Jul 2025 14:30

Tgt Ion:188 Resp: 293438
Ion Ratio Lower Upper
188 100
94 11.7 8.3 12.5
80 12.6 9.0 13.6





#65

4,6-Dinitro-2-methylphenol

Concen: 5.558 ng

RT: 10.569 min Scan# 14

Delta R.T. -0.017 min

Lab File: BF143170.D

Acq: 21 Jul 2025 14:30

Instrument :

BNA_F

ClientSampleId :

RT2286

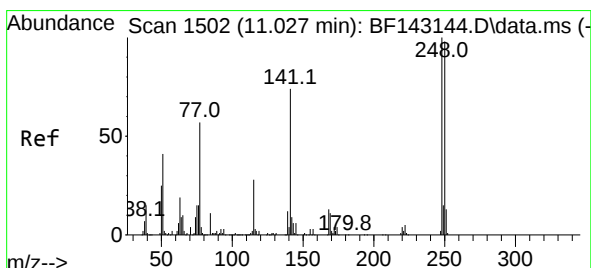
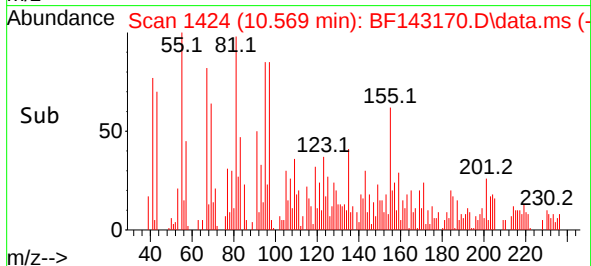
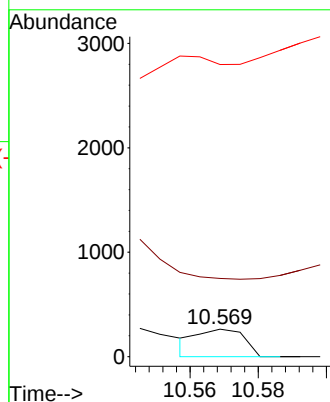
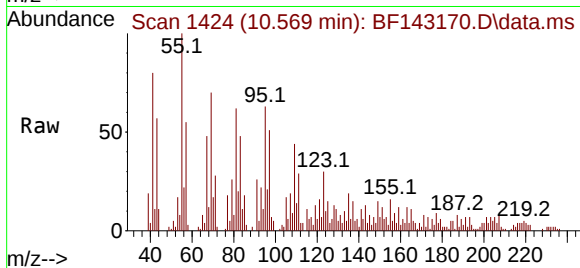
Tgt Ion:198 Resp: 252

Ion Ratio Lower Upper

198 100

51 285.2 37.2 77.2#

105 1064.3 24.8 64.8#



#67

4-Bromophenyl-phenylether

Concen: 3.950 ng

RT: 10.781 min Scan# 1460

Delta R.T. -0.247 min

Lab File: BF143170.D

Acq: 21 Jul 2025 14:30

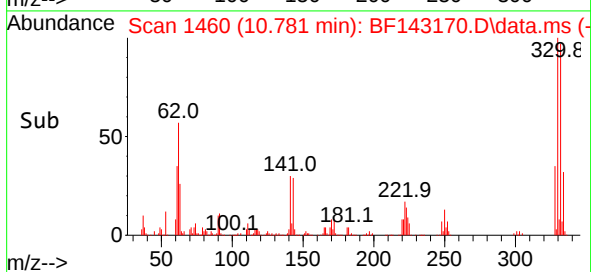
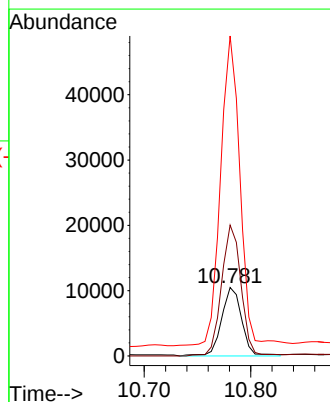
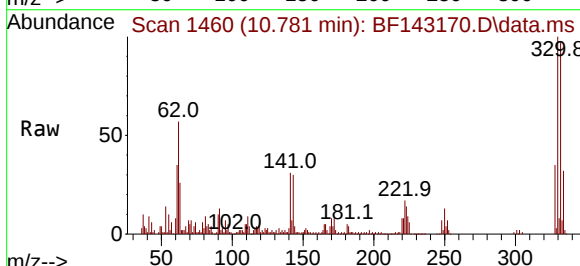
Tgt Ion:248 Resp: 13812

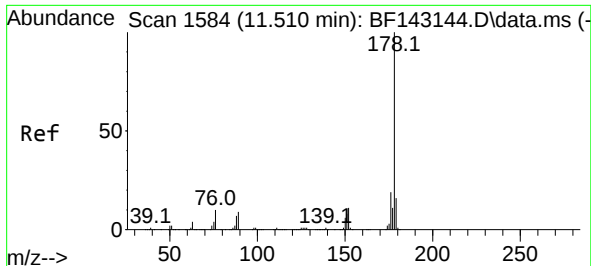
Ion Ratio Lower Upper

248 100

250 191.3 78.3 117.5#

141 467.6 59.2 88.8#

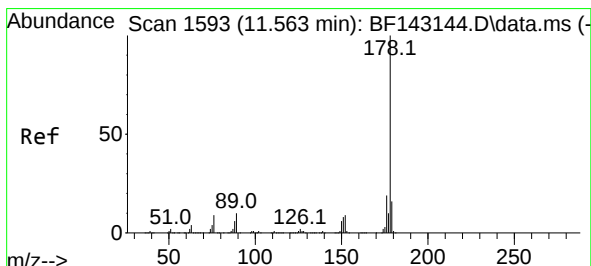
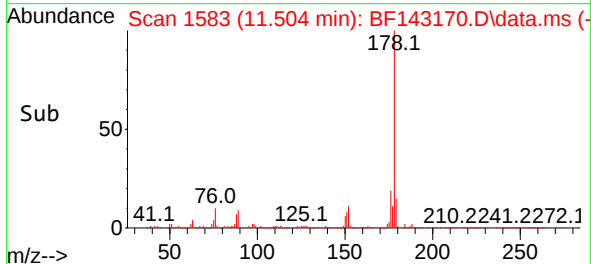
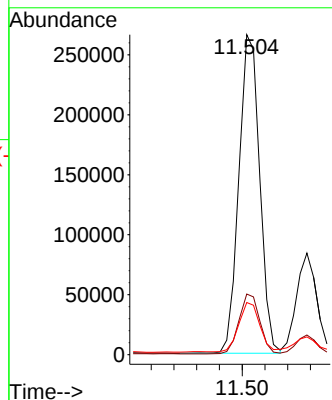
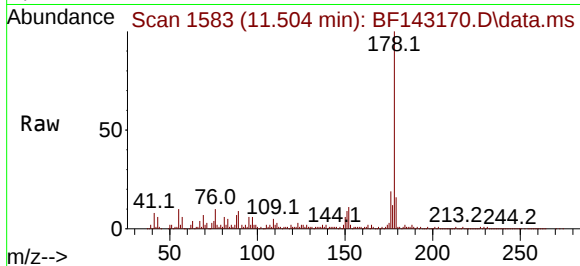




#71
Phenanthrene
Concen: 21.670 ng
RT: 11.504 min Scan# 1583
Delta R.T. -0.006 min
Lab File: BF143170.D
Acq: 21 Jul 2025 14:30

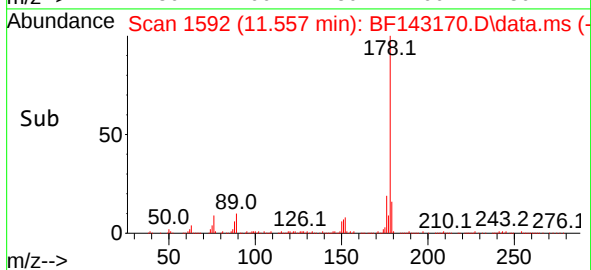
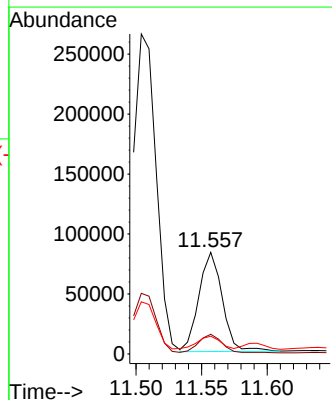
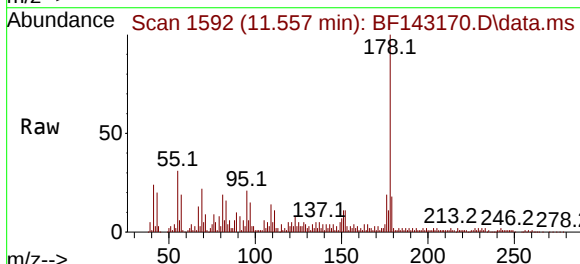
Instrument :
BNA_F
ClientSampleId :
RT2286

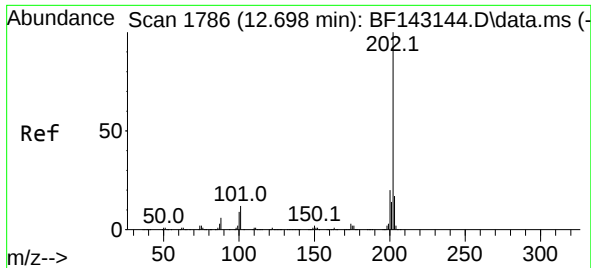
Tgt Ion:178 Resp: 337638
Ion Ratio Lower Upper
178 100
176 18.9 15.3 22.9
179 16.3 12.5 18.7



#72
Anthracene
Concen: 6.500 ng
RT: 11.557 min Scan# 1592
Delta R.T. -0.006 min
Lab File: BF143170.D
Acq: 21 Jul 2025 14:30

Tgt Ion:178 Resp: 103286
Ion Ratio Lower Upper
178 100
176 19.3 15.0 22.4
179 17.5 12.5 18.7

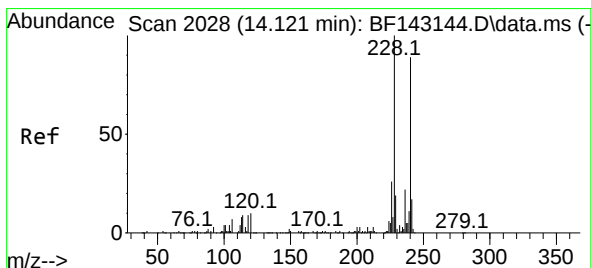
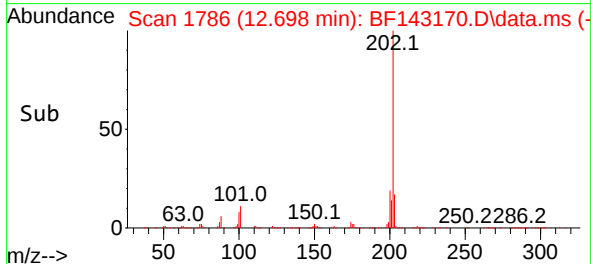
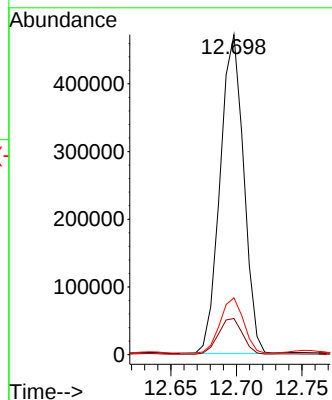
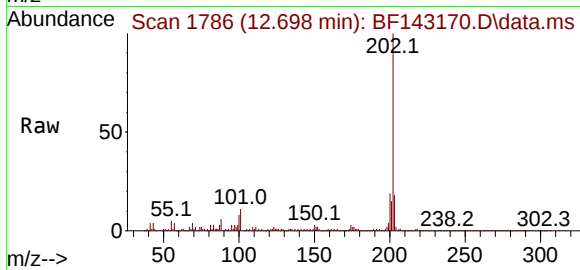




#75
Fluoranthene
Concen: 41.210 ng
RT: 12.698 min Scan# 1786
Delta R.T. 0.000 min
Lab File: BF143170.D
Acq: 21 Jul 2025 14:30

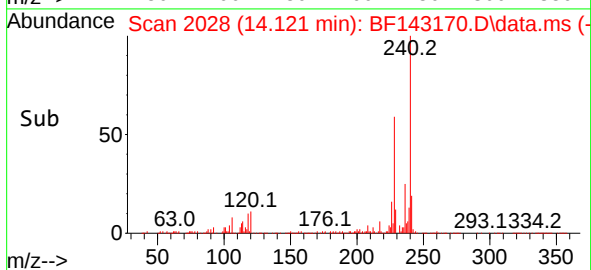
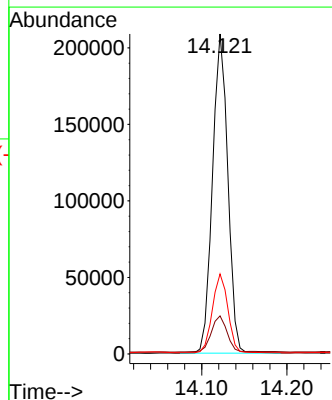
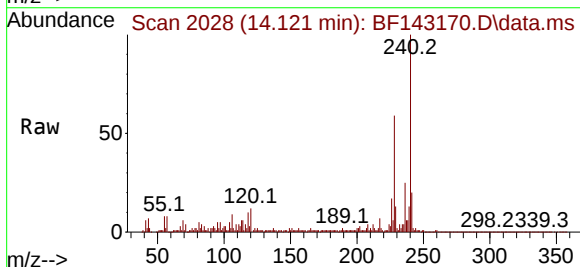
Instrument :
BNA_F
ClientSampleId :
RT2286

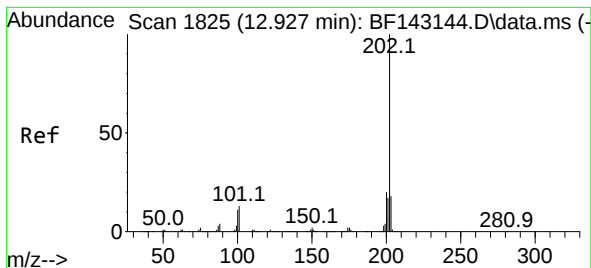
Tgt Ion:202 Resp: 589349
Ion Ratio Lower Upper
202 100
101 11.3 0.0 31.7
203 17.7 0.0 37.4



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.121 min Scan# 2028
Delta R.T. 0.000 min
Lab File: BF143170.D
Acq: 21 Jul 2025 14:30

Tgt Ion:240 Resp: 260679
Ion Ratio Lower Upper
240 100
120 11.9 9.4 14.2
236 25.0 20.2 30.4





#78

Pyrene

Concen: 26.435 ng

RT: 12.927 min Scan# 1825

Delta R.T. 0.000 min

Lab File: BF143170.D

Acq: 21 Jul 2025 14:30

Instrument :

BNA_F

ClientSampleId :

RT2286

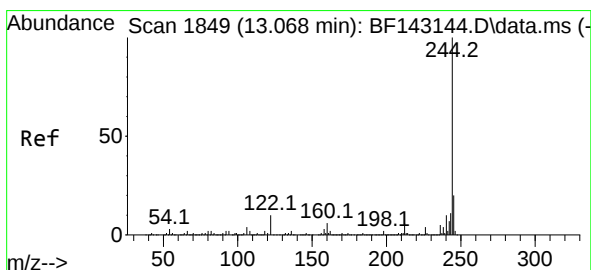
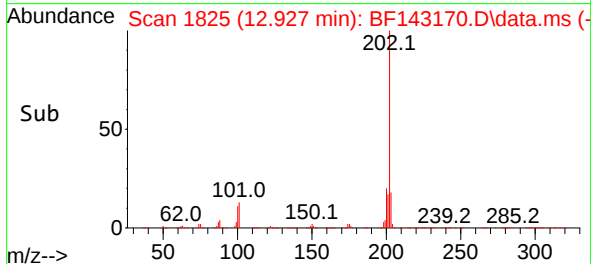
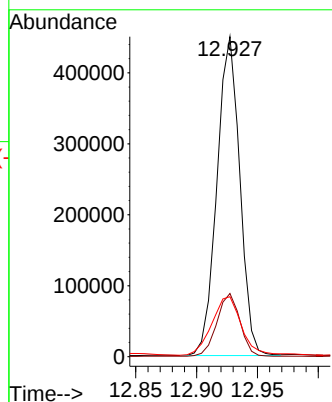
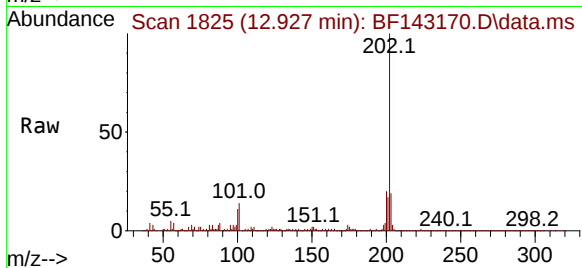
Tgt Ion:202 Resp: 588106

Ion Ratio Lower Upper

202 100

200 19.7 15.7 23.5

203 18.8 14.2 21.2



#79

Terphenyl-d14

Concen: 46.077 ng

RT: 13.069 min Scan# 1849

Delta R.T. 0.000 min

Lab File: BF143170.D

Acq: 21 Jul 2025 14:30

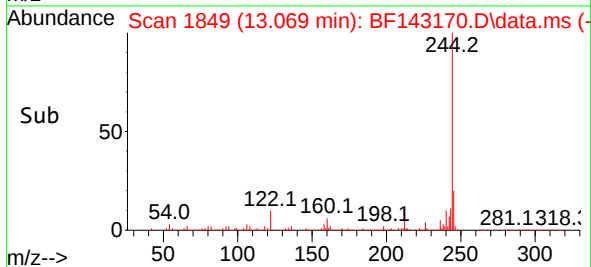
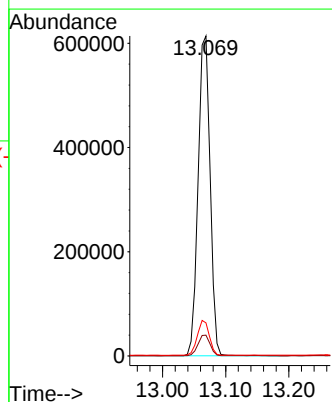
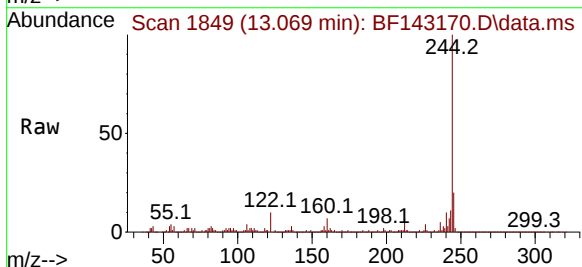
Tgt Ion:244 Resp: 807150

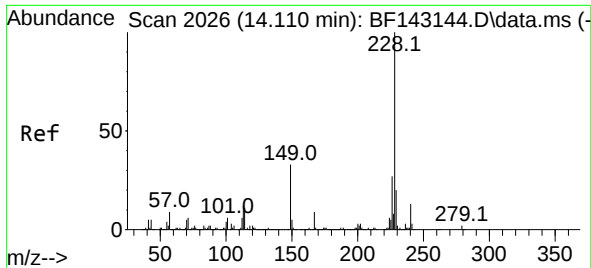
Ion Ratio Lower Upper

244 100

212 6.5 5.2 7.8

122 10.4 8.2 12.2

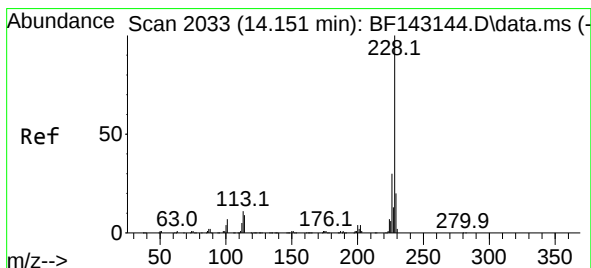
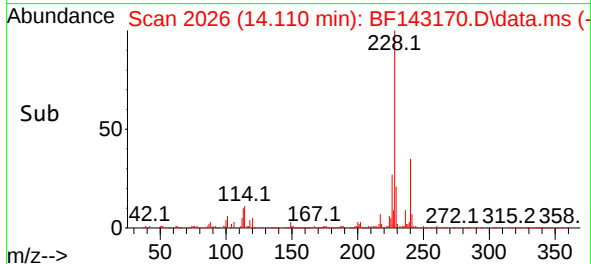
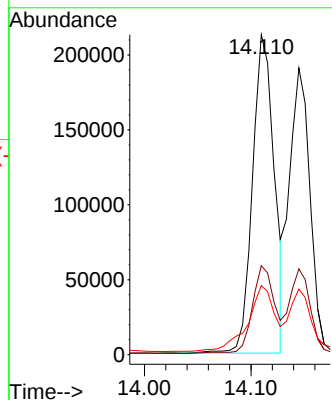
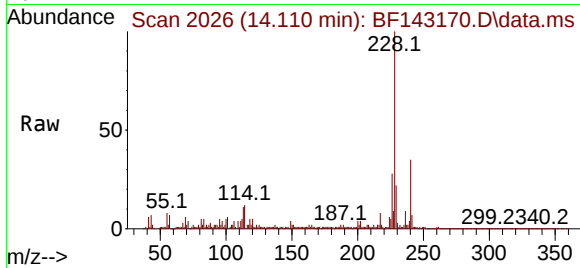




#81
Benzo(a)anthracene
Concen: 17.267 ng
RT: 14.110 min Scan# 2026
Delta R.T. 0.000 min
Lab File: BF143170.D
Acq: 21 Jul 2025 14:30

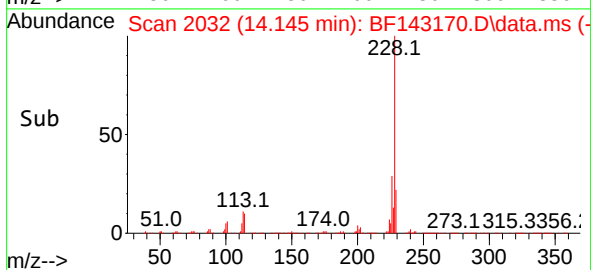
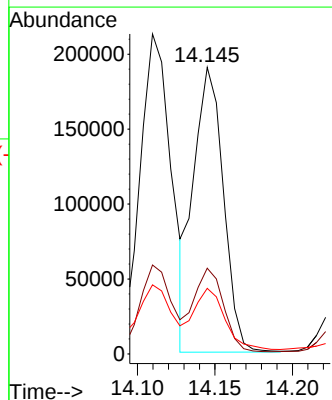
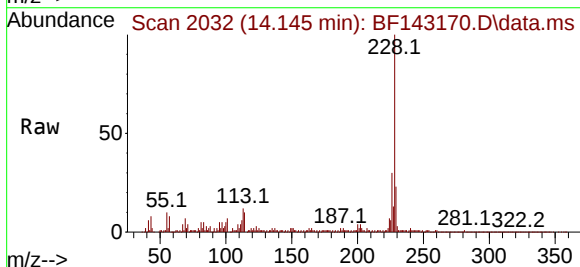
Instrument :
BNA_F
ClientSampleId :
RT2286

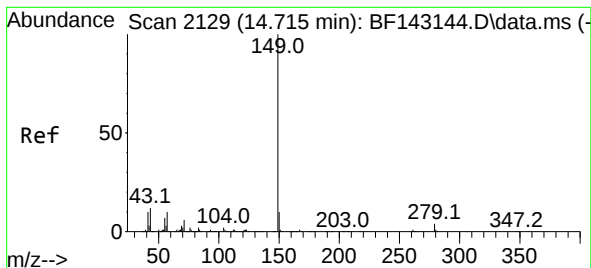
Tgt Ion:228 Resp: 301345
Ion Ratio Lower Upper
228 100
226 27.8 21.7 32.5
229 21.6 15.8 23.6



#83
Chrysene
Concen: 16.239 ng
RT: 14.145 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF143170.D
Acq: 21 Jul 2025 14:30

Tgt Ion:228 Resp: 254809
Ion Ratio Lower Upper
228 100
226 29.9 23.8 35.8
229 22.9 15.6 23.4





#85

Di-n-octyl phthalate

Concen: 3.632 ng

RT: 14.757 min Scan# 2136

Delta R.T. 0.041 min

Lab File: BF143170.D

Acq: 21 Jul 2025 14:30

Instrument :

BNA_F

ClientSampleId :

RT2286

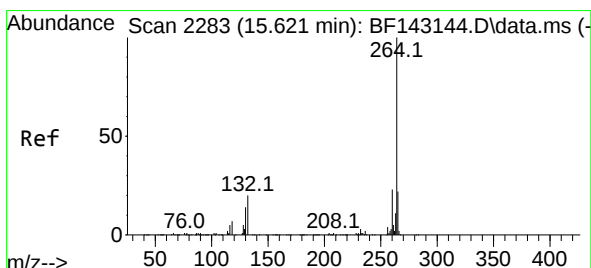
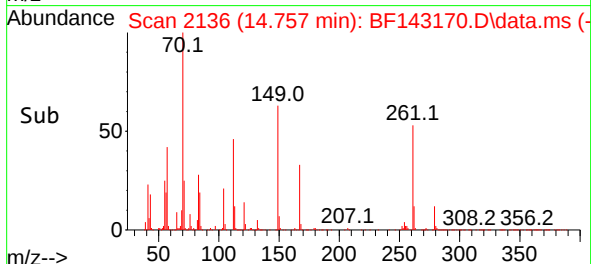
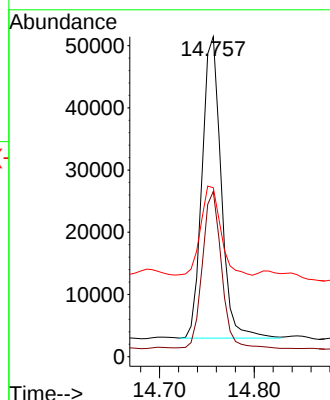
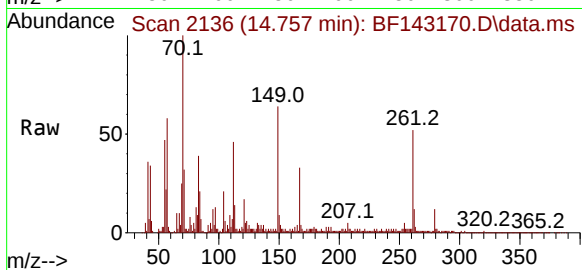
Tgt Ion:149 Resp: 67877

Ion Ratio Lower Upper

149 100

167 52.1 1.1 1.7#

43 30.7 9.7 14.5#



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.627 min Scan# 2284

Delta R.T. 0.006 min

Lab File: BF143170.D

Acq: 21 Jul 2025 14:30

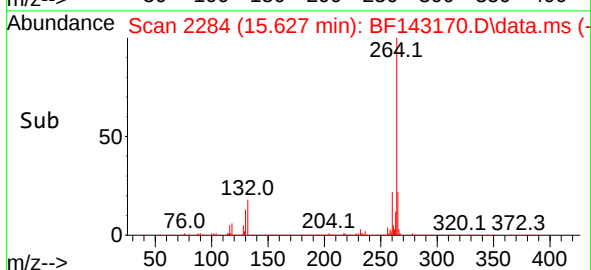
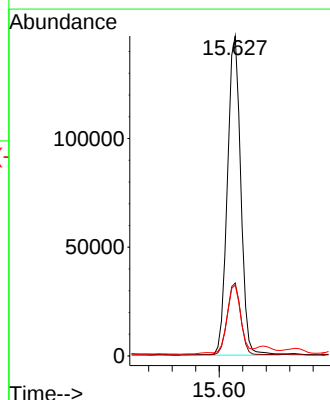
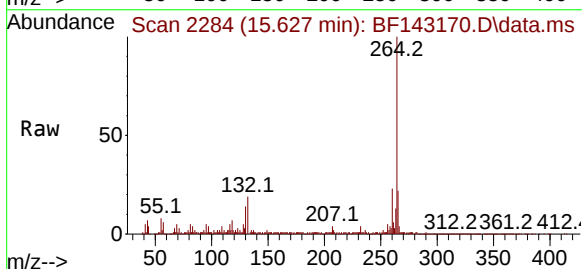
Tgt Ion:264 Resp: 231121

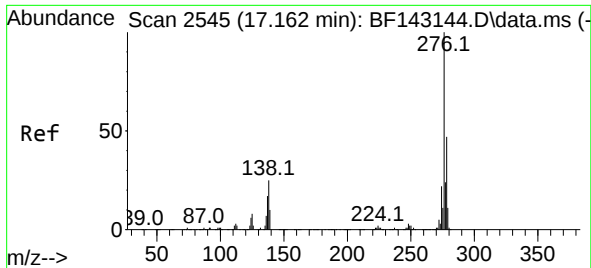
Ion Ratio Lower Upper

264 100

260 22.8 18.5 27.7

265 22.1 17.4 26.2

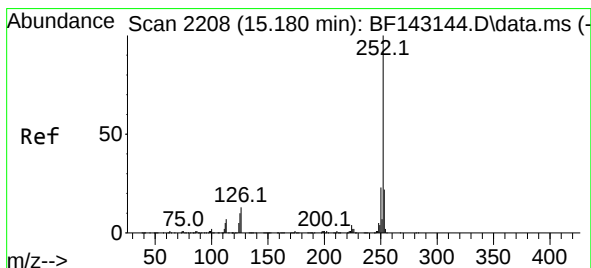
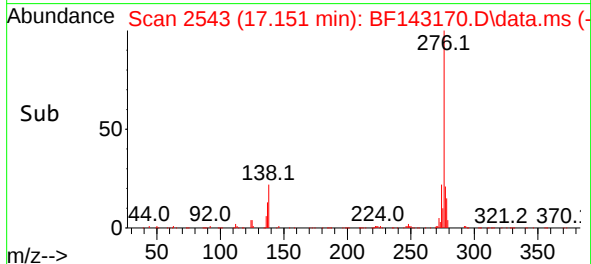
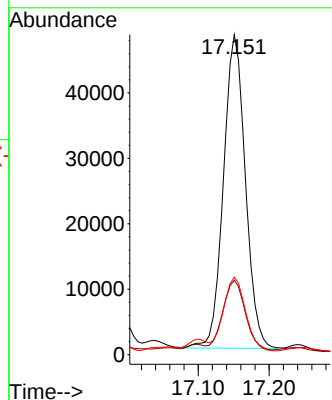
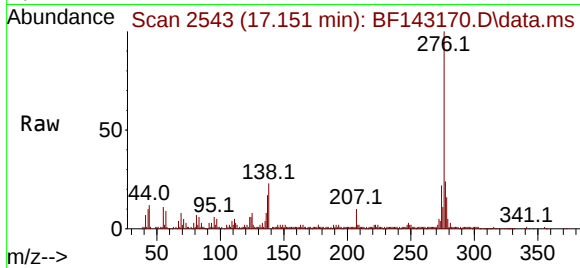




#87
 Indeno(1,2,3-cd)pyrene
 Concen: 6.306 ng
 RT: 17.151 min Scan# 21
 Delta R.T. -0.012 min
 Lab File: BF143170.D
 Acq: 21 Jul 2025 14:30

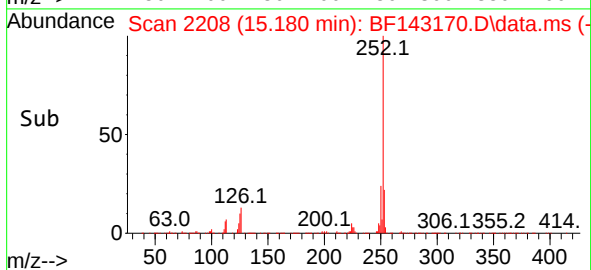
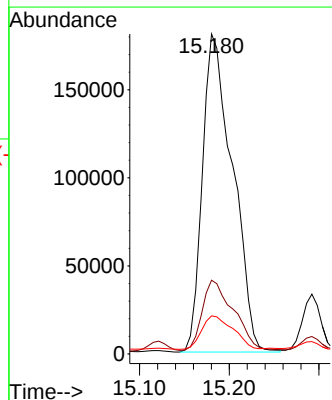
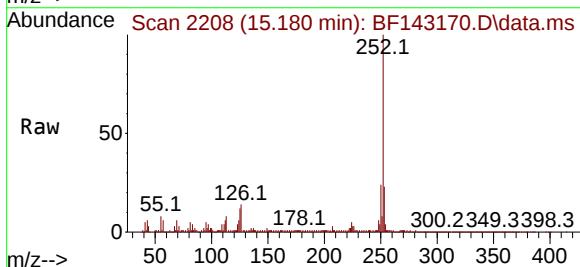
Instrument :
 BNA_F
 ClientSampleId :
 RT2286

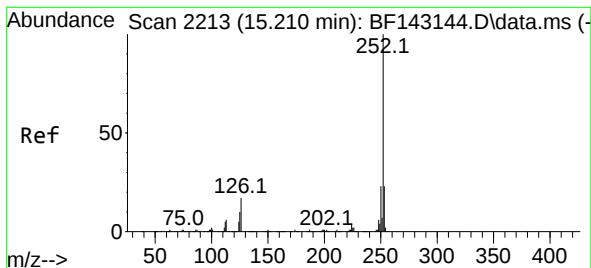
Tgt Ion:276 Resp: 102773
 Ion Ratio Lower Upper
 276 100
 138 22.5 21.8 32.6
 277 23.6 20.0 30.0



#88
 Benzo(b)fluoranthene
 Concen: 29.931 ng
 RT: 15.180 min Scan# 2208
 Delta R.T. 0.000 min
 Lab File: BF143170.D
 Acq: 21 Jul 2025 14:30

Tgt Ion:252 Resp: 422608
 Ion Ratio Lower Upper
 252 100
 253 23.1 17.5 26.3
 125 11.9 8.0 12.0





#89

Benzo(k)fluoranthene

Concen: 33.542 ng

RT: 15.180 min Scan# 21

Delta R.T. -0.029 min

Lab File: BF143170.D

Acq: 21 Jul 2025 14:30

Instrument :

BNA_F

ClientSampleId :

RT2286

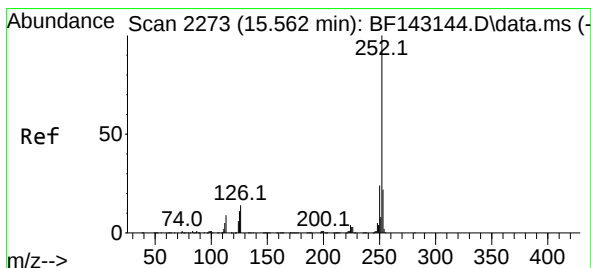
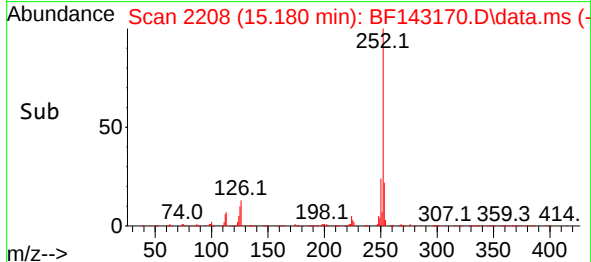
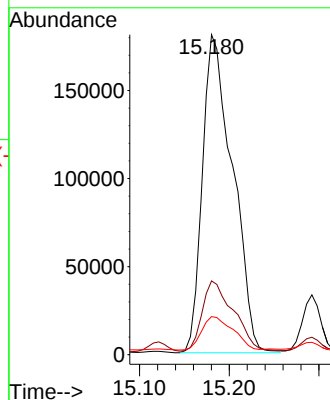
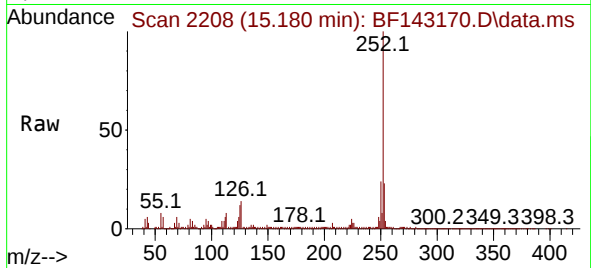
Tgt Ion:252 Resp: 422608

Ion Ratio Lower Upper

252 100

253 23.1 17.8 26.6

125 11.9 8.1 12.1



#90

Benzo(a)pyrene

Concen: 18.175 ng

RT: 15.557 min Scan# 2272

Delta R.T. -0.006 min

Lab File: BF143170.D

Acq: 21 Jul 2025 14:30

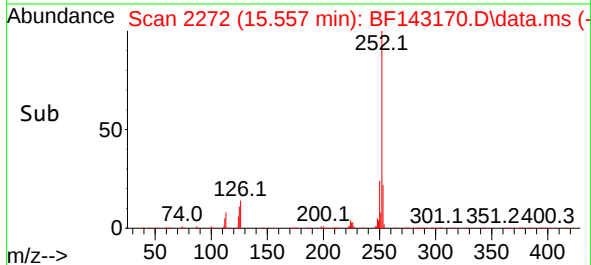
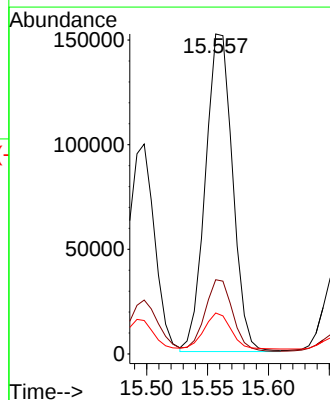
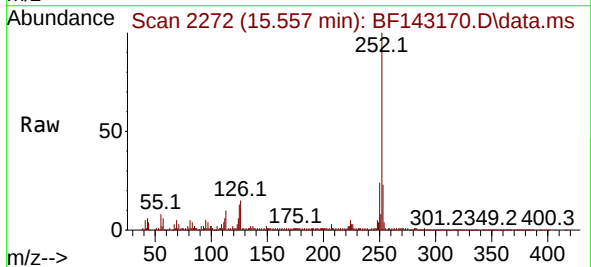
Tgt Ion:252 Resp: 236440

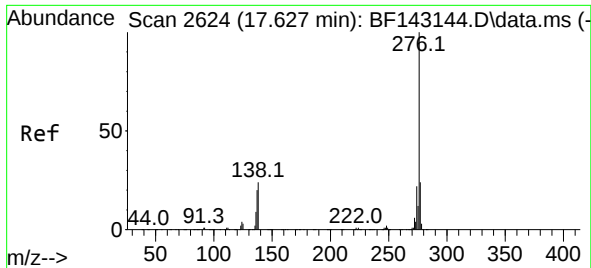
Ion Ratio Lower Upper

252 100

253 23.2 17.3 25.9

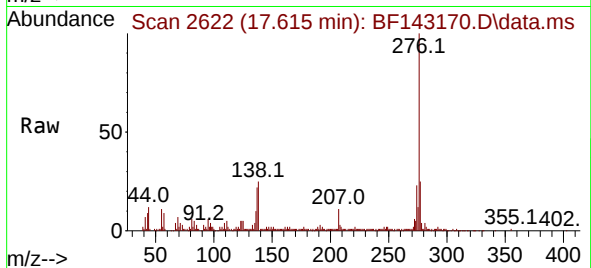
125 12.8 8.6 13.0





#92
 Benzo(g,h,i)perylene
 Concen: 7.747 ng
 RT: 17.615 min Scan# 20
 Delta R.T. -0.012 min
 Lab File: BF143170.D
 Acq: 21 Jul 2025 14:30

Instrument :
 BNA_F
 ClientSampleId :
 RT2286



Tgt Ion:276 Resp: 99410
 Ion Ratio Lower Upper
 276 100
 277 25.1 19.1 28.7
 138 24.8 18.9 28.3

