

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012025\
 Data File : BF141224.D
 Acq On : 20 Jan 2025 15:58
 Operator : RC/JU
 Sample : Q1132-04 5X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HD-2-011725

Quant Time: Jan 20 16:18:22 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 10 22:54:19 2025
 Response via : Initial Calibration

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

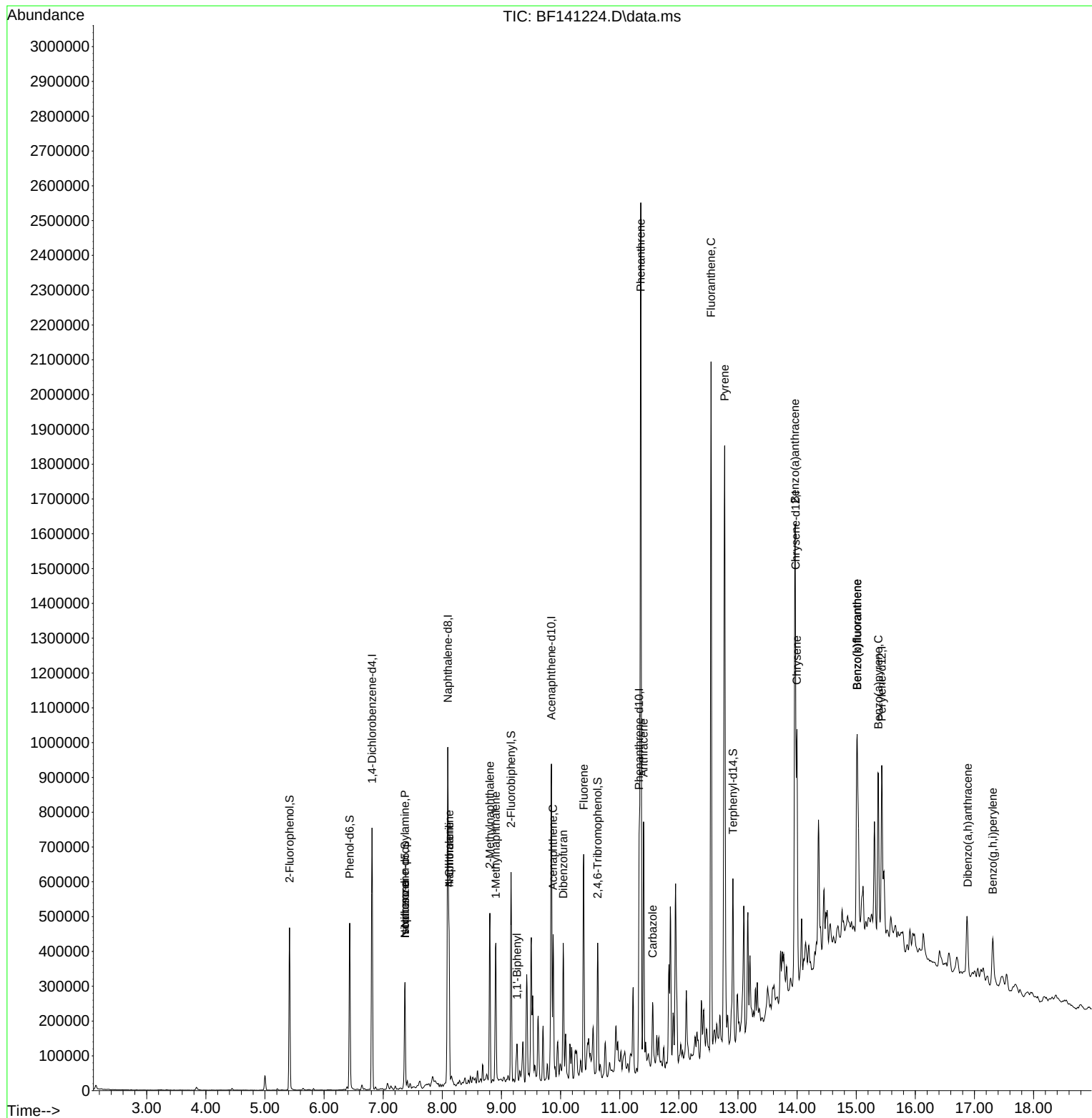
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.810	152	156614	20.000	ng	-0.01
21) Naphthalene-d8	8.092	136	584725	20.000	ng	-0.01
39) Acenaphthene-d10	9.845	164	264991	20.000	ng	-0.02
64) Phenanthrene-d10	11.327	188	358268	20.000	ng	-0.02
76) Chrysene-d12	13.974	240	315369	20.000	ng	-0.01
86) Perylene-d12	15.433	264	272616	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.416	112	179219	17.678	ng	-0.01
7) Phenol-d6	6.434	99	219854	17.120	ng	-0.01
23) Nitrobenzene-d5	7.369	82	133626	12.114	ng	-0.02
42) 2,4,6-Tribromophenol	10.628	330	45120	14.943	ng	-0.02
45) 2-Fluorobiphenyl	9.163	172	252769	14.566	ng	-0.02
79) Terphenyl-d14	12.916	244	206524	9.733	ng	-0.02
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.369	70	18331	2.423	ng	# 77
25) Isophorone	7.369	82	131477	6.975	ng	# 65
31) Naphthalene	8.116	128	263052	8.531	ng	98
33) 4-Chloroaniline	8.116	127	33859	3.175	ng	# 32
37) 2-Methylnaphthalene	8.804	142	183344	9.331	ng	100
38) 1-Methylnaphthalene	8.904	142	144663	7.470	ng	100
46) 1,1'-Biphenyl	9.263	154	43662	2.122	ng	100
52) Acenaphthene	9.875	154	120479	7.530	ng	99
55) Dibenzofuran	10.045	168	142547	6.550	ng	# 96
58) Fluorene	10.392	166	237761	14.063	ng	99
71) Phenanthrene	11.357	178	1332913	69.299	ng	99
72) Anthracene	11.404	178	393222	21.025	ng	99
73) Carbazole	11.557	167	97621	5.693	ng	100
75) Fluoranthene	12.545	202	1089046	56.739	ng	99
78) Pyrene	12.774	202	1001611	33.252	ng	99
81) Benzo(a)anthracene	13.963	228	500021	23.297	ng	96
83) Chrysene	13.998	228	375149	18.680	ng	97
88) Benzo(b)fluoranthene	15.015	252	524663	29.846	ng	97
89) Benzo(k)fluoranthene	15.015	252	524663	35.317	ng	97
90) Benzo(a)pyrene	15.374	252	298518	20.582	ng	99
91) Dibenzo(a,h)anthracene	16.886	278	35697	2.210	ng	# 88
92) Benzo(g,h,i)perylene	17.309	276	126507	7.529	ng	98

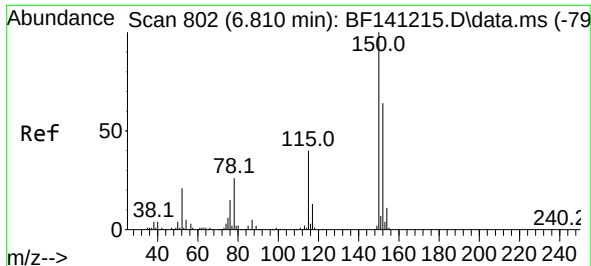
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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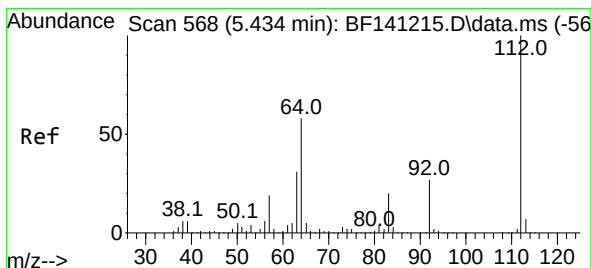
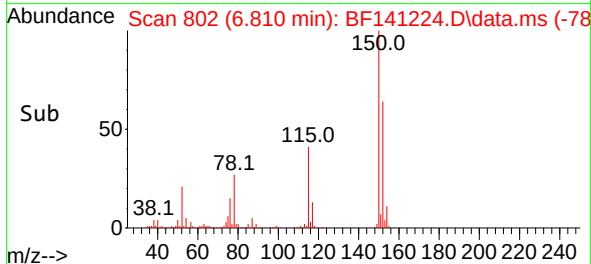
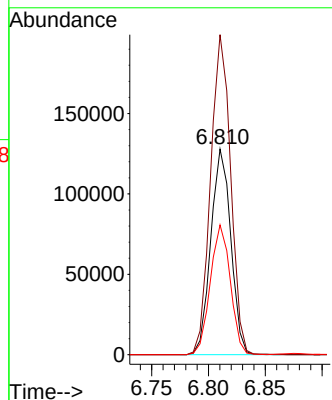
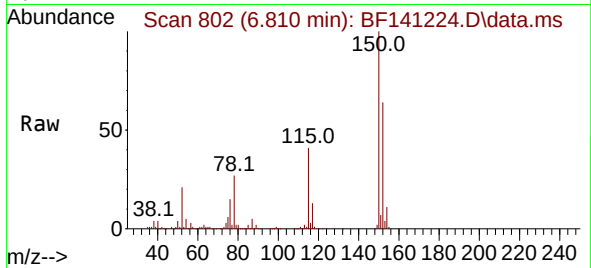




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.810 min Scan# 80
Delta R.T. -0.012 min
Lab File: BF141224.D
Acq: 20 Jan 2025 15:58

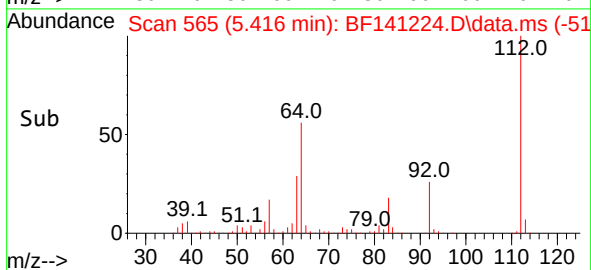
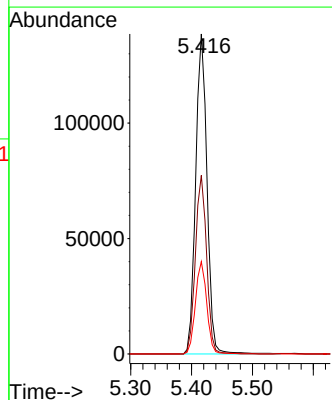
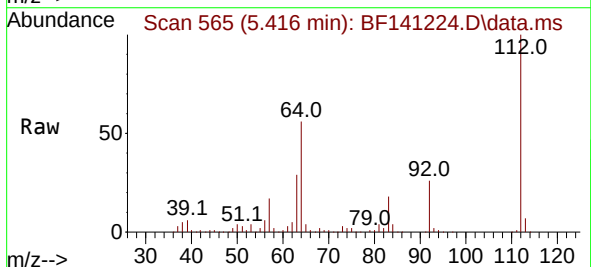
Instrument :
BNA_F
ClientSampleId :
HD-2-011725

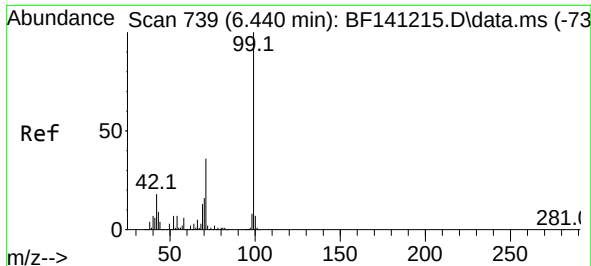
Tgt Ion:152 Resp: 156614
Ion Ratio Lower Upper
152 100
150 155.7 125.8 188.8
115 63.1 51.4 77.2



#5
2-Fluorophenol
Concen: 17.678 ng
RT: 5.416 min Scan# 565
Delta R.T. -0.012 min
Lab File: BF141224.D
Acq: 20 Jan 2025 15:58

Tgt Ion:112 Resp: 179219
Ion Ratio Lower Upper
112 100
64 55.8 47.3 70.9
63 28.9 24.2 36.2

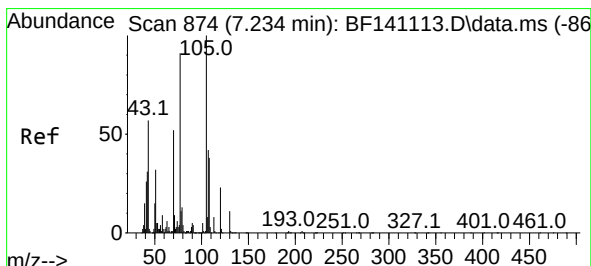
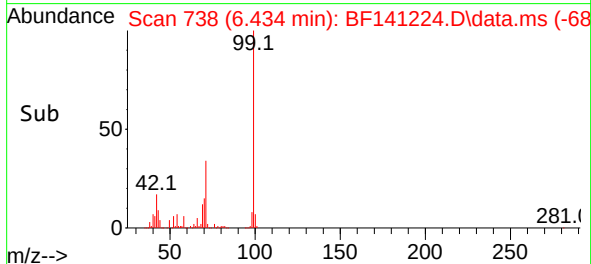
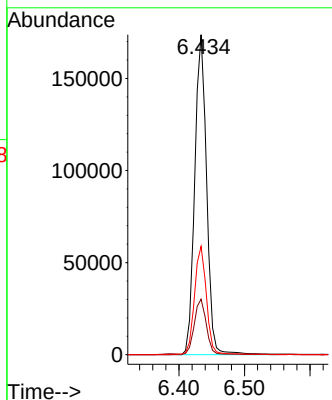
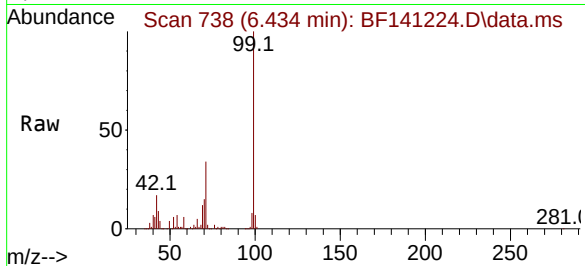




#7
Phenol-d6
Concen: 17.120 ng
RT: 6.434 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF141224.D
Acq: 20 Jan 2025 15:58

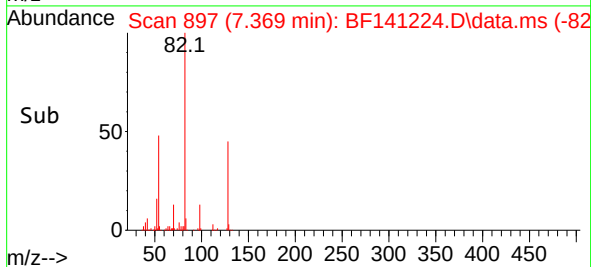
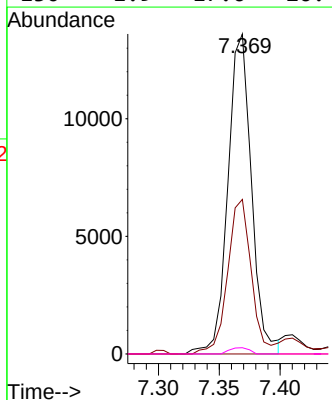
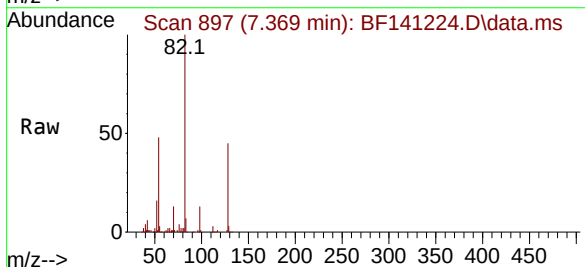
Instrument :
BNA_F
ClientSampleId :
HD-2-011725

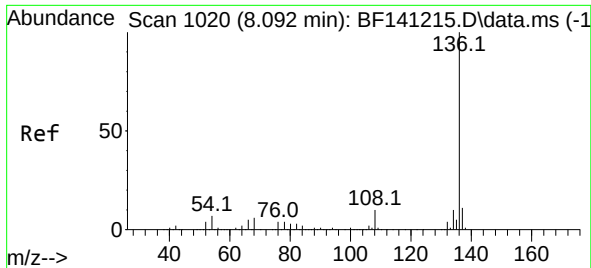
Tgt Ion: 99 Resp: 219854
Ion Ratio Lower Upper
99 100
42 17.3 15.0 22.4
71 33.9 27.6 41.4



#19
n-Nitroso-di-n-propylamine
Concen: 2.423 ng
RT: 7.369 min Scan# 897
Delta R.T. 0.135 min
Lab File: BF141224.D
Acq: 20 Jan 2025 15:58

Tgt Ion: 70 Resp: 18331
Ion Ratio Lower Upper
70 100
42 48.3 47.8 71.6
101 0.0 7.9 11.9#
130 1.9 17.6 26.4#



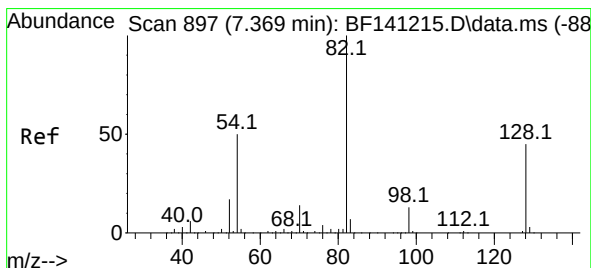
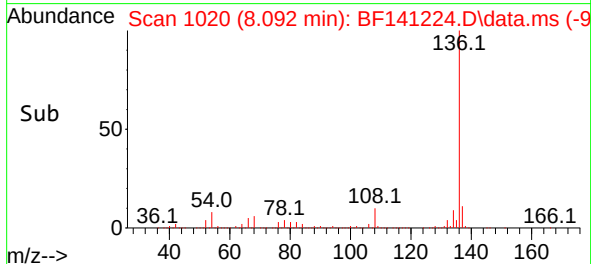
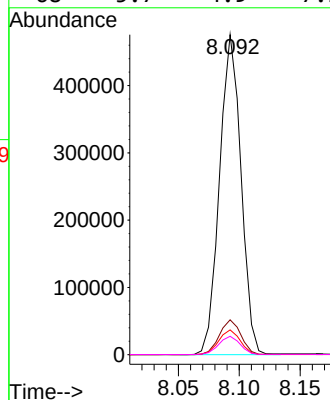
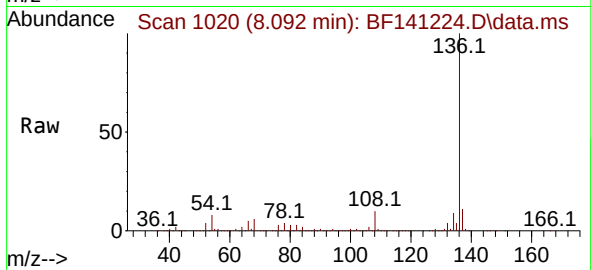


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.092 min Scan# 10
Delta R.T. -0.012 min
Lab File: BF141224.D
Acq: 20 Jan 2025 15:58

Instrument :
BNA_F
ClientSampleId :
HD-2-011725

Tgt Ion:136 Resp: 584725

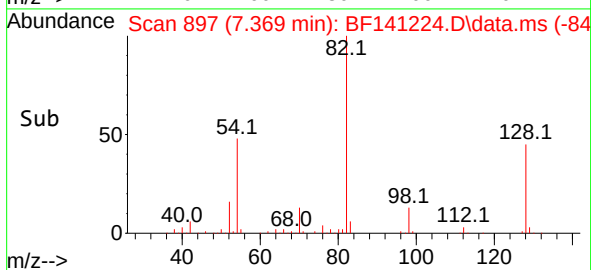
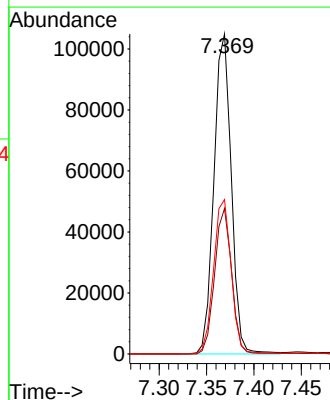
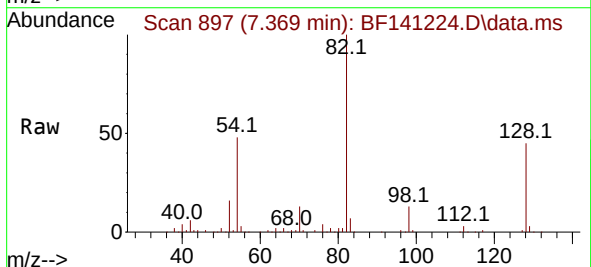
Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.8	13.2
54	7.7	6.3	9.5
68	5.7	4.9	7.3

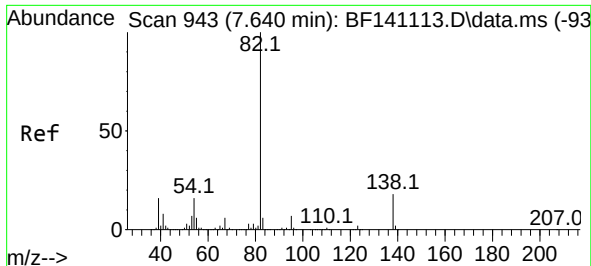


#23
Nitrobenzene-d5
Concen: 12.114 ng
RT: 7.369 min Scan# 897
Delta R.T. -0.018 min
Lab File: BF141224.D
Acq: 20 Jan 2025 15:58

Tgt Ion: 82 Resp: 133626

Ion	Ratio	Lower	Upper
82	100		
128	45.4	36.1	54.1
54	48.3	41.0	61.4

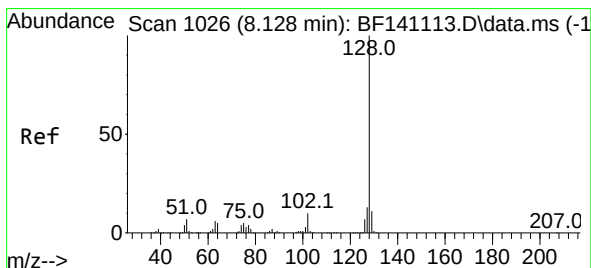
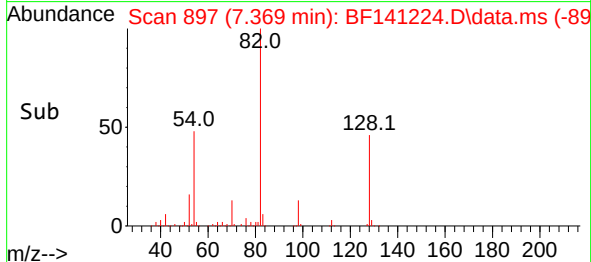
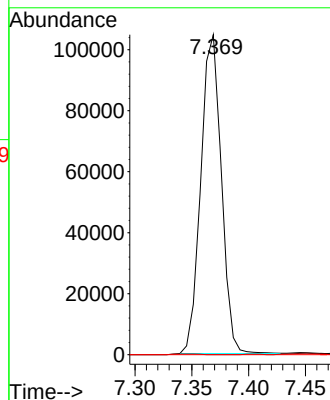
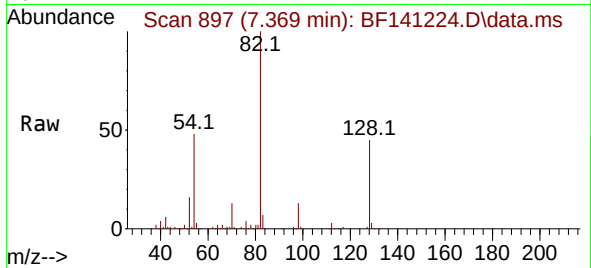




#25
Isophorone
Concen: 6.975 ng
RT: 7.369 min Scan# 897
Delta R.T. -0.271 min
Lab File: BF141224.D
Acq: 20 Jan 2025 15:58

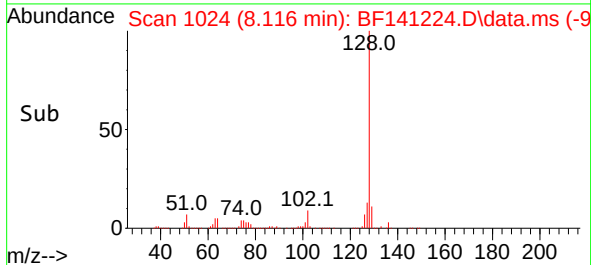
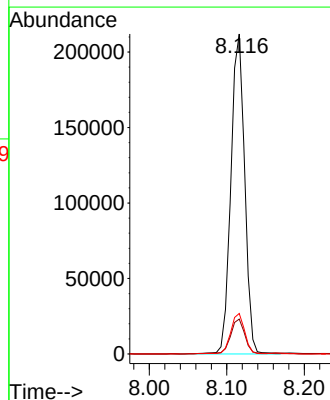
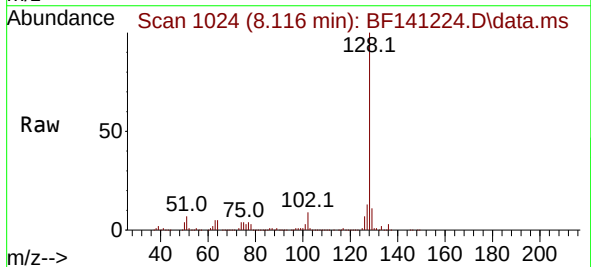
Instrument :
BNA_F
ClientSampleId :
HD-2-011725

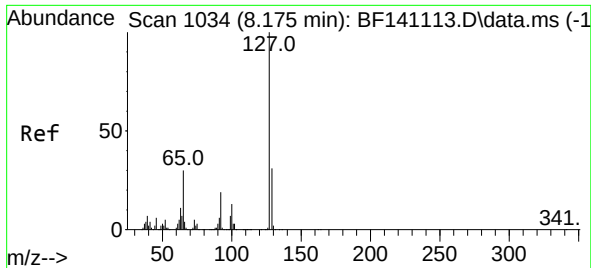
Tgt Ion: 82 Resp: 131477
Ion Ratio Lower Upper
82 100
95 0.0 5.9 8.9#
138 0.0 14.2 21.2#



#31
Naphthalene
Concen: 8.531 ng
RT: 8.116 min Scan# 1024
Delta R.T. -0.012 min
Lab File: BF141224.D
Acq: 20 Jan 2025 15:58

Tgt Ion: 128 Resp: 263052
Ion Ratio Lower Upper
128 100
129 10.9 9.0 13.6
127 12.6 10.8 16.2

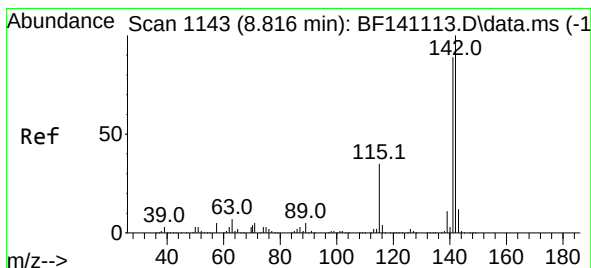
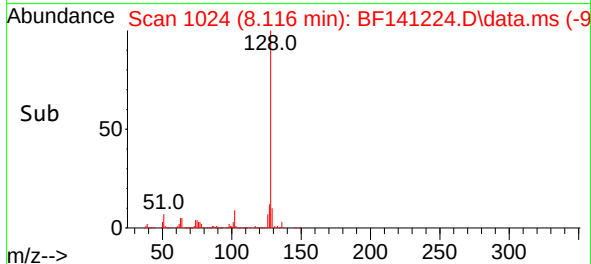
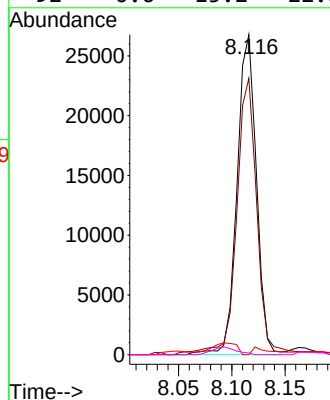
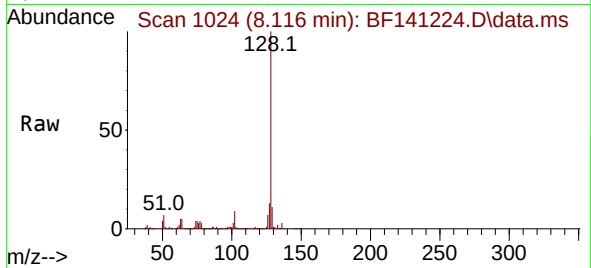




#33
4-Chloroaniline
Concen: 3.175 ng
RT: 8.116 min Scan# 1024
Delta R.T. -0.059 min
Lab File: BF141224.D
Acq: 20 Jan 2025 15:58

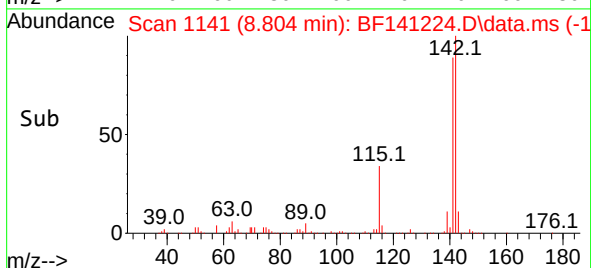
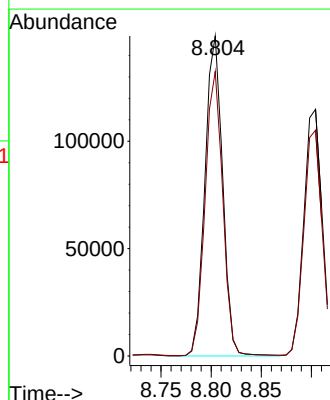
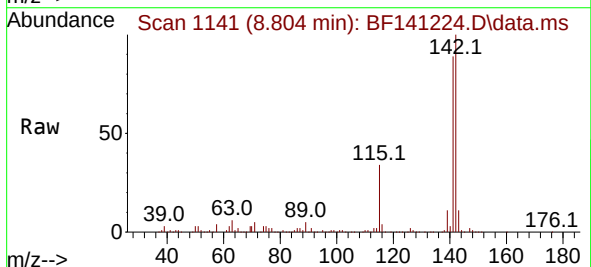
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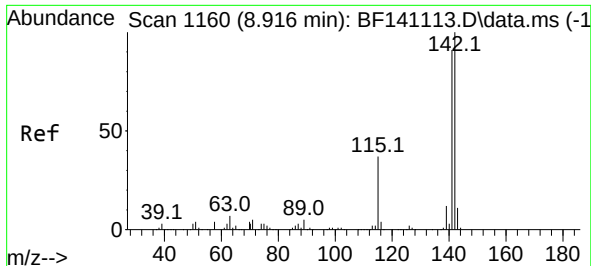
Tgt Ion:127 Resp: 33859
Ion Ratio Lower Upper
127 100
129 86.4 25.9 38.9#
65 0.0 23.8 35.8#
92 0.6 15.2 22.8#



#37
2-Methylnaphthalene
Concen: 9.331 ng
RT: 8.804 min Scan# 1141
Delta R.T. -0.012 min
Lab File: BF141224.D
Acq: 20 Jan 2025 15:58

Tgt Ion:142 Resp: 183344
Ion Ratio Lower Upper
142 100
141 88.9 71.3 106.9





#38

1-Methylnaphthalene

Concen: 7.470 ng

RT: 8.904 min Scan# 1158

Delta R.T. -0.012 min

Lab File: BF141224.D

Acq: 20 Jan 2025 15:58

Instrument :

BNA_F

ClientSampleId :

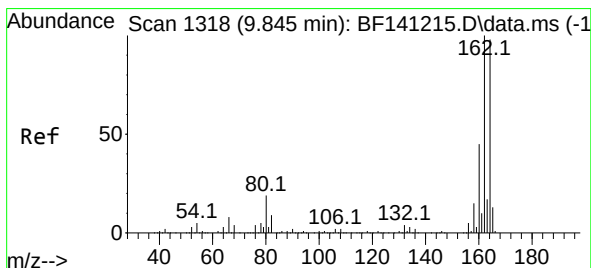
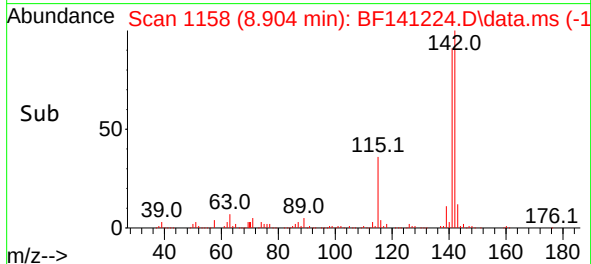
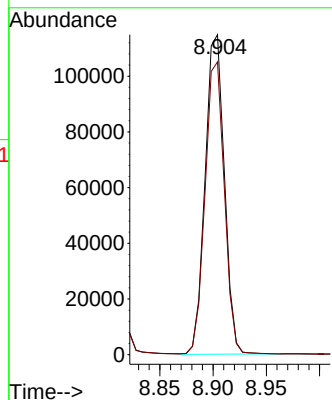
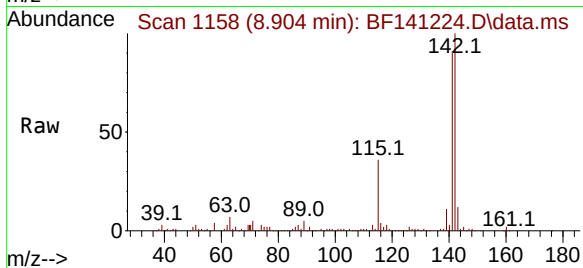
HD-2-011725

Tgt Ion:142 Resp: 144663

Ion Ratio Lower Upper

142 100

141 91.5 73.1 109.7



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.845 min Scan# 1318

Delta R.T. -0.018 min

Lab File: BF141224.D

Acq: 20 Jan 2025 15:58

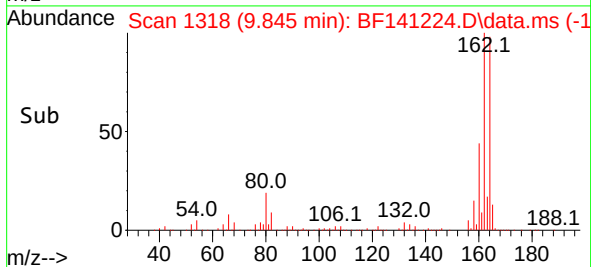
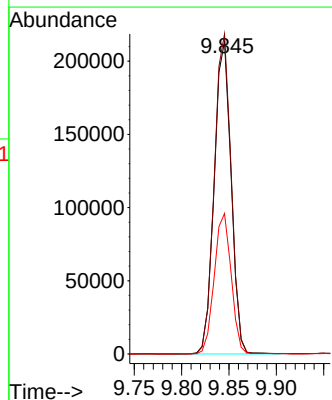
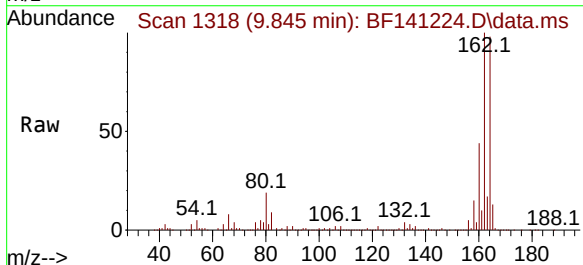
Tgt Ion:164 Resp: 264991

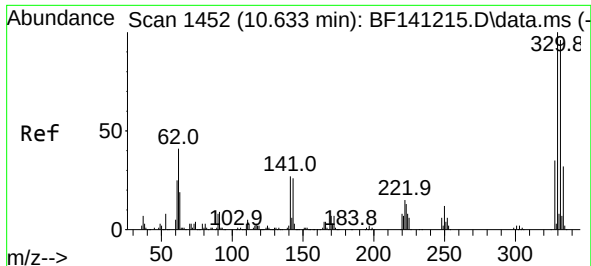
Ion Ratio Lower Upper

164 100

162 102.4 81.0 121.4

160 45.0 36.1 54.1





#42

2,4,6-Tribromophenol

Concen: 14.943 ng

RT: 10.628 min Scan# 1451

Delta R.T. -0.024 min

Lab File: BF141224.D

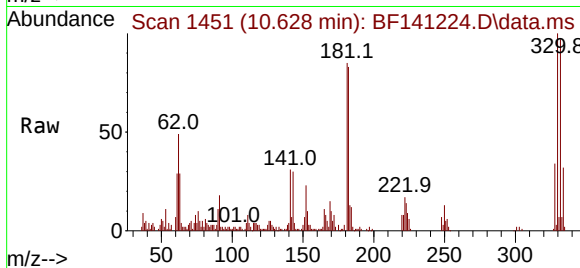
Acq: 20 Jan 2025 15:58

Instrument :

BNA_F

ClientSampleId :

HD-2-011725



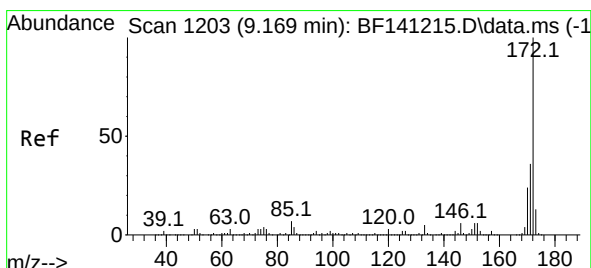
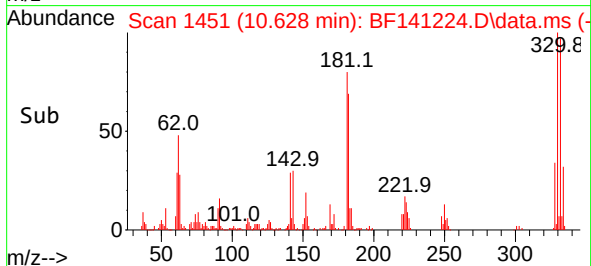
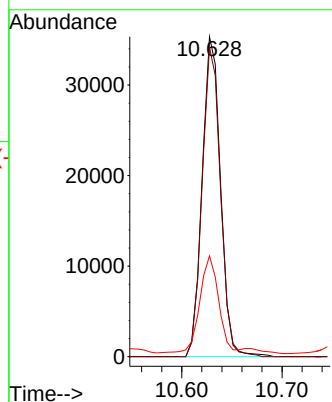
Tgt Ion:330 Resp: 45120

Ion Ratio Lower Upper

330 100

332 96.7 76.9 115.3

141 30.9 25.2 37.8



#45

2-Fluorobiphenyl

Concen: 14.566 ng

RT: 9.163 min Scan# 1202

Delta R.T. -0.018 min

Lab File: BF141224.D

Acq: 20 Jan 2025 15:58

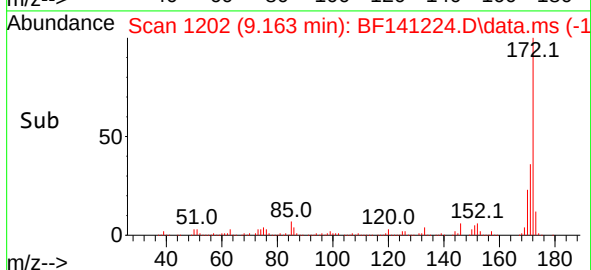
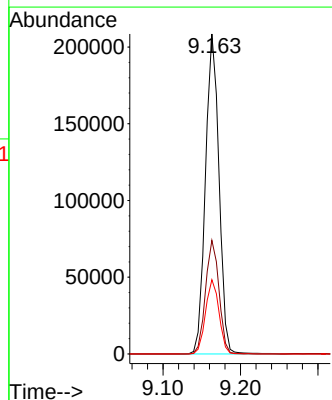
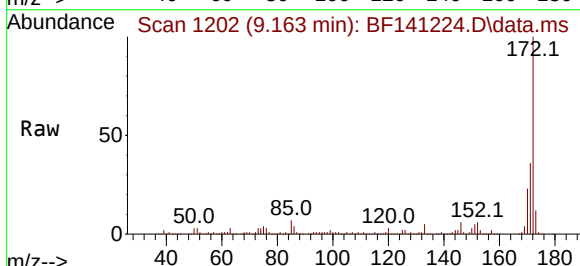
Tgt Ion:172 Resp: 252769

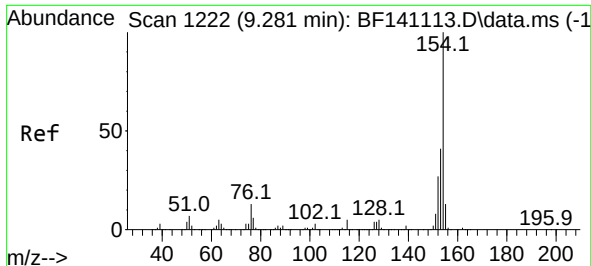
Ion Ratio Lower Upper

172 100

171 35.5 28.7 43.1

170 23.2 19.0 28.6





#46

1,1'-Biphenyl

Concen: 2.122 ng

RT: 9.263 min Scan# 11

Delta R.T. -0.018 min

Lab File: BF141224.D

Acq: 20 Jan 2025 15:58

Instrument :

BNA_F

ClientSampleId :

HD-2-011725

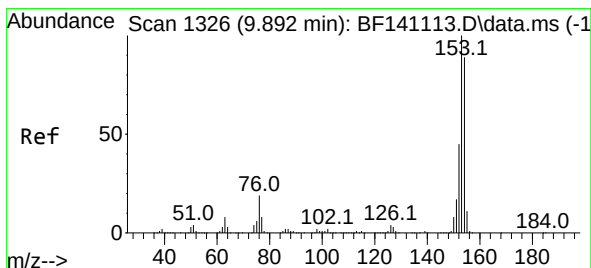
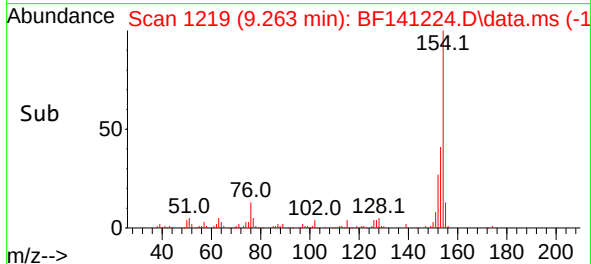
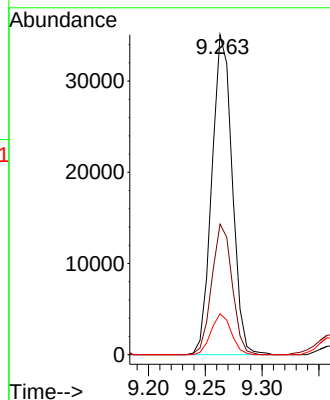
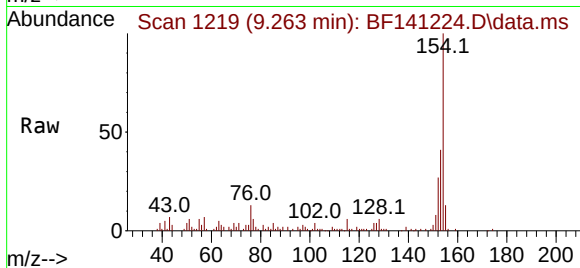
Tgt Ion:154 Resp: 43662

Ion Ratio Lower Upper

154 100

153 40.8 20.7 60.7

76 12.8 0.0 33.1



#52

Acenaphthene

Concen: 7.530 ng

RT: 9.875 min Scan# 1323

Delta R.T. -0.018 min

Lab File: BF141224.D

Acq: 20 Jan 2025 15:58

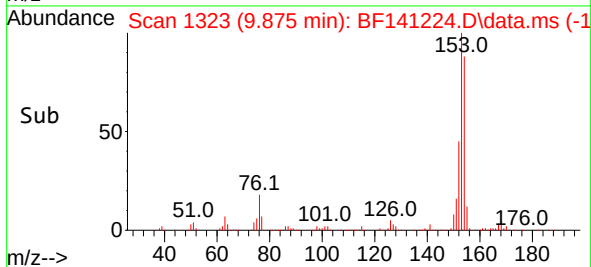
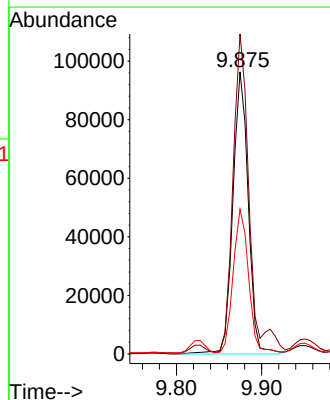
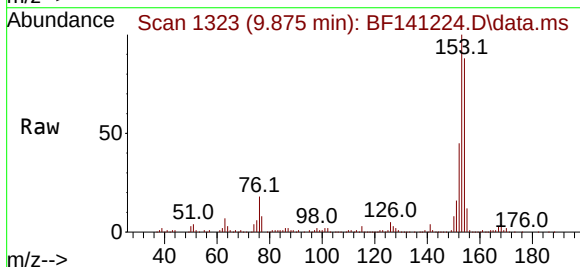
Tgt Ion:154 Resp: 120479

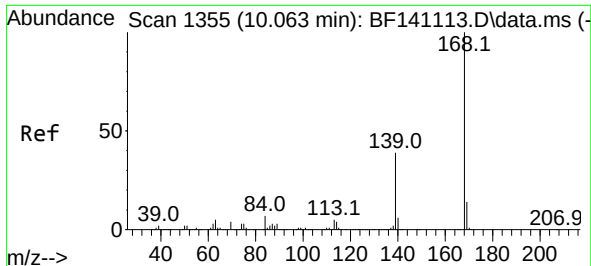
Ion Ratio Lower Upper

154 100

153 113.5 89.8 134.6

152 51.3 40.8 61.2

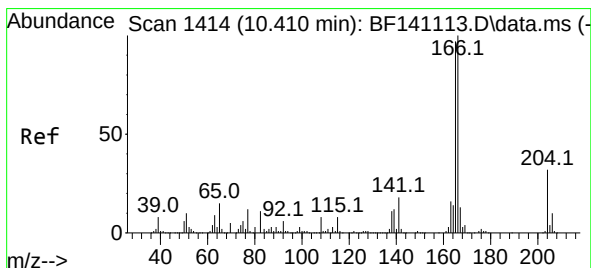
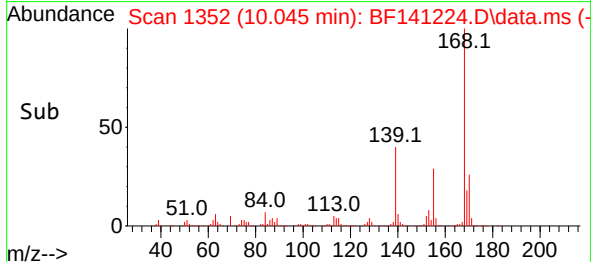
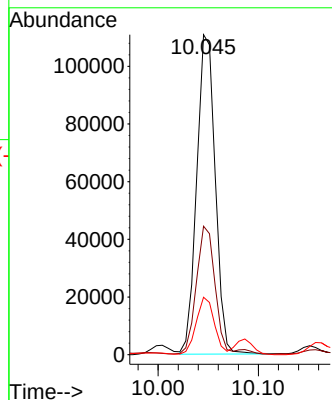
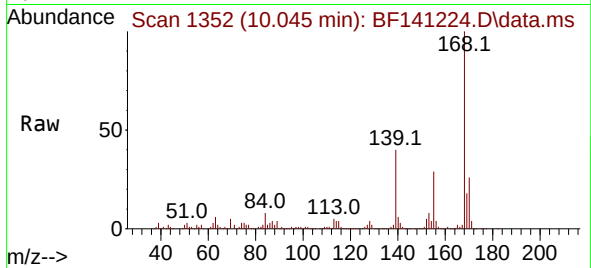




#55
Dibenzenofuran
Concen: 6.550 ng
RT: 10.045 min Scan# 11
Delta R.T. -0.018 min
Lab File: BF141224.D
Acq: 20 Jan 2025 15:58

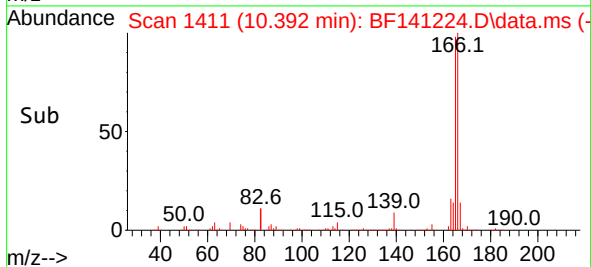
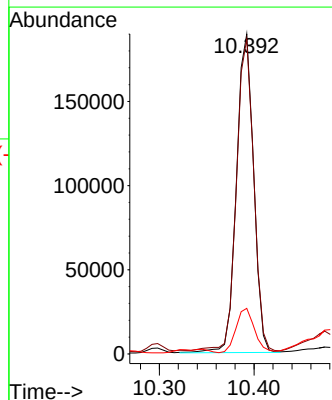
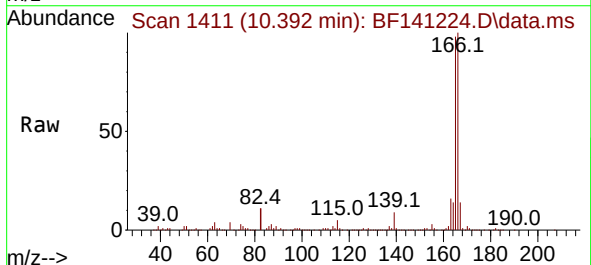
Instrument :
BNA_F
ClientSampleId :
HD-2-011725

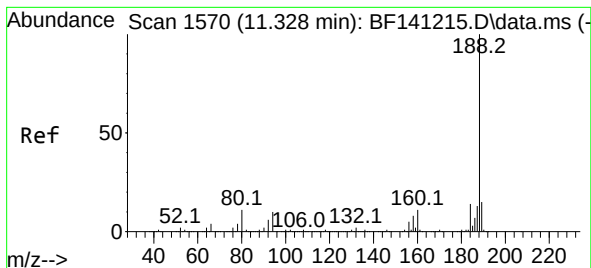
Tgt Ion:168 Resp: 142547
Ion Ratio Lower Upper
168 100
139 40.2 31.4 47.0
169 18.0 10.9 16.3#



#58
Fluorene
Concen: 14.063 ng
RT: 10.392 min Scan# 1411
Delta R.T. -0.018 min
Lab File: BF141224.D
Acq: 20 Jan 2025 15:58

Tgt Ion:166 Resp: 237761
Ion Ratio Lower Upper
166 100
165 98.5 77.8 116.8
167 14.2 10.8 16.2





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.327 min Scan# 1

Delta R.T. -0.018 min

Lab File: BF141224.D

Acq: 20 Jan 2025 15:58

Instrument :

BNA_F

ClientSampleId :

HD-2-011725

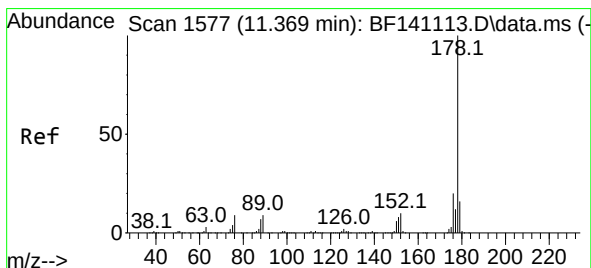
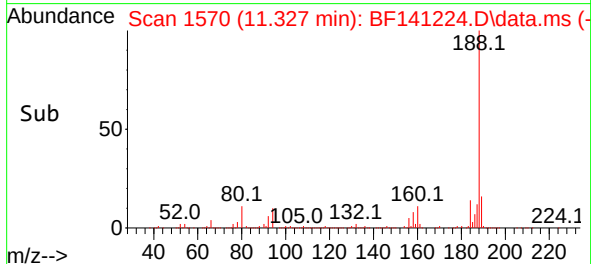
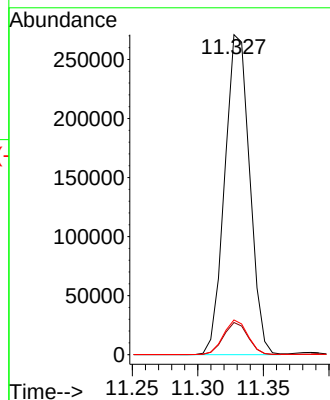
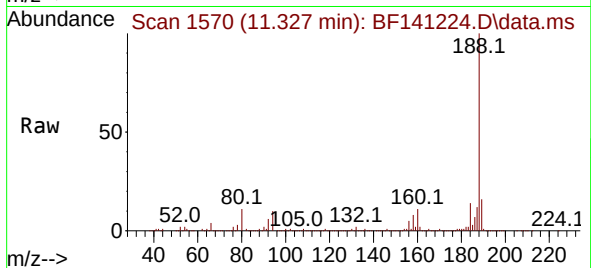
Tgt Ion:188 Resp: 358268

Ion Ratio Lower Upper

188 100

94 10.0 8.3 12.5

80 10.8 9.0 13.4



#71

Phenanthrene

Concen: 69.299 ng

RT: 11.357 min Scan# 1575

Delta R.T. -0.012 min

Lab File: BF141224.D

Acq: 20 Jan 2025 15:58

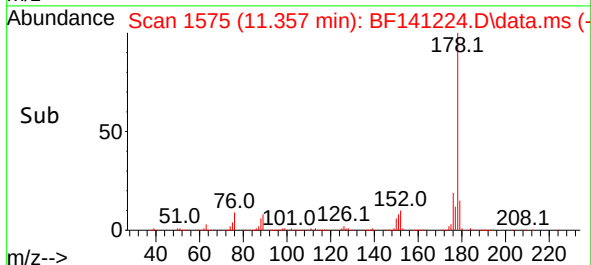
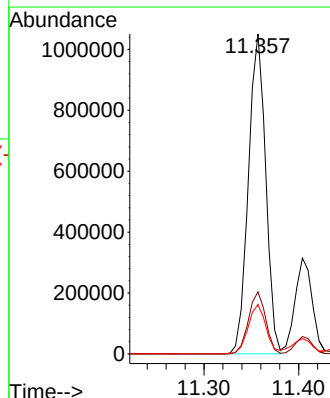
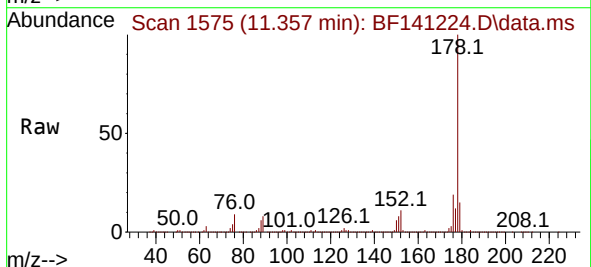
Tgt Ion:178 Resp: 1332913

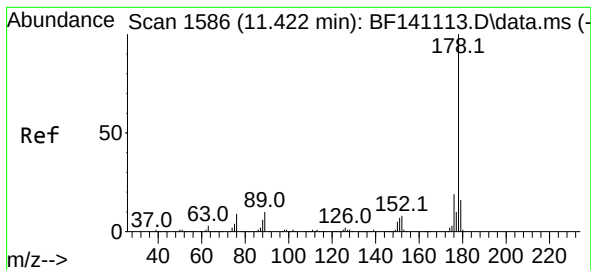
Ion Ratio Lower Upper

178 100

176 19.4 15.7 23.5

179 15.5 12.6 19.0

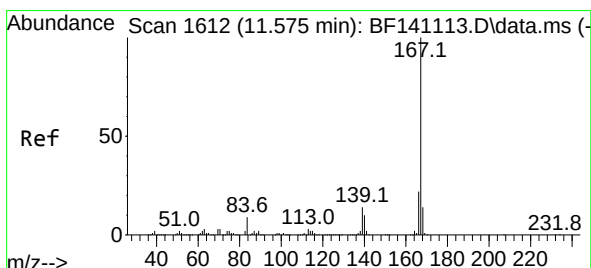
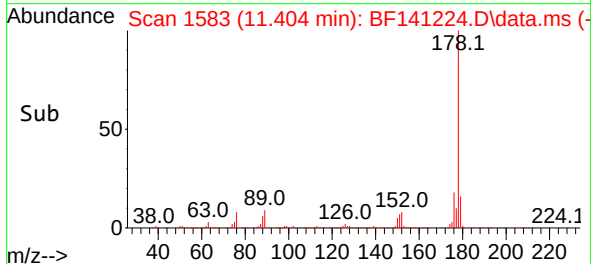
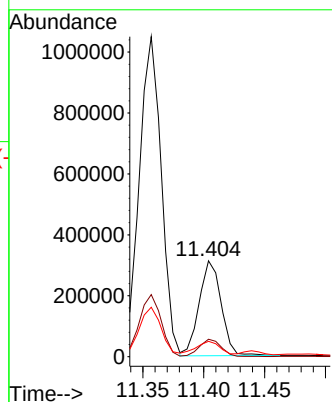
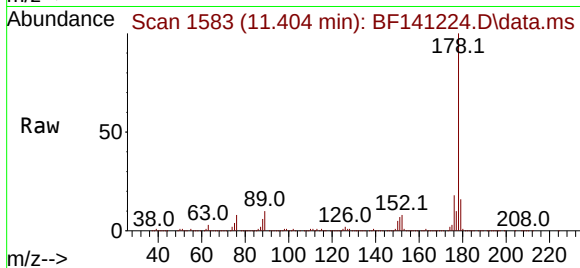




#72
Anthracene
Concen: 21.025 ng
RT: 11.404 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141224.D
Acq: 20 Jan 2025 15:58

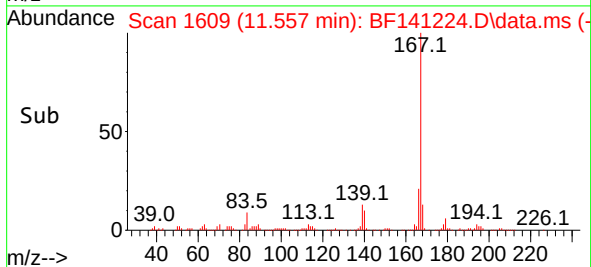
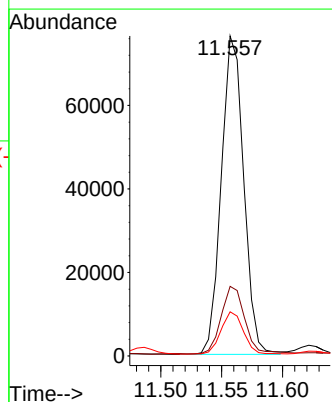
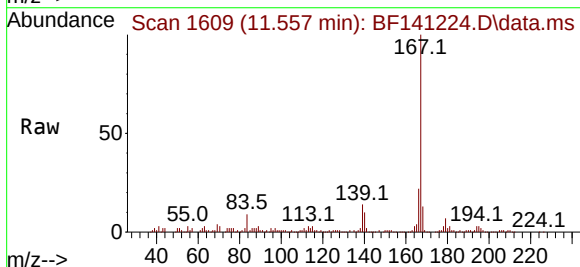
Instrument :
BNA_F
ClientSampleId :
HD-2-011725

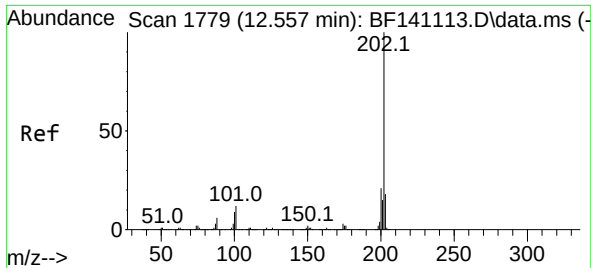
Tgt Ion:178 Resp: 393222
Ion Ratio Lower Upper
178 100
176 18.3 14.9 22.3
179 16.1 12.6 19.0



#73
Carbazole
Concen: 5.693 ng
RT: 11.557 min Scan# 1609
Delta R.T. -0.018 min
Lab File: BF141224.D
Acq: 20 Jan 2025 15:58

Tgt Ion:167 Resp: 97621
Ion Ratio Lower Upper
167 100
166 21.8 17.4 26.2
139 13.8 10.9 16.3

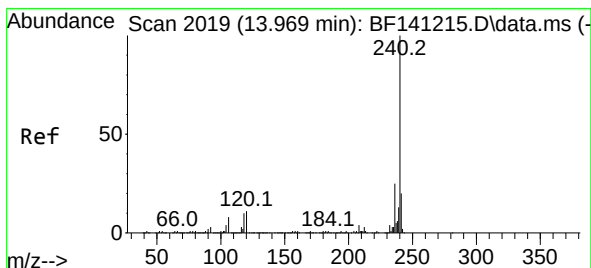
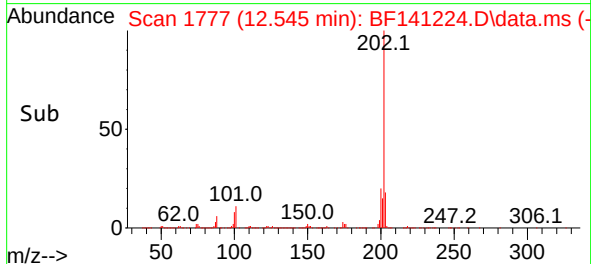
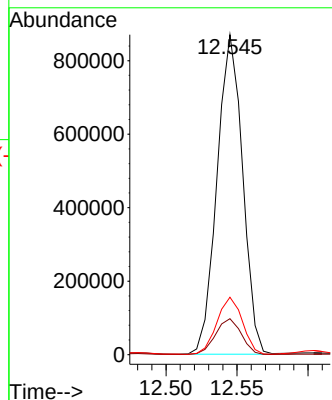
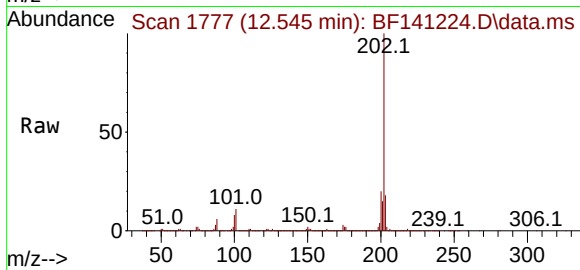




#75
Fluoranthene
Concen: 56.739 ng
RT: 12.545 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141224.D
Acq: 20 Jan 2025 15:58

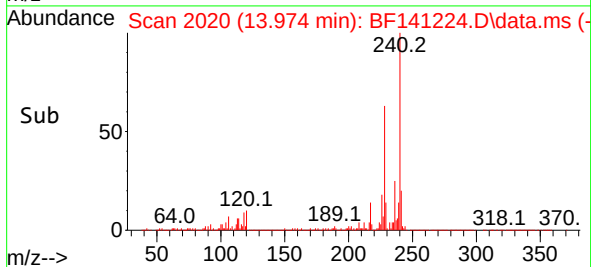
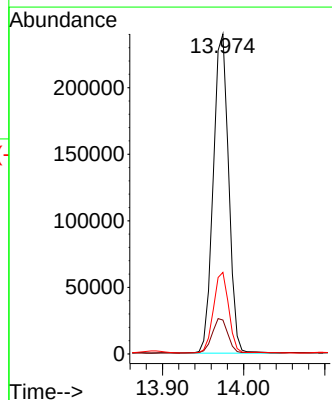
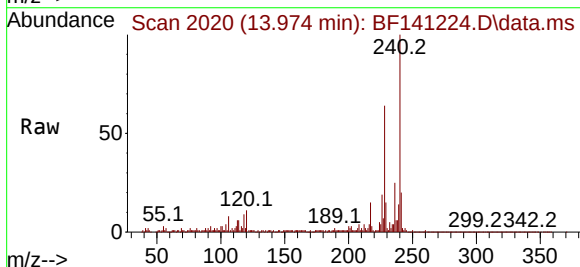
Instrument :
BNA_F
ClientSampleId :
HD-2-011725

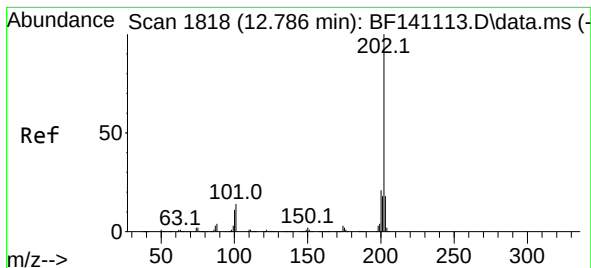
Tgt Ion:202 Resp: 1089046
Ion Ratio Lower Upper
202 100
101 11.3 0.0 32.3
203 18.0 0.0 37.7



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.974 min Scan# 2020
Delta R.T. -0.012 min
Lab File: BF141224.D
Acq: 20 Jan 2025 15:58

Tgt Ion:240 Resp: 315369
Ion Ratio Lower Upper
240 100
120 10.6 9.1 13.7
236 25.5 19.8 29.6





#78

Pyrene

Concen: 33.252 ng

RT: 12.774 min Scan# 1816

Delta R.T. -0.012 min

Lab File: BF141224.D

Acq: 20 Jan 2025 15:58

Instrument :

BNA_F

ClientSampleId :

HD-2-011725

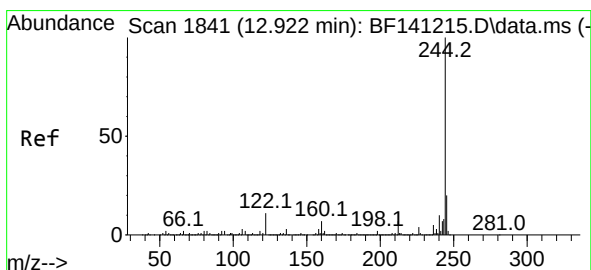
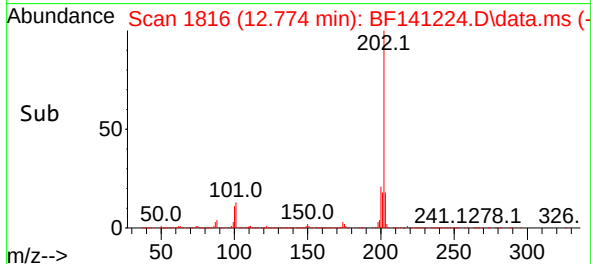
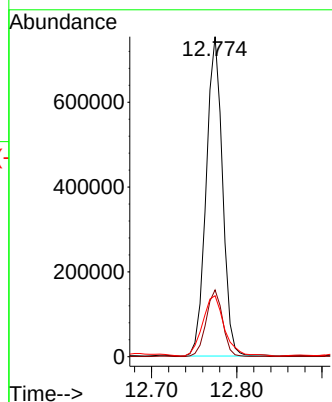
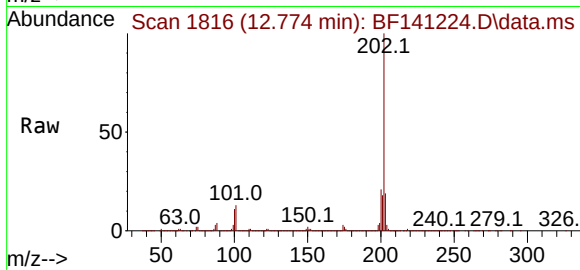
Tgt Ion:202 Resp: 1001611

Ion Ratio Lower Upper

202 100

200 20.9 16.8 25.2

203 19.0 14.3 21.5



#79

Terphenyl-d14

Concen: 9.733 ng

RT: 12.916 min Scan# 1840

Delta R.T. -0.018 min

Lab File: BF141224.D

Acq: 20 Jan 2025 15:58

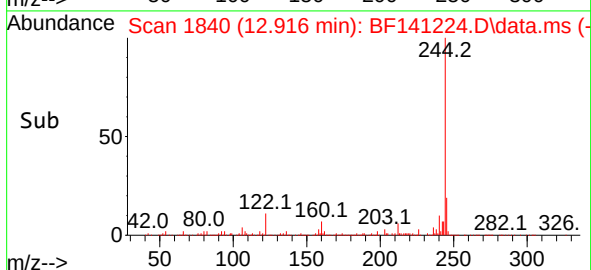
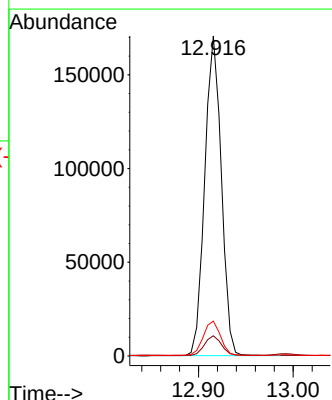
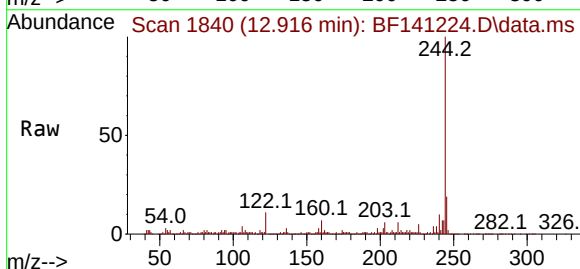
Tgt Ion:244 Resp: 206524

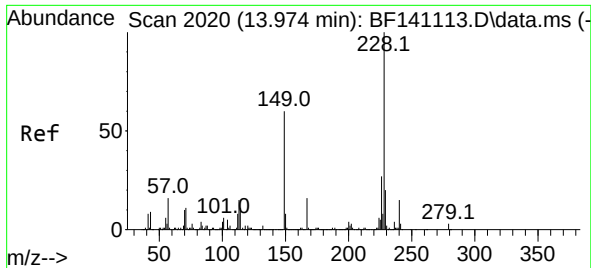
Ion Ratio Lower Upper

244 100

212 6.3 5.4 8.2

122 10.9 8.8 13.2

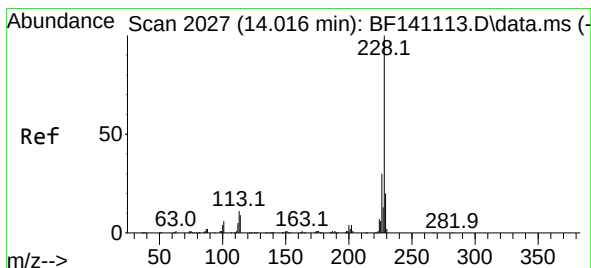
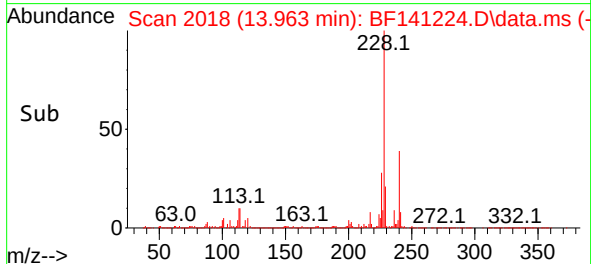
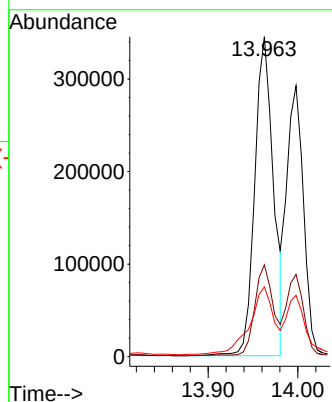
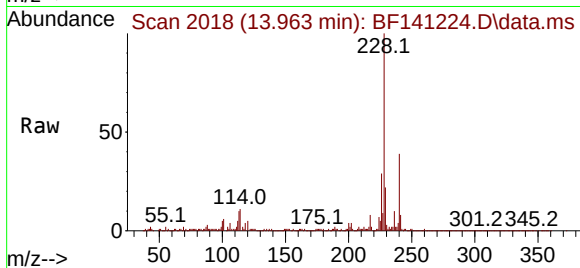




#81
Benzo(a)anthracene
Concen: 23.297 ng
RT: 13.963 min Scan# 20
Delta R.T. -0.012 min
Lab File: BF141224.D
Acq: 20 Jan 2025 15:58

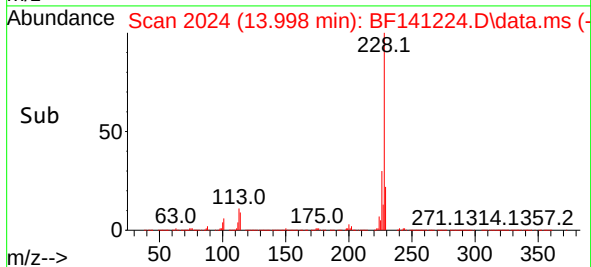
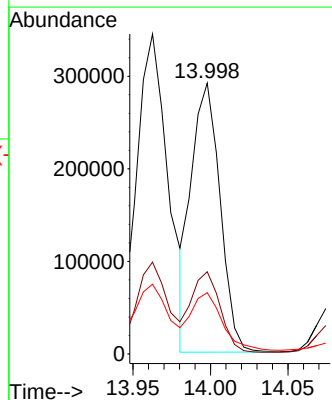
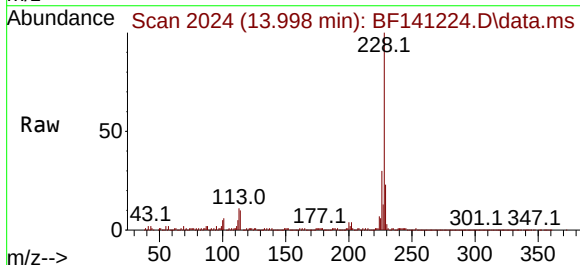
Instrument :
BNA_F
ClientSampleId :
HD-2-011725

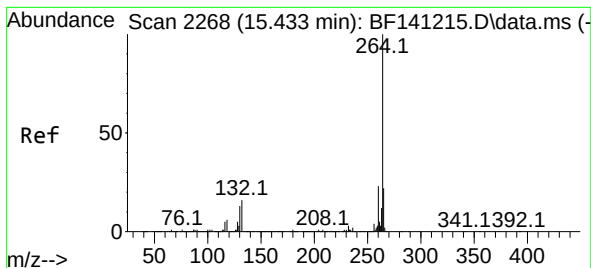
Tgt Ion:228 Resp: 500021
Ion Ratio Lower Upper
228 100
226 28.7 21.7 32.5
229 21.8 15.7 23.5



#83
Chrysene
Concen: 18.680 ng
RT: 13.998 min Scan# 2024
Delta R.T. -0.018 min
Lab File: BF141224.D
Acq: 20 Jan 2025 15:58

Tgt Ion:228 Resp: 375149
Ion Ratio Lower Upper
228 100
226 30.3 23.8 35.8
229 22.6 15.8 23.8





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.433 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF141224.D

Acq: 20 Jan 2025 15:58

Instrument :

BNA_F

ClientSampleId :

HD-2-011725

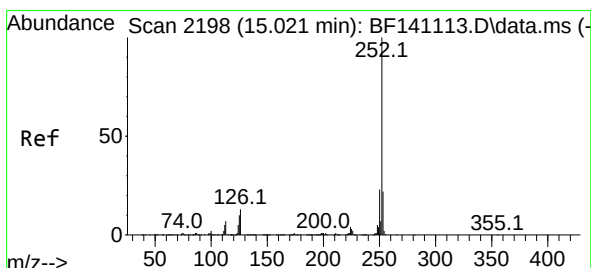
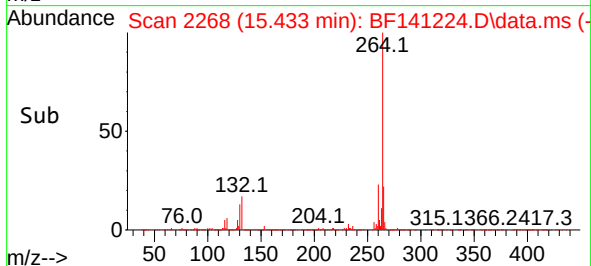
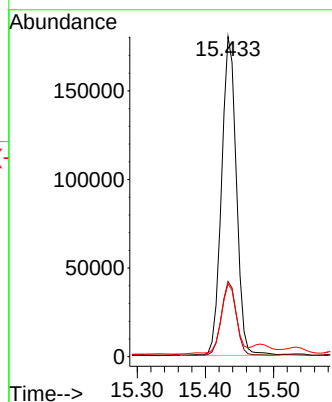
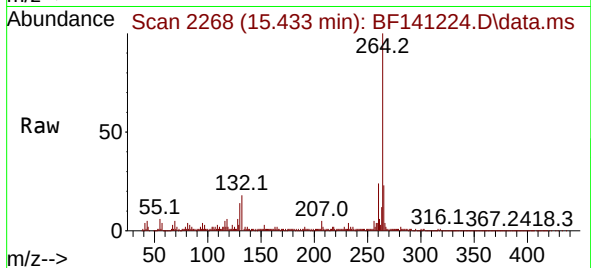
Tgt Ion:264 Resp: 272616

Ion Ratio Lower Upper

264 100

260 23.5 18.6 28.0

265 22.7 17.4 26.0



#88

Benzo(b)fluoranthene

Concen: 29.846 ng

RT: 15.015 min Scan# 2197

Delta R.T. -0.006 min

Lab File: BF141224.D

Acq: 20 Jan 2025 15:58

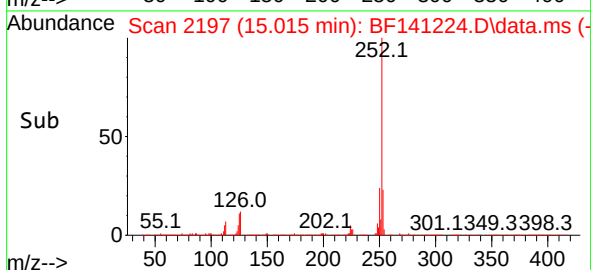
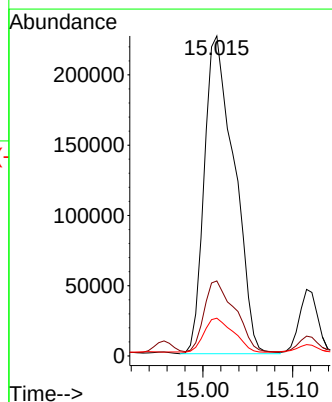
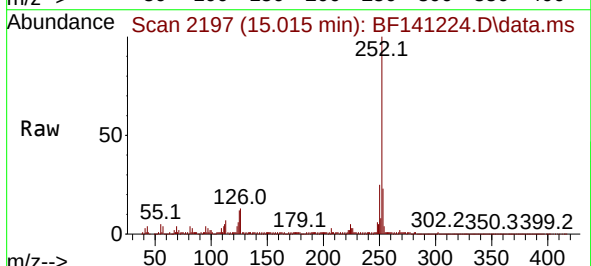
Tgt Ion:252 Resp: 524663

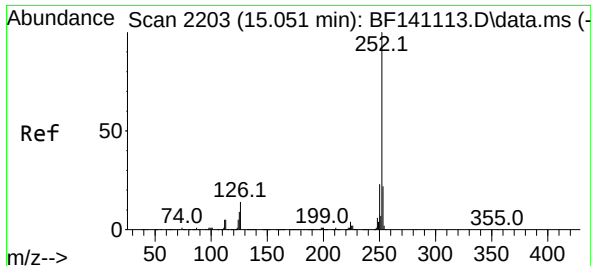
Ion Ratio Lower Upper

252 100

253 23.5 17.8 26.6

125 11.8 8.1 12.1

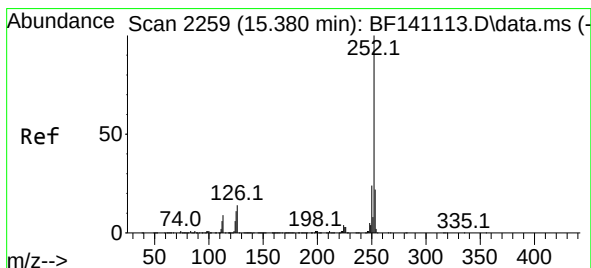
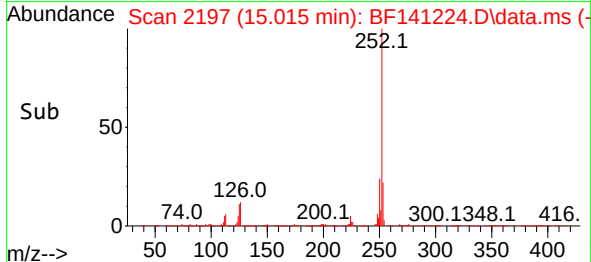
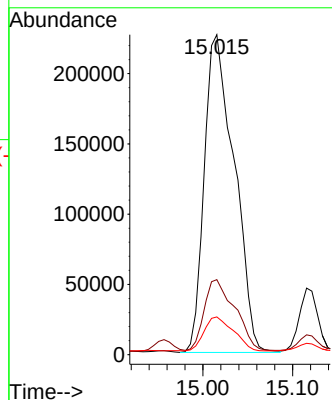
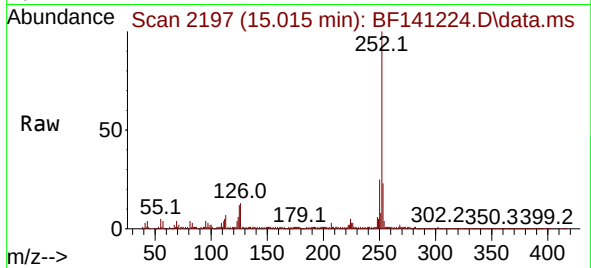




#89
Benzo(k)fluoranthene
Concen: 35.317 ng
RT: 15.015 min Scan# 21
Delta R.T. -0.035 min
Lab File: BF141224.D
Acq: 20 Jan 2025 15:58

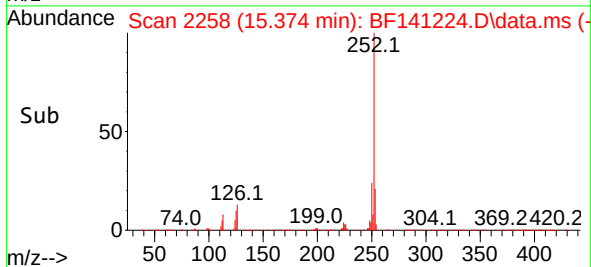
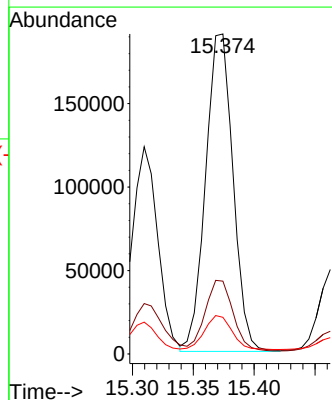
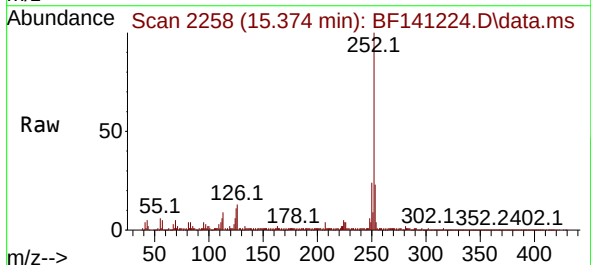
Instrument :
BNA_F
ClientSampleId :
HD-2-011725

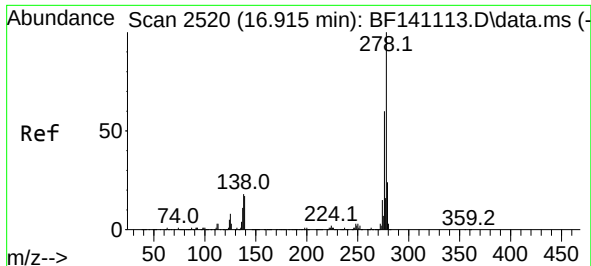
Tgt Ion:252 Resp: 524663
Ion Ratio Lower Upper
252 100
253 23.5 17.8 26.8
125 11.8 7.9 11.9



#90
Benzo(a)pyrene
Concen: 20.582 ng
RT: 15.374 min Scan# 2258
Delta R.T. -0.006 min
Lab File: BF141224.D
Acq: 20 Jan 2025 15:58

Tgt Ion:252 Resp: 298518
Ion Ratio Lower Upper
252 100
253 22.8 17.7 26.5
125 11.4 9.1 13.7

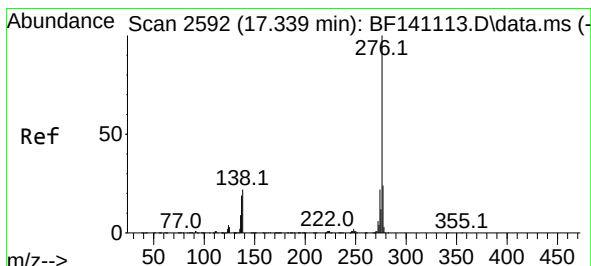
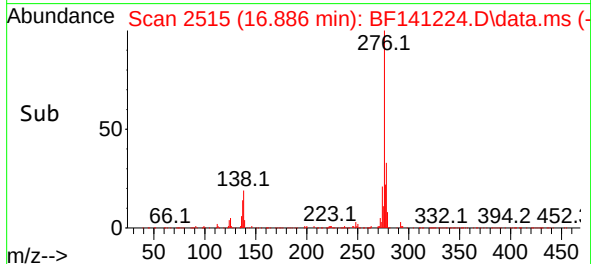
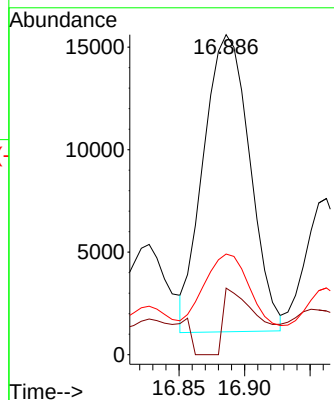
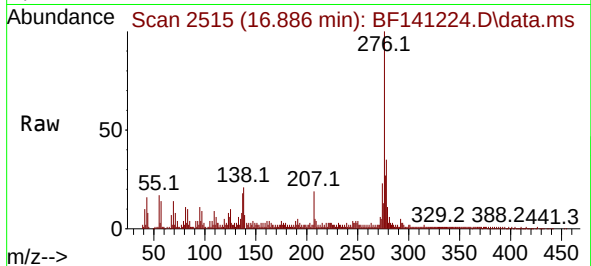




#91
Dibenzo(a,h)anthracene
Concen: 2.210 ng
RT: 16.886 min Scan# 21
Delta R.T. -0.029 min
Lab File: BF141224.D
Acq: 20 Jan 2025 15:58

Instrument :
BNA_F
ClientSampleId :
HD-2-011725

Tgt Ion:278 Resp: 35697
Ion Ratio Lower Upper
278 100
139 20.8 13.8 20.6#
279 31.5 19.1 28.7#



#92
Benzo(g,h,i)perylene
Concen: 7.529 ng
RT: 17.309 min Scan# 2587
Delta R.T. -0.029 min
Lab File: BF141224.D
Acq: 20 Jan 2025 15:58

Tgt Ion:276 Resp: 126507
Ion Ratio Lower Upper
276 100
277 25.4 19.0 28.4
138 21.8 17.4 26.2

