

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082323\
 Data File : BF134913.D
 Acq On : 23 Aug 2023 19:50
 Operator : CG\JU
 Sample : 04082-01 10X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 277

Quant Time: Aug 24 04:30:06 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082223.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 22 19:33:25 2023
 Response via : Initial Calibration

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

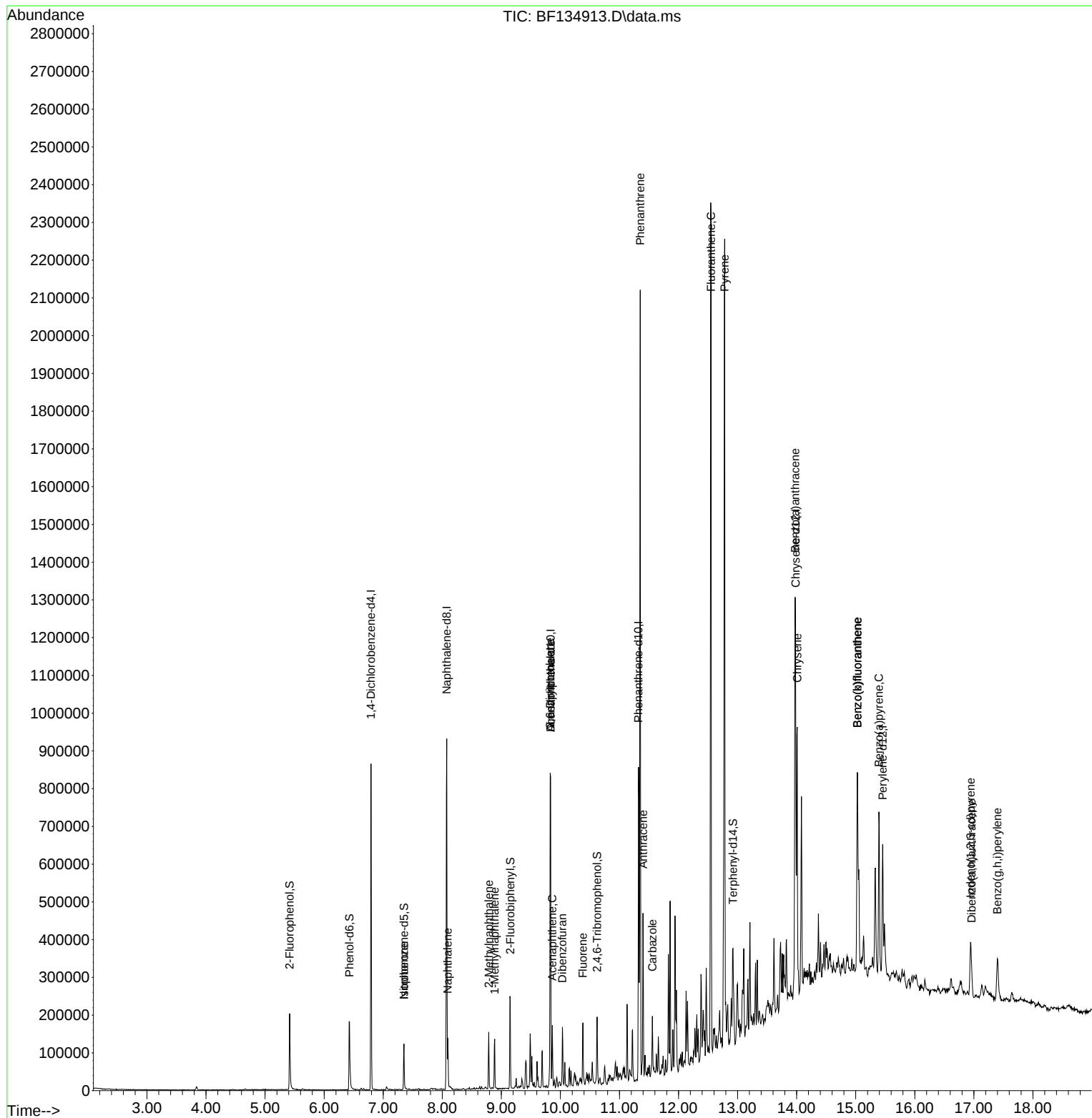
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.793	152	114380	20.000	ng	0.00
21) Naphthalene-d8	8.075	136	407348	20.000	ng	0.00
39) Acenaphthene-d10	9.834	164	174802	20.000	ng	0.00
64) Phenanthrene-d10	11.322	188	315885	20.000	ng	0.00
76) Chrysene-d12	13.980	240	195459	20.000	ng	0.00
86) Perylene-d12	15.457	264	164267	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.416	112	57550	8.023	ng	0.00
7) Phenol-d6	6.428	99	71570	7.809	ng	-0.01
23) Nitrobenzene-d5	7.351	82	36864	4.987	ng	-0.01
42) 2,4,6-Tribromophenol	10.622	330	12870	6.251	ng	0.00
45) 2-Fluorobiphenyl	9.151	172	78155	6.912	ng	0.00
79) Terphenyl-d14	12.922	244	79872	5.620	ng	0.00
Target Compounds						Qvalue
20) 3+4-Methylphenols	7.204	107	69	Below Cal	#	72
25) Isophorone	7.351	82	35540	2.575	ng	# 64
31) Naphthalene	8.092	128	42844	2.106	ng	99
37) 2-Methylnaphthalene	8.787	142	37141	2.738	ng	98
38) 1-Methylnaphthalene	8.887	142	34575	2.726	ng	98
50) Dimethylphthalate	9.834	163	36627	2.944	ng	# 1
51) 2,6-Dinitrotoluene	9.828	165	24012	8.750	ng	# 28
52) Acenaphthene	9.863	154	29240	2.924	ng	98
55) Dibenzofuran	10.034	168	40533	2.784	ng	# 92
58) Fluorene	10.381	166	39897	3.614	ng	99
71) Phenanthrene	11.351	178	736149	44.472	ng	99
72) Anthracene	11.398	178	150378	8.867	ng	99
73) Carbazole	11.557	167	56626	4.052	ng	99
75) Fluoranthene	12.551	202	982563	62.647	ng	98
78) Pyrene	12.780	202	923549	44.565	ng	100
81) Benzo(a)anthracene	13.974	228	338329	25.370	ng	97
83) Chrysene	14.010	228	300041	22.803	ng	99
87) Indeno(1,2,3-cd)pyrene	16.945	276	109349	9.313	ng	95
88) Benzo(b)fluoranthene	15.027	252	388851	41.957	ng	99
89) Benzo(k)fluoranthene	15.027	252	388851	42.727	ng	99
90) Benzo(a)pyrene	15.392	252	211928	22.906	ng	99
91) Dibenzo(a,h)anthracene	16.962	278	28761	3.027	ng	# 91
92) Benzo(g,h,i)perylene	17.398	276	105750	10.874	ng	98

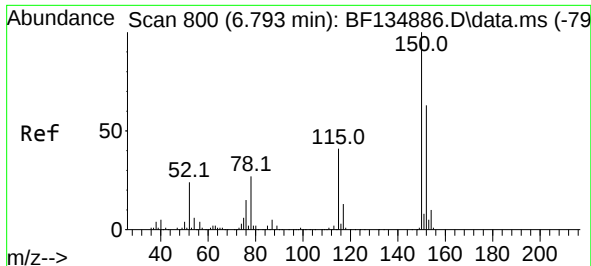
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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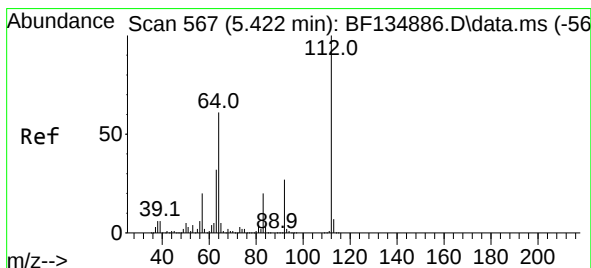
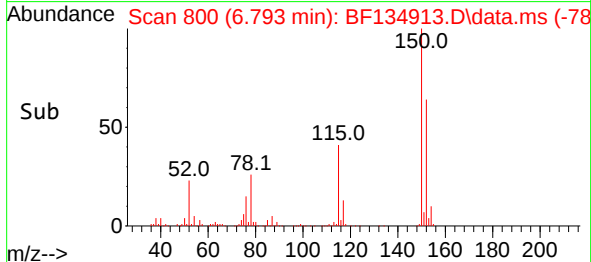
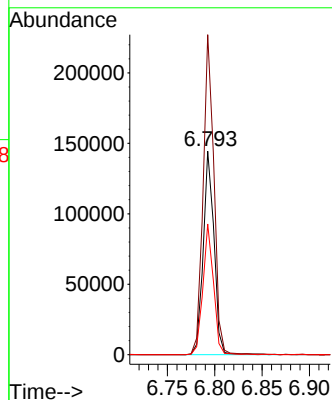
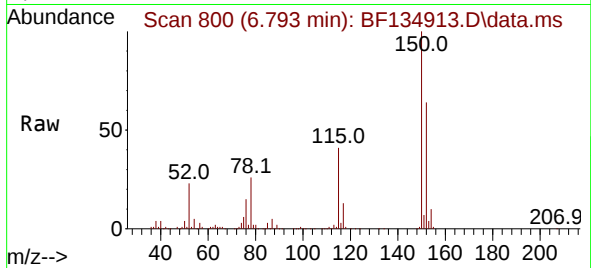




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.793 min Scan# 800
 Delta R.T. -0.000 min
 Lab File: BF134913.D
 Acq: 23 Aug 2023 19:50

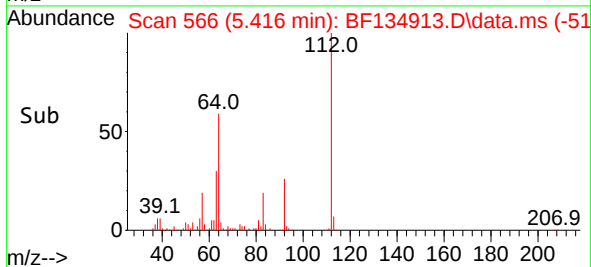
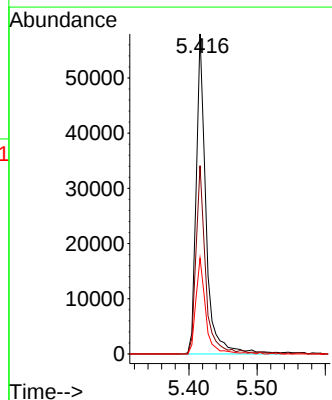
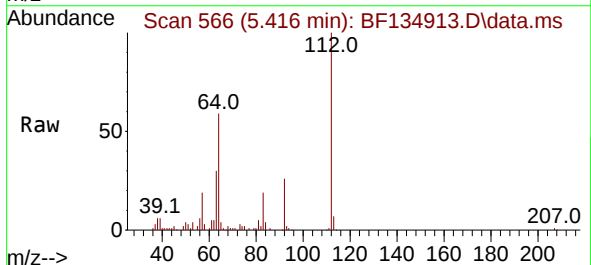
Instrument :
 BNA_F
 ClientSampleId :
 277

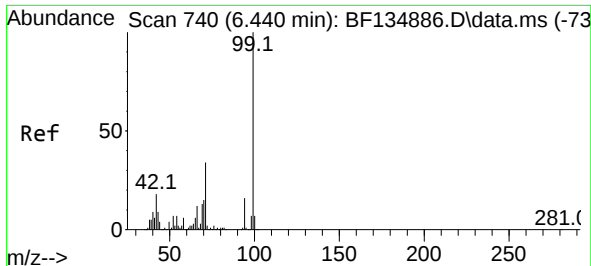
Tgt Ion:152 Resp: 114380
 Ion Ratio Lower Upper
 152 100
 150 157.2 126.1 189.1
 115 64.2 51.1 76.7



#5
 2-Fluorophenol
 Concen: 8.023 ng
 RT: 5.416 min Scan# 566
 Delta R.T. -0.006 min
 Lab File: BF134913.D
 Acq: 23 Aug 2023 19:50

Tgt Ion:112 Resp: 57550
 Ion Ratio Lower Upper
 112 100
 64 58.8 48.6 73.0
 63 29.9 25.7 38.5





#7
Phenol-d6
Concen: 7.809 ng
RT: 6.428 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF134913.D
Acq: 23 Aug 2023 19:50

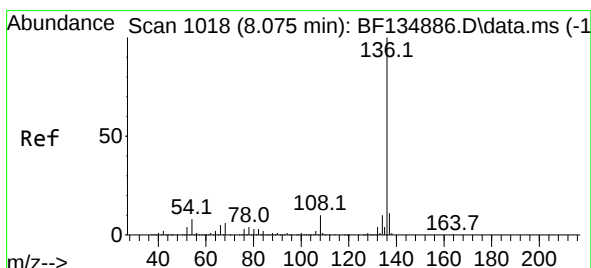
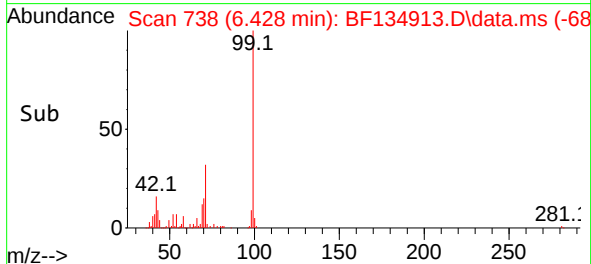
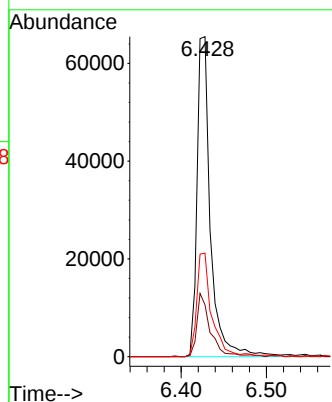
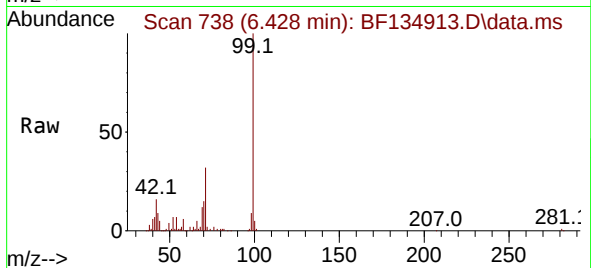
Instrument :

BNA_F

ClientSampleId :

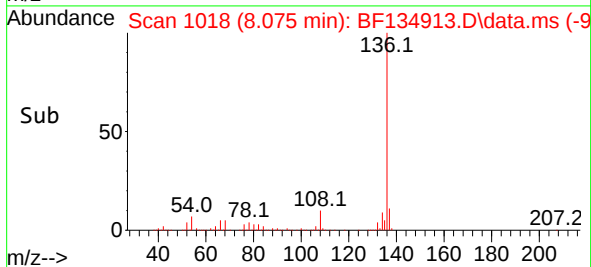
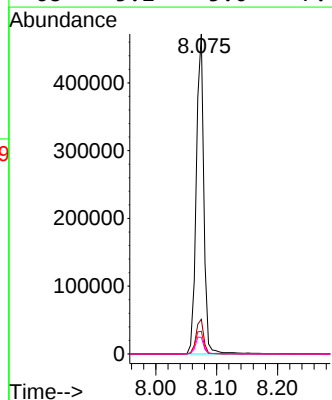
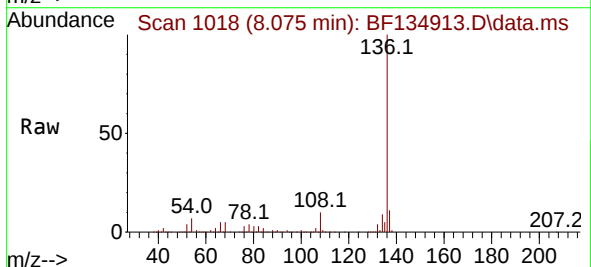
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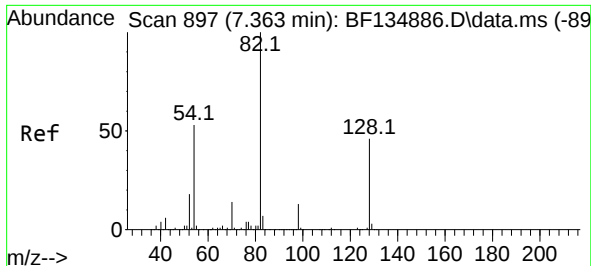
Tgt Ion: 99 Resp: 71570
Ion Ratio Lower Upper
99 100
42 16.2 14.6 22.0
71 32.3 27.6 41.4



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.075 min Scan# 1018
Delta R.T. 0.000 min
Lab File: BF134913.D
Acq: 23 Aug 2023 19:50

Tgt Ion: 136 Resp: 407348
Ion Ratio Lower Upper
136 100
137 10.8 8.9 13.3
54 7.1 6.6 9.8
68 5.2 5.0 7.4





#23

Nitrobenzene-d5

Concen: 4.987 ng

RT: 7.351 min Scan# 895

Delta R.T. -0.012 min

Lab File: BF134913.D

Acq: 23 Aug 2023 19:50

Instrument :

BNA_F

ClientSampleId :

277

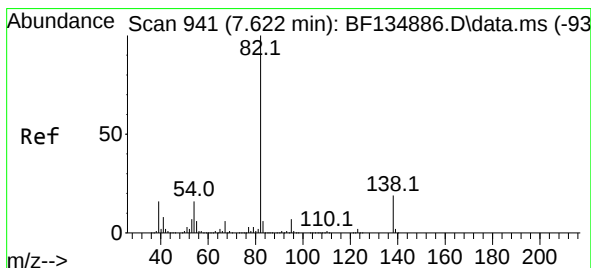
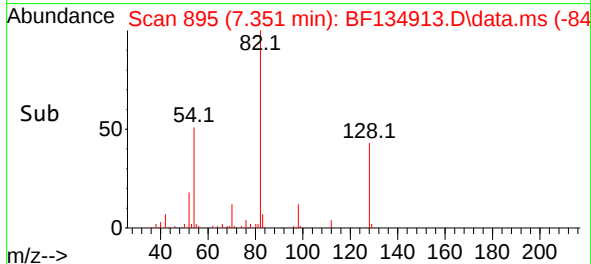
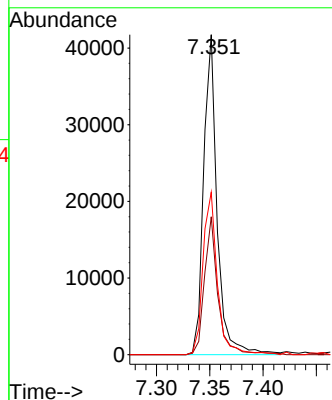
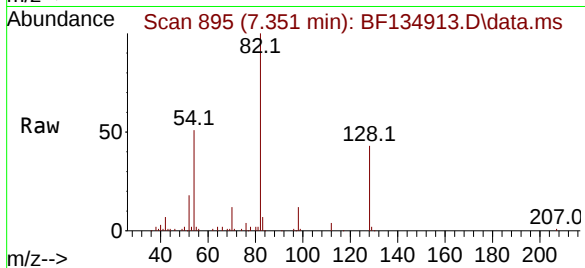
Tgt Ion: 82 Resp: 36864

Ion Ratio Lower Upper

82 100

128 43.1 36.6 54.8

54 50.8 42.6 63.8



#25

Isophorone

Concen: 2.575 ng

RT: 7.351 min Scan# 895

Delta R.T. -0.271 min

Lab File: BF134913.D

Acq: 23 Aug 2023 19:50

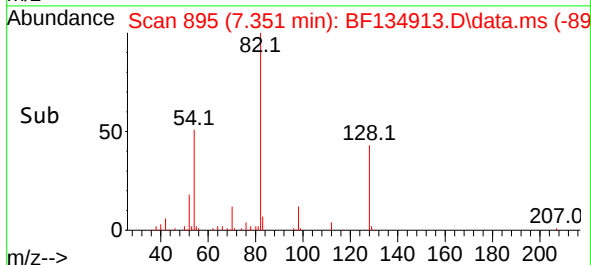
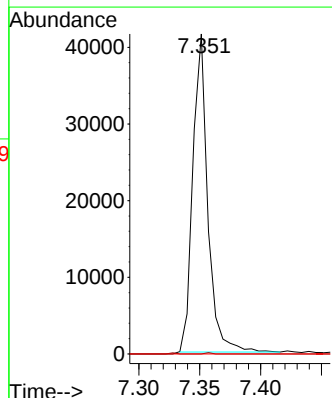
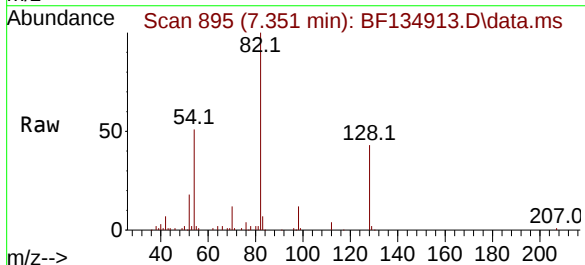
Tgt Ion: 82 Resp: 35540

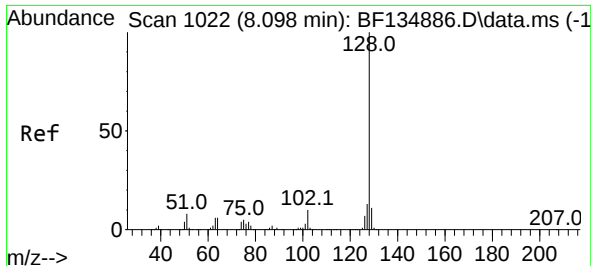
Ion Ratio Lower Upper

82 100

95 0.0 5.9 8.9#

138 0.0 14.9 22.3#

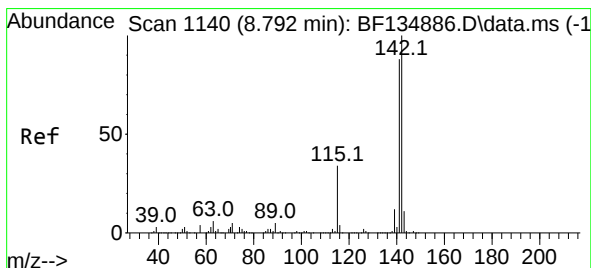
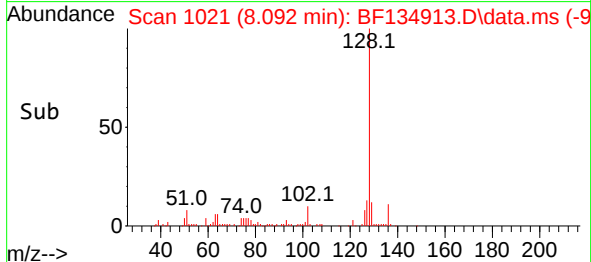
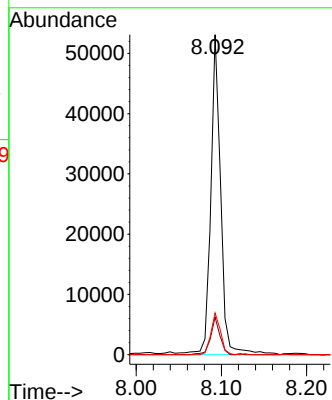
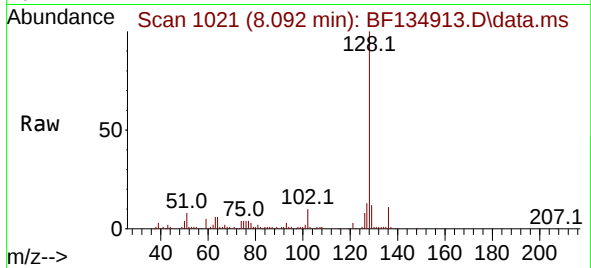




#31
Naphthalene
Concen: 2.106 ng
RT: 8.092 min Scan# 1139
Delta R.T. -0.006 min
Lab File: BF134913.D
Acq: 23 Aug 2023 19:50

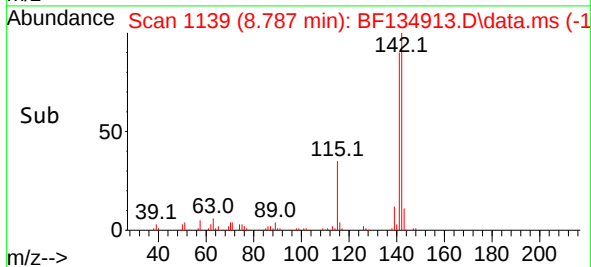
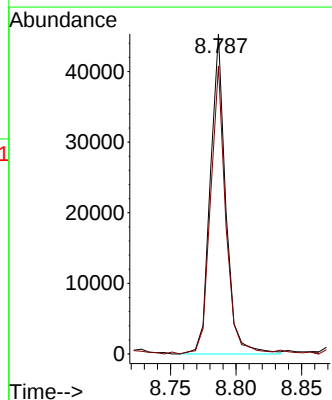
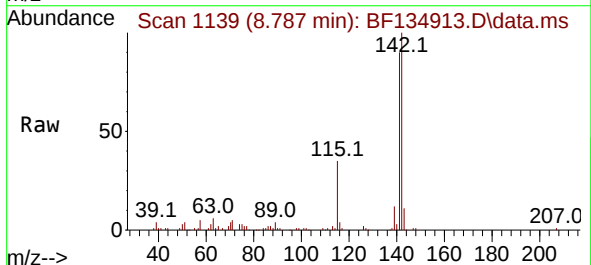
Instrument :
BNA_F
ClientSampleId :
277

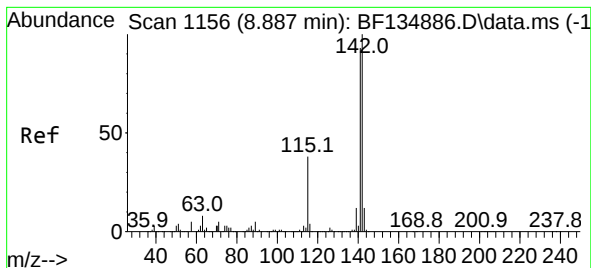
Tgt Ion:128 Resp: 42844
Ion Ratio Lower Upper
128 100
129 11.7 9.0 13.4
127 13.0 10.6 16.0



#37
2-Methylnaphthalene
Concen: 2.738 ng
RT: 8.787 min Scan# 1139
Delta R.T. -0.006 min
Lab File: BF134913.D
Acq: 23 Aug 2023 19:50

Tgt Ion:142 Resp: 37141
Ion Ratio Lower Upper
142 100
141 90.0 70.2 105.2





#38

1-Methylnaphthalene

Concen: 2.726 ng

RT: 8.887 min Scan# 1156

Delta R.T. 0.000 min

Lab File: BF134913.D

Acq: 23 Aug 2023 19:50

Instrument :

BNA_F

ClientSampleId :

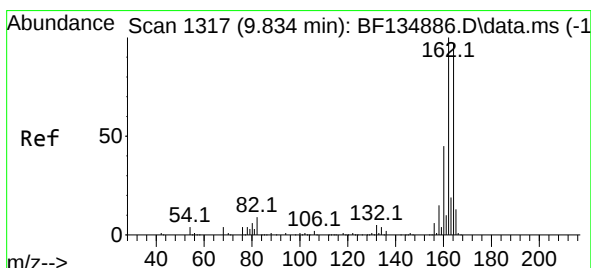
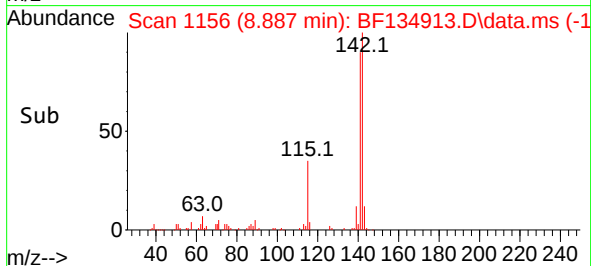
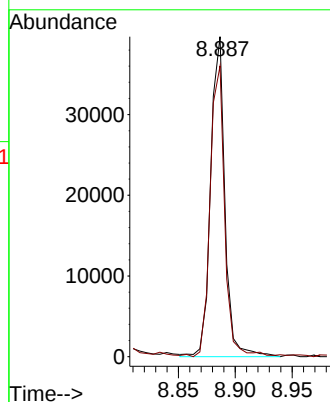
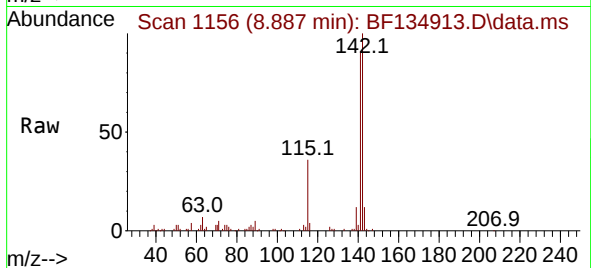
277

Tgt Ion:142 Resp: 34575

Ion Ratio Lower Upper

142 100

141 90.9 74.1 111.1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.834 min Scan# 1317

Delta R.T. 0.000 min

Lab File: BF134913.D

Acq: 23 Aug 2023 19:50

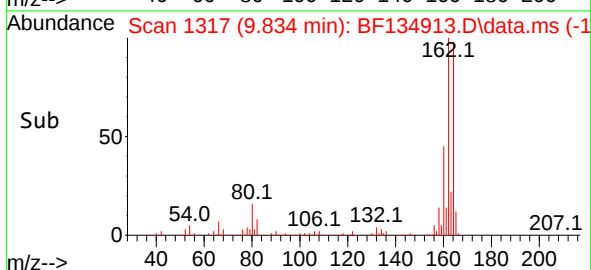
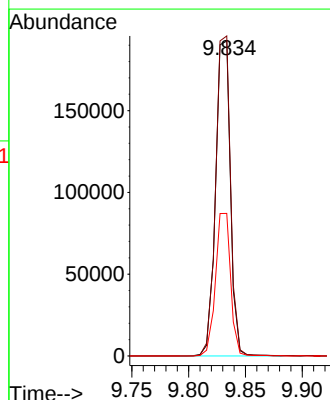
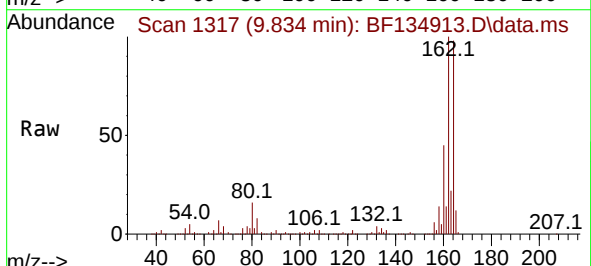
Tgt Ion:164 Resp: 174802

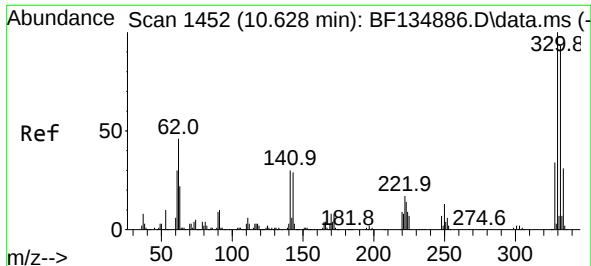
Ion Ratio Lower Upper

164 100

162 101.6 82.6 123.8

160 45.3 37.0 55.4





#42

2,4,6-Tribromophenol

Concen: 6.251 ng

RT: 10.622 min Scan# 1452

Delta R.T. -0.006 min

Lab File: BF134913.D

Acq: 23 Aug 2023 19:50

Instrument :

BNA_F

ClientSampleId :

277

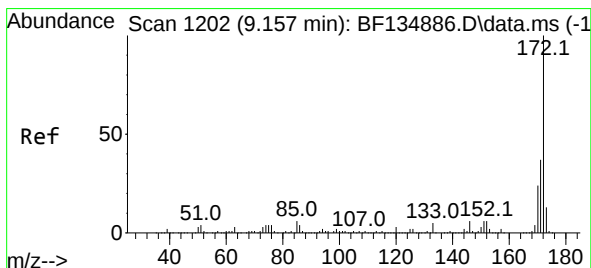
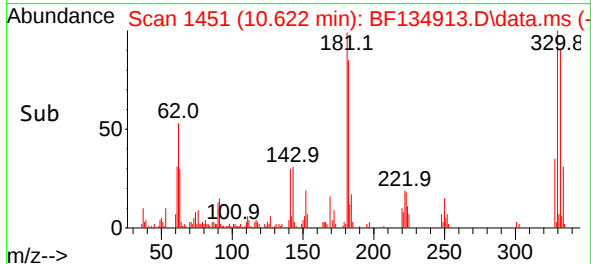
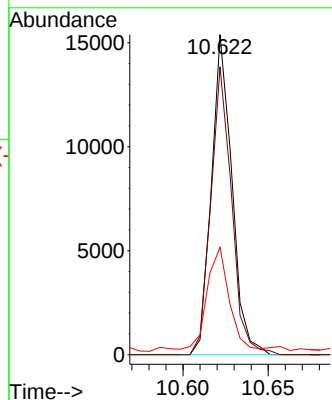
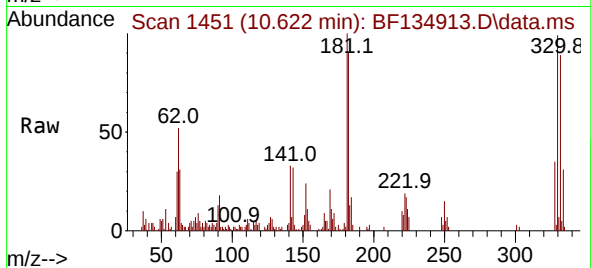
Tgt Ion:330 Resp: 12870

Ion Ratio Lower Upper

330 100

332 90.8 76.3 114.5

141 36.6 23.4 35.2#



#45

2-Fluorobiphenyl

Concen: 6.912 ng

RT: 9.151 min Scan# 1201

Delta R.T. -0.006 min

Lab File: BF134913.D

Acq: 23 Aug 2023 19:50

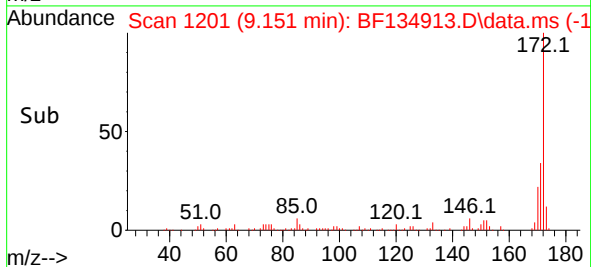
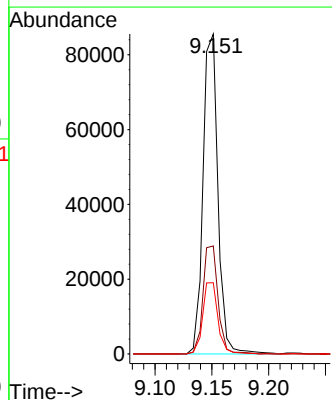
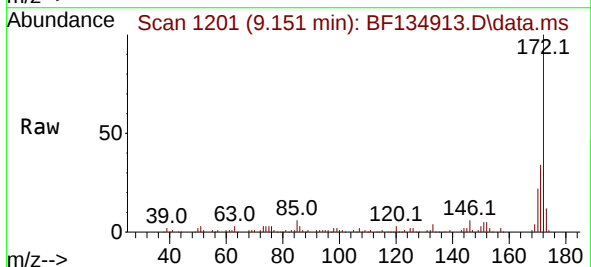
Tgt Ion:172 Resp: 78155

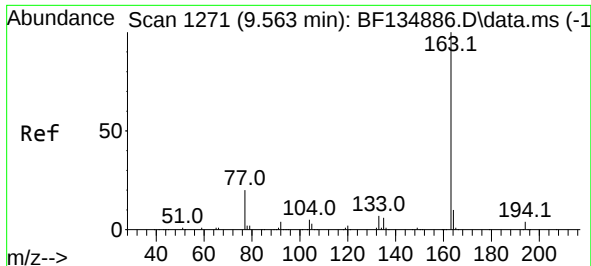
Ion Ratio Lower Upper

172 100

171 33.7 29.4 44.0

170 22.3 19.6 29.4

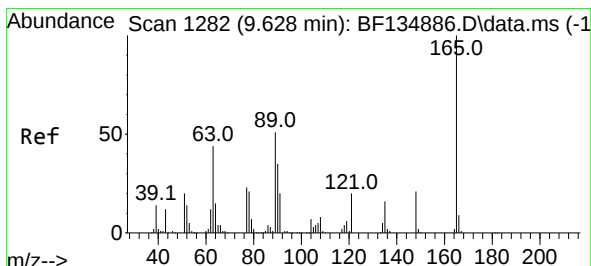
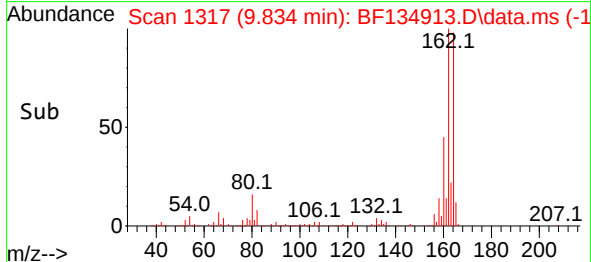
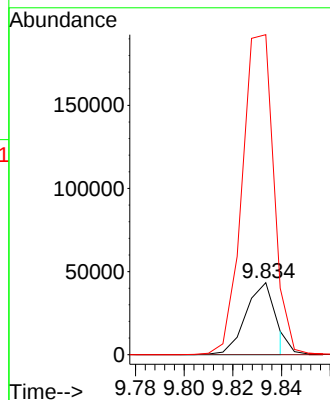
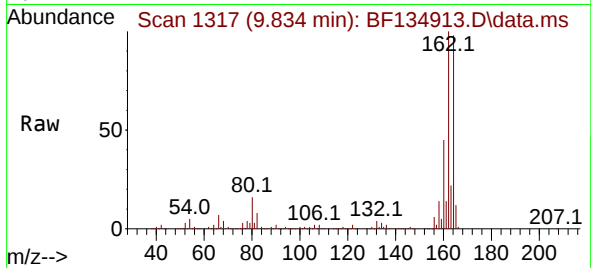




#50
Dimethylphthalate
Concen: 2.944 ng
RT: 9.834 min Scan# 11
Delta R.T. 0.271 min
Lab File: BF134913.D
Acq: 23 Aug 2023 19:50

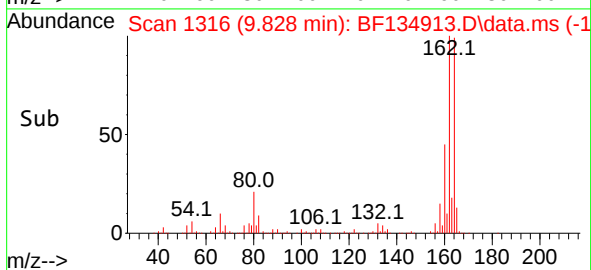
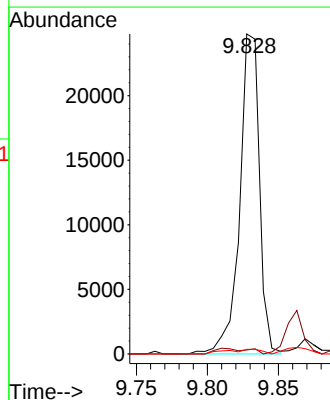
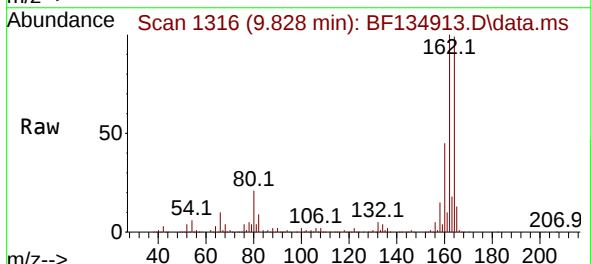
Instrument :
BNA_F
ClientSampleId :
277

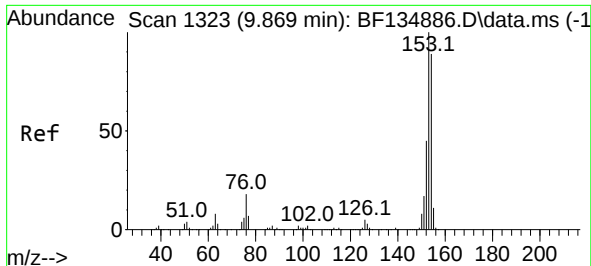
Tgt Ion:163 Resp: 36627
Ion Ratio Lower Upper
163 100
194 0.0 3.2 4.8#
164 444.1 8.2 12.4#



#51
2,6-Dinitrotoluene
Concen: 8.750 ng
RT: 9.828 min Scan# 1316
Delta R.T. 0.200 min
Lab File: BF134913.D
Acq: 23 Aug 2023 19:50

Tgt Ion:165 Resp: 24012
Ion Ratio Lower Upper
165 100
63 1.2 41.4 62.2#
89 1.4 40.9 61.3#

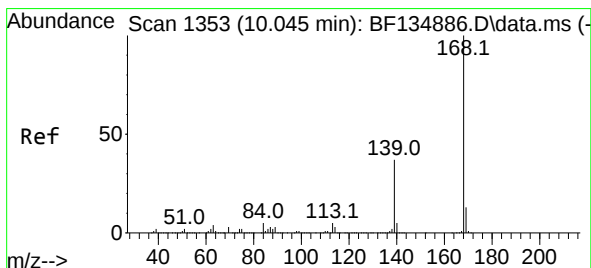
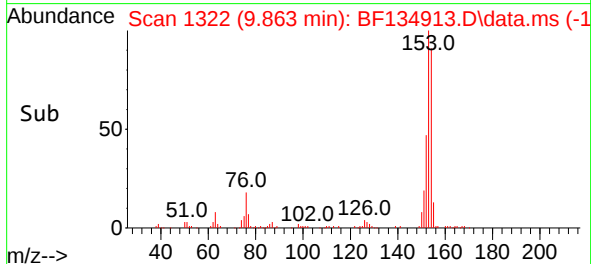
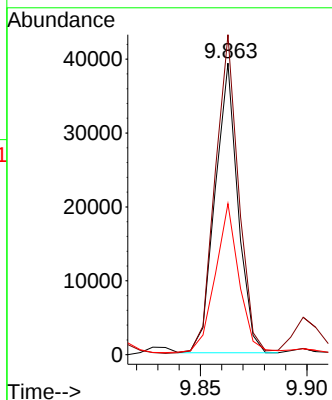
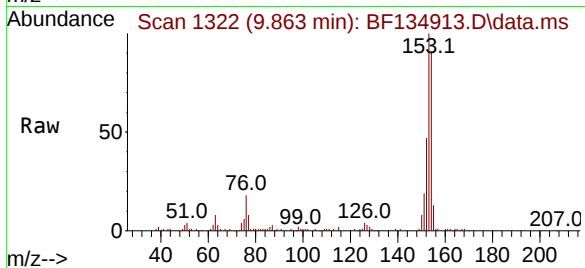




#52
Acenaphthene
Concen: 2.924 ng
RT: 9.863 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF134913.D
Acq: 23 Aug 2023 19:50

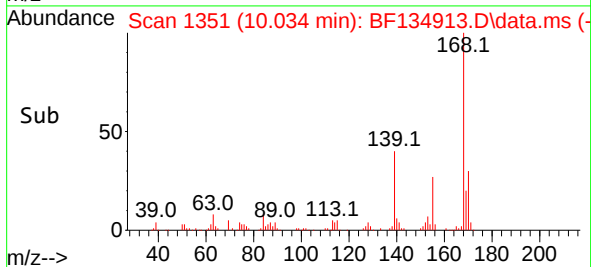
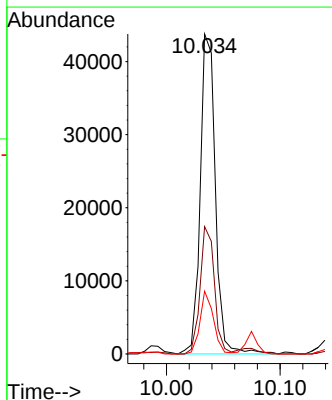
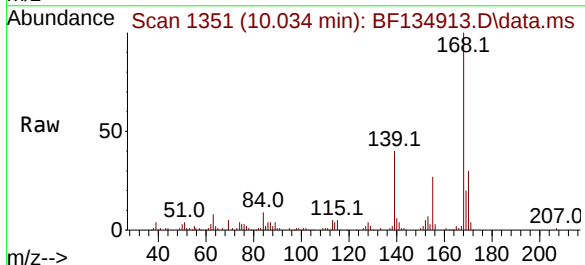
Instrument :
BNA_F
ClientSampleId :
277

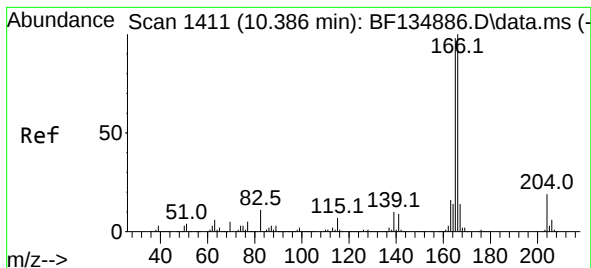
Tgt Ion:154 Resp: 29240
Ion Ratio Lower Upper
154 100
153 109.8 89.6 134.4
152 51.8 40.5 60.7



#55
Dibenzofuran
Concen: 2.784 ng
RT: 10.034 min Scan# 1351
Delta R.T. -0.012 min
Lab File: BF134913.D
Acq: 23 Aug 2023 19:50

Tgt Ion:168 Resp: 40533
Ion Ratio Lower Upper
168 100
139 39.8 29.5 44.3
169 19.6 10.7 16.1#





#58

Fluorene

Concen: 3.614 ng

RT: 10.381 min Scan# 1411

Delta R.T. -0.005 min

Lab File: BF134913.D

Acq: 23 Aug 2023 19:50

Instrument :

BNA_F

ClientSampleId :

277

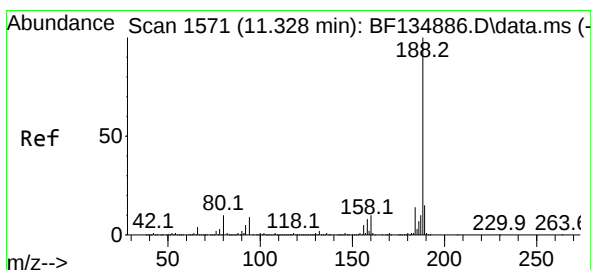
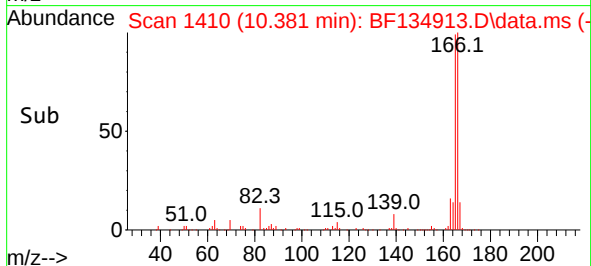
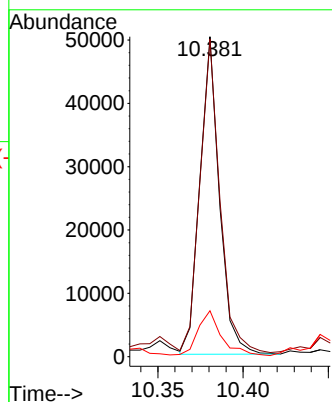
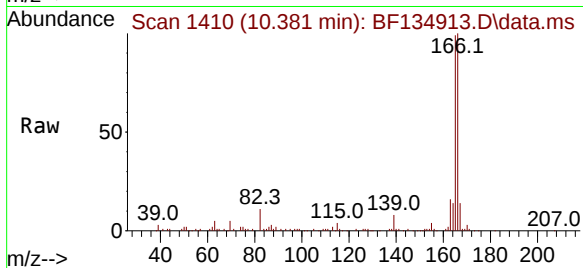
Tgt Ion:166 Resp: 39897

Ion Ratio Lower Upper

166 100

165 99.2 78.5 117.7

167 14.3 11.0 16.6



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.322 min Scan# 1570

Delta R.T. -0.006 min

Lab File: BF134913.D

Acq: 23 Aug 2023 19:50

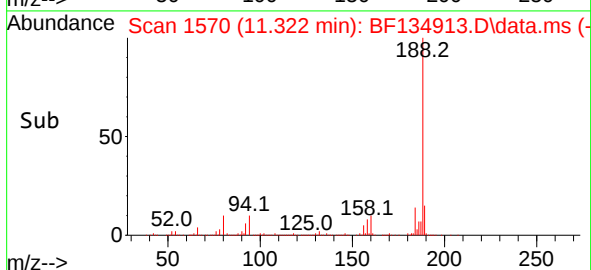
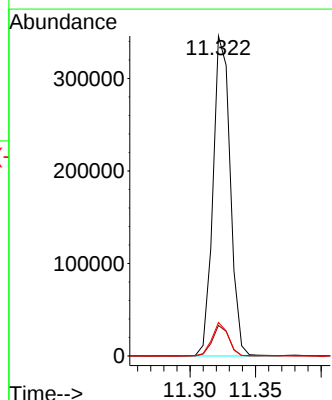
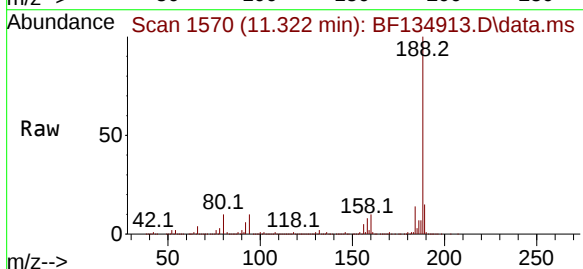
Tgt Ion:188 Resp: 315885

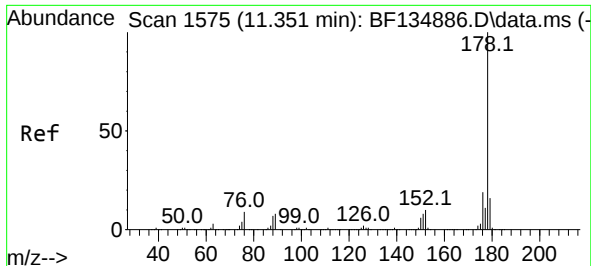
Ion Ratio Lower Upper

188 100

94 9.5 7.5 11.3

80 10.4 7.8 11.6

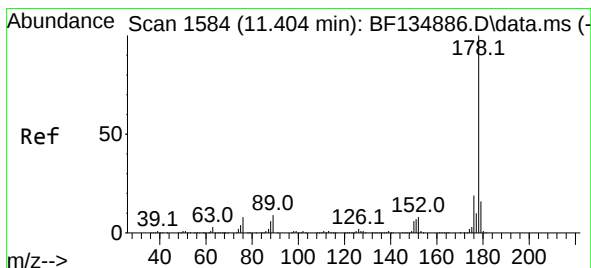
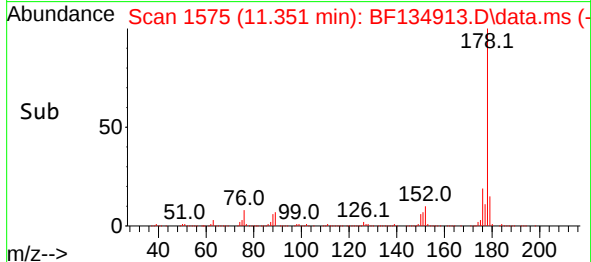
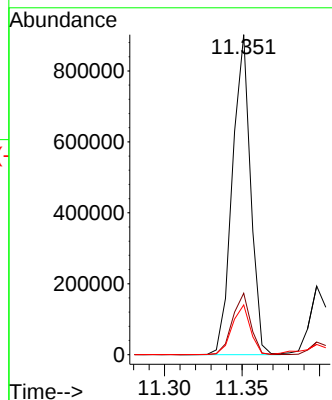
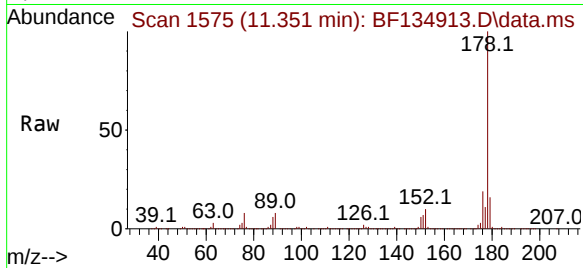




#71
Phenanthrene
Concen: 44.472 ng
RT: 11.351 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF134913.D
Acq: 23 Aug 2023 19:50

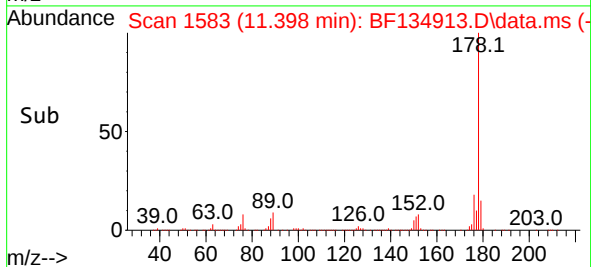
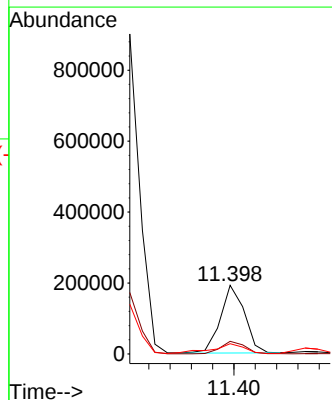
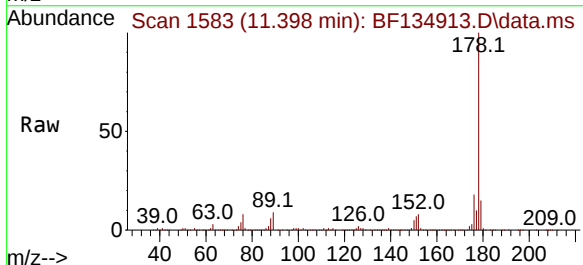
Instrument :
BNA_F
ClientSampleId :
277

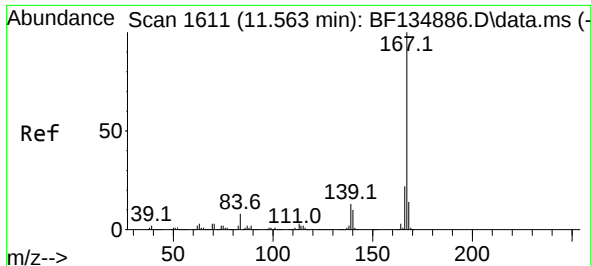
Tgt Ion:178 Resp: 736149
Ion Ratio Lower Upper
178 100
176 19.2 15.5 23.3
179 15.5 12.6 19.0



#72
Anthracene
Concen: 8.867 ng
RT: 11.398 min Scan# 1583
Delta R.T. -0.006 min
Lab File: BF134913.D
Acq: 23 Aug 2023 19:50

Tgt Ion:178 Resp: 150378
Ion Ratio Lower Upper
178 100
176 18.3 15.0 22.6
179 15.0 12.5 18.7

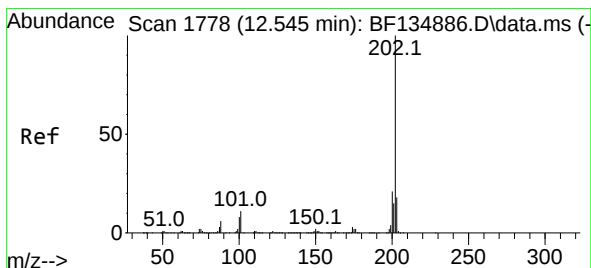
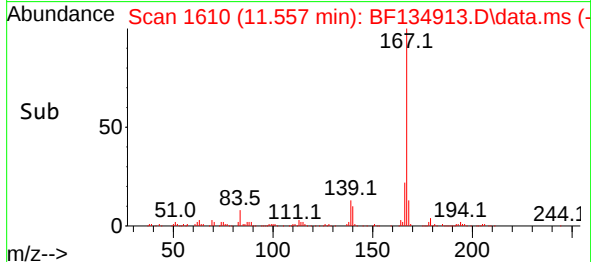
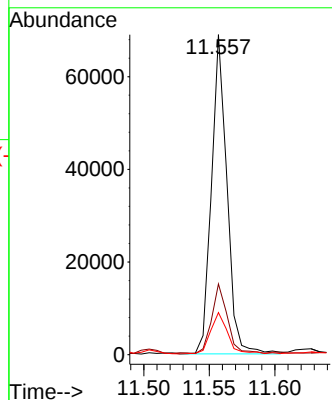
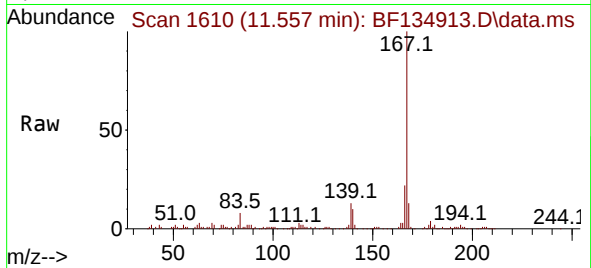




#73
 Carbazole
 Concen: 4.052 ng
 RT: 11.557 min Scan# 1610
 Delta R.T. -0.006 min
 Lab File: BF134913.D
 Acq: 23 Aug 2023 19:50

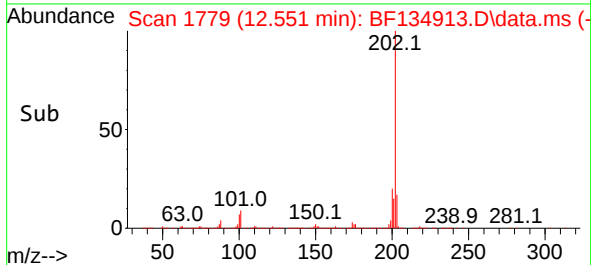
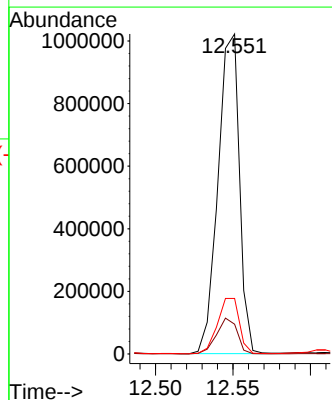
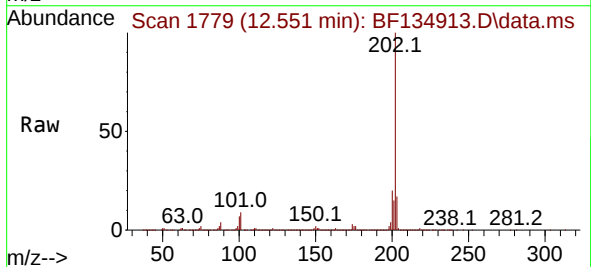
Instrument :
 BNA_F
 ClientSampleId :
 277

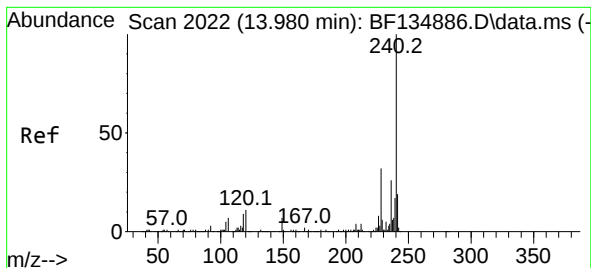
Tgt Ion:167 Resp: 56626
 Ion Ratio Lower Upper
 167 100
 166 22.1 17.4 26.2
 139 13.2 10.4 15.6



#75
 Fluoranthene
 Concen: 62.647 ng
 RT: 12.551 min Scan# 1779
 Delta R.T. 0.006 min
 Lab File: BF134913.D
 Acq: 23 Aug 2023 19:50

Tgt Ion:202 Resp: 982563
 Ion Ratio Lower Upper
 202 100
 101 9.3 0.0 30.5
 203 17.3 0.0 37.8





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.980 min Scan# 20

Delta R.T. 0.000 min

Lab File: BF134913.D

Acq: 23 Aug 2023 19:50

Instrument :

BNA_F

ClientSampleId :

277

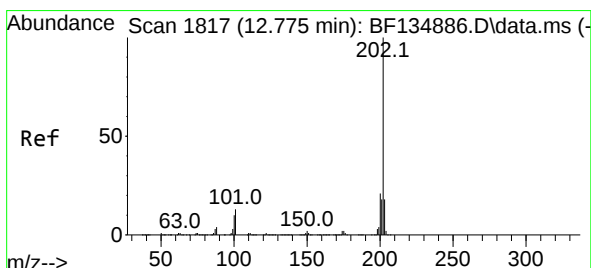
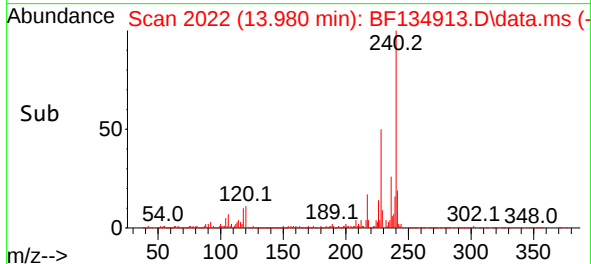
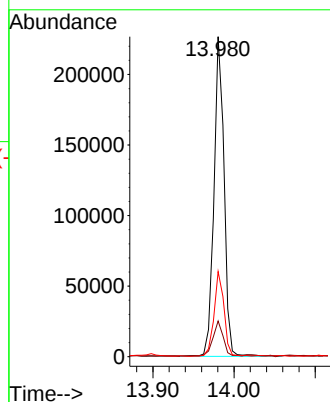
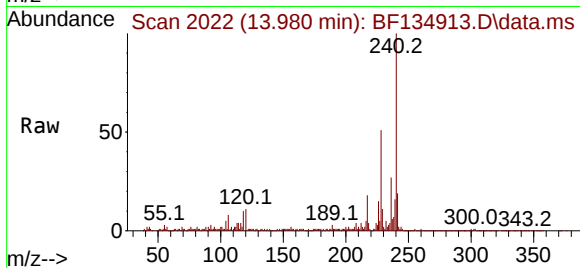
Tgt Ion:240 Resp: 195459

Ion Ratio Lower Upper

240 100

120 11.2 8.6 12.8

236 26.6 20.6 31.0



#78

Pyrene

Concen: 44.565 ng

RT: 12.780 min Scan# 1818

Delta R.T. 0.006 min

Lab File: BF134913.D

Acq: 23 Aug 2023 19:50

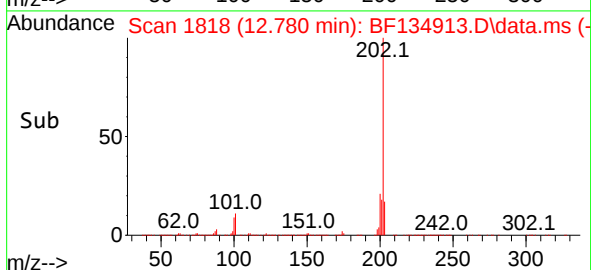
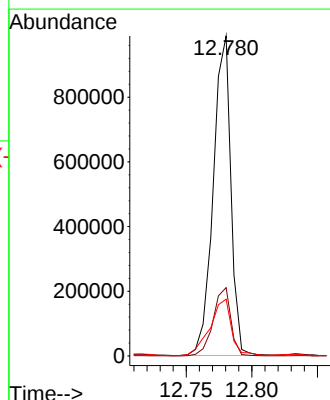
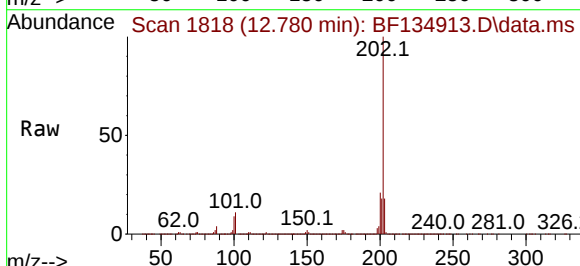
Tgt Ion:202 Resp: 923549

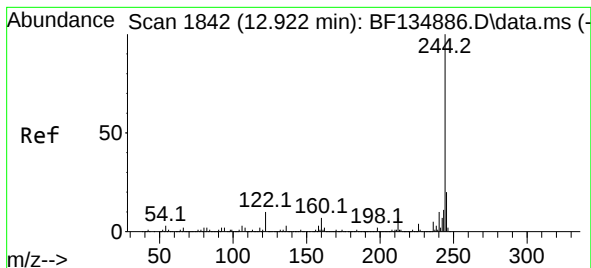
Ion Ratio Lower Upper

202 100

200 21.3 17.1 25.7

203 17.8 14.2 21.2





#79

Terphenyl-d14

Concen: 5.620 ng

RT: 12.922 min Scan# 1842

Delta R.T. -0.000 min

Lab File: BF134913.D

Acq: 23 Aug 2023 19:50

Instrument :

BNA_F

ClientSampleId :

277

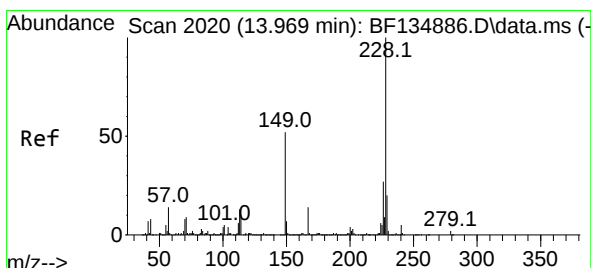
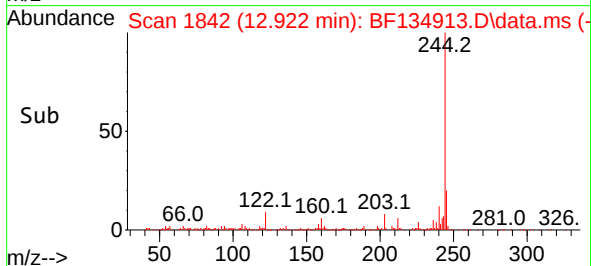
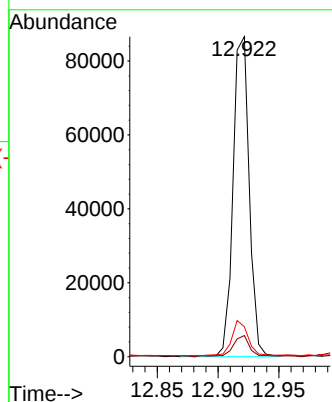
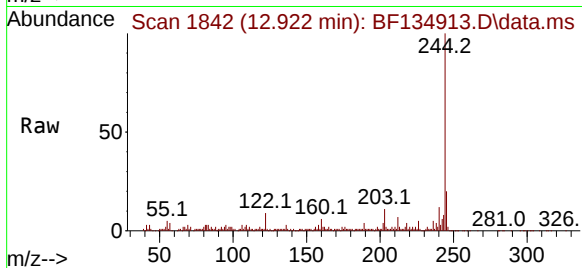
Tgt Ion:244 Resp: 79872

Ion Ratio Lower Upper

244 100

212 6.6 5.4 8.0

122 9.4 8.2 12.4



#81

Benzo(a)anthracene

Concen: 25.370 ng

RT: 13.974 min Scan# 2021

Delta R.T. 0.006 min

Lab File: BF134913.D

Acq: 23 Aug 2023 19:50

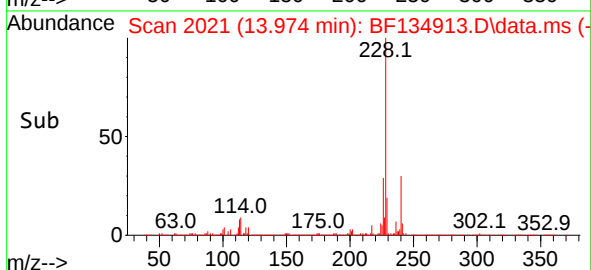
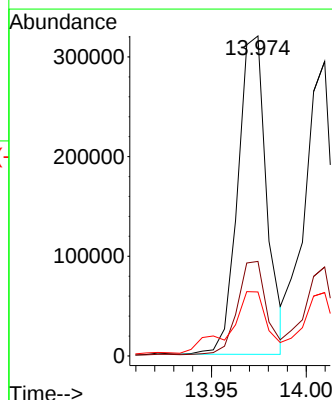
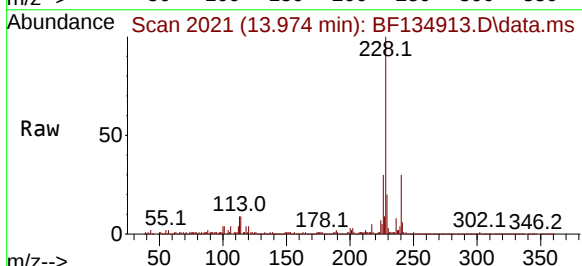
Tgt Ion:228 Resp: 338329

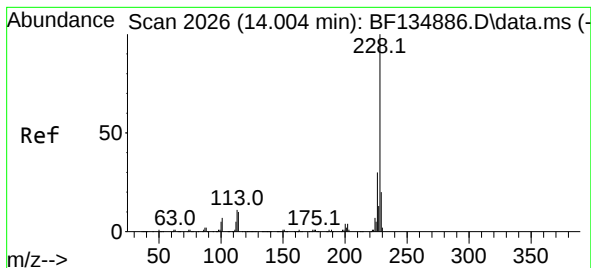
Ion Ratio Lower Upper

228 100

226 29.6 21.8 32.6

229 20.0 15.6 23.4





#83

Chrysene

Concen: 22.803 ng

RT: 14.010 min Scan# 20

Delta R.T. 0.006 min

Lab File: BF134913.D

Acq: 23 Aug 2023 19:50

Instrument :

BNA_F

ClientSampleId :

277

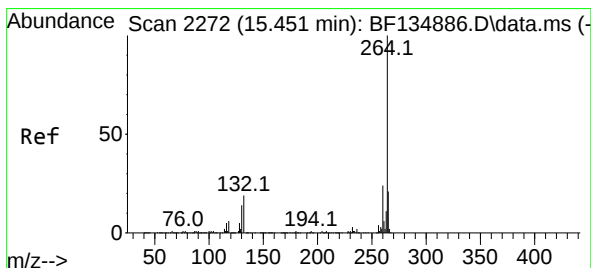
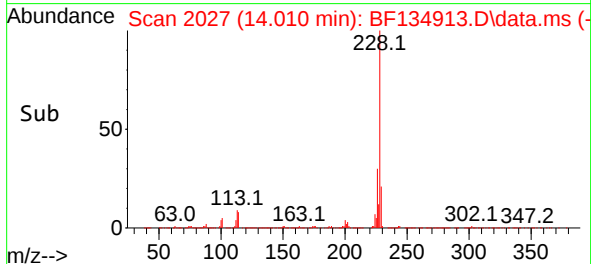
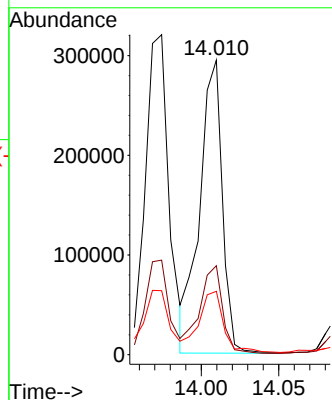
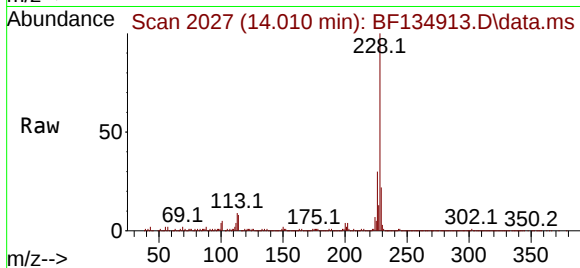
Tgt Ion:228 Resp: 300041

Ion Ratio Lower Upper

228 100

226 30.2 24.2 36.2

229 21.5 16.0 24.0



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.457 min Scan# 2273

Delta R.T. 0.006 min

Lab File: BF134913.D

Acq: 23 Aug 2023 19:50

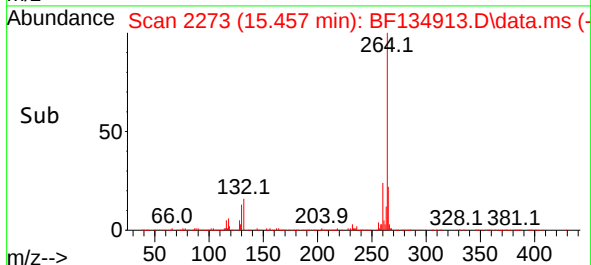
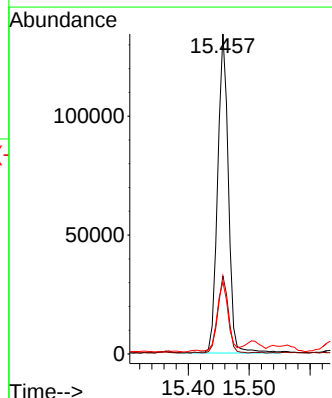
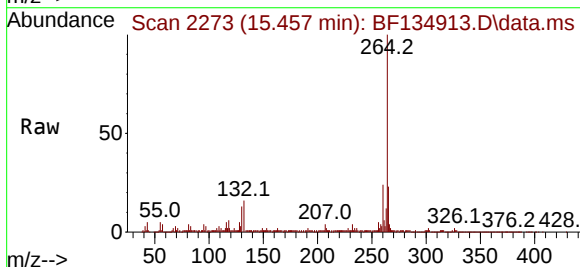
Tgt Ion:264 Resp: 164267

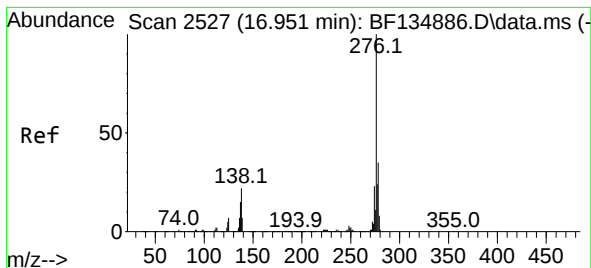
Ion Ratio Lower Upper

264 100

260 24.4 19.0 28.6

265 22.5 17.1 25.7





#87

Indeno(1,2,3-cd)pyrene

Concen: 9.313 ng

RT: 16.945 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF134913.D

Acq: 23 Aug 2023 19:50

Instrument :

BNA_F

ClientSampleId :

277

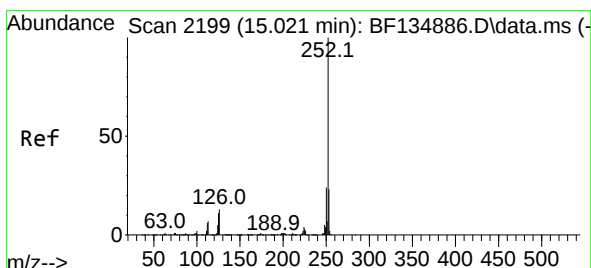
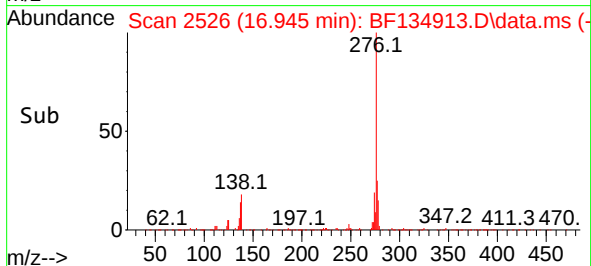
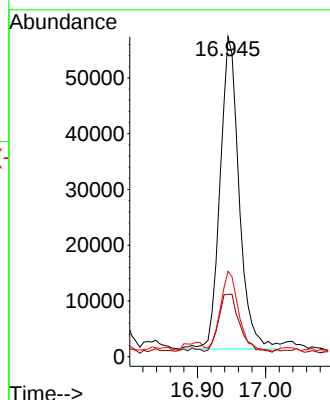
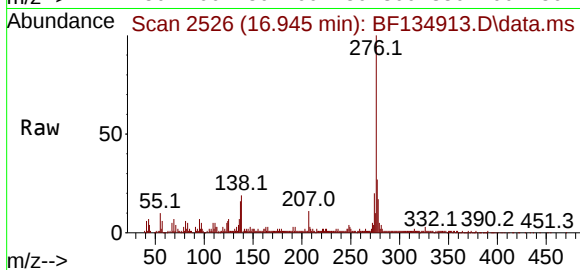
Tgt Ion:276 Resp: 109349

Ion Ratio Lower Upper

276 100

138 21.0 19.7 29.5

277 24.0 20.1 30.1



#88

Benzo(b)fluoranthene

Concen: 41.957 ng

RT: 15.027 min Scan# 2200

Delta R.T. 0.006 min

Lab File: BF134913.D

Acq: 23 Aug 2023 19:50

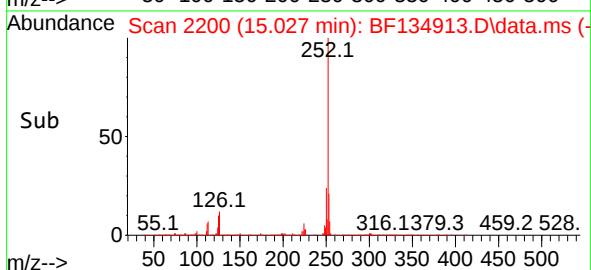
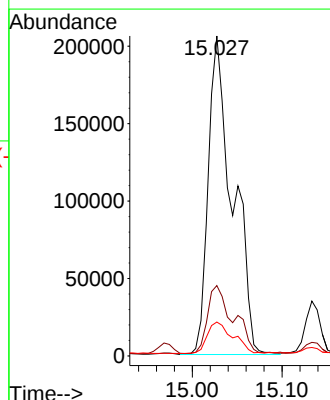
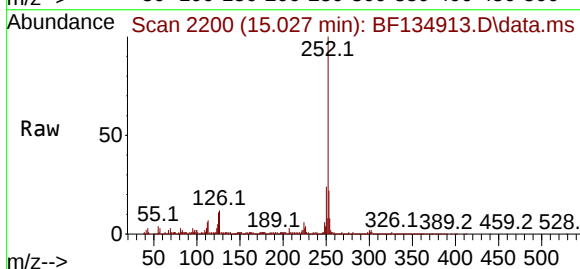
Tgt Ion:252 Resp: 388851

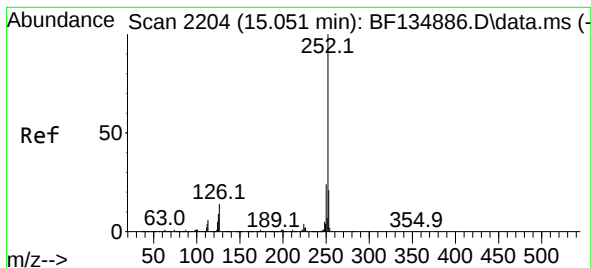
Ion Ratio Lower Upper

252 100

253 22.0 18.1 27.1

125 10.6 8.4 12.6





#89

Benzo(k)fluoranthene

Concen: 42.727 ng

RT: 15.027 min Scan# 21

Delta R.T. -0.024 min

Lab File: BF134913.D

Acq: 23 Aug 2023 19:50

Instrument :

BNA_F

ClientSampleId :

277

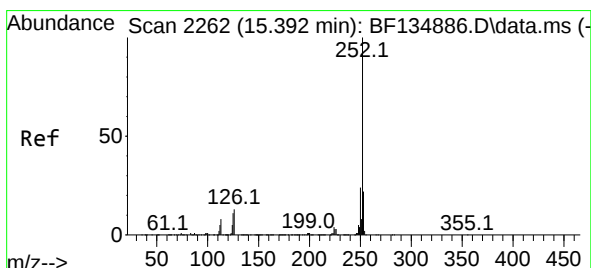
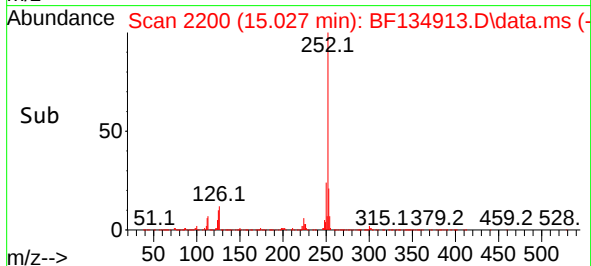
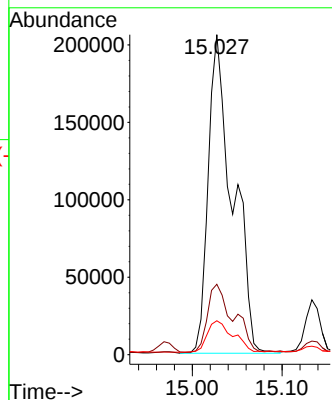
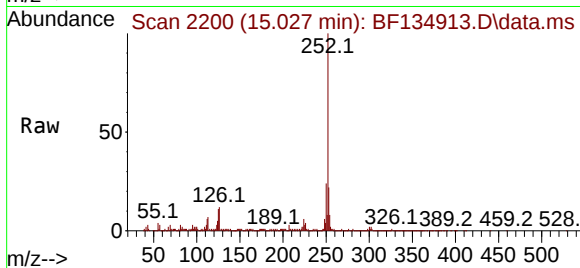
Tgt Ion:252 Resp: 388851

Ion Ratio Lower Upper

252 100

253 22.0 17.1 25.7

125 10.6 8.0 12.0



#90

Benzo(a)pyrene

Concen: 22.906 ng

RT: 15.392 min Scan# 2262

Delta R.T. 0.000 min

Lab File: BF134913.D

Acq: 23 Aug 2023 19:50

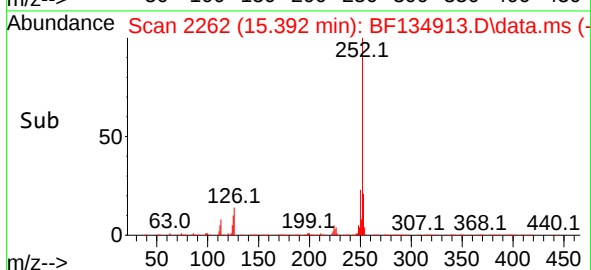
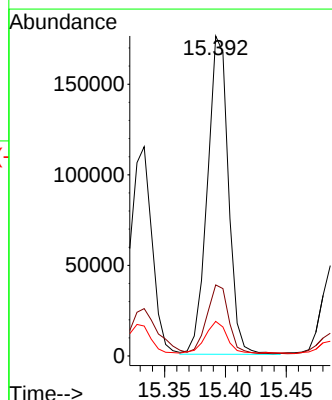
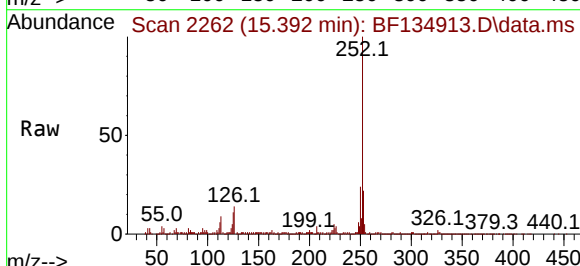
Tgt Ion:252 Resp: 211928

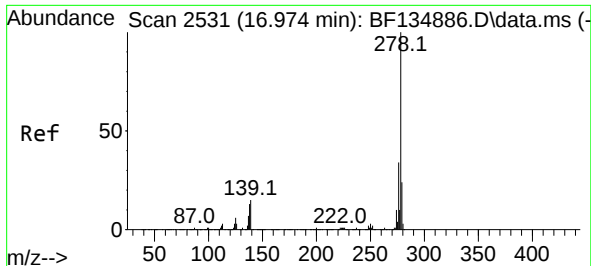
Ion Ratio Lower Upper

252 100

253 22.2 17.6 26.4

125 10.8 8.4 12.6

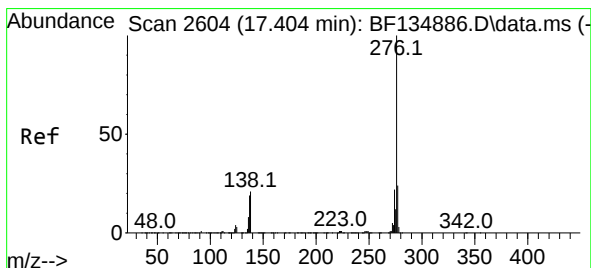
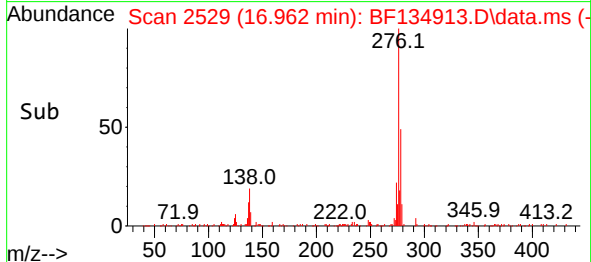
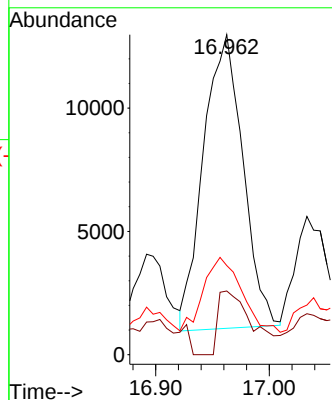
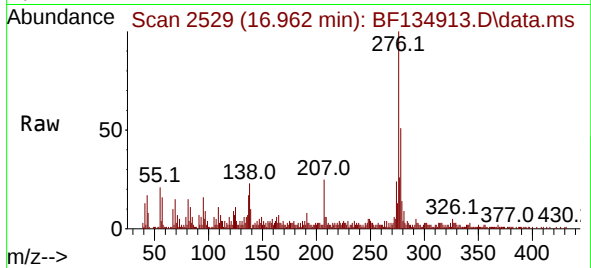




#91
Dibenzo(a,h)anthracene
Concen: 3.027 ng
RT: 16.962 min Scan# 2529
Delta R.T. -0.012 min
Lab File: BF134913.D
Acq: 23 Aug 2023 19:50

Instrument :
BNA_F
ClientSampleId :
277

Tgt Ion:278 Resp: 28761
Ion Ratio Lower Upper
278 100
139 19.9 12.2 18.4#
279 27.8 19.1 28.7



#92
Benzo(g,h,i)perylene
Concen: 10.874 ng
RT: 17.398 min Scan# 2603
Delta R.T. -0.006 min
Lab File: BF134913.D
Acq: 23 Aug 2023 19:50

Tgt Ion:276 Resp: 105750
Ion Ratio Lower Upper
276 100
277 24.6 19.2 28.8
138 22.9 17.0 25.6

