

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082823\
 Data File : BF134964.D
 Acq On : 28 Aug 2023 12:48
 Operator : CG\JU
 Sample : 04110-15
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-22(3-4)

Quant Time: Aug 29 03:48:26 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082223.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 28 02:45:19 2023
 Response via : Initial Calibration

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

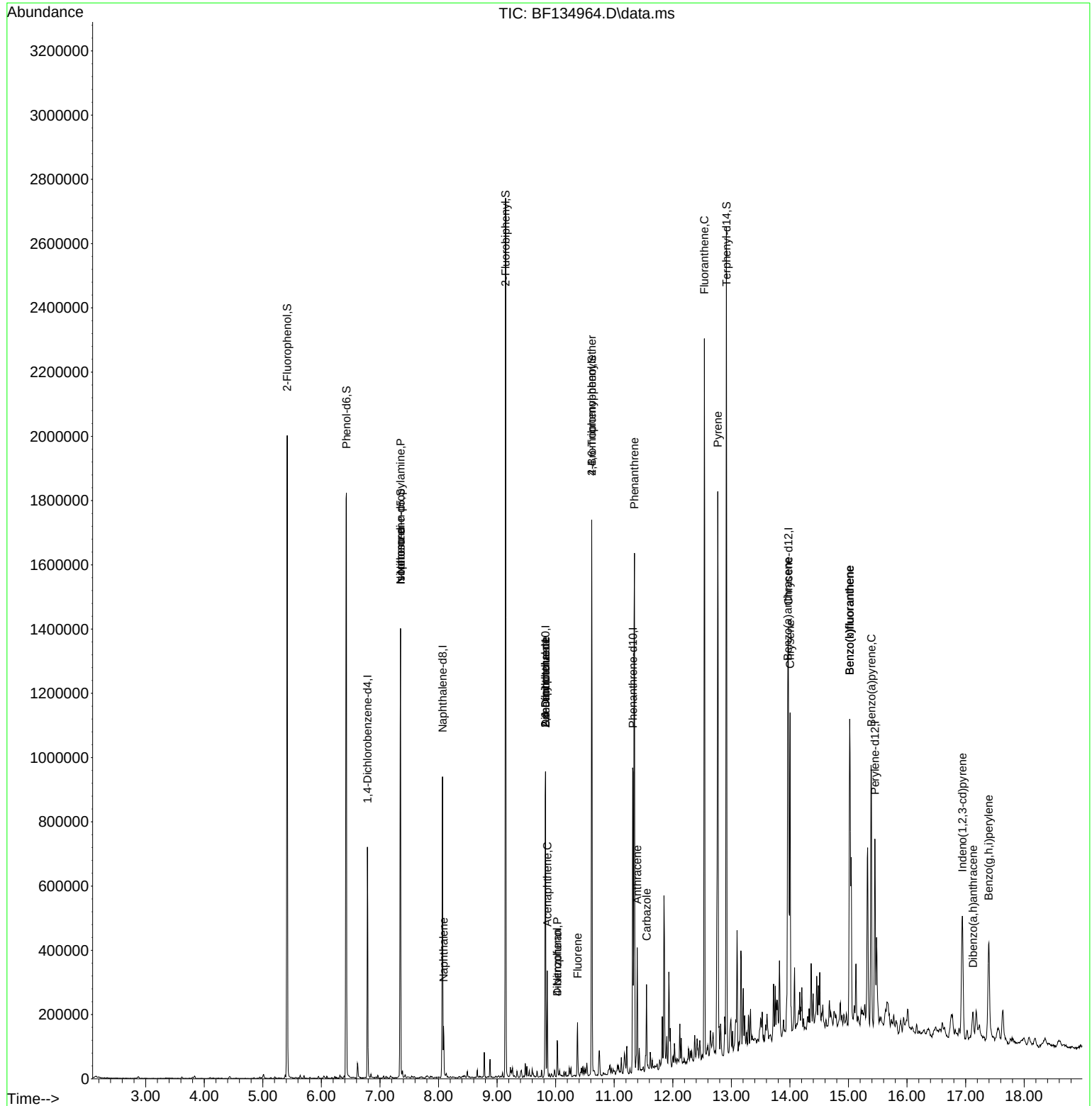
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.787	152	94167	20.000	ng	0.00
21) Naphthalene-d8	8.069	136	375078	20.000	ng	0.00
39) Acenaphthene-d10	9.828	164	191539	20.000	ng	0.00
64) Phenanthrene-d10	11.322	188	366920	20.000	ng	0.00
76) Chrysene-d12	13.974	240	218613	20.000	ng	0.00
86) Perylene-d12	15.451	264	254633	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.416	112	492402	83.385	ng	0.00
7) Phenol-d6	6.428	99	647089	85.756	ng	-0.01
23) Nitrobenzene-d5	7.351	82	407552	59.874	ng	-0.01
42) 2,4,6-Tribromophenol	10.616	330	192655	85.402	ng	-0.01
45) 2-Fluorobiphenyl	9.145	172	751298	60.637	ng	-0.01
79) Terphenyl-d14	12.916	244	823940	51.838	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.351	70	55471	12.587	ng	# 77
25) Isophorone	7.351	82	403895	31.777	ng	# 64
31) Naphthalene	8.086	128	60194	3.214	ng	98
50) Dimethylphthalate	9.828	163	39757	2.916	ng	# 1
51) 2,6-Dinitrotoluene	9.828	165	24676	8.206	ng	# 29
52) Acenaphthene	9.857	154	58697	5.358	ng	98
55) Dibenzofuran	10.028	168	32935	2.065	ng	# 94
56) 4-Nitrophenol	10.028	139	12461	5.444	ng	# 9
57) 2,4-Dinitrotoluene	9.828	165	24676	6.635	ng	# 25
58) Fluorene	10.375	166	38948	3.219	ng	99
67) 4-Bromophenyl-phenylether	10.616	248	12737	3.009	ng	# 1
71) Phenanthrene	11.345	178	581228	30.229	ng	99
72) Anthracene	11.392	178	134619	6.833	ng	99
73) Carbazole	11.551	167	91289	5.624	ng	99
75) Fluoranthene	12.539	202	872260	47.879	ng	99
78) Pyrene	12.769	202	754904	32.569	ng	99
81) Benzo(a)anthracene	13.963	228	409505	27.455	ng	99
83) Chrysene	14.004	228	382531	25.993	ng	98
87) Indeno(1,2,3-cd)pyrene	16.945	276	273976	15.053	ng	94
88) Benzo(b)fluoranthene	15.021	252	738664	51.417	ng	99
89) Benzo(k)fluoranthene	15.021	252	738664	52.360	ng	98
90) Benzo(a)pyrene	15.392	252	414335	28.891	ng	98
91) Dibenzo(a,h)anthracene	17.127	278	56251	3.820	ng	95
92) Benzo(g,h,i)perylene	17.392	276	248403	16.477	ng	99

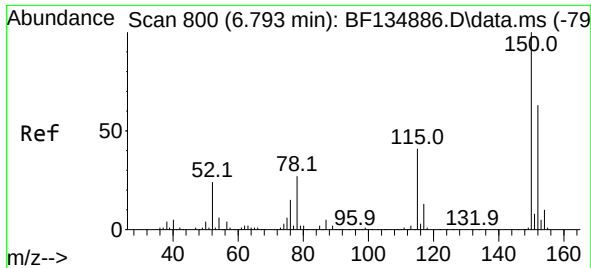
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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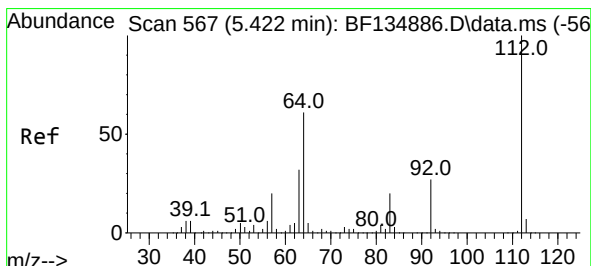
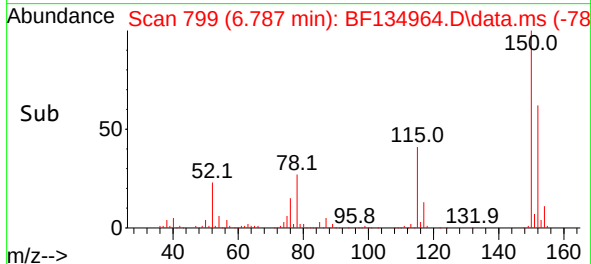
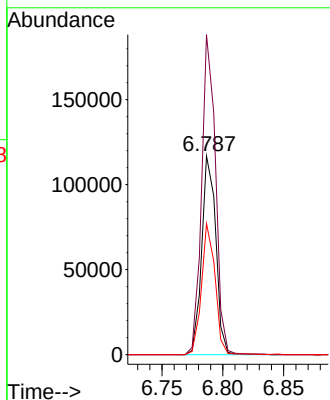
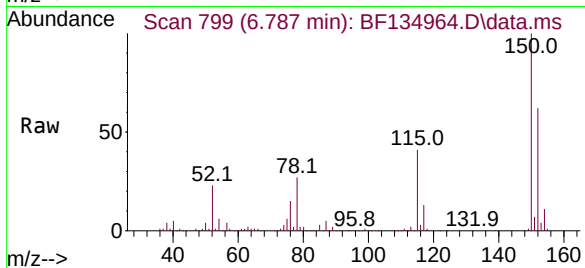




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.787 min Scan# 79
Delta R.T. -0.006 min
Lab File: BF134964.D
Acq: 28 Aug 2023 12:48

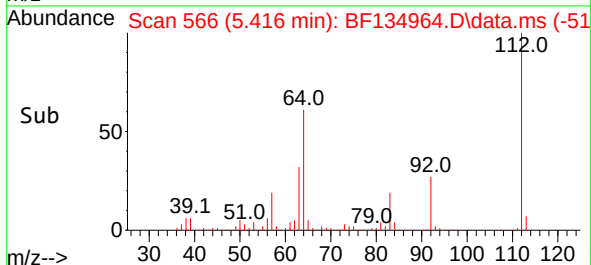
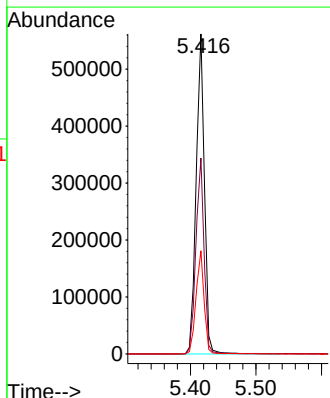
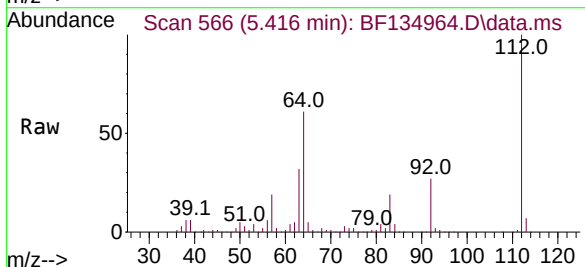
Instrument :
BNA_F
ClientSampleId :
TP-22(3-4)

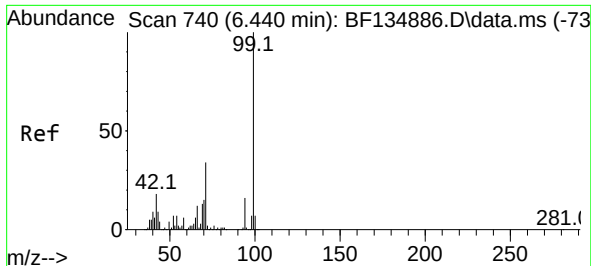
Tgt Ion:152 Resp: 94167
Ion Ratio Lower Upper
152 100
150 161.0 126.1 189.1
115 65.9 51.1 76.7



#5
2-Fluorophenol
Concen: 83.385 ng
RT: 5.416 min Scan# 566
Delta R.T. -0.006 min
Lab File: BF134964.D
Acq: 28 Aug 2023 12:48

Tgt Ion:112 Resp: 492402
Ion Ratio Lower Upper
112 100
64 61.2 48.6 73.0
63 32.2 25.7 38.5

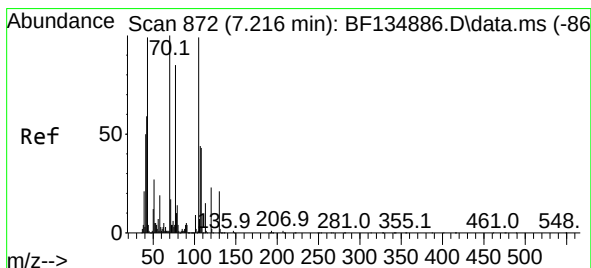
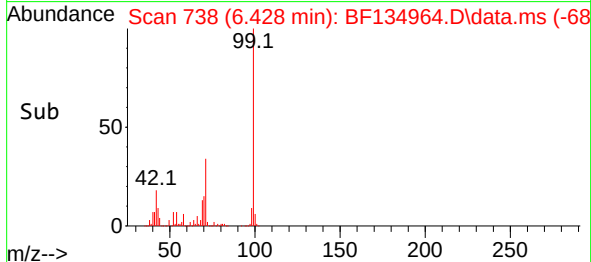
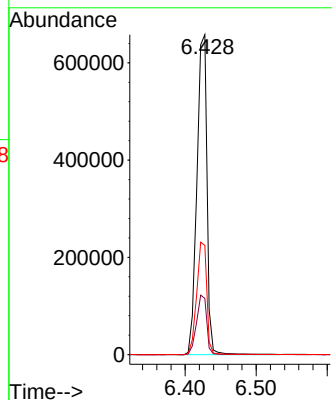
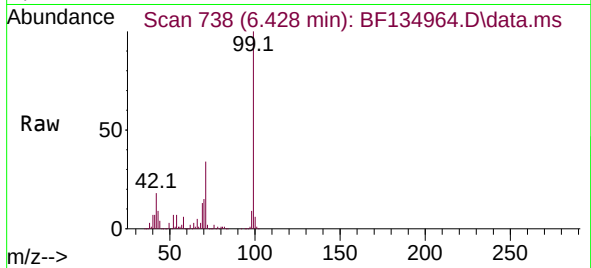




#7
Phenol-d6
Concen: 85.756 ng
RT: 6.428 min Scan# 740
Delta R.T. -0.012 min
Lab File: BF134964.D
Acq: 28 Aug 2023 12:48

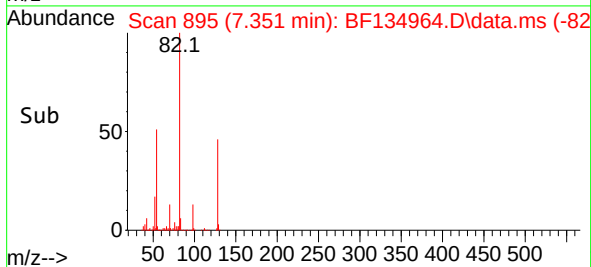
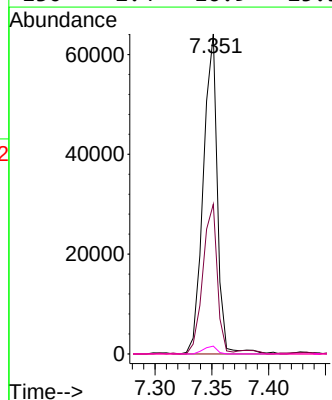
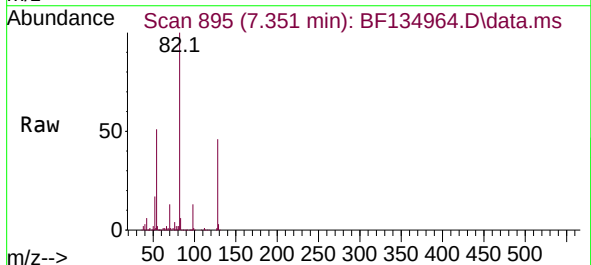
Instrument :
BNA_F
ClientSampleId :
TP-22(3-4)

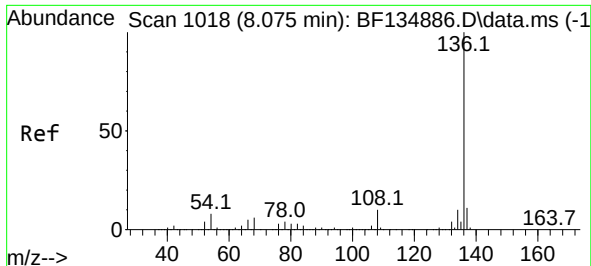
Tgt Ion: 99 Resp: 647089
Ion Ratio Lower Upper
99 100
42 17.6 14.6 22.0
71 34.1 27.6 41.4



#19
n-Nitroso-di-n-propylamine
Concen: 12.587 ng
RT: 7.351 min Scan# 895
Delta R.T. 0.135 min
Lab File: BF134964.D
Acq: 28 Aug 2023 12:48

Tgt Ion: 70 Resp: 55471
Ion Ratio Lower Upper
70 100
42 46.8 46.9 70.3#
101 0.0 7.5 11.3#
130 2.4 16.9 25.3#



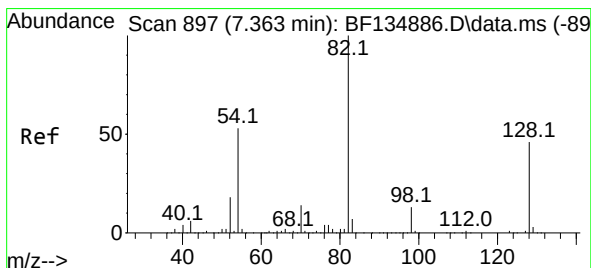
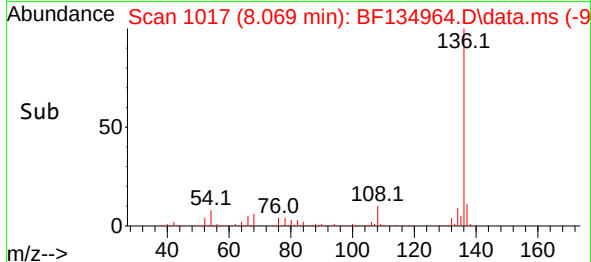
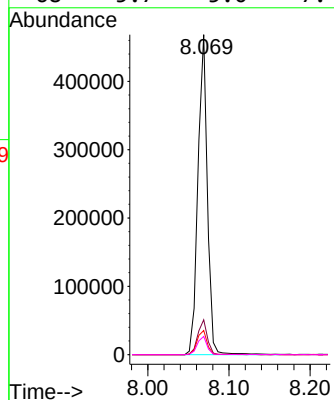
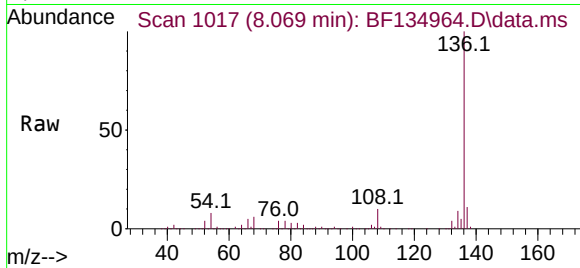


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1017
Delta R.T. -0.006 min
Lab File: BF134964.D
Acq: 28 Aug 2023 12:48

Instrument :
BNA_F
ClientSampleId :
TP-22(3-4)

Tgt Ion:136 Resp: 375078

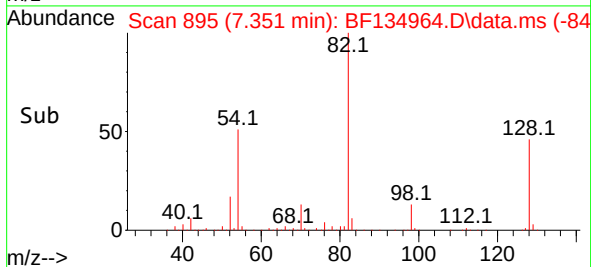
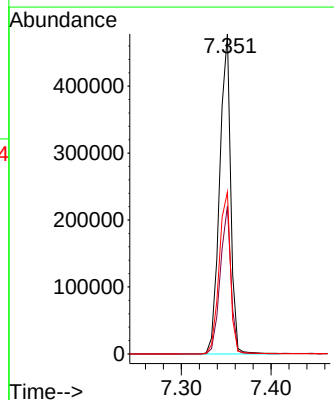
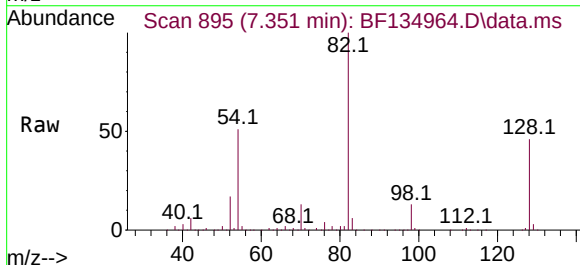
Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.9	13.3
54	7.5	6.6	9.8
68	5.7	5.0	7.4

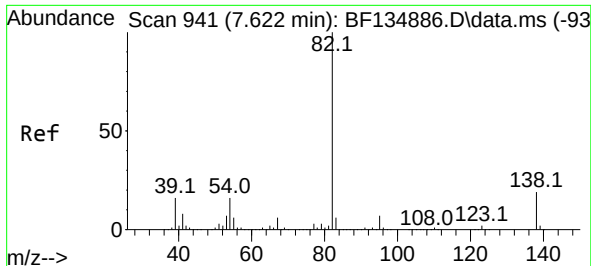


#23
Nitrobenzene-d5
Concen: 59.874 ng
RT: 7.351 min Scan# 895
Delta R.T. -0.012 min
Lab File: BF134964.D
Acq: 28 Aug 2023 12:48

Tgt Ion: 82 Resp: 407552

Ion	Ratio	Lower	Upper
82	100		
128	46.2	36.6	54.8
54	50.6	42.6	63.8

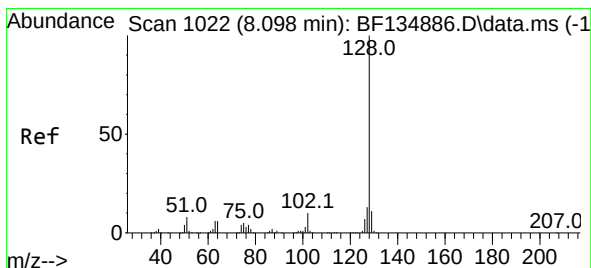
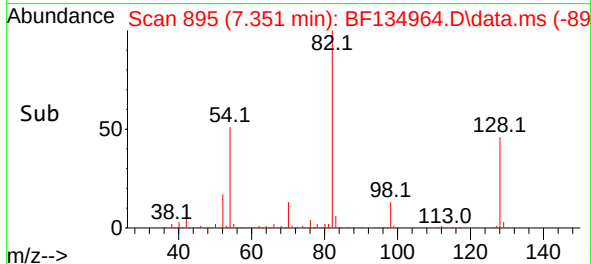
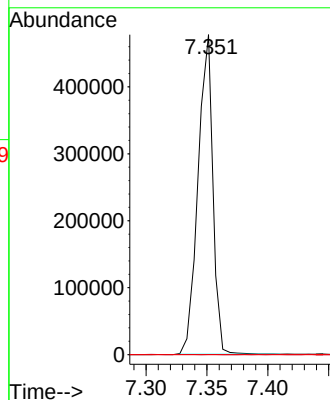
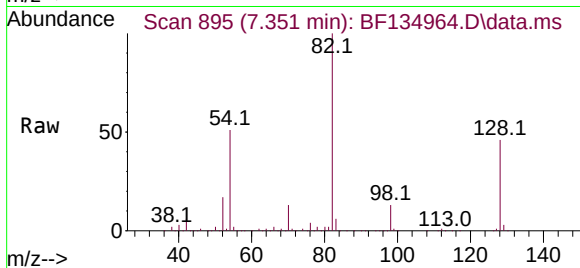




#25
Isophorone
Concen: 31.777 ng
RT: 7.351 min Scan# 89
Delta R.T. -0.271 min
Lab File: BF134964.D
Acq: 28 Aug 2023 12:48

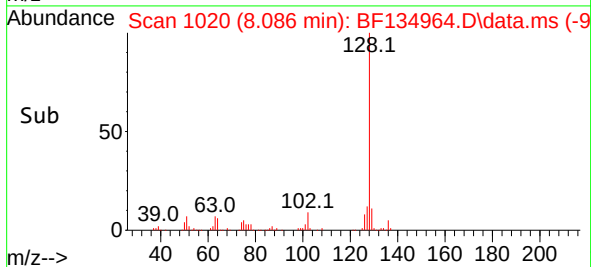
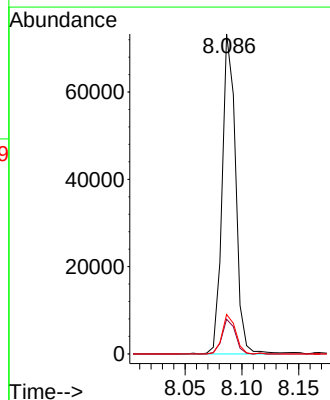
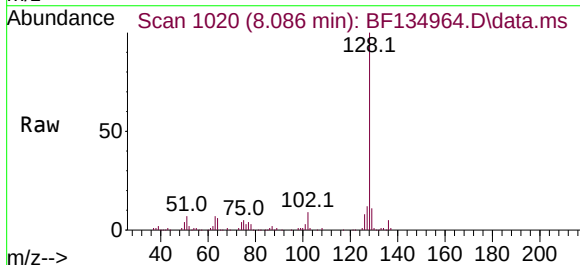
Instrument :
BNA_F
ClientSampleId :
TP-22(3-4)

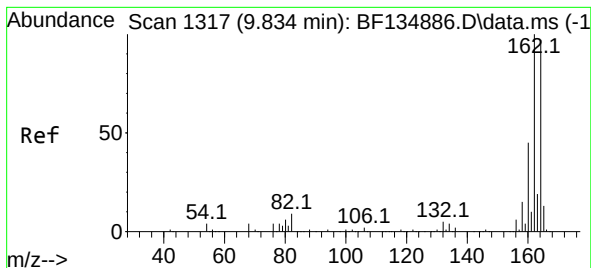
Tgt Ion: 82 Resp: 403895
Ion Ratio Lower Upper
82 100
95 0.0 5.9 8.9#
138 0.0 14.9 22.3#



#31
Naphthalene
Concen: 3.214 ng
RT: 8.086 min Scan# 1020
Delta R.T. -0.012 min
Lab File: BF134964.D
Acq: 28 Aug 2023 12:48

Tgt Ion: 128 Resp: 60194
Ion Ratio Lower Upper
128 100
129 10.8 9.0 13.4
127 12.3 10.6 16.0





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.828 min Scan# 1317

Delta R.T. -0.006 min

Lab File: BF134964.D

Acq: 28 Aug 2023 12:48

Instrument :

BNA_F

ClientSampleId :

TP-22(3-4)

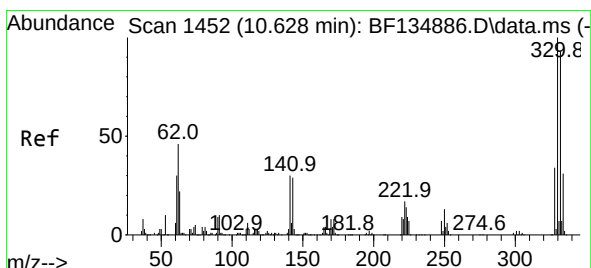
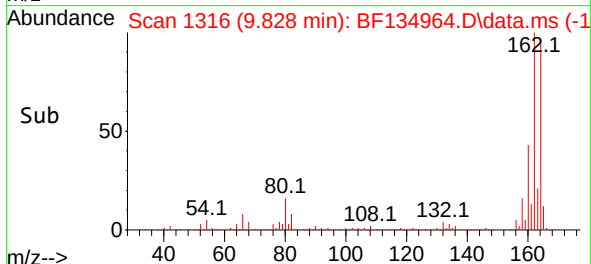
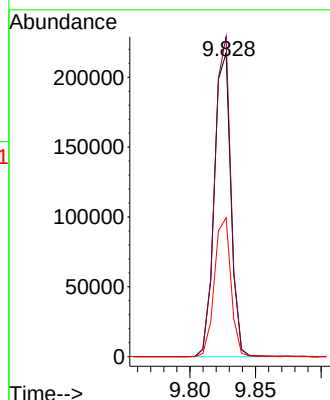
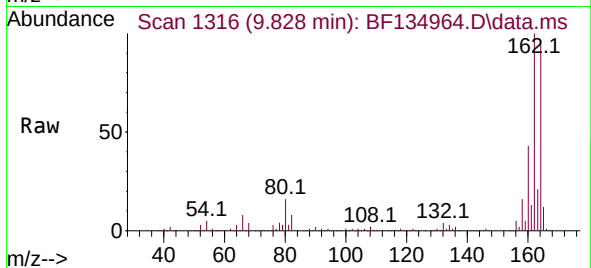
Tgt Ion:164 Resp: 191539

Ion Ratio Lower Upper

164 100

162 105.4 82.6 123.8

160 45.8 37.0 55.4



#42

2,4,6-Tribromophenol

Concen: 85.402 ng

RT: 10.616 min Scan# 1450

Delta R.T. -0.012 min

Lab File: BF134964.D

Acq: 28 Aug 2023 12:48

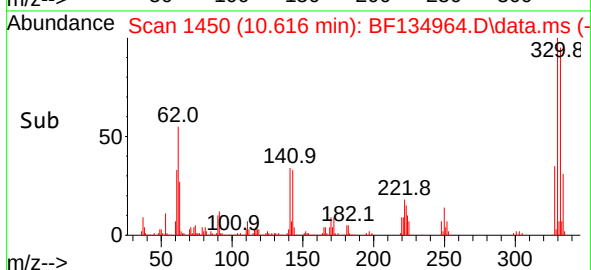
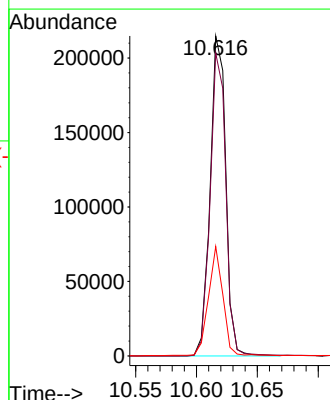
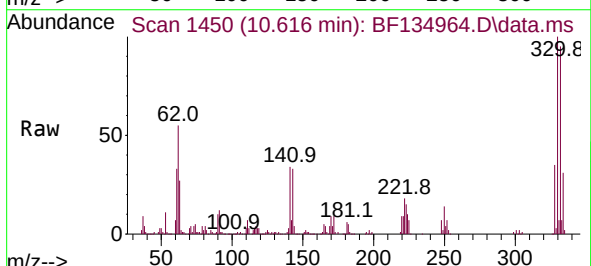
Tgt Ion:330 Resp: 192655

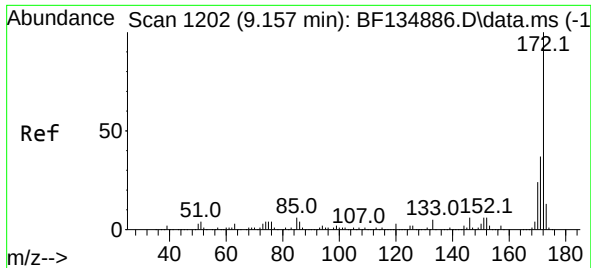
Ion Ratio Lower Upper

330 100

332 95.1 76.3 114.5

141 32.2 23.4 35.2





#45

2-Fluorobiphenyl

Concen: 60.637 ng

RT: 9.145 min Scan# 1316

Delta R.T. -0.012 min

Lab File: BF134964.D

Acq: 28 Aug 2023 12:48

Instrument :

BNA_F

ClientSampleId :

TP-22(3-4)

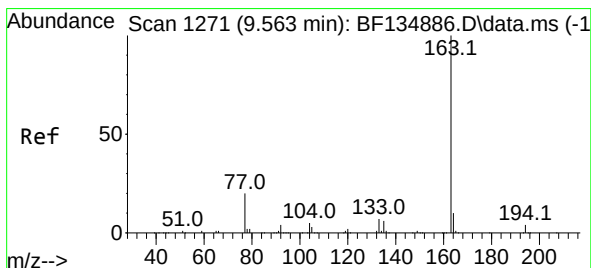
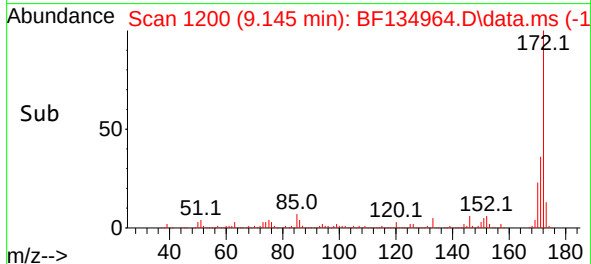
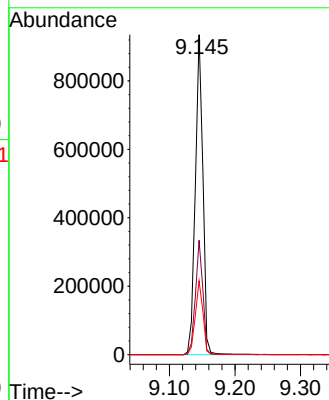
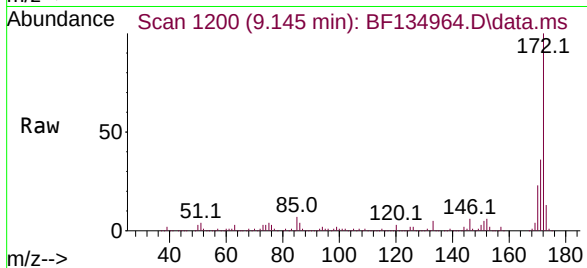
Tgt Ion:172 Resp: 751298

Ion Ratio Lower Upper

172 100

171 35.7 29.4 44.0

170 23.1 19.6 29.4



#50

Dimethylphthalate

Concen: 2.916 ng

RT: 9.828 min Scan# 1316

Delta R.T. 0.265 min

Lab File: BF134964.D

Acq: 28 Aug 2023 12:48

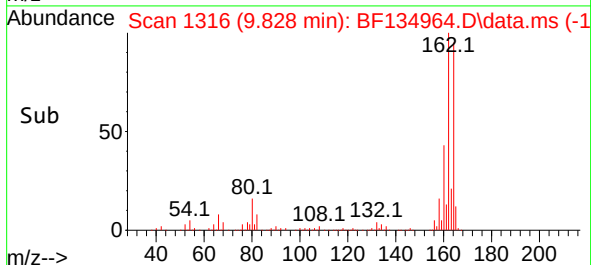
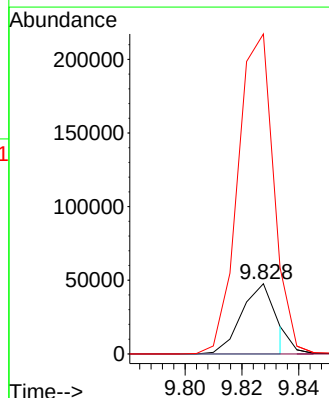
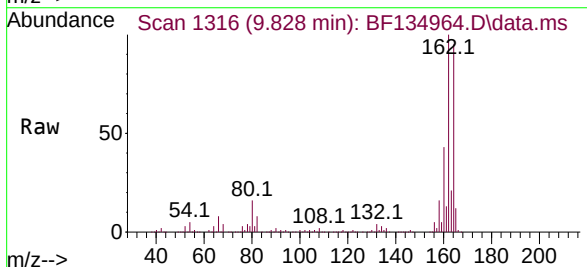
Tgt Ion:163 Resp: 39757

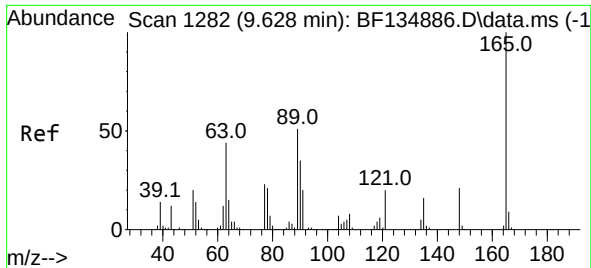
Ion Ratio Lower Upper

163 100

194 0.0 3.2 4.8#

164 456.4 8.2 12.4#

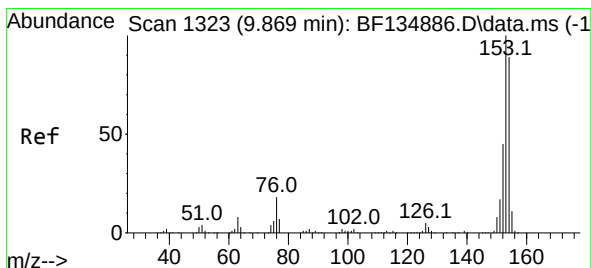
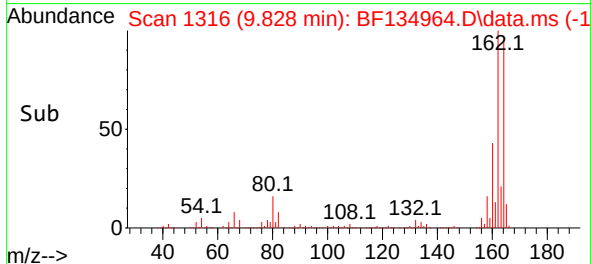
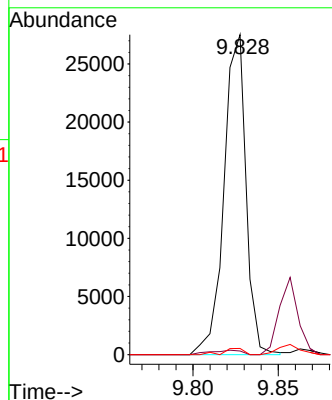
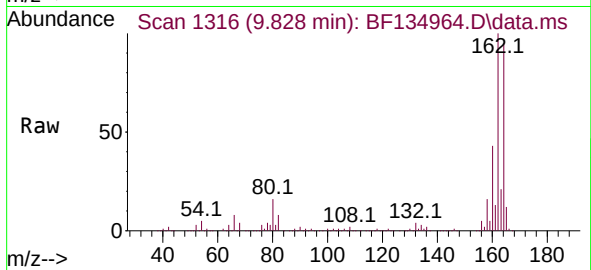




#51
2,6-Dinitrotoluene
Concen: 8.206 ng
RT: 9.828 min Scan# 1316
Delta R.T. 0.200 min
Lab File: BF134964.D
Acq: 28 Aug 2023 12:48

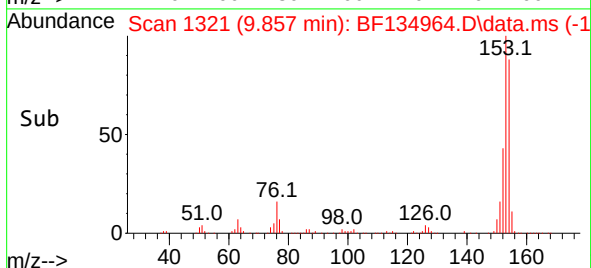
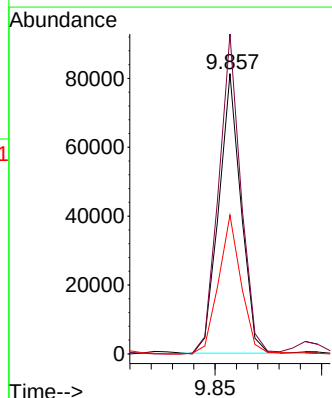
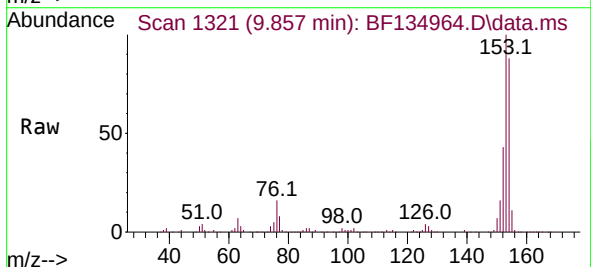
Instrument :
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TP-22(3-4)

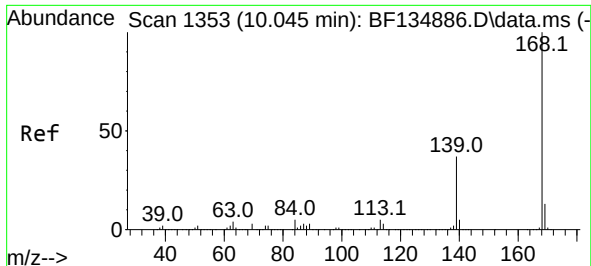
Tgt Ion:165 Resp: 24676
Ion Ratio Lower Upper
165 100
63 1.1 41.4 62.2#
89 1.9 40.9 61.3#



#52
Acenaphthene
Concen: 5.358 ng
RT: 9.857 min Scan# 1321
Delta R.T. -0.012 min
Lab File: BF134964.D
Acq: 28 Aug 2023 12:48

Tgt Ion:154 Resp: 58697
Ion Ratio Lower Upper
154 100
153 114.2 89.6 134.4
152 49.5 40.5 60.7

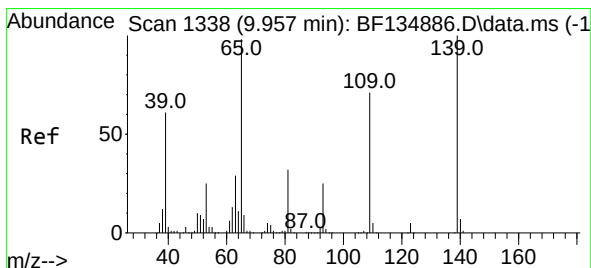
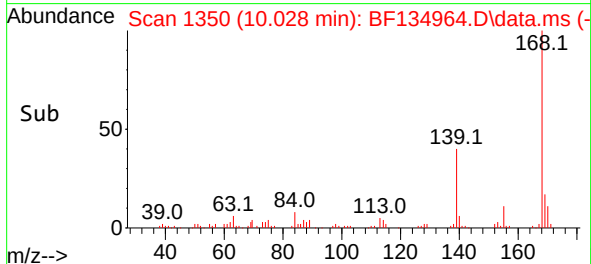
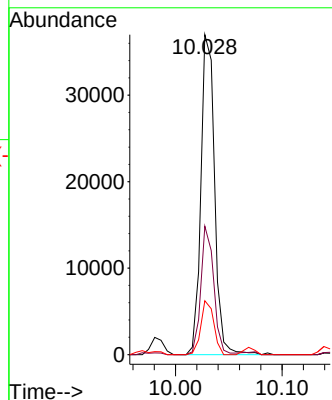
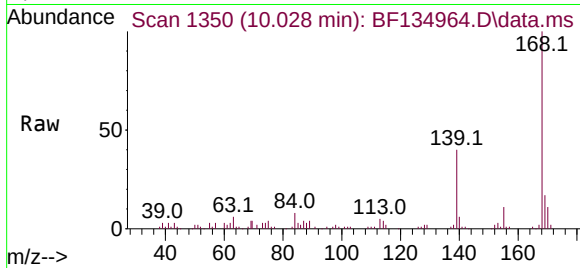




#55
Dibenzofuran
Concen: 2.065 ng
RT: 10.028 min Scan# 1350
Delta R.T. -0.018 min
Lab File: BF134964.D
Acq: 28 Aug 2023 12:48

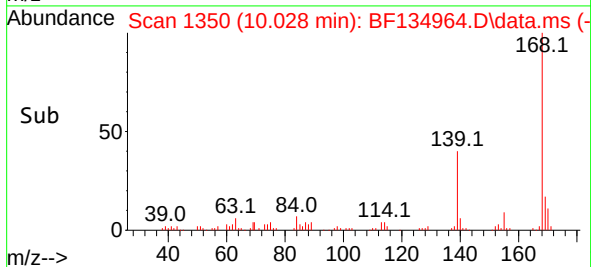
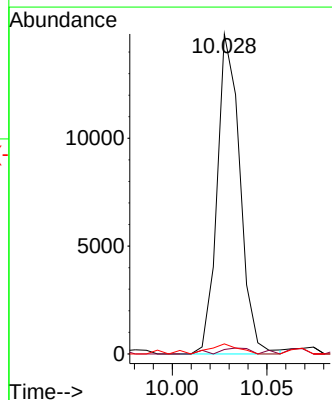
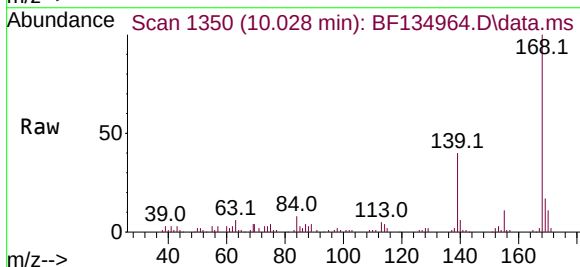
Instrument :
BNA_F
ClientSampleId :
TP-22(3-4)

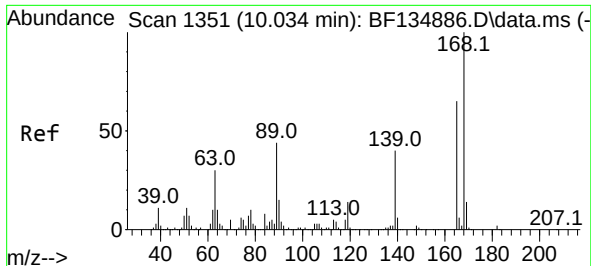
Tgt Ion:168 Resp: 32935
Ion Ratio Lower Upper
168 100
139 40.1 29.5 44.3
169 16.8 10.7 16.1#



#56
4-Nitrophenol
Concen: 5.444 ng
RT: 10.028 min Scan# 1350
Delta R.T. 0.070 min
Lab File: BF134964.D
Acq: 28 Aug 2023 12:48

Tgt Ion:139 Resp: 12461
Ion Ratio Lower Upper
139 100
109 1.4 51.0 91.0#
65 3.1 78.5 118.5#

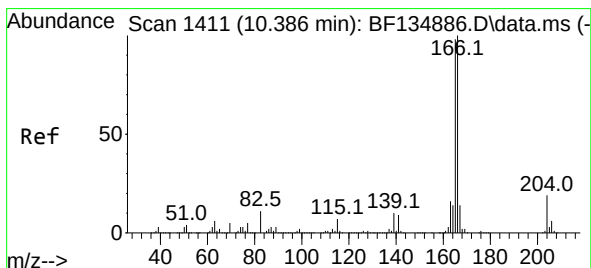
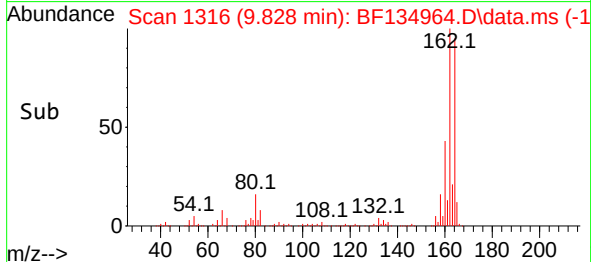
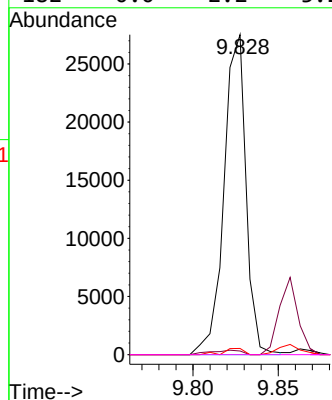
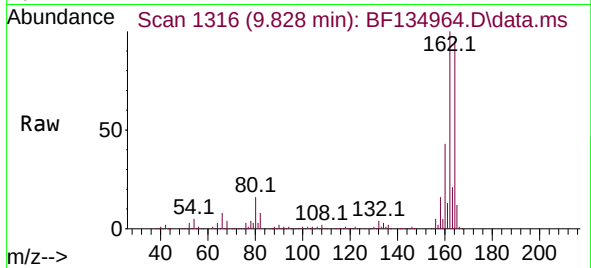




#57
2,4-Dinitrotoluene
Concen: 6.635 ng
RT: 9.828 min Scan# 1351
Delta R.T. -0.206 min
Lab File: BF134964.D
Acq: 28 Aug 2023 12:48

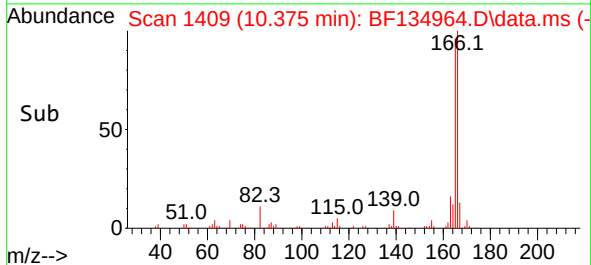
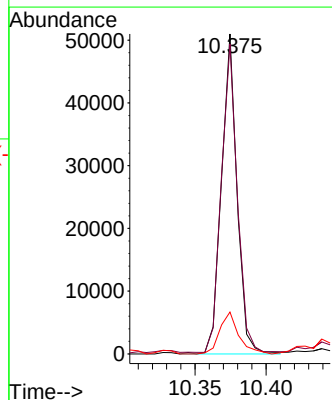
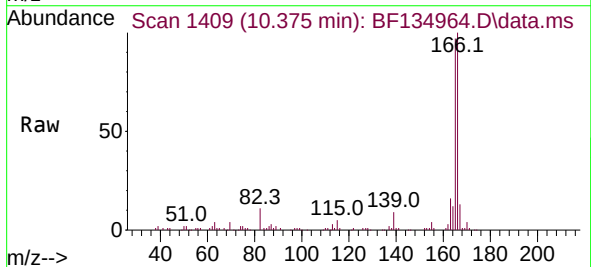
Instrument :
BNA_F
ClientSampleId :
TP-22(3-4)

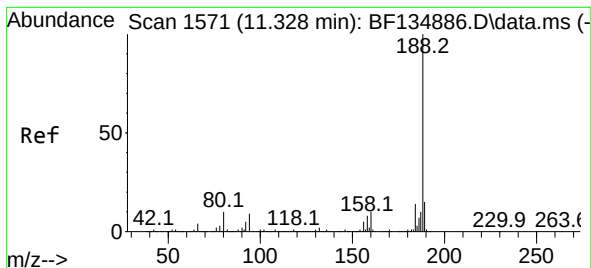
Tgt Ion:165 Resp: 24676
Ion Ratio Lower Upper
165 100
63 1.1 37.7 56.5#
89 1.9 54.2 81.4#
182 0.0 2.2 3.2#



#58
Fluorene
Concen: 3.219 ng
RT: 10.375 min Scan# 1409
Delta R.T. -0.011 min
Lab File: BF134964.D
Acq: 28 Aug 2023 12:48

Tgt Ion:166 Resp: 38948
Ion Ratio Lower Upper
166 100
165 96.9 78.5 117.7
167 13.1 11.0 16.6





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.322 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF134964.D

Acq: 28 Aug 2023 12:48

Instrument :

BNA_F

ClientSampleId :

TP-22(3-4)

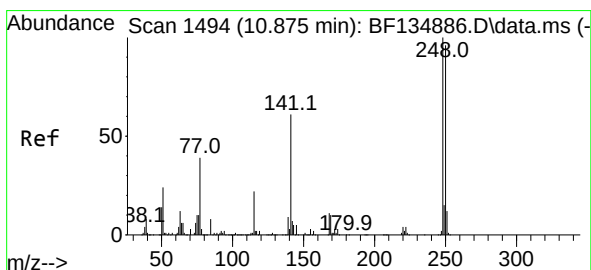
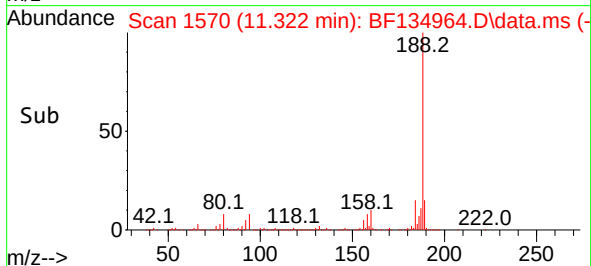
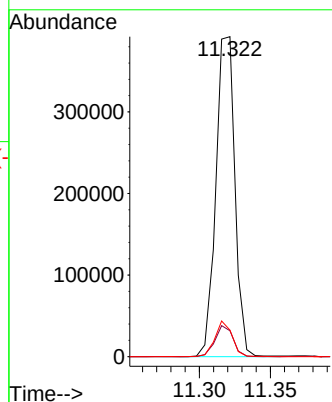
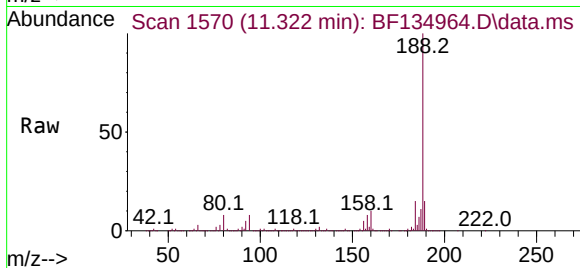
Tgt Ion:188 Resp: 366920

Ion Ratio Lower Upper

188 100

94 8.1 7.5 11.3

80 8.3 7.8 11.6



#67

4-Bromophenyl-phenylether

Concen: 3.009 ng

RT: 10.616 min Scan# 1450

Delta R.T. -0.259 min

Lab File: BF134964.D

Acq: 28 Aug 2023 12:48

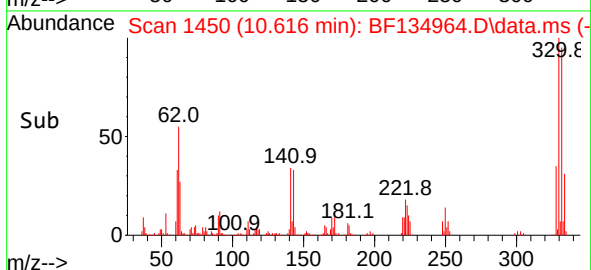
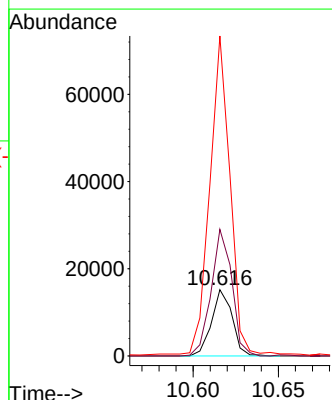
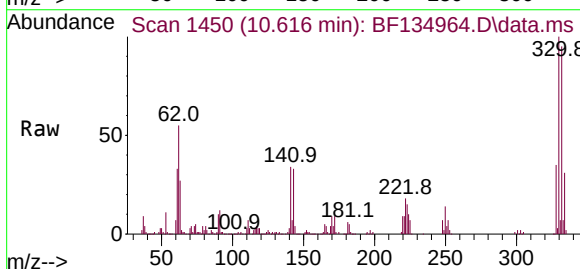
Tgt Ion:248 Resp: 12737

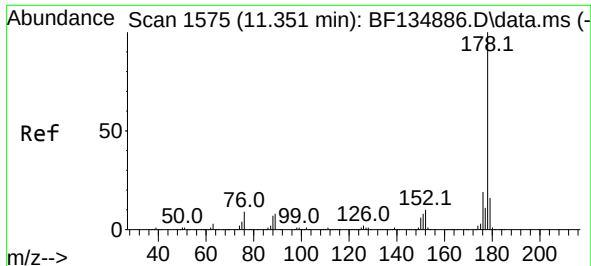
Ion Ratio Lower Upper

248 100

250 191.3 77.1 115.7#

141 483.8 49.0 73.4#

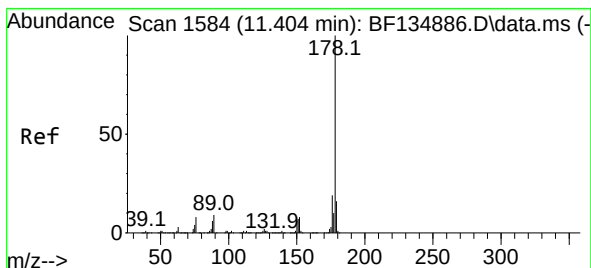
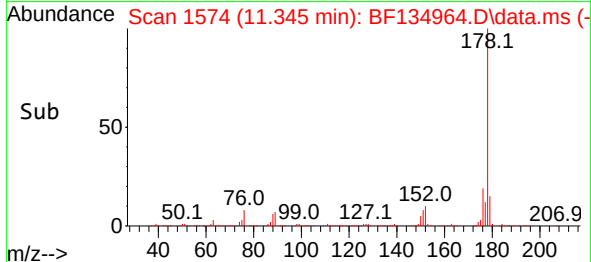
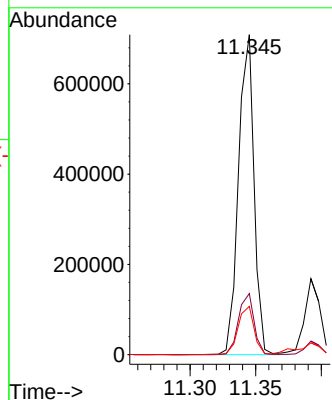
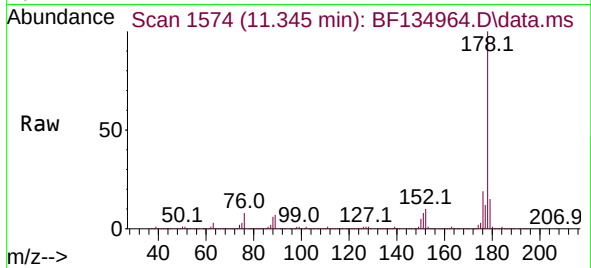




#71
Phenanthrene
Concen: 30.229 ng
RT: 11.345 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF134964.D
Acq: 28 Aug 2023 12:48

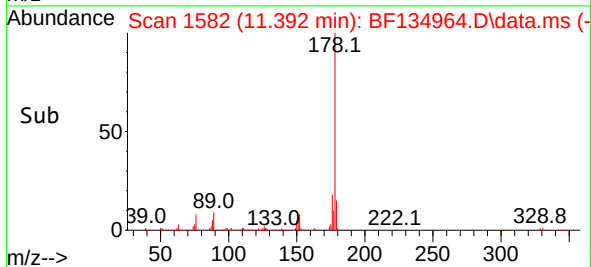
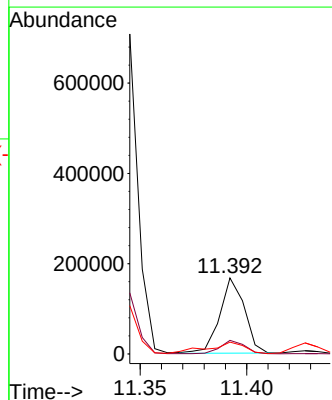
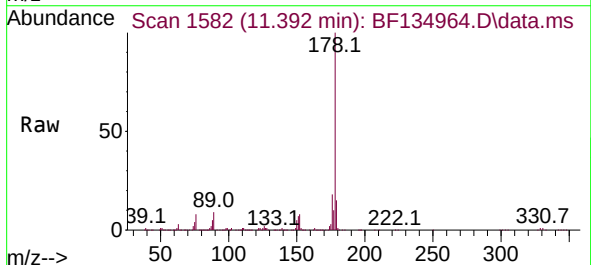
Instrument :
BNA_F
ClientSampleId :
TP-22(3-4)

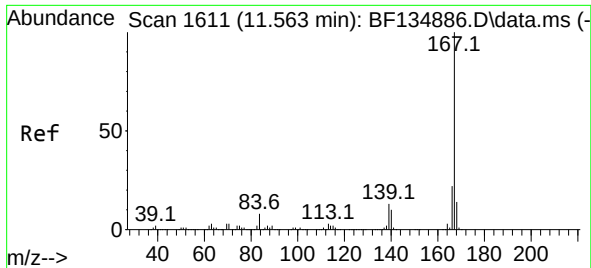
Tgt Ion:178 Resp: 581228
Ion Ratio Lower Upper
178 100
176 19.1 15.5 23.3
179 15.1 12.6 19.0



#72
Anthracene
Concen: 6.833 ng
RT: 11.392 min Scan# 1582
Delta R.T. -0.012 min
Lab File: BF134964.D
Acq: 28 Aug 2023 12:48

Tgt Ion:178 Resp: 134619
Ion Ratio Lower Upper
178 100
176 17.9 15.0 22.6
179 15.5 12.5 18.7

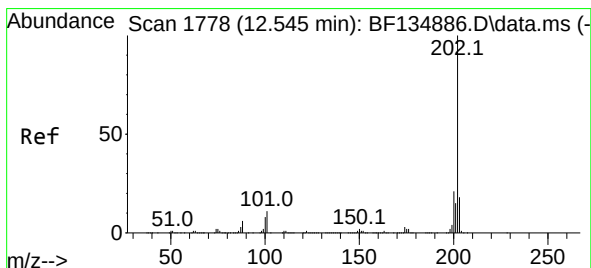
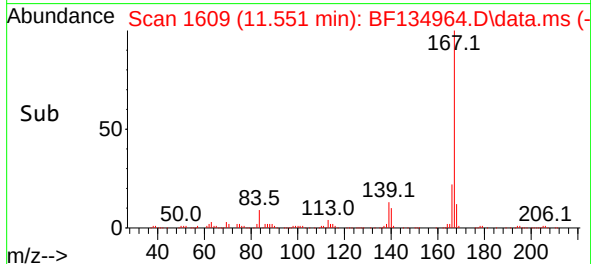
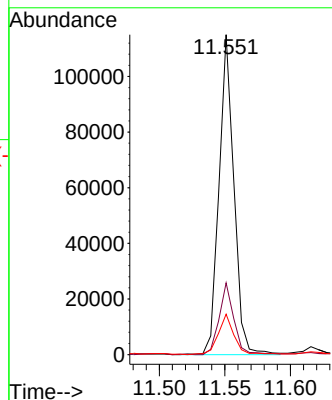
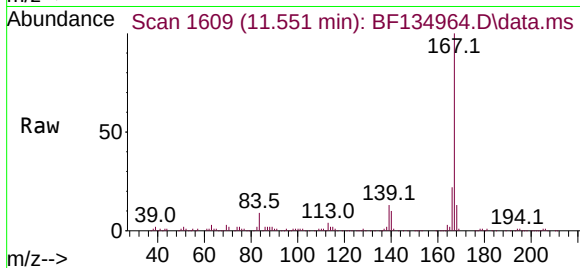




#73
 Carbazole
 Concen: 5.624 ng
 RT: 11.551 min Scan# 1609
 Delta R.T. -0.012 min
 Lab File: BF134964.D
 Acq: 28 Aug 2023 12:48

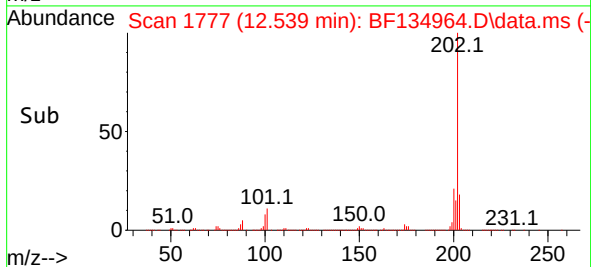
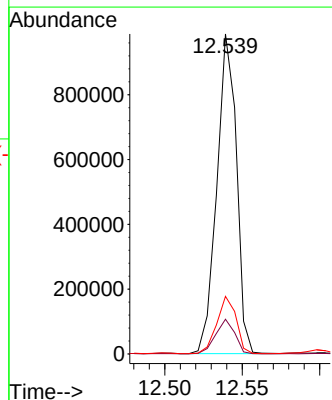
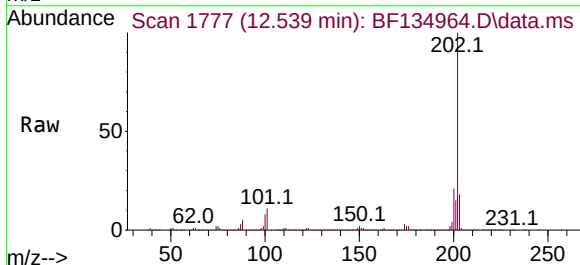
Instrument :
 BNA_F
 ClientSampleId :
 TP-22(3-4)

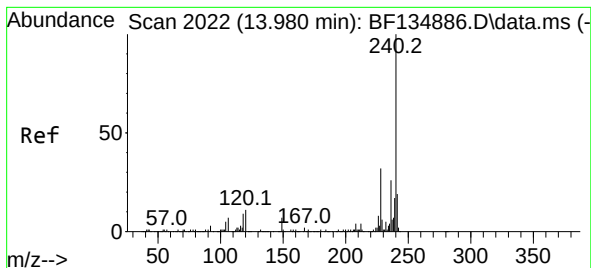
Tgt Ion:167 Resp: 91289
 Ion Ratio Lower Upper
 167 100
 166 22.4 17.4 26.2
 139 12.6 10.4 15.6



#75
 Fluoranthene
 Concen: 47.879 ng
 RT: 12.539 min Scan# 1777
 Delta R.T. -0.006 min
 Lab File: BF134964.D
 Acq: 28 Aug 2023 12:48

Tgt Ion:202 Resp: 872260
 Ion Ratio Lower Upper
 202 100
 101 10.8 0.0 30.5
 203 18.0 0.0 37.8





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.974 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF134964.D

Acq: 28 Aug 2023 12:48

Instrument :

BNA_F

ClientSampleId :

TP-22(3-4)

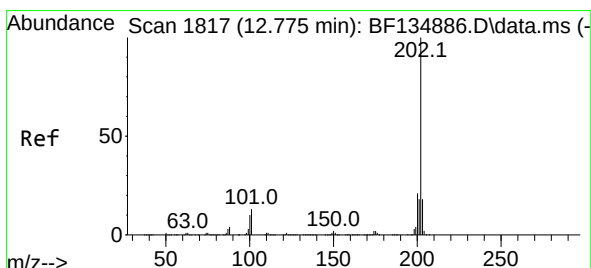
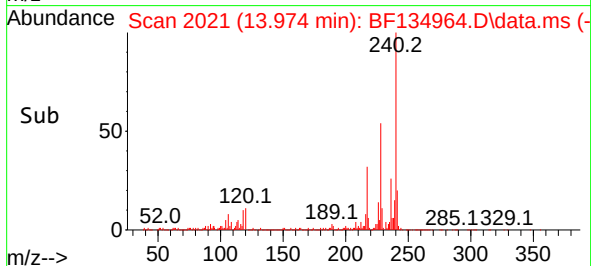
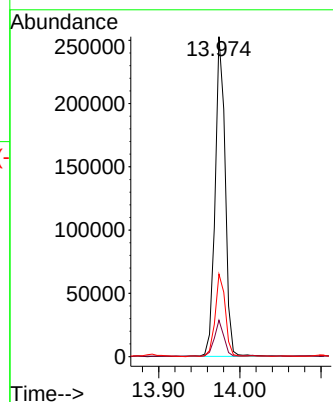
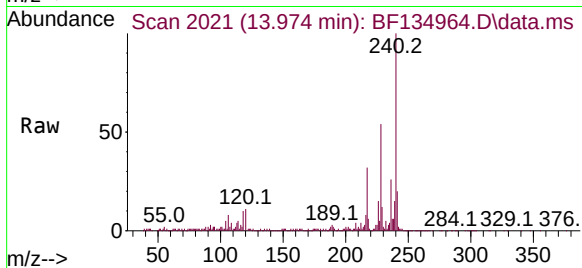
Tgt Ion:240 Resp: 218613

Ion Ratio Lower Upper

240 100

120 11.4 8.6 12.8

236 25.8 20.6 31.0



#78

Pyrene

Concen: 32.569 ng

RT: 12.769 min Scan# 1816

Delta R.T. -0.006 min

Lab File: BF134964.D

Acq: 28 Aug 2023 12:48

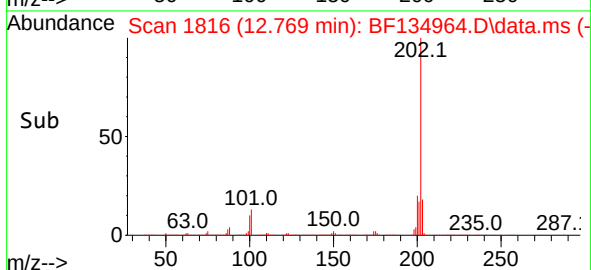
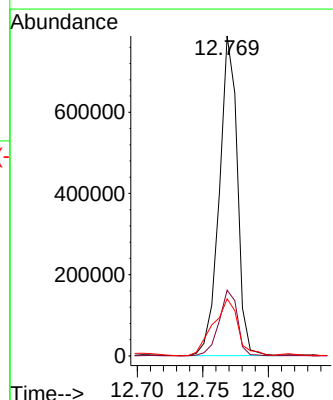
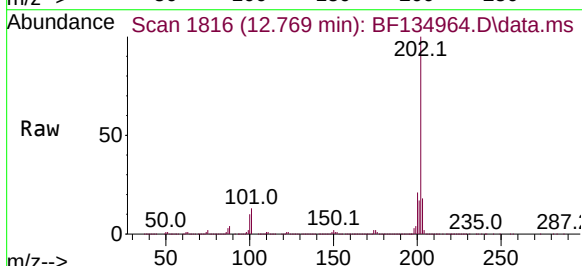
Tgt Ion:202 Resp: 754904

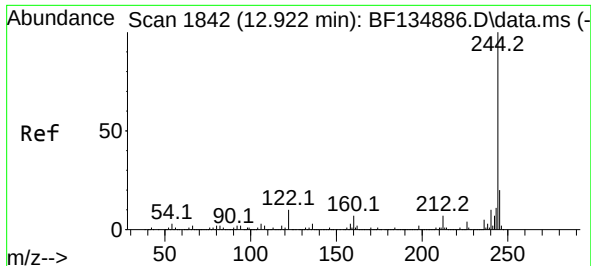
Ion Ratio Lower Upper

202 100

200 20.5 17.1 25.7

203 17.8 14.2 21.2

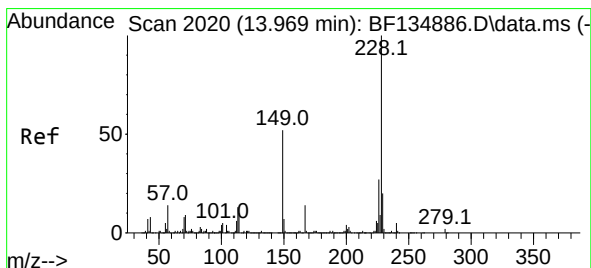
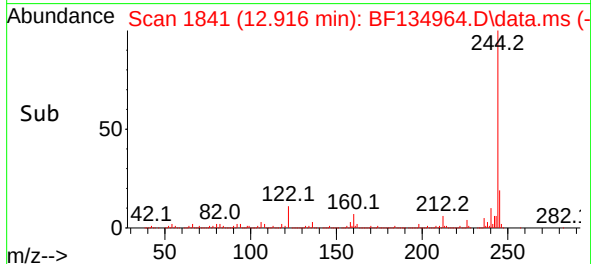
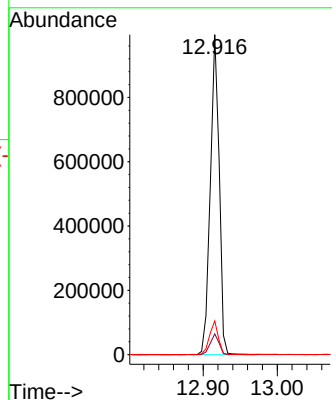
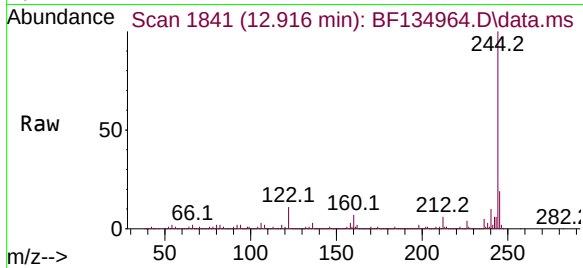




#79
 Terphenyl-d14
 Concen: 51.838 ng
 RT: 12.916 min Scan# 1842
 Delta R.T. -0.006 min
 Lab File: BF134964.D
 Acq: 28 Aug 2023 12:48

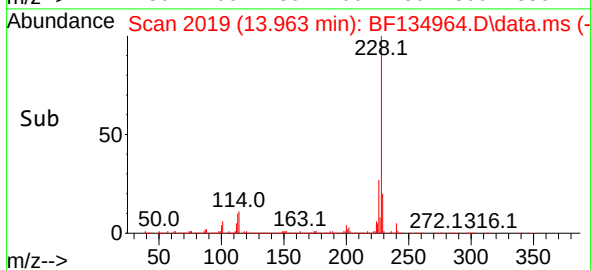
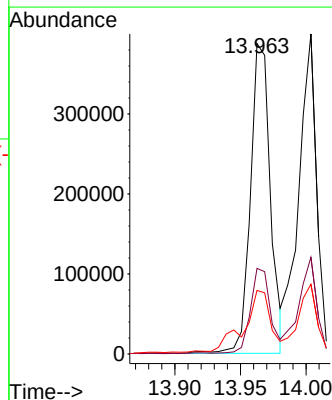
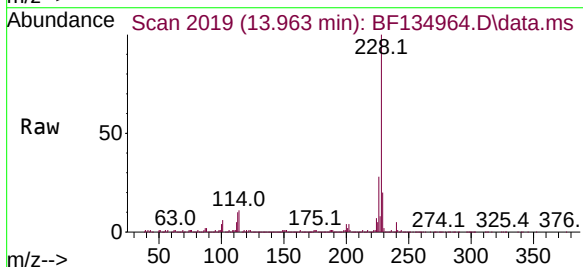
Instrument :
 BNA_F
 ClientSampleId :
 TP-22(3-4)

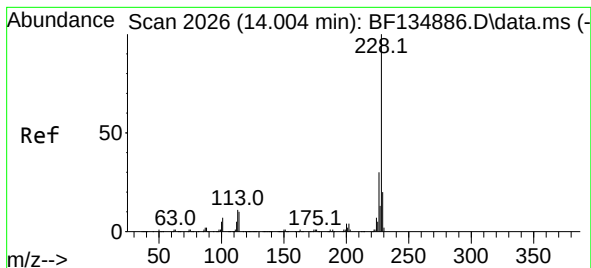
Tgt Ion:244 Resp: 823940
 Ion Ratio Lower Upper
 244 100
 212 6.5 5.4 8.0
 122 10.5 8.2 12.4



#81
 Benzo(a)anthracene
 Concen: 27.455 ng
 RT: 13.963 min Scan# 2019
 Delta R.T. -0.006 min
 Lab File: BF134964.D
 Acq: 28 Aug 2023 12:48

Tgt Ion:228 Resp: 409505
 Ion Ratio Lower Upper
 228 100
 226 27.6 21.8 32.6
 229 20.5 15.6 23.4





#83

Chrysene

Concen: 25.993 ng

RT: 14.004 min Scan# 20

Delta R.T. -0.000 min

Lab File: BF134964.D

Acq: 28 Aug 2023 12:48

Instrument :

BNA_F

ClientSampleId :

TP-22(3-4)

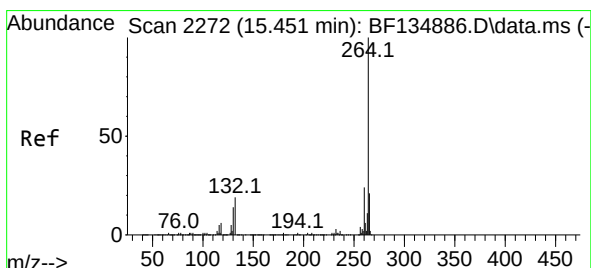
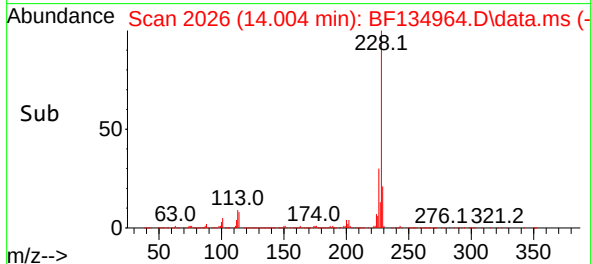
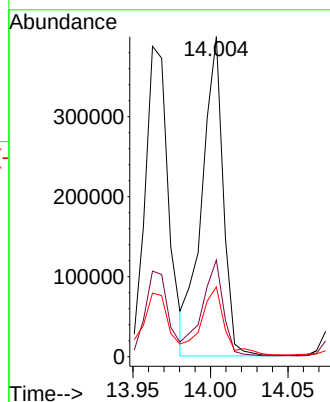
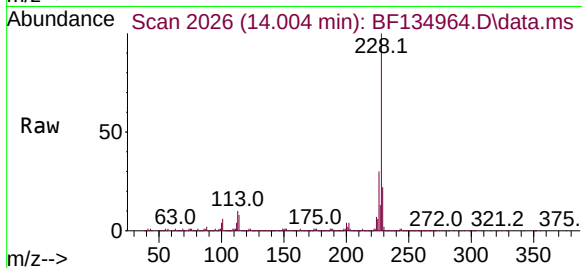
Tgt Ion:228 Resp: 382531

Ion Ratio Lower Upper

228 100

226 30.2 24.2 36.2

229 21.8 16.0 24.0



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.451 min Scan# 2272

Delta R.T. -0.000 min

Lab File: BF134964.D

Acq: 28 Aug 2023 12:48

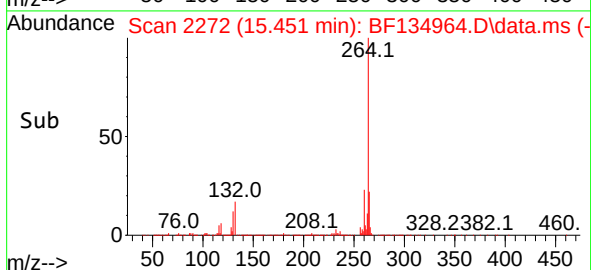
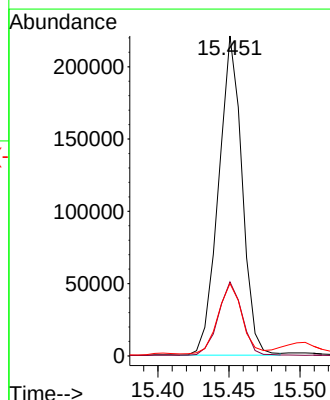
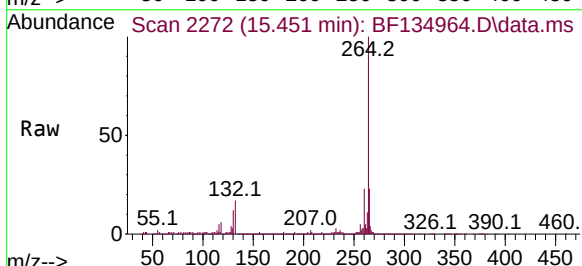
Tgt Ion:264 Resp: 254633

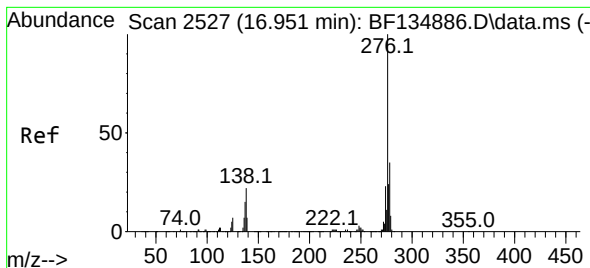
Ion Ratio Lower Upper

264 100

260 23.1 19.0 28.6

265 22.6 17.1 25.7





#87

Indeno(1,2,3-cd)pyrene

Concen: 15.053 ng

RT: 16.945 min Scan# 2199

Delta R.T. -0.006 min

Lab File: BF134964.D

Acq: 28 Aug 2023 12:48

Instrument :

BNA_F

ClientSampleId :

TP-22(3-4)

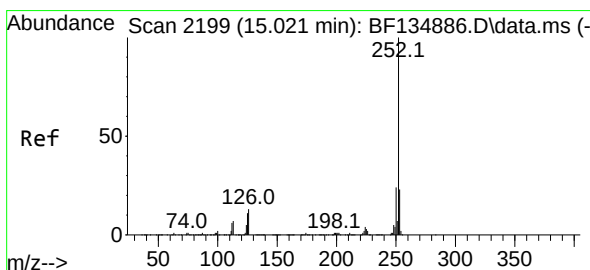
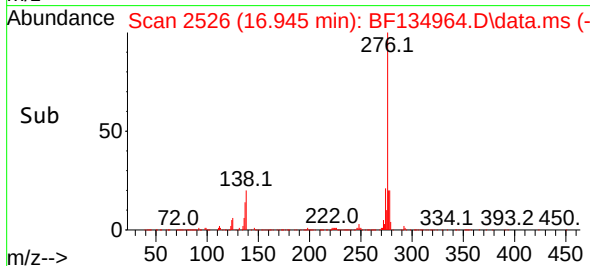
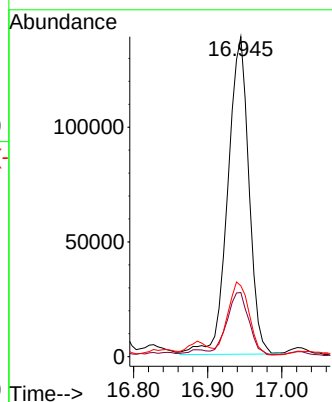
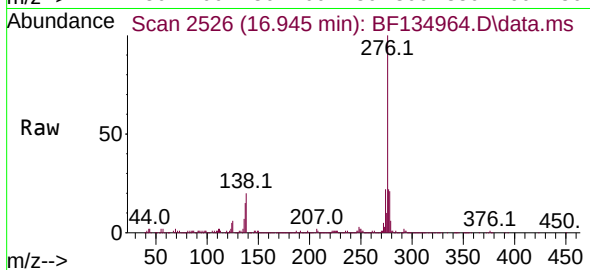
Tgt Ion:276 Resp: 273976

Ion Ratio Lower Upper

276 100

138 20.3 19.7 29.5

277 22.9 20.1 30.1



#88

Benzo(b)fluoranthene

Concen: 51.417 ng

RT: 15.021 min Scan# 2199

Delta R.T. -0.000 min

Lab File: BF134964.D

Acq: 28 Aug 2023 12:48

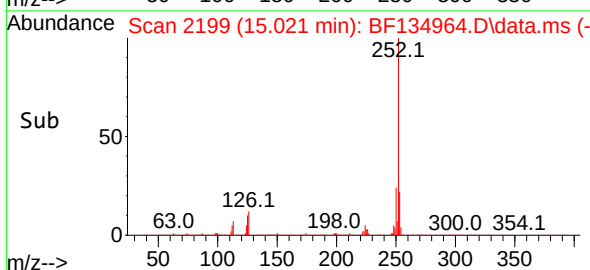
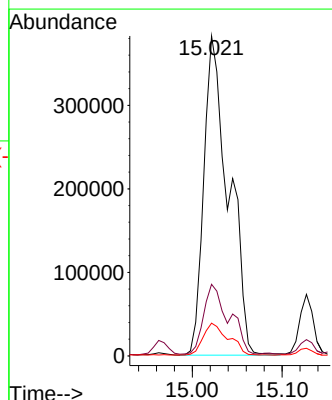
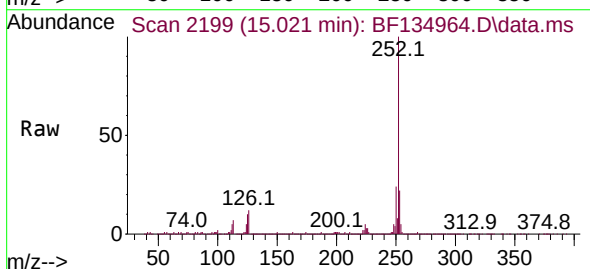
Tgt Ion:252 Resp: 738664

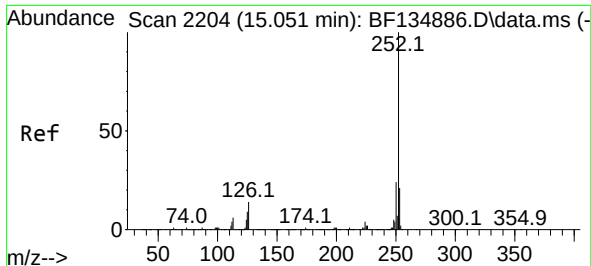
Ion Ratio Lower Upper

252 100

253 22.4 18.1 27.1

125 10.2 8.4 12.6





#89

Benzo(k)fluoranthene

Concen: 52.360 ng

RT: 15.021 min Scan# 21

Delta R.T. -0.030 min

Lab File: BF134964.D

Acq: 28 Aug 2023 12:48

Instrument :

BNA_F

ClientSampleId :

TP-22(3-4)

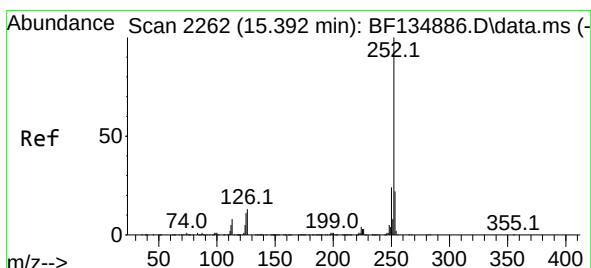
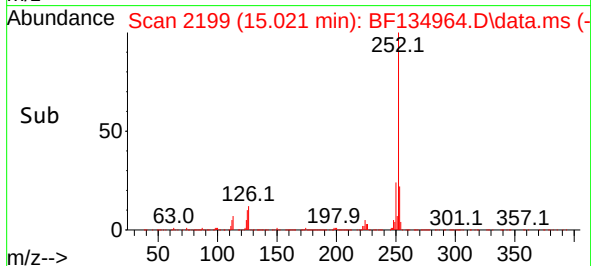
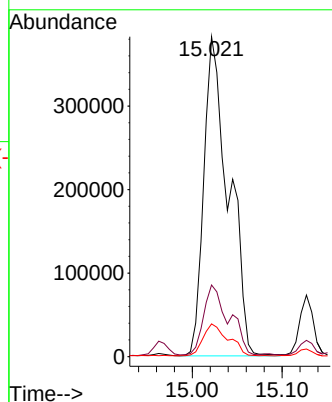
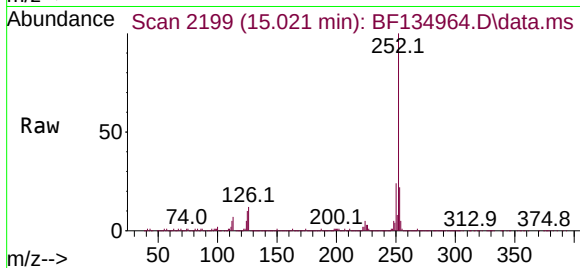
Tgt Ion:252 Resp: 738664

Ion Ratio Lower Upper

252 100

253 22.4 17.1 25.7

125 10.2 8.0 12.0



#90

Benzo(a)pyrene

Concen: 28.891 ng

RT: 15.392 min Scan# 2262

Delta R.T. -0.000 min

Lab File: BF134964.D

Acq: 28 Aug 2023 12:48

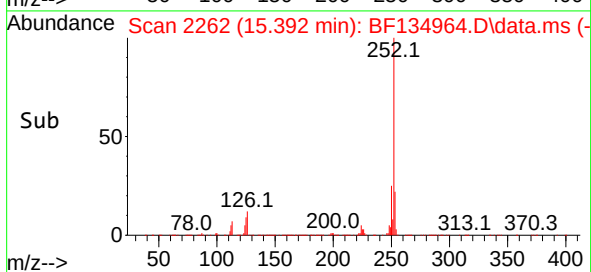
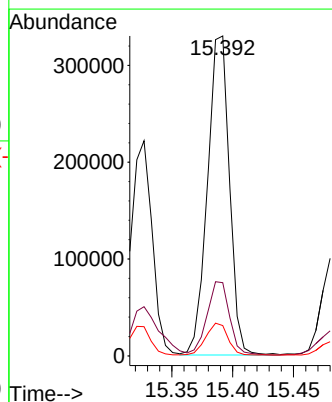
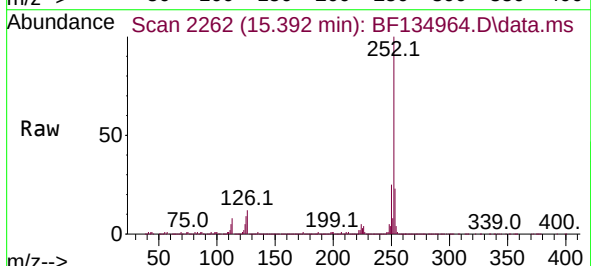
Tgt Ion:252 Resp: 414335

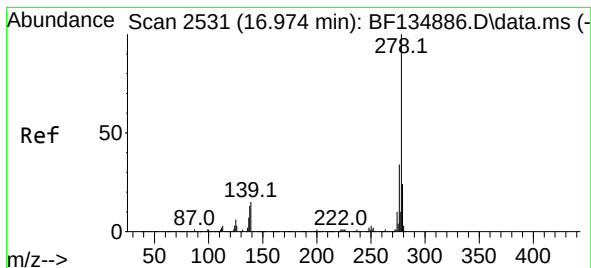
Ion Ratio Lower Upper

252 100

253 22.9 17.6 26.4

125 9.5 8.4 12.6





#91

Dibenzo(a,h)anthracene

Concen: 3.820 ng

RT: 17.127 min Scan# 21

Delta R.T. 0.153 min

Lab File: BF134964.D

Acq: 28 Aug 2023 12:48

Instrument :

BNA_F

ClientSampleId :

TP-22(3-4)

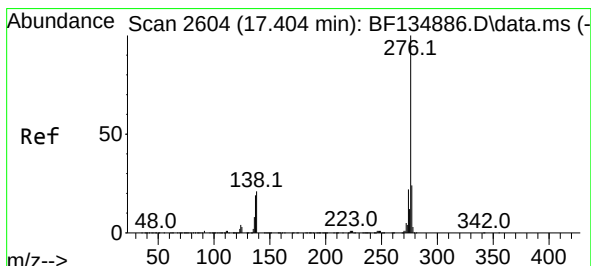
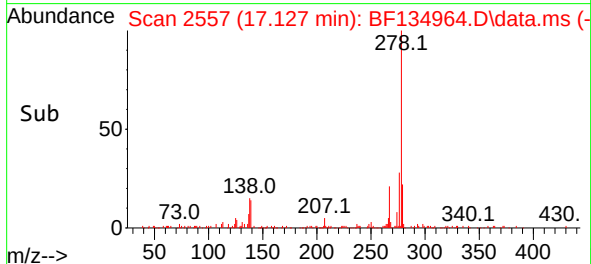
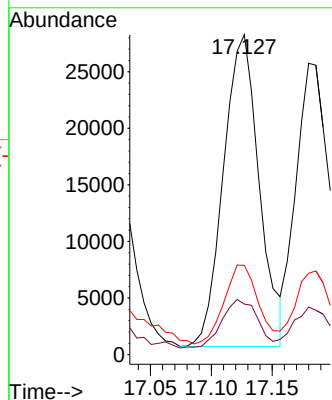
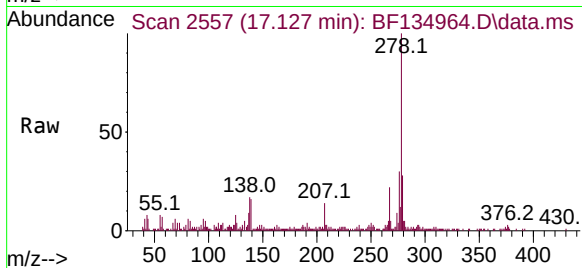
Tgt Ion:278 Resp: 56251

Ion Ratio Lower Upper

278 100

139 15.8 12.2 18.4

279 27.9 19.1 28.7



#92

Benzo(g,h,i)perylene

Concen: 16.477 ng

RT: 17.392 min Scan# 2602

Delta R.T. -0.012 min

Lab File: BF134964.D

Acq: 28 Aug 2023 12:48

Tgt Ion:276 Resp: 248403

Ion Ratio Lower Upper

276 100

277 23.5 19.2 28.8

138 21.5 17.0 25.6

