

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011223\
 Data File : BF132049.D
 Acq On : 12 Jan 2023 19:18
 Operator : CG\JU
 Sample : 01124-04
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 MH-4

Quant Time: Jan 13 01:36:42 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF010923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 12 23:59:08 2023
 Response via : Initial Calibration

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

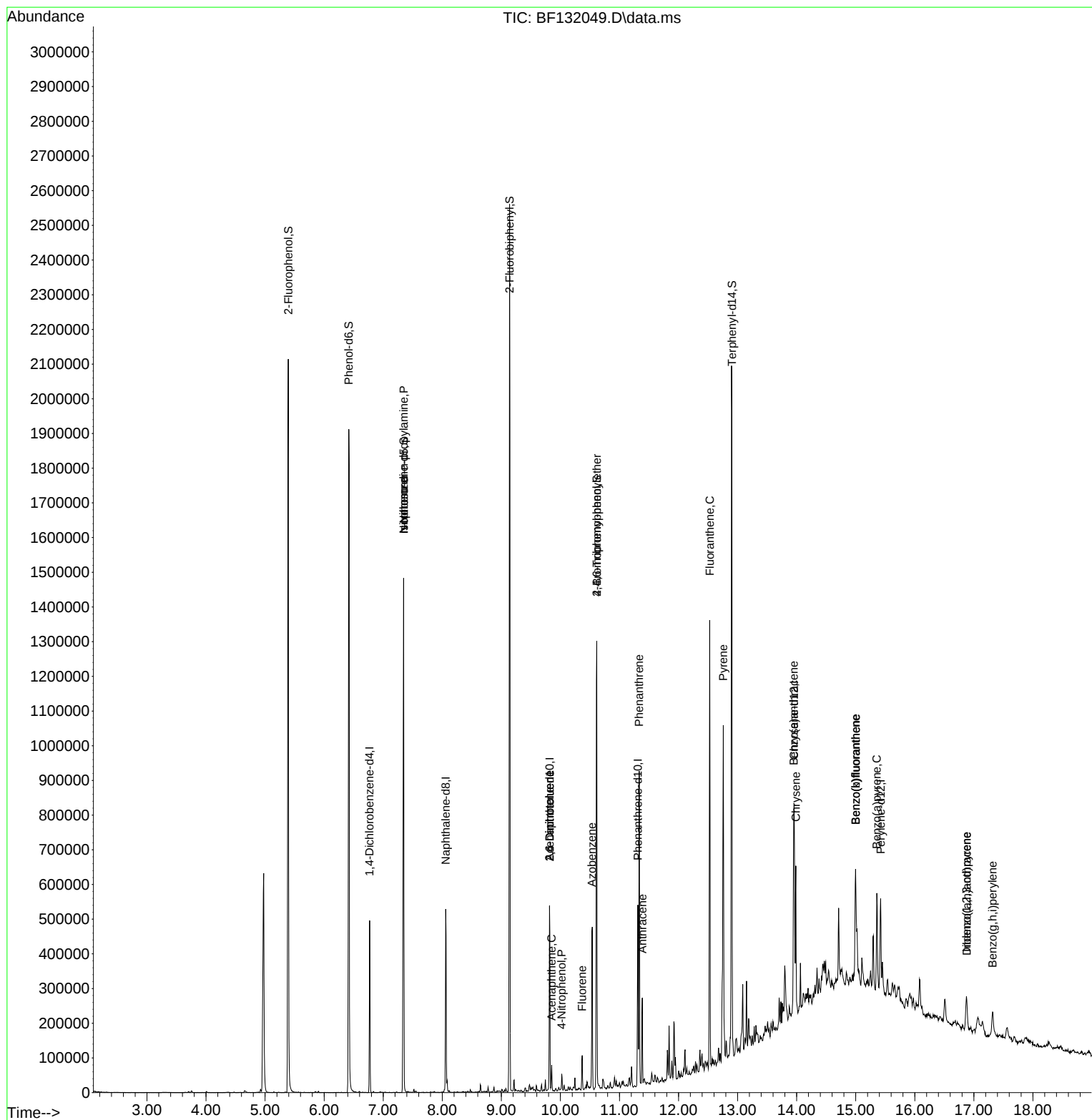
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.769	152	62553	20.000	ng	0.00
21) Naphthalene-d8	8.057	136	209148	20.000	ng	0.00
39) Acenaphthene-d10	9.816	164	102341	20.000	ng	-0.01
64) Phenanthrene-d10	11.310	188	171834	20.000	ng	0.00
76) Chrysene-d12	13.957	240	133251	20.000	ng	# 0.00
86) Perylene-d12	15.421	264	108571	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.393	112	539820	142.200	ng	0.01
7) Phenol-d6	6.416	99	673686	133.846	ng	0.00
23) Nitrobenzene-d5	7.345	82	475318	94.322	ng	0.00
42) 2,4,6-Tribromophenol	10.616	330	136232	115.775	ng	0.00
45) 2-Fluorobiphenyl	9.139	172	746122	98.420	ng	0.00
79) Terphenyl-d14	12.904	244	702360	75.547	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.345	70	67961	18.665	ng	# 75
25) Isophorone	7.345	82	475311	50.489	ng	# 69
51) 2,6-Dinitrotoluene	9.816	165	13741	8.190	ng	# 22
52) Acenaphthene	9.851	154	13664	2.393	ng	96
56) 4-Nitrophenol	10.022	139	4858	5.298	ng	# 1
57) 2,4-Dinitrotoluene	9.816	165	13741	6.126	ng	# 13
58) Fluorene	10.369	166	25602	3.560	ng	95
63) Azobenzene	10.533	77	89788	10.790	ng	# 5
67) 4-Bromophenyl-phenylether	10.616	248	9902	4.606	ng	# 1
71) Phenanthrene	11.333	178	290459	32.425	ng	99
72) Anthracene	11.386	178	86124	9.339	ng	99
75) Fluoranthene	12.527	202	469041	46.558	ng	100
78) Pyrene	12.757	202	383157	31.527	ng	99
81) Benzo(a)anthracene	13.951	228	193688	19.979	ng	99
83) Chrysene	13.986	228	165251	18.240	ng	98
87) Indeno(1,2,3-cd)pyrene	16.874	276	62190	9.340	ng	99
88) Benzo(b)fluoranthene	14.998	252	229990	30.885	ng	96
89) Benzo(k)fluoranthene	14.998	252	229990	30.947	ng	# 95
90) Benzo(a)pyrene	15.357	252	123061	18.342	ng	# 95
91) Dibenzo(a,h)anthracene	16.880	278	15108	2.707	ng	# 91
92) Benzo(g,h,i)perylene	17.315	276	58548	12.601	ng	96

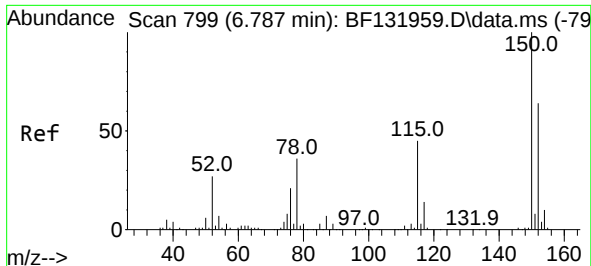
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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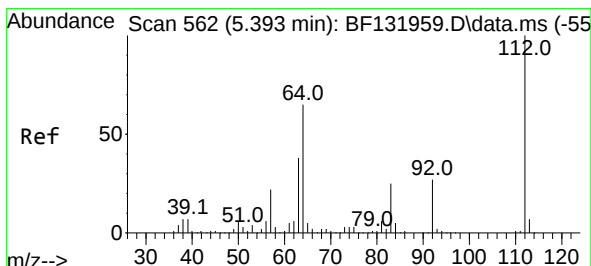
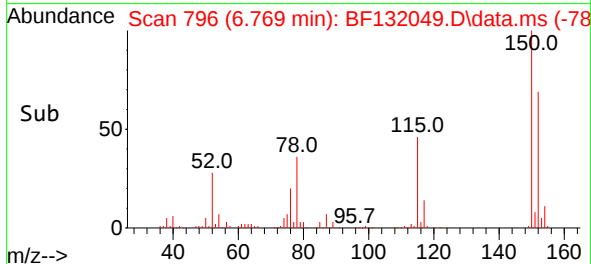
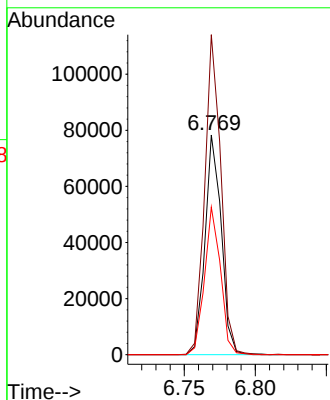
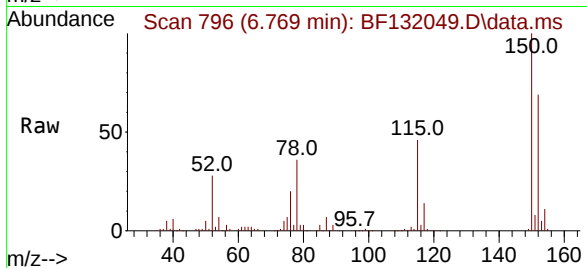




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.769 min Scan# 799
 Delta R.T. -0.006 min
 Lab File: BF132049.D
 Acq: 12 Jan 2023 19:18

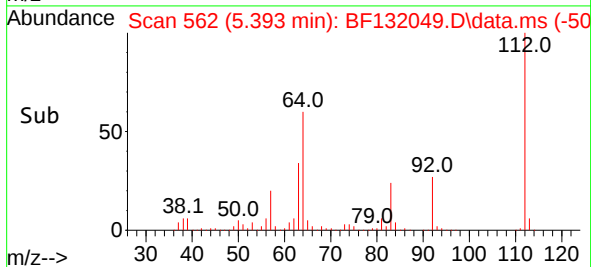
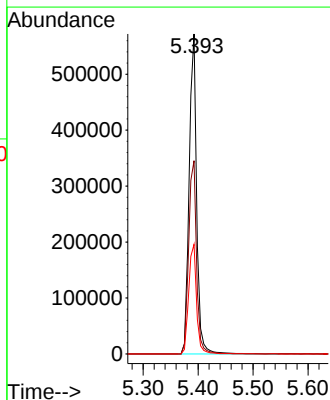
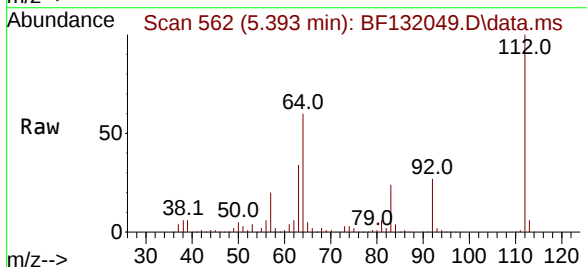
Instrument :
 BNA_F
 ClientSampleId :
 MH-4

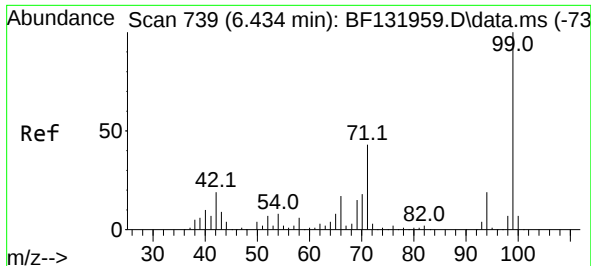
Tgt Ion:152 Resp: 62553
 Ion Ratio Lower Upper
 152 100
 150 145.7 124.6 186.8
 115 67.2 55.6 83.4



#5
 2-Fluorophenol
 Concen: 142.200 ng
 RT: 5.393 min Scan# 562
 Delta R.T. 0.012 min
 Lab File: BF132049.D
 Acq: 12 Jan 2023 19:18

Tgt Ion:112 Resp: 539820
 Ion Ratio Lower Upper
 112 100
 64 60.4 51.9 77.9
 63 34.3 30.2 45.2

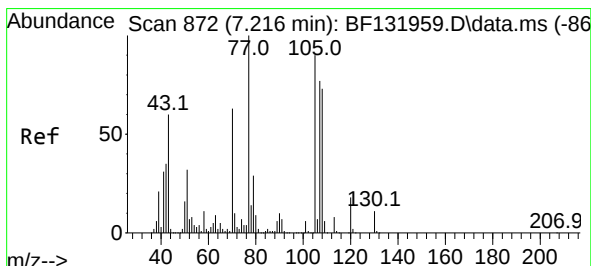
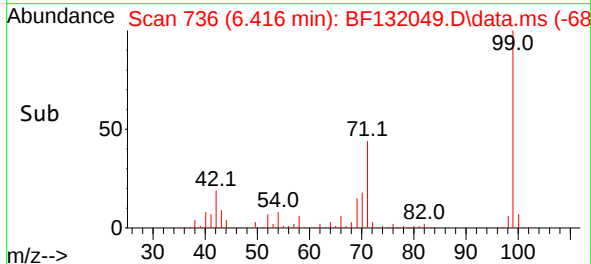
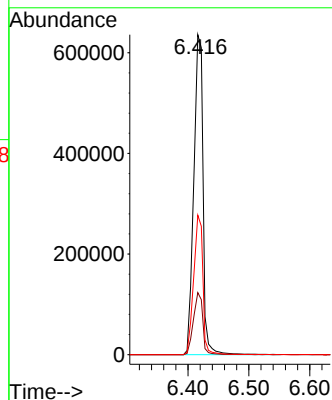
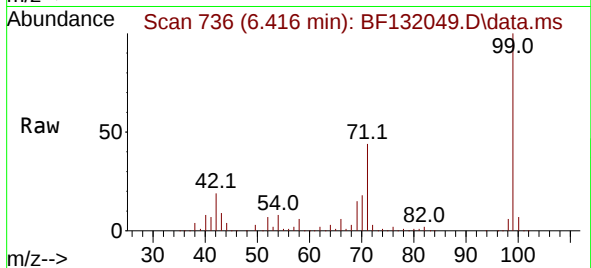




#7
Phenol-d6
Concen: 133.846 ng
RT: 6.416 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF132049.D
Acq: 12 Jan 2023 19:18

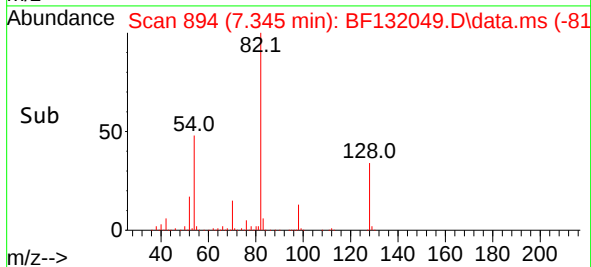
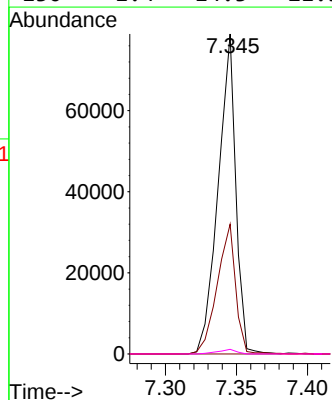
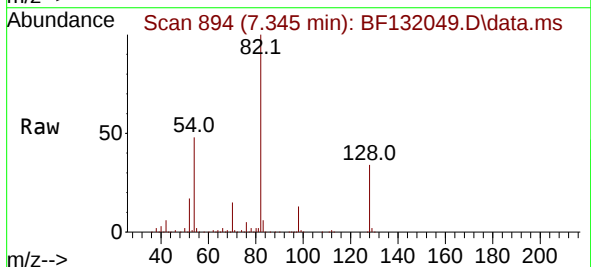
Instrument :
BNA_F
ClientSampleId :
MH-4

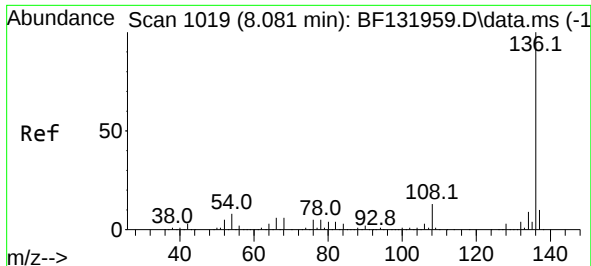
Tgt Ion: 99 Resp: 673686
Ion Ratio Lower Upper
99 100
42 19.4 15.4 23.2
71 43.6 34.6 51.8



#19
n-Nitroso-di-n-propylamine
Concen: 18.665 ng
RT: 7.345 min Scan# 894
Delta R.T. 0.147 min
Lab File: BF132049.D
Acq: 12 Jan 2023 19:18

Tgt Ion: 70 Resp: 67961
Ion Ratio Lower Upper
70 100
42 40.6 44.3 66.5#
101 0.0 7.5 11.3#
130 1.4 14.3 21.5#

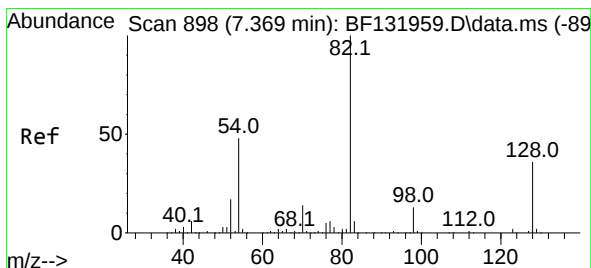
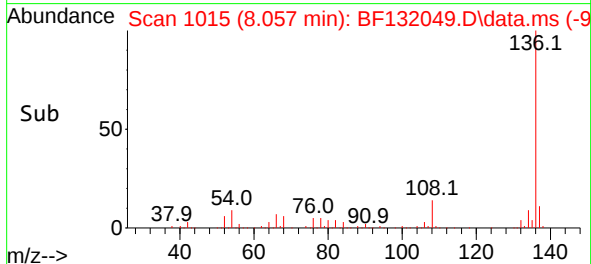
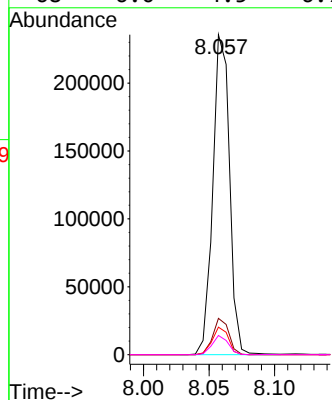
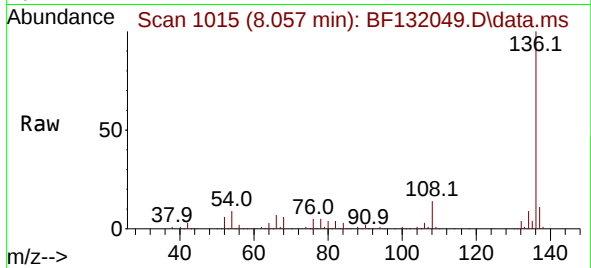




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.057 min Scan# 1019
Delta R.T. -0.006 min
Lab File: BF132049.D
Acq: 12 Jan 2023 19:18

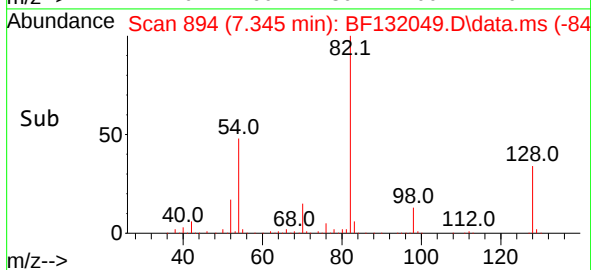
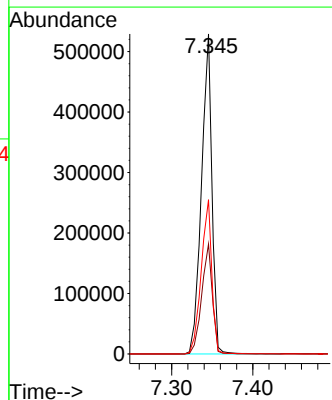
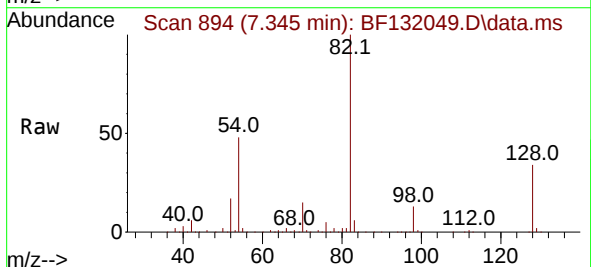
Instrument :
BNA_F
ClientSampleId :
MH-4

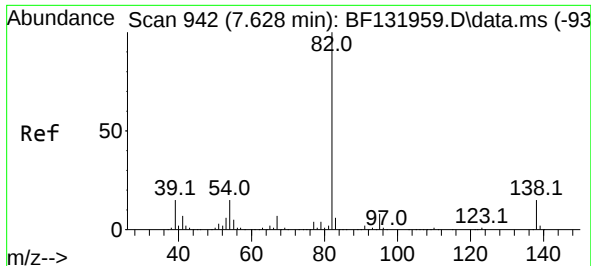
Tgt Ion:136	Resp: 209148
Ion Ratio	Lower Upper
136	100
137	11.4 8.2 12.2
54	8.6 6.6 9.8
68	6.0 4.5 6.7



#23
Nitrobenzene-d5
Concen: 94.322 ng
RT: 7.345 min Scan# 894
Delta R.T. -0.006 min
Lab File: BF132049.D
Acq: 12 Jan 2023 19:18

Tgt Ion: 82	Resp: 475318
Ion Ratio	Lower Upper
82	100
128	34.4 28.7 43.1
54	48.2 38.1 57.1

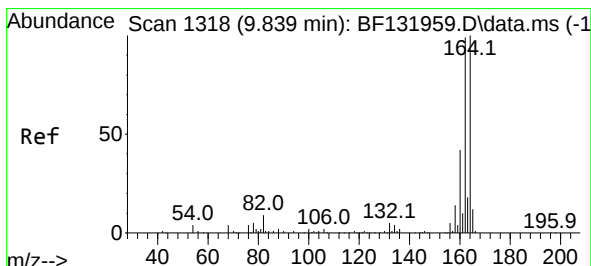
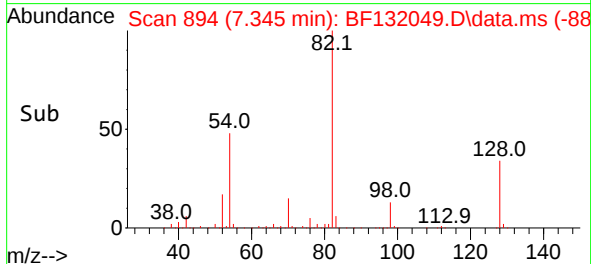
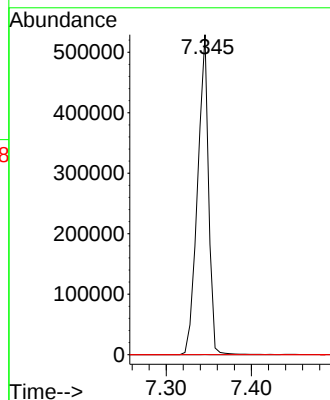
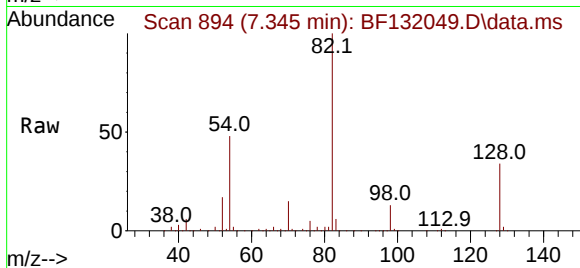




#25
Isophorone
Concen: 50.489 ng
RT: 7.345 min Scan# 894
Delta R.T. -0.265 min
Lab File: BF132049.D
Acq: 12 Jan 2023 19:18

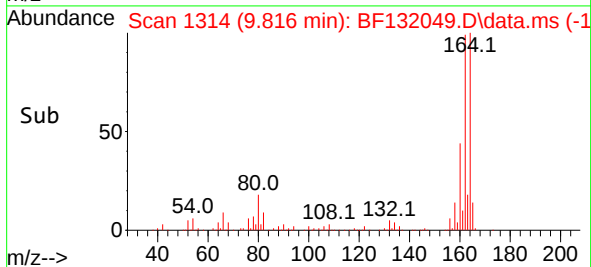
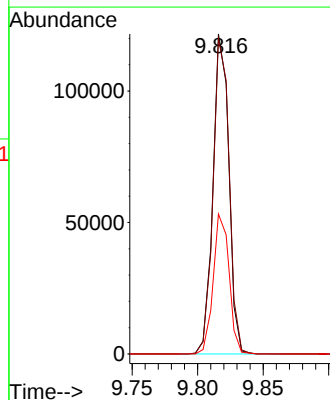
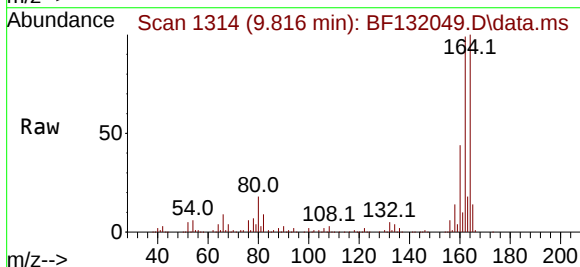
Instrument :
BNA_F
ClientSampleId :
MH-4

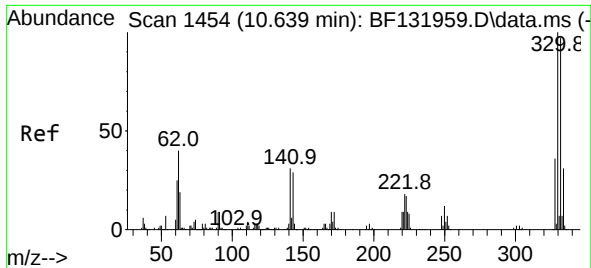
Tgt Ion: 82 Resp: 475311
Ion Ratio Lower Upper
82 100
95 0.0 6.5 9.7#
138 0.0 11.9 17.9#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.816 min Scan# 1314
Delta R.T. -0.012 min
Lab File: BF132049.D
Acq: 12 Jan 2023 19:18

Tgt Ion:164 Resp: 102341
Ion Ratio Lower Upper
164 100
162 98.6 79.4 119.0
160 43.7 33.9 50.9





#42

2,4,6-Tribromophenol

Concen: 115.775 ng

RT: 10.616 min Scan# 1454

Delta R.T. -0.006 min

Lab File: BF132049.D

Acq: 12 Jan 2023 19:18

Instrument :

BNA_F

ClientSampleId :

MH-4

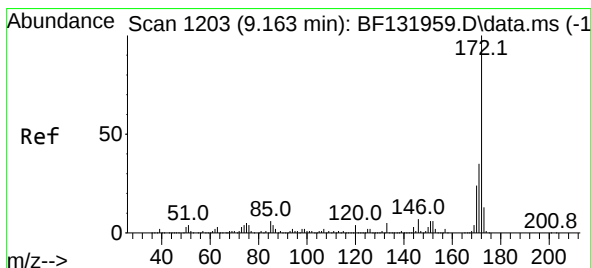
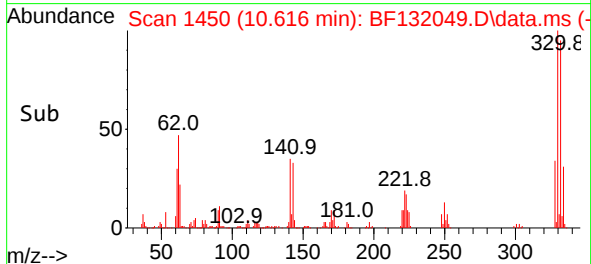
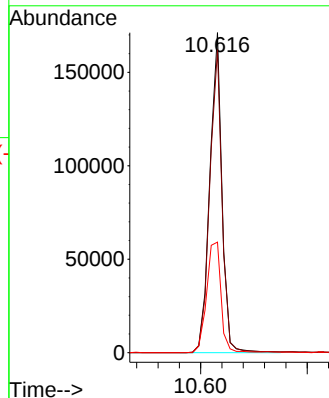
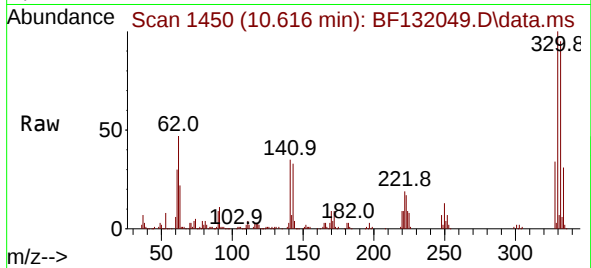
Tgt Ion:330 Resp: 136232

Ion Ratio Lower Upper

330 100

332 96.4 76.9 115.3

141 40.9 31.3 46.9



#45

2-Fluorobiphenyl

Concen: 98.420 ng

RT: 9.139 min Scan# 1199

Delta R.T. -0.006 min

Lab File: BF132049.D

Acq: 12 Jan 2023 19:18

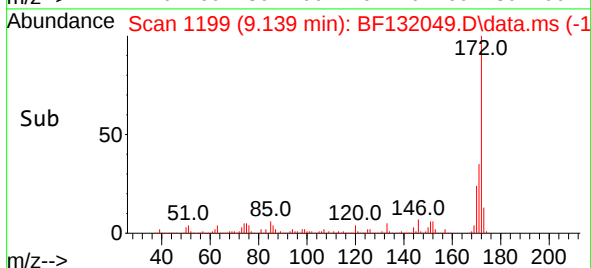
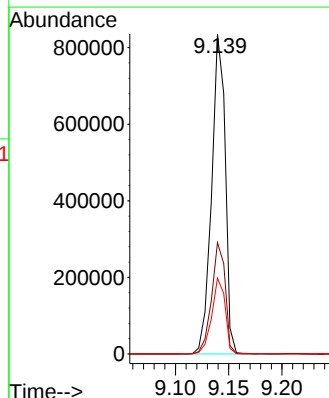
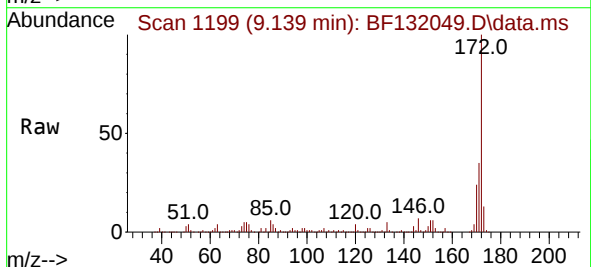
Tgt Ion:172 Resp: 746122

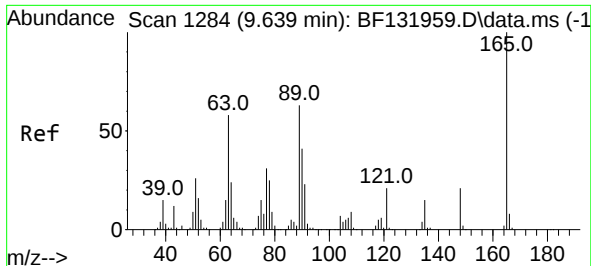
Ion Ratio Lower Upper

172 100

171 34.8 28.0 42.0

170 23.7 18.9 28.3





#51

2,6-Dinitrotoluene

Concen: 8.190 ng

RT: 9.816 min Scan# 11

Delta R.T. 0.194 min

Lab File: BF132049.D

Acq: 12 Jan 2023 19:18

Instrument :

BNA_F

ClientSampleId :

MH-4

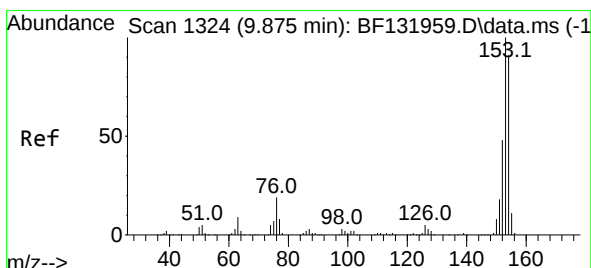
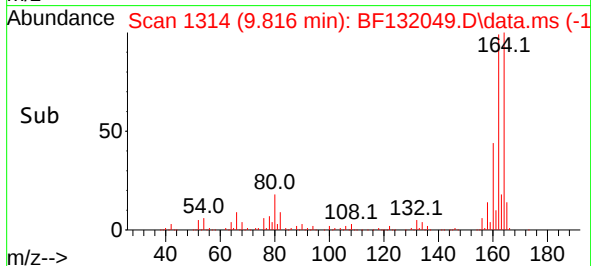
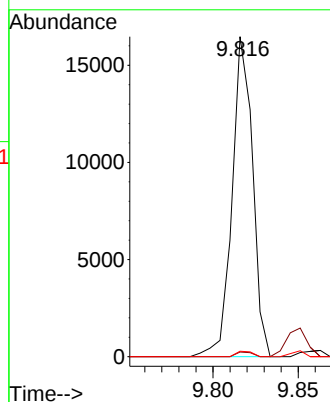
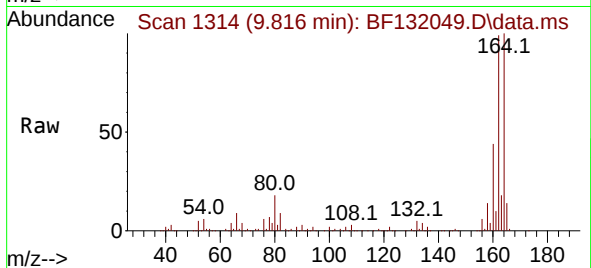
Tgt Ion:165 Resp: 13741

Ion Ratio Lower Upper

165 100

63 1.5 47.4 71.0#

89 1.7 50.2 75.2#



#52

Acenaphthene

Concen: 2.393 ng

RT: 9.851 min Scan# 1320

Delta R.T. -0.006 min

Lab File: BF132049.D

Acq: 12 Jan 2023 19:18

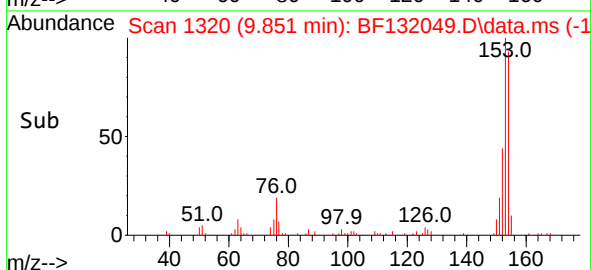
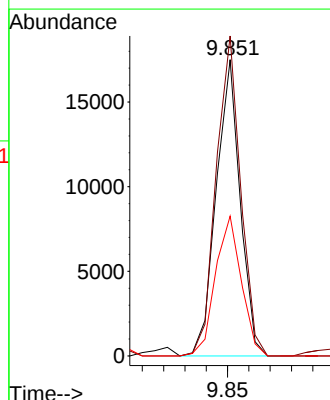
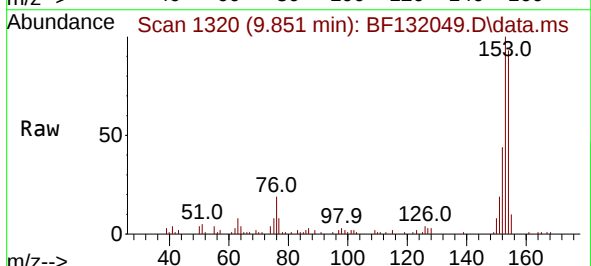
Tgt Ion:154 Resp: 13664

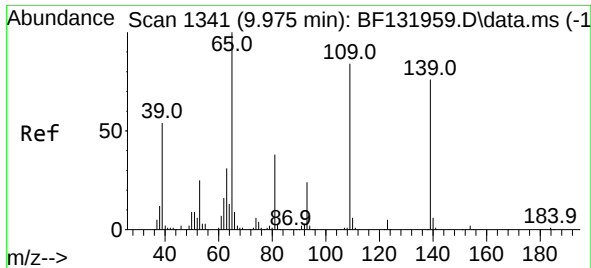
Ion Ratio Lower Upper

154 100

153 108.0 87.7 131.5

152 47.2 42.2 63.2

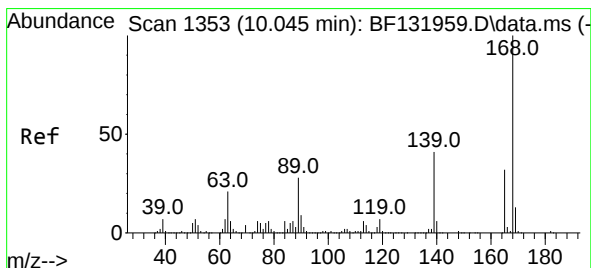
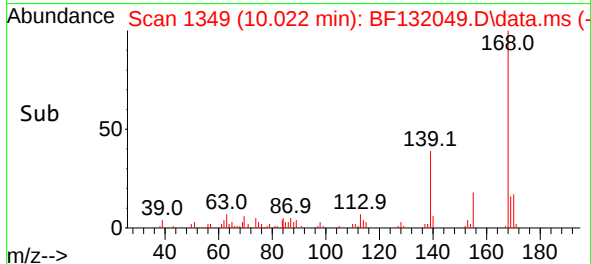
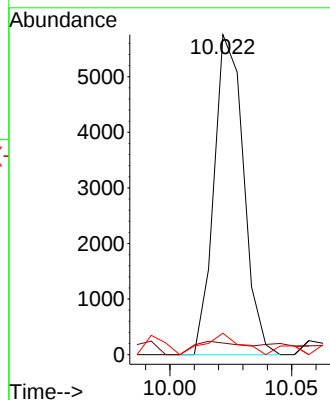
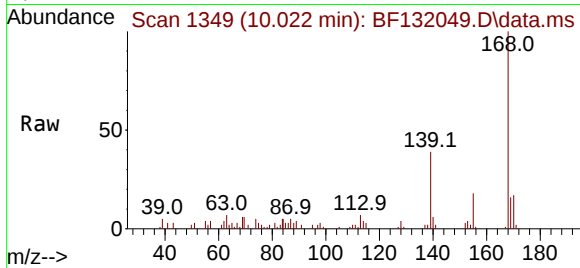




#56
4-Nitrophenol
Concen: 5.298 ng
RT: 10.022 min Scan# 11
Delta R.T. 0.053 min
Lab File: BF132049.D
Acq: 12 Jan 2023 19:18

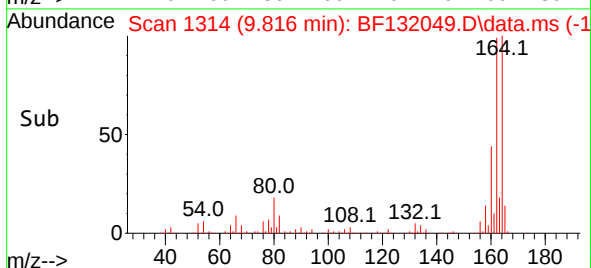
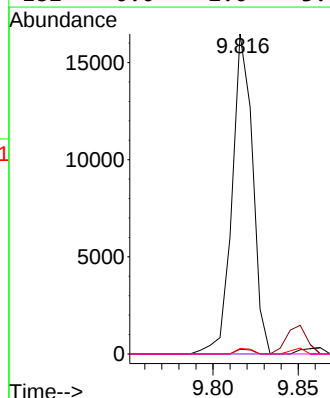
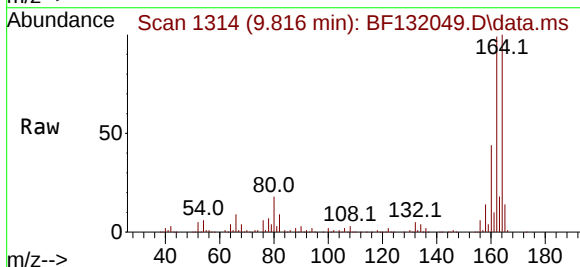
Instrument :
BNA_F
ClientSampleId :
MH-4

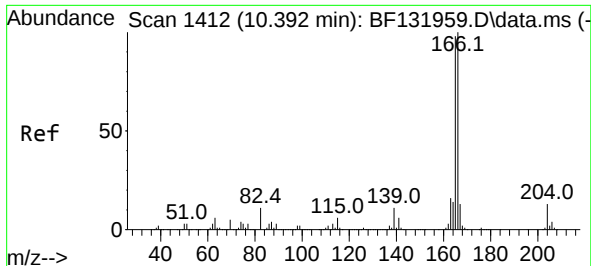
Tgt Ion:139 Resp: 4858
Ion Ratio Lower Upper
139 100
109 3.6 90.5 130.5#
65 6.7 112.6 152.6#



#57
2,4-Dinitrotoluene
Concen: 6.126 ng
RT: 9.816 min Scan# 1314
Delta R.T. -0.212 min
Lab File: BF132049.D
Acq: 12 Jan 2023 19:18

Tgt Ion:165 Resp: 13741
Ion Ratio Lower Upper
165 100
63 1.5 53.2 79.8#
89 1.7 71.2 106.8#
182 0.0 2.0 3.0#

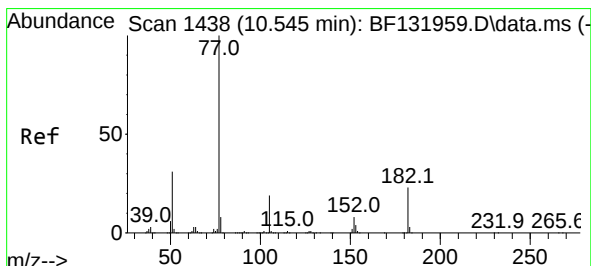
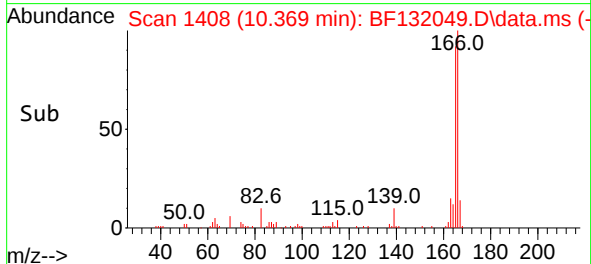
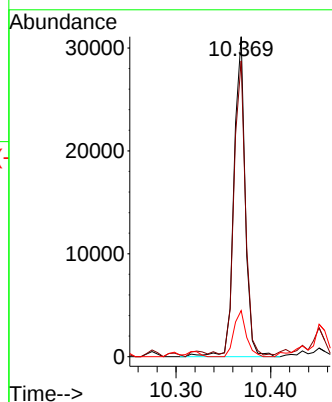
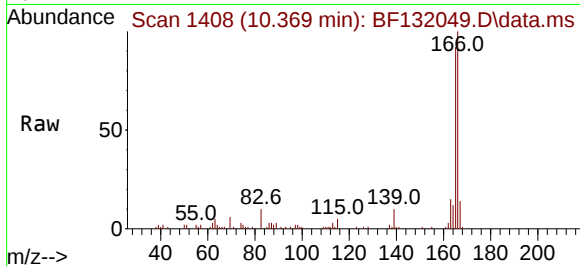




#58
Fluorene
Concen: 3.560 ng
RT: 10.369 min Scan# 1412
Delta R.T. -0.006 min
Lab File: BF132049.D
Acq: 12 Jan 2023 19:18

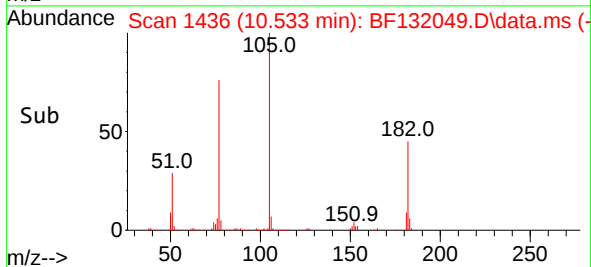
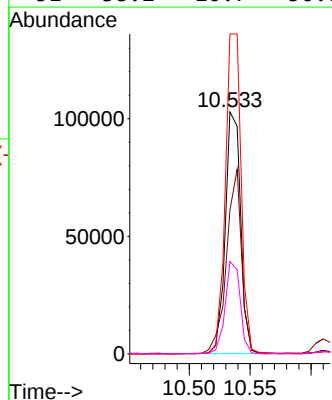
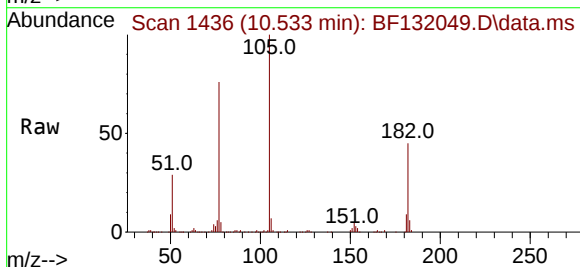
Instrument :
BNA_F
ClientSampleId :
MH-4

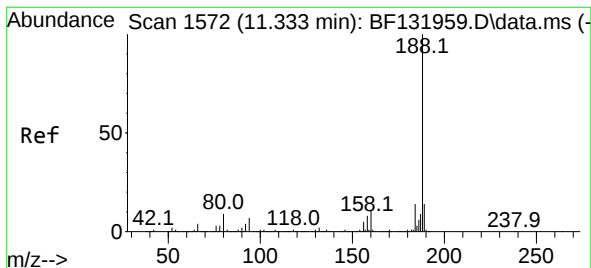
Tgt Ion:166 Resp: 25602
Ion Ratio Lower Upper
166 100
165 92.5 78.3 117.5
167 14.4 10.7 16.1



#63
Azobenzene
Concen: 10.790 ng
RT: 10.533 min Scan# 1436
Delta R.T. 0.006 min
Lab File: BF132049.D
Acq: 12 Jan 2023 19:18

Tgt Ion: 77 Resp: 89788
Ion Ratio Lower Upper
77 100
182 59.4 2.9 42.9#
105 132.2 0.0 39.3#
51 38.2 10.7 50.7





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.310 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF132049.D

Acq: 12 Jan 2023 19:18

Instrument :

BNA_F

ClientSampleId :

MH-4

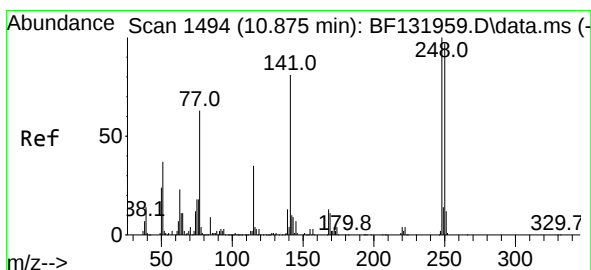
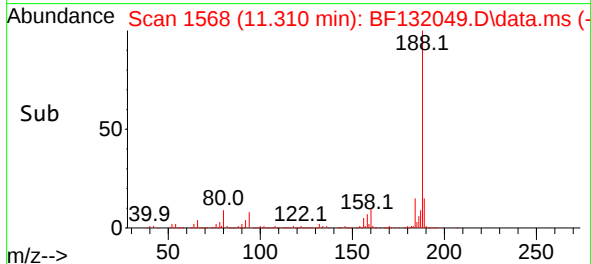
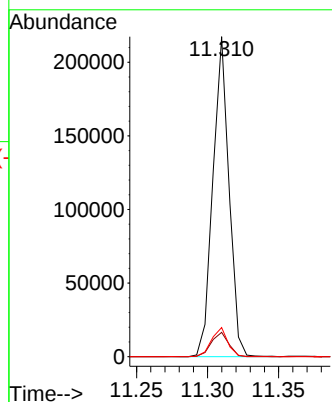
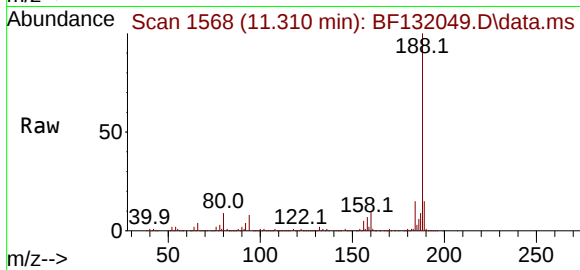
Tgt Ion:188 Resp: 171834

Ion Ratio Lower Upper

188 100

94 7.6 5.8 8.6

80 9.1 7.4 11.0



#67

4-Bromophenyl-phenylether

Concen: 4.606 ng

RT: 10.616 min Scan# 1450

Delta R.T. -0.241 min

Lab File: BF132049.D

Acq: 12 Jan 2023 19:18

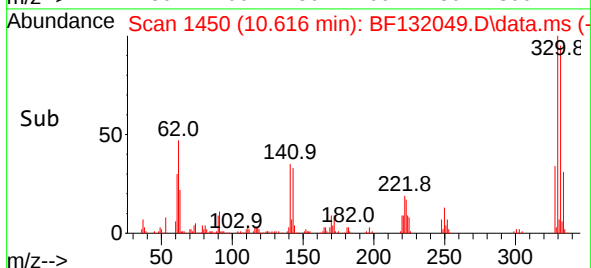
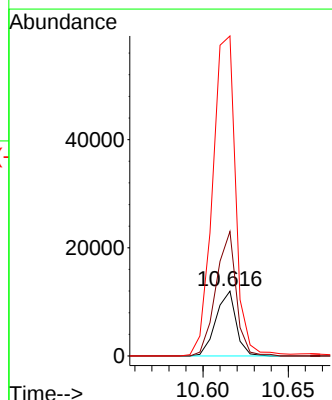
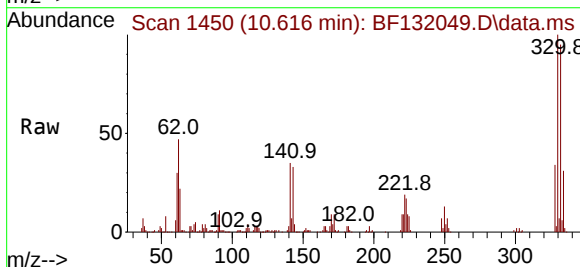
Tgt Ion:248 Resp: 9902

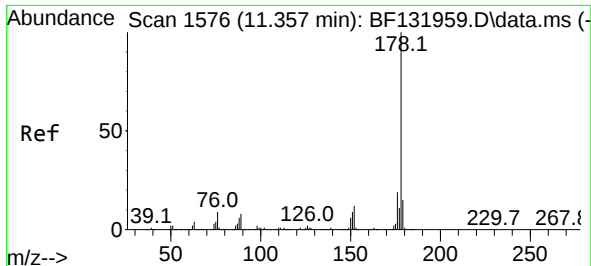
Ion Ratio Lower Upper

248 100

250 192.2 77.4 116.2#

141 494.2 65.0 97.6#

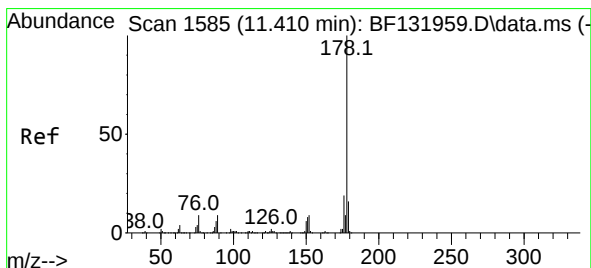
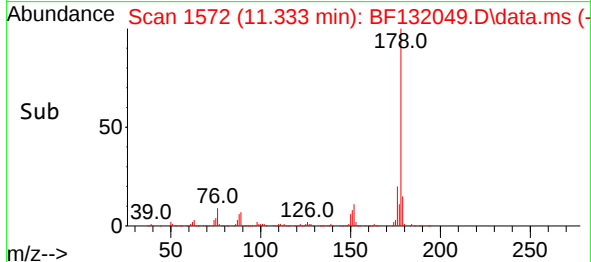
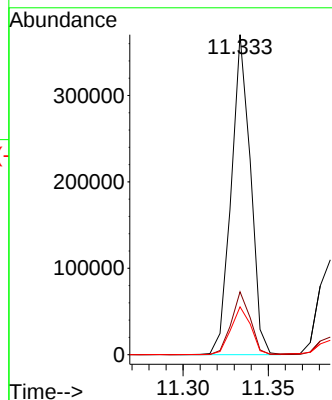
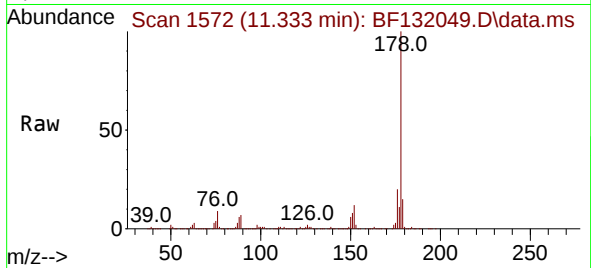




#71
Phenanthrene
Concen: 32.425 ng
RT: 11.333 min Scan# 1572
Delta R.T. -0.006 min
Lab File: BF132049.D
Acq: 12 Jan 2023 19:18

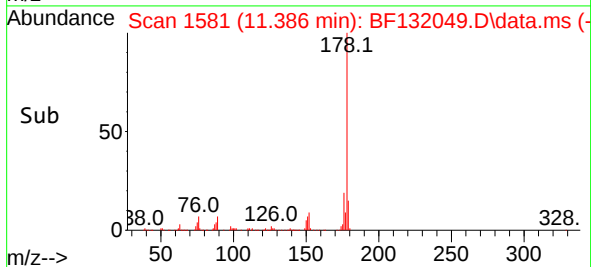
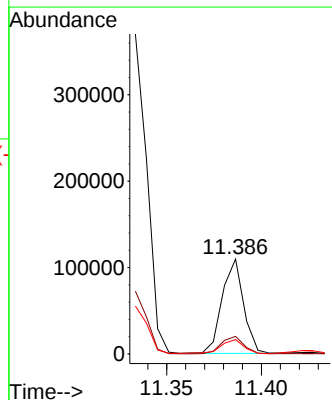
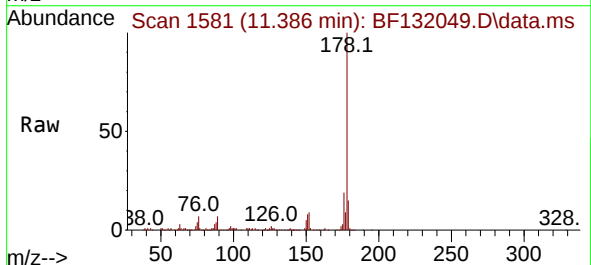
Instrument :
BNA_F
ClientSampleId :
MH-4

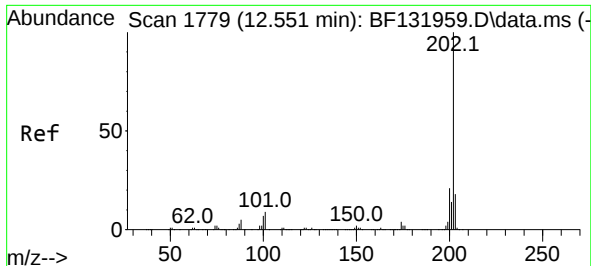
Tgt Ion:178 Resp: 290459
Ion Ratio Lower Upper
178 100
176 19.7 15.5 23.3
179 15.0 12.4 18.6



#72
Anthracene
Concen: 9.339 ng
RT: 11.386 min Scan# 1581
Delta R.T. -0.006 min
Lab File: BF132049.D
Acq: 12 Jan 2023 19:18

Tgt Ion:178 Resp: 86124
Ion Ratio Lower Upper
178 100
176 18.5 15.3 22.9
179 15.2 12.6 19.0

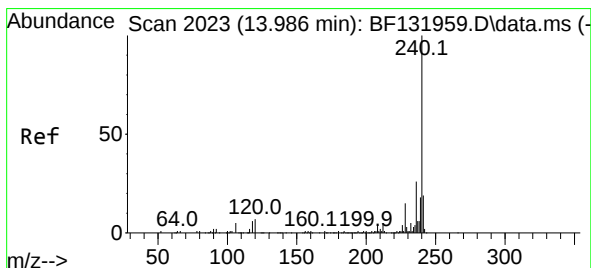
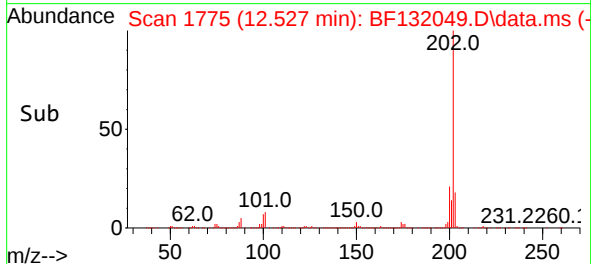
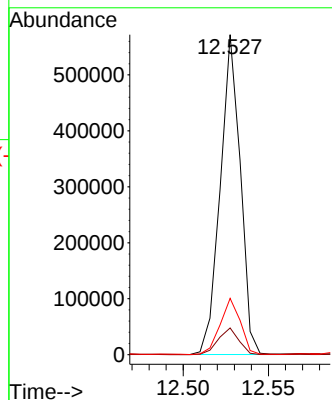
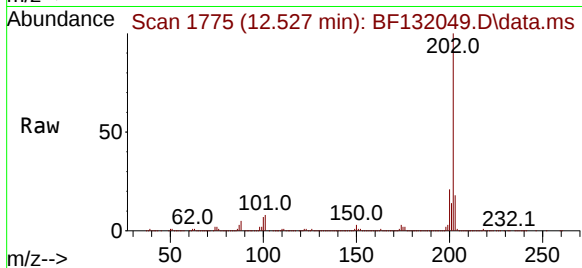




#75
Fluoranthene
Concen: 46.558 ng
RT: 12.527 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF132049.D
Acq: 12 Jan 2023 19:18

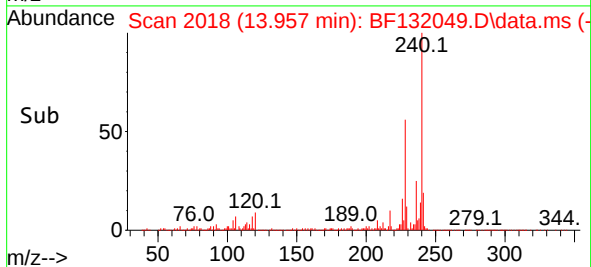
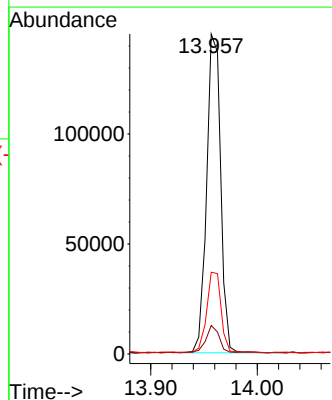
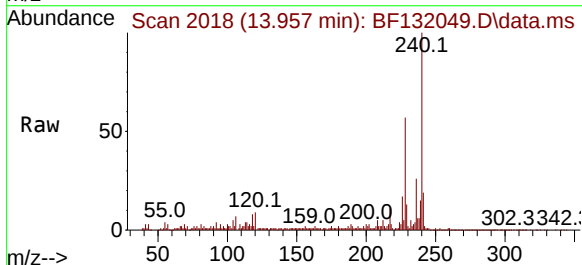
Instrument :
BNA_F
ClientSampleId :
MH-4

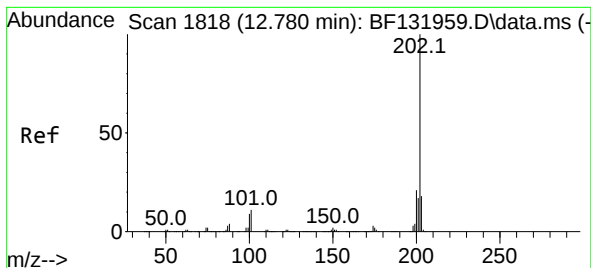
Tgt Ion:202 Resp: 469041
Ion Ratio Lower Upper
202 100
101 8.4 0.0 28.8
203 17.6 0.0 37.6



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.957 min Scan# 2018
Delta R.T. -0.006 min
Lab File: BF132049.D
Acq: 12 Jan 2023 19:18

Tgt Ion:240 Resp: 133251
Ion Ratio Lower Upper
240 100
120 8.9 5.4 8.0#
236 25.6 21.1 31.7





#78

Pyrene

Concen: 31.527 ng

RT: 12.757 min Scan# 1814

Delta R.T. -0.006 min

Lab File: BF132049.D

Acq: 12 Jan 2023 19:18

Instrument :

BNA_F

ClientSampleId :

MH-4

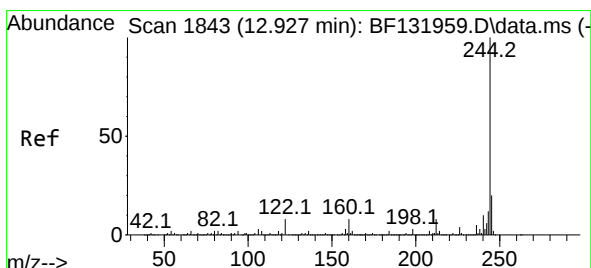
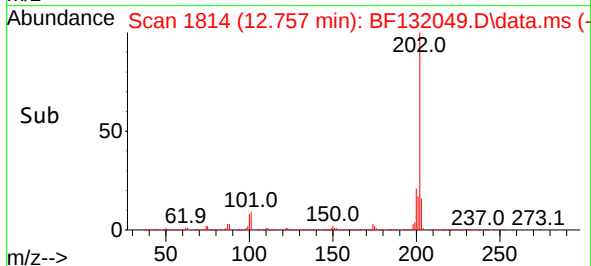
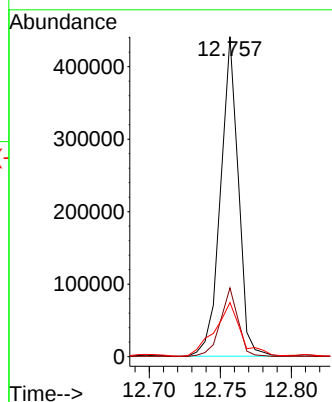
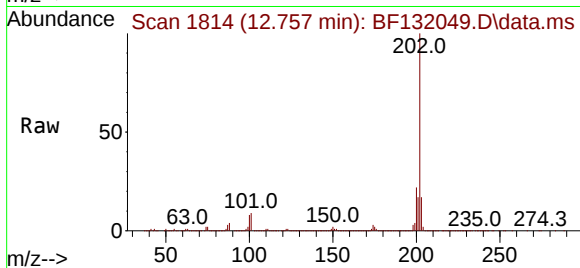
Tgt Ion:202 Resp: 383157

Ion Ratio Lower Upper

202 100

200 21.5 17.0 25.6

203 16.9 14.1 21.1



#79

Terphenyl-d14

Concen: 75.547 ng

RT: 12.904 min Scan# 1839

Delta R.T. 0.000 min

Lab File: BF132049.D

Acq: 12 Jan 2023 19:18

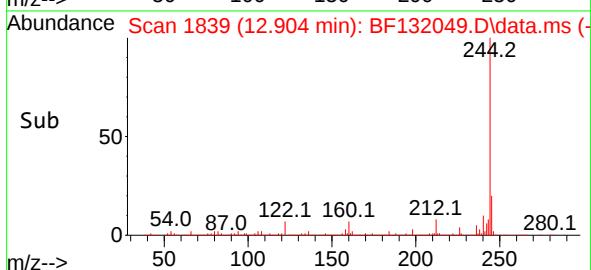
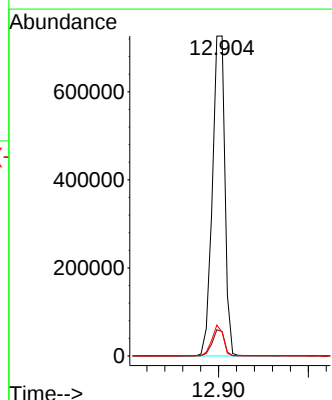
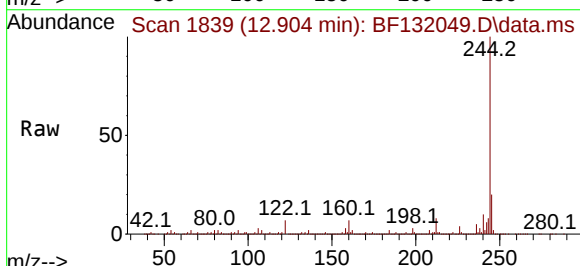
Tgt Ion:244 Resp: 702360

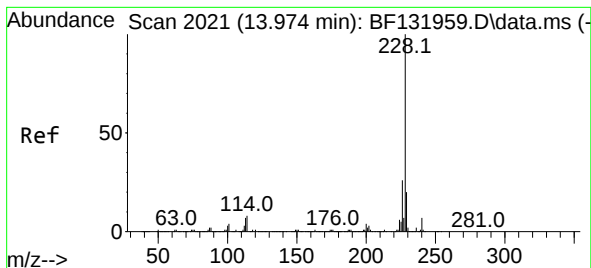
Ion Ratio Lower Upper

244 100

212 7.7 6.3 9.5

122 7.5 6.8 10.2





#81

Benzo(a)anthracene

Concen: 19.979 ng

RT: 13.951 min Scan# 20

Delta R.T. 0.000 min

Lab File: BF132049.D

Acq: 12 Jan 2023 19:18

Instrument :

BNA_F

ClientSampleId :

MH-4

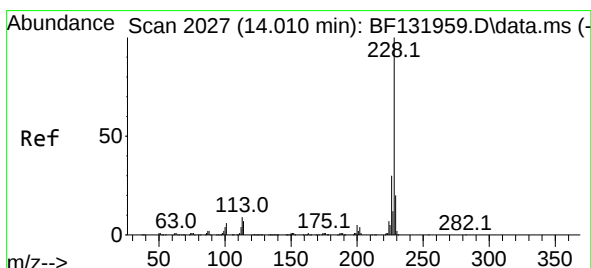
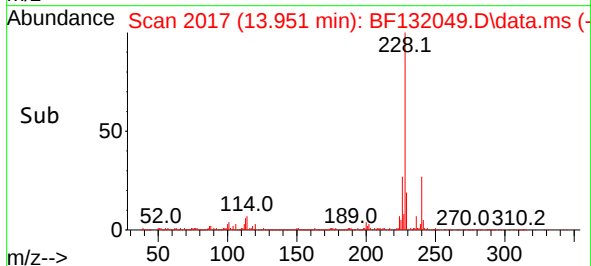
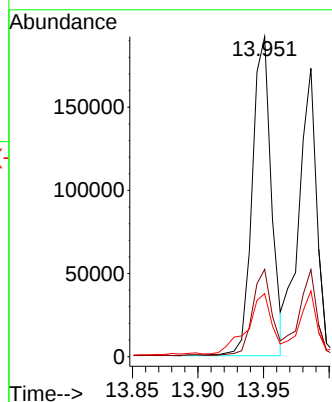
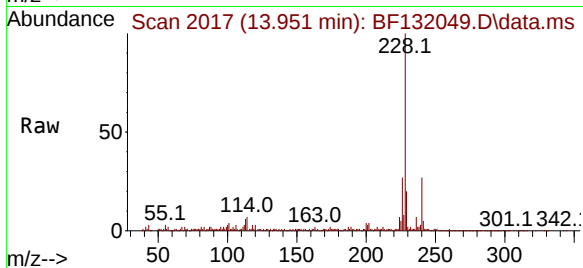
Tgt Ion:228 Resp: 193688

Ion Ratio Lower Upper

228 100

226 27.3 21.0 31.4

229 19.7 15.8 23.6



#83

Chrysene

Concen: 18.240 ng

RT: 13.986 min Scan# 2023

Delta R.T. -0.006 min

Lab File: BF132049.D

Acq: 12 Jan 2023 19:18

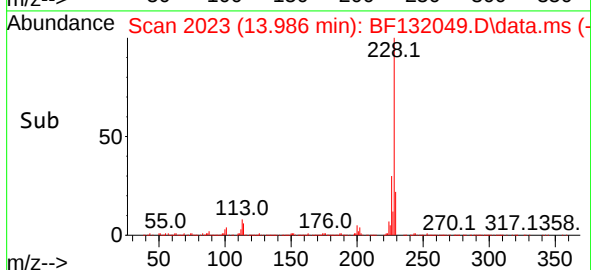
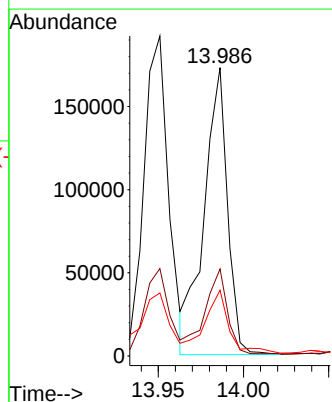
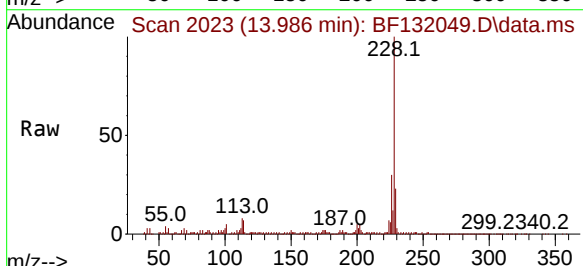
Tgt Ion:228 Resp: 165251

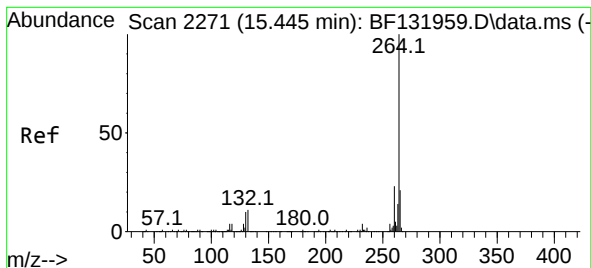
Ion Ratio Lower Upper

228 100

226 30.2 24.0 36.0

229 22.8 16.2 24.4





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.421 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF132049.D

Acq: 12 Jan 2023 19:18

Instrument :

BNA_F

ClientSampleId :

MH-4

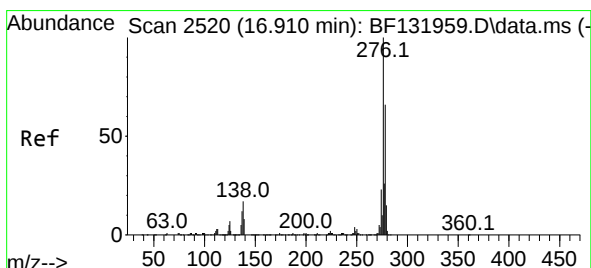
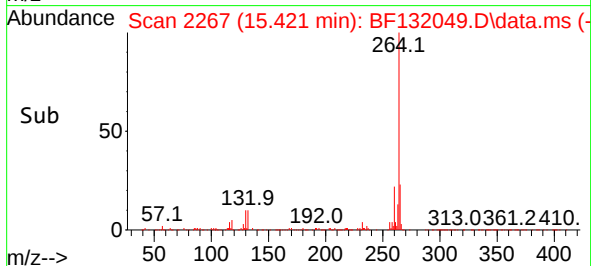
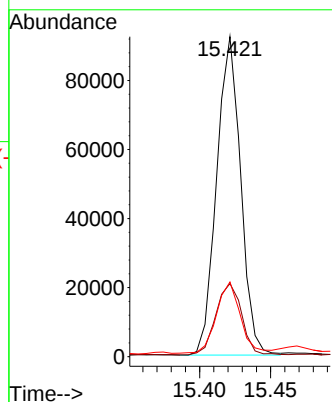
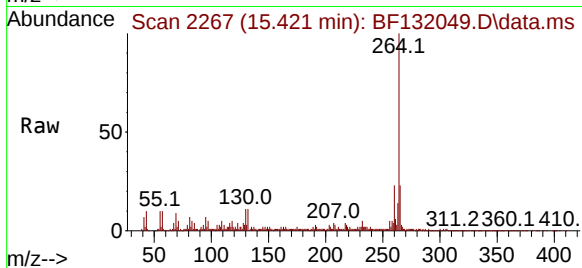
Tgt Ion:264 Resp: 108571

Ion Ratio Lower Upper

264 100

260 22.9 18.3 27.5

265 23.4 16.9 25.3



#87

Indeno(1,2,3-cd)pyrene

Concen: 9.340 ng

RT: 16.874 min Scan# 2514

Delta R.T. -0.006 min

Lab File: BF132049.D

Acq: 12 Jan 2023 19:18

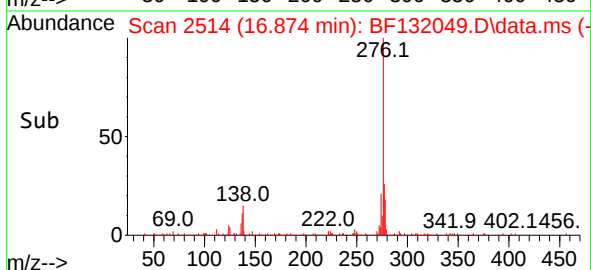
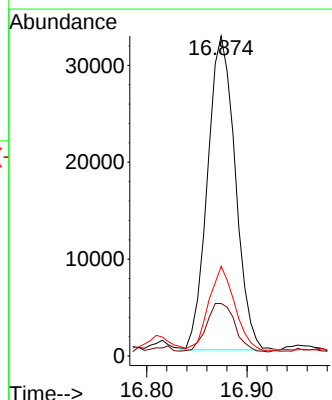
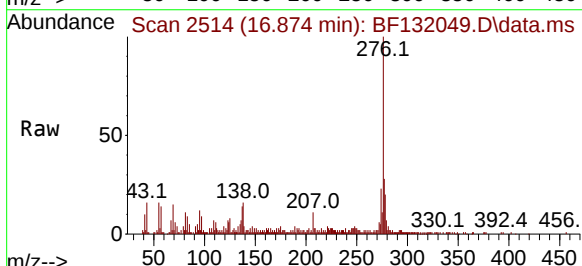
Tgt Ion:276 Resp: 62190

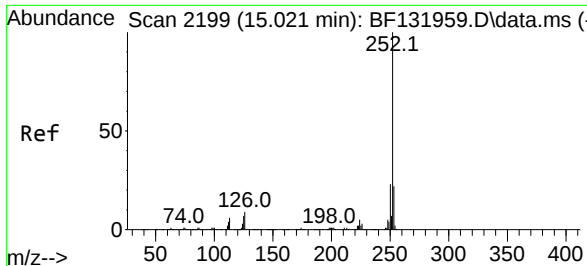
Ion Ratio Lower Upper

276 100

138 16.4 14.2 21.2

277 25.4 20.2 30.4

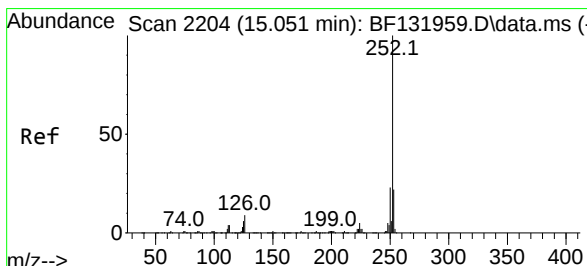
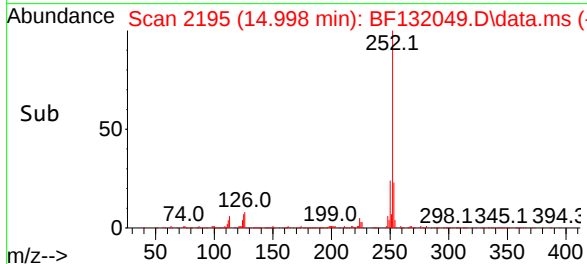
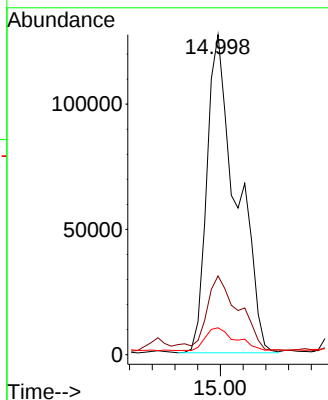
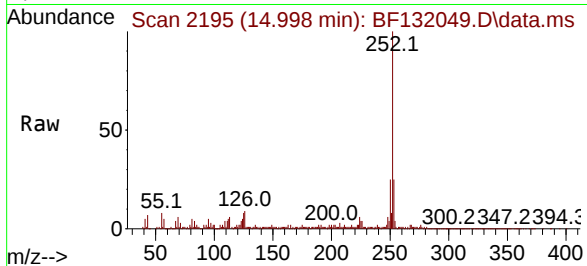




#88
Benzo(b)fluoranthene
Concen: 30.885 ng
RT: 14.998 min Scan# 2195
Delta R.T. 0.000 min
Lab File: BF132049.D
Acq: 12 Jan 2023 19:18

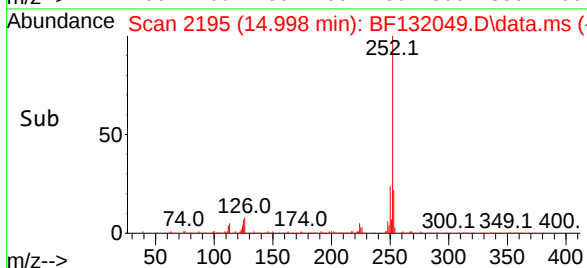
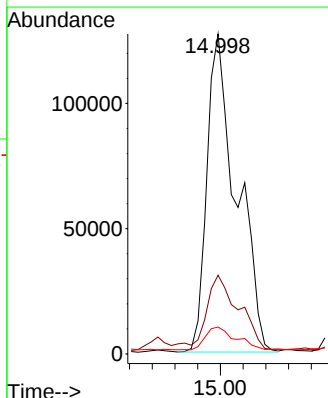
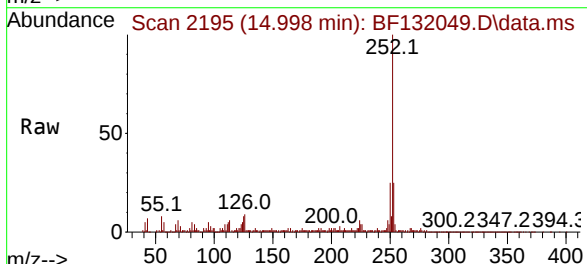
Instrument :
BNA_F
ClientSampleId :
MH-4

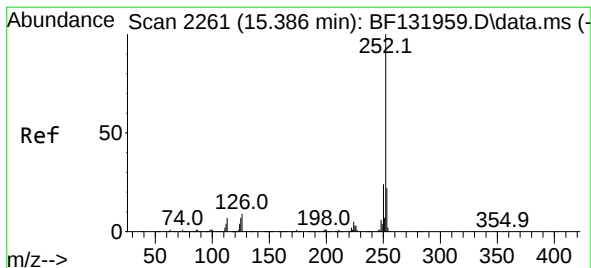
Tgt Ion:252 Resp: 229990
Ion Ratio Lower Upper
252 100
253 24.6 18.0 27.0
125 8.4 5.8 8.6



#89
Benzo(k)fluoranthene
Concen: 30.947 ng
RT: 14.998 min Scan# 2195
Delta R.T. -0.029 min
Lab File: BF132049.D
Acq: 12 Jan 2023 19:18

Tgt Ion:252 Resp: 229990
Ion Ratio Lower Upper
252 100
253 24.6 17.8 26.6
125 8.4 5.2 7.8#





#90

Benzo(a)pyrene

Concen: 18.342 ng

RT: 15.357 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF132049.D

Acq: 12 Jan 2023 19:18

Instrument :

BNA_F

ClientSampleId :

MH-4

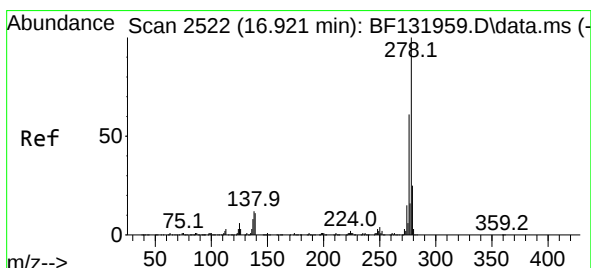
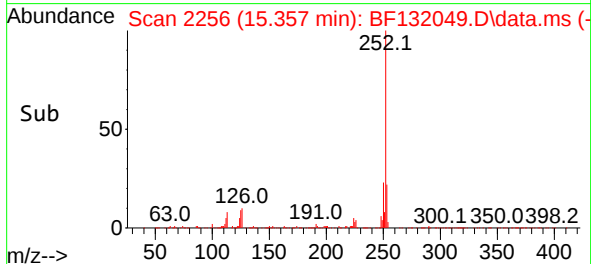
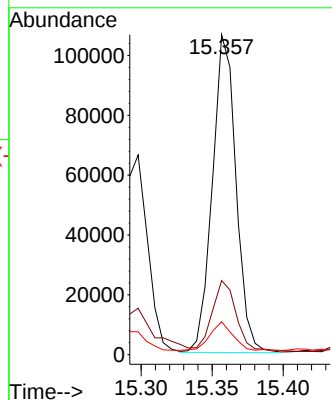
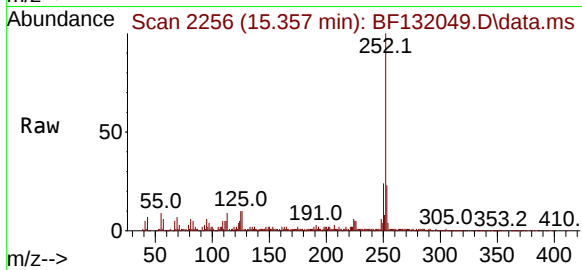
Tgt Ion:252 Resp: 123061

Ion Ratio Lower Upper

252 100

253 23.1 17.4 26.0

125 10.3 5.7 8.5#



#91

Dibenzo(a,h)anthracene

Concen: 2.707 ng

RT: 16.880 min Scan# 2515

Delta R.T. -0.006 min

Lab File: BF132049.D

Acq: 12 Jan 2023 19:18

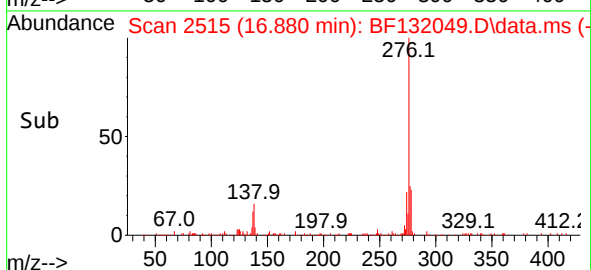
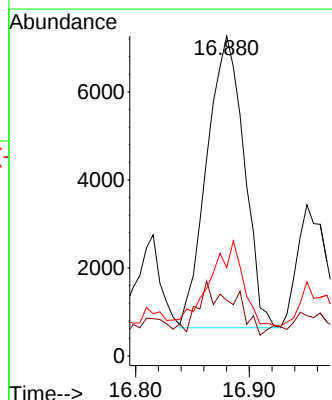
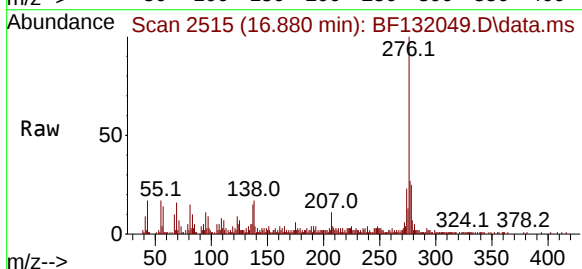
Tgt Ion:278 Resp: 15108

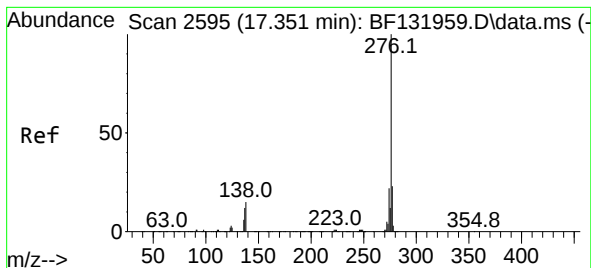
Ion Ratio Lower Upper

278 100

139 17.4 8.8 13.2#

279 27.6 19.8 29.6





#92

Benzo(g,h,i)perylene

Concen: 12.601 ng

RT: 17.315 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF132049.D

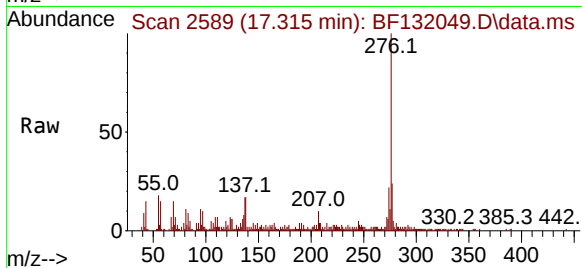
Acq: 12 Jan 2023 19:18

Instrument :

BNA_F

ClientSampleId :

MH-4



Tgt Ion:276 Resp: 58548

Ion Ratio Lower Upper

276 100

277 24.2 18.2 27.2

138 17.3 11.7 17.5

