

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071723\
 Data File : BF134328.D
 Acq On : 17 Jul 2023 22:04
 Operator : CG\JU
 Sample : 03597-02
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RB-42-(5-7)

Quant Time: Jul 18 01:17:46 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 14 22:51:27 2023
 Response via : Initial Calibration

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

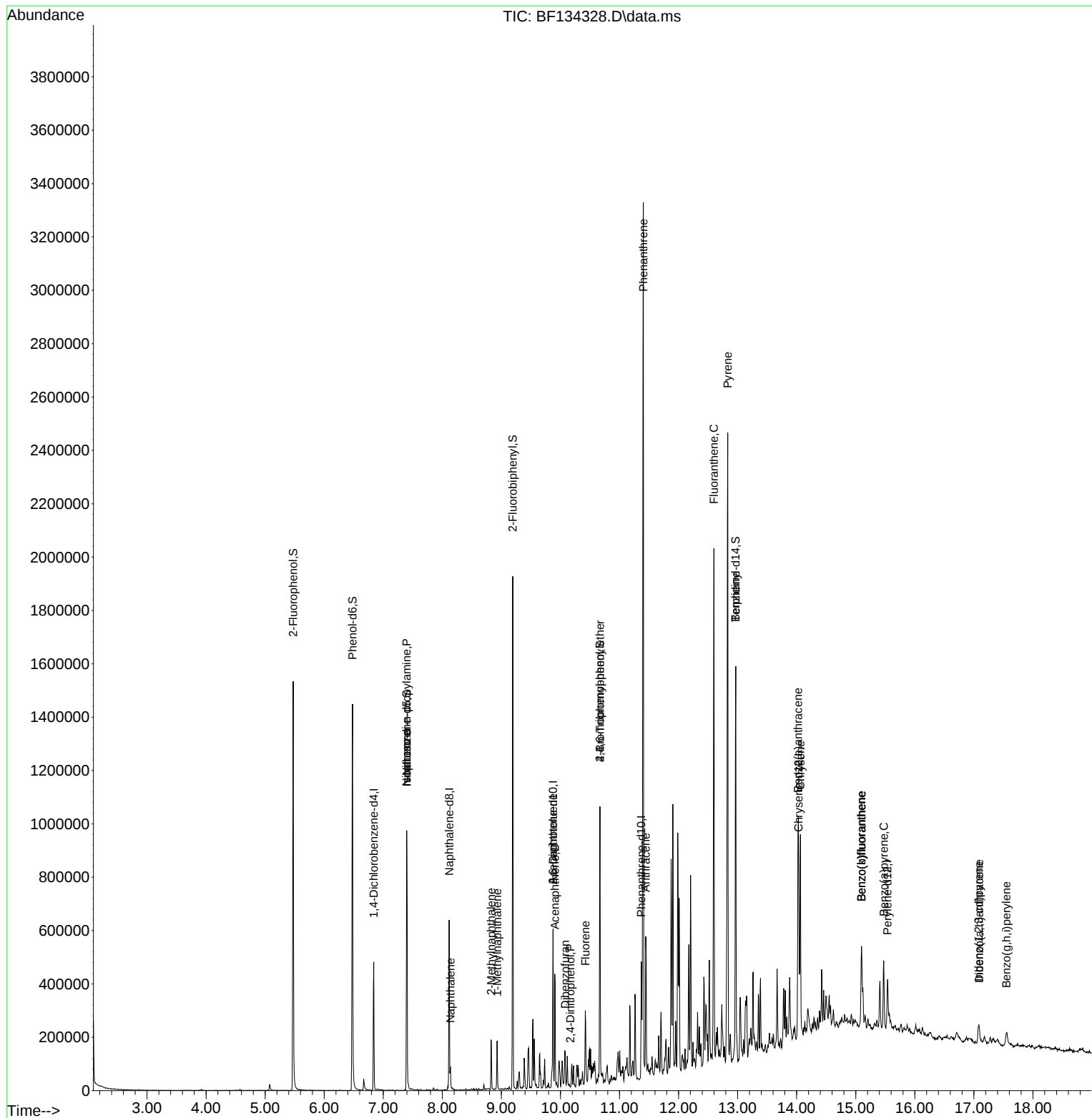
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.839	152	67991	20.000	ng	0.00
21) Naphthalene-d8	8.116	136	241954	20.000	ng	0.00
39) Acenaphthene-d10	9.874	164	104811	20.000	ng	0.00
64) Phenanthrene-d10	11.368	188	180895	20.000	ng	0.00
76) Chrysene-d12	14.033	240	112535	20.000	ng	0.00
86) Perylene-d12	15.539	264	92246	20.000	ng	# 0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.475	112	374532	92.145	ng	0.00
7) Phenol-d6	6.481	99	435105	87.045	ng	0.00
23) Nitrobenzene-d5	7.398	82	282780	63.001	ng	-0.01
42) 2,4,6-Tribromophenol	10.669	330	110939	84.421	ng	-0.01
45) 2-Fluorobiphenyl	9.192	172	503320	69.818	ng	-0.01
79) Terphenyl-d14	12.968	244	496913	71.066	ng	0.00
Target Compounds						Qvalue
9) Benzaldehyde	6.475	77	819	Below Cal	#	1
19) n-Nitroso-di-n-propyla...	7.398	70	40530	12.786	ng	# 74
25) Isophorone	7.398	82	282778	34.665	ng	# 64
31) Naphthalene	8.139	128	31067	2.658	ng	98
37) 2-Methylnaphthalene	8.827	142	43485	5.262	ng	97
38) 1-Methylnaphthalene	8.927	142	41109	5.351	ng	99
51) 2,6-Dinitrotoluene	9.874	165	17015	10.383	ng	# 24
52) Acenaphthene	9.904	154	83485	13.692	ng	99
54) 2,4-Dinitrophenol	10.169	184	207	4.072	ng	# 15
55) Dibenzofuran	10.080	168	22475	2.358	ng	# 87
58) Fluorene	10.422	166	69325	9.351	ng	# 97
67) 4-Bromophenyl-phenylether	10.669	248	6796	3.535	ng	# 1
71) Phenanthrene	11.404	178	1244309	136.639	ng	99
72) Anthracene	11.445	178	201941	21.320	ng	99
75) Fluoranthene	12.598	202	701953	71.300	ng	98
77) Benzidine	12.968	184	7397	2.762	ng	99
78) Pyrene	12.833	202	1035833	98.906	ng	100
81) Benzo(a)anthracene	14.021	228	311555	39.920	ng	99
83) Chrysene	14.062	228	289093	38.244	ng	99
87) Indeno(1,2,3-cd)pyrene	17.080	276	55861	8.727	ng	# 90
88) Benzo(b)fluoranthene	15.098	252	213599	39.379	ng	98
89) Benzo(k)fluoranthene	15.098	252	213599	38.677	ng	97
90) Benzo(a)pyrene	15.474	252	129688	24.726	ng	97
91) Dibenzo(a,h)anthracene	17.092	278	17408	3.330	ng	96
92) Benzo(g,h,i)perylene	17.550	276	55263	10.250	ng	97

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071723\
Data File : BF134328.D
Acq On : 17 Jul 2023 22:04
Operator : CG\JU
Sample : 03597-02
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RB-42-(5-7)

Quant Time: Jul 18 01:17:46 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 14 22:51:27 2023
Response via : Initial Calibration

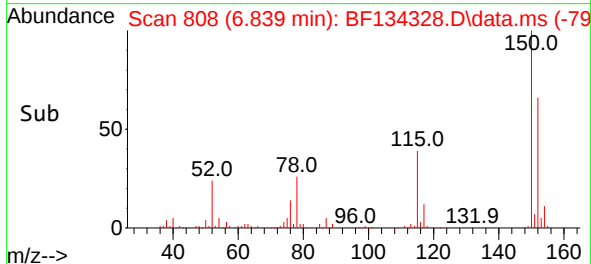
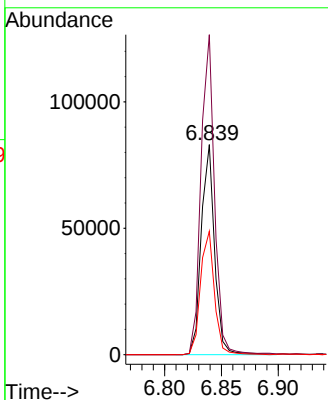
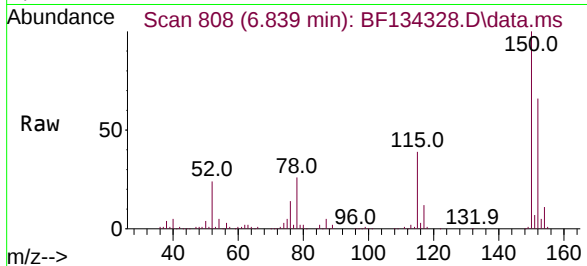




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.839 min Scan# 80
Delta R.T. -0.006 min
Lab File: BF134328.D
Acq: 17 Jul 2023 22:04

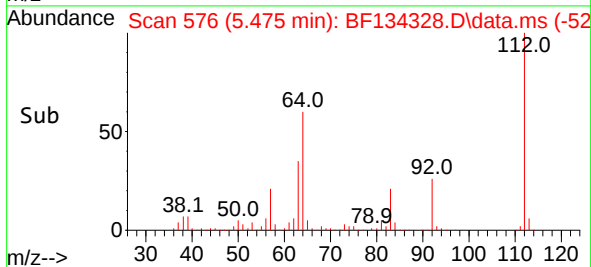
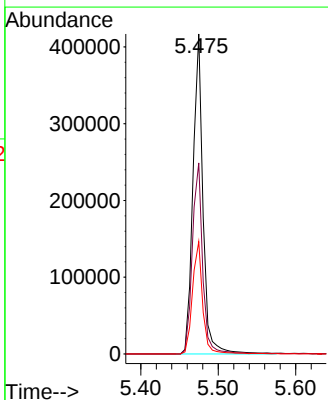
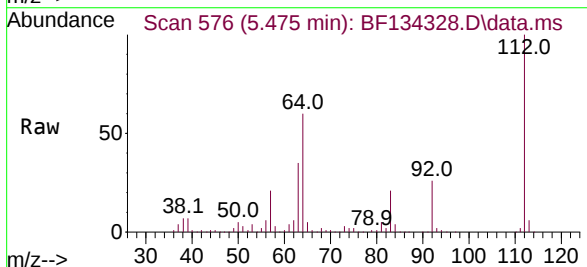
Instrument :
BNA_F
ClientSampleId :
RB-42-(5-7)

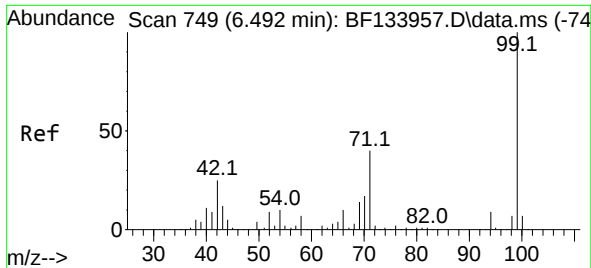
Tgt Ion:152 Resp: 67991
Ion Ratio Lower Upper
152 100
150 152.3 124.5 186.7
115 58.7 50.2 75.2



#5
2-Fluorophenol
Concen: 92.145 ng
RT: 5.475 min Scan# 576
Delta R.T. 0.006 min
Lab File: BF134328.D
Acq: 17 Jul 2023 22:04

Tgt Ion:112 Resp: 374532
Ion Ratio Lower Upper
112 100
64 59.7 52.1 78.1
63 35.1 28.6 42.8





#7

Phenol-d6

Concen: 87.045 ng

RT: 6.481 min Scan# 74

Delta R.T. -0.006 min

Lab File: BF134328.D

Acq: 17 Jul 2023 22:04

Instrument :

BNA_F

ClientSampleId :

RB-42-(5-7)

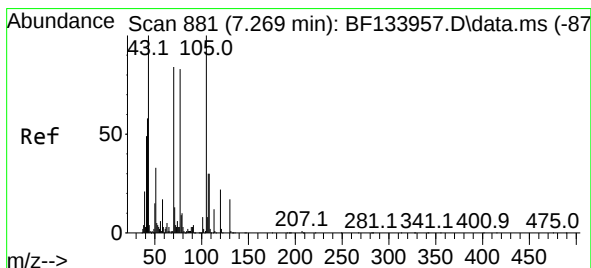
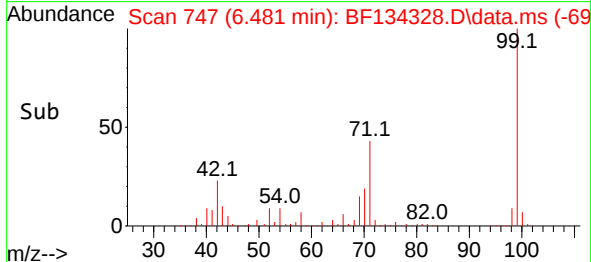
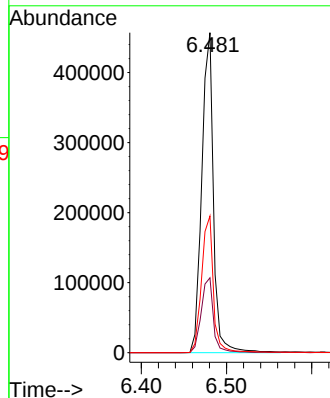
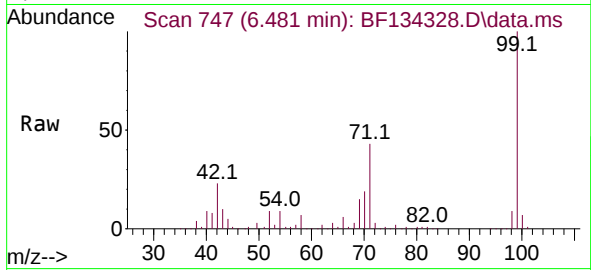
Tgt Ion: 99 Resp: 435105

Ion Ratio Lower Upper

99 100

42 23.4 19.8 29.6

71 42.7 31.9 47.9



#19

n-Nitroso-di-n-propylamine

Concen: 12.786 ng

RT: 7.398 min Scan# 903

Delta R.T. 0.141 min

Lab File: BF134328.D

Acq: 17 Jul 2023 22:04

Tgt Ion: 70 Resp: 40530

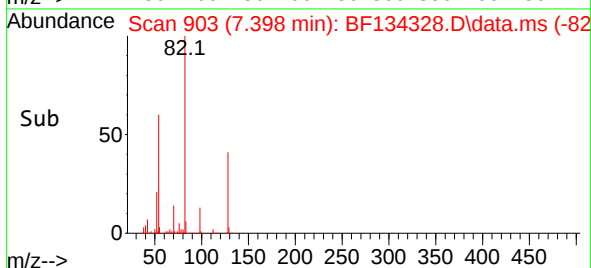
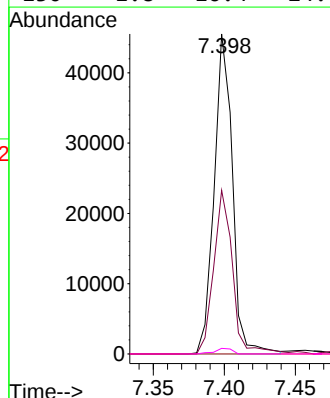
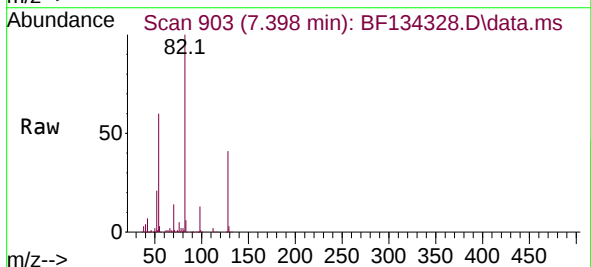
Ion Ratio Lower Upper

70 100

42 51.2 54.7 82.1#

101 0.0 7.7 11.5#

130 1.8 16.4 24.6#

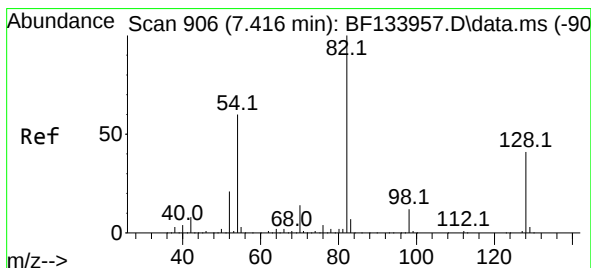
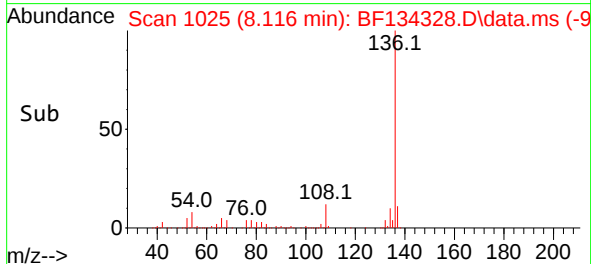
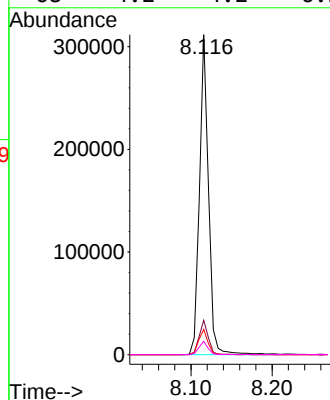
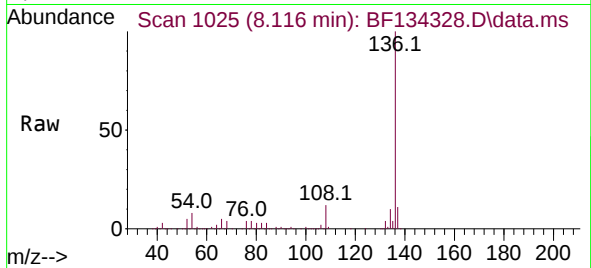




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.116 min Scan# 10
Delta R.T. -0.006 min
Lab File: BF134328.D
Acq: 17 Jul 2023 22:04

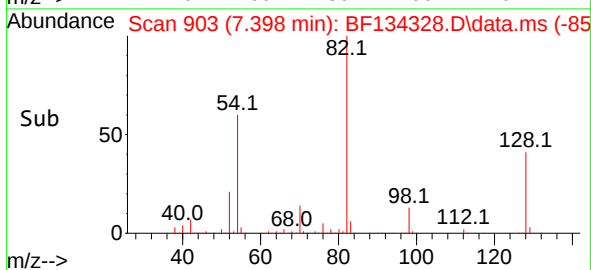
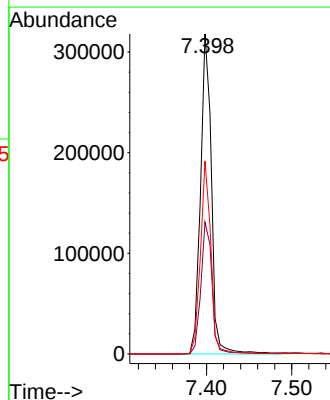
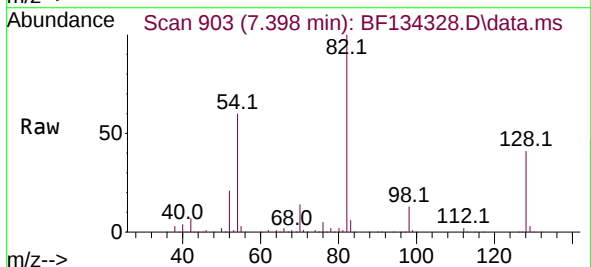
Instrument :
BNA_F
ClientSampleId :
RB-42-(5-7)

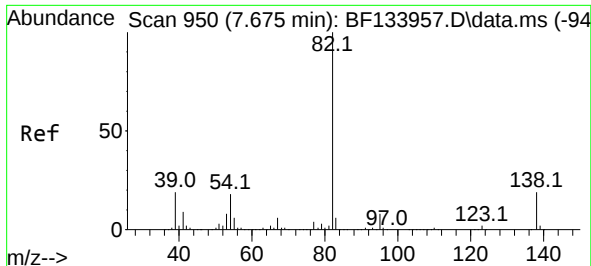
Tgt	Ion:136	Resp:	241954
Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.6	12.8
54	7.9	6.5	9.7
68	4.2	4.2	6.2



#23
Nitrobenzene-d5
Concen: 63.001 ng
RT: 7.398 min Scan# 903
Delta R.T. -0.012 min
Lab File: BF134328.D
Acq: 17 Jul 2023 22:04

Tgt Ion: 82	Resp: 282780
Ion Ratio	Lower Upper
82 100	
128 41.2	32.5 48.7
54 60.2	48.2 72.2

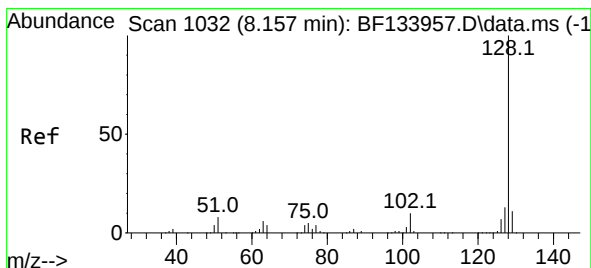
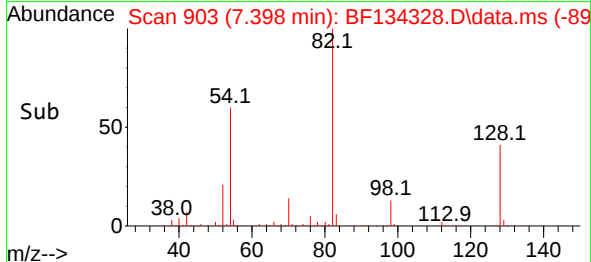
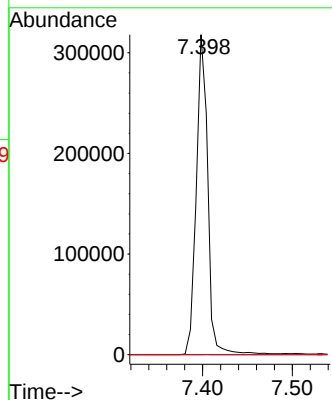
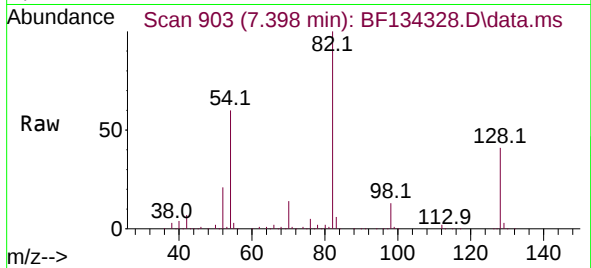




#25
Isophorone
Concen: 34.665 ng
RT: 7.398 min Scan# 90
Delta R.T. -0.265 min
Lab File: BF134328.D
Acq: 17 Jul 2023 22:04

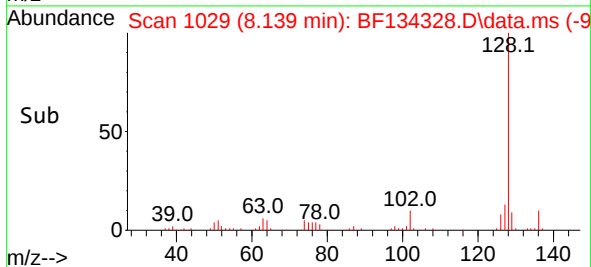
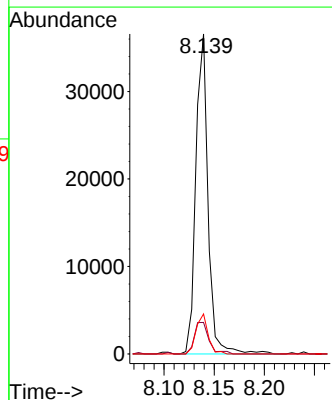
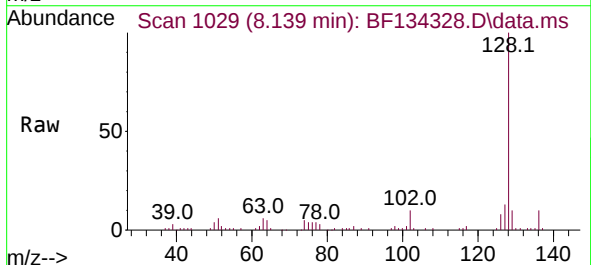
Instrument :
BNA_F
ClientSampleId :
RB-42-(5-7)

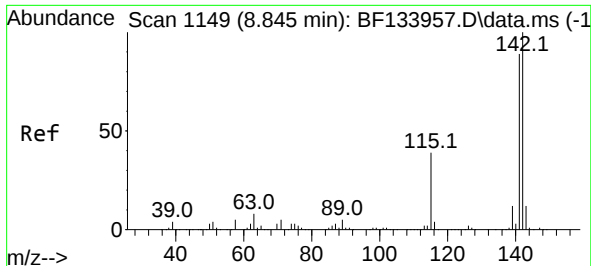
Tgt Ion: 82 Resp: 282778
Ion Ratio Lower Upper
82 100
95 0.0 6.1 9.1#
138 0.0 15.2 22.8#



#31
Naphthalene
Concen: 2.658 ng
RT: 8.139 min Scan# 1029
Delta R.T. -0.006 min
Lab File: BF134328.D
Acq: 17 Jul 2023 22:04

Tgt Ion: 128 Resp: 31067
Ion Ratio Lower Upper
128 100
129 9.8 8.7 13.1
127 12.5 10.6 15.8





#37

2-Methylnaphthalene

Concen: 5.262 ng

RT: 8.827 min Scan# 1146

Delta R.T. -0.012 min

Lab File: BF134328.D

Acq: 17 Jul 2023 22:04

Instrument :

BNA_F

ClientSampleId :

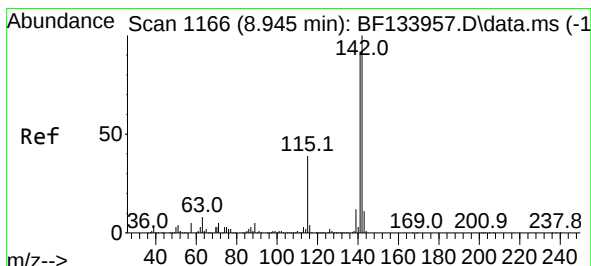
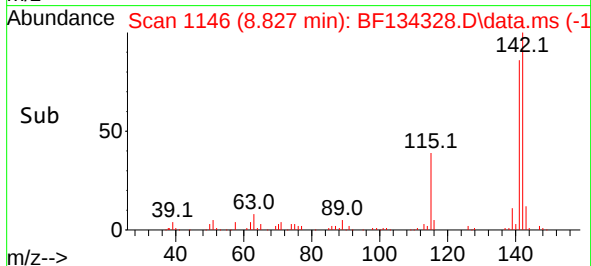
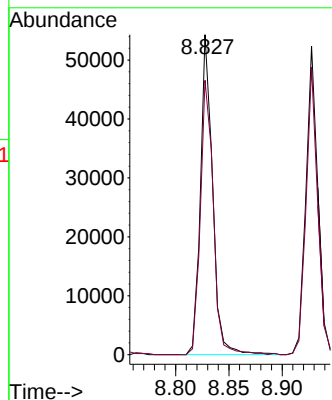
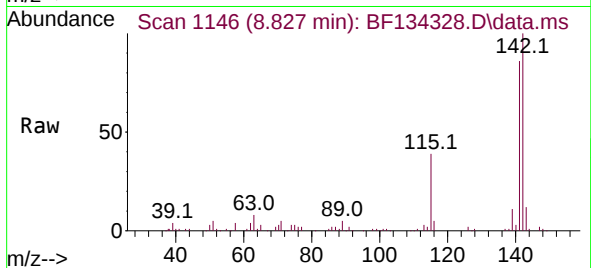
RB-42-(5-7)

Tgt Ion:142 Resp: 43485

Ion Ratio Lower Upper

142 100

141 85.7 71.0 106.4



#38

1-Methylnaphthalene

Concen: 5.351 ng

RT: 8.927 min Scan# 1163

Delta R.T. -0.012 min

Lab File: BF134328.D

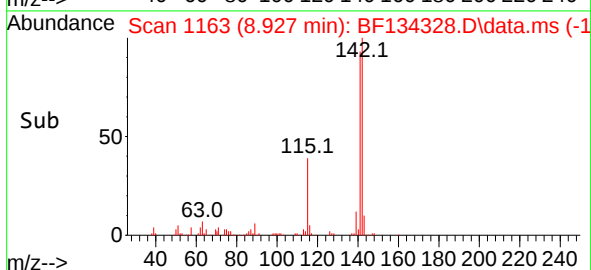
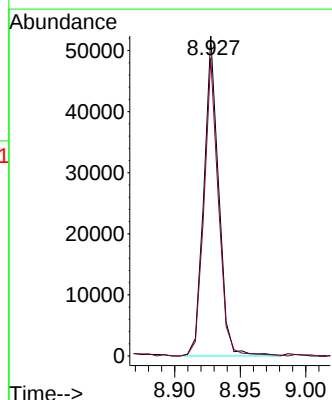
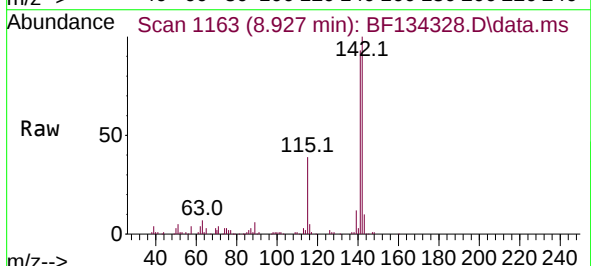
Acq: 17 Jul 2023 22:04

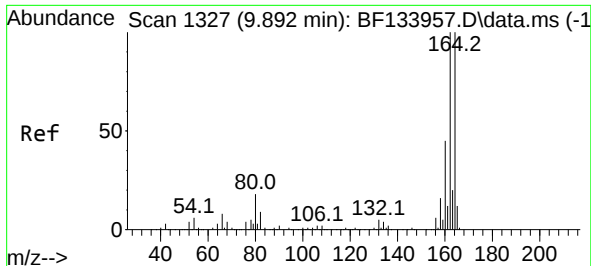
Tgt Ion:142 Resp: 41109

Ion Ratio Lower Upper

142 100

141 93.2 73.5 110.3

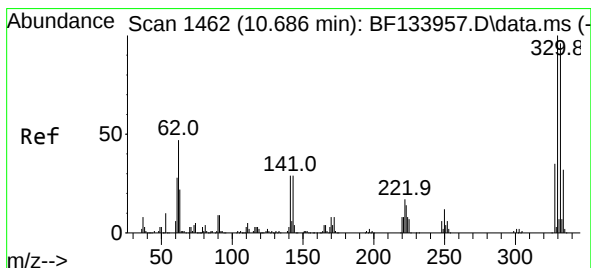
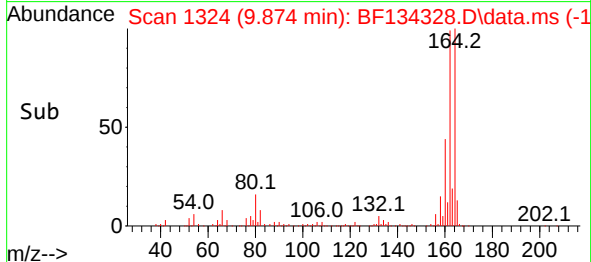
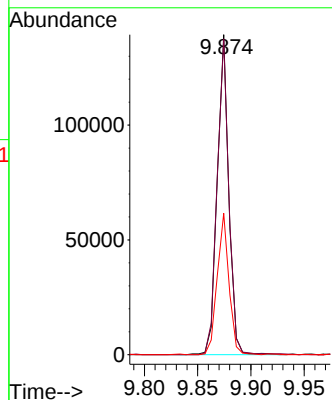
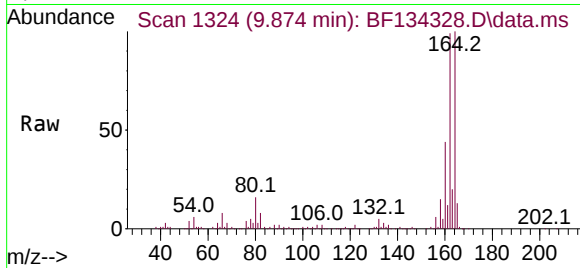




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.874 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF134328.D
Acq: 17 Jul 2023 22:04

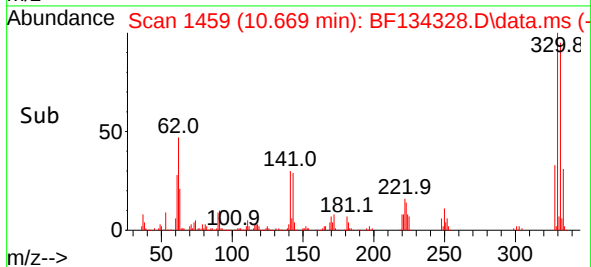
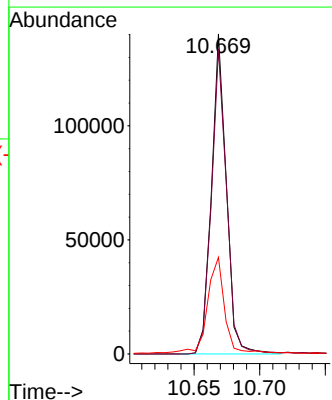
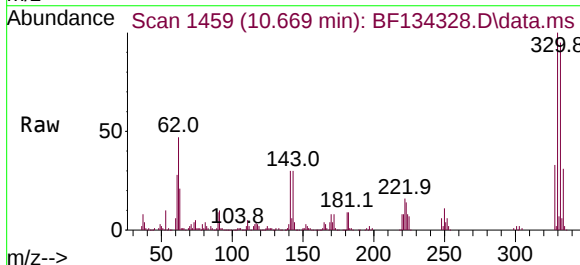
Instrument :
BNA_F
ClientSampleId :
RB-42-(5-7)

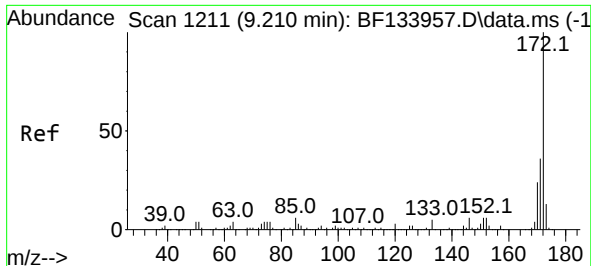
Tgt Ion:164 Resp: 104811
Ion Ratio Lower Upper
164 100
162 98.7 80.0 120.0
160 44.2 35.9 53.9



#42
2,4,6-Tribromophenol
Concen: 84.421 ng
RT: 10.669 min Scan# 1459
Delta R.T. -0.012 min
Lab File: BF134328.D
Acq: 17 Jul 2023 22:04

Tgt Ion:330 Resp: 110939
Ion Ratio Lower Upper
330 100
332 98.0 77.0 115.6
141 34.8 26.3 39.5





#45

2-Fluorobiphenyl

Concen: 69.818 ng

RT: 9.192 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF134328.D

Acq: 17 Jul 2023 22:04

Instrument :

BNA_F

ClientSampleId :

RB-42-(5-7)

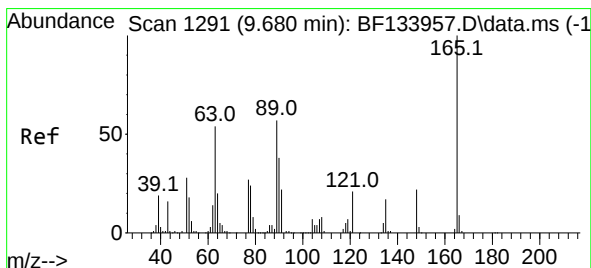
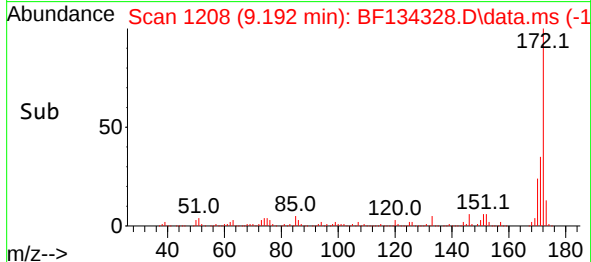
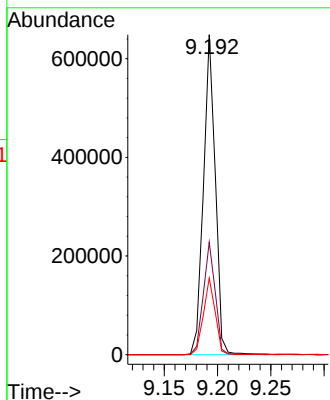
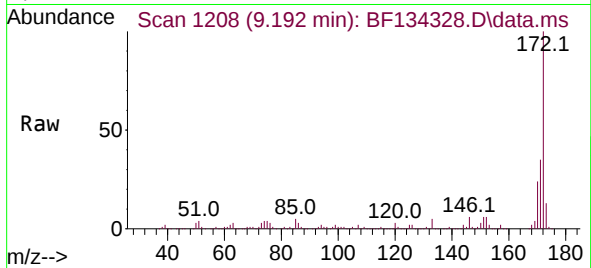
Tgt Ion:172 Resp: 503320

Ion Ratio Lower Upper

172 100

171 35.2 28.6 43.0

170 23.9 19.4 29.0



#51

2,6-Dinitrotoluene

Concen: 10.383 ng

RT: 9.874 min Scan# 1324

Delta R.T. 0.200 min

Lab File: BF134328.D

Acq: 17 Jul 2023 22:04

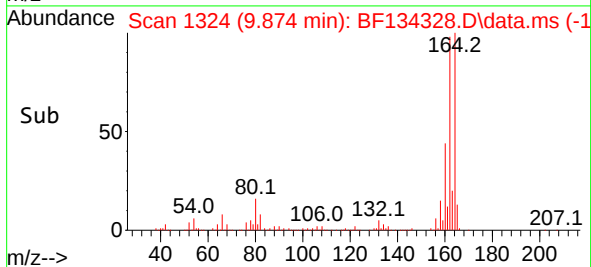
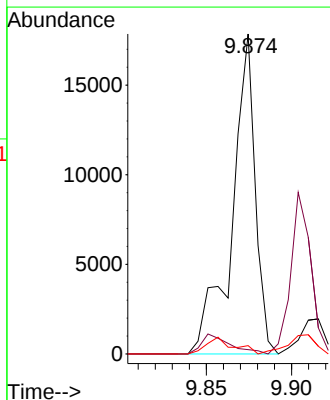
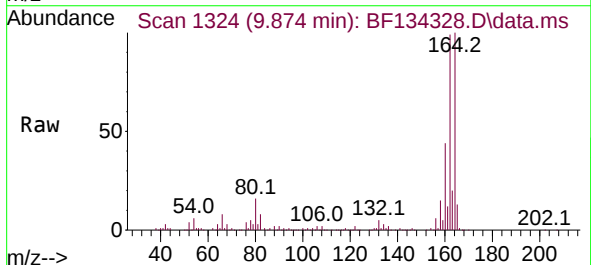
Tgt Ion:165 Resp: 17015

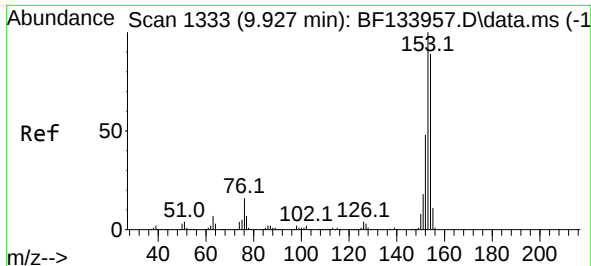
Ion Ratio Lower Upper

165 100

63 1.3 48.5 72.7#

89 2.6 45.5 68.3#

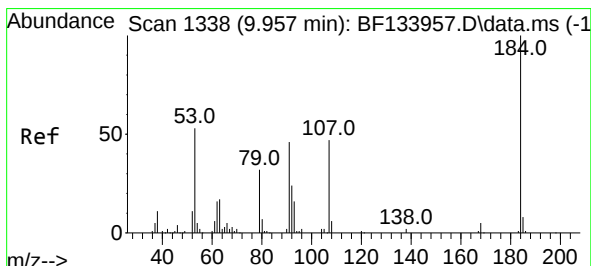
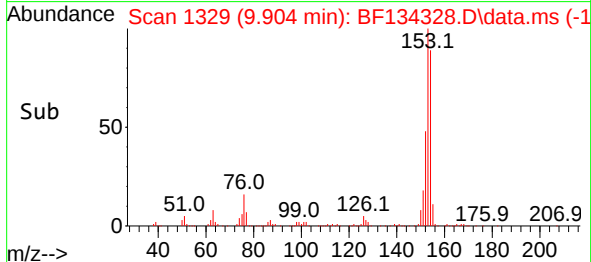
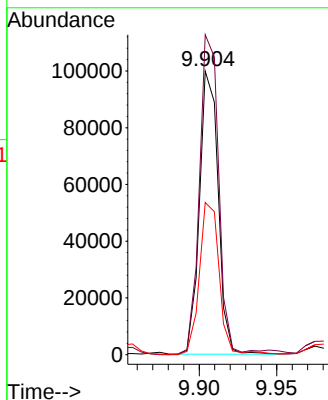
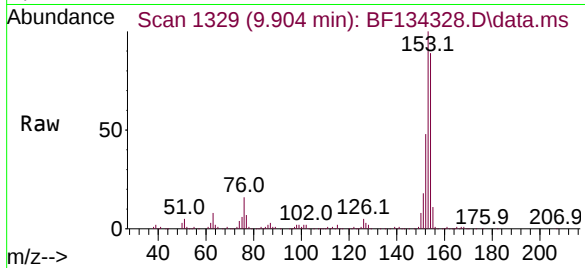




#52
Acenaphthene
Concen: 13.692 ng
RT: 9.904 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF134328.D
Acq: 17 Jul 2023 22:04

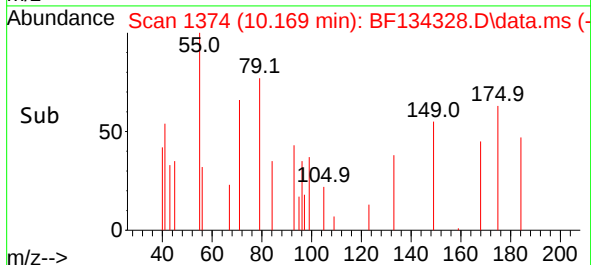
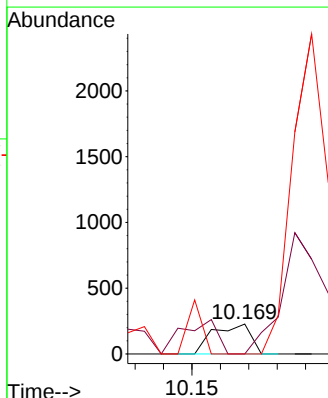
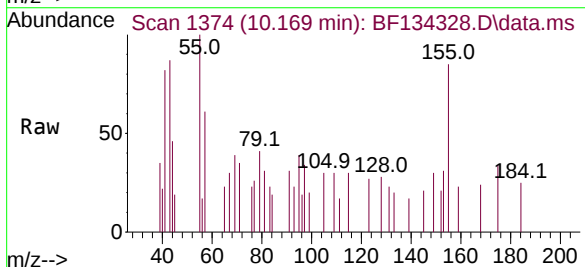
Instrument :
BNA_F
ClientSampleId :
RB-42-(5-7)

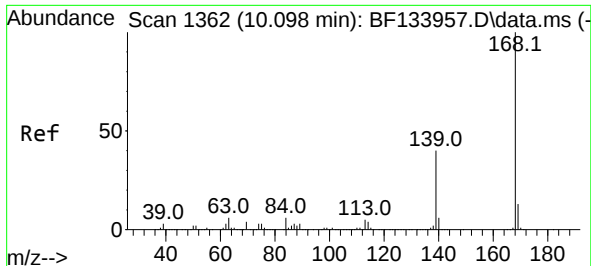
Tgt Ion:154 Resp: 83485
Ion Ratio Lower Upper
154 100
153 112.8 89.4 134.2
152 53.6 42.8 64.2



#54
2,4-Dinitrophenol
Concen: 4.072 ng
RT: 10.169 min Scan# 1374
Delta R.T. 0.212 min
Lab File: BF134328.D
Acq: 17 Jul 2023 22:04

Tgt Ion:184 Resp: 207
Ion Ratio Lower Upper
184 100
63 0.0 56.9 85.3#
154 0.0 55.4 83.0#

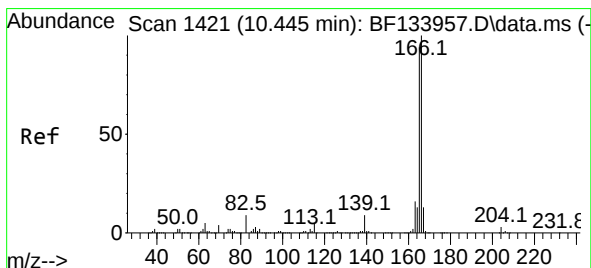
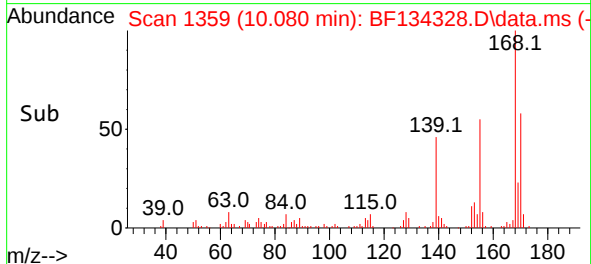
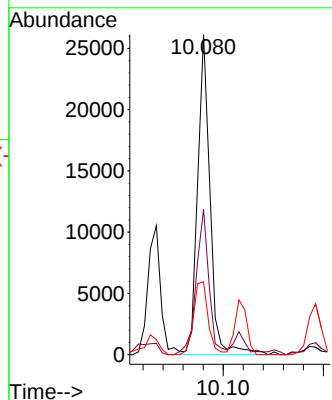
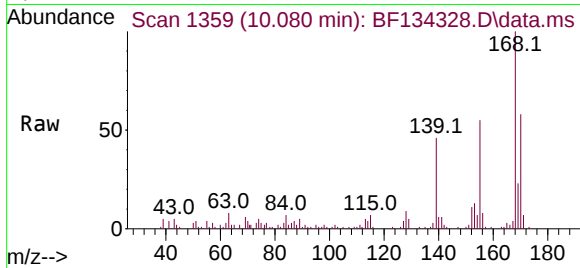




#55
Dibenzenofuran
Concen: 2.358 ng
RT: 10.080 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF134328.D
Acq: 17 Jul 2023 22:04

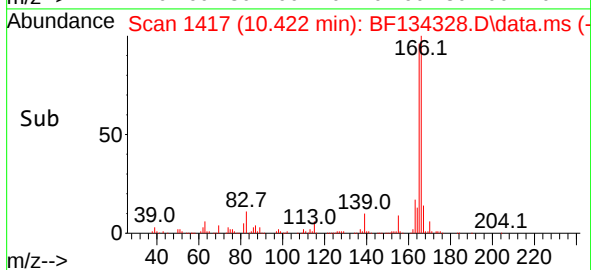
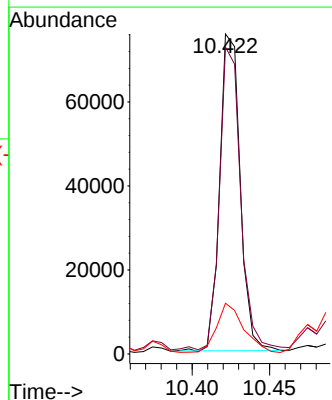
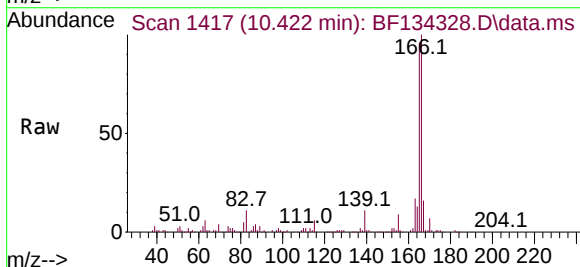
Instrument :
BNA_F
ClientSampleId :
RB-42-(5-7)

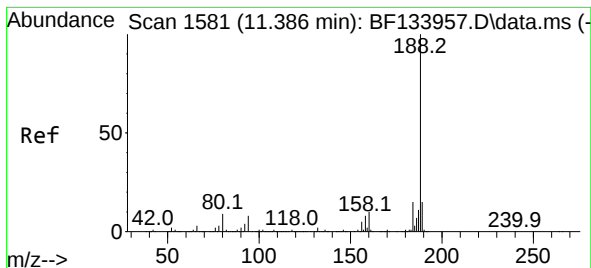
Tgt Ion:168 Resp: 22475
Ion Ratio Lower Upper
168 100
139 45.5 32.0 48.0
169 22.8 10.6 16.0#



#58
Fluorene
Concen: 9.351 ng
RT: 10.422 min Scan# 1417
Delta R.T. -0.012 min
Lab File: BF134328.D
Acq: 17 Jul 2023 22:04

Tgt Ion:166 Resp: 69325
Ion Ratio Lower Upper
166 100
165 95.9 75.0 112.4
167 15.9 10.6 15.8#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.368 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF134328.D

Acq: 17 Jul 2023 22:04

Instrument :

BNA_F

ClientSampleId :

RB-42-(5-7)

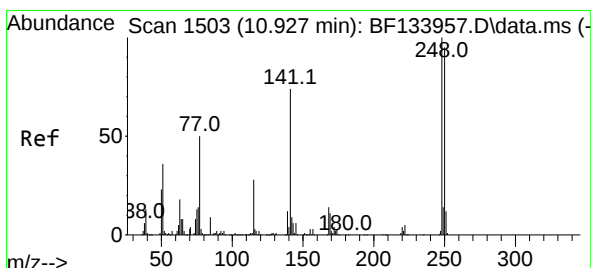
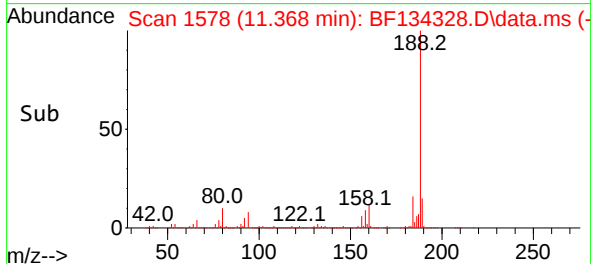
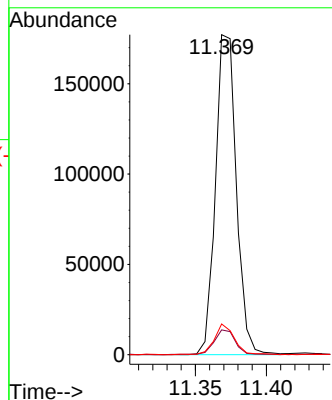
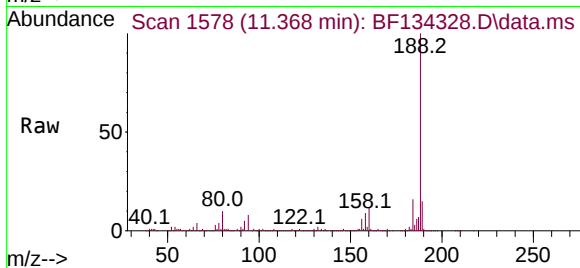
Tgt Ion:188 Resp: 180895

Ion Ratio Lower Upper

188 100

94 7.8 6.4 9.6

80 9.6 7.3 10.9



#67

4-Bromophenyl-phenylether

Concen: 3.535 ng

RT: 10.669 min Scan# 1459

Delta R.T. -0.247 min

Lab File: BF134328.D

Acq: 17 Jul 2023 22:04

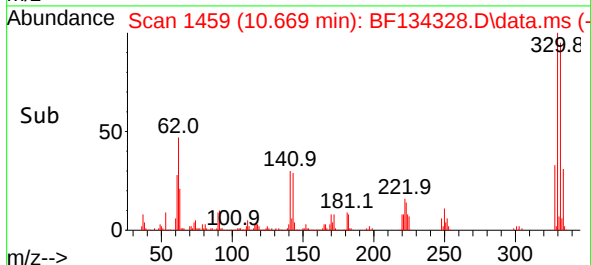
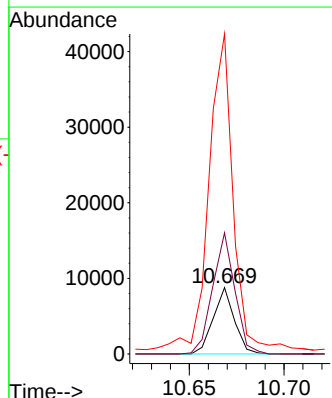
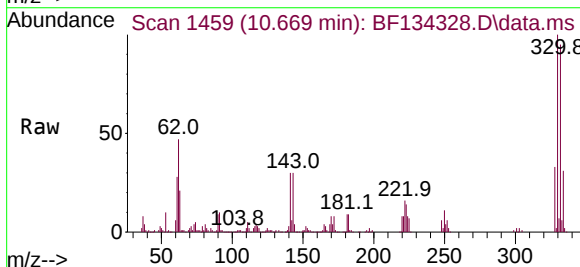
Tgt Ion:248 Resp: 6796

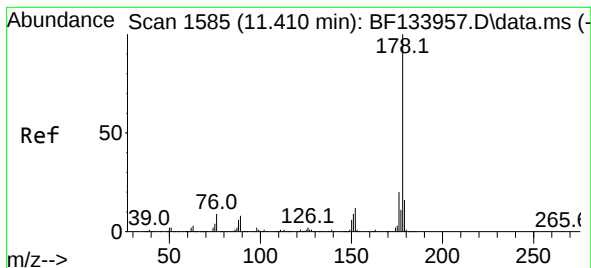
Ion Ratio Lower Upper

248 100

250 182.6 76.2 114.4#

141 482.2 59.0 88.4#





#71

Phenanthrene

Concen: 136.639 ng

RT: 11.404 min Scan# 1584

Delta R.T. -0.000 min

Lab File: BF134328.D

Acq: 17 Jul 2023 22:04

Instrument :

BNA_F

ClientSampleId :

RB-42-(5-7)

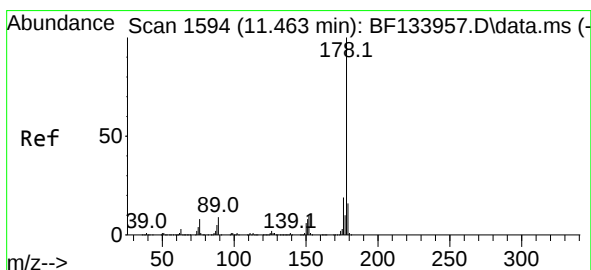
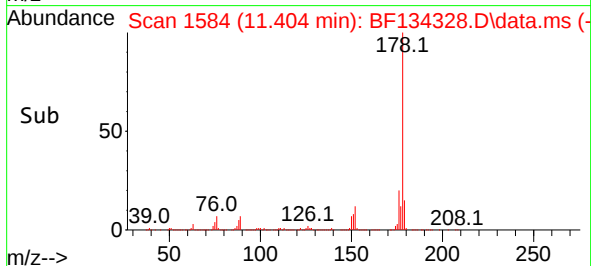
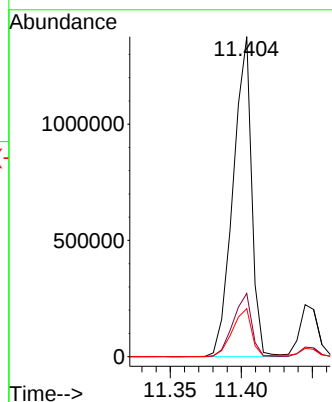
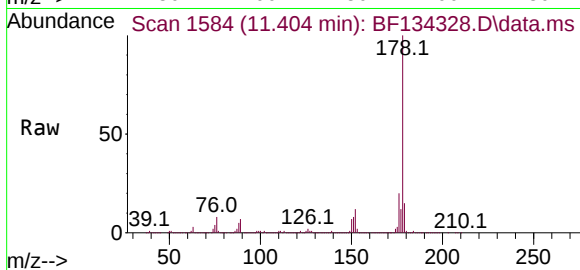
Tgt Ion:178 Resp: 1244309

Ion Ratio Lower Upper

178 100

176 19.8 16.0 24.0

179 15.0 12.4 18.6



#72

Anthracene

Concen: 21.320 ng

RT: 11.445 min Scan# 1591

Delta R.T. -0.012 min

Lab File: BF134328.D

Acq: 17 Jul 2023 22:04

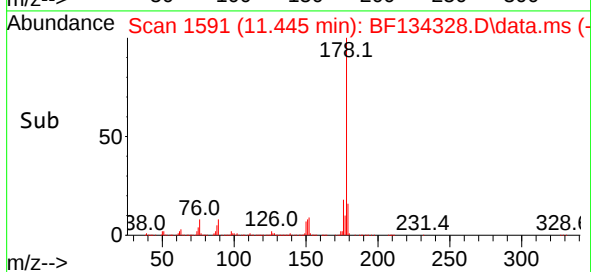
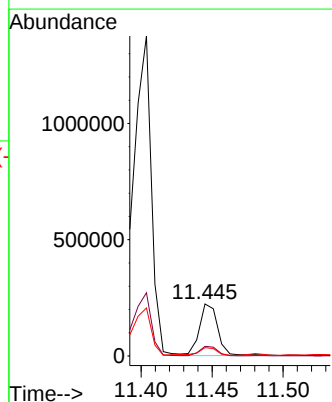
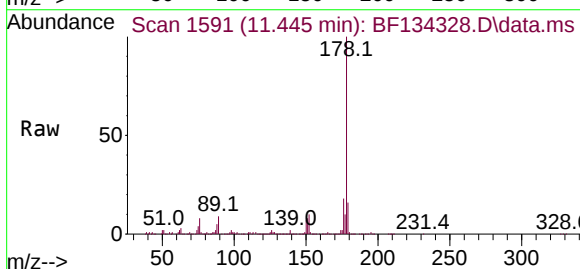
Tgt Ion:178 Resp: 201941

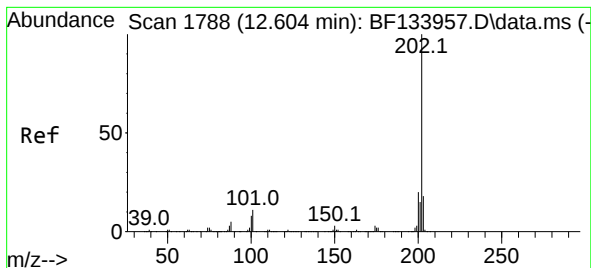
Ion Ratio Lower Upper

178 100

176 18.5 15.3 22.9

179 16.0 12.4 18.6





#75

Fluoranthene

Concen: 71.300 ng

RT: 12.598 min Scan# 1

Delta R.T. -0.000 min

Lab File: BF134328.D

Acq: 17 Jul 2023 22:04

Instrument :

BNA_F

ClientSampleId :

RB-42-(5-7)

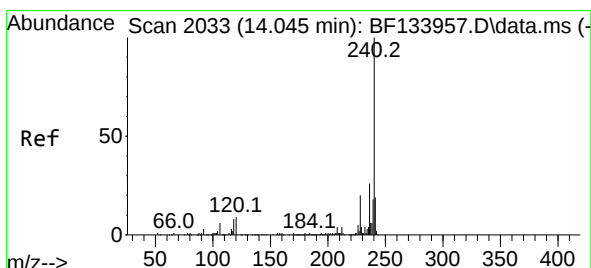
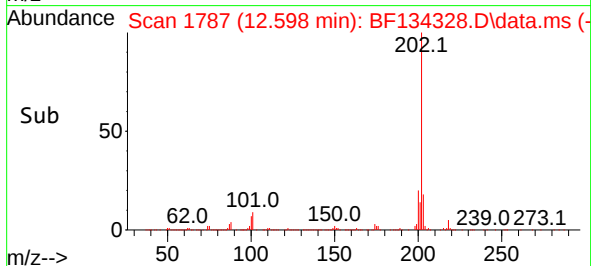
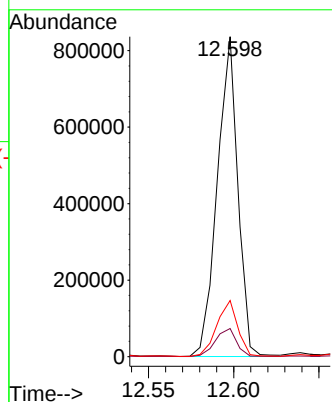
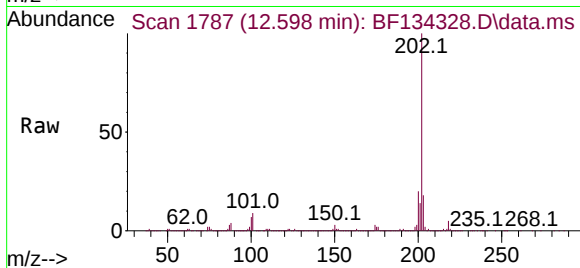
Tgt Ion:202 Resp: 701953

Ion Ratio Lower Upper

202 100

101 8.8 0.0 31.0

203 17.6 0.0 37.6



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.033 min Scan# 2031

Delta R.T. -0.006 min

Lab File: BF134328.D

Acq: 17 Jul 2023 22:04

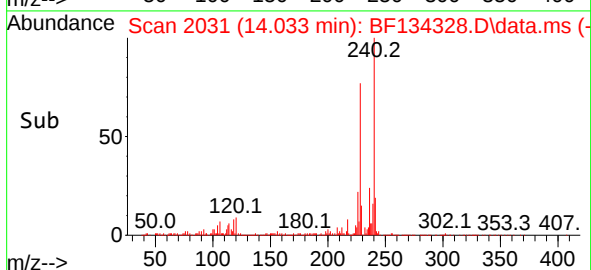
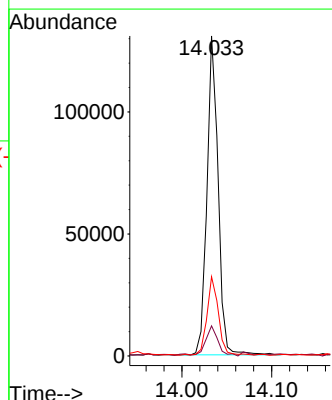
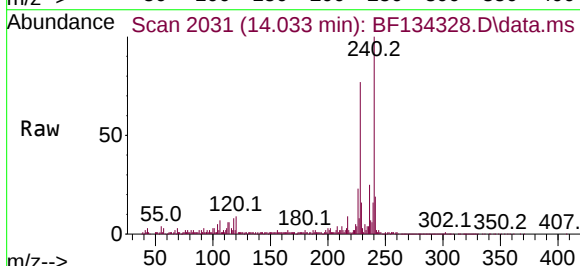
Tgt Ion:240 Resp: 112535

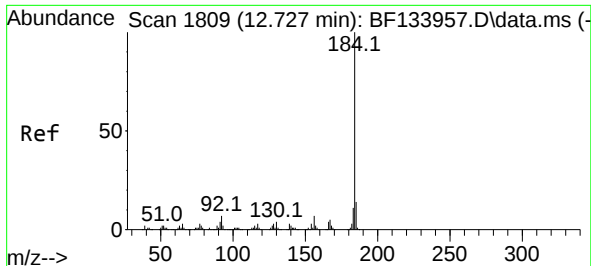
Ion Ratio Lower Upper

240 100

120 9.4 7.4 11.0

236 24.7 21.0 31.6

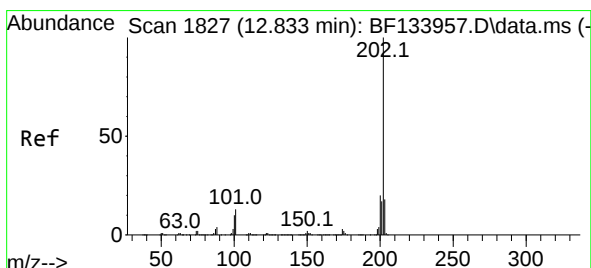
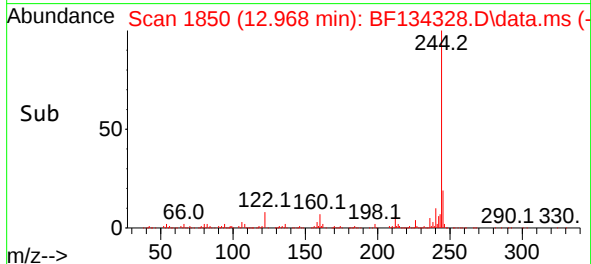
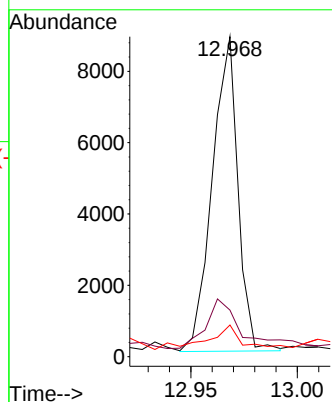
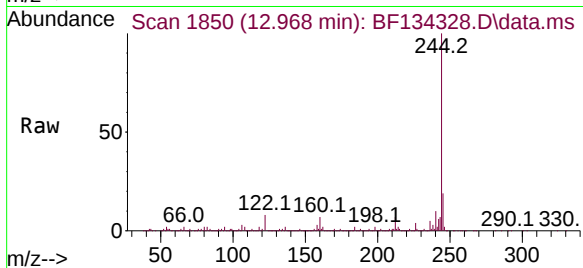




#77
Benzidine
Concen: 2.762 ng
RT: 12.968 min Scan# 1850
Delta R.T. 0.241 min
Lab File: BF134328.D
Acq: 17 Jul 2023 22:04

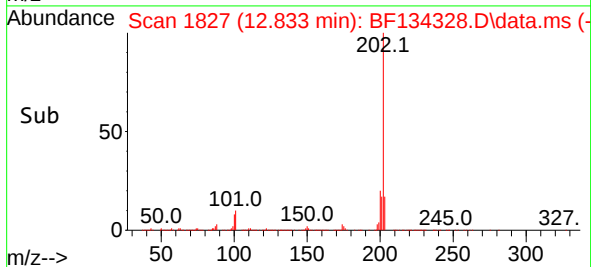
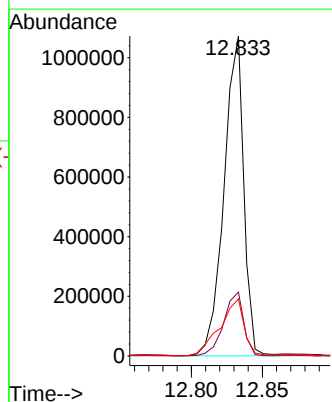
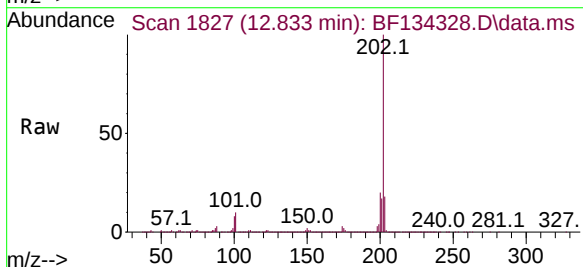
Instrument :
BNA_F
ClientSampleId :
RB-42-(5-7)

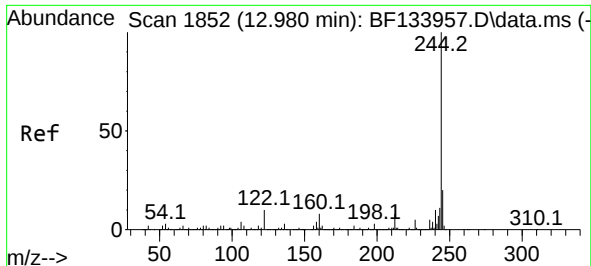
Tgt Ion:184 Resp: 7397
Ion Ratio Lower Upper
184 100
185 14.5 11.6 17.4
183 9.9 8.8 13.2



#78
Pyrene
Concen: 98.906 ng
RT: 12.833 min Scan# 1827
Delta R.T. -0.000 min
Lab File: BF134328.D
Acq: 17 Jul 2023 22:04

Tgt Ion:202 Resp: 1035833
Ion Ratio Lower Upper
202 100
200 20.0 16.1 24.1
203 17.8 14.3 21.5

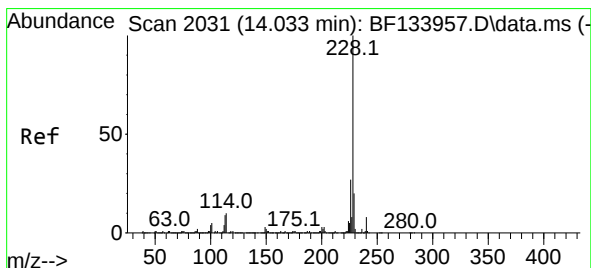
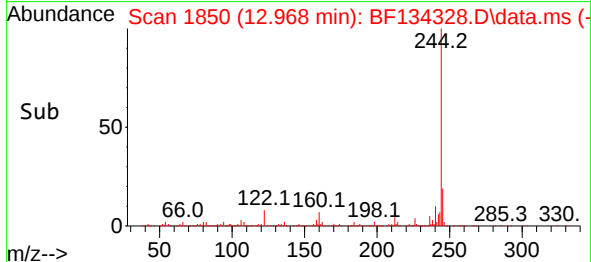
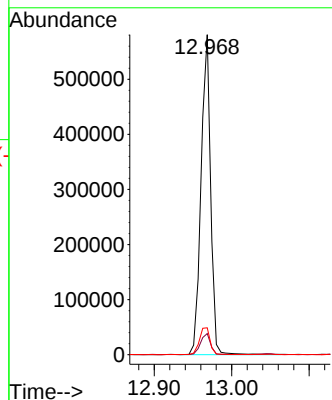
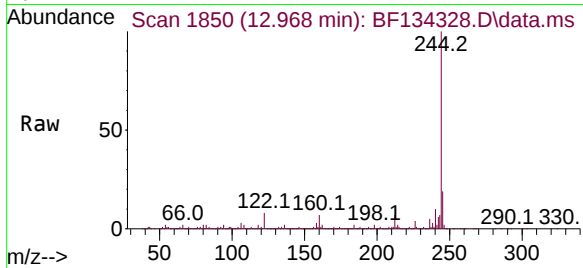




#79
 Terphenyl-d14
 Concen: 71.066 ng
 RT: 12.968 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: BF134328.D
 Acq: 17 Jul 2023 22:04

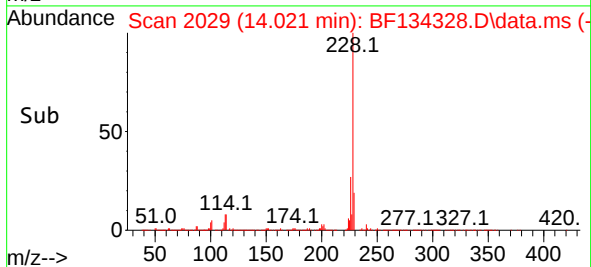
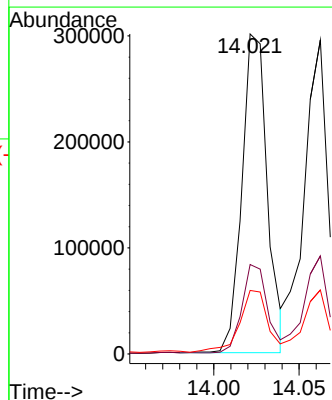
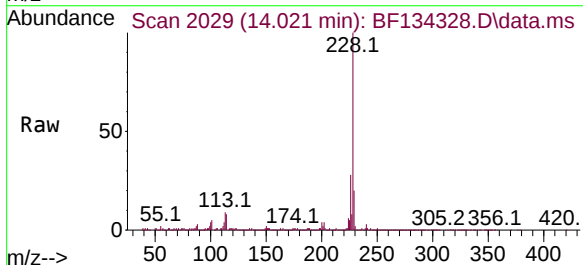
Instrument :
 BNA_F
 ClientSampleId :
 RB-42-(5-7)

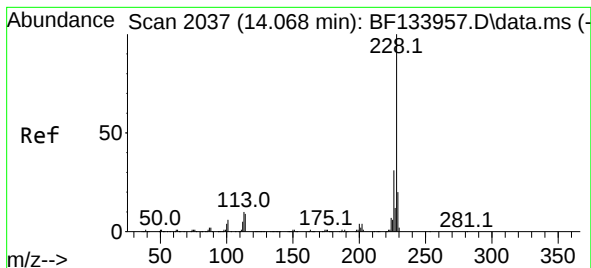
Tgt Ion:244 Resp: 496913
 Ion Ratio Lower Upper
 244 100
 212 6.6 6.0 9.0
 122 8.4 8.3 12.5



#81
 Benzo(a)anthracene
 Concen: 39.920 ng
 RT: 14.021 min Scan# 2029
 Delta R.T. -0.006 min
 Lab File: BF134328.D
 Acq: 17 Jul 2023 22:04

Tgt Ion:228 Resp: 311555
 Ion Ratio Lower Upper
 228 100
 226 27.9 22.0 33.0
 229 19.9 16.3 24.5





#83

Chrysene

Concen: 38.244 ng

RT: 14.062 min Scan# 2037

Delta R.T. -0.006 min

Lab File: BF134328.D

Acq: 17 Jul 2023 22:04

Instrument :

BNA_F

ClientSampleId :

RB-42-(5-7)

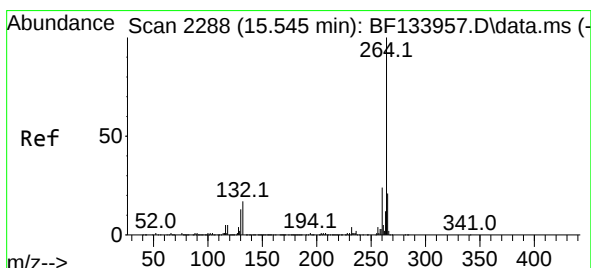
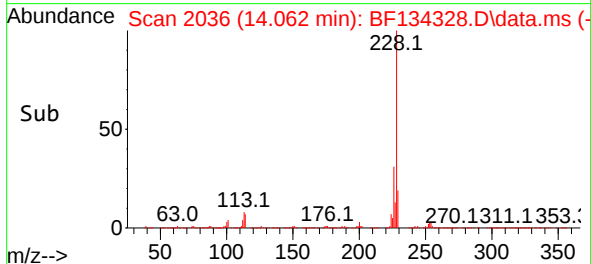
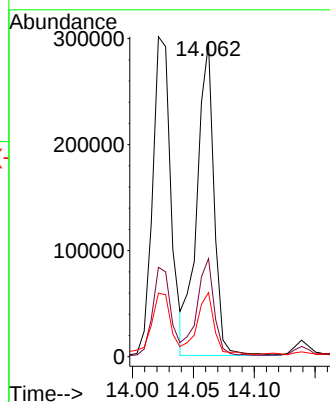
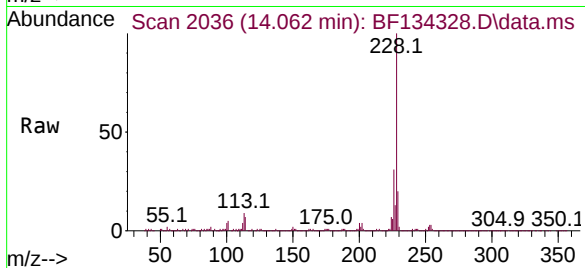
Tgt Ion:228 Resp: 289093

Ion Ratio Lower Upper

228 100

226 31.3 24.4 36.6

229 20.4 16.1 24.1



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.539 min Scan# 2287

Delta R.T. -0.006 min

Lab File: BF134328.D

Acq: 17 Jul 2023 22:04

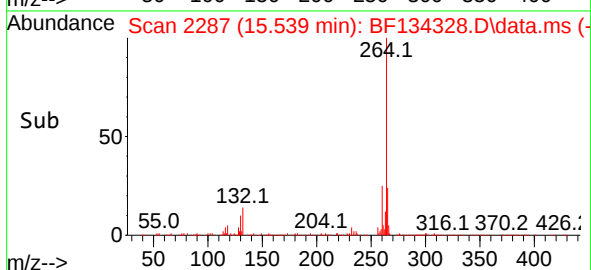
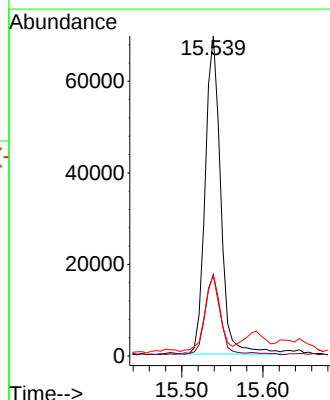
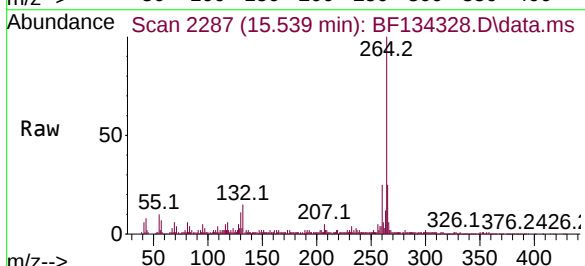
Tgt Ion:264 Resp: 92246

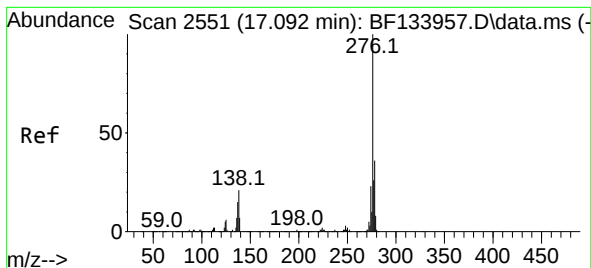
Ion Ratio Lower Upper

264 100

260 25.5 19.5 29.3

265 25.1 16.6 25.0#





#87

Indeno(1,2,3-cd)pyrene

Concen: 8.727 ng

RT: 17.080 min Scan# 21

Delta R.T. -0.018 min

Lab File: BF134328.D

Acq: 17 Jul 2023 22:04

Instrument :

BNA_F

ClientSampleId :

RB-42-(5-7)

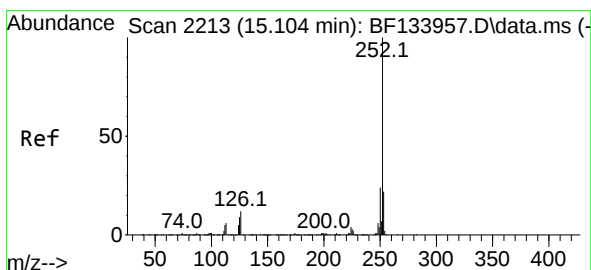
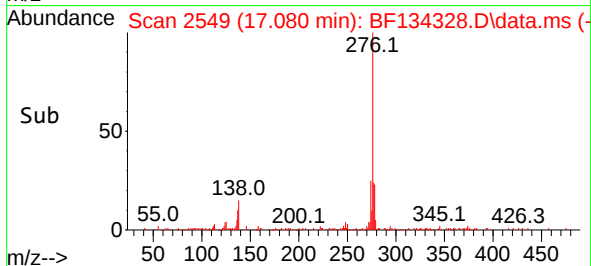
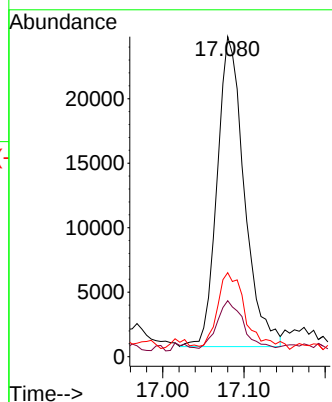
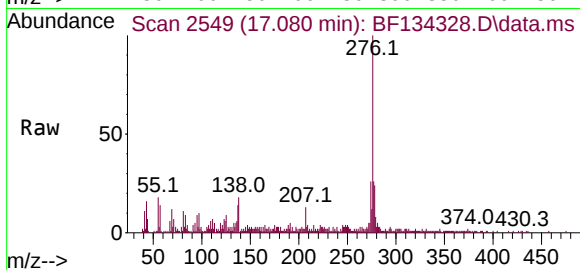
Tgt Ion:276 Resp: 55861

Ion Ratio Lower Upper

276 100

138 14.6 18.7 28.1#

277 25.8 19.9 29.9



#88

Benzo(b)fluoranthene

Concen: 39.379 ng

RT: 15.098 min Scan# 2212

Delta R.T. -0.006 min

Lab File: BF134328.D

Acq: 17 Jul 2023 22:04

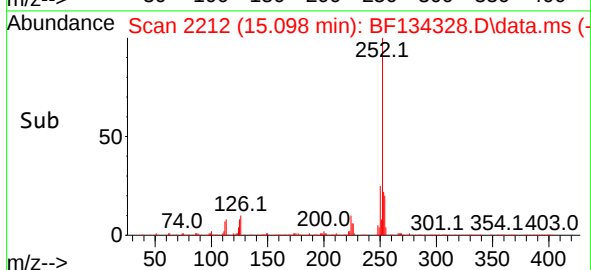
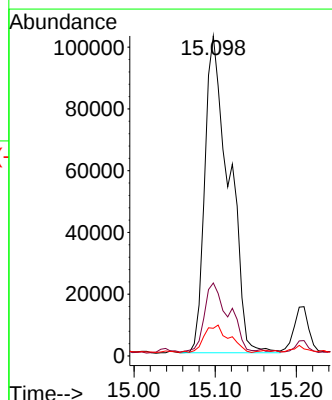
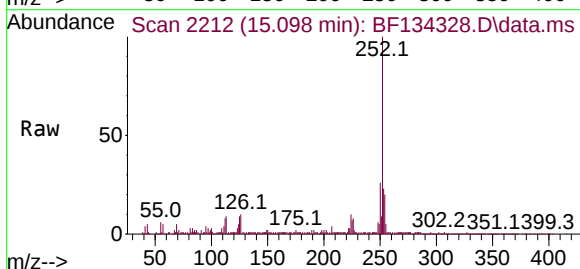
Tgt Ion:252 Resp: 213599

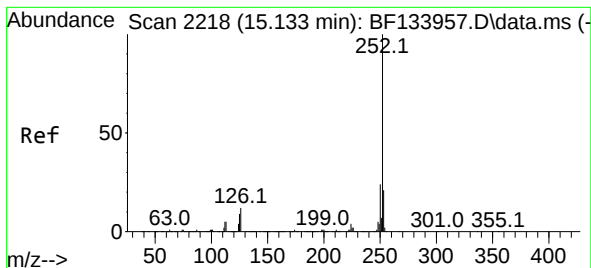
Ion Ratio Lower Upper

252 100

253 22.8 17.4 26.0

125 8.7 7.1 10.7





#89

Benzo(k)fluoranthene

Concen: 38.677 ng

RT: 15.098 min Scan# 21

Delta R.T. -0.035 min

Lab File: BF134328.D

Acq: 17 Jul 2023 22:04

Instrument :

BNA_F

ClientSampleId :

RB-42-(5-7)

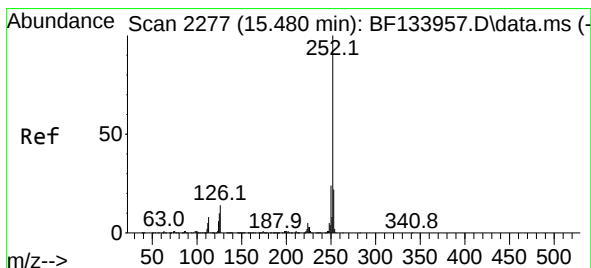
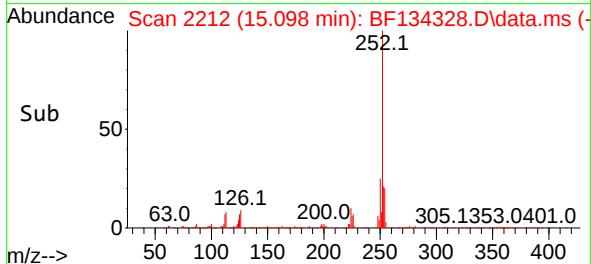
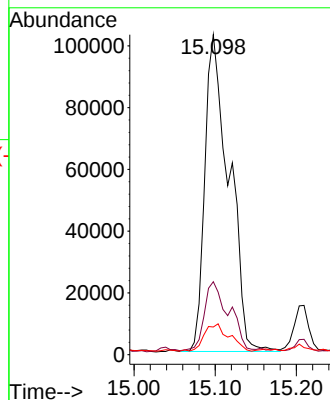
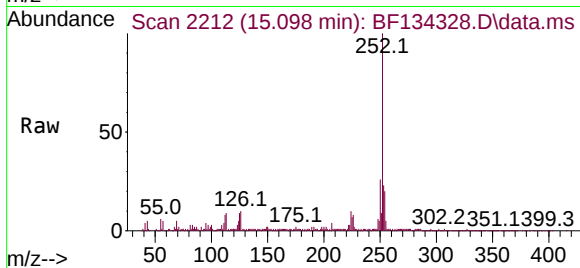
Tgt Ion:252 Resp: 213599

Ion Ratio Lower Upper

252 100

253 22.8 16.9 25.3

125 8.7 7.4 11.2



#90

Benzo(a)pyrene

Concen: 24.726 ng

RT: 15.474 min Scan# 2276

Delta R.T. -0.006 min

Lab File: BF134328.D

Acq: 17 Jul 2023 22:04

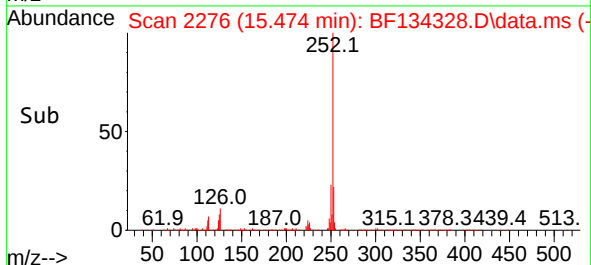
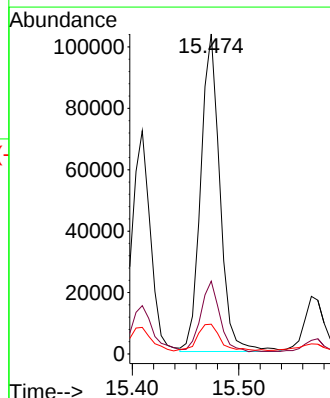
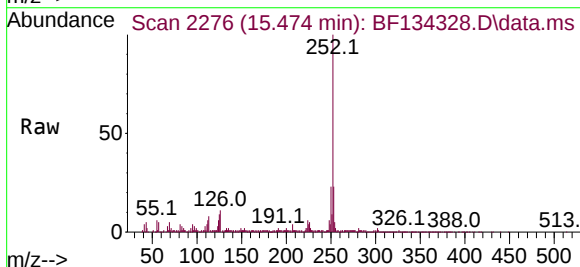
Tgt Ion:252 Resp: 129688

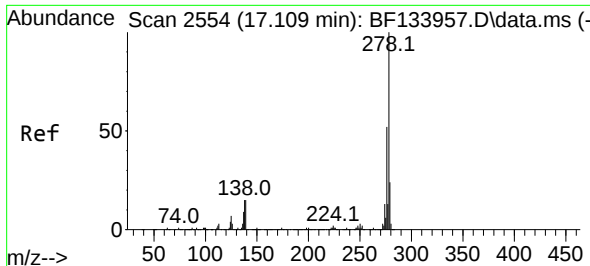
Ion Ratio Lower Upper

252 100

253 22.7 17.4 26.0

125 9.3 8.4 12.6

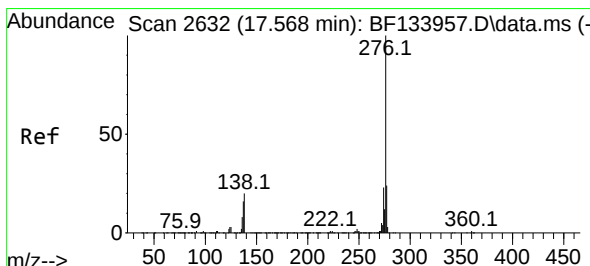
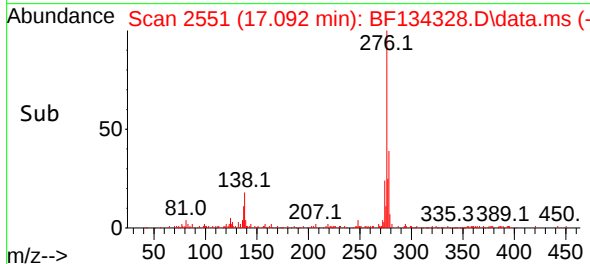
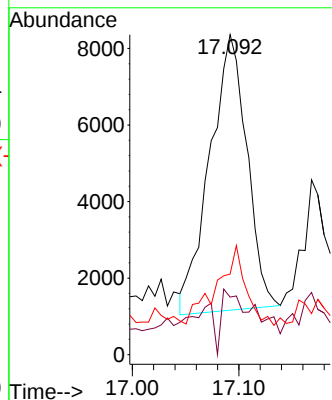
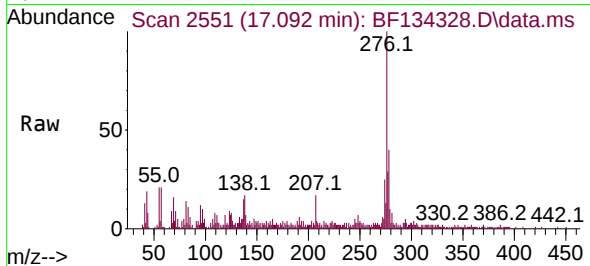




#91
Dibenzo(a,h)anthracene
Concen: 3.330 ng
RT: 17.092 min Scan# 21
Delta R.T. -0.018 min
Lab File: BF134328.D
Acq: 17 Jul 2023 22:04

Instrument :
BNA_F
ClientSampleId :
RB-42-(5-7)

Tgt Ion:278 Resp: 17408
Ion Ratio Lower Upper
278 100
139 18.0 12.2 18.4
279 25.2 19.4 29.2



#92
Benzo(g,h,i)perylene
Concen: 10.250 ng
RT: 17.550 min Scan# 2629
Delta R.T. -0.018 min
Lab File: BF134328.D
Acq: 17 Jul 2023 22:04

Tgt Ion:276 Resp: 55263
Ion Ratio Lower Upper
276 100
277 25.4 19.0 28.6
138 21.6 16.2 24.2

