

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071723\
 Data File : BF134327.D
 Acq On : 17 Jul 2023 21:31
 Operator : CG\JU
 Sample : 03597-03
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RB-43-(0-2)

Quant Time: Jul 18 01:17:20 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)

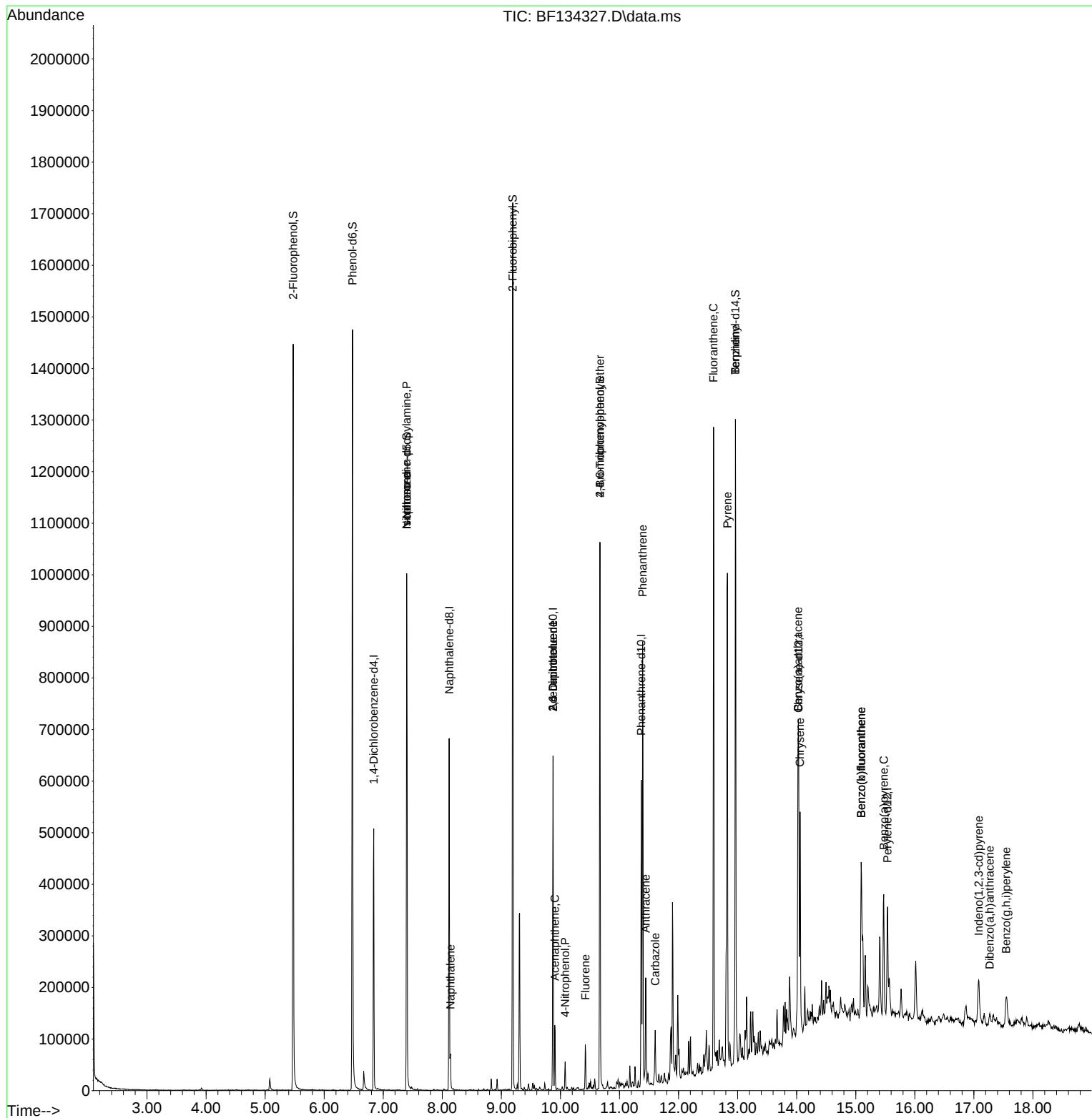
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.840	152	72833	20.000	ng	0.00
21) Naphthalene-d8	8.116	136	261585	20.000	ng	0.00
39) Acenaphthene-d10	9.875	164	113686	20.000	ng	0.00
64) Phenanthrene-d10	11.369	188	204548	20.000	ng	0.00
76) Chrysene-d12	14.033	240	126004	20.000	ng	0.00
86) Perylene-d12	15.539	264	101276	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.475	112	356538	81.887	ng	0.00
7) Phenol-d6	6.481	99	426866	79.719	ng	0.00
23) Nitrobenzene-d5	7.398	82	277724	57.231	ng	-0.01
42) 2,4,6-Tribromophenol	10.669	330	116965	82.058	ng	-0.01
45) 2-Fluorobiphenyl	9.192	172	457067	58.453	ng	-0.01
79) Terphenyl-d14	12.963	244	420688	53.733	ng	-0.01
Target Compounds						Qvalue
9) Benzaldehyde	6.481	77	804	Below Cal	#	1
19) n-Nitroso-di-n-propyla...	7.398	70	40153	11.825	ng	# 72
25) Isophorone	7.398	82	277721	31.490	ng	# 64
31) Naphthalene	8.139	128	25989	2.057	ng	# 95
51) 2,6-Dinitrotoluene	9.875	165	14857	8.359	ng	# 22
52) Acenaphthene	9.904	154	25488	3.854	ng	# 95
56) 4-Nitrophenol	10.080	139	6918	4.638	ng	# 4
57) 2,4-Dinitrotoluene	9.875	165	14857	6.329	ng	# 21
58) Fluorene	10.422	166	24550	3.053	ng	# 97
67) 4-Bromophenyl-phenylether	10.669	248	7138	3.283	ng	# 1
71) Phenanthrene	11.392	178	309231	30.030	ng	# 99
72) Anthracene	11.445	178	70552	6.587	ng	# 99
73) Carbazole	11.604	167	39545	4.034	ng	# 99
75) Fluoranthene	12.592	202	493476	44.328	ng	# 98
77) Benzidine	12.963	184	6247	2.084	ng	# 88
78) Pyrene	12.827	202	434216	37.029	ng	# 99
81) Benzo(a)anthracene	14.021	228	192620	22.042	ng	# 99
83) Chrysene	14.057	228	162924	19.249	ng	# 97
87) Indeno(1,2,3-cd)pyrene	17.080	276	69521	9.893	ng	# 91
88) Benzo(b)fluoranthene	15.092	252	234304	39.345	ng	# 100
89) Benzo(k)fluoranthene	15.092	252	234304	38.643	ng	# 99
90) Benzo(a)pyrene	15.474	252	120744	20.968	ng	# 96
91) Dibenzo(a,h)anthracene	17.268	278	13682	2.384	ng	# 94
92) Benzo(g,h,i)perylene	17.545	276	63312	10.696	ng	# 95

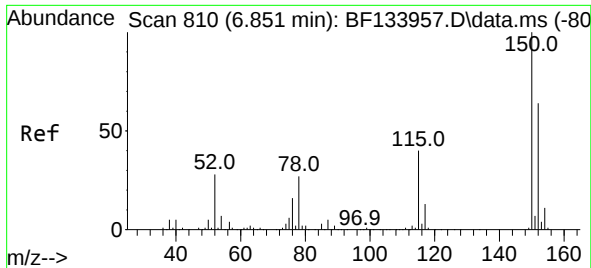
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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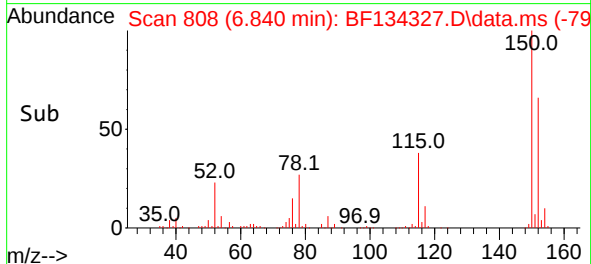
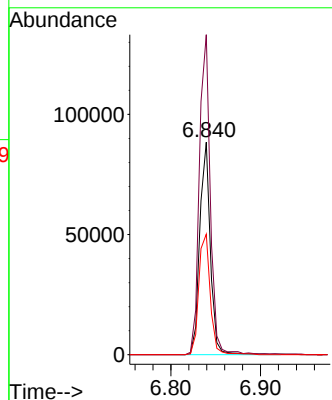
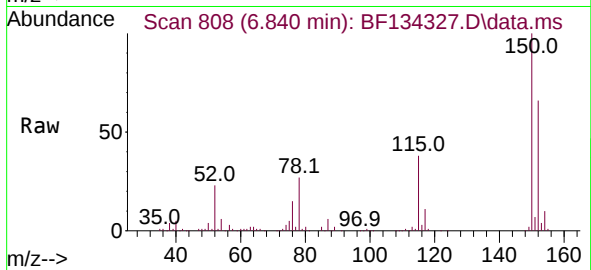




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.840 min Scan# 810
Delta R.T. -0.005 min
Lab File: BF134327.D
Acq: 17 Jul 2023 21:31

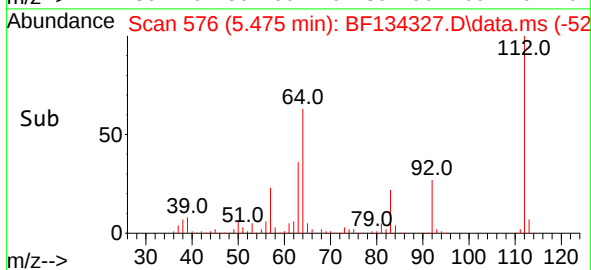
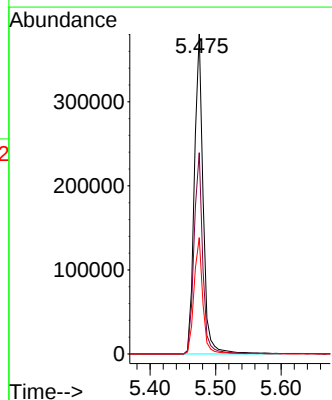
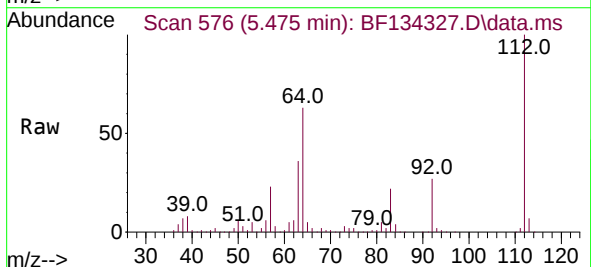
Instrument :
BNA_F
ClientSampleId :
RB-43-(0-2)

Tgt Ion:152 Resp: 72833
Ion Ratio Lower Upper
152 100
150 150.6 124.5 186.7
115 56.7 50.2 75.2



#5
2-Fluorophenol
Concen: 81.887 ng
RT: 5.475 min Scan# 576
Delta R.T. 0.006 min
Lab File: BF134327.D
Acq: 17 Jul 2023 21:31

Tgt Ion:112 Resp: 356538
Ion Ratio Lower Upper
112 100
64 62.9 52.1 78.1
63 36.4 28.6 42.8

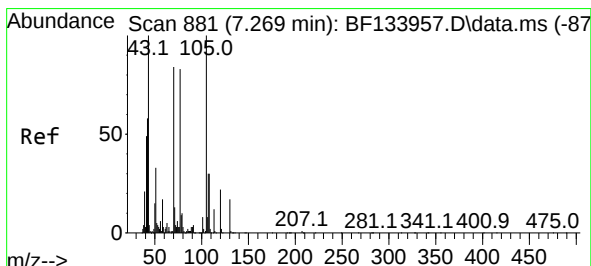
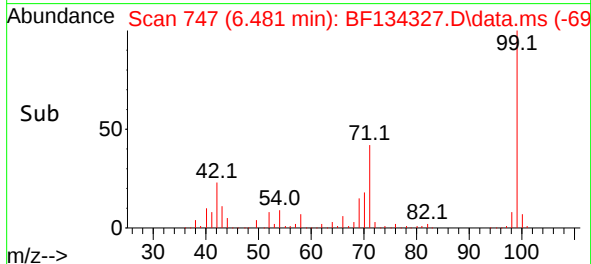
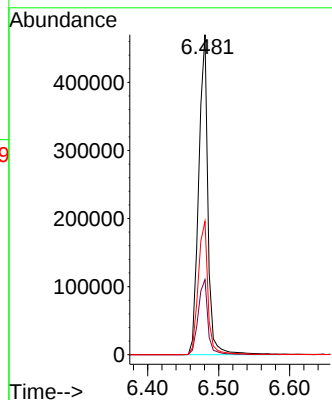
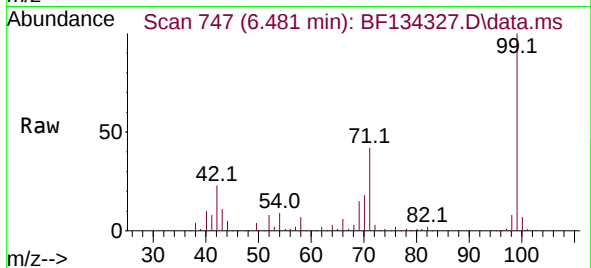




#7
Phenol-d6
Concen: 79.719 ng
RT: 6.481 min Scan# 74
Delta R.T. -0.006 min
Lab File: BF134327.D
Acq: 17 Jul 2023 21:31

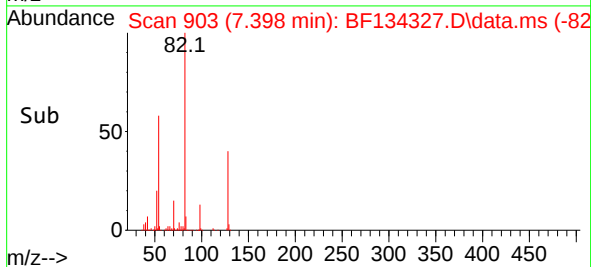
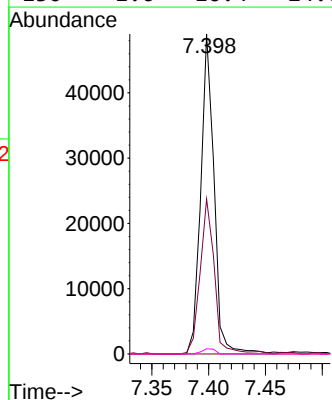
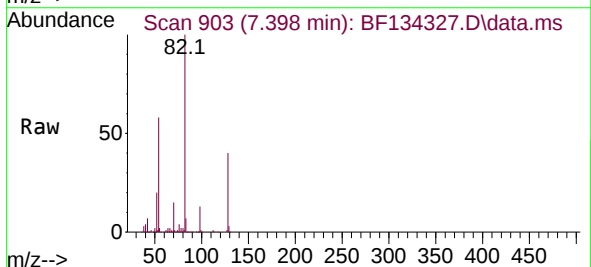
Instrument :
BNA_F
ClientSampleId :
RB-43-(0-2)

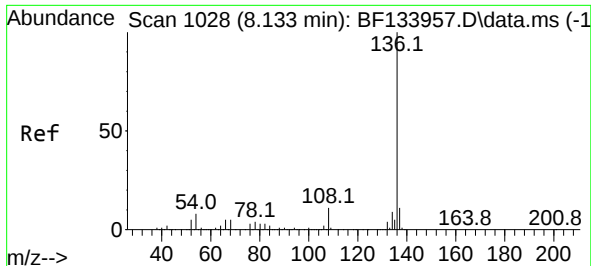
Tgt Ion: 99 Resp: 426866
Ion Ratio Lower Upper
99 100
42 23.4 19.8 29.6
71 41.7 31.9 47.9



#19
n-Nitroso-di-n-propylamine
Concen: 11.825 ng
RT: 7.398 min Scan# 903
Delta R.T. 0.141 min
Lab File: BF134327.D
Acq: 17 Jul 2023 21:31

Tgt Ion: 70 Resp: 40153
Ion Ratio Lower Upper
70 100
42 48.4 54.7 82.1#
101 0.0 7.7 11.5#
130 1.6 16.4 24.6#



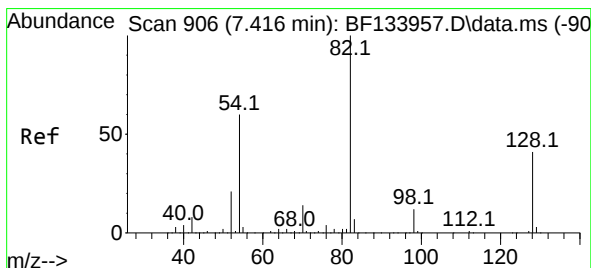
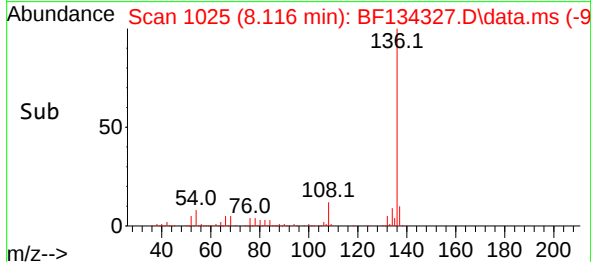
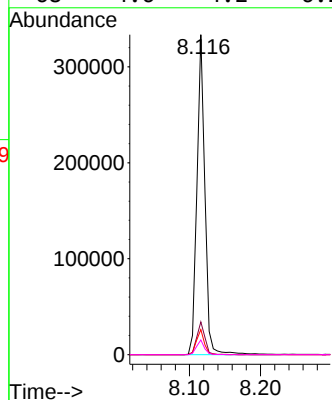
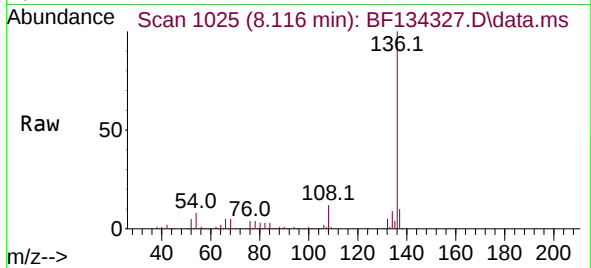


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.116 min Scan# 1025
Delta R.T. -0.006 min
Lab File: BF134327.D
Acq: 17 Jul 2023 21:31

Instrument :
BNA_F
ClientSampleId :
RB-43-(0-2)

Tgt Ion:136 Resp: 261585

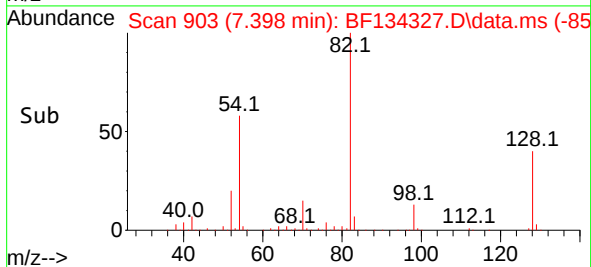
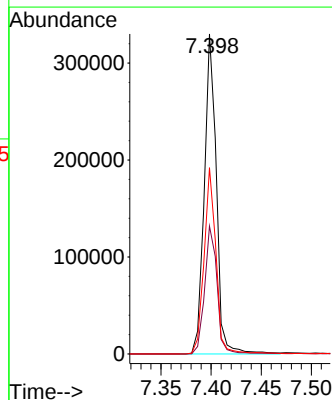
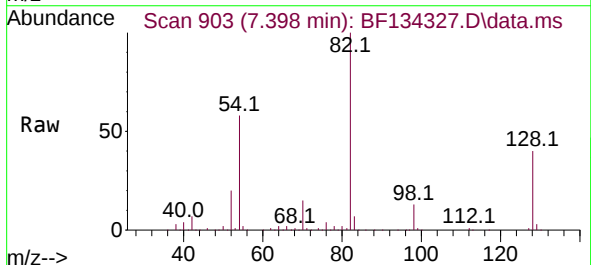
Ion	Ratio	Lower	Upper
136	100		
137	10.3	8.6	12.8
54	7.9	6.5	9.7
68	4.6	4.2	6.2

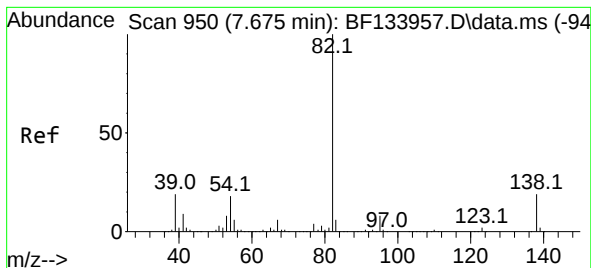


#23
Nitrobenzene-d5
Concen: 57.231 ng
RT: 7.398 min Scan# 903
Delta R.T. -0.012 min
Lab File: BF134327.D
Acq: 17 Jul 2023 21:31

Tgt Ion: 82 Resp: 277724

Ion	Ratio	Lower	Upper
82	100		
128	40.0	32.5	48.7
54	58.2	48.2	72.2





#25

Isophorone

Concen: 31.490 ng

RT: 7.398 min Scan# 90

Delta R.T. -0.265 min

Lab File: BF134327.D

Acq: 17 Jul 2023 21:31

Instrument :

BNA_F

ClientSampleId :

RB-43-(0-2)

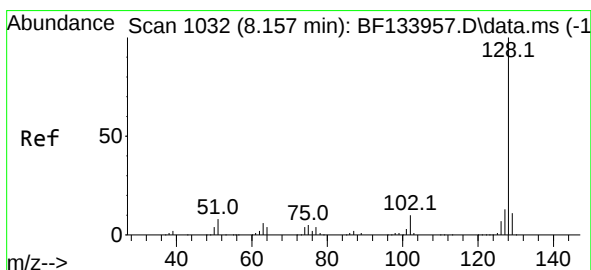
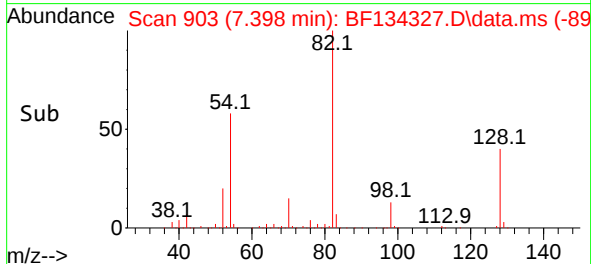
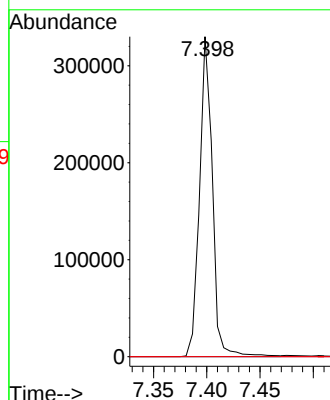
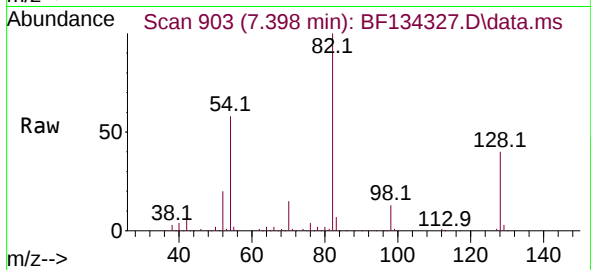
Tgt Ion: 82 Resp: 277721

Ion Ratio Lower Upper

82 100

95 0.0 6.1 9.1#

138 0.0 15.2 22.8#



#31

Naphthalene

Concen: 2.057 ng

RT: 8.139 min Scan# 1029

Delta R.T. -0.006 min

Lab File: BF134327.D

Acq: 17 Jul 2023 21:31

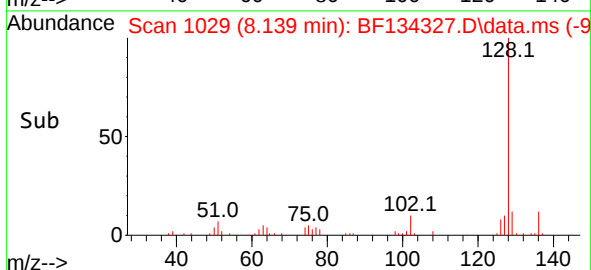
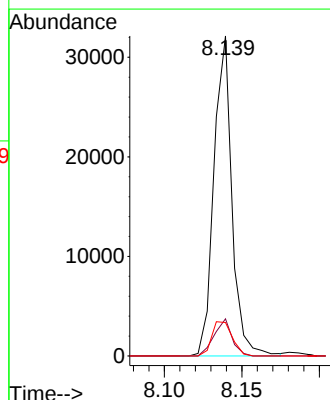
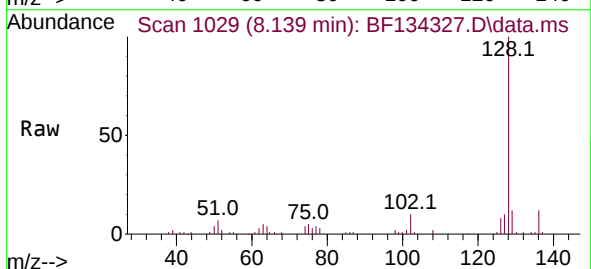
Tgt Ion:128 Resp: 25989

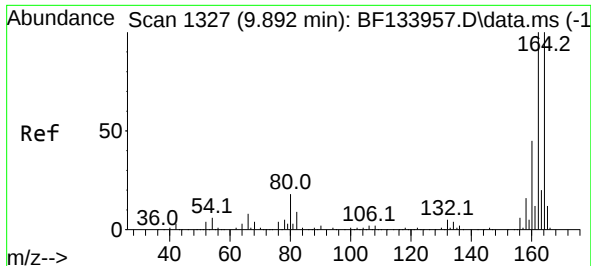
Ion Ratio Lower Upper

128 100

129 11.6 8.7 13.1

127 10.5 10.6 15.8#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.875 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF134327.D

Acq: 17 Jul 2023 21:31

Instrument :

BNA_F

ClientSampleId :

RB-43-(0-2)

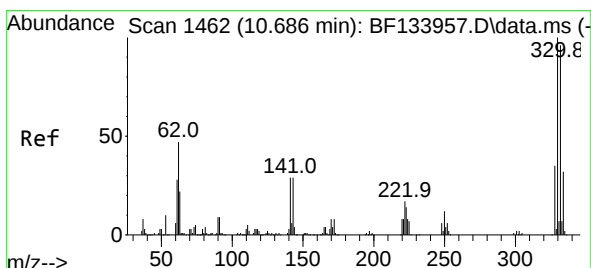
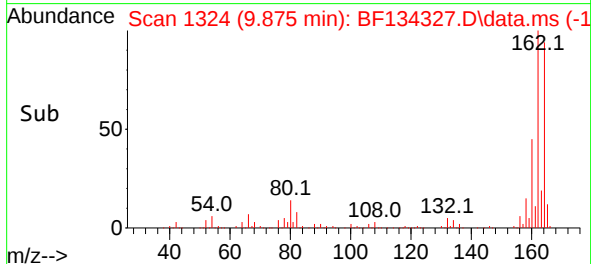
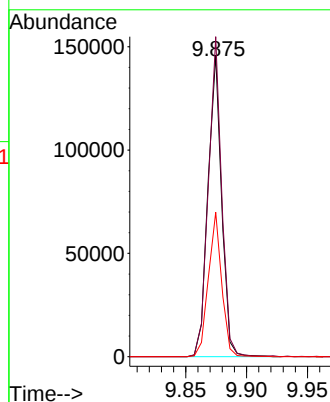
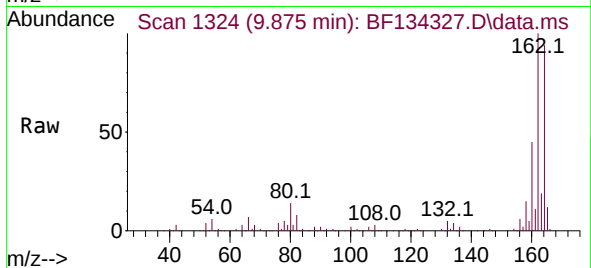
Tgt Ion:164 Resp: 113686

Ion Ratio Lower Upper

164 100

162 106.1 80.0 120.0

160 47.9 35.9 53.9



#42

2,4,6-Tribromophenol

Concen: 82.058 ng

RT: 10.669 min Scan# 1459

Delta R.T. -0.012 min

Lab File: BF134327.D

Acq: 17 Jul 2023 21:31

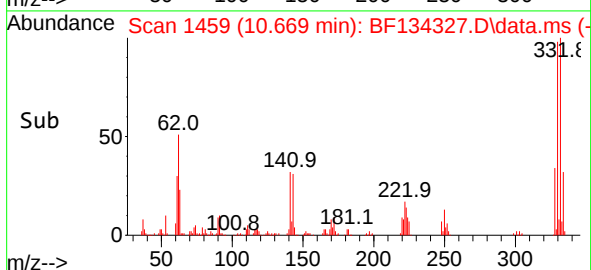
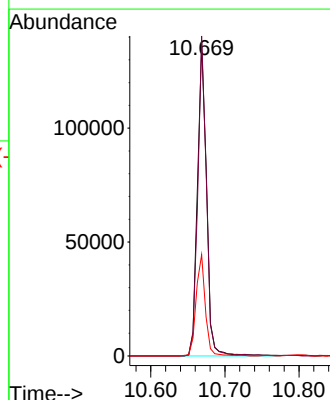
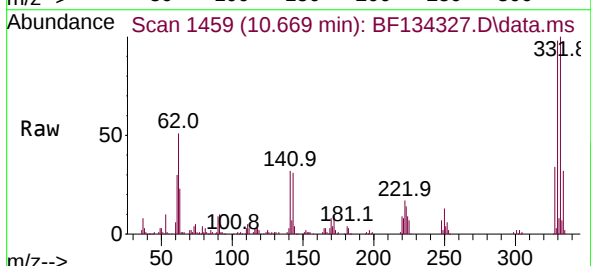
Tgt Ion:330 Resp: 116965

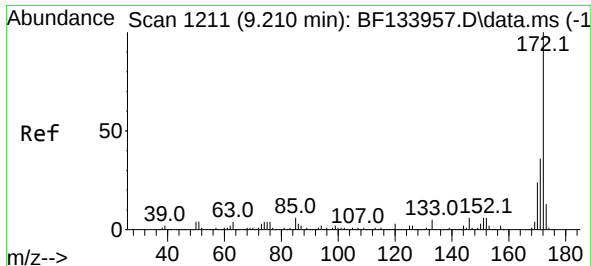
Ion Ratio Lower Upper

330 100

332 97.6 77.0 115.6

141 32.9 26.3 39.5





#45

2-Fluorobiphenyl

Concen: 58.453 ng

RT: 9.192 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF134327.D

Acq: 17 Jul 2023 21:31

Instrument :

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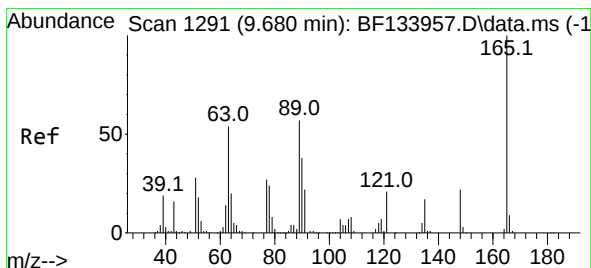
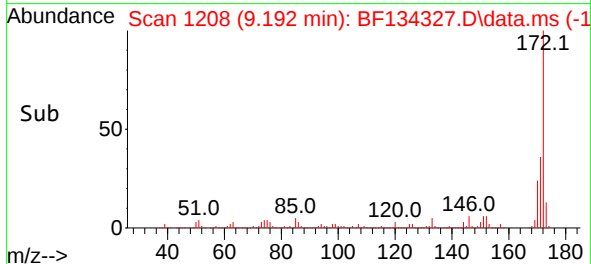
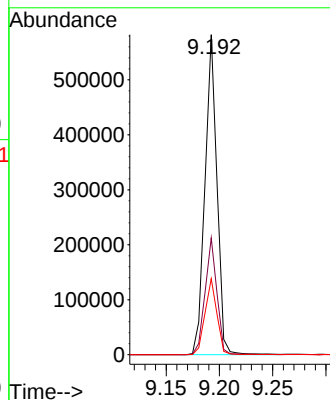
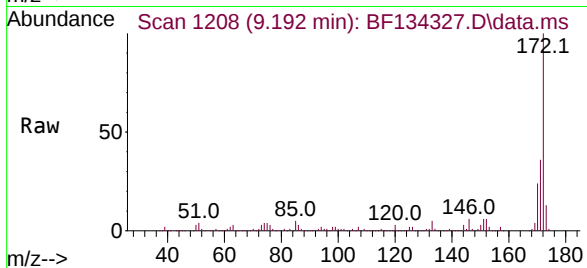
Tgt Ion:172 Resp: 457067

Ion Ratio Lower Upper

172 100

171 36.5 28.6 43.0

170 23.8 19.4 29.0



#51

2,6-Dinitrotoluene

Concen: 8.359 ng

RT: 9.875 min Scan# 1324

Delta R.T. 0.200 min

Lab File: BF134327.D

Acq: 17 Jul 2023 21:31

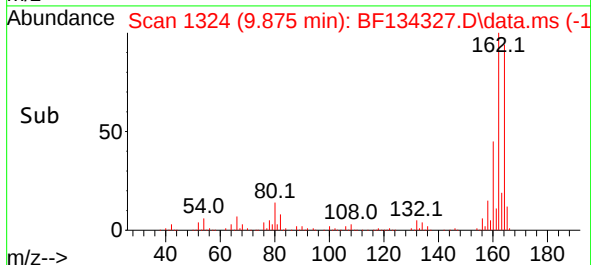
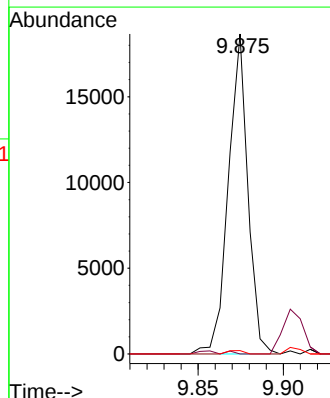
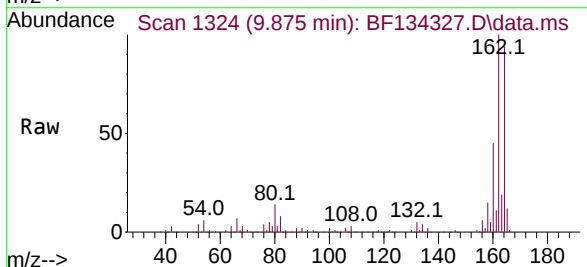
Tgt Ion:165 Resp: 14857

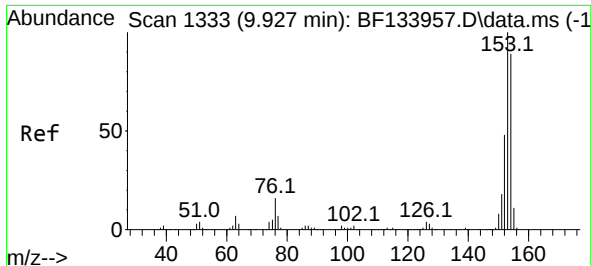
Ion Ratio Lower Upper

165 100

63 0.0 48.5 72.7#

89 1.1 45.5 68.3#

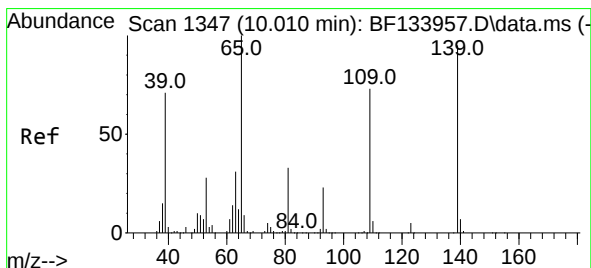
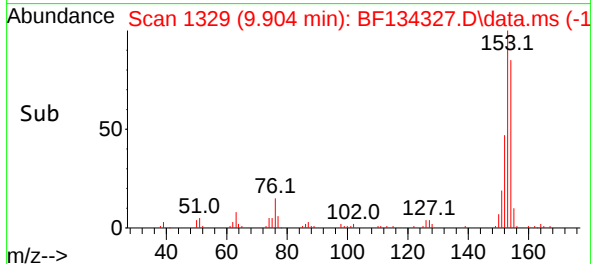
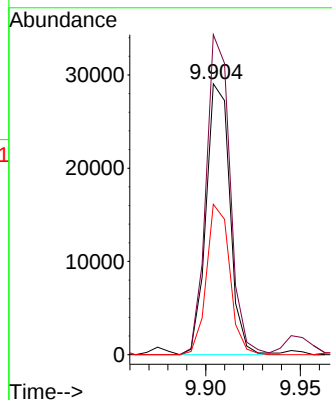
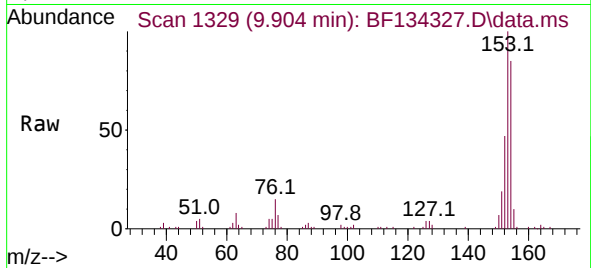




#52
Acenaphthene
Concen: 3.854 ng
RT: 9.904 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF134327.D
Acq: 17 Jul 2023 21:31

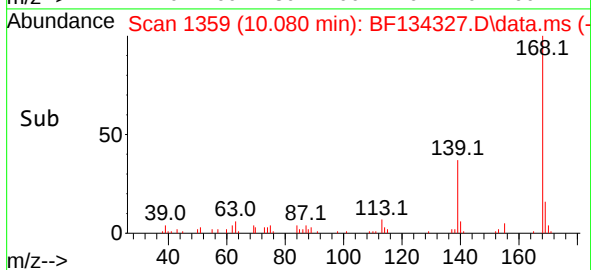
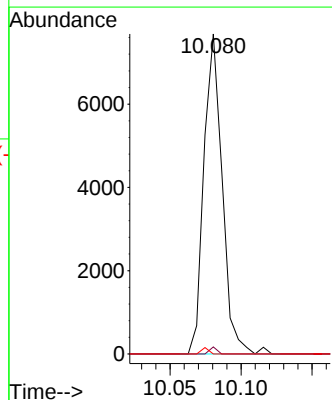
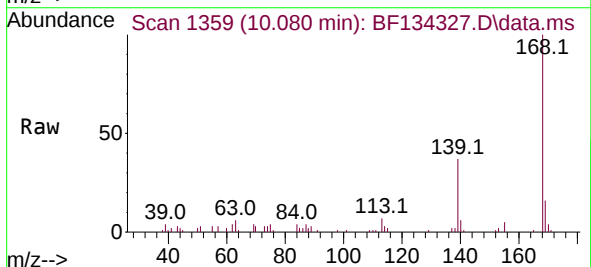
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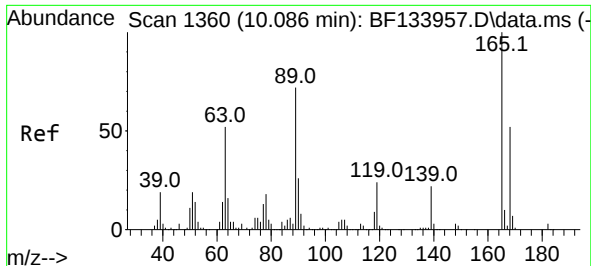
Tgt Ion:154 Resp: 25488
Ion Ratio Lower Upper
154 100
153 118.1 89.4 134.2
152 55.5 42.8 64.2



#56
4-Nitrophenol
Concen: 4.638 ng
RT: 10.080 min Scan# 1359
Delta R.T. 0.071 min
Lab File: BF134327.D
Acq: 17 Jul 2023 21:31

Tgt Ion:139 Resp: 6918
Ion Ratio Lower Upper
139 100
109 2.2 56.8 96.8#
65 0.0 86.1 126.1#

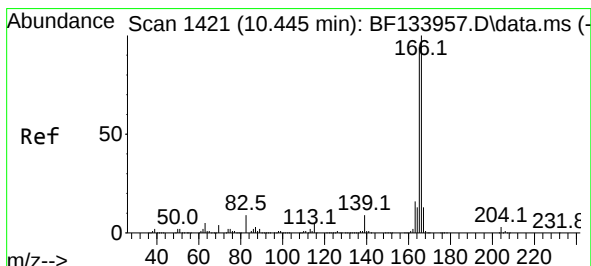
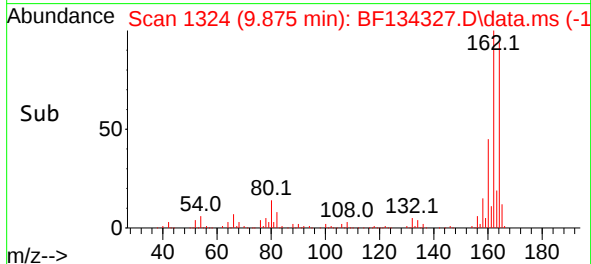
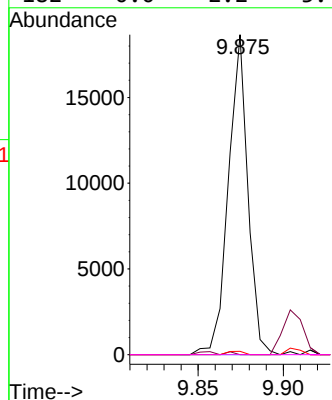
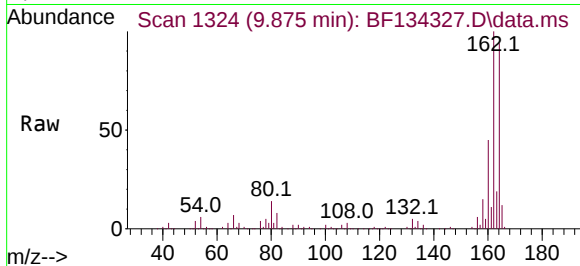




#57
2,4-Dinitrotoluene
Concen: 6.329 ng
RT: 9.875 min Scan# 11
Delta R.T. -0.206 min
Lab File: BF134327.D
Acq: 17 Jul 2023 21:31

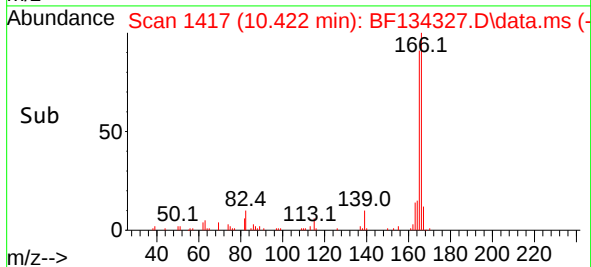
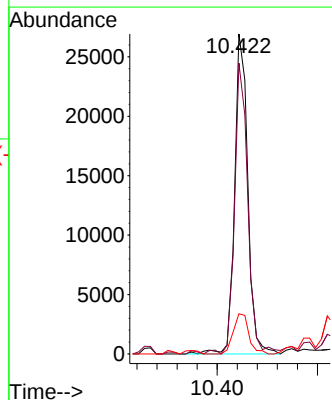
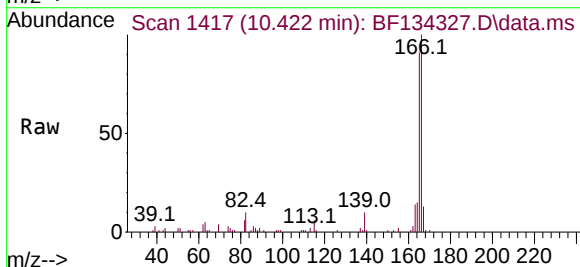
Instrument :
BNA_F
ClientSampleId :
RB-43-(0-2)

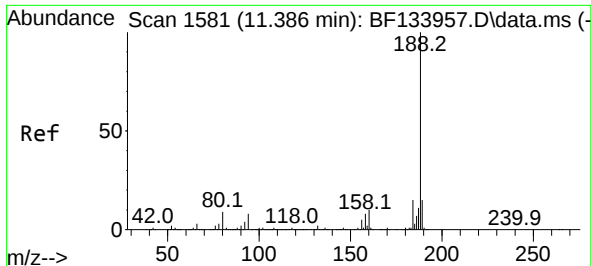
Tgt Ion:165 Resp: 14857
Ion Ratio Lower Upper
165 100
63 0.0 42.2 63.2#
89 1.1 57.4 86.2#
182 0.0 2.2 3.4#



#58
Fluorene
Concen: 3.053 ng
RT: 10.422 min Scan# 1417
Delta R.T. -0.012 min
Lab File: BF134327.D
Acq: 17 Jul 2023 21:31

Tgt Ion:166 Resp: 24550
Ion Ratio Lower Upper
166 100
165 90.9 75.0 112.4
167 12.6 10.6 15.8

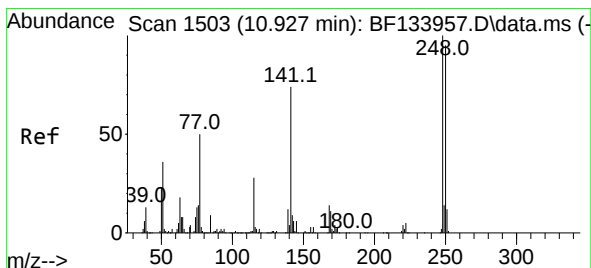
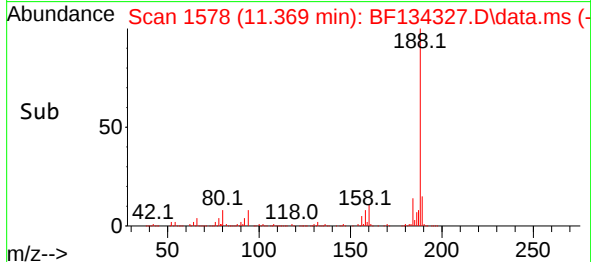
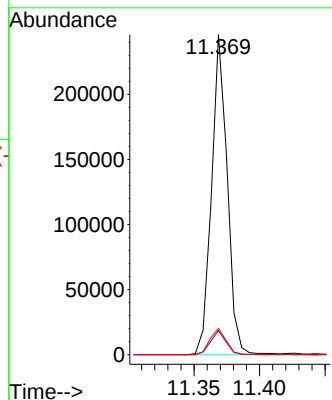
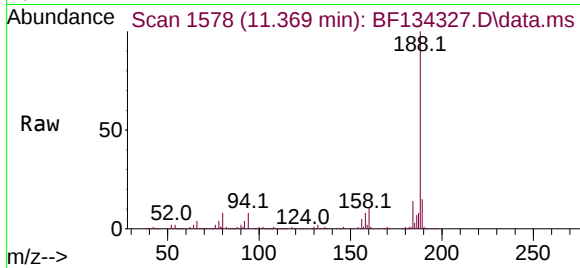




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.369 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF134327.D
Acq: 17 Jul 2023 21:31

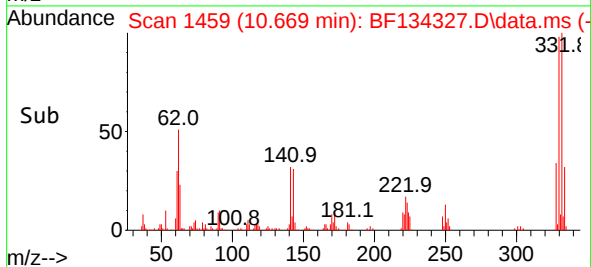
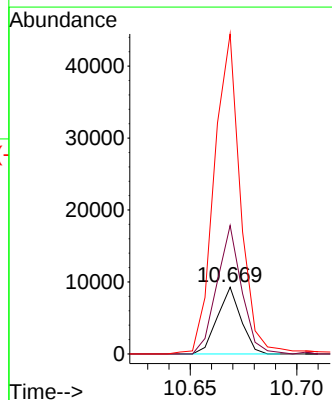
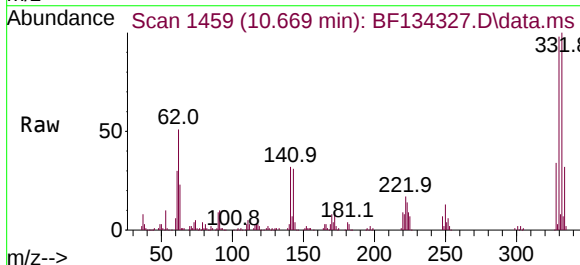
Instrument :
BNA_F
ClientSampleId :
RB-43-(0-2)

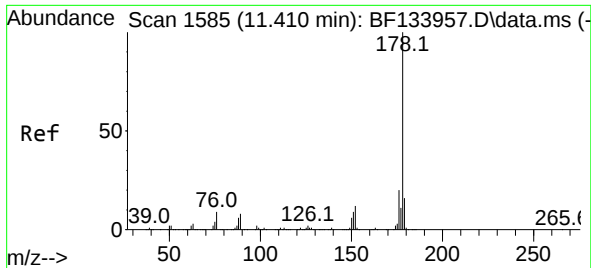
Tgt Ion:188 Resp: 204548
Ion Ratio Lower Upper
188 100
94 7.5 6.4 9.6
80 8.2 7.3 10.9



#67
4-Bromophenyl-phenylether
Concen: 3.283 ng
RT: 10.669 min Scan# 1459
Delta R.T. -0.247 min
Lab File: BF134327.D
Acq: 17 Jul 2023 21:31

Tgt Ion:248 Resp: 7138
Ion Ratio Lower Upper
248 100
250 192.7 76.2 114.4#
141 479.8 59.0 88.4#

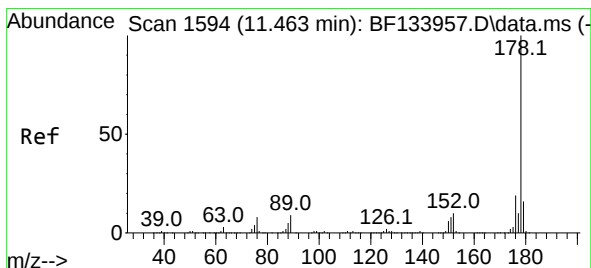
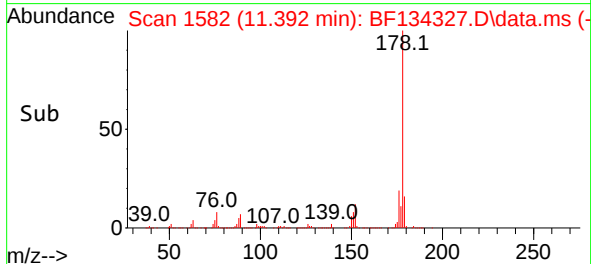
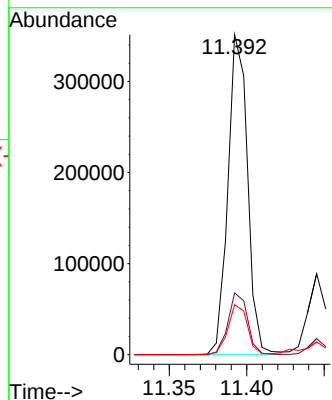
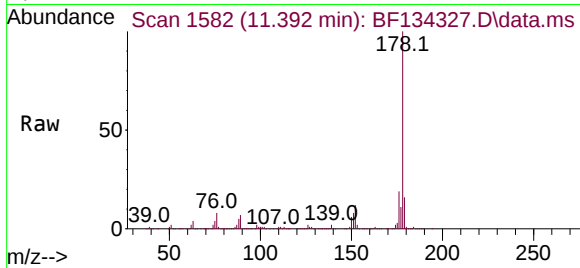




#71
Phenanthrene
Concen: 30.030 ng
RT: 11.392 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF134327.D
Acq: 17 Jul 2023 21:31

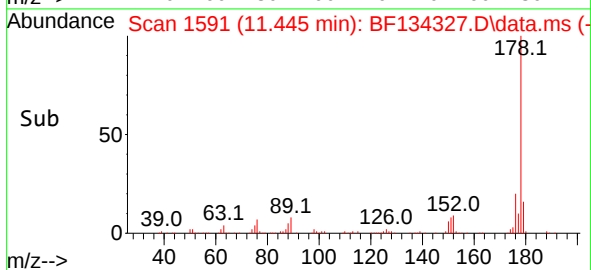
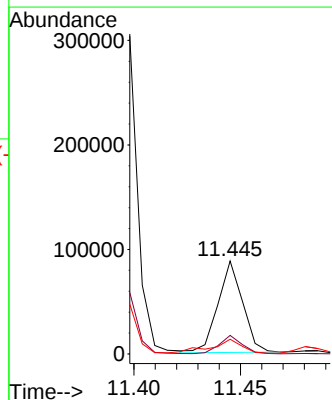
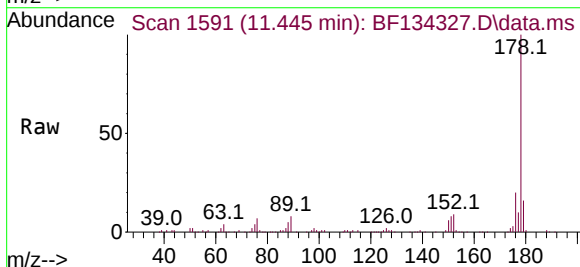
Instrument :
BNA_F
ClientSampleId :
RB-43-(0-2)

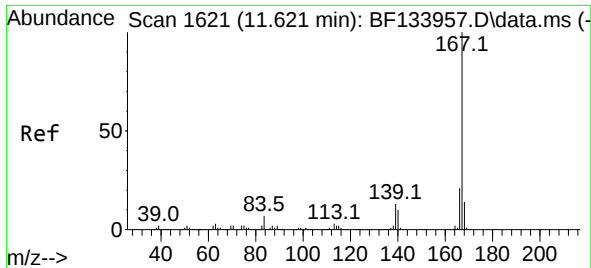
Tgt Ion:178 Resp: 309231
Ion Ratio Lower Upper
178 100
176 19.3 16.0 24.0
179 15.6 12.4 18.6



#72
Anthracene
Concen: 6.587 ng
RT: 11.445 min Scan# 1591
Delta R.T. -0.012 min
Lab File: BF134327.D
Acq: 17 Jul 2023 21:31

Tgt Ion:178 Resp: 70552
Ion Ratio Lower Upper
178 100
176 19.9 15.3 22.9
179 15.8 12.4 18.6

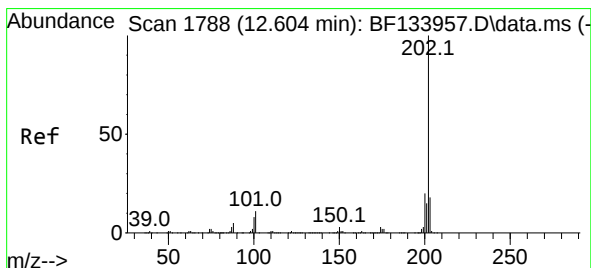
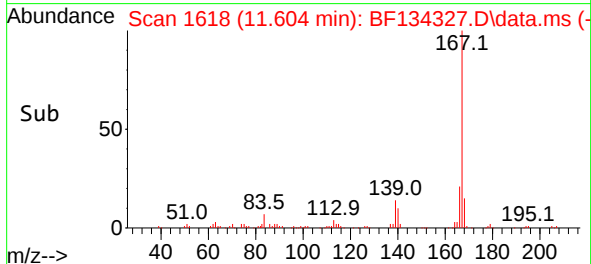
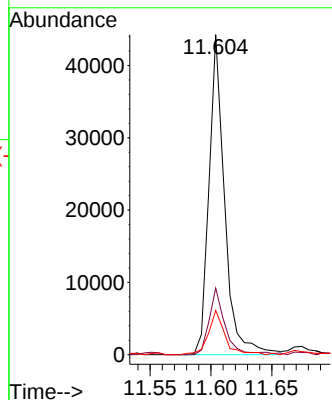
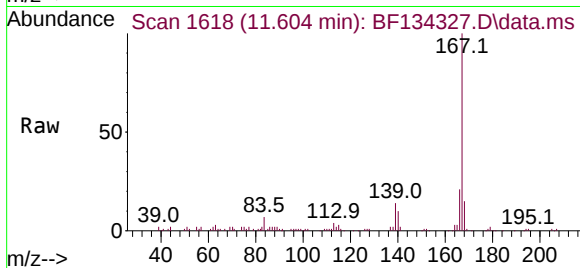




#73
 Carbazole
 Concen: 4.034 ng
 RT: 11.604 min Scan# 1
 Delta R.T. -0.012 min
 Lab File: BF134327.D
 Acq: 17 Jul 2023 21:31

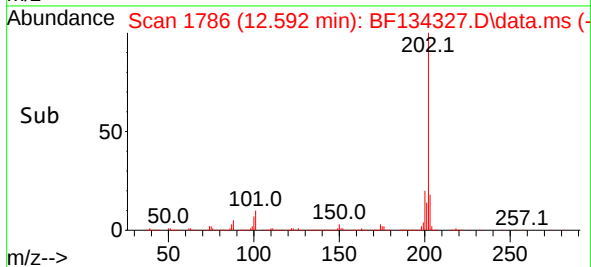
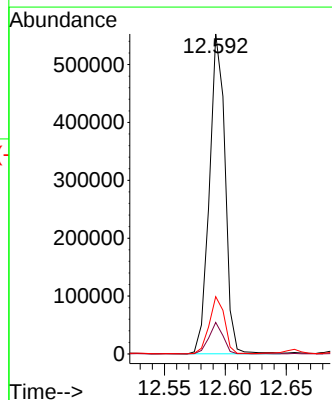
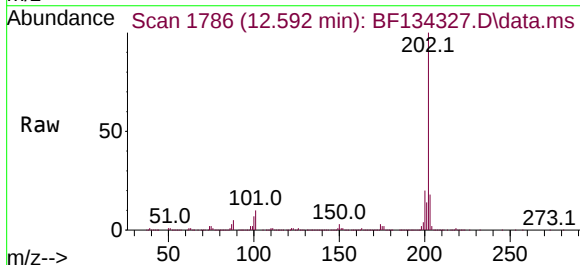
Instrument :
 BNA_F
 ClientSampleId :
 RB-43-(0-2)

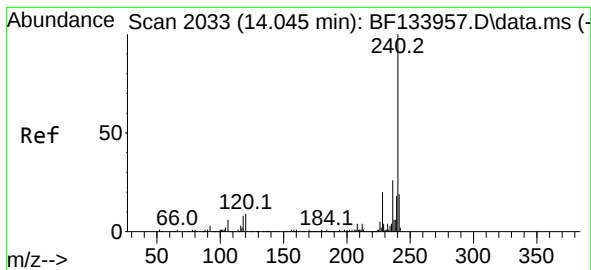
Tgt Ion:167 Resp: 39545
 Ion Ratio Lower Upper
 167 100
 166 20.8 17.0 25.6
 139 13.8 10.4 15.6



#75
 Fluoranthene
 Concen: 44.328 ng
 RT: 12.592 min Scan# 1786
 Delta R.T. -0.006 min
 Lab File: BF134327.D
 Acq: 17 Jul 2023 21:31

Tgt Ion:202 Resp: 493476
 Ion Ratio Lower Upper
 202 100
 101 9.8 0.0 31.0
 203 17.9 0.0 37.6





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.033 min Scan# 2033

Delta R.T. -0.006 min

Lab File: BF134327.D

Acq: 17 Jul 2023 21:31

Instrument :

BNA_F

ClientSampleId :

RB-43-(0-2)

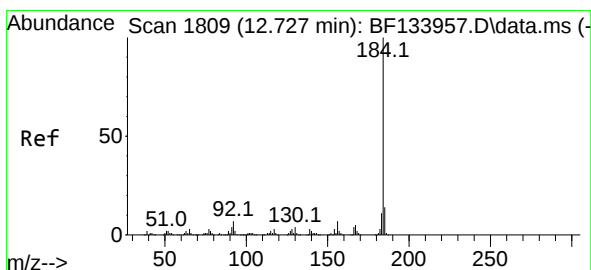
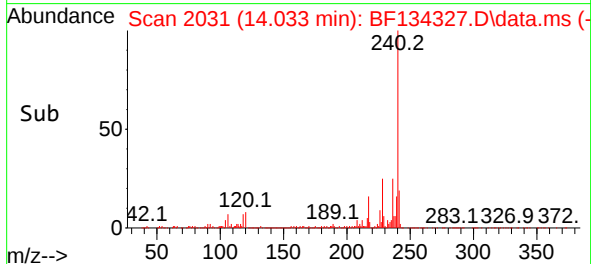
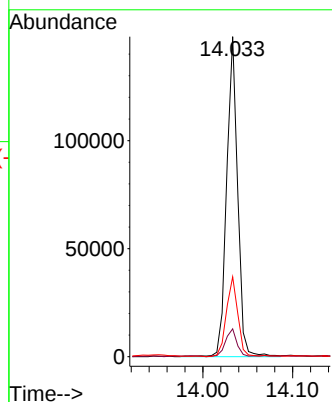
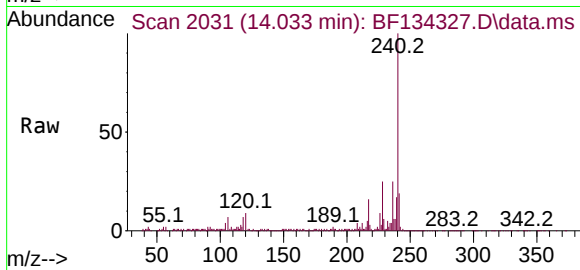
Tgt Ion:240 Resp: 126004

Ion Ratio Lower Upper

240 100

120 8.7 7.4 11.0

236 25.0 21.0 31.6



#77

Benzidine

Concen: 2.084 ng

RT: 12.963 min Scan# 1849

Delta R.T. 0.235 min

Lab File: BF134327.D

Acq: 17 Jul 2023 21:31

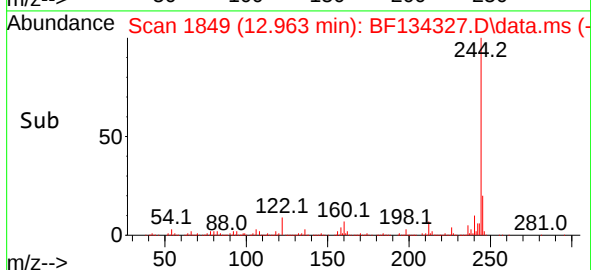
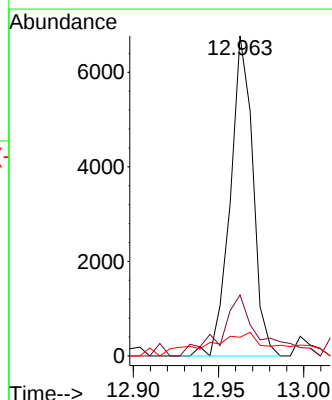
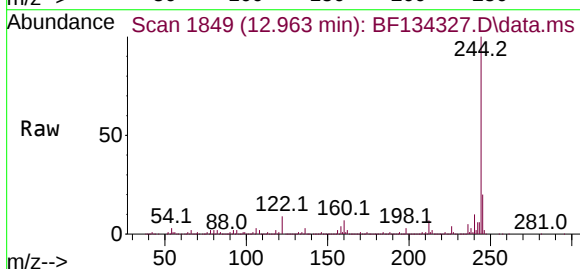
Tgt Ion:184 Resp: 6247

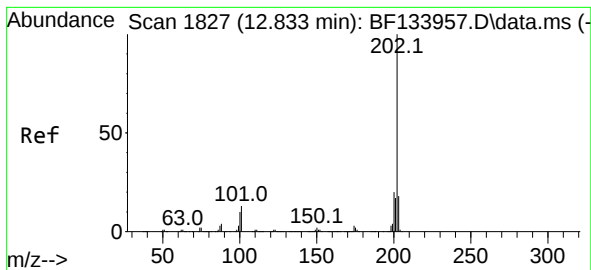
Ion Ratio Lower Upper

184 100

185 19.0 11.6 17.4#

183 5.9 8.8 13.2#





#78

Pyrene

Concen: 37.029 ng

RT: 12.827 min Scan# 1826

Delta R.T. -0.006 min

Lab File: BF134327.D

Acq: 17 Jul 2023 21:31

Instrument :

BNA_F

ClientSampleId :

RB-43-(0-2)

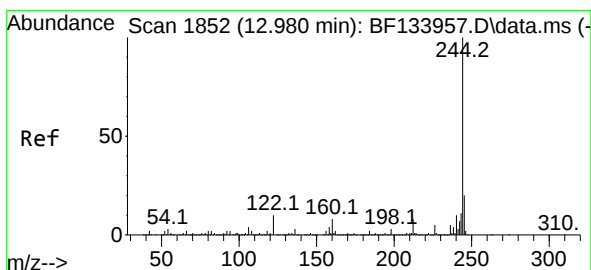
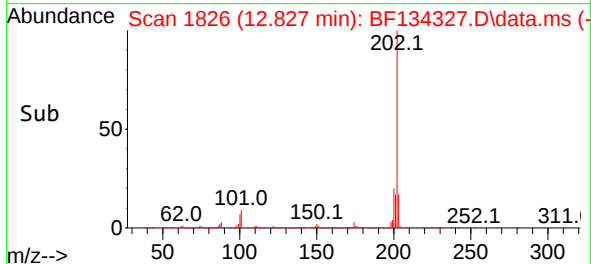
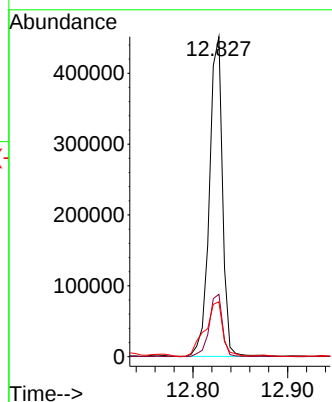
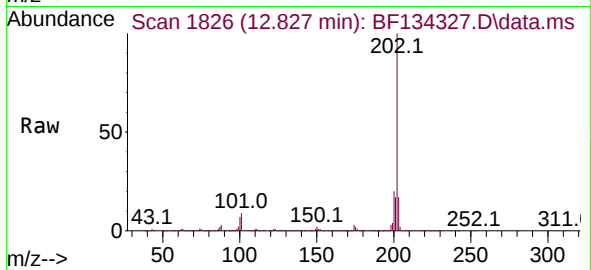
Tgt Ion:202 Resp: 434216

Ion Ratio Lower Upper

202 100

200 19.5 16.1 24.1

203 17.2 14.3 21.5



#79

Terphenyl-d14

Concen: 53.733 ng

RT: 12.963 min Scan# 1849

Delta R.T. -0.012 min

Lab File: BF134327.D

Acq: 17 Jul 2023 21:31

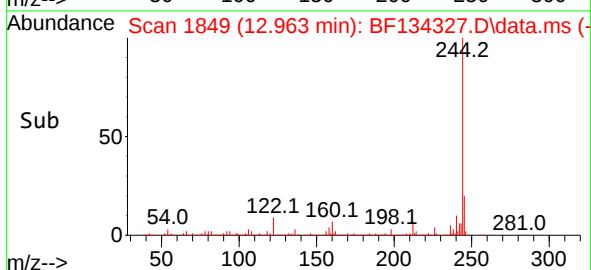
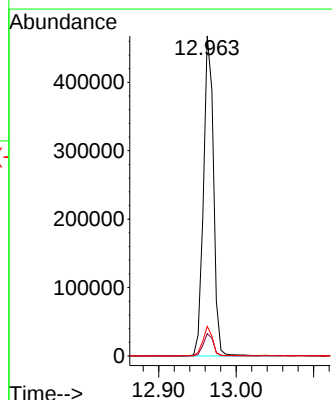
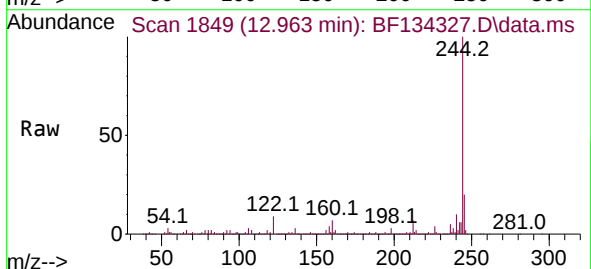
Tgt Ion:244 Resp: 420688

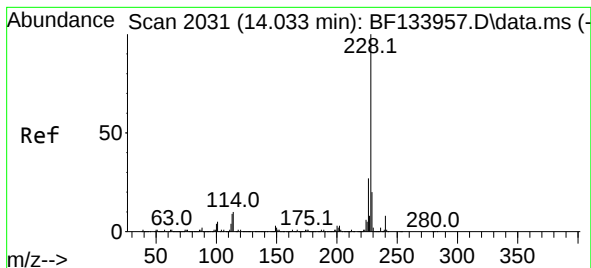
Ion Ratio Lower Upper

244 100

212 7.0 6.0 9.0

122 9.3 8.3 12.5





#81

Benzo(a)anthracene

Concen: 22.042 ng

RT: 14.021 min Scan# 2031

Delta R.T. -0.006 min

Lab File: BF134327.D

Acq: 17 Jul 2023 21:31

Instrument :

BNA_F

ClientSampleId :

RB-43-(0-2)

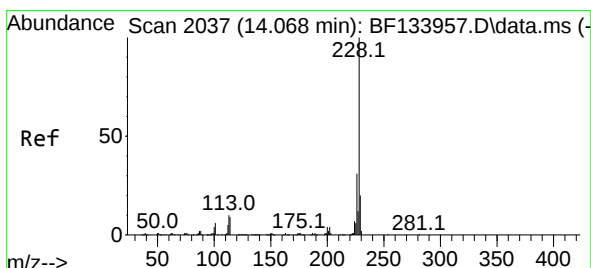
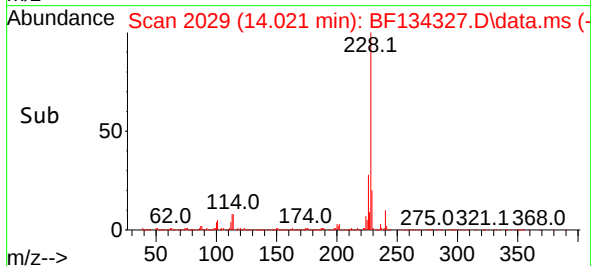
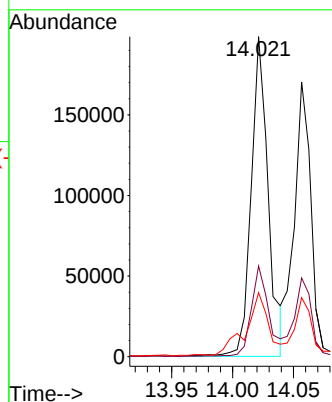
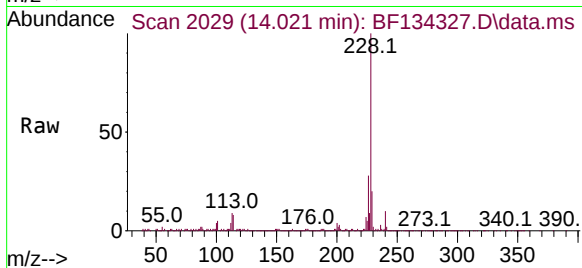
Tgt Ion:228 Resp: 192620

Ion Ratio Lower Upper

228 100

226 28.3 22.0 33.0

229 20.0 16.3 24.5



#83

Chrysene

Concen: 19.249 ng

RT: 14.057 min Scan# 2035

Delta R.T. -0.012 min

Lab File: BF134327.D

Acq: 17 Jul 2023 21:31

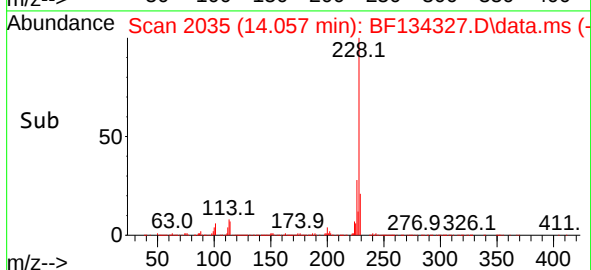
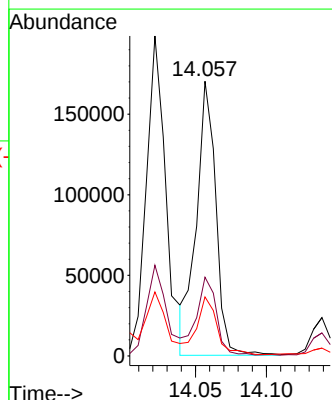
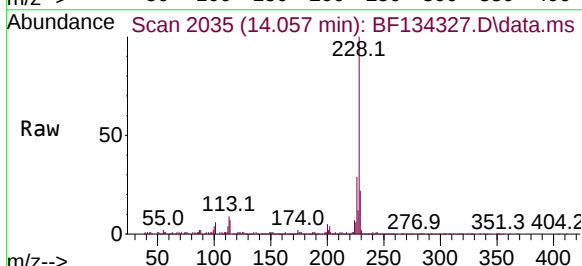
Tgt Ion:228 Resp: 162924

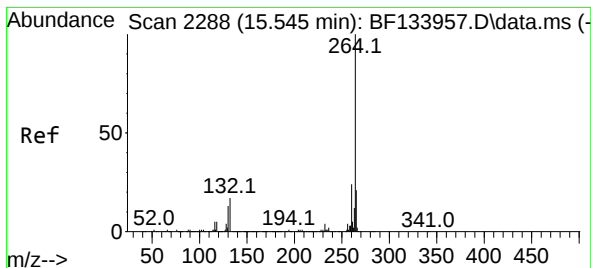
Ion Ratio Lower Upper

228 100

226 28.6 24.4 36.6

229 21.5 16.1 24.1





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.539 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF134327.D

Acq: 17 Jul 2023 21:31

Instrument :

BNA_F

ClientSampleId :

RB-43-(0-2)

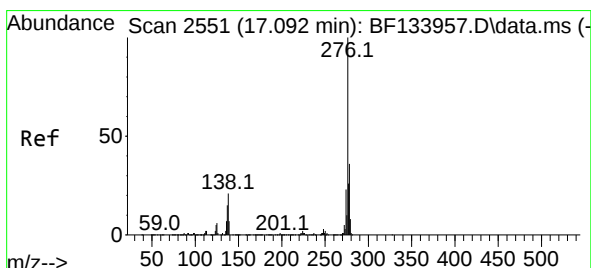
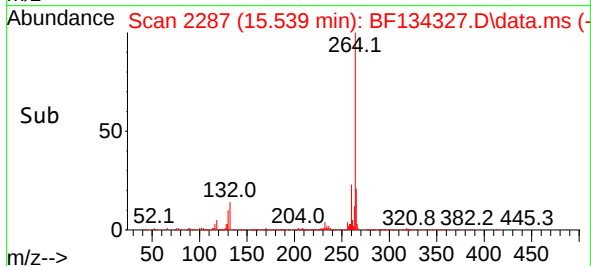
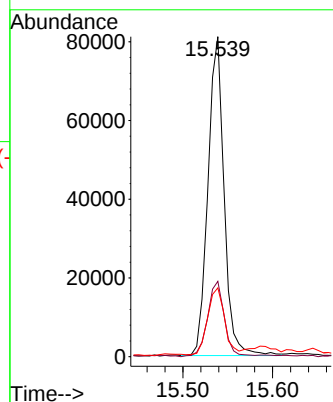
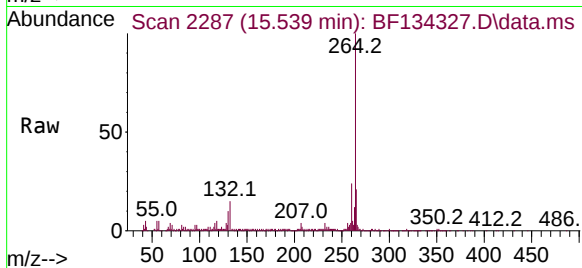
Tgt Ion:264 Resp: 101276

Ion Ratio Lower Upper

264 100

260 23.6 19.5 29.3

265 21.5 16.6 25.0



#87

Indeno(1,2,3-cd)pyrene

Concen: 9.893 ng

RT: 17.080 min Scan# 2549

Delta R.T. -0.018 min

Lab File: BF134327.D

Acq: 17 Jul 2023 21:31

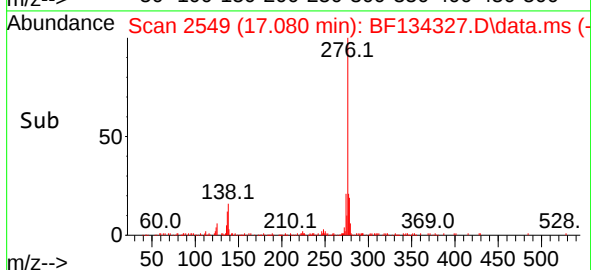
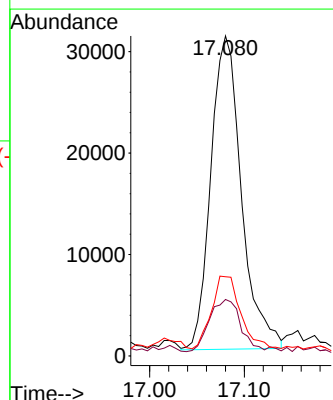
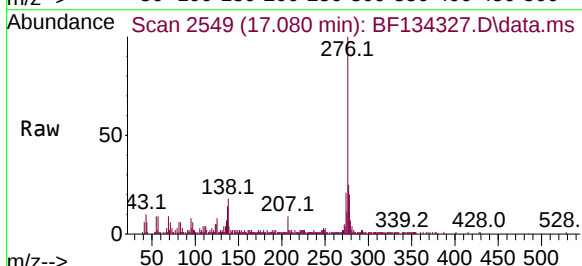
Tgt Ion:276 Resp: 69521

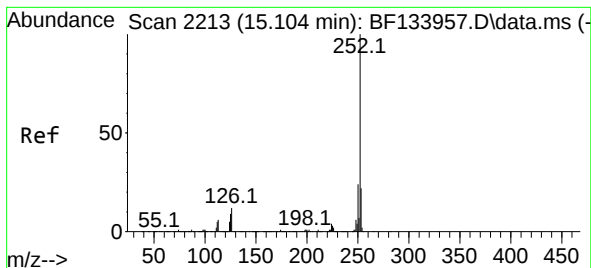
Ion Ratio Lower Upper

276 100

138 16.9 18.7 28.1#

277 22.1 19.9 29.9





#88

Benzo(b)fluoranthene

Concen: 39.345 ng

RT: 15.092 min Scan# 2111

Delta R.T. -0.012 min

Lab File: BF134327.D

Acq: 17 Jul 2023 21:31

Instrument :

BNA_F

ClientSampleId :

RB-43-(0-2)

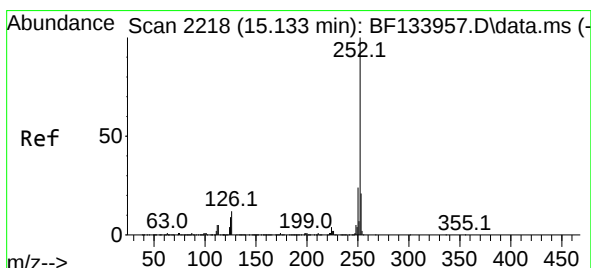
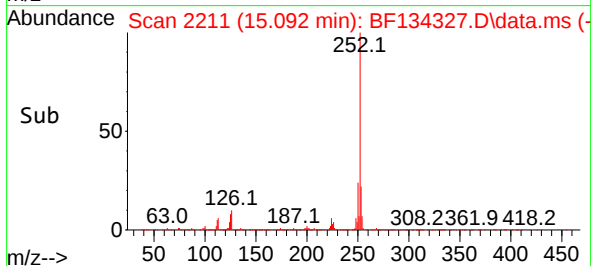
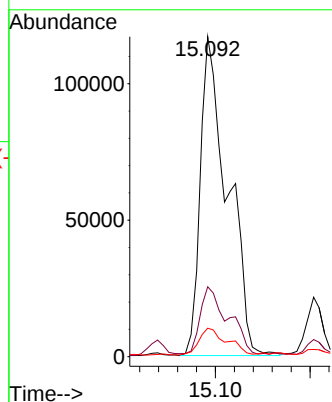
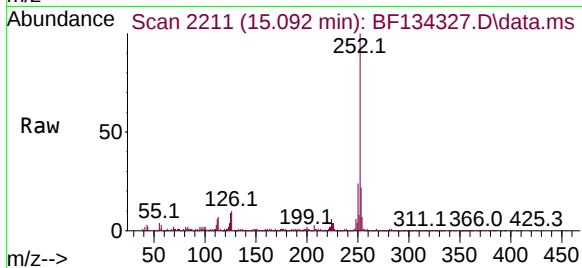
Tgt Ion:252 Resp: 234304

Ion Ratio Lower Upper

252 100

253 21.9 17.4 26.0

125 8.9 7.1 10.7



#89

Benzo(k)fluoranthene

Concen: 38.643 ng

RT: 15.092 min Scan# 2211

Delta R.T. -0.041 min

Lab File: BF134327.D

Acq: 17 Jul 2023 21:31

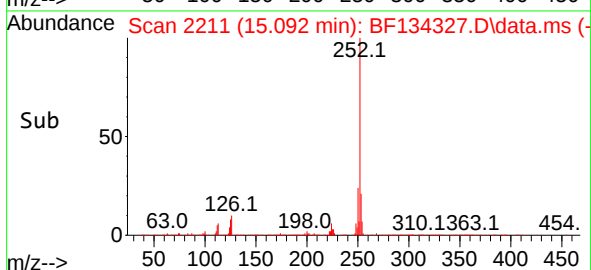
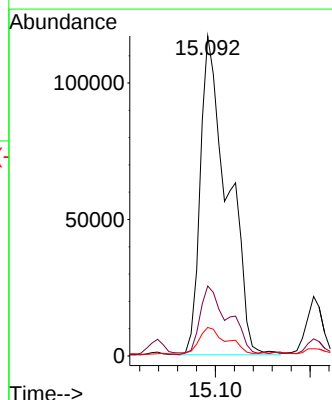
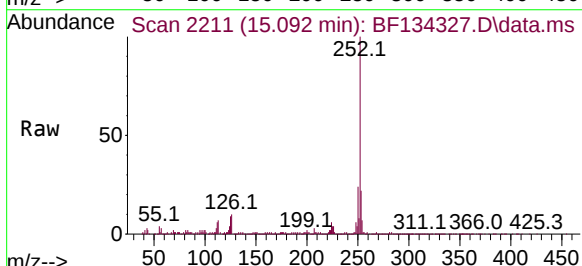
Tgt Ion:252 Resp: 234304

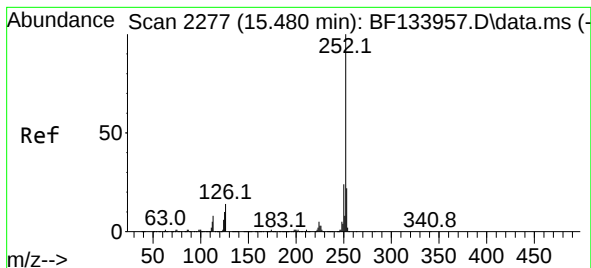
Ion Ratio Lower Upper

252 100

253 21.9 16.9 25.3

125 8.9 7.4 11.2





#90

Benzo(a)pyrene

Concen: 20.968 ng

RT: 15.474 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF134327.D

Acq: 17 Jul 2023 21:31

Instrument :

BNA_F

ClientSampleId :

RB-43-(0-2)

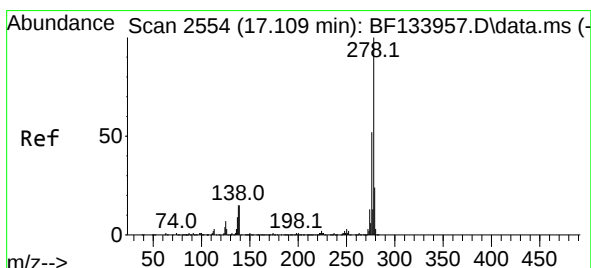
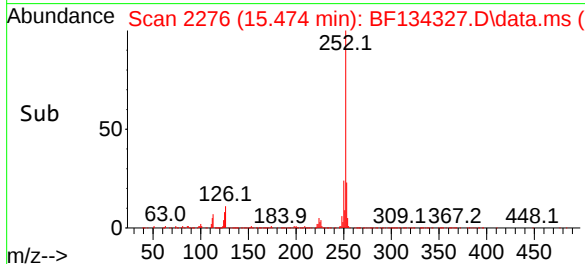
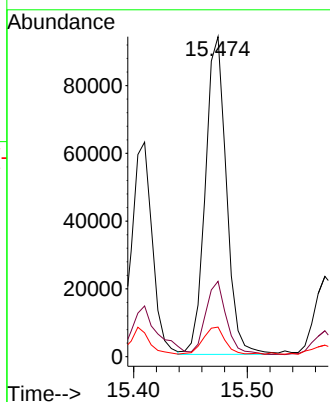
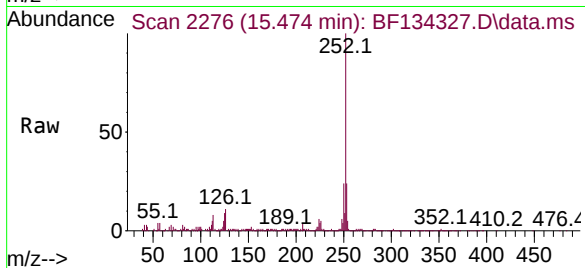
Tgt Ion:252 Resp: 120744

Ion Ratio Lower Upper

252 100

253 23.6 17.4 26.0

125 9.3 8.4 12.6



#91

Dibenzo(a,h)anthracene

Concen: 2.384 ng

RT: 17.268 min Scan# 2581

Delta R.T. 0.159 min

Lab File: BF134327.D

Acq: 17 Jul 2023 21:31

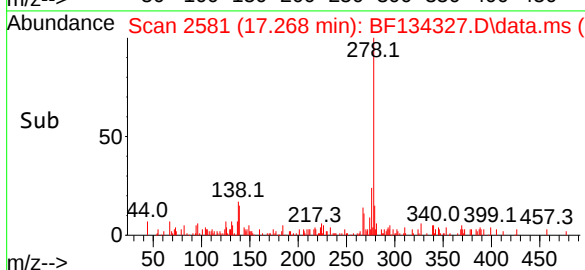
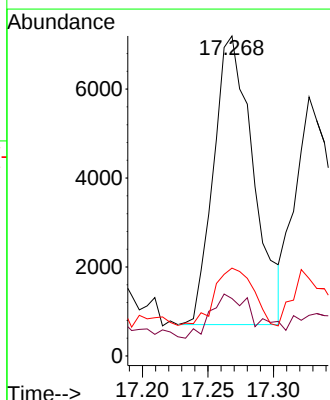
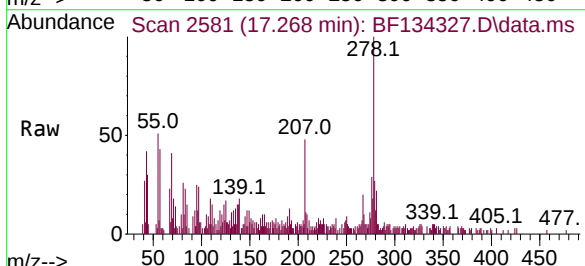
Tgt Ion:278 Resp: 13682

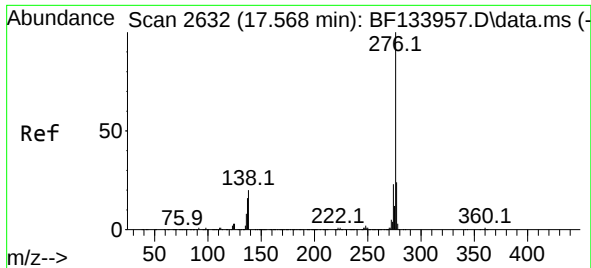
Ion Ratio Lower Upper

278 100

139 17.9 12.2 18.4

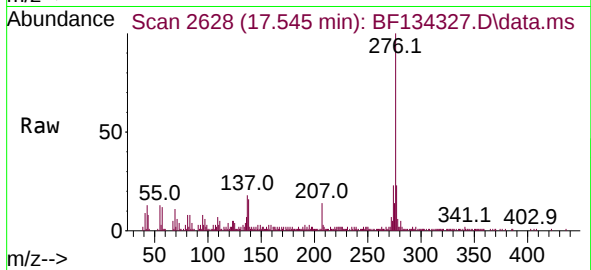
279 27.5 19.4 29.2





#92
 Benzo(g,h,i)perylene
 Concen: 10.696 ng
 RT: 17.545 min Scan# 20
 Delta R.T. -0.023 min
 Lab File: BF134327.D
 Acq: 17 Jul 2023 21:31

Instrument :
 BNA_F
 ClientSampleId :
 RB-43-(0-2)



Tgt Ion:276 Resp: 63312
 Ion Ratio Lower Upper
 276 100
 277 23.2 19.0 28.6
 138 15.7 16.2 24.2#

