

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031323\
 Data File : BF132773.D
 Acq On : 13 Mar 2023 22:04
 Operator : CG\JU
 Sample : 01846-04DL 2X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-4DL

Quant Time: Mar 14 01:35:48 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022223.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 13 13:44:13 2023
 Response via : Initial Calibration

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

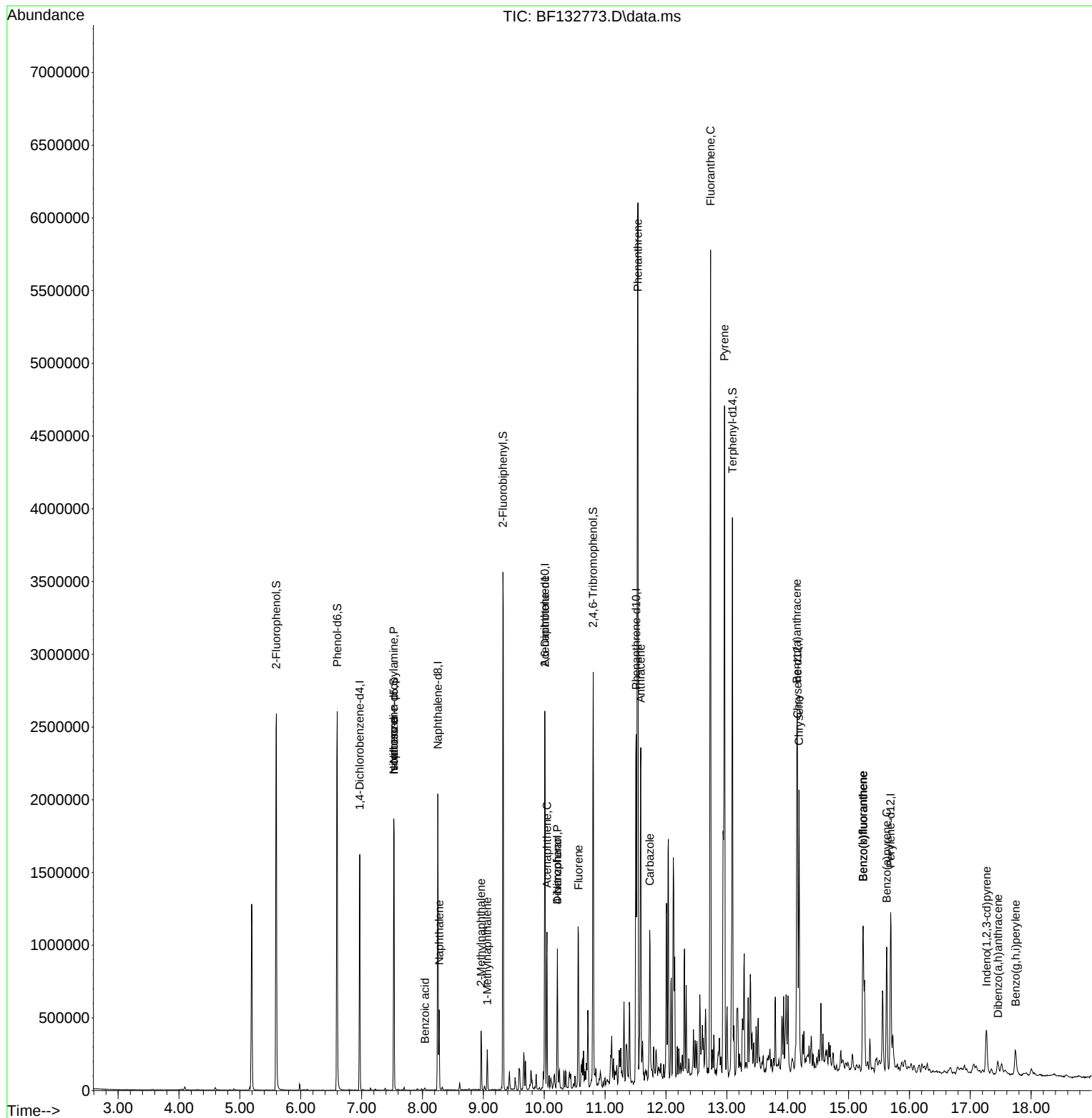
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.969	152	224751	20.000	ng	0.00
21) Naphthalene-d8	8.251	136	814559	20.000	ng	0.00
39) Acenaphthene-d10	10.010	164	511188	20.000	ng	-0.01
64) Phenanthrene-d10	11.510	188	1031053	20.000	ng	0.00
76) Chrysene-d12	14.163	240	486889	20.000	ng	0.00
86) Perylene-d12	15.692	264	520454	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.599	112	807088	58.281	ng	0.00
7) Phenol-d6	6.599	99	923294	51.087	ng	-0.01
23) Nitrobenzene-d5	7.528	82	613991	35.762	ng	-0.02
42) 2,4,6-Tribromophenol	10.804	330	308059	55.802	ng	-0.01
45) 2-Fluorobiphenyl	9.322	172	1116137	33.246	ng	-0.01
79) Terphenyl-d14	13.092	244	1324994	46.011	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.528	70	79752	7.170	ng	# 77
25) Isophorone	7.528	82	613984	18.653	ng	# 67
31) Naphthalene	8.275	128	216630	5.195	ng	98
32) Benzoic acid	8.040	122	3940	4.196	ng	# 21
37) 2-Methylnaphthalene	8.963	142	101111	3.558	ng	100
38) 1-Methylnaphthalene	9.063	142	64857	2.442	ng	99
51) 2,6-Dinitrotoluene	10.010	165	72769	8.585	ng	# 22
52) Acenaphthene	10.045	154	207920	6.707	ng	98
55) Dibenzofuran	10.216	168	337732	7.473	ng	97
56) 4-Nitrophenol	10.216	139	117508	16.617	ng	# 5
58) Fluorene	10.563	166	304130	8.798	ng	97
71) Phenanthrene	11.539	178	2623766	49.122	ng	99
72) Anthracene	11.586	178	907124	16.492	ng	99
73) Carbazole	11.733	167	399936	8.065	ng	98
75) Fluoranthene	12.733	202	2527202	43.280	ng	98
78) Pyrene	12.963	202	2085648	47.115	ng	99
81) Benzo(a)anthracene	14.151	228	867578	23.815	ng	98
83) Chrysene	14.186	228	668234	19.615	ng	96
87) Indeno(1,2,3-cd)pyrene	17.268	276	197592	5.794	ng	98
88) Benzo(b)fluoranthene	15.239	252	839197	24.061	ng	98
89) Benzo(k)fluoranthene	15.239	252	839197	24.585	ng	99
90) Benzo(a)pyrene	15.627	252	448986	13.754	ng	97
91) Dibenzo(a,h)anthracene	17.457	278	61724	2.221	ng	98
92) Benzo(g,h,i)perylene	17.745	276	145322	6.087	ng	99

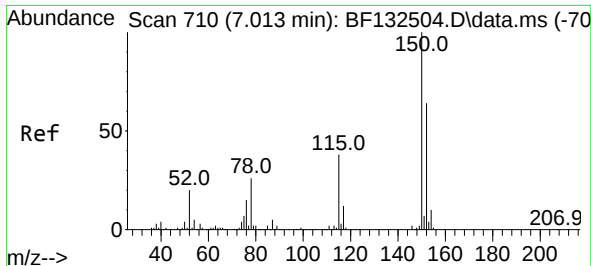
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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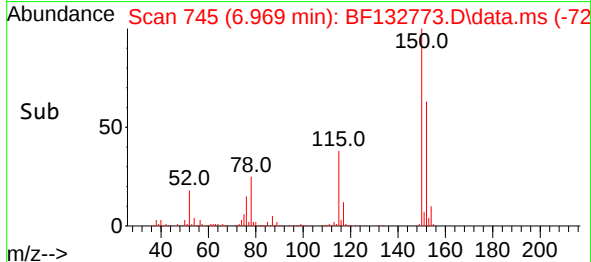
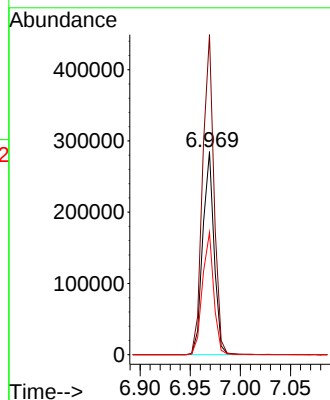
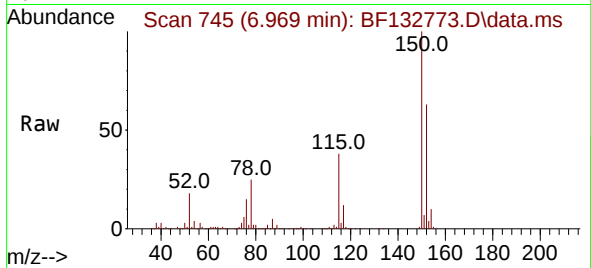




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.969 min Scan# 710
 Delta R.T. -0.006 min
 Lab File: BF132773.D
 Acq: 13 Mar 2023 22:04

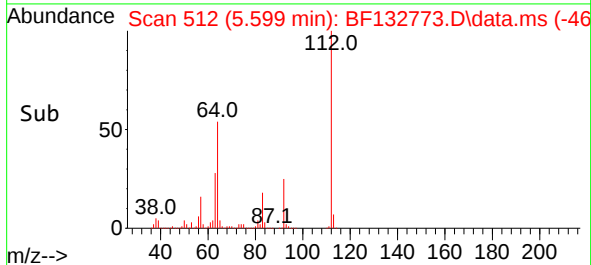
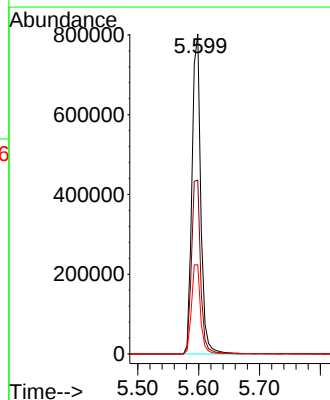
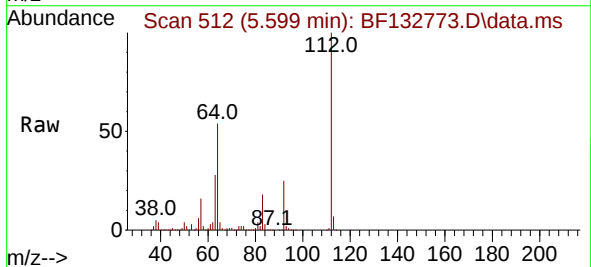
Instrument :
 BNA_F
 ClientSampleId :
 TP-4DL

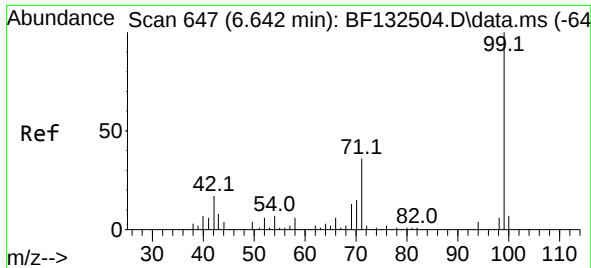
Tgt Ion:152 Resp: 224751
 Ion Ratio Lower Upper
 152 100
 150 157.6 125.4 188.2
 115 60.2 47.8 71.6



#5
 2-Fluorophenol
 Concen: 58.281 ng
 RT: 5.599 min Scan# 512
 Delta R.T. 0.000 min
 Lab File: BF132773.D
 Acq: 13 Mar 2023 22:04

Tgt Ion:112 Resp: 807088
 Ion Ratio Lower Upper
 112 100
 64 54.3 51.6 77.4
 63 27.8 27.4 41.2

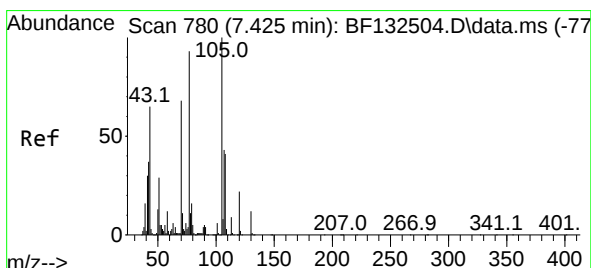
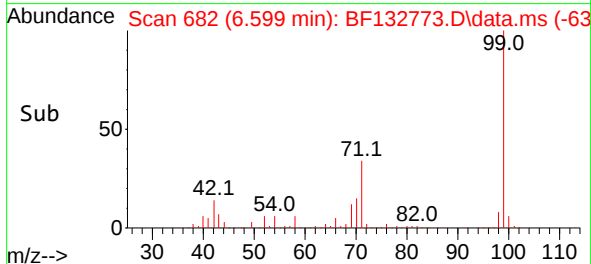
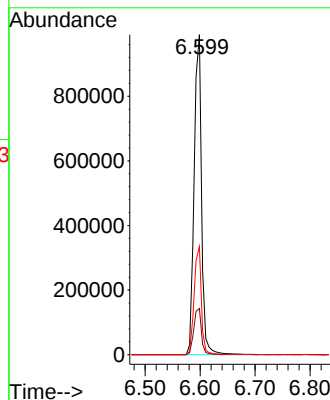
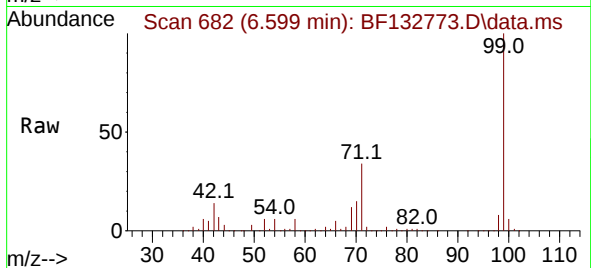




#7
Phenol-d6
Concen: 51.087 ng
RT: 6.599 min Scan# 61
Delta R.T. -0.012 min
Lab File: BF132773.D
Acq: 13 Mar 2023 22:04

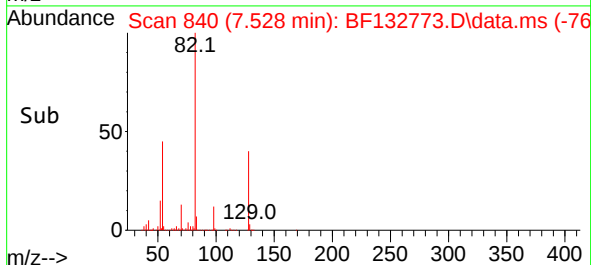
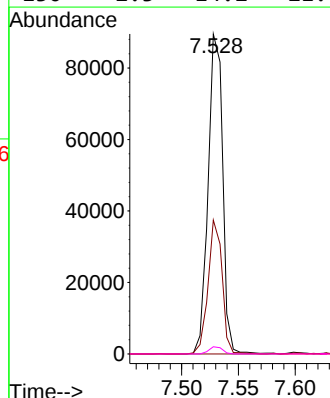
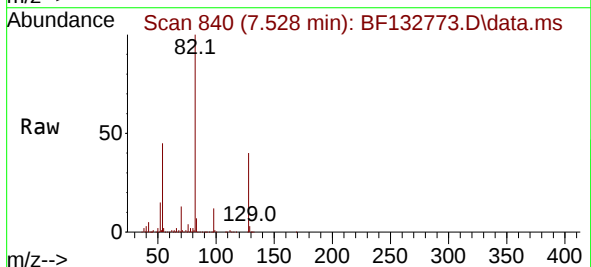
Instrument :
BNA_F
ClientSampleId :
TP-4DL

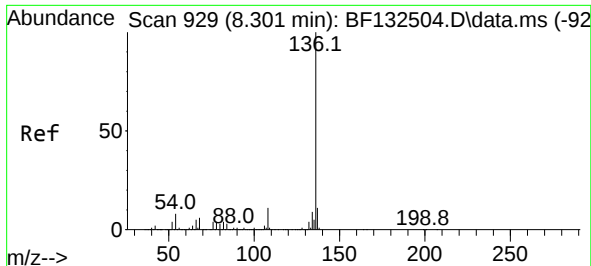
Tgt Ion: 99 Resp: 923294
Ion Ratio Lower Upper
99 100
42 14.4 13.9 20.9
71 33.8 28.5 42.7



#19
n-Nitroso-di-n-propylamine
Concen: 7.170 ng
RT: 7.528 min Scan# 840
Delta R.T. 0.141 min
Lab File: BF132773.D
Acq: 13 Mar 2023 22:04

Tgt Ion: 70 Resp: 79752
Ion Ratio Lower Upper
70 100
42 41.8 44.1 66.1#
101 0.0 7.4 11.2#
130 2.3 14.2 21.4#



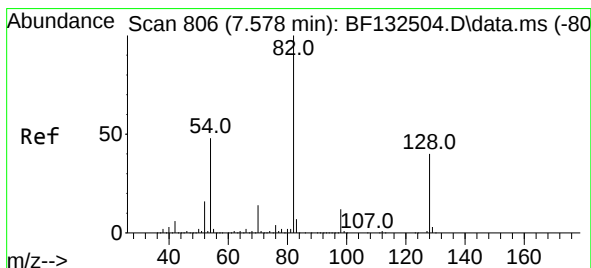
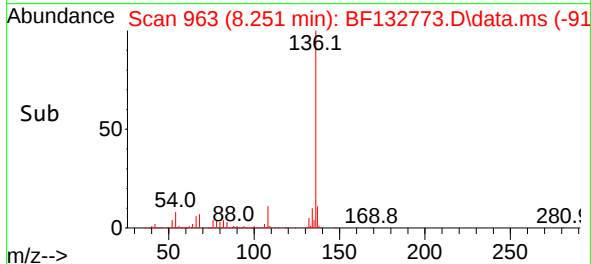
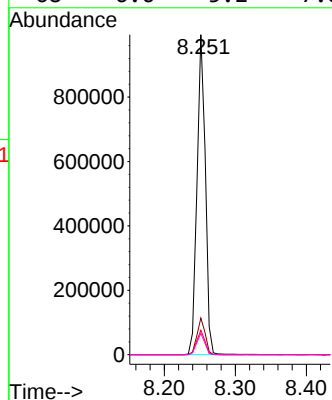
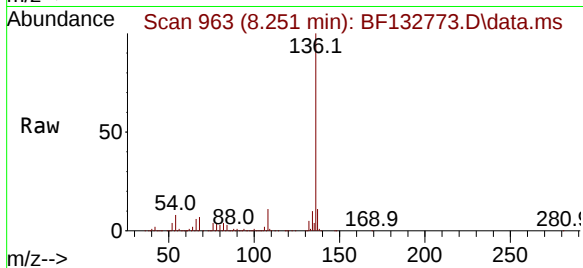


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.251 min Scan# 91
Delta R.T. -0.006 min
Lab File: BF132773.D
Acq: 13 Mar 2023 22:04

Instrument :
BNA_F
ClientSampleId :
TP-4DL

Tgt Ion:136 Resp: 814559

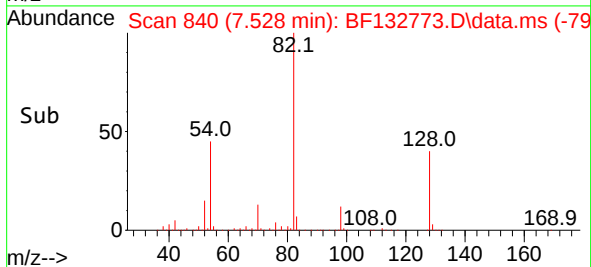
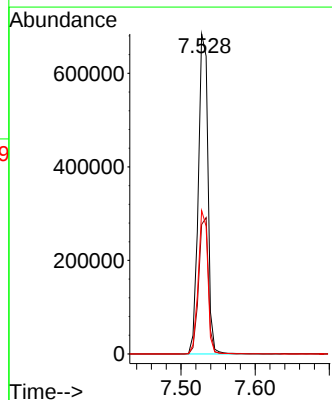
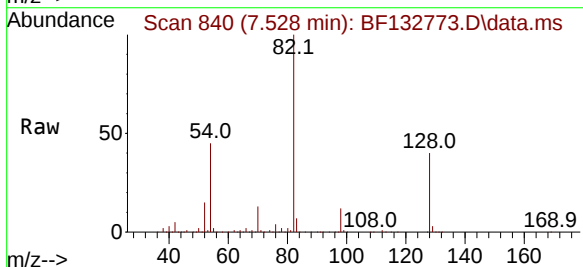
Ion	Ratio	Lower	Upper
136	100		
137	11.5	8.9	13.3
54	7.6	6.2	9.4
68	6.6	5.2	7.8

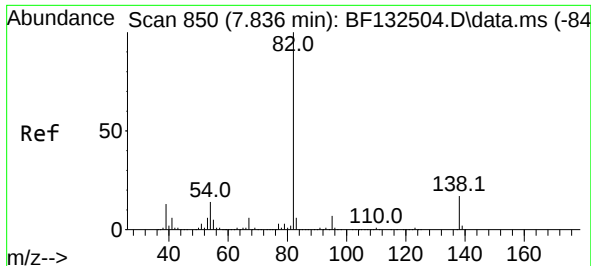


#23
Nitrobenzene-d5
Concen: 35.762 ng
RT: 7.528 min Scan# 840
Delta R.T. -0.017 min
Lab File: BF132773.D
Acq: 13 Mar 2023 22:04

Tgt Ion: 82 Resp: 613991

Ion	Ratio	Lower	Upper
82	100		
128	40.4	32.2	48.2
54	44.8	38.4	57.6

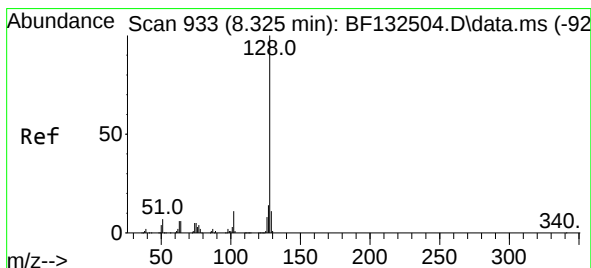
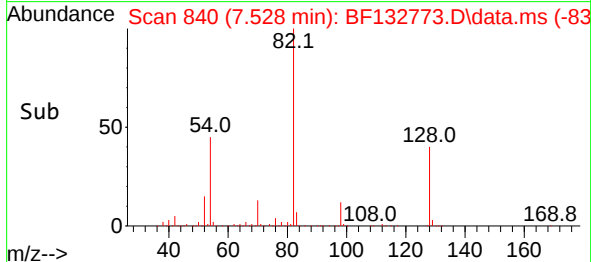
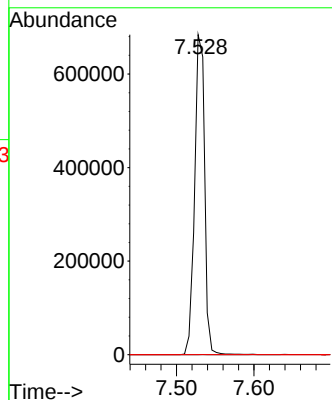
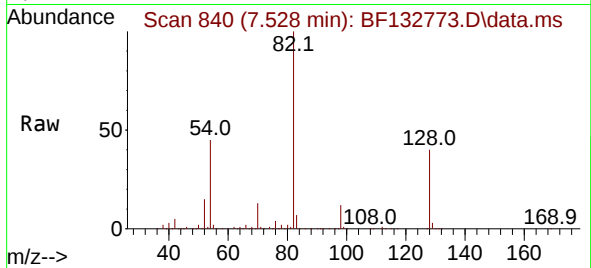




#25
Isophorone
Concen: 18.653 ng
RT: 7.528 min Scan# 84
Delta R.T. -0.270 min
Lab File: BF132773.D
Acq: 13 Mar 2023 22:04

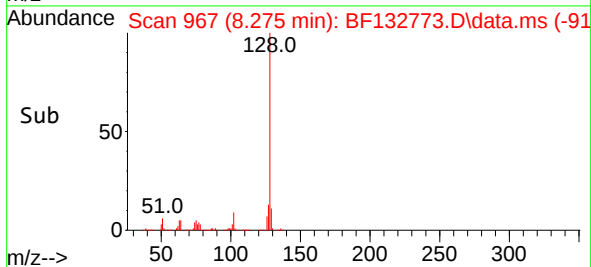
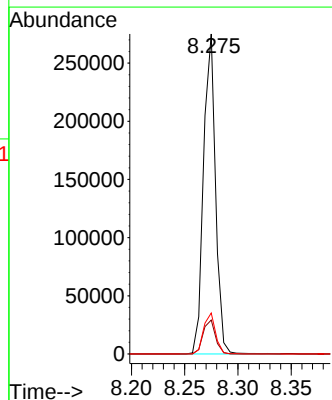
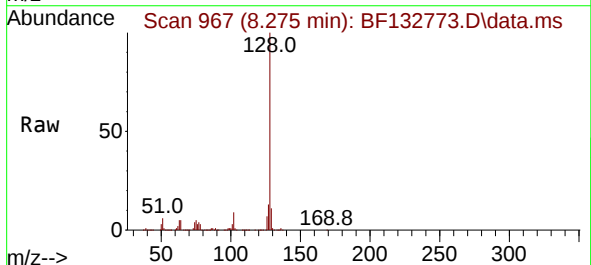
Instrument :
BNA_F
ClientSampleId :
TP-4DL

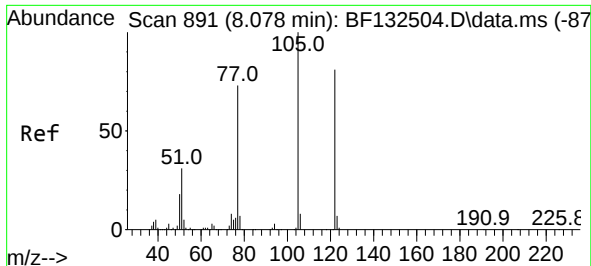
Tgt Ion: 82 Resp: 613984
Ion Ratio Lower Upper
82 100
95 0.0 5.7 8.5#
138 0.0 13.3 19.9#



#31
Naphthalene
Concen: 5.195 ng
RT: 8.275 min Scan# 967
Delta R.T. -0.006 min
Lab File: BF132773.D
Acq: 13 Mar 2023 22:04

Tgt Ion: 128 Resp: 216630
Ion Ratio Lower Upper
128 100
129 10.6 9.1 13.7
127 12.8 11.0 16.6

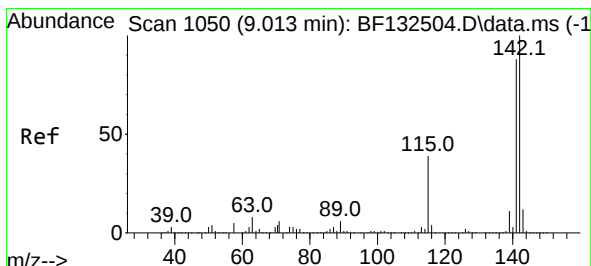
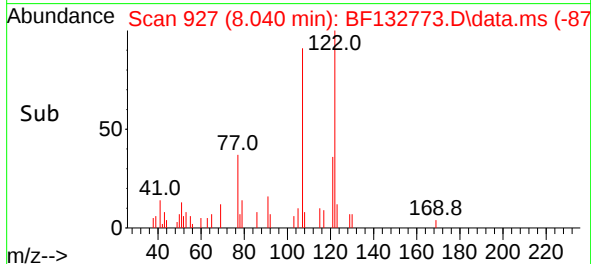
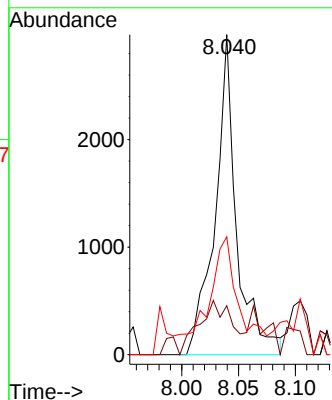
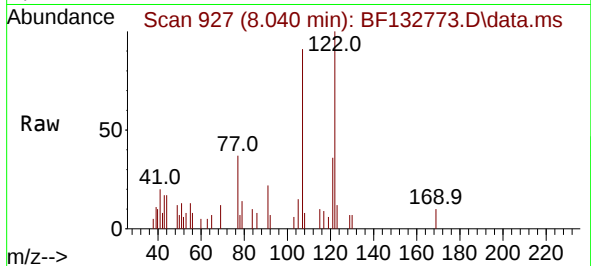




#32
Benzoic acid
Concen: 4.196 ng
RT: 8.040 min Scan# 91
Delta R.T. 0.000 min
Lab File: BF132773.D
Acq: 13 Mar 2023 22:04

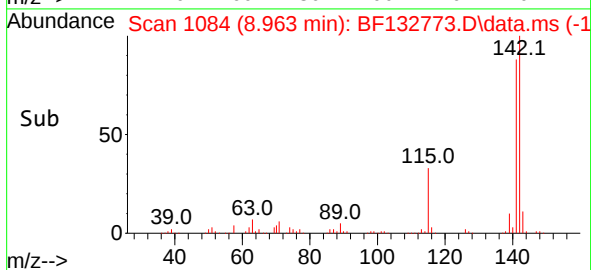
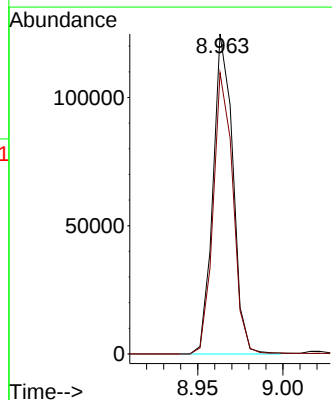
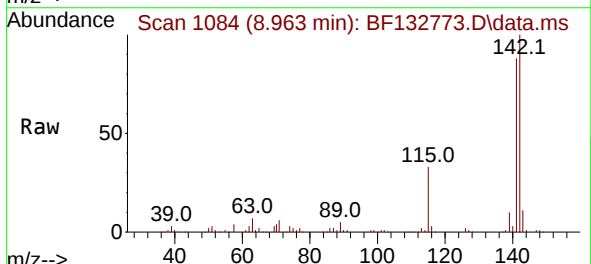
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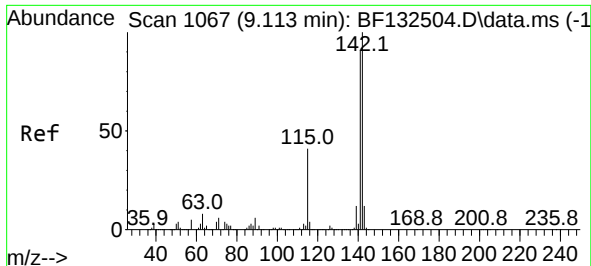
Tgt Ion:122 Resp: 3940
Ion Ratio Lower Upper
122 100
105 15.3 102.6 142.6#
77 36.8 70.2 110.2#



#37
2-Methylnaphthalene
Concen: 3.558 ng
RT: 8.963 min Scan# 1084
Delta R.T. -0.012 min
Lab File: BF132773.D
Acq: 13 Mar 2023 22:04

Tgt Ion:142 Resp: 101111
Ion Ratio Lower Upper
142 100
141 87.9 70.2 105.2

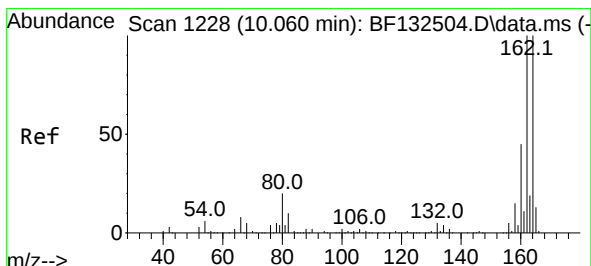
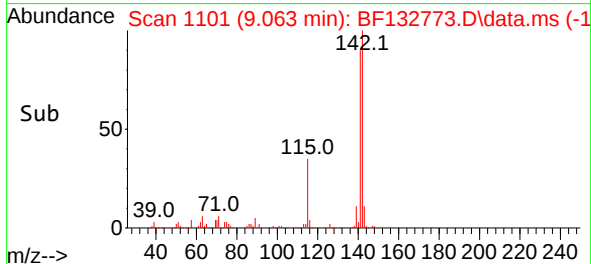
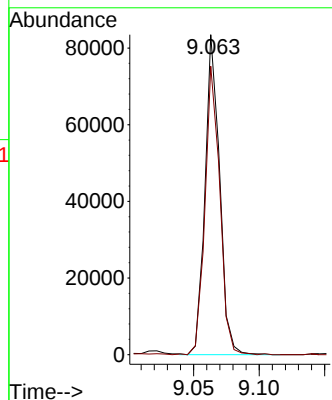
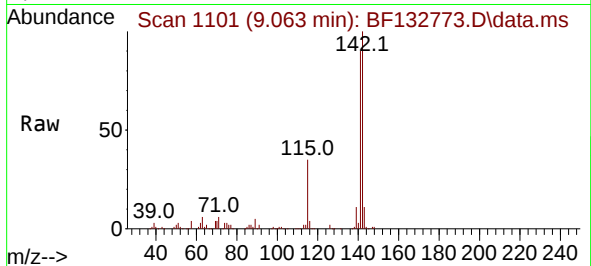




#38
1-Methylnaphthalene
Concen: 2.442 ng
RT: 9.063 min Scan# 1101
Delta R.T. -0.012 min
Lab File: BF132773.D
Acq: 13 Mar 2023 22:04

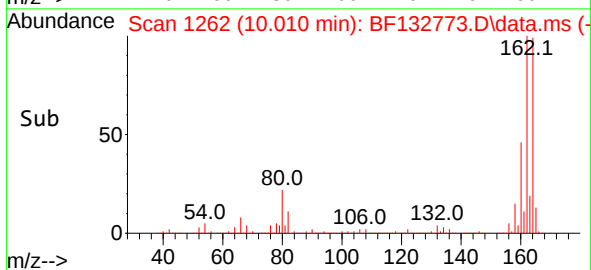
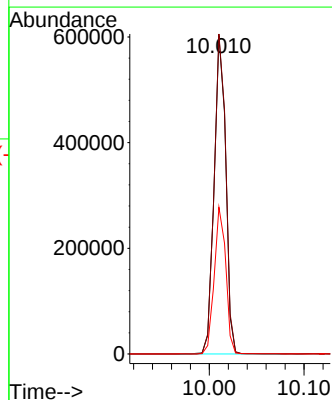
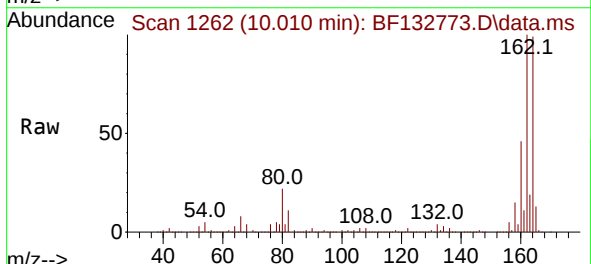
Instrument :
BNA_F
ClientSampleId :
TP-4DL

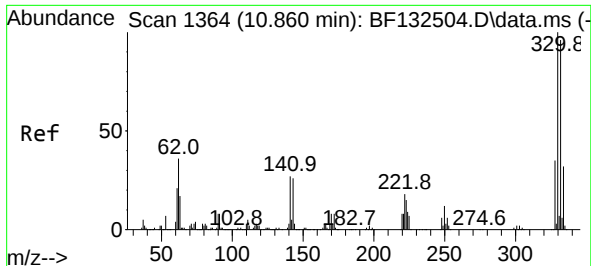
Tgt Ion:142 Resp: 64857
Ion Ratio Lower Upper
142 100
141 90.2 73.0 109.6



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.010 min Scan# 1262
Delta R.T. -0.012 min
Lab File: BF132773.D
Acq: 13 Mar 2023 22:04

Tgt Ion:164 Resp: 511188
Ion Ratio Lower Upper
164 100
162 100.6 79.8 119.8
160 46.1 35.8 53.6





#42

2,4,6-Tribromophenol

Concen: 55.802 ng

RT: 10.804 min Scan# 1145

Delta R.T. -0.012 min

Lab File: BF132773.D

Acq: 13 Mar 2023 22:04

Instrument :

BNA_F

ClientSampleId :

TP-4DL

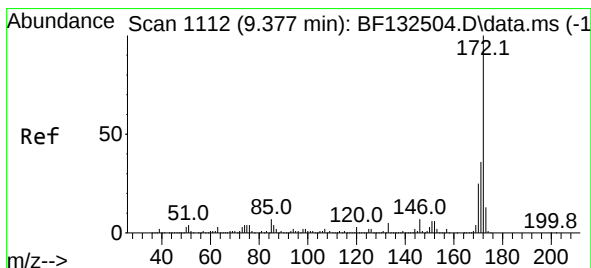
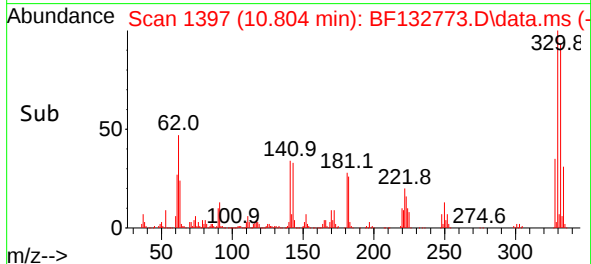
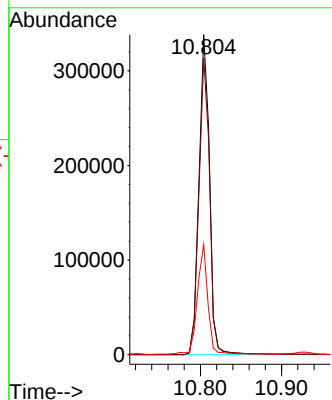
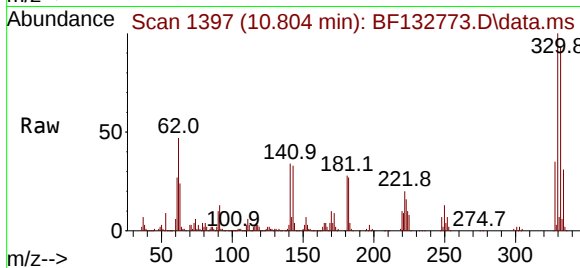
Tgt Ion:330 Resp: 308059

Ion Ratio Lower Upper

330 100

332 94.3 76.2 114.4

141 34.0 28.4 42.6



#45

2-Fluorobiphenyl

Concen: 33.246 ng

RT: 9.322 min Scan# 1145

Delta R.T. -0.012 min

Lab File: BF132773.D

Acq: 13 Mar 2023 22:04

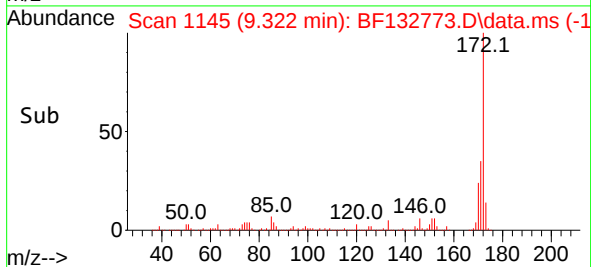
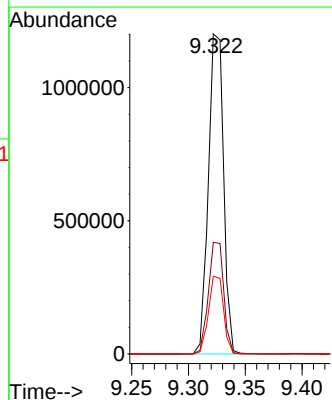
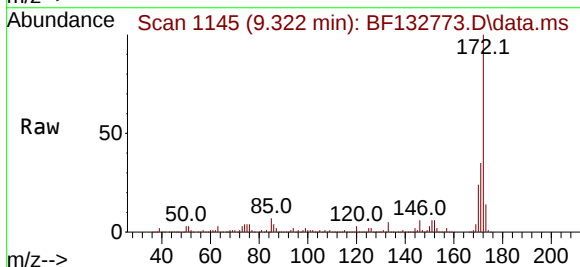
Tgt Ion:172 Resp: 1116137

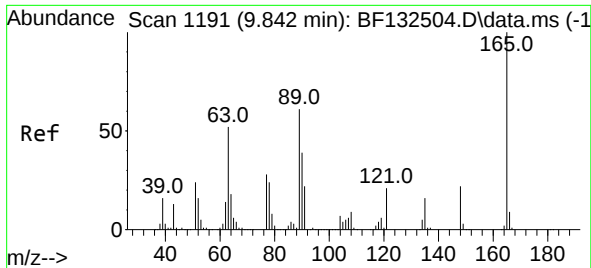
Ion Ratio Lower Upper

172 100

171 34.8 28.8 43.2

170 24.3 19.7 29.5

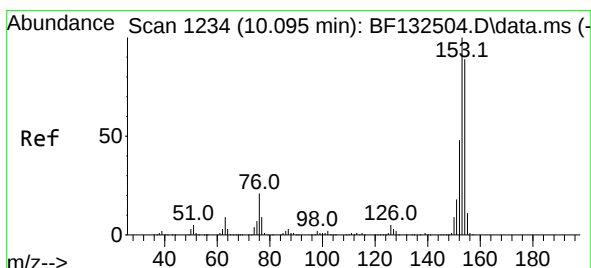
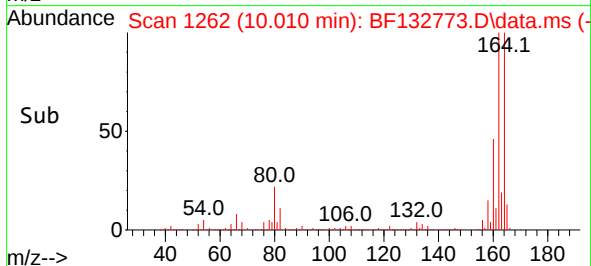
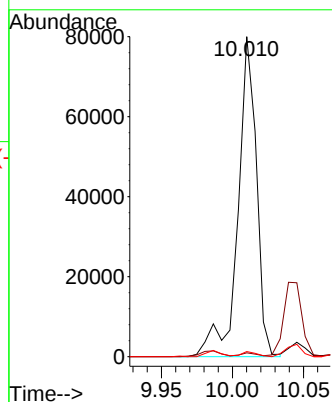
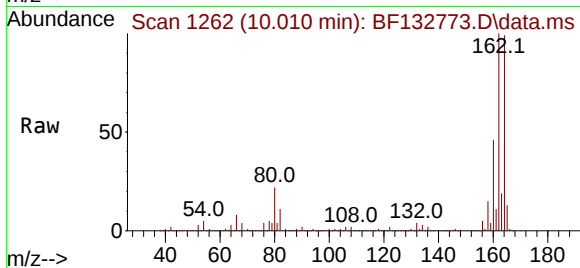




#51
2,6-Dinitrotoluene
Concen: 8.585 ng
RT: 10.010 min Scan# 1191
Delta R.T. 0.206 min
Lab File: BF132773.D
Acq: 13 Mar 2023 22:04

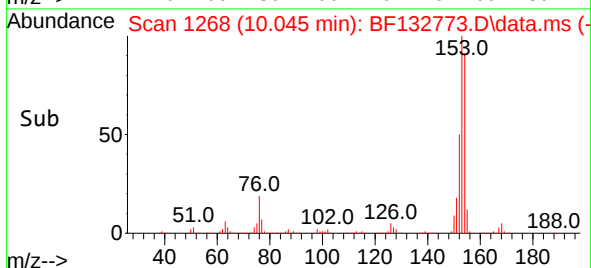
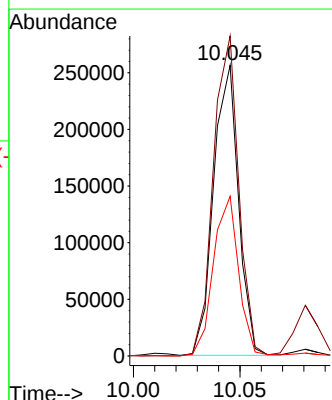
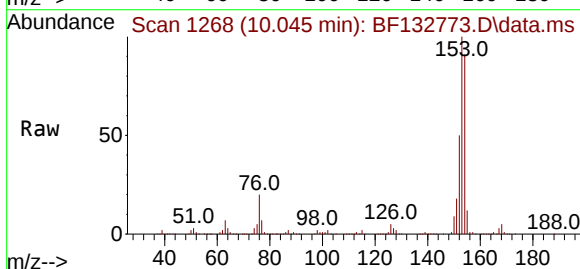
Instrument :
BNA_F
ClientSampleId :
TP-4DL

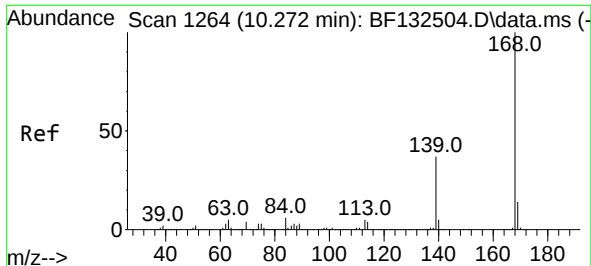
Tgt Ion:165 Resp: 72769
Ion Ratio Lower Upper
165 100
63 1.2 47.3 70.9#
89 1.6 48.9 73.3#



#52
Acenaphthene
Concen: 6.707 ng
RT: 10.045 min Scan# 1268
Delta R.T. -0.012 min
Lab File: BF132773.D
Acq: 13 Mar 2023 22:04

Tgt Ion:154 Resp: 207920
Ion Ratio Lower Upper
154 100
153 110.0 89.8 134.8
152 54.9 43.3 64.9

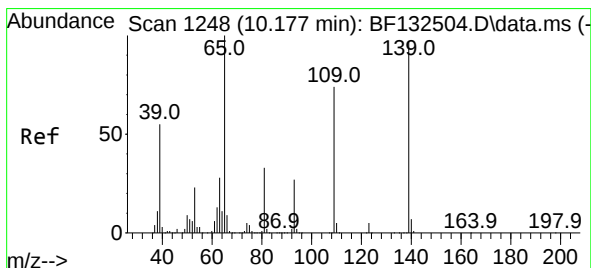
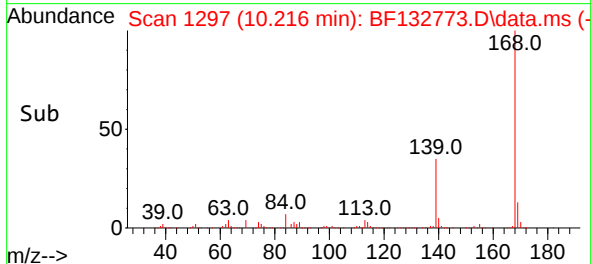
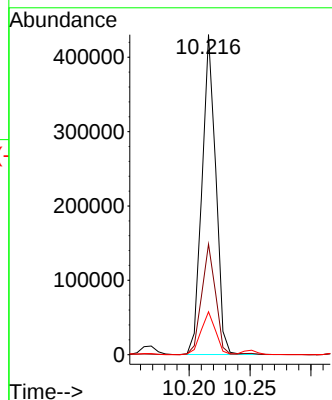
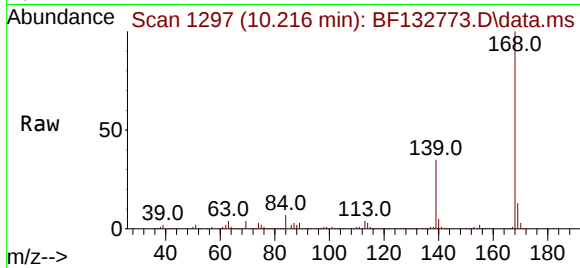




#55
Dibenzofuran
Concen: 7.473 ng
RT: 10.216 min Scan# 1297
Delta R.T. -0.012 min
Lab File: BF132773.D
Acq: 13 Mar 2023 22:04

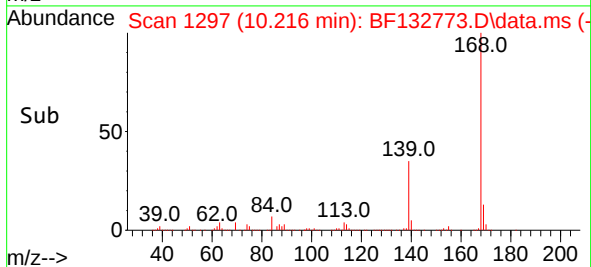
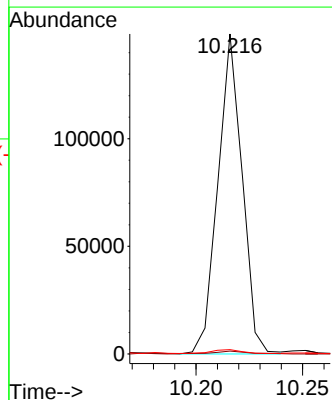
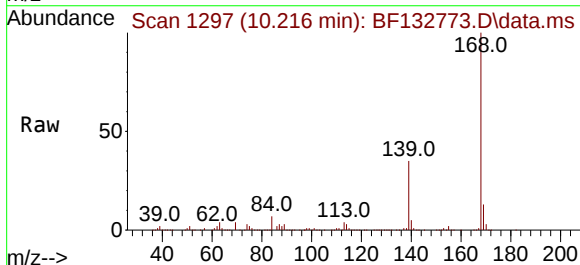
Instrument :
BNA_F
ClientSampleId :
TP-4DL

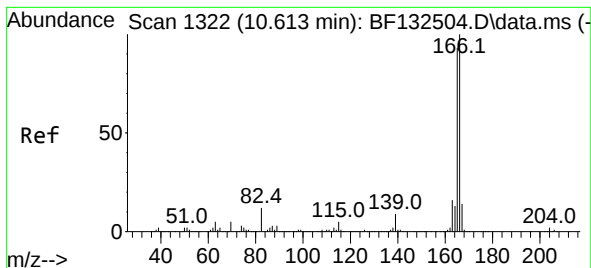
Tgt Ion:168 Resp: 337732
Ion Ratio Lower Upper
168 100
139 34.5 29.8 44.6
169 13.4 10.9 16.3



#56
4-Nitrophenol
Concen: 16.617 ng
RT: 10.216 min Scan# 1297
Delta R.T. 0.077 min
Lab File: BF132773.D
Acq: 13 Mar 2023 22:04

Tgt Ion:139 Resp: 117508
Ion Ratio Lower Upper
139 100
109 0.9 56.7 96.7#
65 1.4 83.5 123.5#





#58

Fluorene

Concen: 8.798 ng

RT: 10.563 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF132773.D

Acq: 13 Mar 2023 22:04

Instrument :

BNA_F

ClientSampleId :

TP-4DL

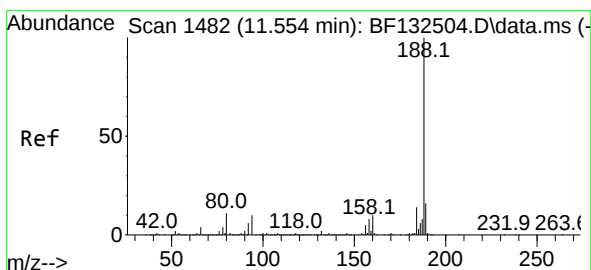
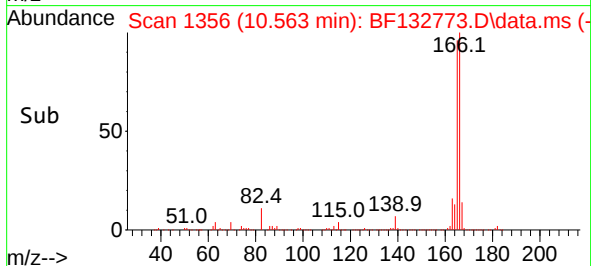
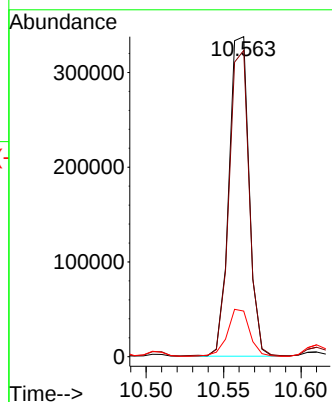
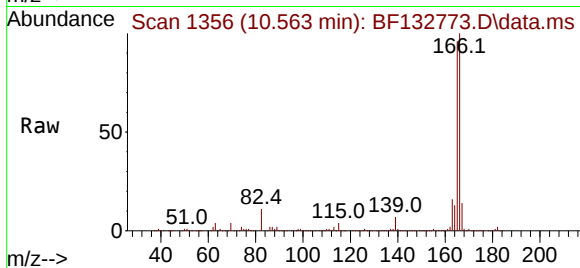
Tgt Ion:166 Resp: 304130

Ion Ratio Lower Upper

166 100

165 95.7 74.2 111.4

167 14.3 11.1 16.7



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.510 min Scan# 1517

Delta R.T. 0.000 min

Lab File: BF132773.D

Acq: 13 Mar 2023 22:04

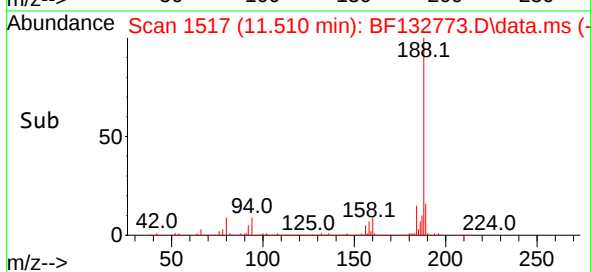
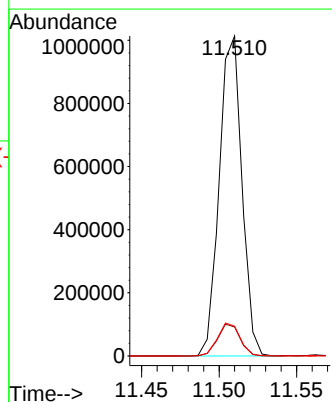
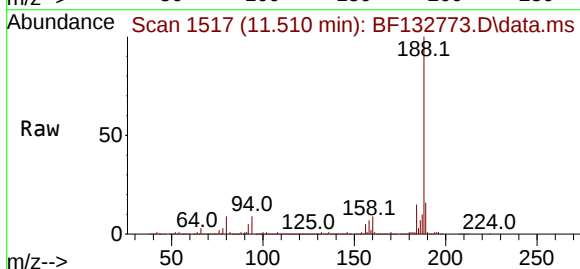
Tgt Ion:188 Resp: 1031053

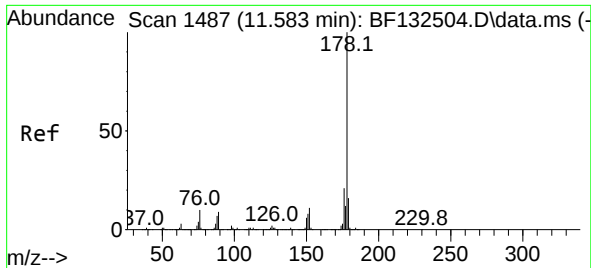
Ion Ratio Lower Upper

188 100

94 9.1 8.3 12.5

80 9.3 8.7 13.1

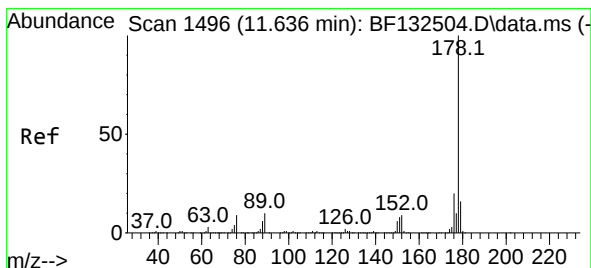
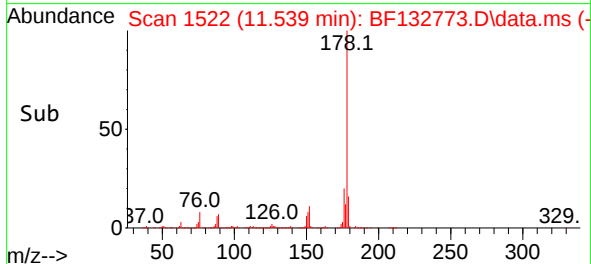
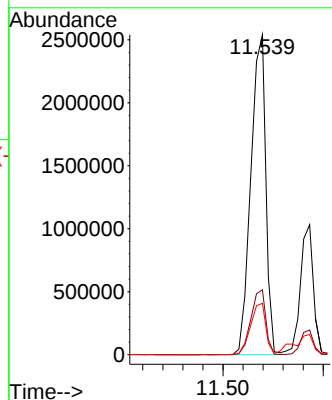
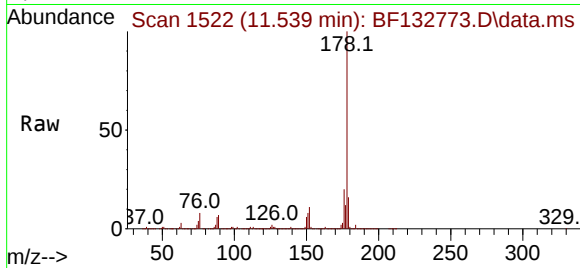




#71
Phenanthrene
Concen: 49.122 ng
RT: 11.539 min Scan# 11530
Delta R.T. 0.000 min
Lab File: BF132773.D
Acq: 13 Mar 2023 22:04

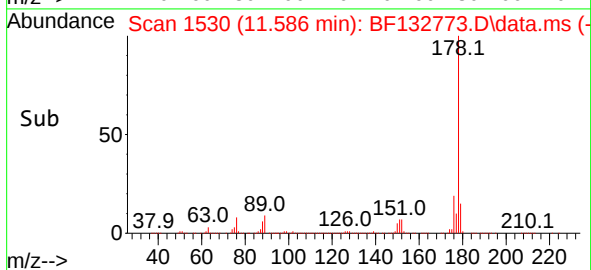
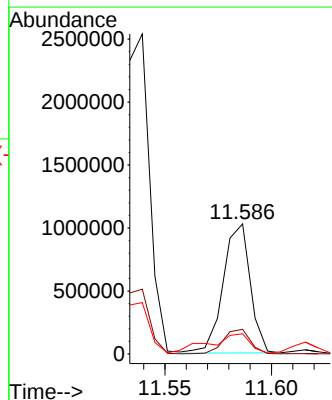
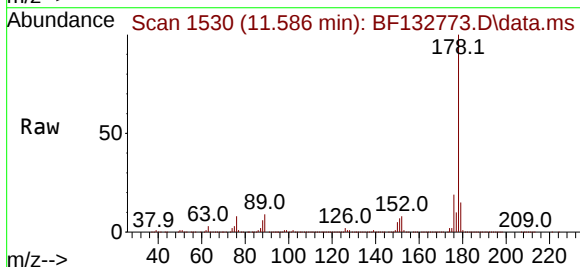
Instrument :
BNA_F
ClientSampleId :
TP-4DL

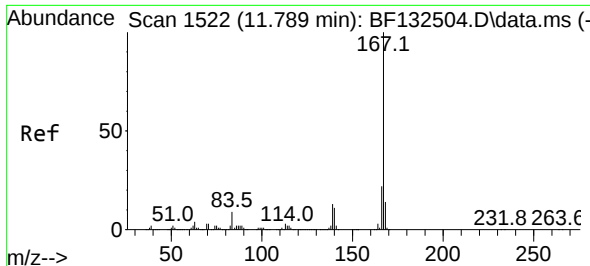
Tgt Ion:178 Resp: 2623766
Ion Ratio Lower Upper
178 100
176 20.2 16.5 24.7
179 16.1 13.0 19.6



#72
Anthracene
Concen: 16.492 ng
RT: 11.586 min Scan# 1530
Delta R.T. -0.006 min
Lab File: BF132773.D
Acq: 13 Mar 2023 22:04

Tgt Ion:178 Resp: 907124
Ion Ratio Lower Upper
178 100
176 19.0 15.6 23.4
179 15.5 12.5 18.7

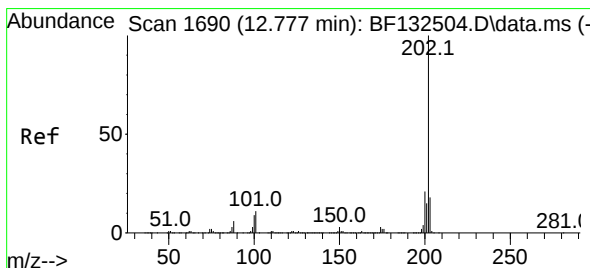
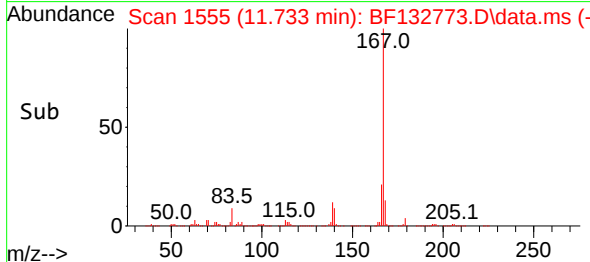
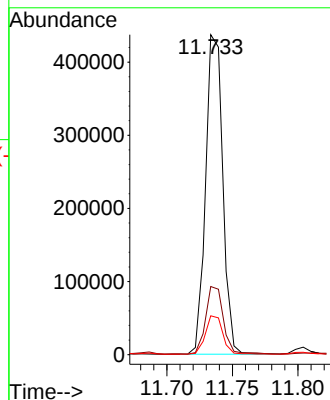
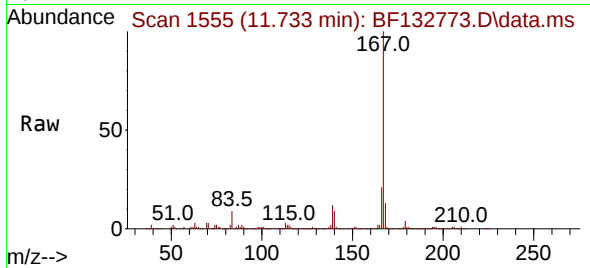




#73
 Carbazole
 Concen: 8.065 ng
 RT: 11.733 min Scan# 1725
 Delta R.T. -0.012 min
 Lab File: BF132773.D
 Acq: 13 Mar 2023 22:04

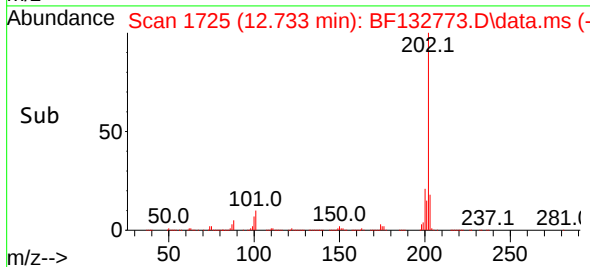
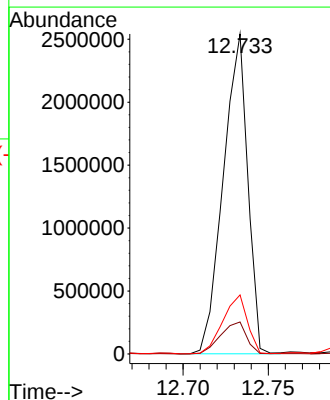
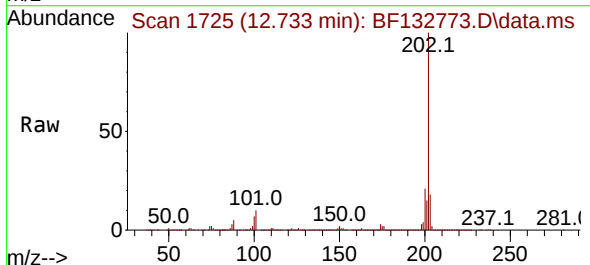
Instrument :
 BNA_F
 ClientSampleId :
 TP-4DL

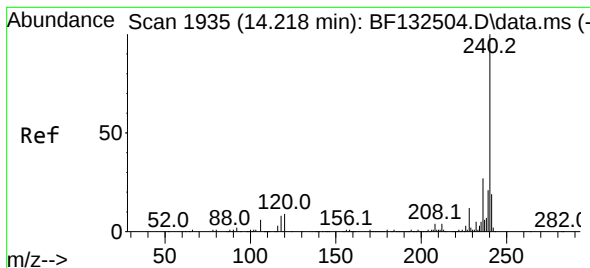
Tgt Ion:167 Resp: 399936
 Ion Ratio Lower Upper
 167 100
 166 21.3 17.7 26.5
 139 12.1 10.5 15.7



#75
 Fluoranthene
 Concen: 43.280 ng
 RT: 12.733 min Scan# 1725
 Delta R.T. 0.000 min
 Lab File: BF132773.D
 Acq: 13 Mar 2023 22:04

Tgt Ion:202 Resp: 2527202
 Ion Ratio Lower Upper
 202 100
 101 10.0 0.0 31.4
 203 18.5 0.0 38.0





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.163 min Scan# 1935

Delta R.T. -0.006 min

Lab File: BF132773.D

Acq: 13 Mar 2023 22:04

Instrument :

BNA_F

ClientSampleId :

TP-4DL

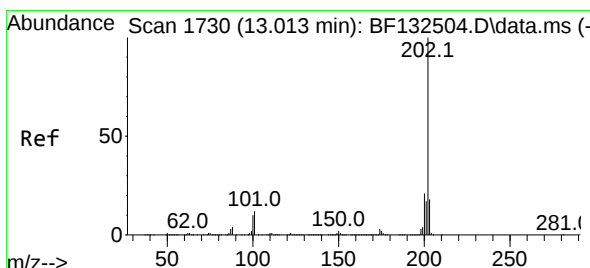
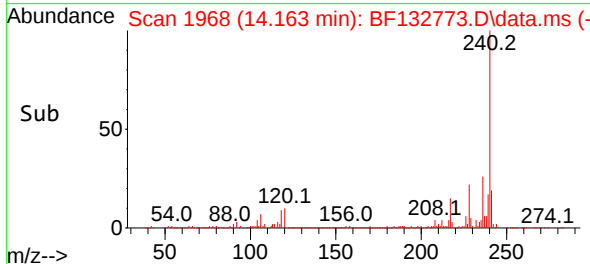
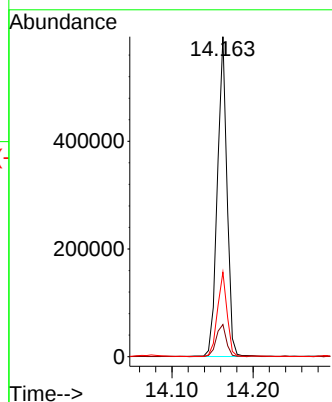
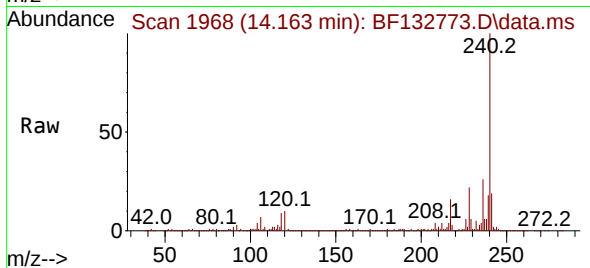
Tgt Ion:240 Resp: 486889

Ion Ratio Lower Upper

240 100

120 10.0 7.2 10.8

236 26.4 21.8 32.6



#78

Pyrene

Concen: 47.115 ng

RT: 12.963 min Scan# 1764

Delta R.T. -0.006 min

Lab File: BF132773.D

Acq: 13 Mar 2023 22:04

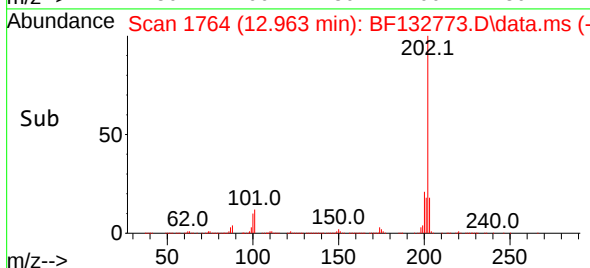
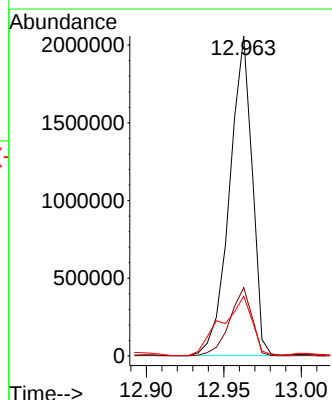
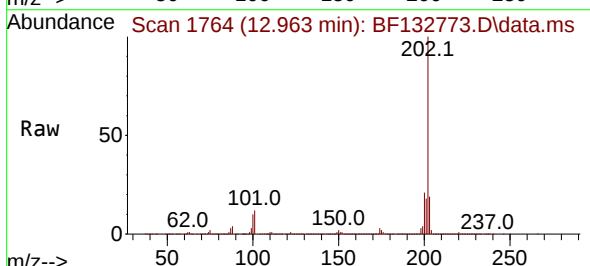
Tgt Ion:202 Resp: 2085648

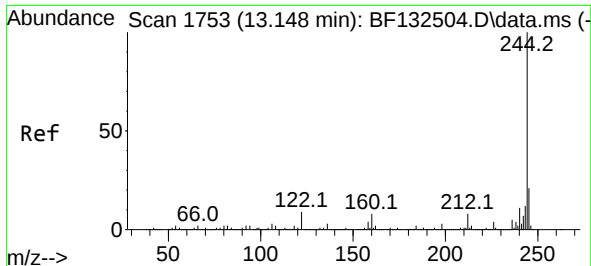
Ion Ratio Lower Upper

202 100

200 21.3 17.1 25.7

203 18.7 14.6 21.8

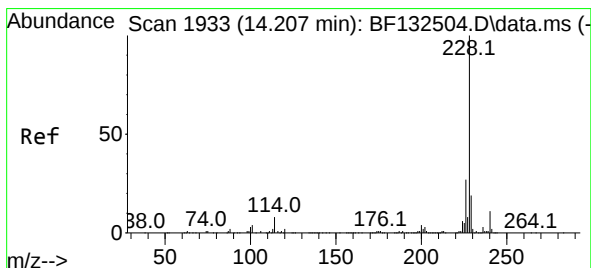
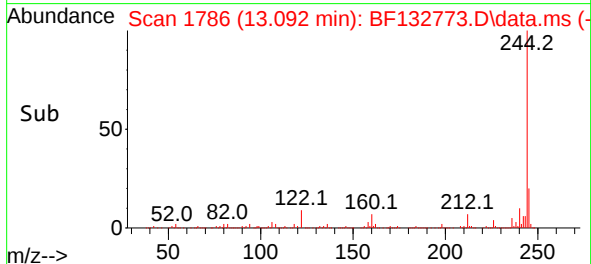
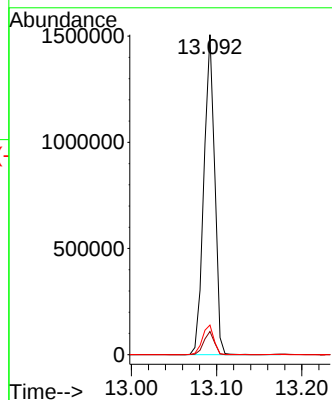
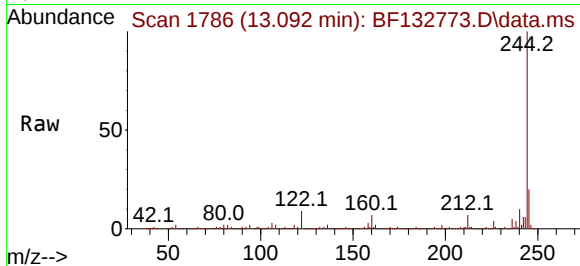




#79
 Terphenyl-d14
 Concen: 46.011 ng
 RT: 13.092 min Scan# 1
 Delta R.T. -0.006 min
 Lab File: BF132773.D
 Acq: 13 Mar 2023 22:04

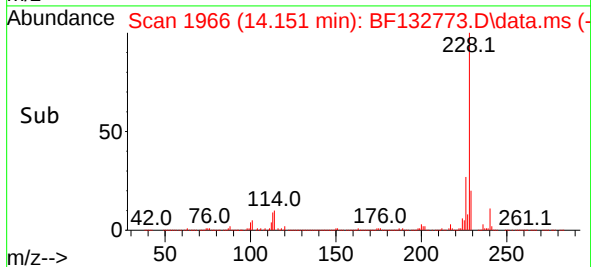
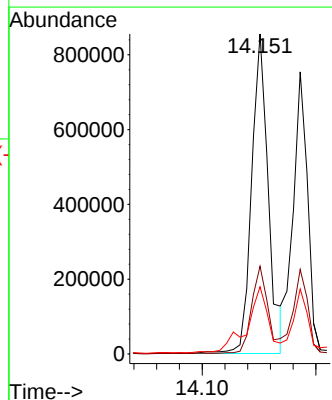
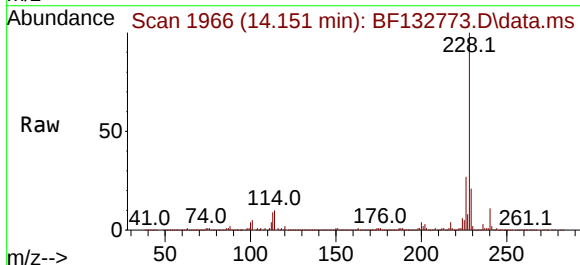
Instrument :
 BNA_F
 ClientSampleId :
 TP-4DL

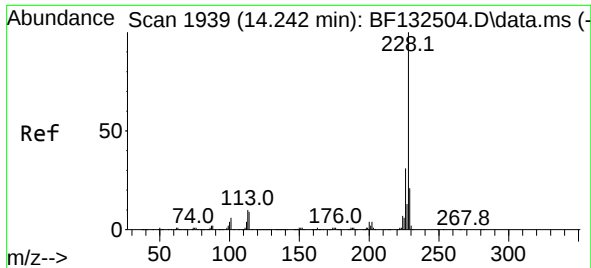
Tgt Ion:244 Resp: 1324994
 Ion Ratio Lower Upper
 244 100
 212 7.3 6.5 9.7
 122 9.3 7.5 11.3



#81
 Benzo(a)anthracene
 Concen: 23.815 ng
 RT: 14.151 min Scan# 1966
 Delta R.T. -0.006 min
 Lab File: BF132773.D
 Acq: 13 Mar 2023 22:04

Tgt Ion:228 Resp: 867578
 Ion Ratio Lower Upper
 228 100
 226 27.4 21.7 32.5
 229 21.0 15.4 23.2

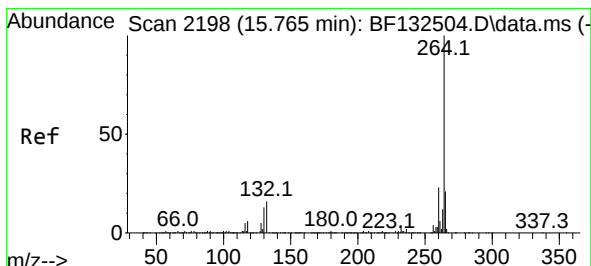
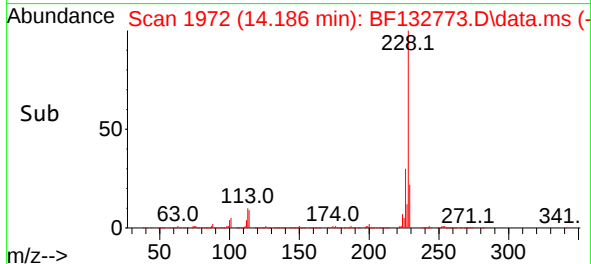
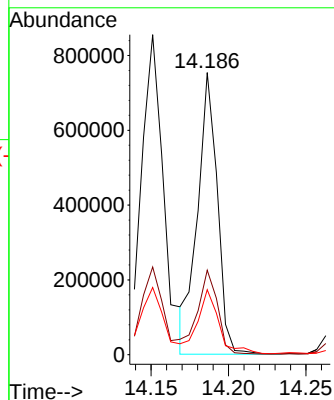
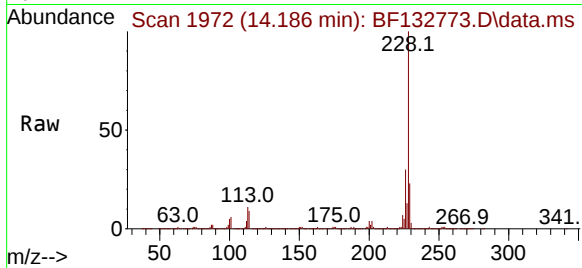




#83
Chrysene
Concen: 19.615 ng
RT: 14.186 min Scan# 1939
Delta R.T. -0.012 min
Lab File: BF132773.D
Acq: 13 Mar 2023 22:04

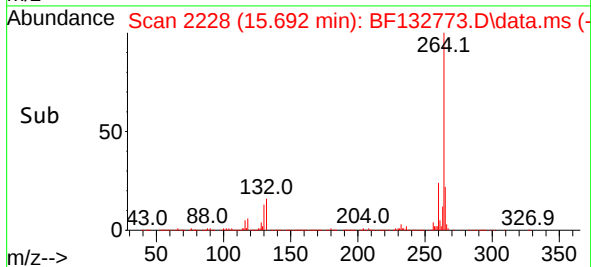
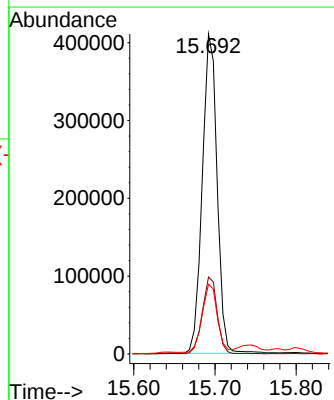
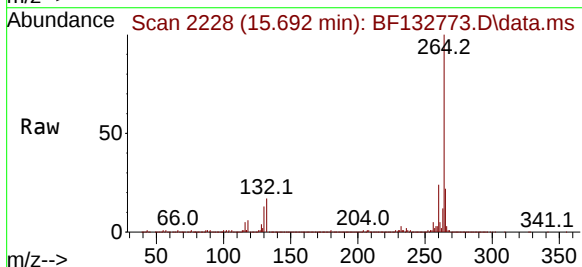
Instrument :
BNA_F
ClientSampleId :
TP-4DL

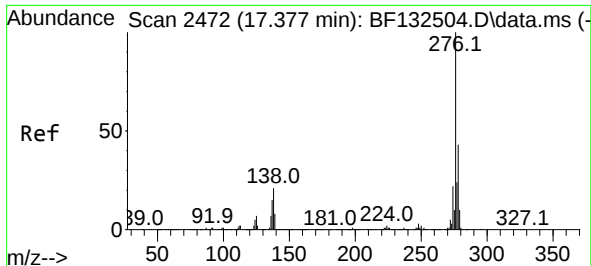
Tgt Ion:228 Resp: 668234
Ion Ratio Lower Upper
228 100
226 29.9 25.0 37.6
229 23.0 16.4 24.6



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.692 min Scan# 2228
Delta R.T. -0.006 min
Lab File: BF132773.D
Acq: 13 Mar 2023 22:04

Tgt Ion:264 Resp: 520454
Ion Ratio Lower Upper
264 100
260 24.0 18.8 28.2
265 21.8 17.1 25.7

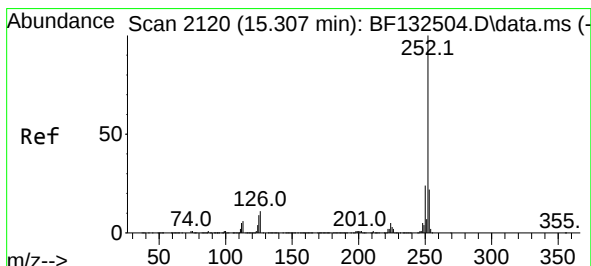
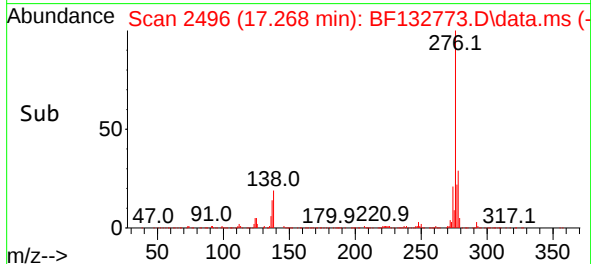
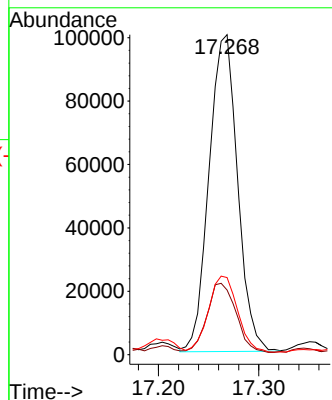
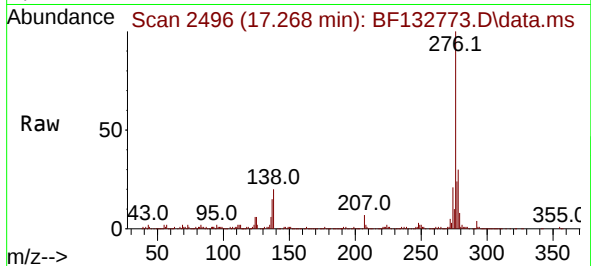




#87
 Indeno(1,2,3-cd)pyrene
 Concen: 5.794 ng
 RT: 17.268 min Scan# 2496
 Delta R.T. -0.023 min
 Lab File: BF132773.D
 Acq: 13 Mar 2023 22:04

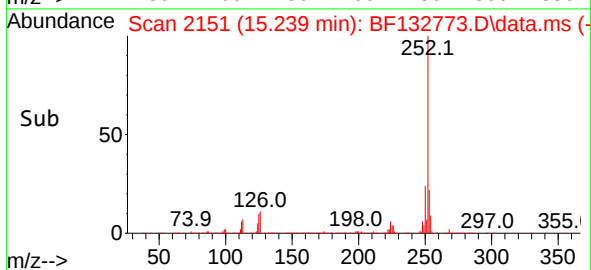
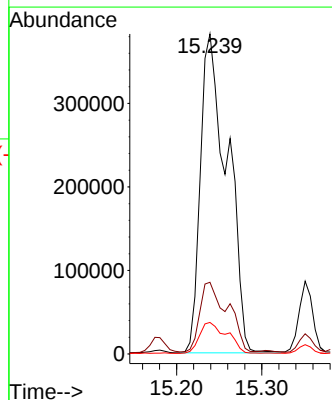
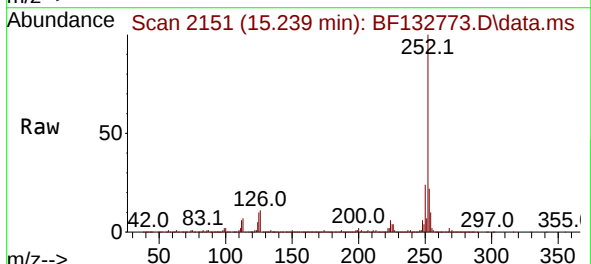
Instrument :
 BNA_F
 ClientSampleId :
 TP-4DL

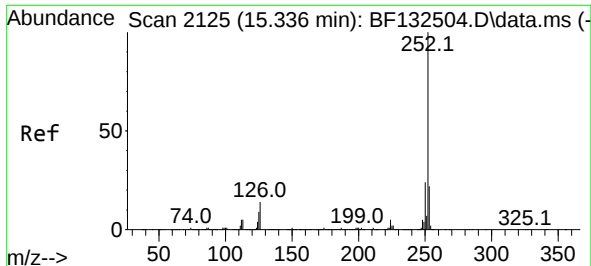
Tgt Ion:276 Resp: 197592
 Ion Ratio Lower Upper
 276 100
 138 22.2 19.0 28.4
 277 24.3 20.0 30.0



#88
 Benzo(b)fluoranthene
 Concen: 24.061 ng
 RT: 15.239 min Scan# 2151
 Delta R.T. -0.006 min
 Lab File: BF132773.D
 Acq: 13 Mar 2023 22:04

Tgt Ion:252 Resp: 839197
 Ion Ratio Lower Upper
 252 100
 253 22.4 17.4 26.0
 125 9.9 7.0 10.6

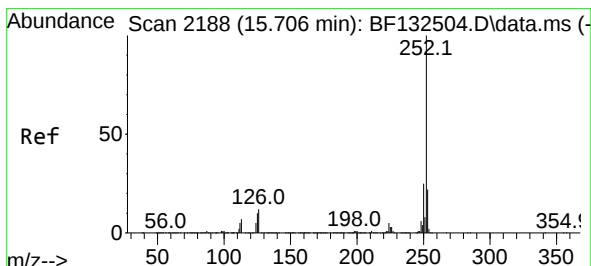
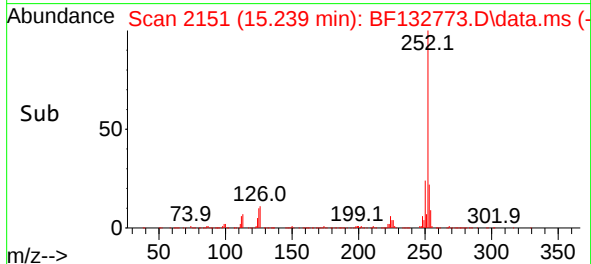
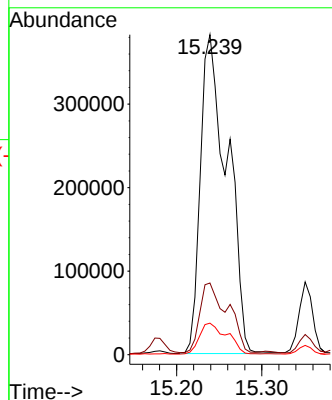
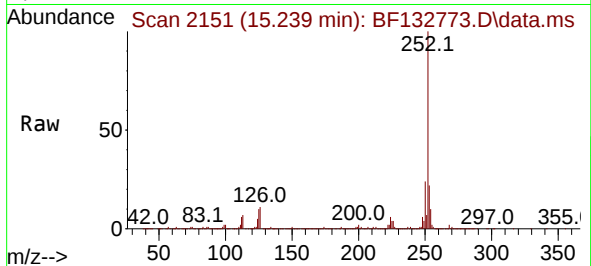




#89
Benzo(k)fluoranthene
Concen: 24.585 ng
RT: 15.239 min Scan# 2117
Delta R.T. -0.035 min
Lab File: BF132773.D
Acq: 13 Mar 2023 22:04

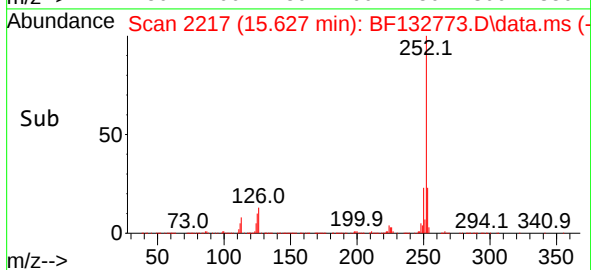
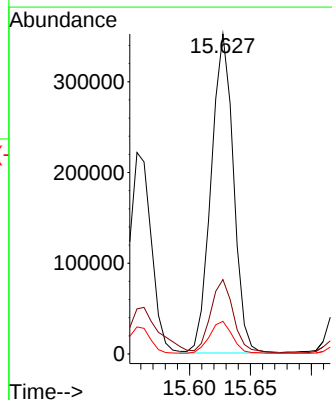
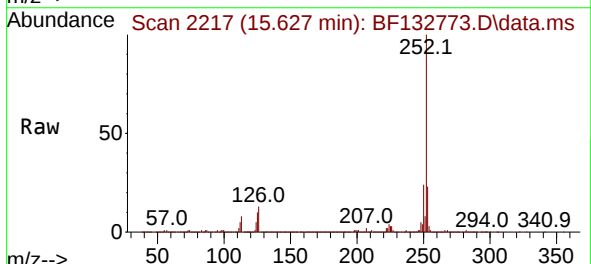
Instrument :
BNA_F
ClientSampleId :
TP-4DL

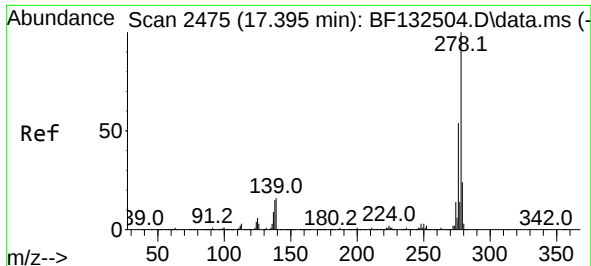
Tgt Ion:252 Resp: 839197
Ion Ratio Lower Upper
252 100
253 22.4 17.5 26.3
125 9.9 7.2 10.8



#90
Benzo(a)pyrene
Concen: 13.754 ng
RT: 15.627 min Scan# 2217
Delta R.T. -0.012 min
Lab File: BF132773.D
Acq: 13 Mar 2023 22:04

Tgt Ion:252 Resp: 448986
Ion Ratio Lower Upper
252 100
253 23.3 17.2 25.8
125 10.2 8.0 12.0

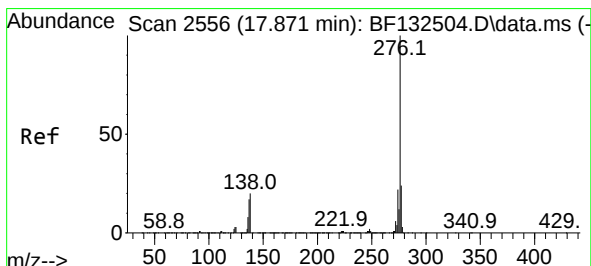
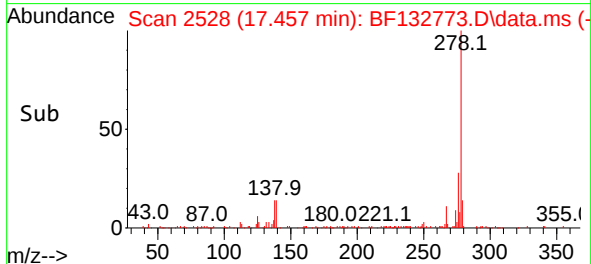
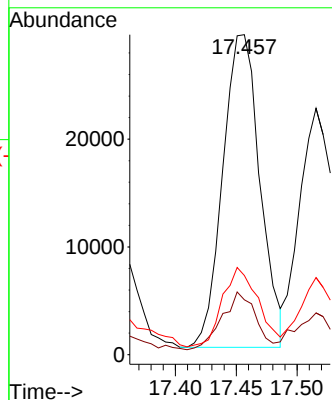
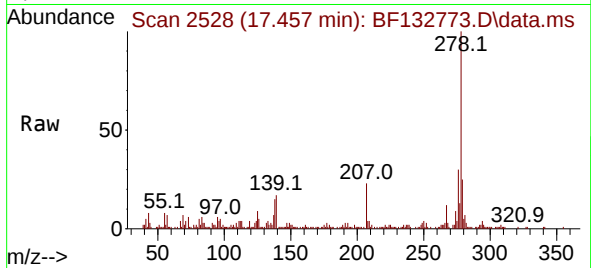




#91
Dibenzo(a,h)anthracene
Concen: 2.221 ng
RT: 17.457 min Scan# 21
Delta R.T. 0.159 min
Lab File: BF132773.D
Acq: 13 Mar 2023 22:04

Instrument :
BNA_F
ClientSampleId :
TP-4DL

Tgt Ion:278 Resp: 61724
Ion Ratio Lower Upper
278 100
139 17.2 13.0 19.4
279 24.7 19.0 28.4



#92
Benzo(g,h,i)perylene
Concen: 6.087 ng
RT: 17.745 min Scan# 2577
Delta R.T. -0.023 min
Lab File: BF132773.D
Acq: 13 Mar 2023 22:04

Tgt Ion:276 Resp: 145322
Ion Ratio Lower Upper
276 100
277 23.3 18.9 28.3
138 20.9 16.2 24.4

