FIG. 1

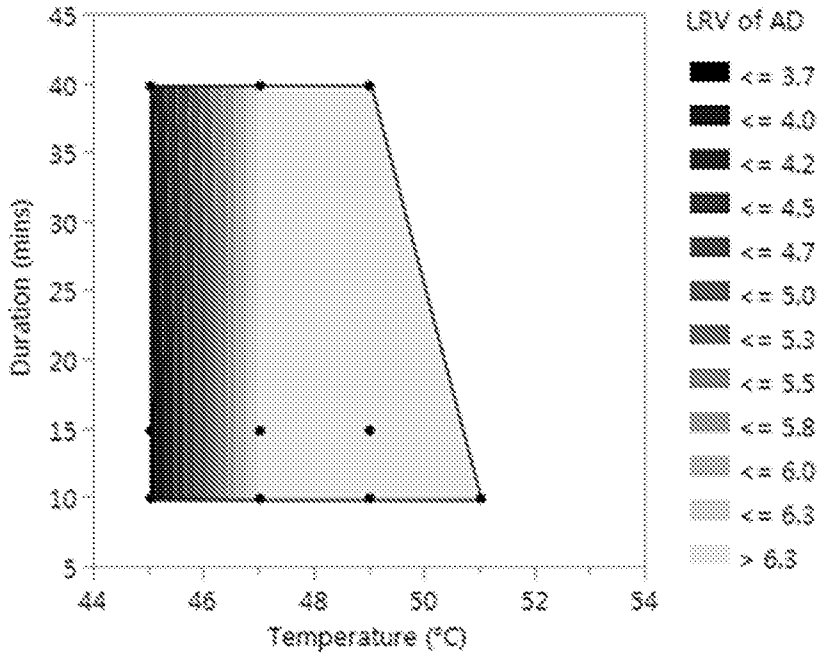

LRV of AD
<= 3.7
<= 4.0
<= 4.2
<= 4.5
<= 4.7
<= 5.0
<= 5.3
<= 5.5
<= 5.8
<= 6.0
<= 6.3
> 6.3
Duration (mins)
45
40
35
30
25
20
15
10
5
44
46
48
50
52
54
Temperature (°C)

FIG. 2

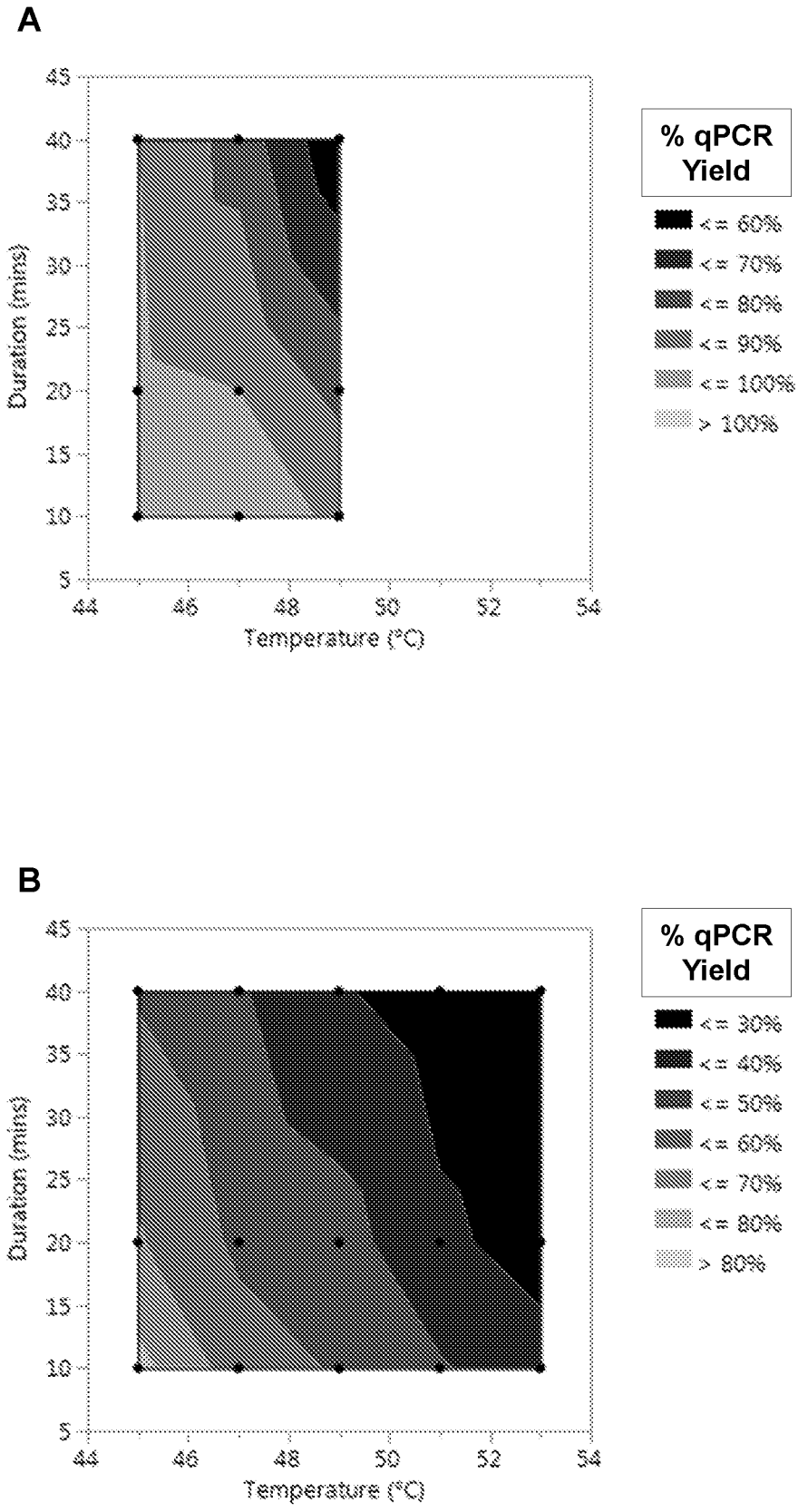
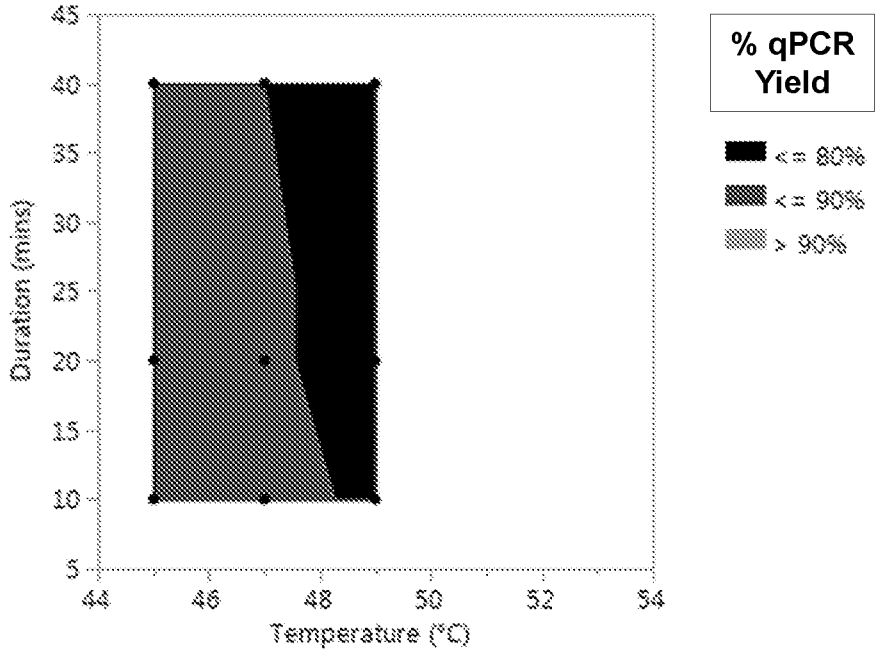

A
Duration (mins)
Temperature (°C)
% qPCR Yield
<= 60%
<= 70%
<= 80%
<= 90%
<= 100%
> 100%
B
Duration (mins)
Temperature (°C)
% qPCR Yield
<= 30%
<= 40%
<= 50%
<= 60%
<= 70%
<= 80%
> 80%

FIG. 2 (Cont.)

C


% qPCR Yield
<= 80%
<= 90%
> 90%
Duration (mins)
Temperature (°C)
5
10
15
20
25
30
35
40
45
44
46
48
50
52
54

D

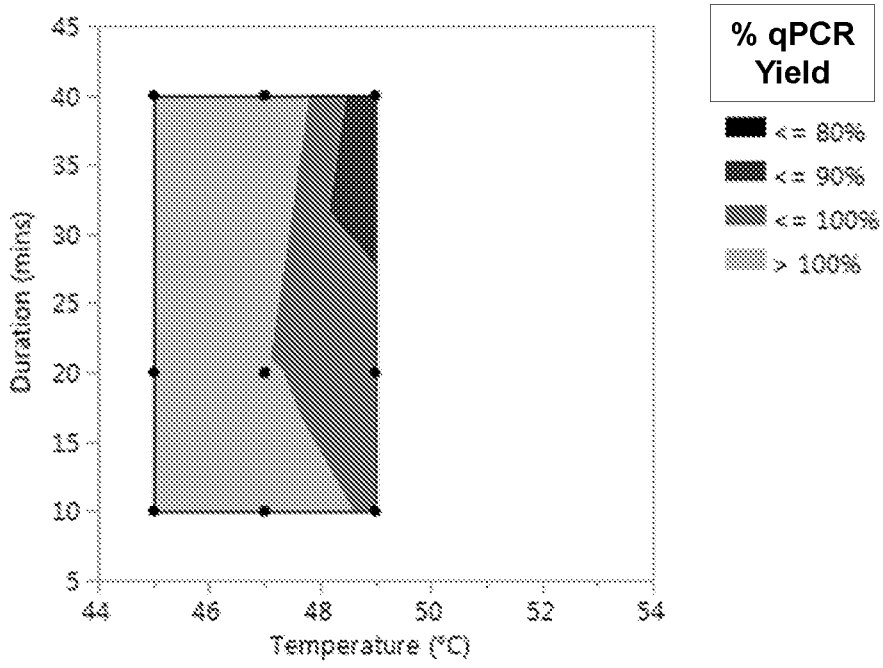

% qPCR Yield
<= 80%
<= 90%
<= 100%
> 100%
Duration (mins)
Temperature (°C)
5
10
15
20
25
30
35
40
45
44
46
48
50
52
54

FIG. 3

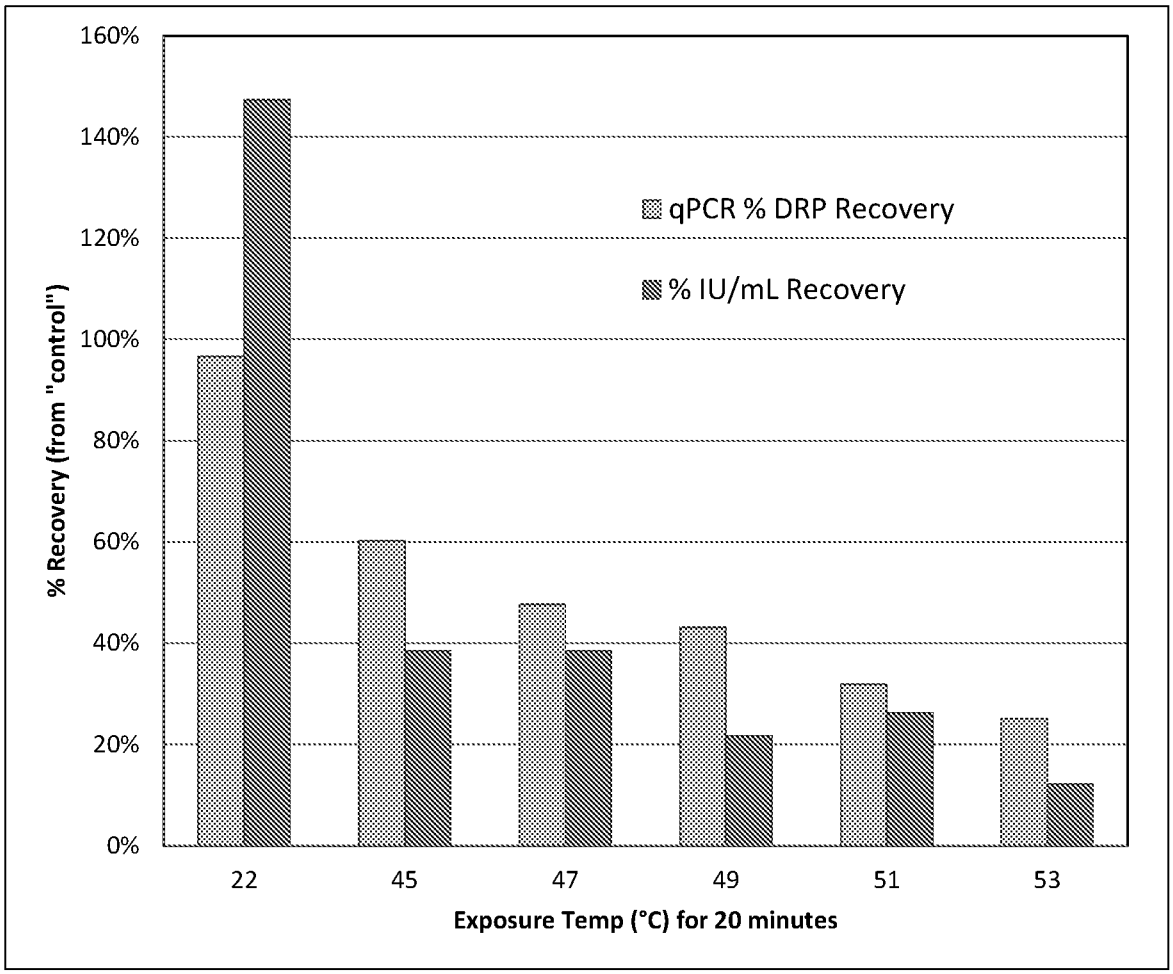

160%
140%
120%
100%
80%
60%
40%
20%
0%
% Recovery (from "control")
qPCR % DRP Recovery
% IU/mL Recovery
22
45
47
49
51
53
Exposure Temp (°C) for 20 minutes

FIG. 4

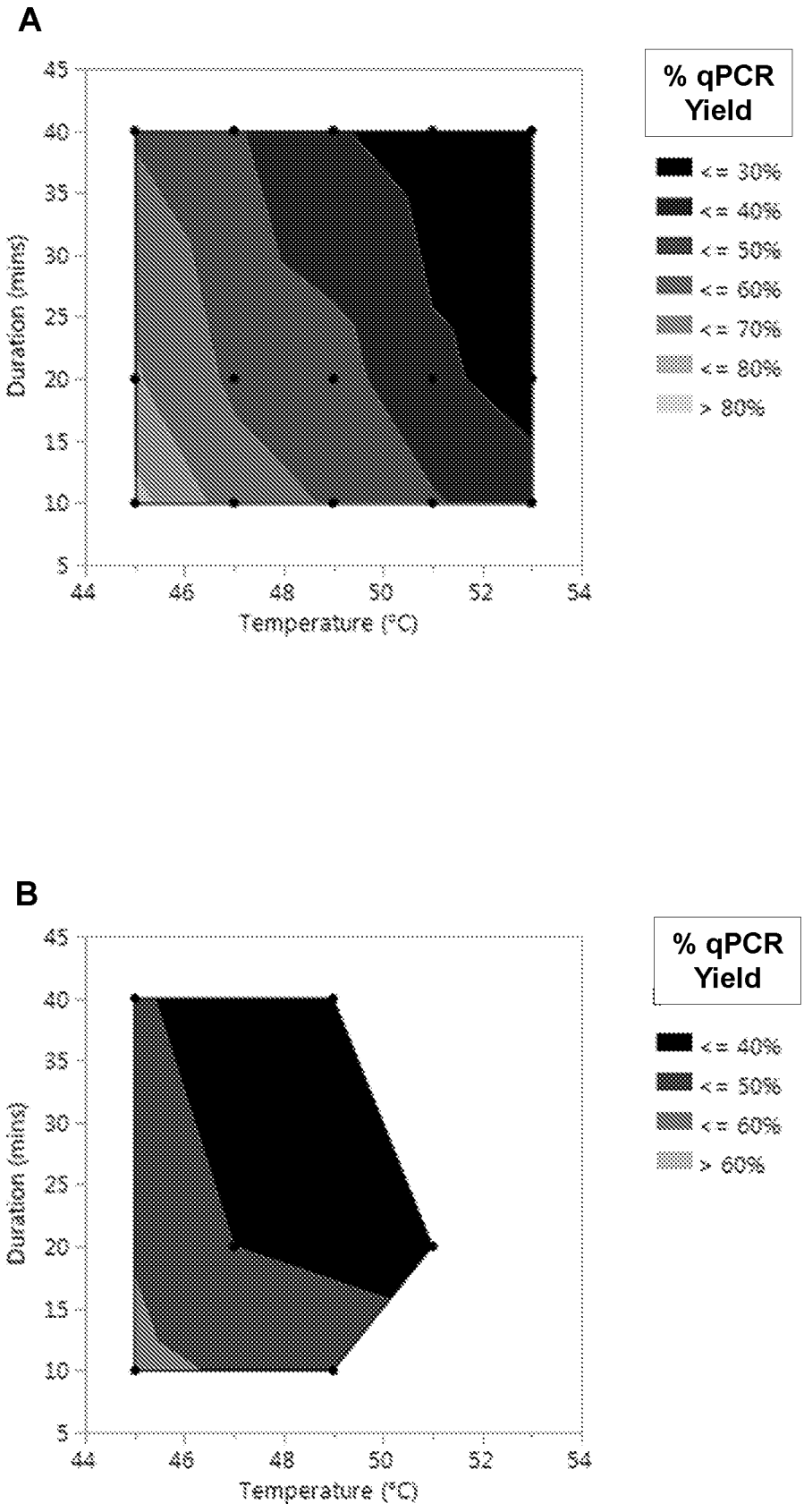
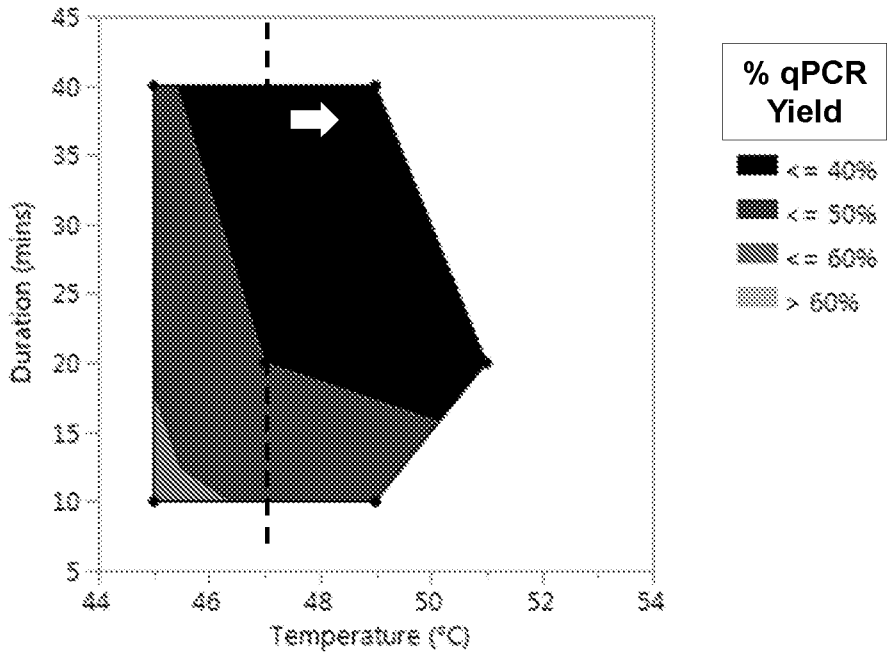

A
% qPCR Yield
<= 30%
<= 40%
<= 50%
<= 60%
<= 70%
<= 80%
> 80%
Duration (mins)
Temperature (°C)
B
% qPCR Yield
<= 40%
<= 50%
<= 60%
> 60%
Duration (mins)
Temperature (°C)

FIG. 5

A


Duration (mins)
45
40
35
30
25
20
15
10
5
44
46
48
50
52
54
Temperature (°C)
% qPCR Yield
< = 40%
< = 50%
< = 60%
> 60%

B

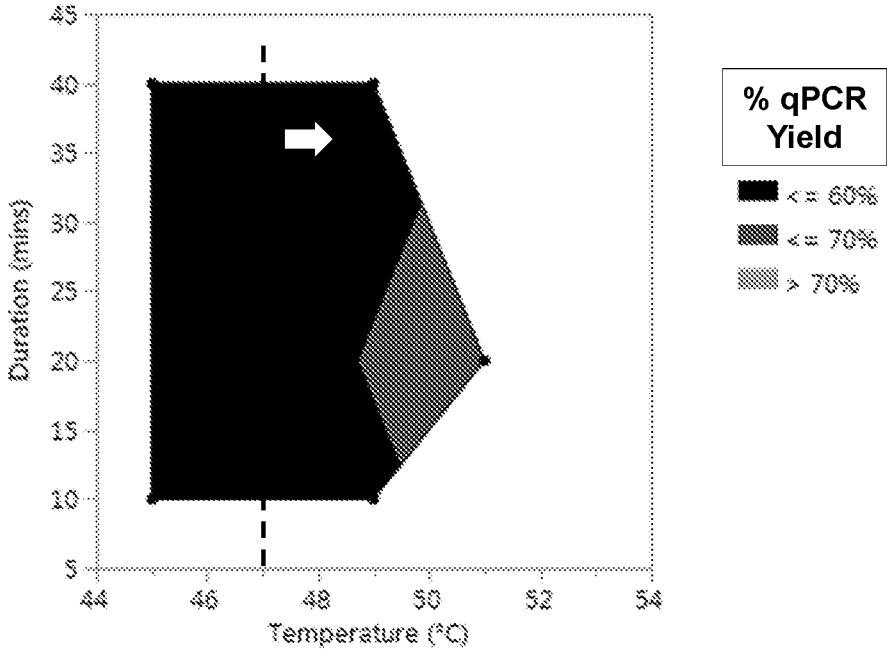

Duration (mins)
45
40
35
30
25
20
15
10
5
44
46
48
50
52
54
Temperature (°C)
% qPCR Yield
< = 60%
< = 70%
> 70%

FIG. 6

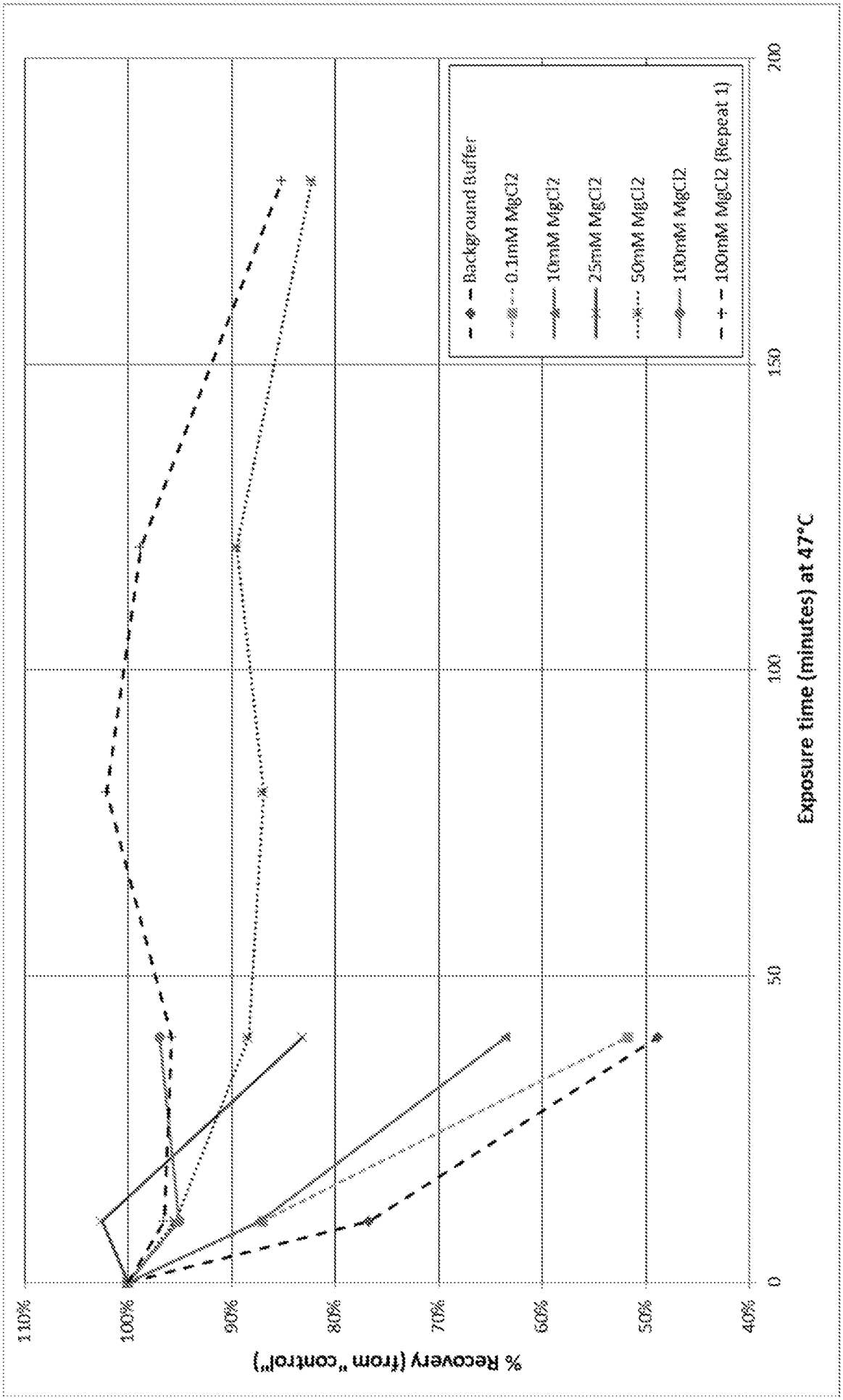

% Recovery (from "control")
110%
100%
90%
80%
70%
60%
50%
40%
0
50
100
150
200
Exposure time (minutes) at 47°C
Background Buffer
0.1mM MgCl2
10mM MgCl2
25mM MgCl2
50mM MgCl2
100mM MgCl2
100mM MgCl2 (Repeat 1)

FIG. 7

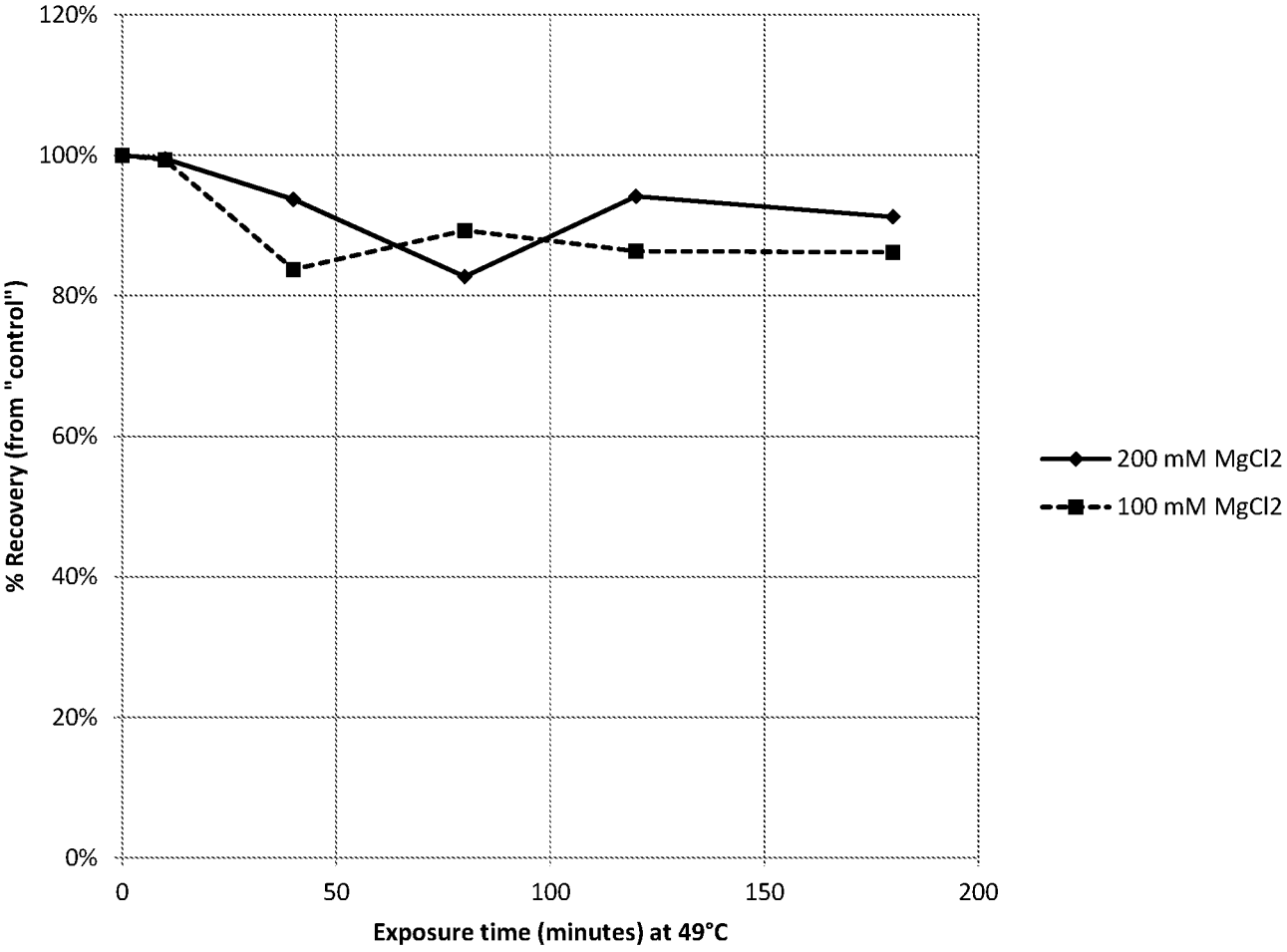

120%
100%
80%
60%
40%
20%
0%
% Recovery (from "control")
0
50
100
150
200
Exposure time (minutes) at 49°C
200 mM MgCl2
100 mM MgCl2

FIG. 8

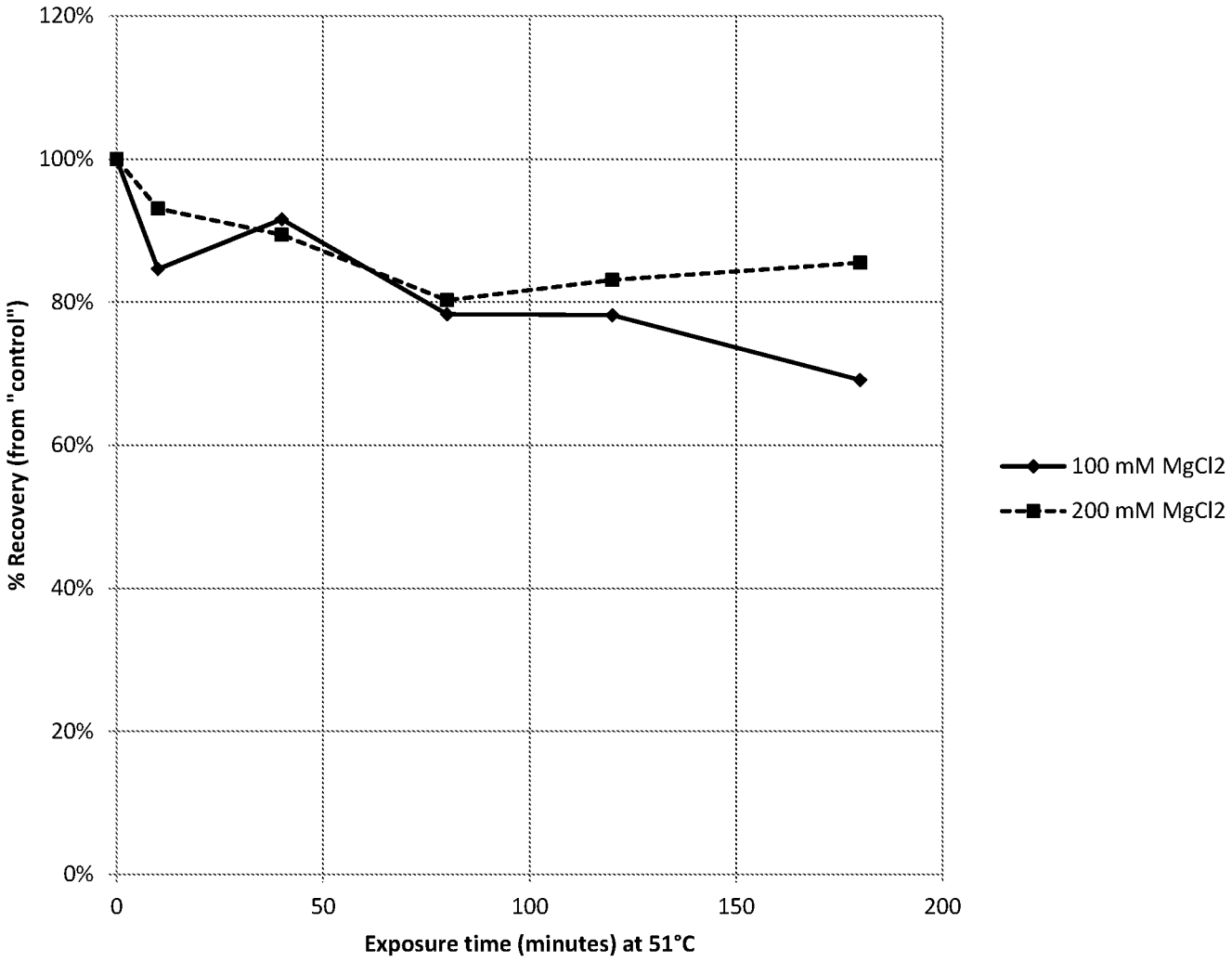

120%
100%
80%
60%
40%
20%
0%
% Recovery (from "control")
0
50
100
150
200
Exposure time (minutes) at 51°C
100 mM MgCl2
200 mM MgCl2

FIG. 9

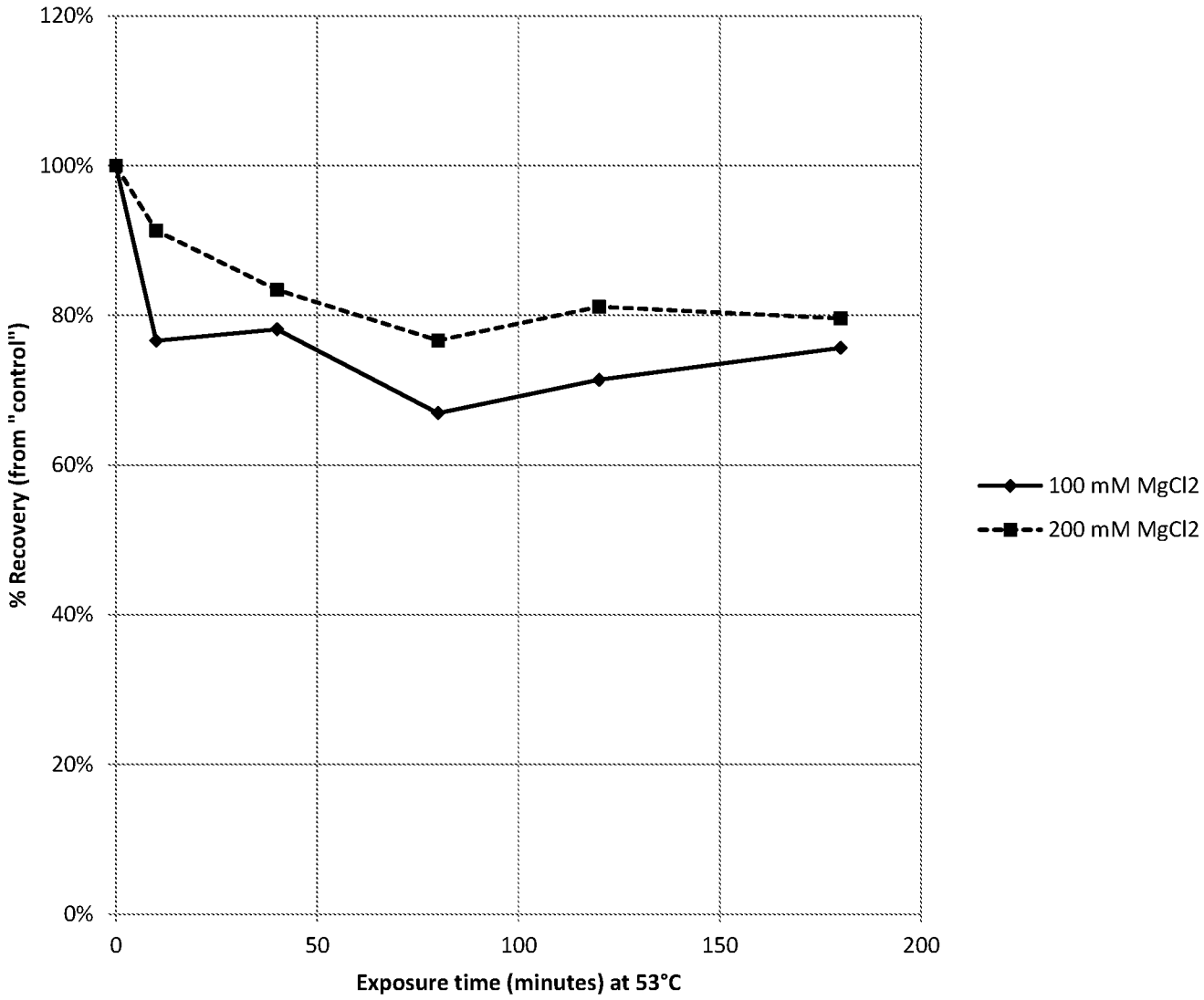

120%
100%
80%
60%
40%
20%
0%
% Recovery (from "control")
0
50
100
150
200
Exposure time (minutes) at 53°C
100 mM MgCl2
200 mM MgCl2

FIG. 10

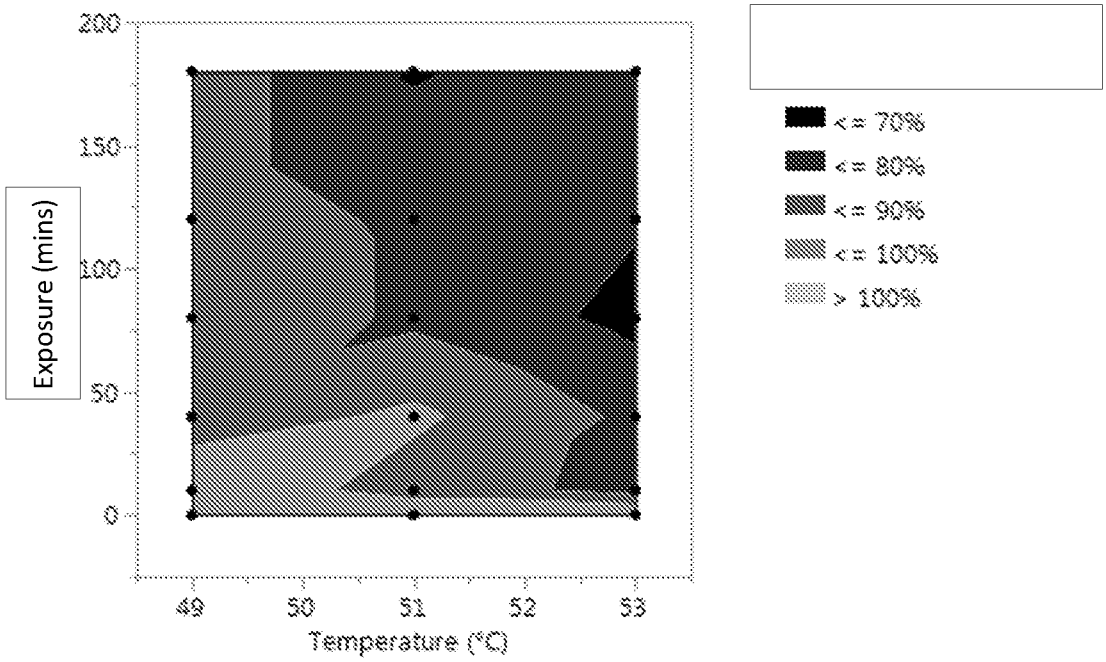
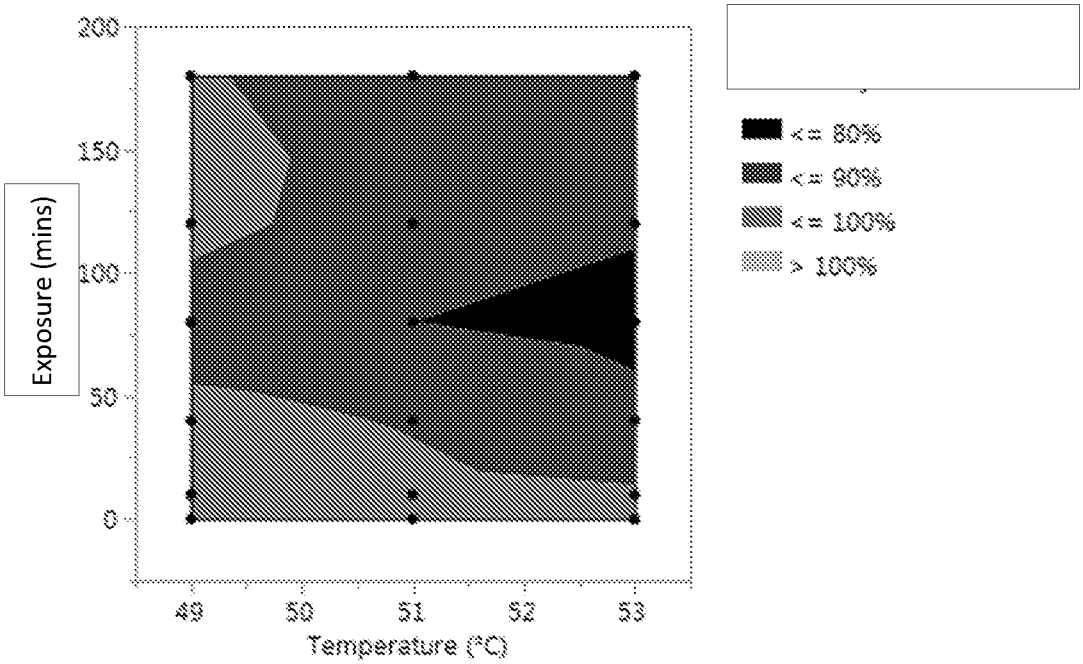

200
150
100
50
0
Exposure (mins)
49
50
51
52
53
Temperature (°C)
<= 70%
<= 80%
<= 90%
<= 100%
> 100%

FIG. 11


200
150
100
50
0
Exposure (mins)
49
50
51
52
53
Temperature (°C)
<= 80%
<= 90%
<= 100%
> 100%