

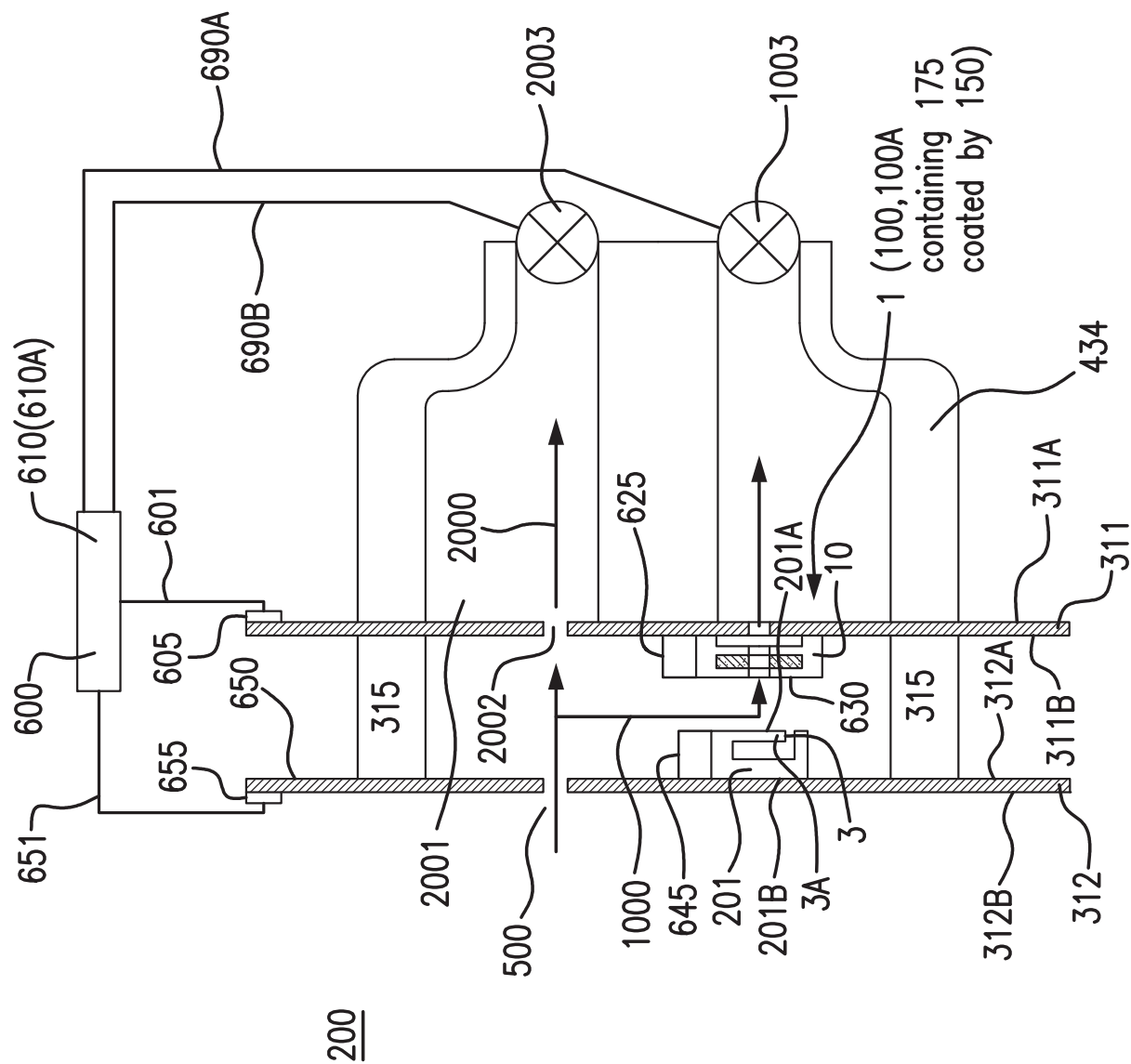
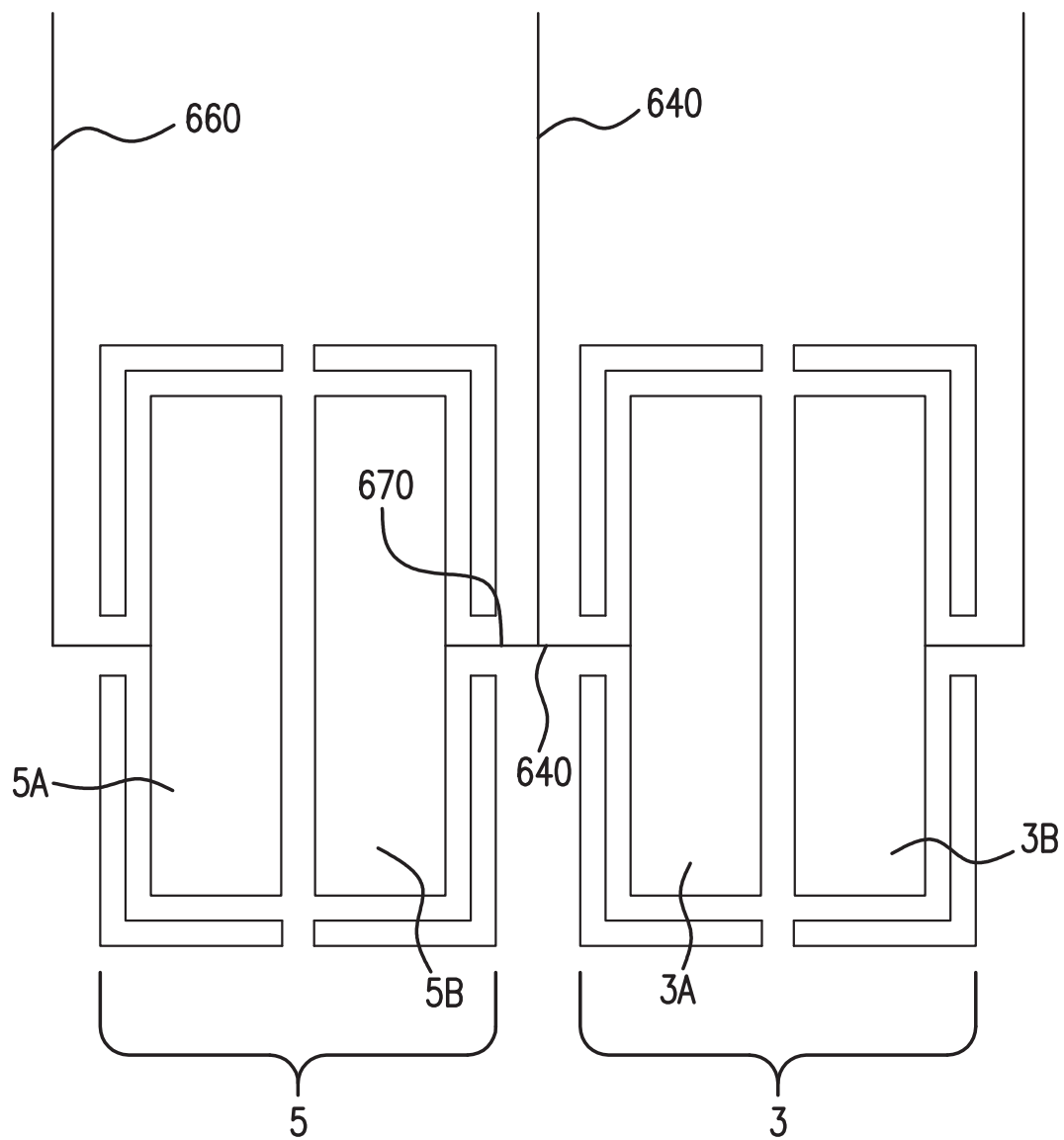
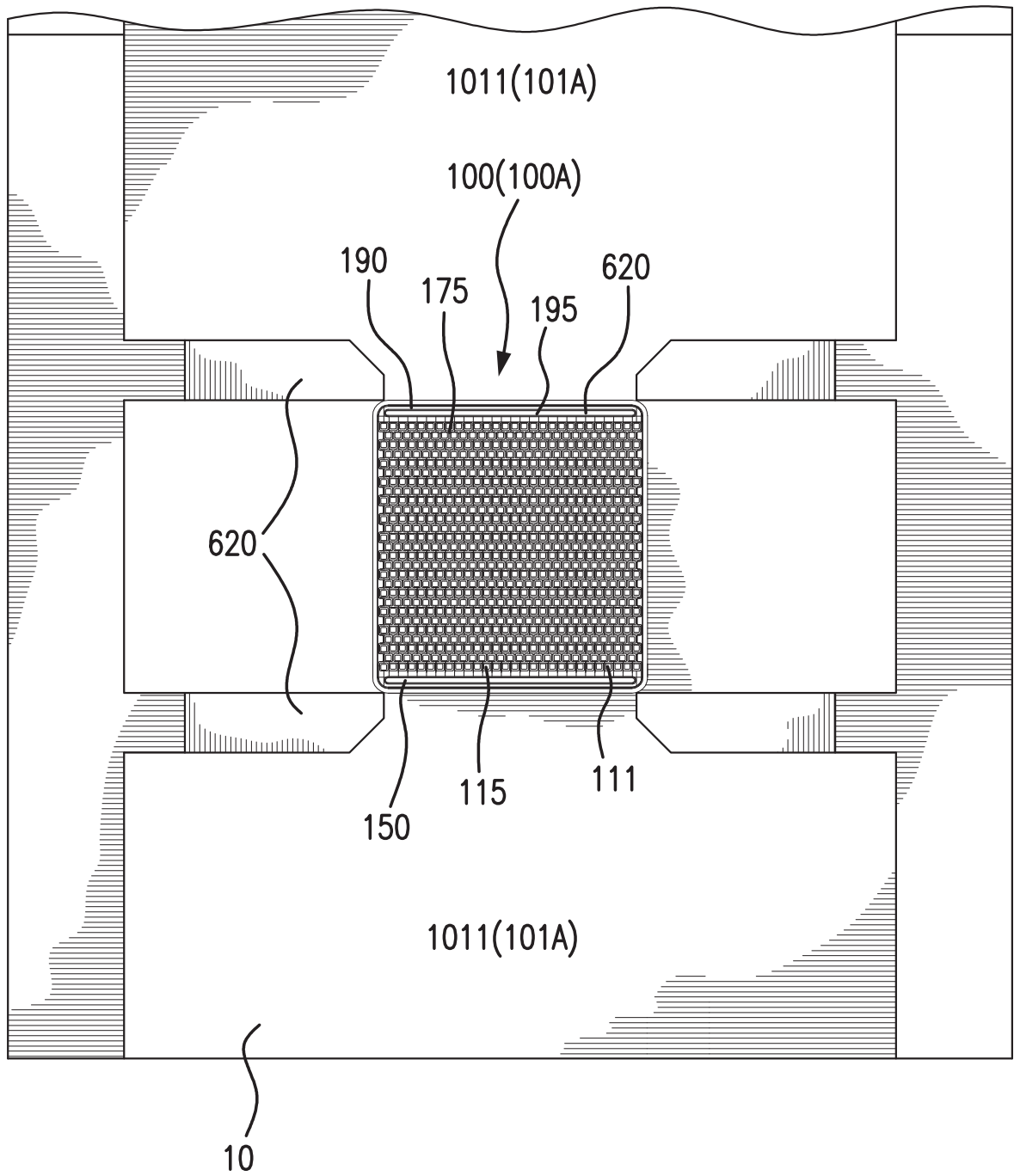


FIG. 1

**FIG. 2**

**FIG. 3A**

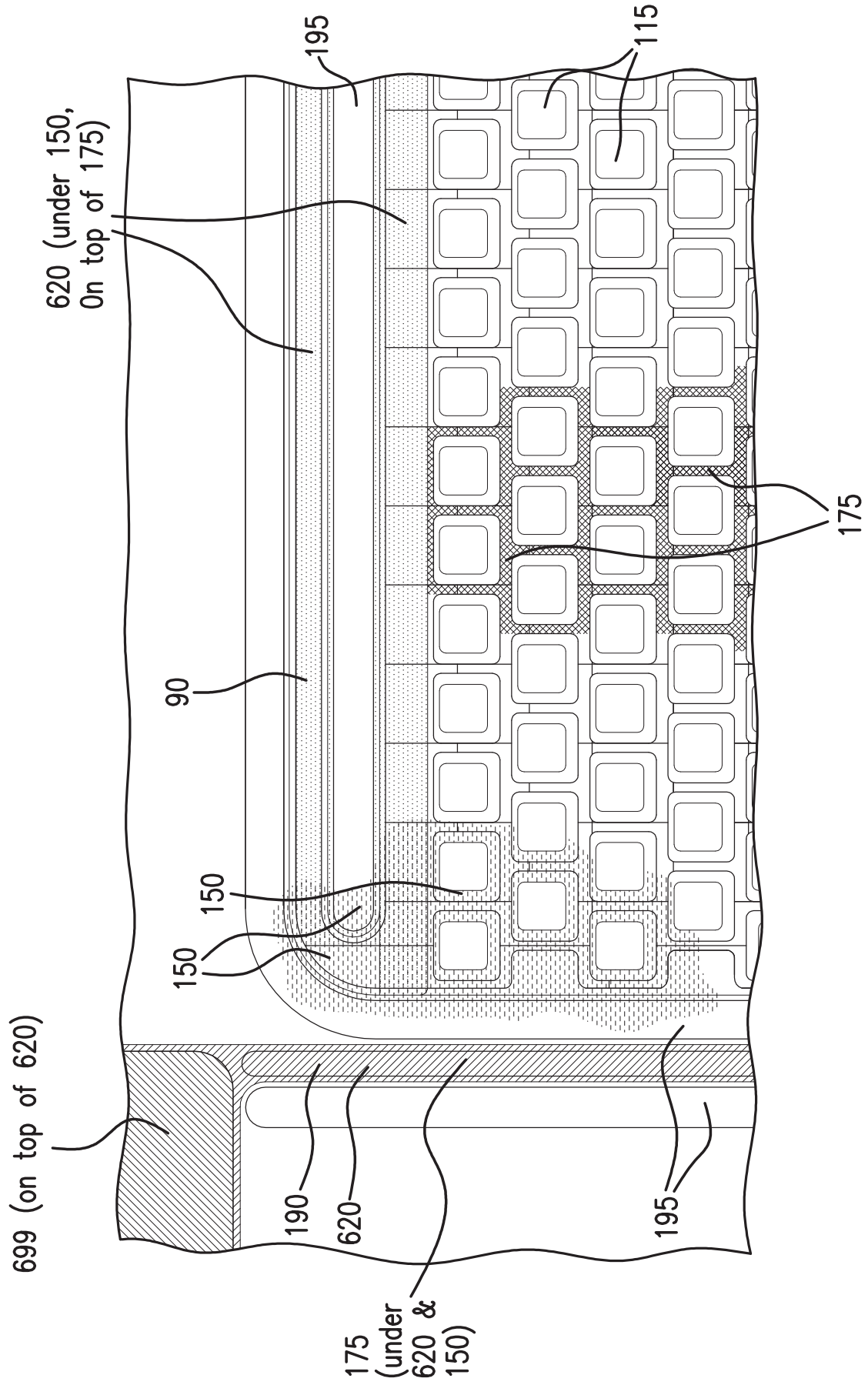
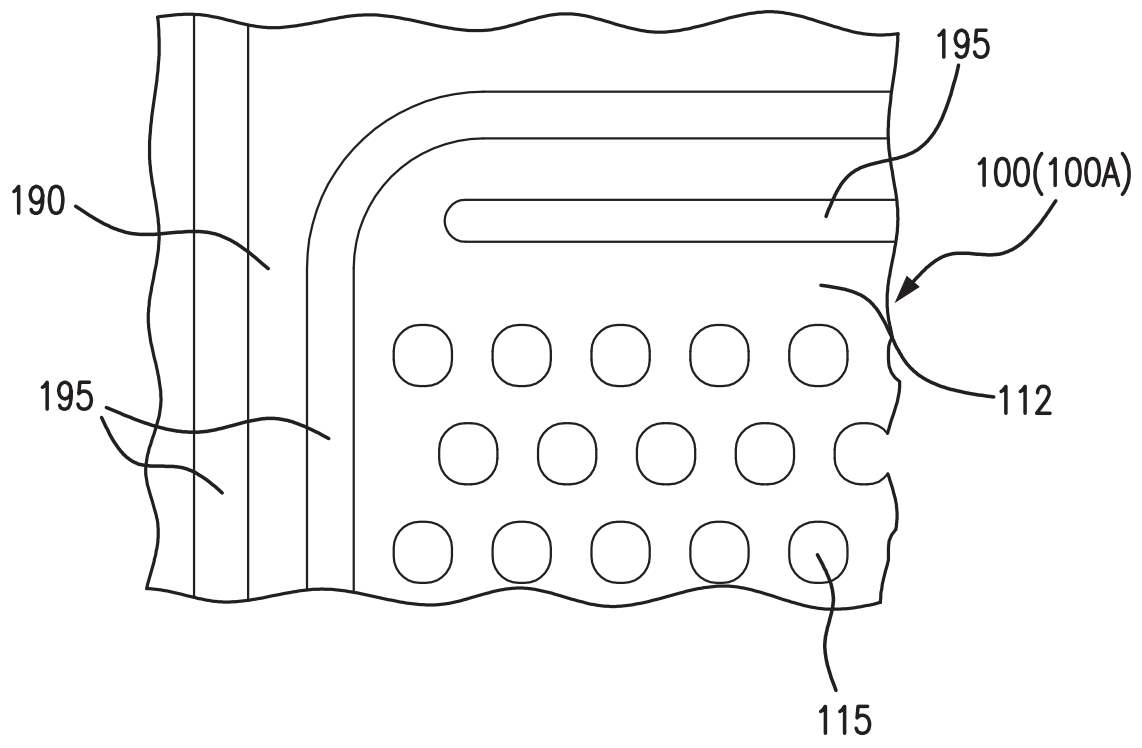


FIG. 3B

**FIG. 3C**

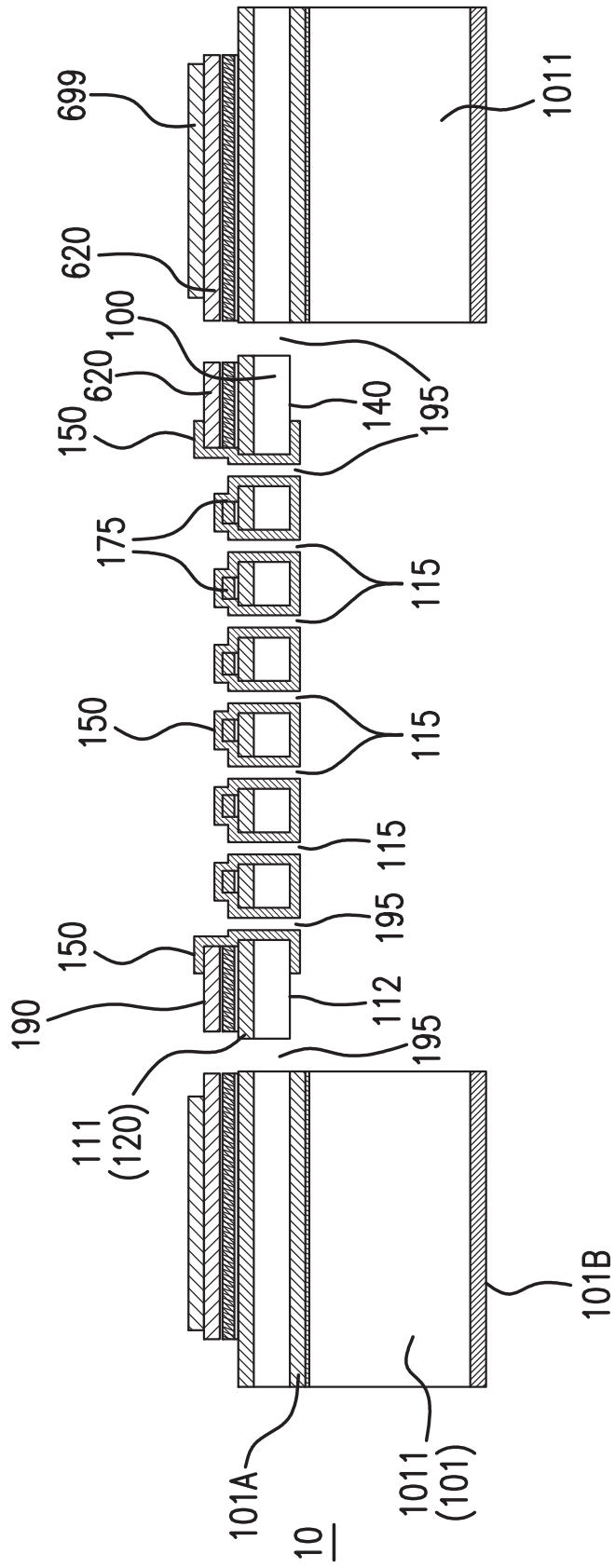


FIG. 3D

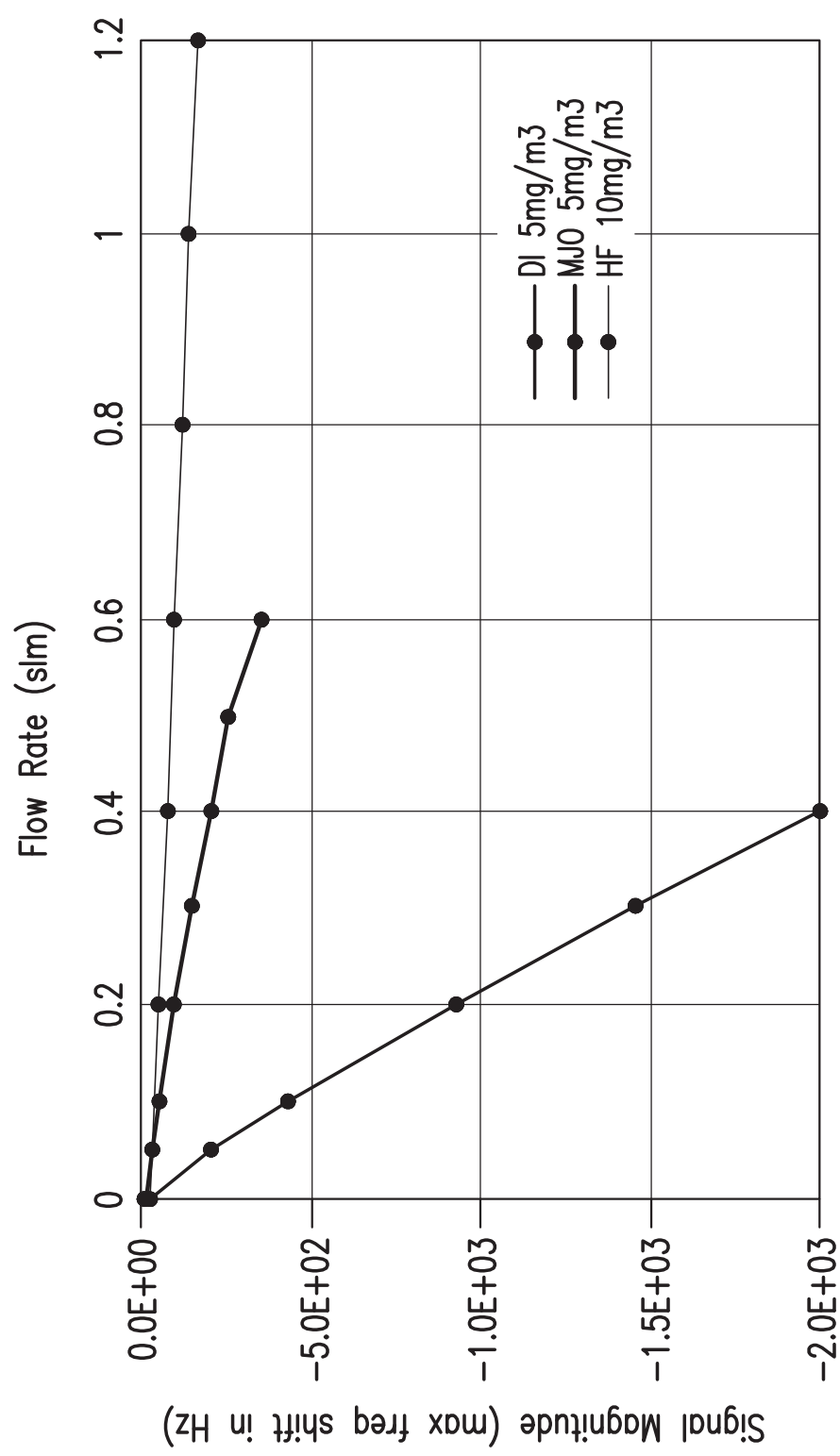
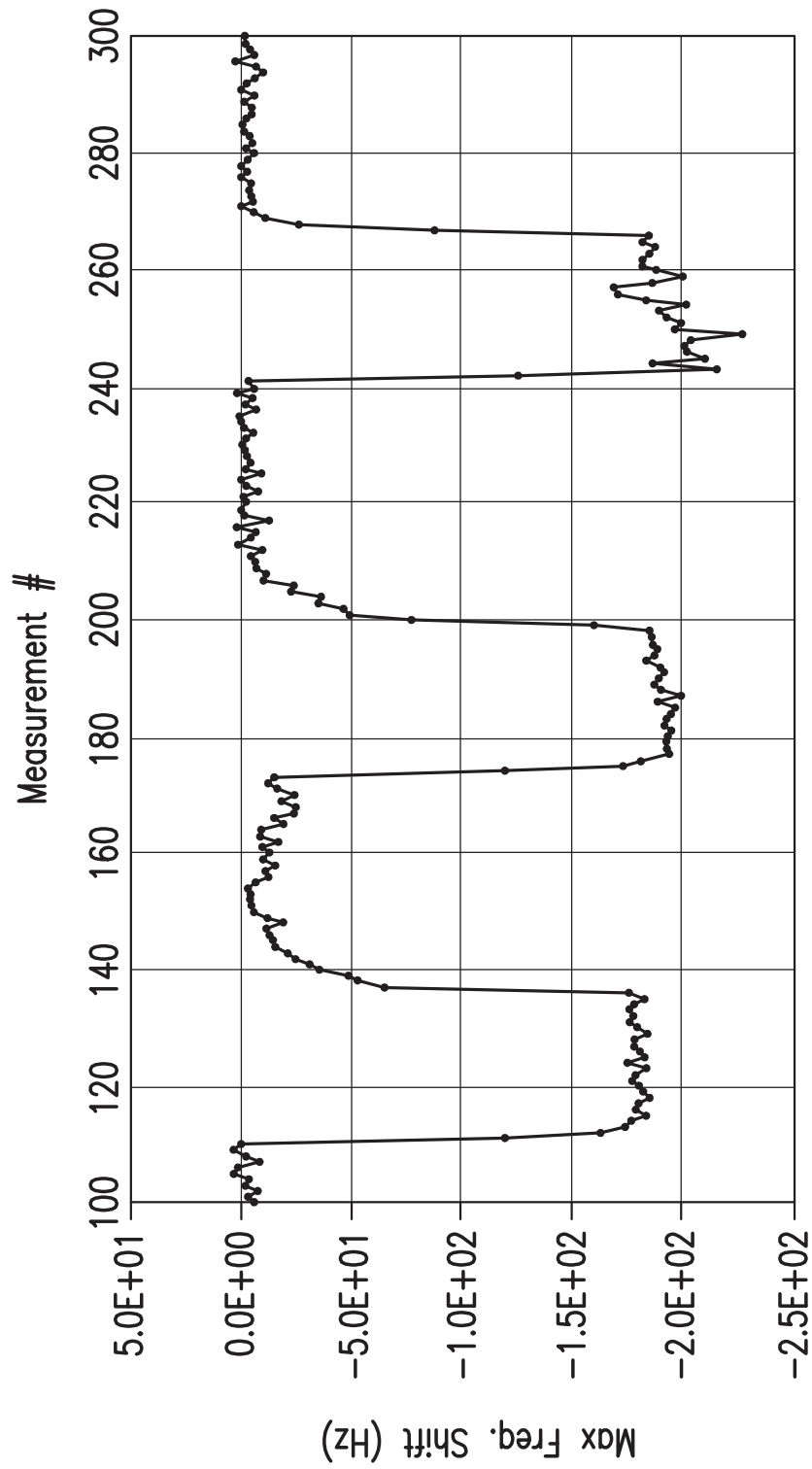
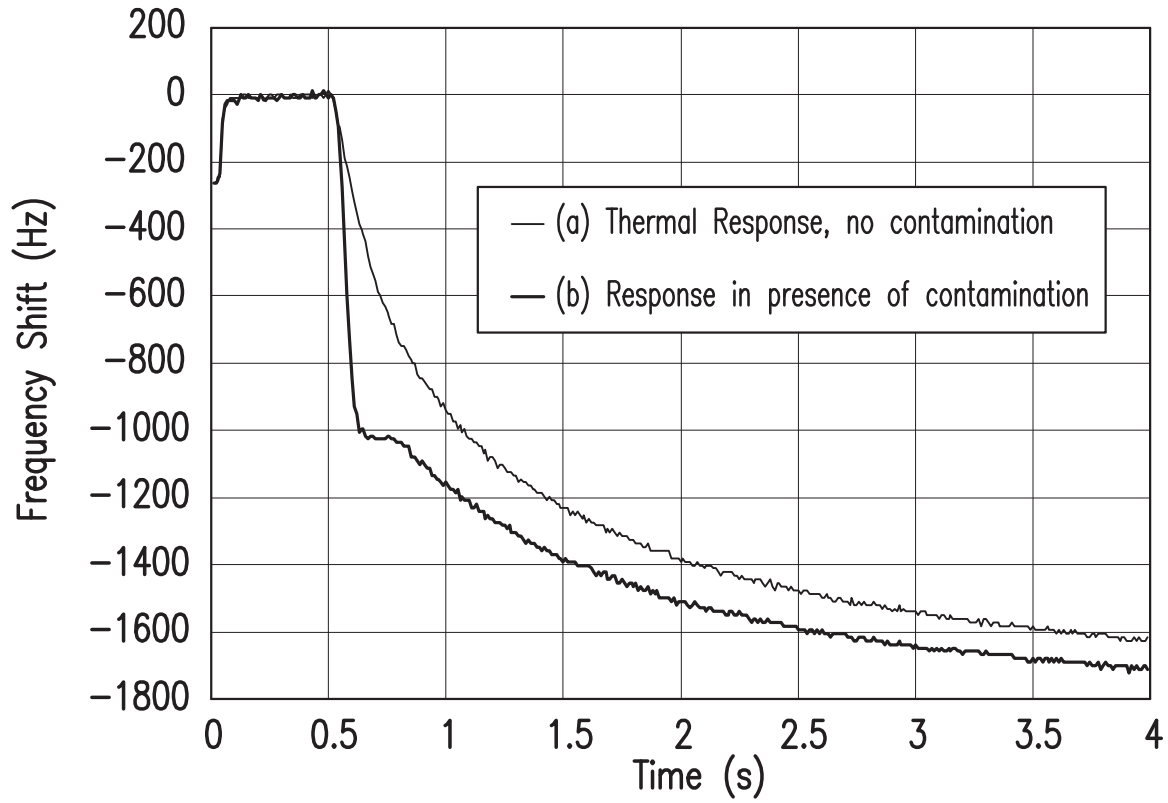
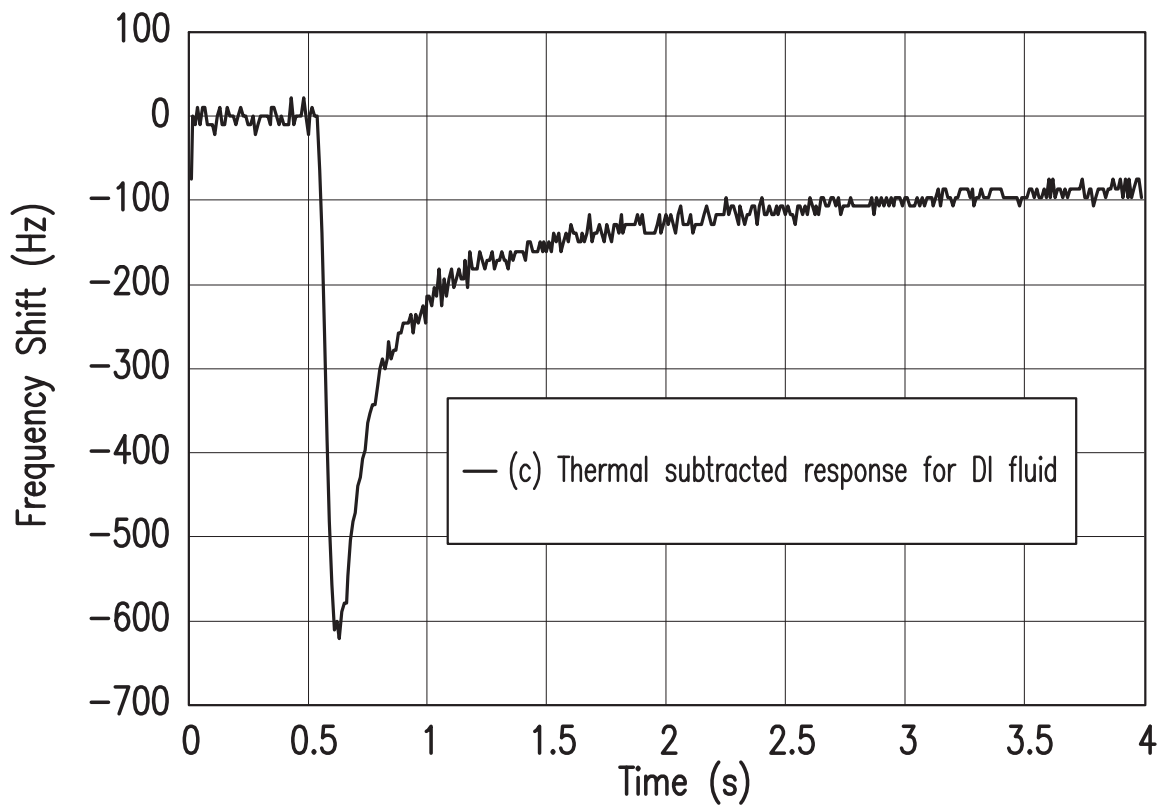
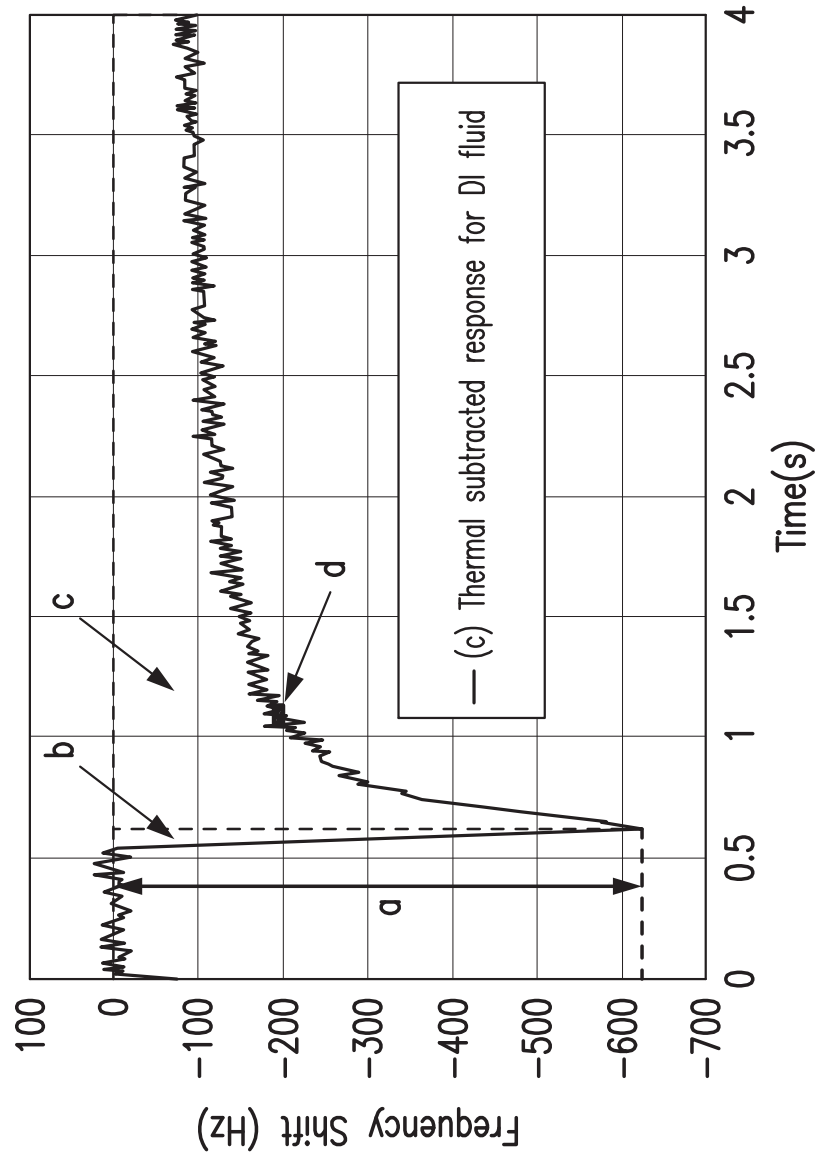


FIG. 4

**FIG. 5**

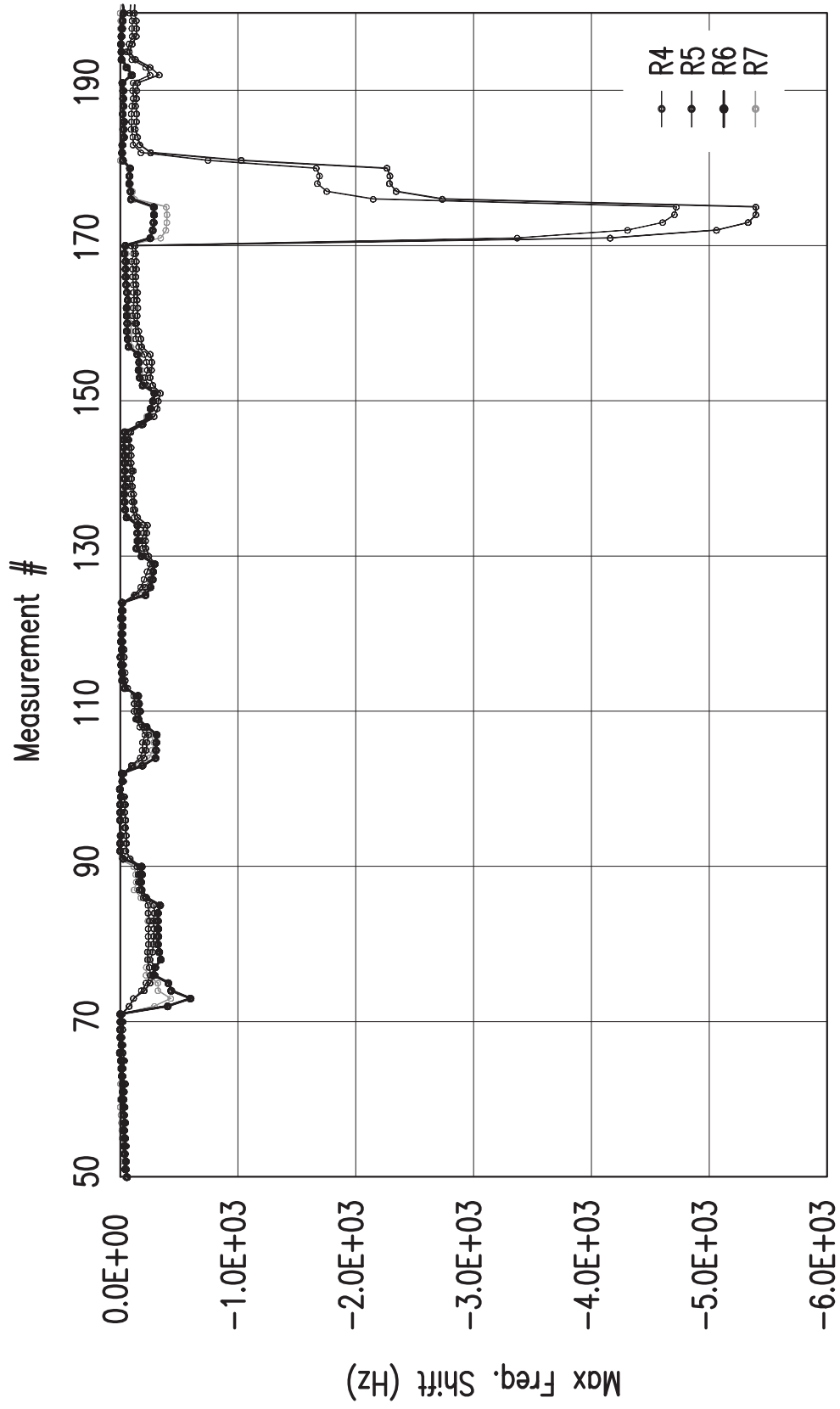
**FIG. 6****FIG. 7**

Features are calculated from the "thermal subtracted responses"



- a) Maximum frequency shift (MFS): the MFS seen during the response
- b) Sum before peak (SB): area under the curve before the MFS
- c) Sum after peak (SA): area under the curve after the MFS
- d) Segment #5 (S5): the average of the 37th thru 46th frequency measurements following the MFS

FIG. 8

**FIG. 9**

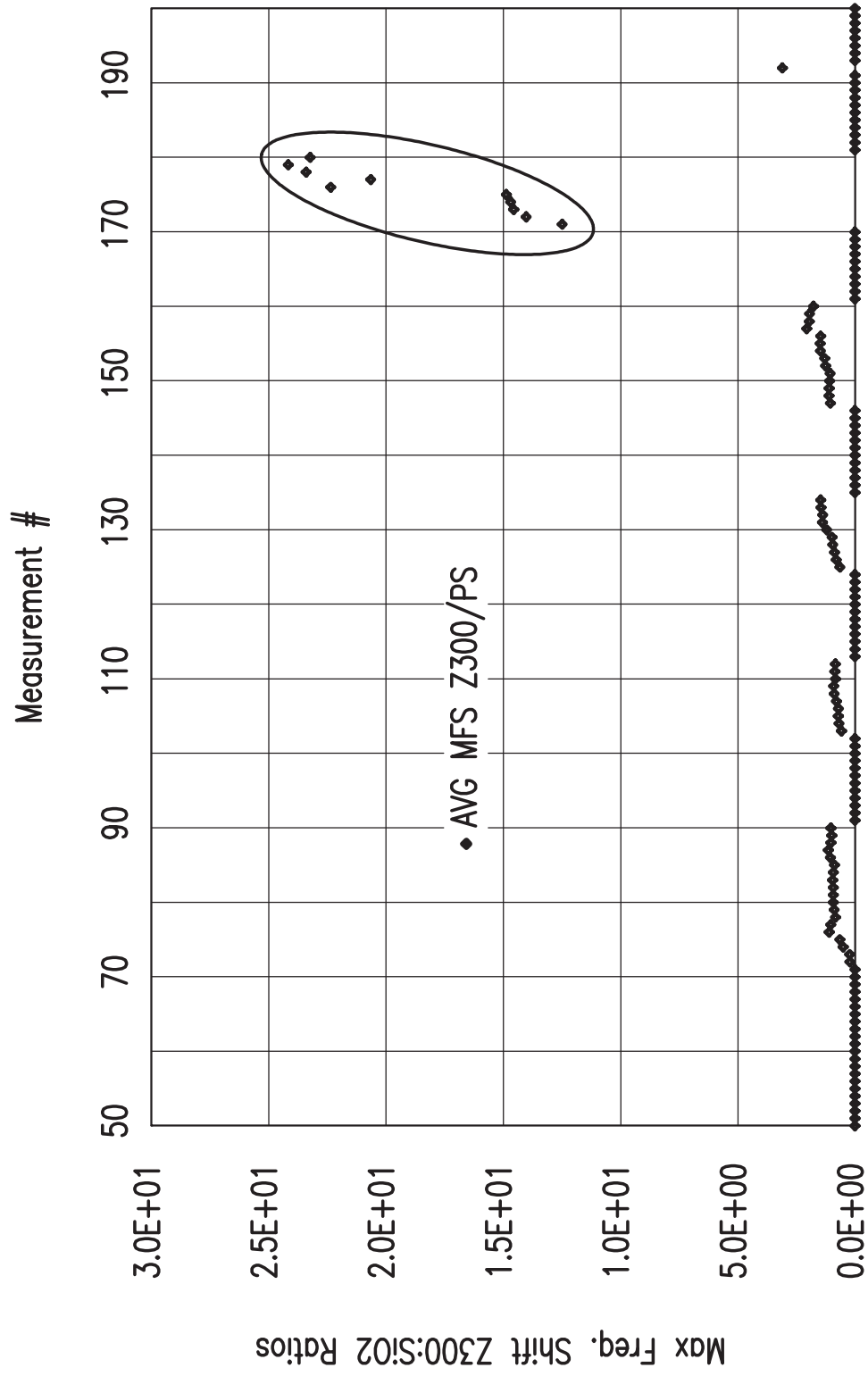


FIG. 10