JBL Professional White Paper
New 4675C-HF with 2360B

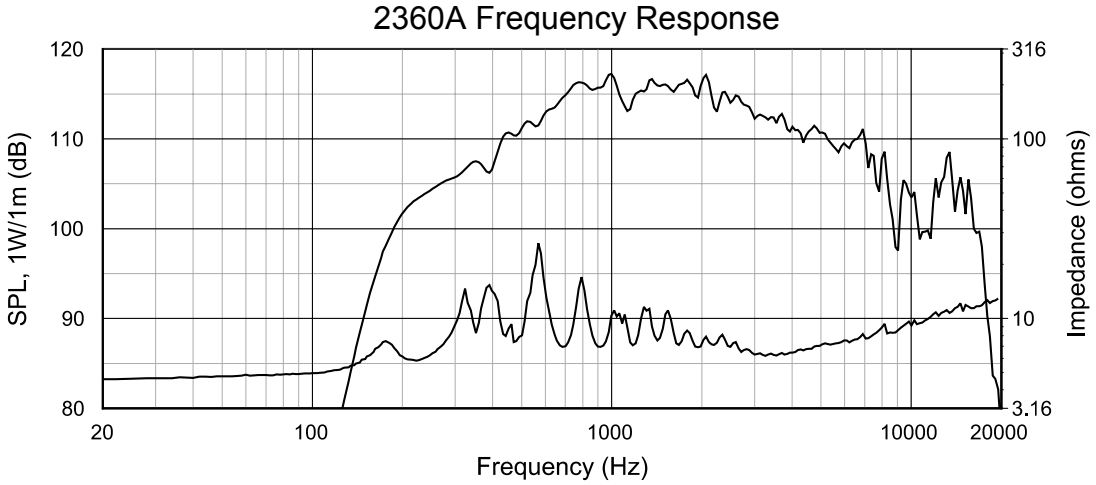
- **New High-Frequency Assembly with new Horn and Bracket**
- **Resonances Controlled by JBL Patent Pending Co-Molding Process**
- **Improved Amplitude and Time/Phase Response**
- **Precise Horizontal and Vertical Pattern Control**
- **New Bracket Design Simplifies Assembly and Adjustment**

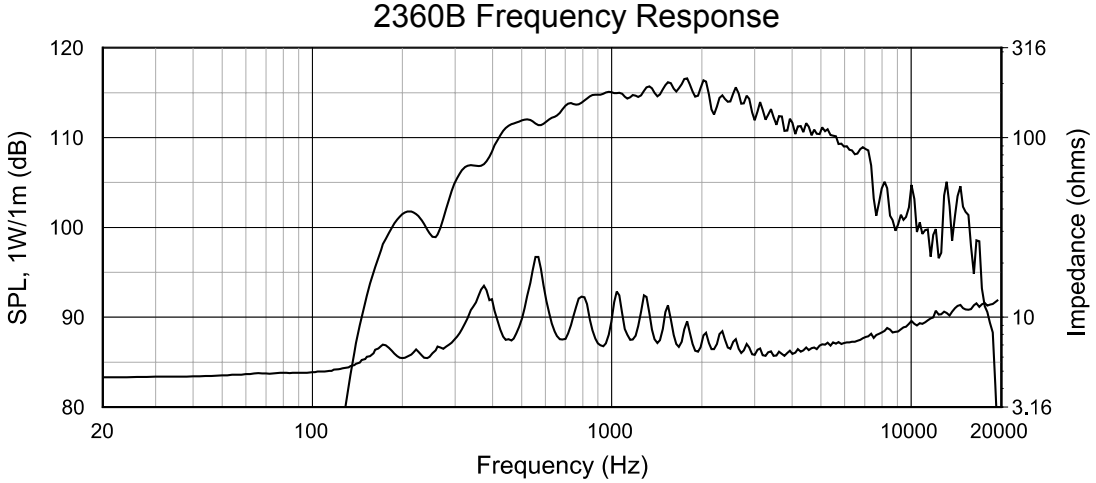
2360B Attributes

JBL continuously pursues new materials and processes for both new products, and to improve existing products. An example is the 2360B re-designed to provide better and more consistent performance by utilizing close tolerance molding technology and materials. JBL developed a patent pending co-molding process to apply SMC technology to acoustic applications. SMC (Sheet Molding Compound) is a molding process developed and used extensively by the automotive industry.

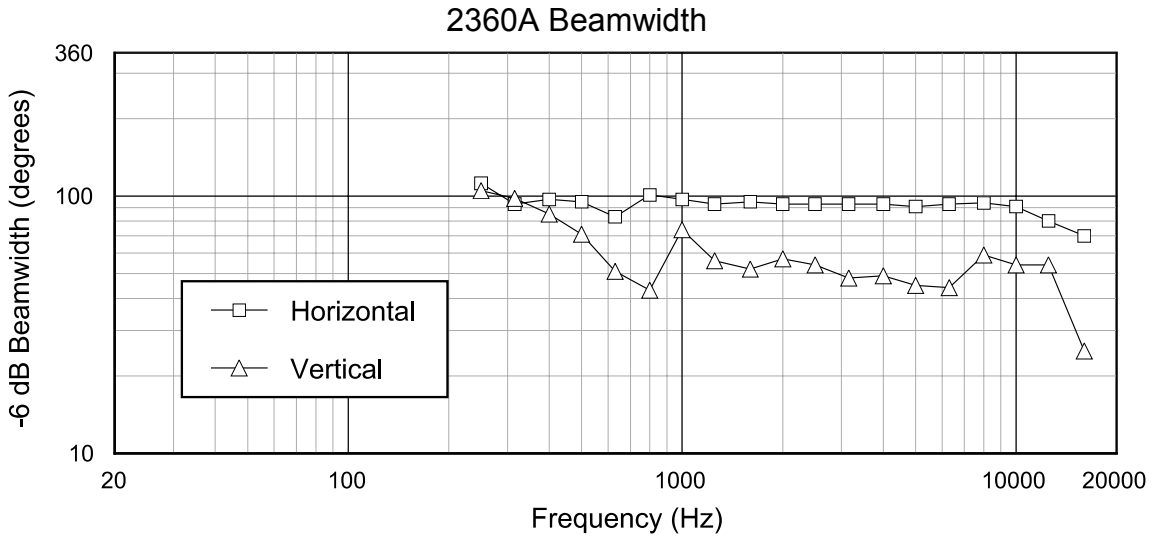
The results are not only a more “finished” appearance, but also include more precise dimensions that provide improved, more uniform, pattern control and frequency response.

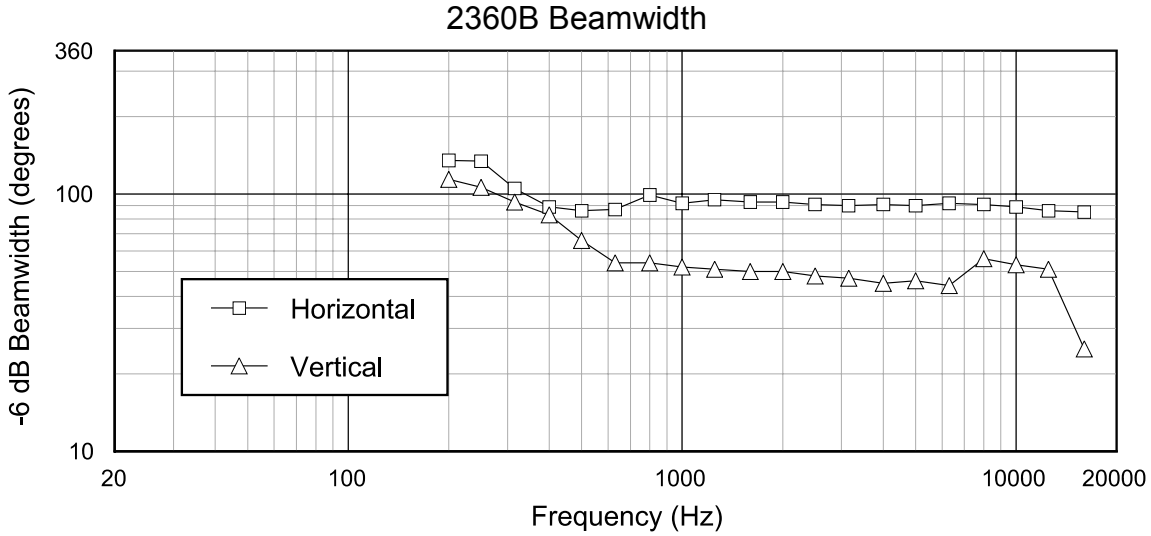
The following measurements compare the aluminum throat, fiberglass bell version of the 2360A with the new all SMC 2360B. All measurements were taken under identical conditions.



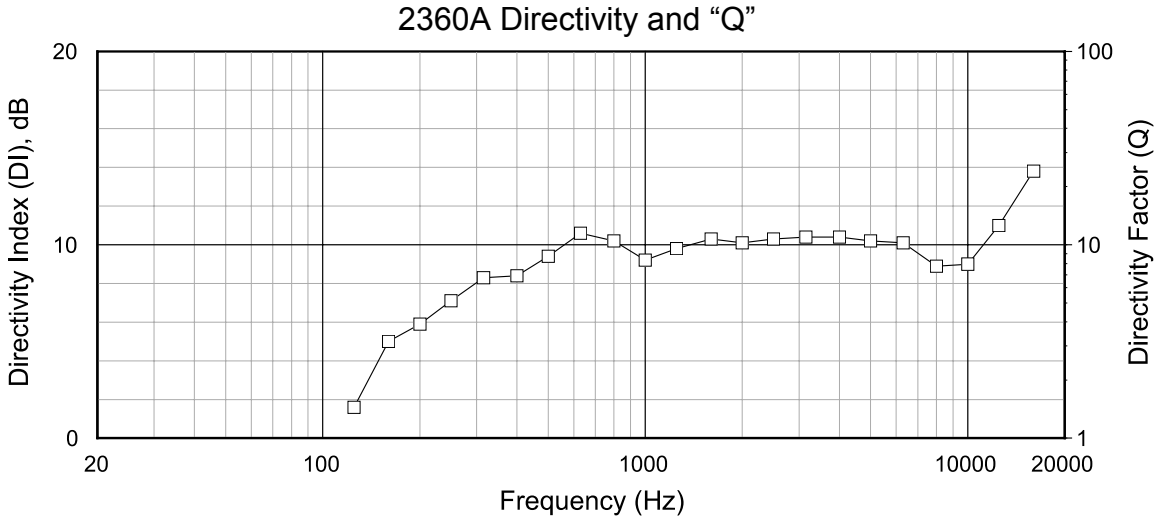


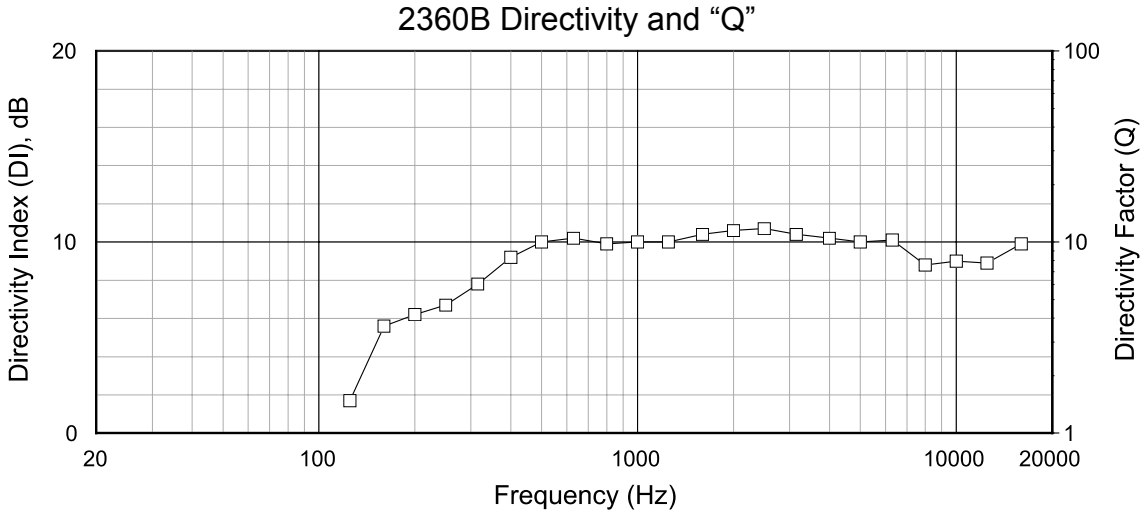
Note both the frequency response and impedance are smoother.



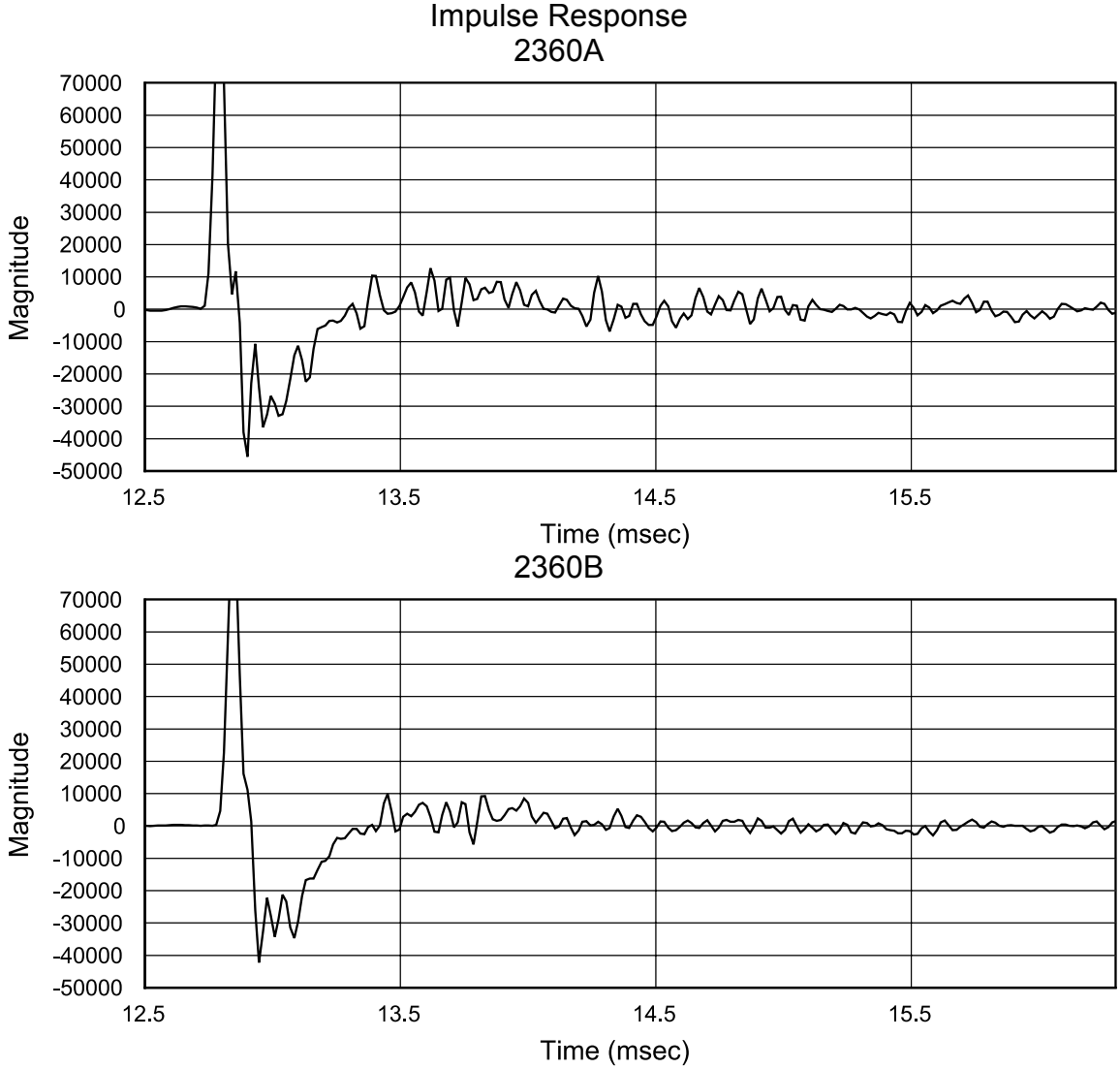


These Beamwidth curves show the new horn has much improved vertical control in the 600Hz to 1.2kHz range. The horizontal coverage maintains control to the highest frequencies.

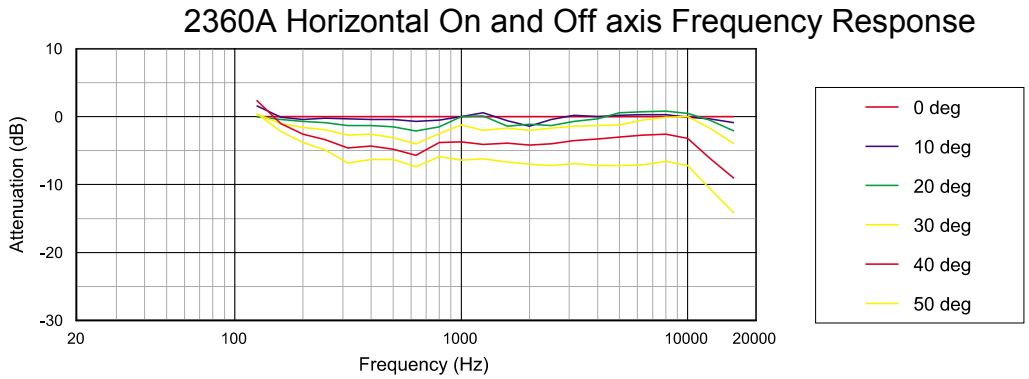


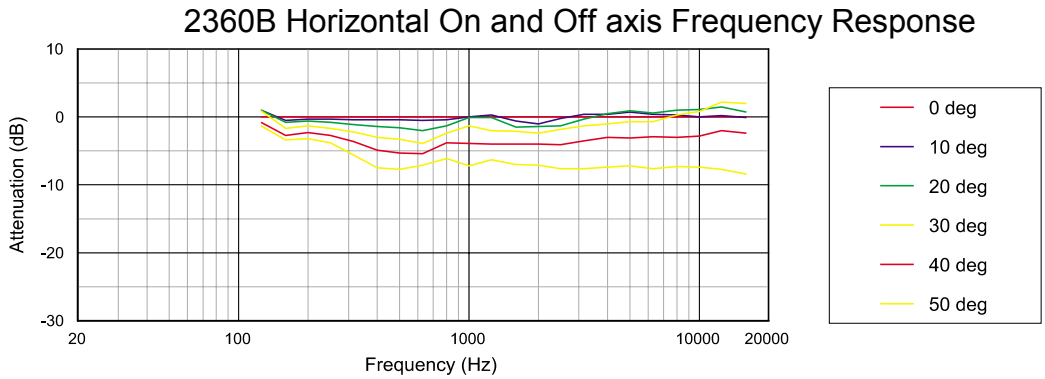


The improved coverage of the new horn is seen as more linear DI at 1 kHz and above 10 kHz.

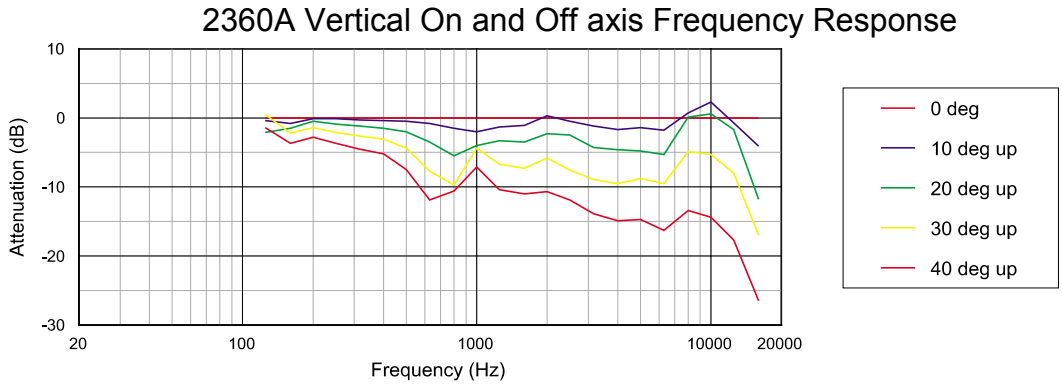


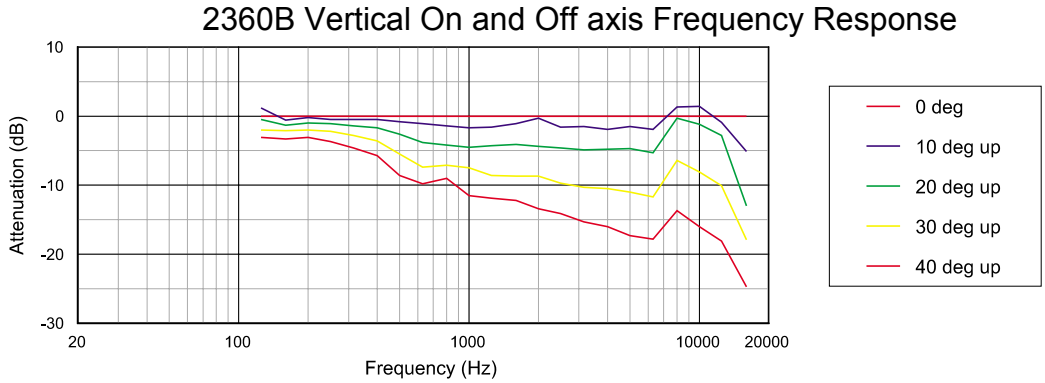
These are the impulse response measurements for the old, and new horns. The vertical scale is linear to show better damping (less ringing).





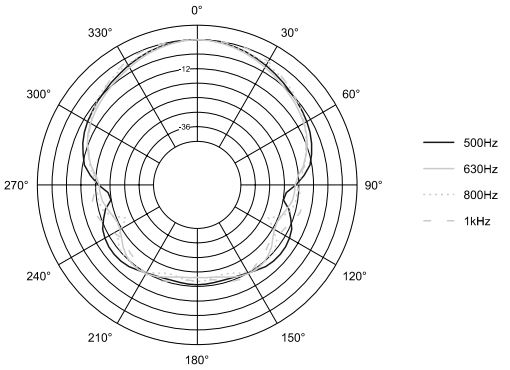
These curves show the horn's ability to provide pattern control to the highest frequencies.

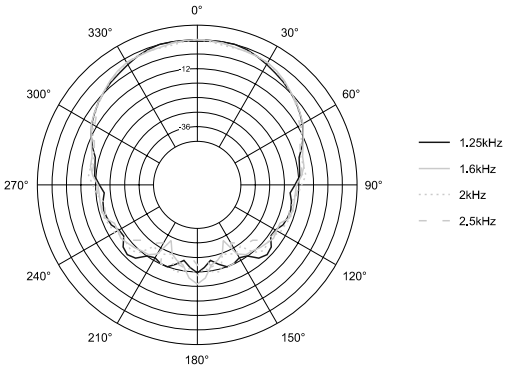


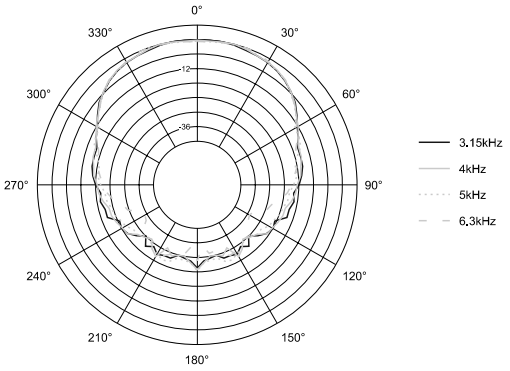


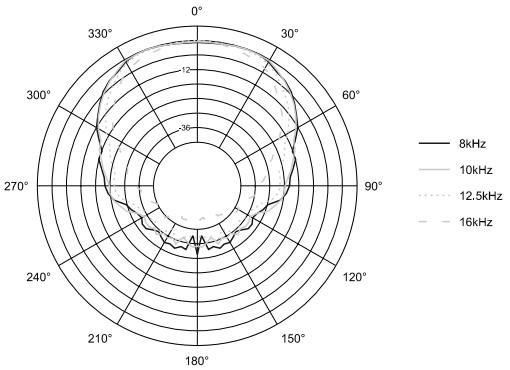
Between 500 Hz and 3 kHz shows much more uniform off axis response.

2360A Horizontal Polar Response

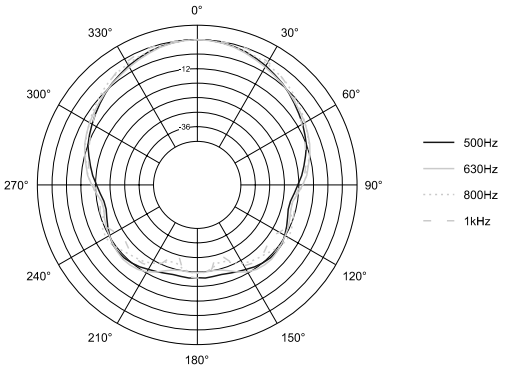


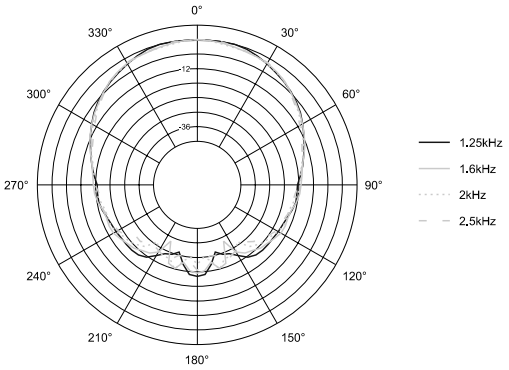


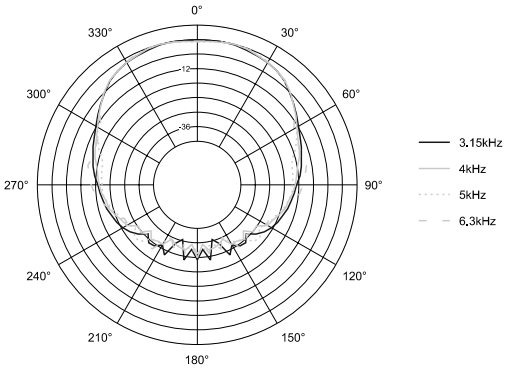


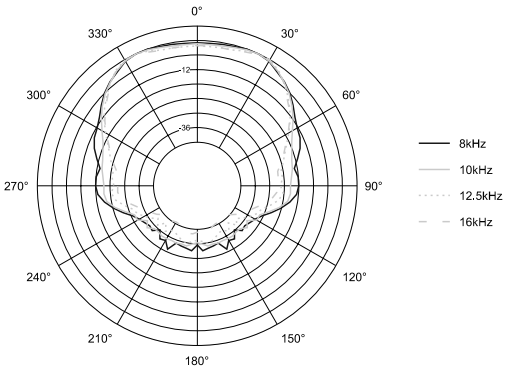


2360B Horizontal Polar Response

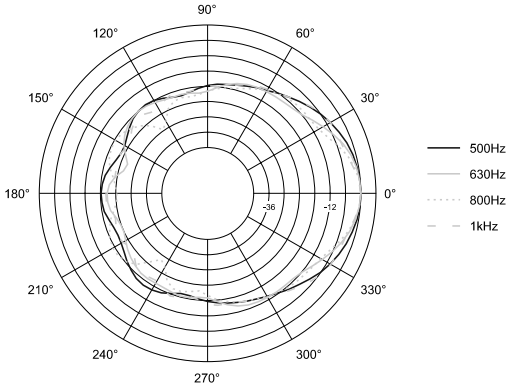


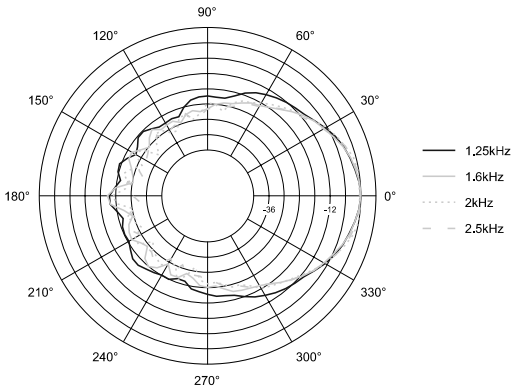


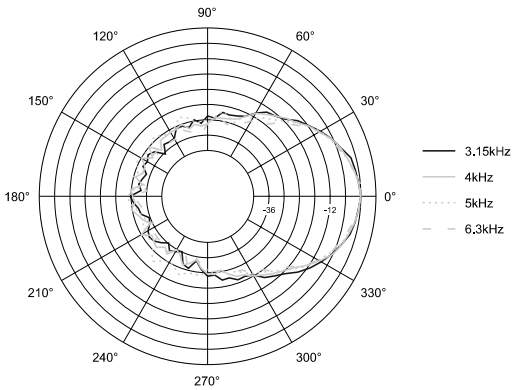


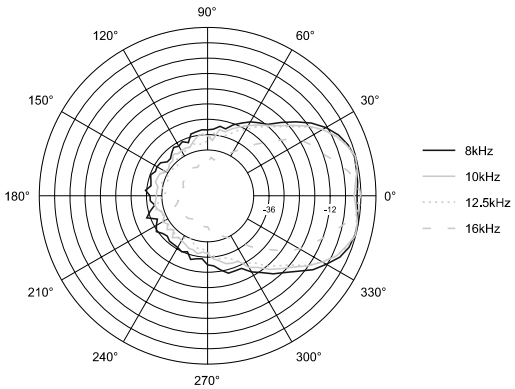


2360A Vertical Polar Response









2360B Vertical Polar Response