

Figure 1: The HH ($\sigma_{\phi\phi}$, dB, left) and VV ($\sigma_{\theta\theta}$, dB, right) polarized RCS for the dielectric water sphere of diameter 0.6 m at frequency 10 MHz.

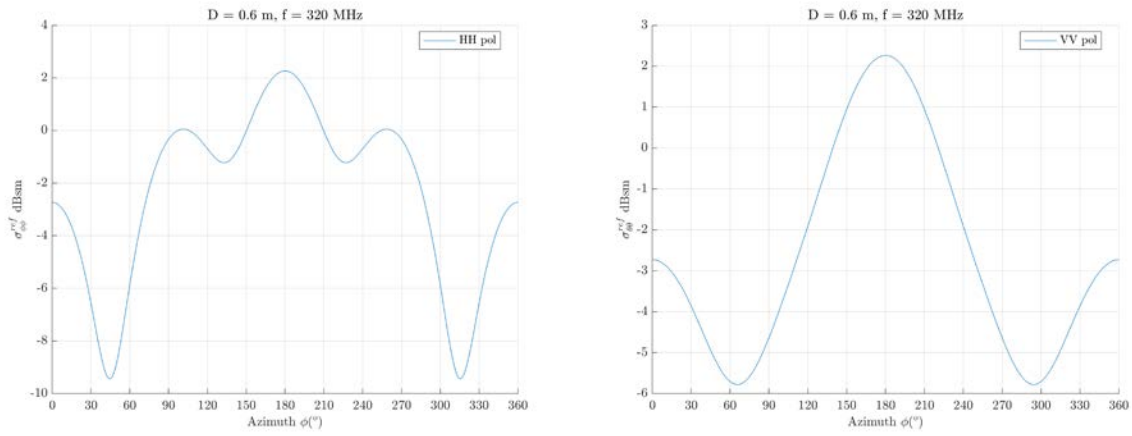


Figure 2: The HH ($\sigma_{\phi\phi}$, dB, left) and VV ($\sigma_{\theta\theta}$, dB, right) polarized RCS for the dielectric water sphere of diameter 0.6 m at frequency 320 MHz.

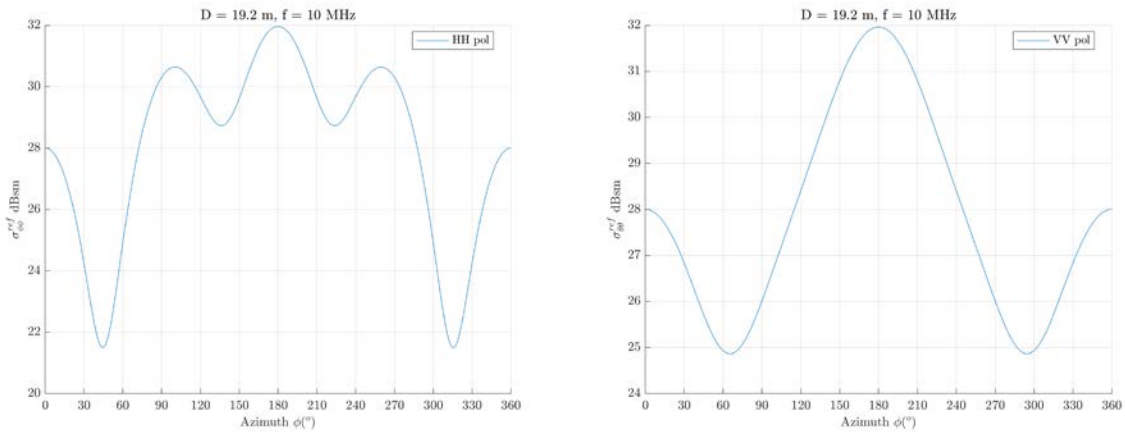


Figure 3: The HH ($\sigma_{\phi\phi}$, dB, left) and VV ($\sigma_{\theta\theta}$, dB, right) polarized RCS for the dielectric water sphere of diameter 19.2 m at frequency 10 MHz.

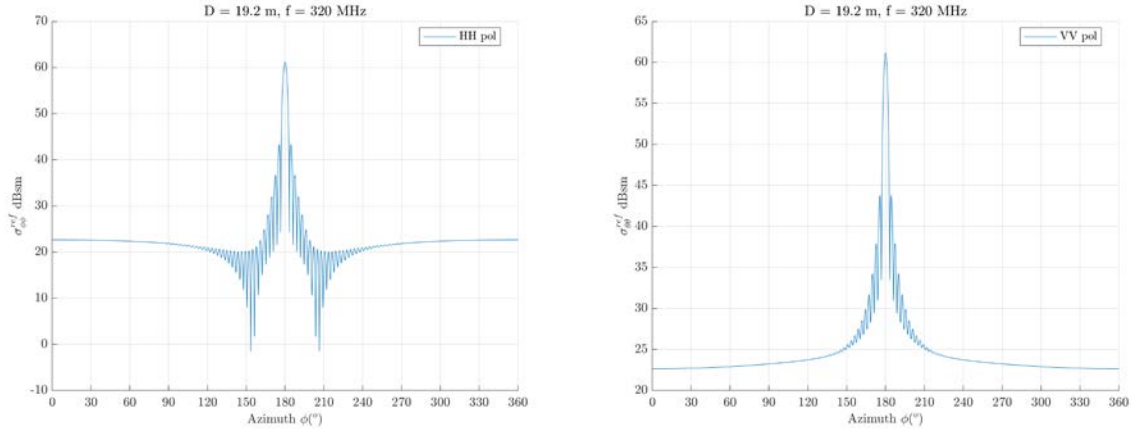


Figure 4: The HH ($\sigma_{\phi\phi}$, dB, left) and VV ($\sigma_{\theta\theta}$, dB, right) polarized RCS for the dielectric water sphere of diameter 19.2 m at frequency 320 MHz.

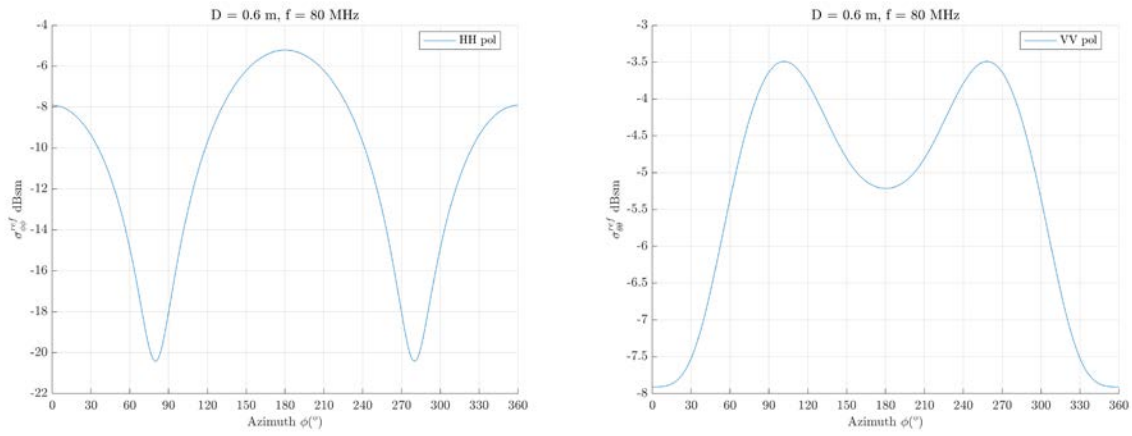


Figure 5: The HH ($\sigma_{\phi\phi}$, dB, left) and VV ($\sigma_{\theta\theta}$, dB, right) polarized RCS for the dielectric water sphere of diameter 0.6 m at frequency 80 MHz.

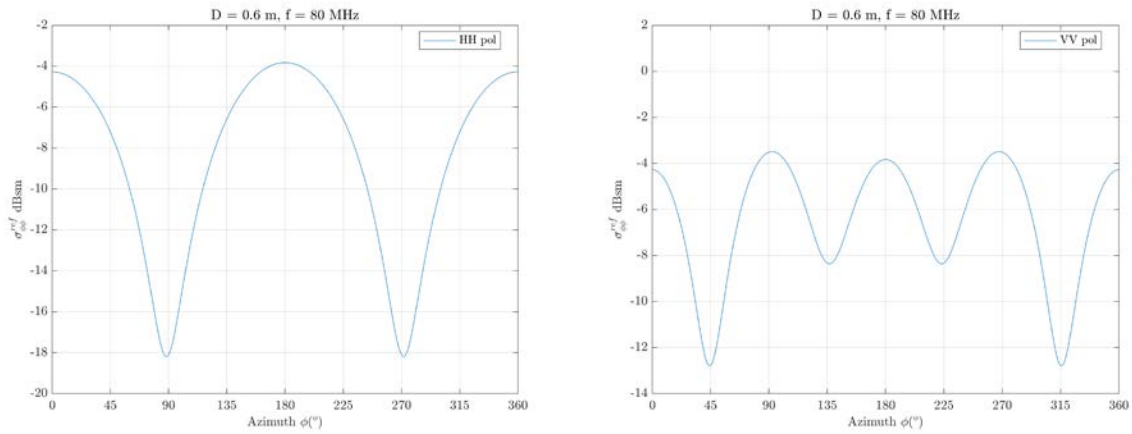


Figure 6: The HH ($\sigma_{\phi\phi}$, dB, left) and VV ($\sigma_{\theta\theta}$, dB, right) polarized RCS for the dielectric water sphere of diameter 0.6 m at frequency 80 MHz with $\epsilon = \epsilon_0(78.98 - j0.2)$.

These RCS results were calculated by using the COMPASS-EM code [1].

References

- [1] G. Kaur (2015) COMPASS-EM: Comprehensive program for analytical scattering solutions for electromagnetics. [Online]. Available:
<http://web.corral.tacc.utexas.edu/BioEM-Benchmarks/COMPASS-EM/index.html>