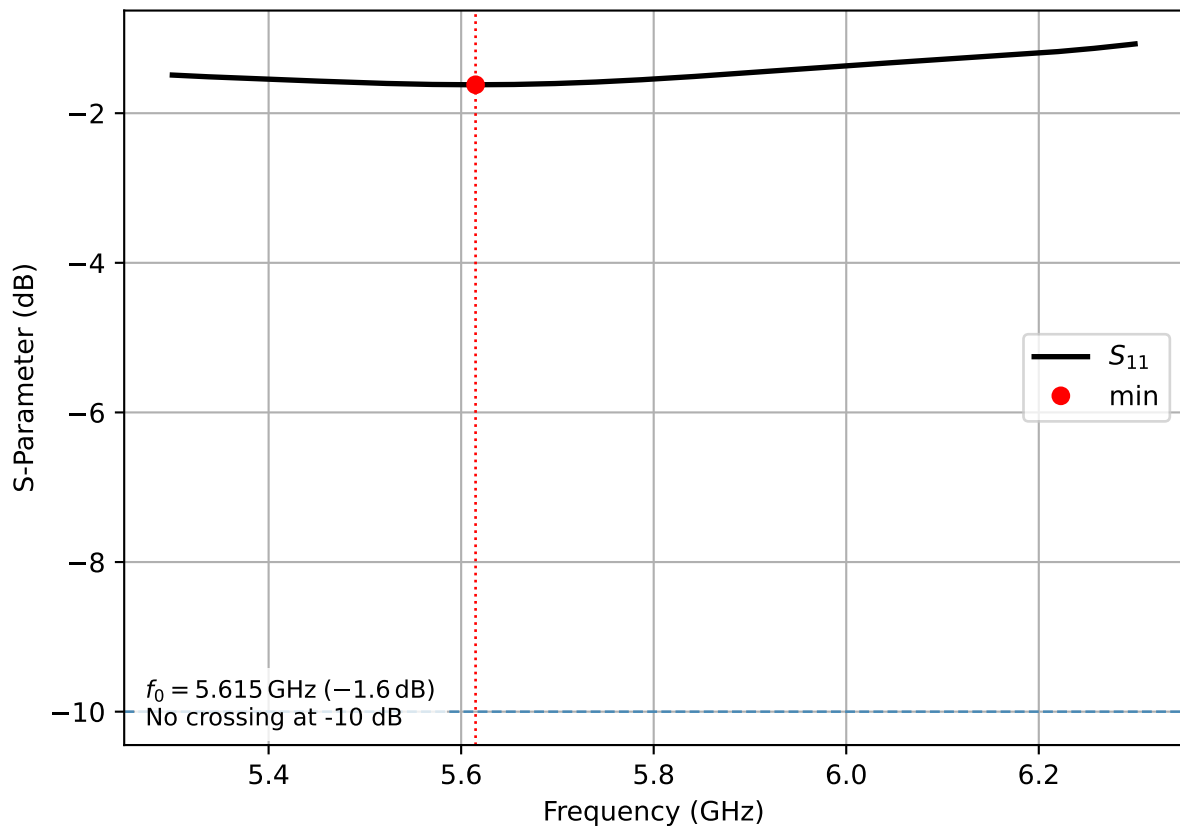


Reflection Coefficient S_{11}

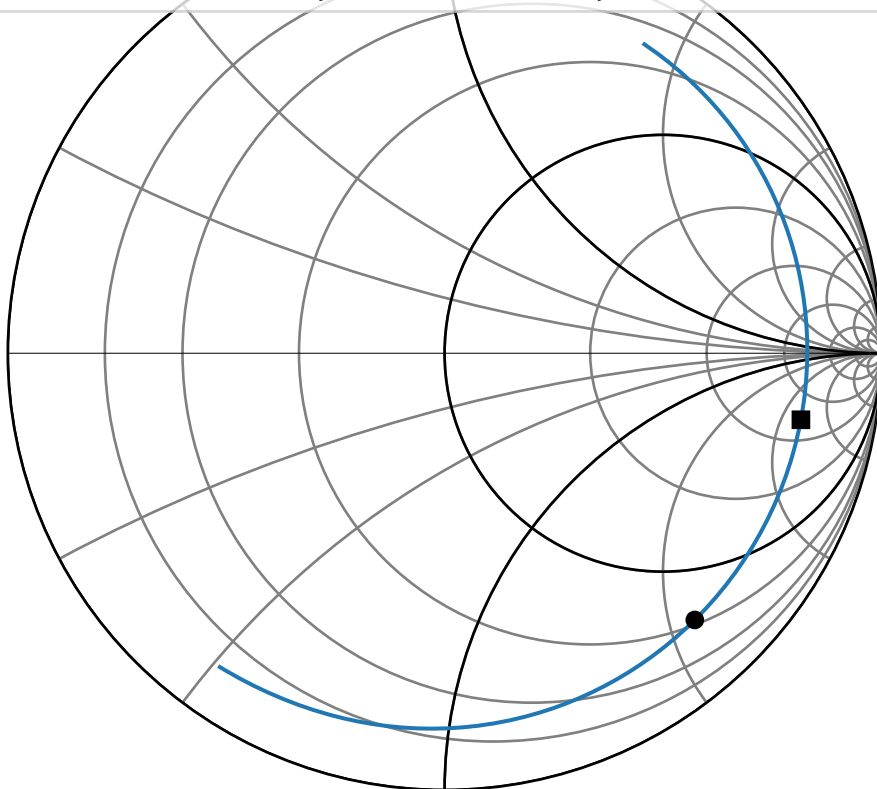


Smith Chart

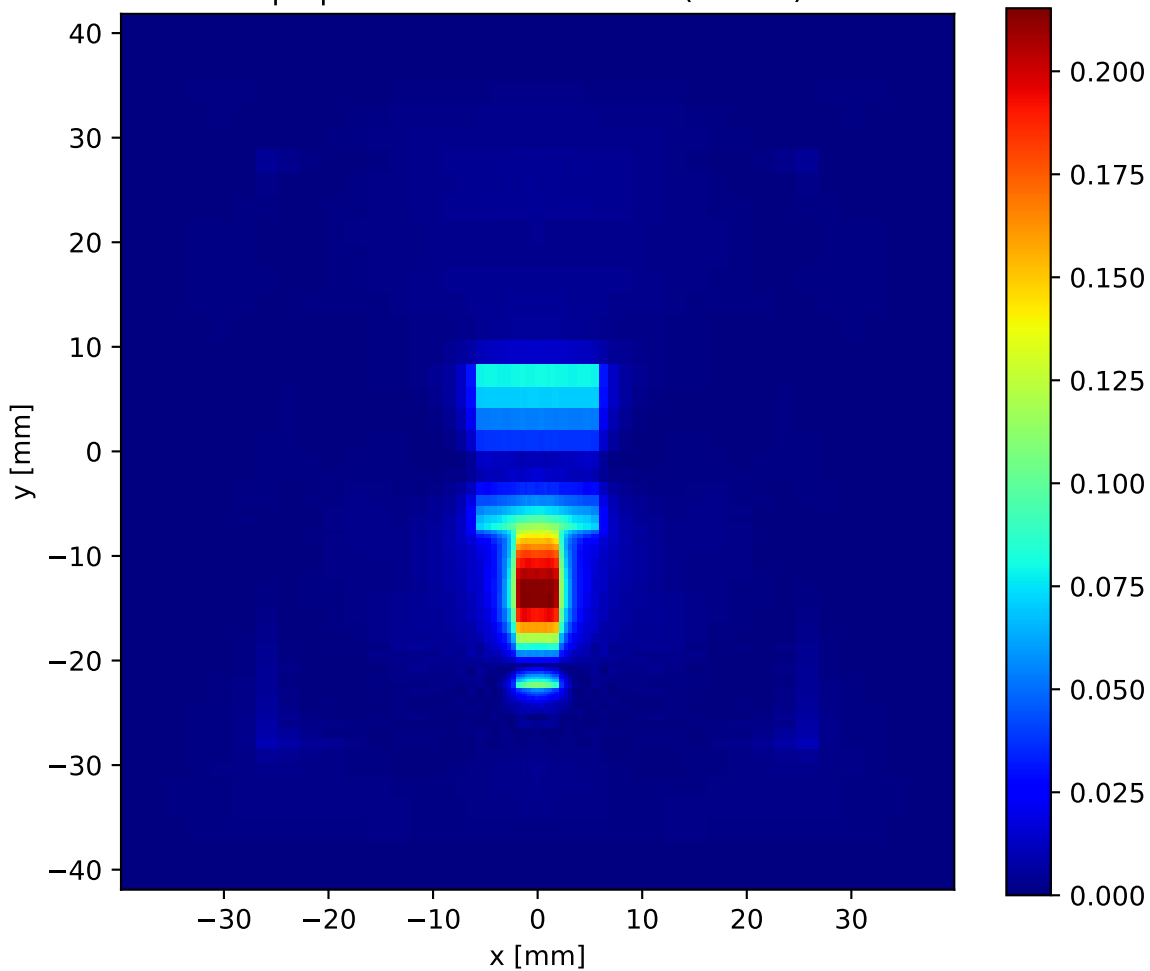
— S11 (Patch W=11.00 mm, L=14.50 mm)

● 5.80 GHz, $S_{11}=0.573-0.611j$, $R=26.93-109.95j$, $G_{\text{norm}}=0.11+0.43j$

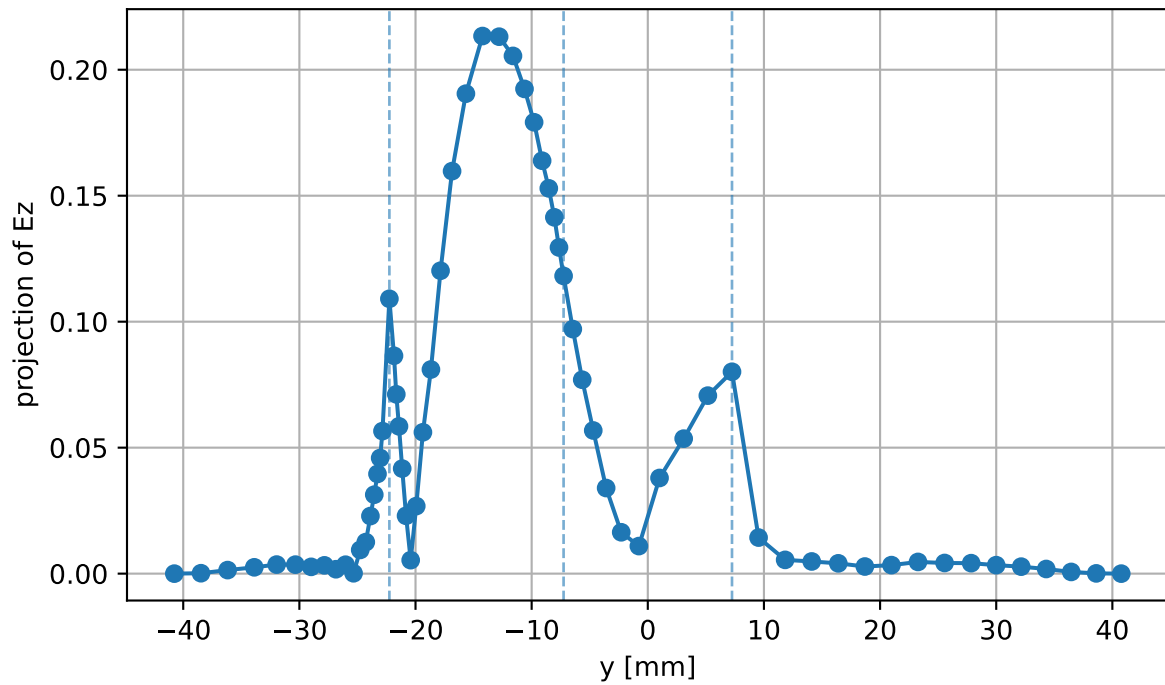
■ 5.62 GHz, $S_{11}=0.816-0.152j$, $R_2=272.38-266.54j$, $G_{2\text{norm}}=0.09+0.09j$



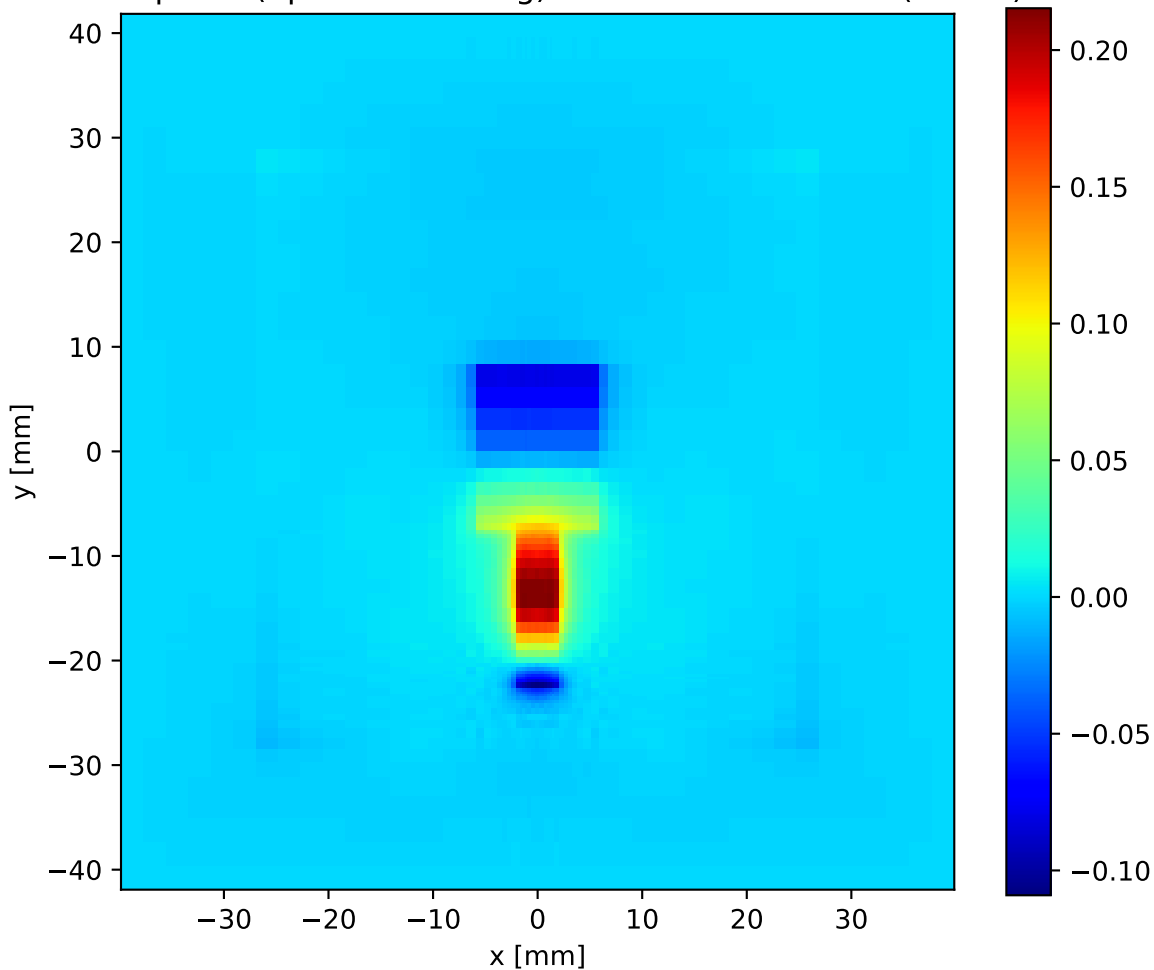
$|E_z|$ slice at $z = 0.76$ mm (idx 15)



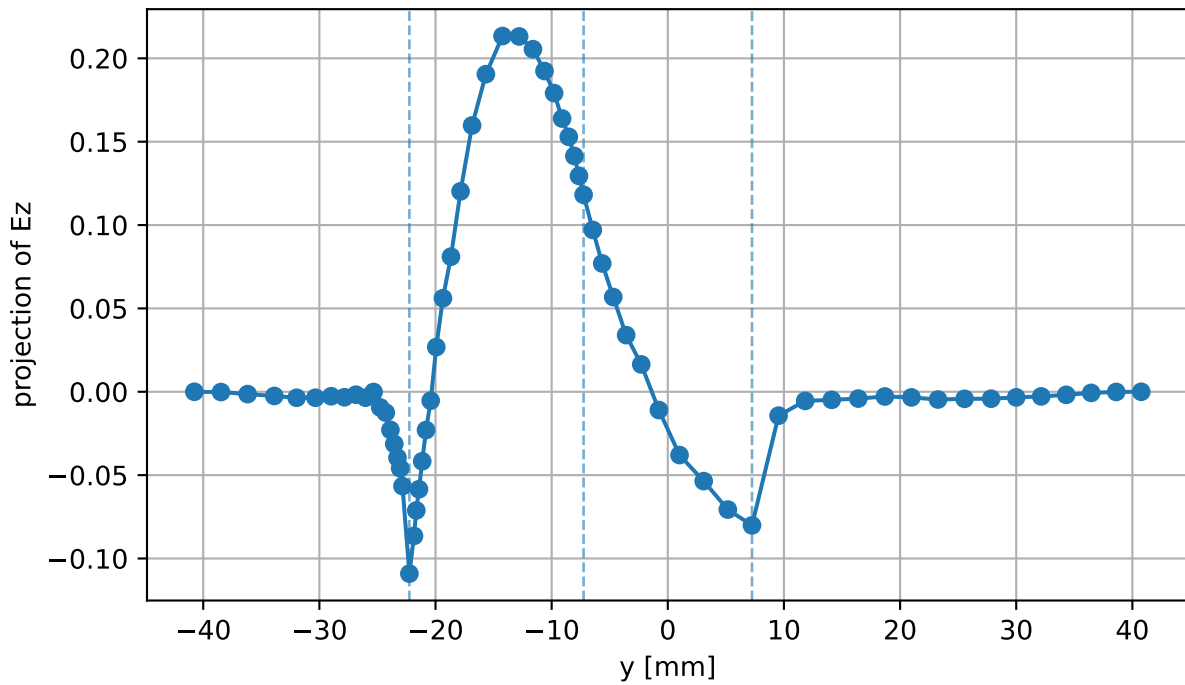
$|E_z|$ line cut along Y at $x=0.00$ mm, $z=0.76$ mm
(idx $x=31$, $z=15$)



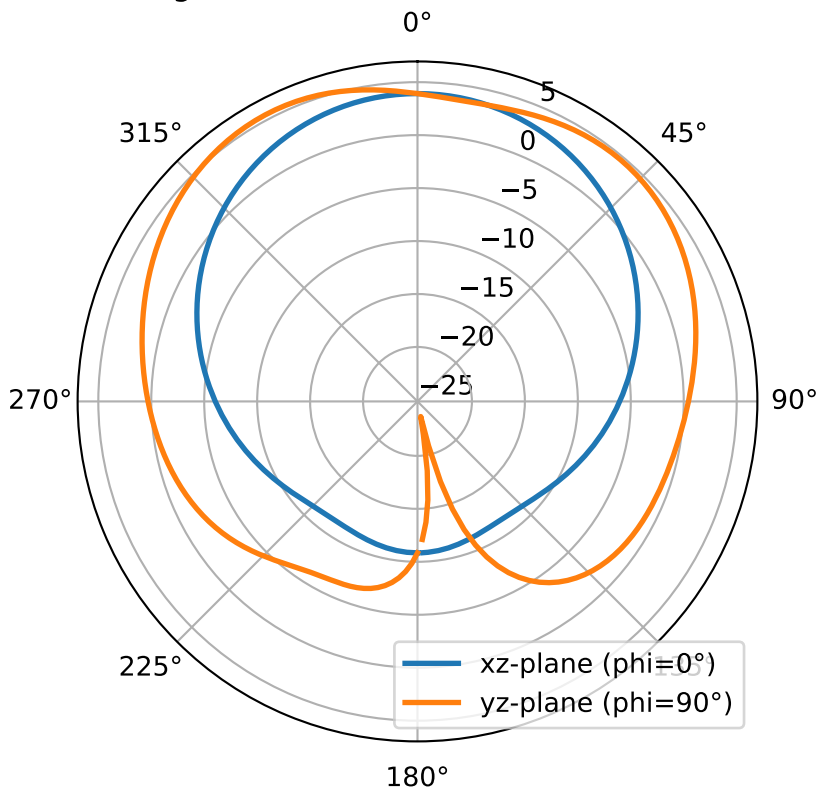
Ez snapshot (dphi=180.00deg) slice at z = 0.76 mm (idx 15)



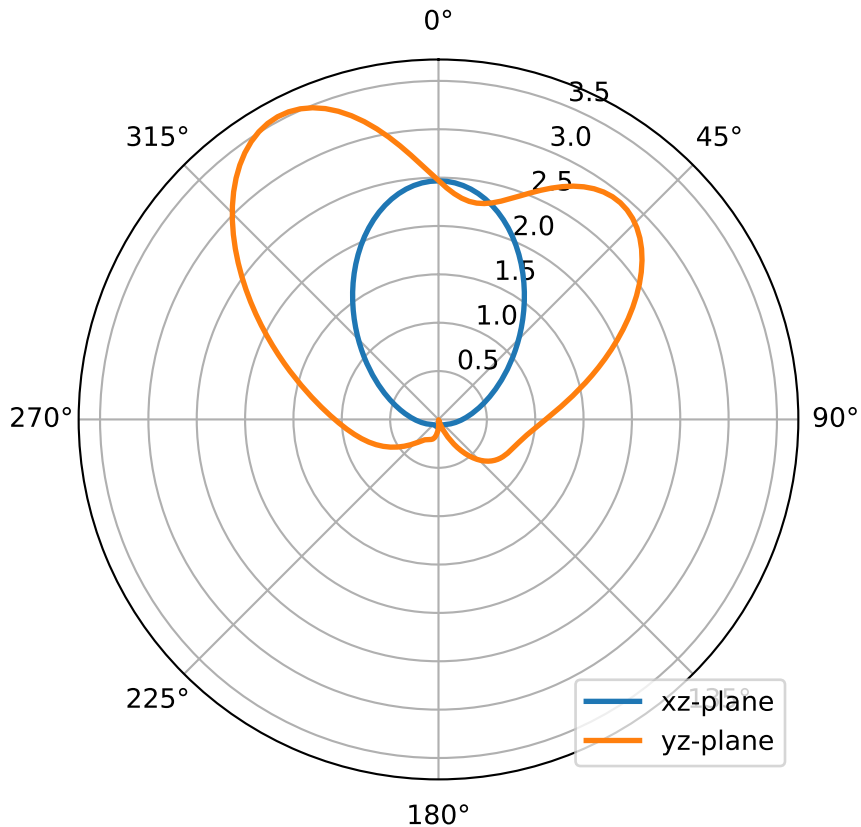
Ez snapshot (dphi=180.00deg) line cut along Y at x=0.00 mm, z=0.76 mm
(idx x=31, z=15)



$f = 5.615 \text{ GHz}$ — Directivity (dB)
 $D_{\text{max}} (\text{integrated}) \approx 5.50 \text{ dB}$, $\text{nf2ff } D_{\text{max}} = 5.50 \text{ dB}$



Frequency: 5.615 GHz — Directivity (linear). Dmax: 3.544



Frequency: 5.615 GHz
xz-plane: HPBW=87.2°
yz-plane: HPBW=140.2°

