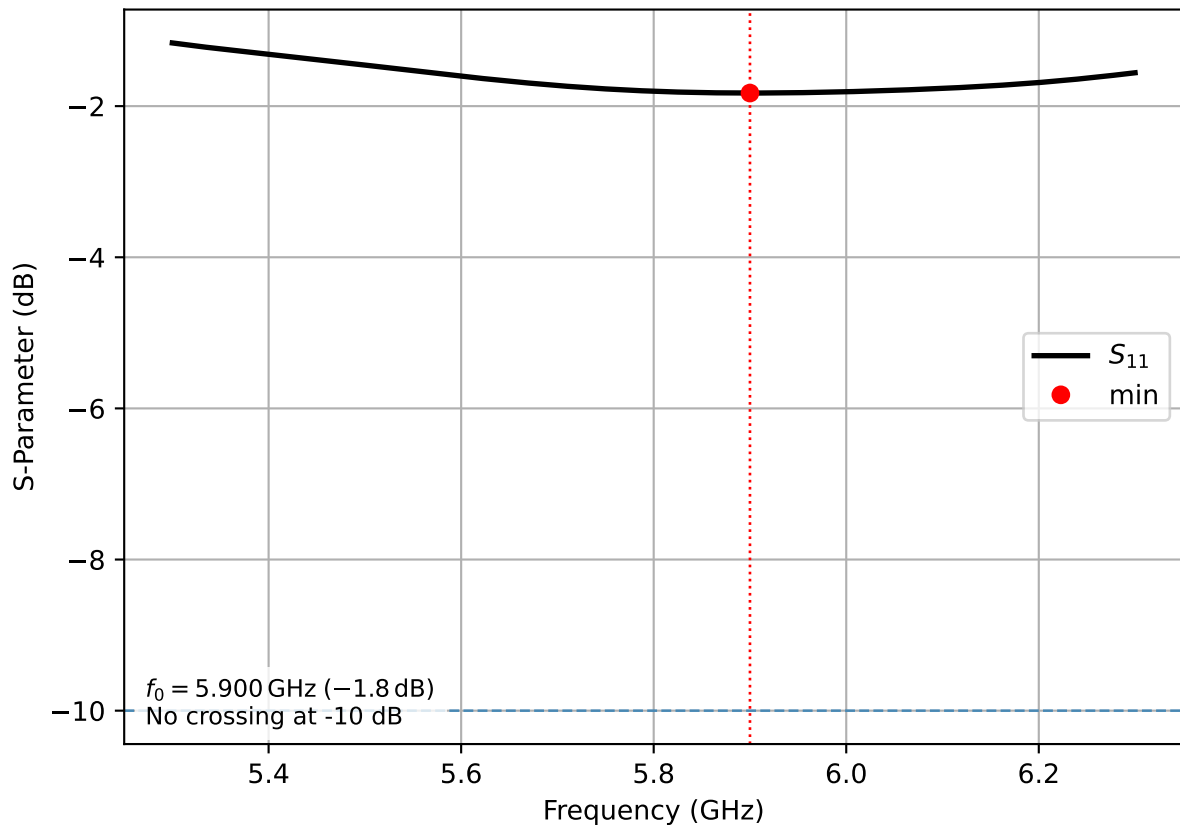


Reflection Coefficient S_{11}

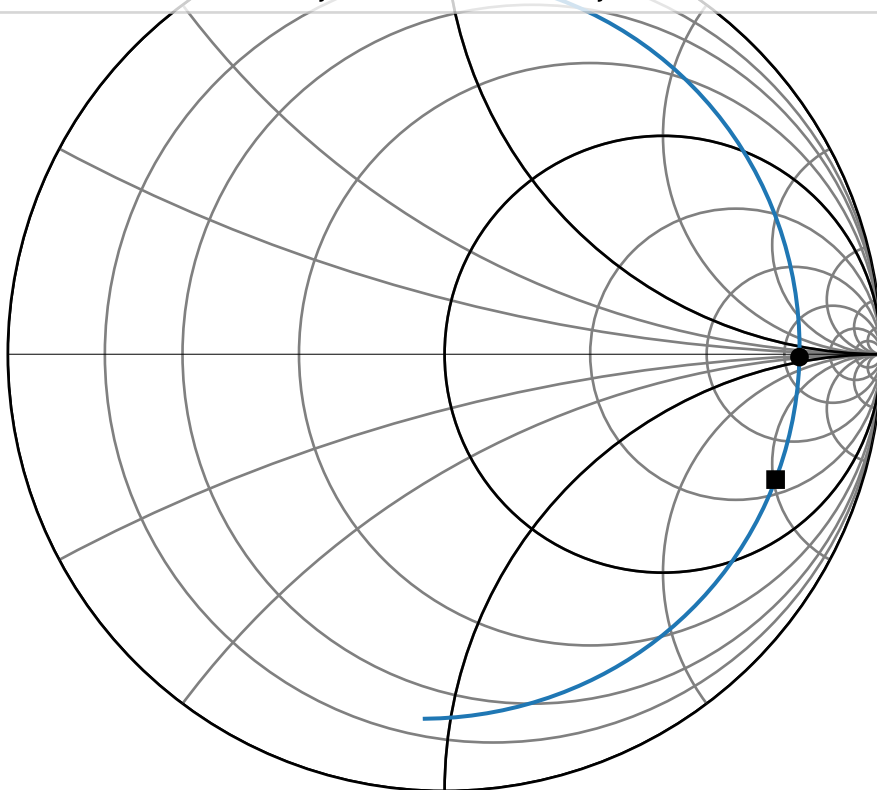


Smith Chart

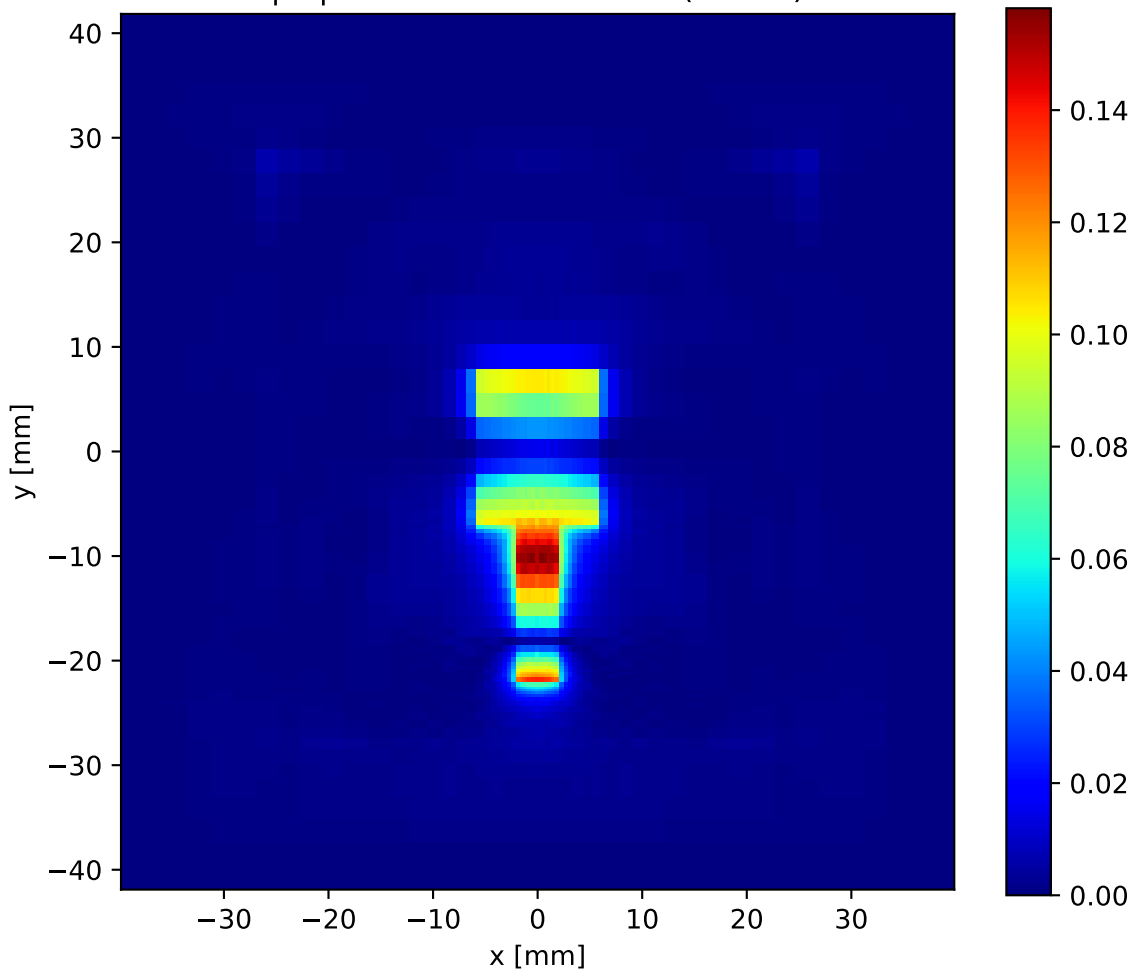
— S11 (Patch W=11.00 mm, L=13.50 mm)

● 5.80 GHz, $S_{11}=0.812-0.007j$, $R=482.67-18.69j$, $G_{\text{norm}}=0.10+0.00j$

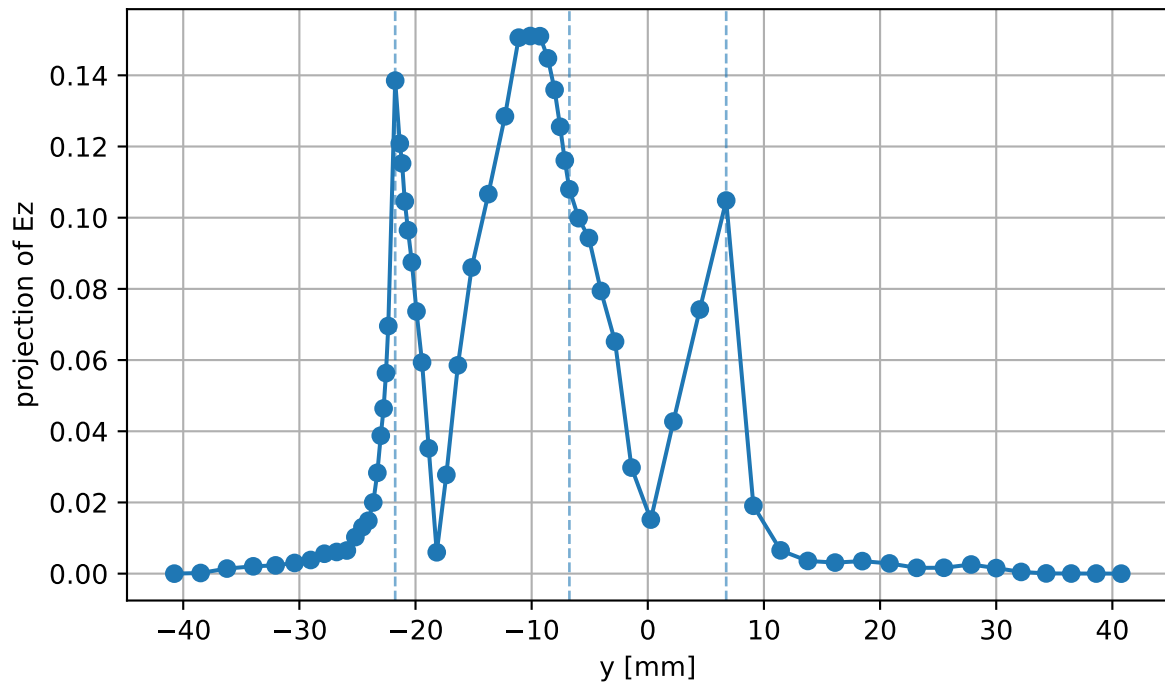
■ 5.90 GHz, $S_{11}=0.758-0.287j$, $R_2=121.72-203.49j$, $G_{2\text{norm}}=0.11+0.18j$



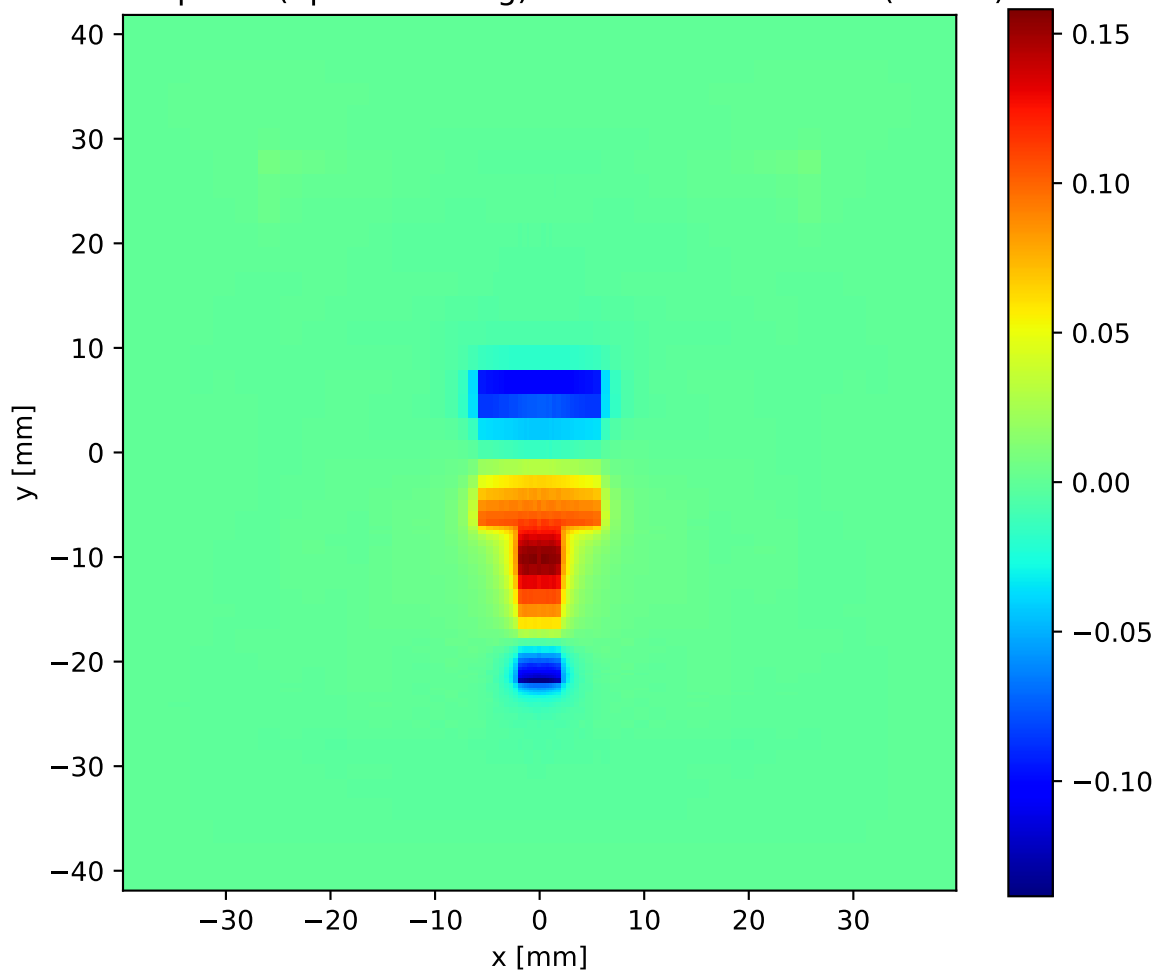
$|E_z|$ slice at $z = 0.76$ mm (idx 15)



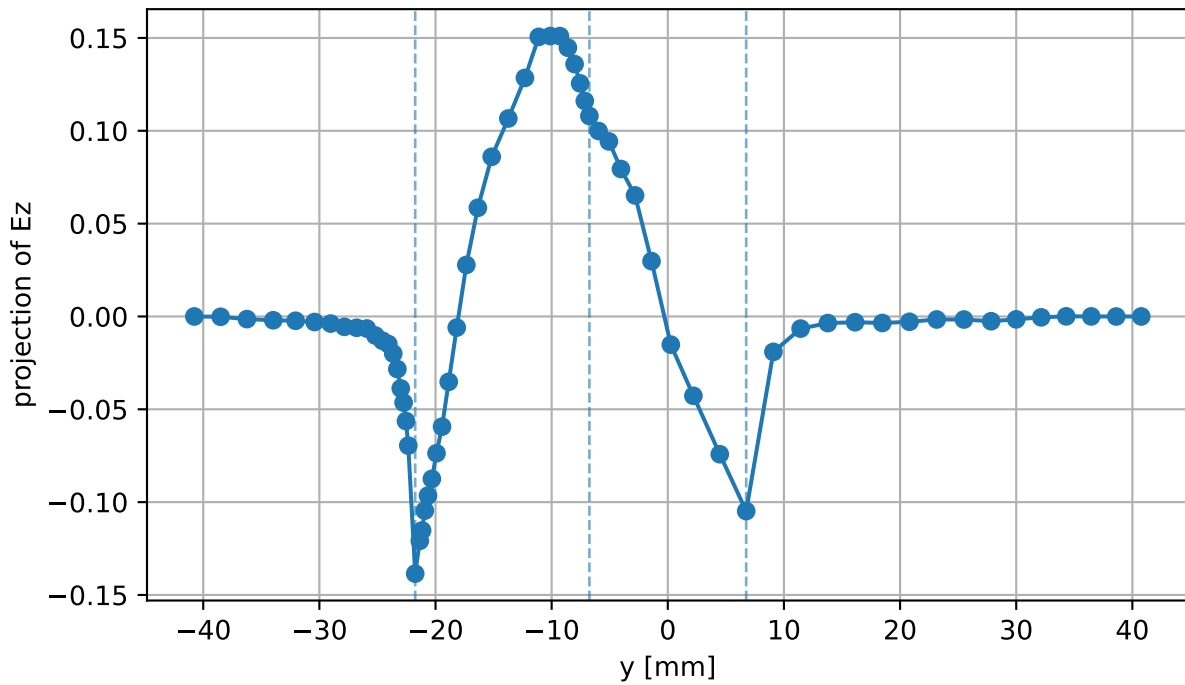
$|E_z|$ line cut along Y at $x=0.00$ mm, $z=0.76$ mm
(idx $x=31$, $z=15$)



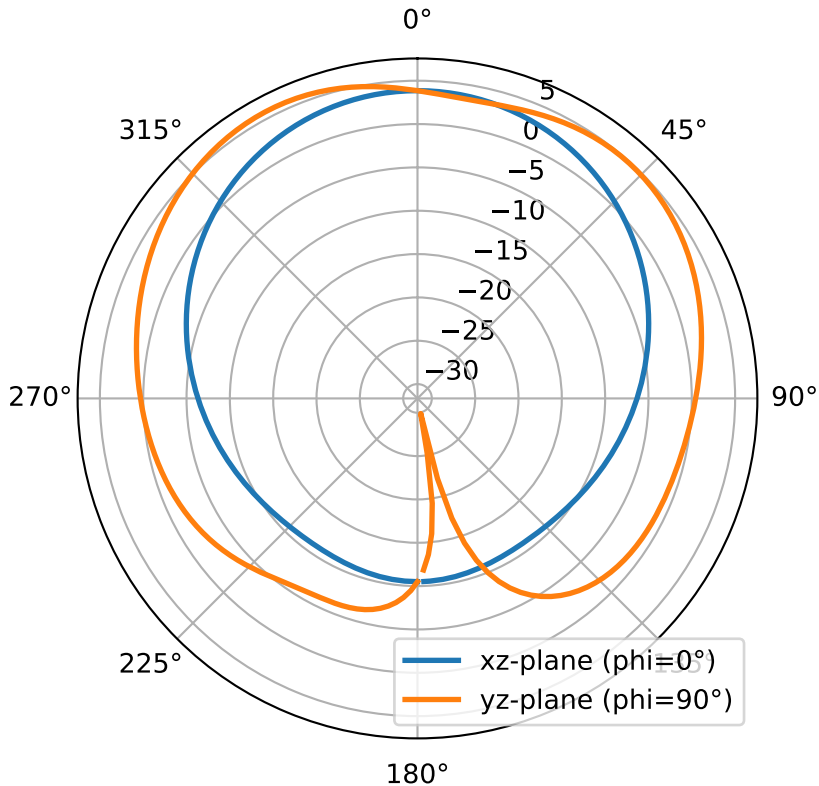
Ez snapshot (dphi=0.00deg) slice at z = 0.76 mm (idx 15)



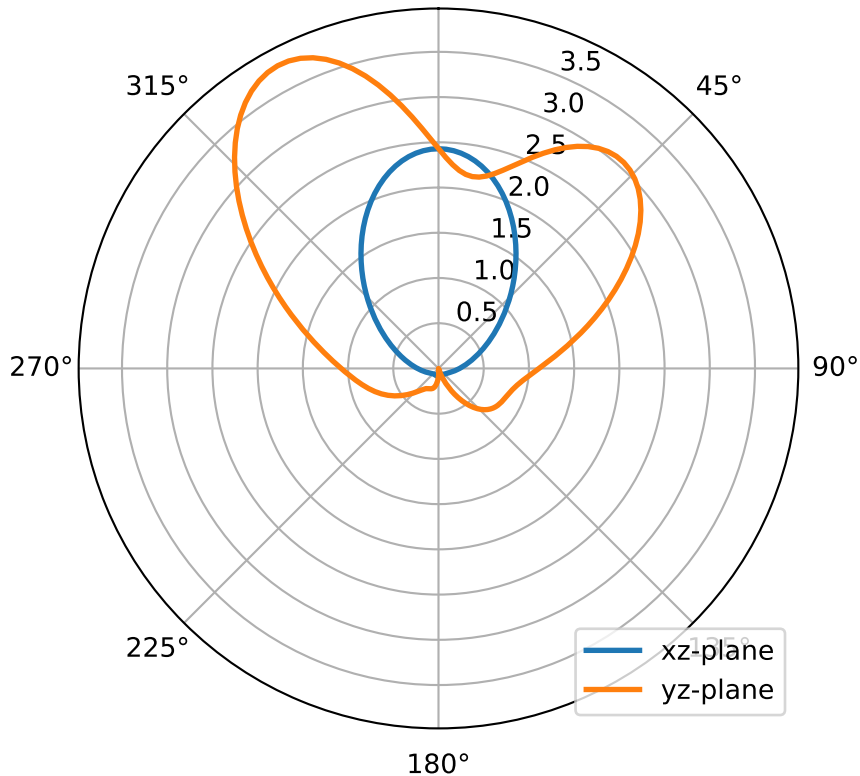
Ez snapshot (dphi=0.00deg) line cut along Y at x=0.00 mm, z=0.76 mm
(idx x=31, z=15)



$f = 5.900 \text{ GHz}$ — Directivity (dB)
 $D_{\text{max}} (\text{integrated}) \approx 5.79 \text{ dB}$, $\text{nf2ff } D_{\text{max}} = 5.79 \text{ dB}$



Frequency: 5.900 GHz — Directivity (linear). Dmax: 3.790
0°



Frequency: 5.900 GHz
xz-plane: HPBW=86.2°
yz-plane: HPBW=138.5°

