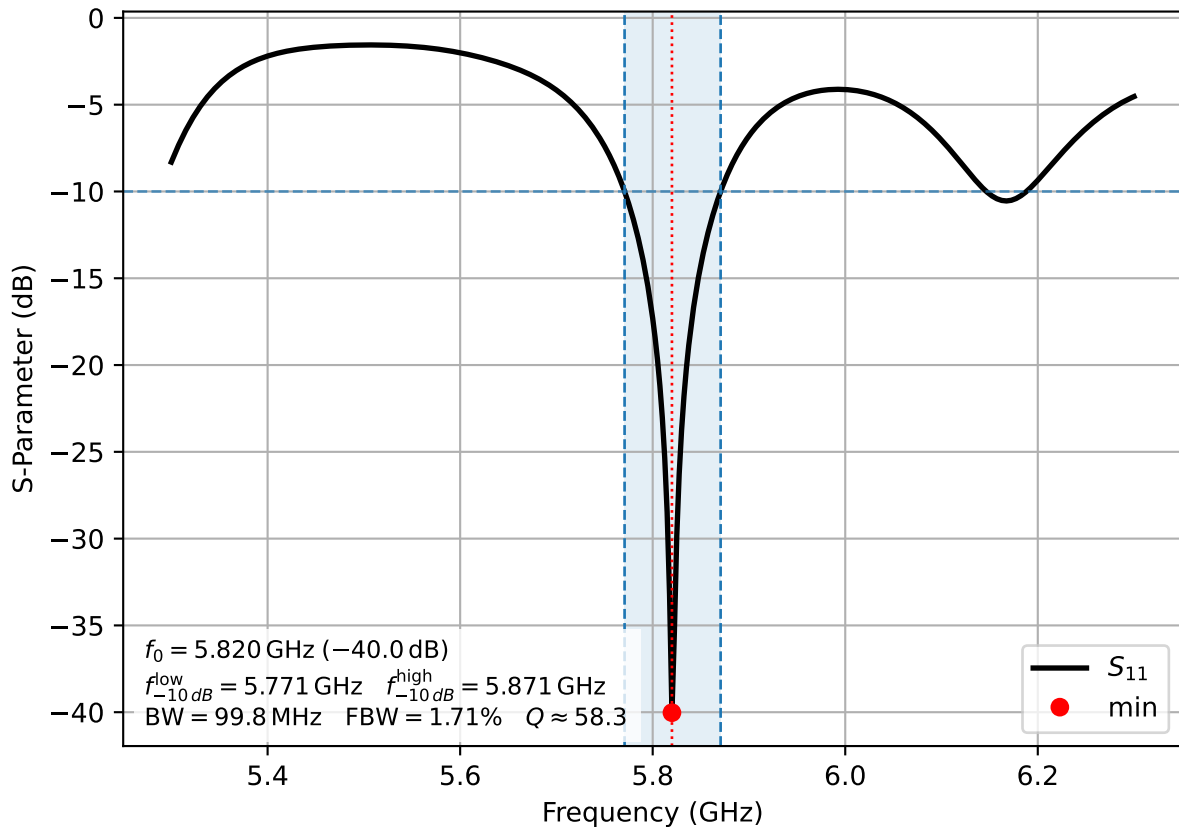


Reflection Coefficient S_{11}

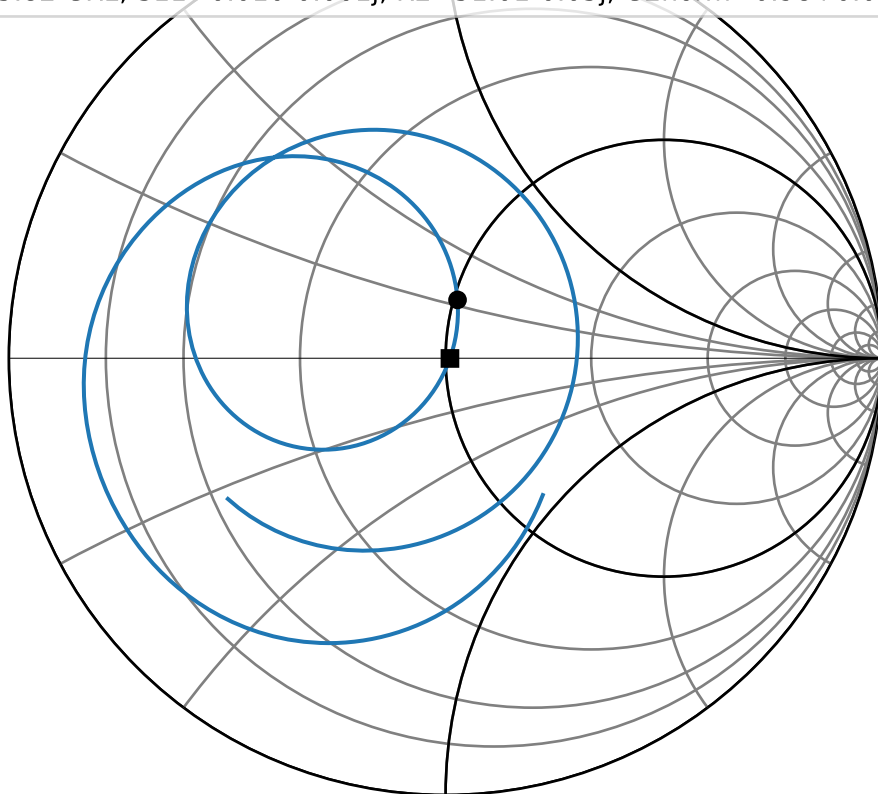


Smith Chart

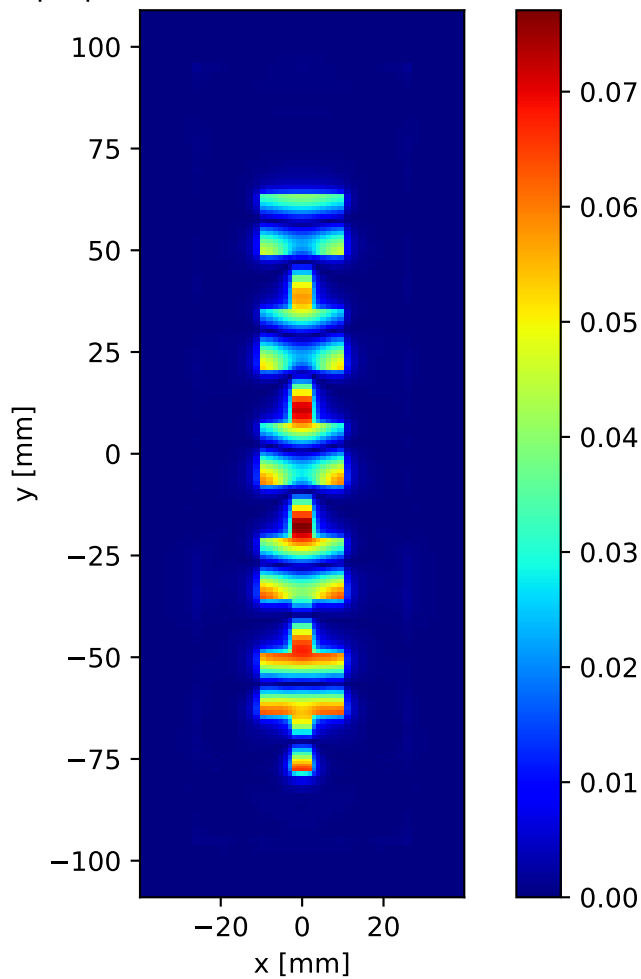
— S11 (Patch W=19.00 mm, L=14.10 mm)

● 5.80 GHz, $S_{11}=0.027+0.134j$, $R=50.91+13.85j$, $G_{\text{norm}}=0.91-0.25j$

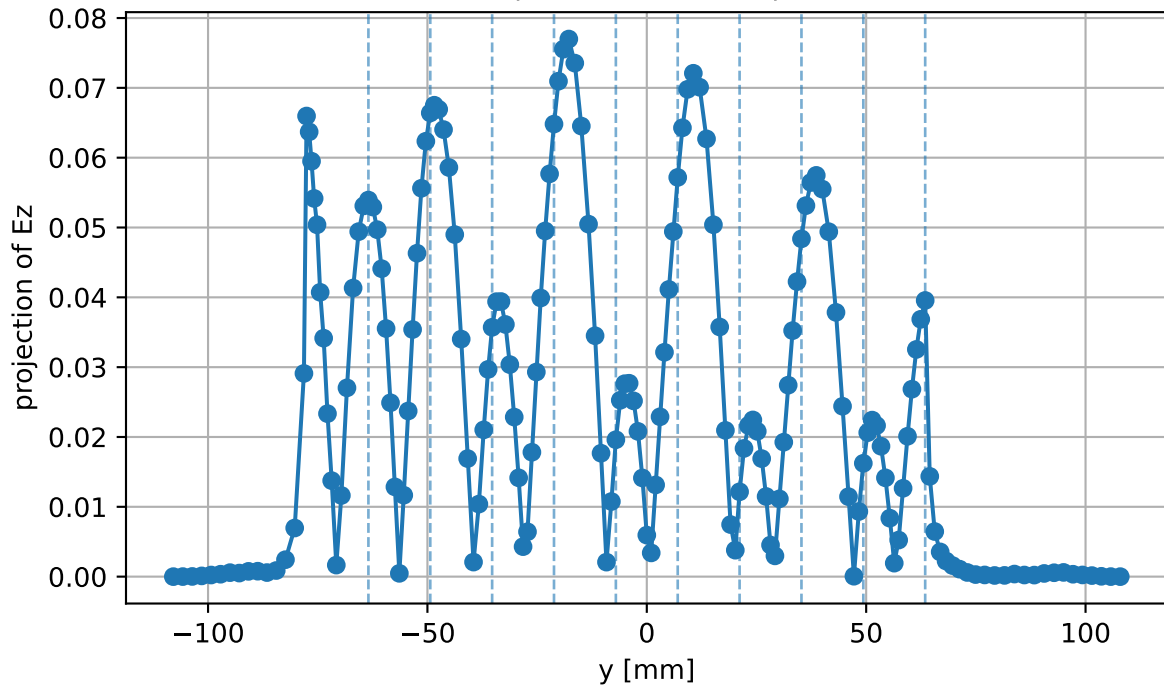
■ 5.82 GHz, $S_{11}=0.010-0.001j$, $R_2=51.01-0.05j$, $G_{2\text{norm}}=0.98+0.00j$



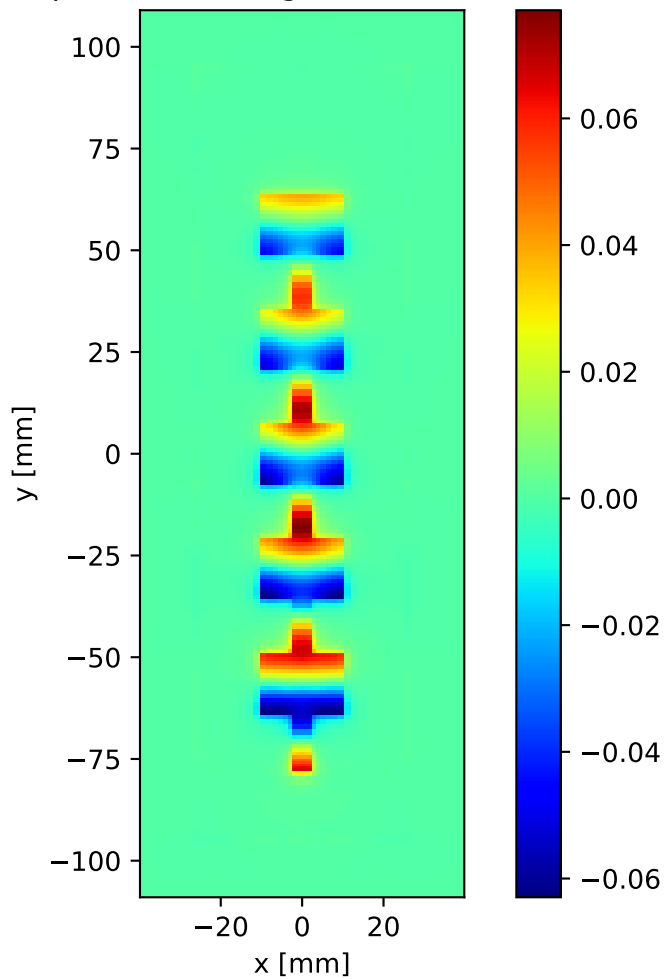
$|E_z|$ slice at $z = 0.76$ mm (idx 20)



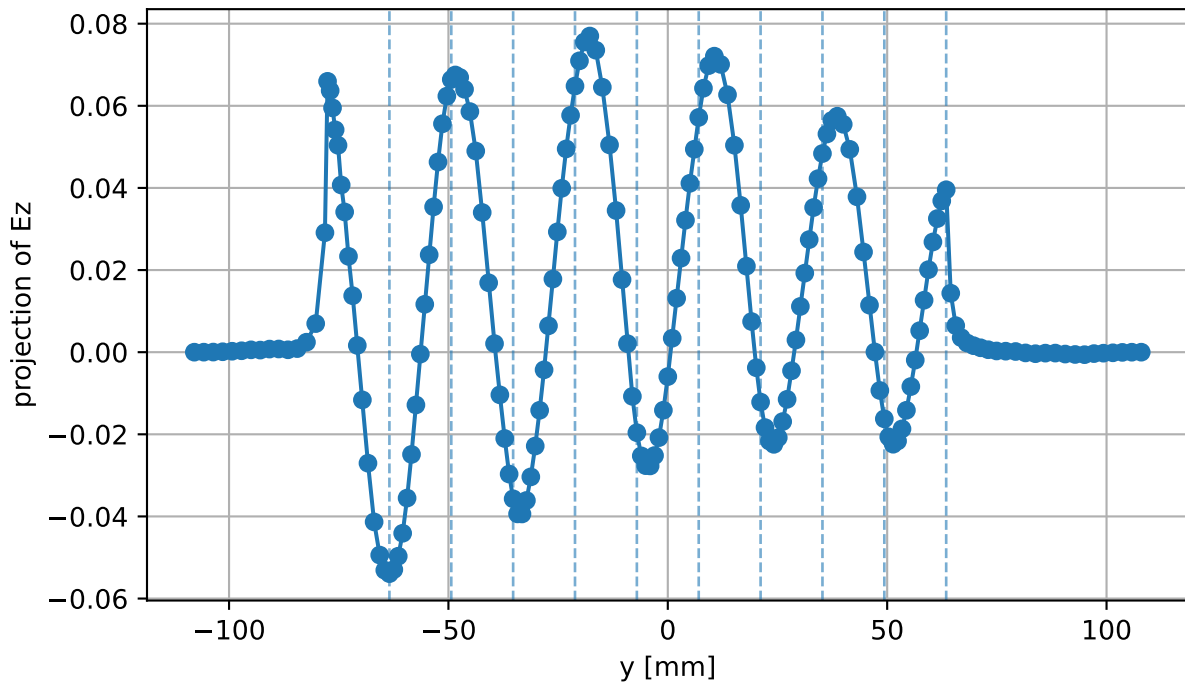
$|E_z|$ line cut along Y at $x=0.00$ mm, $z=0.76$ mm
(idx $x=22$, $z=20$)



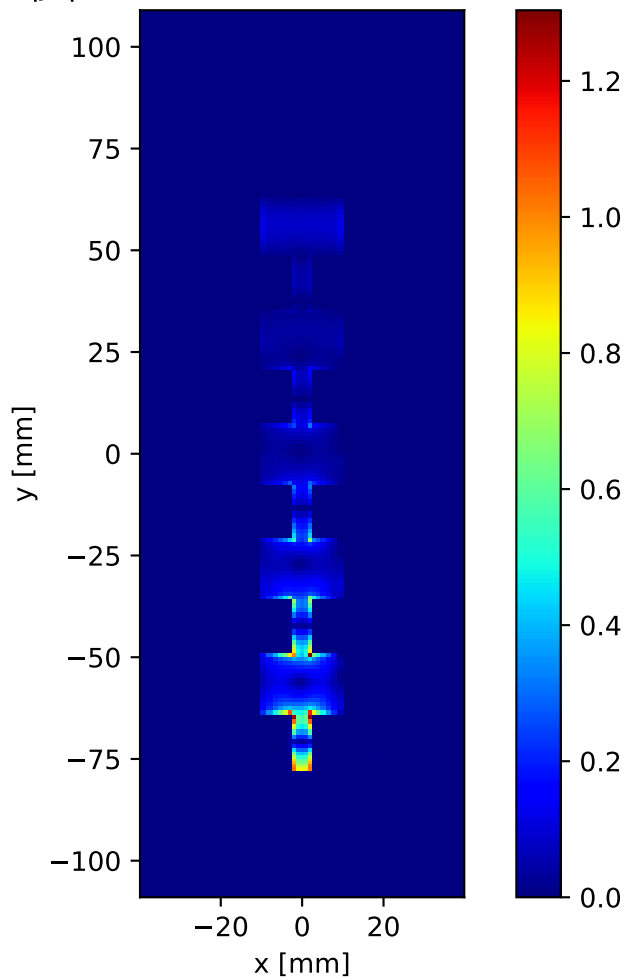
Ez snapshot (dphi=179.96deg) slice at $z = 0.76$ mm (idx 20)



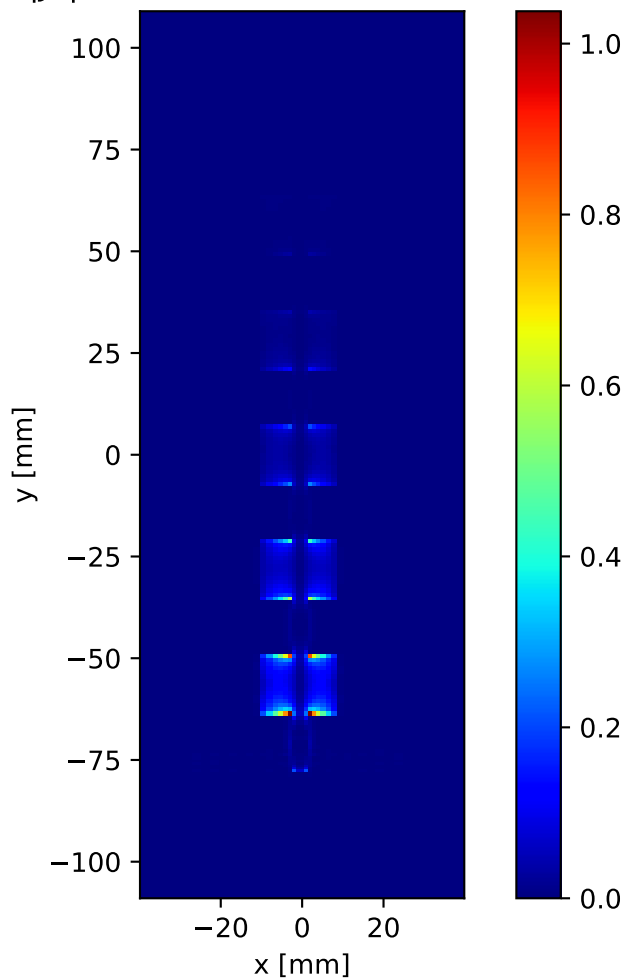
Ez snapshot (dphi=179.96deg) line cut along Y at x=0.00 mm, z=0.76 mm
(idx x=22, z=20)



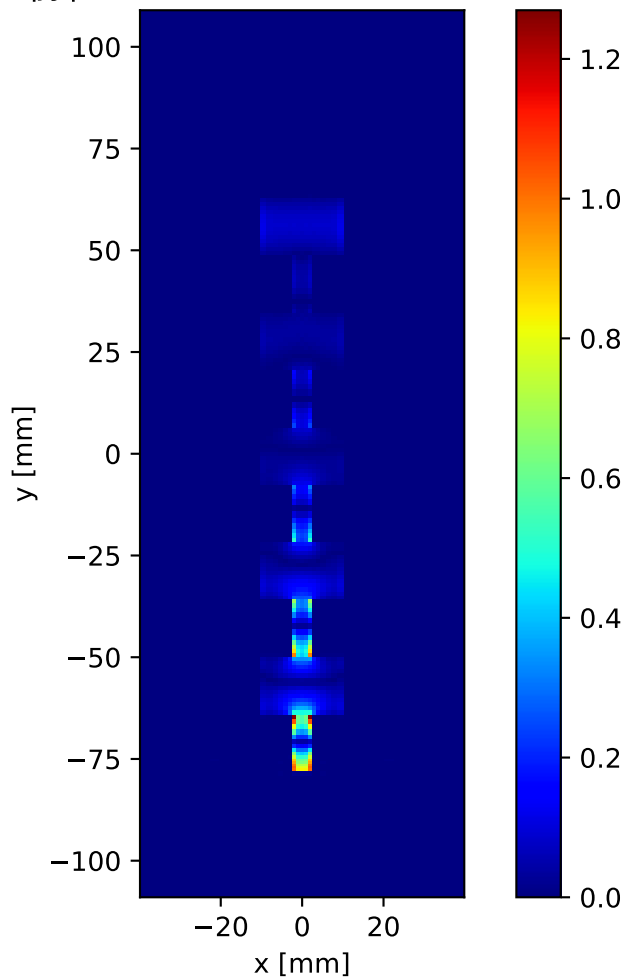
$|J_s|$ slice at $z = 1.524$ mm (idx 22)



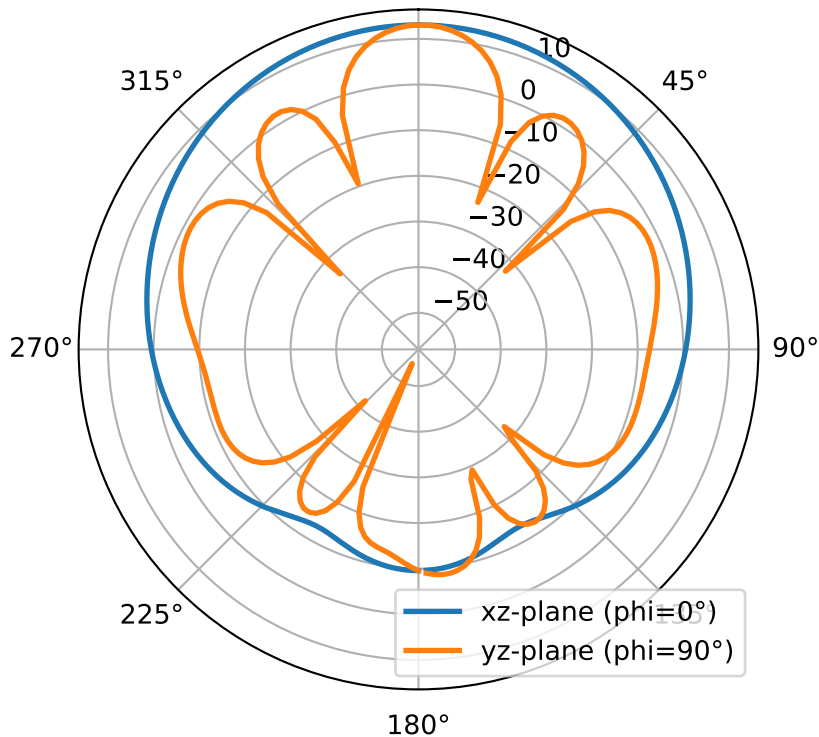
$|J_x|$ slice at $z = 1.524$ mm (idx 22)



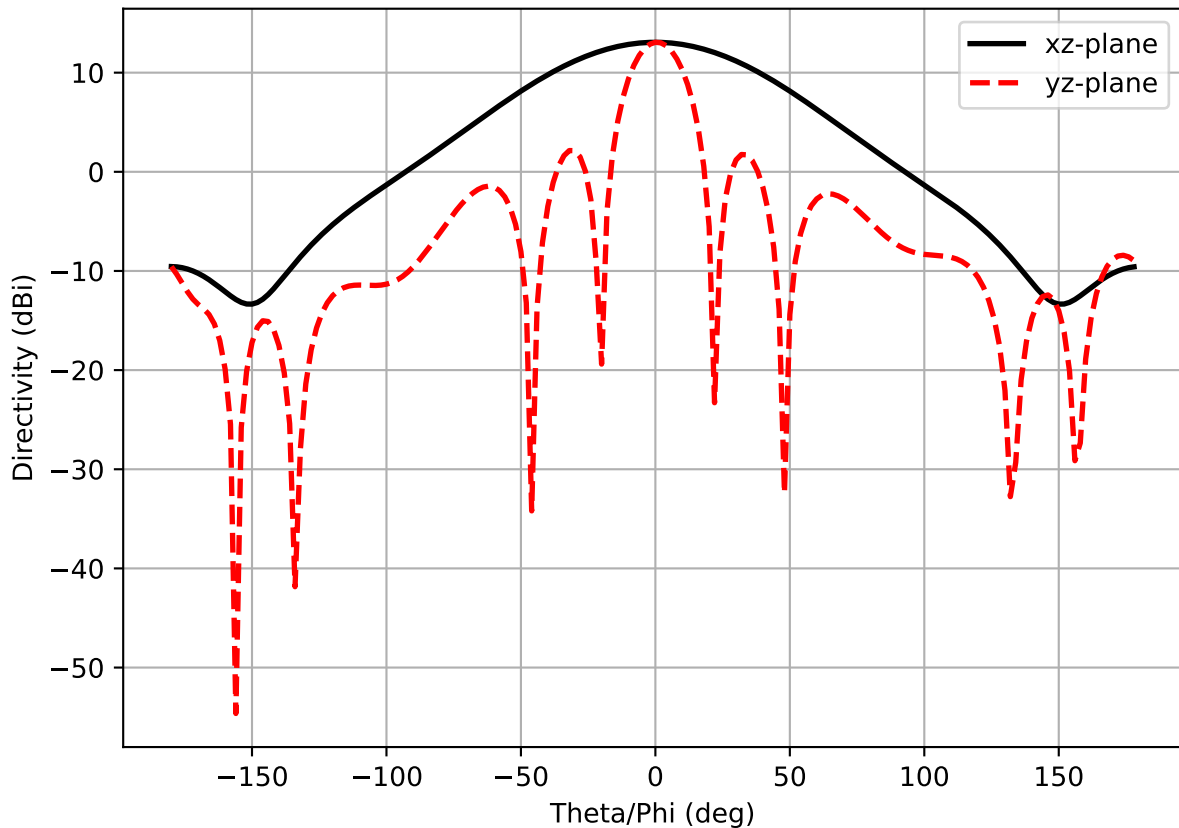
$|j_y|$ slice at $z = 1.524$ mm (idx 22)



$f = 5.800 \text{ GHz}$ — Directivity (dB)
 $D_{\text{max}} (\text{integrated}) \approx 13.07 \text{ dB}$, $\text{nf2ff } D_{\text{max}} = 13.07 \text{ dB}$



Frequency: 5.800 GHz



3D Directivity Pattern
 $f = 5.800 \text{ GHz}$, $D_{\text{max}} = 13.07 \text{ dBi}$

