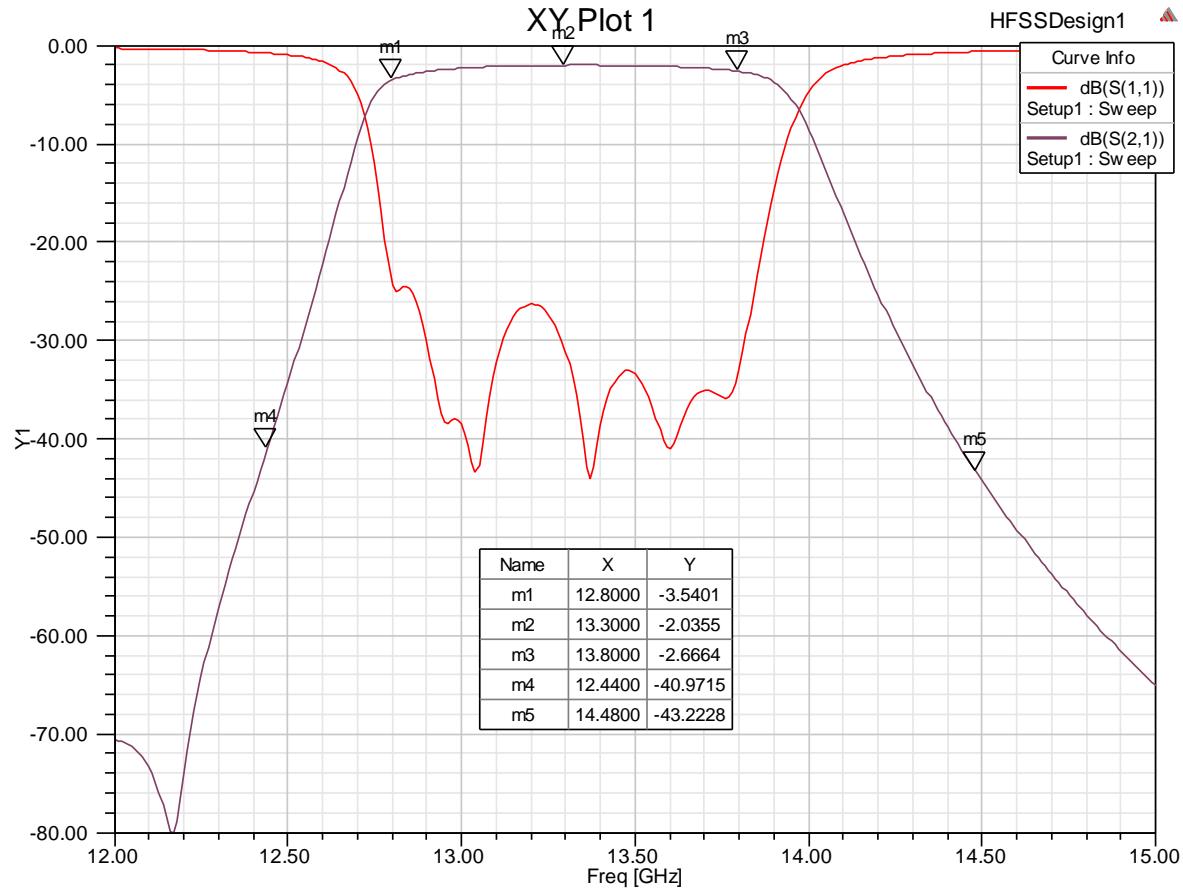


Simulated Data in HFSS

Parameters	
Pass-Band Frequency	12.8-13.8 GHz
Insertion Loss	2.1dB @ Fc
Insertion Loss Flatness	<1.6dB
Return Loss	>20dB
40dB Rejection Frequency	12.43 GHz & 14.48 GHz
Material	Alumina er=9.9
Board Thickness	0.015 in
Metallization	TiW/Au 0.22 mil thick
Cavity Above Substrate	0.140 in

- Actual hardware data may be different from the simulated data depending on the material quality, accuracy of the dielectric constant & thickness, metallization type, etching tolerance, housing material, method of substrate attachment to the housing, and any mismatch between the filter and the interface port of the measuring device.