



Oshkosh

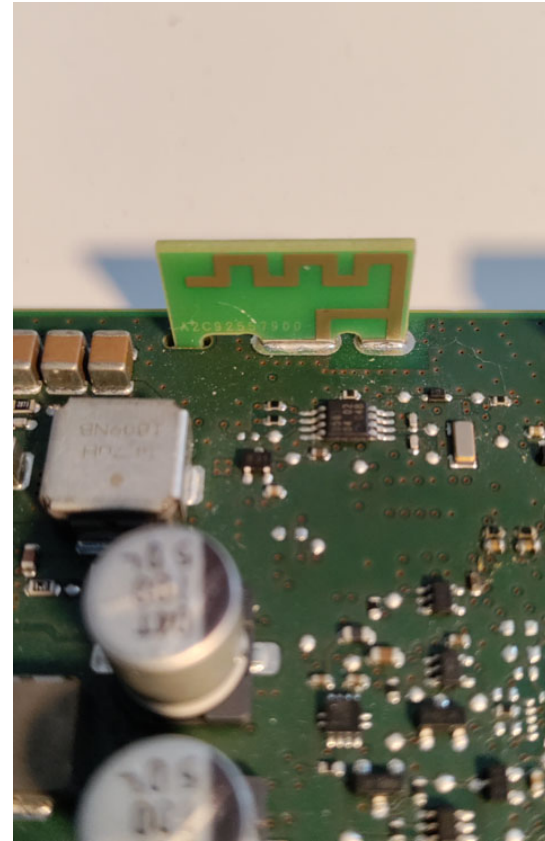
Internal Bluetooth/WiFi antenna characteristics

June 2023

www.continental-corporation.com

Interior Division

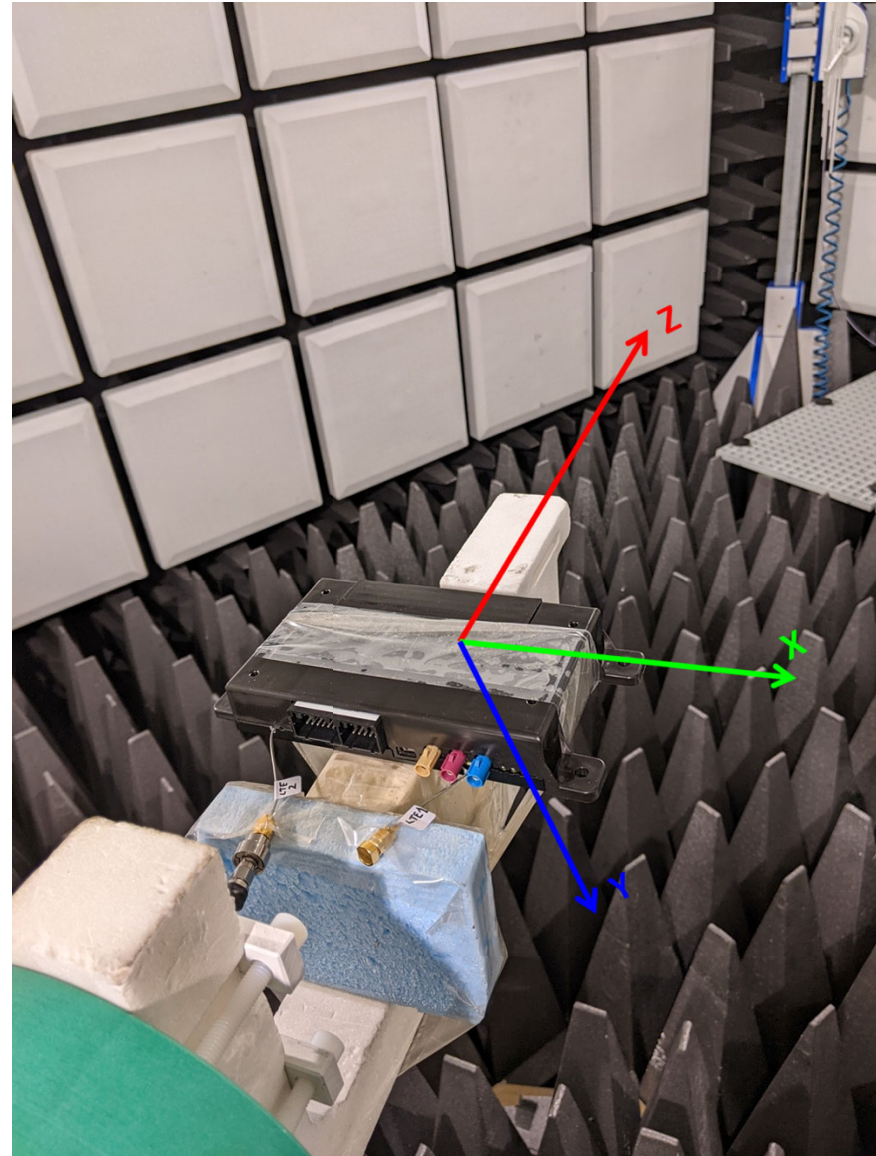
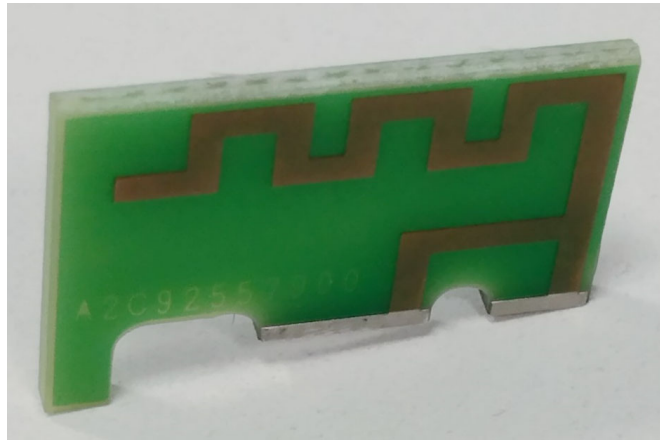
Bluetooth/WiFi Antenna Position of Antenna in the Device



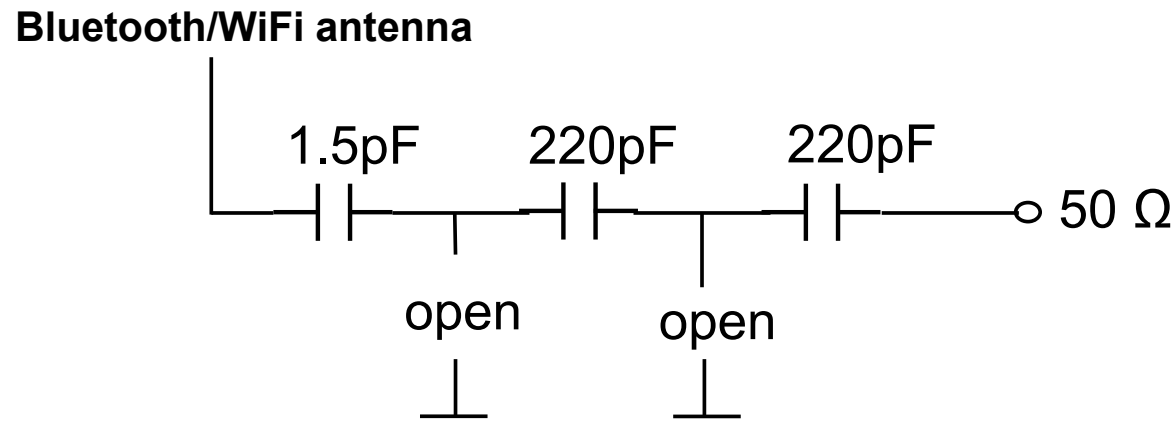
Bluetooth/WiFi antenna Position inside the device (left), Picture of antenna (right)

Anechoic chamber setup

Bluetooth/WiFi Antenna

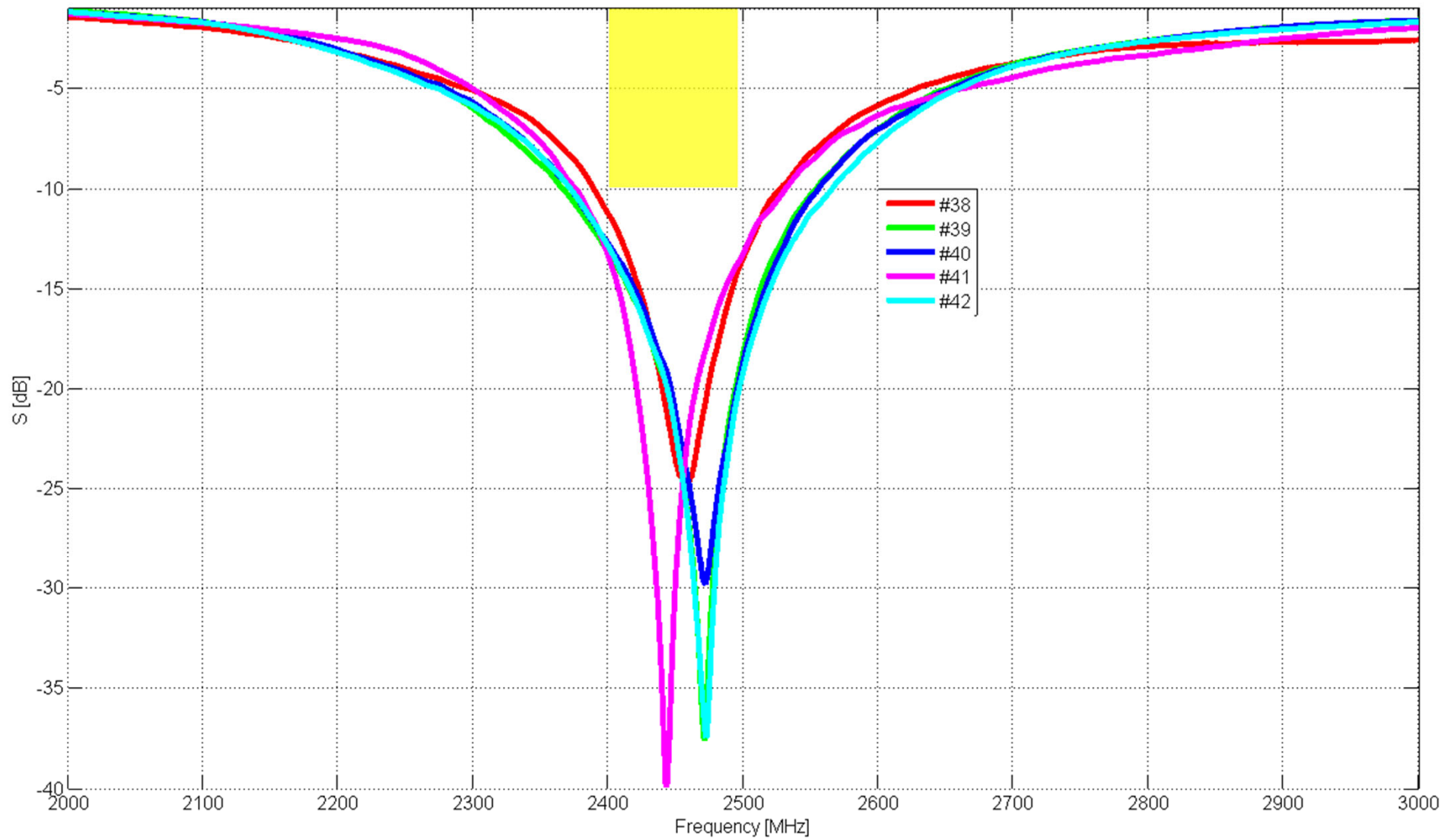


Bluetooth/WiFi – matching circuit topology

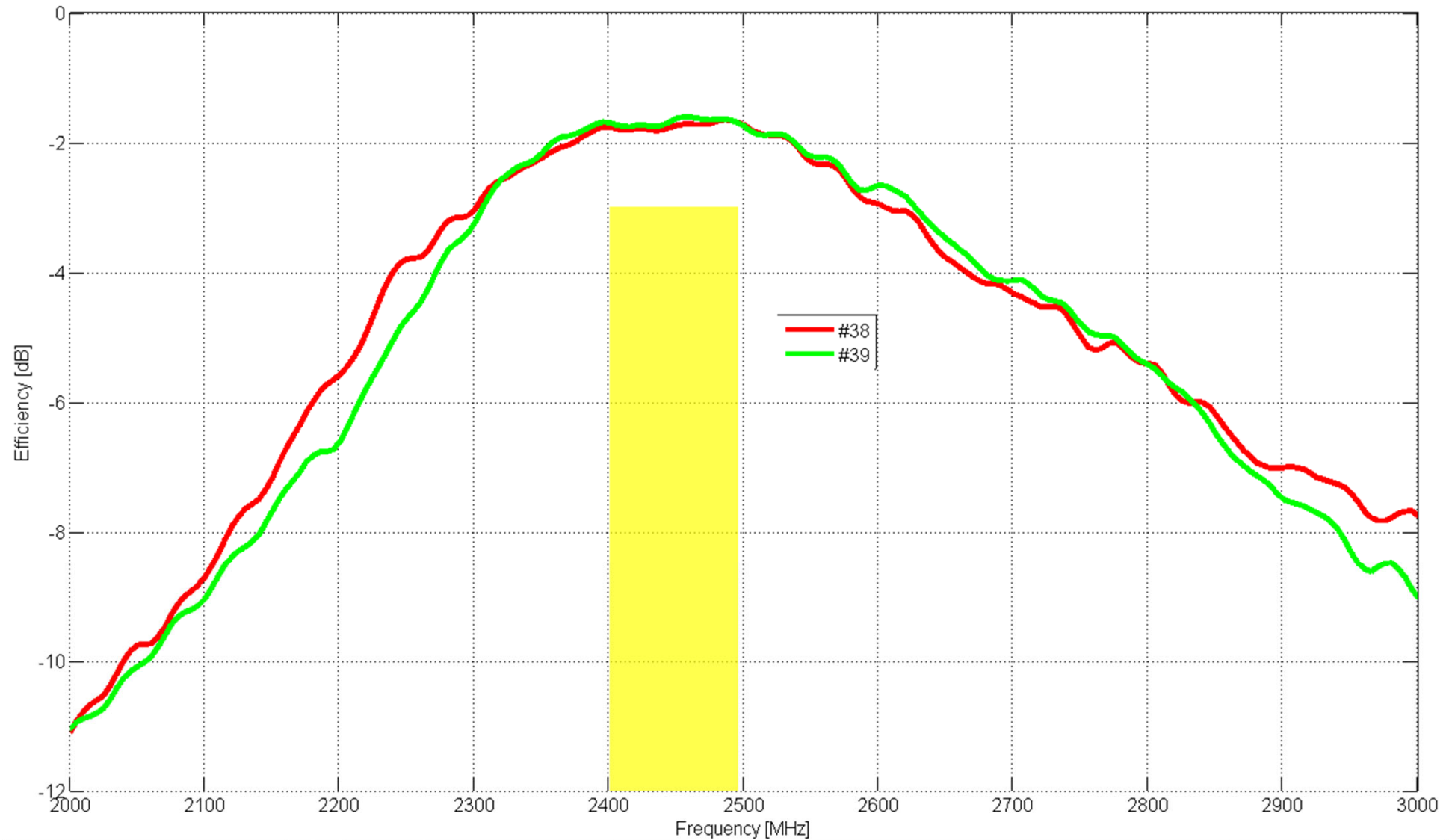


1.5 pF: A2C01779900
220pF: A2C02373300

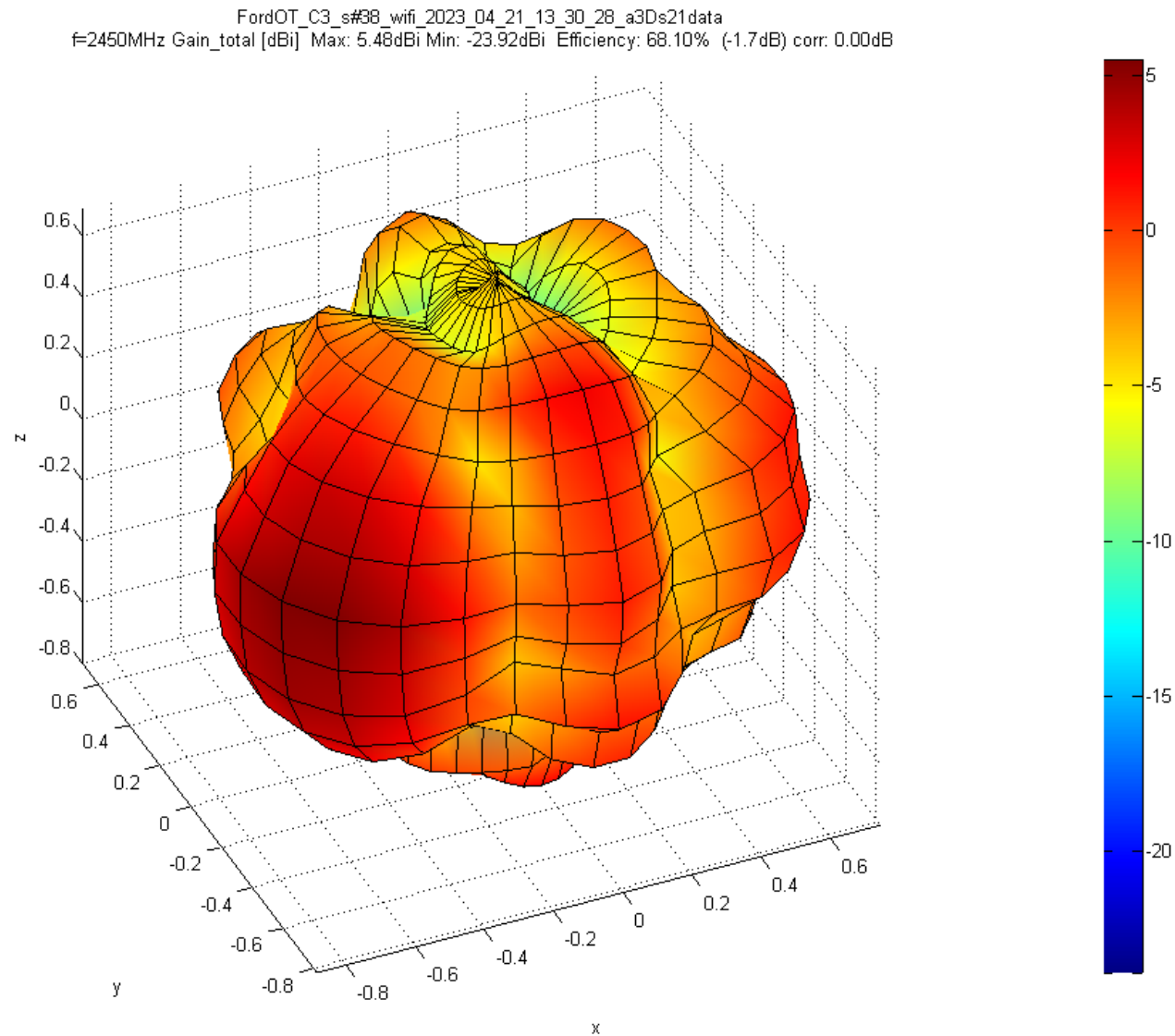
Bluetooth/WiFi – Input reflection coefficient



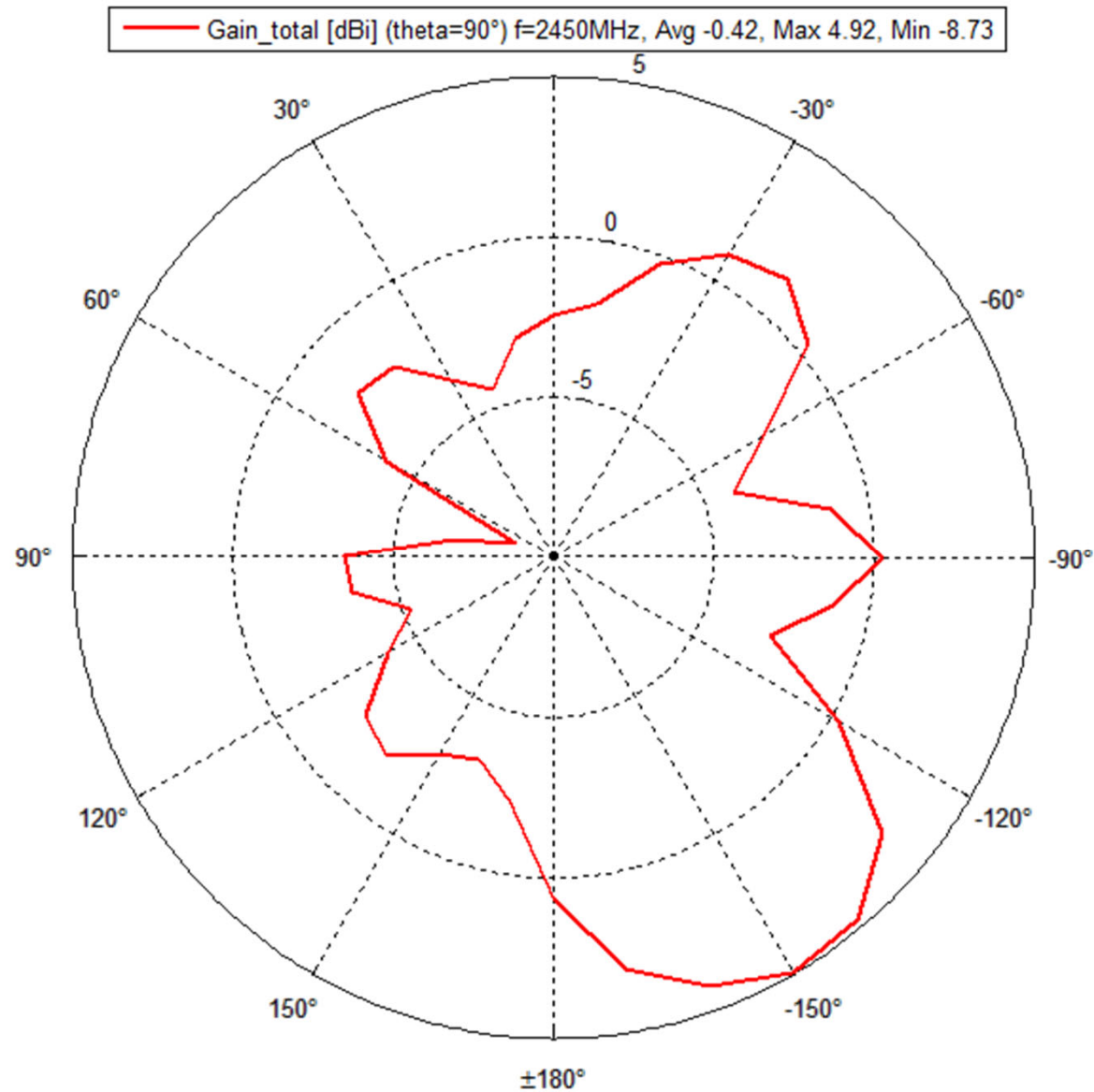
Bluetooth/WiFi – Radiation Efficiency



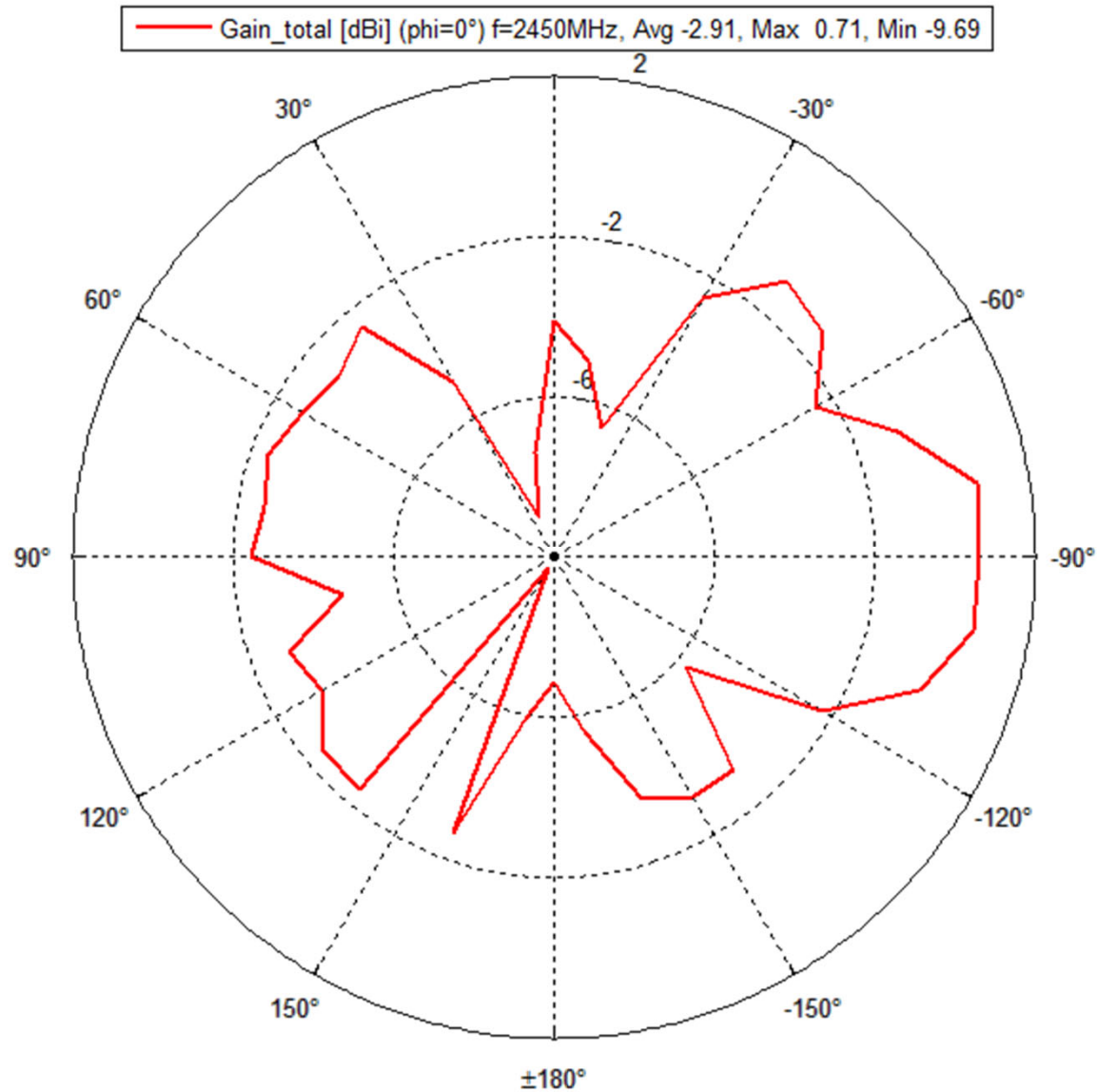
Bluetooth/WiFi – 3D Total Gain plot



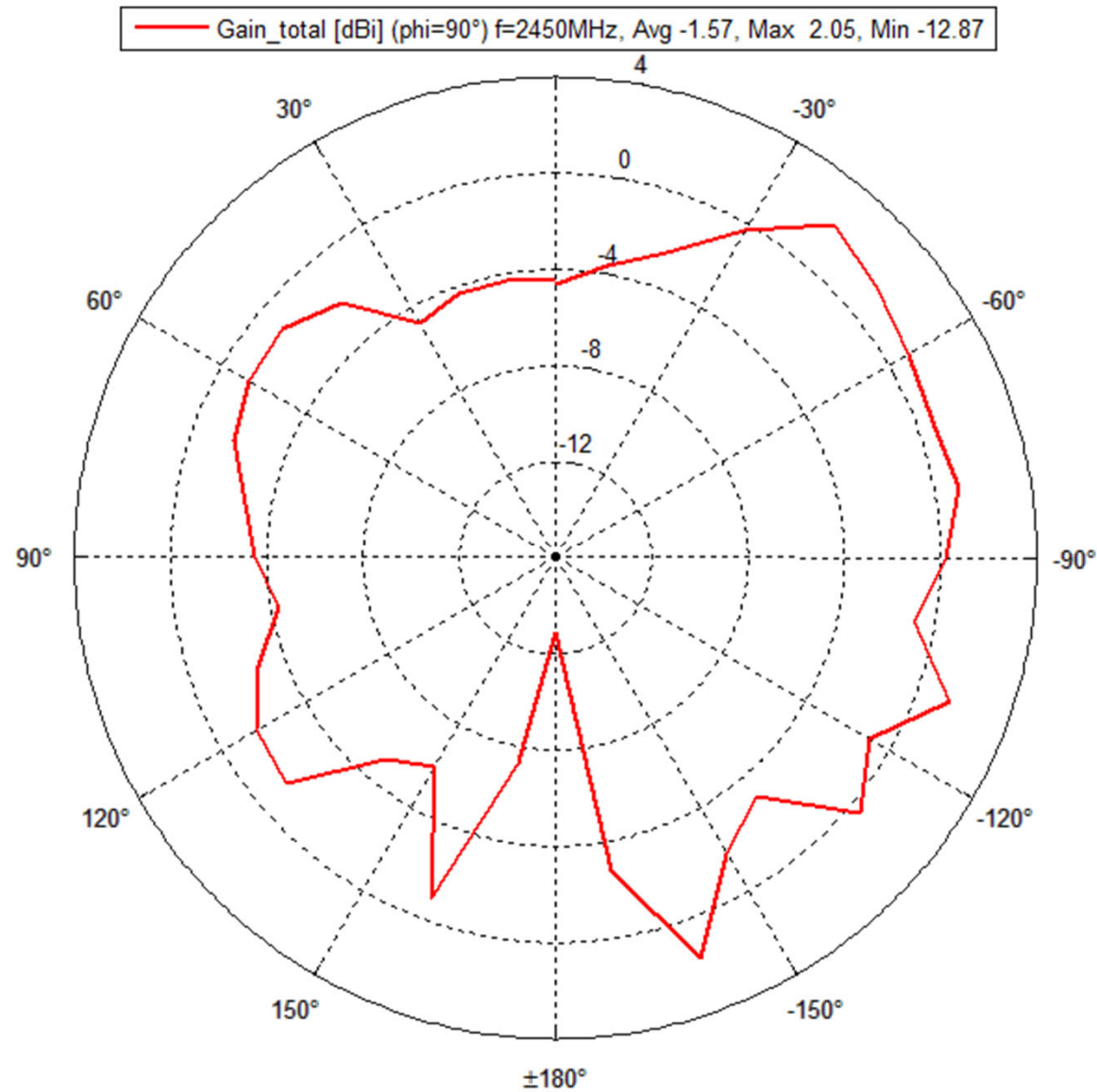
Bluetooth/WiFi – 2D Total Gain XY plane



Bluetooth/WiFi – 2D Total Gain XZ plane



Bluetooth/WiFi – 2D Total Gain YZ plane



Bluetooth/WiFi – Max & Average gain

Freq [MHz]	Max Gain [dBi]	Avg Gain [dBi]
2400	+5.29	-1.77
2410	+5.39	-1.81
2420	+2.48	-1.79
2430	+5.53	-1.8
2440	+5.49	-1.81
2450	+5.48	-1.74
2460	+5.36	-1.72
2470	+5.35	-1.73
2480	+5.52	-1.68
2490	+5.61	-1.66
2500	+5.65	-1.74