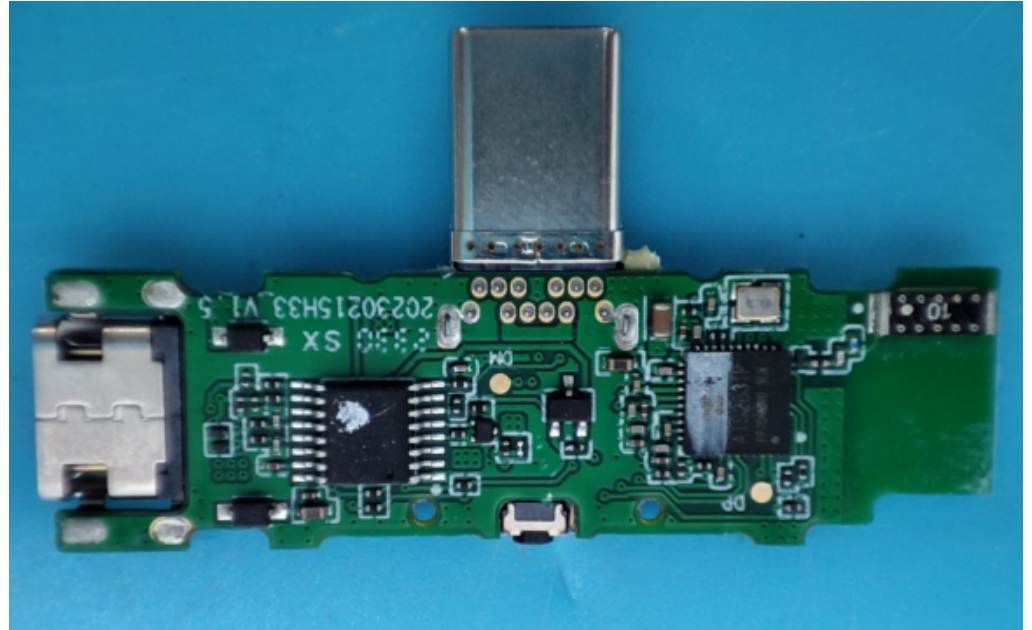
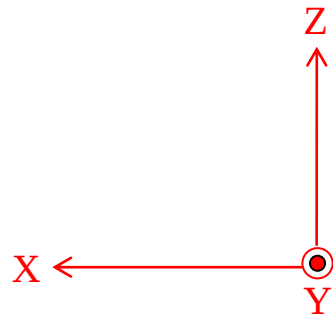


Report for Broadcom

Tested Products.

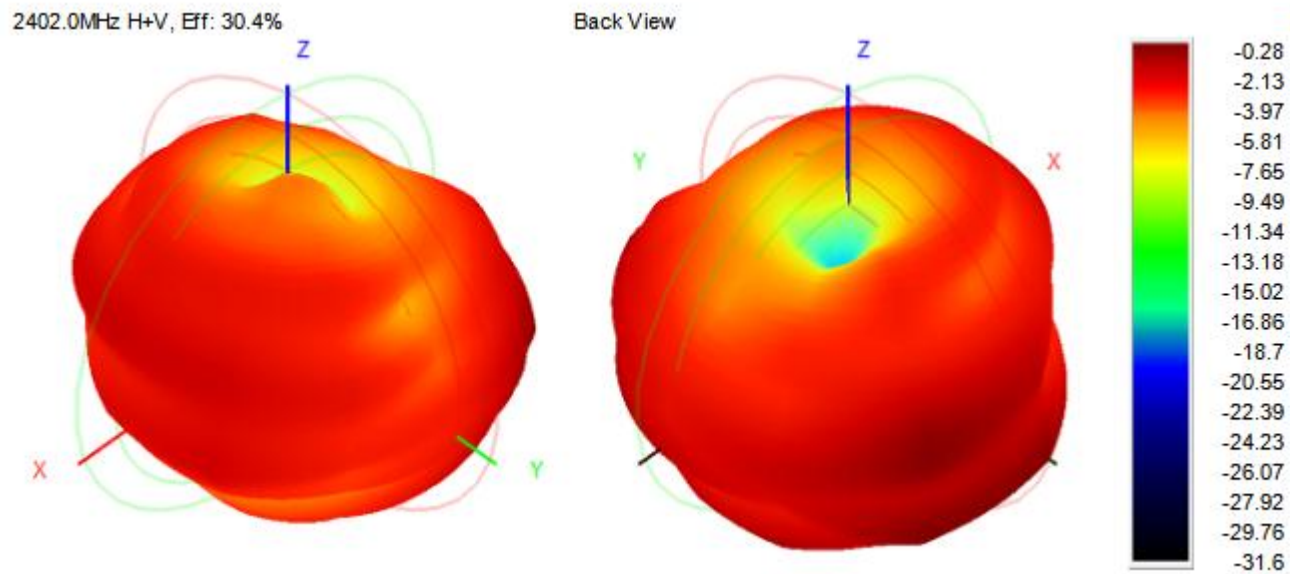
- Antenna 1: external antenna.
 - Frequency =2402MHz
 - Frequency =2404MHz
 - Frequency =2440MHz
 - Frequency =2441MHz
 - Frequency =2472MHz
 - Frequency =2480MHz

Coordinate System Reference: Antenna-RX



Radiation pattern: Antenna-RX 3D Pattern at $f = 2402\text{MHz}$

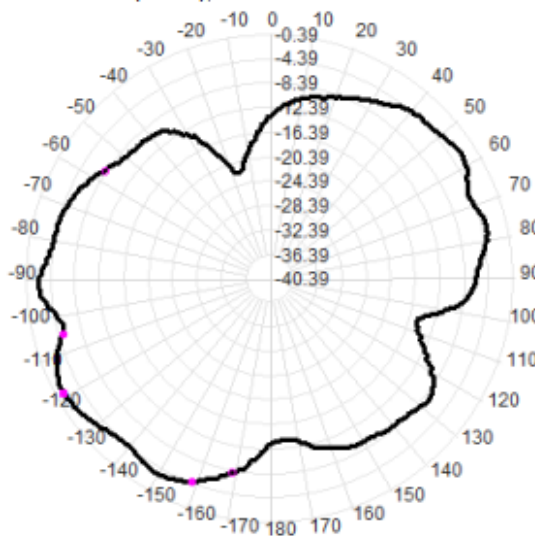
Coordinate System Reference: Antenna-RX



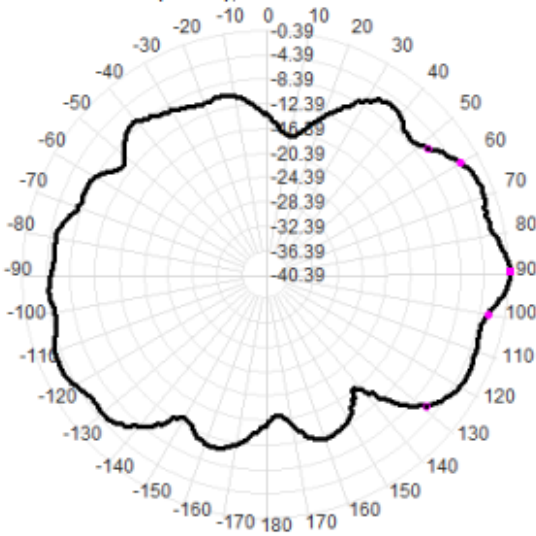
Coordinate System Reference: Antenna-RX

Radiation pattern: Antenna-RX 2D Pattern at $f = 2402\text{MHz}$

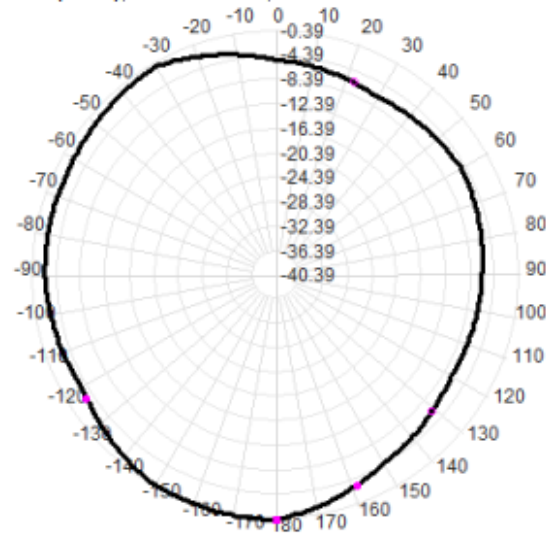
2402.0MHz Total(E1-XZ), Max=-1.81dBi



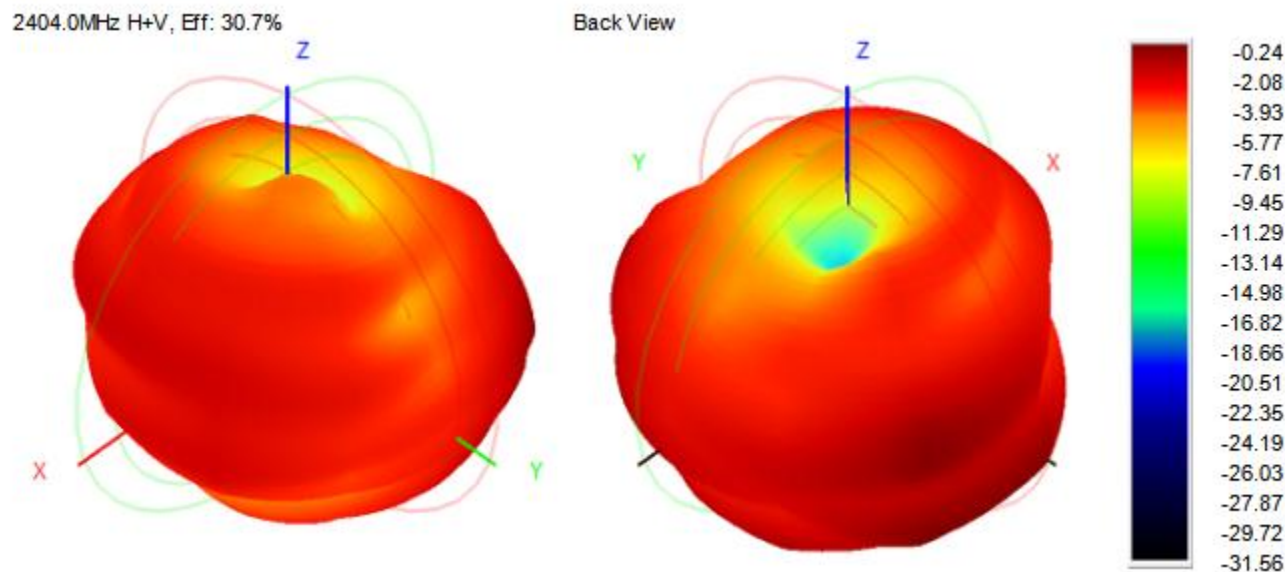
2402.0MHz Total(E2-YZ), Max=-0.39dBi



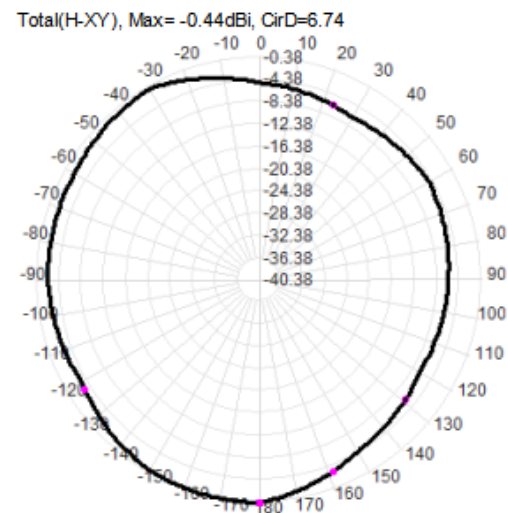
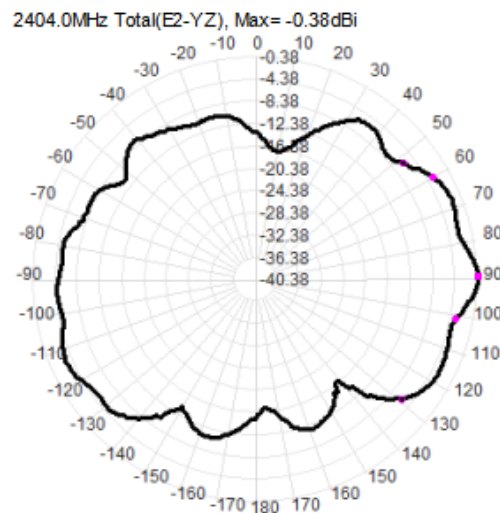
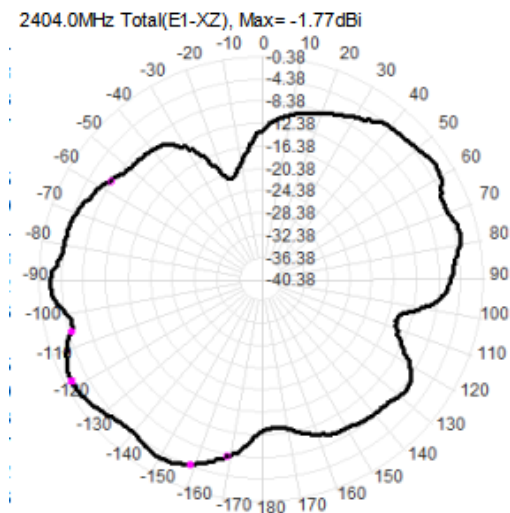
Total(H-XY), Max=-0.44dBi, CirD=6.89



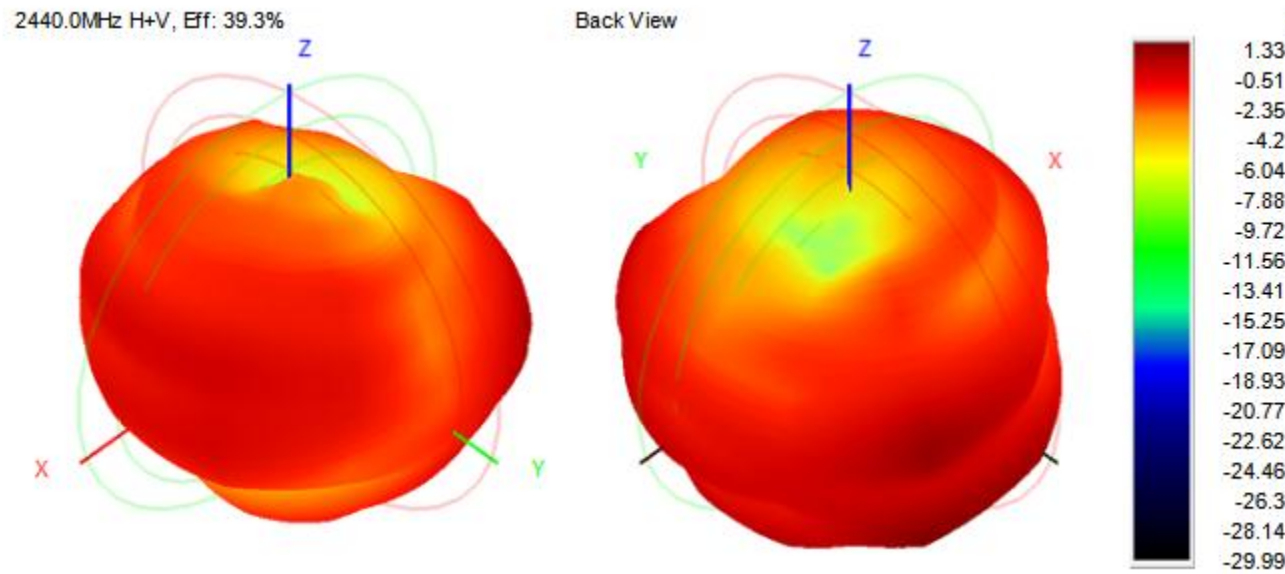
Radiation pattern: Antenna-RX 3D Pattern at $f = 2404\text{MHz}$



Radiation pattern: Antenna-RX 2D Pattern at $f = 2404\text{MHz}$

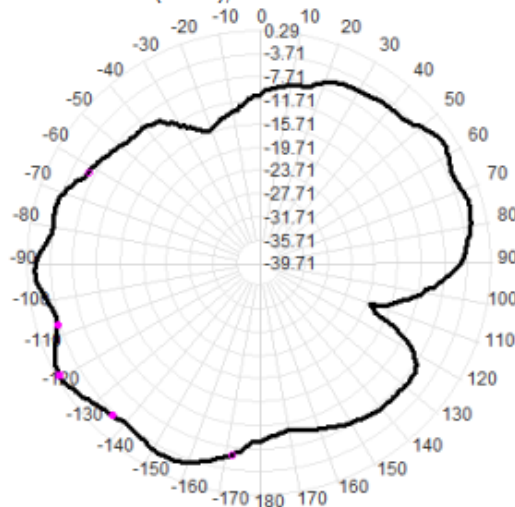


Radiation pattern: Antenna-RX 3D Pattern at $f = 2440\text{MHz}$

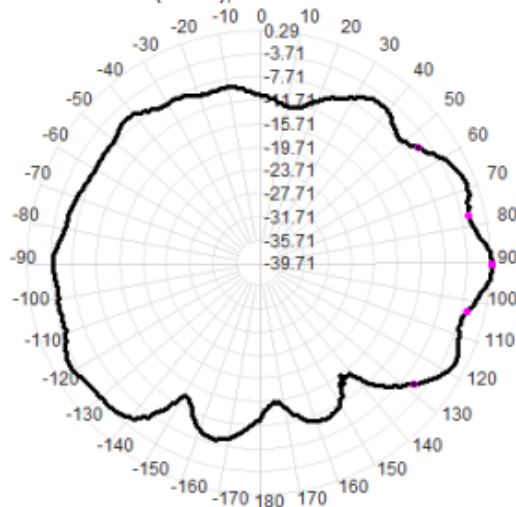


Radiation pattern: Antenna-RX 2D Pattern at $f = 2440\text{MHz}$

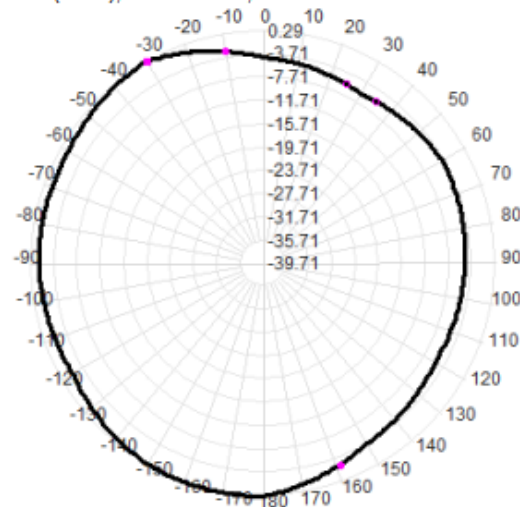
2440.0MHz Total(E1-XZ), Max= -0.42dBi



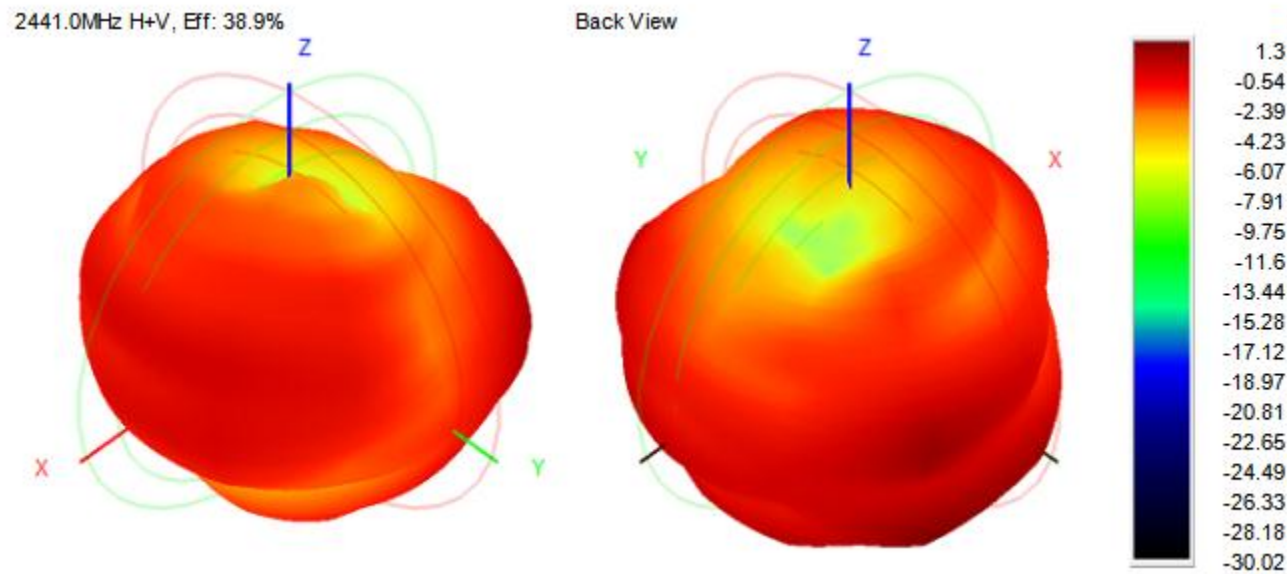
2440.0MHz Total(E2-YZ), Max= 0.24dBi



Total(H-XY), Max= 0.29dBi, CirD=6.34

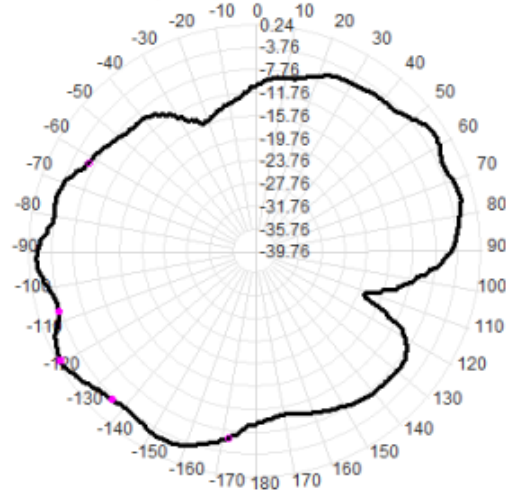


Radiation pattern: Antenna-RX 3D Pattern at $f = 2441\text{MHz}$

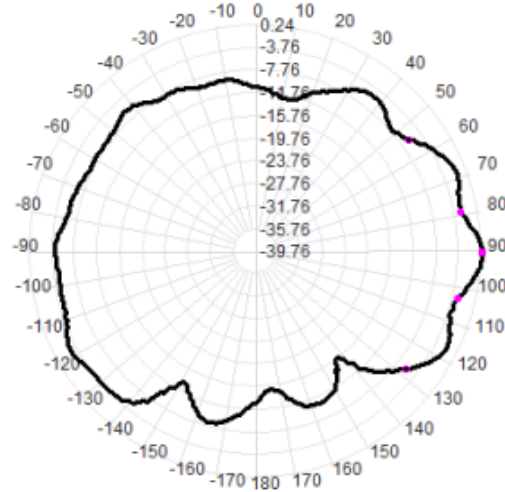


Radiation pattern: Antenna-RX 2D Pattern at $f = 2441\text{MHz}$

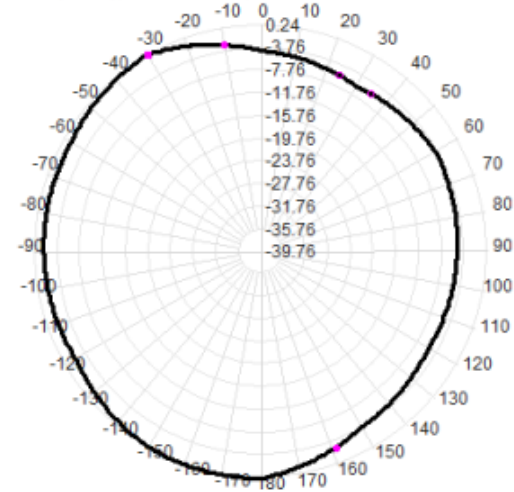
2441.0MHz Total(E1-XZ), Max=-0.42dBi



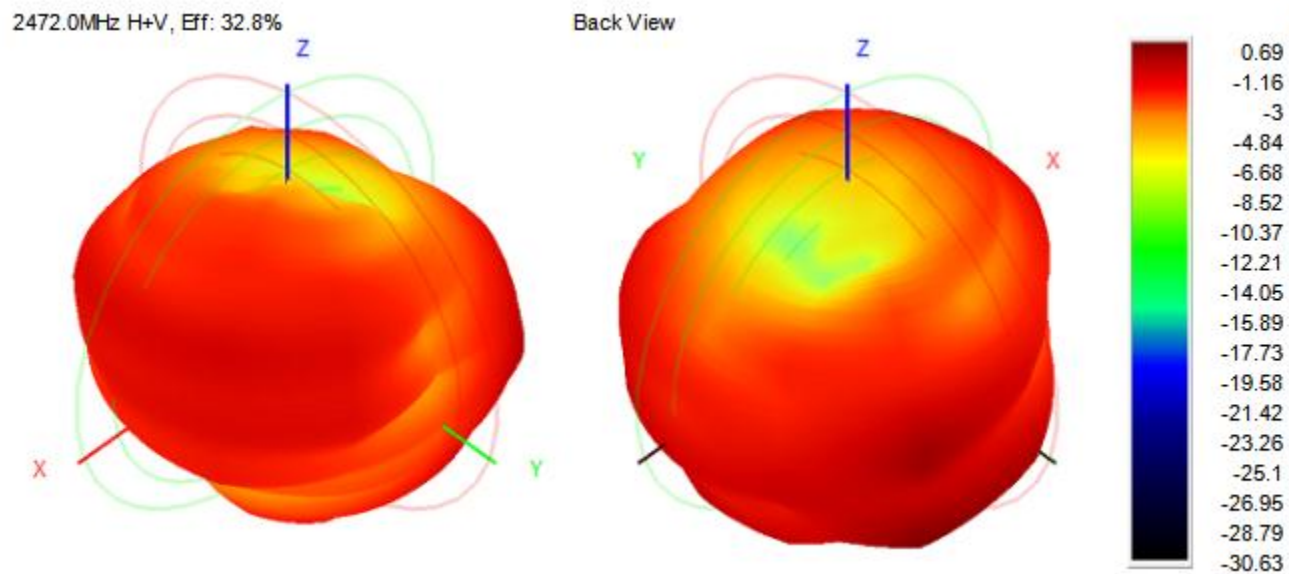
2441.0MHz Total(E2-YZ), Max=0.21dBi



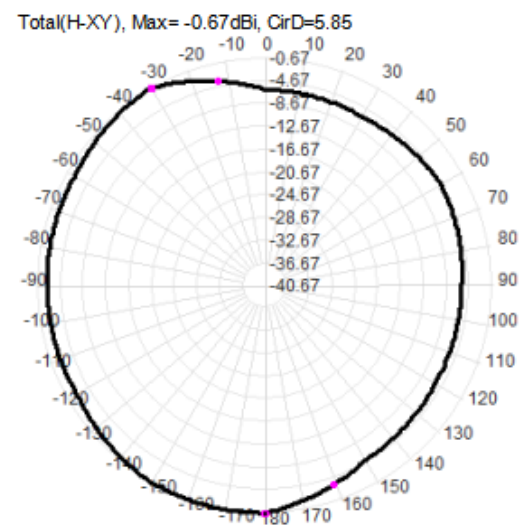
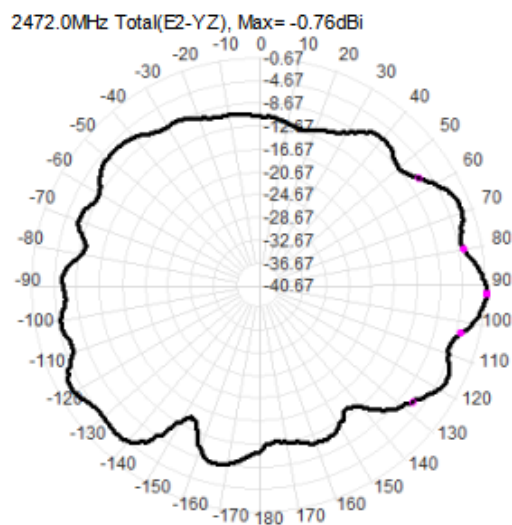
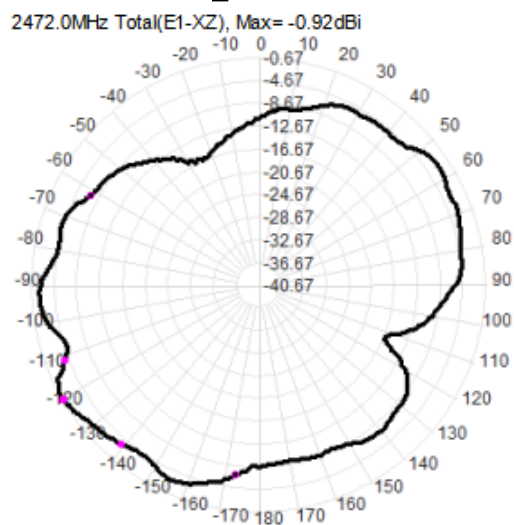
Total(H-XY), Max=0.24dBi, CirD=6.35



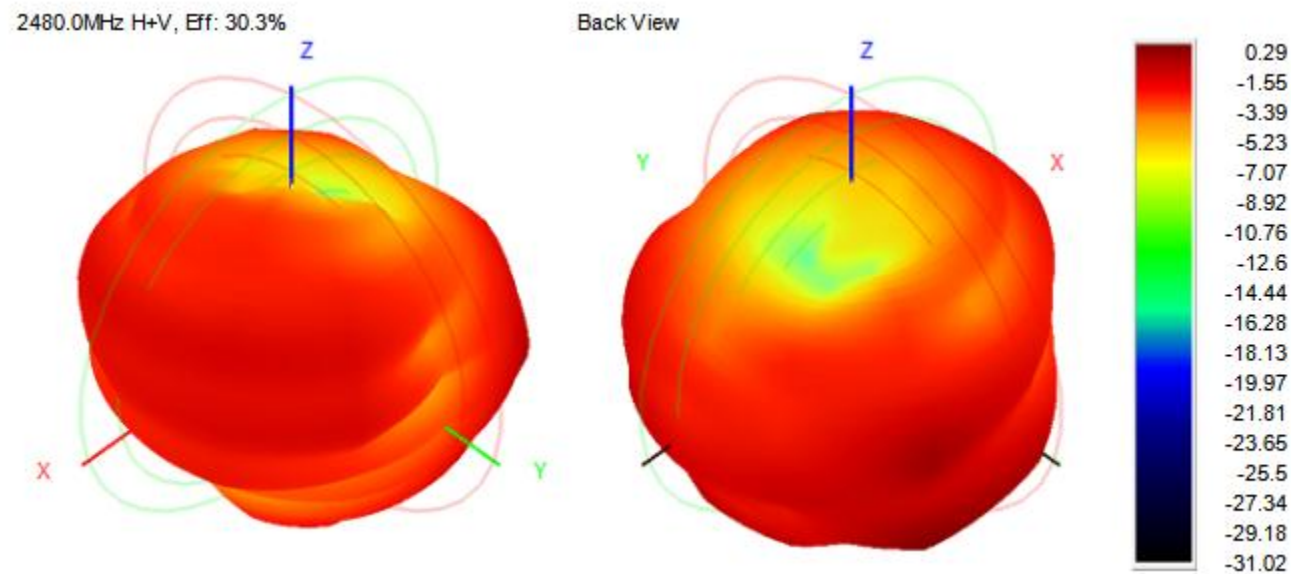
Radiation pattern: Antenna-RX 3D Pattern at $f = 2472\text{MHz}$



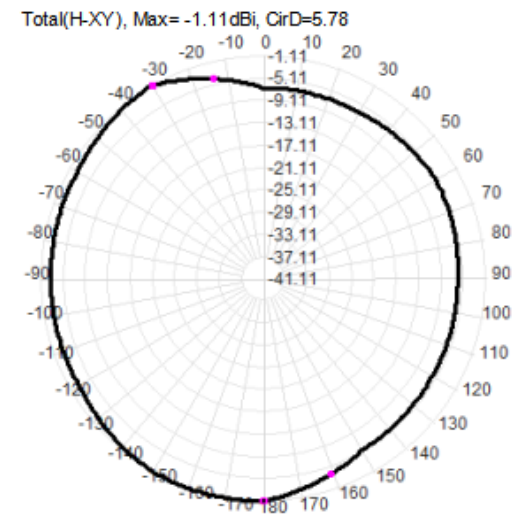
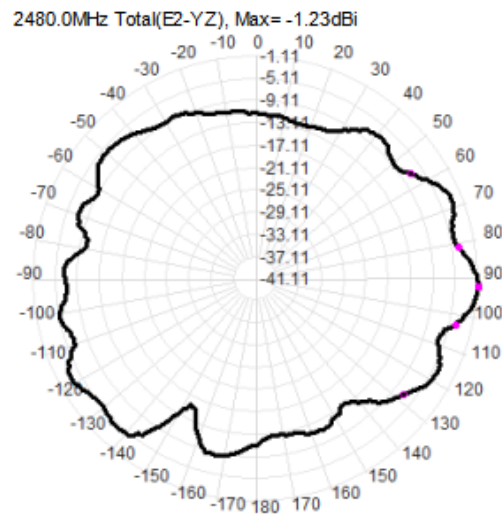
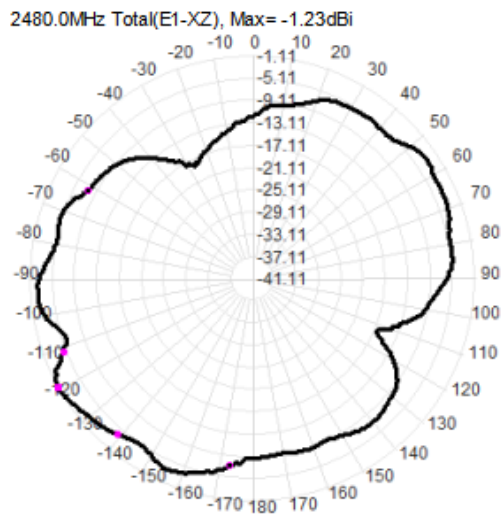
Radiation pattern: Antenna-RX 2D Pattern at $f = 2472\text{MHz}$



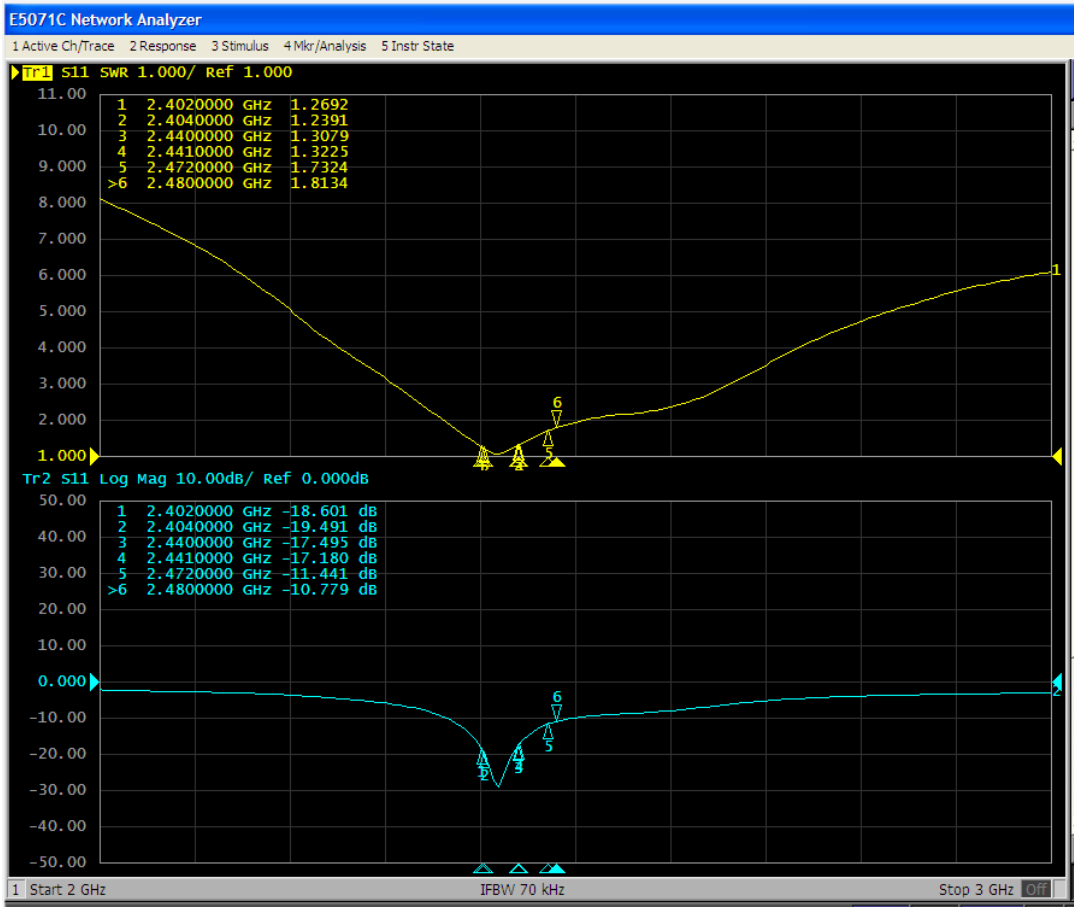
Radiation pattern: Antenna-RX 3D Pattern at $f = 2480\text{MHz}$



Radiation pattern: Antenna-RX 2D Pattern at $f = 2480\text{MHz}$



Rturn Loss: Antenna1



Measurements summary

Frequency ID	1	2	3	4	5	6
Frequency (MHz)	2402.0	2404.0	2440.0	2441.0	2472.0	2480.0
Gain (dBi)	-0.28	-0.24	1.33	1.30	0.69	0.29
Efficiency (%)	30.39	30.66	39.21	38.91	32.79	30.25
Directivity (dB)	4.89	4.89	5.40	5.40	5.53	5.49
Peak Gain Position (Theta)	85.00	85.00	84.00	83.00	82.00	81.00
Peak Gain Position (Phi)	120.00	120.00	120.00	120.00	120.00	120.00
Efficiency ThetaPol (%)	24.75	24.92	30.61	30.39	24.62	22.46
Efficiency PhiPol (%)	5.64	5.74	8.60	8.52	8.17	7.79
Upper Hem. Efficiency (%)	15.30	15.40	19.32	19.17	15.81	14.52
Lower Hem. Efficiency (%)	15.09	15.26	19.89	19.74	16.98	15.73