

3. WiFi Aux Antenna Specification

Winmate Part Number: 90RF06000014

3.1. Electrical Characteristics

Frequency(MHz): 2400-2500 / 5150-5850 / 5925-7125

SWR: $\leq 1.59@2400-2500\text{MHz}$

$\leq 1.41@5150-5850\text{MHz}$

$\leq 1.67@5925-7125\text{MHz}$

Return Loss: $\leq -16.7\text{dB}@2400-2500\text{MHz}$

$\leq -10.4\text{dB}@5150-5850\text{MHz}$

$\leq -6.3\text{dB}@5925-7125\text{MHz}$

Peak Gain: $2.02\text{dBi}@2400-2500\text{MHz}$

$2.01\text{dBi}@5150-5850\text{MHz}$

$2.10\text{dBi}@5925-7125\text{MHz}$

Impedance: 50ohm

Polarization: Linear

3.2. Mechanical Characteristics

Cable: 50 Ω $\phi 0.81$ RF cable

Connector: MHF

PCB: FR4 /Thickness 0.2mm

3.3. Environmental Characteristics

Operating Temperature: -30°C to 80°C

3.4. Antenna Manufacturer Contact Information

Supplier: Winmate Inc.

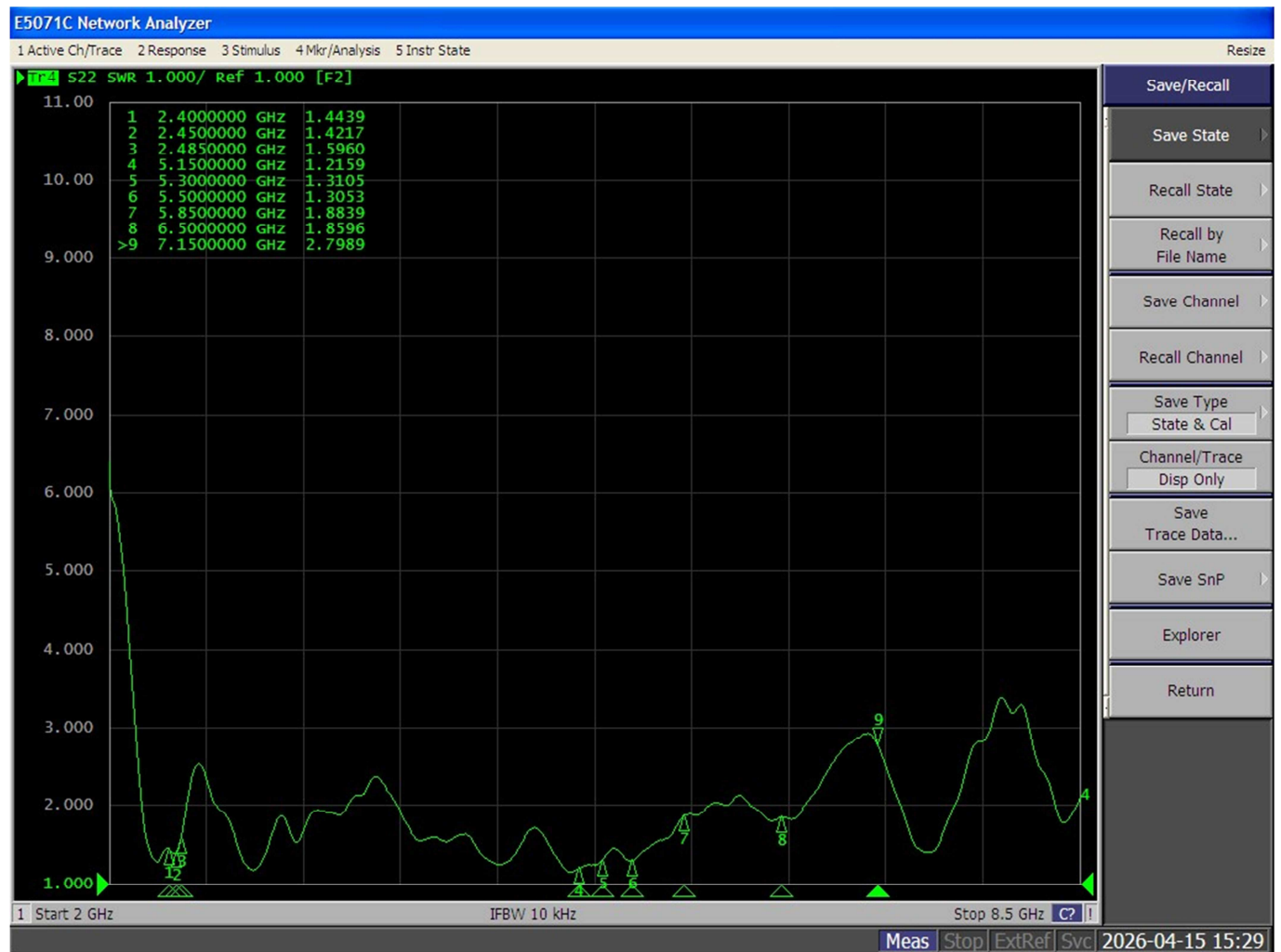
Address: No. 18, Zhongxing S. St., Sanchong Dist., New Taipei City 241017, Taiwan, R.O.C.

Phone Number: +886-2-8511-0288

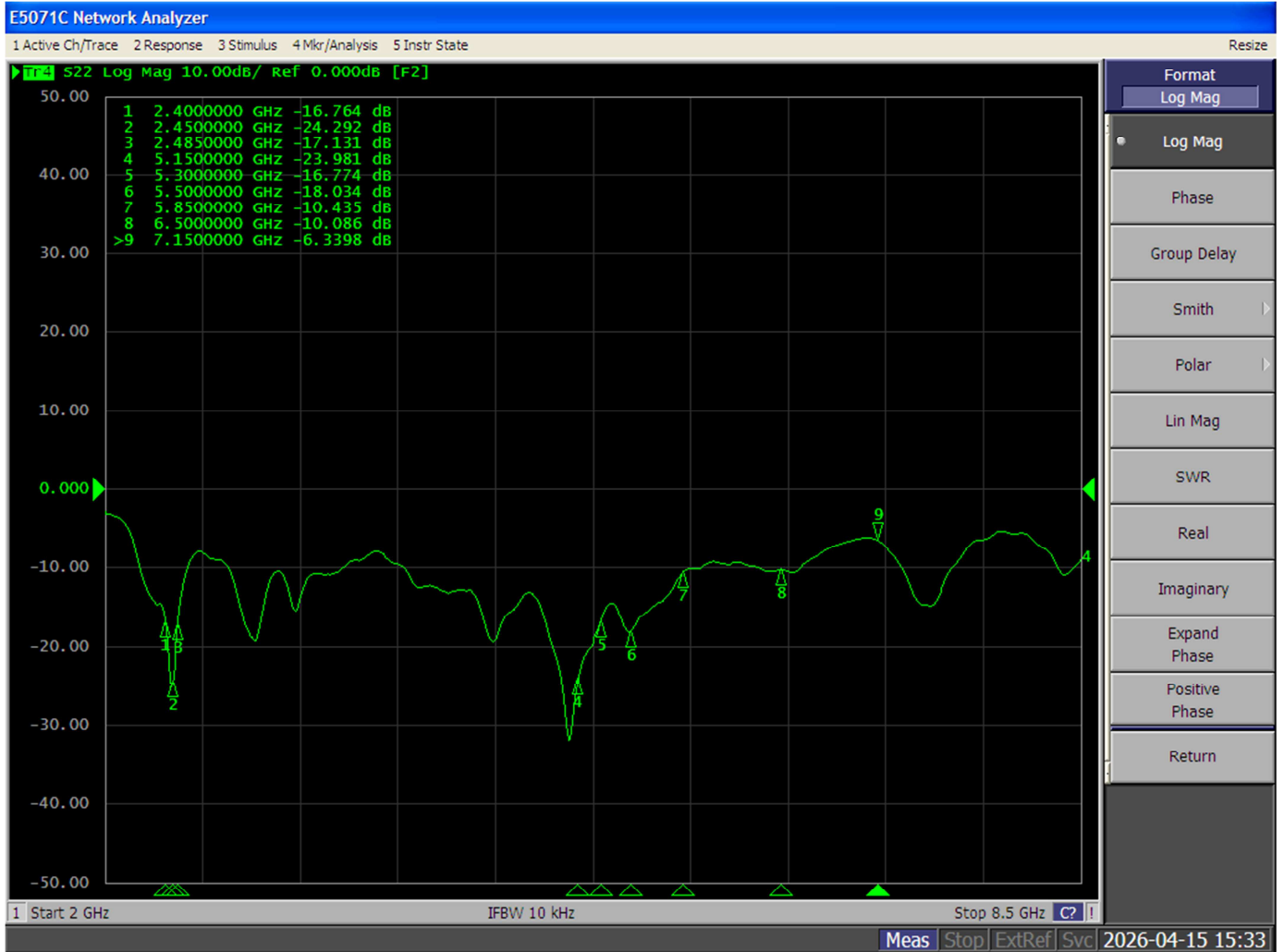
Website: www.winmate.com

3.4. RF Performance Characteristics

3.4.1 SWR



3.4.2 Return Loss



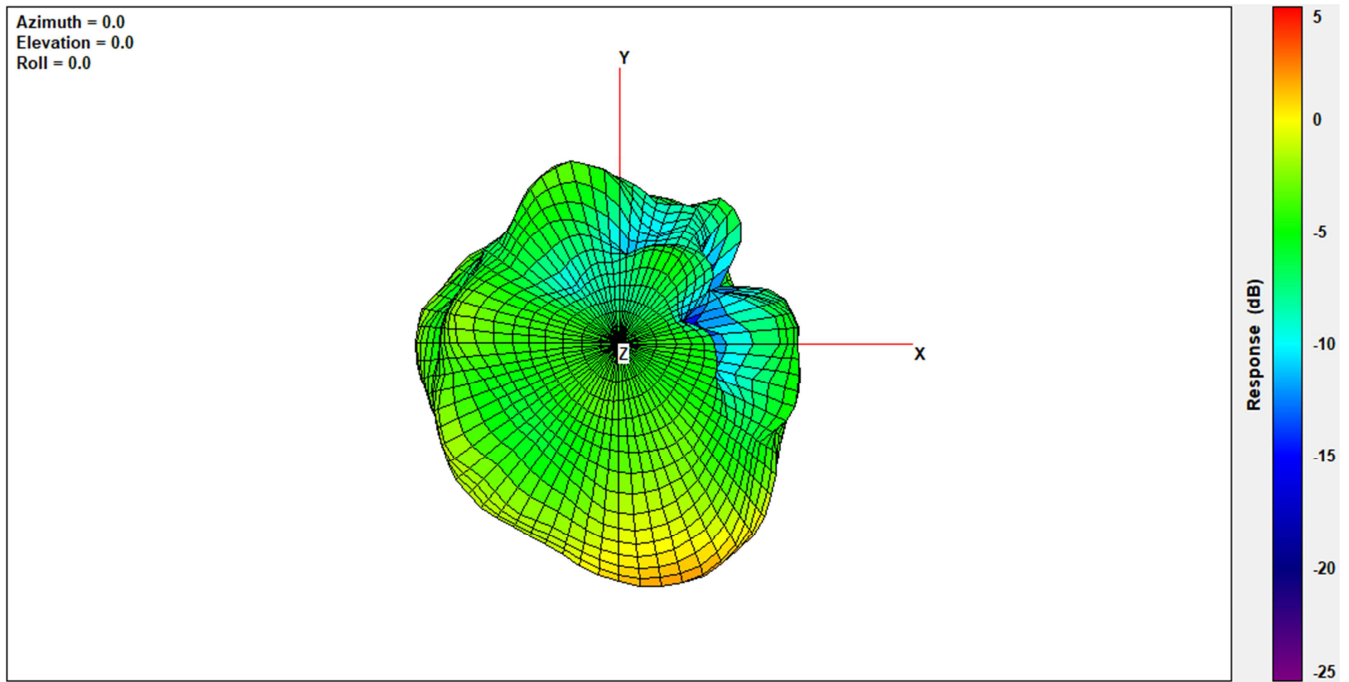
3.4.3. Gain / Efficiency

Frequency	2400	2450	2484	2500	5150	5250	5350	5470	5600	5725
Directivity (dBi)	5.64	5.75	5.62	5.84	5.61	4.79	5.16	5.09	4.98	5.24
Efficiency (dB)	-3.28	-3.73	-4.05	-4.43	-3.00	-2.78	-2.93	-2.86	-2.75	-2.96
Efficiency (%)	47.04	42.35	39.33	36.10	50.15	52.69	50.99	51.77	53.11	50.61
Peak Gain (dBi)	1.36	2.02	1.57	1.42	1.61	2.01	1.84	1.73	1.74	1.88

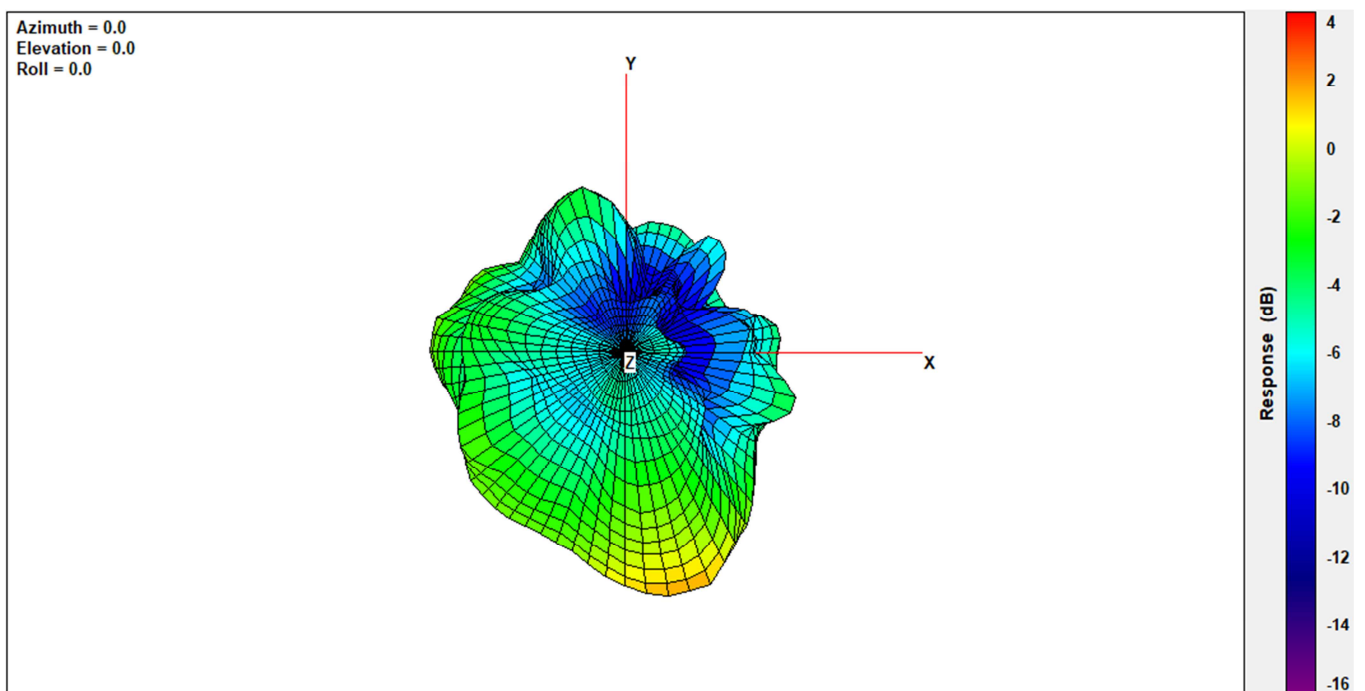
Frequency	5785	5850	5895	5925	6000	6125	6225	6325	6425	6525
Directivity (dBi)	5.48	5.46	5.59	5.72	5.42	5.07	5.37	5.76	5.93	6.05
Efficiency (dB)	-2.94	-3.03	-2.48	-2.61	-3.40	-3.60	-2.74	-3.19	-3.91	-3.81
Efficiency (%)	50.79	49.81	56.44	54.78	45.76	43.64	53.22	47.99	40.66	41.62
Peak Gain (dBi)	1.54	1.44	2.10	2.10	1.63	1.47	1.63	1.58	1.52	1.74

Frequency	6625	6725	6875	6925	7000	7125				
Directivity (dBi)	6.24	5.41	6.58	6.86	6.56	6.62				
Efficiency (dB)	-4.01	-4.18	-4.57	-5.51	-4.84	-5.40				
Efficiency (%)	39.70	38.23	34.95	28.12	32.84	28.87				
Peak Gain (dBi)	1.72	1.23	2.02	1.35	1.73	1.23				

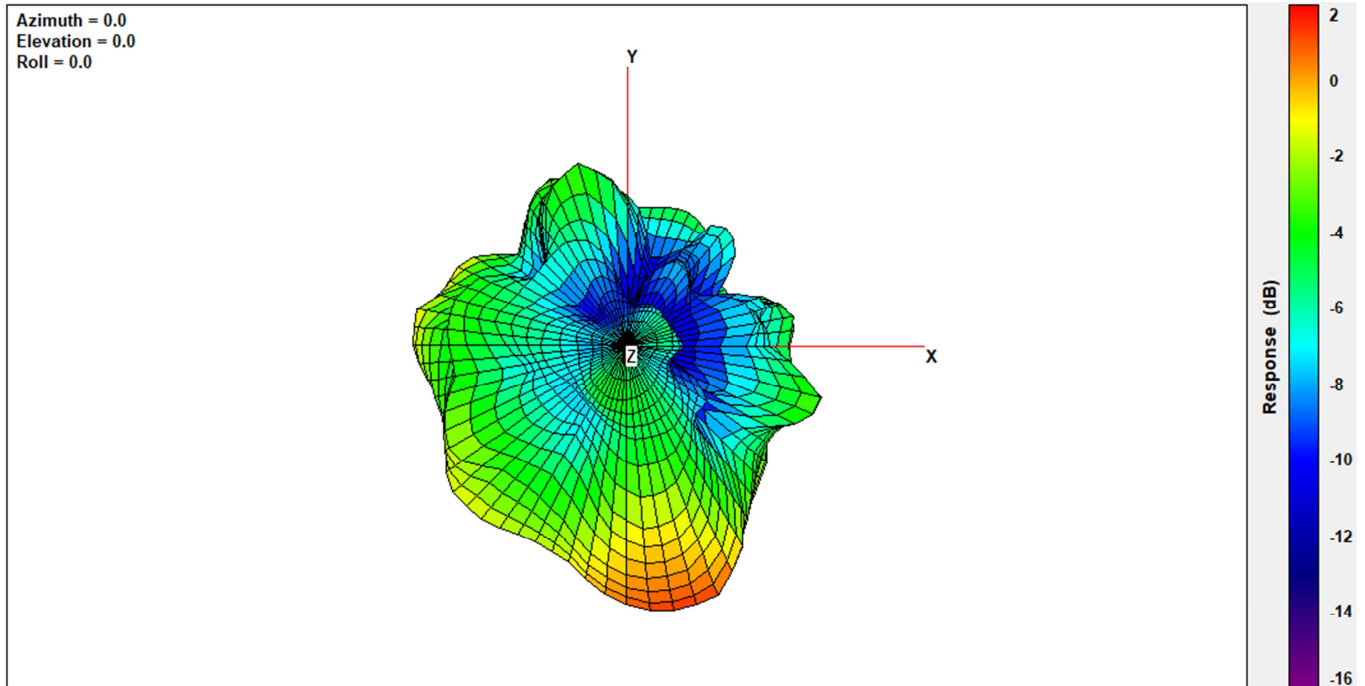
2400MHz



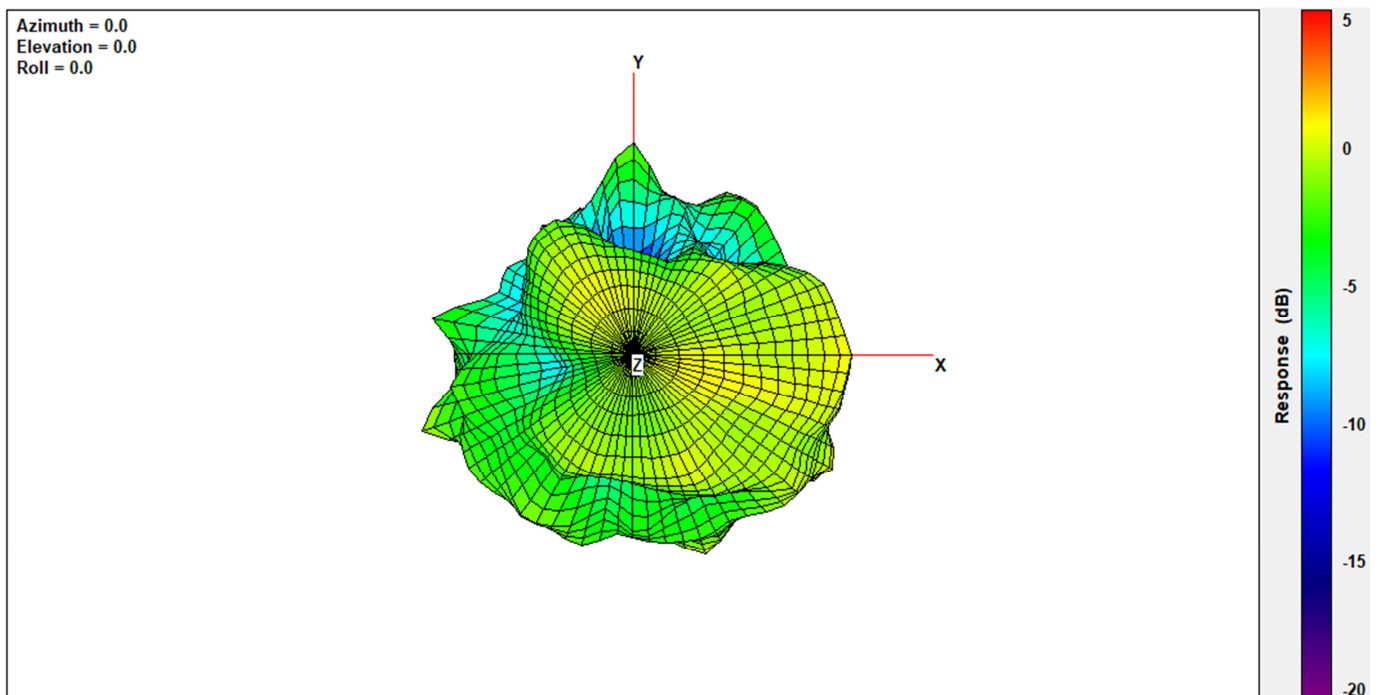
2450MHz



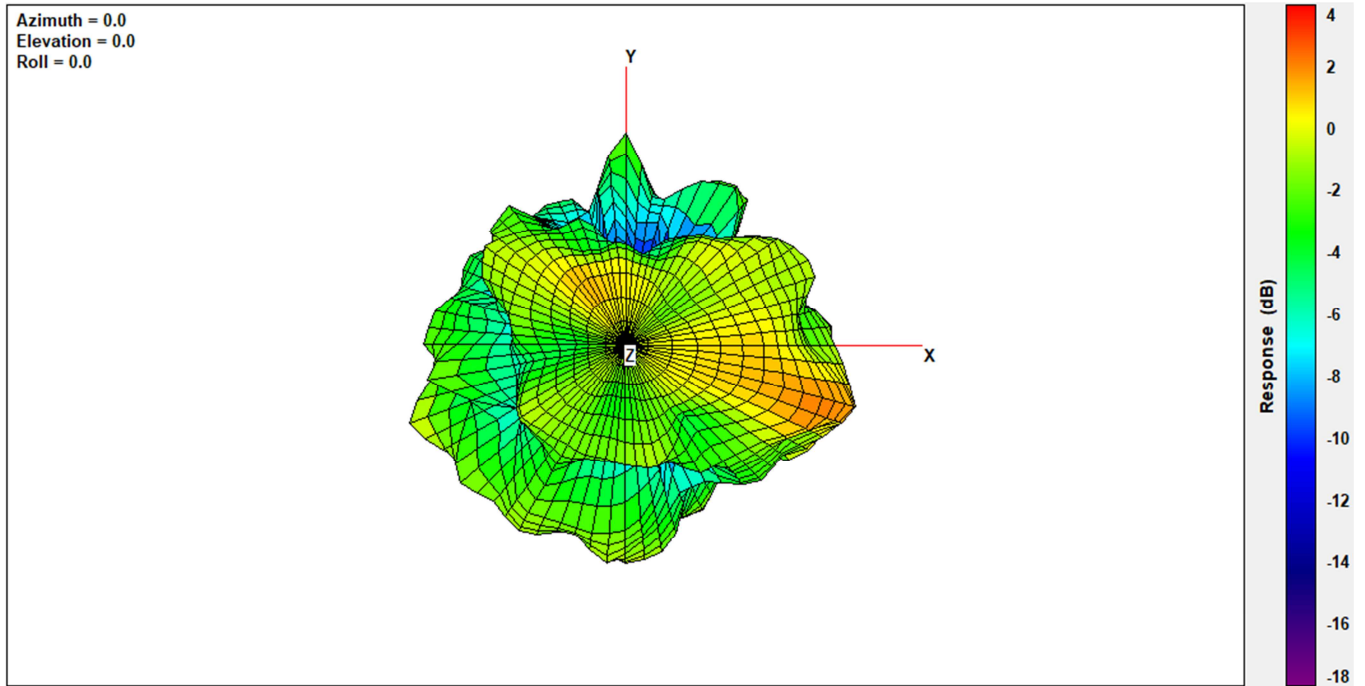
2483MHz



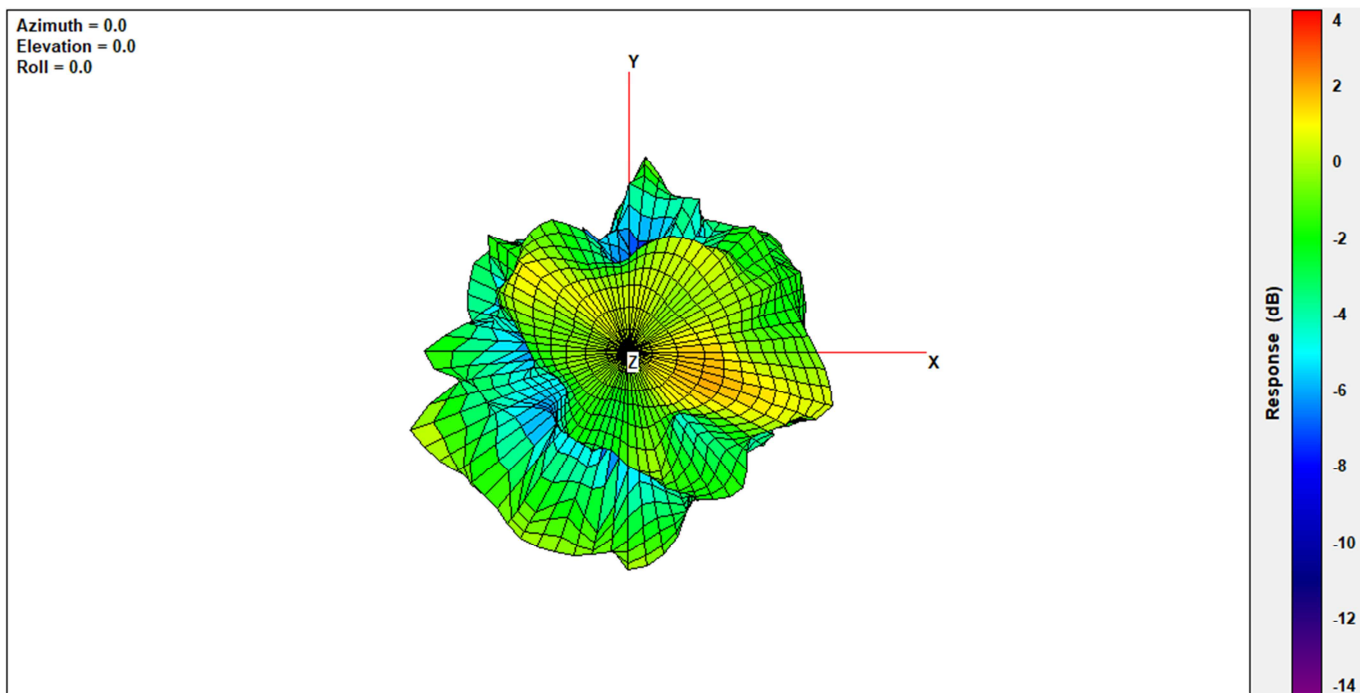
5150MHz



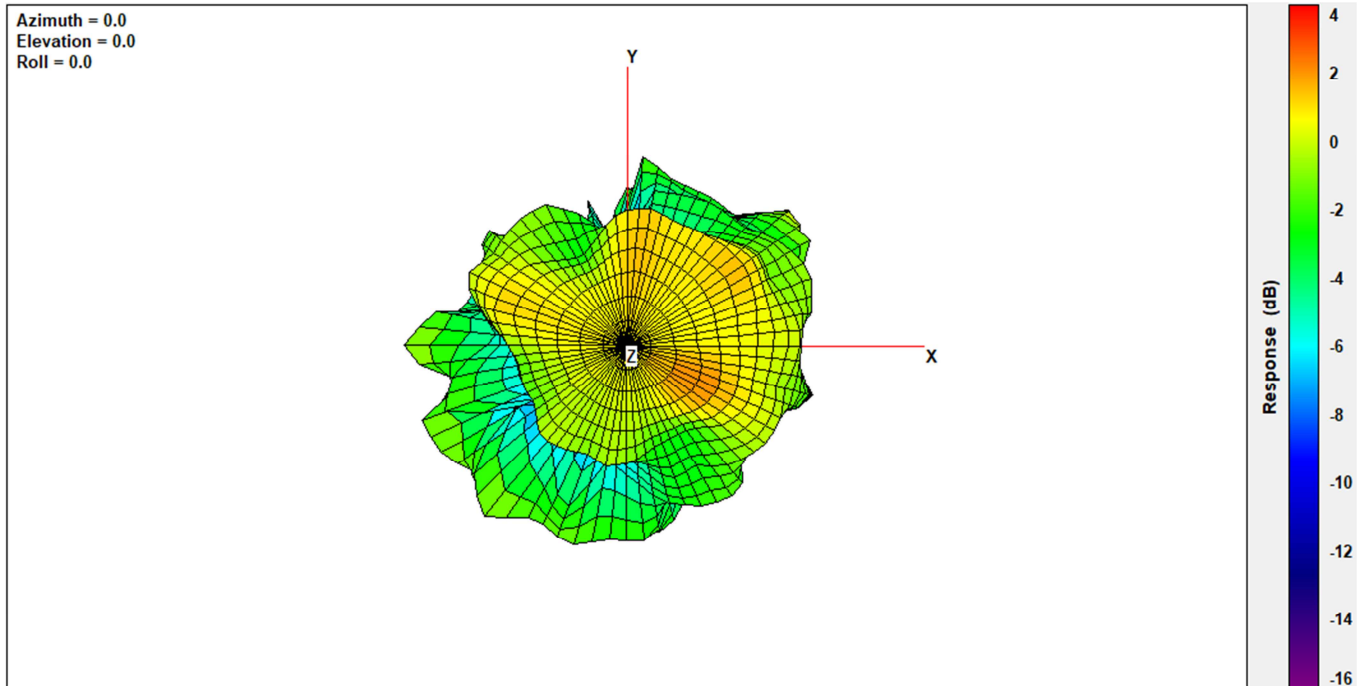
5350MHz



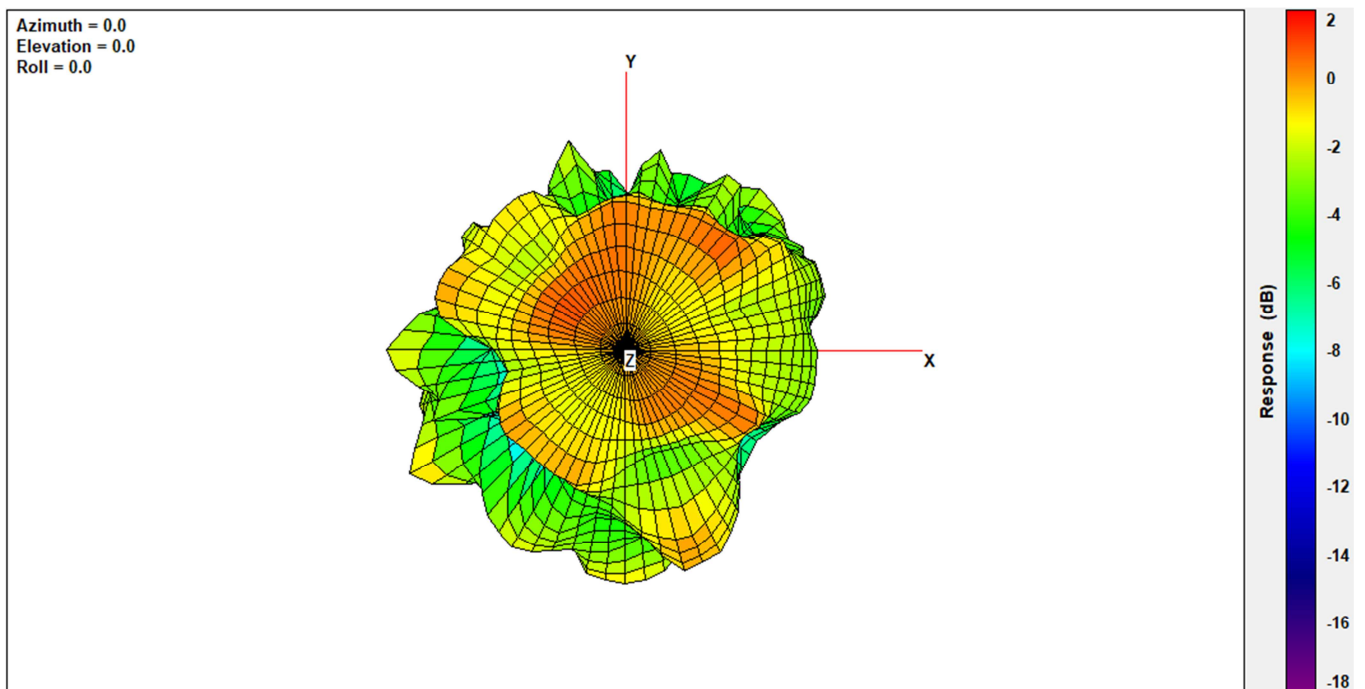
5600MHz



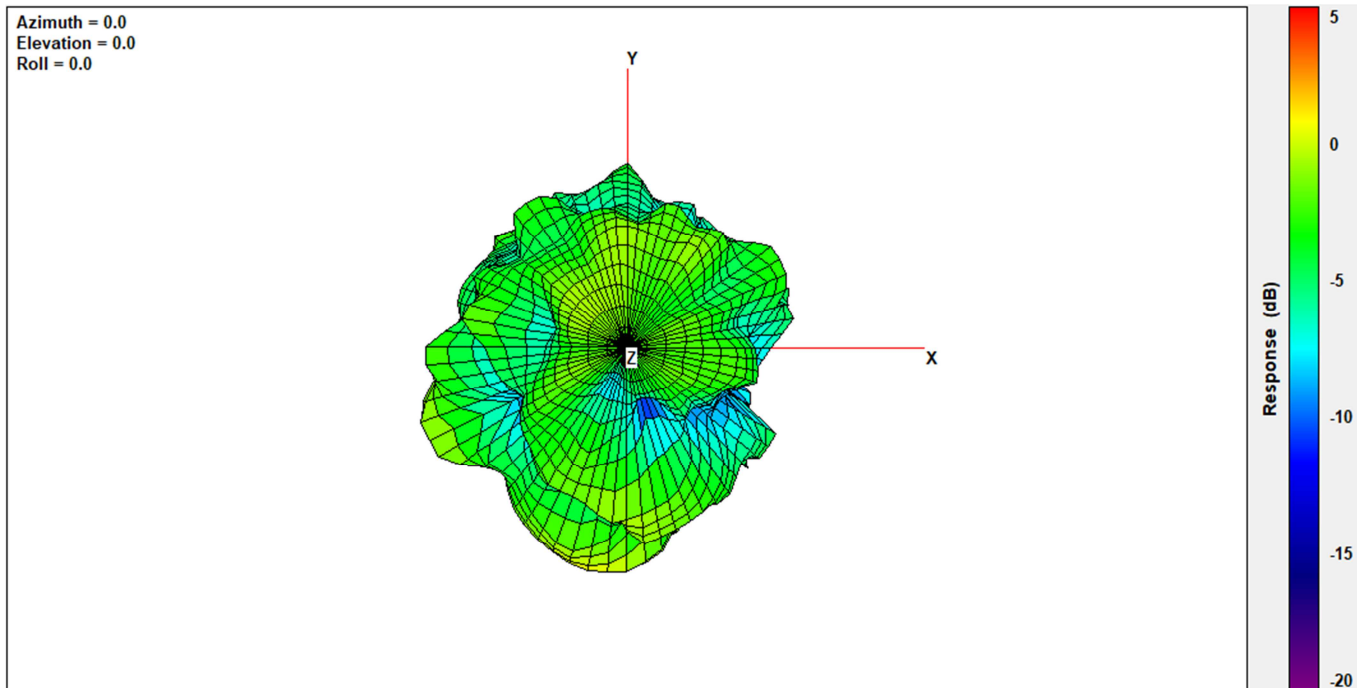
5850MHz



6125MHz



6525MHz



7125MHz

