

1. General Antenna Information

Bluetooth

Antenna Type	Trace Antenna in Base Station PCBA
Manufacturer	Medtronic
Model Number	NA PCBA Number: M059772C001 GL PCBA Number: M059777C001
Antenna Gain	5.0 dBi
Polarization	Linear

Wi-Fi

Antenna Type	Metal Stamped
Manufacturer	TE Connectivity
Model Number	2108964-1
Antenna Gain (2.4 GHz)	4.1 dBi
Antenna Gain (5 GHz)	4.7 dBi
Polarization	Linear

Cellular

Antenna Type	PCB
Manufacturer	TE Connectivity
Model Number	2118310-1
Antenna Gain (698-960 MHz)	3.2 dBi
Antenna Gain (1710-2170 MHz)	4.1 dBi
Antenna Gain (2300-2700 MHz)	5.8 dBi
Polarization	Linear

Inductive

Antenna Type	Coil Assembly in Telemetry Head
Manufacturer	Medtronic
Model Number	Upper: M027333C Lower: M027334C
Antenna Gain	NA
Polarization	NA

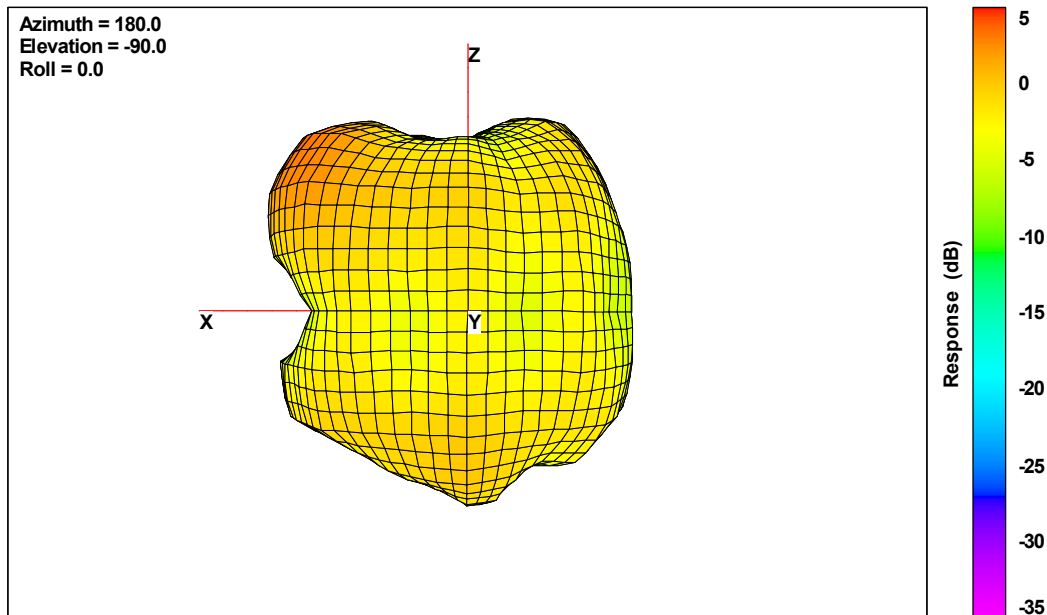
3. Antenna Plots

Source:

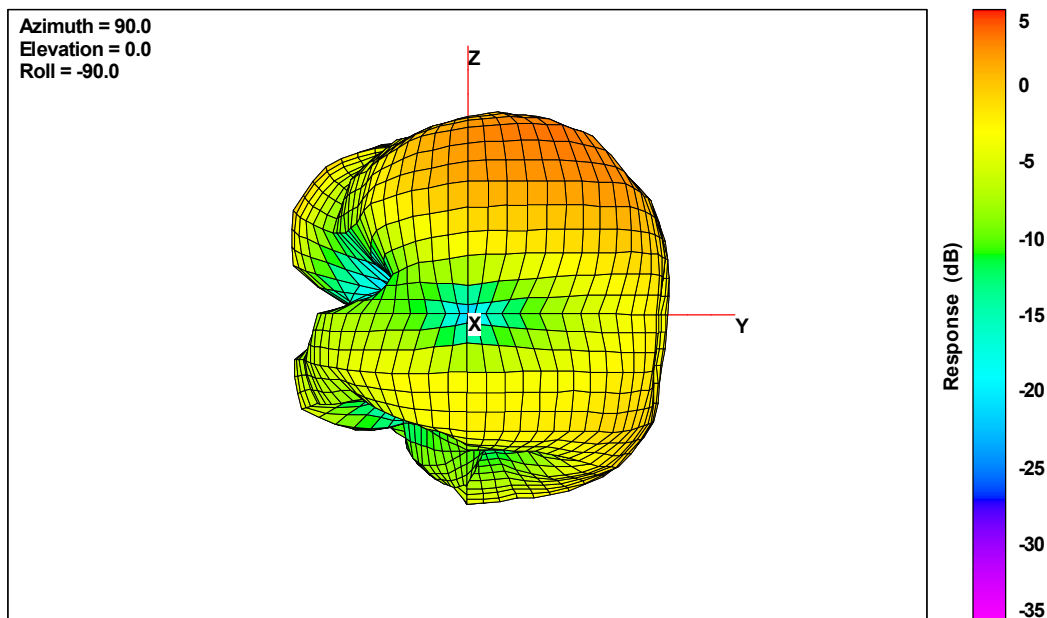
- MDT30844062 OTA Test Data 2024-12-23
- MDT30844082 Passive OTA_2025-08-22

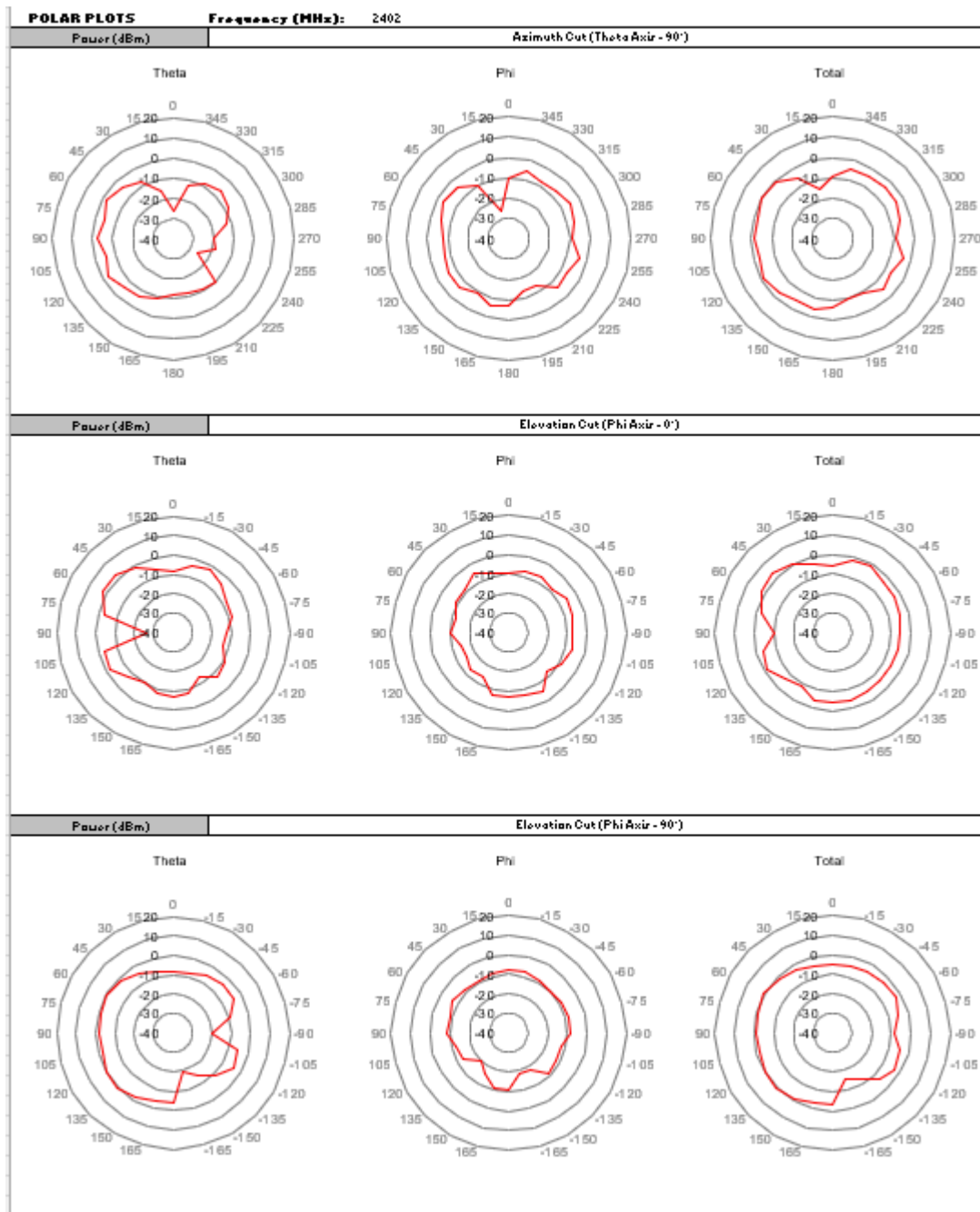
BLE

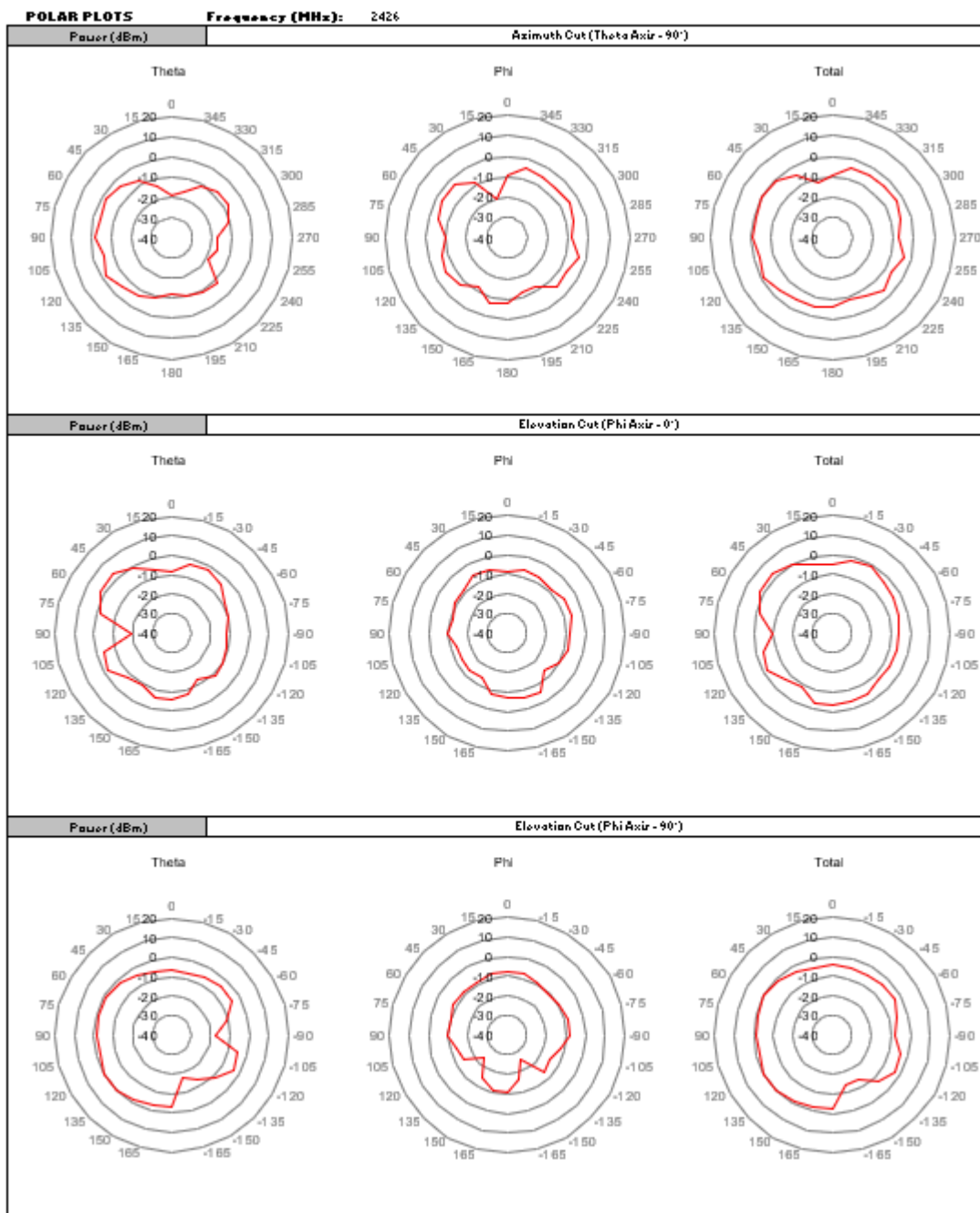
Theta Log Magnitude

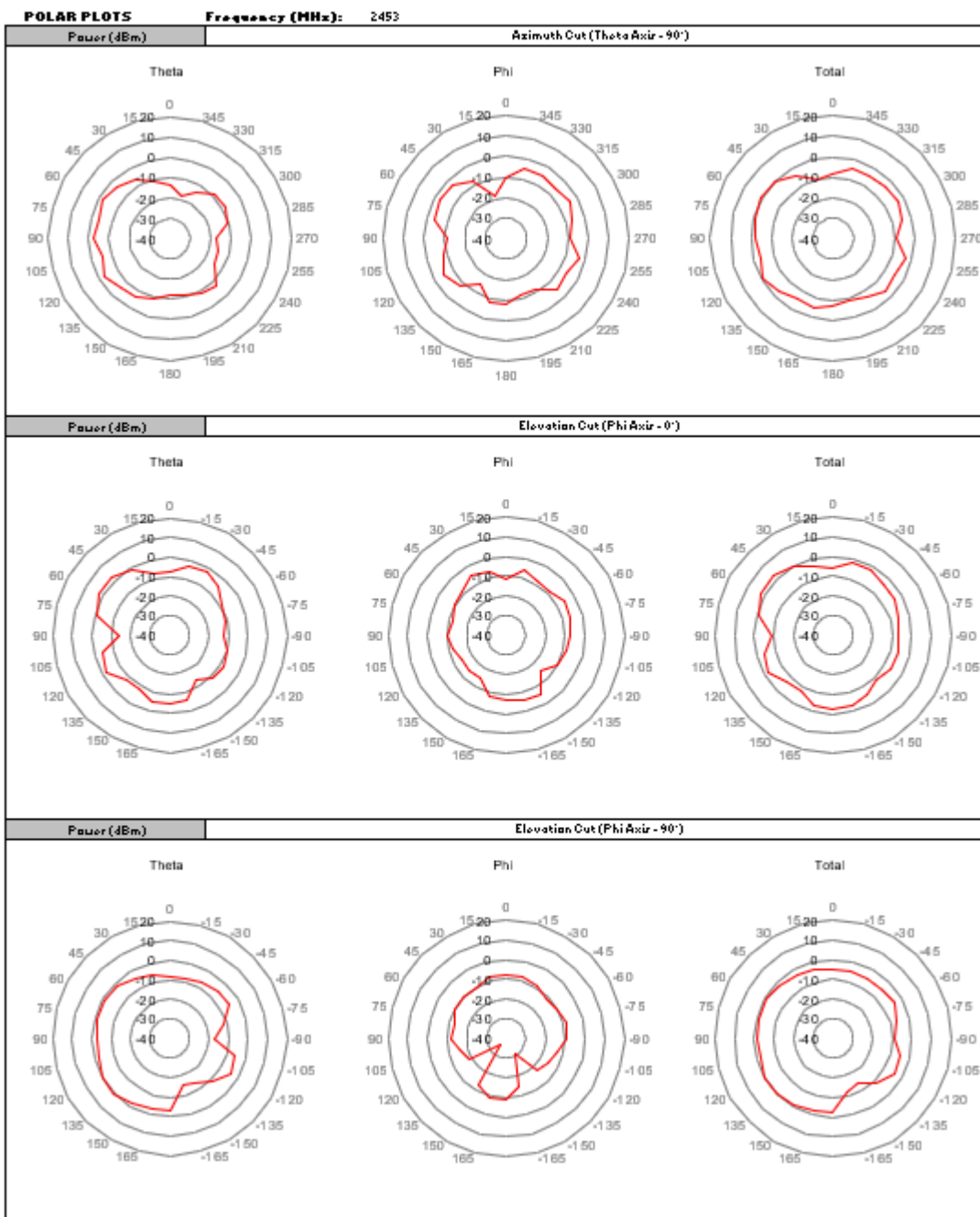


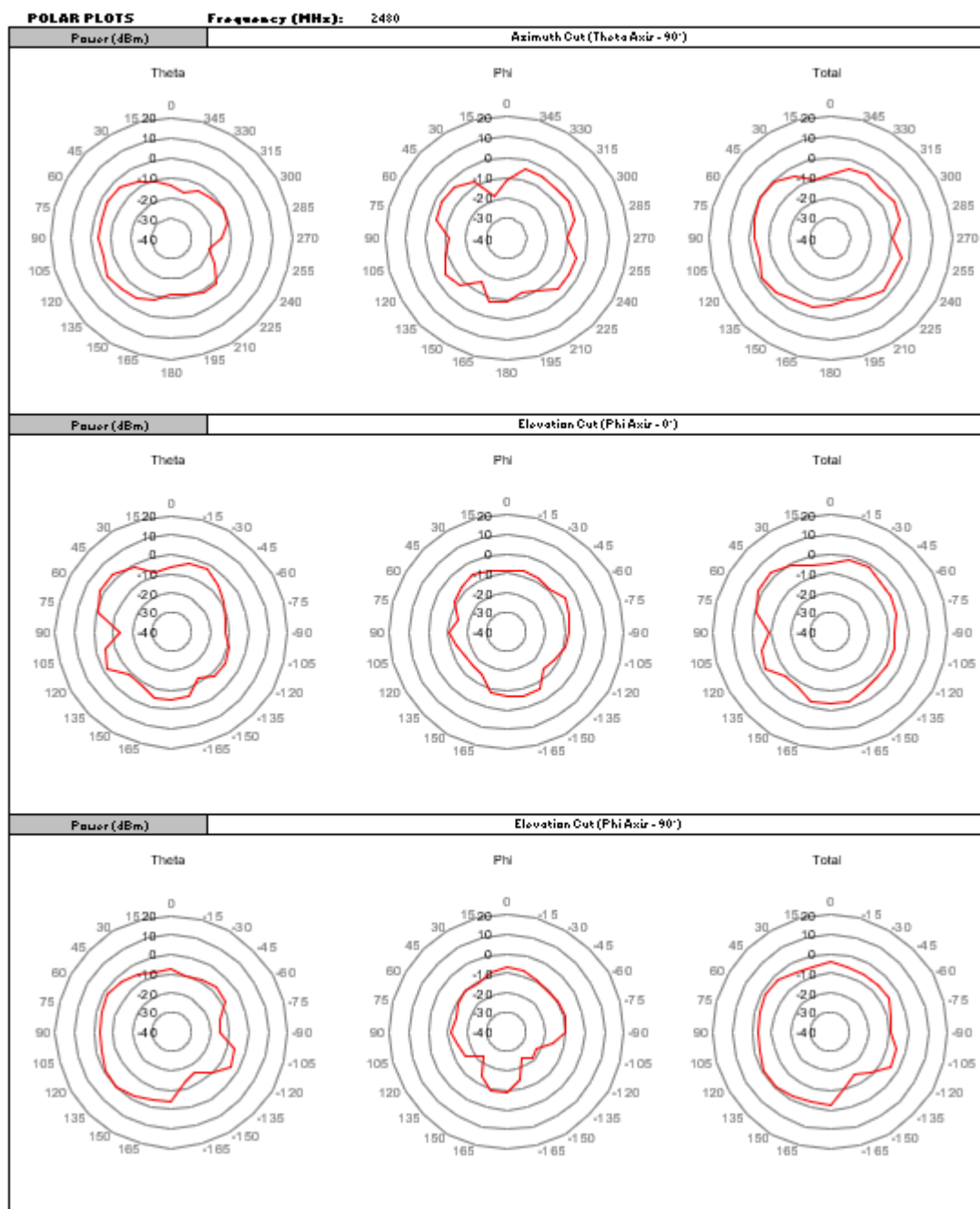
Theta Log Magnitude







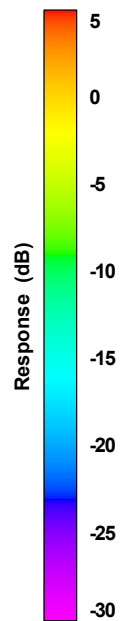
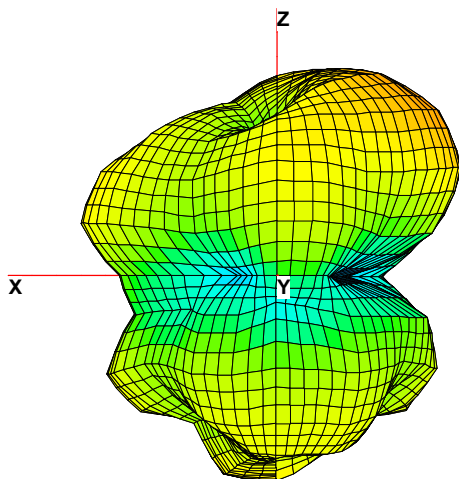




Wi-Fi

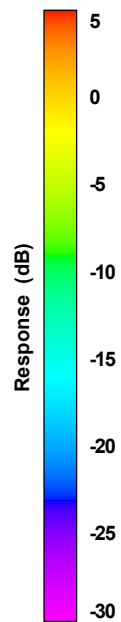
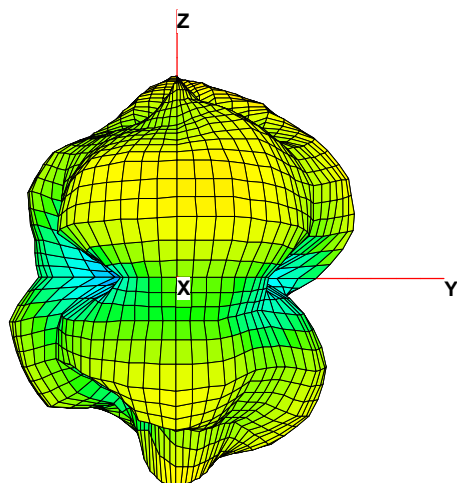
Theta Log Magnitude

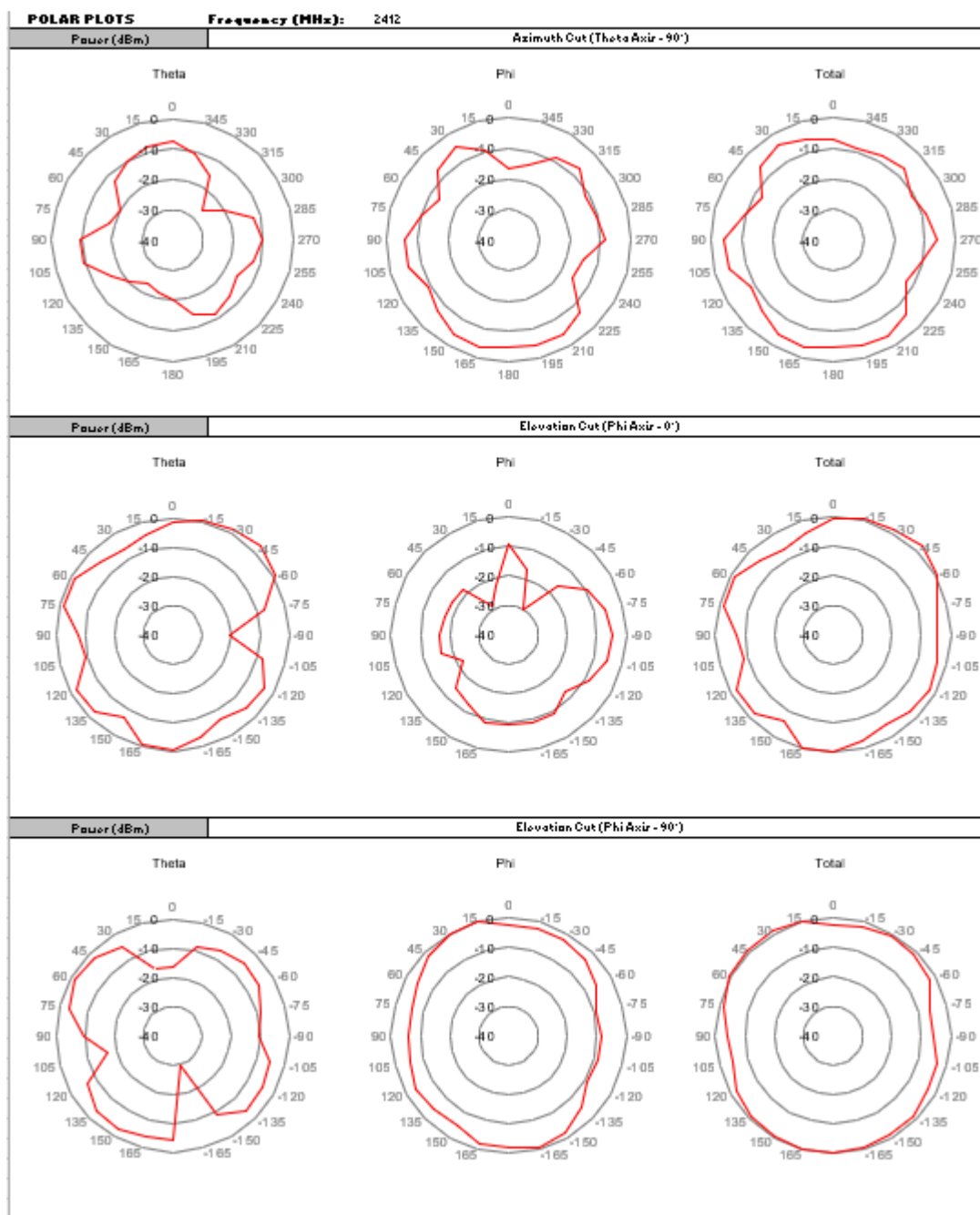
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Roll = 0.0



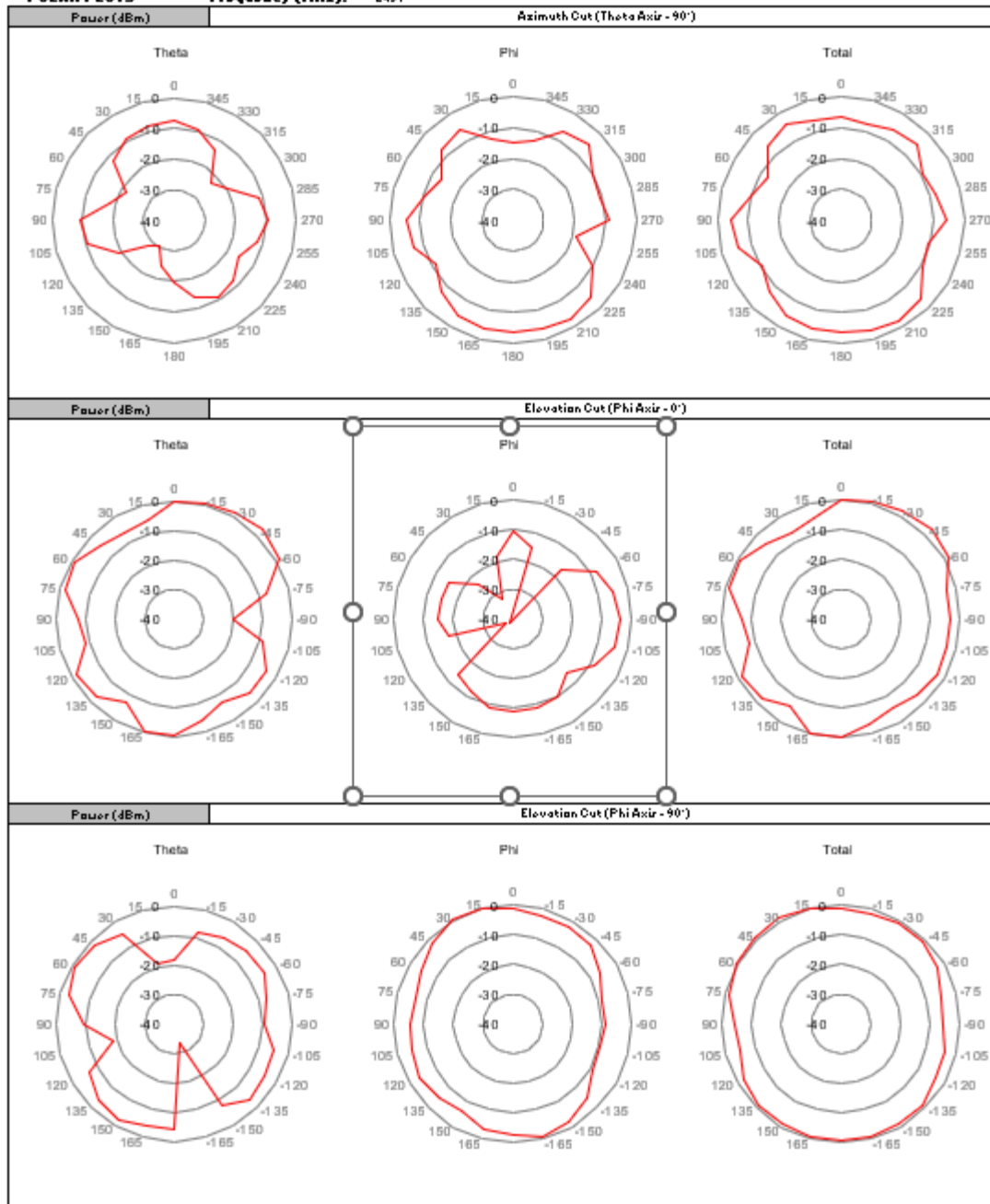
Theta Log Magnitude

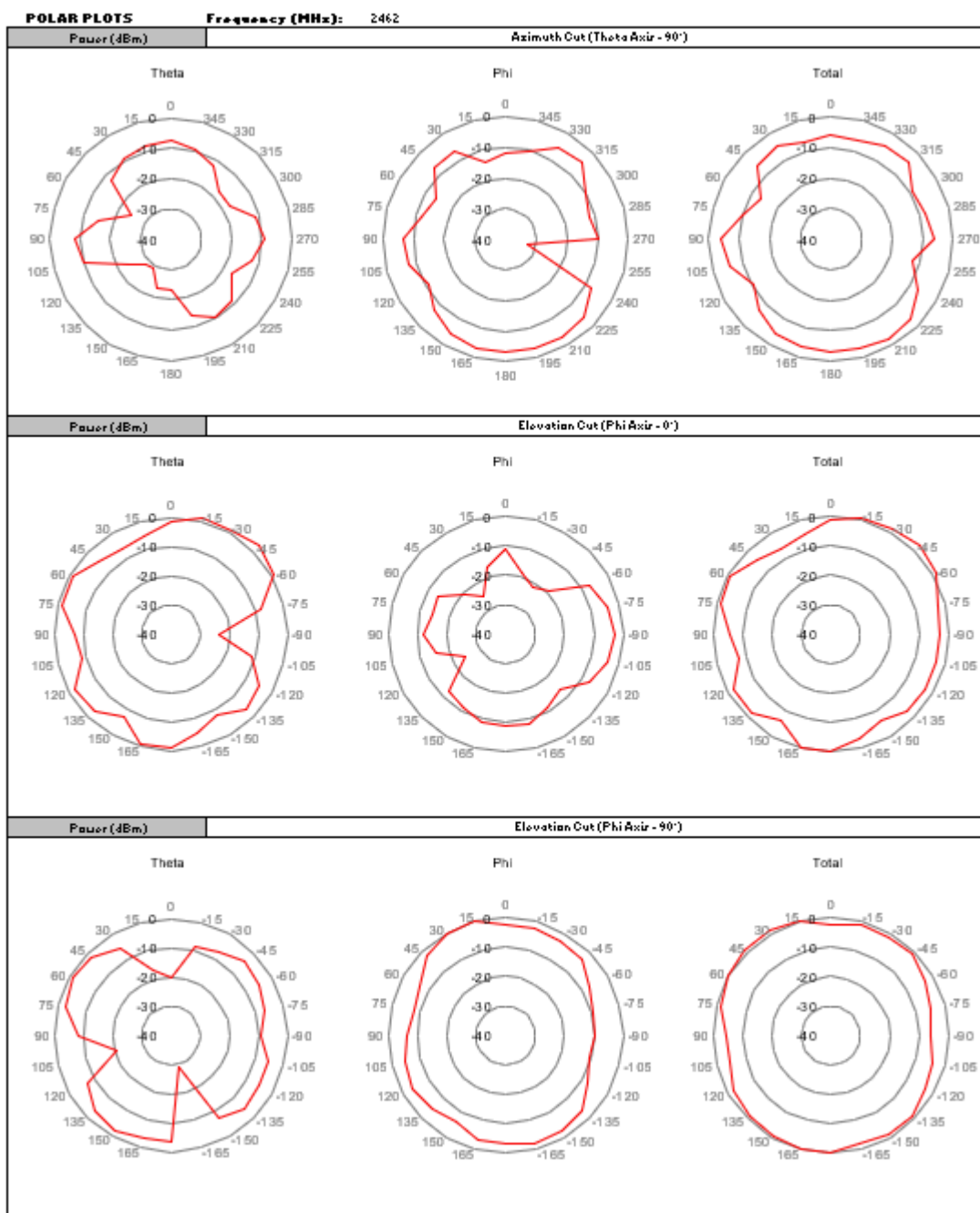
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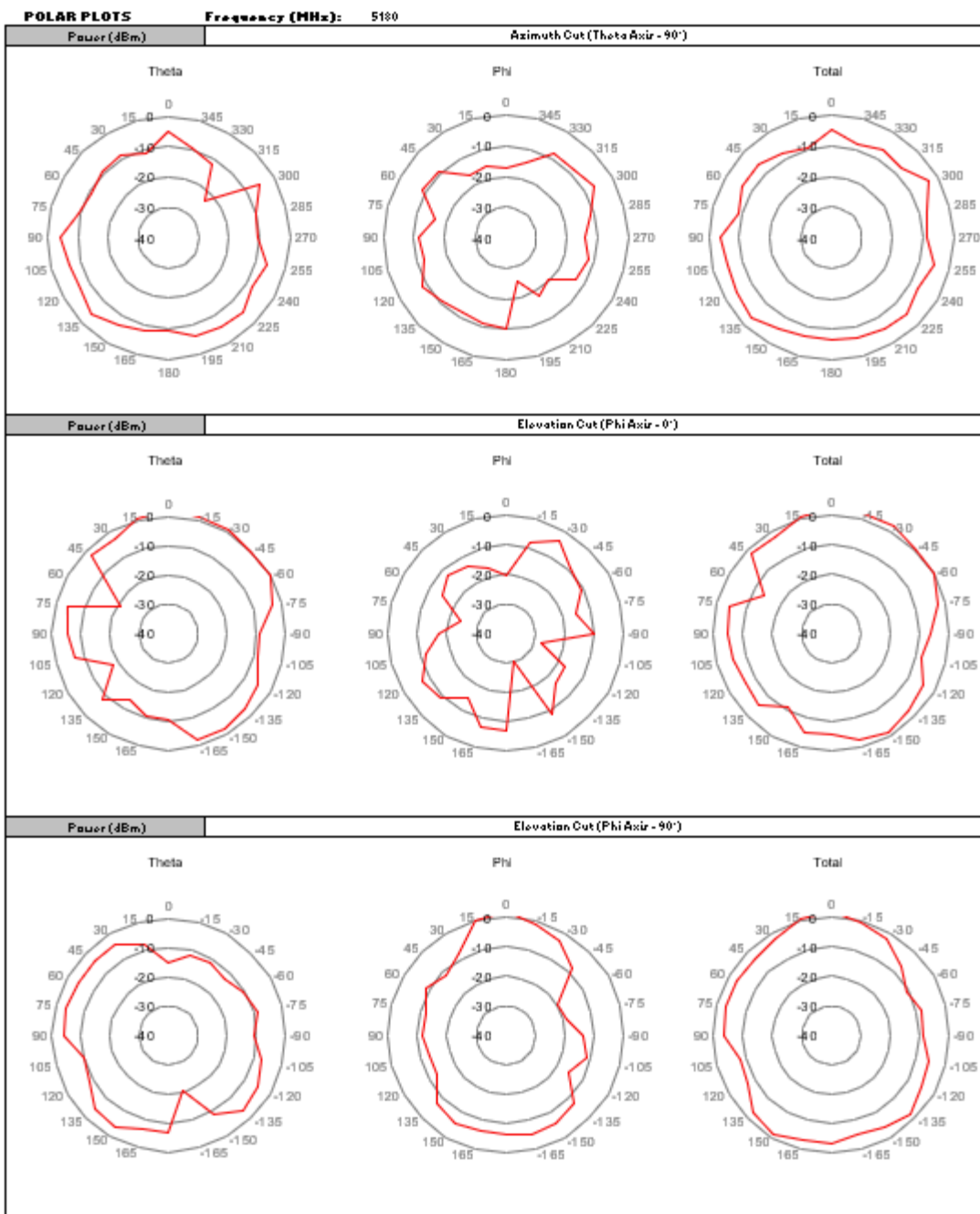


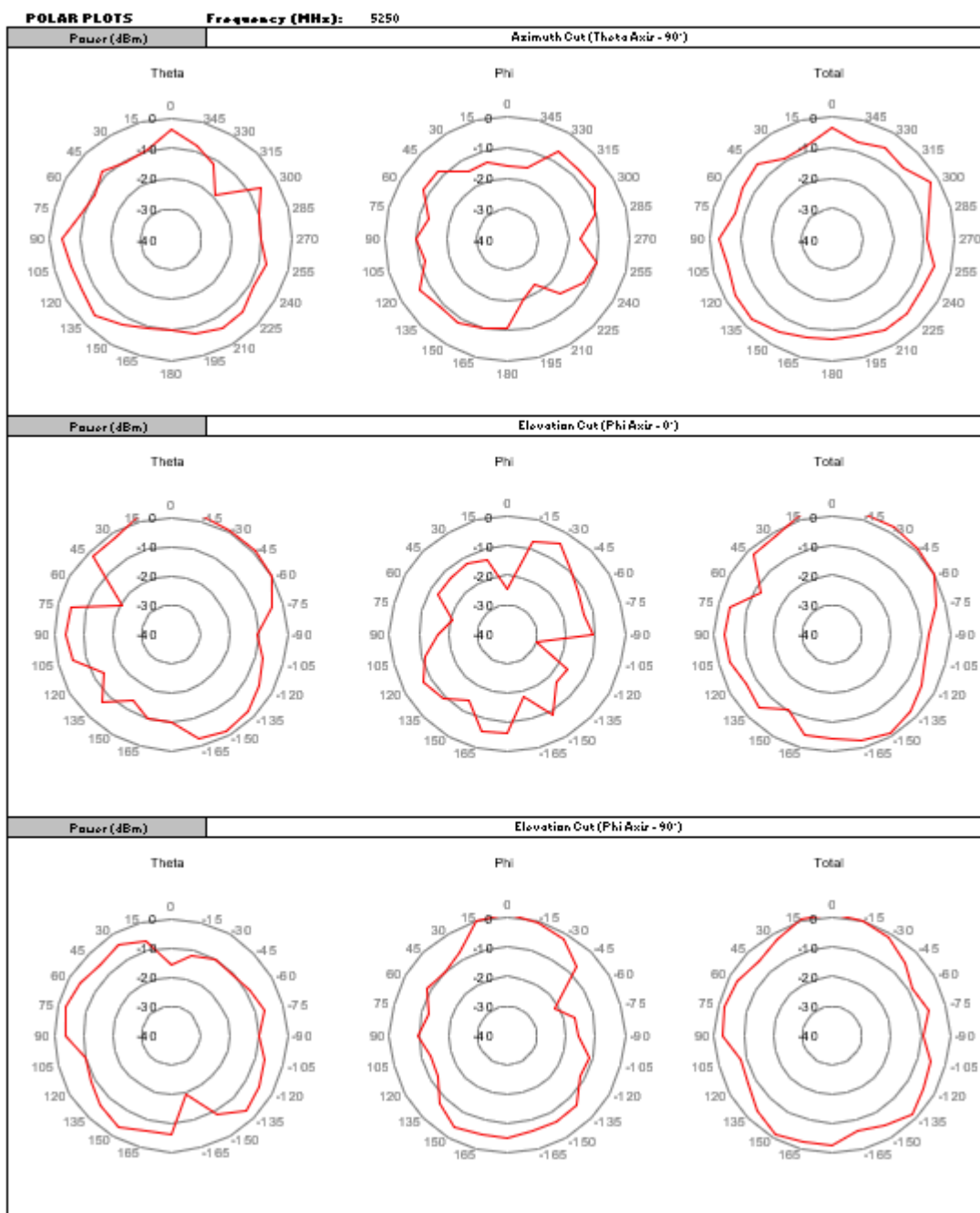


POLAR PLOTS Frequency (MHz): 2437

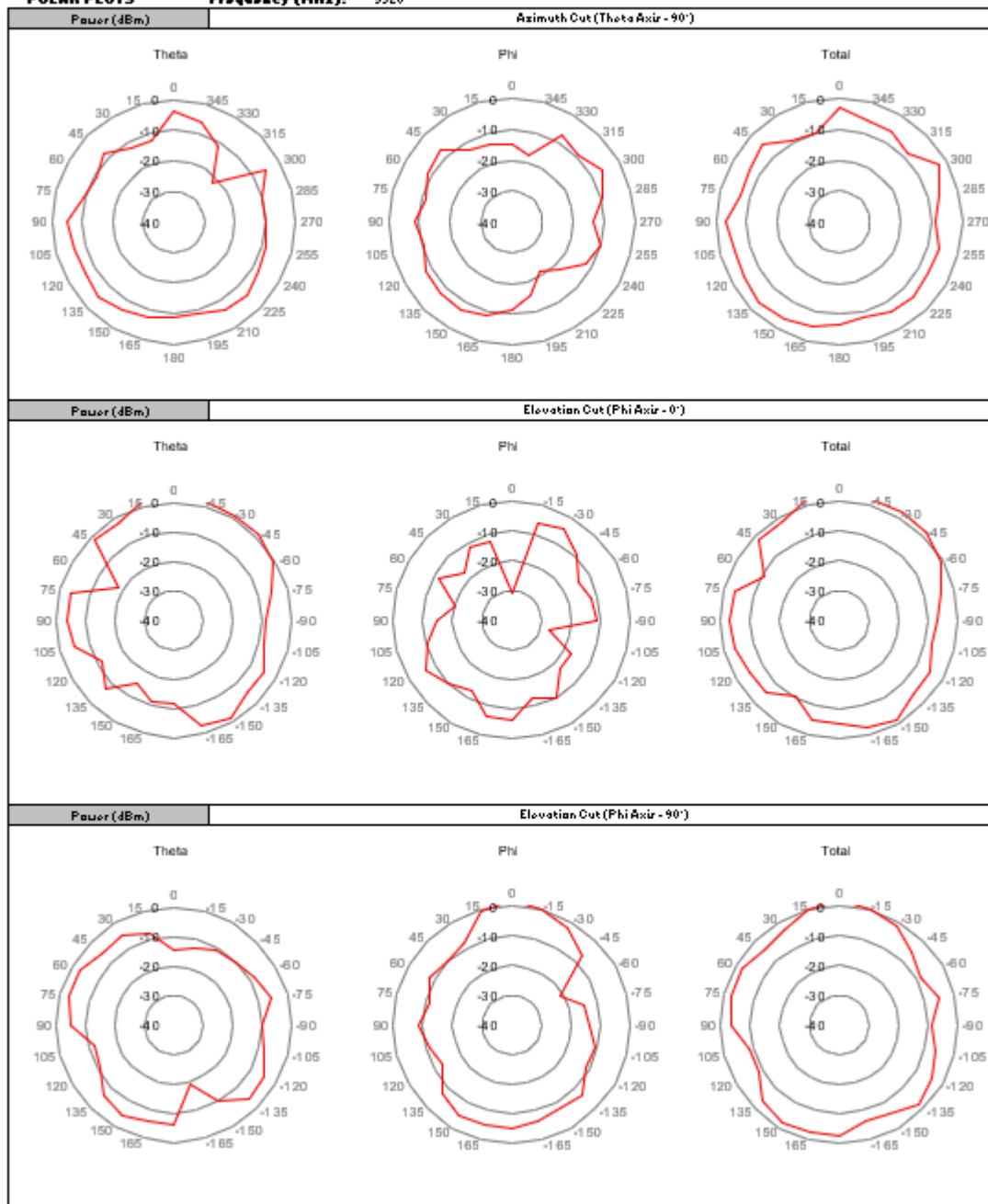








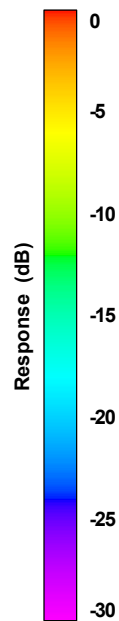
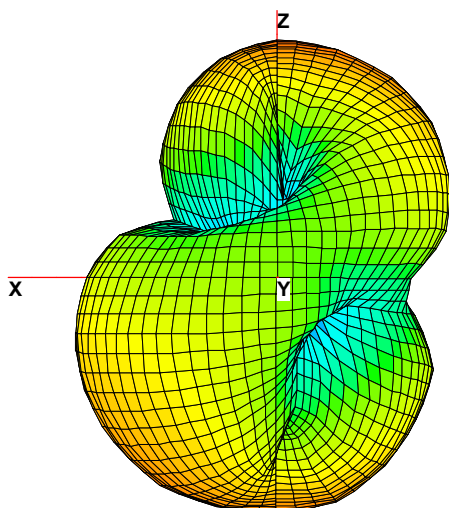
POLAR PLOTS Frequency (MHz): 5320



Cellular

Theta Log Magnitude

Azimuth = 180.0
Elevation = -90.0
Roll = 0.0



Theta Log Magnitude

Azimuth = 90.0
Elevation = 0.0
Roll = -90.0

