Antenna Measurement Report

Model	:	bt2
Manufacture	:	
Series Number	:	QTKOTAPR00297
Antenna Type	:	
Date	:	

Test Laboratory:

Name: Linkou Laboratory

Address: No. 5-22 Rueishu Keng, Rueiping Tsuen, Linkou Shiang,Taipei County 244,Taiwan, R.O.C.

CONTENT

1. General Information

1.1. Applied Reference Documents

The Equipment Under Test (EUT) has been tested at <Laboratory Name> according to the leading reference document in below table.

No.	Identity	Document Title	Version/Date
1	Std 149	IEEE Standard Test Procedures for Antenna	1979

1.2. List of Test Equipments

Instrument Description	Calibration Date	Location
Agilent E5071C Network Analyzer	2010.07.26	Linkou Laboratory
MF Switch Box	N/A	Linkou Laboratory
MF Controller	N/A	Linkou Laboratory
Reference Horn Antenna		Linkou Laboratory

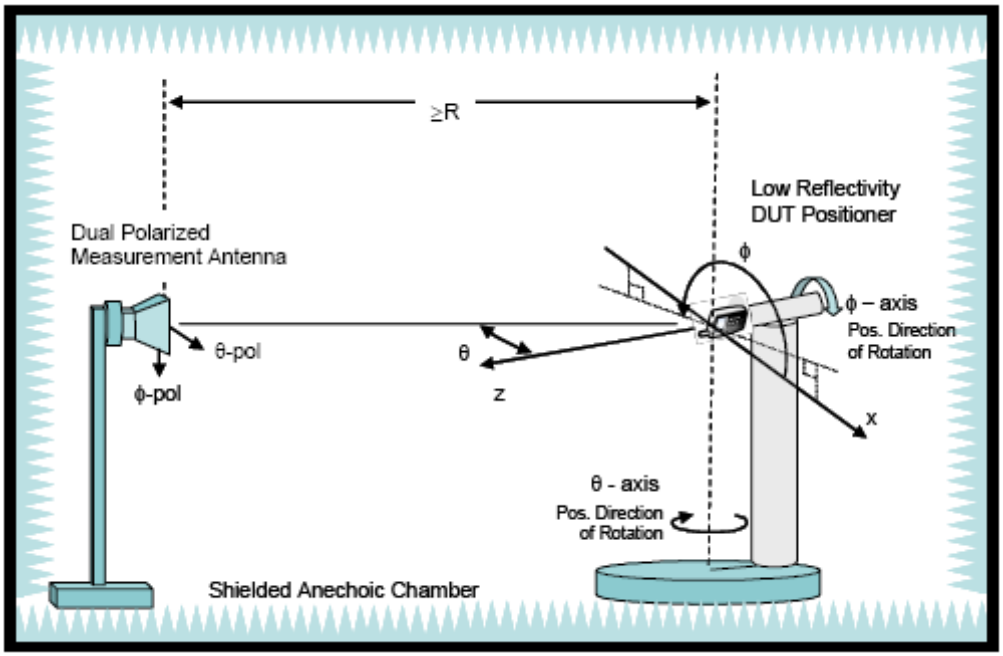
1.3. Description

Measurement date	
Measurement software version	2.00
Model	bt2
Manufacture	
Antenna Type	
EUT Description	20120711-1411

1.4. Test Setup

EUT coordinate systems of the previous sections will apply independent of the physical orientations of the EUT inside the chamber.

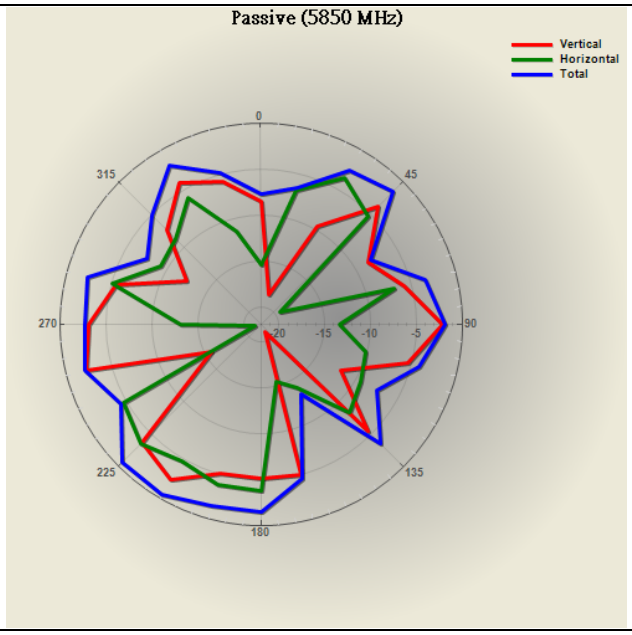
The figure shows the typical setup using a combined axis system. In addition to the pictured Theta axis rotation, the EUT will have to be rotated about the Z-axis (Phi rotation) in order to perform the full spherical scans.

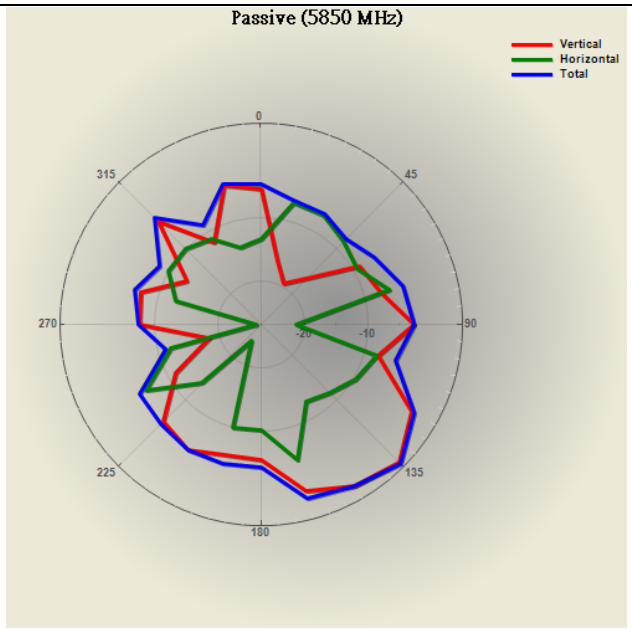

≥R
Low Reflectivity
DUT Positioner
Dual Polarized
Measurement Antenna
ϕ
ϕ – axis
Pos. Direction
of Rotation
θ-pol
θ
ϕ-pol
z
x
θ - axis
Pos. Direction
of Rotation
Shielded Anechoic Chamber

2. Summary

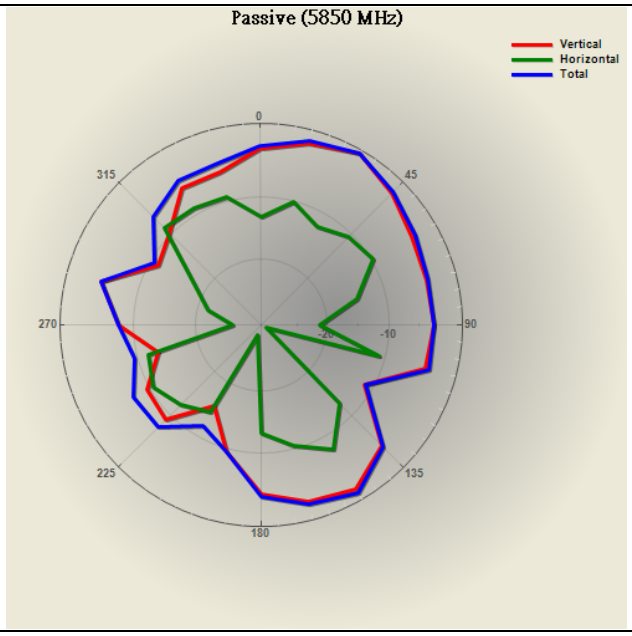
Frequency (MHz)	Max power (dBm)	Min. power (dBm	Total Radiated Power (dBm)	NHPRP +/-45 (dBm)	NHPRP +/-30 (dBm	Directivity (dBi)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2402	2.75	-32.05	-4.13	-4.91	-6.47	6.88	-4.13	38.59	2.75
2442	0.86	-38.46	-4.69	-5.41	-6.62	5.55	-4.69	33.95	0.86
2483	-0.87	-34.47	-5.12	-5.84	-6.98	4.25	-5.12	30.75	-0.87
5150	-2.08	-33.58	-7.06	-7.84	-8.74	4.98	-7.06	19.69	-2.08
5350	0.67	-35.77	-5.95	-7.03	-8.22	6.61	-5.95	25.42	0.67
5470	1.32	-33.05	-6.58	-7.86	-9.12	7.90	-6.58	21.96	1.32
5725	4.57	-34.35	-4.07	-5.72	-7.29	8.63	-4.07	39.18	4.57
5850	5.57	-30.05	-2.97	-4.58	-6.26	8.54	-2.97	50.49	5.57

3. 2D Plots

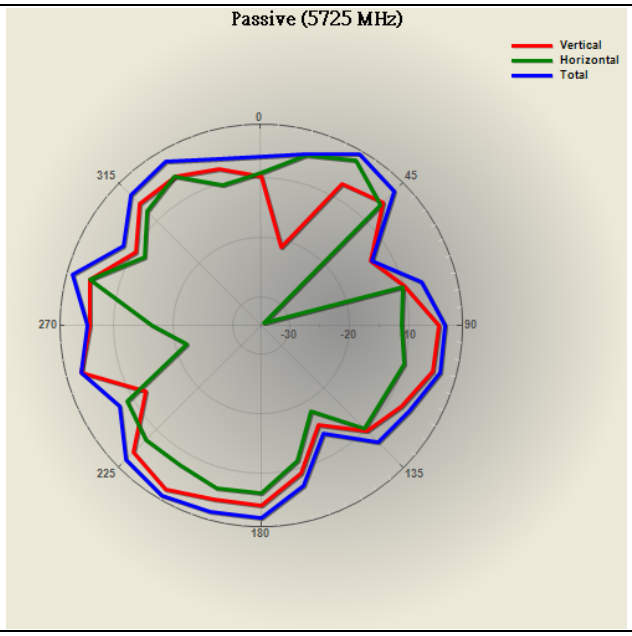
5850.00000 Azimuth 0°


5850.00000 MHz Azimuth 90°


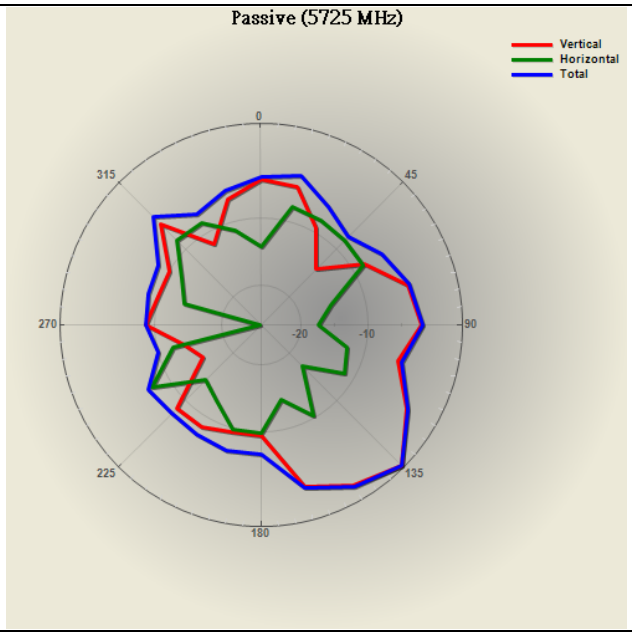
5850.00000 MHz H-Plane (Elevation 90°)



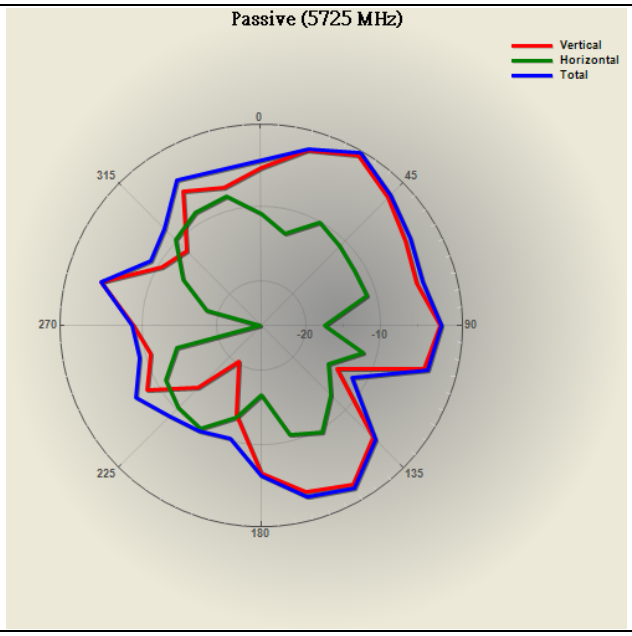
5725.00000 Azimuth 0°



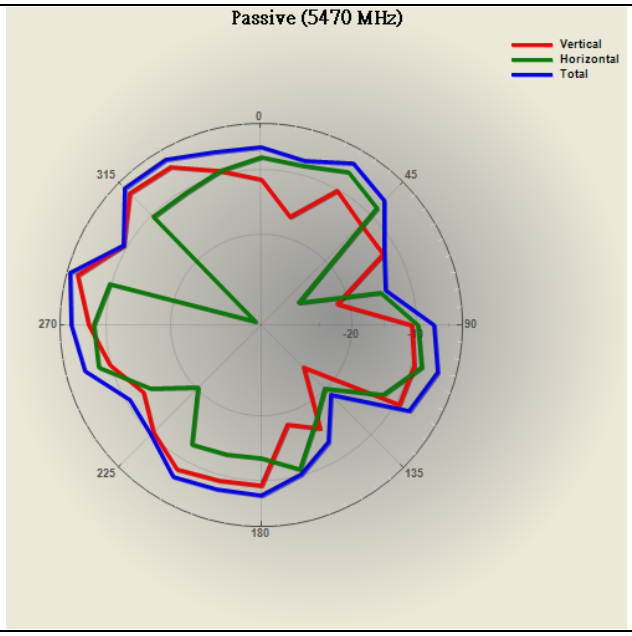
5725.00000 MHz Azimuth 90°



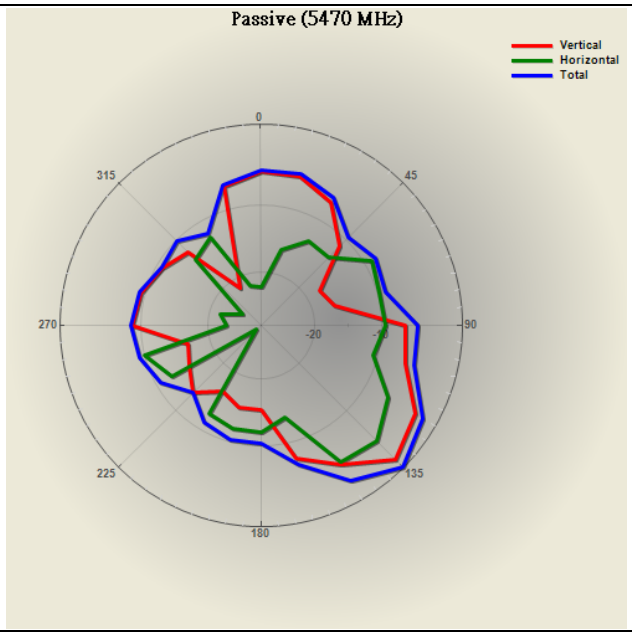
5725.00000 MHz H-Plane (Elevation 90°)



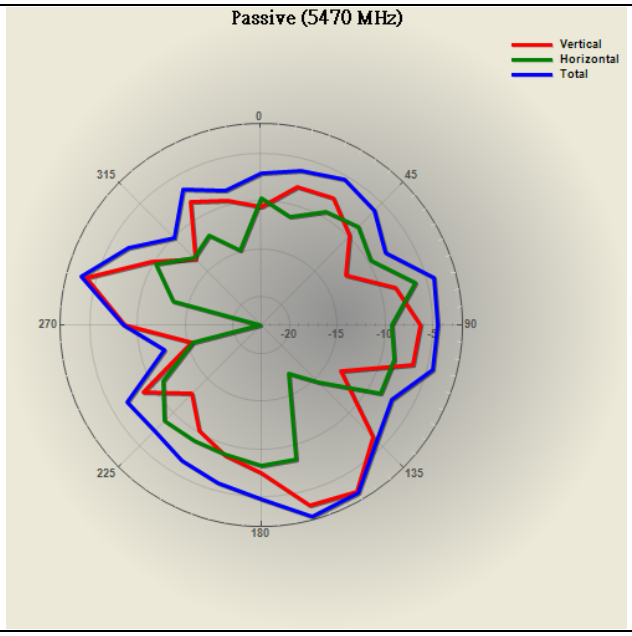
5470.00000 Azimuth 0°



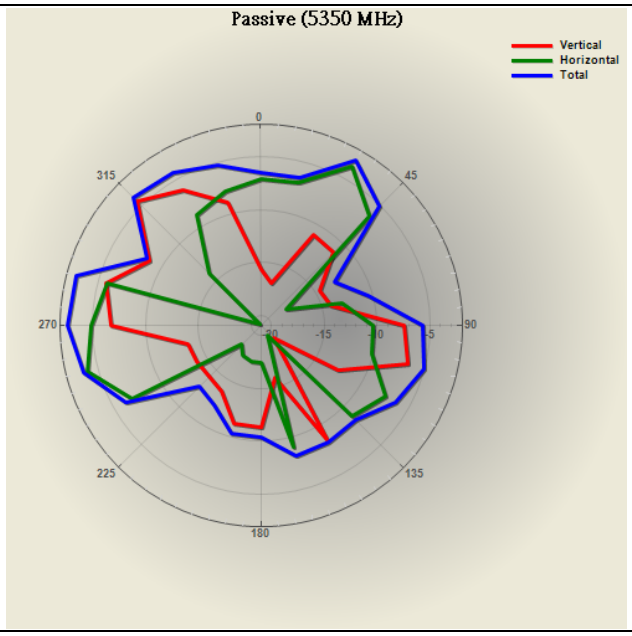
5470.00000 MHz Azimuth 90°



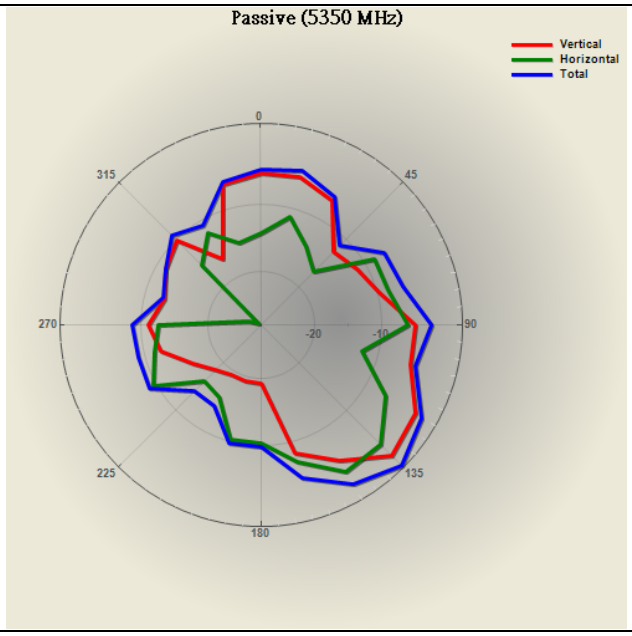
5470.00000 MHz H-Plane (Elevation 90°)



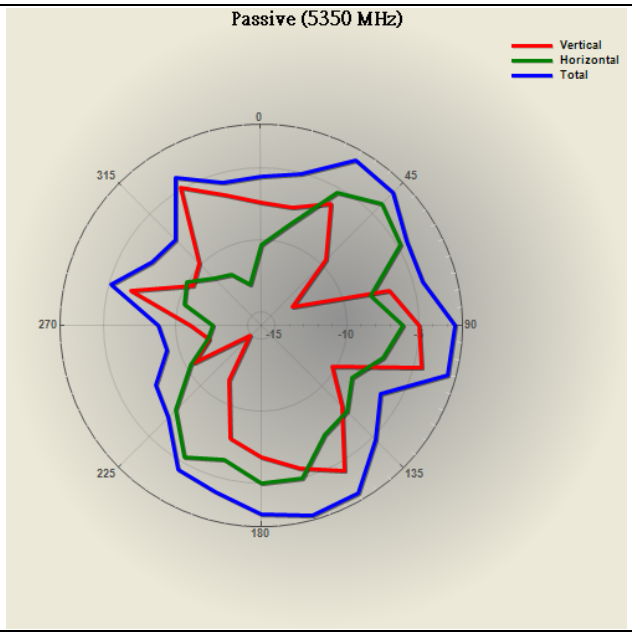
5350.00000 Azimuth 0°



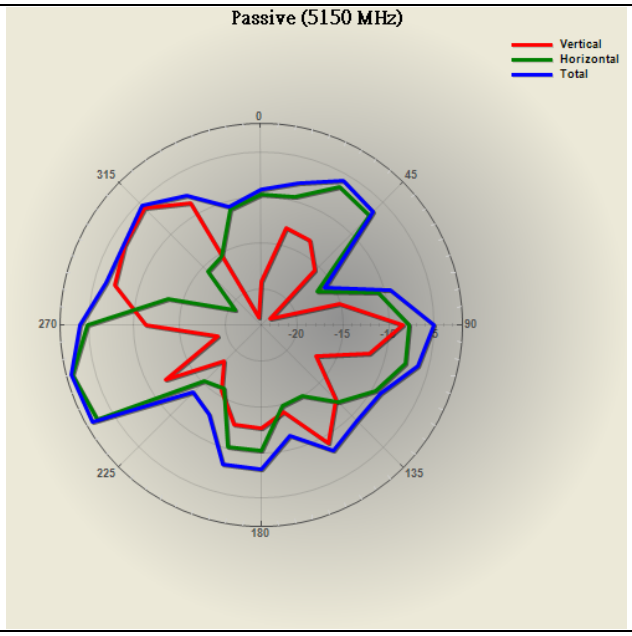
5350.00000 MHz Azimuth 90°



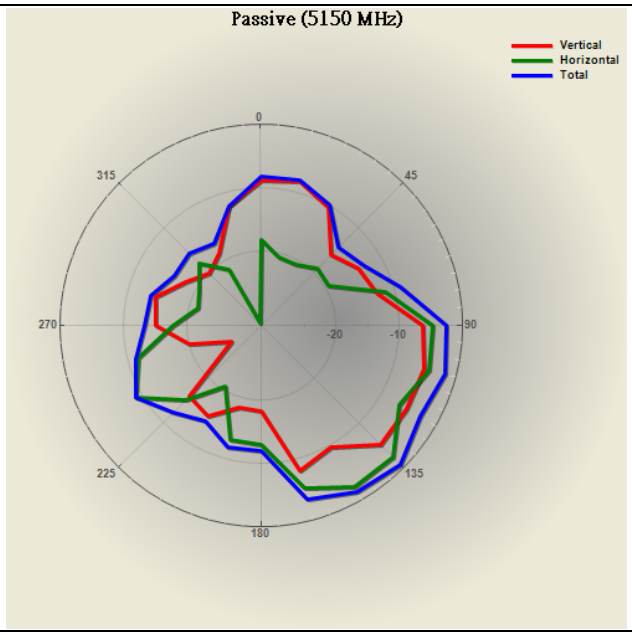
5350.00000 MHz H-Plane (Elevation 90°)



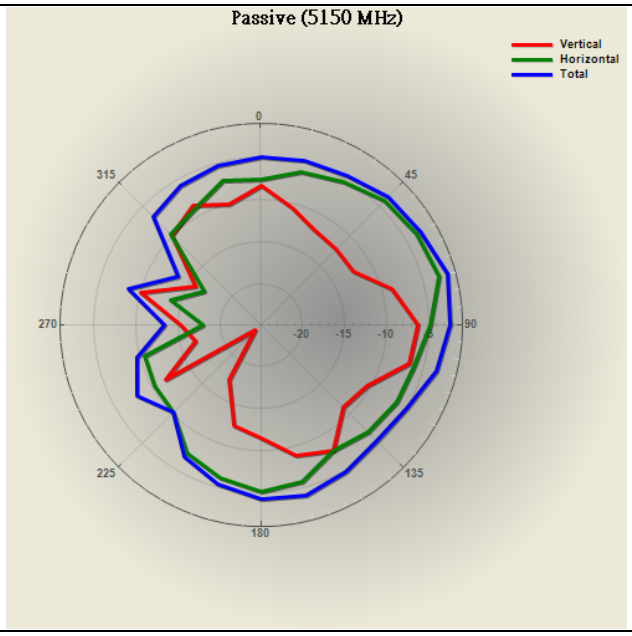
5150.00000 Azimuth 0°



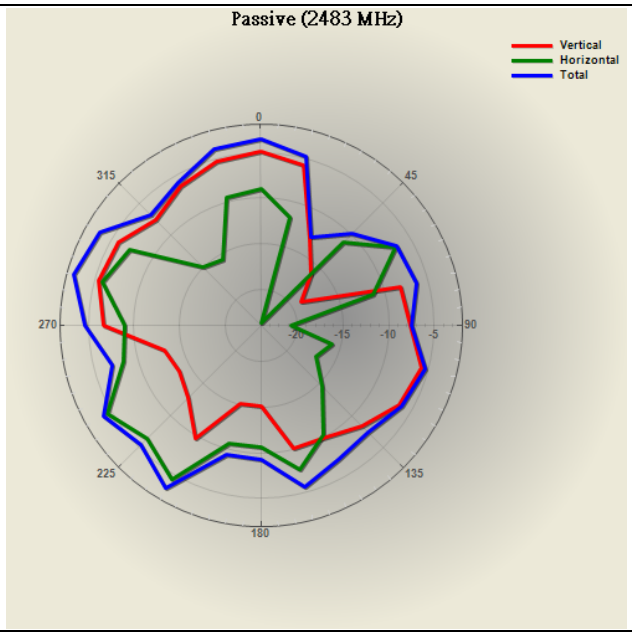
5150.00000 MHz Azimuth 90°



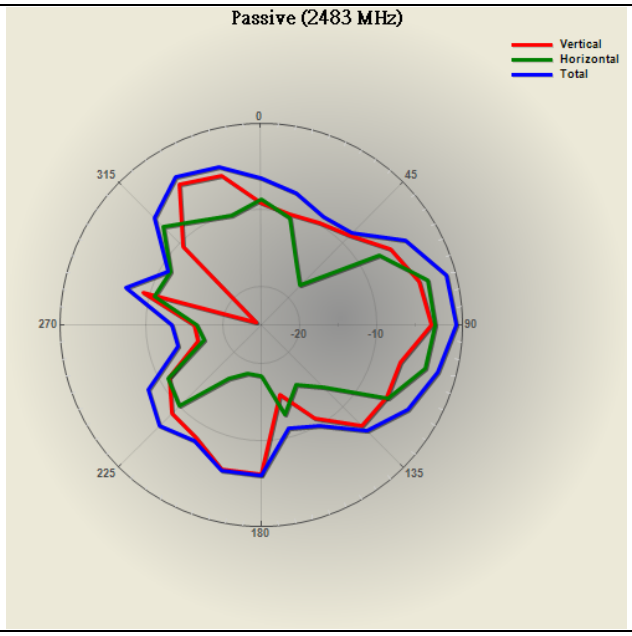
5150.00000 MHz H-Plane (Elevation 90°)



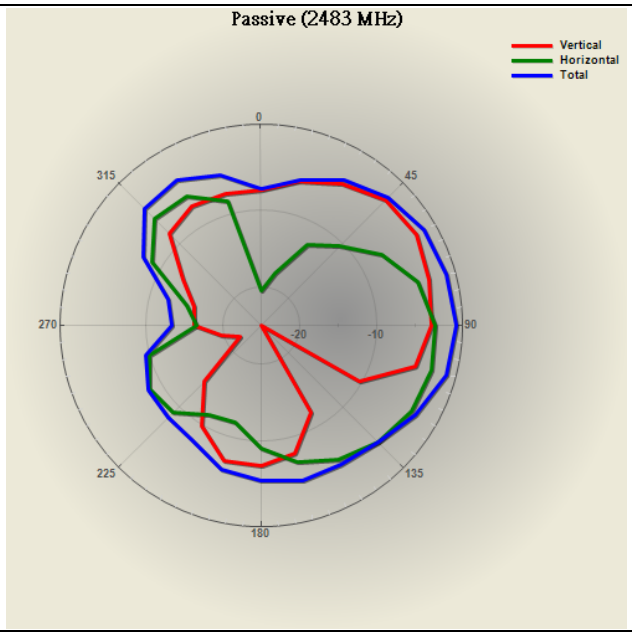
2483.00000 Azimuth 0°



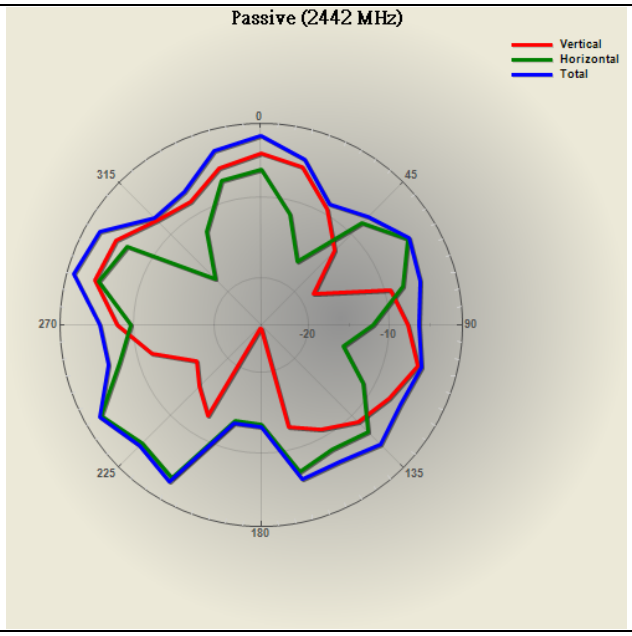
2483.00000 MHz Azimuth 90°



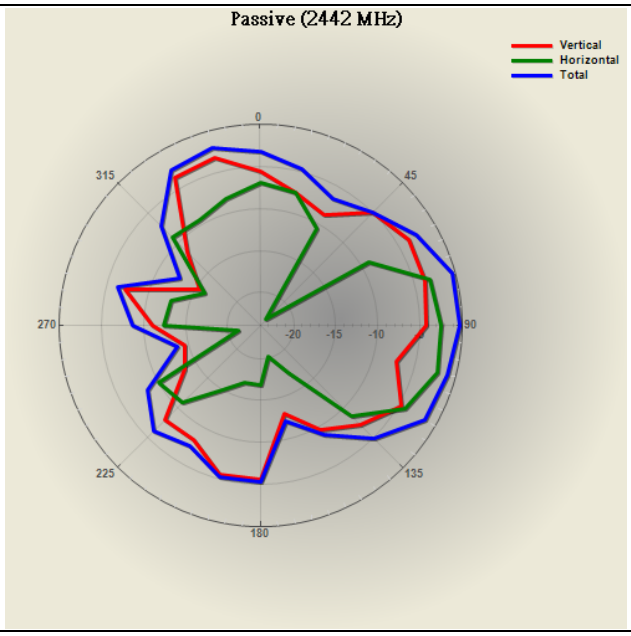
2483.00000 MHz H-Plane (Elevation 90°)



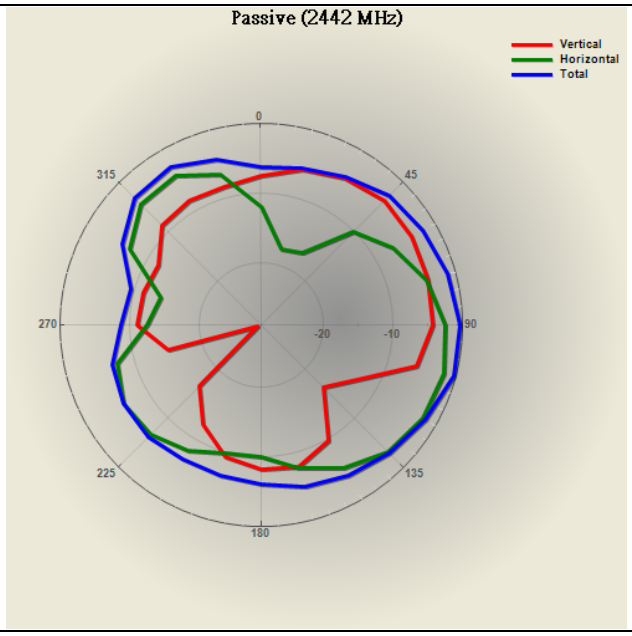
2442.00000 Azimuth 0°



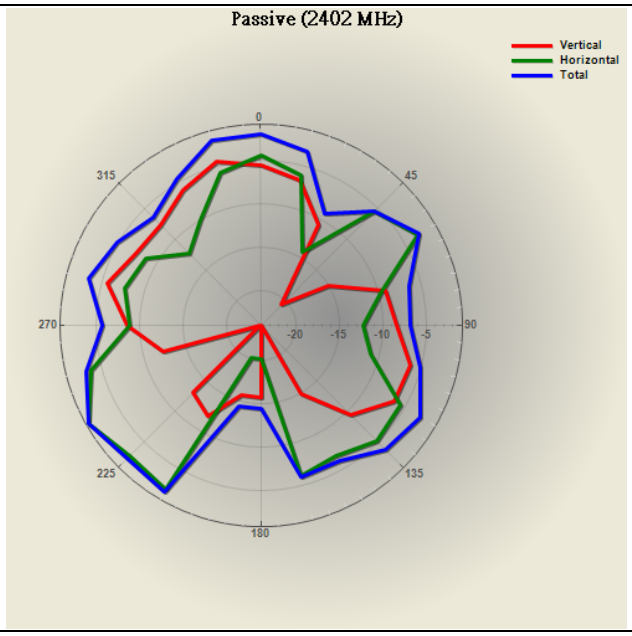
2442.00000 MHz Azimuth 90°



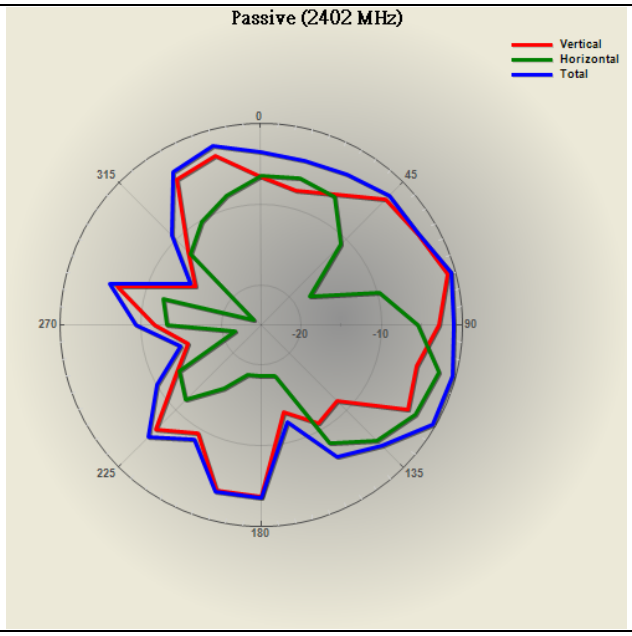
2442.00000 MHz H-Plane (Elevation 90°)



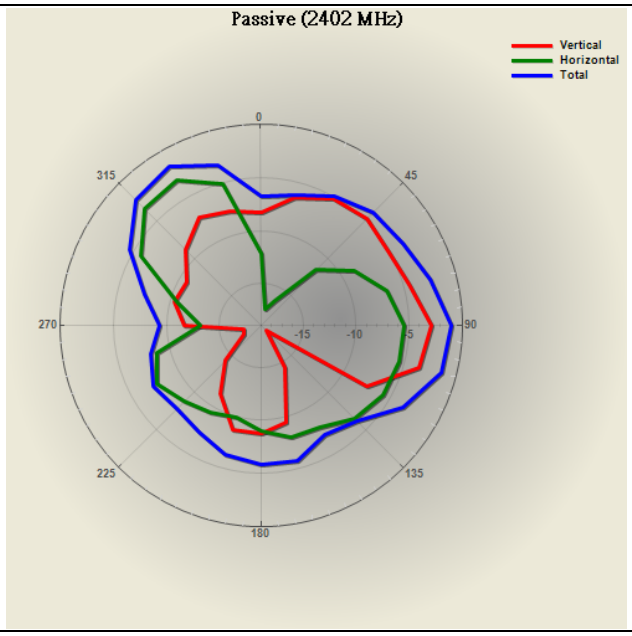
2402.00000 Azimuth 0°



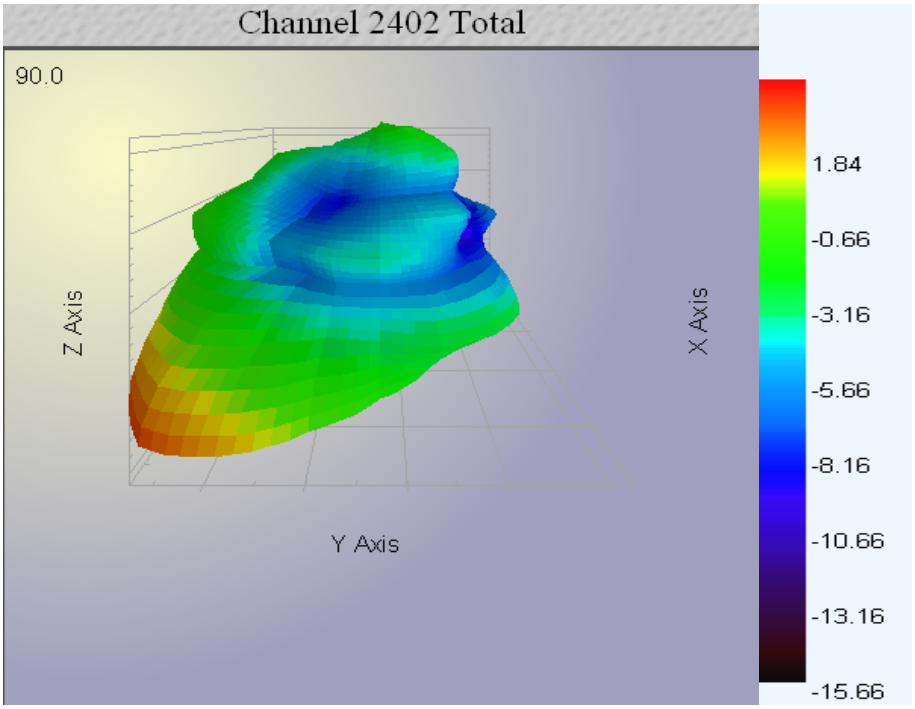
2402.00000 MHz Azimuth 90°

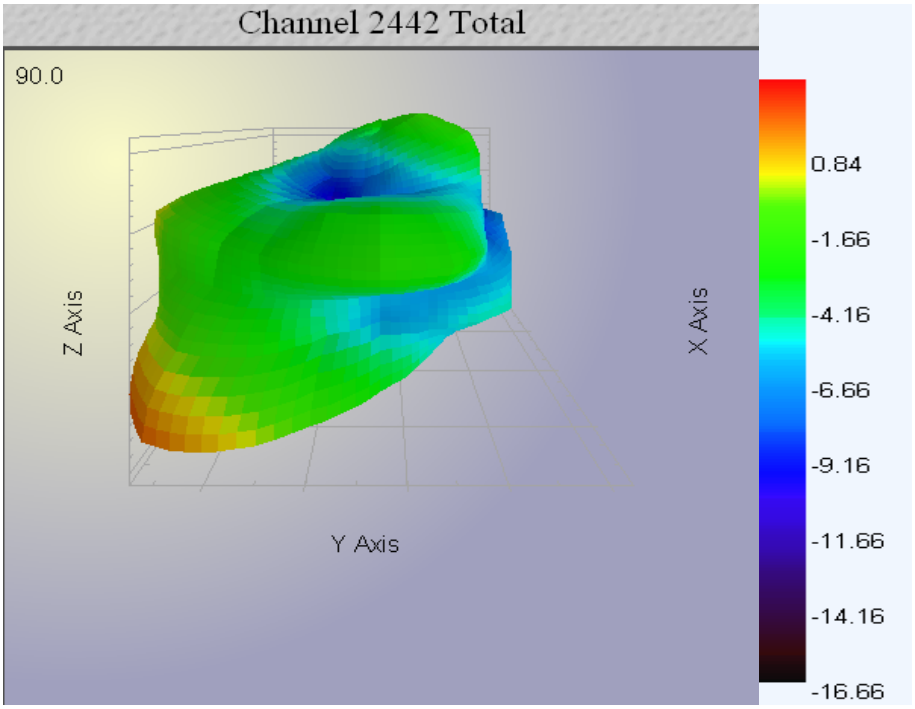


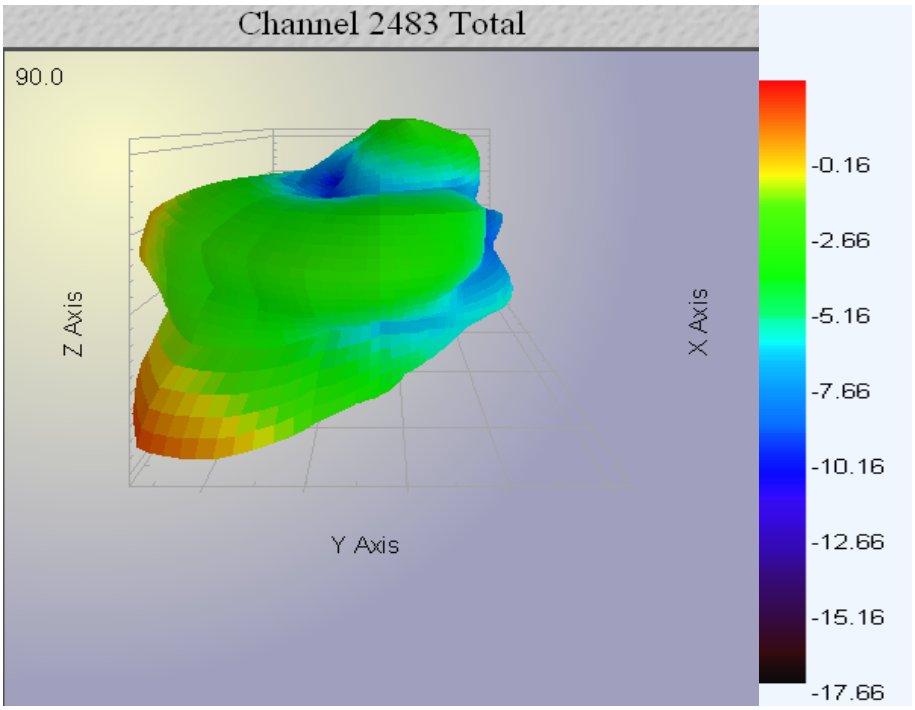
2402.00000 MHz H-Plane (Elevation 90°)

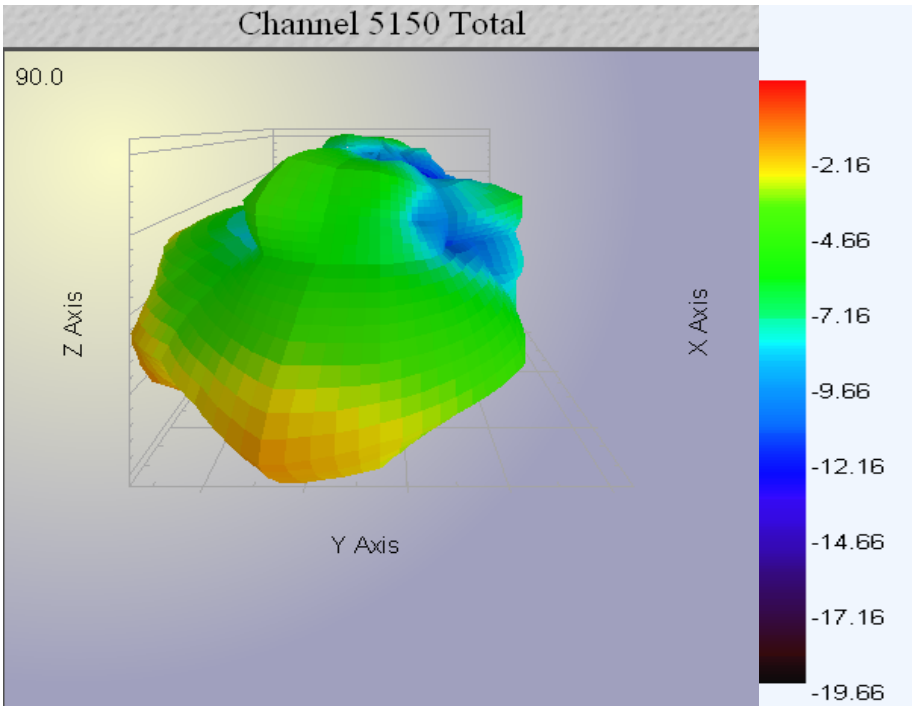


4. 3D Plots

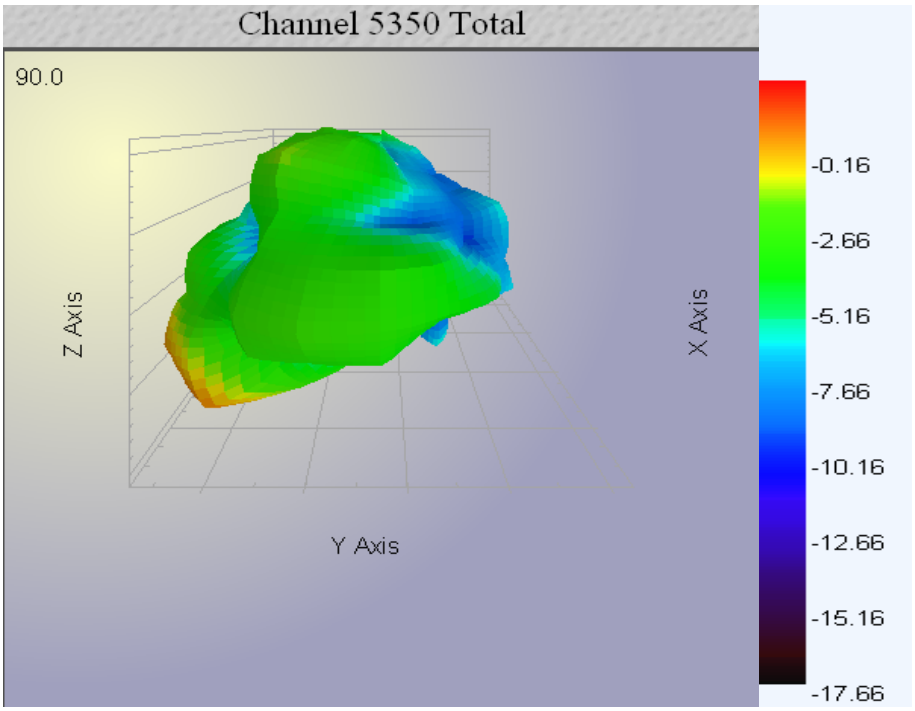
3D view at frequency 2402 MHz


3D view at frequency 2442 MHz


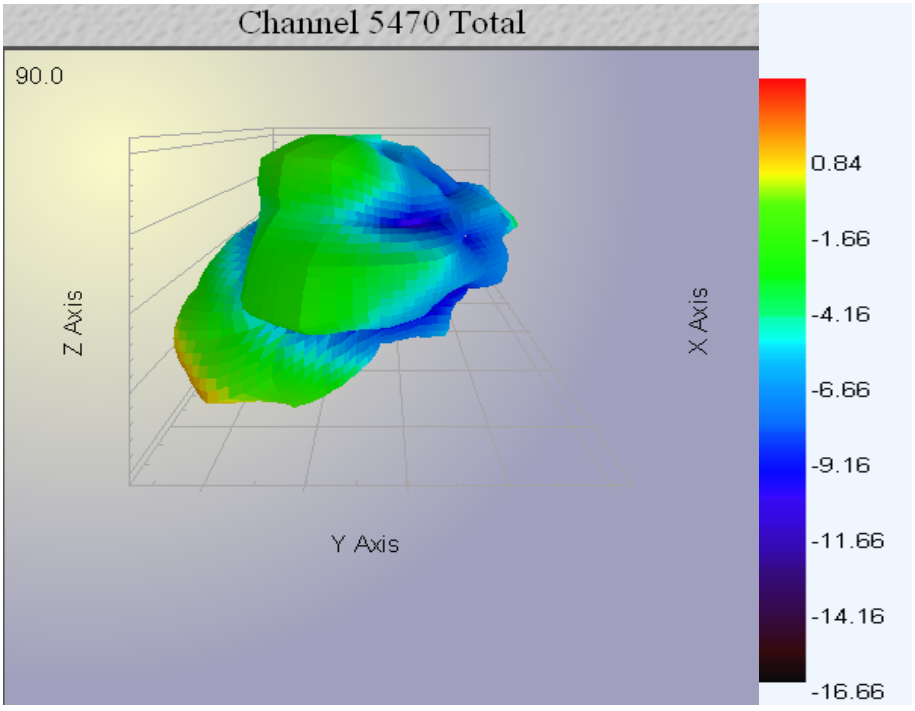
3D view at frequency 2483 MHz


3D view at frequency 5150 MHz


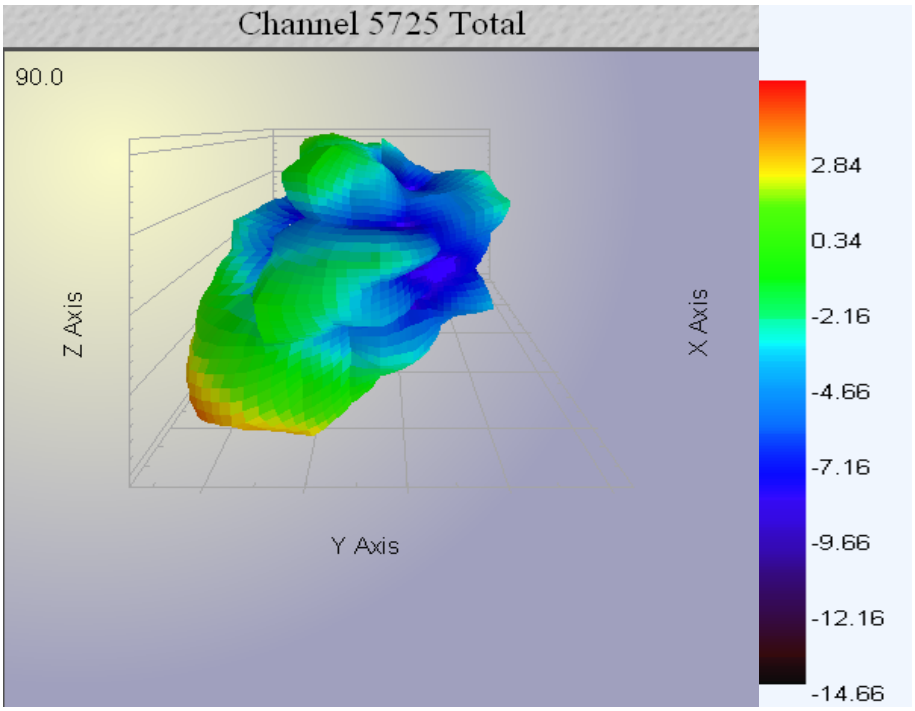
3D view at frequency 5350 MHz



3D view at frequency 5470 MHz



3D view at frequency 5725 MHz



3D view at frequency 5850 MHz