

Bumblebee Regulatory WLAN Antenna Information

Platform information							
Brand	ODM	*****Platform model name	Platform type (ex: regular NB, convertible PC, AIO...etc)	SAR minimum separation (mm)			
Vivint	Chicony	Bumblebee	Door bell				
Antenna information				Peak gain w/ cable loss (dBi)			
Vendor	Type	Antenna Part number (Main)	Antenna Part number (Diversity)	2.4GHz 2400-2500MHz	5.2GHz 5150-5350MHz	5.5GHz 5470-5725MHz	5.8GHz 5725-5850MHz
Amphenol	PIFA	CY5873-12-001-C	CY5873-12-002-C	0.72	1.08	2.56	0.53

Antenna manufacturer	Amphenol Taiwan Corporation
Address	No.71 , Lane 956 , Jungshan Rd. , Taoyuan City 330

Antenna Information

Section 1. Antenna Assembly Specifications

1A Antenna Part Number	1B Manufacturer	1C Antenna Type	1D Cable Assembly Part Number and Information	Freq Range MHz	1E *Peak Gain W/ Cable loss (dBi)	1F Peak Gain w/o Cable Loss (dBi)	1G Max VSWR	1H Cable Loss (dB)
(P/N: CY5873-12-001-C) Main Tx1/ Rx1 Antenna	Amphenol Taiwan Corporation	PIFA	Connector: IPEX Coaxial cable 50 ohm Coaxial length: 40.65mm	2400-2500	0.72	0.82	2.0	0.1
				5150-5350	1.08	1.48	2.0	0.4
				5470-5725	2.33	2.73	2.0	0.4
				5725-5850	0.53	0.94	2.0	0.41
(P/N: CY5873-12-002-C) Aux Tx2/ Rx2 Antenna	Amphenol Taiwan Corporation	PIFA	Connector: IPEX Coaxial cable 50 ohm Coaxial length: 40.65mm	2400-2500	0.69	0.79	2.0	0.1
				5150-5350	-0.24	0.16	2.0	0.4
				5470-5725	0.12	0.52	2.0	0.4
				5725-5850	2.56	2.97	2.0	0.41

- Antenna Peak Gain required being test in system basis.
- 1E frame contend absolutely peak antenna gain include H/V

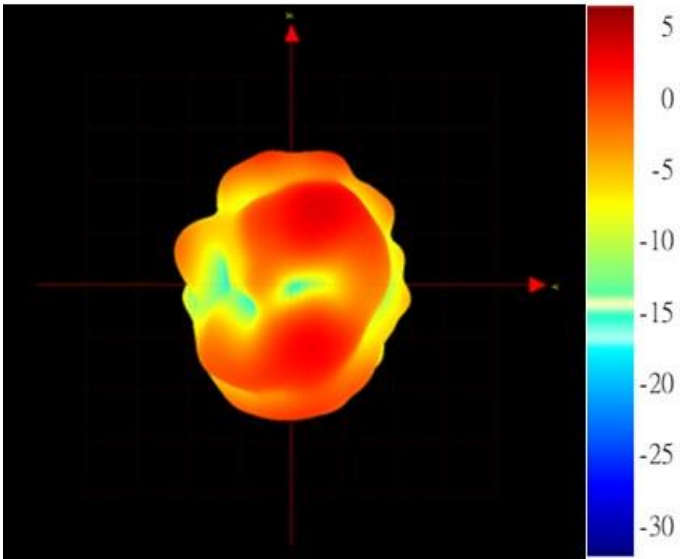
3D Antenna Peak Gain Table:

	Main antenna	Diversity Antenna
Frequency (MHz)	(dBi)	(dBi)
2400	0.22	0.20
2450	0.58	0.24
2500	0.72	0.69
5150	-0.14	-0.68
5250	1.08	-1.75
5350	0.87	-0.24
5470	2.33	-0.34
5600	1.86	-0.23
5725	0.53	0.12
5785	0.13	2.56
5850	-0.25	1.26

Section 3. Radiation characteristics of antennae Loaded in Host Platform

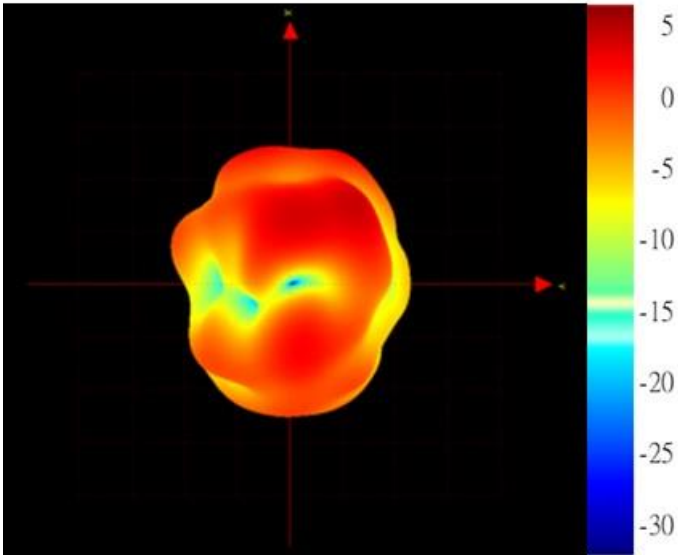
2400-2500 MHz radiation characteristic

Main antenna:2400 MHz



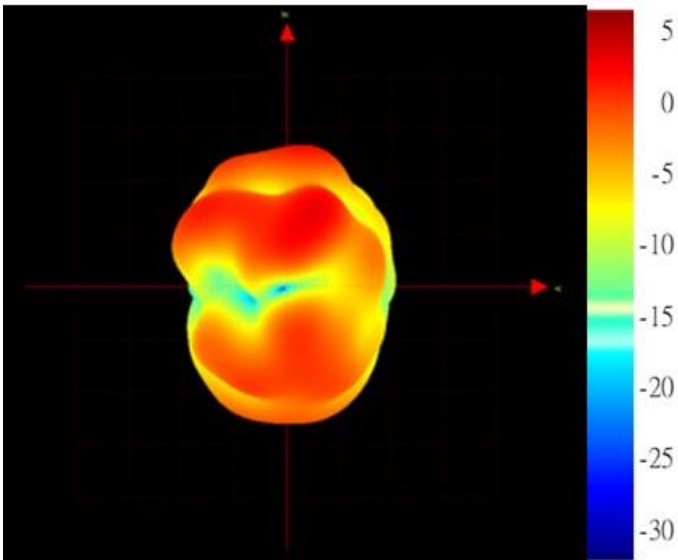
Center Frequency	2400 MHz
Three-dimensional (dBi) peak	0.22

Main antenna:2450 MHz



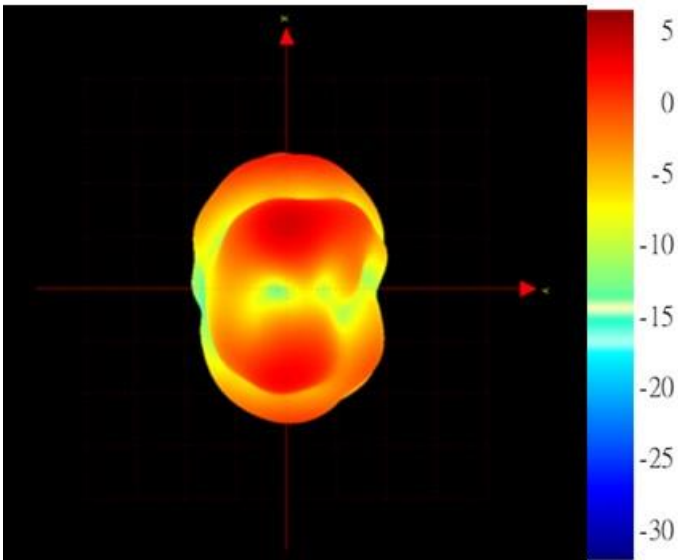
Center Frequency	2450 MHz
Three-dimensional (dBi) peak	0.58

Main antenna:2500 MHz



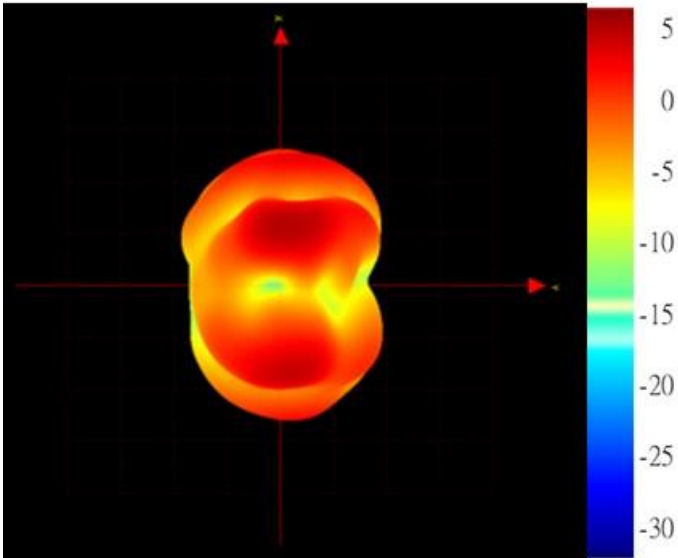
Center Frequency	2500 MHz
Three-dimensional (dBi) peak	0.72

Diversity antenna:2400 MHz



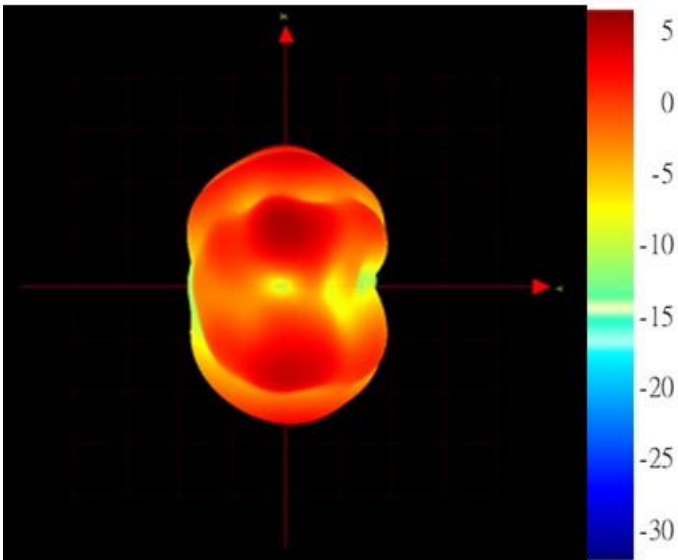
Center Frequency	2400 MHz
Three-dimensional (dBi) peak	0.20

Diversity antenna:2450 MHz



Center Frequency	2450 MHz
Three-dimensional (dBi) peak	0.24

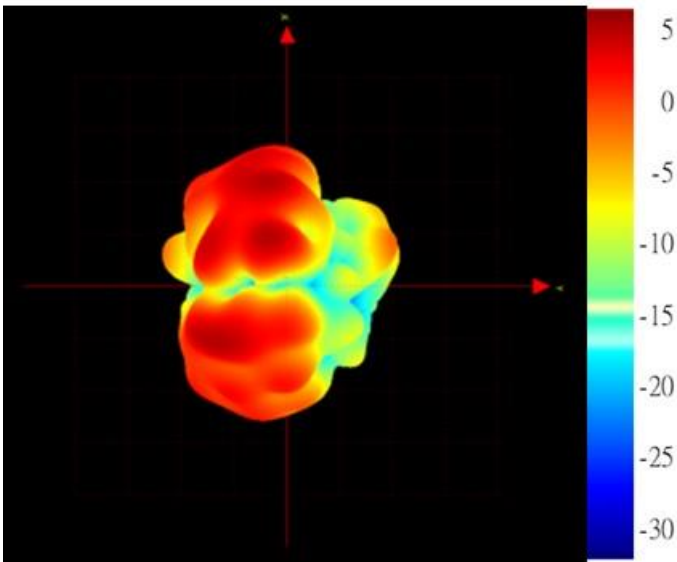
Diversity antenna:2500 MHz



Center Frequency	2500 MHz
Three-dimensional (dBi) peak	0.69

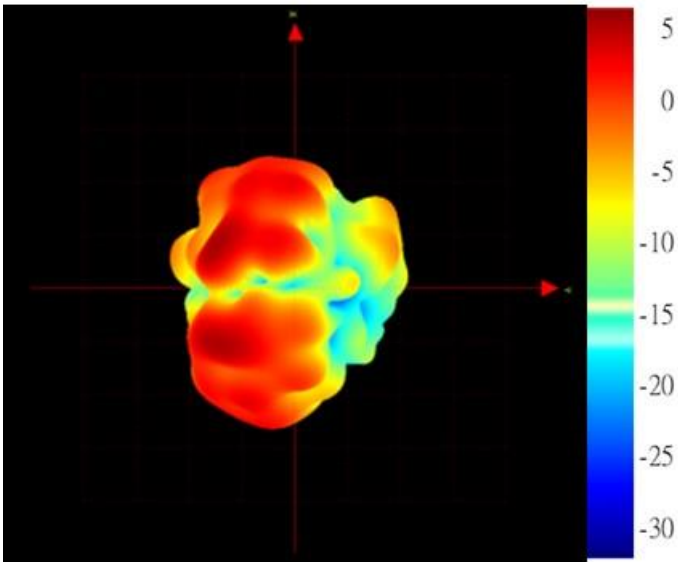
5150-5350 MHz radiation characteristic

Main antenna:5150 MHz



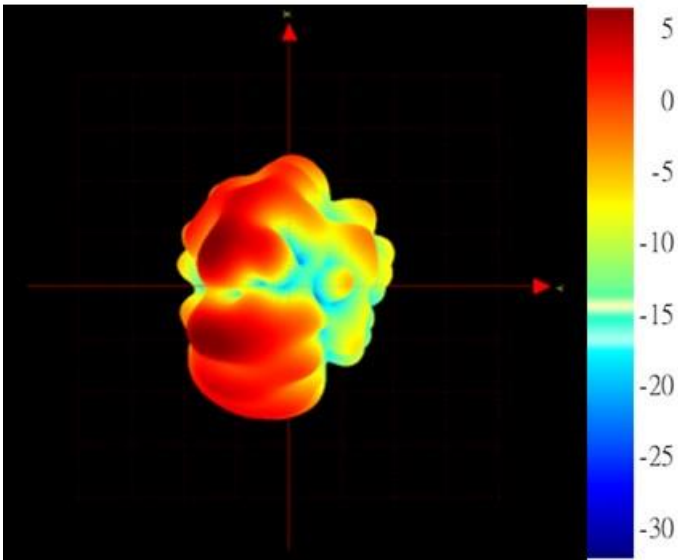
Center Frequency	5150 MHz
Three-dimensional (dBi) peak	-0.14

Main antenna:5250 MHz



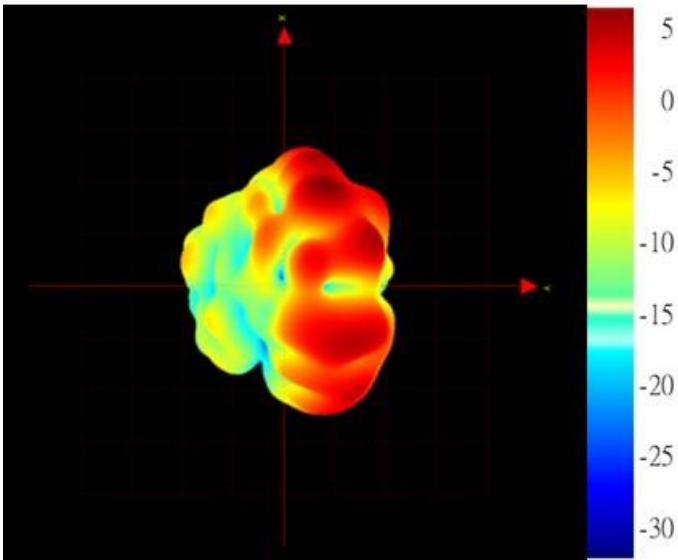
Center Frequency	5250 MHz
Three-dimensional (dBi) peak	1.08

Main antenna:5350 MHz



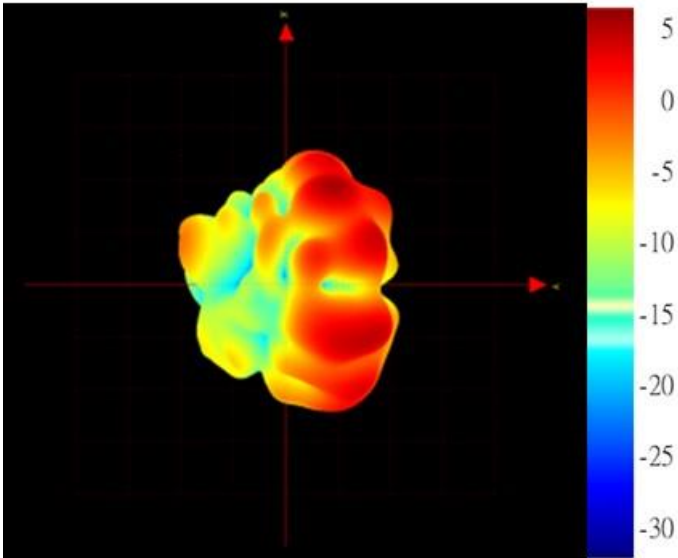
Center Frequency	5350 MHz
Three-dimensional (dBi) peak	0.87

Diversity antenna:5150 MHz



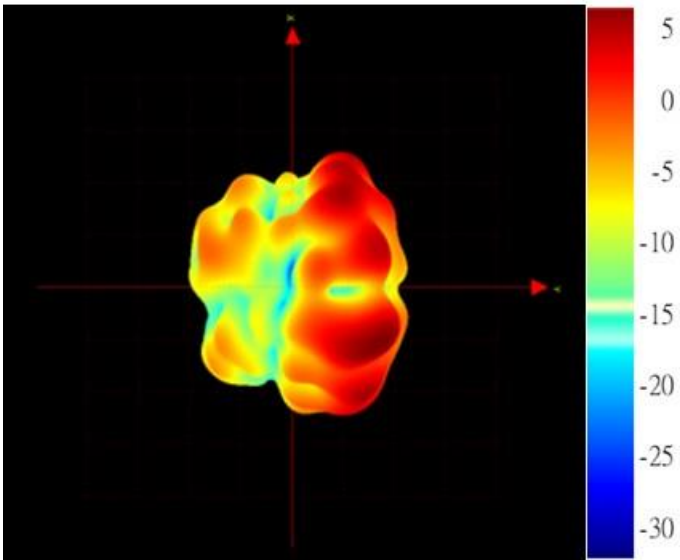
Center Frequency	5150 MHz
Three-dimensional (dBi) peak	-0.68

Diversity antenna:5250 MHz



Center Frequency	5250 MHz
Three-dimensional (dBi) peak	-1.75

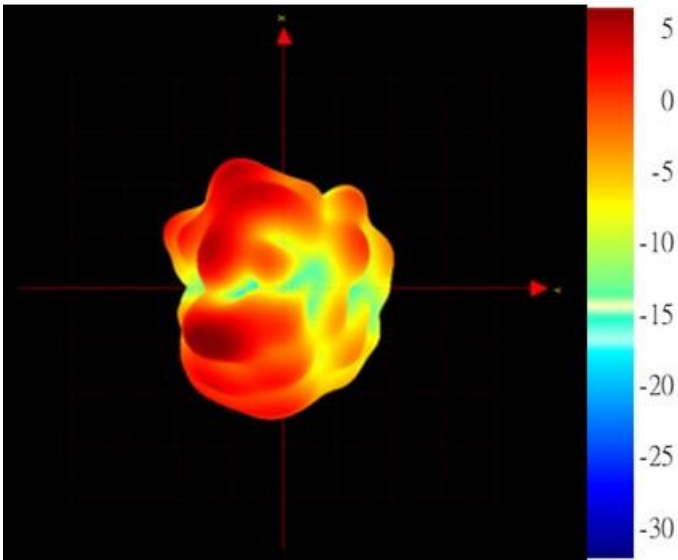
Diversity antenna:5350 MHz



Center Frequency	5350 MHz
Three-dimensional (dBi) peak	-0.24

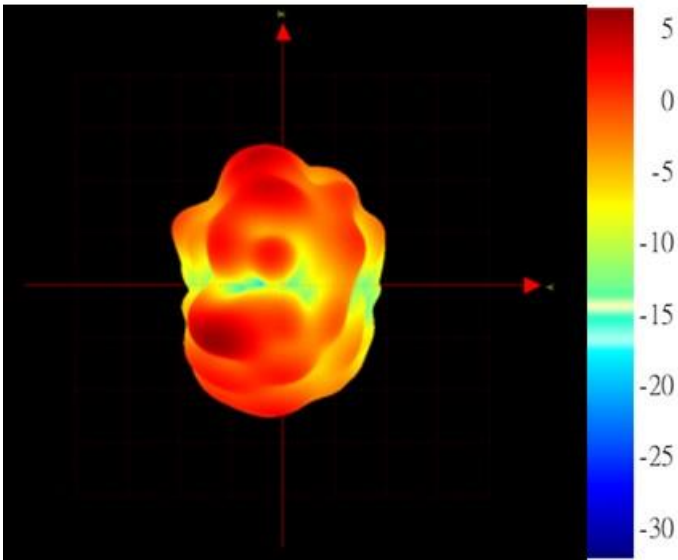
5470-5725 MHz radiation characteristic

Main antenna:5470 MHz



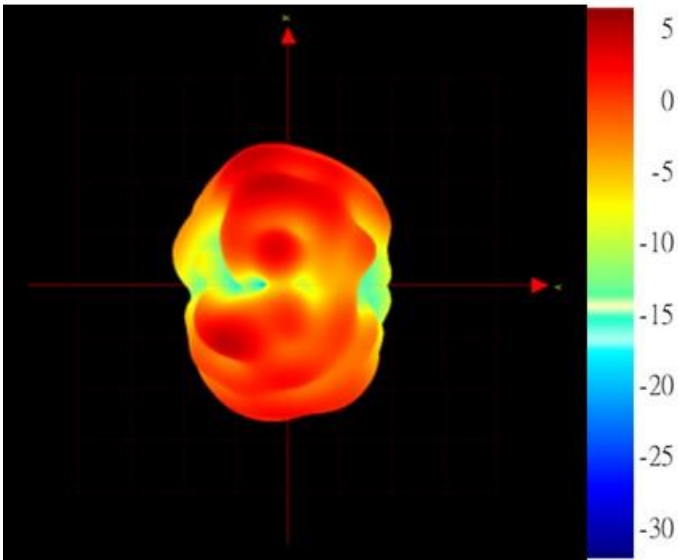
Center Frequency	5470 MHz
Three-dimensional (dBi) peak	2.33

Main antenna:5600 MHz



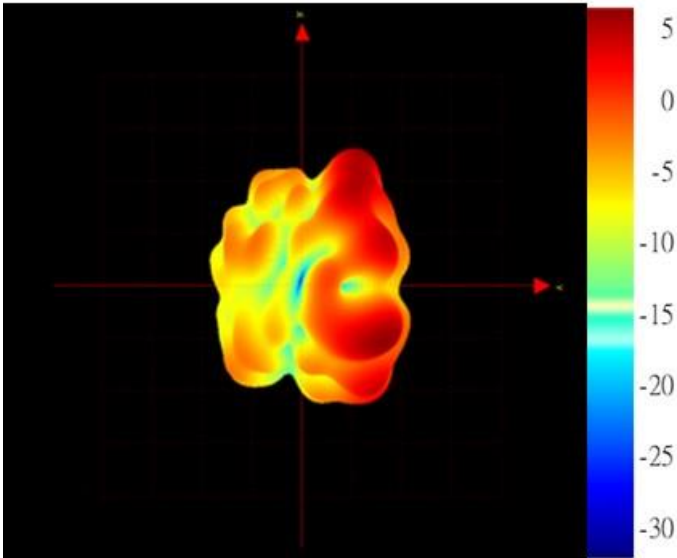
Center Frequency	5600 MHz
Three-dimensional (dBi) peak	1.86

Main antenna:5725 MHz



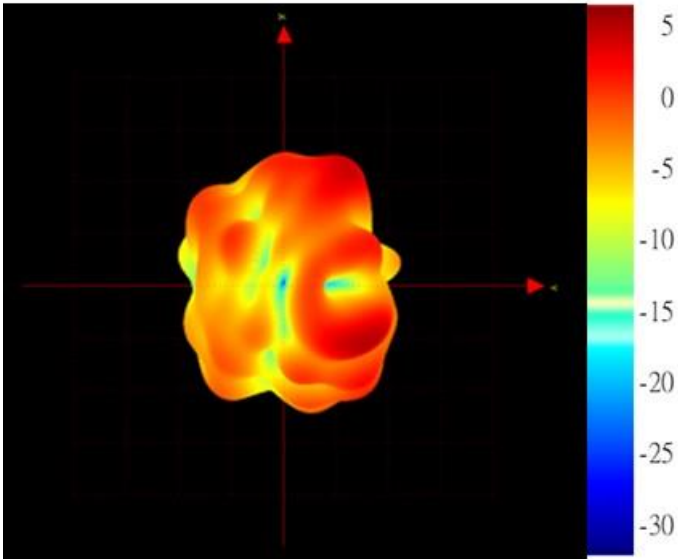
Center Frequency	5725 MHz
Three-dimensional (dBi) peak	0.53

Diversity antenna:5470 MHz



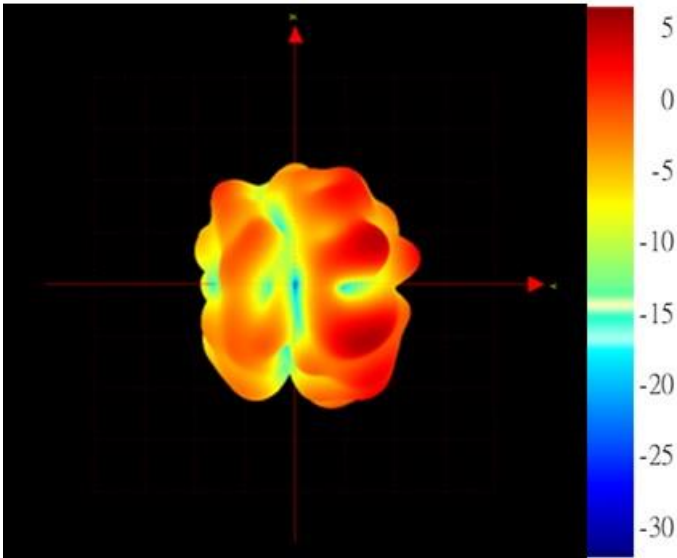
Center Frequency	5470 MHz
Three-dimensional (dBi) peak	-0.34

Diversity antenna:5600 MHz



Center Frequency	5600 MHz
Three-dimensional (dBi) peak	-0.23

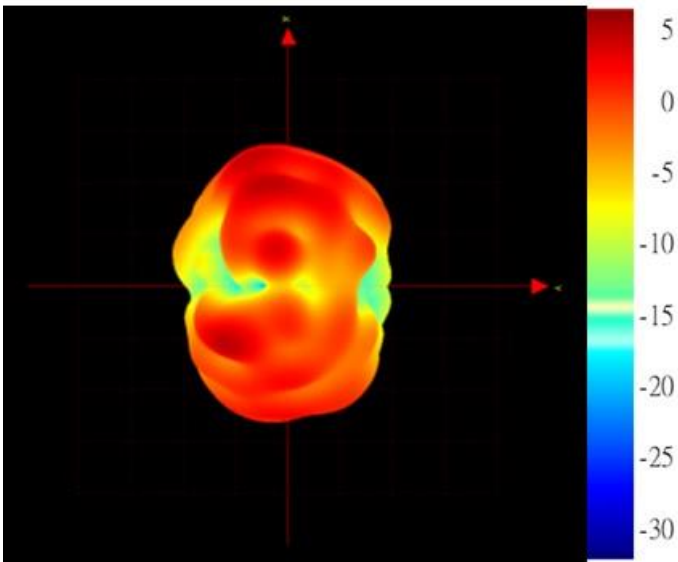
Diversity antenna:5725 MHz



Center Frequency	5725 MHz
Three-dimensional (dBi) peak	0.12

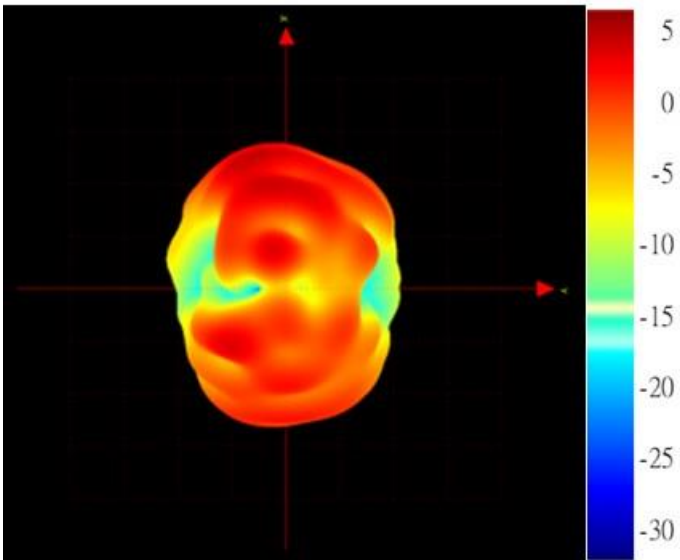
5725-5850 MHz radiation characteristic

Main antenna:5725 MHz



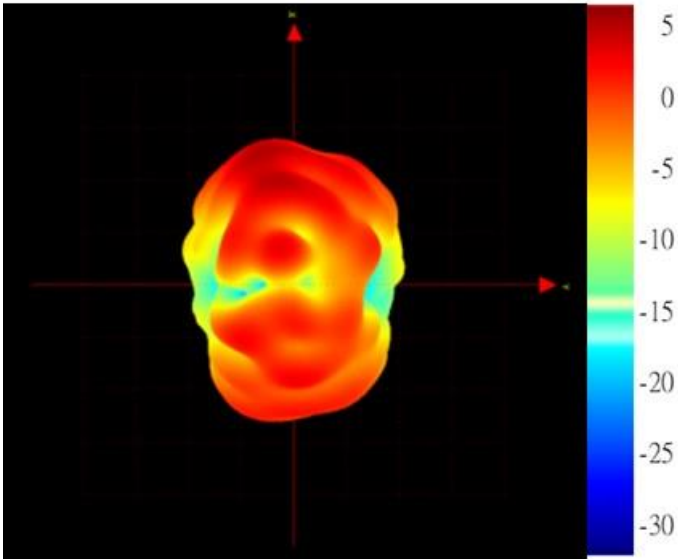
Center Frequency	5725 MHz
Three-dimensional (dBi) peak	0.53

Main antenna:5785 MHz



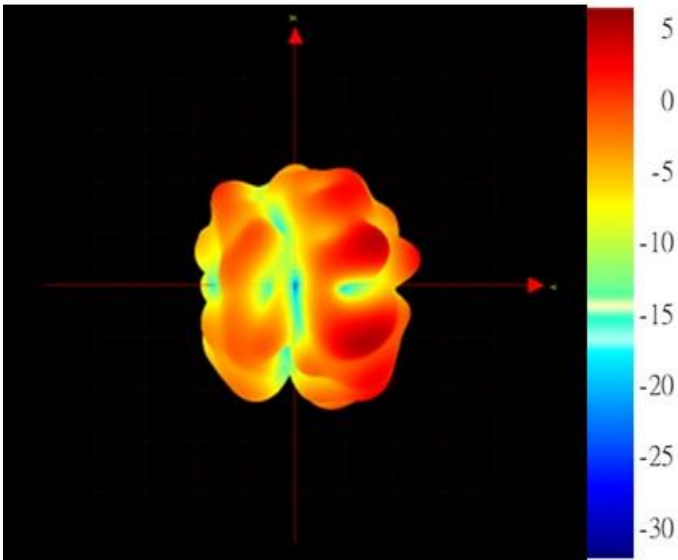
Center Frequency	5785 MHz
Three-dimensional (dBi) peak	0.13

Main antenna:5850 MHz



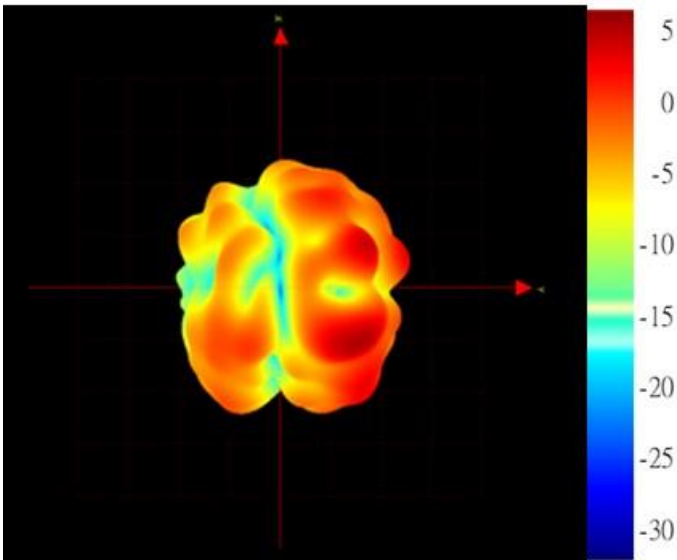
Center Frequency	5850 MHz
Three-dimensional (dBi) peak	-0.25

Diversity antenna:5725 MHz



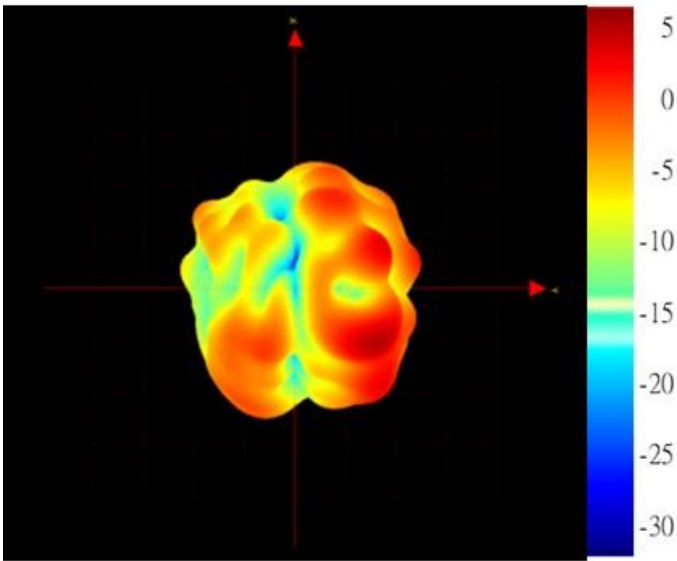
Center Frequency	5725 MHz
Three-dimensional (dBi) peak	0.12

Diversity antenna:5785 MHz



Center Frequency	5785 MHz
Three-dimensional (dBi) peak	2.56

Diversity antenna:5850 MHz



Center Frequency	5850 MHz
Three-dimensional (dBi) peak	1.26