

Regulatory WLAN Antenna Information

Platform information			
Brand	ODM	End product model name	Platform type (ex: regular NB, convertible PC, AIO...etc)
ASUS	Inventec	M1607KA, M1607HA	Regular NB

Antenna information			
Vendor	Type	Antenna Part number (Main)	Antenna Part number (Aux)
AWAN	PIFA	(AYP6Y-100536)	(AYP6Y-100537)

Antenna Manufacturer Information

AWAN
 B2F., No. 207-1, Sec. 3, Beixin Rd., Xindian Dist., New Taipei City 231, Taiwan (R.O.C.)
 Tel : +886-2-8913-1939 #2814
<http://www.awan-ant.com>

Peak gain w/ cable loss (dBi)*										
	2.4GHz 2400-2483.5 MHz	5.2GHz 5150-5250MHz	5.3GHz 5250-5350MHz	5.6GHz 5470-5725MHz	5.8GHz 5725-5850MHz	5.9GHz 5850-5895MHz	6.2GHz 5925-6425MHz	6.5GHz 6425-6525MHz	6.7GHz 6525-6875MHz	7.0 GHz 6875-7125MHz
Main	1.69	1.49	2.39	3.56	1.57	2.44	2.63	2.15	2.46	2.22
Aux	1.90	1.30	1.39	3.62	2.62	3.35	2.16	1.58	1.18	1.24

All Antenna peak gain should be less the Antenna Net Gain spec as below: (RTL8852BE)

Model	Antenna Type	Antenna Gain (dBi)		
		2.4G	5GHz	6GHz
RTL8821CE	Dipole	3.14	5	NA
RTL8822CE	PIFA	3.5	5	NA
RTL8852AE	Dipole	3	5	NA
RTL8852BE	PIFA	3.5	5	NA
	Monopole	3.38	4.81	NA
RTL8851BE	Dipole	3	5	NA
	PIFA	3.4	5	NA
	Monopole	3.2	4	NA
RTL8852CE	Dipole	3	5	5
	PIFA	3.5	5	5
	Monopole	3.38	4.81	4.86
RTL8922AE	Dipole	3	5	5
	PIFA	3.4	5	5
	Monopole	3.2	4	4.5

Antenna Information

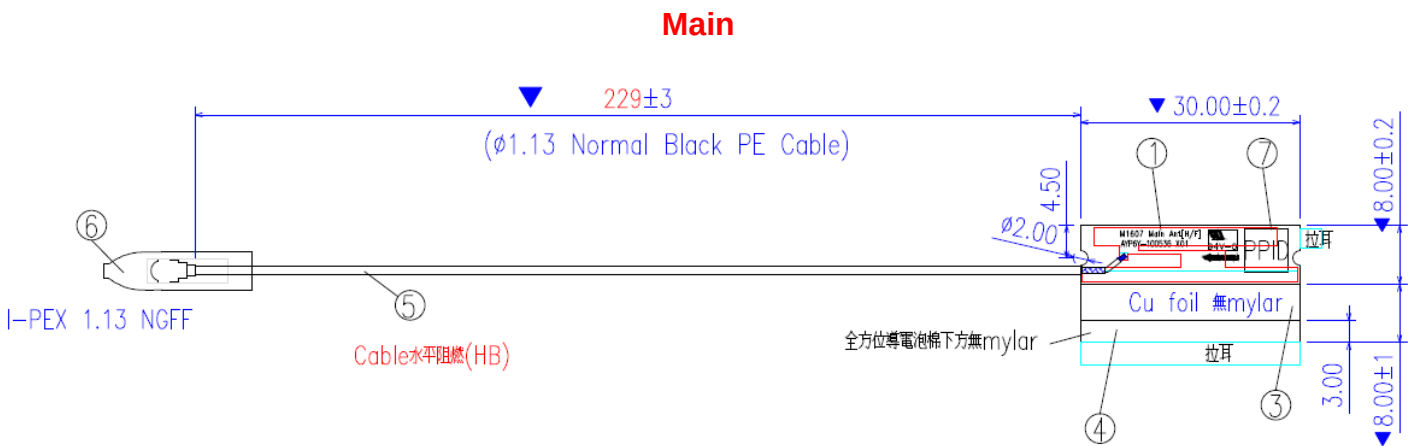
Section 1. Antenna Assembly Specifications

1A Antenna Part Number	1B Manufacturer	1C Antenna Type	1D Cable Assembly Part Number and Information	Freq Range MHz	1E *Total Peak Gain W/ Cable loss (dBi)	1F Total Peak Gain w/o Cable Loss (dBi)	1G Max VSWR	1H Cable Loss (dB)
(P/N: AYP6Y-100536) Main Antenna	AWAN	PIFA	50 ohm Coaxial length: 229 mm diameter: 1.13 mm Normal Cable Connector : I-PEX IV	2400-2483.5	1.69	2.24	5.0	0.55
				5150-5250	1.49	2.28	5.0	0.79
				5250-5350	2.39	3.22	5.0	0.83
				5470-5725	3.56	4.40	5.0	0.84
				5725-5850	1.57	2.43	5.0	0.86
				5850-5895	2.44	3.37	5.0	0.92
				5925-6425	2.63	3.53	5.0	0.93
				6425-6525	2.15	3.08	5.0	0.93
				6525-6875	2.46	3.40	5.0	0.94
				6875-7125	2.22	3.16	5.0	0.94
(P/N: AYP6Y-100537) Aux Antenna	AWAN	PIFA	50 ohm Coaxial length: 487 mm diameter: 1.13 mm Normal Cable Connector : I-PEX IV	2400-2483.5	1.90	3.09	5.0	1.19
				5150-5250	1.30	3.00	5.0	1.70
				5250-5350	1.39	3.18	5.0	1.79
				5470-5725	3.62	5.44	5.0	1.82
				5725-5850	2.62	4.47	5.0	1.85
				5850-5895	3.35	5.28	5.0	1.93
				5925-6425	2.16	4.09	5.0	1.93
				6425-6525	1.58	3.59	5.0	2.01
				6525-6875	1.18	3.20	5.0	2.02
				6875-7125	1.24	3.26	5.0	2.02

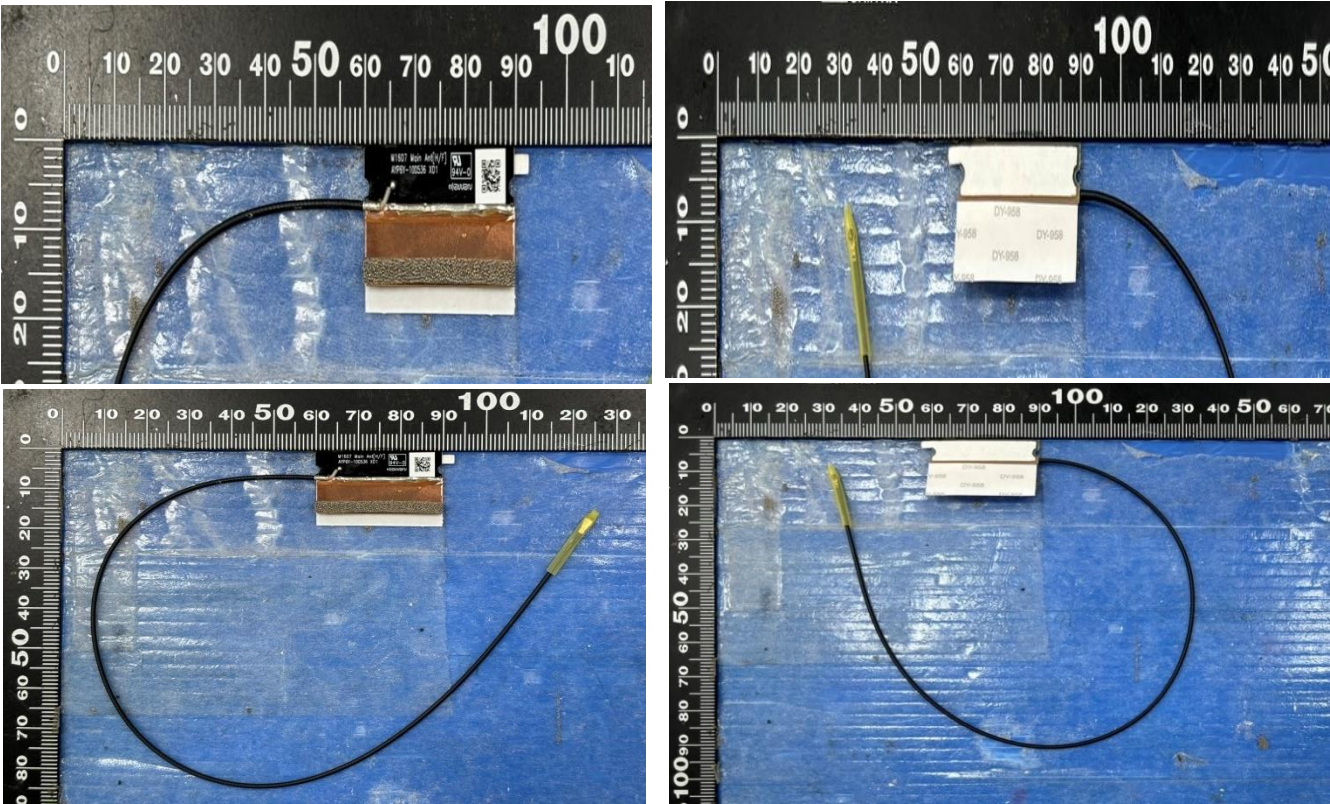
- 3D Antenna Peak Gain required being test in system basis.

Section 2. Dimensioned Photos and Drawings of Antennas

Main Antenna Drawing:

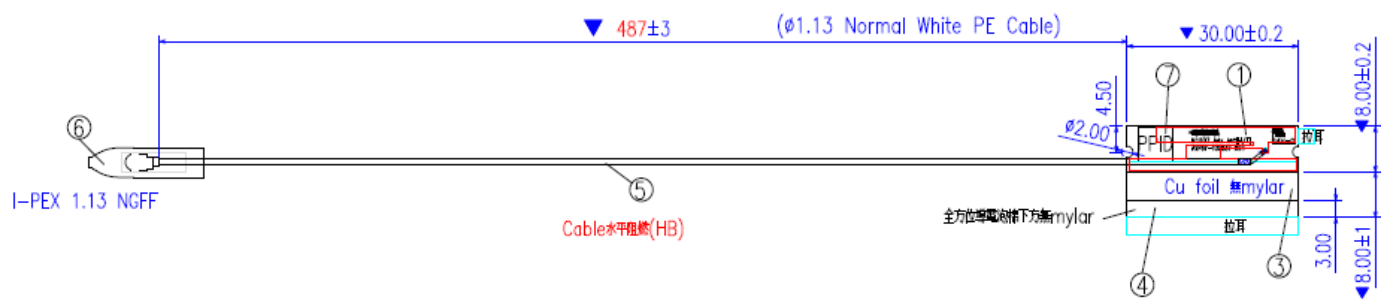


Main Antenna Photo (Front/Back):

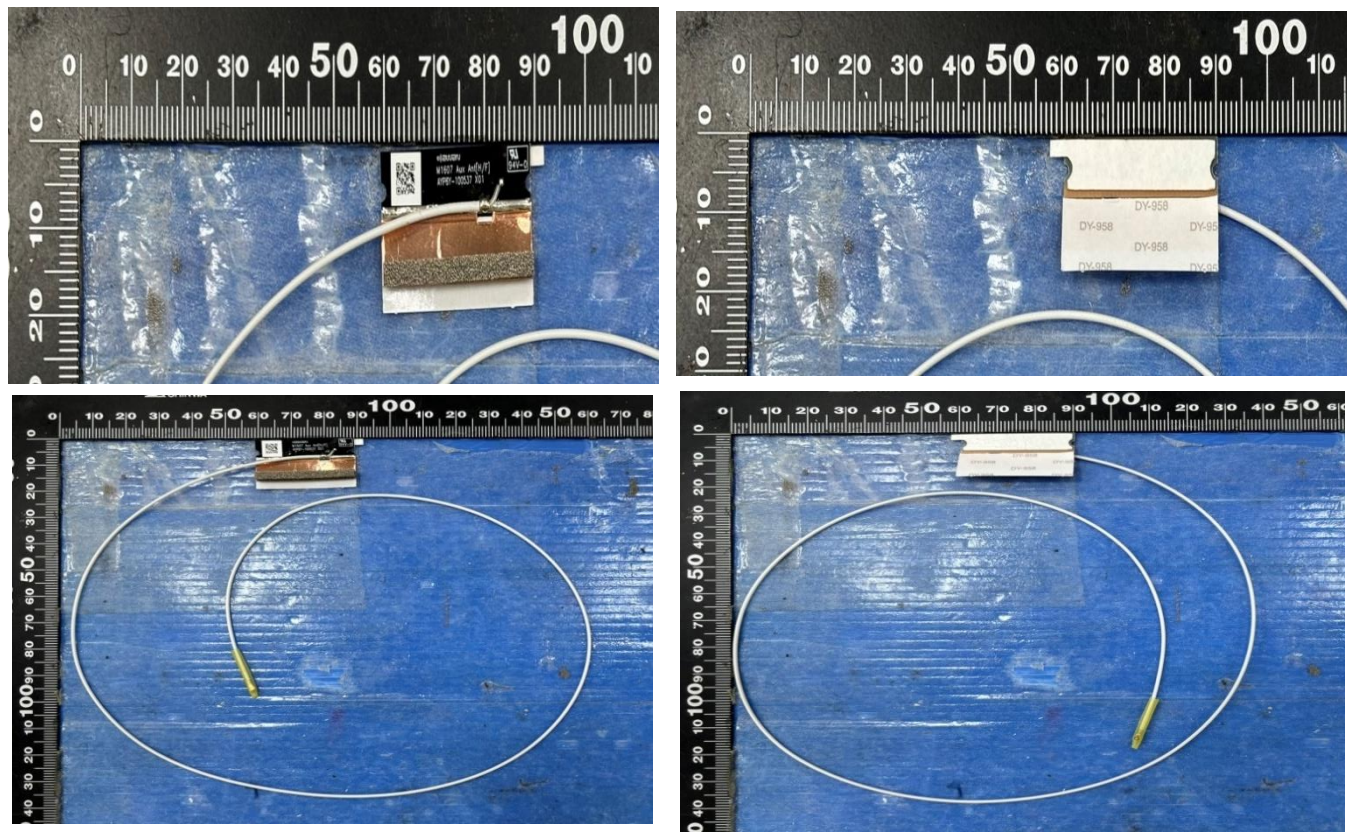


Aux Antenna Drawing:

AUX



Aux Antenna Photo (Front/Back):

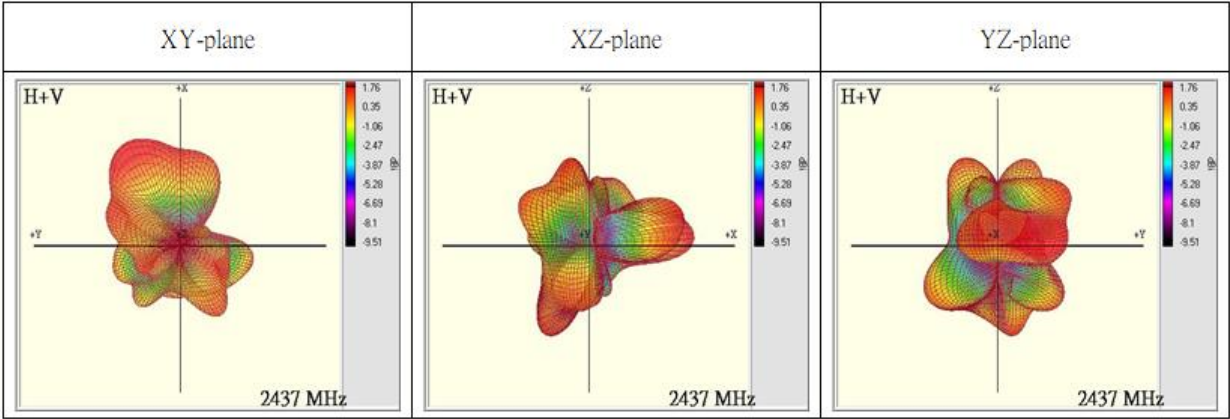


Section 3. Radiation characteristics of antenna loaded in Host Platform

Main Antenna

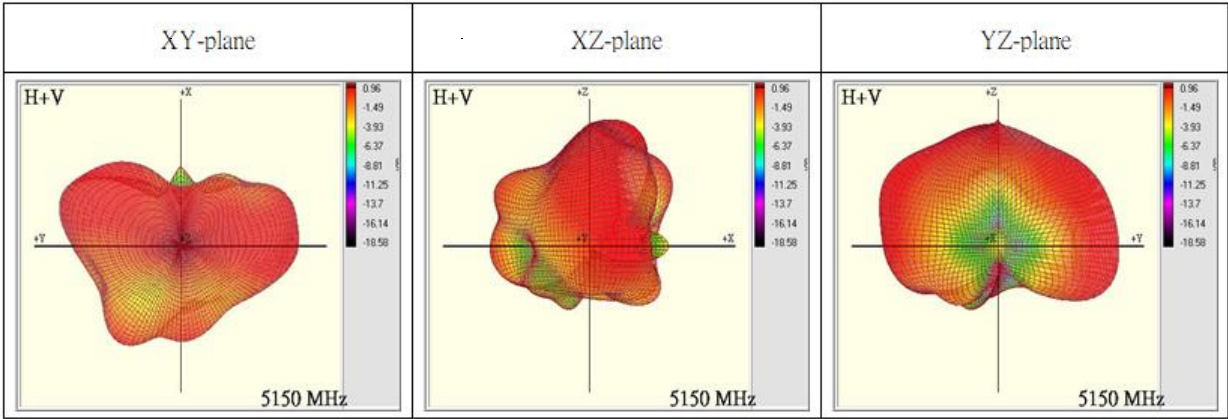
Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
2400-2483.5	1.69



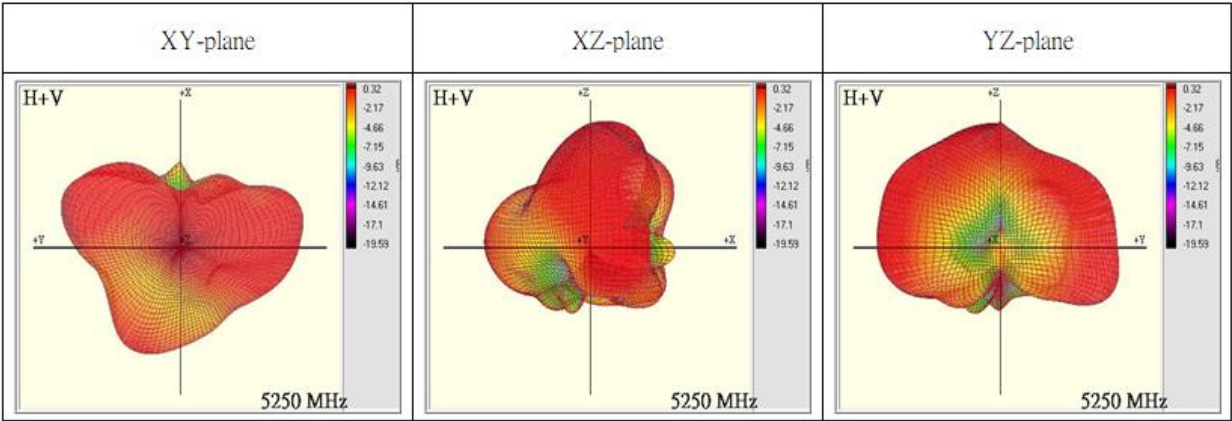
Max Antenna 3D Radiation Pattern 5150 – 5250 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5150-5250	1.49



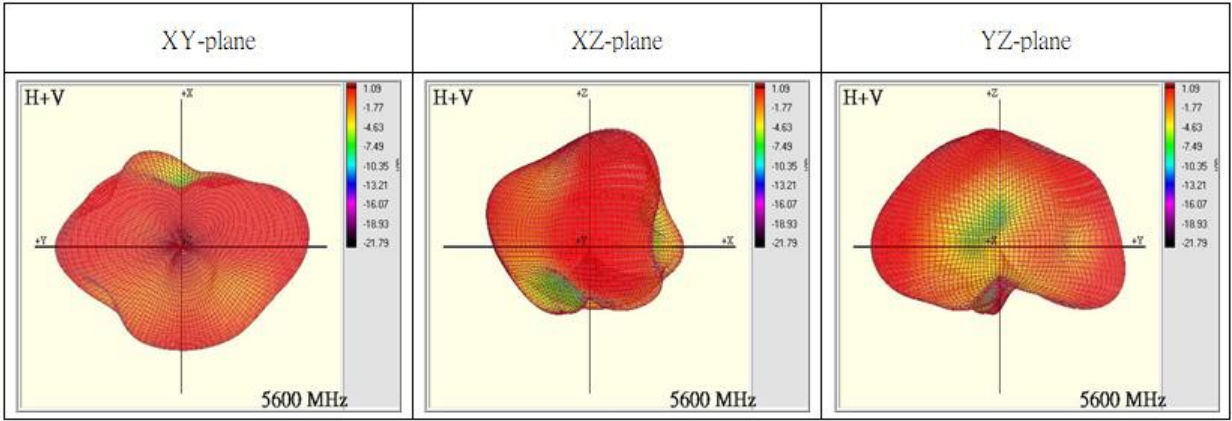
Max Antenna 3D Radiation Pattern 5250 – 5350 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5250-5350	2.39



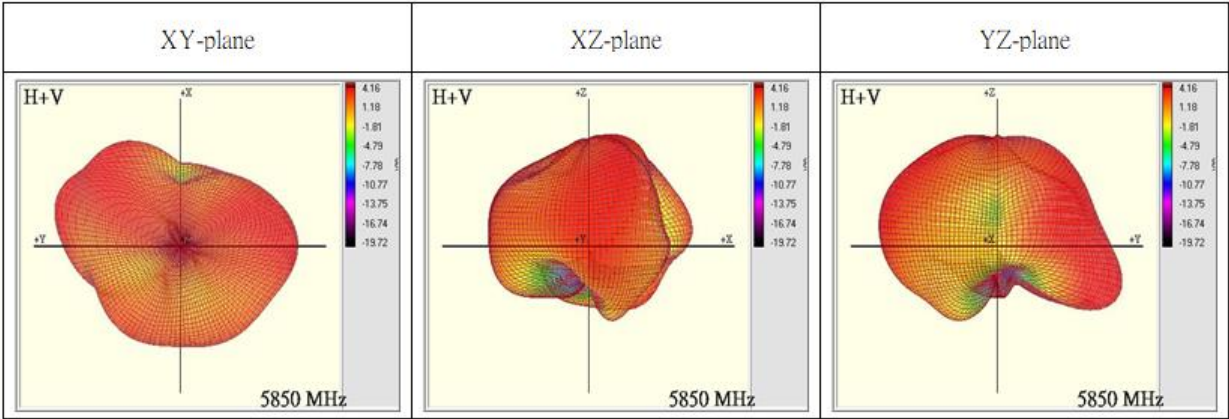
Max Antenna 3D Radiation Pattern 5470 – 5725 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5470-5725	3.56



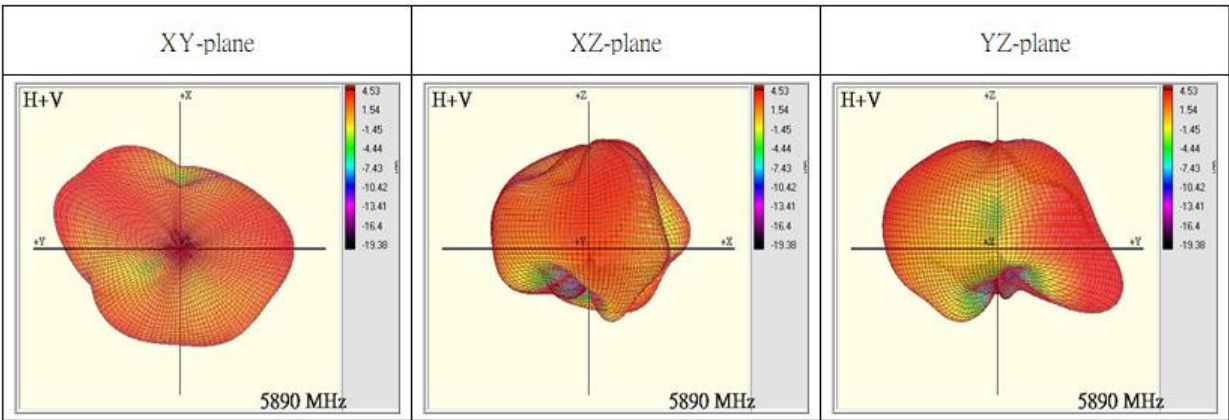
Max Antenna 3D Radiation Pattern 5725 – 5850 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5725-5850	1.57



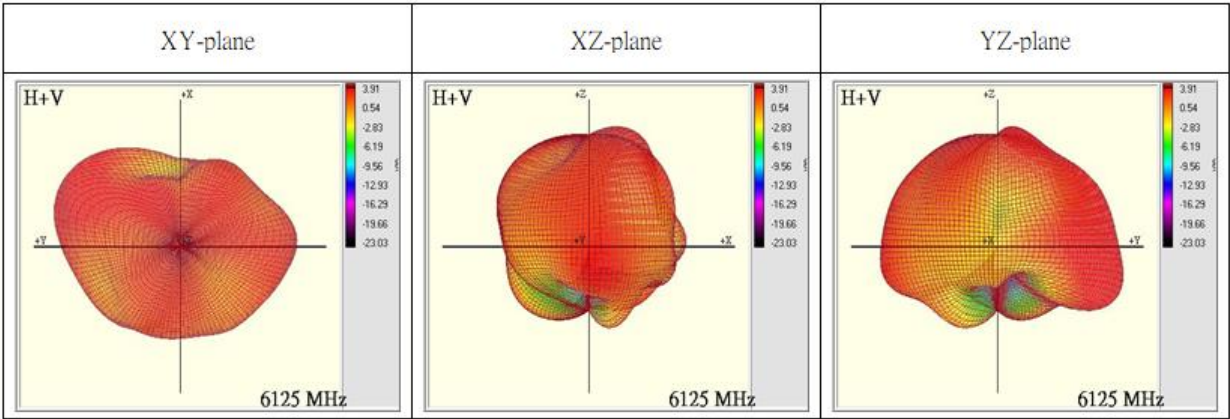
Max Antenna 3D Radiation Pattern 5850 – 5895 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5850-5895	2.44



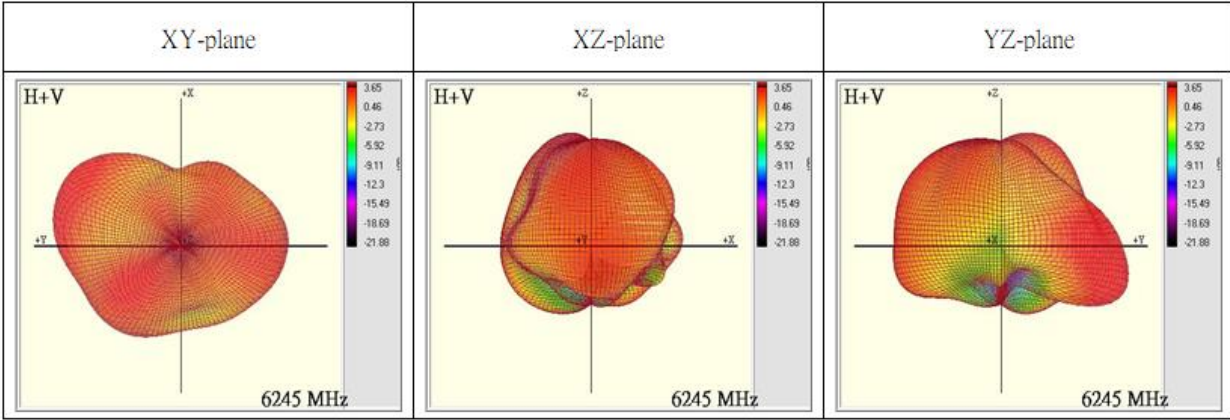
Max Antenna 3D Radiation Pattern 5925 – 6425 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5925-6425	2.63



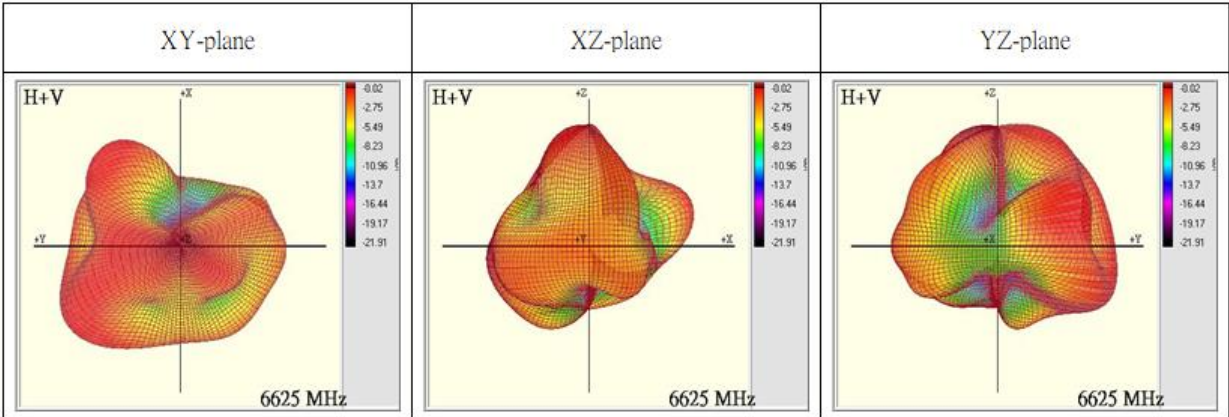
Max Antenna 3D Radiation Pattern 6425 – 6525 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6425-6525	2.15



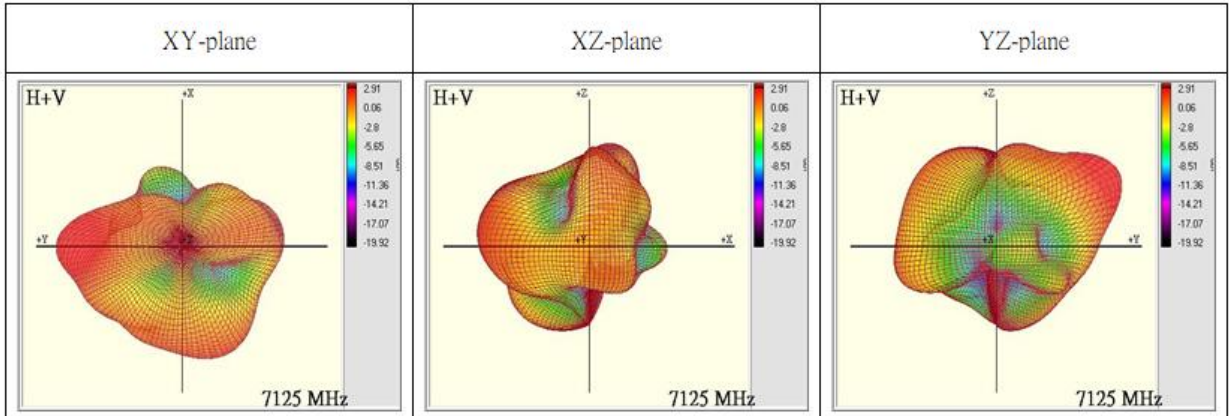
Max Antenna 3D Radiation Pattern 6525 – 6875 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6525-6875	2.46



Max Antenna 3D Radiation Pattern 6575 – 7125 MHz

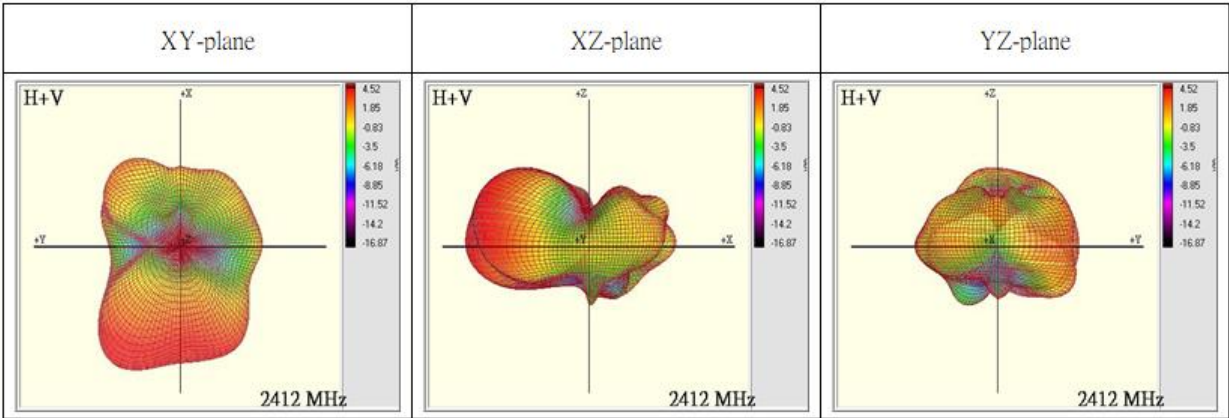
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6875-7125	2.22



Auxiliary Antenna

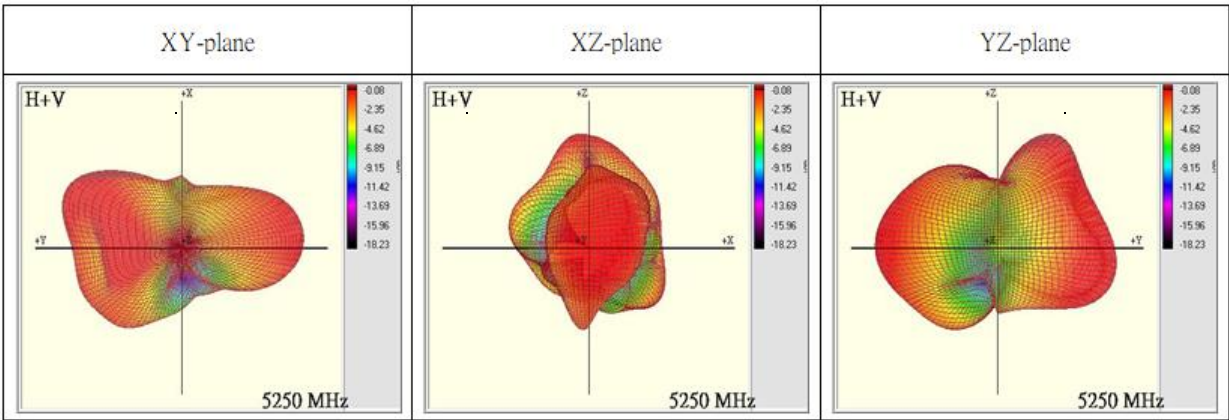
Aux Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
2400-2483.5	1.90



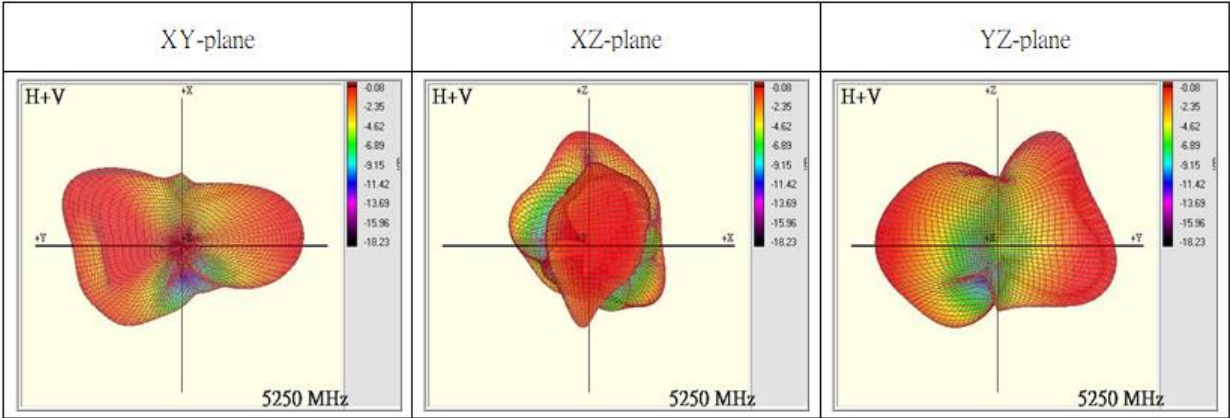
Aux Antenna 3D Radiation Pattern 5150 – 5250 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5150-5250	1.30



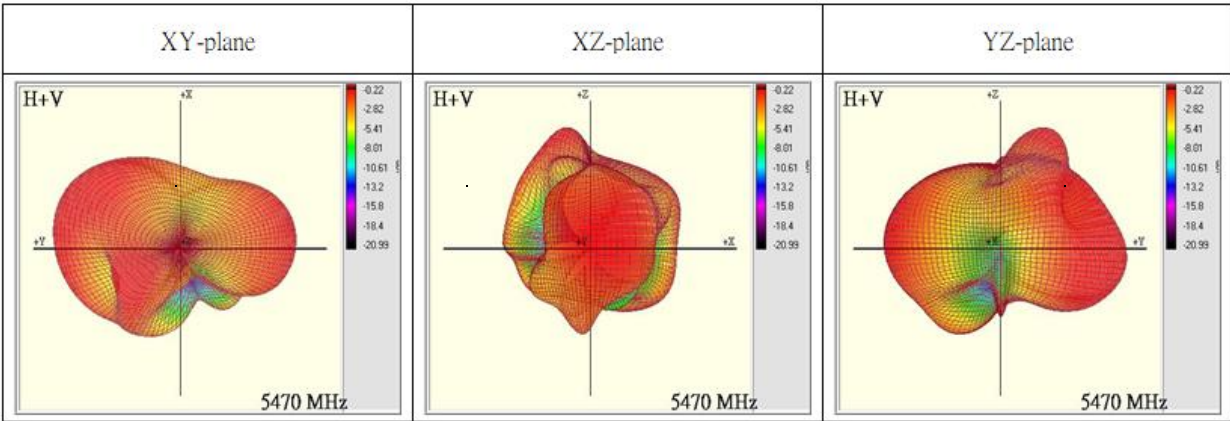
Aux Antenna 3D Radiation Pattern 5250 – 5350 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5250-5350	1.39



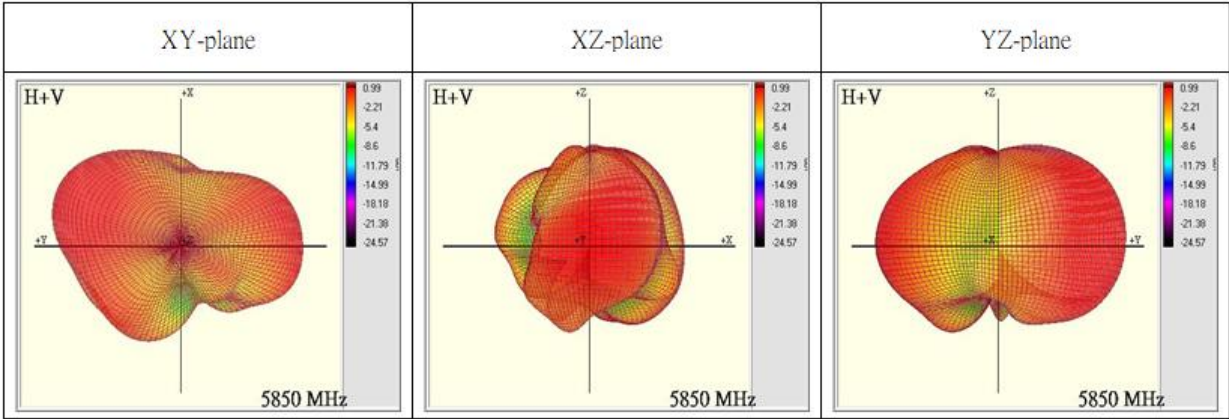
Aux Antenna 3D Radiation Pattern 5470 – 5725 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5470-5725	3.62



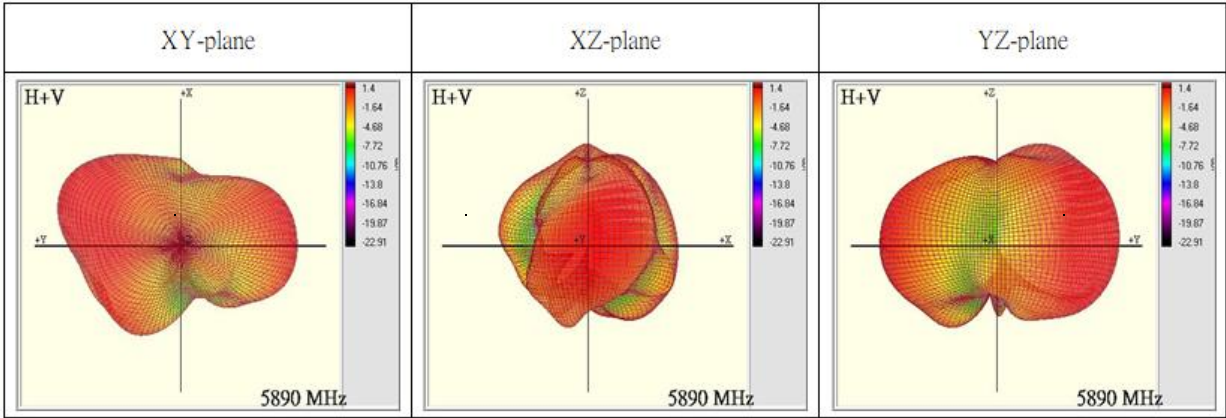
Aux Antenna 3D Radiation Pattern 5725 – 5850 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5725-5850	2.62



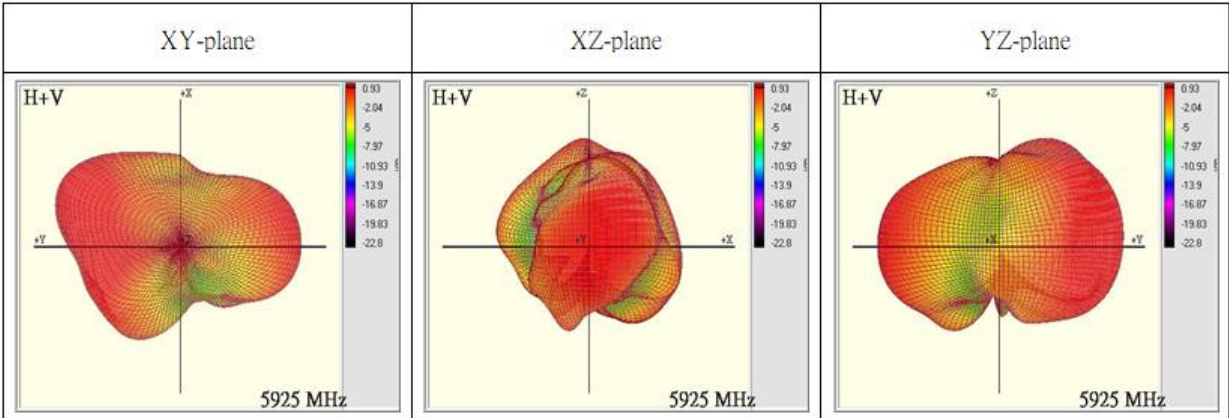
Aux Antenna 3D Radiation Pattern 5850 – 5895 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5850-5895	3.35



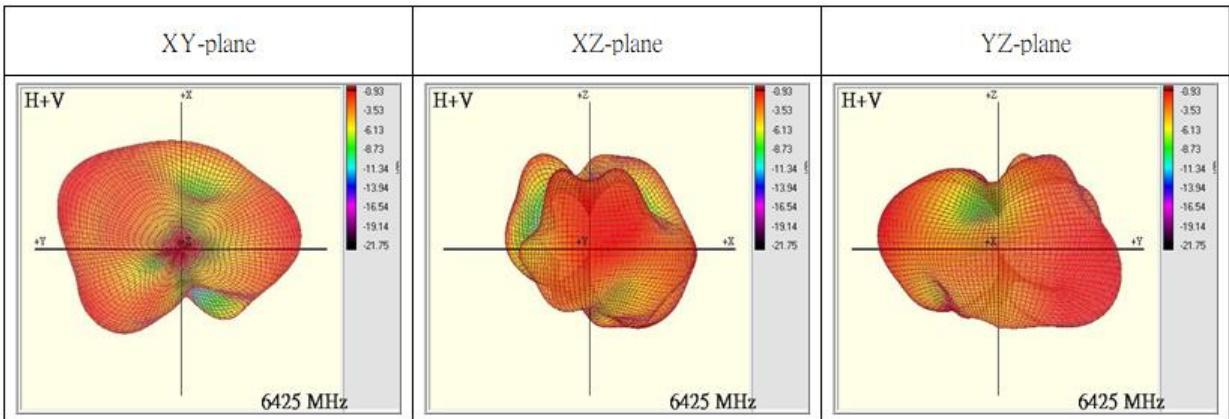
Aux Antenna 3D Radiation Pattern 5925 – 6425 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5925-6425	2.16



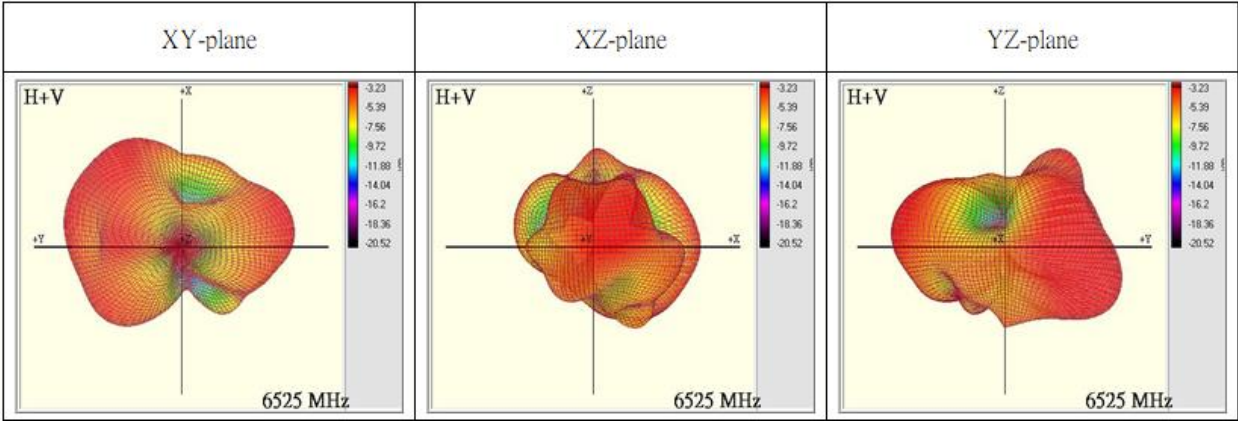
Aux Antenna 3D Radiation Pattern 6425 – 6525 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6425-6525	1.58



Aux Antenna 3D Radiation Pattern 6525 – 6875 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6525-6875	1.18



Aux Antenna 3D Radiation Pattern 6875 – 7125 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6875-7125	1.24

