Regulatory WLAN Antenna Information

Platform information			
Brand	**ODM**	**End product model name**	**Platform type** (ex: regular NB, convertible PC, AIO…etc)
ASUS	**Inventec**	**主型號: FA401** **系列型號:** **FA401U、FA401W**	**Regular NB**

Antenna information			
Vendor	**Type**	**Antenna Part number** (Main)	**Antenna Part number** (Aux)
AWAN	**PIFA**	**AYP6Y-100509**	**AYP6Y-100510**

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	1.71	3.36	3.20	3.64	3.89	3.72	3.98	3.06	3.41	2.80
Aux	1.19	2.98	2.98	3.46	3.18	4.06	3.77	2.43	3.18	0.42

All Antenna peak gain should be less the Antenna Net Gain spec as below: (MT7922A22M)

2. The antennas provided to the EUT, please refer to the following table:

Antenna No.	RF Chain No.	Brand	Model	Antenna Net Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type	Cable Length (mm)
1	Chain0	PSA	RFMTA340718EML B302	3.18 4.92	2.4~2.4835 5.15~5.85	PIFA	i-pex(MHF)	200
2	Chain1	PSA	RFMTA340718EML B302	3.18 4.92	2.4~2.4835 5.15~5.85	PIFA	i-pex(MHF)	200
3	Chain0	PSA	RFMTA311020EM MB301	1.71 4.82 4.76 4.29 4.61 4.09	2.4~2.4835 5.15~5.85 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	PIFA	i-pex(MHF)	200
4	Chain1	PSA	RFMTA311020EM MB301	1.71 4.82 4.76 4.29 4.61 4.09	2.4~2.4835 5.15~5.85 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	PIFA	i-pex(MHF)	200

Note: For PIFA Antenna, max. gain was selected for the final test.

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-100509 Main Antenna	AWAN	PIFA	50 ohm Coaxial length: 126 mm diameter: 1.13 mm Normal Cable Connector : I-PEX IV	2400-2483.5	1.71	2.02	5.0	0.31
				5150-5250	3.36	3.80	5.0	0.44
				5250-5350	3.20	3.66	5.0	0.46
				5470-5725	3.64	4.11	5.0	0.47
				5725-5850	3.89	4.37	5.0	0.48
				5850-5895	3.72	4.24	5.0	0.52
				5925-6425	3.98	4.51	5.0	0.53
				6425-6525	3.06	3.60	5.0	0.54
				6525-6875	3.41	3.96	5.0	0.55
				6875-7125	2.80	3.36	5.0	0.56
P/N: AYP6Y-100510 Aux Antenna	AWAN	PIFA	50 ohm Coaxial length: 329 mm diameter: 1.13 mm Normal Cable Connector : I-PEX IV	2400-2483.5	1.19	1.97	5.0	0.78
				5150-5250	2.98	4.09	5.0	1.11
				5250-5350	2.98	4.14	5.0	1.16
				5470-5725	3.46	4.64	5.0	1.18
				5725-5850	3.18	4.38	5.0	1.20
				5850-5895	4.06	5.31	5.0	1.25
				5925-6425	3.77	5.02	5.0	1.25
				6425-6525	2.43	3.73	5.0	1.30
				6525-6875	3.18	4.49	5.0	1.31
				6875-7125	0.42	1.74	5.0	1.32

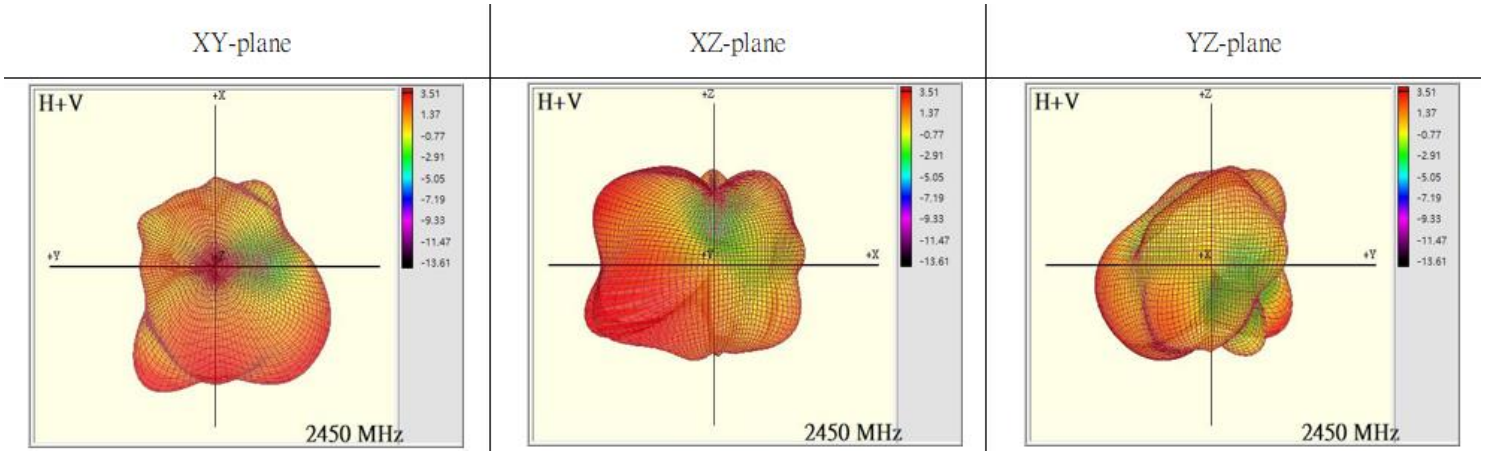
- **3D Antenna Peak Gain required being test in system basis.**

Section 2. Radiation characteristics of antenna loaded in Host Platform

Main Antenna

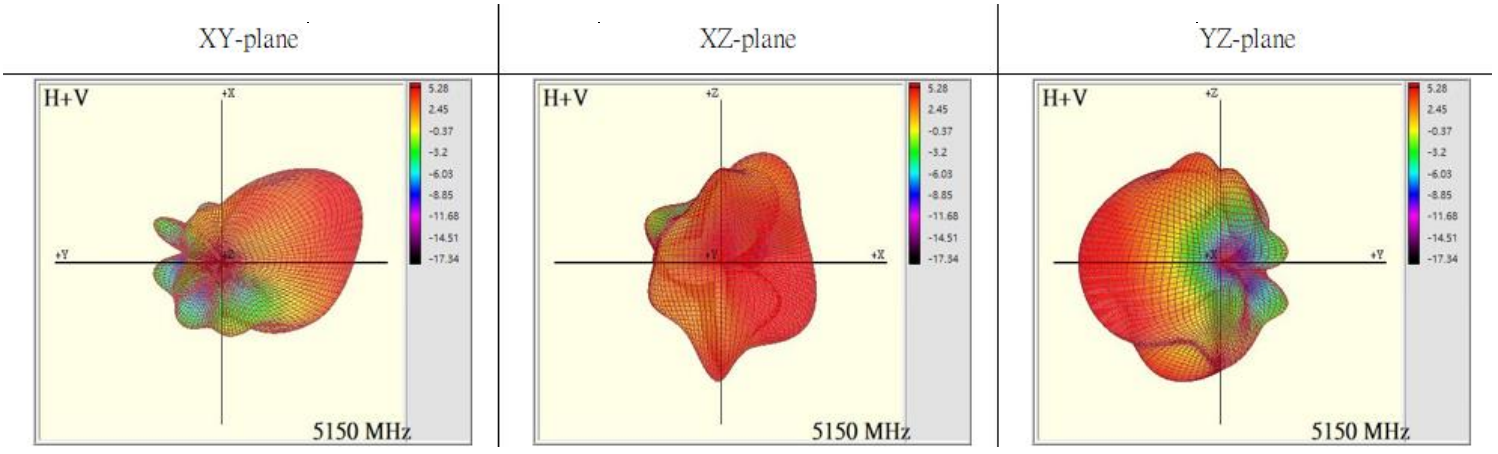
Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
2400-2483.5	1.71



Max Antenna 3D Radiation Pattern 5150 – 5250 MHz

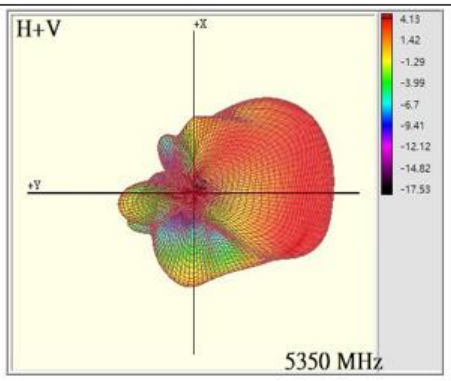
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5150-5250	3.36



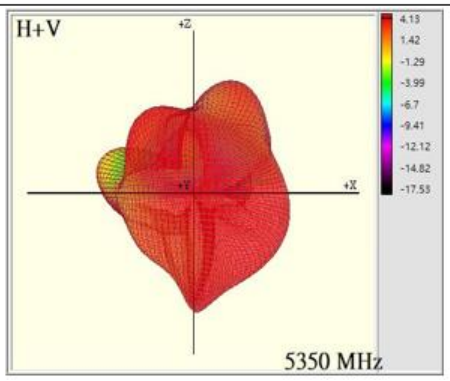
Max Antenna 3D Radiation Pattern 5250 – 5350 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5250-5350	3.20

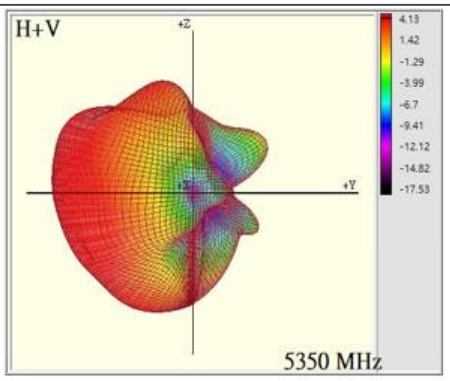
XY-plane



XZ-plane



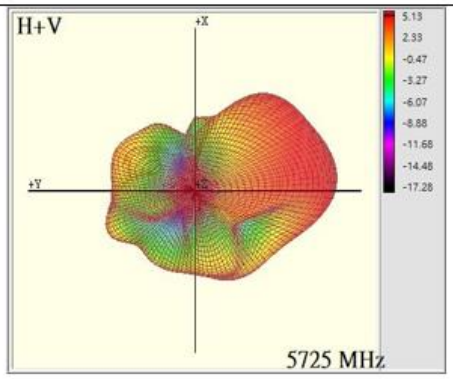
YZ-plane



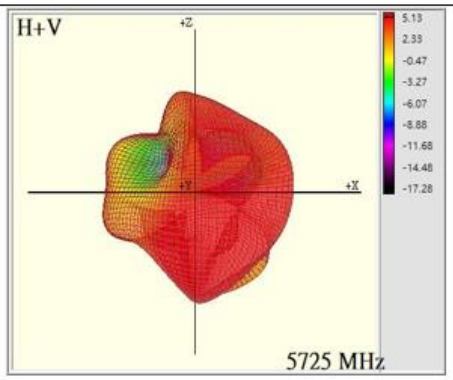
Max Antenna 3D Radiation Pattern 5470 – 5725 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5470-5725	3.64

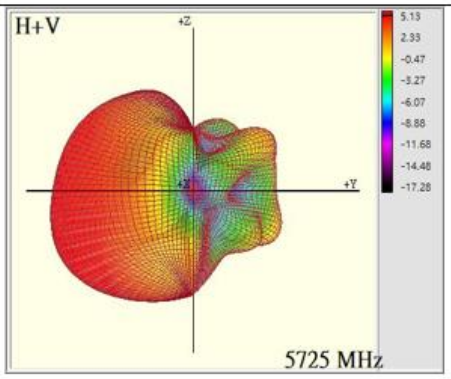
XY-plane



XZ-plane

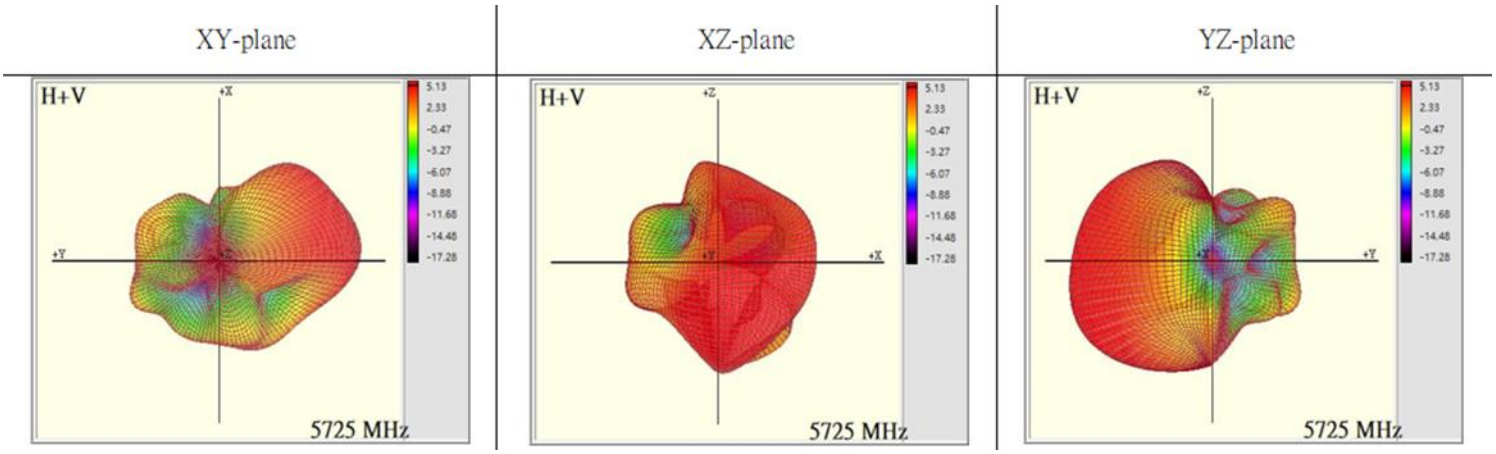


YZ-plane



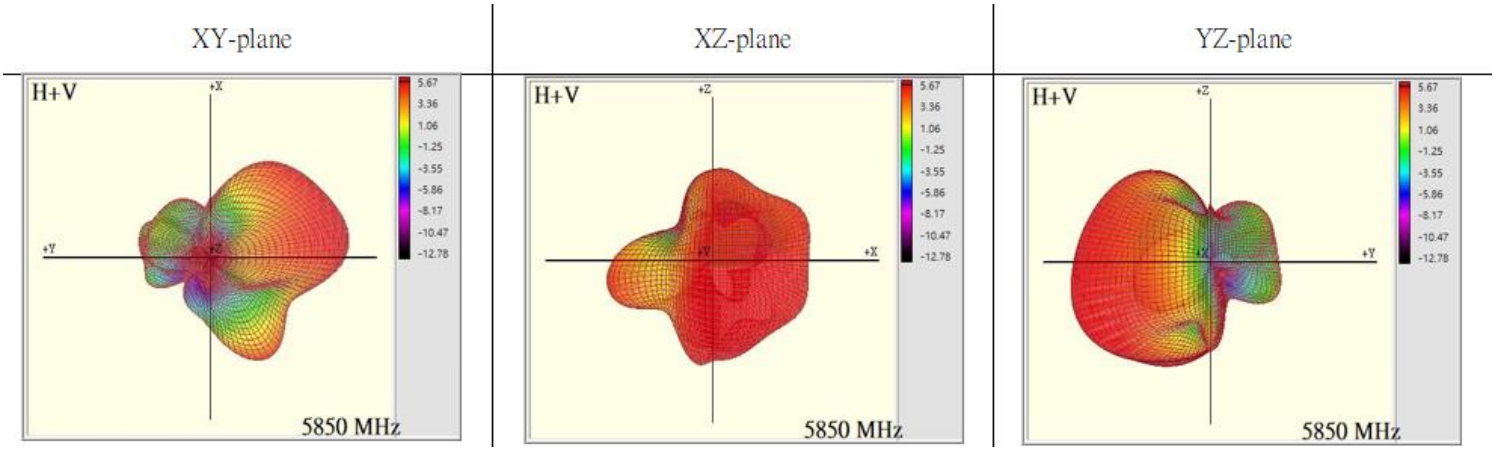
Max Antenna 3D Radiation Pattern 5725 – 5850 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5725-5850	3.89



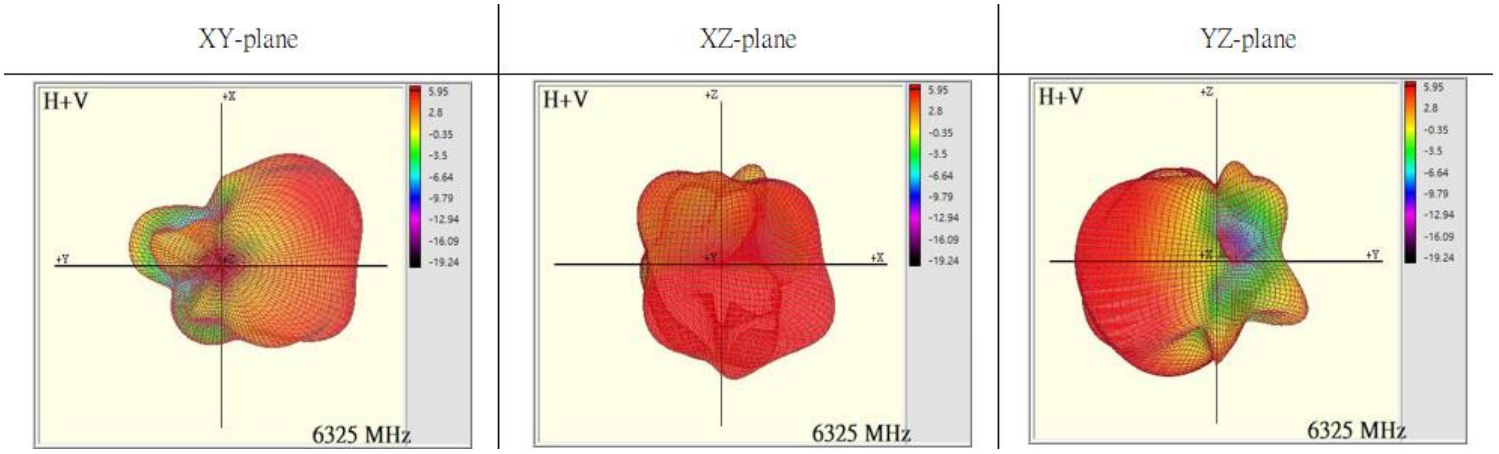
Max Antenna 3D Radiation Pattern 5850 – 5895 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5850-5895	3.72



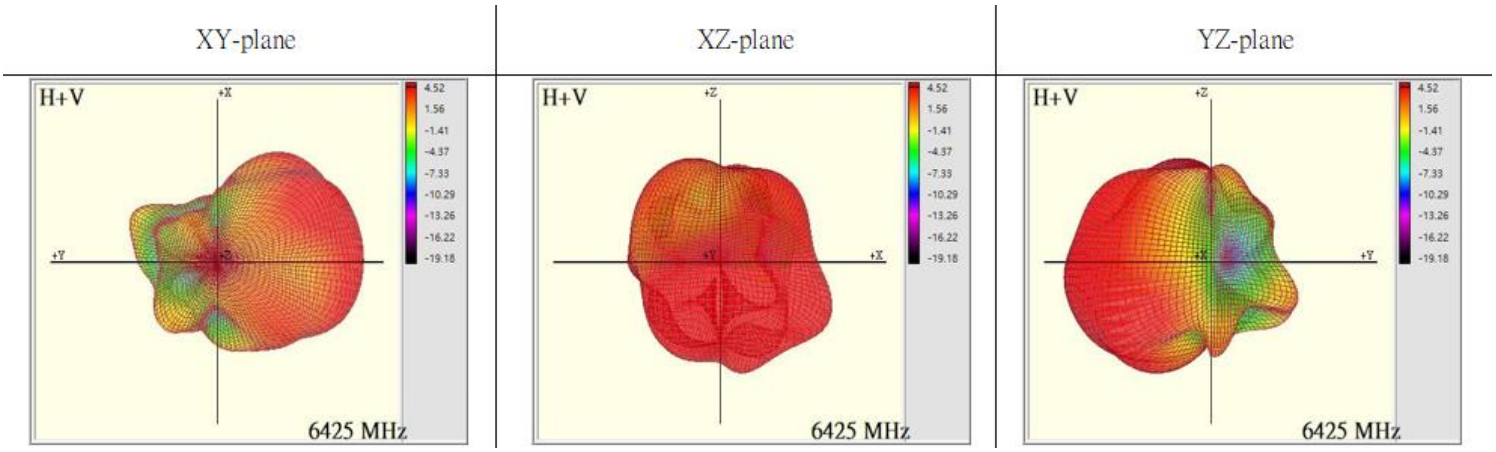
Max Antenna 3D Radiation Pattern 5925 – 6425 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5925-6425	3.98



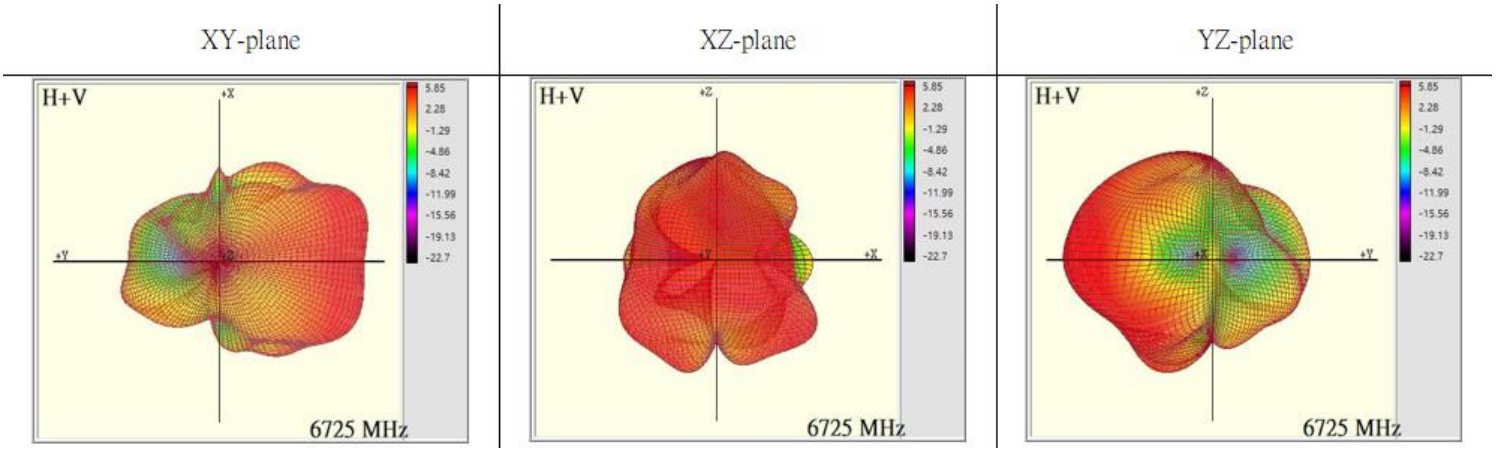
Max Antenna 3D Radiation Pattern 6425 – 6525 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6425-6525	3.06



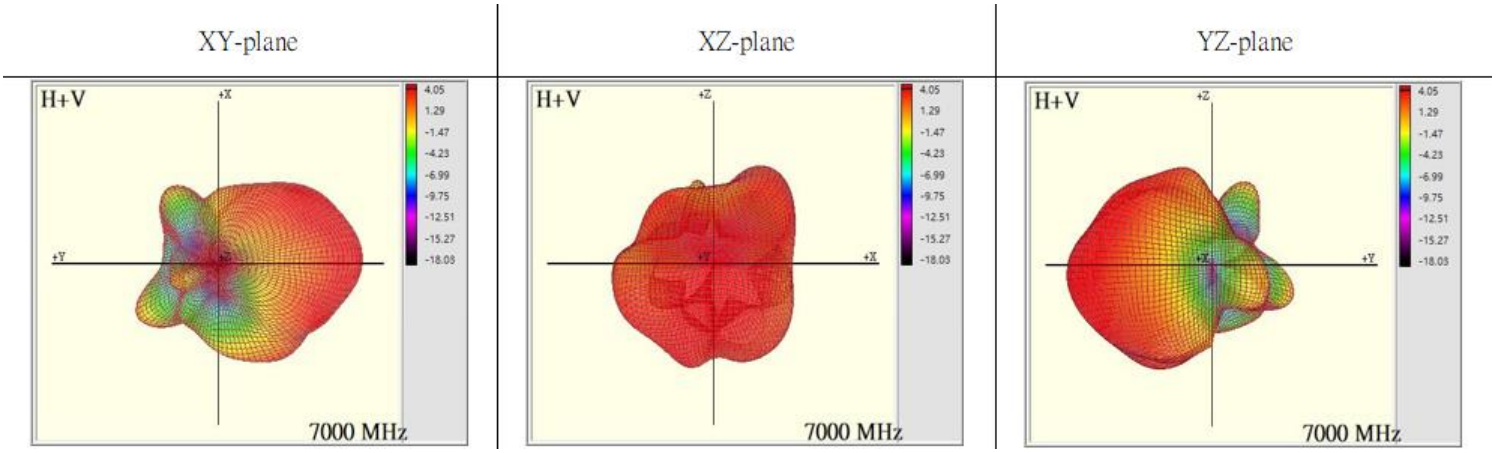
Max Antenna 3D Radiation Pattern 6525 – 6875 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6525-6875	3.41



Max Antenna 3D Radiation Pattern 6575 – 7125 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6875-7125	2.80

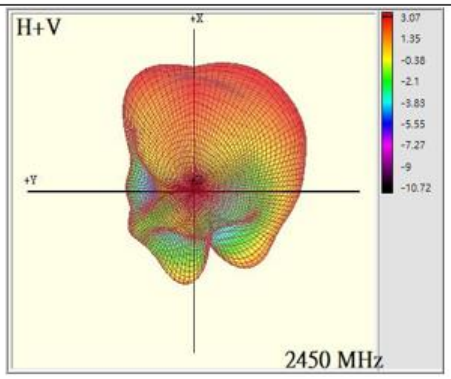


Auxiliary Antenna

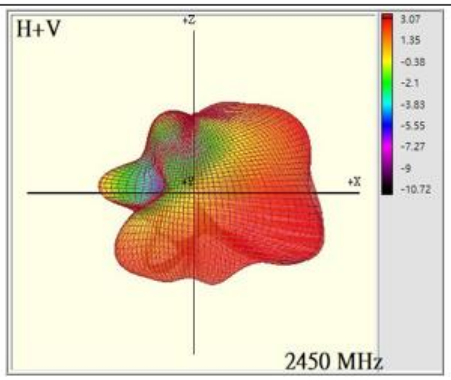
Aux Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
2400-2483.5	1.19

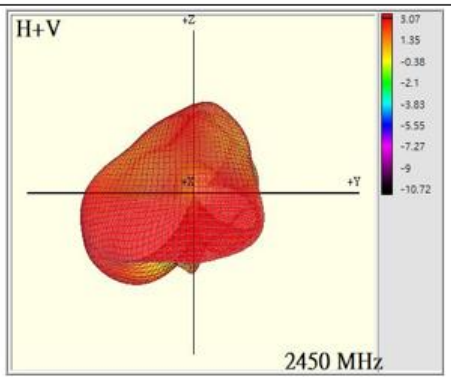
XY-plane



XZ-plane



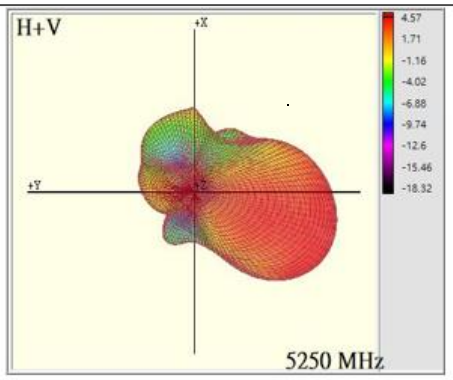
YZ-plane



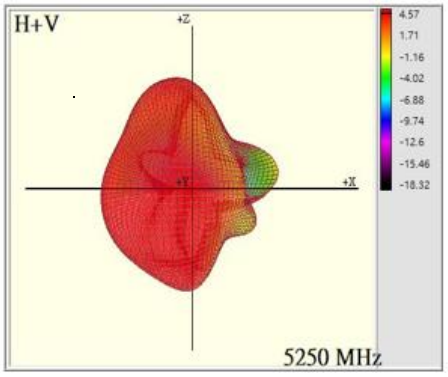
Aux Antenna 3D Radiation Pattern 5150 – 5250 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5150-5250	2.98

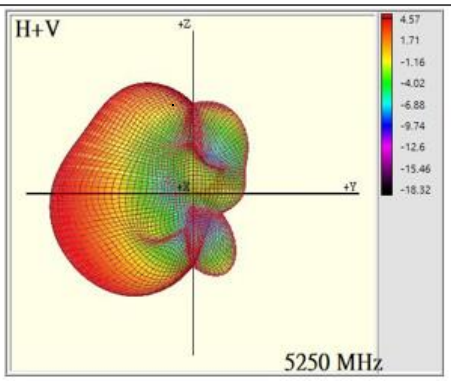
XY-plane



XZ-plane



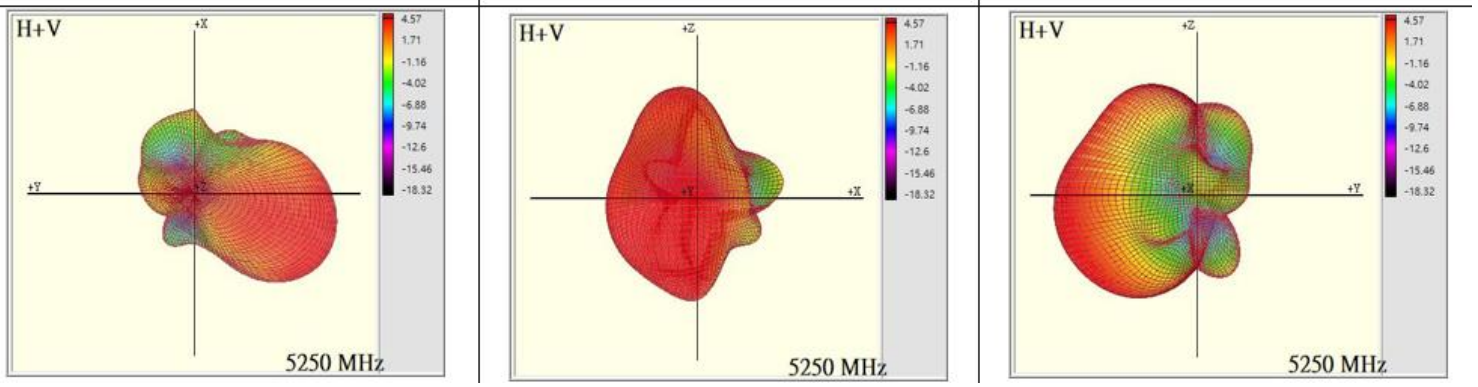
YZ-plane



Aux Antenna 3D Radiation Pattern 5250 – 5350 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5250-5350	2.98

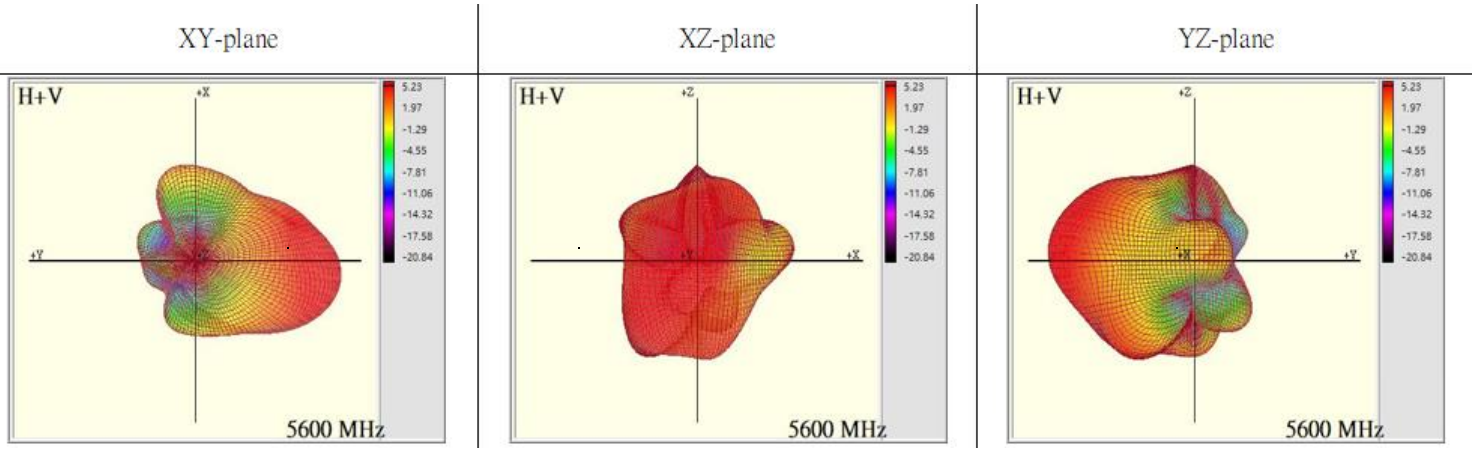
XY-plane | XZ-plane | YZ-plane



Aux Antenna 3D Radiation Pattern 5470 – 5725 MHz

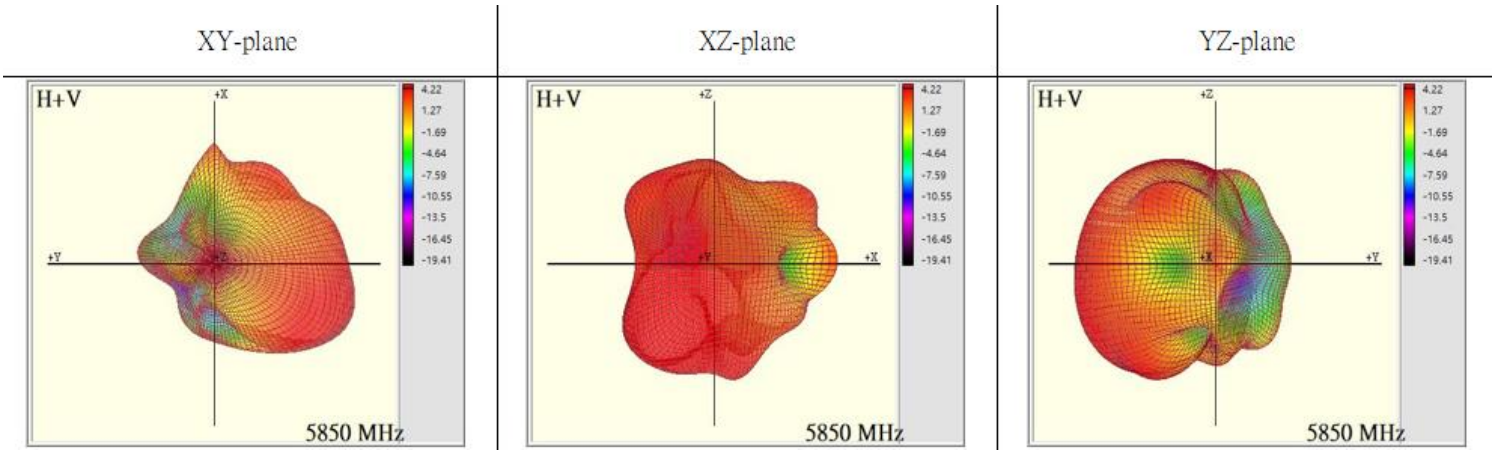
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5470-5725	3.46

XY-plane | XZ-plane | YZ-plane



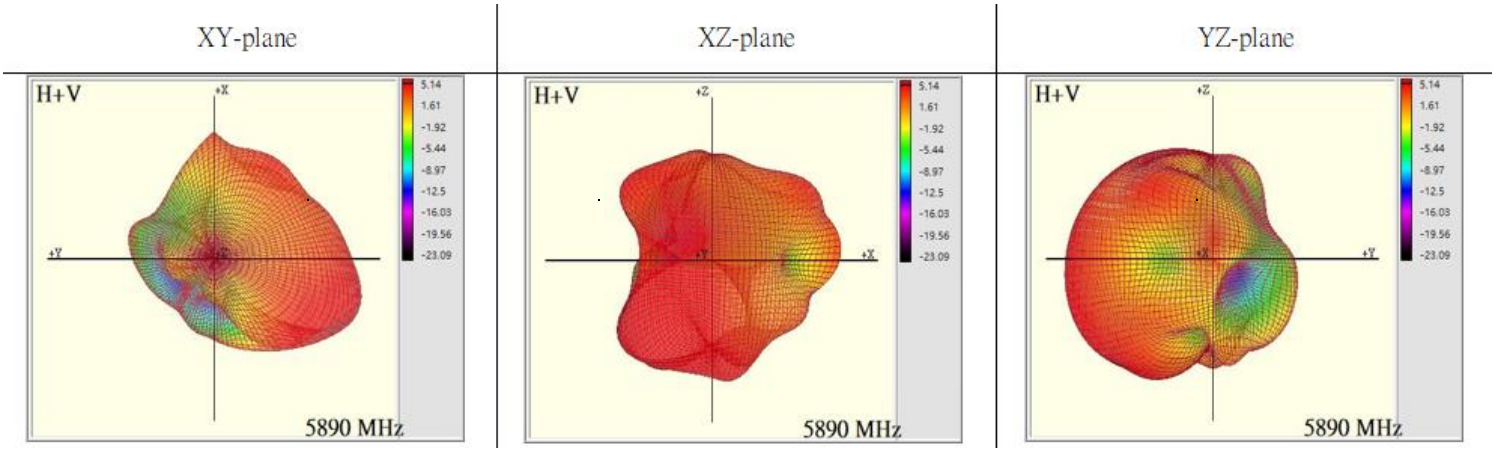
Aux Antenna 3D Radiation Pattern 5725 – 5850 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5725-5850	3.18



Aux Antenna 3D Radiation Pattern 5850 – 5895 MHz

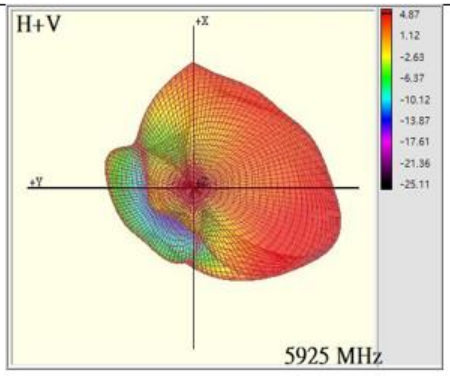
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5850-5895	4.06



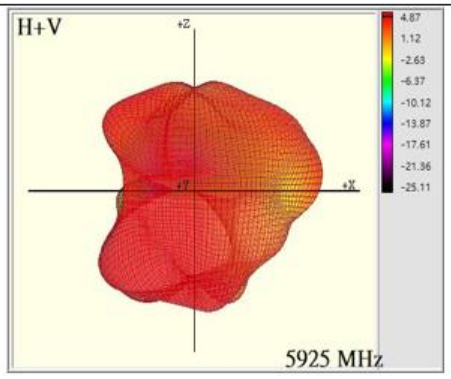
Aux Antenna 3D Radiation Pattern 5925 – 6425 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5925-6425	3.77

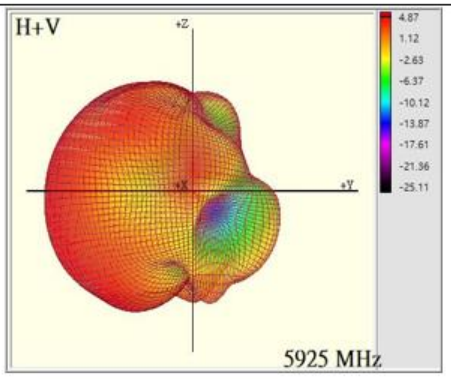
XY-plane



XZ-plane



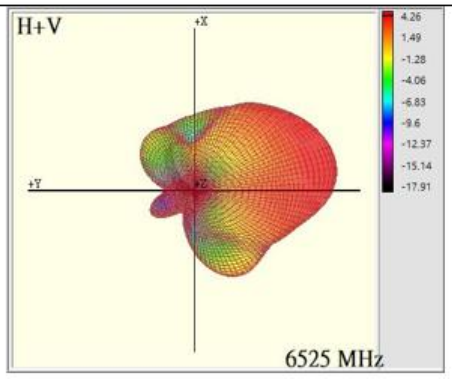
YZ-plane



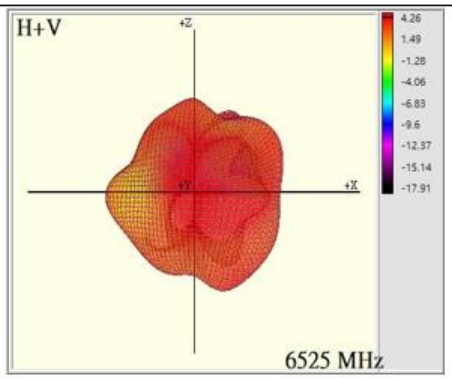
Aux Antenna 3D Radiation Pattern 6425 – 6525 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6425-6525	2.43

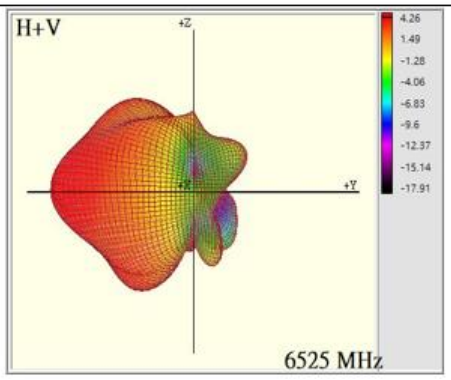
XY-plane



XZ-plane



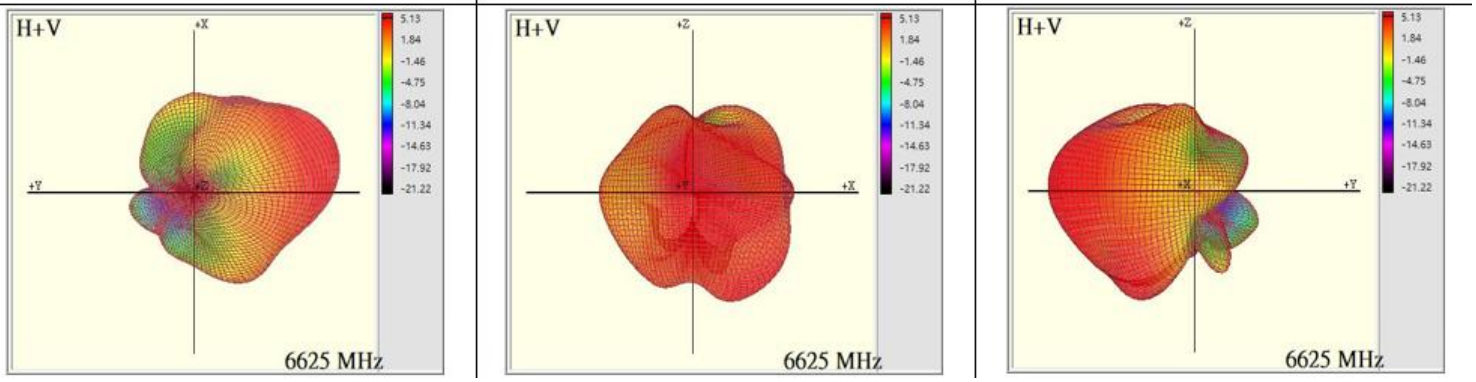
YZ-plane



Aux Antenna 3D Radiation Pattern 6525 – 6875 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6525-6875	3.18

XY-plane | XZ-plane | YZ-plane



Aux Antenna 3D Radiation Pattern 6875 – 7125 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6875-7125	0.42

XY-plane | XZ-plane | YZ-plane