

Regulatory WLAN Antenna Information

Platform information										
Brand		ODM		End product model name			Platform type (ex: regular NB, convertible PC, AIO...etc)			
ASUS		Inventec		M1807HA			Regular NB			
Antenna information										
Vendor		Type			Antenna Part number (Main)		Antenna Part number (Aux)			
INPAQ		PIFA			WA-P-LE-02-288		WA-P-LE-01-081			
Antenna Manufacturer Information										
INPAQ No.5,Chunqiu Road, Panyang Industrial Park Huangdai Town, Xiangcheng Zone, Suzhou ivanchang@inpaq.com.tw Ivan Chang 0917-035903										
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	1.53	1.33	0.81	1.85	2.58	2.58	2.46	0.96	0.79	0.75
Aux	1.74	0.59	0.88	0.65	1.75	1.18	0.83	0.89	1.01	0.85

Antenna Information

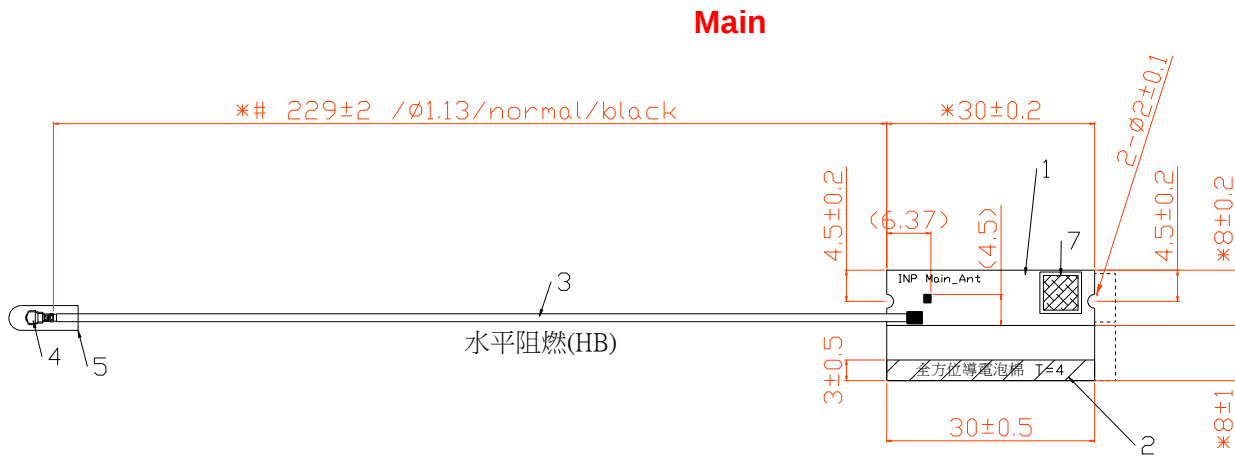
Section 1. Antenna Assembly Specifications

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: WA-P-LE-02-288 Main Antenna	INPAQ	PIFA	50 ohm Coaxial length: 229 mm diameter: 1.13 mm Normal Cable Connector : I-PEX-4L	2400-2483.5	1.53	2.36	5.00	0.83
				5150-5250	1.33	2.54	5.00	1.21
				5250-5350	0.81	2.04	5.00	1.23
				5470-5725	1.85	3.11	5.00	1.26
				5725-5850	2.58	3.86	5.00	1.28
				5850-5895	2.58	3.87	5.00	1.29
				5925-6425	2.46	3.81	5.00	1.35
				6425-6525	0.96	2.34	5.00	1.38
				6525-6875	0.79	2.21	5.00	1.42
				6875-7125	0.75	2.22	5.00	1.47
P/N: WA-P-LE-01-081 Aux Antenna	INPAQ	PIFA	50 ohm Coaxial length: 487 mm diameter: 1.13 mm Normal Cable Connector :I-PEX-4L	2400-2483.5	1.74	3.49	5.00	1.75
				5150-5250	0.59	3.17	5.00	2.58
				5250-5350	0.88	3.49	5.00	2.61
				5470-5725	0.65	3.32	5.00	2.67
				5725-5850	1.75	4.47	5.00	2.72
				5850-5895	1.18	3.92	5.00	2.74
				5925-6425	0.83	3.70	5.00	2.87
				6425-6525	0.89	3.83	5.00	2.94
				6525-6875	1.01	4.03	5.00	3.02
				6875-7125	0.85	3.97	5.00	3.12

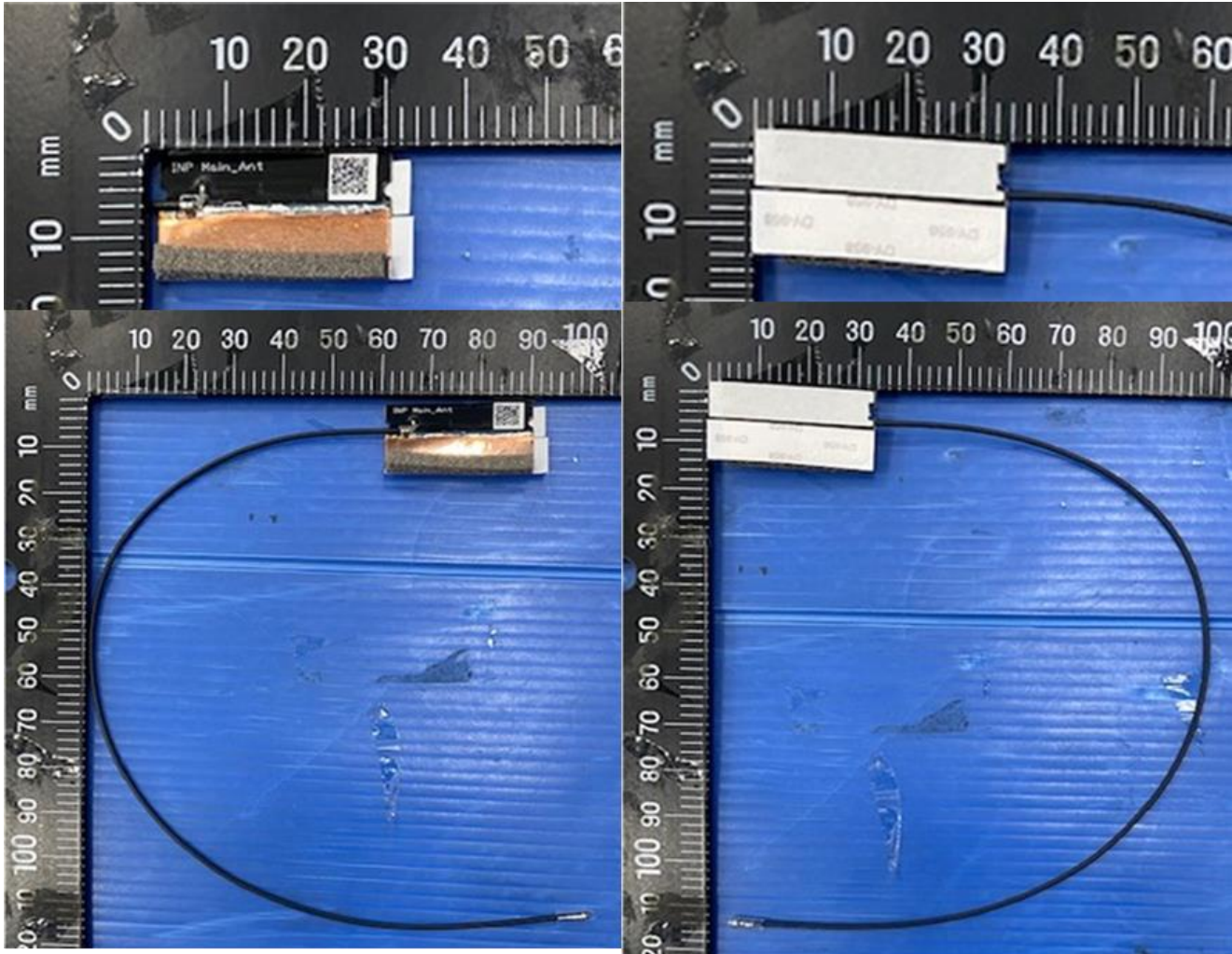
- 3D Antenna Peak Gain required being test in system basis.

Section 2. Dimensioned Photos and Drawings of Antennas

Main Antenna Drawing:



Main Antenna Photo (Front/Back):

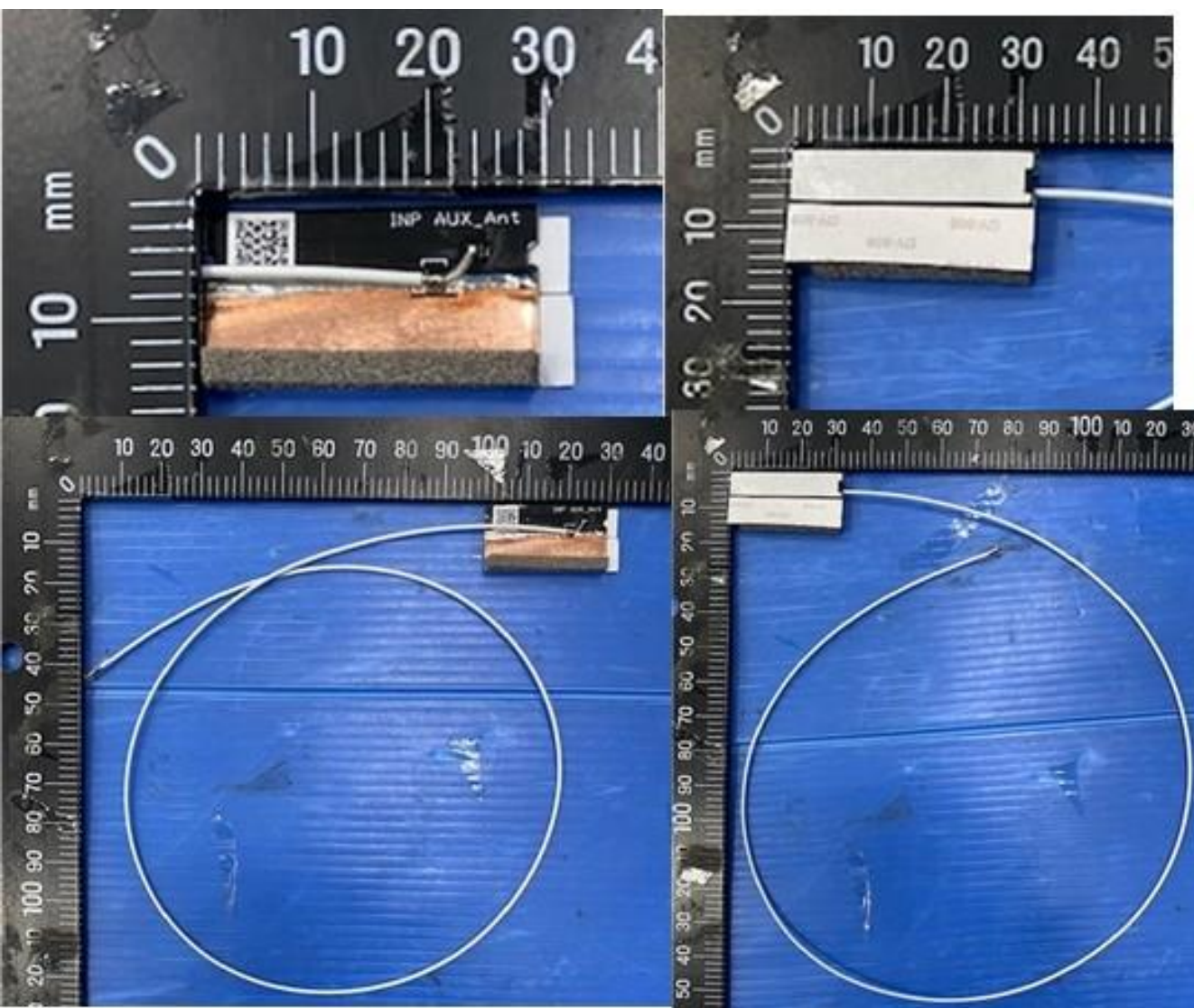


Aux Antenna Photo (Front/Back):

Technical drawing of the antenna assembly showing dimensions and components. The drawing includes a side view of the antenna cable and a cross-sectional view of the antenna housing. Key dimensions and components are labeled:

- Antenna Cable:** *# 487±3 /ø1.13/normal/white
- Horizontal Flame Retardant (HB):** 水平阻燃(HB)
- Antenna Housing Dimensions:**
 - Overall length: 30±0.2
 - Top flange thickness: 4.5±0.2
 - Bottom flange thickness: 4.5±0.2
 - Bottom flange width: 3±0.5
 - Bottom flange length: 30±0.5
- Internal Components and Dimensions:**
 - Component 1: Antenna element, length 10.47
 - Component 7: Antenna element, length 5.37
 - Component 3: Antenna element, length 4.5
 - Component 4: Antenna element, length 3
 - Component 5: Antenna element, length 3
 - Component 6: Antenna element, length 3
 - Component 8: Antenna element, length 3
 - Component 9: Antenna element, length 3
 - Component 10: Antenna element, length 3
 - Component 11: Antenna element, length 3
 - Component 12: Antenna element, length 3
 - Component 13: Antenna element, length 3
 - Component 14: Antenna element, length 3
 - Component 15: Antenna element, length 3
 - Component 16: Antenna element, length 3
 - Component 17: Antenna element, length 3
 - Component 18: Antenna element, length 3
 - Component 19: Antenna element, length 3
 - Component 20: Antenna element, length 3
 - Component 21: Antenna element, length 3
 - Component 22: Antenna element, length 3
 - Component 23: Antenna element, length 3
 - Component 24: Antenna element, length 3
 - Component 25: Antenna element, length 3
 - Component 26: Antenna element, length 3
 - Component 27: Antenna element, length 3
 - Component 28: Antenna element, length 3
 - Component 29: Antenna element, length 3
 - Component 30: Antenna element, length 3
 - Component 31: Antenna element, length 3
 - Component 32: Antenna element, length 3
 - Component 33: Antenna element, length 3
 - Component 34: Antenna element, length 3
 - Component 35: Antenna element, length 3
 - Component 36: Antenna element, length 3
 - Component 37: Antenna element, length 3
 - Component 38: Antenna element, length 3
 - Component 39: Antenna element, length 3
 - Component 40: Antenna element, length 3
 - Component 41: Antenna element, length 3
 - Component 42: Antenna element, length 3
 - Component 43: Antenna element, length 3
 - Component 44: Antenna element, length 3
 - Component 45: Antenna element, length 3
 - Component 46: Antenna element, length 3
 - Component 47: Antenna element, length 3
 - Component 48: Antenna element, length 3
 - Component 49: Antenna element, length 3
 - Component 50: Antenna element, length 3
 - Component 51: Antenna element, length 3
 - Component 52: Antenna element, length 3
 - Component 53: Antenna element, length 3
 - Component 54: Antenna element, length 3
 - Component 55: Antenna element, length 3
 - Component 56: Antenna element, length 3
 - Component 57: Antenna element, length 3
 - Component 58: Antenna element, length 3
 - Component 59: Antenna element, length 3
 - Component 60: Antenna element, length 3
 - Component 61: Antenna element, length 3
 - Component 62: Antenna element, length 3
 - Component 63: Antenna element, length 3
 - Component 64: Antenna element, length 3
 - Component 65: Antenna element, length 3
 - Component 66: Antenna element, length 3
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 - Component 68: Antenna element, length 3
 - Component 69: Antenna element, length 3
 - Component 70: Antenna element, length 3
 - Component 71: Antenna element, length 3
 - Component 72: Antenna element, length 3
 - Component 73: Antenna element, length 3
 - Component 74: Antenna element, length 3
 - Component 75: Antenna element, length 3
 - Component 76: Antenna element, length 3
 - Component 77: Antenna element, length 3
 - Component 78: Antenna element, length 3
 - Component 79: Antenna element, length 3
 - Component 80: Antenna element, length 3
 - Component 81: Antenna element, length 3
 - Component 82: Antenna element, length 3
 - Component 83: Antenna element, length 3
 - Component 84: Antenna element, length 3
 - Component 85: Antenna element, length 3
 - Component 86: Antenna element, length 3
 - Component 87: Antenna element, length 3
 - Component 88: Antenna element, length 3
 - Component 89: Antenna element, length 3
 - Component 90: Antenna element, length 3
 - Component 91: Antenna element, length 3
 - Component 92: Antenna element, length 3
 - Component 93: Antenna element, length 3
 - Component 94: Antenna element, length 3
 - Component 95: Antenna element, length 3
 - Component 96: Antenna element, length 3
 - Component 97: Antenna element, length 3
 - Component 98: Antenna element, length 3
 - Component 99: Antenna element, length 3
 - Component 100: Antenna element, length 3

Aux Antenna Photo (Front/Back):

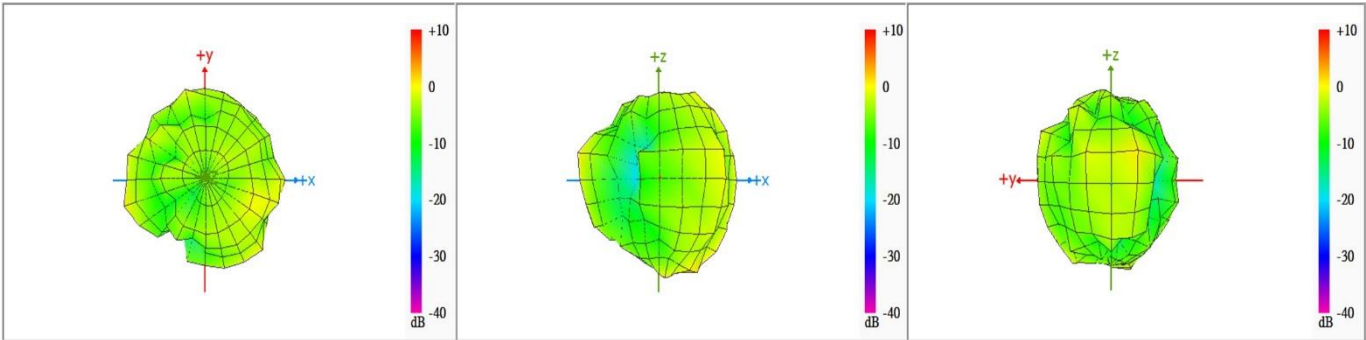


Section 3. Radiation characteristics of antenna loaded in Host Platform

Main Antenna

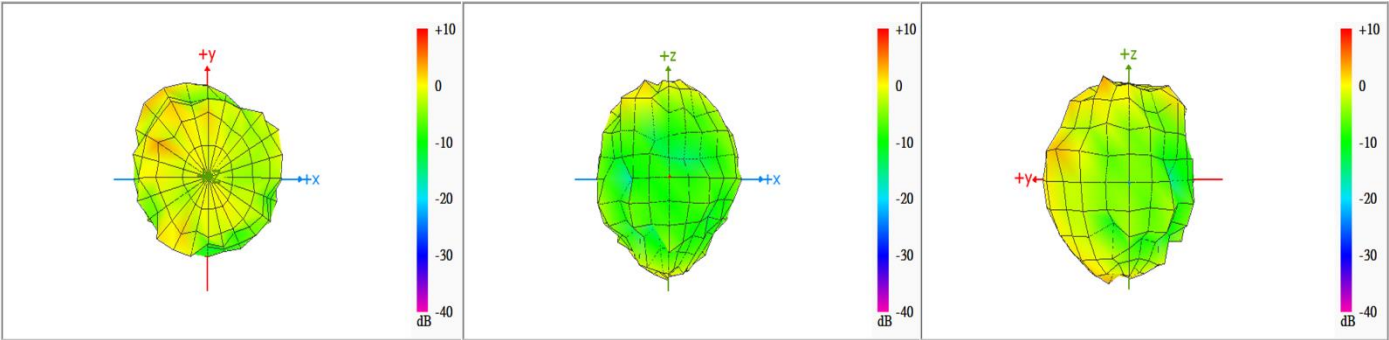
Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
2400-2483.5	1.53



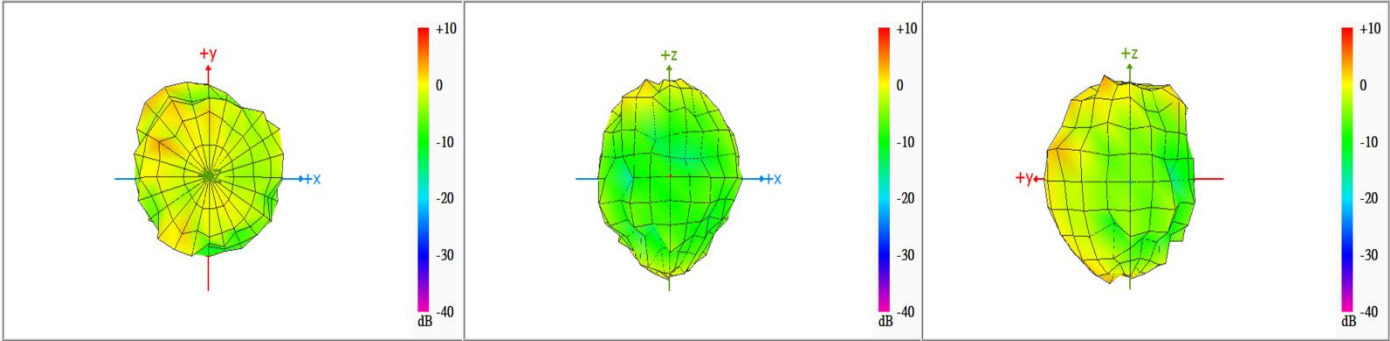
Max Antenna 3D Radiation Pattern 5150-5250 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5150-5250	1.33



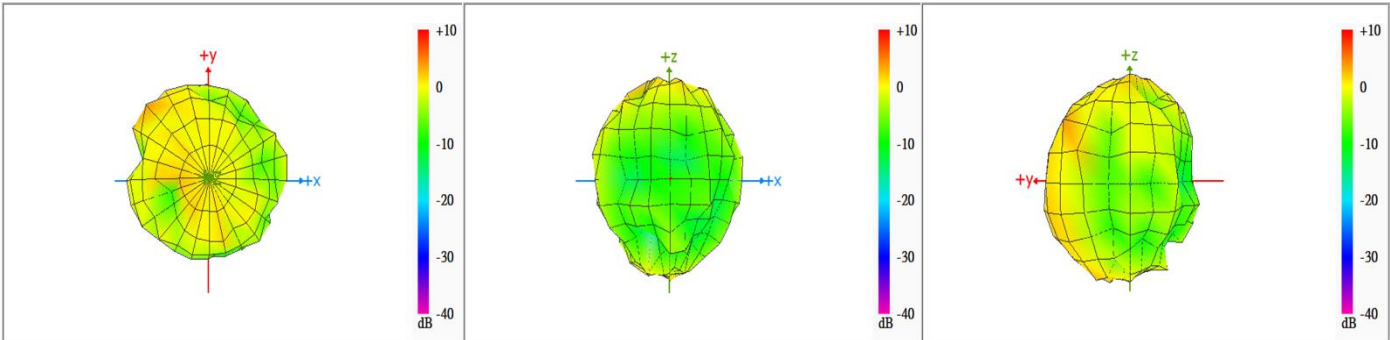
Max Antenna 3D Radiation Pattern 5250-5350 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5250-5350	0.81



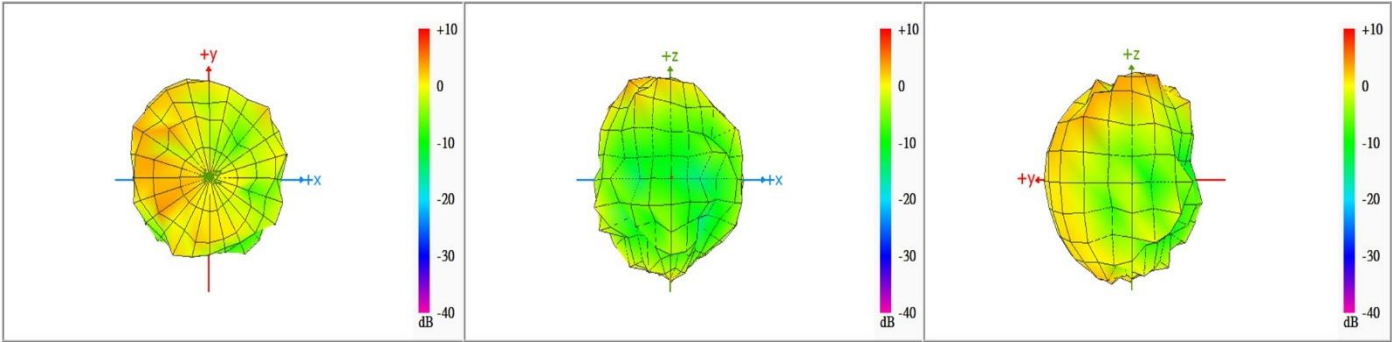
Max Antenna 3D Radiation Pattern 5470-5725 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5470-5725	1.85



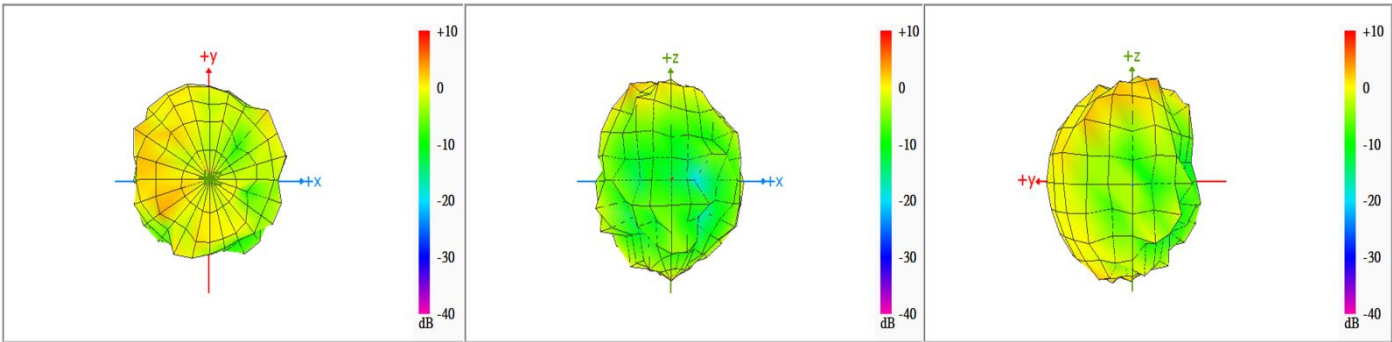
Max Antenna 3D Radiation Pattern 5725-5850 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5725-5850	2.58



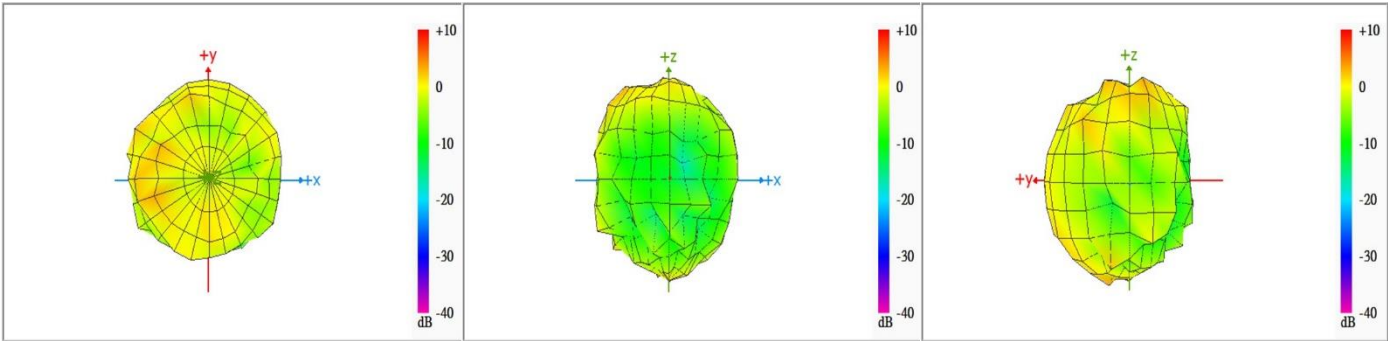
Max Antenna 3D Radiation Pattern 5850-5895 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5850-5895	2.58



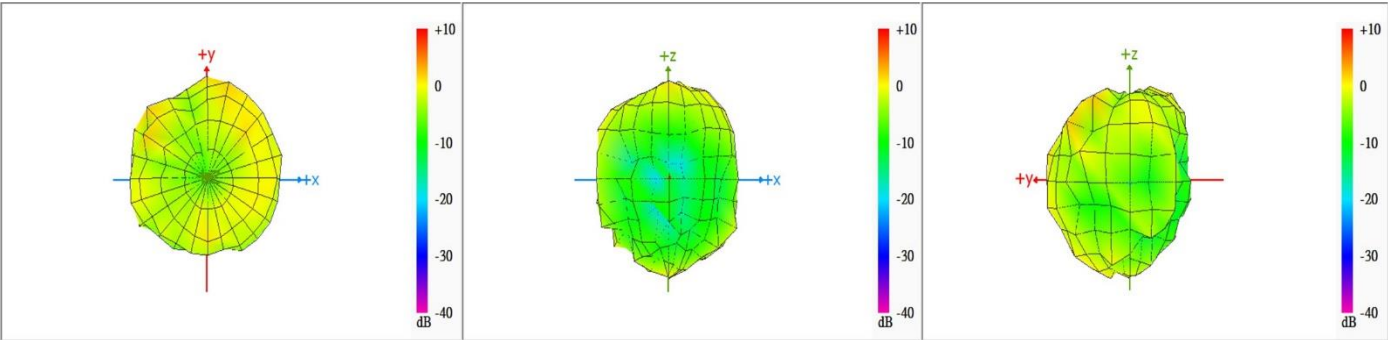
Max Antenna 3D Radiation Pattern 5925-6425 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5925-6425	2.46



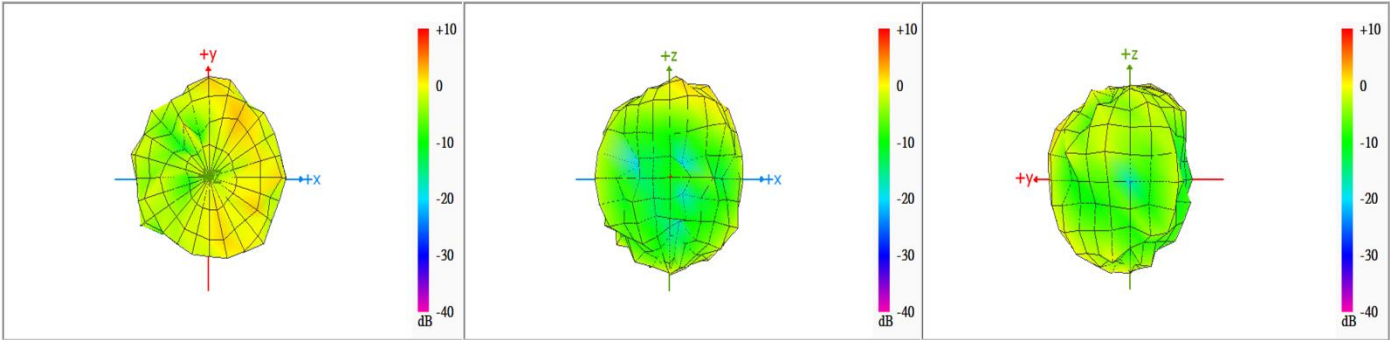
Max Antenna 3D Radiation Pattern 6425-6525 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6425-6525	0.96



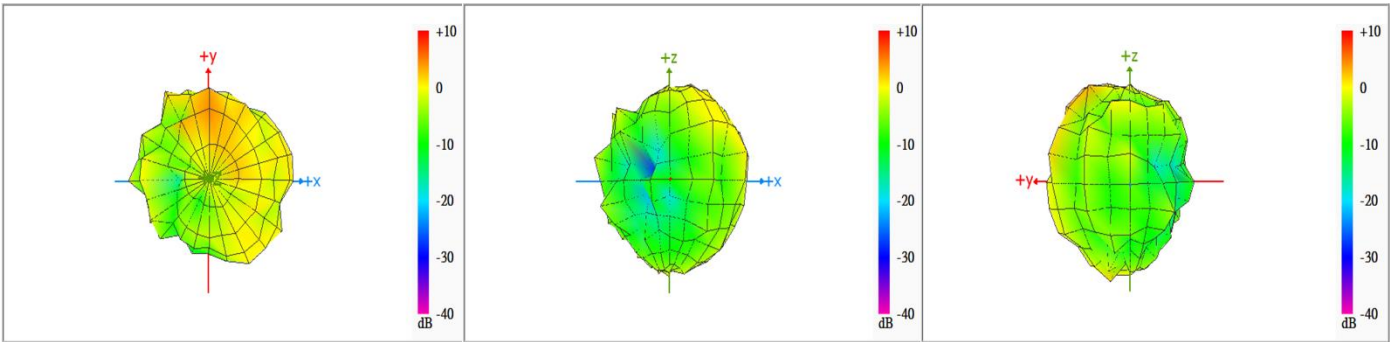
Max Antenna 3D Radiation Pattern 6525-6875 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6525-6875	0.79



Max Antenna 3D Radiation Pattern 6875-7125 MHz

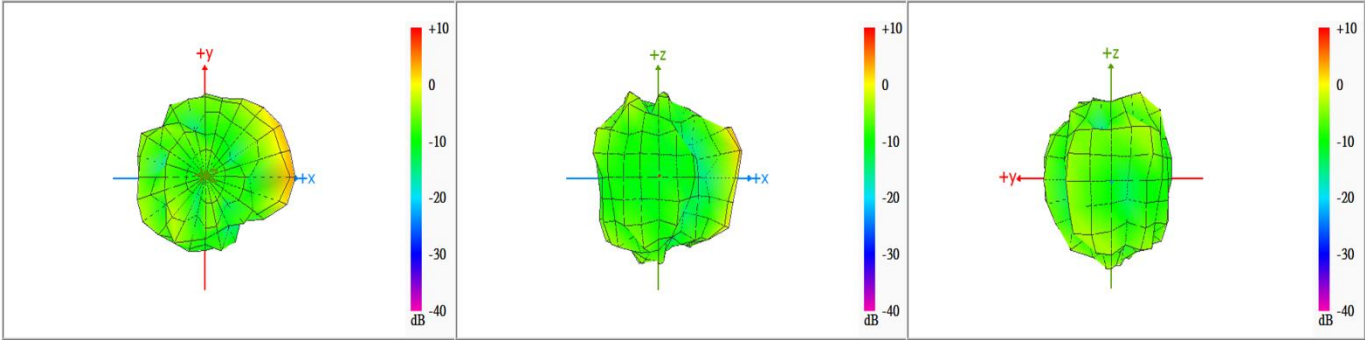
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6875-7125	0.75



Auxiliary Antenna

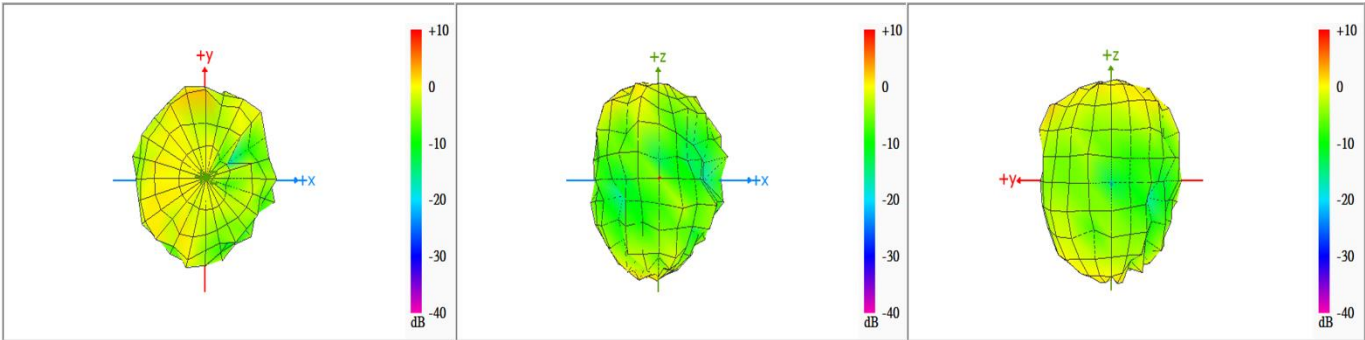
Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
2400-2483.5	1.74



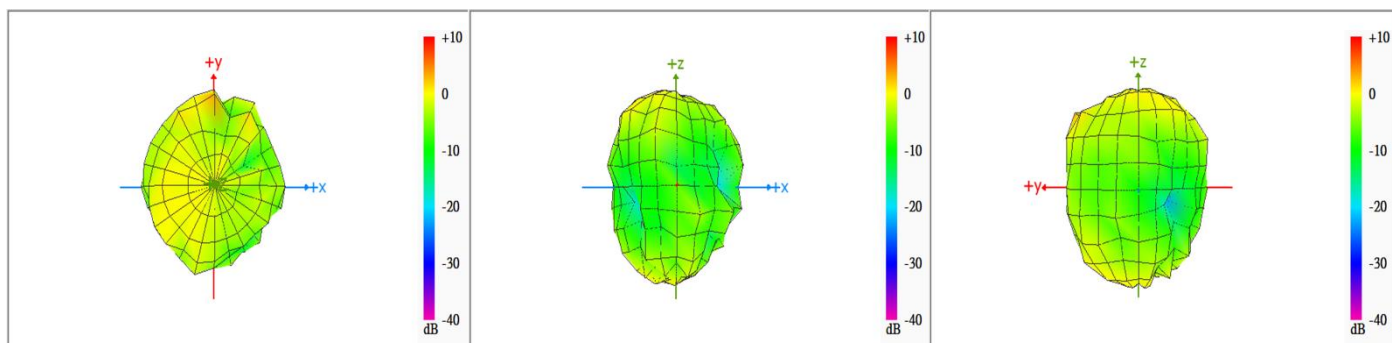
Max Antenna 3D Radiation Pattern 5150-5250 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5150-5250	0.59



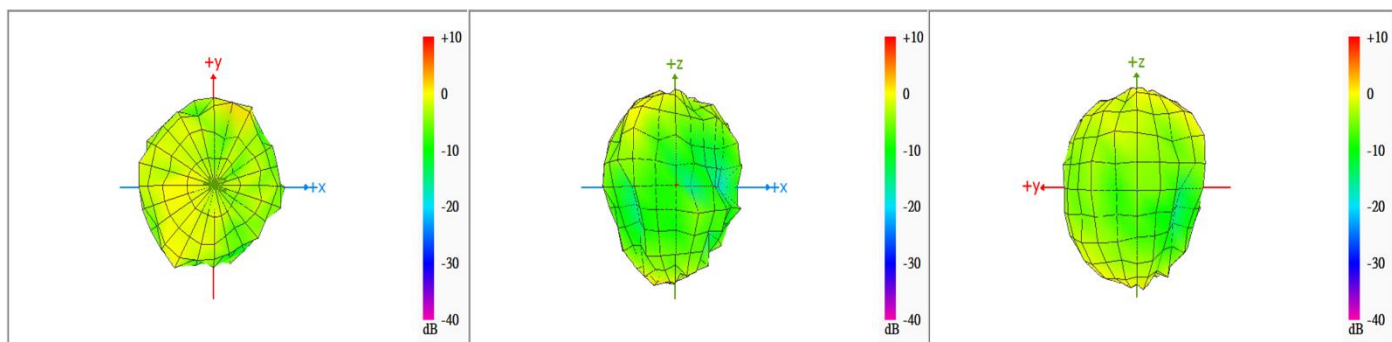
Max Antenna 3D Radiation Pattern 5250-5350 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5250-5350	0.88



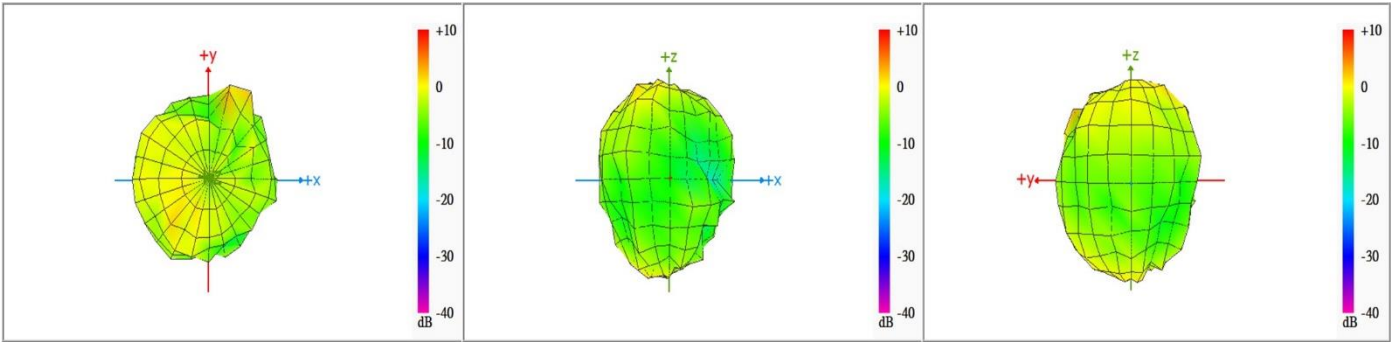
Max Antenna 3D Radiation Pattern 5470-5725 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5470-5725	0.65



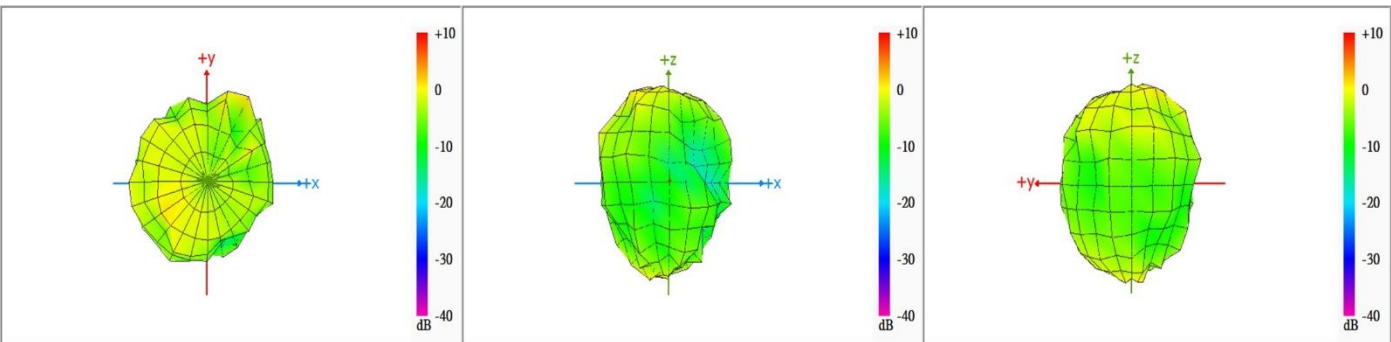
Max Antenna 3D Radiation Pattern 5725-5850 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5725-5850	1.75



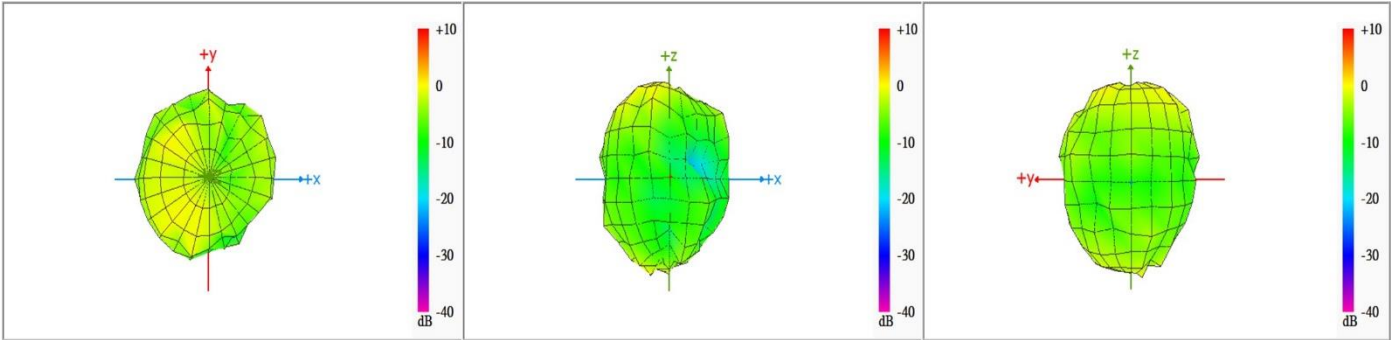
Max Antenna 3D Radiation Pattern 5850-5895 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5850-5895	1.18



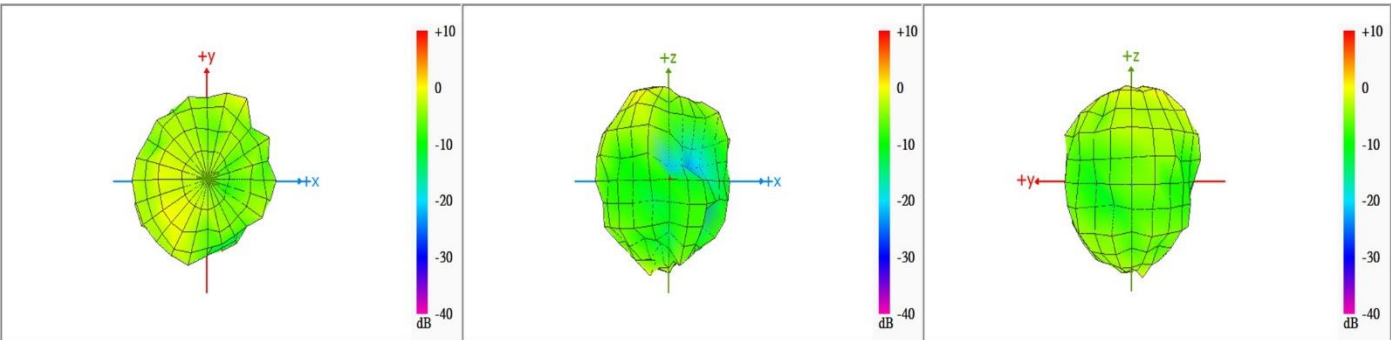
Max Antenna 3D Radiation Pattern 5925-6425 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5925-6425	0.83



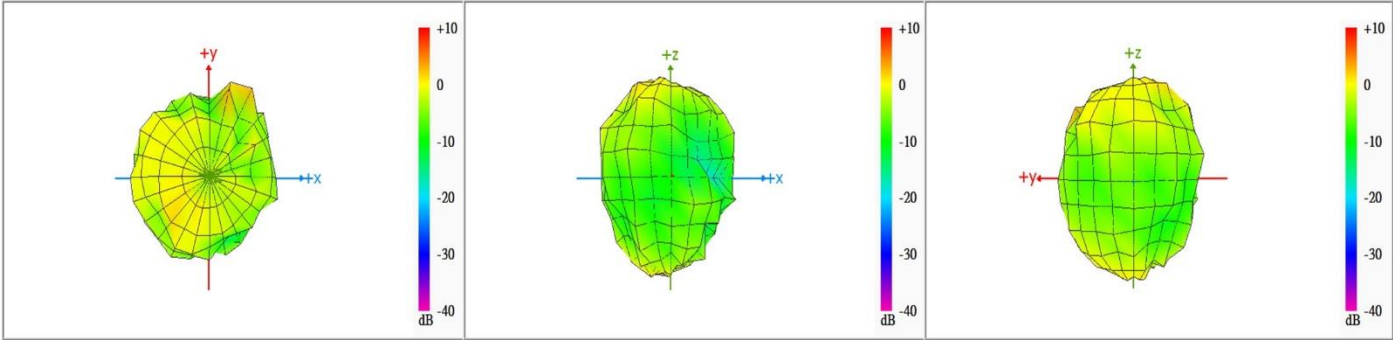
Max Antenna 3D Radiation Pattern 6425-6525 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6425-6525	0.89



Max Antenna 3D Radiation Pattern 6525-6875 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6525-6875	1.01



Max Antenna 3D Radiation Pattern 6875-7125 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6875-7125	0.85

