Regulatory WLAN Antenna Information

Platform information			
Brand	**ODM**	**End product model name**	**Platform type** (ex: regular NB, convertible PC, AIO…etc)
ASUS	**Inventec**	**M1407KA , M1407HA**	**Regular NB**

Antenna information			
Vendor	**Type**	**Antenna Part number** (Main)	**Antenna Part number** (Aux)
Pulse	**PIFA**	**6036B0372201 (TZ2950D)**	**6036B0372101 (TZ2950E)**

Antenna Manufacturer Information

Pulse
No.51, Jing 6th Road, N.E.P.Z., Kaohsiung 81170, Taiwan (R.O.C.)
T: +886 7 9618999
http:// www.pulseelectronics.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	2.84	3.26	3.57	4.43	4.43	4.30	4.41	4.16	4.16	3.99
Aux	2.81	2.97	3.49	4.36	4.06	4.03	4.24	4.10	3.95	2.80

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 RTL8822CE RTL8852AE	Dipole	3.14	5	NA
	PIFA	3.5	5	NA
RTL8852BE	Dipole	3	5	NA
	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

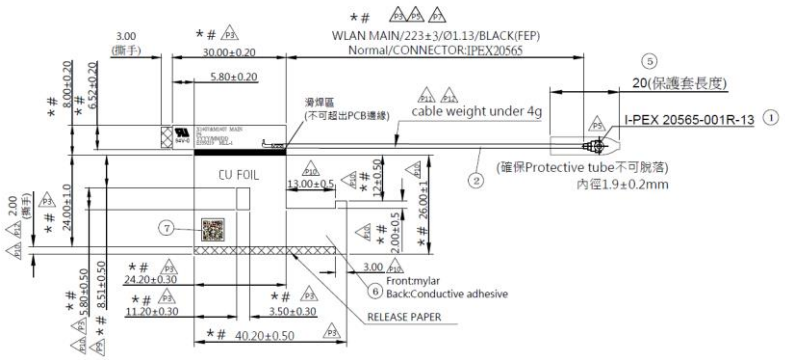
1A Antenna Part Number	1B Manufacturer	1C Antenna Type	1D Cable Assembly Part Number and Information	Freq RangeMHz	1E *Total Peak Gain W/ Cable loss (dBi)	1F Total Peak Gain w/o Cable Loss (dBi)	1G Max VSWR	1H Cable Loss (dB)
Customer P/N: 6036B0372201 Pulse P/N: TZ2950D Tx1 Main Antenna	Pulse	PIFA	Connector: IPEX 20565-001R-13 or compatible. Cable: SY113/50-001 or compatible. 50 ohm Coaxial. Length: 223 mm diameter: 1.13 mm	2400-2483.5	2.84	3.58	3.00 max	0.74
				5150-5250	3.26	4.36	3.00 max	1.10
				5250-5350	3.57	4.67	3.00 max	1.10
				5470-5725	4.43	5.58	3.00 max	1.15
				5725-5850	4.43	5.60	3.00 max	1.17
				5850-5895	4.30	5.48	3.00 max	1.18
				5925-6425	4.41	5.64	3.00 max	1.23
				6425-6525	4.16	5.41	3.00 max	1.25
				6525-6875	4.16	5.45	3.00 max	1.29
				6875-7125	3.99	5.33	3.00 max	1.34
Customer P/N: 6036B0372101 Pulse P/N: TZ2950E Tx2 Aux Antenna	Pulse	PIFA	Connector: IPEX 20565-001R-13 or compatible. Cable: SY113/50-001 or compatible. 50 ohm Coaxial. Length: 400 mm diameter: 1.13 mm	2400-2483.5	2.81	4.13	3.00 max	1.32
				5150-5250	2.97	4.94	3.00 max	1.97
				5250-5350	3.49	5.47	3.00 max	1.98
				5470-5725	4.36	6.43	3.00 max	2.07
				5725-5850	4.06	6.15	3.00 max	2.09
				5850-5895	4.03	6.14	3.00 max	2.11
				5925-6425	4.24	6.45	3.00 max	2.21
				6425-6525	4.10	6.34	3.00 max	2.24
				6525-6875	3.95	6.26	3.00 max	2.31
				6875-7125	2.80	5.20	3.00 max	2.40

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

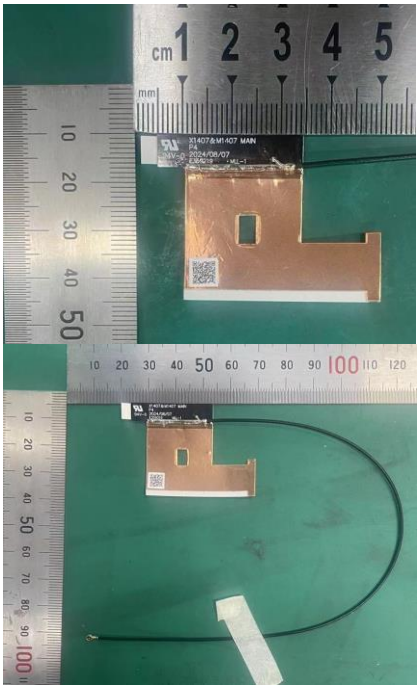
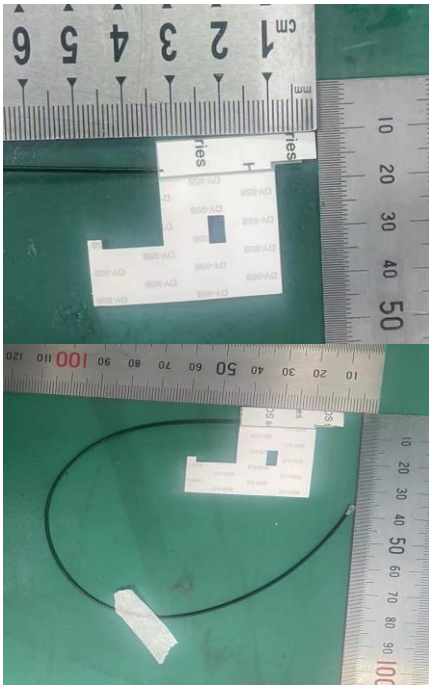
Section 2. Dimensioned Photos and Drawings of Antennas

Main Antenna Drawing:

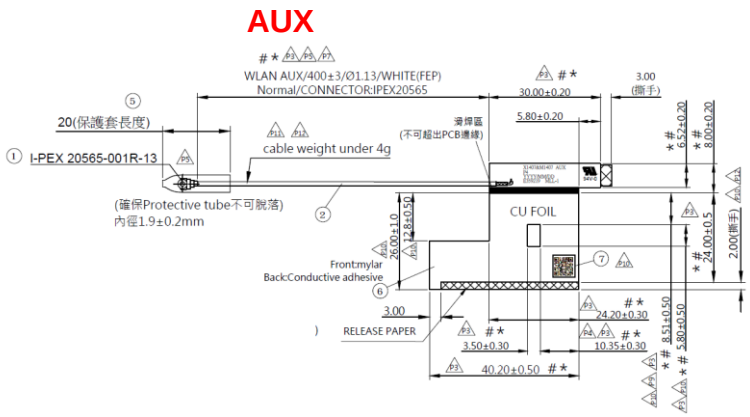
Main



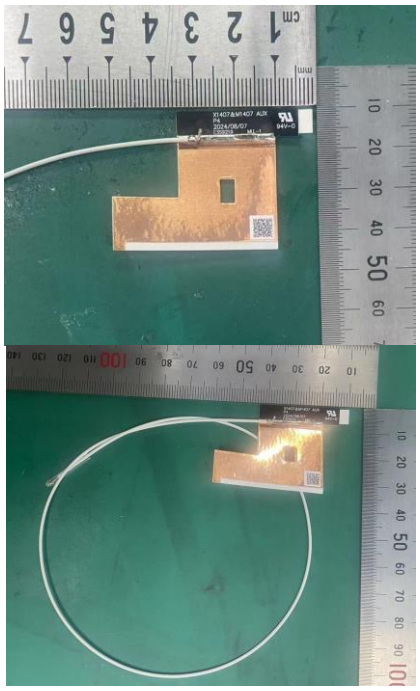
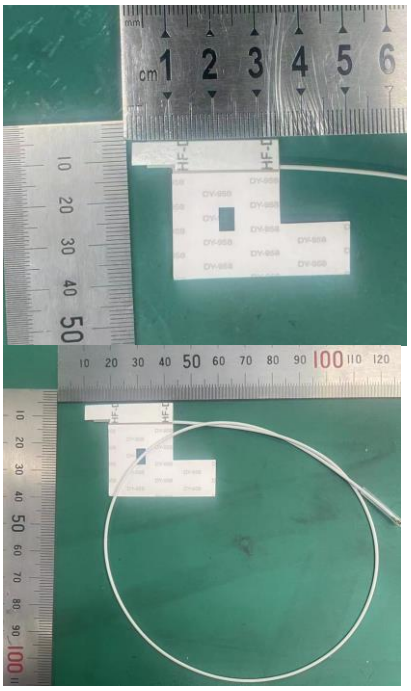
Main Antenna Photo (Front/Back):

Antenna Photo	
Front	Back
	

Aux Antenna Drawing:



Aux Antenna Photo (Front/Back):

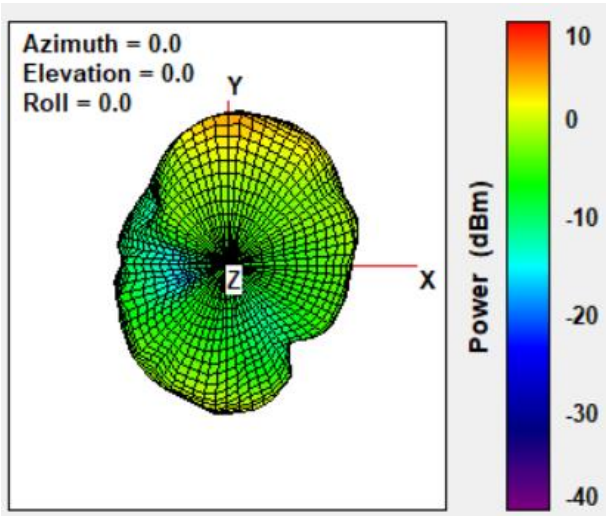
Antenna Photo	
Front	Back
	

Section 3. Radiation characteristics of antenna loaded in Host Platform

Main Antenna

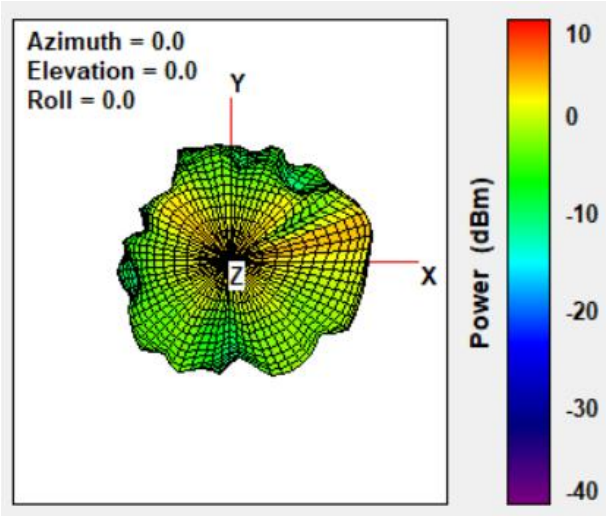
Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
2400-2483.5	2.84



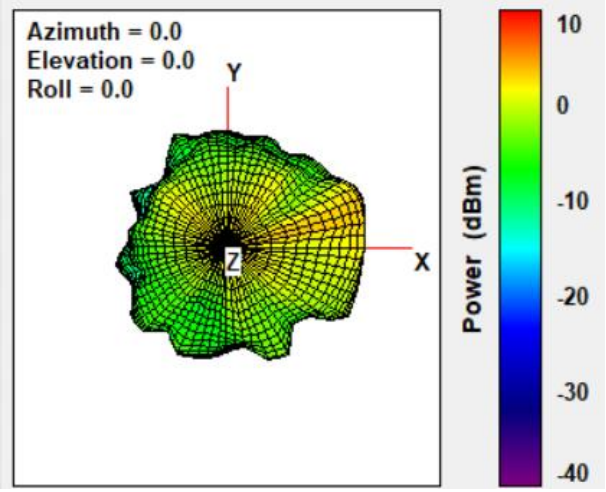
Max Antenna 3D Radiation Pattern 5150-5250 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5150-5250	3.26



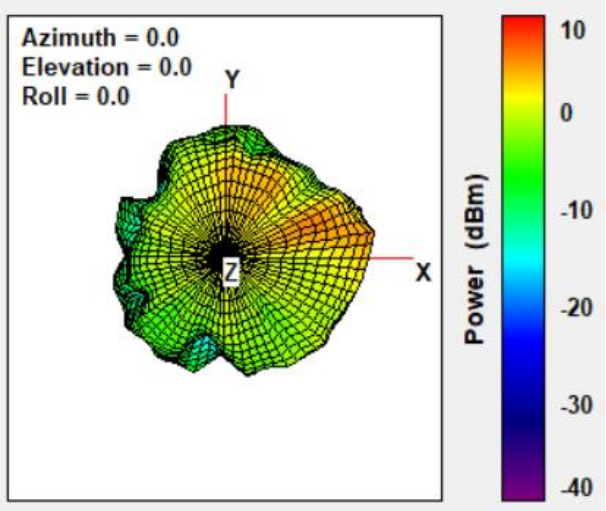
Max Antenna 3D Radiation Pattern 5250-5350 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5250-5350	3.57



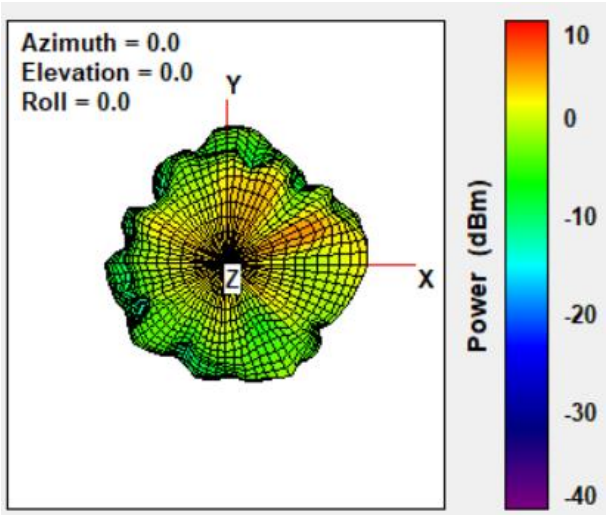
Max Antenna 3D Radiation Pattern 5470-5725 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5470-5725	4.43



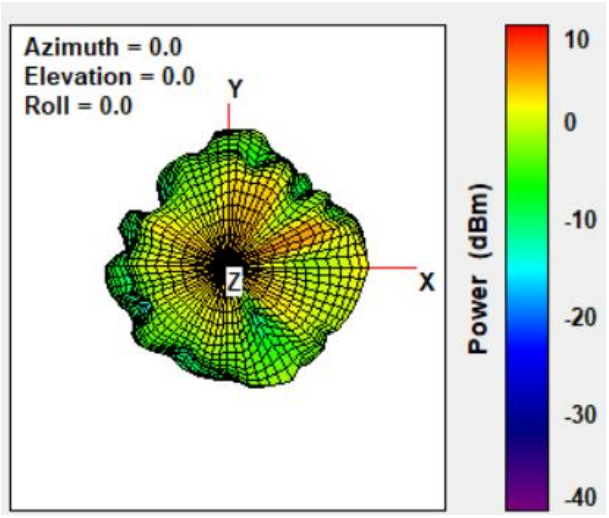
Max Antenna 3D Radiation Pattern 5725-5850 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5725-5850	4.43



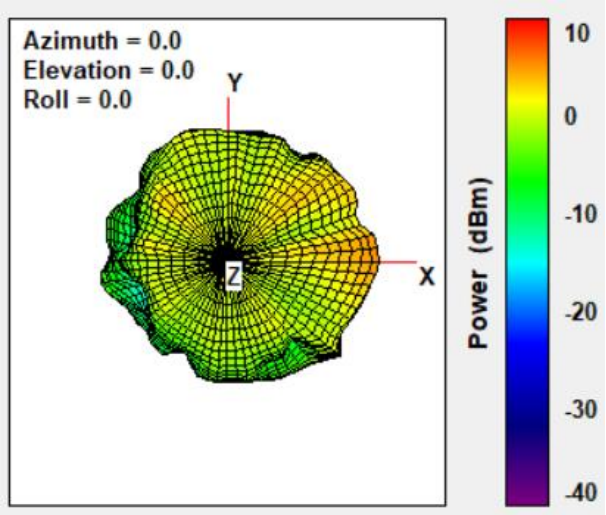
Max Antenna 3D Radiation Pattern 5850-5895 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5850-5895	4.30



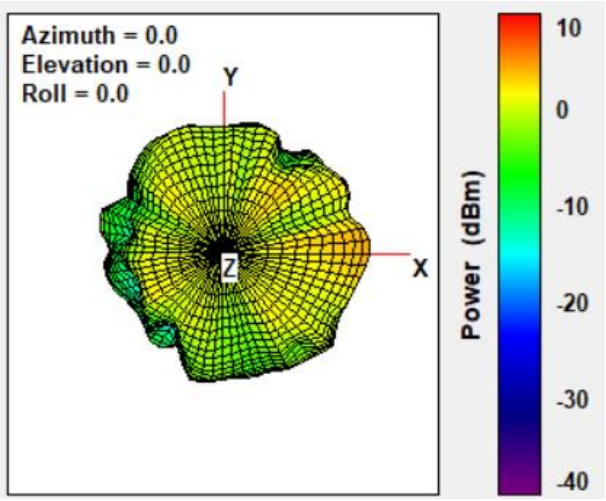
Max Antenna 3D Radiation Pattern 5925-6425 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5925-6425	4.41



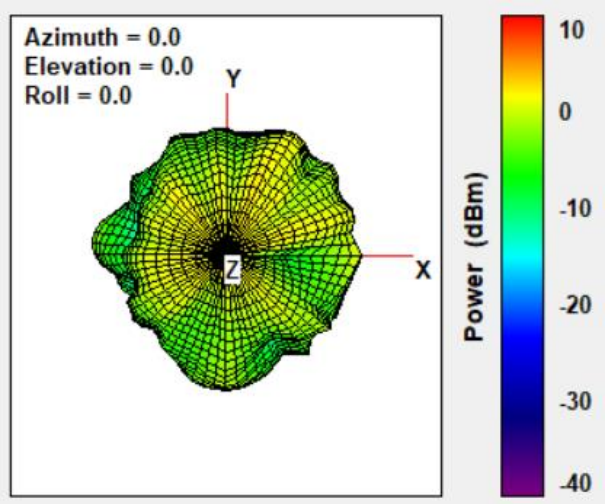
Max Antenna 3D Radiation Pattern 6425-6525 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6425-6525	4.16



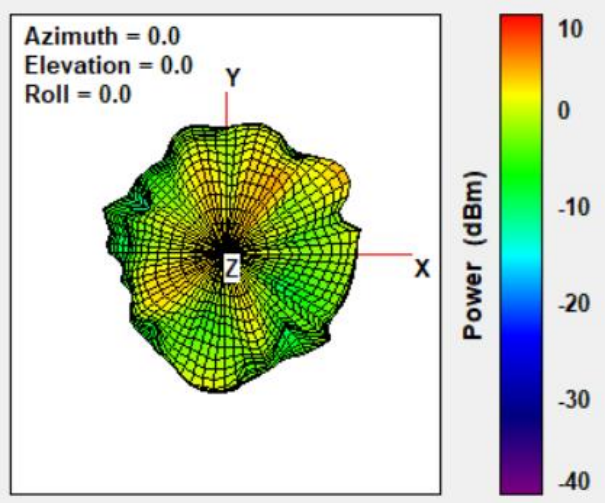
Max Antenna 3D Radiation Pattern 6525-6875 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6525-6875	4.16



Max Antenna 3D Radiation Pattern 6875-7125 MHz

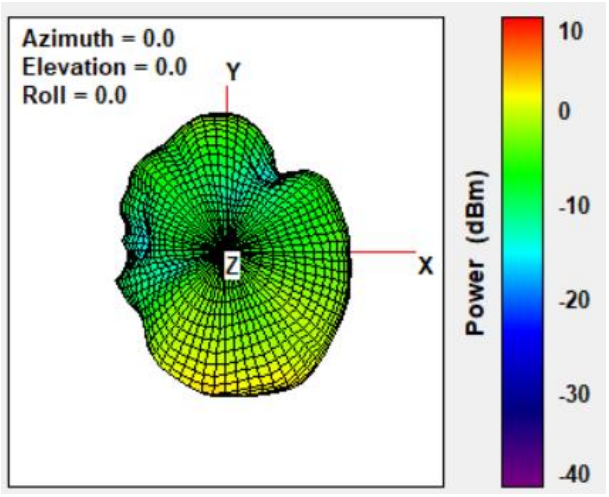
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6875-7125	3.99



Auxiliary Antenna

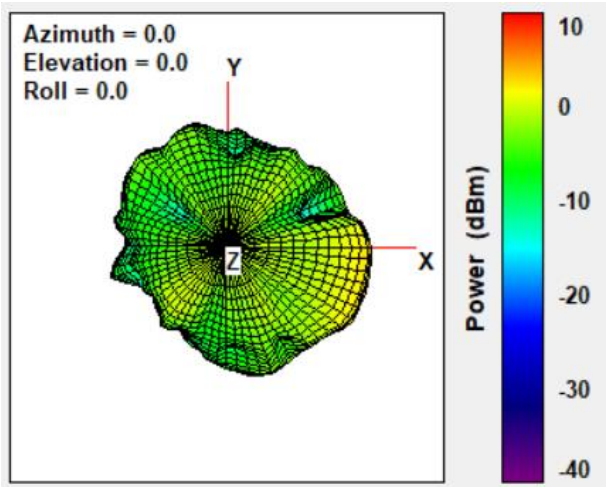
Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
2400-2483.5	2.81



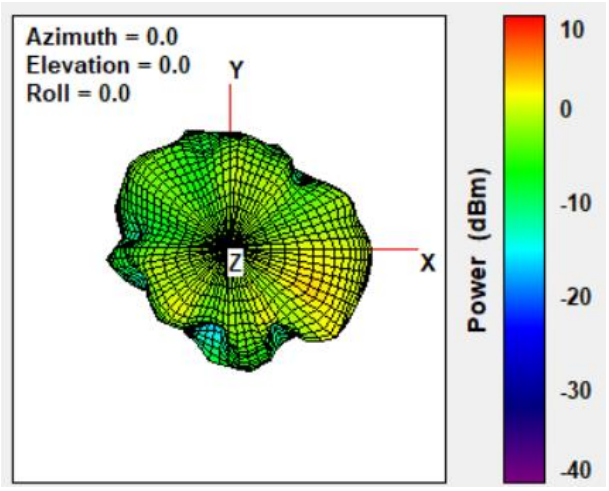
Max Antenna 3D Radiation Pattern 5150-5250 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5150-5250	2.97



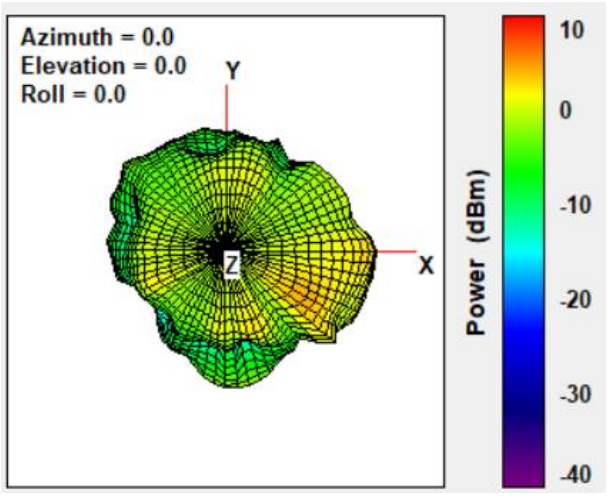
Max Antenna 3D Radiation Pattern 5250-5350 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5250-5350	3.49



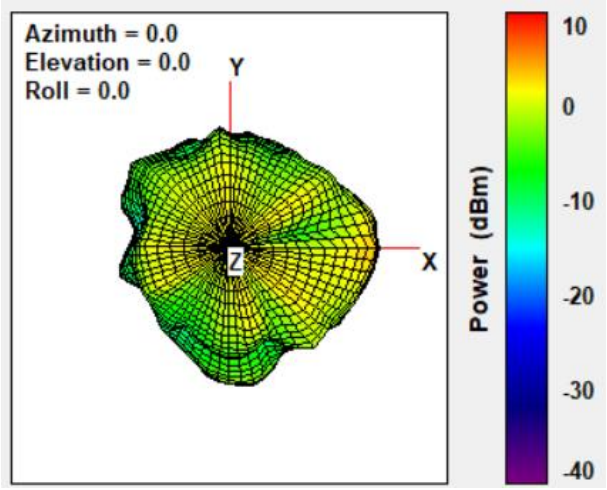
Max Antenna 3D Radiation Pattern 5470-5725 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5470-5725	4.36



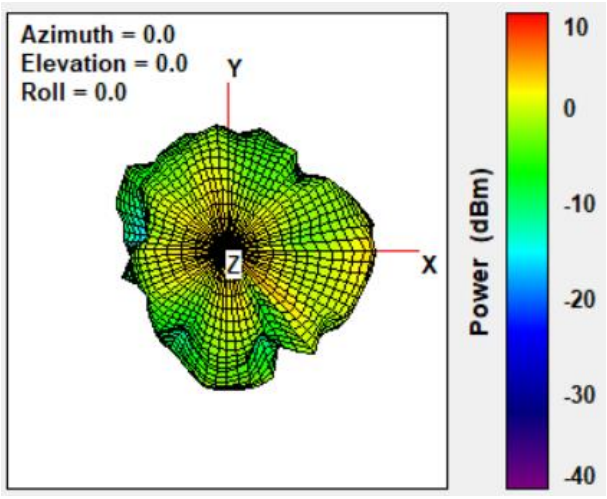
Max Antenna 3D Radiation Pattern 5725-5850 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5725-5850	4.06



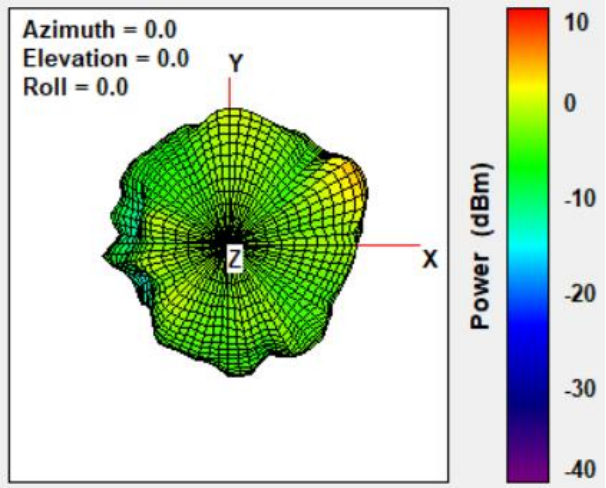
Max Antenna 3D Radiation Pattern 5850-5895 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5850-5895	4.03



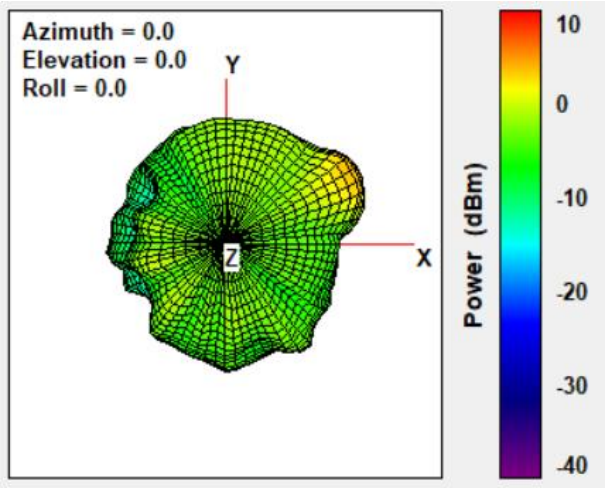
Max Antenna 3D Radiation Pattern 5925-6425 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5925-6425	4.24



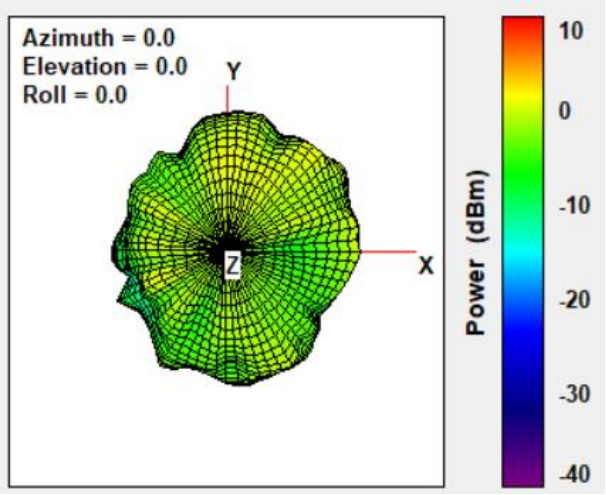
Max Antenna 3D Radiation Pattern 6425-6525 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6425-6525	4.10



Max Antenna 3D Radiation Pattern 6525-6875 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6525-6875	3.95



Max Antenna 3D Radiation Pattern 6875-7125 MHz

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