Regulatory WLAN Antenna Information (Template)

English Language Required for Intel Regulatory Review / Approval

Platform information					
Brand	**ODM**	******End product model name**	**Intel platform** (ex: Yes, No or NA)	**Platform type** (ex: regular NB, convertible PC, AIO…etc)	***SAR minimum separation (mm)**
Intel	ECS	US40PW	YES	regular NB	8.85mm

*******Please fill in exact product model name and make sure the model name is visible on product cover or any parts for end users recognize for authority inspection.**

Antenna information			
Vendor	**Type**	**Antenna Part number** (Main)	**Antenna Part number** (Aux)
WGT	PIFA	EG42AWRPB01+A (13-130PXN6051)	EG42AWRPB02+A (13-130PXN6050)

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	0.02	2.74	1.26	2.57	2.57	2.81	2.84	2.65	2.76	2.76
Aux	-0.06	2.88	2.88	2.25	2.98	2.25	2.50	2.50	2.75	2.93

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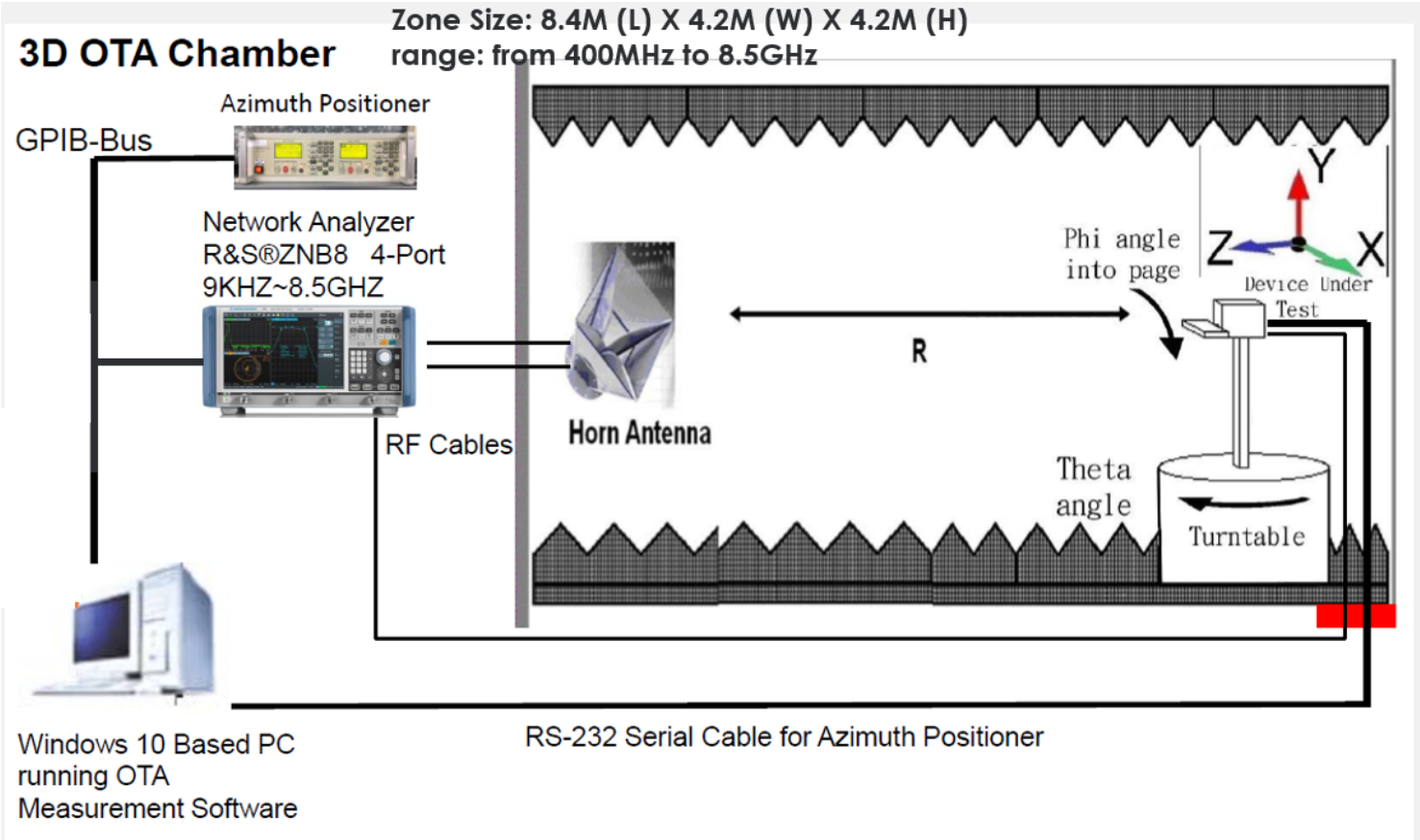
1. **Applicable test methods**

   <insert test description here for test method>

   [example] This test report is prepared for host antenna testing under a Full Anechoic Chamber.

2. **Test & System Description**
   a. Test setup

   <insert test diagram here for test site utilized>



b. Equipment list

<insert test diagram here for test site utilized>

Item	Device Description	Model Name	Manufacturer	Serial Number	Cal. Date	Cal. Due Date
1	Anechoic Chamber	W448	N/A	N/A	2024/6/10	2026/6/10
2	Turn Table	MF9532	Azimuth	-	N/A	N/A
3	Multi-Device Positioning Controller	MF7802	Azimuth	-	2024/10/10	2026/10/10
4	Network Analyzer	ZNB8	R&S	-	2024/10/10	2026/10/10
5	Horn Antenna	HA-0707	TRC	96143	2024/6/10	2026/6/10
6	Cable 7.5mm 400MHz to 18GHz(H-pol)	SS402	WOKEN	00100A1	N/A	N/A
7	Cable 7.5mm 400MHz to 18GHz(V-pol)	SS402	WOKEN	00100A1	N/A	N/A
8	Cable 14mm 400MHz to 18GHz	SS402	WOKEN	00100A1	N/A	N/A

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
(P/N: EG42AWRPB01+A) Main Antenna	Well Green Technology Co., Ltd.	PIFA	(P/N: EG42AWRPB01+A) 50 ohm Coaxial Length: 395mm Diameter: 1.13mm Connector Type I-PEX MHF-4	2400-2483.5	0.02	1.12	2.90	1.10
				5150-5250	2.74	4.44	2.02	1.70
				5250-5350	1.26	3.01	2.00	1.75
				5470-5725	2.57	4.39	1.93	1.82
				5725-5850	2.57	4.46	1.86	1.89
				5850-5895	2.81	4.76	1.70	1.95
				5925-6425	2.84	4.85	1.70	2.01
				6425-6525	2.65	4.78	1.31	2.13
				6525-6875	2.76	4.94	1.69	2.18
				6875-7125	2.76	5.06	2.11	2.30
(P/N: EG42AWRPB02+A) Aux Antenna	Well Green Technology Co., Ltd.	PIFA	(P/N: EG42AWRPB02+A) 50 ohm Coaxial Length: 320mm Diameter: 1.13mm Connector Type I-PEX MHF-4	2400-2483.5	-0.06	0.84	2.70	0.90
				5150-5250	2.88	4.27	2.64	1.39
				5250-5350	2.88	4.31	2.42	1.43
				5470-5725	2.25	3.73	1.75	1.48
				5725-5850	2.98	4.53	1.71	1.55
				5850-5895	2.25	3.84	1.58	1.59
				5925-6425	2.50	4.14	1.43	1.64
				6425-6525	2.50	4.24	1.43	1.74
				6525-6875	2.75	4.53	1.30	1.78
				6875-7125	2.93	4.81	1.39	1.88

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

WGT

Antenna Manufacturer Information
WELL GREEN TECHNOLOGY CO., LTD. No.20,Aly.51,Ln.118,Shuanglian Sec.2,Minzu Rd.,Shuanglian Vil., Pingzhen Dist.,Taoyuan City 32451,Taiwan(R.O.C.) Tel:+886-3-4206428

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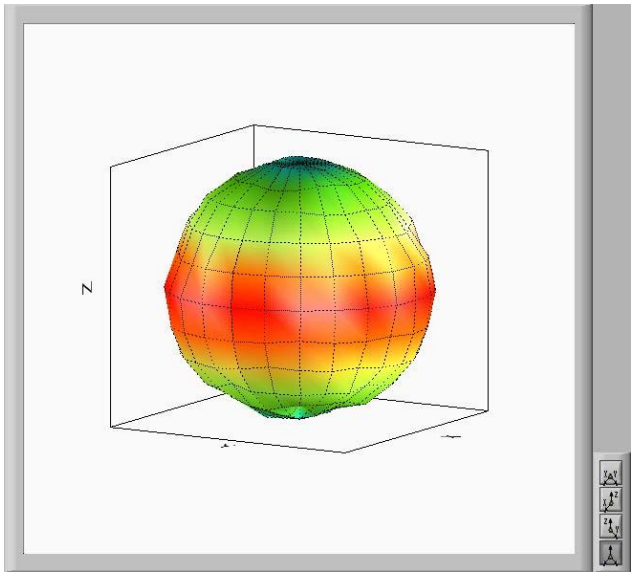
Section 3. Radiation characteristics of antenna loaded in Host Platform

Main Antenna

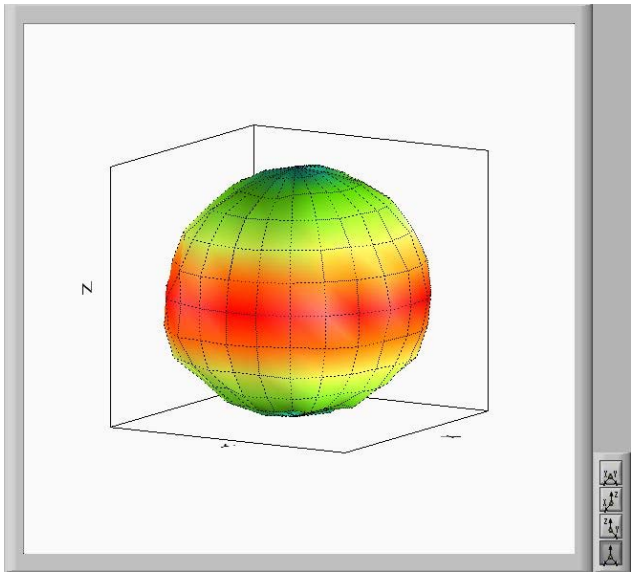
Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
2400-2483.5	0.02



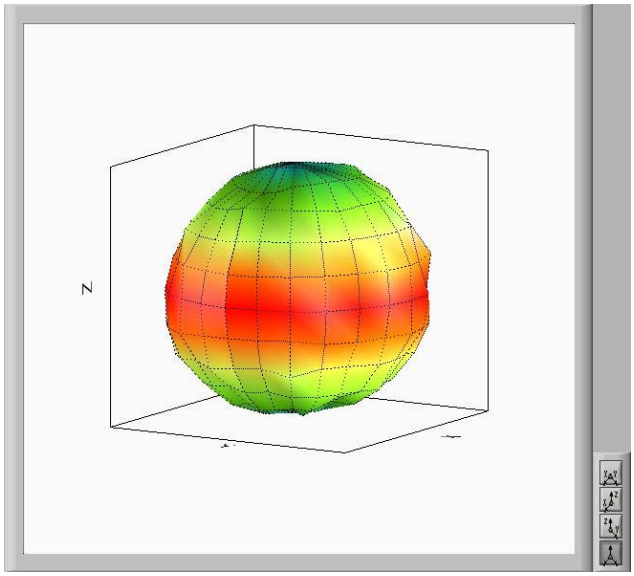
Max Antenna 3D Radiation Pattern 5150-5250 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5150-5250	2.74



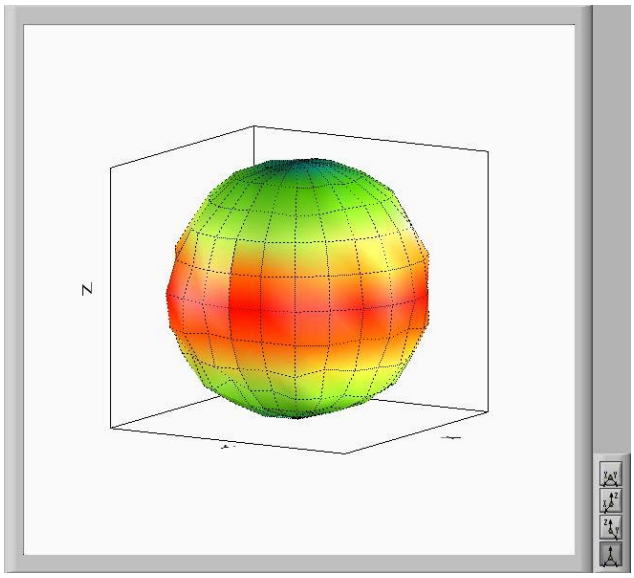
Max Antenna 3D Radiation Pattern 5250-5350 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5250-5350	1.26



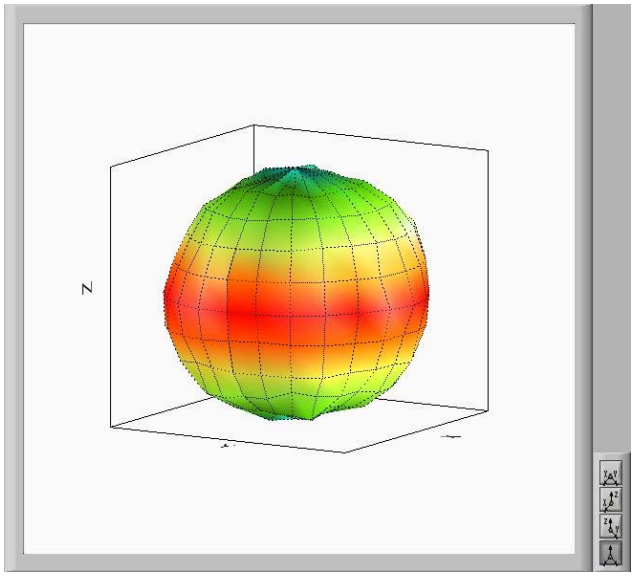
Max Antenna 3D Radiation Pattern 5470-5725 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5470-5725	2.57



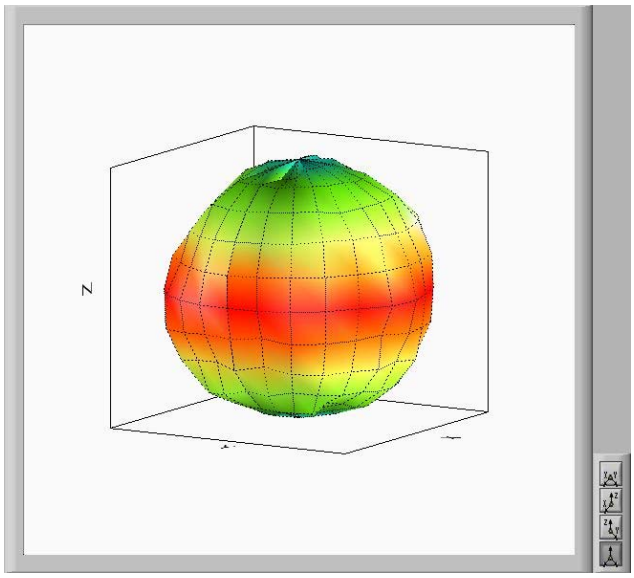
Max Antenna 3D Radiation Pattern 5725-5850 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5725-5850	2.57



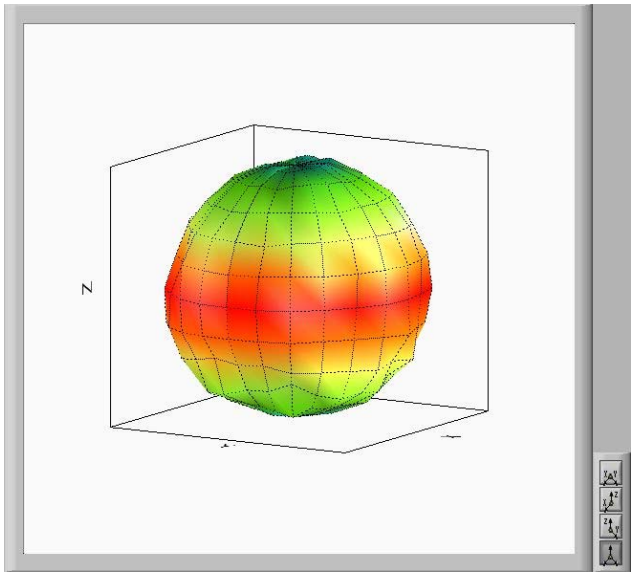
Max Antenna 3D Radiation Pattern 5850-5895 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5850-5895	2.81



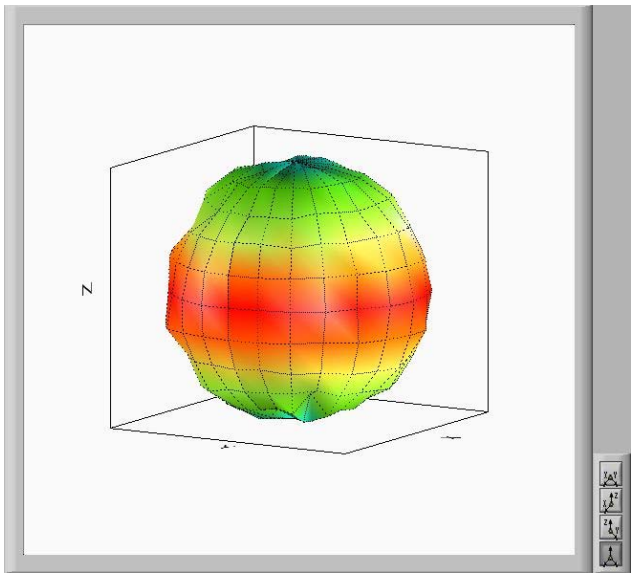
Max Antenna 3D Radiation Pattern 5925-6425 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5925-6425	2.84



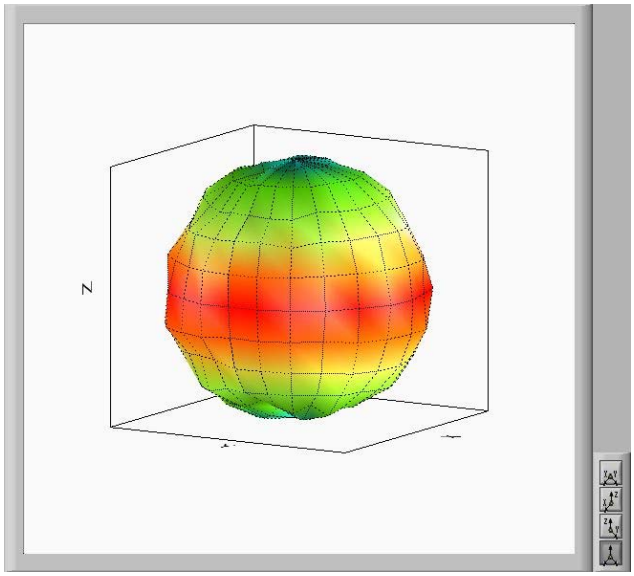
Max Antenna 3D Radiation Pattern 6425-6525 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6425-6525	2.65



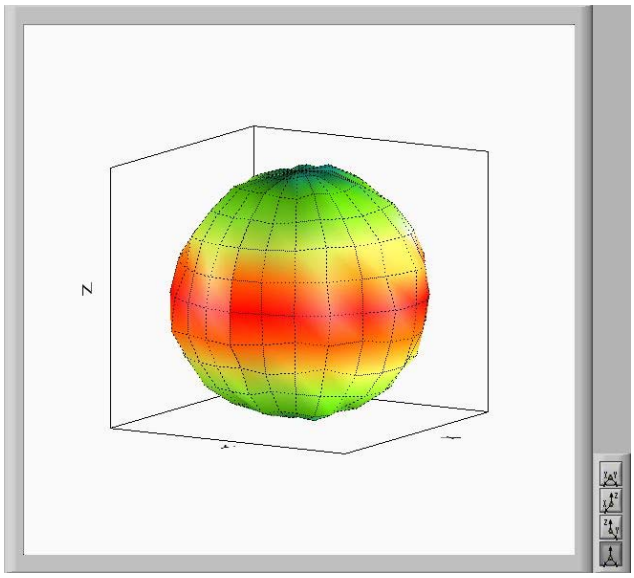
Max Antenna 3D Radiation Pattern 6525-6875 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6525-6875	2.76



Max Antenna 3D Radiation Pattern 6875-7125 MHz

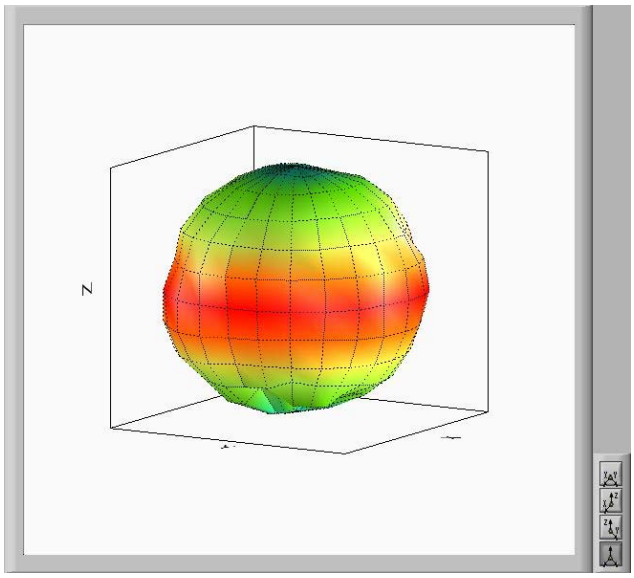
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6875-7125	2.76



Auxiliary Antenna

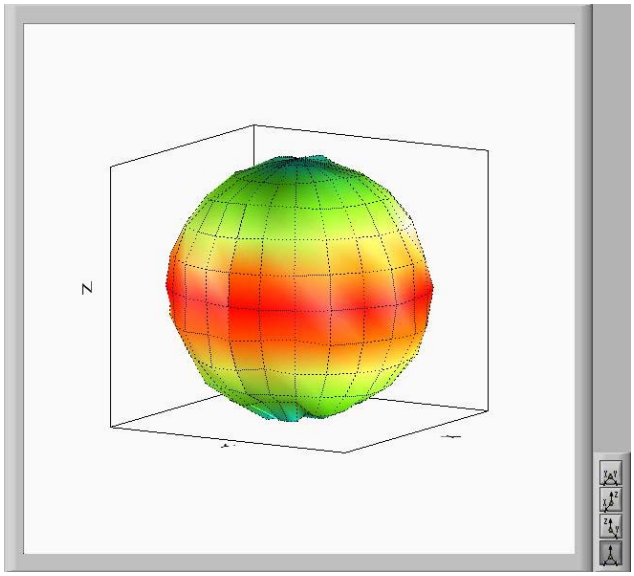
Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
2400-2483.5	-0.06



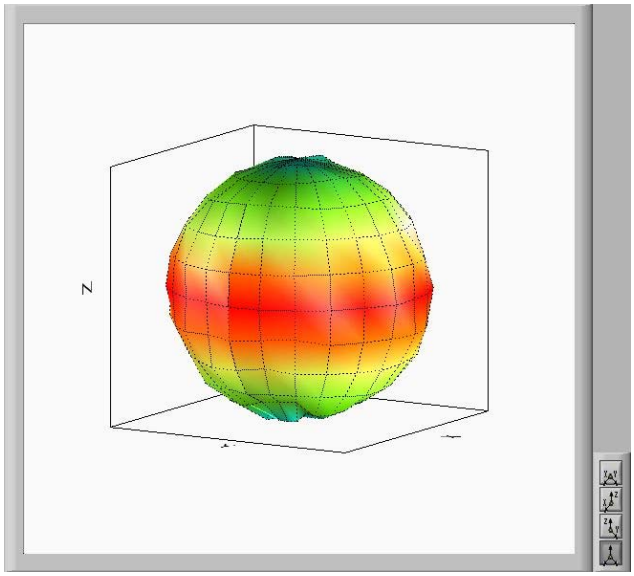
Max Antenna 3D Radiation Pattern 5150-5250 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5150-5250	2.88



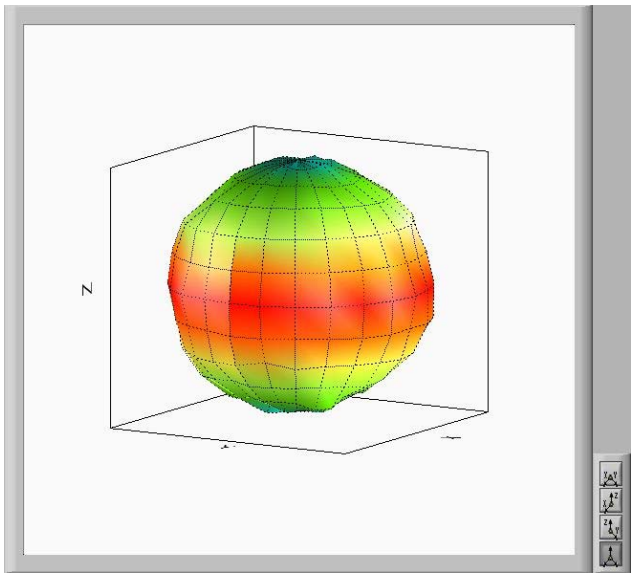
Max Antenna 3D Radiation Pattern 5250-5350 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5250-5350	2.88



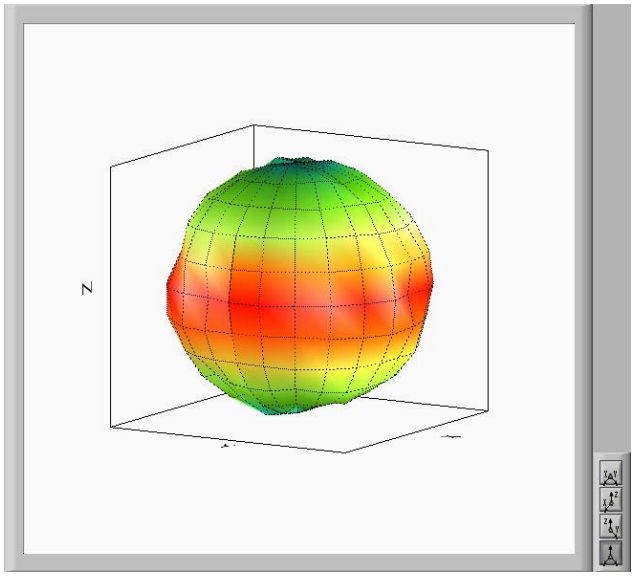
Max Antenna 3D Radiation Pattern 5470-5725 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5470-5725	2.25



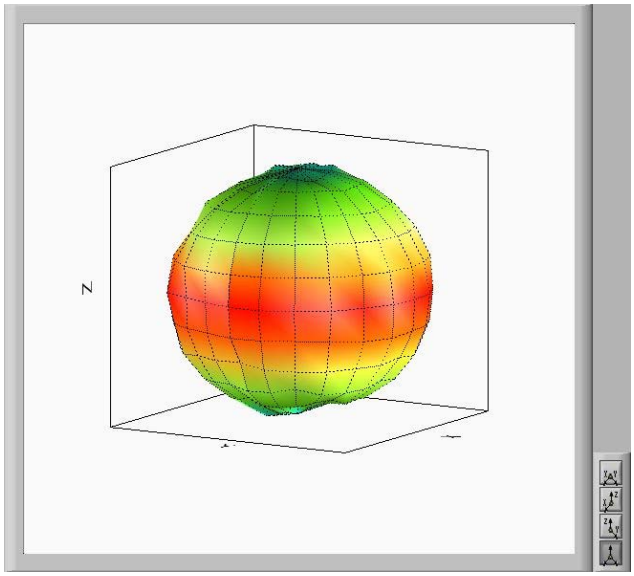
Max Antenna 3D Radiation Pattern 5725-5850 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5725-5850	2.98



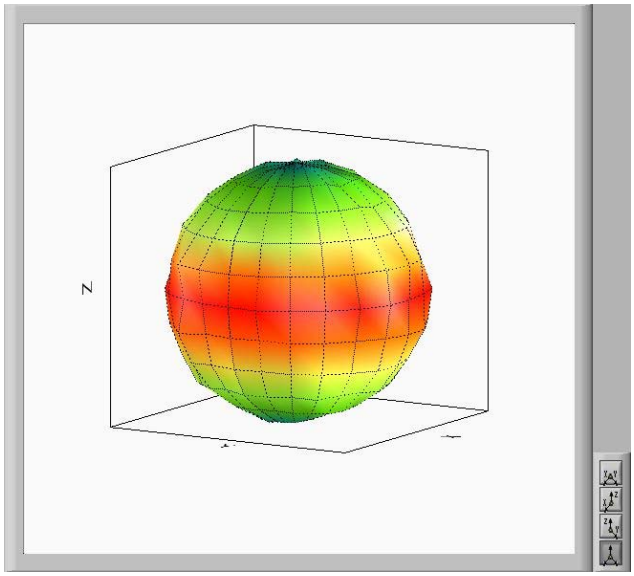
Max Antenna 3D Radiation Pattern 5850-5895 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5850-5895	2.25



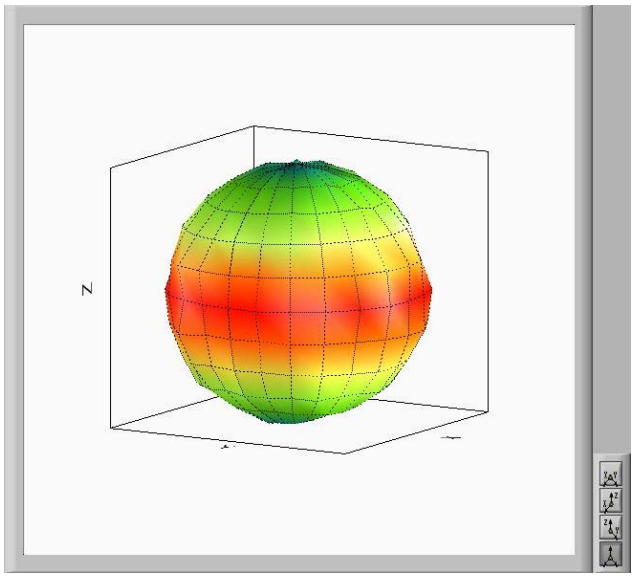
Max Antenna 3D Radiation Pattern 5925-6425 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5925-6425	2.50



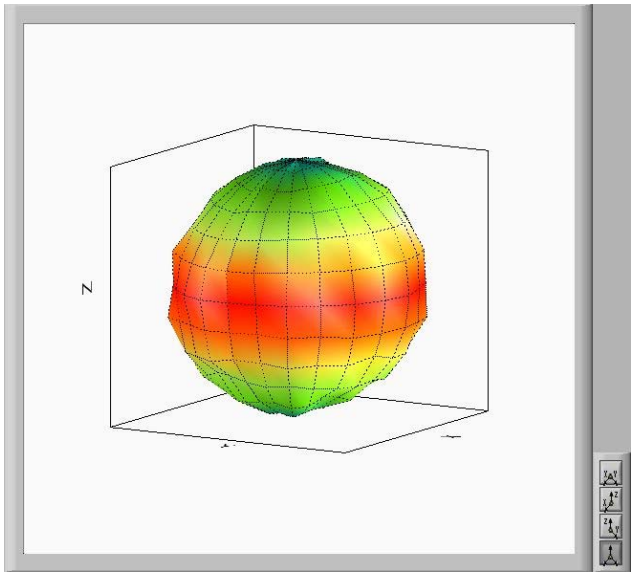
Max Antenna 3D Radiation Pattern 6425-6525 MHz

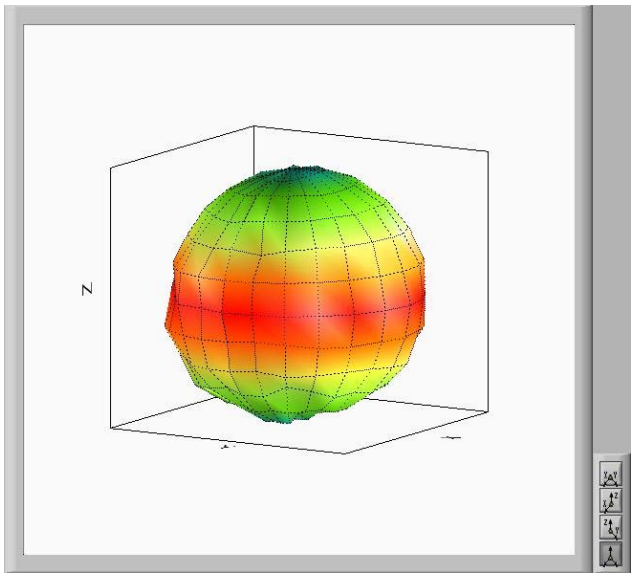
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6425-6525	2.50



Max Antenna 3D Radiation Pattern 6525-6875 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6525-6875	2.75



Max Antenna 3D Radiation Pattern 6875-7125 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6875-7125	2.93