



TAOGLAS®



Datasheet

Pantheon MA710.W 3-in-1 Permanent Mount Antenna

Part No:
MA710.W.A.ABI.001

Description:

Pantheon MA710.W 3-in-1 Permanent Mount Antenna
2 x 5G/4G MIMO, GPS/GLONASS/Galileo

Features:

2 x 5G/4G 600-6000MHz Antennas (MIMO)
1 x GPS/GLONASS/Galileo 1575.42/1602MHz Active Antenna
IP67 Waterproof
Front End SAW Filter
High Efficiency / Peak Gain Outdoor Antenna
Dimensions: Ø143.2 x 82.4mm
Fully Customizable Cable and Connectors
RoHS & Reach Compliant

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1. Introduction



The Taoglas MA710.W Pantheon 3-in-1 antenna is an omnidirectional heavy-duty, fully IP67 waterproof external M2M antenna for use in telematics, transportation, and remote monitoring applications. This unique antenna delivers powerful MIMO antenna technology for 5G/4G Cellular, plus GNSS for next-generation multiple wireless technology systems. The GNSS antenna covers the GPS/GLONASS/Galileo bands and includes a Front End SAW Filter for improved performance.

The Pantheon MA710.W covers all 5G bands from 600-6000MHz, exhibiting excellent performance at key 5G bands such as band 71(617MHz) and the repurposed CBRS and C-band frequencies from 3400-4200MHz. This ensures the Pantheon is prepared for mission critical applications.

Typical Applications Include:

- Public Safety
- Passenger Bus and Rail Services
- Digital Signage
- Commerical Transportation and Fleet Management

All five high-performance antennas are integrated into an extremely robust IP67 permanent mount compact antenna package measuring just 82.4mm in height and 143.2mm in diameter.

The antenna has its own ground-plane and can radiate on any mounting environment like metal or plastic without affecting performance. The cables are low loss allowing for lengths of up to 10 meters (32' and 9.70"), critical for buses, trains, and other commercial transport applications.

Customized cables and connector version available, contact your regional Taoglas customer support team for further information.

2. Specifications

GNSS Frequency Bands Covered							
GPS/QZSS	L1 1575.42MHz	L2 1227.6MHz	L5 1176.45MHz	L6 1278.75MHz			
	■	□	□	□			
GLONASS	L5R 1176.45MHz	L3PT 1201.5MHz	L2PT 1246MHz	L1CR 1575.42MHz	L1PT 1602MHz		
	□	□	□	■	■		
Galileo	E5a 1176.45MHz	E5b 1201.5MHz	E4 1215MHz	E3 1256MHz	E6 1278.75MHz	E2 1561MHz	E1 1575.42MHz
	□	□	□	□	□	□	■
BeiDou	B1 1561MHz	B2 1207.14MHz	B3 1268.52MHz				
	□	□	□				
Compass	E5B(B2)/ E6(B3) 1268.56MHz	E2(B1) 1561MHz					
	□	□					
SBAS	Omnistar 1542.5MHz	WAAS/EGN OS 1575.42MHz					
	□	■					
GNSS Electrical							
Centre Frequency				1575.42MHz / 1602MHz			
Bandwidth				10MHz			
Radiation Efficiency				50(without cable)			
VSWR				2			
Impedance				50Ω			
DC Power Input Range				3 - 5V			
DC Input	3.3V		4.0V		5.5V		
Frequency	1575.42	1602	1575.42	1602	1575.42	1602	
VSWR	2	2	2	2	2	2	
LNA Gain	29.2	29	31	31	32.3	32	
Noise Figure	3.1	3.1	3.2	3.2	3.4	3.4	
Power Consumption	7.5	7.5	9.4	9.4	15	15	
Band Attenuation	1520MHz: -20dB 1642MHz: -20dB		1520MHz: -20dB 1642MHz: -20dB		1520MHz: -20dB 1642MHz: -20dB		

5G/4G MIMO									
Band	Frequency (MHz)			Efficiency (%)	Average Gain (dB)	Peak Gain (dBi)	VSWR	Impedance	Polarization
5G NR/4G Band 5,8,12,13,14,17,18,20, 26,27,28, 29,71	617~960	MIMO 1	Free Space	61	-2.2	3.3	3 Max	50Ω	Linear
			30X30cm GroundPlane	35	-1.7	3.5			
		MIMO 2	Free Space	69	-4.7	2.5			
			30X30cm GroundPlane	26	-6.1	1.4			
5G NR/4G Band 21,32,74,75,76	1427~1518	MIMO 1	Free Space	36	-4.4	2.8			
			30X30cm GroundPlane	21	-4.8	2.8			
		MIMO 2	Free Space	34	-7.0	-0.5			
			30X30cm GroundPlane	18	-7.8	0.5			
4G/3G Band 1,2,3,4,9,23,25,35,39,66	1710~2200	MIMO 1	Free Space	58	-2.4	3.1			
			30X30cm GroundPlane	48	-2.4	5.4			
		MIMO 2	Free Space	57	-3.2	3.2			
			30X30cm GroundPlane	47	-3.3	4.4			
Wi-Fi 2400	2400~2500	MIMO 1	Free Space	44	-3.6	2.1			
			30X30cm GroundPlane	64	-3.2	4.0			
		MIMO 2	Free Space	47	-1.9	5.2			
			30X30cm GroundPlane	67	-1.8	5.8			
4G/3G Band 7,38,41	2490~2690	MIMO 1	Free Space	51	-3.0	4.6			
			30X30cm GroundPlane	65	-2.6	4.7			
		MIMO 2	Free Space	55	-1.9	5.4			
			30X30cm GroundPlane	68	-1.7	6.2			
5G NR/4G Band 22,42,43,48,77,78,79	3300~5000	MIMO 1	Free Space	34	-5.2	5.8			
			30X30cm GroundPlane	41	-5.1	8.1			
		MIMO 2	Free Space	35	-4.0	4.7			
			30X30cm GroundPlane	42	-3.9	6.8			
LTE5200/ Wi-Fi 5800	5150~5925	MIMO 1	Free Space	16	-8.1	1.2			
			30X30cm GroundPlane	23	-8.2	2.4			
		MIMO 2	Free Space	16	-6.5	3.0			
			30X30cm GroundPlane	22	-6.7	3.3			

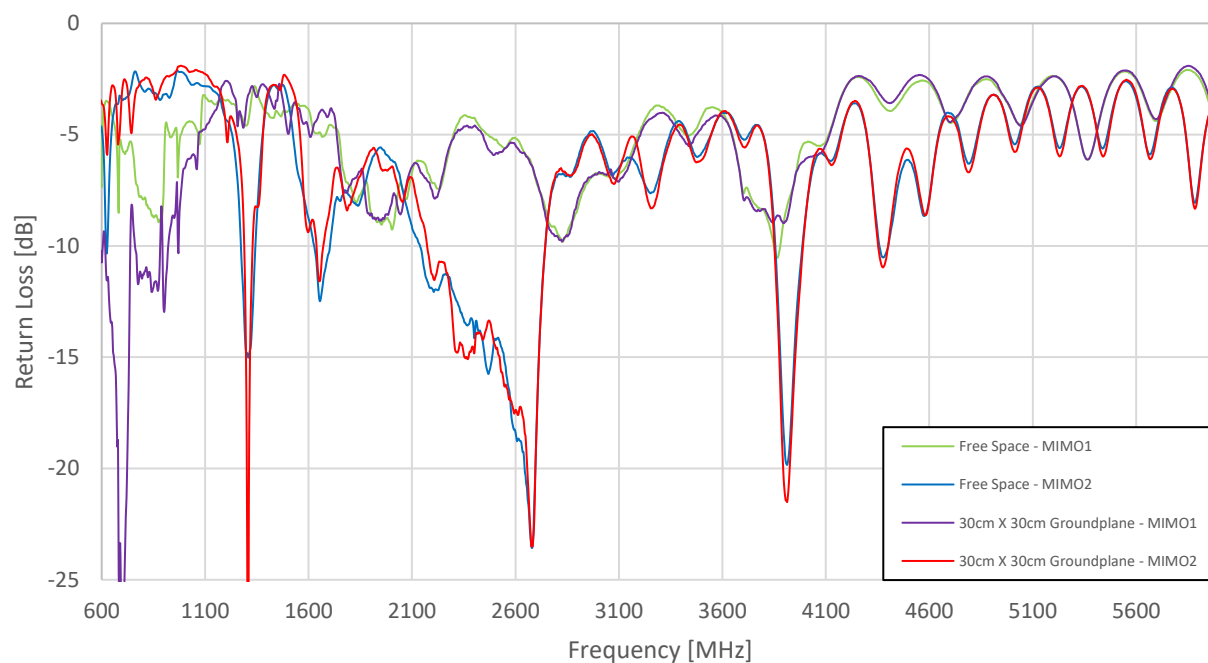
All measurements were conducted with 0.5m low loss CFD200 cable.

Mechanical	
Antenna Dimensions	Height 82.4mm x Diameter 143.19mm
Casing	Wonderloy PC-540 PC/ABS Alloy
Waterproof	IP67
Cables	5G/4G – 3m CFD-200 GNSS – 3m RG-174
Connectors	GNSS & 5G/4G – SMA(M)
Base and thread	CAN10 Zinc Alloy
Thread diameter	M30 x 2 (30mm)
Nut	Nickel Plated Steel
Foam	3M 9448HK
Weight(kg)	1.29
Recommended Torque for Mounting	5-7Nm
Envioronmental	
Operation Temperature	-40°C to 85°C
Storage Temperature	-40°C to 90°C
Humidity	Non-condensing 65°C 95% RH

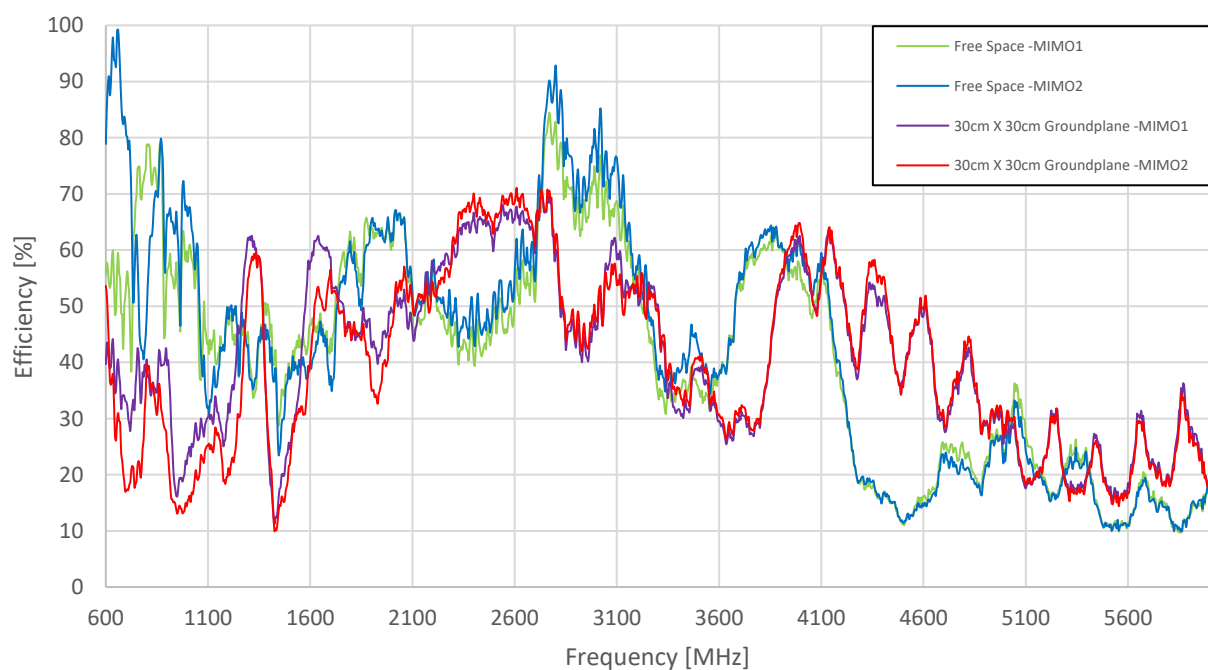
5G/4G Bands			
Band Number	5G NR / FR1 / LTE / LTE-Advanced / WCDMA / HSPA / HSPA+ / TD-SCDMA		
	Uplink	Downlink	Covered
1	UL: 1920 to 1980	DL: 2110 to 2170	✓
2	UL: 1850 to 1910	DL: 1930 to 1990	✓
3	UL: 1710 to 1785	DL: 1805 to 1880	✓
4	UL: 1710 to 1755	DL: 2110 to 2155	✓
5	UL: 824 to 849	DL: 869 to 894	✓
7	UL: 2500 to 2570	DL: 2620 to 2690	✓
8	UL: 880 to 915	DL: 925 to 960	✓
9	UL: 1749.9 to 1784.9	DL: 1844.9 to 1879.9	✓
11	UL: 1427.9 to 1447.9	DL: 1475.9 to 1495.9	✓
12	UL: 699 to 716	DL: 729 to 746	✓
13	UL: 777 to 787	DL: 746 to 756	✓
14	UL: 788 to 798	DL: 758 to 768	✓
17	UL: 704 to 716	DL: 734 to 746	✓
18	UL: 815 to 830	DL: 860 to 875	✓
19	UL: 830 to 845	DL: 875 to 890	✓
20	UL: 832 to 862	DL: 791 to 821	✓
21	UL: 1447.9 to 1462.9	DL: 1495.9 to 1510.9	✓
22	UL: 3410 to 3490	DL: 3510 to 3590	✓
23	UL: 2000 to 2020	DL: 2180 to 2200	✓
24	UL: 1625.5 to 1660.5	DL: 1525 to 1559	✓
25	UL: 1850 to 1915	DL: 1930 to 1995	✓
26	UL: 814 to 849	DL: 859 to 894	✓
27	UL: 807 to 824	DL: 852 to 869	✓
28	UL: 703 to 748	DL: 758 to 803	✓
29	UL: -	DL: 717 to 728	✓
30	UL: 2305 to 2315	DL: 2350 to 2360	✓
31	UL: 452.5 to 457.5	DL: 462.5 to 467.5	✗
32	UL: -	DL: 1452 - 1496	✓
35		1850 to 1910	✓
38		2570 to 2620	✓
39		1880 to 1920	✓
40		2300 to 2400	✓
41		2496 to 2690	✓
42		3400 to 3600	✓
43		3600 to 3800	✓
48		3550 to 3700	✓
66	UL: 1710-1780	DL: 2110-2200	✓
71		617 to 698	✓
74/75/76		1427 to 1518	✓
78		3300 to 3800	✓
79		4400 to 5000	✓
85	698-716	728-746	✓

3. Antenna Characteristics

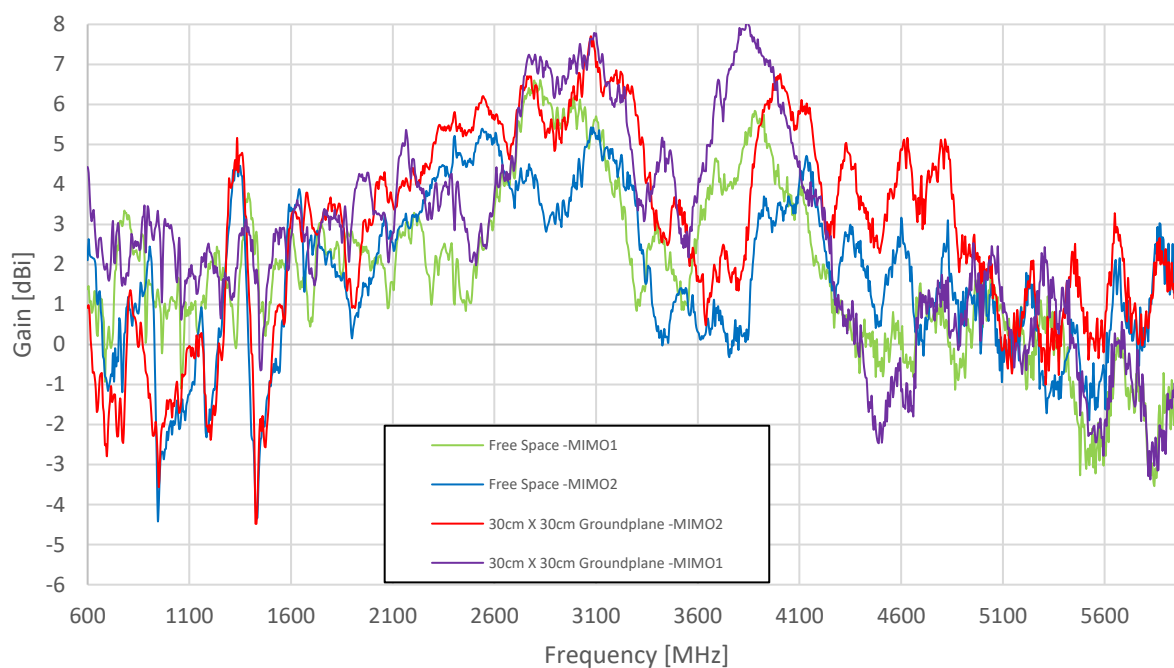
3.1 Return Loss



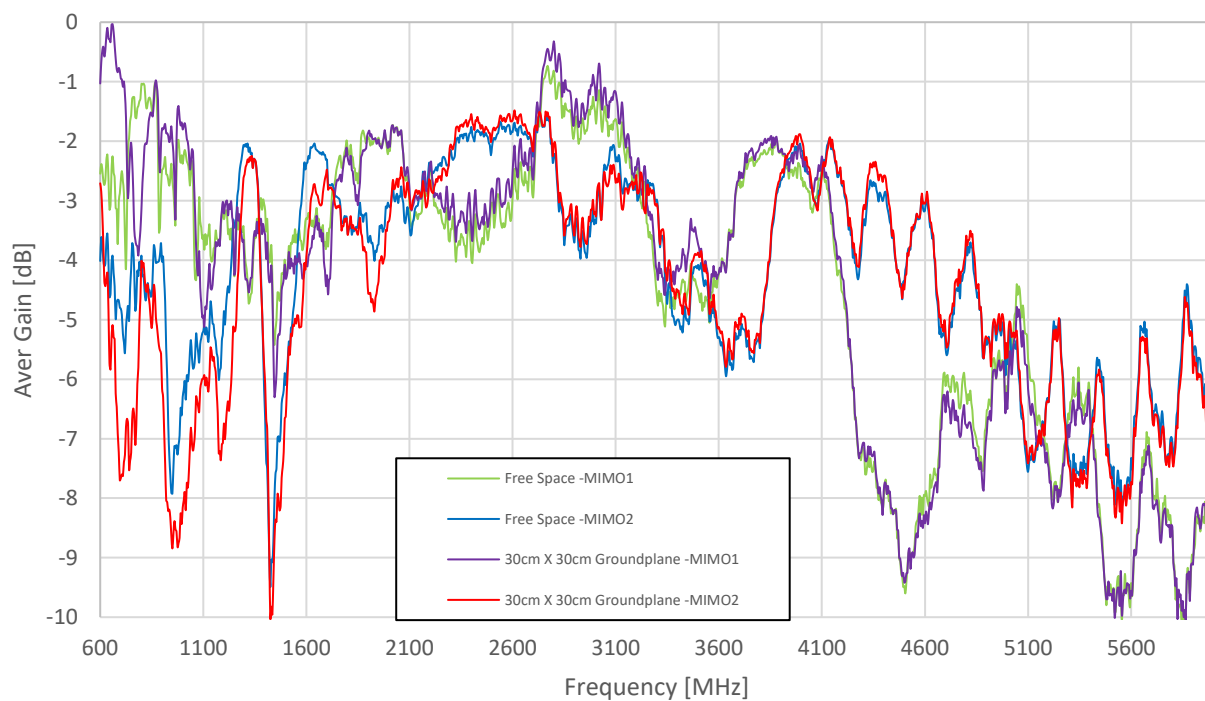
3.2 Efficiency



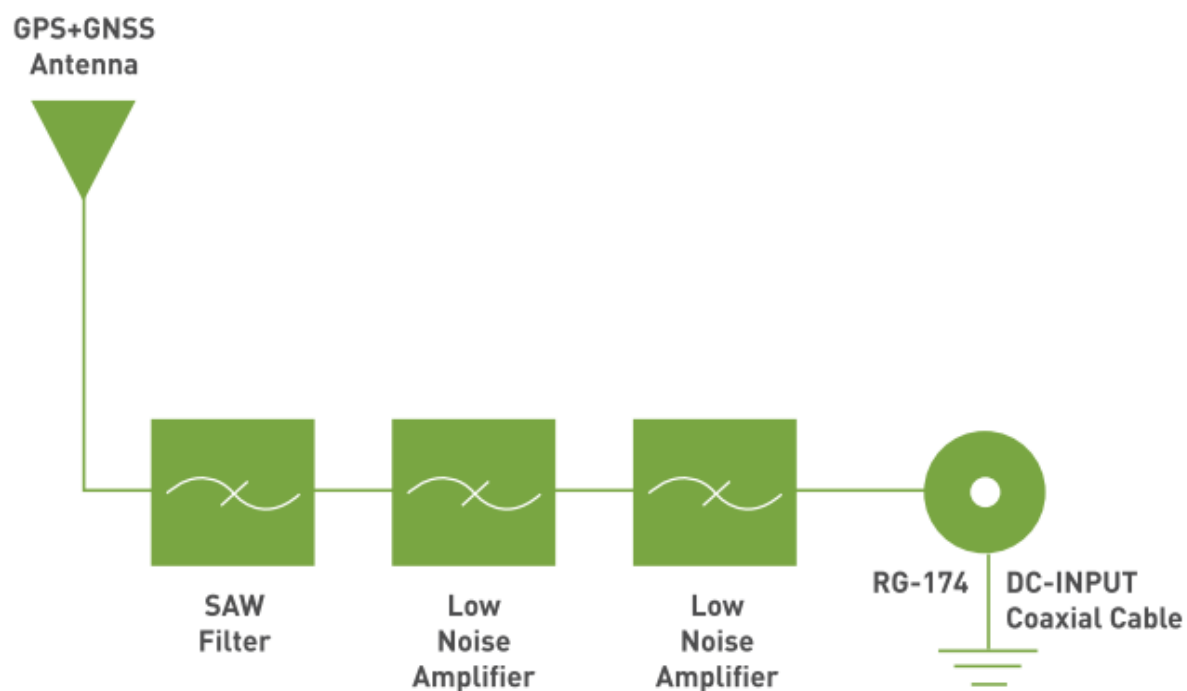
3.3 Peak Gain



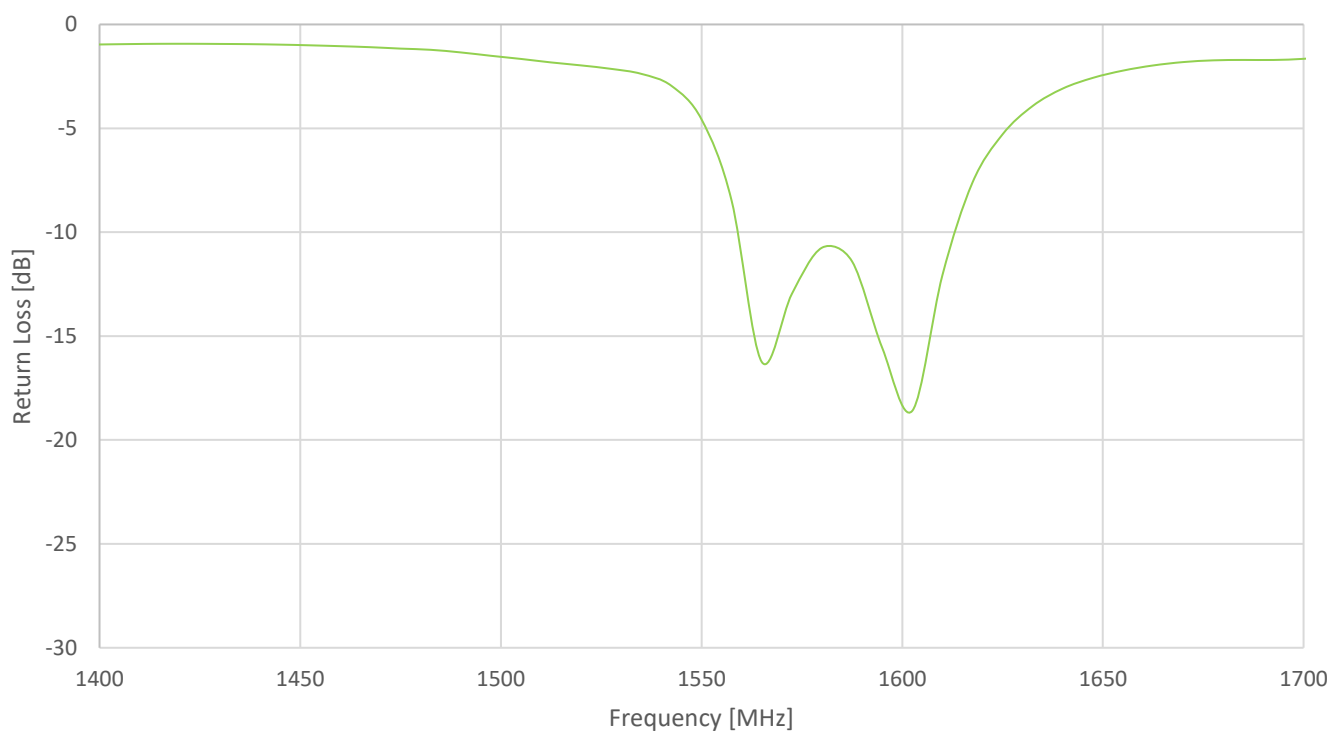
3.4 Average Gain



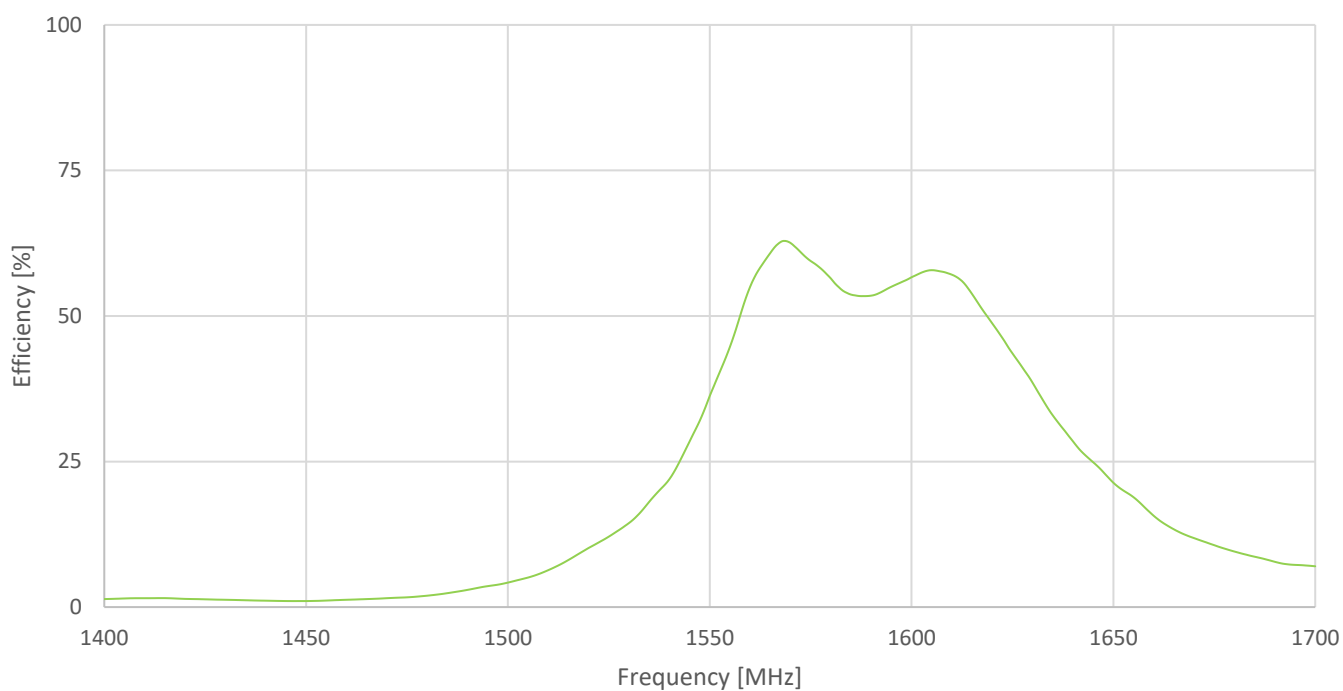
3.5 Block Diagram - GPS/GLONASS/GALILEO



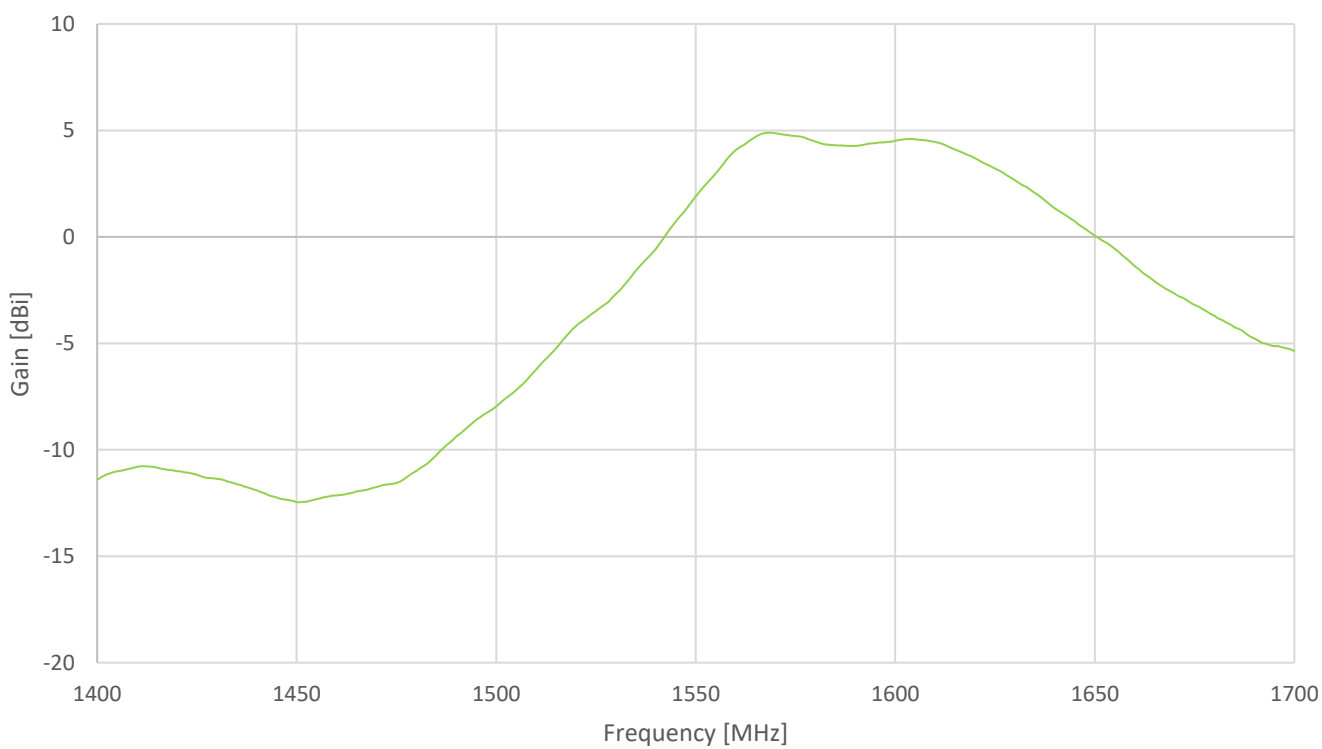
3.6 Return Loss - GNSS



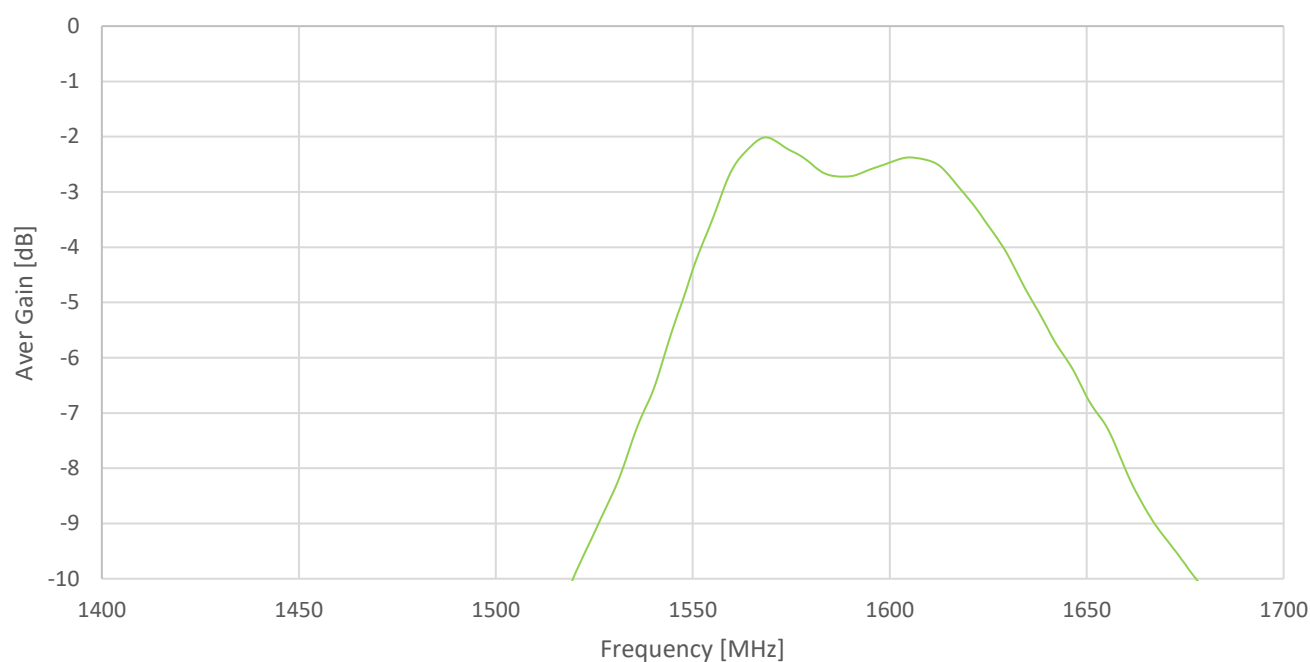
3.7 GNSS – Efficiency



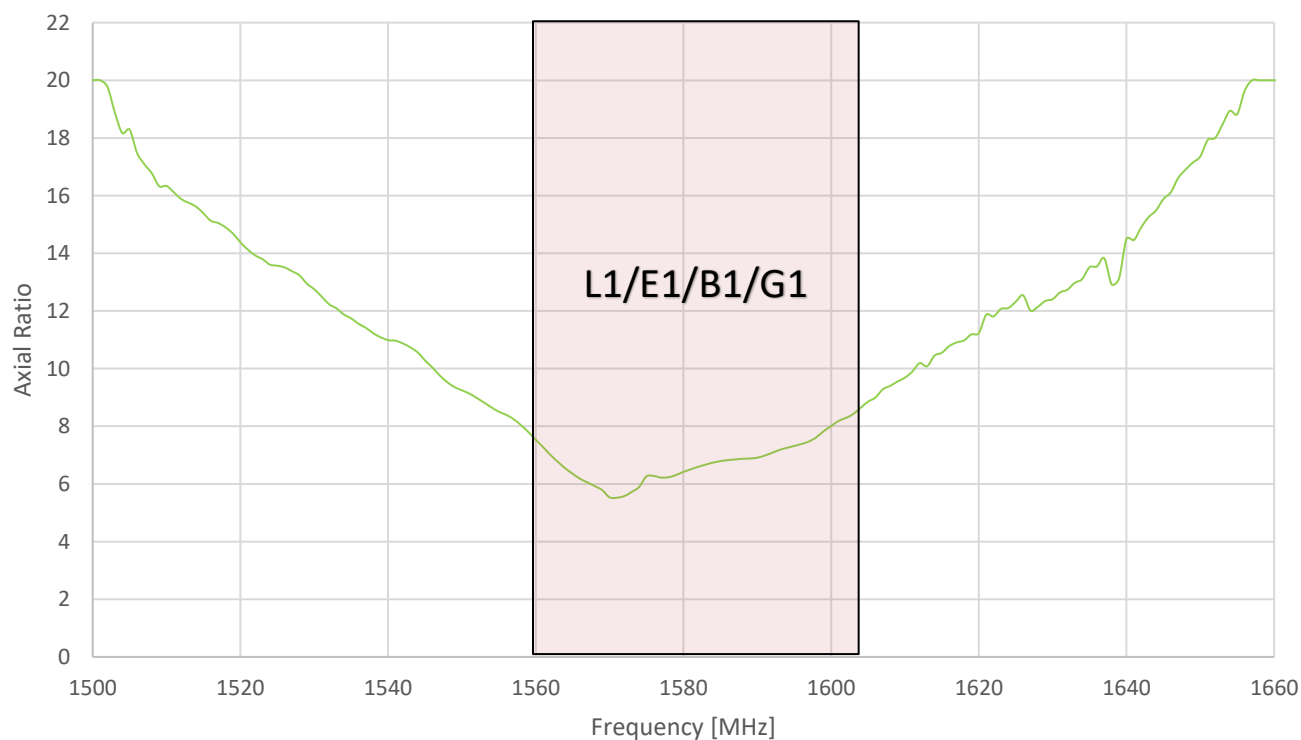
3.8 GNSS – Peak Gain



3.9 GNSS – Average Gain

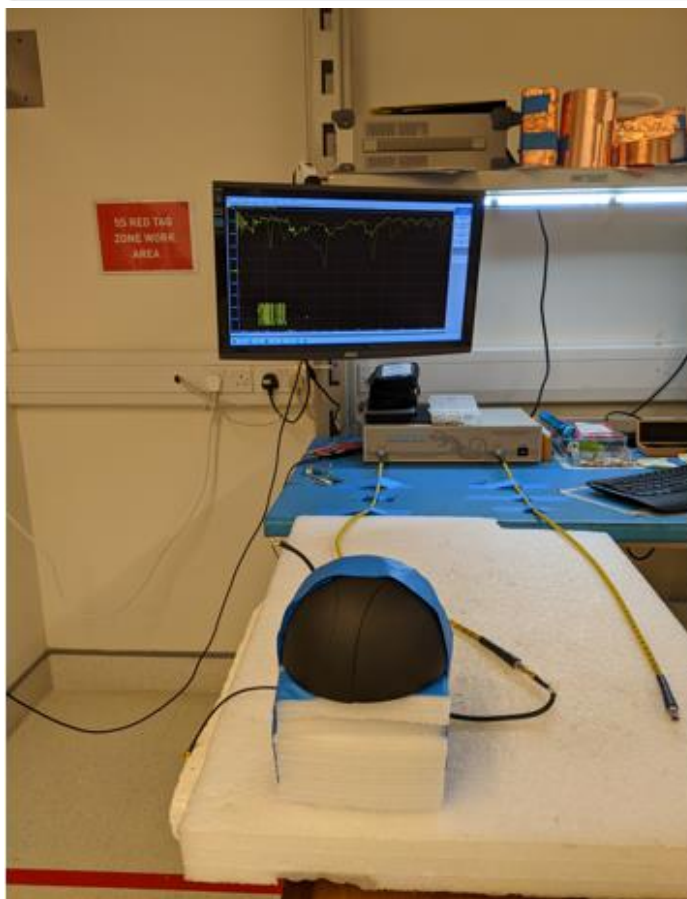


3.10 GNSS - Axial Ratio

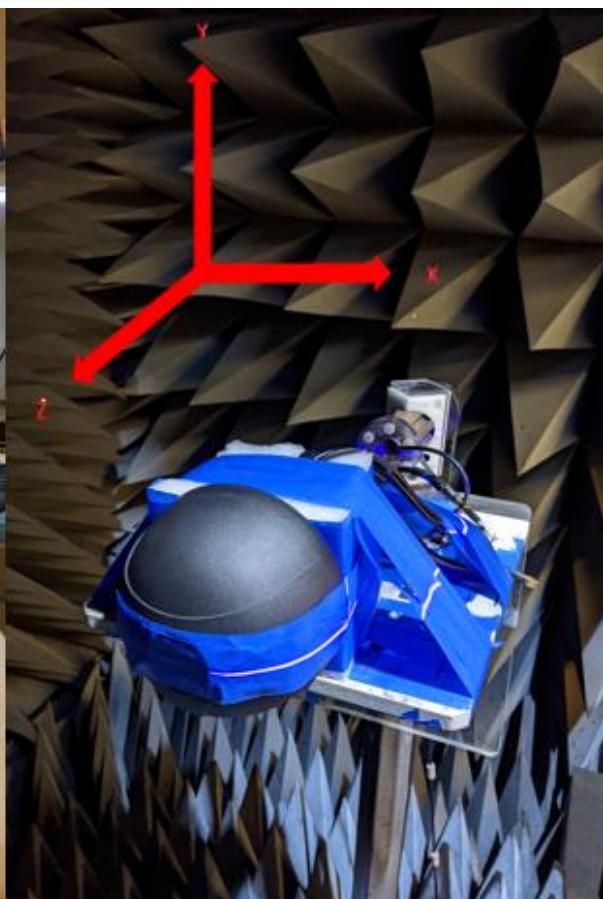


4. Radiation Patterns

4.1 Test Setup



VNA Test Set-up

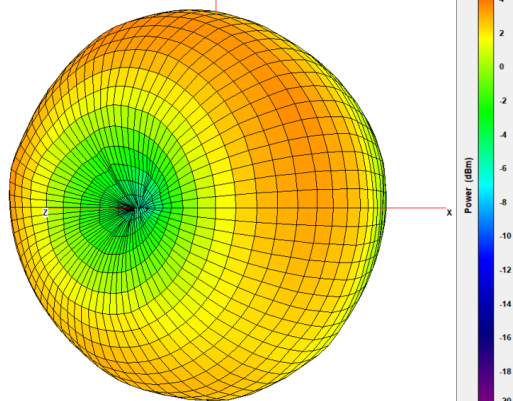


Chamber Test Set-up

4.2 705MHz 3D and 2D Cellular Radiation Patterns

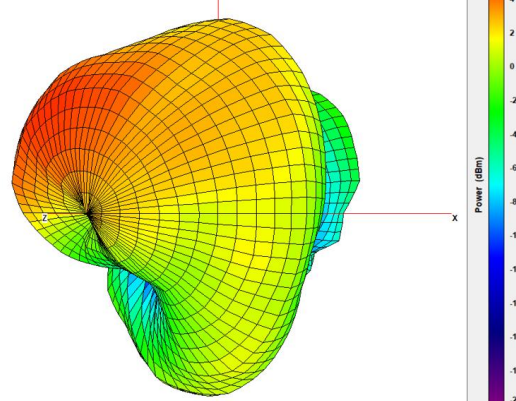
MIMO 1 – 30cmx30cm
Ground Plane

Azimuth = 0.0
Elevation = 0.0
Roll = -35.0



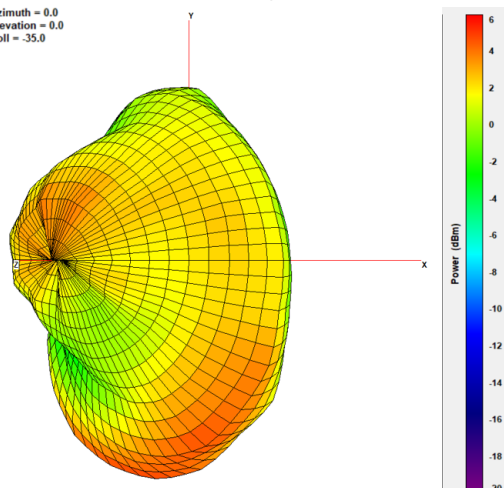
MIMO 2 – 30cmx30cm
Ground Plane

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Elevation = 0.0
Roll = -35.0



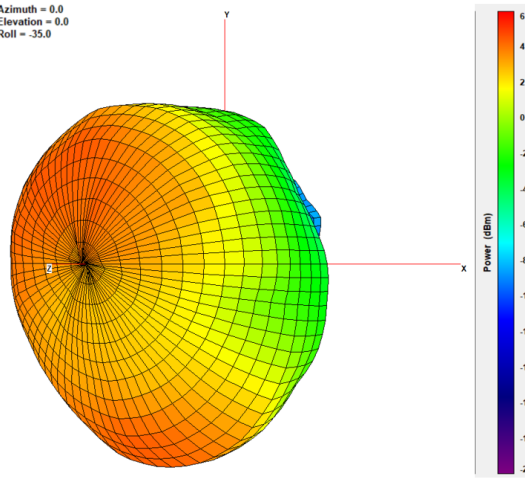
MIMO 1 – Free Space

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Elevation = 0.0
Roll = -35.0

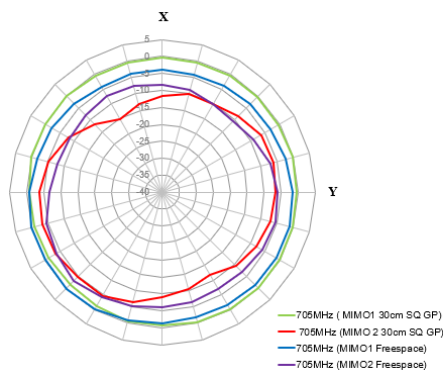


MIMO 2 – Free Space

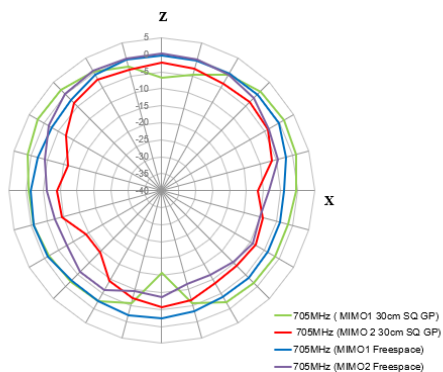
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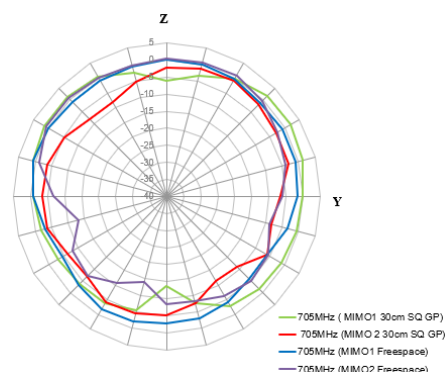
XY Plane



XZ Plane



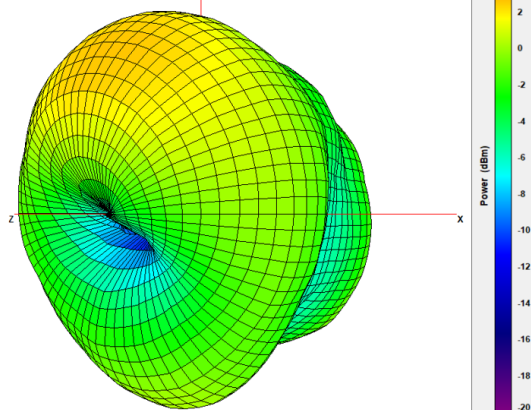
YZ Plane



750MHz

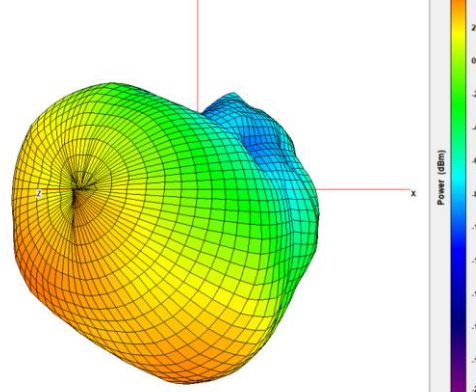
MIMO 1 – 30cmx30cm
Ground Plane

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Elevation = 0.0
Roll = -35.0



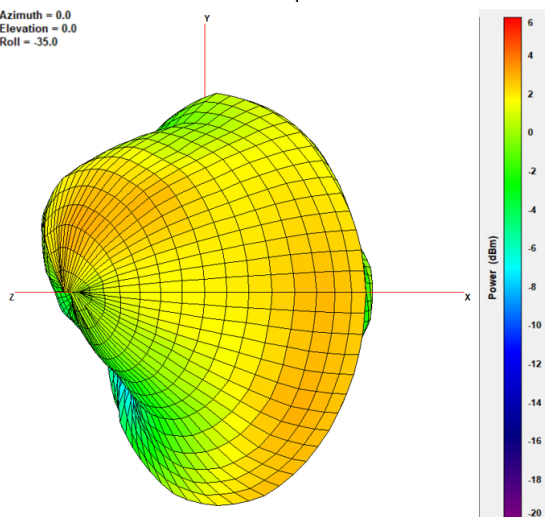
MIMO 2 – 30cmx30cm
Ground Plane

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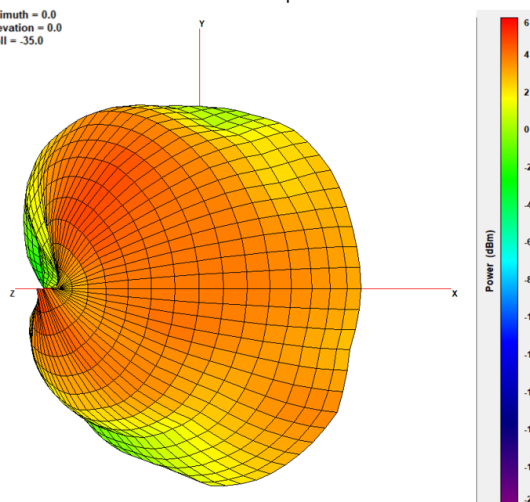
MIMO 1 – Free Space

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MIMO 2 – Free Space

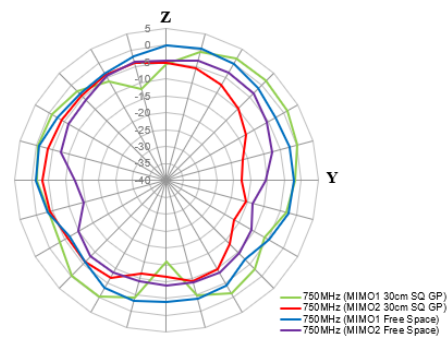
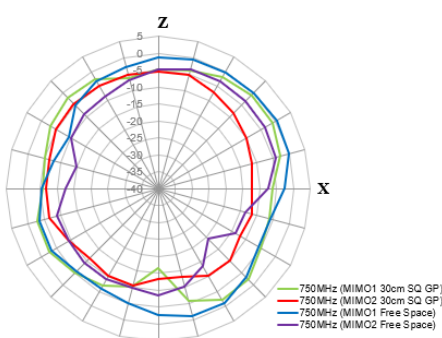
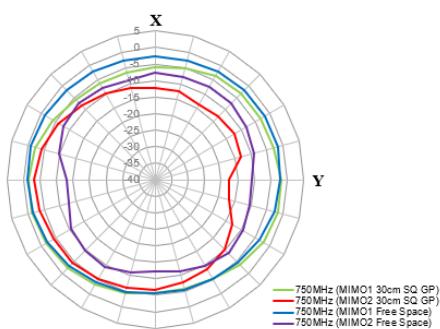
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XY Plane

XZ Plane

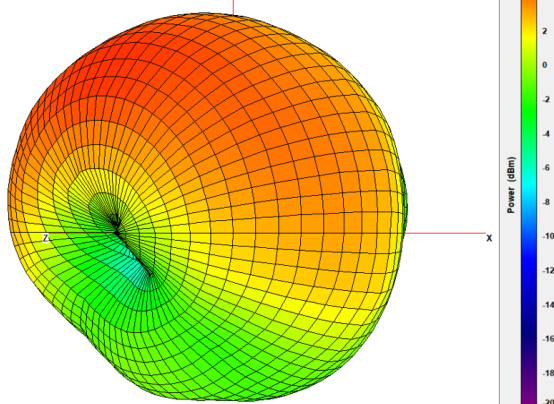
YZ Plane



825MHz

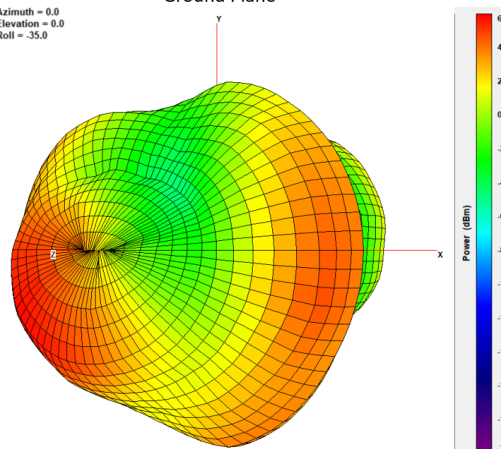
MIMO 1 – 30cmx30cm
Ground Plane

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Elevation = 0.0
Roll = -35.0



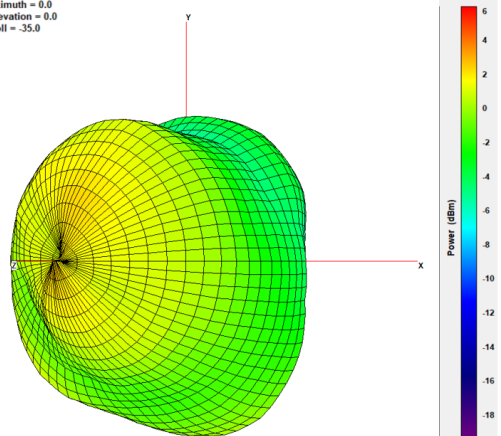
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Ground Plane

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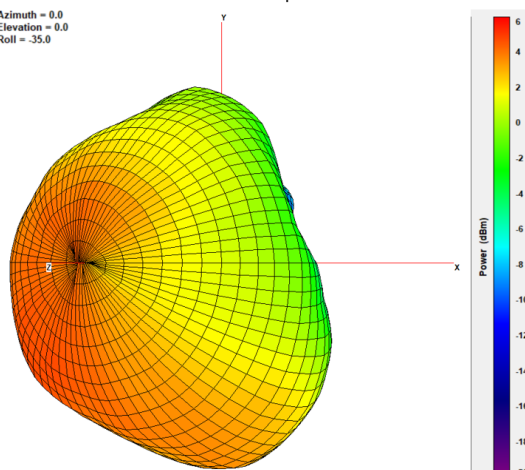
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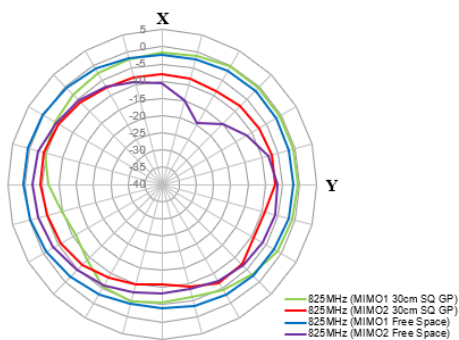


MIMO 2 – Free Space

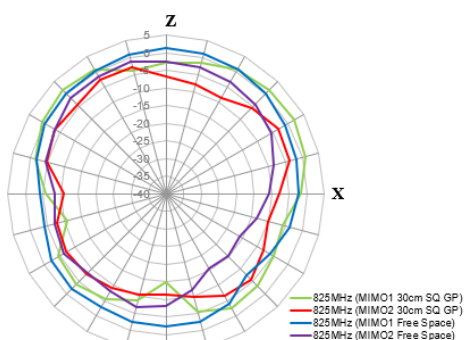
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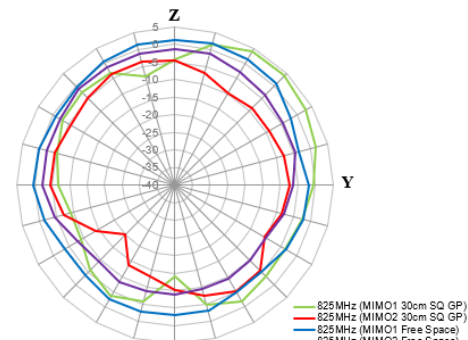
XY Plane



XZ Plane



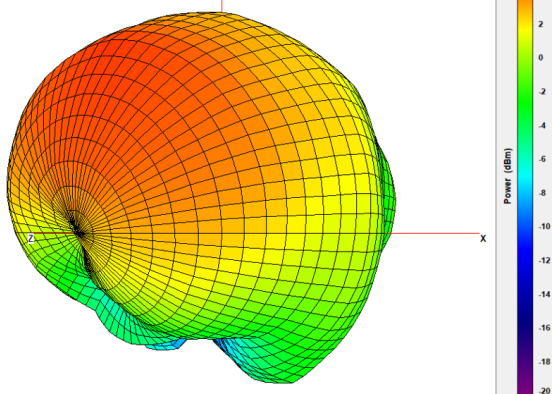
YZ Plane



880MHz

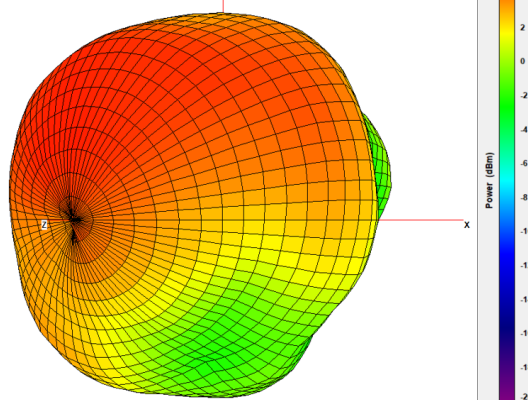
MIMO 1 – 30cmx30cm
Ground Plane

Azimuth = 0.0
Elevation = 0.0
Roll = -35.0



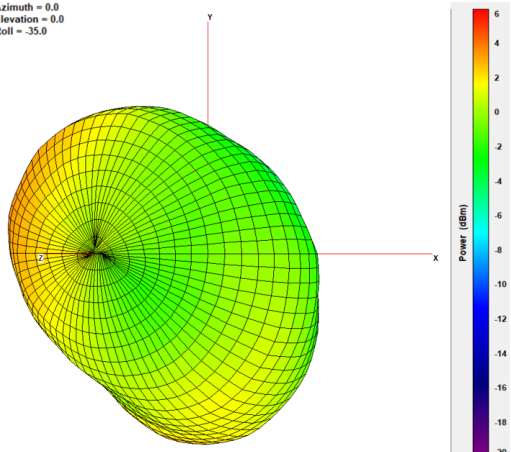
MIMO 2 – 30cmx30cm
Ground Plane

Azimuth = 0.0
Elevation = 0.0
Roll = -35.0



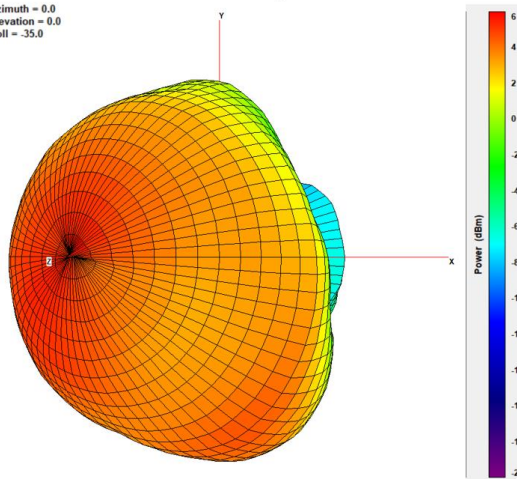
MIMO 1 – Free Space

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Elevation = 0.0
Roll = -35.0

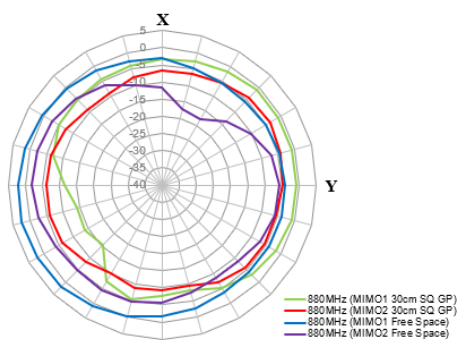


MIMO 2 – Free Space

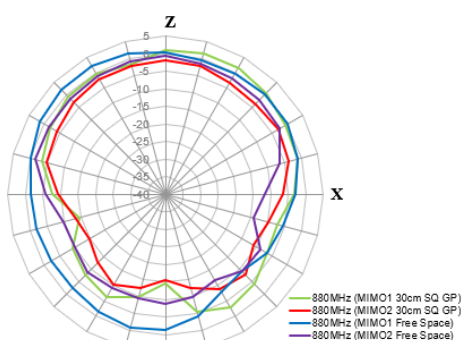
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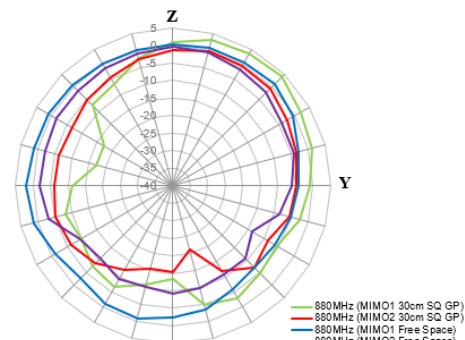
XY Plane



XZ Plane



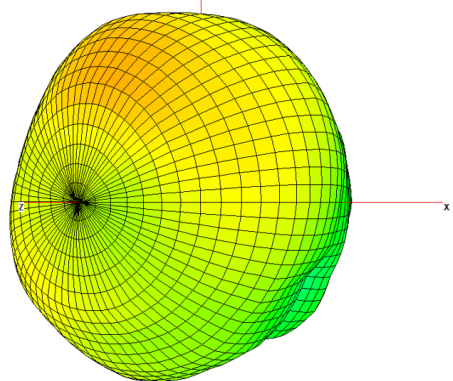
YZ Plane



960MHz

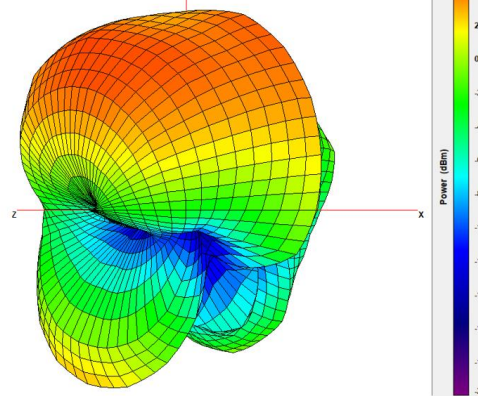
MIMO 1 – 30cmx30cm
Ground Plane

Azimuth = 0.0
Elevation = 0.0
Roll = -35.0



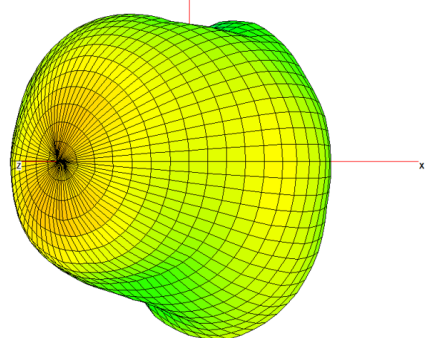
MIMO 2 – 30cmx30cm
Ground Plane

Azimuth = 0.0
Elevation = 0.0
Roll = -35.0



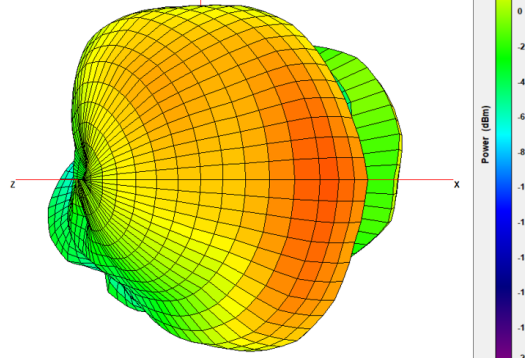
MIMO 1 – Free Space

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Elevation = 0.0
Roll = -35.0

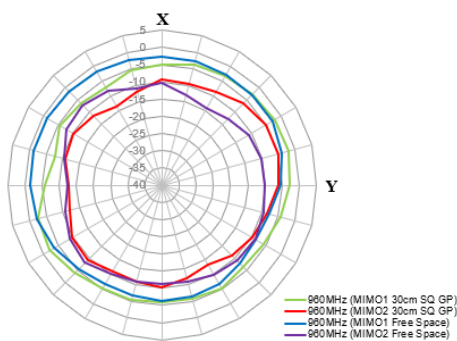


MIMO 2 – Free Space

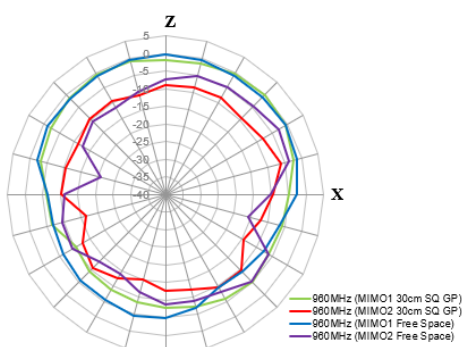
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Elevation = 0.0
Roll = -35.0



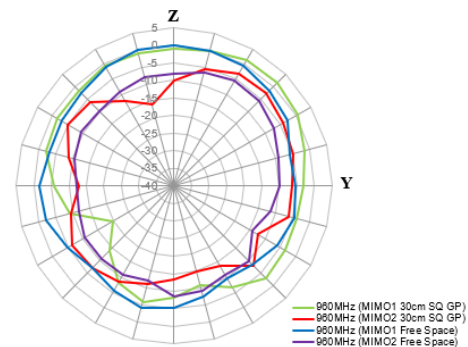
XY Plane



XZ Plane



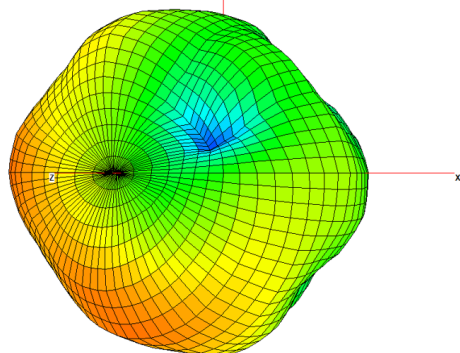
YZ Plane



1710MHz

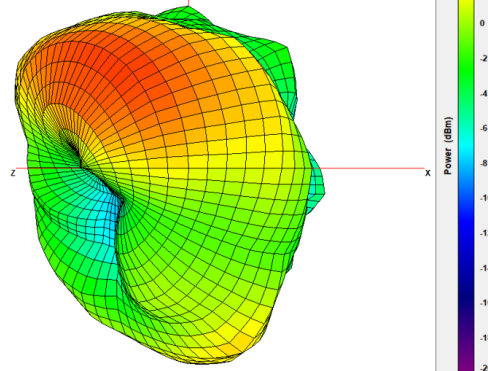
MIMO 1 – 30cmx30cm
Ground Plane

Azimuth = 0.0
Elevation = 0.0
Roll = -35.0



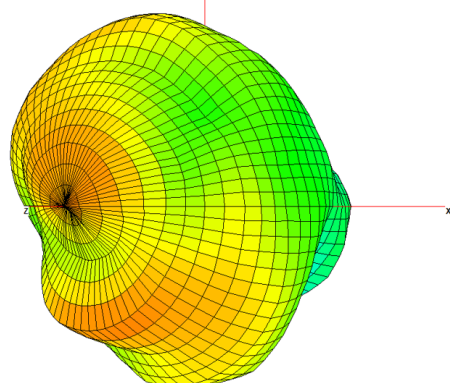
MIMO 2 – 30cmx30cm
Ground Plane

Azimuth = 0.0
Elevation = 0.0
Roll = -35.0



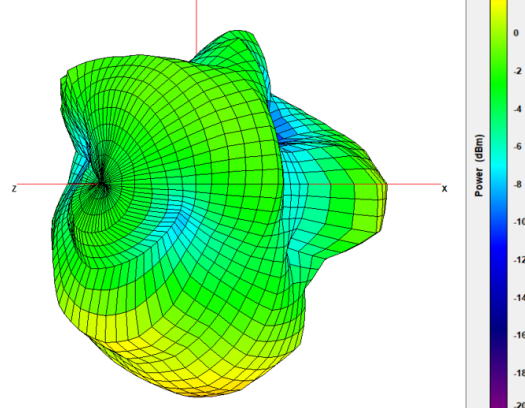
MIMO 1 – Free Space

Azimuth = 0.0
Elevation = 0.0
Roll = -35.0

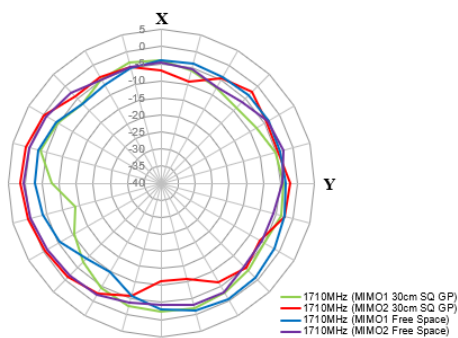


MIMO 2 – Free Space

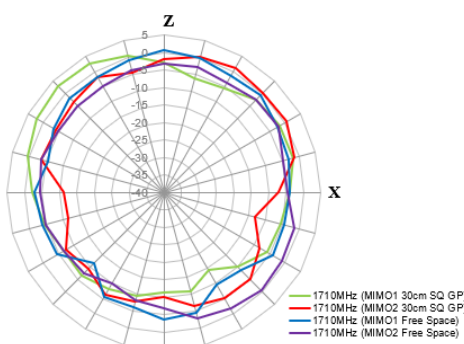
Azimuth = 0.0
Elevation = 0.0
Roll = -35.0



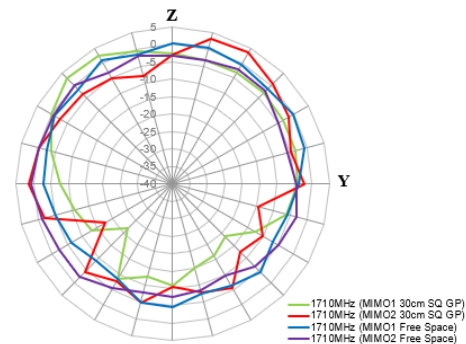
XY Plane



XZ Plane



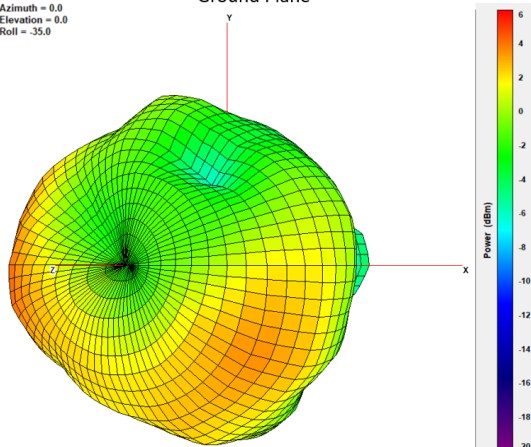
YZ Plane



1880MHz

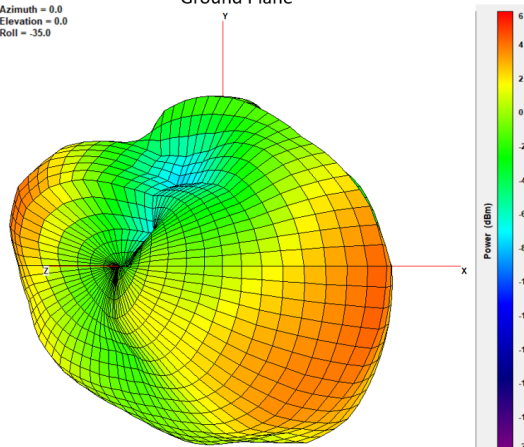
MIMO 1 – 30cmx30cm
Ground Plane

Azimuth = 0.0
Elevation = 0.0
Roll = -35.0



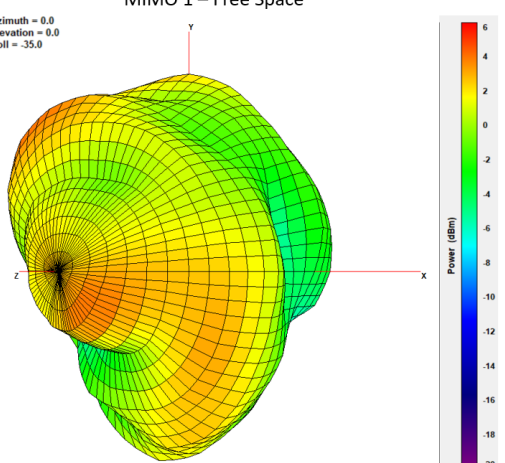
MIMO 2 – 30cmx30cm
Ground Plane

Azimuth = 0.0
Elevation = 0.0
Roll = -35.0



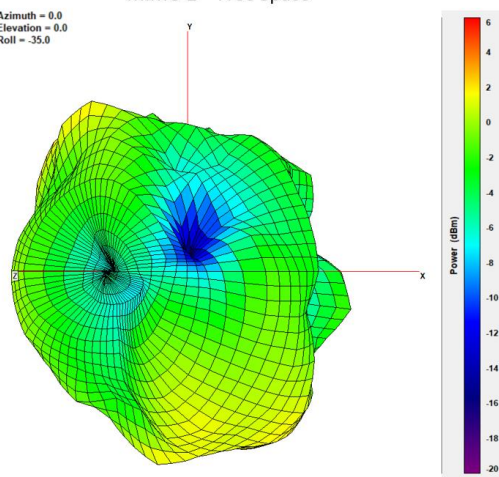
MIMO 1 – Free Space

Azimuth = 0.0
Elevation = 0.0
Roll = -35.0

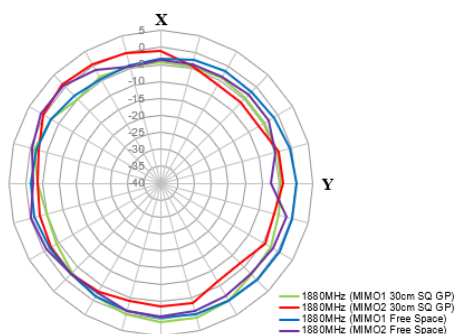


MIMO 2 – Free Space

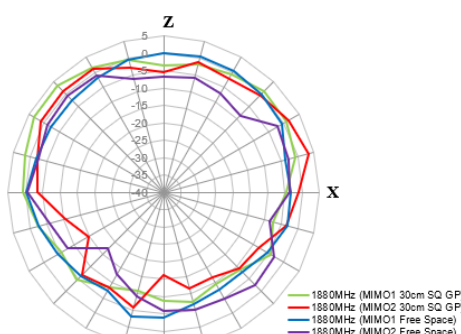
Azimuth = 0.0
Elevation = 0.0
Roll = -35.0



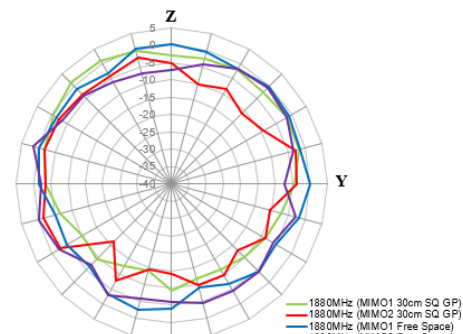
XY Plane



XZ Plane



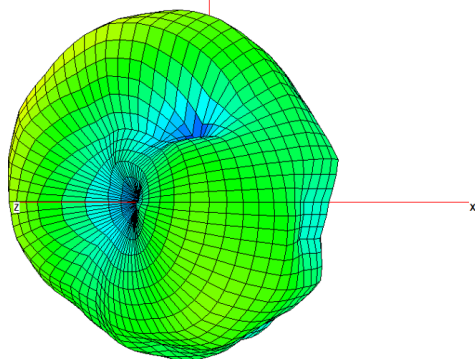
YZ Plane



1990MHz

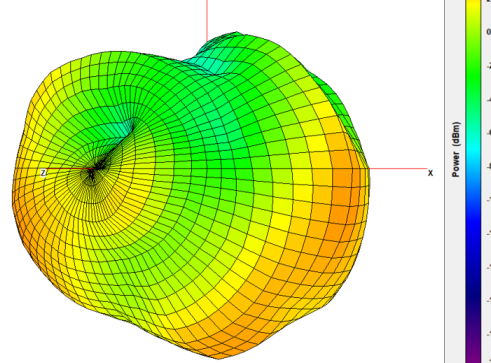
MIMO 1 – 30cmx30cm
Ground Plane

Azimuth = 0.0
Elevation = 0.0
Roll = -35.0



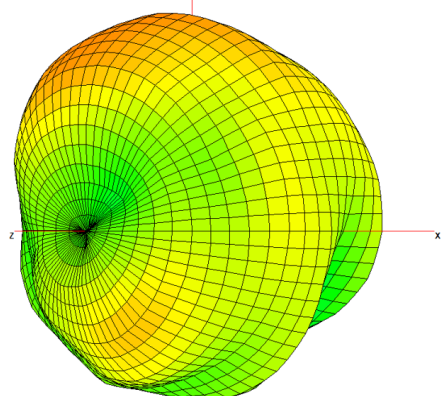
MIMO 2 – 30cmx30cm
Ground Plane

Azimuth = 0.0
Elevation = 0.0
Roll = -35.0



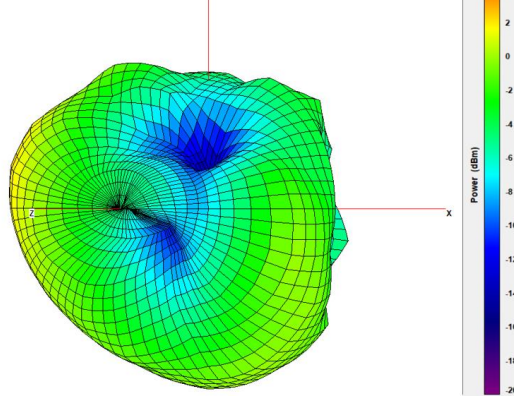
MIMO 1 – Free Space

Azimuth = 0.0
Elevation = 0.0
Roll = -35.0

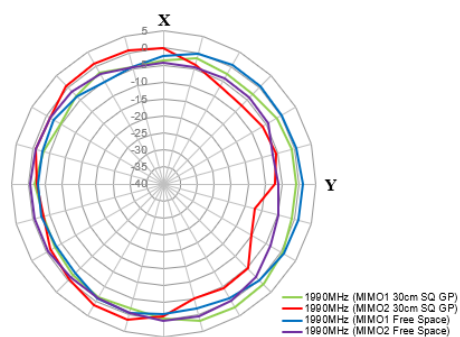


MIMO 2 – Free Space

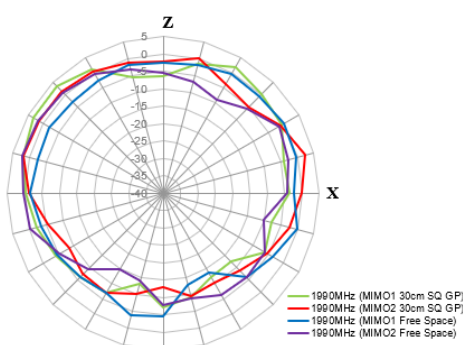
Azimuth = 0.0
Elevation = 0.0
Roll = -35.0



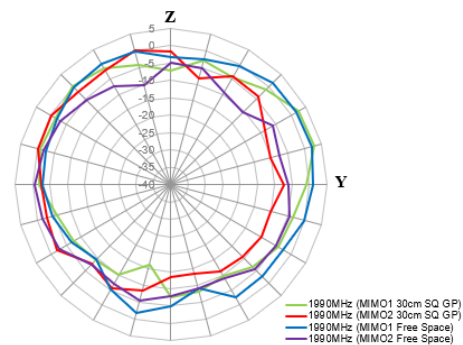
XY Plane



XZ Plane



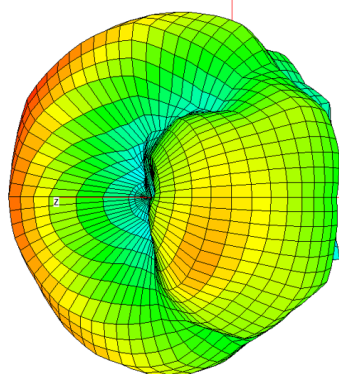
YZ Plane



2170MHz

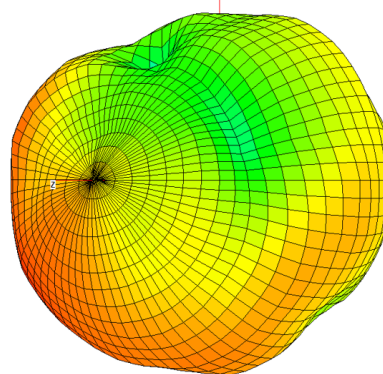
MIMO 1 – 30cmx30cm
Ground Plane

Azimuth = 0.0
Elevation = 0.0
Roll = -35.0



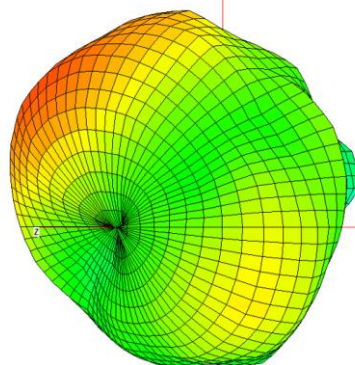
MIMO 2 – 30cmx30cm
Ground Plane

Azimuth = 0.0
Elevation = 0.0
Roll = -35.0



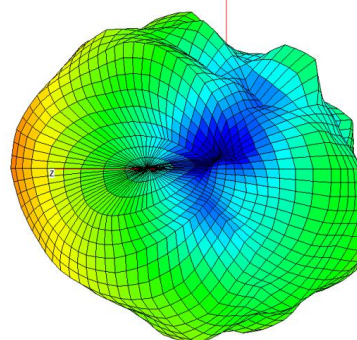
MIMO 1 – Free Space

Azimuth = 0.0
Elevation = 0.0
Roll = -35.0

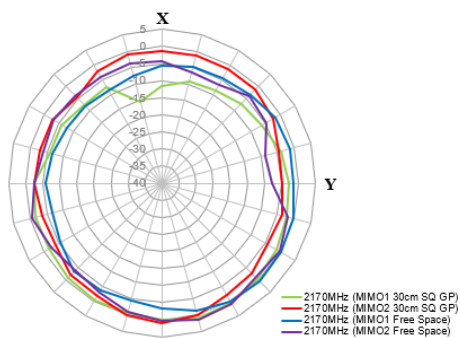


MIMO 2 – Free Space

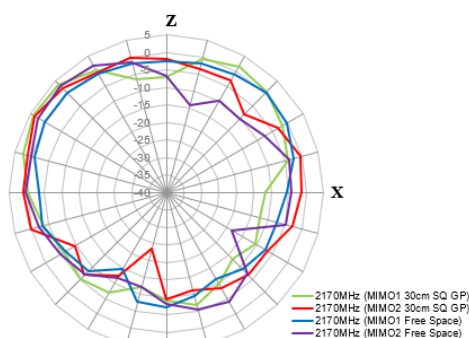
Azimuth = 0.0
Elevation = 0.0
Roll = -35.0



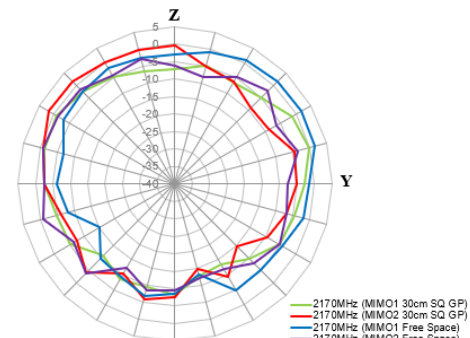
XY Plane



XZ Plane



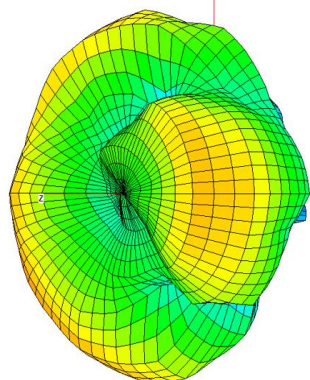
YZ Plane



2300MHz

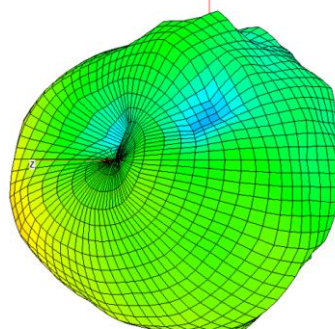
MIMO 1 – 30cmx30cm
Ground Plane

Azimuth = 0.0
Elevation = 0.0
Roll = -35.0



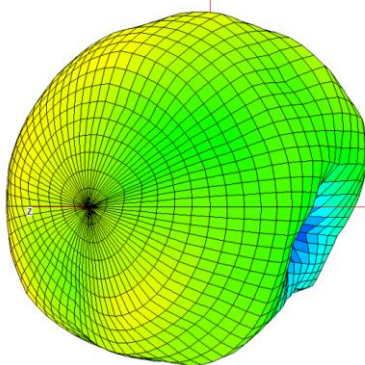
MIMO 2 – 30cmx30cm
Ground Plane

Azimuth = 0.0
Elevation = 0.0
Roll = -35.0



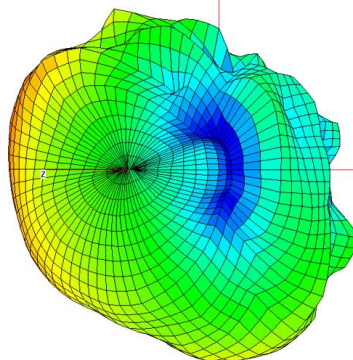
MIMO 1 – Free Space

Azimuth = 0.0
Elevation = 0.0
Roll = -35.0

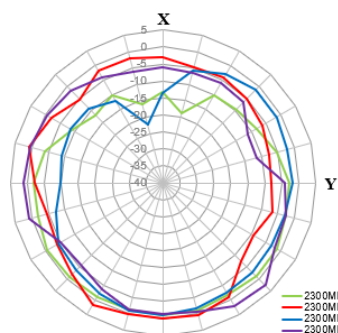


MIMO 2 – Free Space

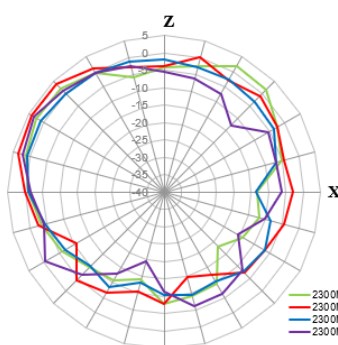
Azimuth = 0.0
Elevation = 0.0
Roll = -35.0



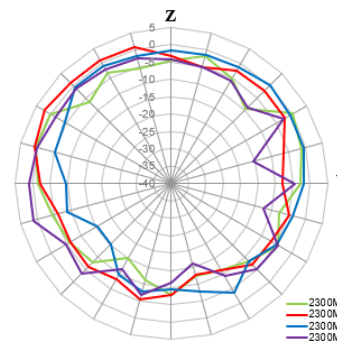
XY Plane



XZ Plane



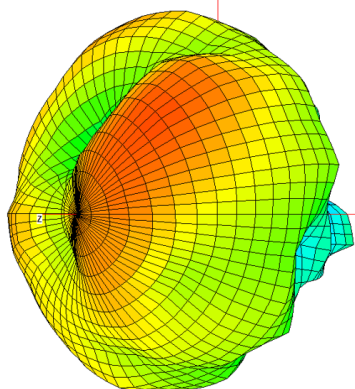
YZ Plane



2500MHz

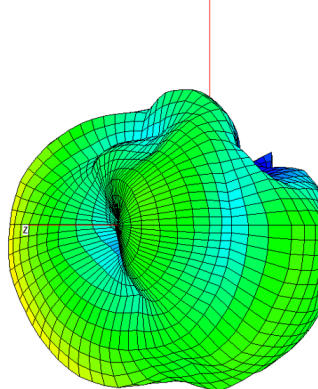
MIMO 1 – 30cmx30cm
Ground Plane

Azimuth = 0.0
Elevation = 0.0
Roll = -35.0



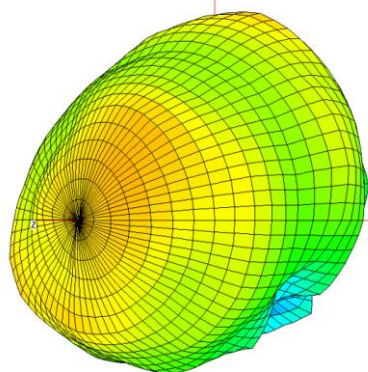
MIMO 2 – 30cmx30cm
Ground Plane

Azimuth = 0.0
Elevation = 0.0
Roll = -35.0



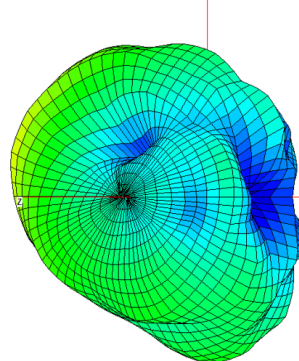
MIMO 1 – Free Space

Azimuth = 0.0
Elevation = 0.0
Roll = -35.0

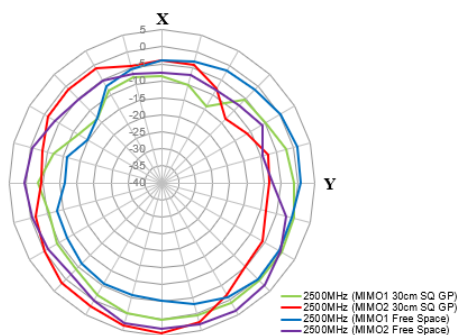


MIMO 2 – Free Space

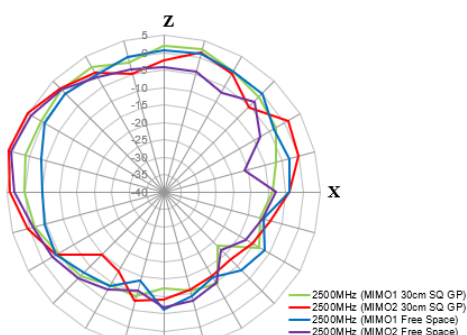
Azimuth = 0.0
Elevation = 0.0
Roll = -35.0



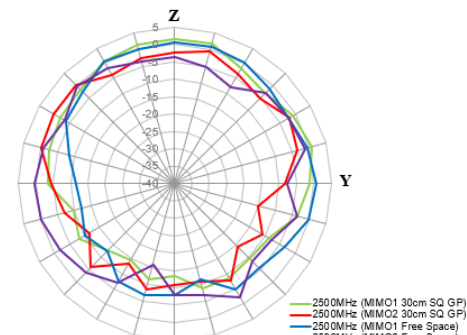
XY Plane



XZ Plane



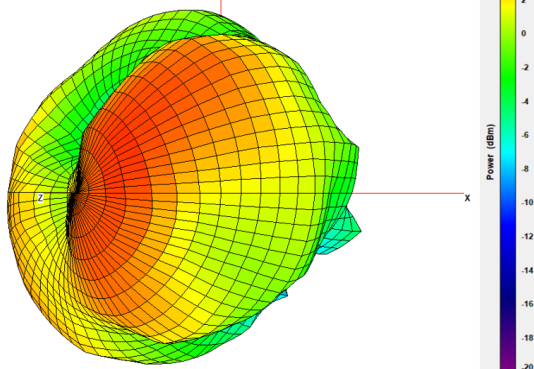
YZ Plane



2570MHz

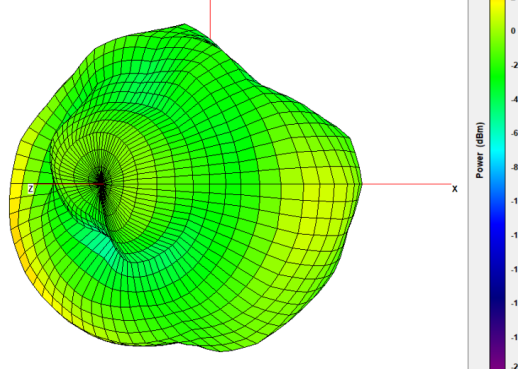
MIMO 1 – 30cmx30cm
Ground Plane

Azimuth = 0.0
Elevation = 0.0
Roll = -35.0



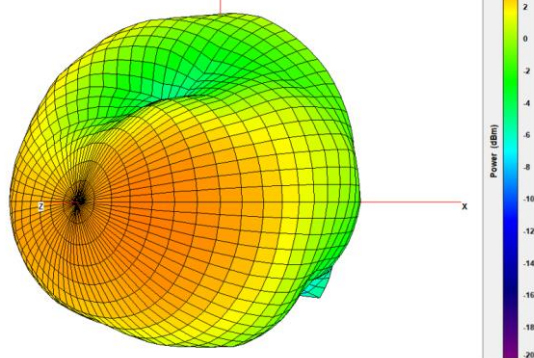
MIMO 2 – 30cmx30cm
Ground Plane

Azimuth = 0.0
Elevation = 0.0
Roll = -35.0



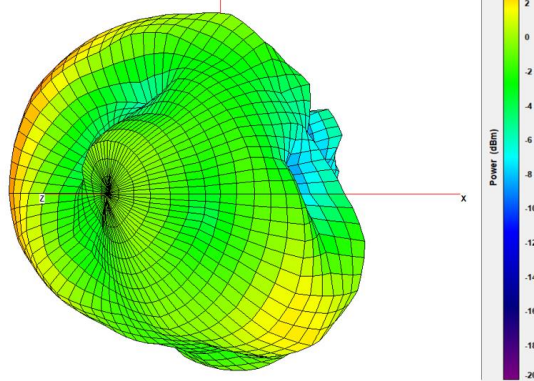
MIMO 1 – Free Space

Azimuth = 0.0
Elevation = 0.0
Roll = -35.0

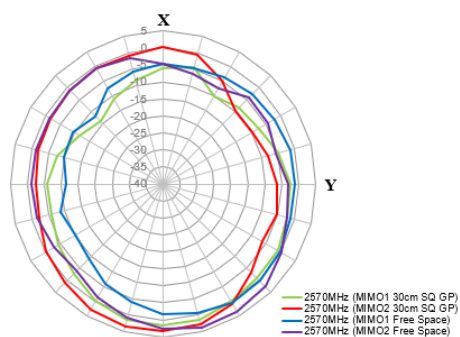


MIMO 2 – Free Space

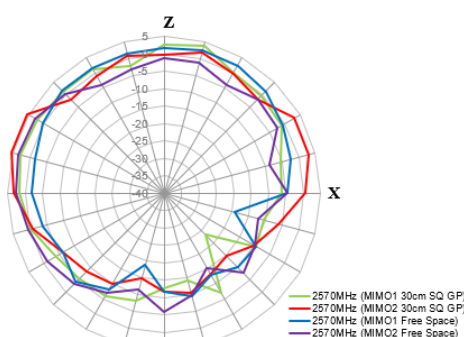
Azimuth = 0.0
Elevation = 0.0
Roll = -35.0



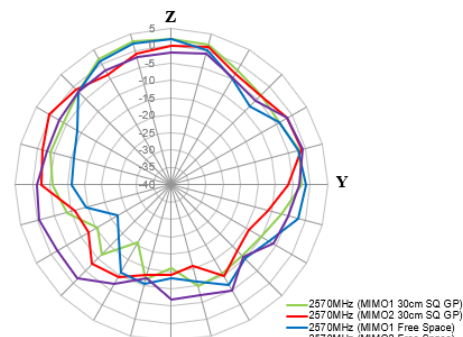
XY Plane



XZ Plane

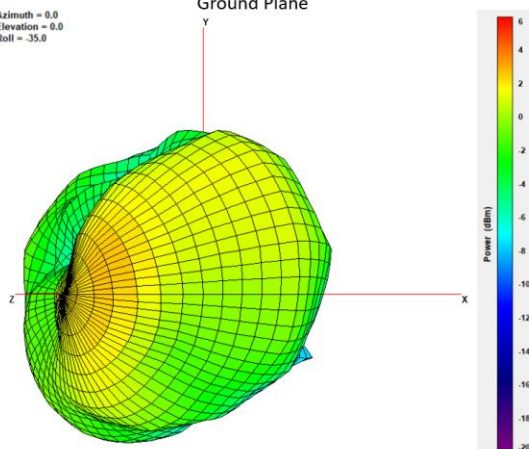


YZ Plane

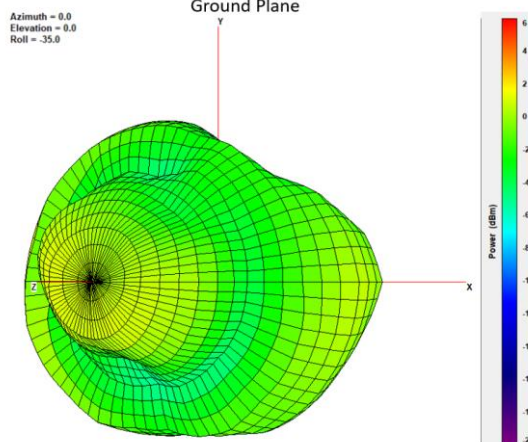


2700MHz

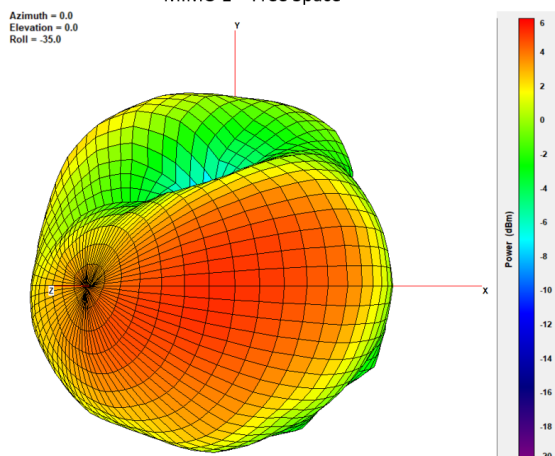
MIMO 1 – 30cmx30cm
Ground Plane



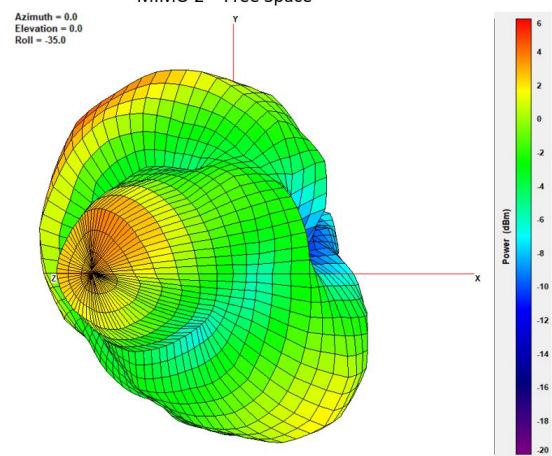
MIMO 2 – 30cmx30cm
Ground Plane



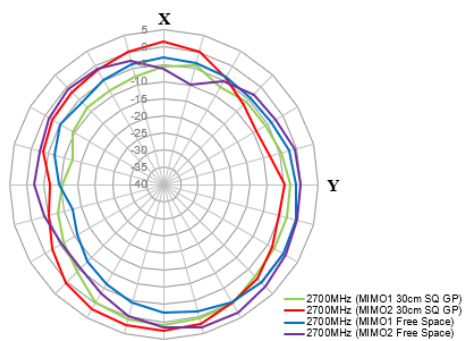
MIMO 1 – Free Space



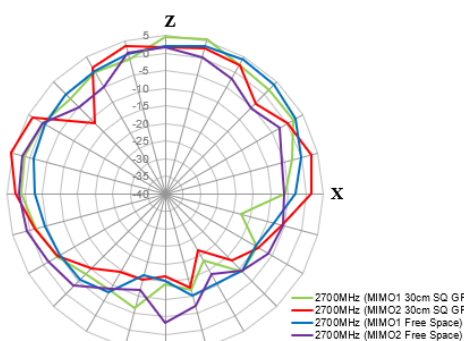
MIMO 2 – Free Space



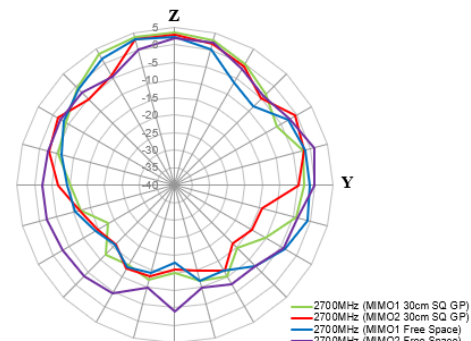
XY Plane



XZ Plane



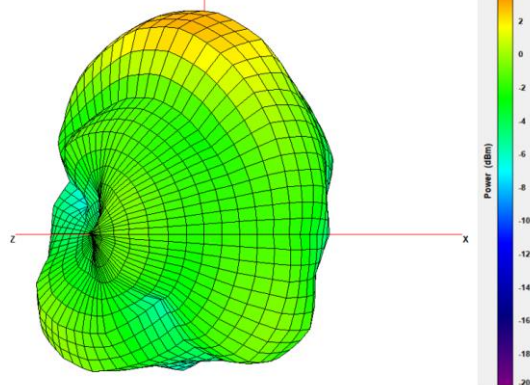
YZ Plane



3200MHz

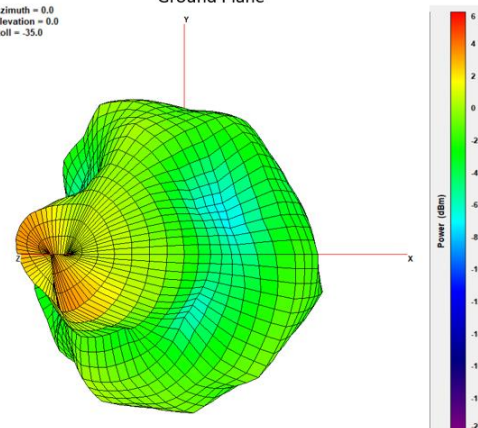
MIMO 1 – 30cmx30cm
Ground Plane

Azimuth = 0.0
Elevation = 0.0
Roll = -35.0



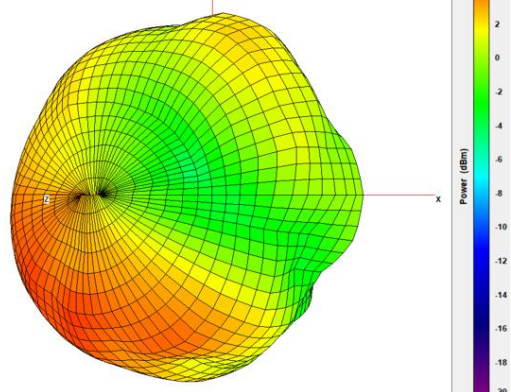
MIMO 2 – 30cmx30cm
Ground Plane

Azimuth = 0.0
Elevation = 0.0
Roll = -35.0



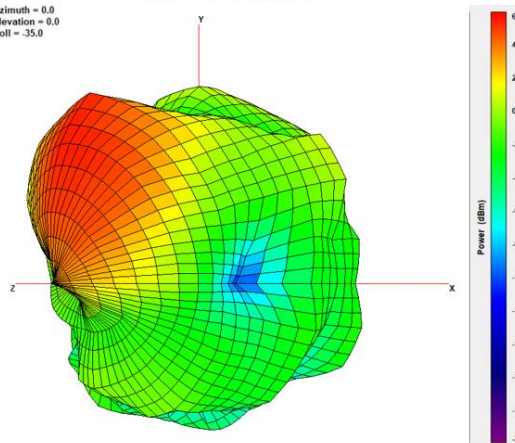
MIMO 1 – Free Space

Azimuth = 0.0
Elevation = 0.0
Roll = -35.0

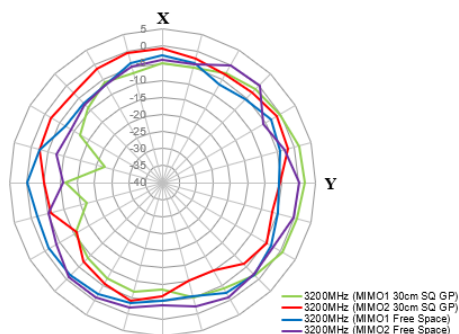


MIMO 2 – Free Space

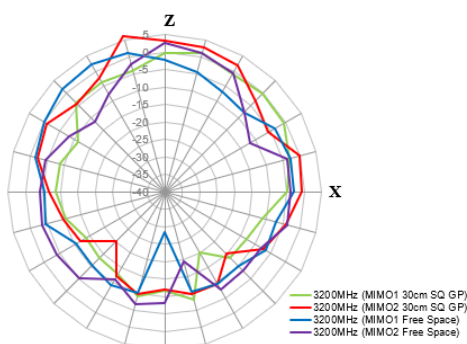
Azimuth = 0.0
Elevation = 0.0
Roll = -35.0



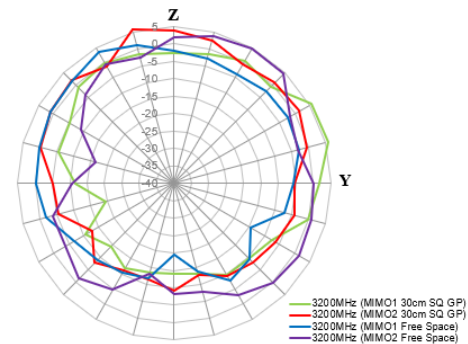
XY Plane



XZ Plane



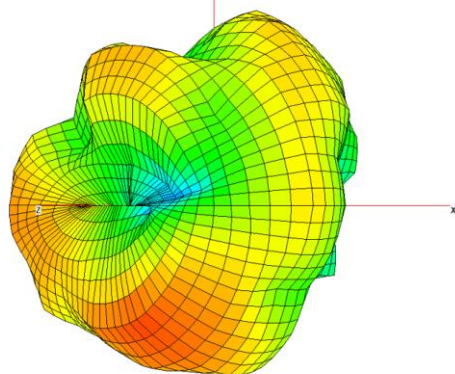
YZ Plane



4200MHz

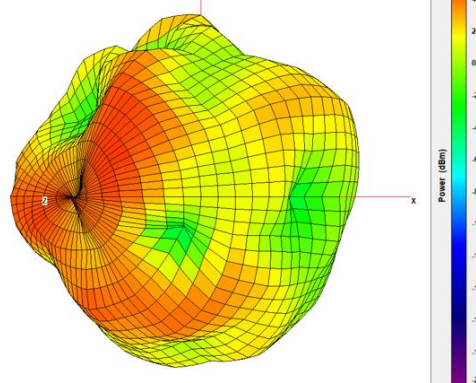
MIMO 1 – 30cmx30cm
Ground Plane

Azimuth = 0.0
Elevation = 0.0
Roll = -35.0



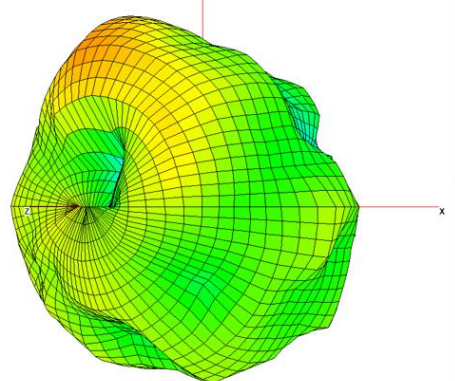
MIMO 2 – 30cmx30cm
Ground Plane

Azimuth = 0.0
Elevation = 0.0
Roll = -35.0



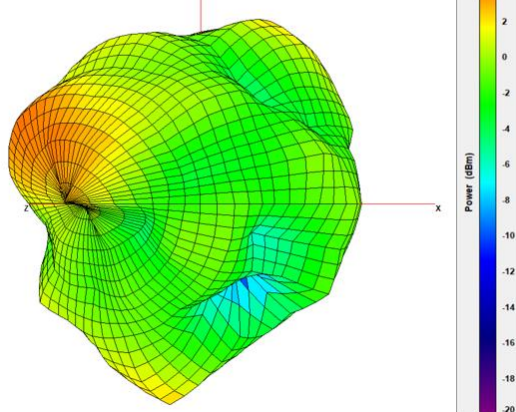
MIMO 1 – Free Space

Azimuth = 0.0
Elevation = 0.0
Roll = -35.0



MIMO 2 – Free Space

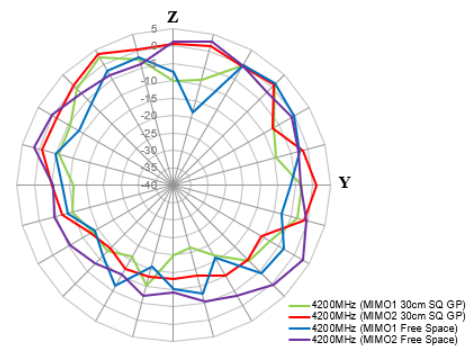
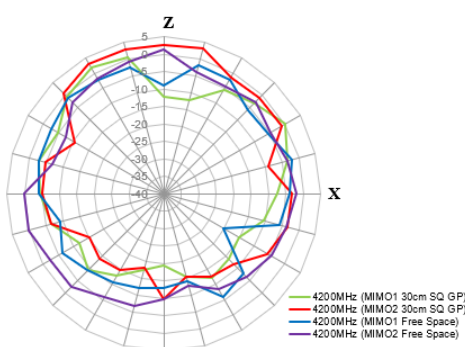
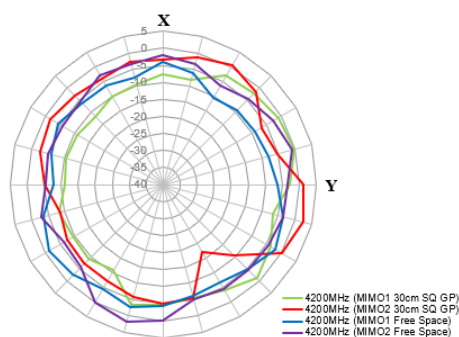
Azimuth = 0.0
Elevation = 0.0
Roll = -35.0



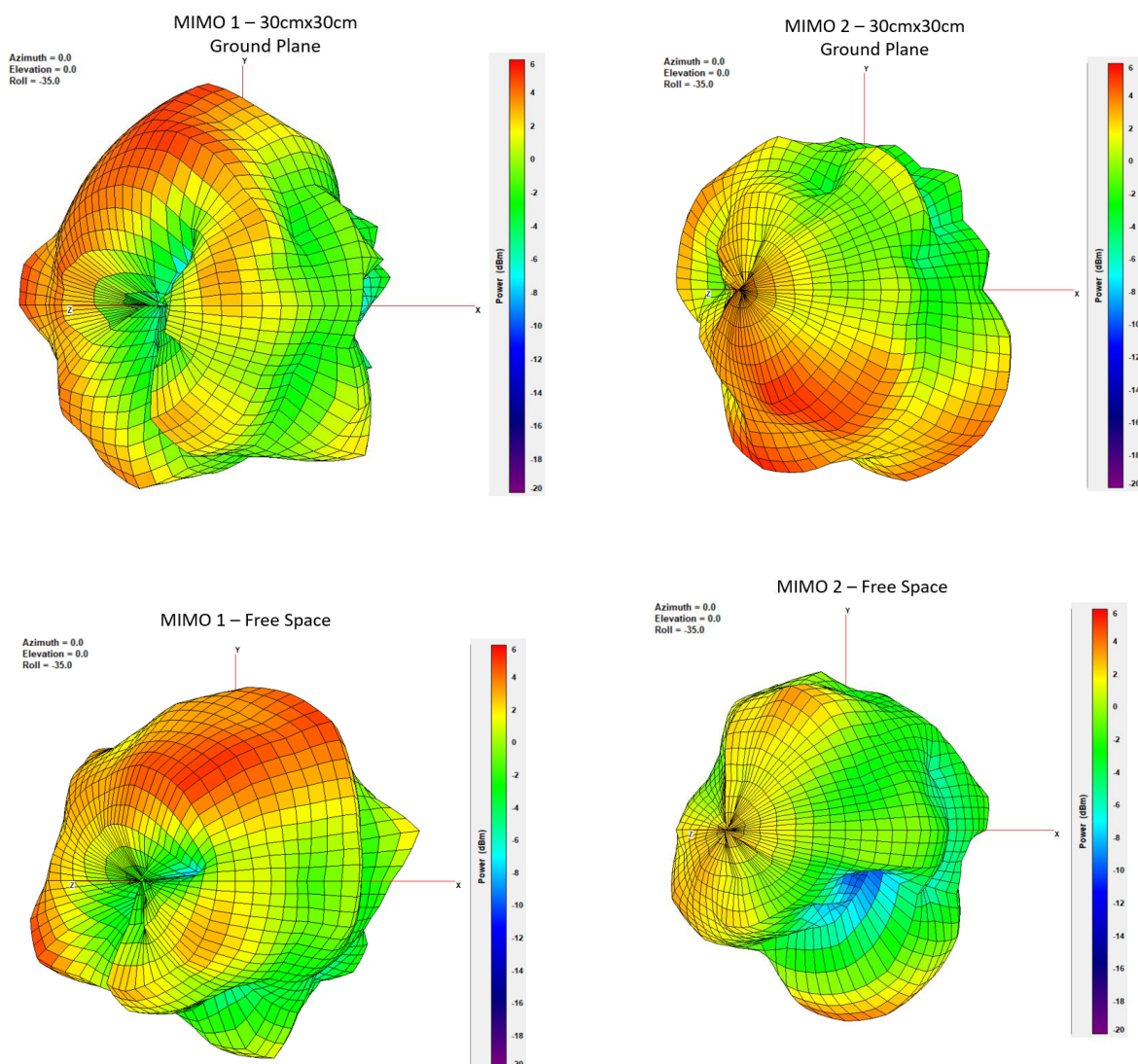
XY Plane

XZ Plane

YZ Plane



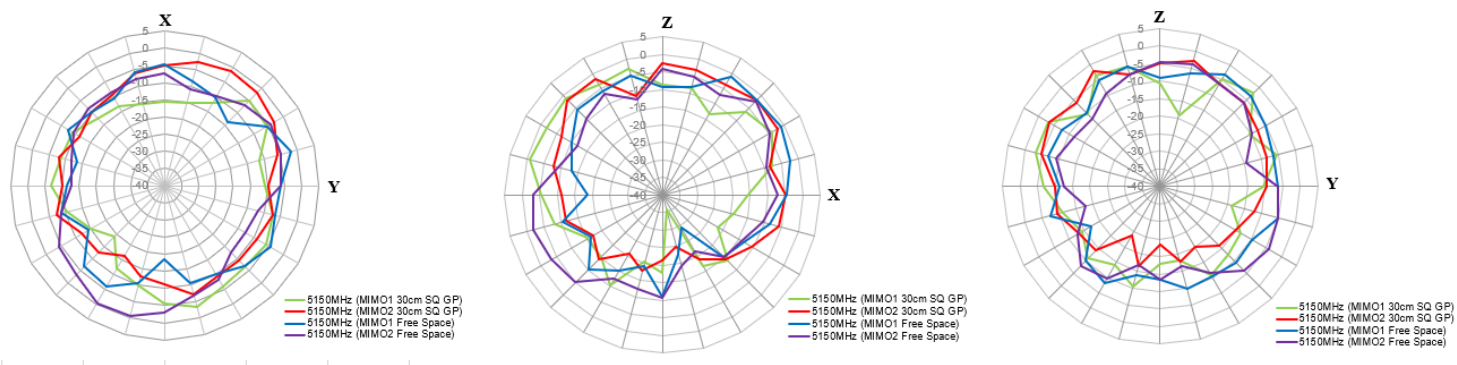
5150MHz



XY Plane

XZ Plane

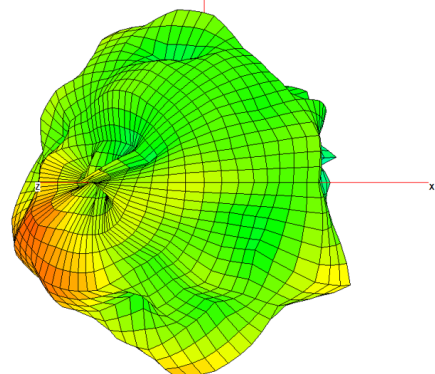
YZ Plane



5550MHz

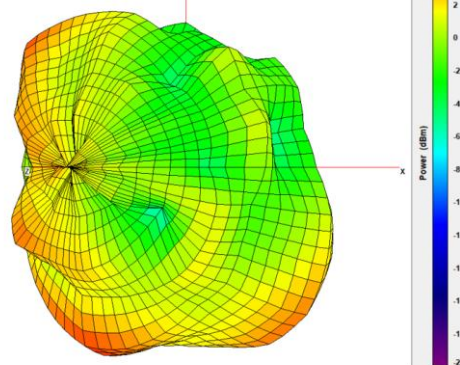
MIMO 1 – 30cmx30cm
Ground Plane

Azimuth = 0.0
Elevation = 0.0
Roll = -35.0



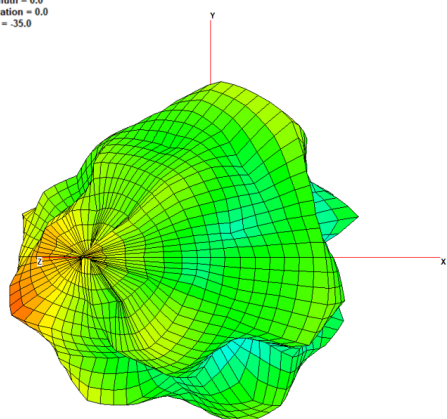
MIMO 2 – 30cmx30cm
Ground Plane

Azimuth = 0.0
Elevation = 0.0
Roll = -35.0



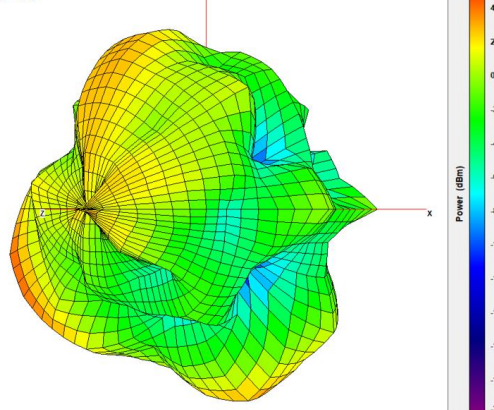
MIMO 1 – Free Space

Azimuth = 0.0
Elevation = 0.0
Roll = -35.0

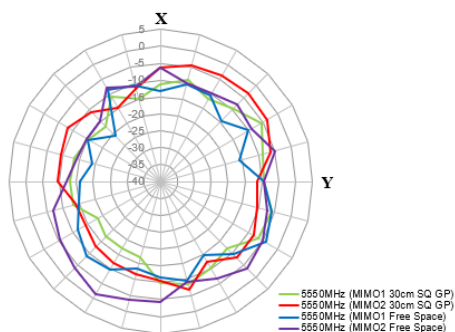


MIMO 2 – Free Space

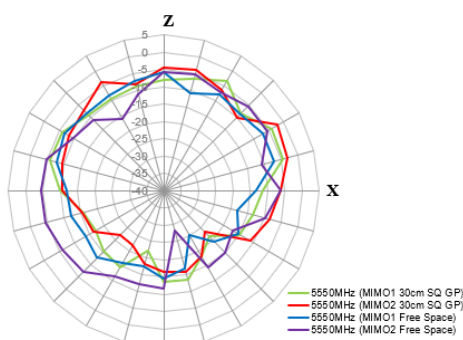
Azimuth = 0.0
Elevation = 0.0
Roll = -35.0



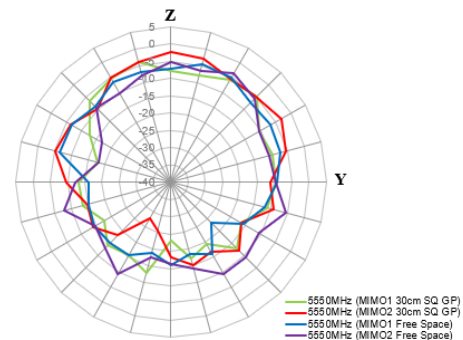
XY Plane



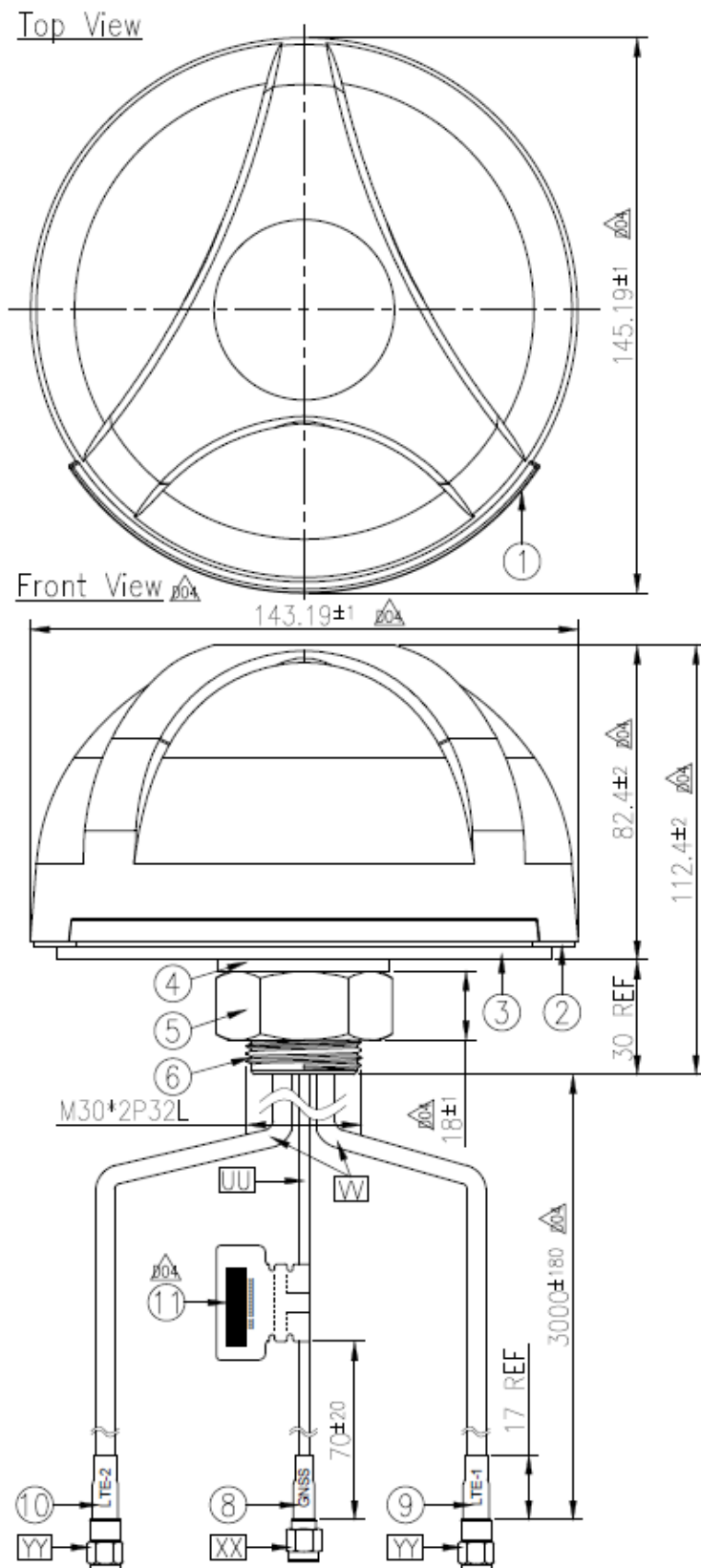
XZ Plane



YZ Plane



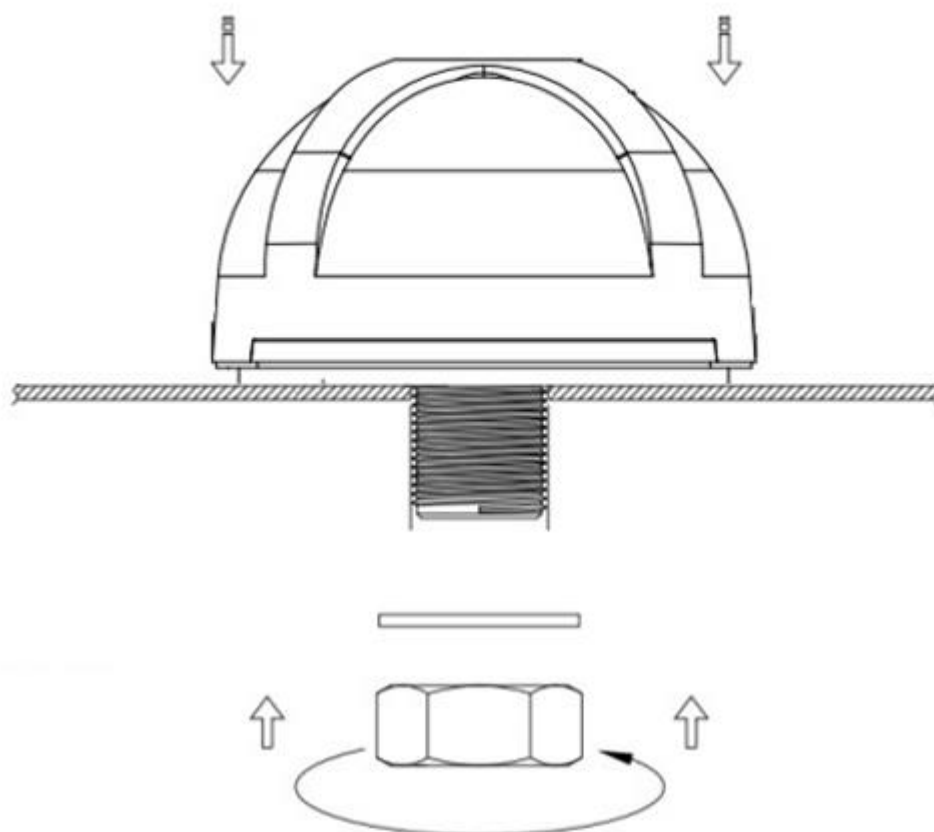
5. Mechanical Drawing



	Name	P/N	Material	Finish	QTY
1	Housing	000112L060015A	ABS+PC	White	1
2	Waterproof Rubber	000711F000015A	Silicone Rubber	Black	1
3	Adhesive Foam (Black Foam)	001011F030015A	3M 9448HK+CR4305	White Liner	1
4	Washer M30	000411F010015A	Steel	Ni Plated	1
5	M30 Nut	000411F000015A	Steel	Ni Plated	1
6	M30x2P Thread 32L	000311F000015A	Zinc Alloy	Ni Plated	1
7	Rubber Stopper	000711F010015A	Silicone Rubber	Black	1
8	Heat Shrink Tube(GNSS)	001316C000000A	PE	Blue Tube/White Test	1
9	Heat Shrink Tube(LTE-1)	001317C020000A	PE	Red Tube/White Test	1
10	Heat Shrink Tube(LTE-2)	001317C030000A	PE	Red Tube/White Test	1
11	Barcode Label	001013G000015A	PEPA	White	1

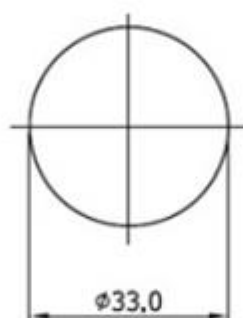
	Name	P/N	Material	Finish	QTY
UU	RG174 Coaxial Cable	301315C000000A	PVC	Black	1
W	CFD200	301415C010000A	PE	Black	2
XX	SMA(M)ST	200214000015A	Brass	Au Plated	1
YY	SMA(M)ST	200212G010015A	Brass	Au Plated	2

6. Installation



Recommended torque for mounting: 5-7Nm

(Torque value obtained with antenna mounted on 1mm thick SUS-316 bracket)



**Recommended
Mounting Hole**

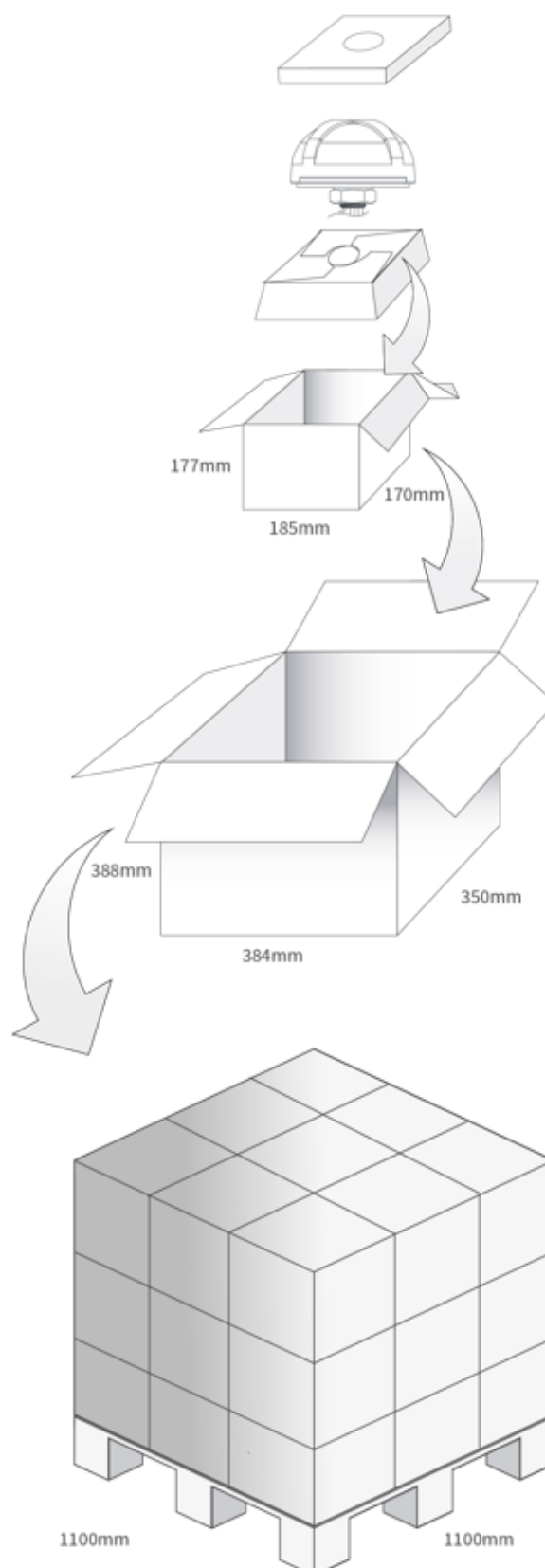
Unit:mm

7. Packaging

1pc MA710.A.ABI.001 per box
Box Dimensions – 185 x 170 x 177mm
Weight – 1.53Kg

8pcs MA710.A.ABI.001 per Carton
Carton Dimensions – 384 x 350 x 388mm
Weight – 11.2Kg

32 Cartons per pallet
Pallet Dimensions – 1100 x 1100mm



Changelog for the datasheet

SPE-14-8-011 – MA710.W.A.ABI.001

Revision: C (Current Version)

Date:	2021-11-12
Changes:	Rebranded as 5G, updated datasheet template to new template & updated installation guide with new torque figures.
Changes Made by:	Gary West

Previous Revisions

Revision: B

Date:	2017-04-06
Changes:	Added LTE Band Table
Changes Made by:	Peter Monahan

Revision: A (Original First Release)

Date:	2014-01-21
Notes:	
Author:	SS



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