



TAOGLAS®



Datasheet

5G/4G Terminal Mount Monopole Antenna

Part No:
TG.55.8113

Description:

5G/4G Terminal Mount Monopole Antenna with 90° Hinged SMA (M)

Features:

Covering Sub 6GHz 5G NR Bands

Covering Worldwide 4G Bands

600MHz-6GHz Bandwidth

High Efficiency up to 80%

3G/2G Fallback with NB-IoT and CAT-M capabilities

90° Hinged Right Angle SMA (M) Connector

Straight Dimensions: 172 x 23.9 x 13 mm

Right Angle Dimensions: 148 x 42.4 x 13 mm

RoHS & REACH Compliant

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1. Introduction



The Taoglas TG.55.8113 is a 5G/4G monopole antenna, designed primarily for use with modules and devices that require high efficiency and peak gain. It delivers best in class throughput on all major cellular bands worldwide, perfect for access points, terminals, and routers. The TG.55 covers many 5G NR Sub 6GHz bands including the new Extended LTE Band 71. It has an SMA (M) connector as standard and is an ideal solution for any device requiring reliable performance in a slim form factor.

Typical Applications include:

- Gateways & Routers
- Smart Metering
- Vending Machines
- Industrial IoT
- Smart Home
- Connected Enterprise

The TG.55 exhibits an efficiency of up to 80% across wideband 5G/4G bands and is backward compatible with 3G/2G cellular applications. The TG.55 is a fully omnidirectional antenna as seen in the radiation patterns and is stable across all bands. The SMA (M) connector hinge mechanism allows the antenna to be rotated into the preferred orientation which helps to avoid other antennas or objects. This also helps with isolation by pointing the antennas in different directions when used in MIMO systems or when other antennas are present on the same device. The antenna blade can swivel 90 degrees from the connector accommodating different installation configurations.

The TG.55.8113 is also available with a white enclosure – TG.55.8113W. The connector can also be customized based on an MOQ.

Contact your regional Taoglas customer support team to request these services or additional support to integrate and test this antenna's performance in your device.

2. Specifications

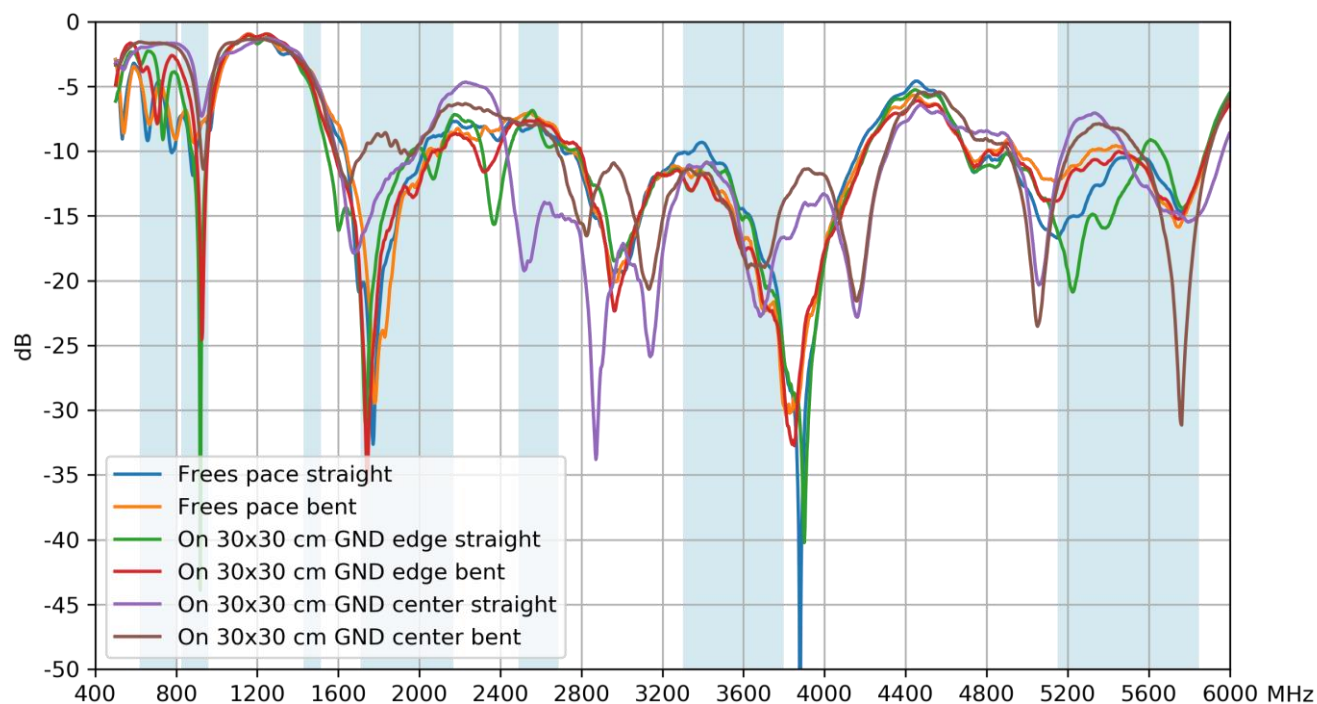
Electrical										
Frequency (MHz)	5G NR	LTE	GSM	5G NR B	GPS	DCS	UMTS1	LTE	5G NR B	LTE
	Band 71	700	850/900	74, 75, 76	L1			2600	77, 78, 79	5200
	617 ~698	698 ~824	824 ~960	1427 ~1518	1563 ~1587	1710 ~1880	1920 ~2170	2300 ~2690	3300 ~5000	5150 ~5925
Efficiency (%)										
Free space straight	35.93	25.92	38.33	38.08	46.37	69.80	59.03	44.92	50.45	45.96
Free space bent	43.77	30.56	51.77	44.23	53.07	78.02	65.02	51.53	48.91	34.98
On 30x30 cm GND edge straight	44.39	39.43	59.39	49.21	57.94	66.24	52.47	42.63	24.71	21.90
On 30x30 cm GND edge bent	42.05	30.02	52.28	46.78	48.79	68.89	54.17	39.78	21.31	22.53
On 30x30 cm GND centre straight	9.12	7.30	21.46	38.09	51.59	65.46	48.14	42.25	36.68	24.48
On 30x30 cm GND centre bent	4.88	10.77	34.32	36.52	46.16	60.36	47.55	42.15	36.82	21.93
Average Gain (dB)										
Free space straight	-4.45	-5.86	-4.16	-4.19	-3.34	-1.56	-2.29	-3.48	-2.97	-3.38
Free space bent	-3.59	-5.15	-2.86	-3.54	-2.75	-1.08	-1.87	-2.88	-3.11	-4.56
On 30x30 cm GND edge straight	-3.53	-4.04	-2.26	-3.08	-2.37	-1.79	-2.80	-3.70	-6.07	-6.60
On 30x30 cm GND edge bent	-3.76	-5.23	-2.82	-3.30	-3.12	-1.62	-2.66	-4.00	-6.71	-6.47
On 30x30 cm GND centre straight	-10.40	11.37	-6.68	-4.19	-2.87	-1.84	-3.17	-3.74	-4.36	-6.11
On 30x30 cm GND centre bent	-13.12	-9.68	-4.64	-4.37	-3.36	-2.19	-3.23	-3.75	-4.34	-6.59
Peak Gain (dBi)										
Free space straight	-0.68	-2.14	0.15	-0.74	-0.59	1.37	0.93	0.73	1.51	1.73
Free space bent	0.14	-1.88	0.58	0.87	1.98	3.09	2.45	1.69	1.50	0.70
On 30x30 cm GND edge straight	0.94	-0.32	2.56	1.00	1.26	1.93	1.42	1.24	-0.84	-1.48
On 30x30 cm GND edge bent	0.63	-1.99	-0.02	-0.59	0.37	1.66	0.49	0.13	0.53	-0.25
On 30x30 cm GND centre straight	-5.47	-5.46	0.02	0.75	2.30	3.44	2.48	2.36	4.66	2.40
On 30x30 cm GND centre bent	-9.07	-6.11	-1.12	3.76	4.99	6.10	4.84	3.46	3.92	1.80
Impedance	50Ω									
Polarization	Linear									
Radiation Pattern	Omni									
Max. input power	2W									

Mechanical	
SMA Connector Diameter	13mm
Planner Dimension	172mm * 23.88mm
Casing	ABS + PC
Connector	SMA (M)
Weight	24.3g
Environmental	
Temperature Range	-40°C to 85°C
Humidity	Non-condensing 65°C 95% RH

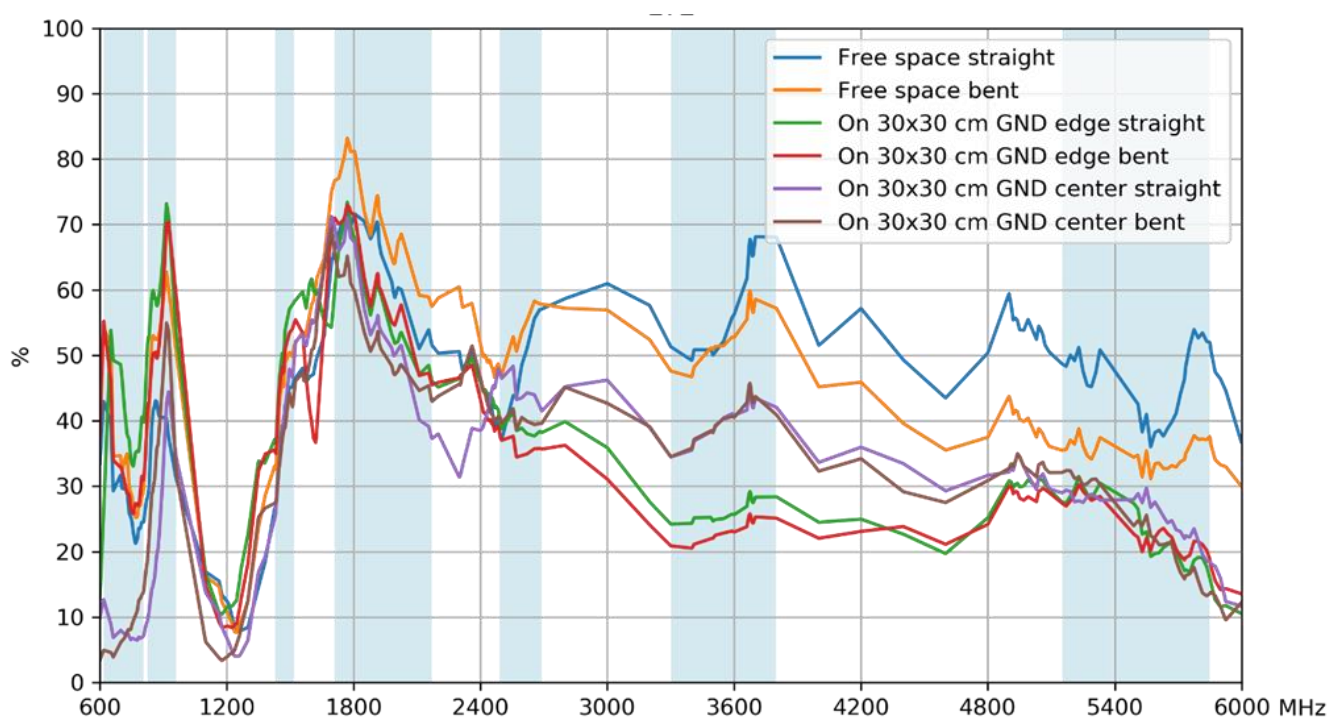
5G/4G Bands								
Band Number	5G NR / FR1 / LTE / LTE-Advanced / WCDMA / HSPA / HSPA+ / TD-SCDMA							
	Uplink	Downlink	Free space Bent	Free space Straight	30x30cm GND edge bent	30x30cm GND edge straight	30x30cm GND centre bent	30x30cm GND centre straight
1	UL: 1920 to 1980	DL: 2110 to 2170	✓	✓	✓	✓	✓	✓
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	✓	✓	✓	✓	✓	✓
77		3300 to 4200	✓	✓	✓	✓	✓	✓
78		3300 to 3800	✓	✓	✓	✓	✓	✓
79		4400 to 5000	✓	✓	✓	✓	✓	✓

3. Antenna Characteristics

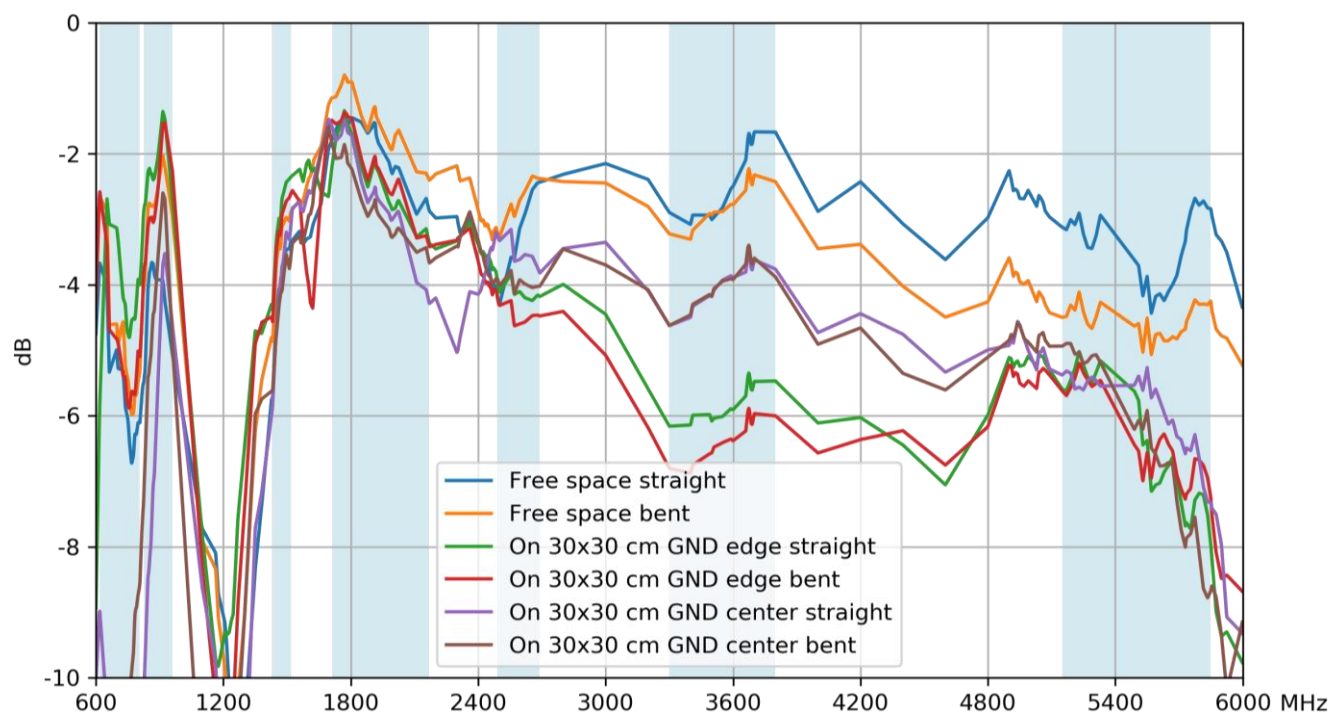
3.1 Return Loss



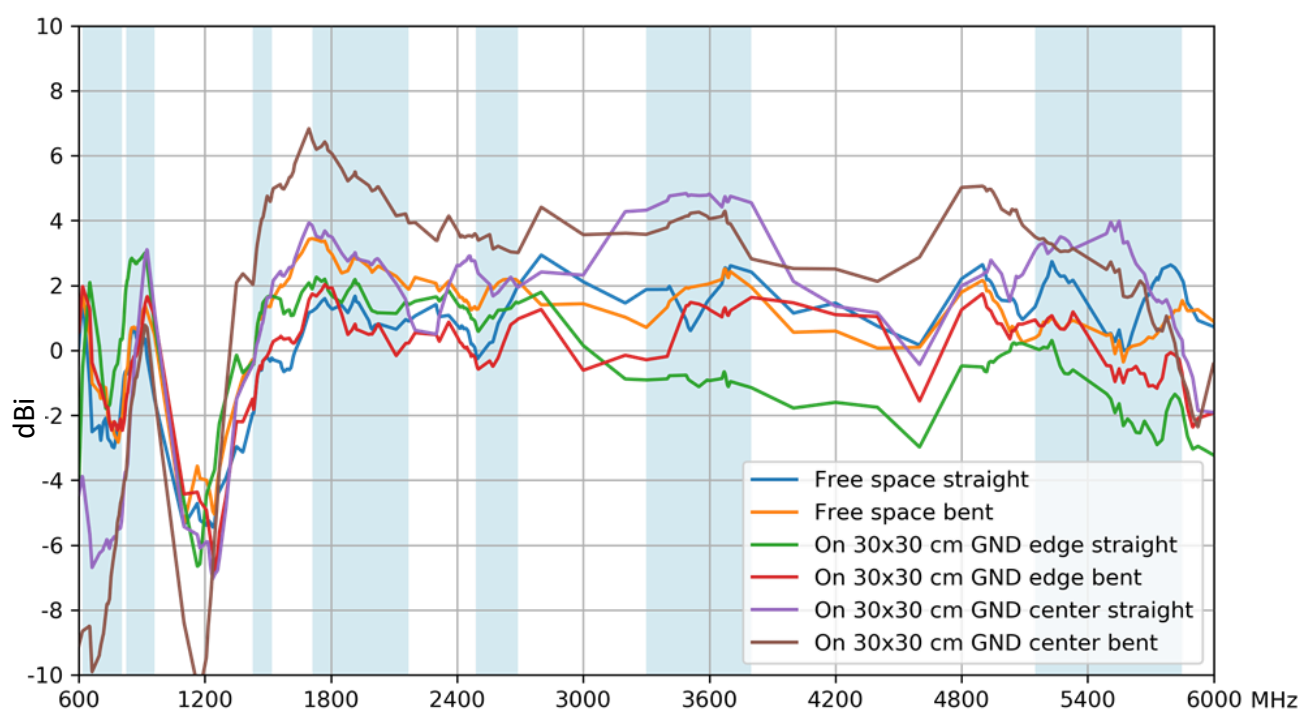
3.2 Efficiency



3.3 Average Gain

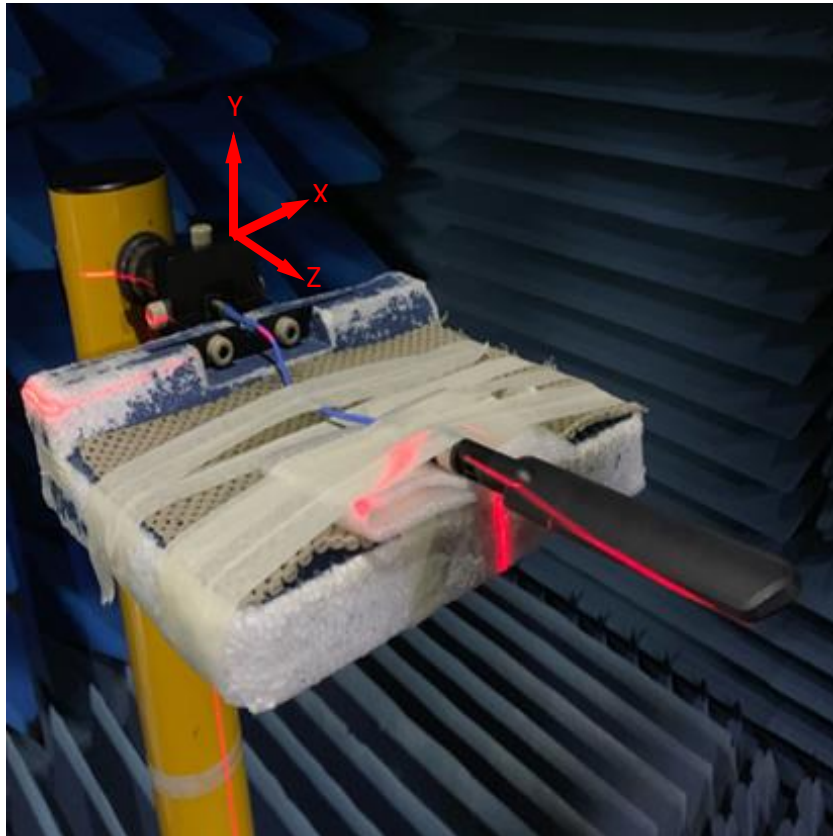


3.4 Peak Gain



4. Radiation Patterns

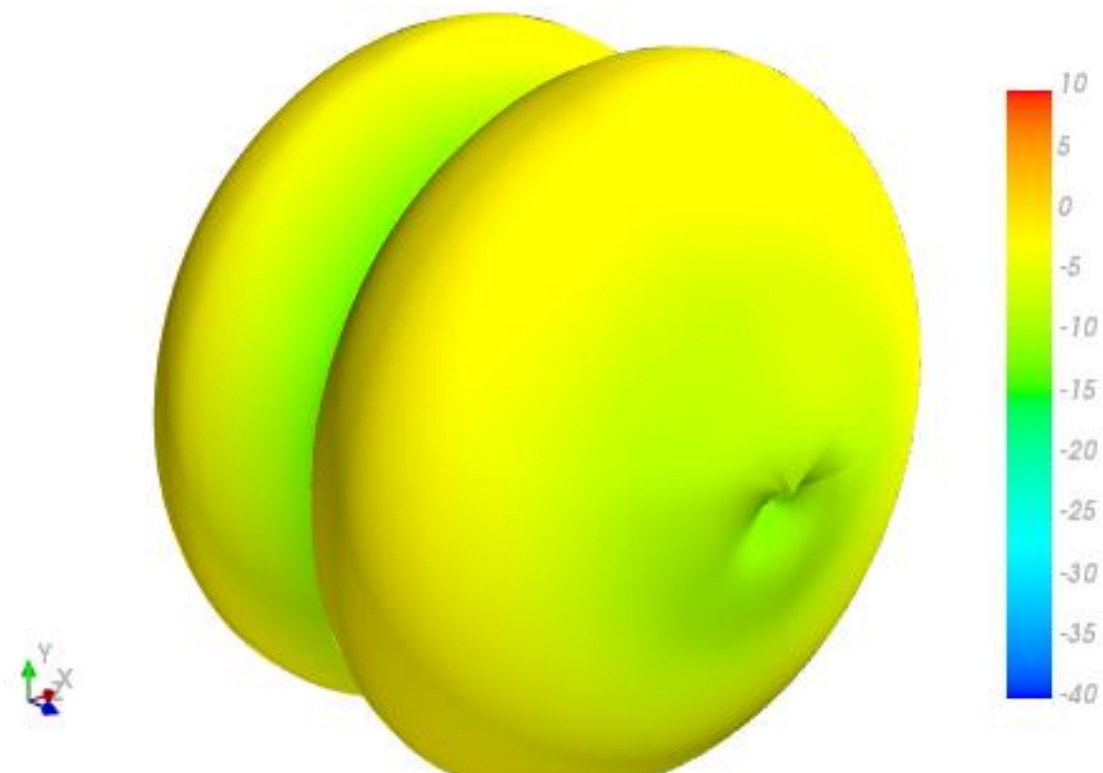
4.1 Test Setup



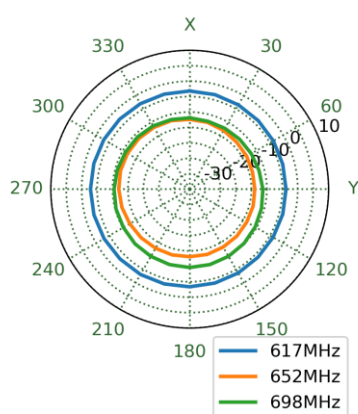
Straight Free Space

4.2 Straight 2D & 3D Radiation Patterns

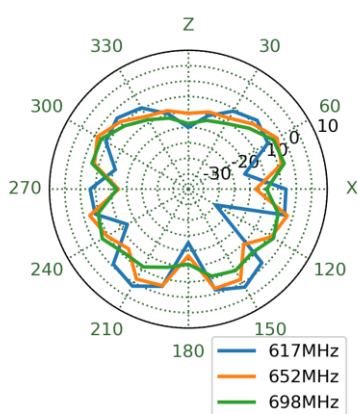
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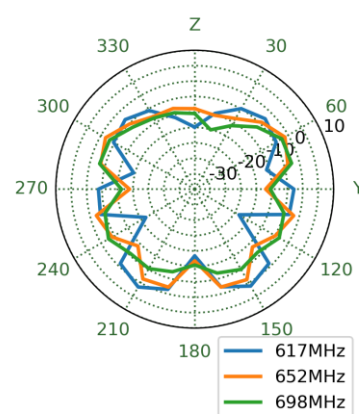
XY Plane



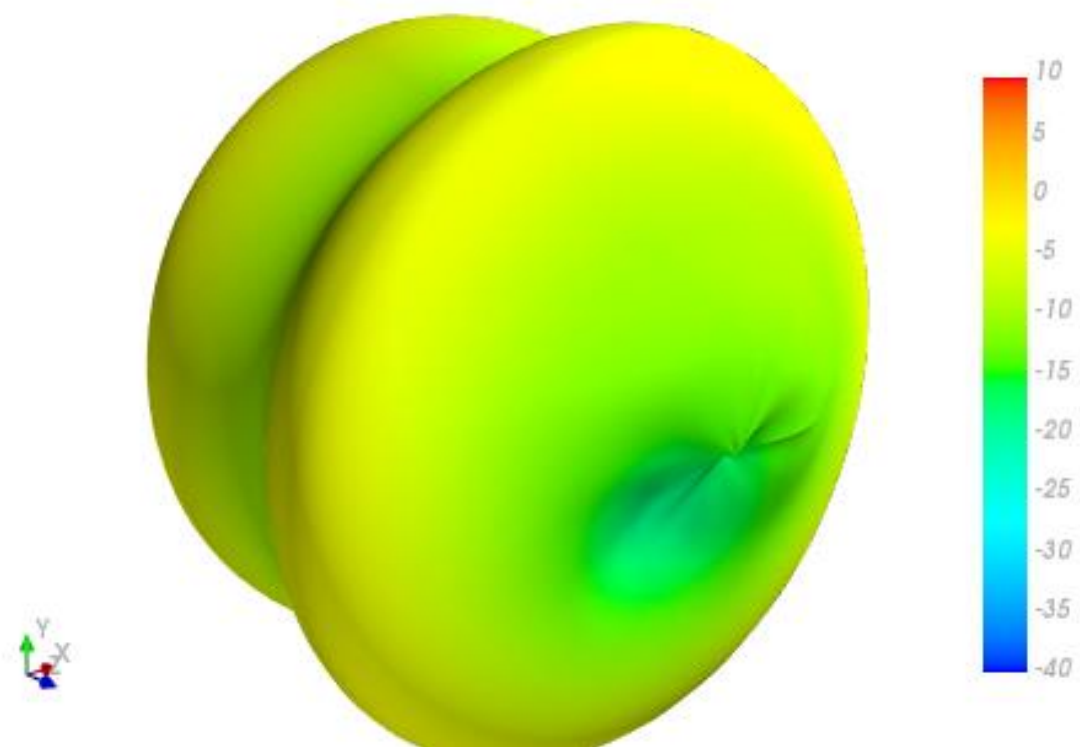
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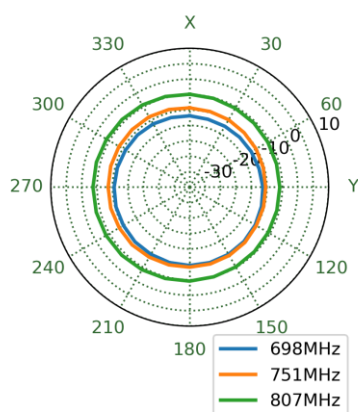
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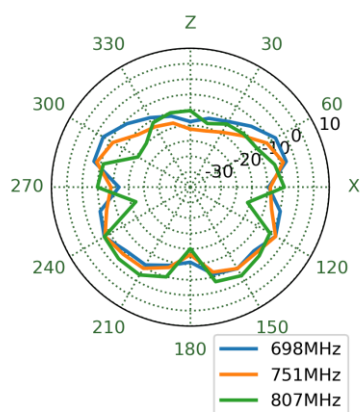
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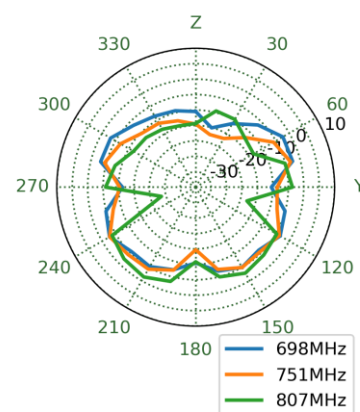
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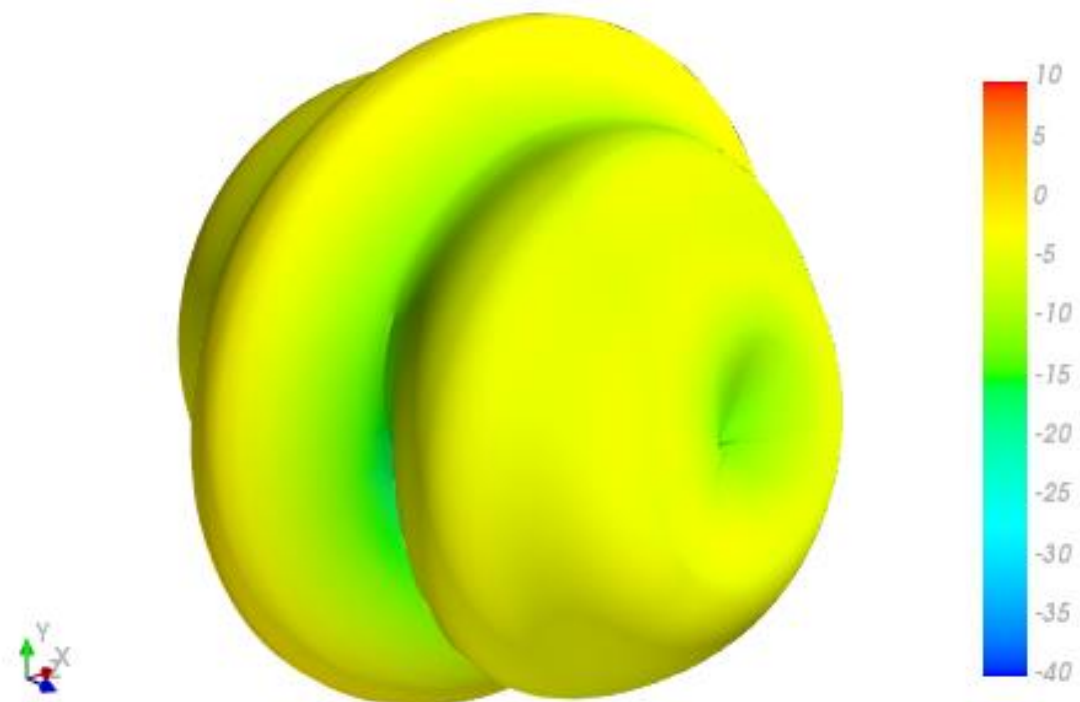
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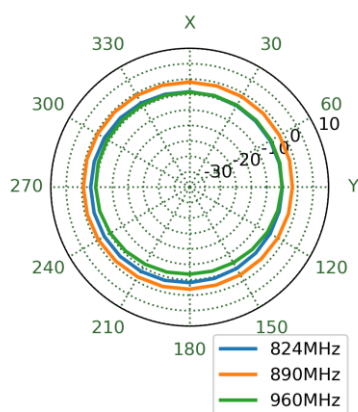
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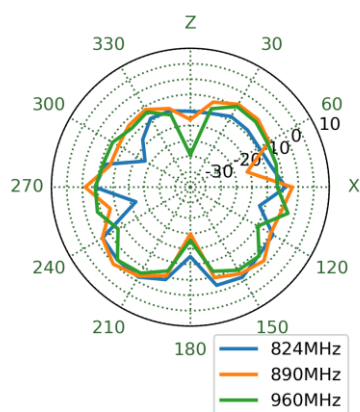
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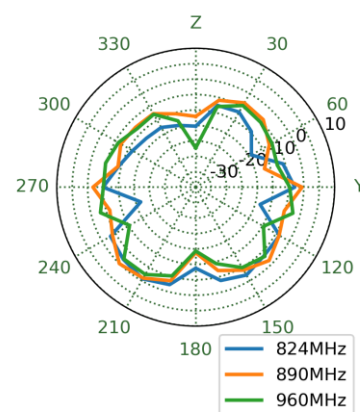
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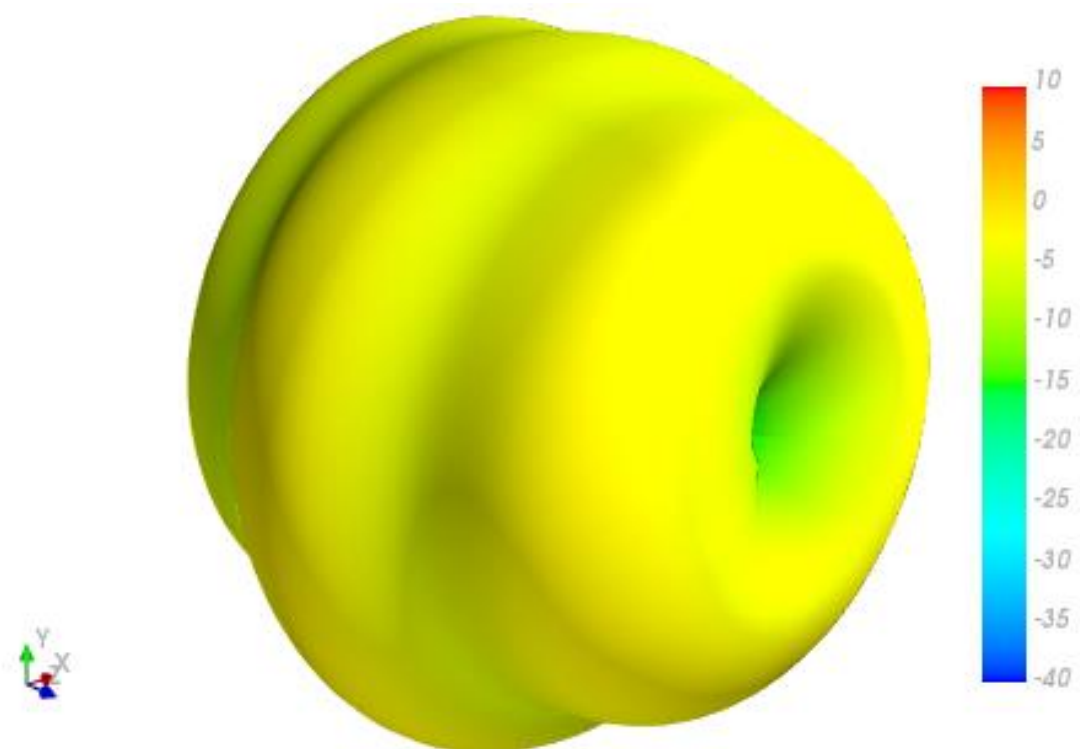
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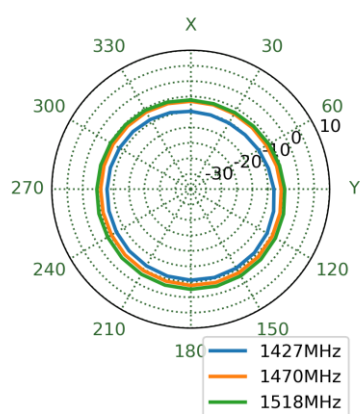
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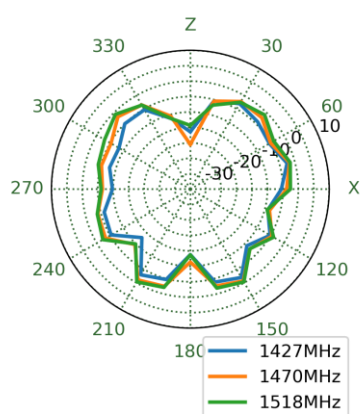
1470MHz



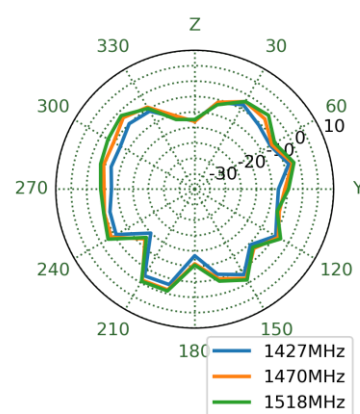
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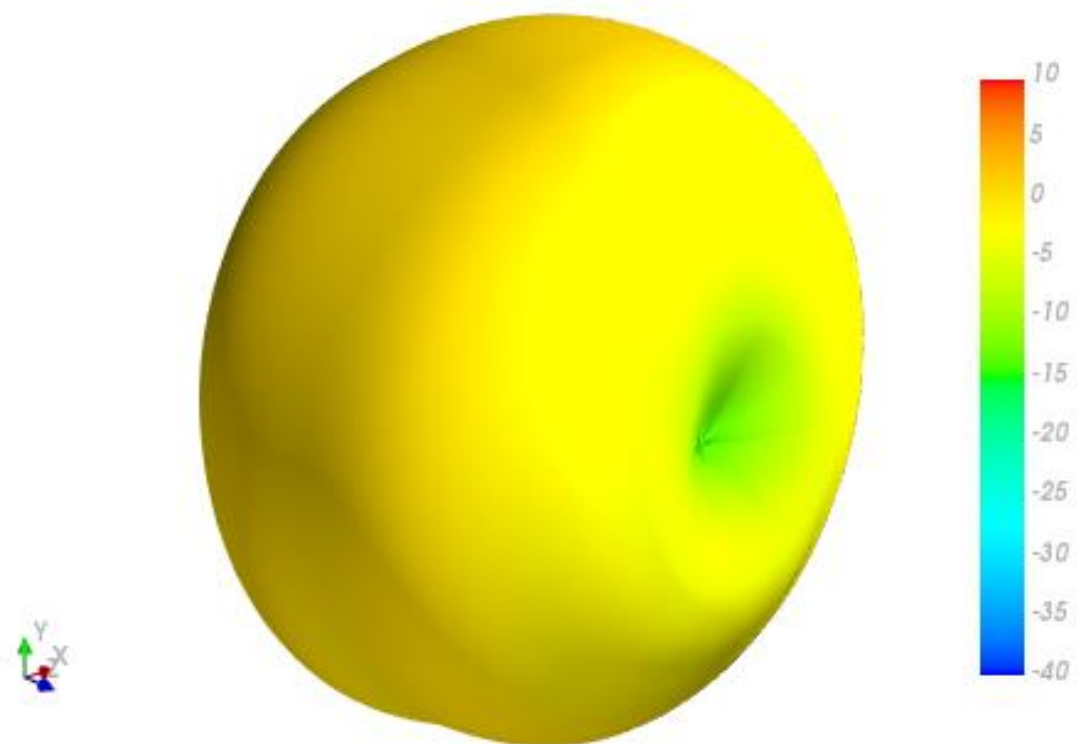
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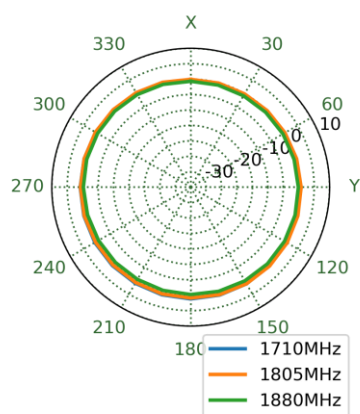
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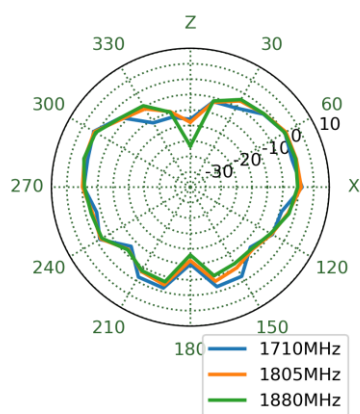
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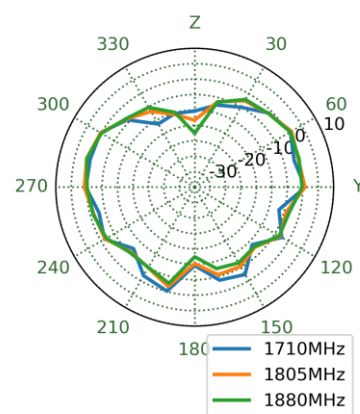
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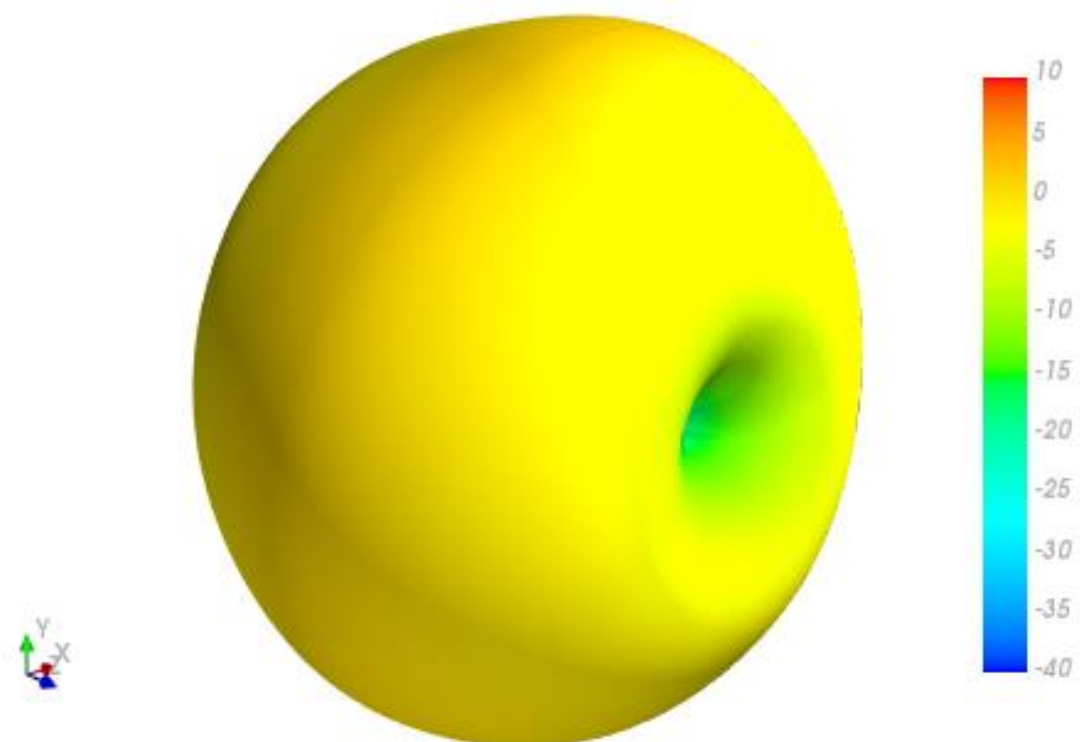
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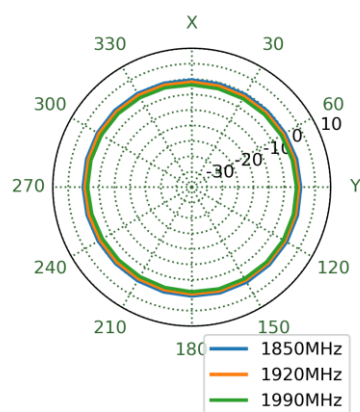
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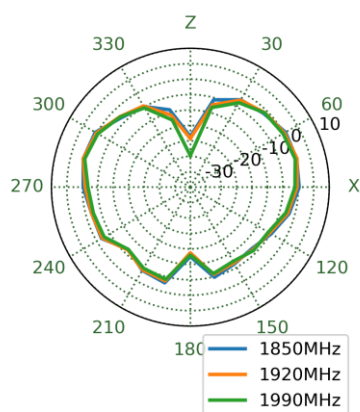
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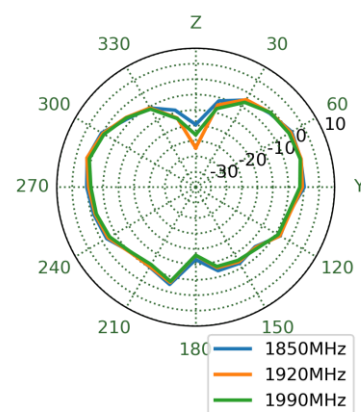
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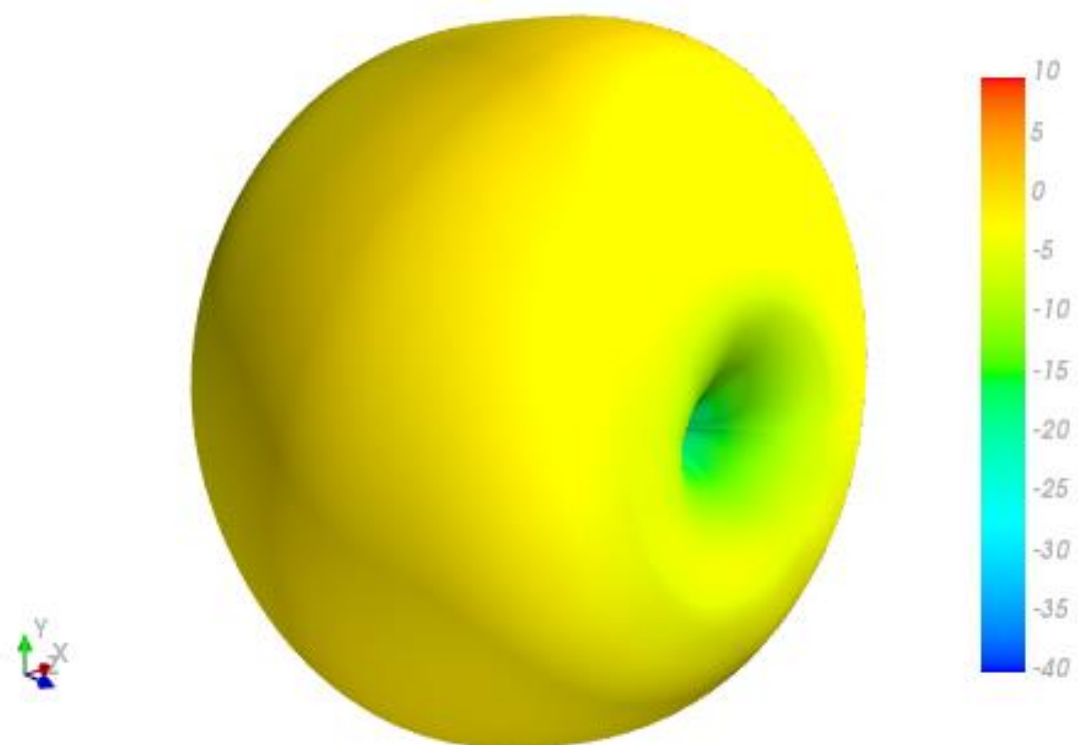
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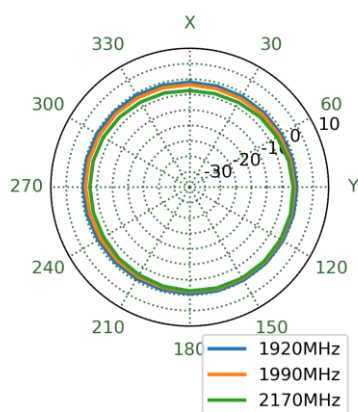
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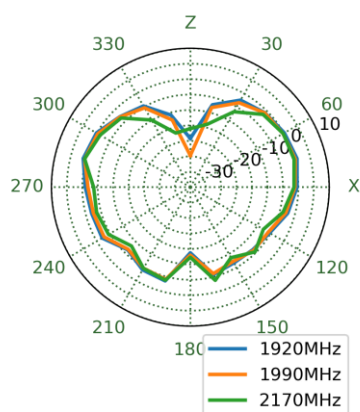
1990MHz



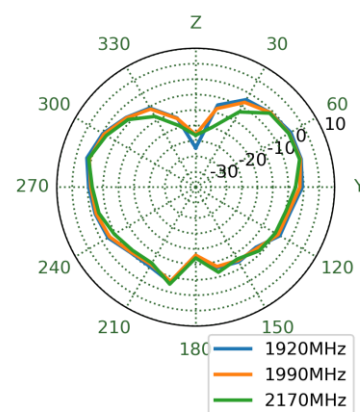
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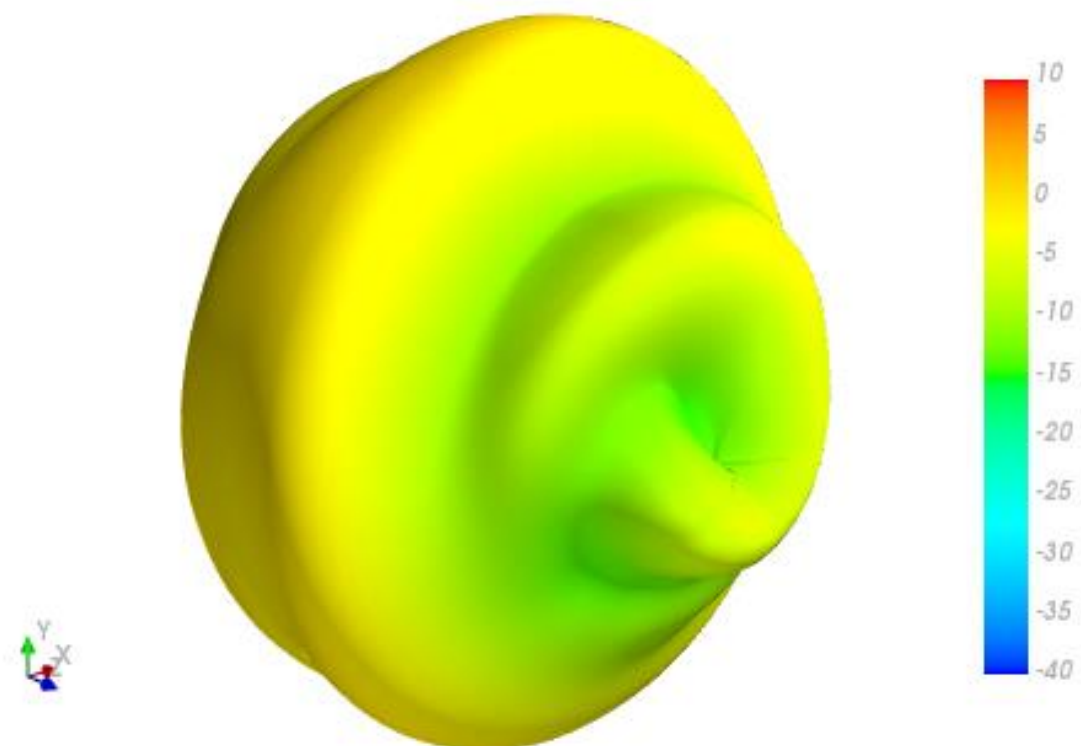
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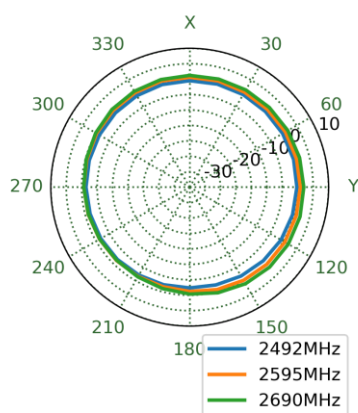
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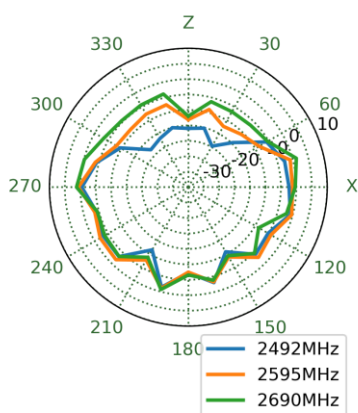
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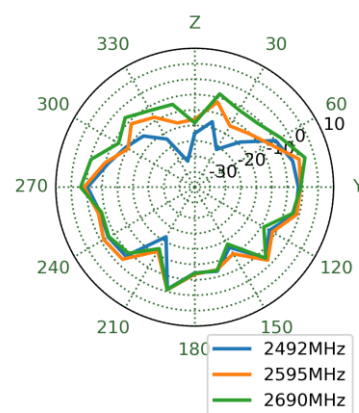
XY Plane



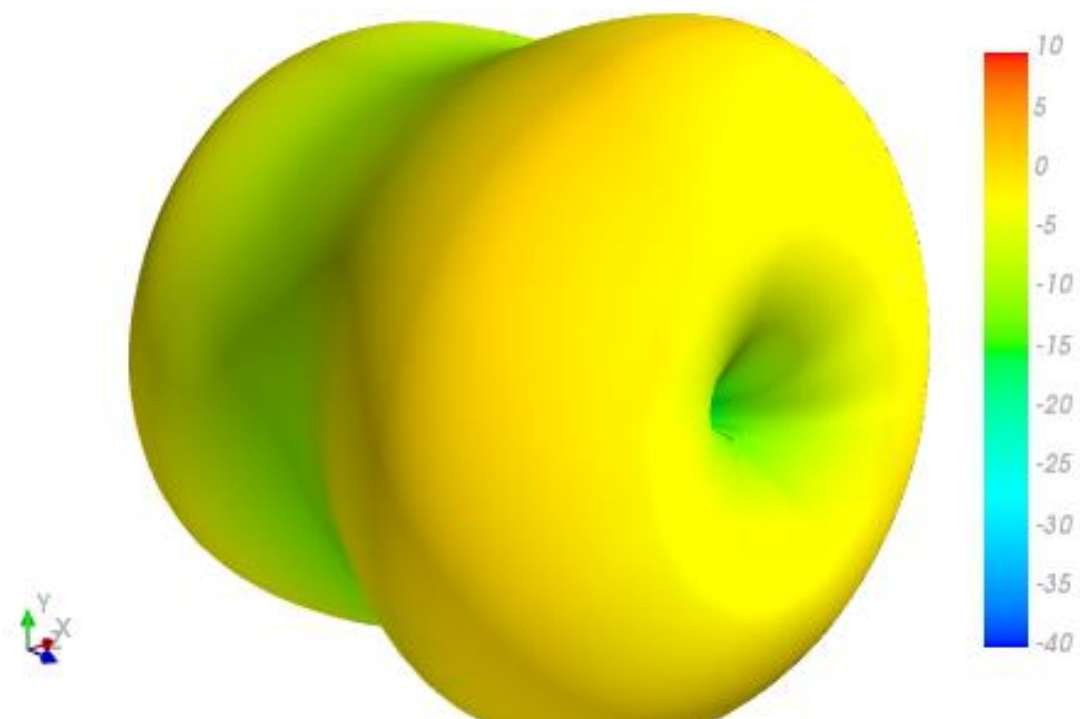
XZ Plane



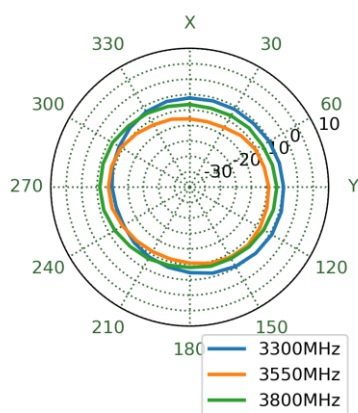
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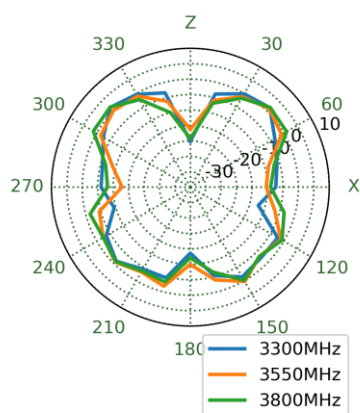
3550MHz



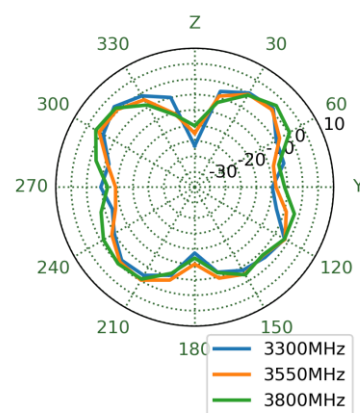
XY Plane



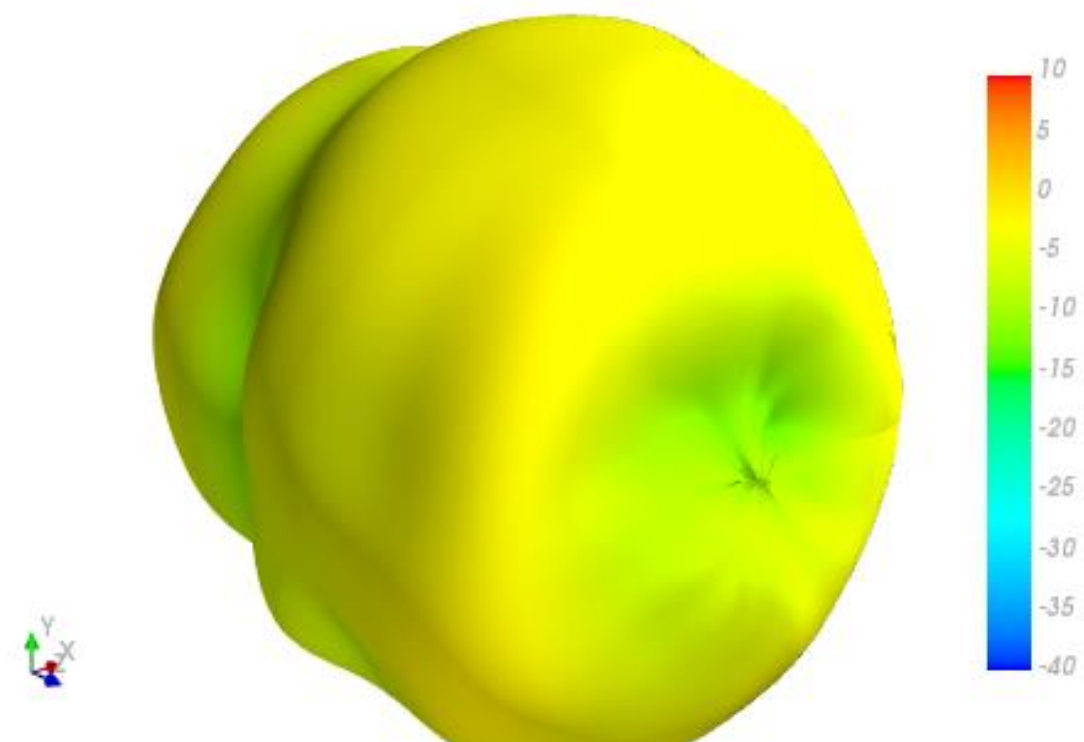
XZ Plane



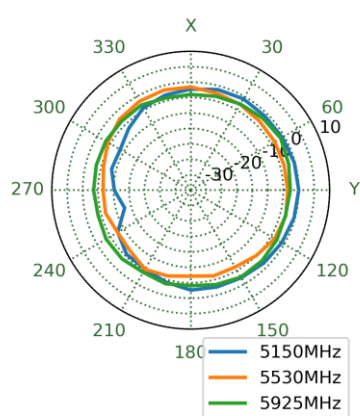
YZ Plane



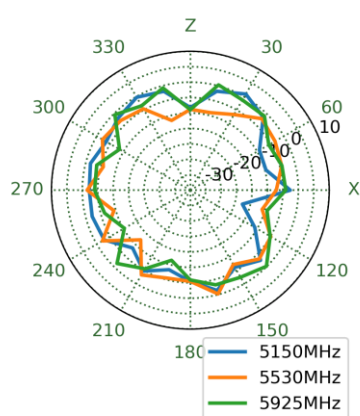
5530MHz



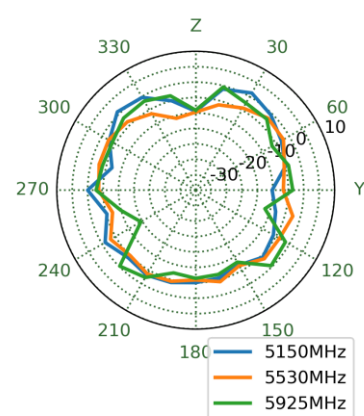
XY Plane



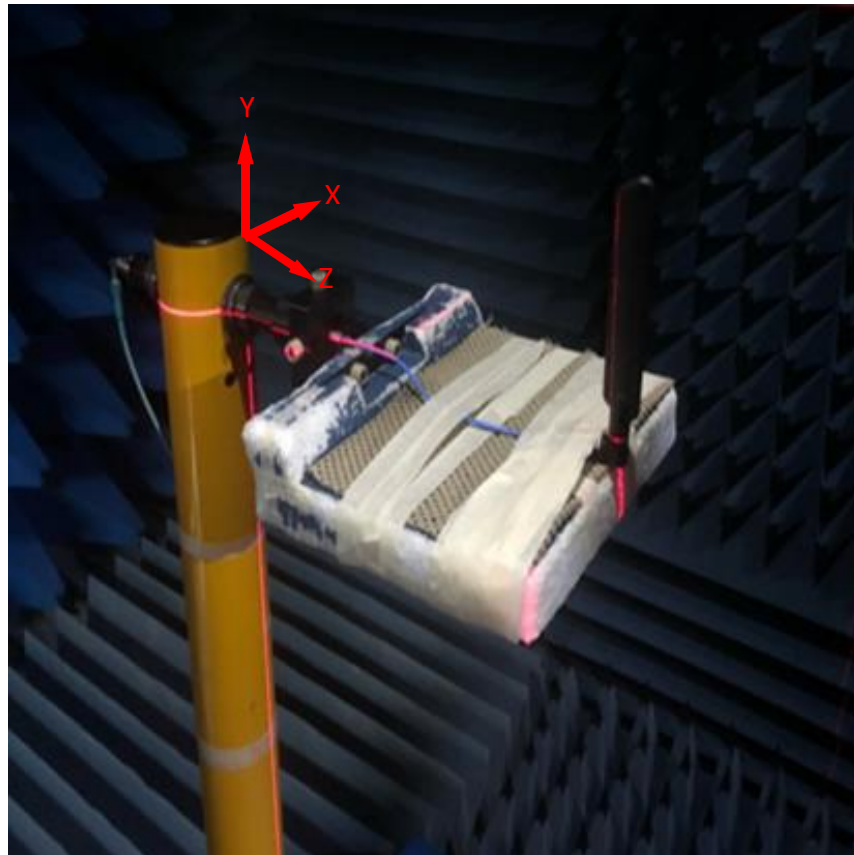
XZ Plane



YZ Plane



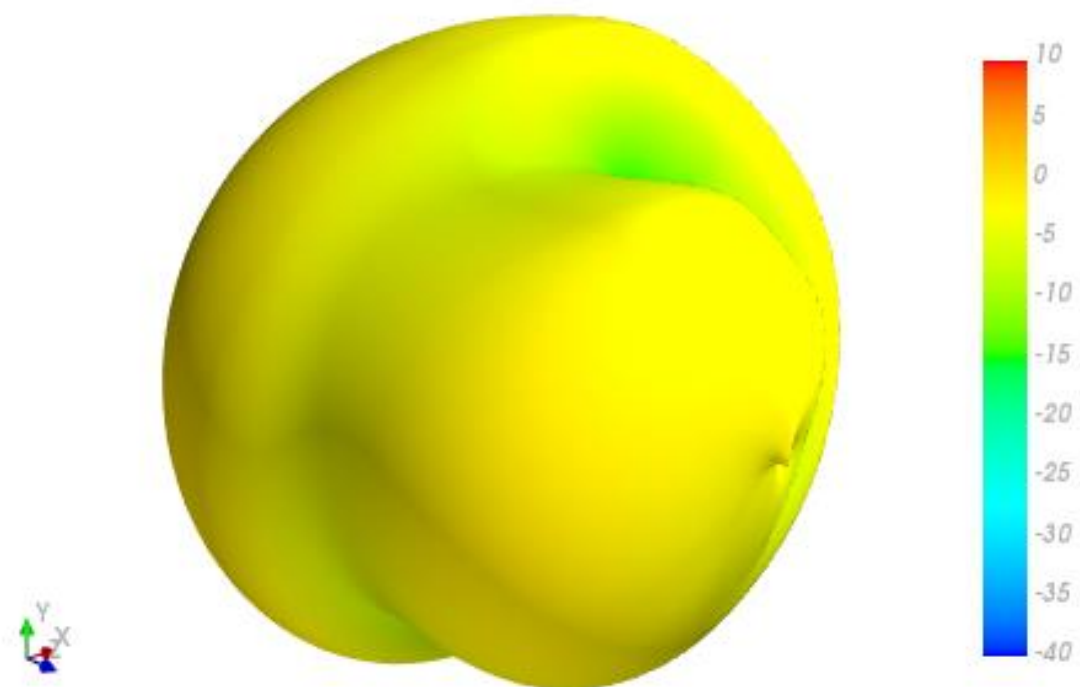
4.3 Test Setup



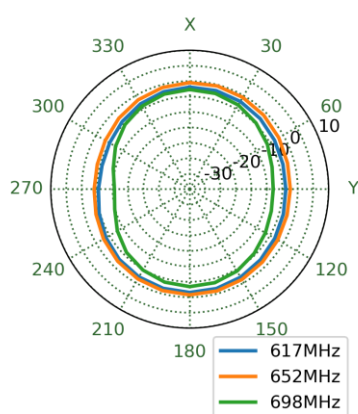
Bent Free Space

4.4 Bent Free Space 2D & 3D Radiation Patterns

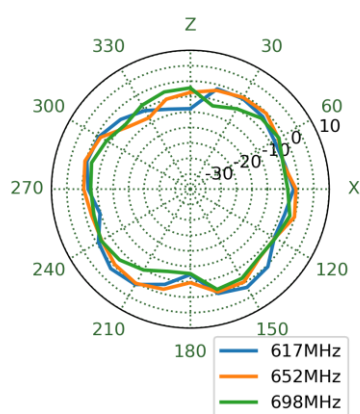
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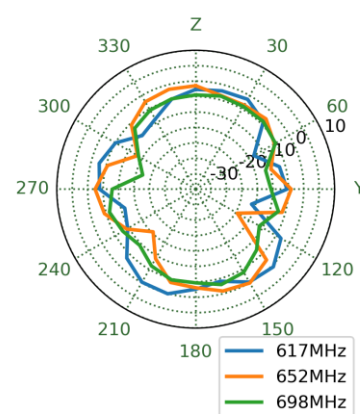
XY Plane



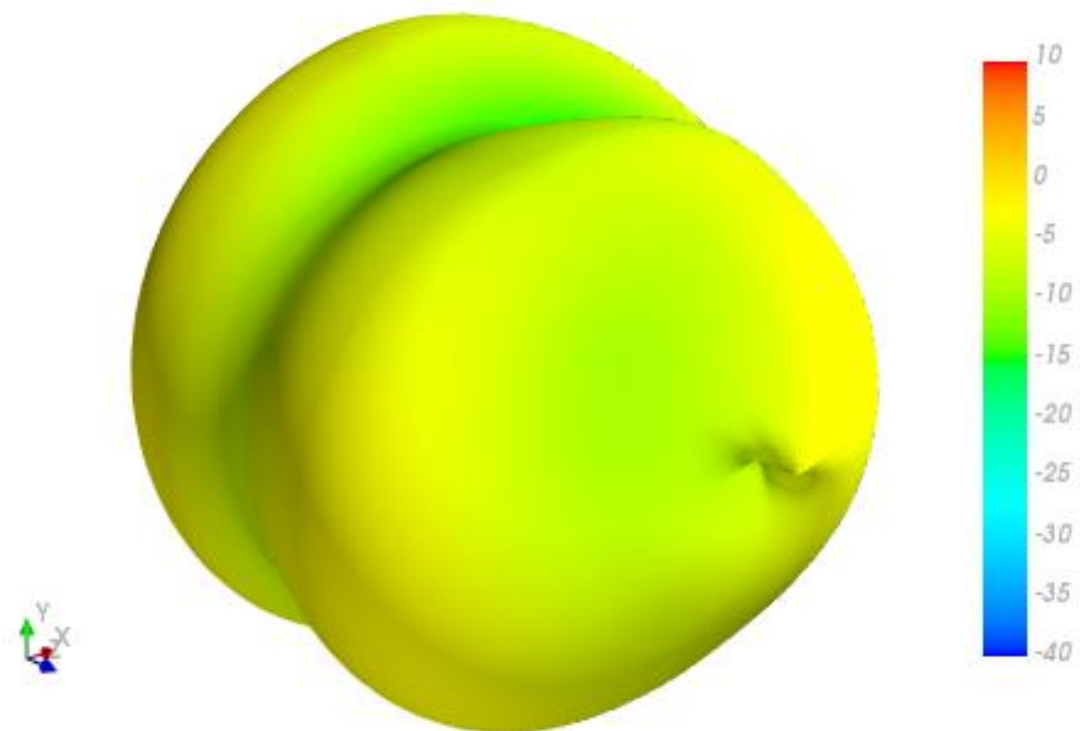
XZ Plane



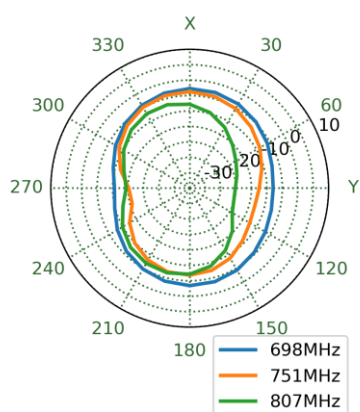
YZ Plane



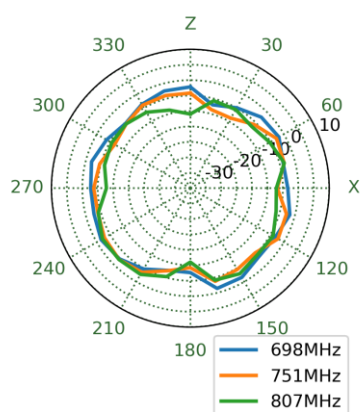
751MHz



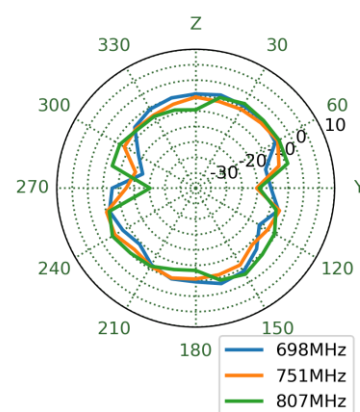
XY Plane



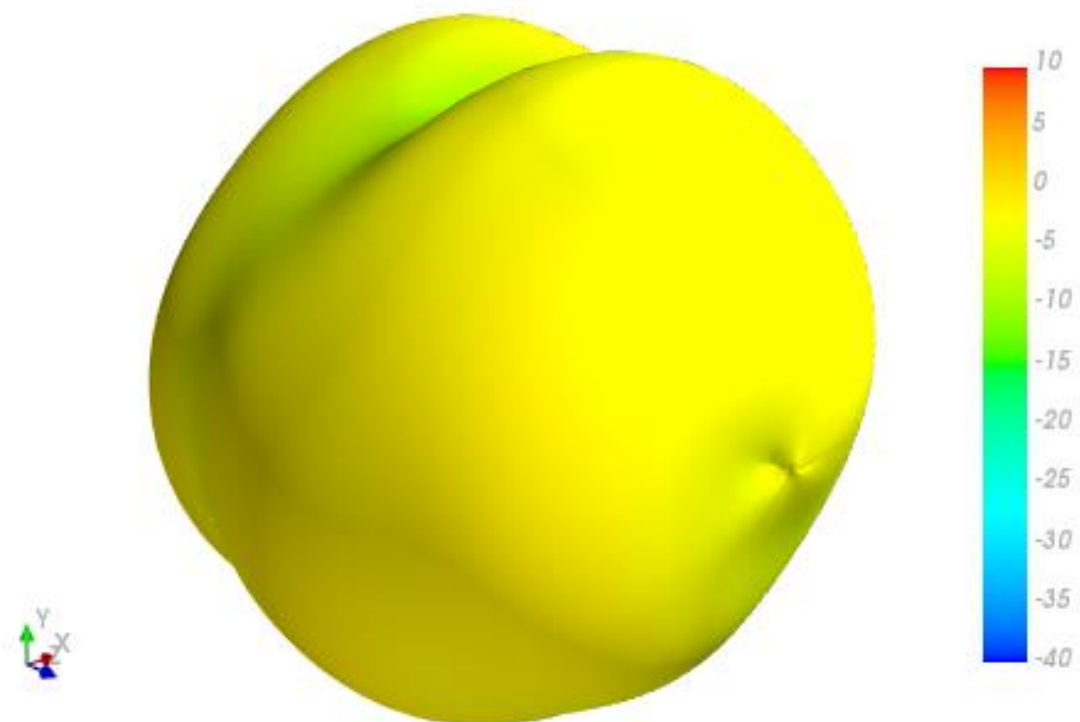
XZ Plane



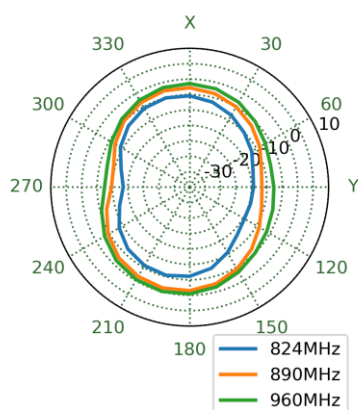
YZ Plane



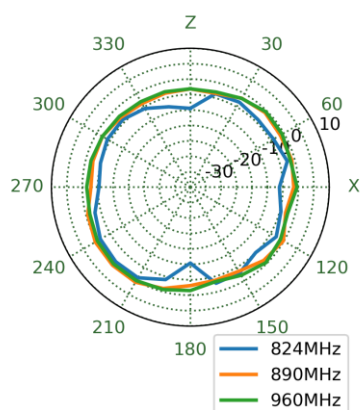
890MHz



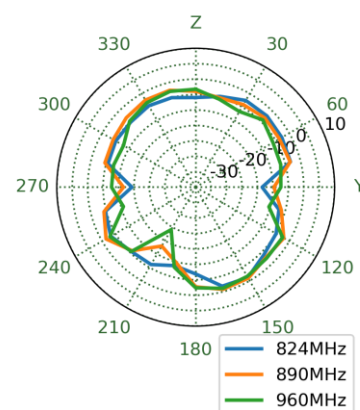
XY Plane



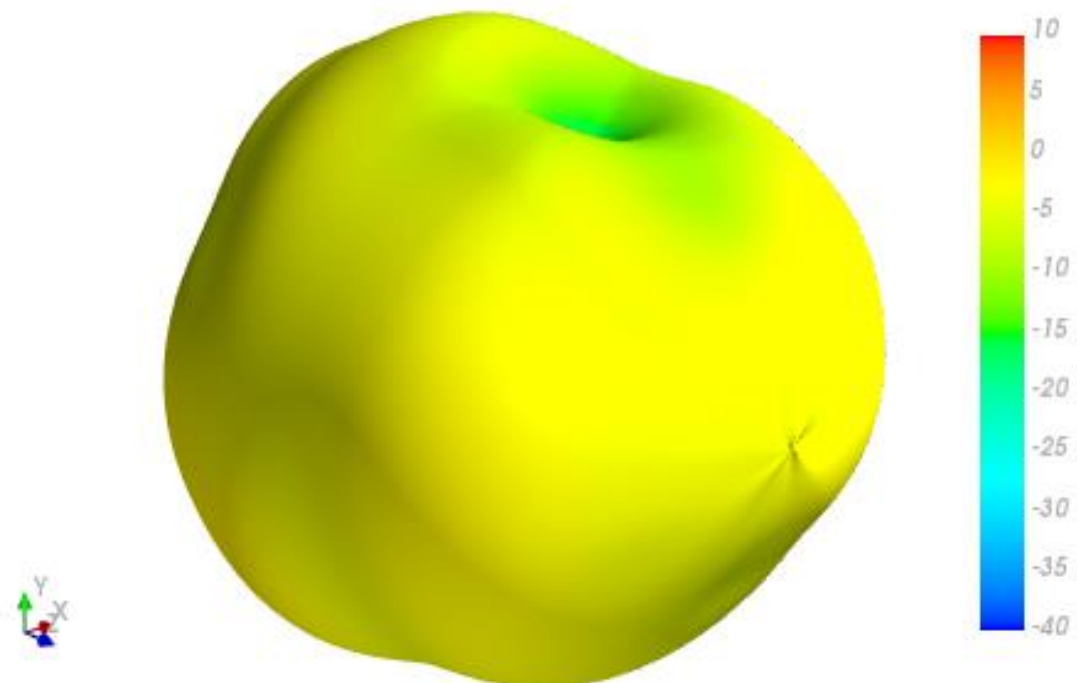
XZ Plane



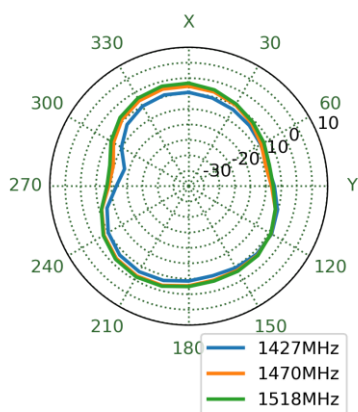
YZ Plane



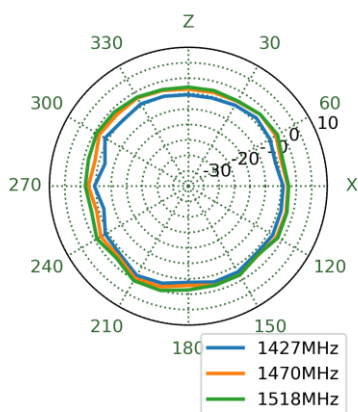
1470MHz



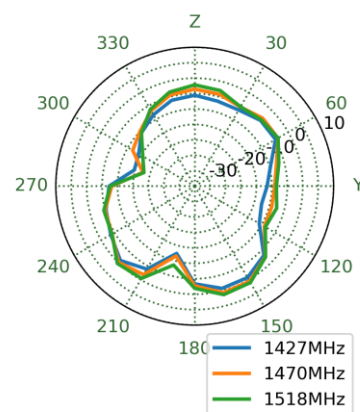
XY Plane



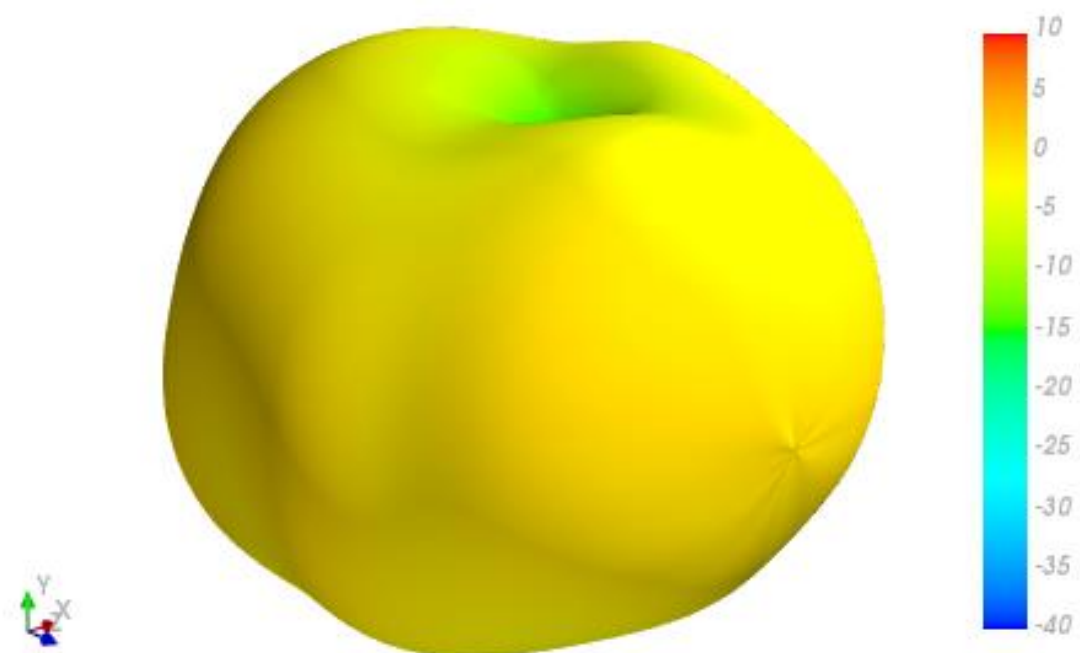
XZ Plane



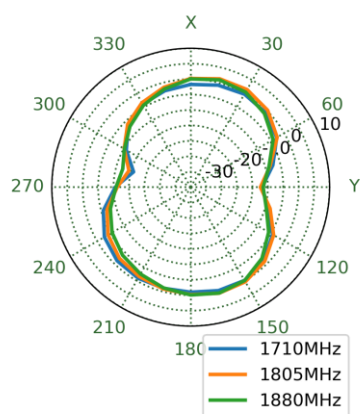
YZ Plane



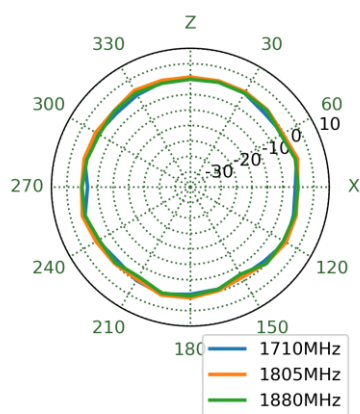
1805MHz



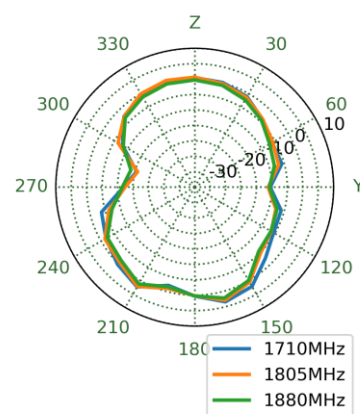
XY Plane



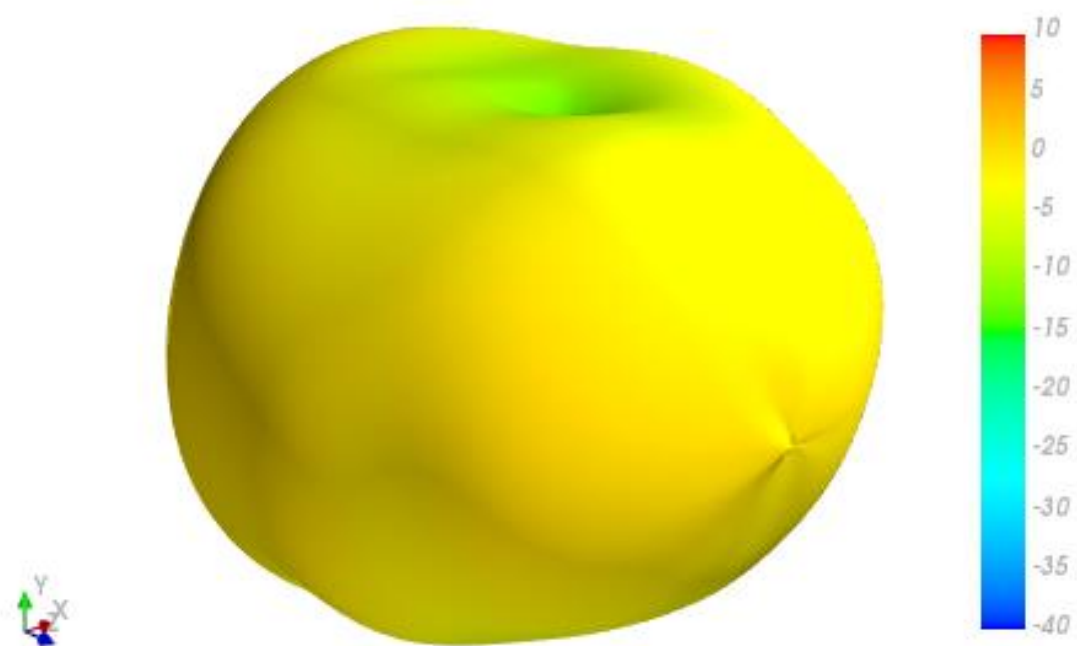
XZ Plane



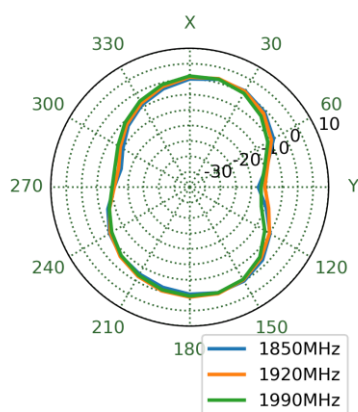
YZ Plane



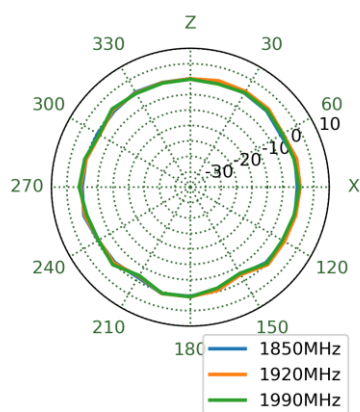
1920MHz



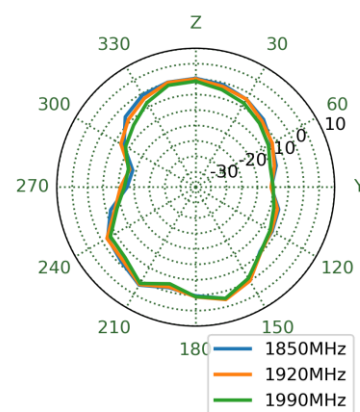
XY Plane



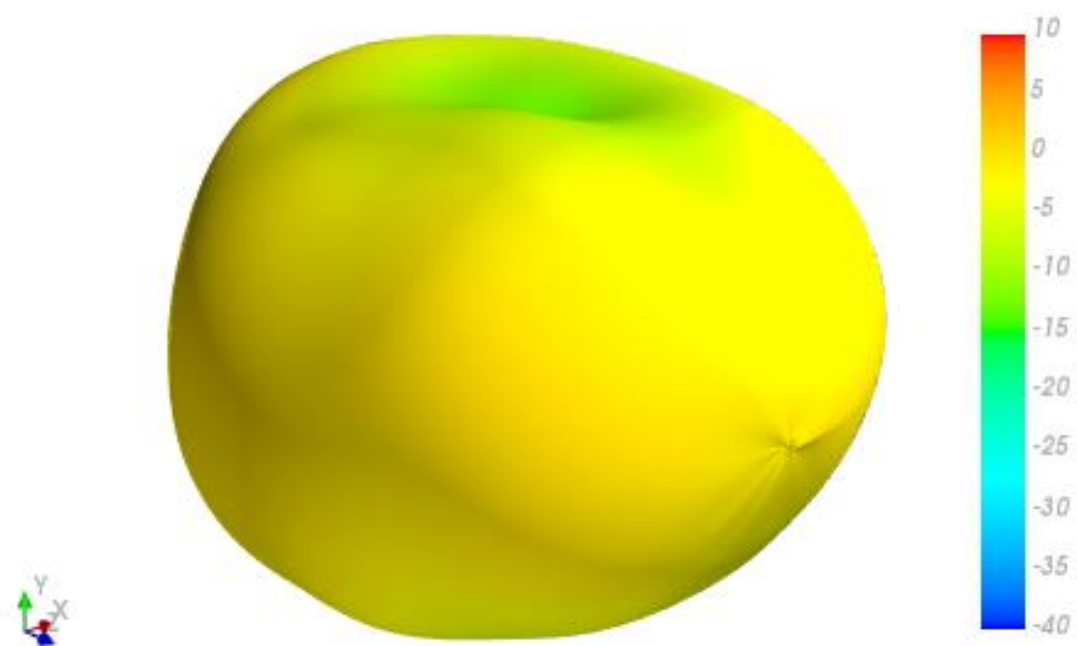
XZ Plane



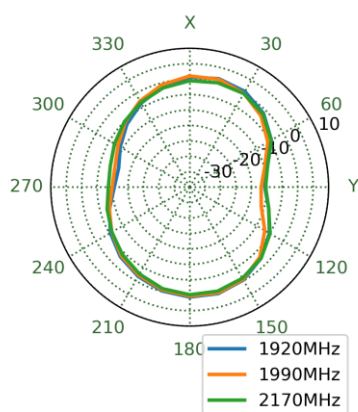
YZ Plane



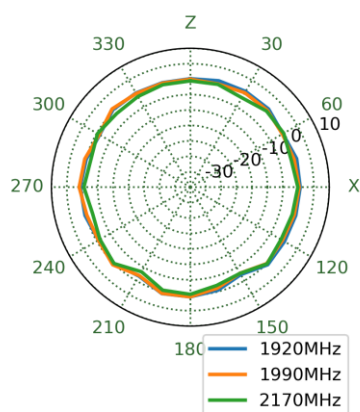
1990MHz



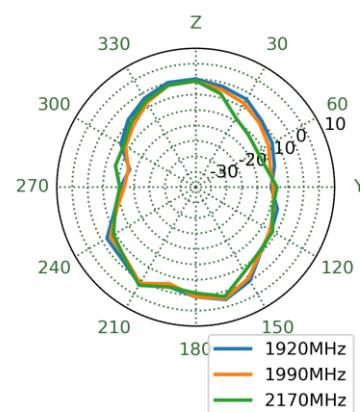
XY Plane



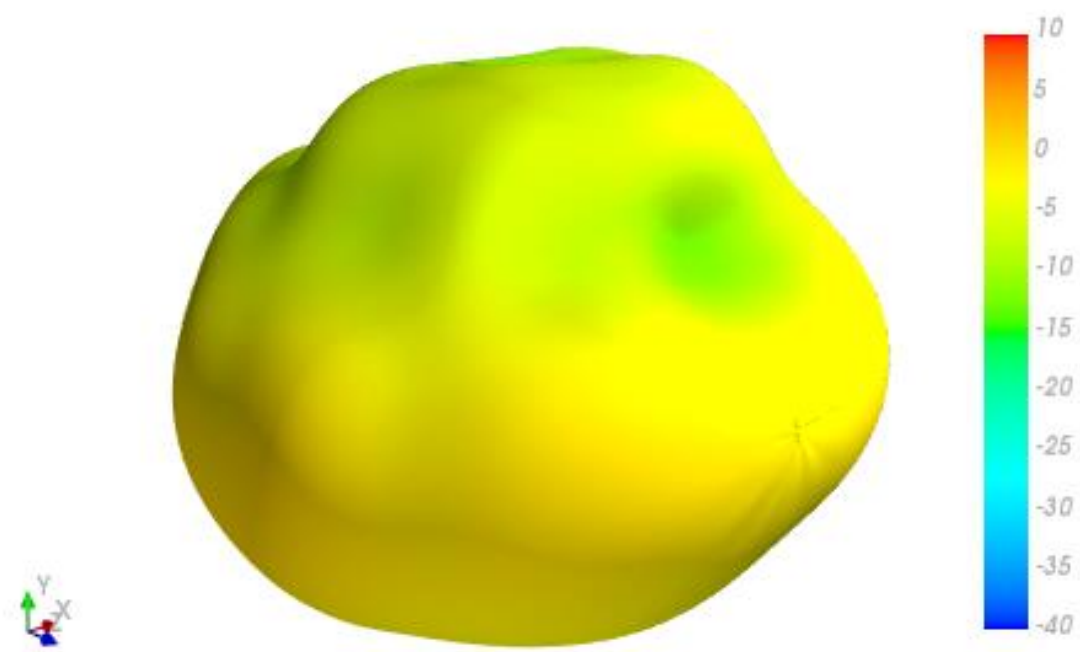
XZ Plane



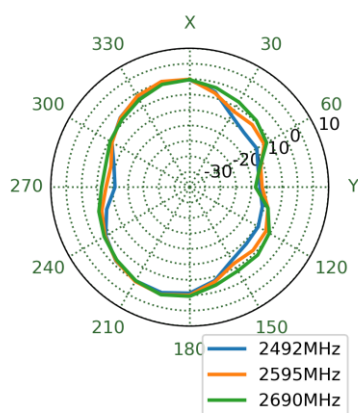
YZ Plane



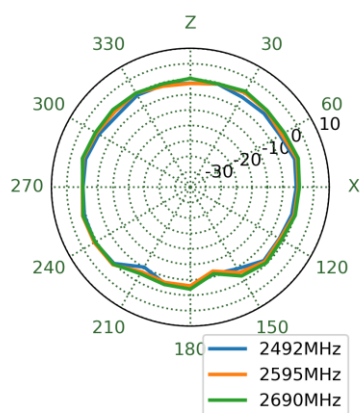
2595MHz



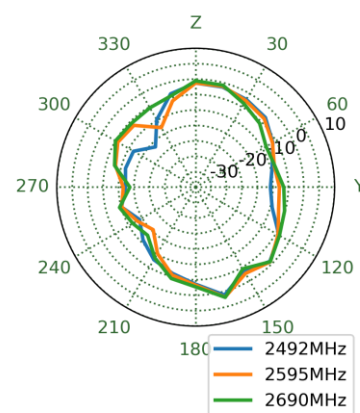
XY Plane



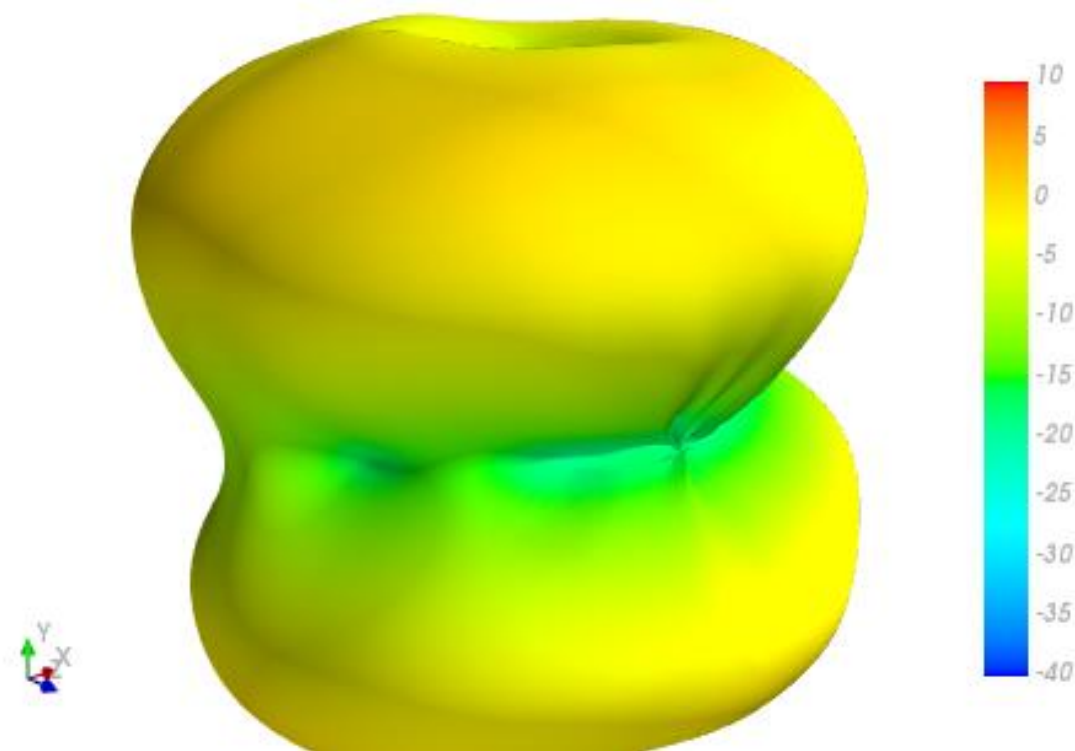
XZ Plane



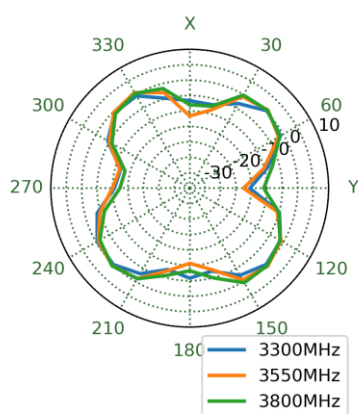
YZ Plane



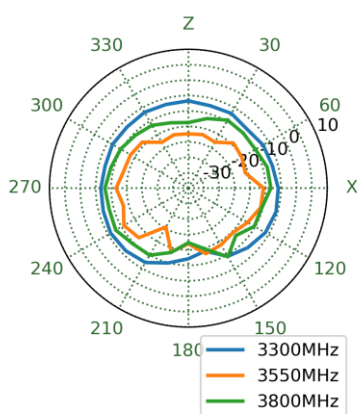
3550MHz



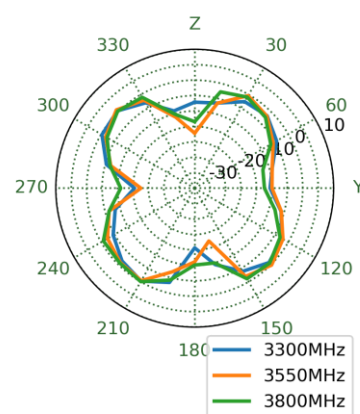
XY Plane



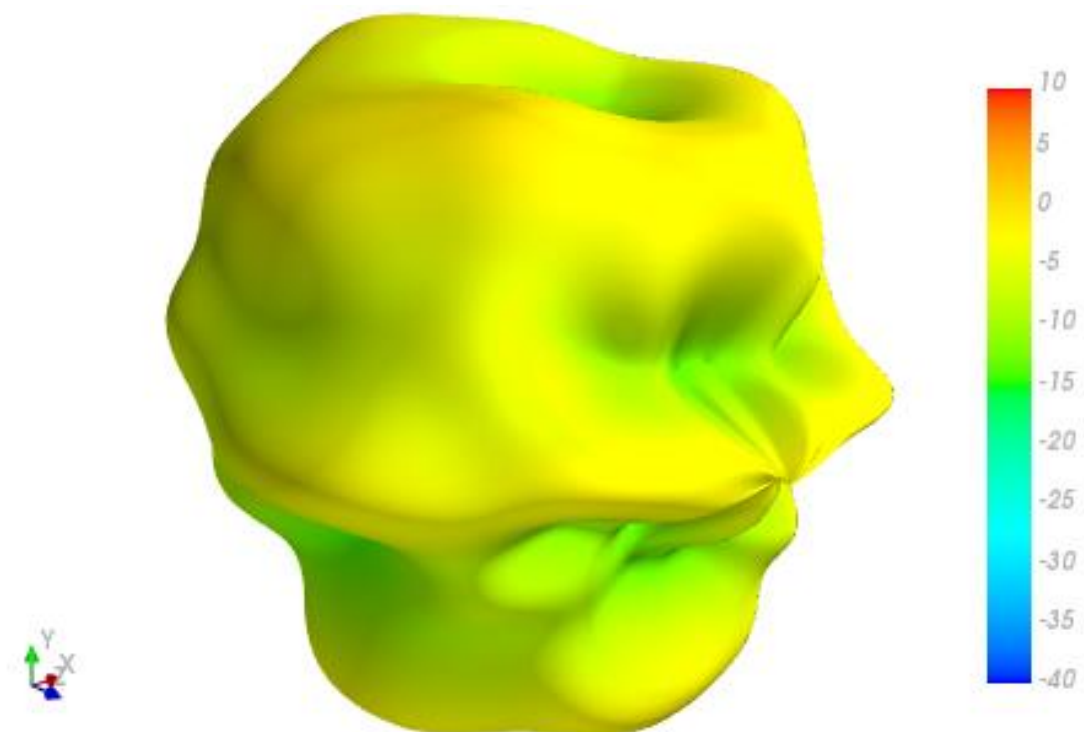
XZ Plane



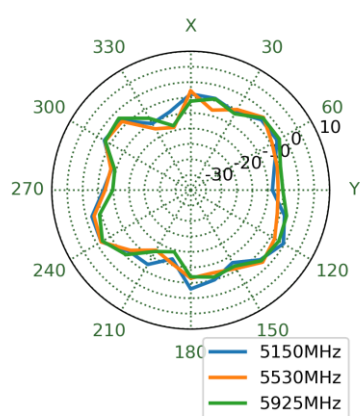
YZ Plane



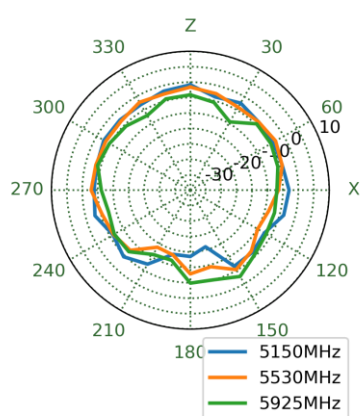
5530MHz



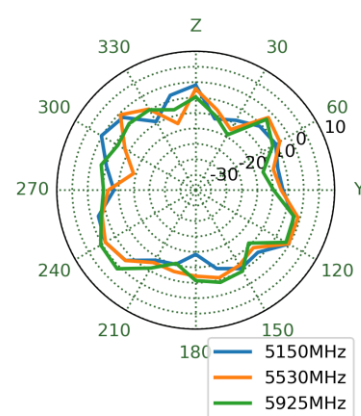
XY Plane



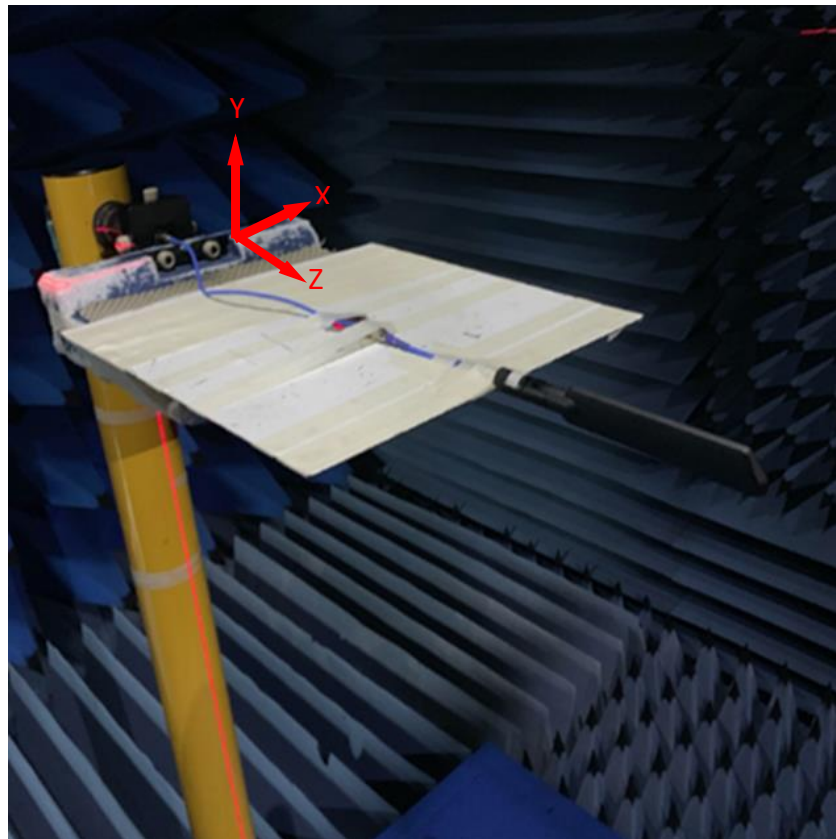
XZ Plane



YZ Plane



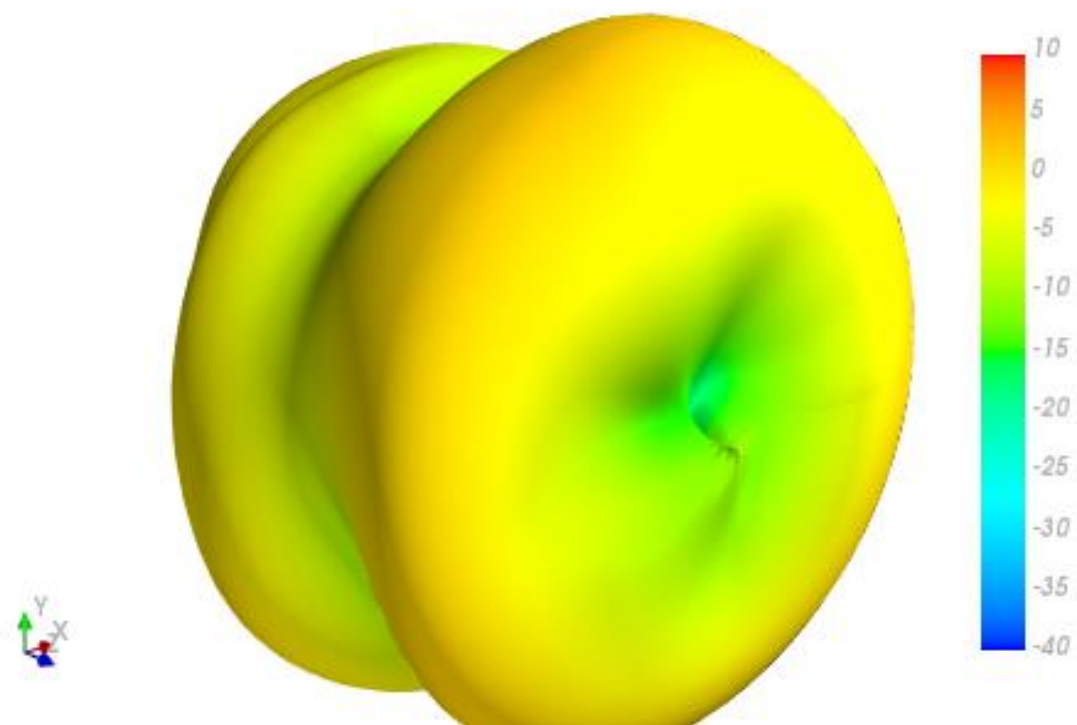
4.5 Test Setup



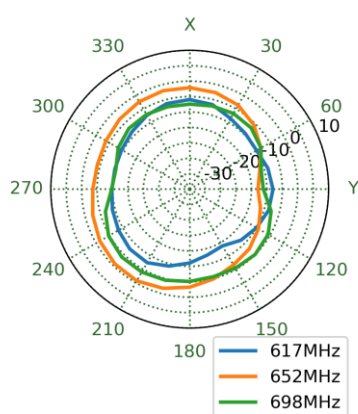
Straight 30x30cm Ground Plane Edge

4.6 Straight 30x30cm Ground Plane Edge 2D & 3D Radiation Patterns

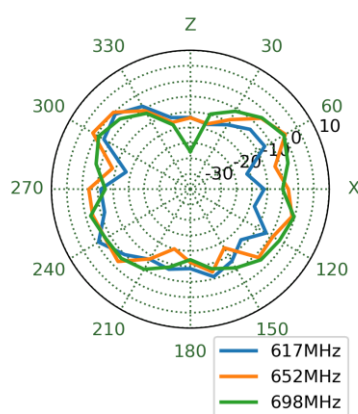
652MHz



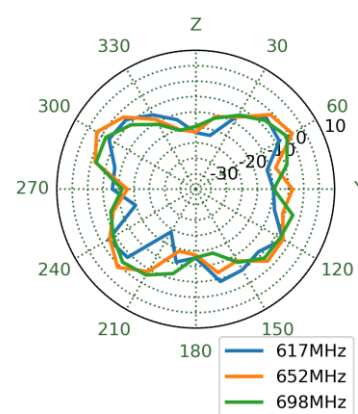
XY Plane



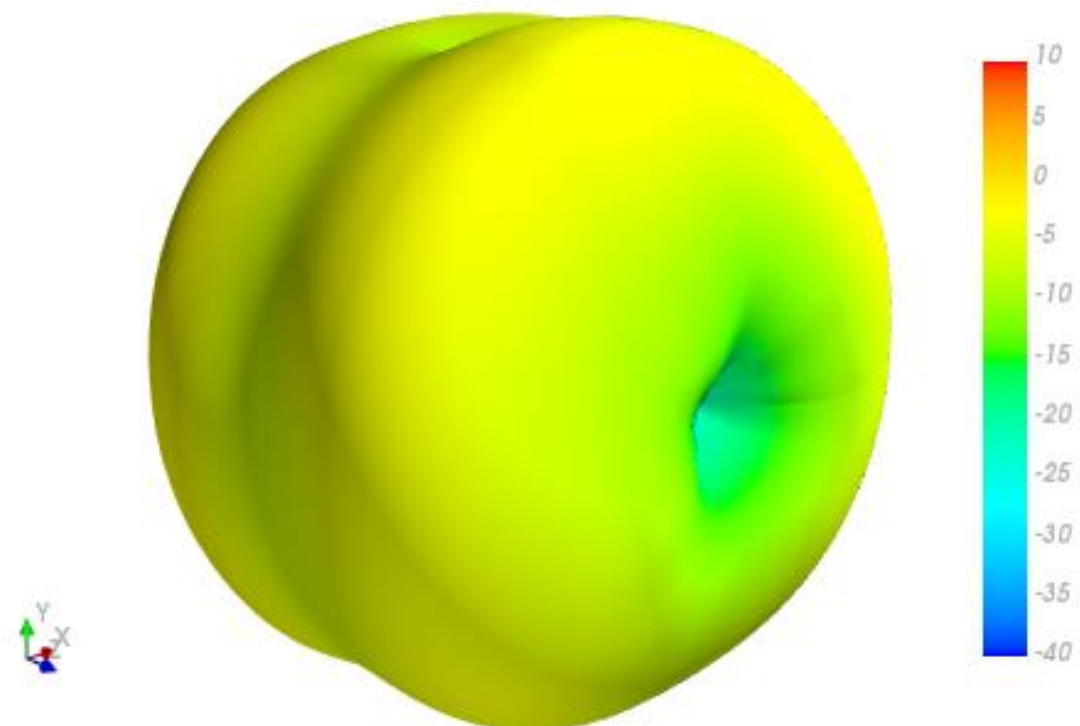
XZ Plane



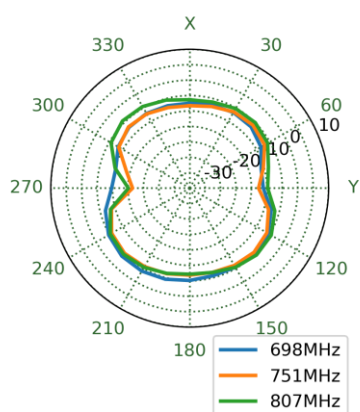
YZ Plane



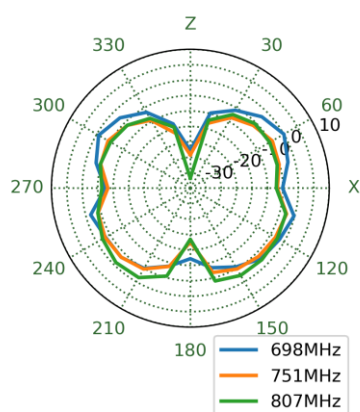
751MHz



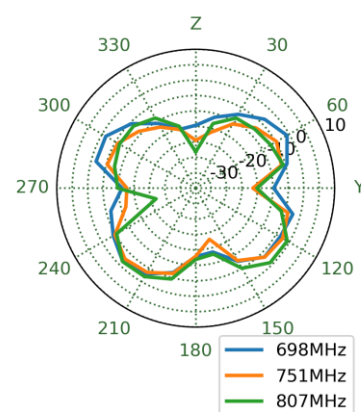
XY Plane



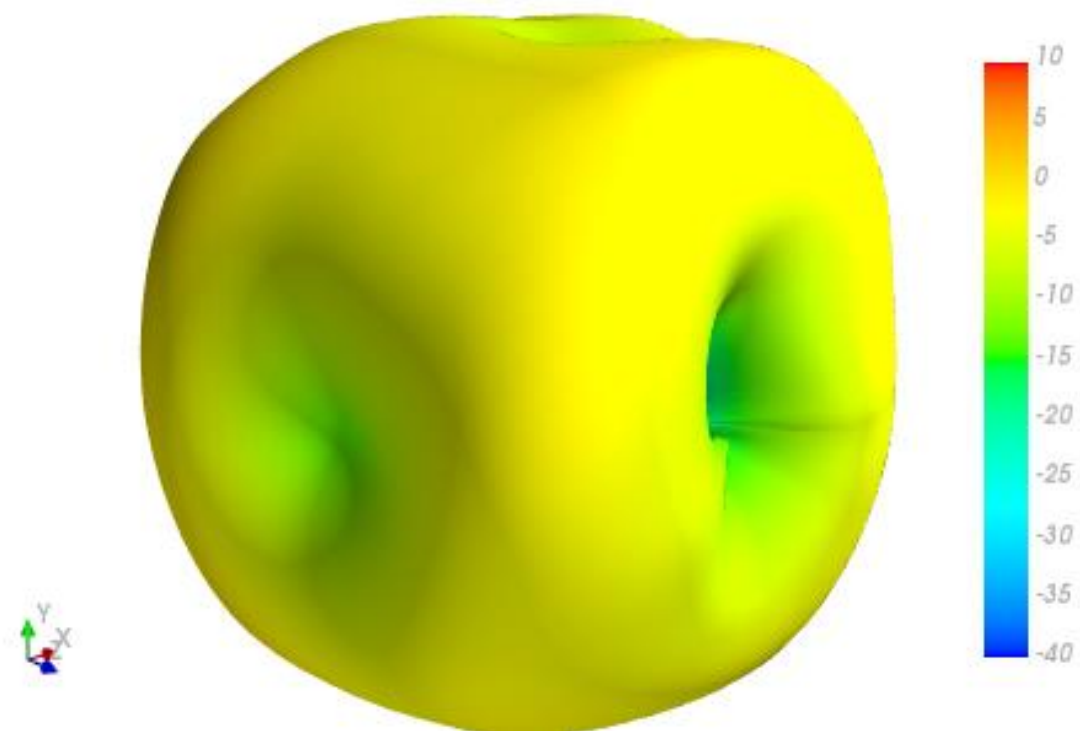
XZ Plane



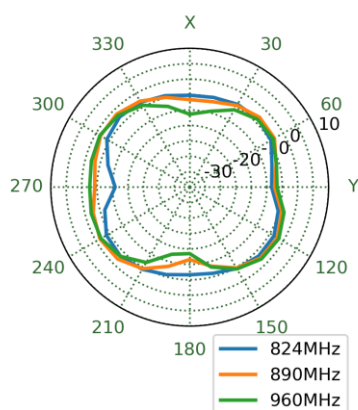
YZ Plane



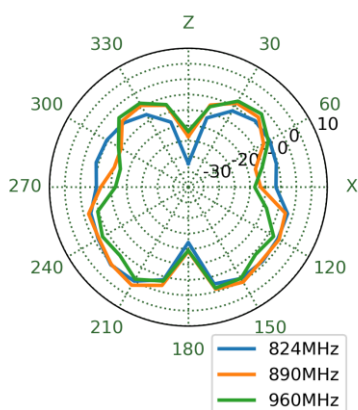
890MHz



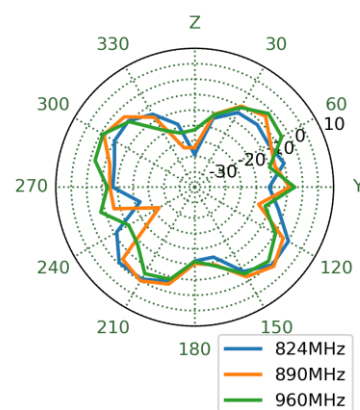
XY Plane



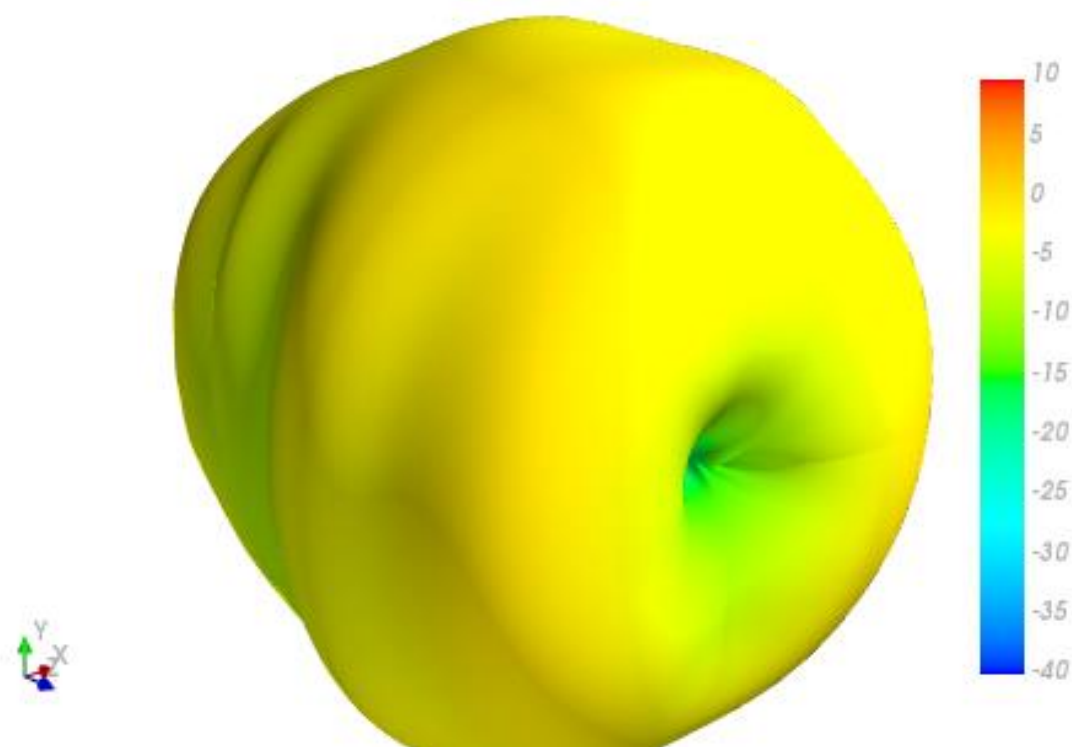
XZ Plane



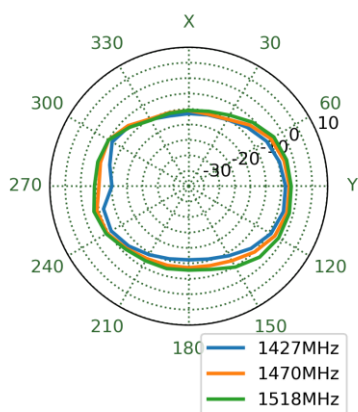
YZ Plane



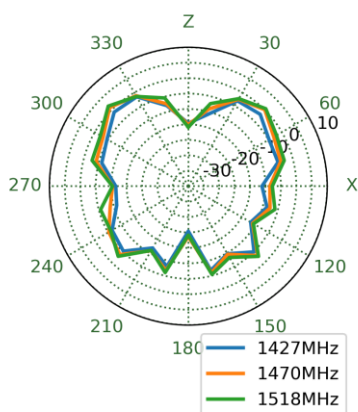
1470MHz



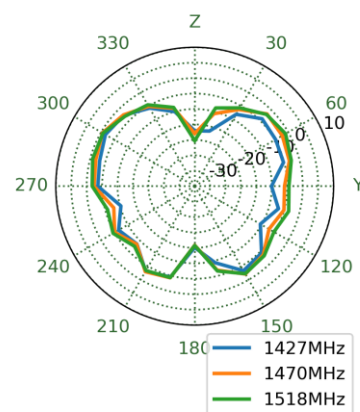
XY Plane



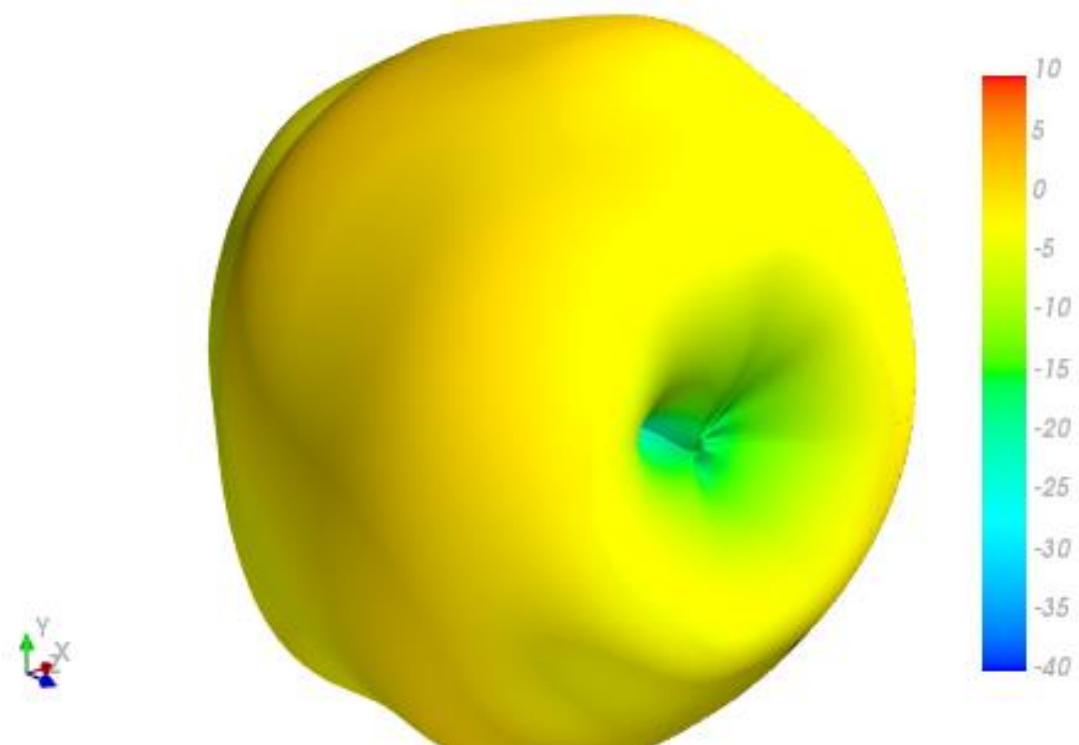
XZ Plane



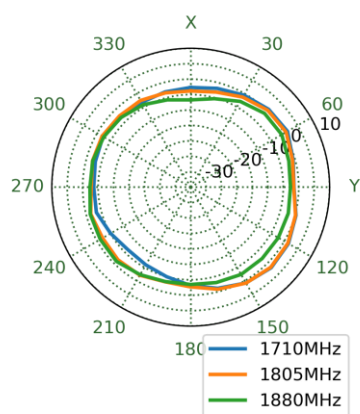
YZ Plane



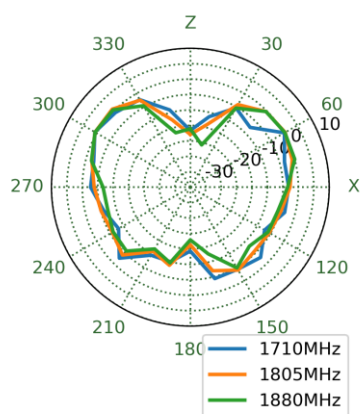
1805MHz



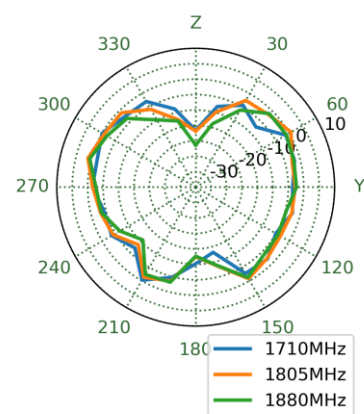
XY Plane



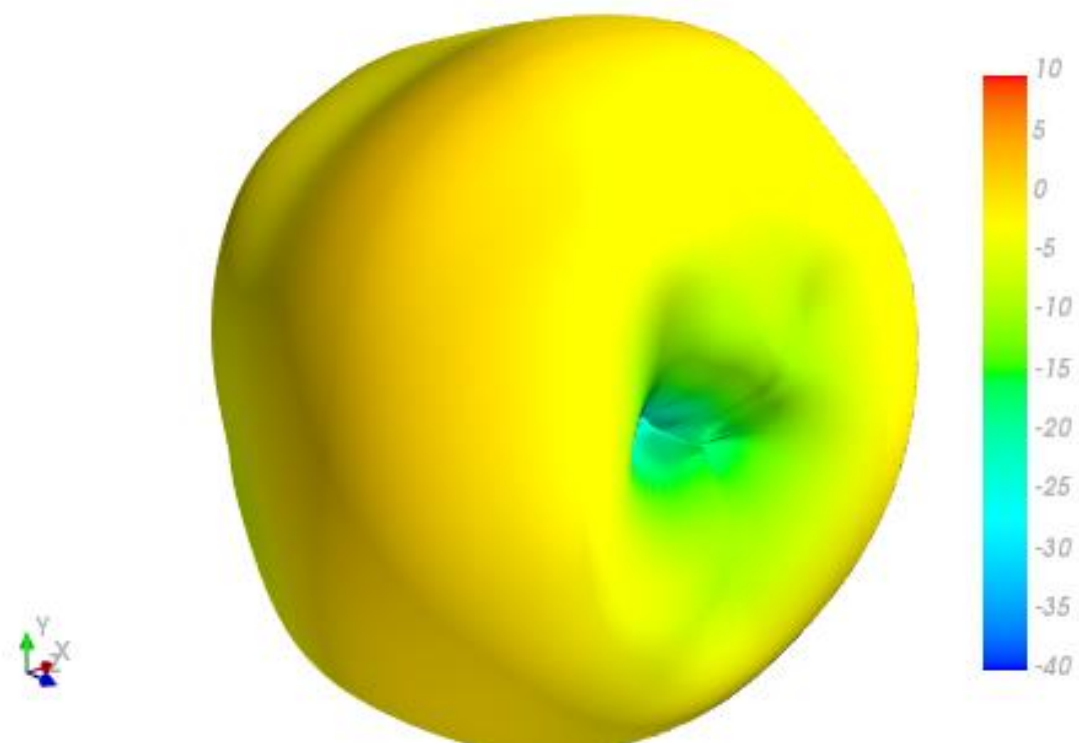
XZ Plane



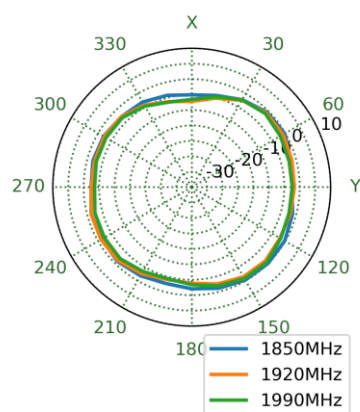
YZ Plane



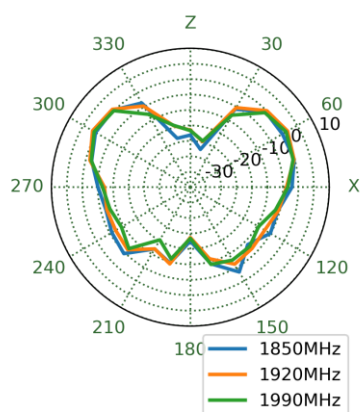
1920MHz



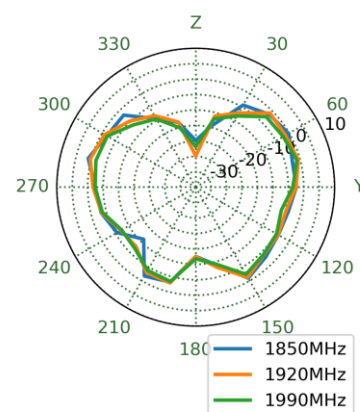
XY Plane



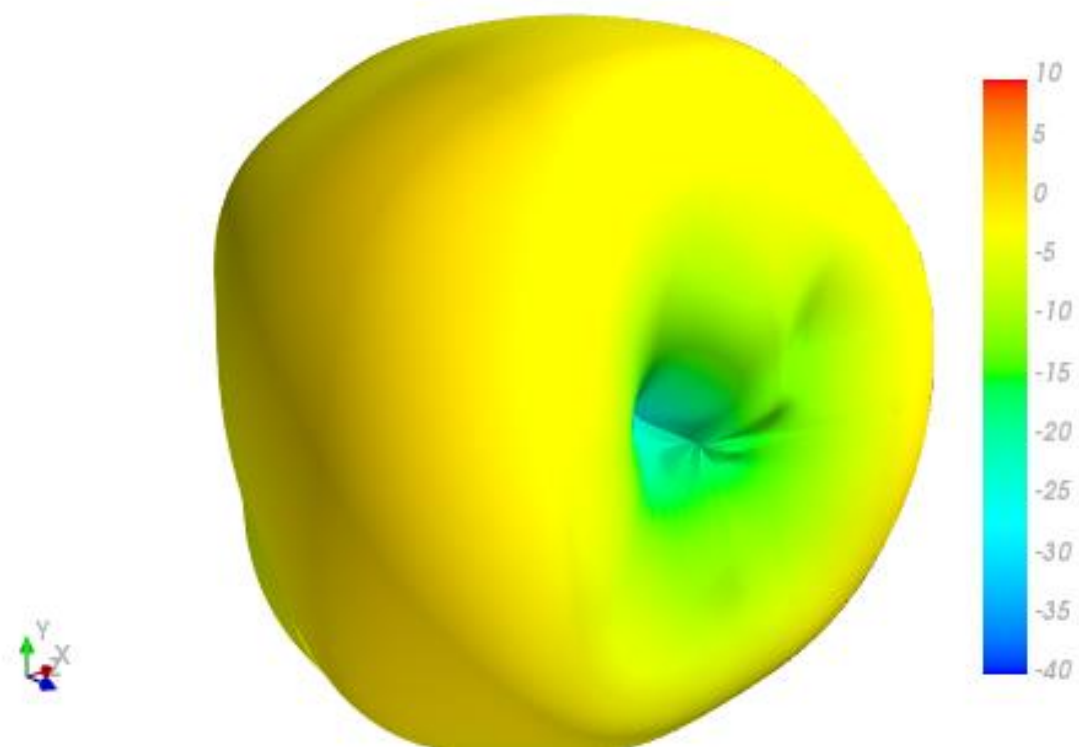
XZ Plane



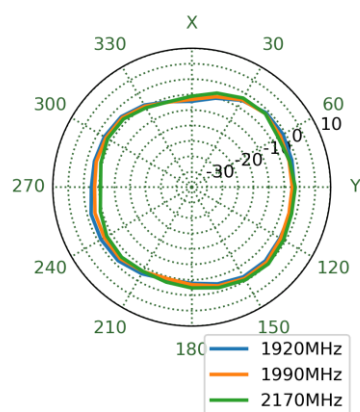
YZ Plane



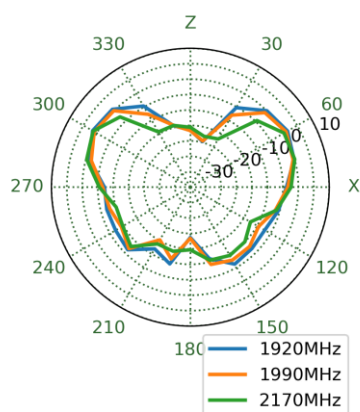
1990MHz



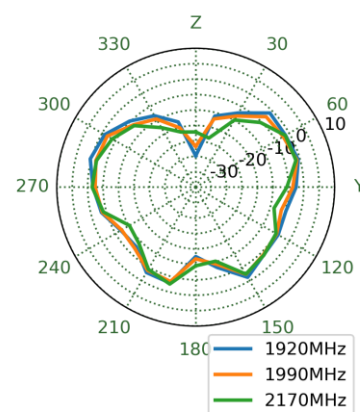
XY Plane



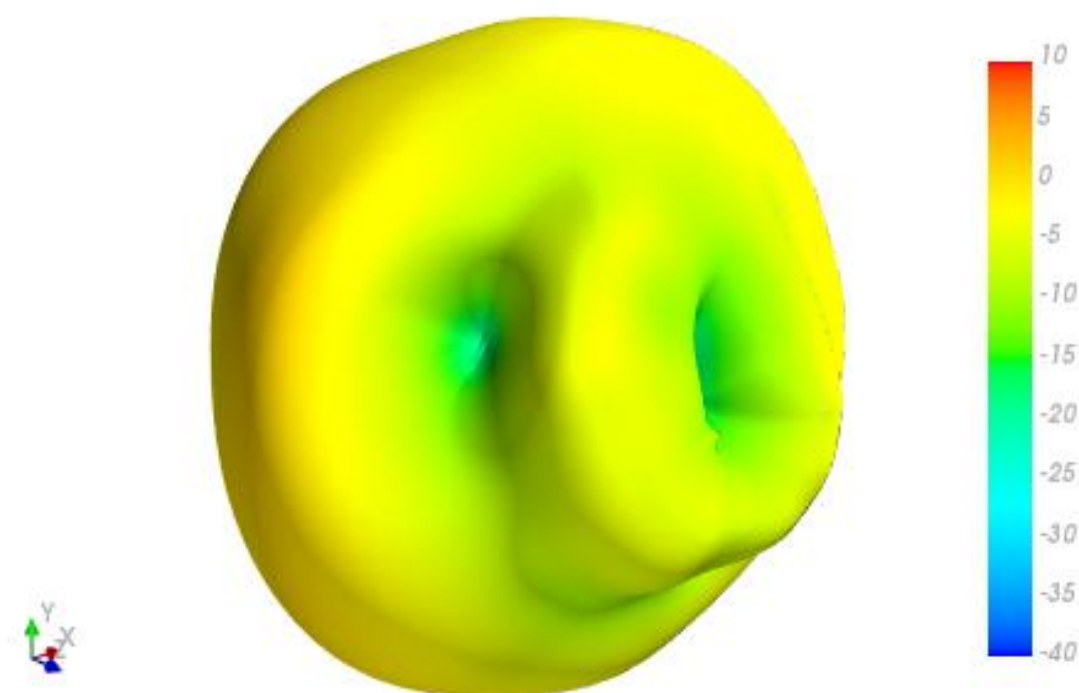
XZ Plane



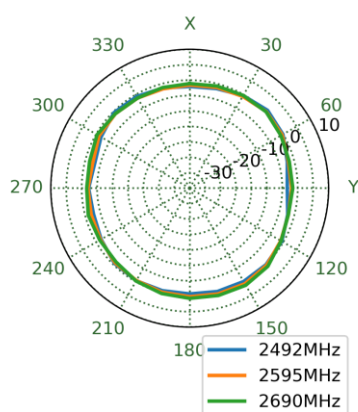
YZ Plane



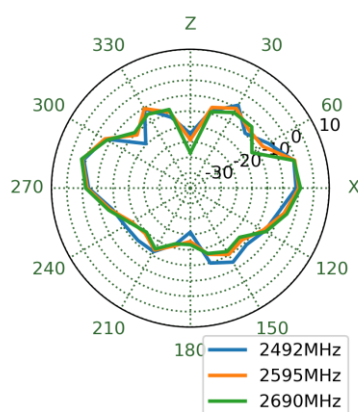
2595MHz



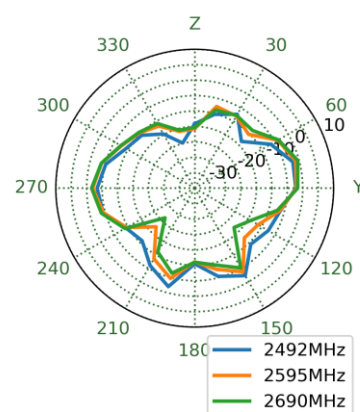
XY Plane



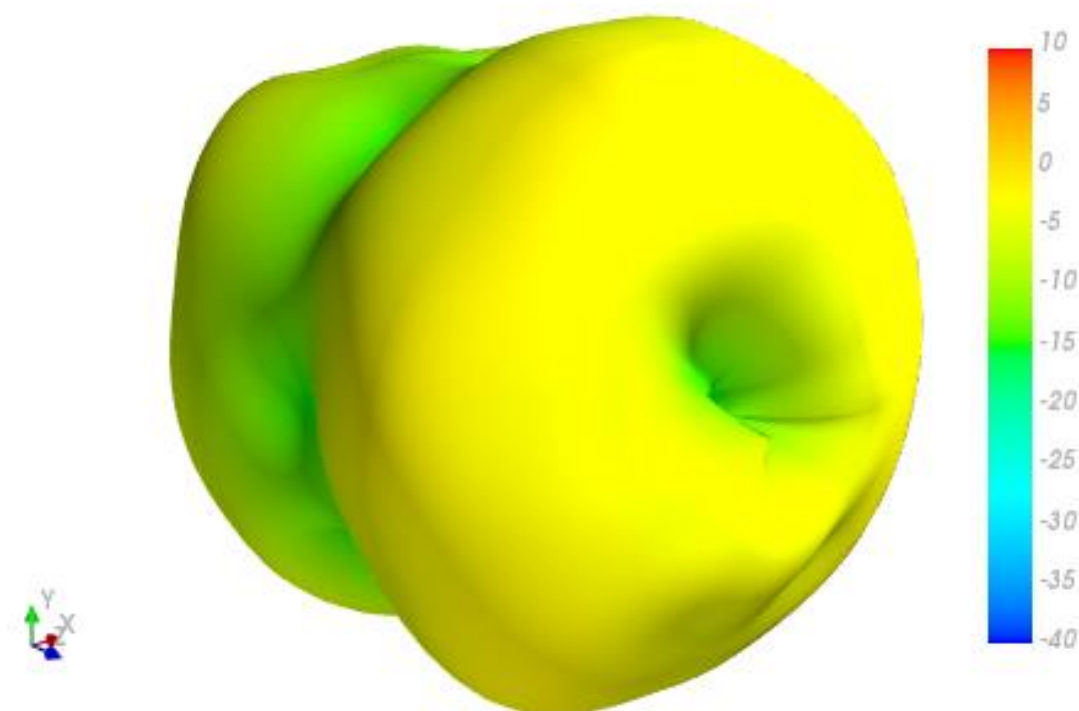
XZ Plane



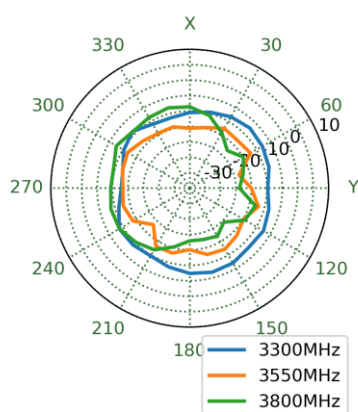
YZ Plane



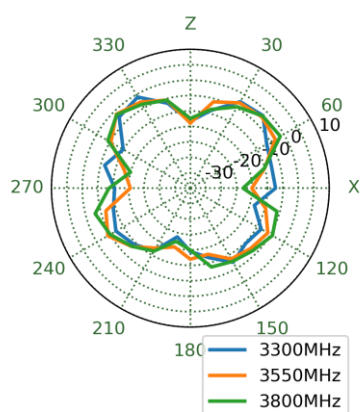
3550MHz



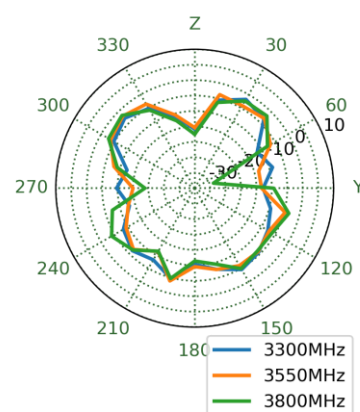
XY Plane



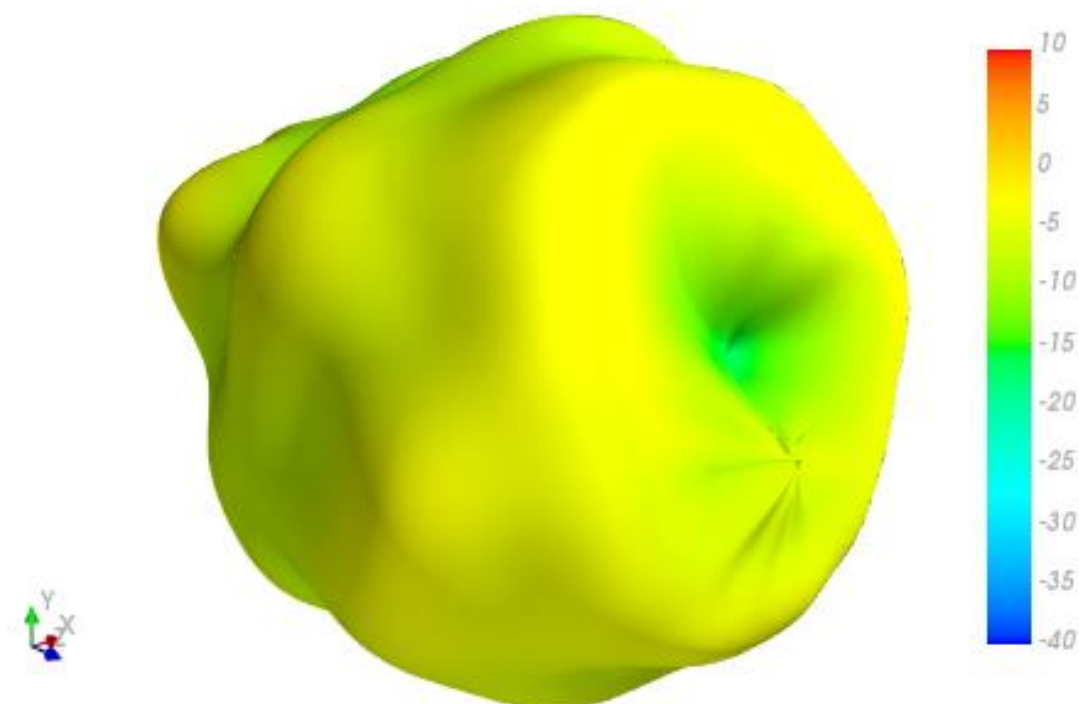
XZ Plane



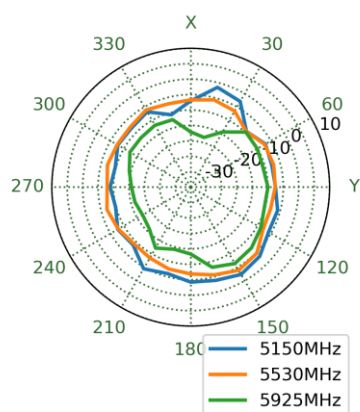
YZ Plane



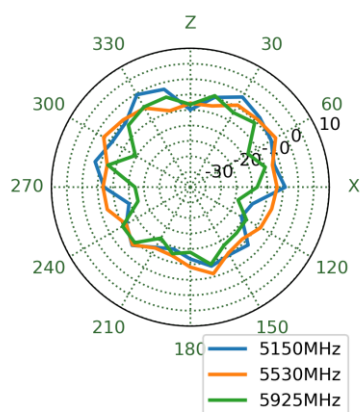
5530MHz



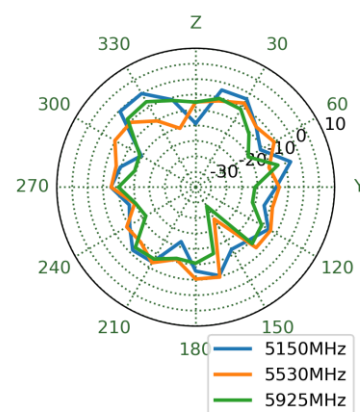
XY Plane



XZ Plane



YZ Plane



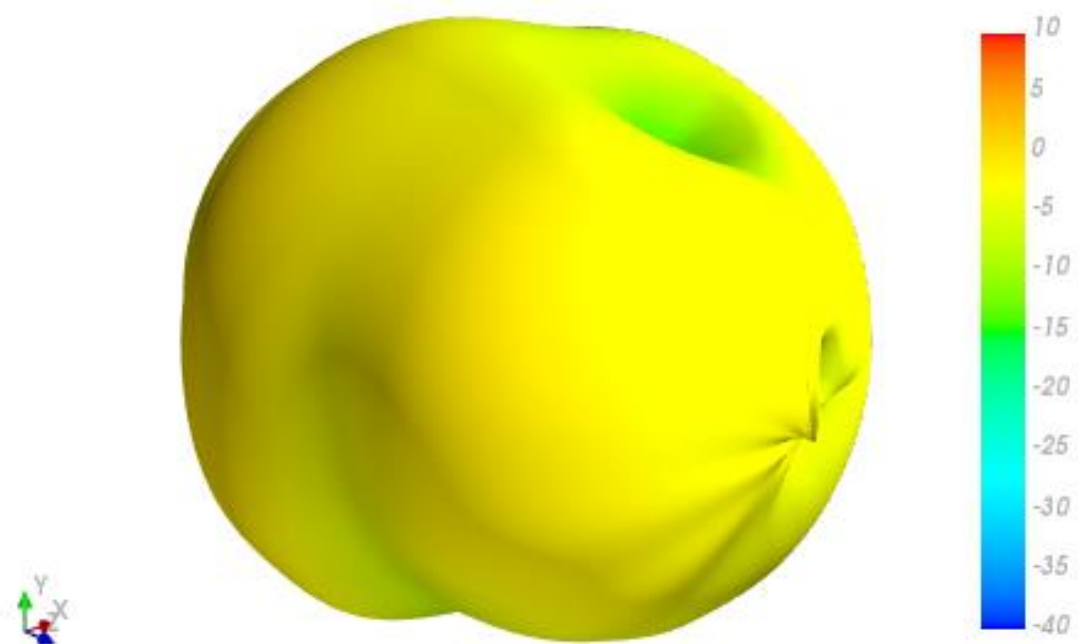
4.7 Test Setup



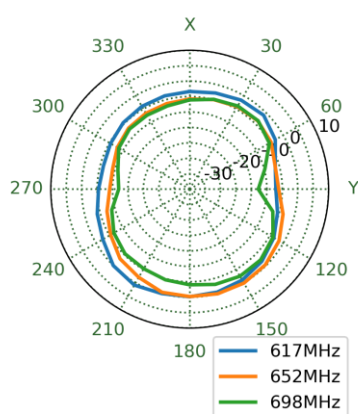
Bent 30x30cm Ground Plane Edge

4.8 Bent 30x30cm Ground Plane Edge 2D & 3D Radiation Patterns

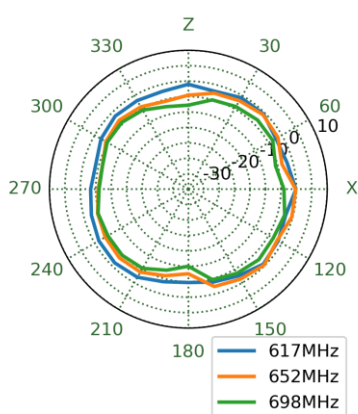
652MHz



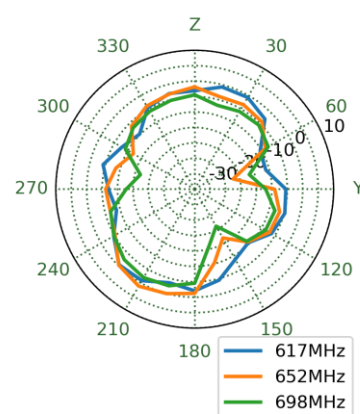
XY Plane



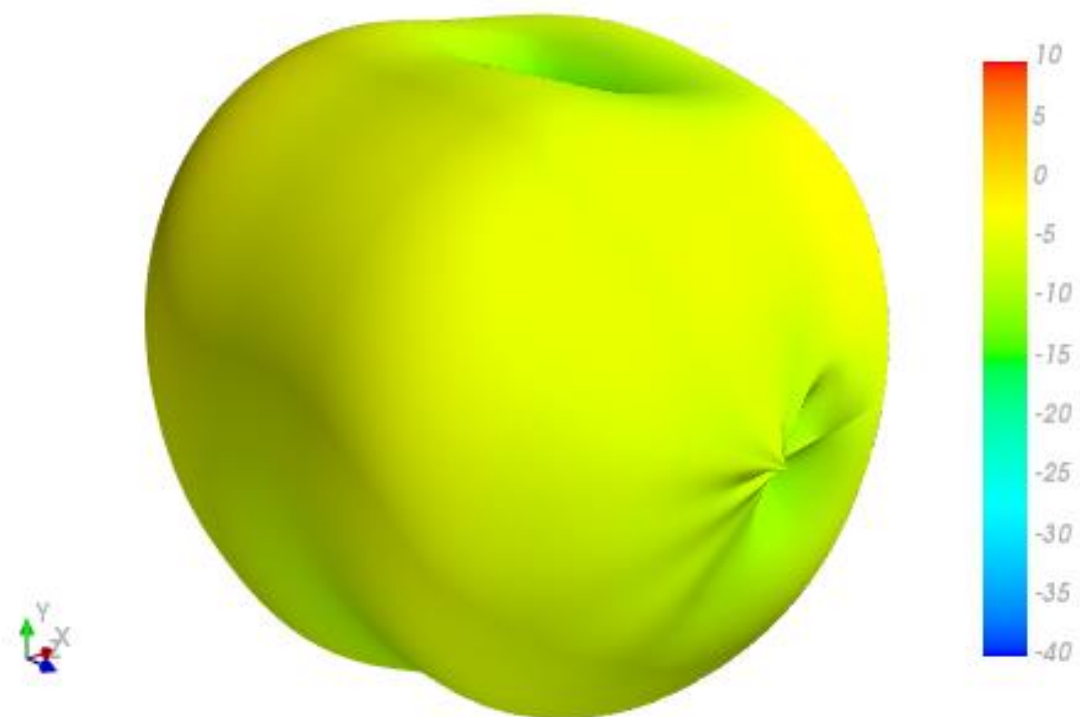
XZ Plane



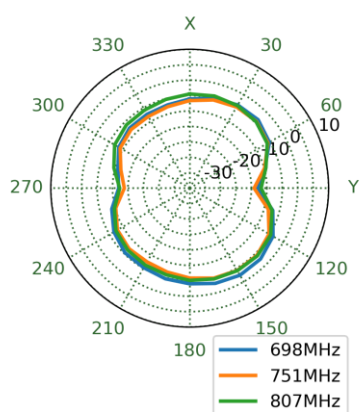
YZ Plane



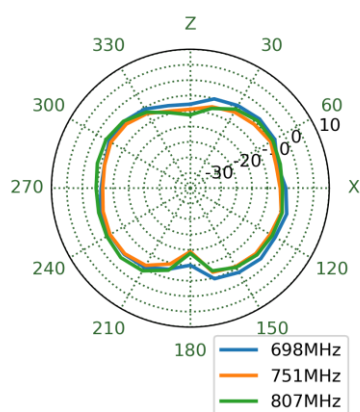
751MHz



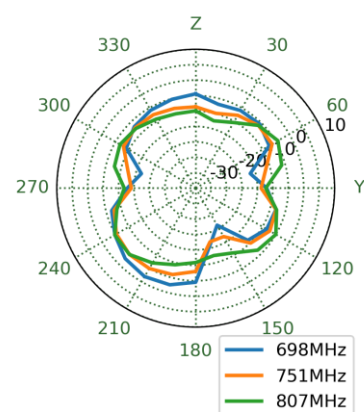
XY Plane



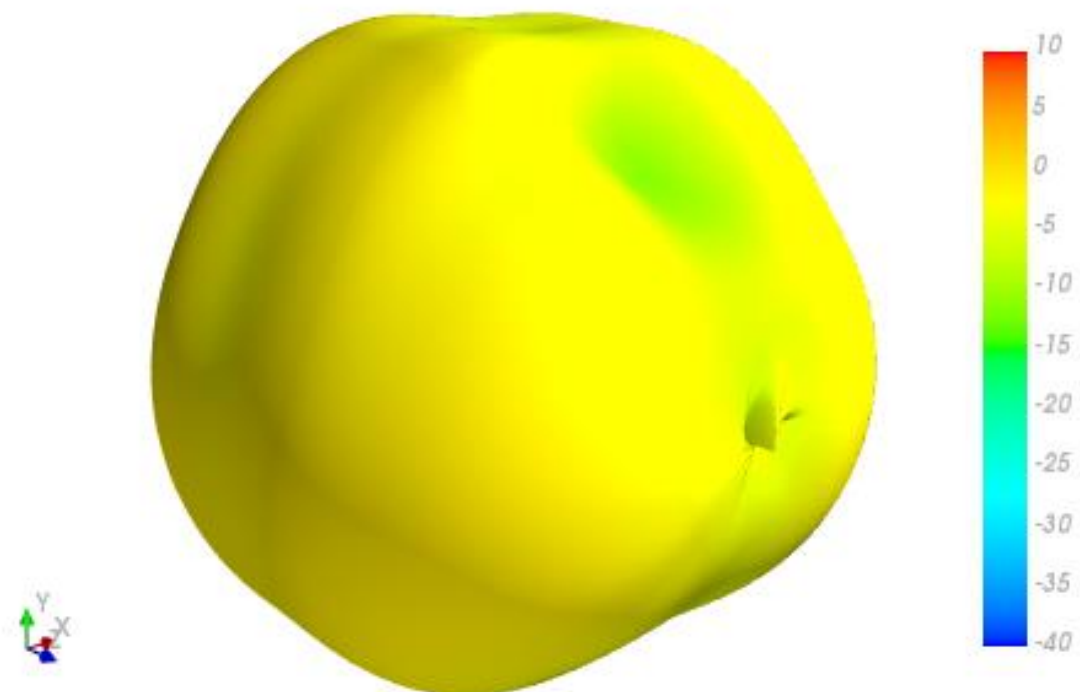
XZ Plane



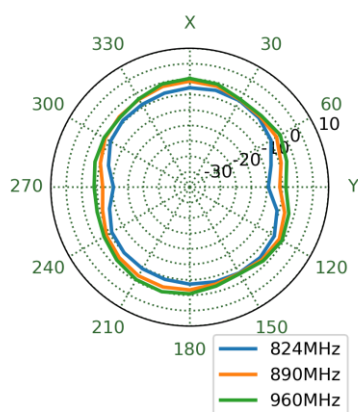
YZ Plane



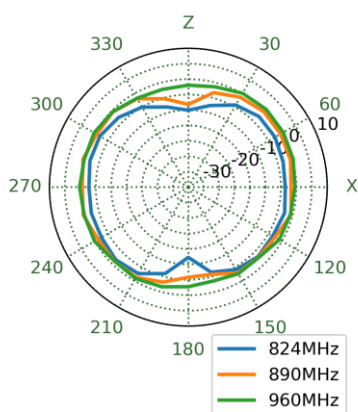
890MHz



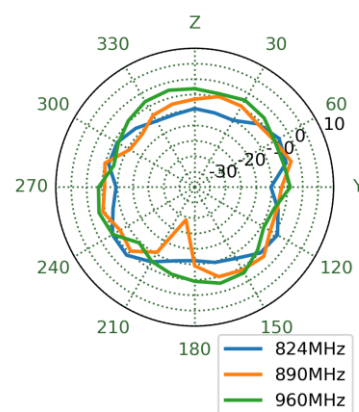
XY Plane



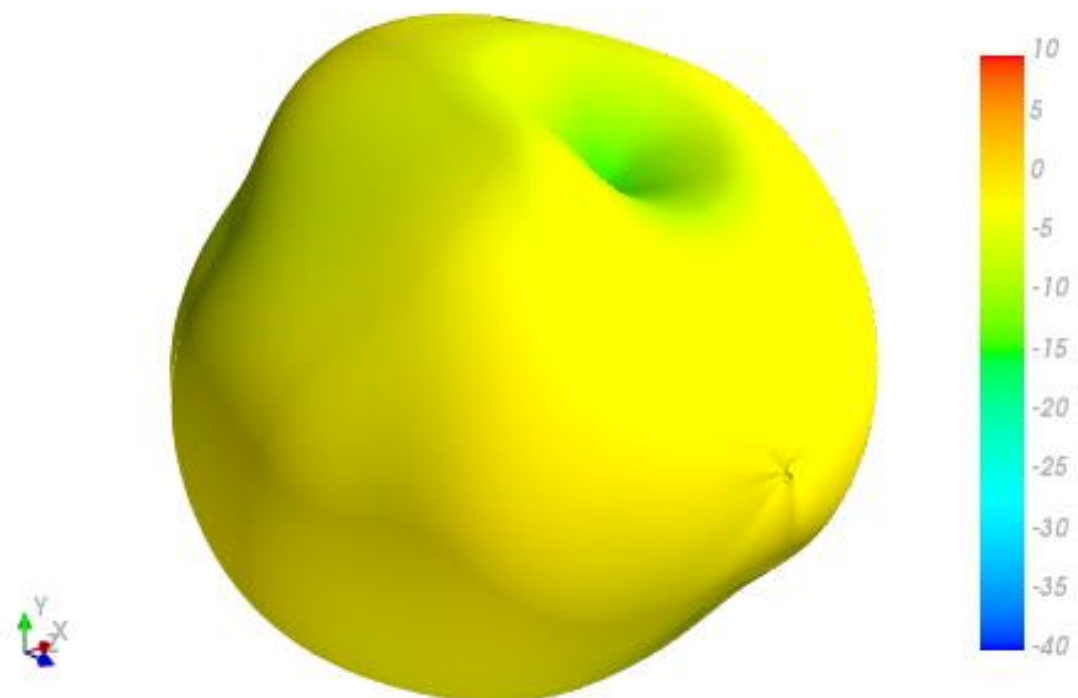
XZ Plane



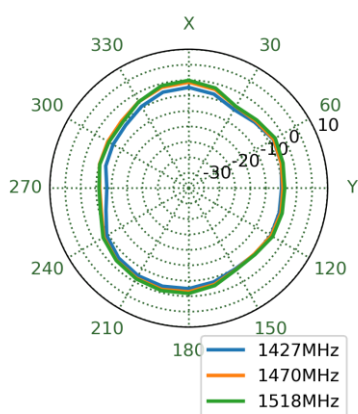
YZ Plane



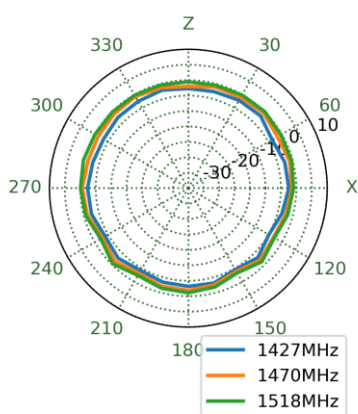
1470MHz



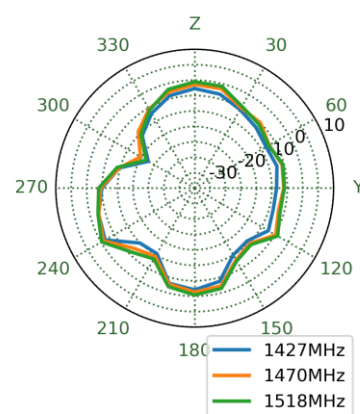
XY Plane



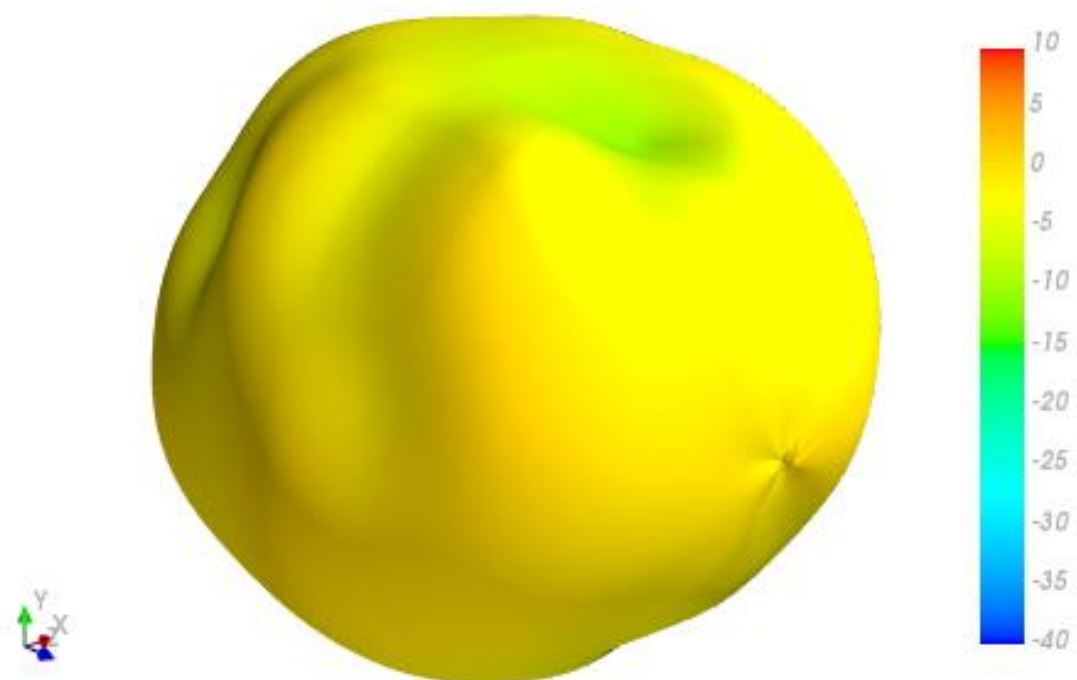
XZ Plane



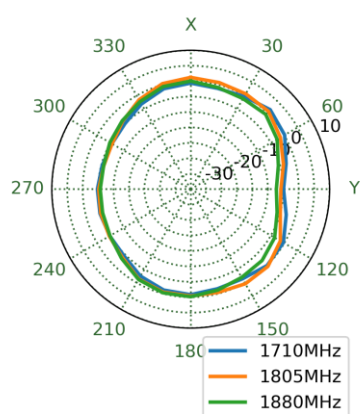
YZ Plane



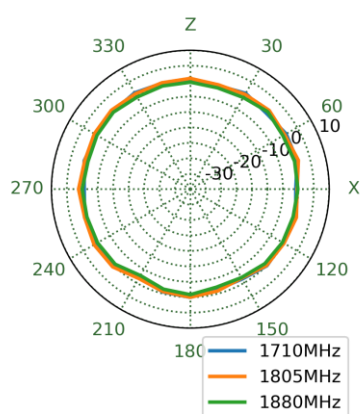
1805MHz



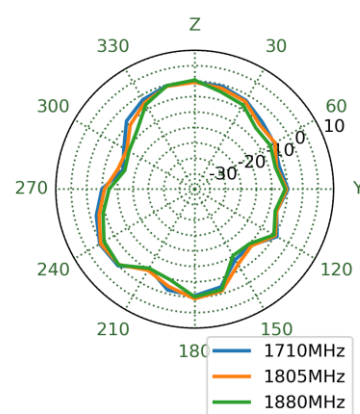
XY Plane



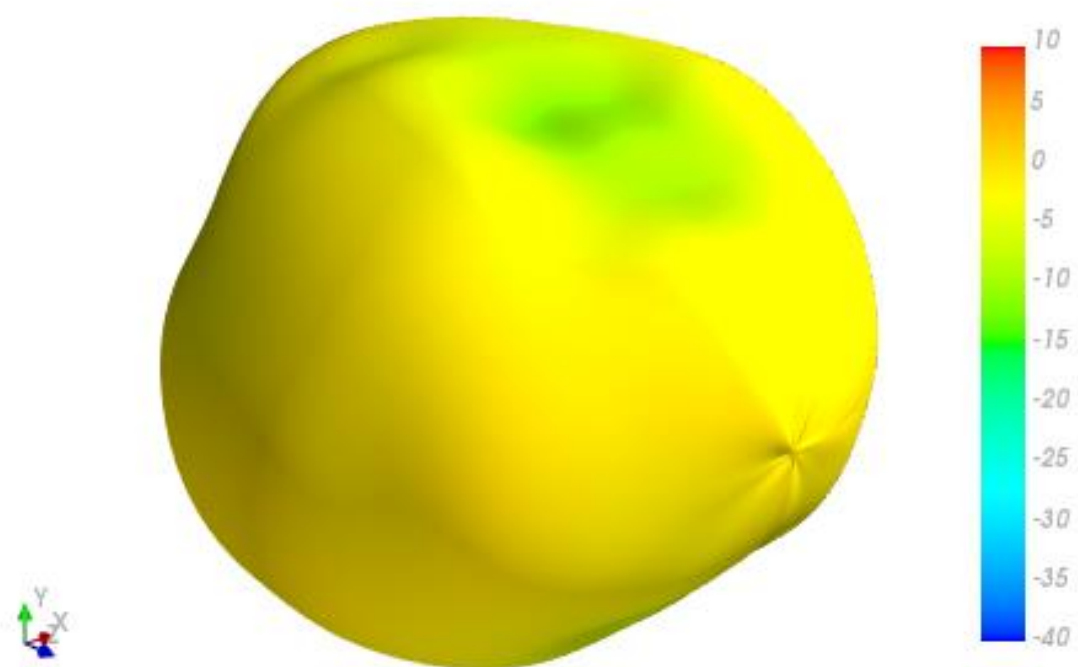
XZ Plane



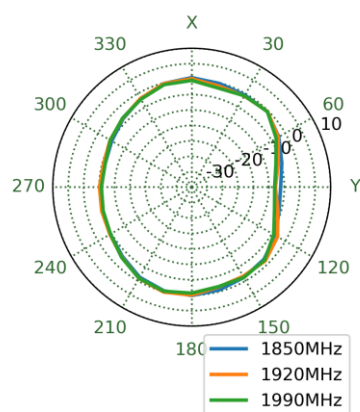
YZ Plane



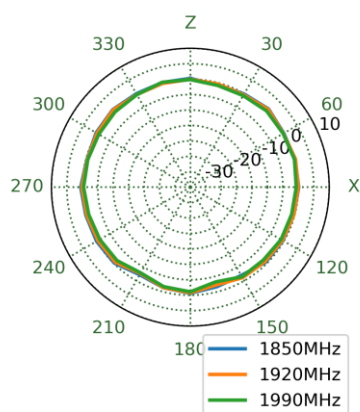
1920MHz



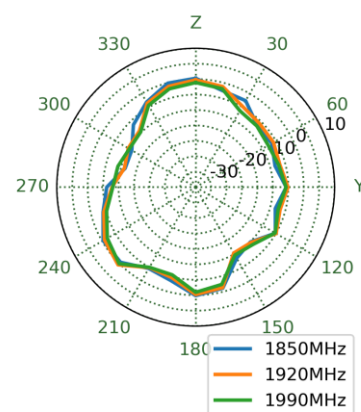
XY Plane



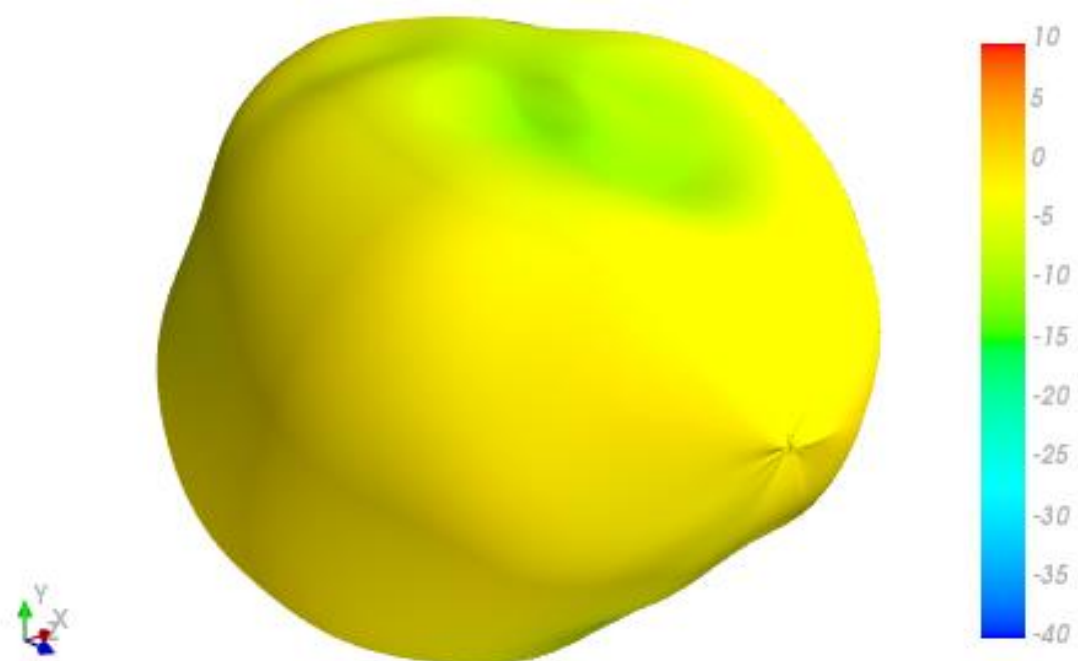
XZ Plane



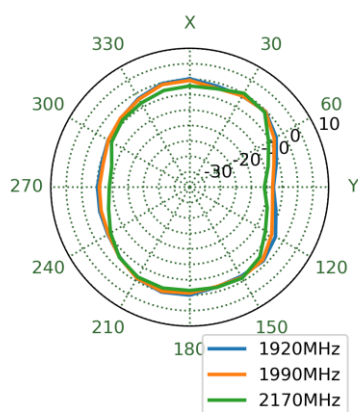
YZ Plane



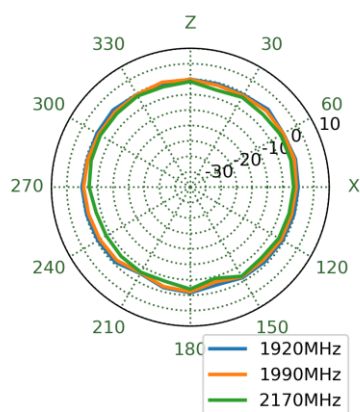
1990MHz



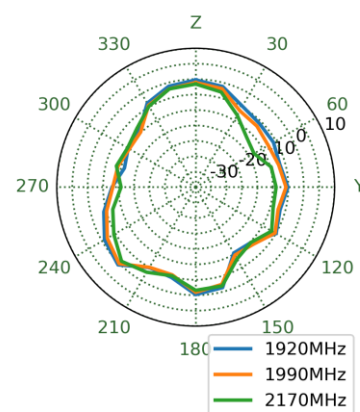
XY Plane



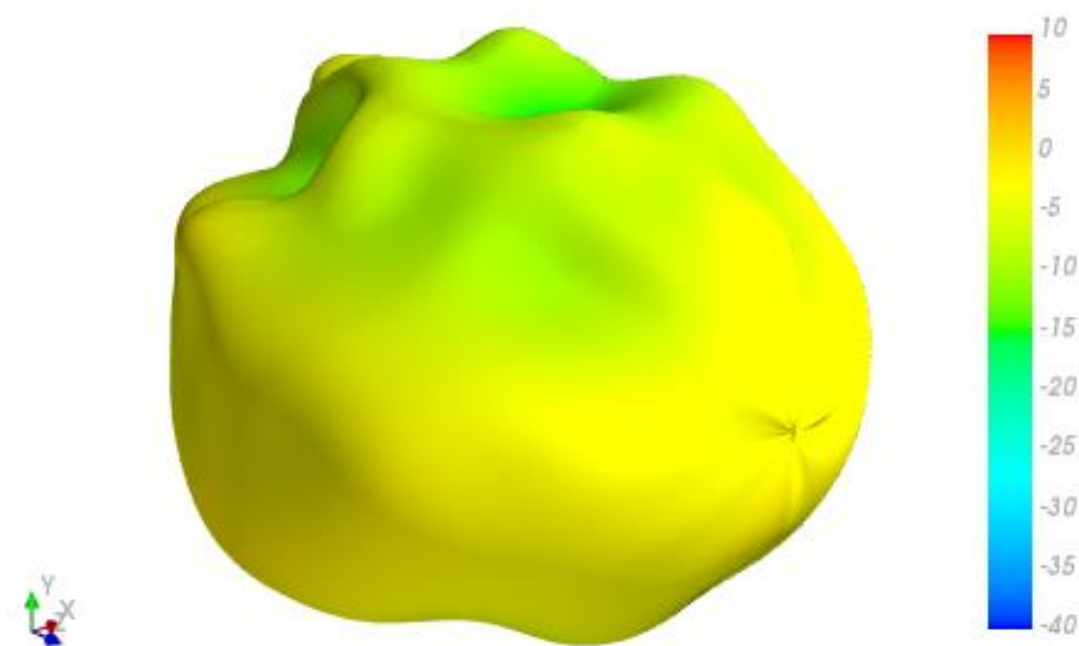
XZ Plane



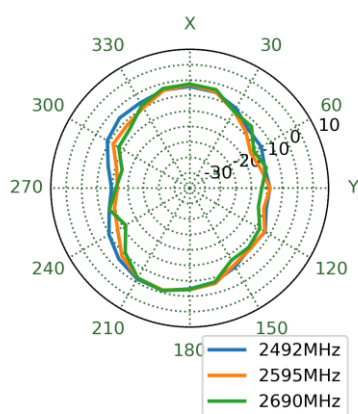
YZ Plane



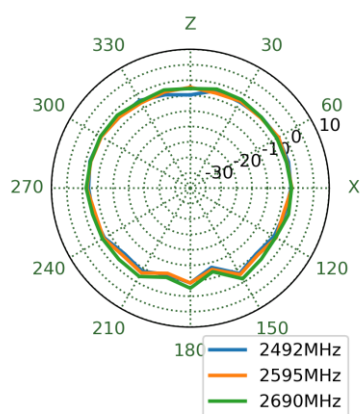
2595MHz



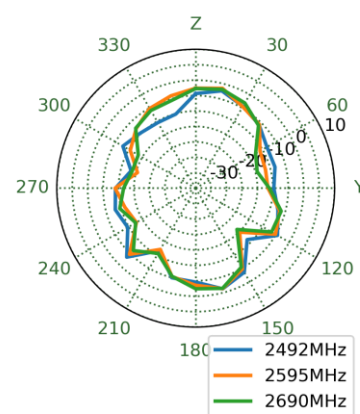
XY Plane



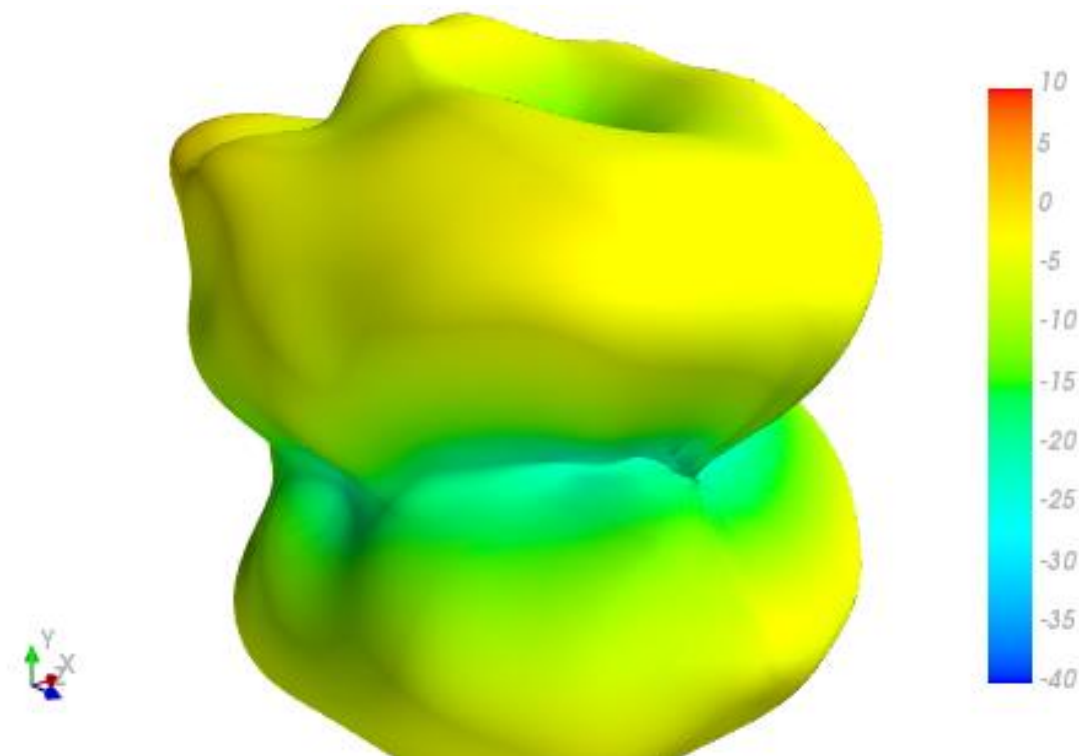
XZ Plane



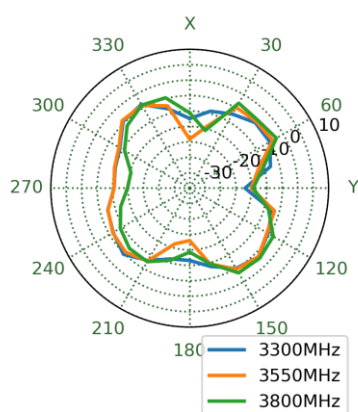
YZ Plane



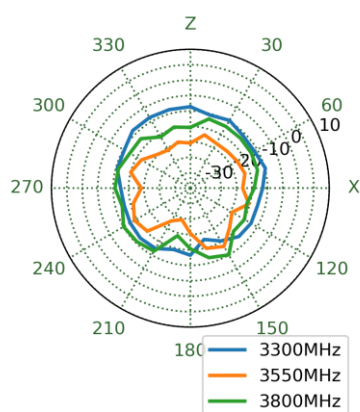
3550MHz



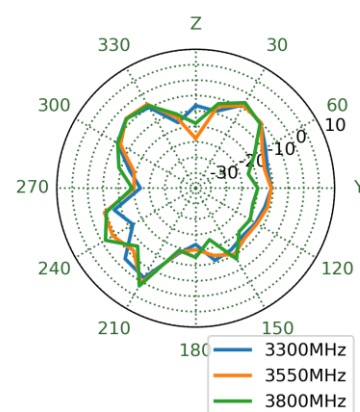
XY Plane



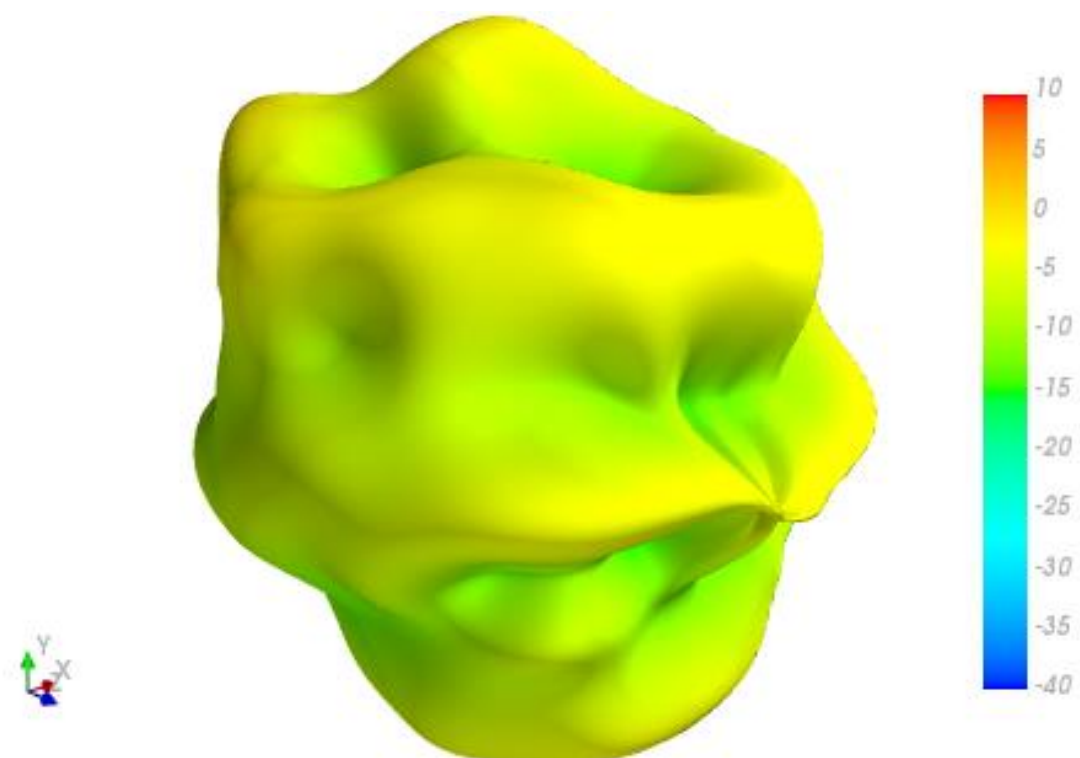
XZ Plane



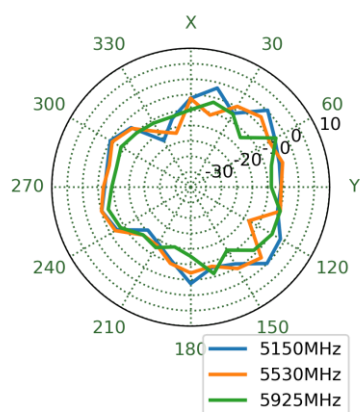
YZ Plane



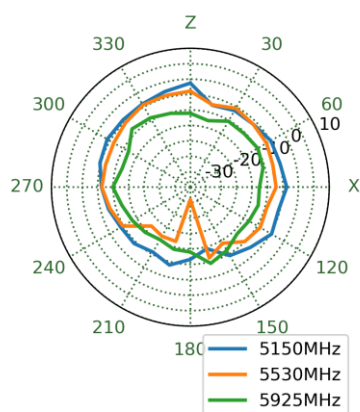
5530MHz



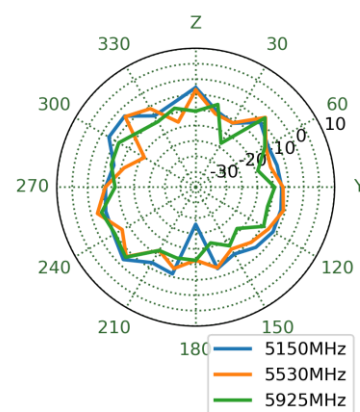
XY Plane



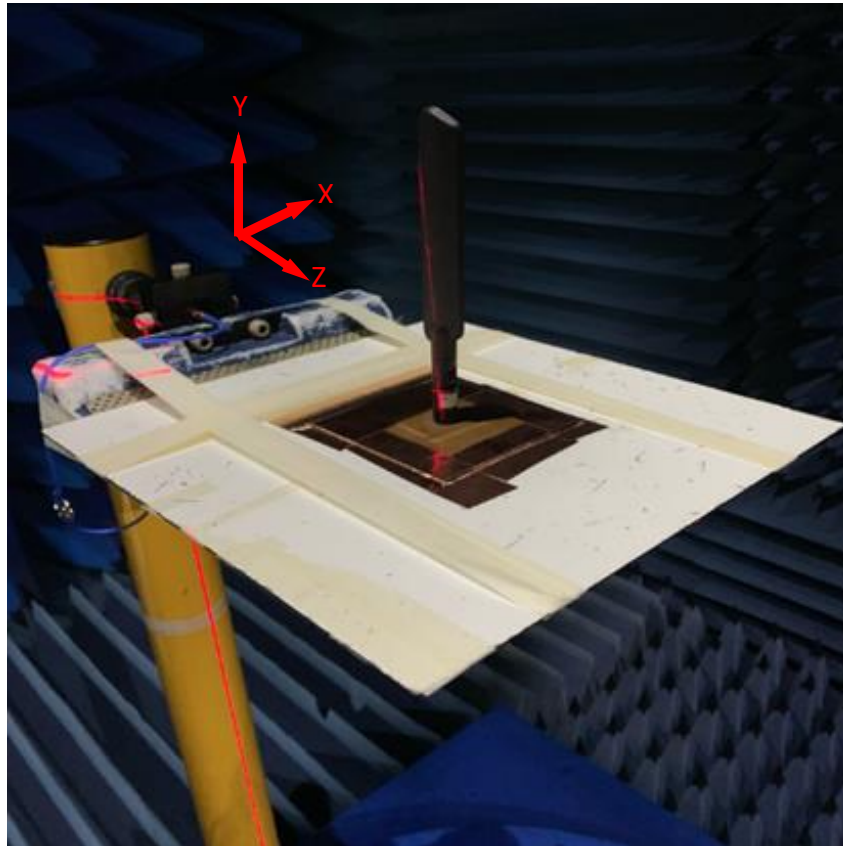
XZ Plane



YZ Plane



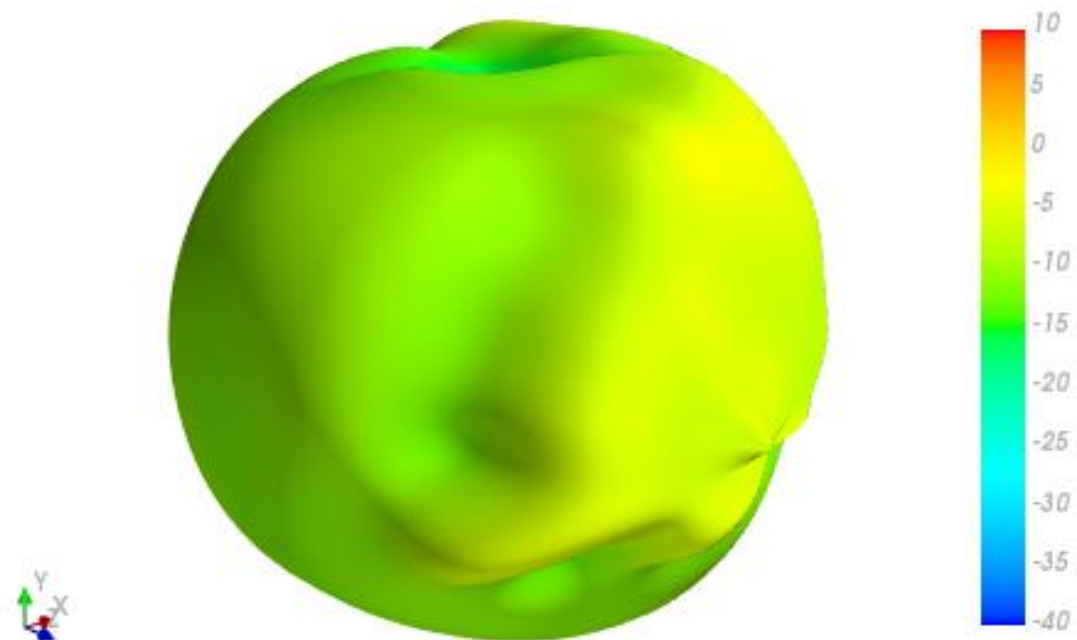
4.9 Test Setup



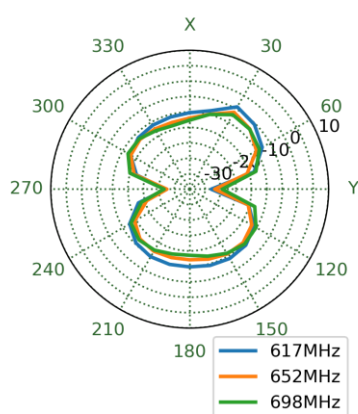
Straight 30x30cm Ground Plane Centre

4.10 Straight 30x30cm Ground Plane Centre 2D & 3D Radiation Patterns

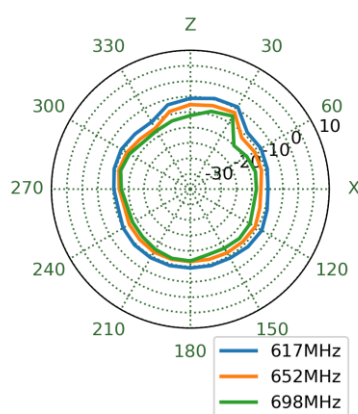
652MHz



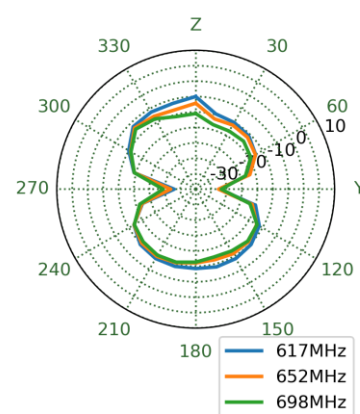
XY Plane



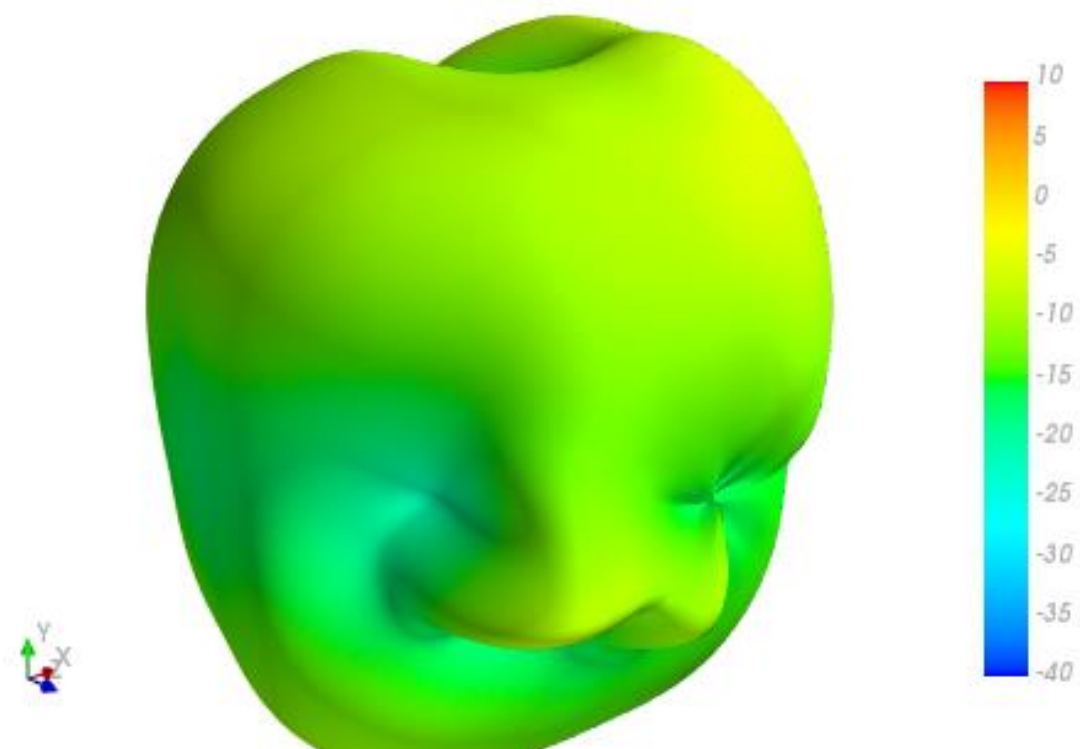
XZ Plane



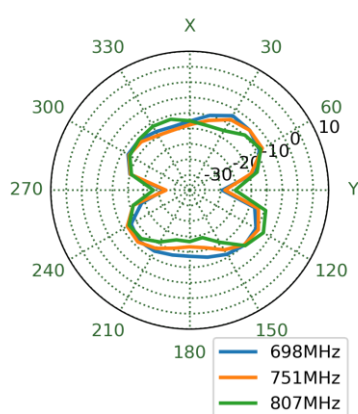
YZ Plane



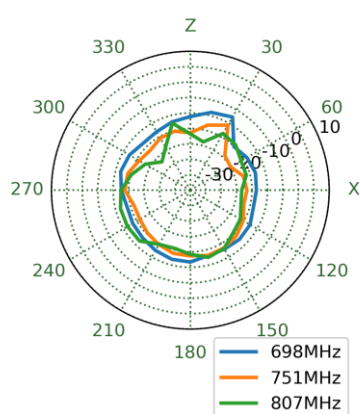
751MHz



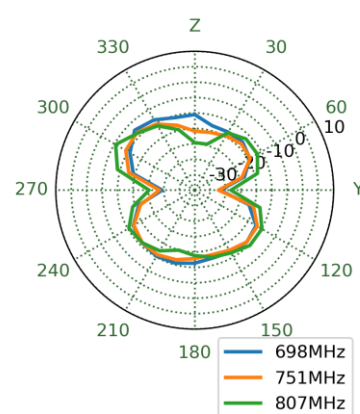
XY Plane



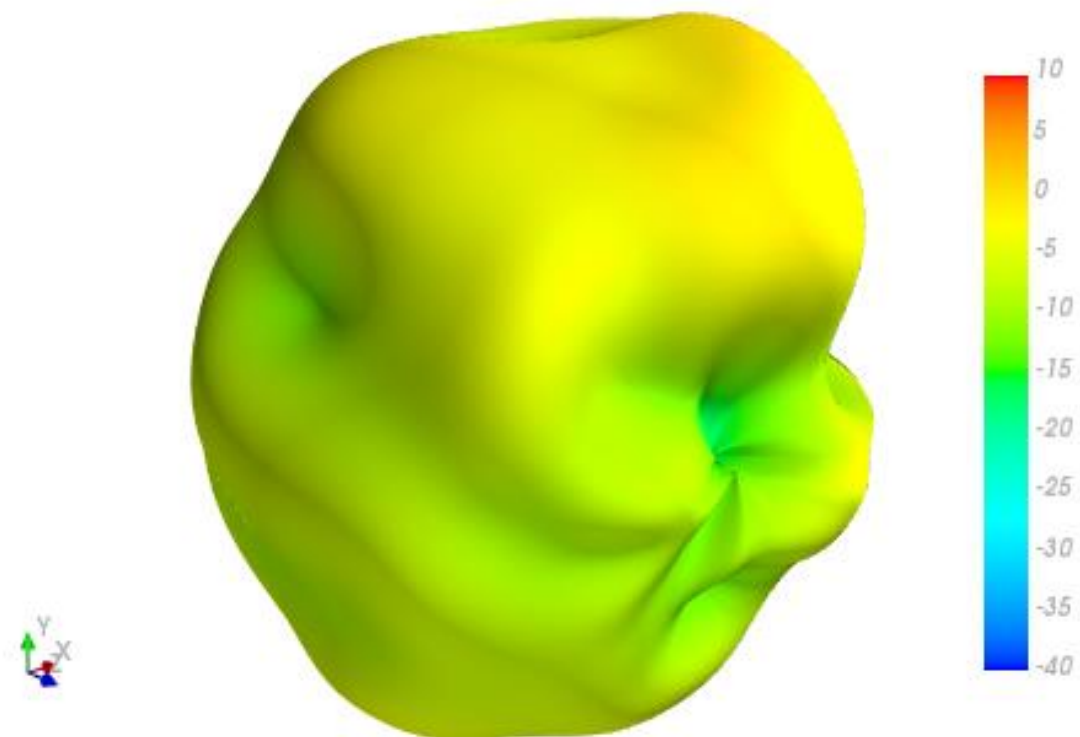
XZ Plane



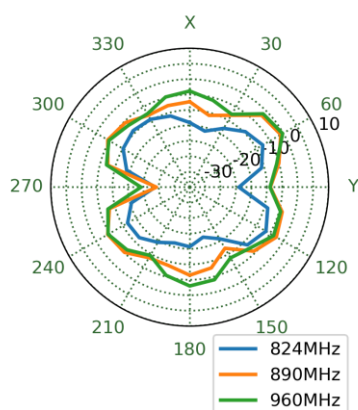
YZ Plane



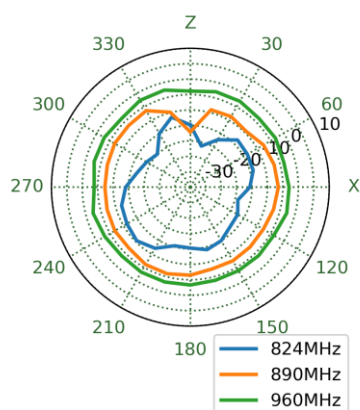
890MHz



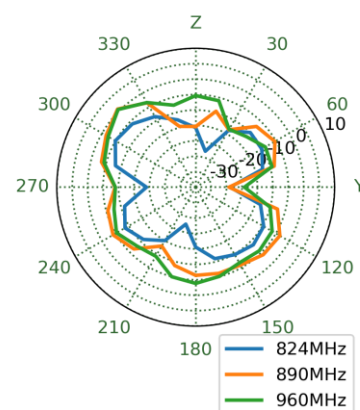
XY Plane



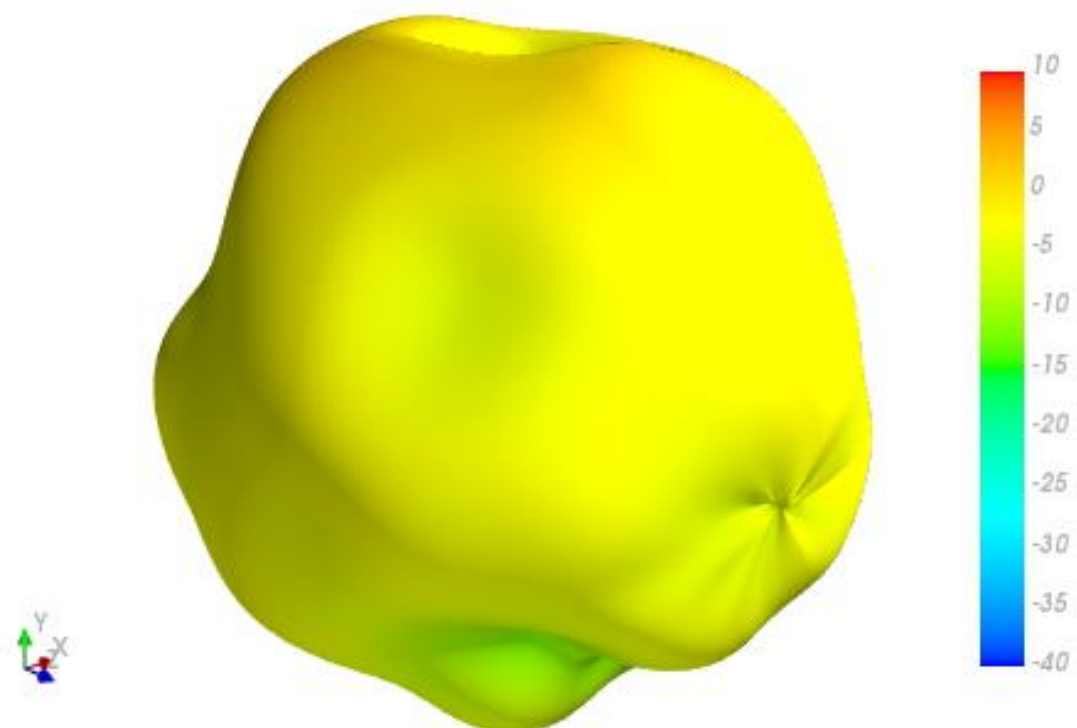
XZ Plane



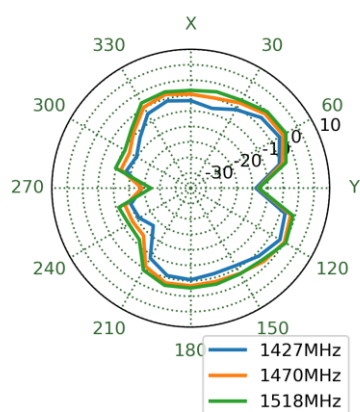
YZ Plane



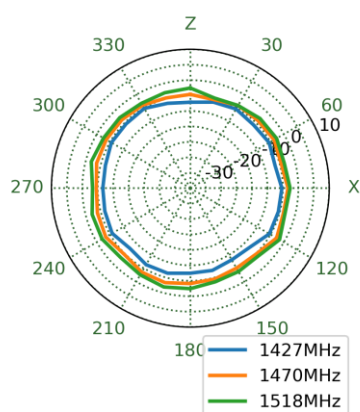
1470MHz



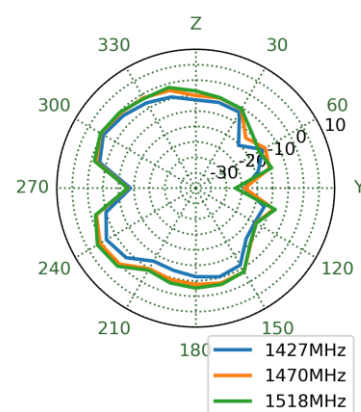
XY Plane



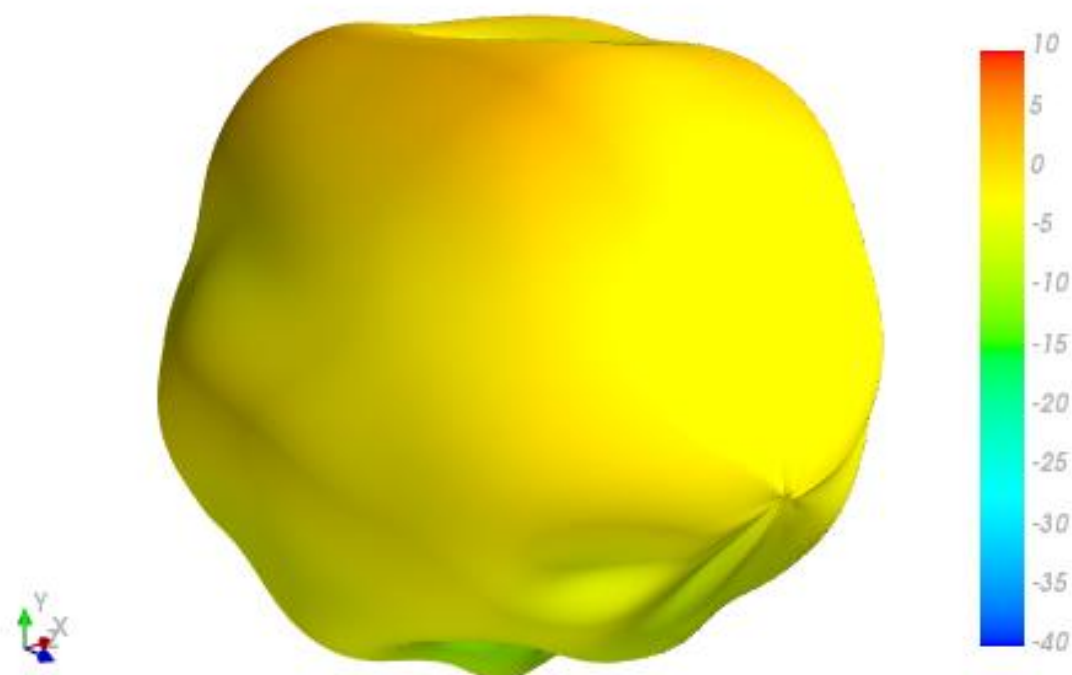
XZ Plane



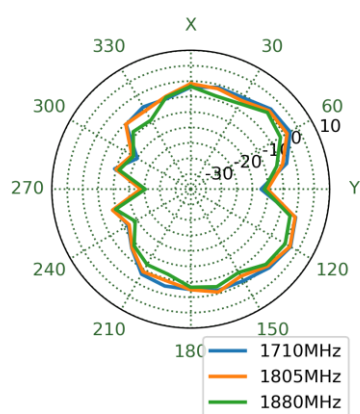
YZ Plane



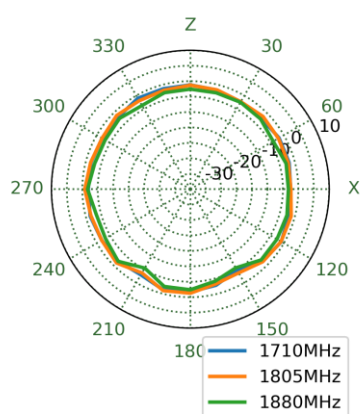
1805MHz



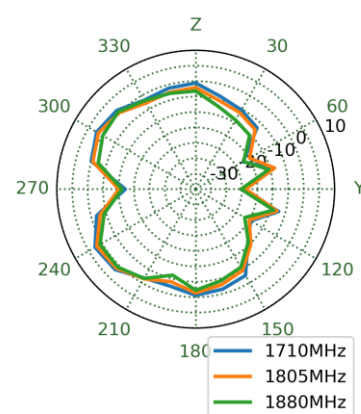
XY Plane



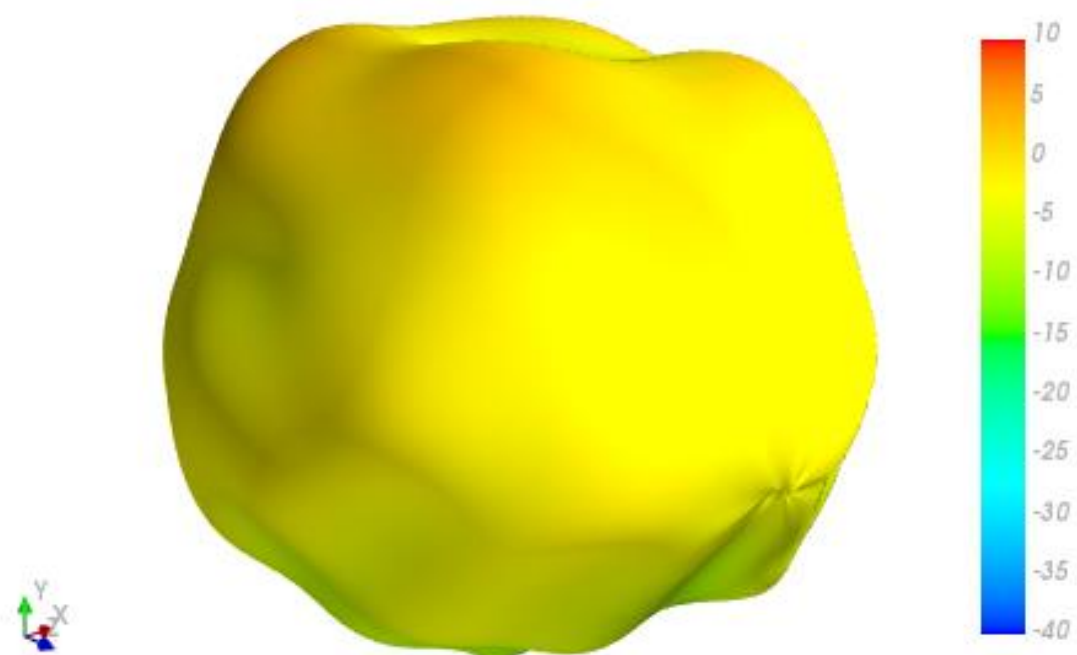
XZ Plane



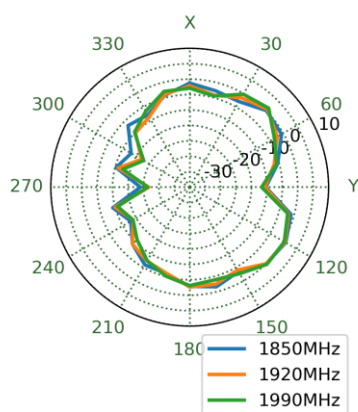
YZ Plane



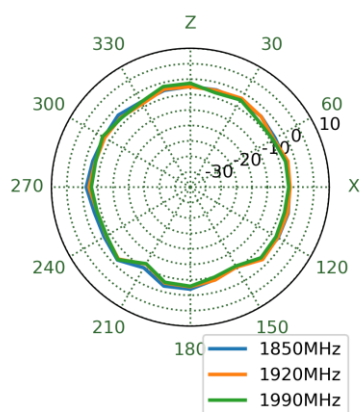
1920MHz



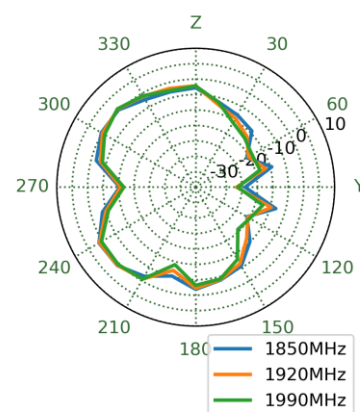
XY Plane



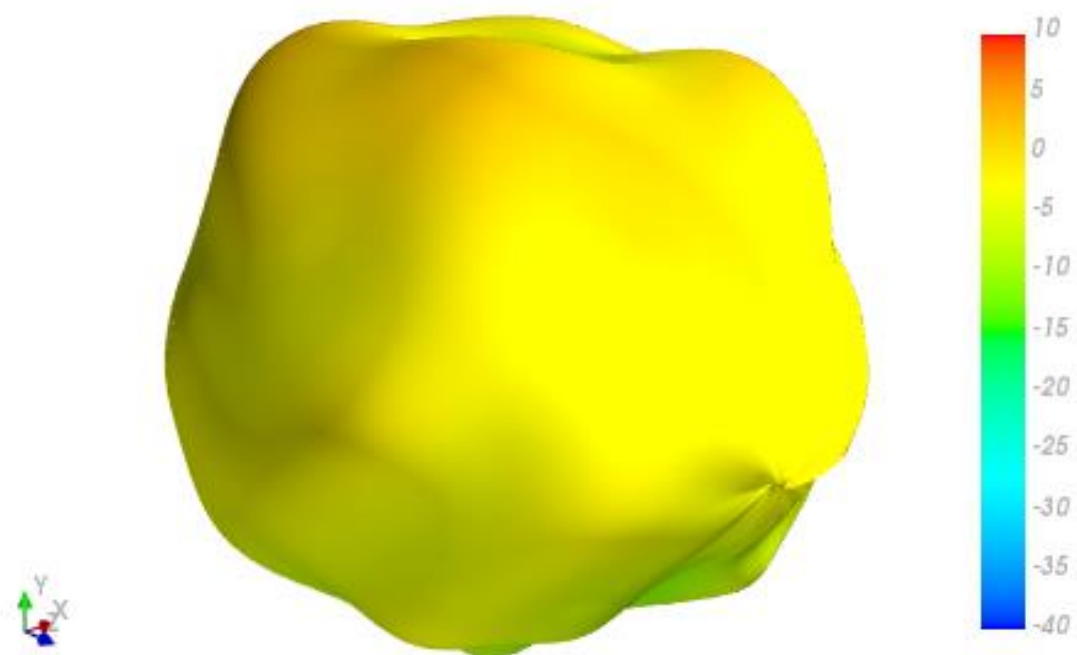
XZ Plane



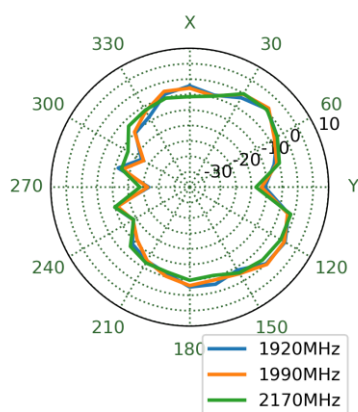
YZ Plane



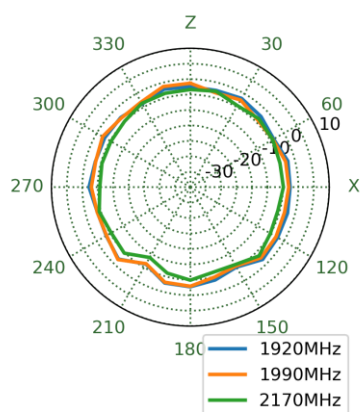
1990MHz



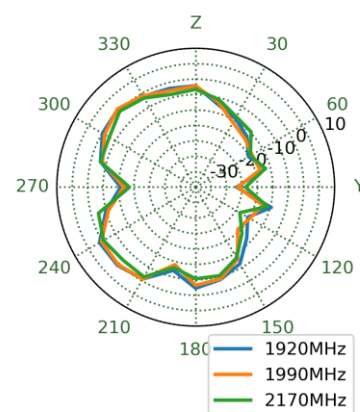
XY Plane



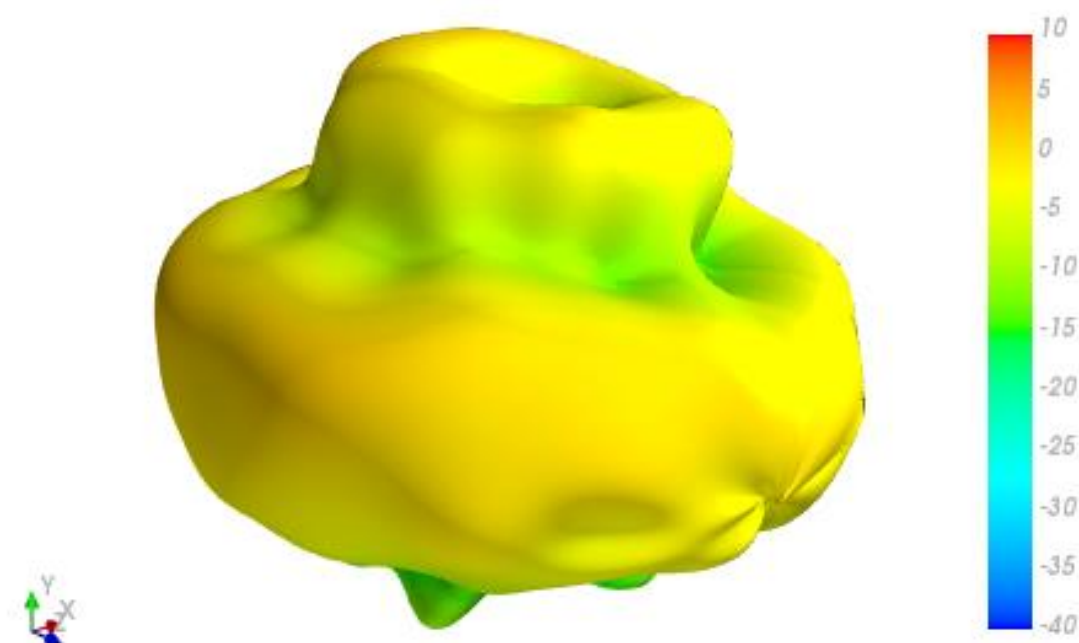
XZ Plane



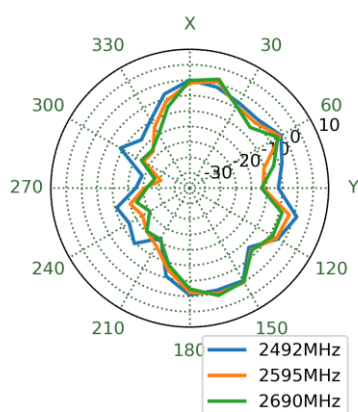
YZ Plane



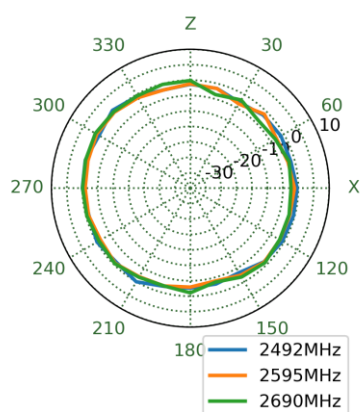
2595MHz



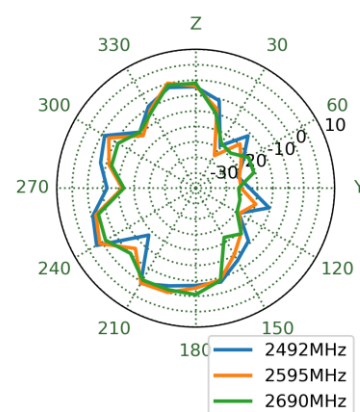
XY Plane



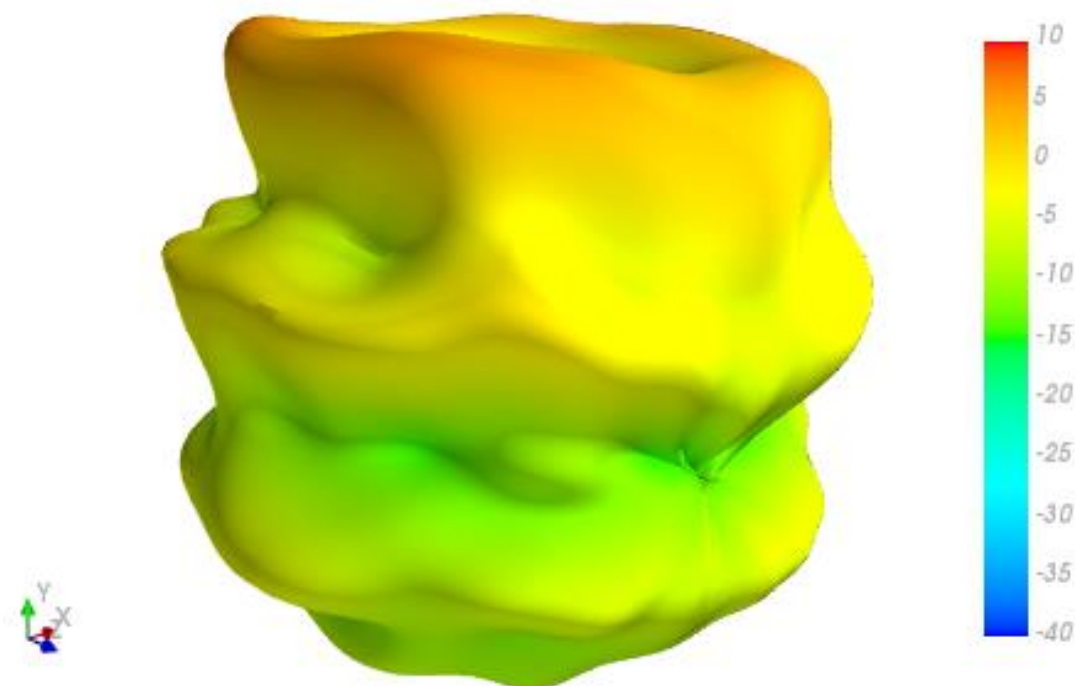
XZ Plane



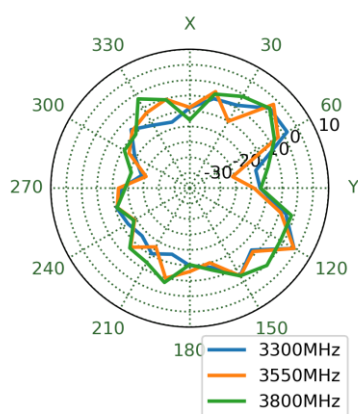
YZ Plane



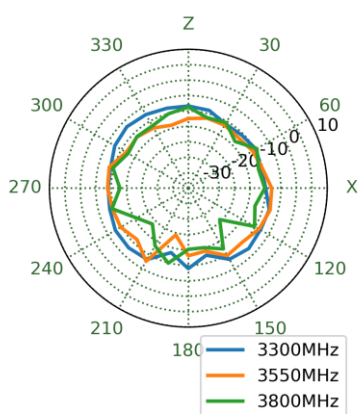
3550MHz



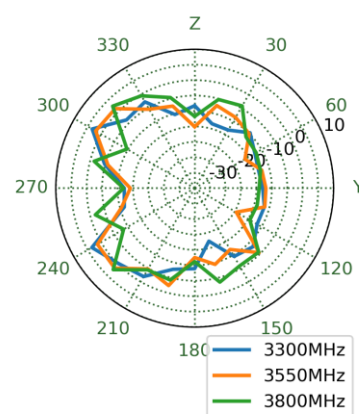
XY Plane



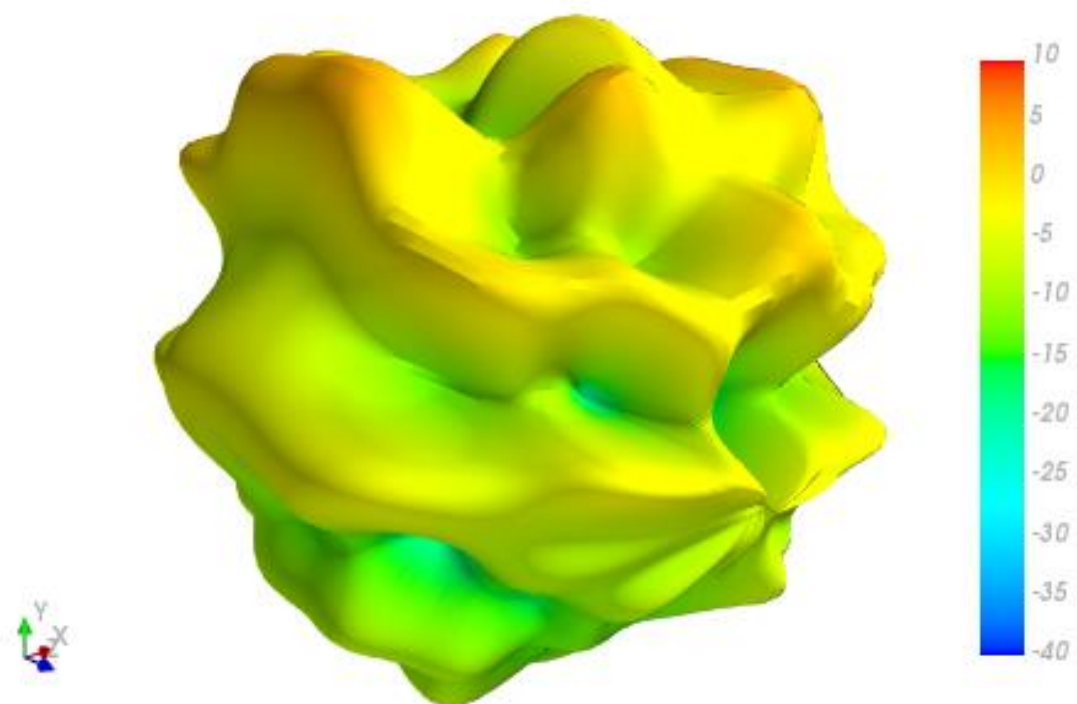
XZ Plane



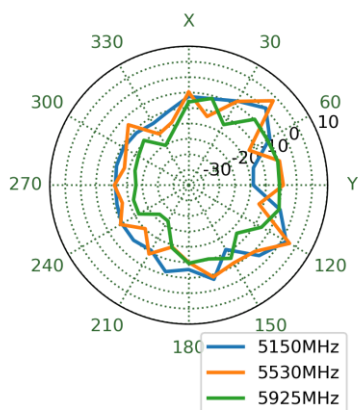
YZ Plane



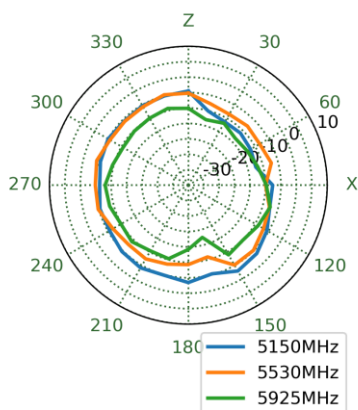
5530MHz



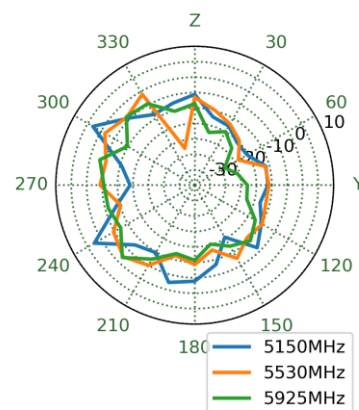
XY Plane



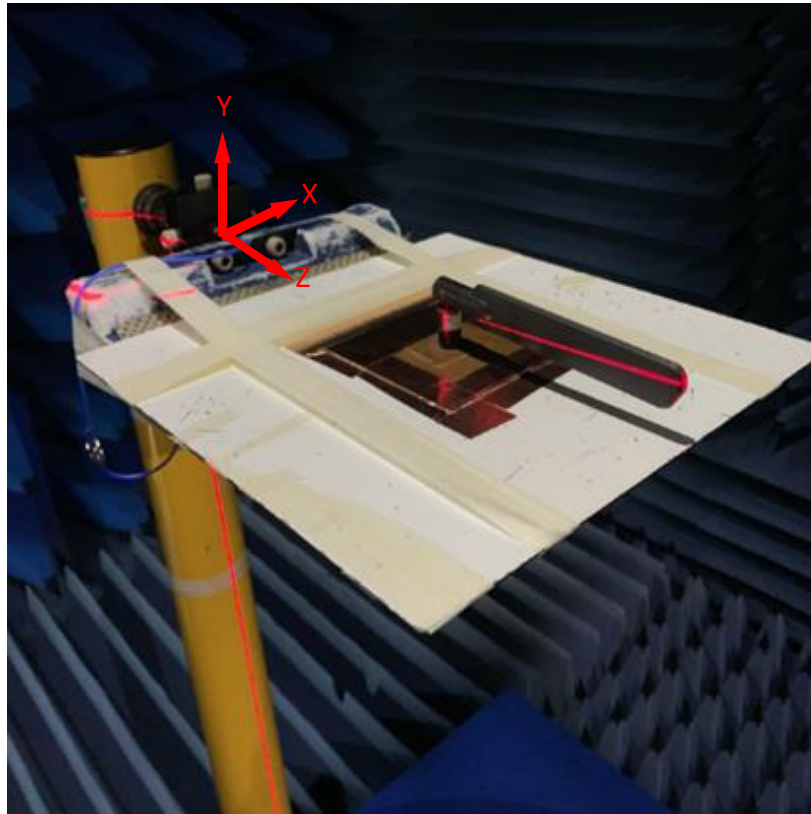
XZ Plane



YZ Plane



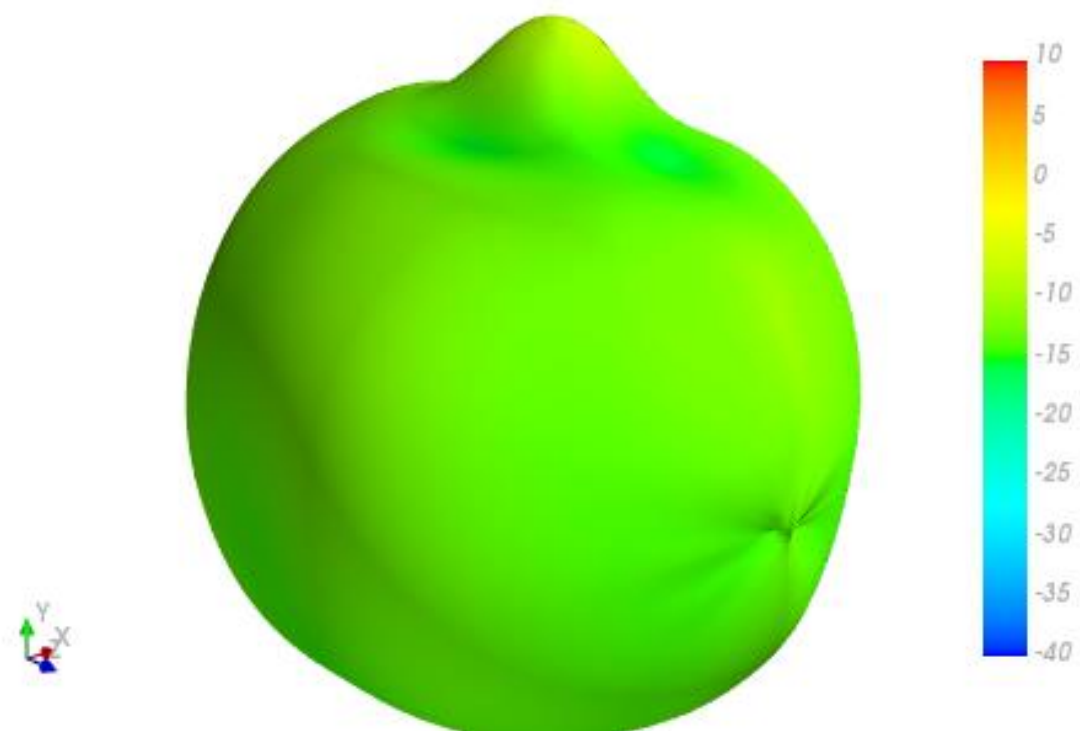
4.11 Test Setup



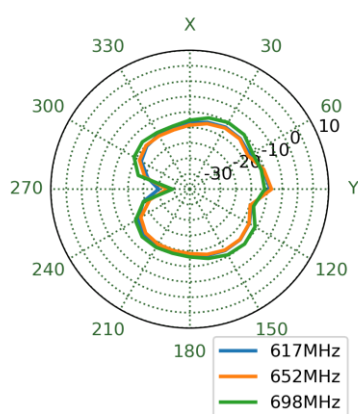
Bent 30x30cm Ground Plane Centre

4.12 Bent 30x30cm Ground Plane Centre 2D & 3D Radiation Patterns

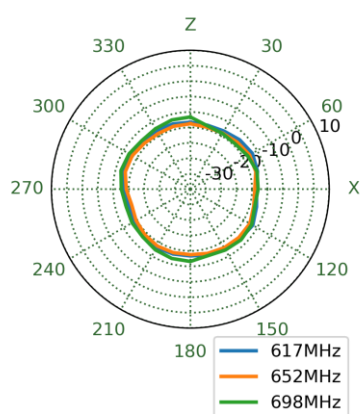
652MHz



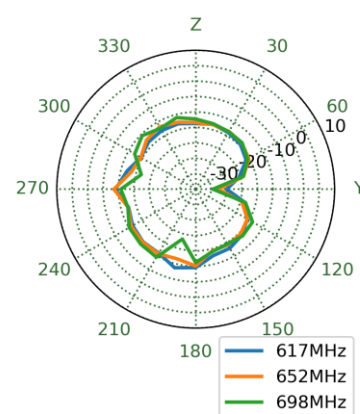
XY Plane



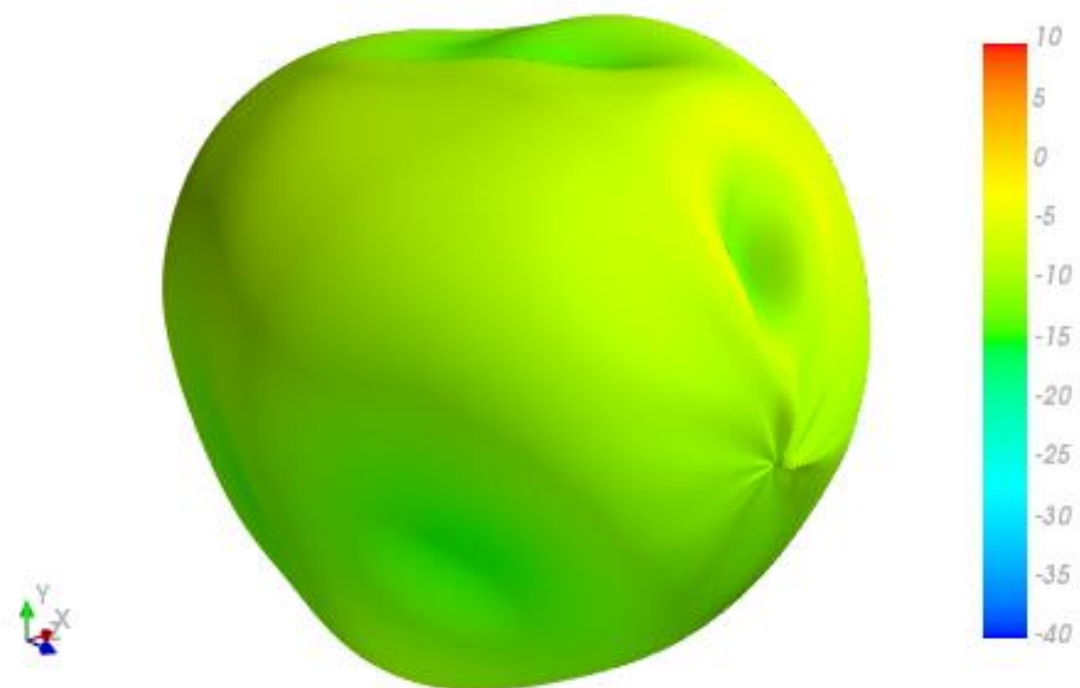
XZ Plane



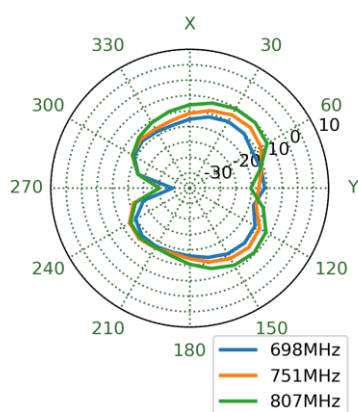
YZ Plane



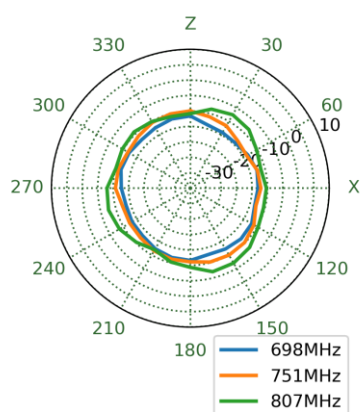
751MHz



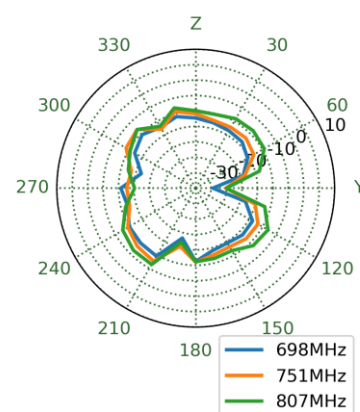
XY Plane



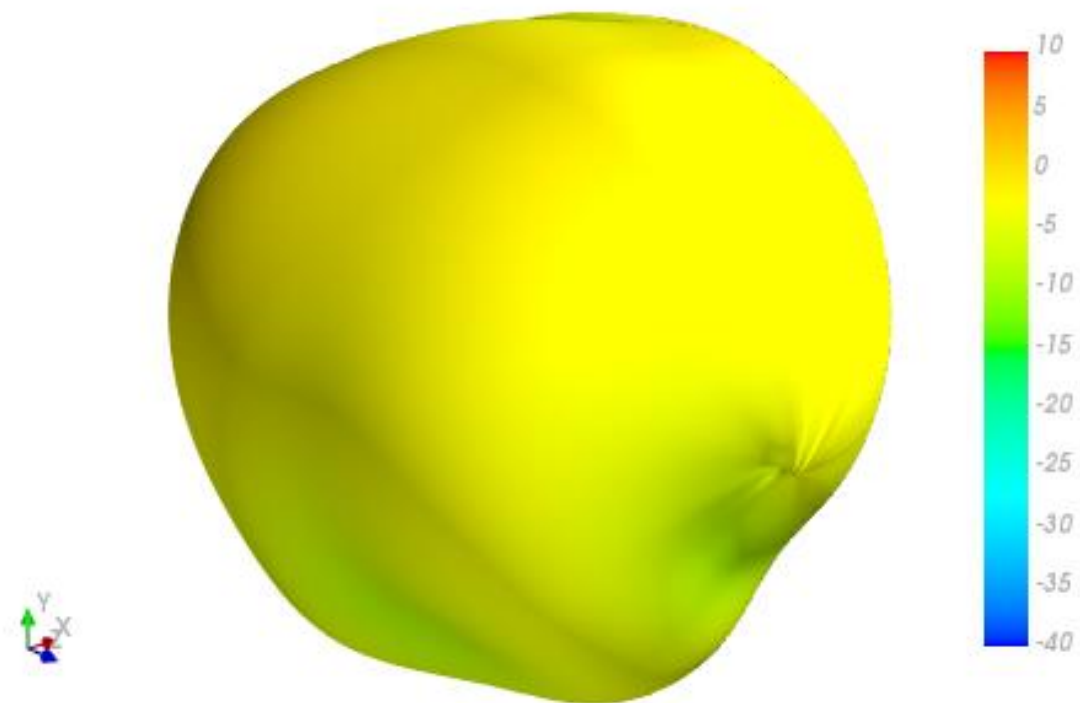
XZ Plane



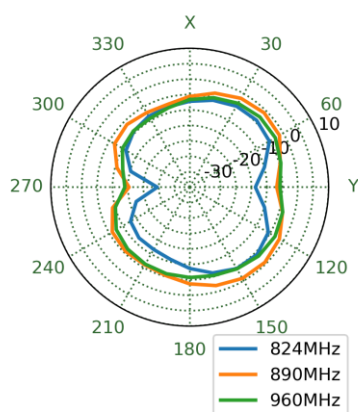
YZ Plane



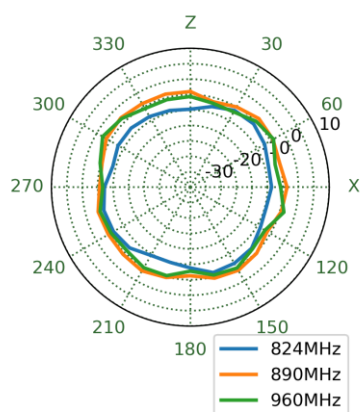
890MHz



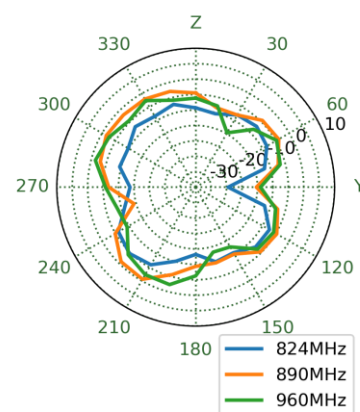
XY Plane



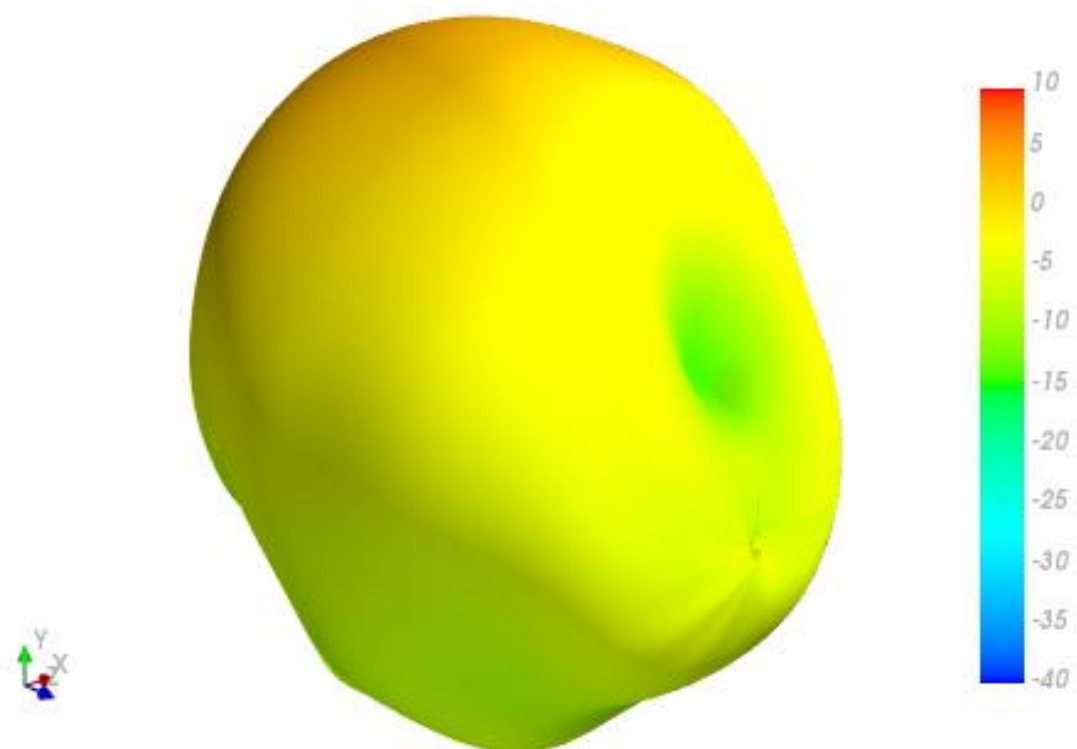
XZ Plane



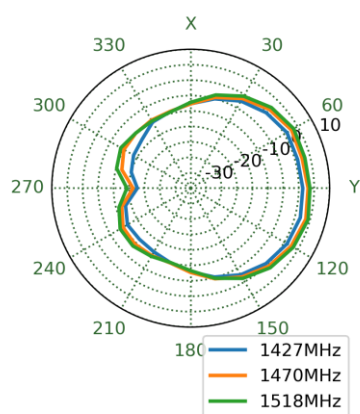
YZ Plane



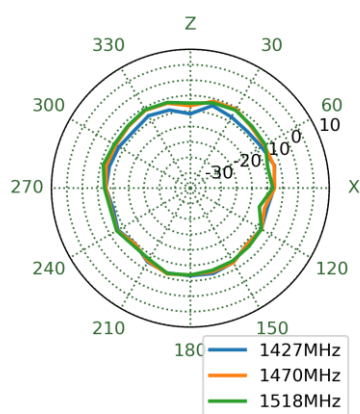
1470MHz



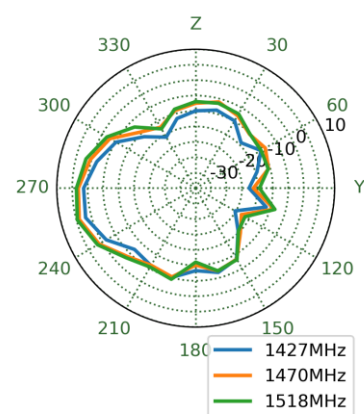
XY Plane



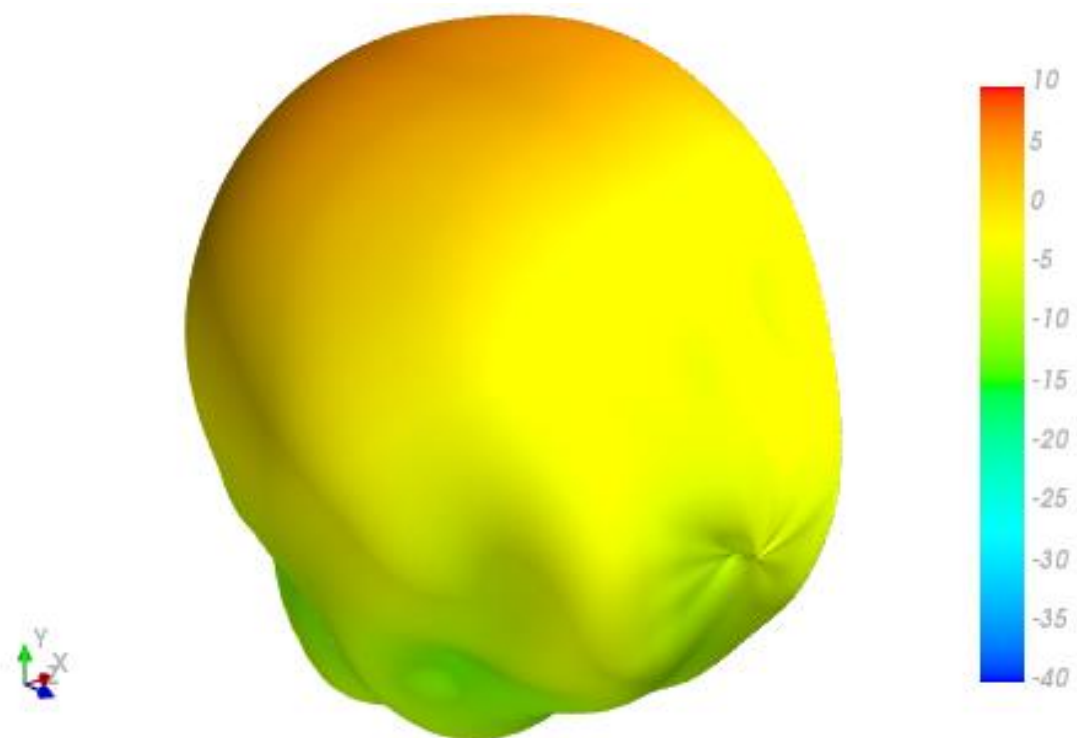
XZ Plane



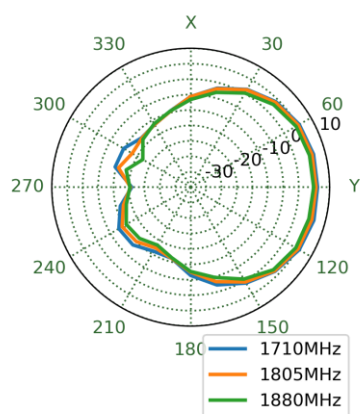
YZ Plane



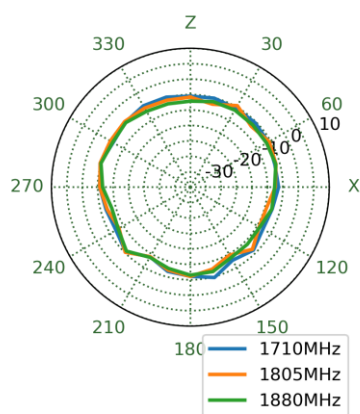
1805MHz



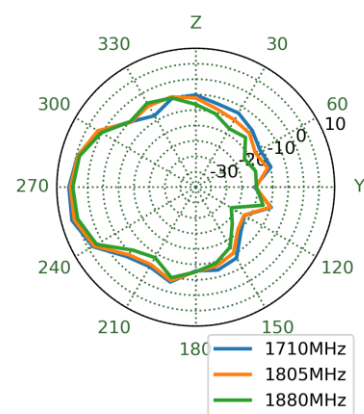
XY Plane



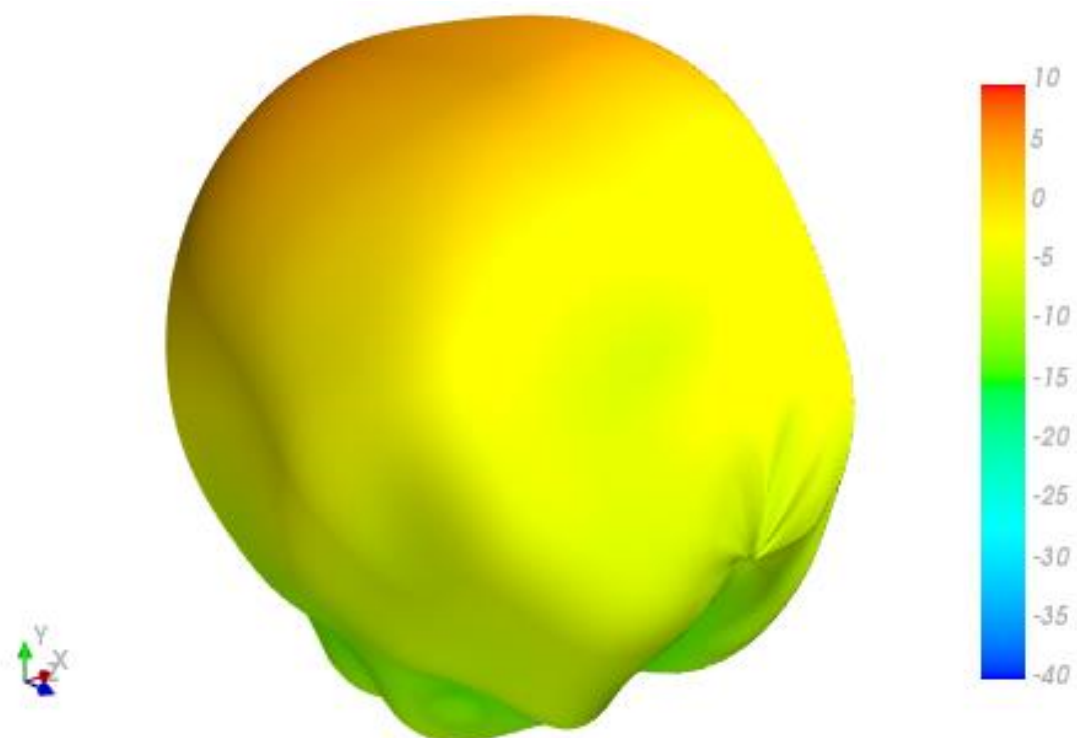
XZ Plane



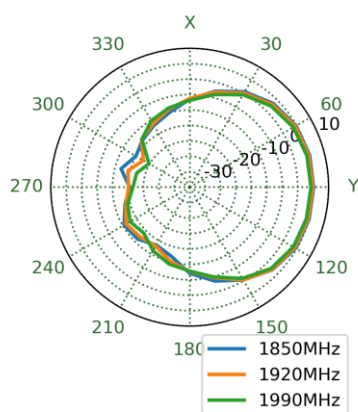
YZ Plane



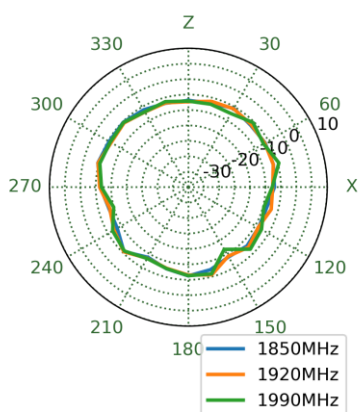
1920MHz



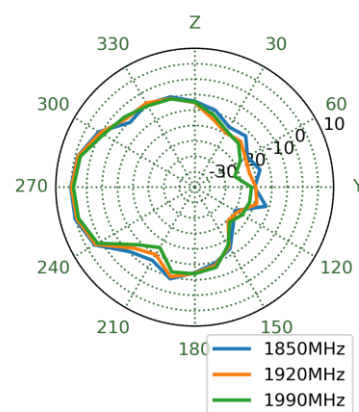
XY Plane



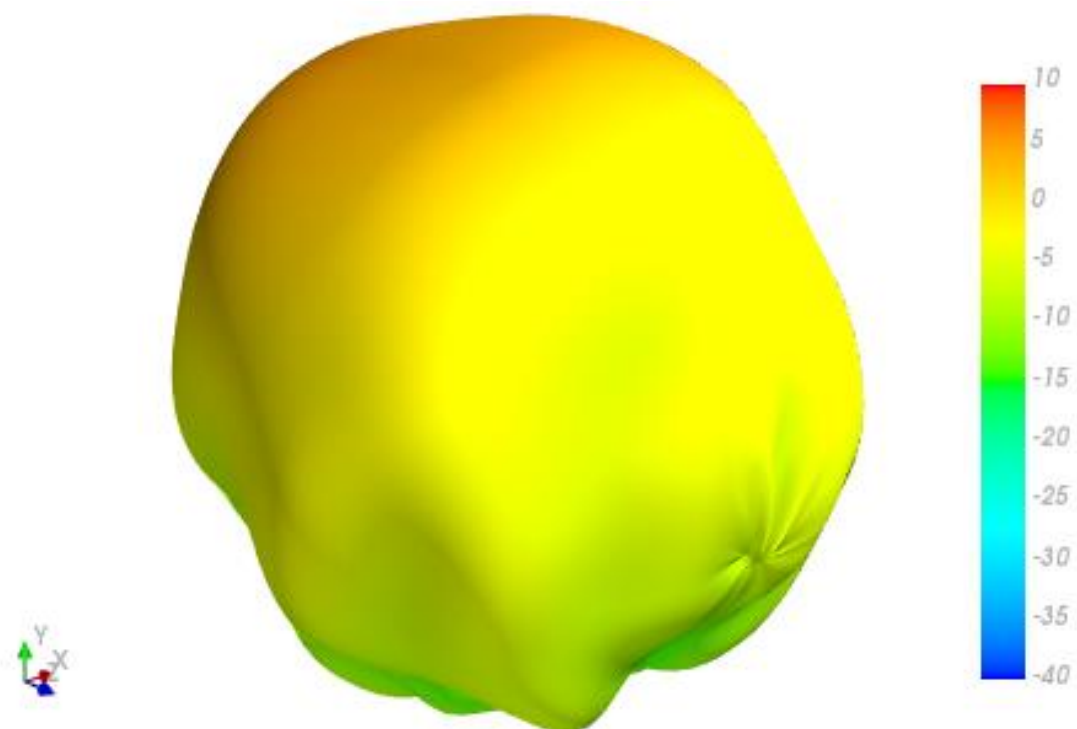
XZ Plane



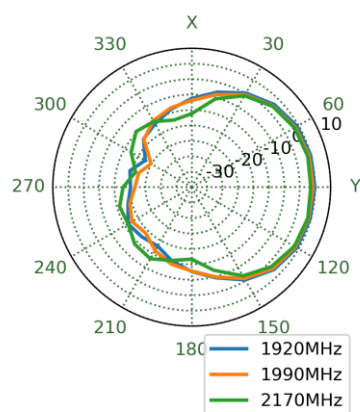
YZ Plane



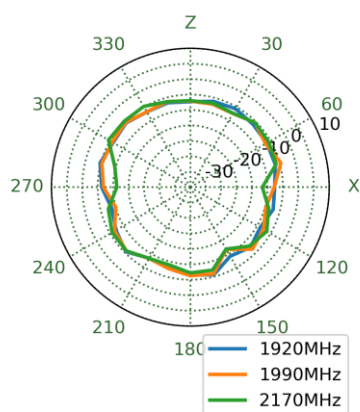
1990MHz



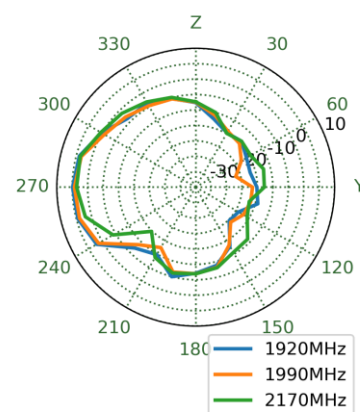
XY Plane



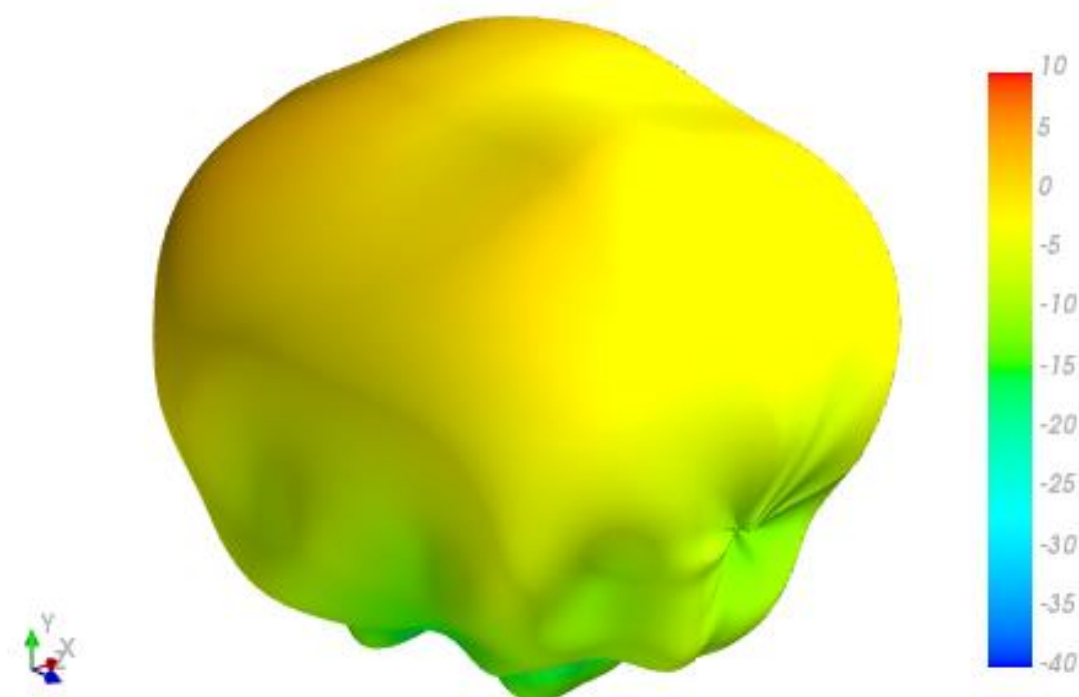
XZ Plane



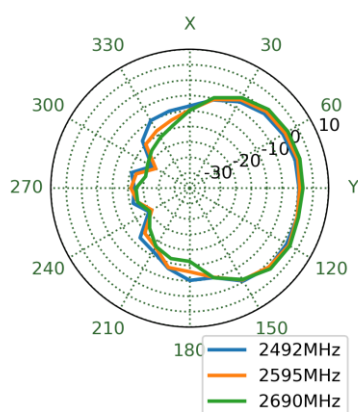
YZ Plane



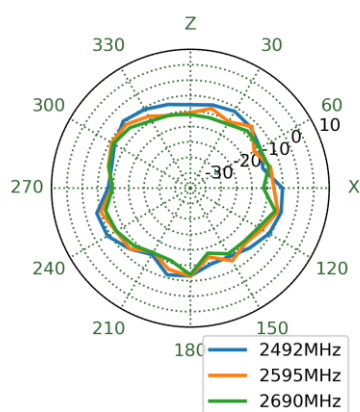
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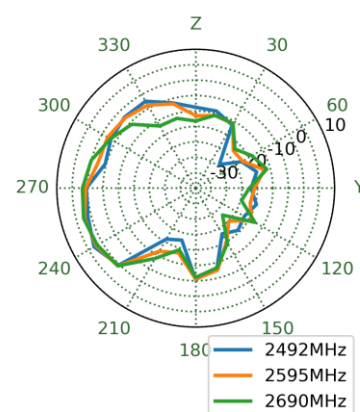
XY Plane



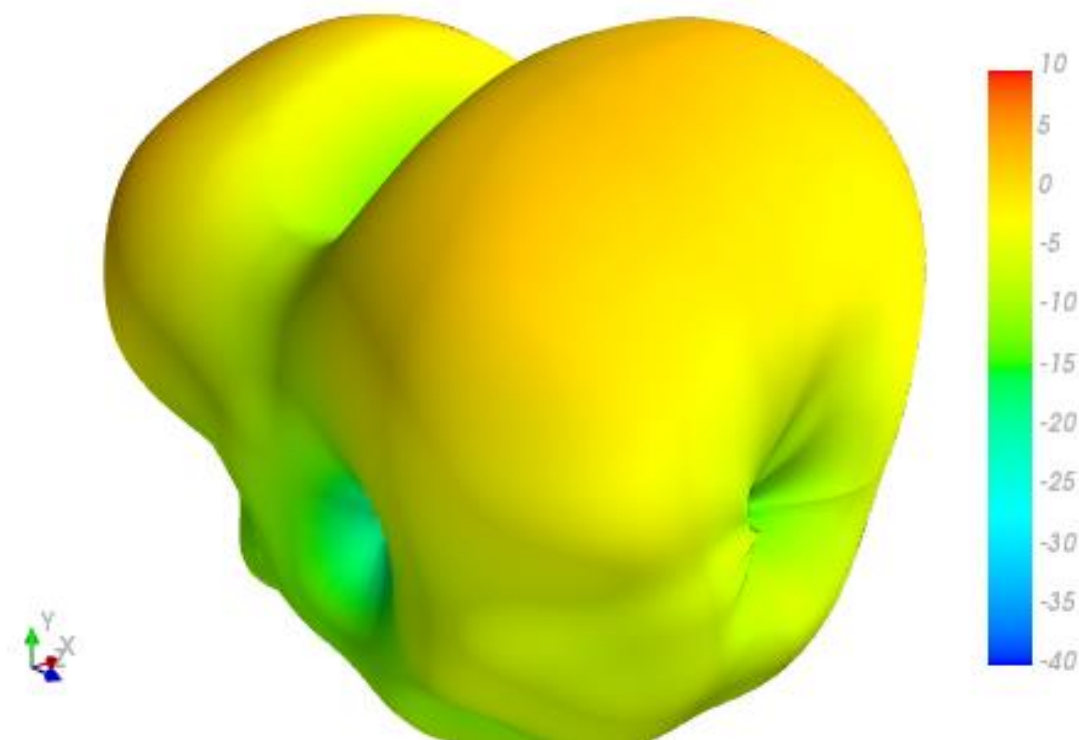
XZ Plane



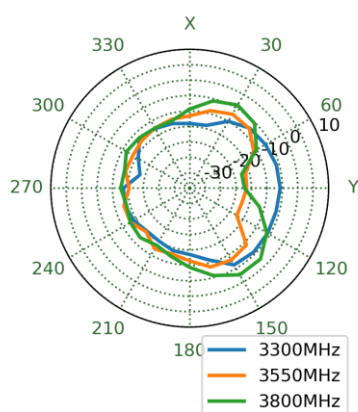
YZ Plane



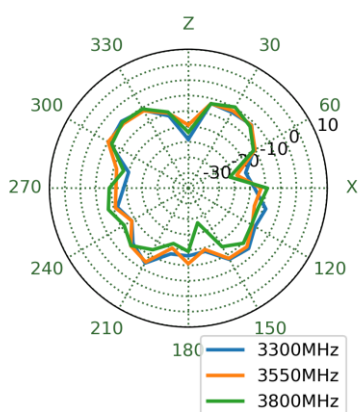
3550MHz



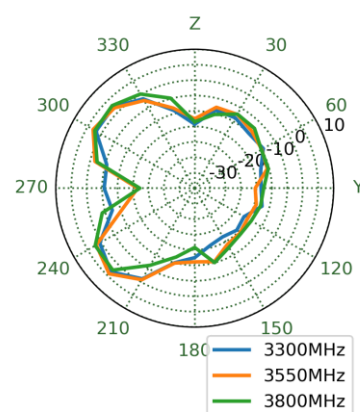
XY Plane



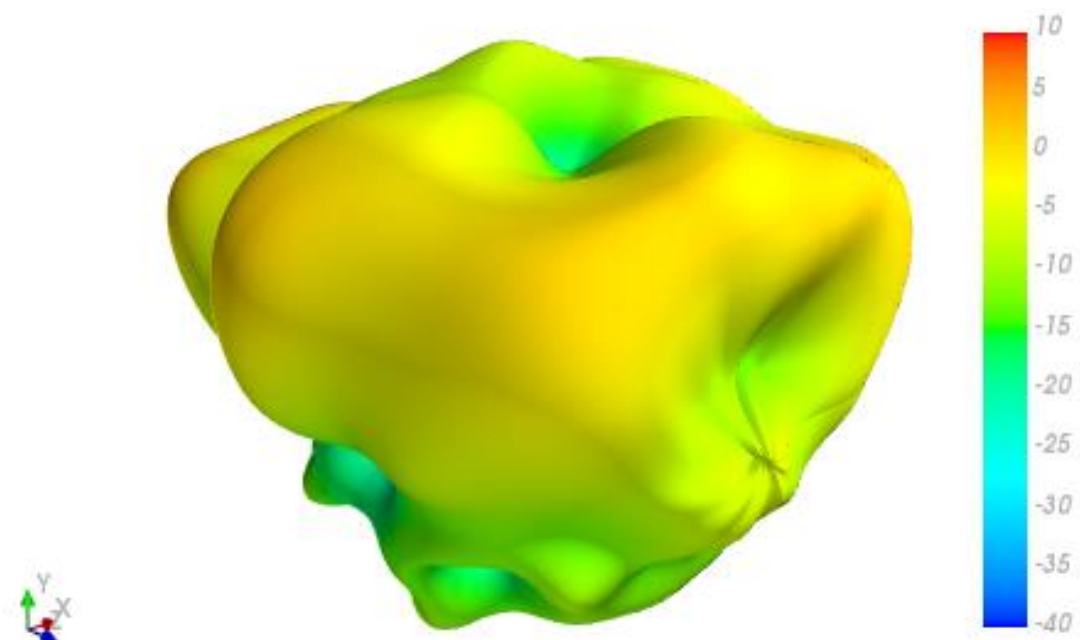
XZ Plane



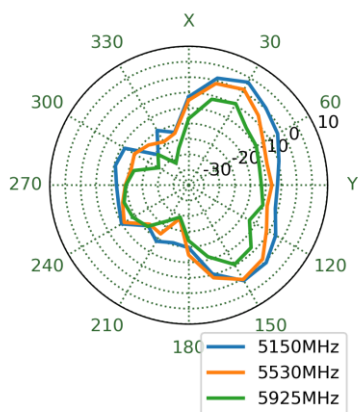
YZ Plane



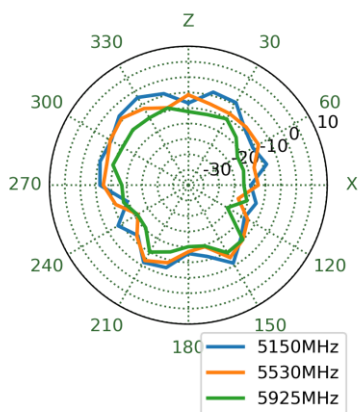
5530MHz



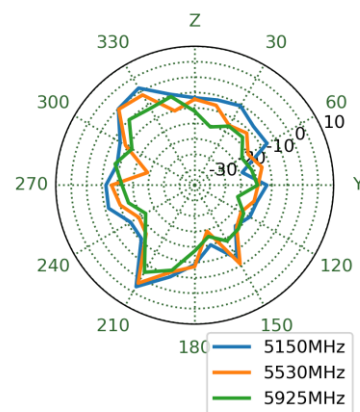
XY Plane



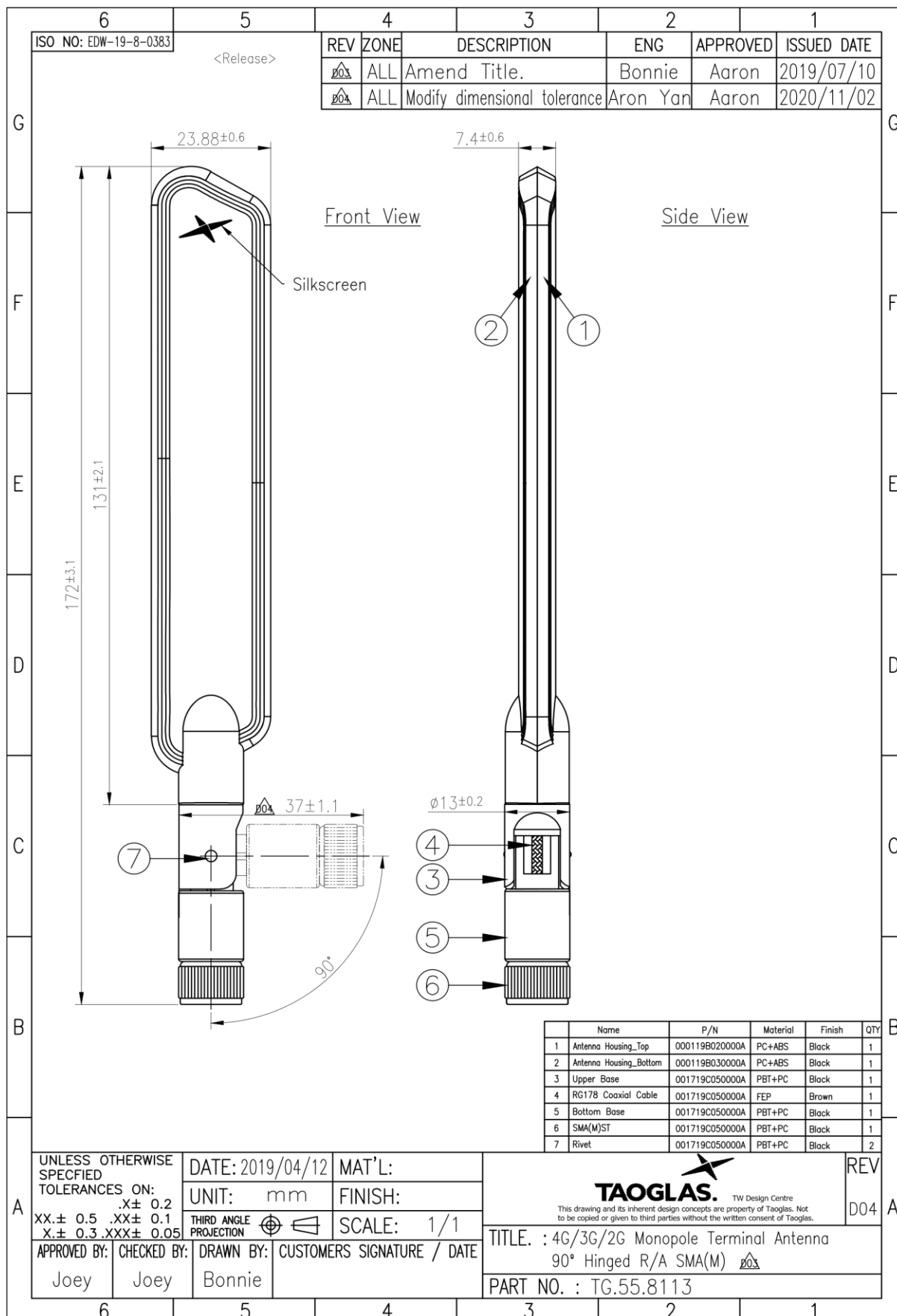
XZ Plane



YZ Plane

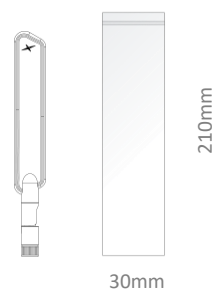


5. Mechanical Drawing (Units: mm)



6. Packaging

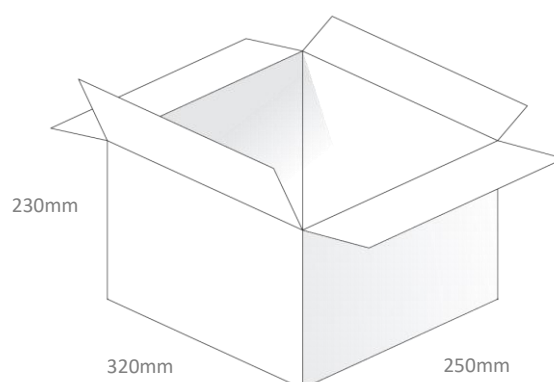
1pc TG.55.8113 per Small PE Bag
Dimensions: 30*210mm
Weight: 31g



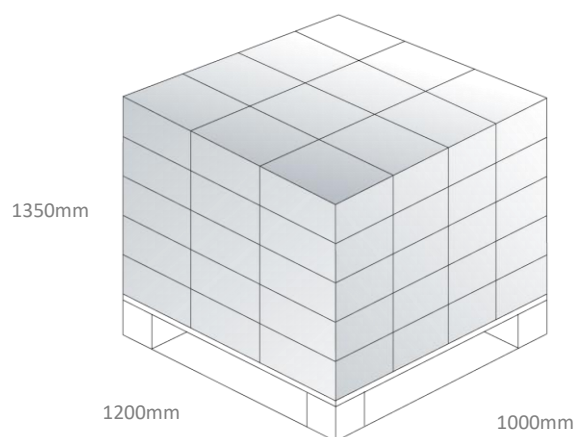
20pcs per Large PE Bag
Dimensions: 180*265mm
Weight: 620g



400pcs TG.55.8113 per Carton
Carton Dimensions: 320*250*230mm
Weight: 13Kg

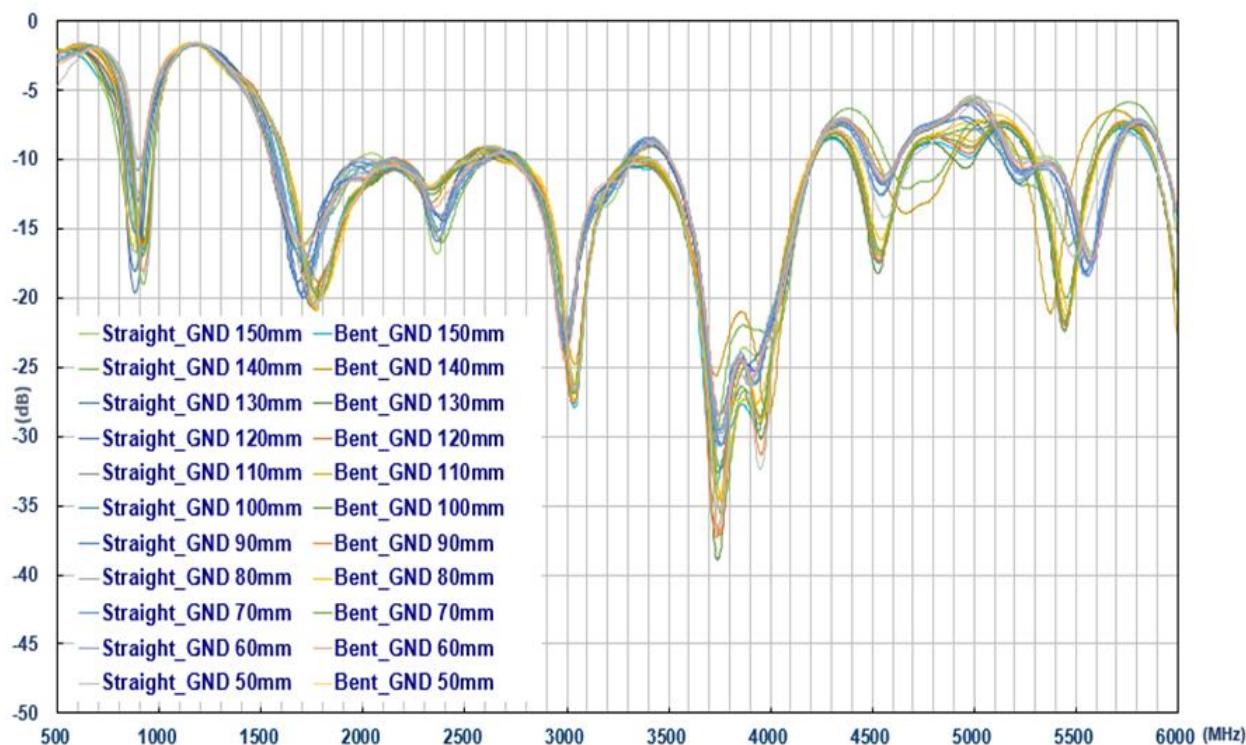


Pallet Dimensions:
1200*1000*1350mm
60 Cartons per Pallet
12 Cartons per layer, 5 Layers

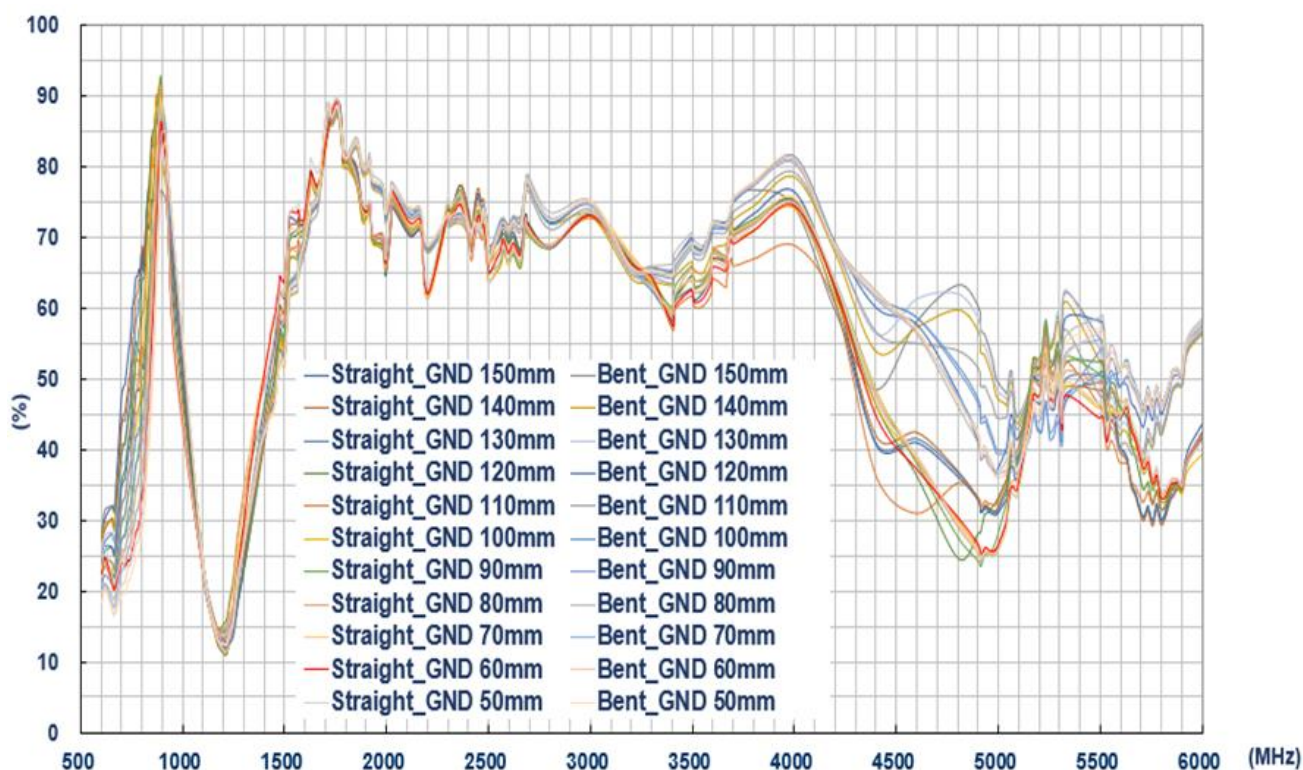


7. Application Note

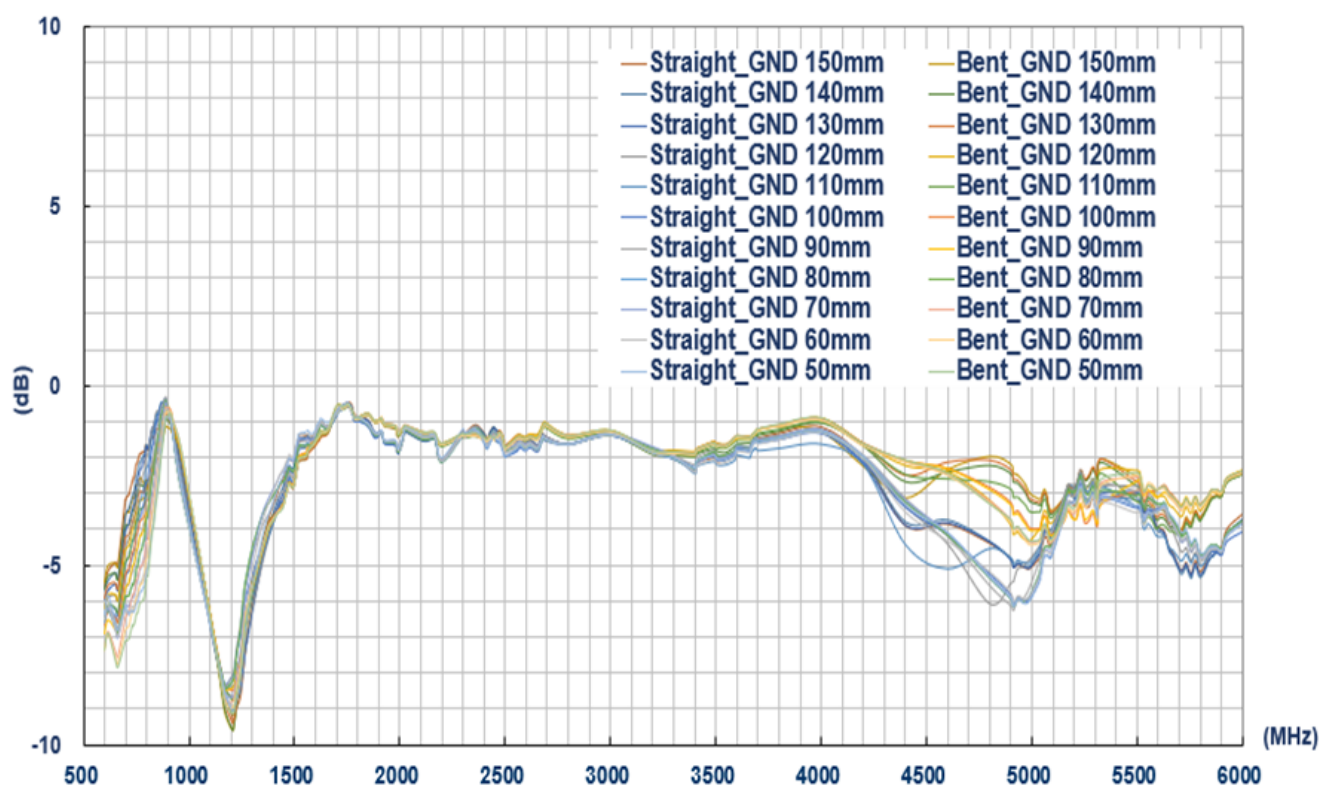
3.1 Return Loss



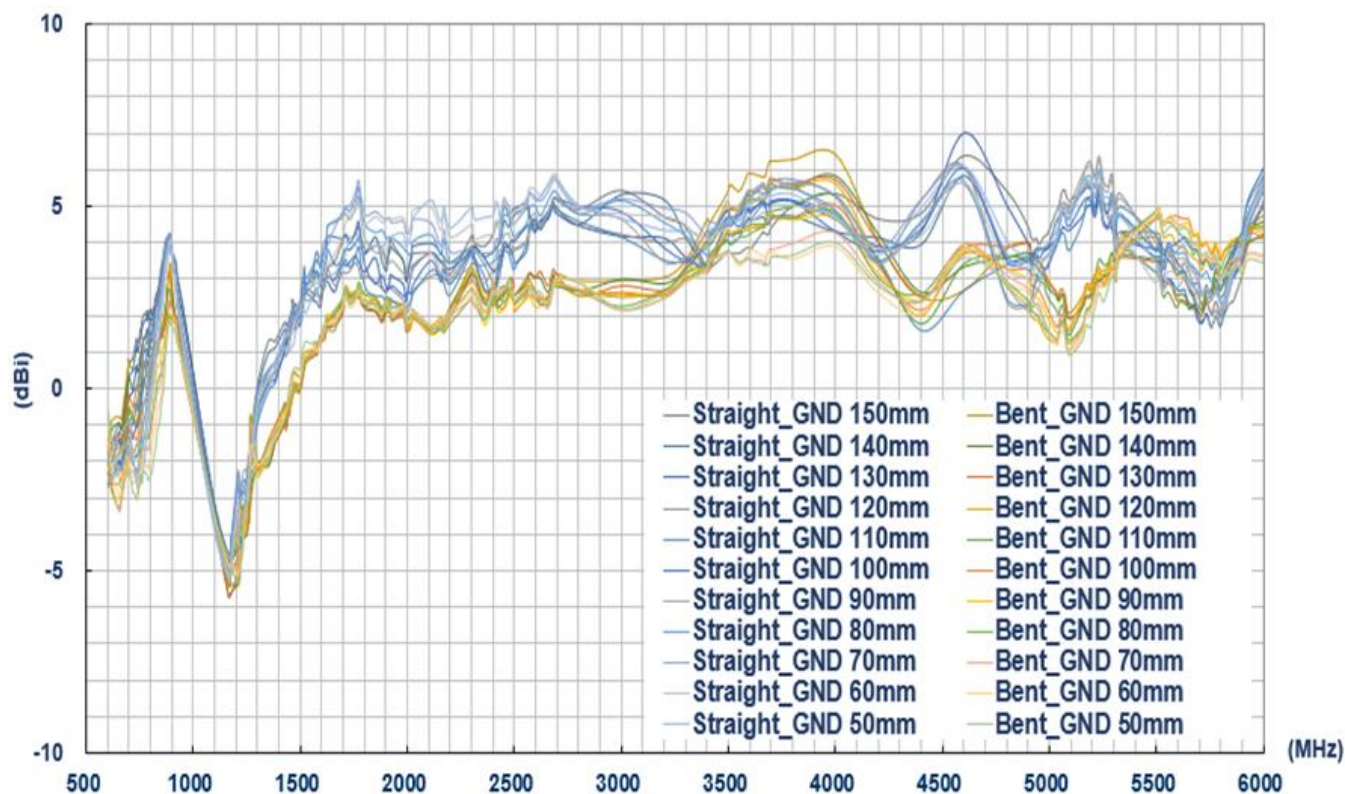
3.2 Efficiency



3.3 Average Gain



3.4 Peak Gain



Changelog for the datasheet

SPE-19-8-061 – TG.55.8113

Revision: D (Current Version)

Date:	2020-11-10
Changes:	Updated drawing
Changes Made by:	Jack Conroy

Previous Revisions

Revision: C

Date:	2019-10-16
Changes:	Updated data to include new ground planes
Changes Made by:	Jack Conroy

Revision: B

Date:	2019-08-29
Changes:	Updated description
Changes Made by:	David Connolly

Revision: A (Initial Launch)

Date:	2019-05-22
Changes:	Initial Specification Release
Changes Made by:	Jack Conroy



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