



Apex White Right Angle TG.30

Part No: TG.30.8112W

Features:

600-6000MHz

Covers 5G/4G Bands

Typical 50%+ Efficiency and 3dBi+ Peak Gain

Dipole Terminal Antenna

90° termination with SMA(M) Connector

RoHS and REACH Compliant



1.	Introduction	2
2.	Specification	3
3.	Antenna Characteristics	6
4.	Radiation Patterns	9
5.	Mechanical Drawing	43
6.	Packaging	44
	Changelog	45

Taoglas makes no warranties based on the accuracy or completeness of the contents of this document and reserves the right to make changes to specifications and product descriptions at any time without notice. Taoglas reserves all rights to this document and the information contained herein. Reproduction, use or disclosure to third parties without express permission is strictly prohibited.











1. Introduction



The Apex TG.30 is a Wideband Dipole 5G/4G Antenna – is primarily designed for use with 5G/4G modules, routers and devices that require the highest possible efficiency and peak gain to deliver best in class throughput on all major cellular bands worldwide between 600MHz and 6GHz.

This fixed 90 degree, connector mount, dipole antenna is primarily designed for use with 5G/4G modules and devices that require the highest possible efficiency and peak gain in order to deliver best-in-class throughput.

Typical Applications include:

- Routers and Gateways
- Access Points
- Remote Monitoring

With very high efficiency on every cellular band globally it is an ideal solution for any device requiring high, reliable performance. It is also guaranteed to meet any type approval or carrier certification requirements from a RF standpoint.

This patented antenna is available in White and Black versions. It is also available with swivel 90 degrees and straight connectors.

For further information please contact your regional Taoglas customer support team.



2. Specification

				Electric	al				
Band	Frequency (MHz)	Measurement	Efficiency (%)	Average Gain (dB)	Peak Gain (dBi)	Impedance	Polarization	Radiation Pattern	Max. input power
5GNR/4G Band		30X30cm Ground plane (Centre)	18.8	-7.26	1.40				
5,8,12,13,14,17,	617-960	In Free Space	58.5	-2.33	2.58				
18,20,26,27,28, 29,71		30X30cm Ground plane (Edge)	54.5	-2.64	2.77				
5GNR/4G		30X30cm Ground plane (Centre)	66.3	-1.79	7.25				
Band	1427-1518	In Free Space	50.4	-2.98	5.64				
21,32,74,75,76		30X30cm Ground plane (Edge)	67.0	-1.74	2.49				
4G/3G		30X30cm Ground plane (Centre)	62.8	-2.02	7.79				
Band 1,2,3,4,9,23,25,	1710-2200	In Free Space	82.7	-0.82	4.29			Omni 2'	
35,39,66		30X30cm Ground plane (Edge)	68.7	-1.63	2.99				
	2300-2400	30X30cm Ground plane (Centre)	42.3	-3.73	4.59	50 Ω			
4G/3G Band 40		In Free Space	81.7	-0.88	4.41				
		30X30cm Ground plane (Edge)	68.1	-1.67	3.50				214
	2400-2500	30X30cm Ground plane (Centre)	30.9	-5.10	3.10		Linear		2W
Wi-Fi 2400		100-2500 In Free Space 70.9 -1.49	4.18						
		30X30cm Ground plane (Edge)	64.0	-1.94	3.94				
		30X30cm Ground plane (Centre)	55.4	-2.56	7.06				
4G/3G Band 7,38,41	2490-2690	In Free Space	68.1	-1.67	4.41				
		30X30cm Ground plane (Edge)	49.8	-3.03	4.55				
5GNR/4G	3300-3800	30X30cm Ground plane (Centre)	42.1	-3.76	6.60				
Band 22,42,43,48,77,		In Free Space	42.1	-3.76	3.94				
78		30X30cm Ground plane (Edge)	33.7	-4.72	4.06				
		30X30cm Ground plane (Centre)	34.5	-4.62	7.09				
LTE5200/ Wi-Fi 5800	5150-5925	In Free Space	67.1	-1.73	5.69				
2000		30X30cm Ground plane (Edge)	43.2	-3.65	4.69				



Band Number			5G/AC	Bands		
Lybris	Band Number				PA / HSPA+ / TD-SCDMA	
100 100	Dana Number					30X30cm Ground plane
82 1850 to 3910 1950 1950 1950 1		·				
83						
### 1770 to 1775						
85						
87 2200 to 2510 2501 to 2500						
BB						
1745 10 1745 12 1846 10 1745 2						
Bill 1427 Str. 1447-9 1475 Str. 1454.5 S						
BIL2						
### ### ### ### ### ### ### ### ### ##						
BLIA 778 to 778						
B17 704 to 716 734 6 734 to 26						
B119 830 to 845 875 to 830						
### ### ### ### ### ### ### ### ### ##						
820 882 to 882 79 to 821						
N21						
B22* 3410 to 3490						
B23* 2000 to 2020 2180 to 2200						
B24						
B25 1850 to 1915 1930 to 1995						
B26						
B27+ 807 to 824 857 to 869						
B28						
829 717 to 728					✓	✓
B30 2305 to 2315 2250 to 2360 ✓ ✓ ✓ B31 452.5 to 457.5 ★ ★ ★ B32 1452 to 1496 ✓ ✓ ✓ B34 2010 to 2025 ✓ ✓ ✓ B35 1850 to 1910 ✓ ✓ ✓ B36 1930 to 1990 ✓ ✓ ✓ B37 1910 to 1930 ✓ ✓ ✓ B39 1880 to 1920 ✓ ✓ ✓ B40 2300 to 2400 ✓ ✓ ✓ B41 2496 to 2690 ✓ ✓ ✓ B42 3400 to 3600 ✓ ✓ ✓ B43 3600 to 3800 ✓ ✓ ✓ B45 1447 to 1467 ✓ ✓ ✓ B46 5150 to 5935 ✓ ✓ ✓ B47 5855 to 5925 ✓ ✓ ✓ B48 3550 to 3700 ✓ ✓ ✓ B49 3550 to 3700 ✓ ✓ ✓ B50 1432 to 1517 ✓ ✓ ✓ B51 1472 to 1432 ✓ ✓ ✓ B52 300 to 3400 ✓				*	✓	✓
B31	B30	2305 to 2315	2350 to 2360	✓	✓	✓
B34	B31	452.5 to 457.5	462.5 to 467.5	*	*	*
B35	B32	1452 to	1496	✓	✓	✓
B36	B34	2010 to	2025	✓	✓	✓
B37 1910 to 1930 -	B35	1850 to	1910	✓	✓	✓
B38 2570 to 2620 ✓	B36	1930 to	1990	✓	✓	✓
B39	B37			✓	✓	✓
B40	B38			✓	✓	✓
B41 2496 to 2690 ✓ ✓ ✓ B42 3400 to 3600 ✓ ✓ ✓ B43 3600 to 3800 ✓ ✓ ✓ B45 1447 to 1467 ✓ ✓ ✓ B46 5150 to 5925 ✓ ✓ ✓ B47 5855 to 5925 ✓ ✓ ✓ B48 3550 to 3700 ✓ ✓ ✓ B49 3550 to 3700 ✓ ✓ ✓ B50 1432 to 1517 ✓ ✓ ✓ B51 1427 to 1432 ✓ ✓ ✓ B53 2483.5 to 2495 ✓ ✓ ✓ B65 1920 to 2010 2110 to 2200 ✓ ✓ ✓ B66 1710 to 1780 2110 to 2200 ✓ ✓ ✓ ✓ B66 1710 to 1780 2110 to 2200 ✓ ✓ ✓ ✓ ✓ B68 698 to 728 753 to 783 X ✓ ✓ ✓ ✓ B71 663 to 698 617 to 652	B39	1880 to	1920	✓	✓	✓
B42 3400 to 3600	B40	2300 to	2400	✓	✓	✓
B43	B41	2496 to	2690	✓	✓	✓
B45 1447 to 1467 ✓ ✓ ✓ B46 5150 to 5925 ✓ ✓ ✓ B47 5855 to 5925 ✓ ✓ ✓ B48 3550 to 3700 ✓ ✓ ✓ B49 3550 to 3700 ✓ ✓ ✓ B50 1432 to 1517 ✓ ✓ ✓ B51 1427 to 1432 ✓ ✓ ✓ B52 3300 to 3400 × ✓ ✓ B53 2483.5 to 2495 ✓ ✓ ✓ B65 1920 to 2010 2110 to 2200 ✓ ✓ ✓ B66 1710 to 1780 2110 to 2200 ✓ ✓ ✓ B68 698 to 728 753 to 783 × ✓ ✓ B70 1695 to 1710 1995 to 2020 ✓ ✓ ✓ B70 1695 to 1710 1995 to 2020 ✓ ✓ ✓ B72 451 to 456 461 to 466 × × × × B73 450 to 455 460 to 465 ×	B42	3400 to	3600	✓	✓	✓
846 5150 to 5925 ✓ ✓ ✓ 847 5855 to 5925 ✓ ✓ ✓ 848 3550 to 3700 ✓ ✓ ✓ 849 3550 to 3700 ✓ ✓ ✓ 850 1432 to 1517 ✓ ✓ ✓ 851 1427 to 1432 ✓ ✓ ✓ 852 3300 to 3400 X ✓ ✓ 853 2483.5 to 2495 ✓ ✓ ✓ 865 1920 to 2010 2110 to 2200 ✓ ✓ ✓ 866 1710 to 1780 2110 to 2200 ✓ ✓ ✓ ✓ 868 698 to 728 753 to 783 X ✓ ✓ ✓ ✓ 869 2570 to 2620 ✓ <td>B43</td> <td>3600 to</td> <td>3800</td> <td>✓</td> <td>✓</td> <td>✓</td>	B43	3600 to	3800	✓	✓	✓
B47 5855 to 5925 ✓ ✓ ✓ B48 3550 to 3700 ✓ ✓ ✓ B49 3550 to 3700 ✓ ✓ ✓ B50 1432 to 1517 ✓ ✓ ✓ B51 1427 to 1432 ✓ ✓ ✓ B52 3300 to 3400 * ✓ ✓ B63 2483.5 to 2495 ✓ ✓ ✓ B65 1920 to 2010 2110 to 2200 ✓ ✓ ✓ B66 1710 to 1780 2110 to 2200 ✓ ✓ ✓ B68 698 to 728 753 to 783 * ✓ ✓ B69 2570 to 2620 ✓ ✓ ✓ ✓ B70 1695 to 1710 1995 to 2020 ✓ ✓ ✓ ✓ B71 663 to 698 617 to 652 * ✓ ✓ X B72 451 to 456 461 to 466 * X X X B73 450 to 455 460 to 465 X X X B75	B45	1447 to	1467	✓	✓	✓
B48 3550 to 3700 ✓ ✓ ✓ B49 3550 to 3700 ✓ ✓ ✓ B50 1432 to 1517 ✓ ✓ ✓ B51 1427 to 1432 ✓ ✓ ✓ B52 3300 to 3400 & ✓ ✓ B63 1920 to 2010 2110 to 2200 ✓ ✓ ✓ B66 1710 to 1780 2110 to 2200 ✓ ✓ ✓ B68 698 to 728 753 to 783 X ✓ ✓ B69 2570 to 2620 ✓ ✓ ✓ ✓ B70 1695 to 1710 1995 to 2020 ✓ ✓ ✓ ✓ B71 663 to 698 617 to 652 X ✓ ✓ X B72 451 to 456 461 to 466 X X X B73 450 to 455 460 to 465 X X X B74 1427 to 1432 ✓ ✓ ✓ ✓ B75 1432 to 1517 ✓ ✓ ✓ ✓ ✓ <td>B46</td> <td>5150 to</td> <td>5925</td> <td>✓</td> <td>✓</td> <td>✓</td>	B46	5150 to	5925	✓	✓	✓
B49 3550 to 3700 ✓ ✓ ✓ B50 1432 to 1517 ✓ ✓ ✓ B51 1427 to 1432 ✓ ✓ ✓ B52 3300 to 3400 × ✓ ✓ B63 1920 to 2010 2110 to 2200 ✓ ✓ ✓ B65 1920 to 2010 2110 to 2200 ✓ ✓ ✓ B66 1710 to 1780 2110 to 2200 ✓ ✓ ✓ B68 698 to 728 753 to 783 × ✓ ✓ B69 2570 to 2620 ✓ ✓ ✓ ✓ B70 1695 to 1710 1995 to 2020 ✓ ✓ ✓ ✓ B71 663 to 698 617 to 652 × ✓ × × × B72 451 to 456 461 to 466 × × × × × B73 450 to 455 460 to 465 × × × × × B75 1432 to 1517 ✓ ✓ ✓ ✓ ✓ ✓ ✓	B47	5855 to	5925		✓	✓
850 1432 to 1517 ✓ ✓ ✓ 851 1427 to 1432 ✓ ✓ ✓ 852 3300 to 3400 X ✓ X 853 2483.5 to 2495 ✓ ✓ ✓ 865 1920 to 2010 2110 to 2200 ✓ ✓ ✓ 866 1710 to 1780 2110 to 2200 ✓ ✓ ✓ ✓ 868 698 to 728 753 to 783 X ✓ ✓ ✓ 869 2570 to 2620 ✓ ✓ ✓ ✓ ✓ 870 1695 to 1710 1995 to 2020 ✓ ✓ ✓ ✓ ✓ 871 663 to 698 617 to 652 X ✓ X X 872 451 to 456 461 to 466 X X X 873 450 to 455 460 to 465 X X X 875 1432 to 1517 ✓ ✓ ✓ ✓ 876 1427 to 1432 ✓ ✓ ✓ ✓ 877 3300 to 3800	B48	3550 to	3700	✓	✓	✓
B51 1427 to 1432 ✓ ✓ ✓ B52 3300 to 3400 × ✓ ✓ B53 2483.5 to 2495 ✓ ✓ ✓ B65 1920 to 2010 2110 to 2200 ✓ ✓ ✓ B66 1710 to 1780 2110 to 2200 ✓ ✓ ✓ B68 698 to 728 753 to 783 × ✓ ✓ B69 2570 to 2620 ✓ ✓ ✓ ✓ B70 1695 to 1710 1995 to 2020 ✓ ✓ ✓ ✓ B71 663 to 698 617 to 652 × ✓ ✓ ✓ ✓ B72 451 to 456 461 to 466 × × × × × B73 450 to 455 460 to 465 × × × × × B75 1432 to 1517 ✓ ✓ ✓ ✓ ✓ B76 1427 to 1432 ✓ ✓ ✓ ✓ ✓ ✓ B77 3300 to 200 ✓ ✓ ✓	B49	3550 to	3700		✓	✓
B52 3300 to 3400 x ✓ x B53 2483.5 to 2495 ✓ ✓ ✓ B65 1920 to 2010 2110 to 2200 ✓ ✓ ✓ B66 1710 to 1780 2110 to 2200 ✓ ✓ ✓ B68 698 to 728 753 to 783 x ✓ ✓ B69 2570 to 2620 ✓ ✓ ✓ ✓ B70 1695 to 1710 1995 to 2020 ✓ ✓ ✓ ✓ B71 663 to 698 617 to 652 x ✓ ✓ X B72 451 to 456 461 to 466 x x x X B73 450 to 455 460 to 465 x x x X B74 1427 to 1470 1475 to 1518 ✓ ✓ ✓ ✓ B75 1432 to 1517 ✓ ✓ ✓ ✓ ✓ B76 1427 to 1432 ✓ ✓ ✓ ✓ ✓ B77 3300 to 3800 ✓ ✓ ✓ ✓ <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
B53 2483.5 to 2495 ✓ ✓ ✓ ✓ B65 1920 to 2010 2110 to 2200 ✓ ✓ ✓ ✓ B66 1710 to 1780 2110 to 2200 ✓ ✓ ✓ ✓ B68 698 to 728 753 to 783 * ✓ ✓ ✓ B69 2570 to 2620 ✓ ✓ ✓ ✓ ✓ B70 1695 to 1710 1995 to 2020 ✓ ✓ ✓ ✓ ✓ B71 663 to 698 617 to 652 * ✓ ✓ *						
B65 1920 to 2010 2110 to 2200 ✓ ✓ ✓ B66 1710 to 1780 2110 to 2200 ✓ ✓ ✓ B68 698 to 728 753 to 783 × ✓ ✓ B69 2570 to 2620 ✓ ✓ ✓ ✓ B70 1695 to 1710 1995 to 2020 ✓ ✓ ✓ ✓ B71 663 to 698 617 to 652 × ✓ ✓ × B72 451 to 456 461 to 466 × × × × B73 450 to 455 460 to 465 × × × × B74 1427 to 1470 1475 to 1518 ✓ ✓ ✓ ✓ B75 1432 to 1517 ✓ ✓ ✓ ✓ ✓ B76 1427 to 1432 ✓ ✓ ✓ ✓ ✓ B77 3300 to 4200 ✓ ✓ ✓ ✓ ✓ B78 3300 to 3800 ✓ ✓ ✓ ✓ ✓ B85 698 to 716 728						
866 1710 to 1780 2110 to 2200 ✓ ✓ ✓ 868 698 to 728 753 to 783 × ✓ ✓ 869 2570 to 2620 ✓ ✓ ✓ ✓ 870 1695 to 1710 1995 to 2020 ✓ ✓ ✓ ✓ 871 663 to 698 617 to 652 × ✓ × 872 451 to 456 461 to 466 × × × 873 450 to 455 460 to 465 × × × 874 1427 to 1470 1475 to 1518 ✓ ✓ ✓ 875 1432 to 1517 ✓ ✓ ✓ 876 1427 to 1432 ✓ ✓ ✓ 877 3300 to 4200 ✓ ✓ ✓ 878 3300 to 3800 ✓ ✓ ✓ 879 4400 to 5000 ✓ ✓ ✓ 885 698 to 716 728 to 746 × ✓ 887 410 to 415 420 to 425 × ×						
B68 698 to 728 753 to 783 * ✓ ✓ B69 2570 to 2620 ✓ ✓ ✓ B70 1695 to 1710 1995 to 2020 ✓ ✓ ✓ B71 663 to 698 617 to 652 * ✓ ✓ B72 451 to 456 461 to 466 * * * * B73 450 to 455 460 to 465 * * * * * B74 1427 to 1470 1475 to 1518 ✓ ✓ ✓ ✓ B75 1432 to 1517 ✓ ✓ ✓ ✓ B76 1427 to 1432 ✓ ✓ ✓ ✓ B77 3300 to 4200 ✓ ✓ ✓ ✓ B78 3300 to 3800 ✓ ✓ ✓ ✓ B79 4400 to 5000 ✓ ✓ ✓ ✓ B85 698 to 716 728 to 746 * ✓ ✓ ✓ B87 410 to 415 420 to 425 * * * * *						
869 2570 to 2620 ✓ ✓ ✓ 870 1695 to 1710 1995 to 2020 ✓ ✓ ✓ 871 663 to 698 617 to 652 × ✓ × 872 451 to 456 461 to 466 × × × 873 450 to 455 460 to 465 × × × 874 1427 to 1470 1475 to 1518 ✓ ✓ ✓ ✓ 875 1432 to 1517 ✓ ✓ ✓ ✓ 876 1427 to 1432 ✓ ✓ ✓ ✓ 877 3300 to 4200 ✓ ✓ ✓ ✓ 878 3300 to 3800 ✓ ✓ ✓ ✓ 879 4400 to 5000 ✓ ✓ ✓ ✓ 885 698 to 716 728 to 746 × × × × 887 410 to 415 420 to 425 × × × ×						
870 1695 to 1710 1995 to 2020 ✓ ✓ ✓ 871 663 to 698 617 to 652 x ✓ x 872 451 to 456 461 to 466 x x x 873 450 to 455 460 to 465 x x x 874 1427 to 1470 1475 to 1518 ✓ ✓ ✓ ✓ 875 1432 to 1517 ✓ ✓ ✓ ✓ ✓ 876 1427 to 1432 ✓ ✓ ✓ ✓ ✓ 877 3300 to 4200 ✓ ✓ ✓ ✓ 878 3300 to 3800 ✓ ✓ ✓ ✓ 879 4400 to 5000 ✓ ✓ ✓ ✓ 885 698 to 716 728 to 746 X ✓ ✓ 887 410 to 415 420 to 425 X X X						
B71 663 to 698 617 to 652 X ✓ X B72 451 to 456 461 to 466 X X X B73 450 to 455 460 to 465 X X X B74 1427 to 1470 1475 to 1518 ✓ ✓ ✓ ✓ B75 1432 to 1517 ✓ ✓ ✓ ✓ ✓ B76 1427 to 1432 ✓ ✓ ✓ ✓ ✓ ✓ B77 3300 to 4200 ✓ ✓ ✓ ✓ ✓ ✓ B78 3300 to 3800 ✓ ✓ ✓ ✓ ✓ B79 4400 to 5000 ✓ ✓ ✓ ✓ B85 698 to 716 728 to 746 X ✓ ✓ B87 410 to 415 420 to 425 X X X						
B72 451 to 456 461 to 466 * * * B73 450 to 455 460 to 465 * * * B74 1427 to 1470 1475 to 1518 * * * B75 1432 to 1517 * * * * B76 1427 to 1432 * * * * B77 3300 to 4200 * * * * B78 3300 to 3800 * * * * B79 4400 to 5000 * * * * B85 698 to 716 728 to 746 * * * B87 410 to 415 420 to 425 * * *						
B73 450 to 455 460 to 465 * * * B74 1427 to 1470 1475 to 1518 - - - B75 1432 to 1517 - - - - B76 1427 to 1432 - - - - B77 3300 to 4200 - - - - - B78 3300 to 3800 - - - - - B79 4400 to 5000 - - - - - B85 698 to 716 728 to 746 * - - - B87 410 to 415 420 to 425 * * * *						
B74 1427 to 1470 1475 to 1518 ✓ ✓ B75 1432 to 1517 ✓ ✓ B76 1427 to 1432 ✓ ✓ B77 3300 to 4200 ✓ ✓ B78 3300 to 3800 ✓ ✓ B79 4400 to 5000 ✓ ✓ B85 698 to 716 728 to 746 X ✓ B87 410 to 415 420 to 425 X X						
B75 1432 to 1517 ✓ ✓ ✓ B76 1427 to 1432 ✓ ✓ ✓ B77 3300 to 4200 ✓ ✓ ✓ B78 3300 to 3800 ✓ ✓ ✓ B79 4400 to 5000 ✓ ✓ ✓ B85 698 to 716 728 to 746 X ✓ ✓ B87 410 to 415 420 to 425 X X X						
B76 1427 to 1432 ✓ ✓ ✓ B77 3300 to 4200 ✓ ✓ ✓ B78 3300 to 3800 ✓ ✓ ✓ B79 4400 to 5000 ✓ ✓ ✓ B85 698 to 716 728 to 746 ✗ ✓ ✓ B87 410 to 415 420 to 425 ✗ ✗ ✗						
B77 3300 to 4200 ✓ ✓ ✓ B78 3300 to 3800 ✓ ✓ ✓ B79 4400 to 5000 ✓ ✓ ✓ B85 698 to 716 728 to 746 ✗ ✓ ✓ B87 410 to 415 420 to 425 ✗ ✗ ✗						_
B78 3300 to 3800						
B79 4400 to 5000 ✓ ✓ ✓ B85 698 to 716 728 to 746 ★ ✓ ✓ B87 410 to 415 420 to 425 ★ ★ ★						
B85 698 to 716 728 to 746 ★ ✓ ✓ B87 410 to 415 420 to 425 ★ ★ ★						
B87 410 to 415 420 to 425 * *						
MXX //1/ to /// / /// // ***	B88	410 to 415 412 to 417	420 to 423 422 to 427	*	*	



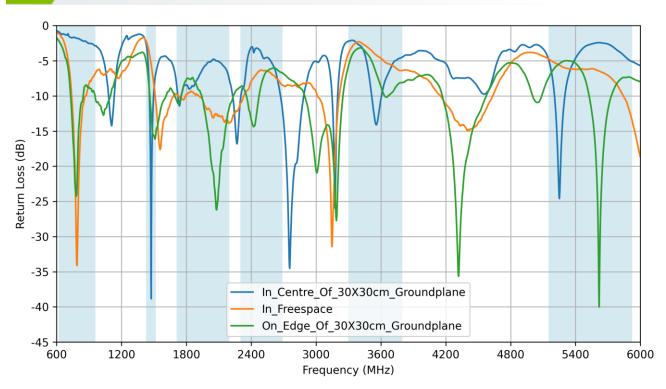
Mechanical					
Casing	UV Resistant PC/ABS				
Flammability Rating	UL-94				
Connector	SMA Male				

Environmental				
Temperature Range	-40°C to 85°C			
Humidity	Non-condensing 65°C 95% RH			

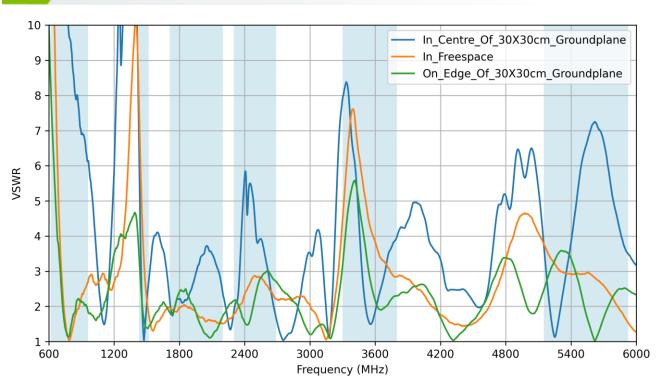


3. Antenna Characteristics

3.1 Return Loss

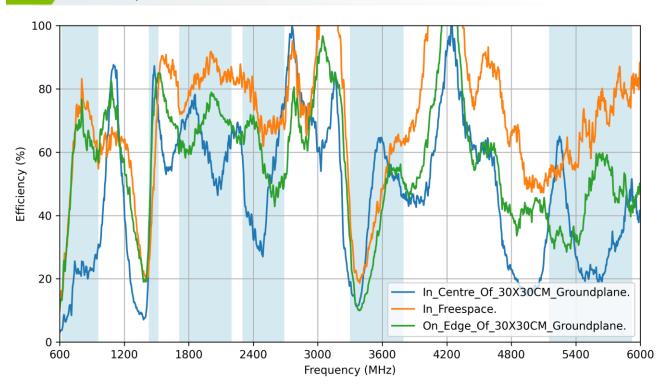


3.2 VSWR

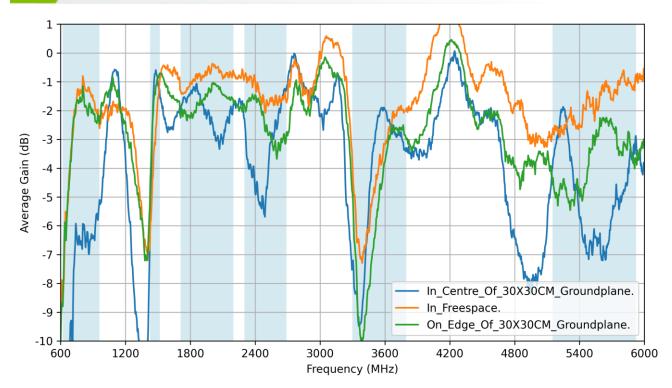




3.3 Efficiency

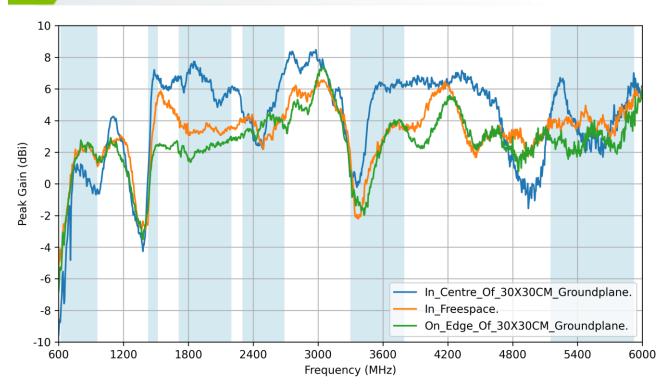


3.4 Average Gain





3.5 Peak Gain

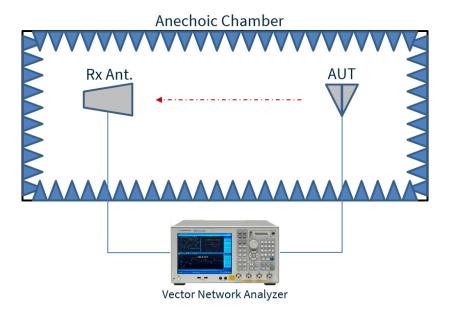


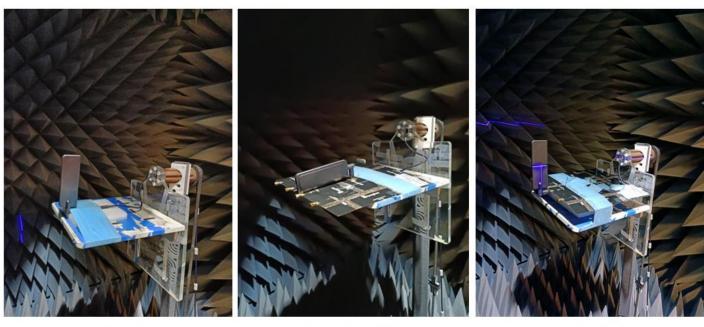
8



4. Radiation Patterns

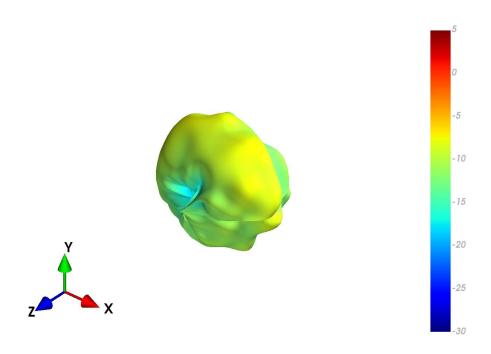
4.1 Test Setup

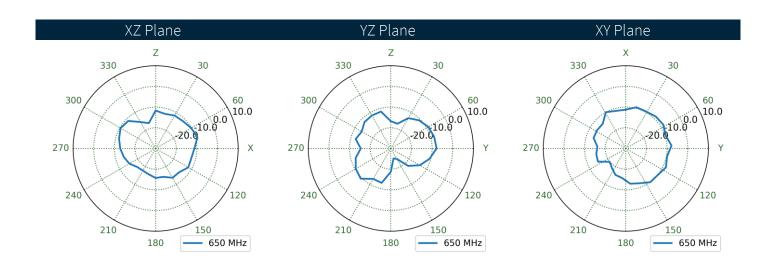






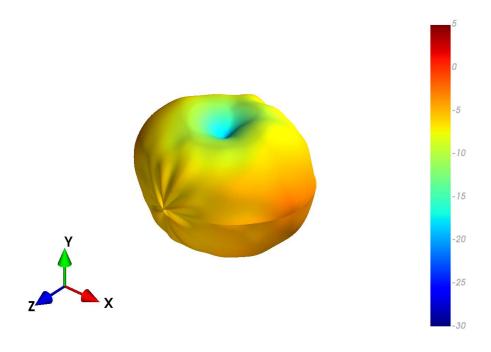
4.2 30x30cm Ground Plane (Centre) - Patterns at 650 MHz

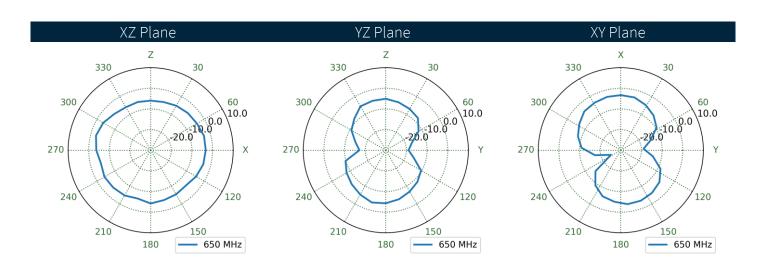






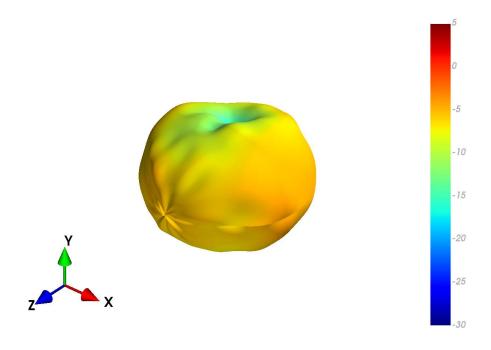
Free Space - Patterns at 650 MHz

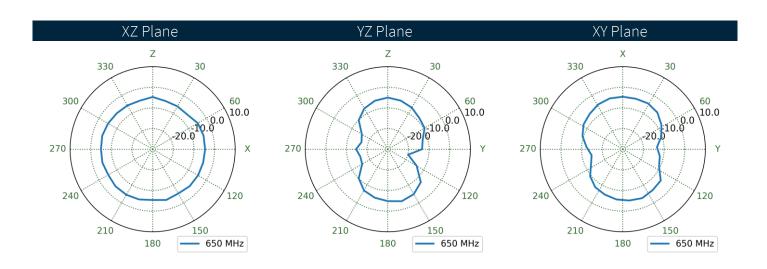






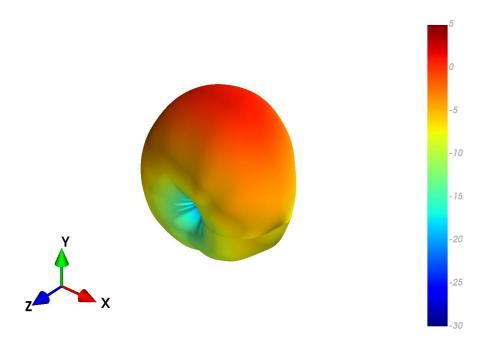
4.4 30x30cm Ground Plane (Edge) - Patterns at 650 MHz

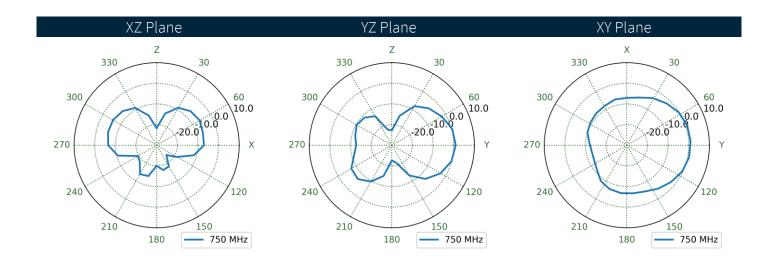






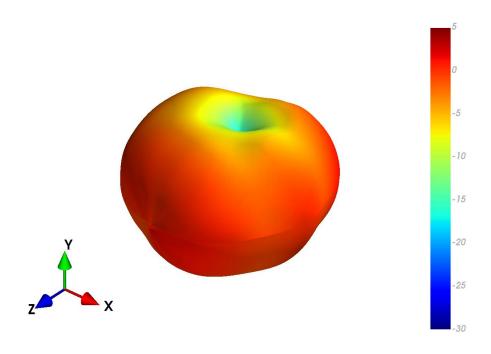
30x30cm Ground Plane (Centre) - Patterns at 750 MHz

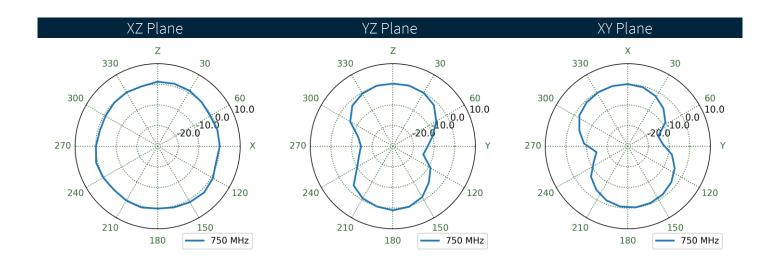






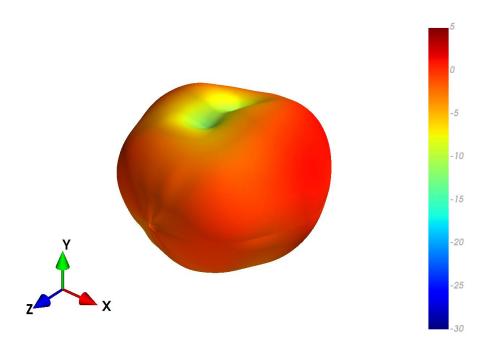
4.6 Free Space - Patterns at 750 MHz

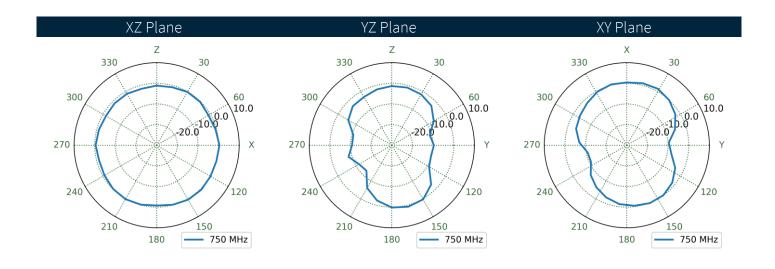






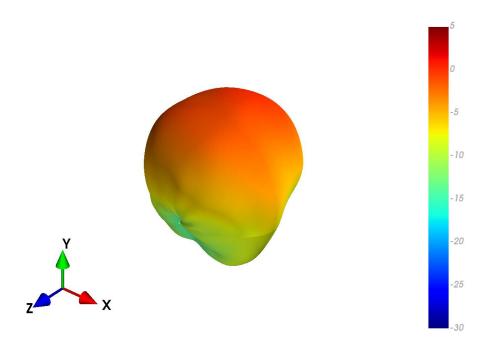
.7 30x30cm Ground Plane (Edge) - Patterns at 750 MHz

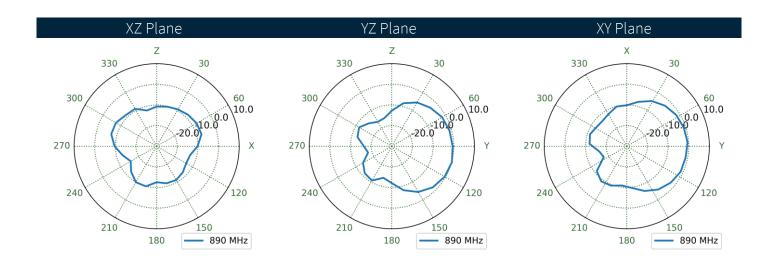






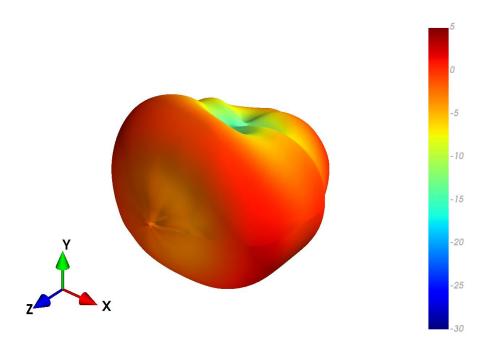
30x30cm Ground Plane (Centre) - Patterns at 890 MHz

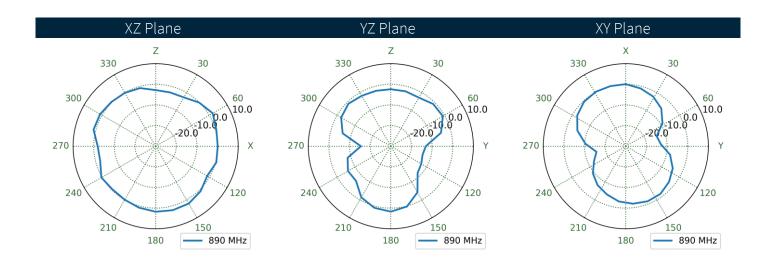






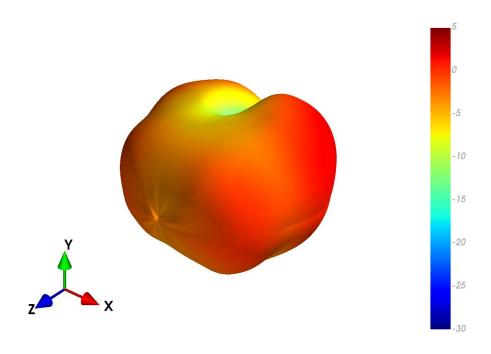
4.9 Free Space - Patterns at 890 MHz

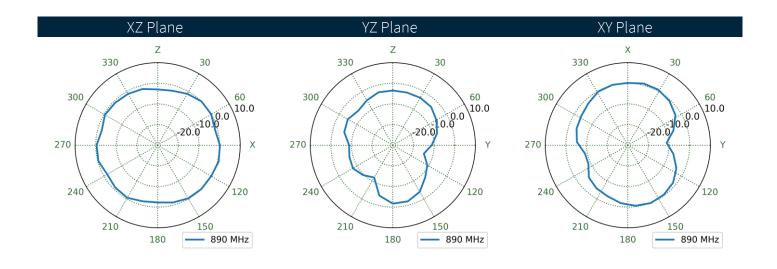






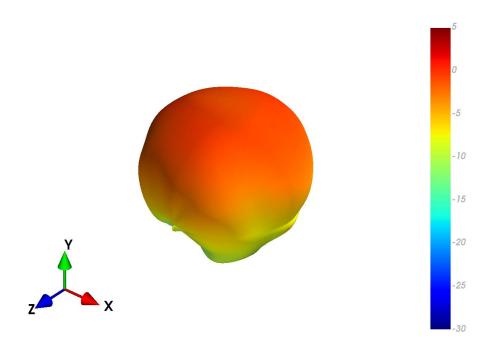
4.10 30x30cm Ground Plane (Edge) - Patterns at 890 MHz

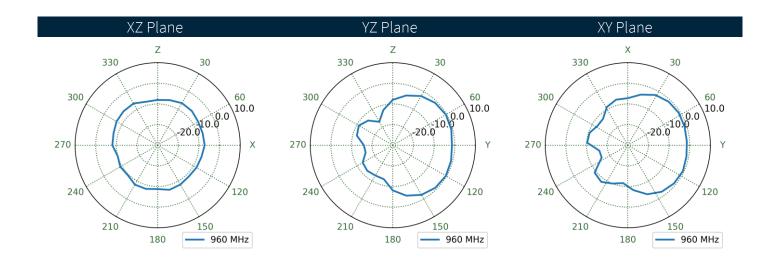






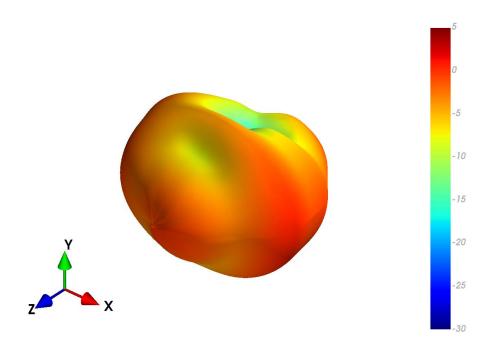
4.11 30x30cm Ground Plane (Centre) - Patterns at 960 MHz

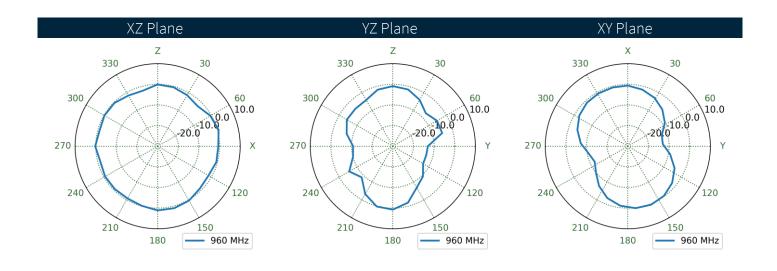






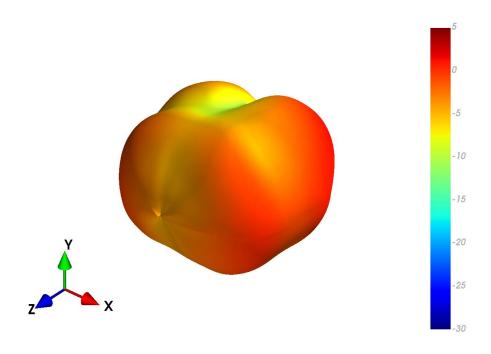
4.12 Free Space - Patterns at 960 MHz

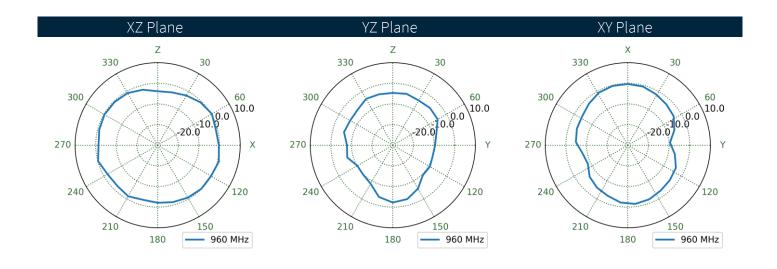






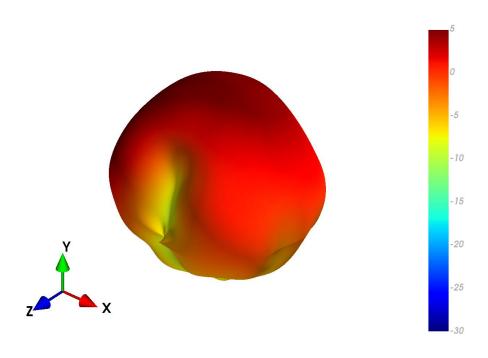
4.13 30x30cm Ground Plane (Edge) - Patterns at 960 MHz

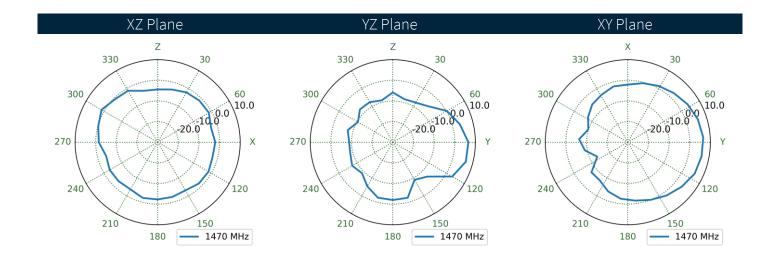






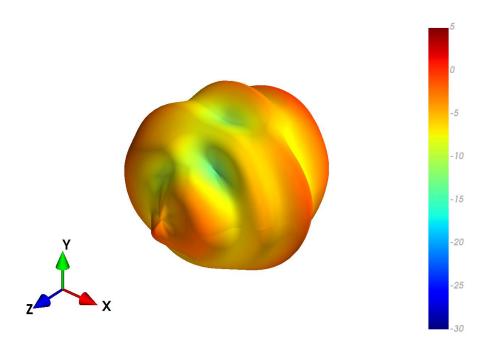
4.14 30x30cm Ground Plane (Centre) - Patterns at 1470 MHz

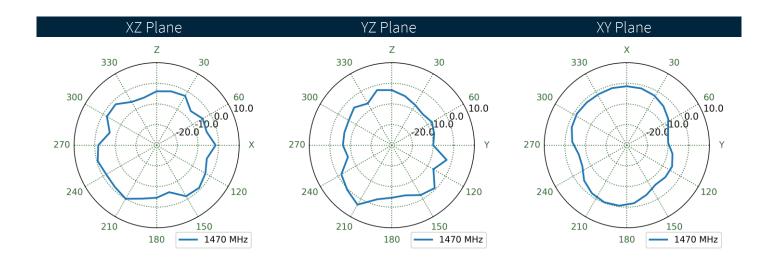






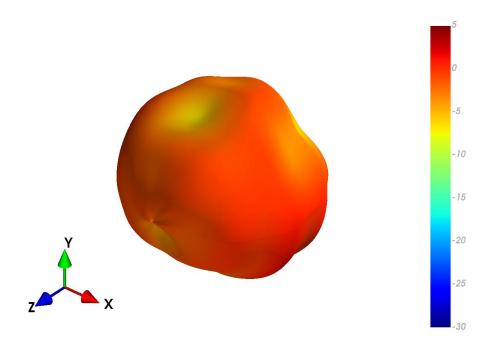
4.15 Free Space - Patterns at 1470 MHz

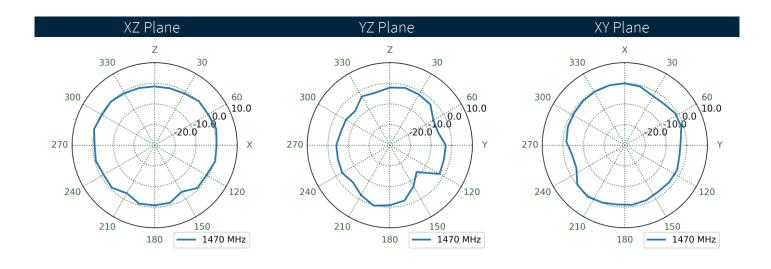






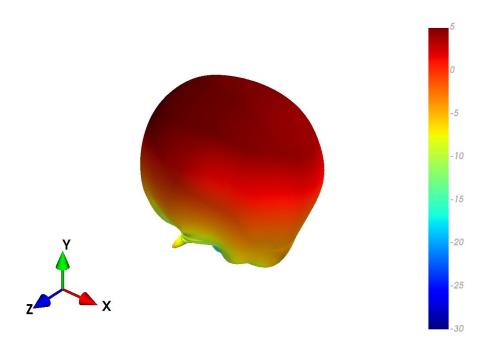
4.16 30x30cm Ground Plane (Edge) - Patterns at 1470 MHz

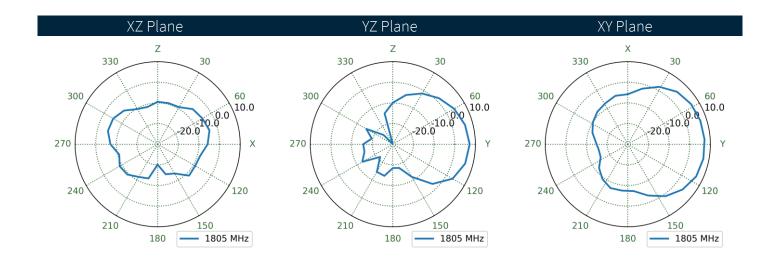






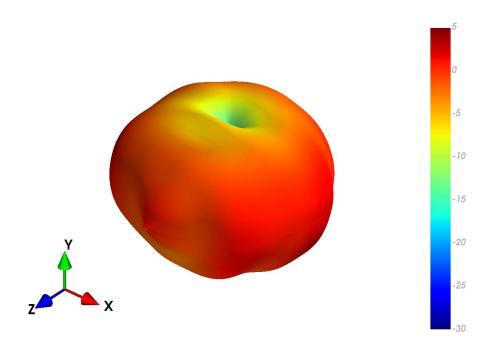
4.17 30x30cm Ground Plane (Centre) - Patterns at 1805 MHz

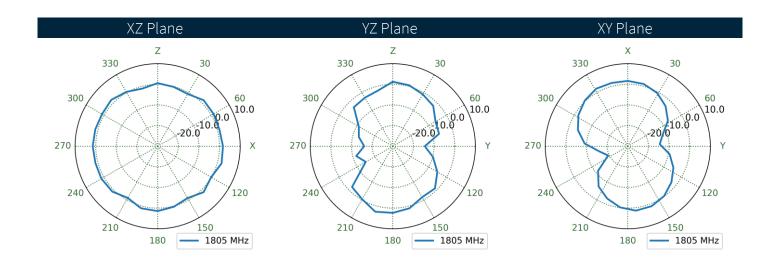






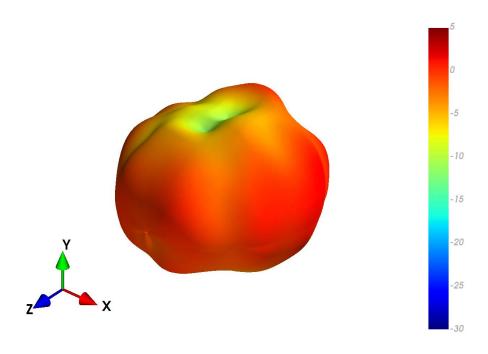
4.18 Free Space - Patterns at 1805 MHz

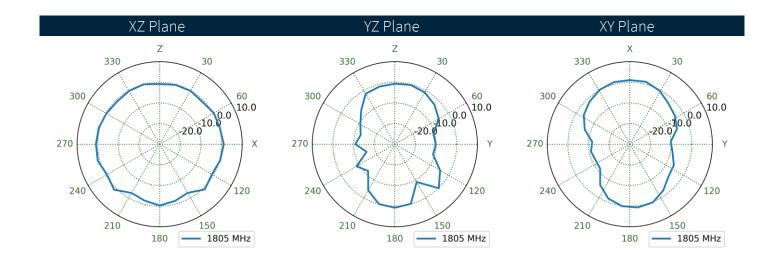






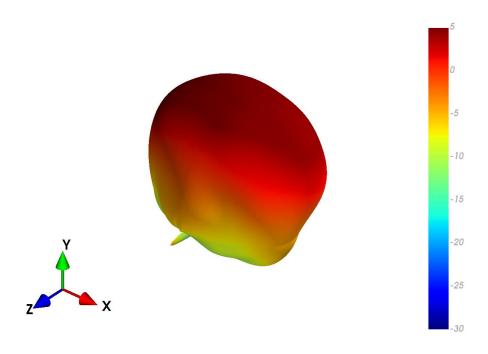
4.19 30x30cm Ground Plane (Edge) - Patterns at 1805 MHz

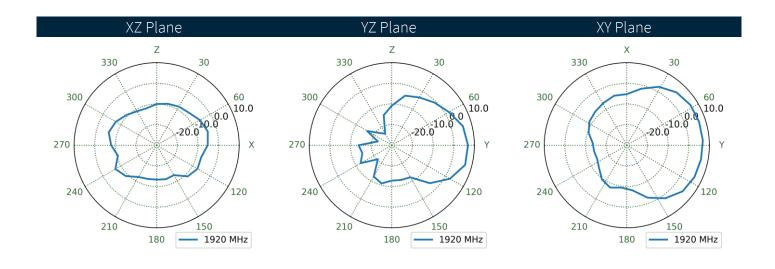






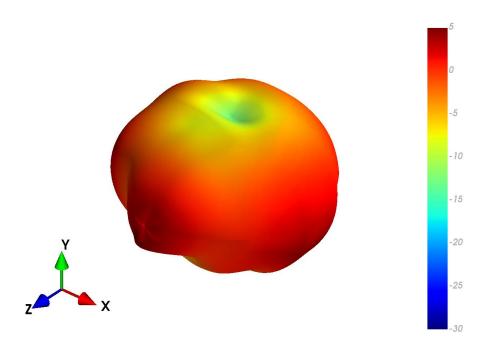
4.20 30x30cm Ground Plane (Centre) - Patterns at 1920 MHz

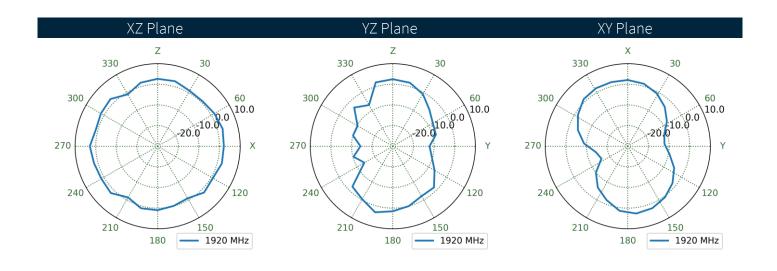






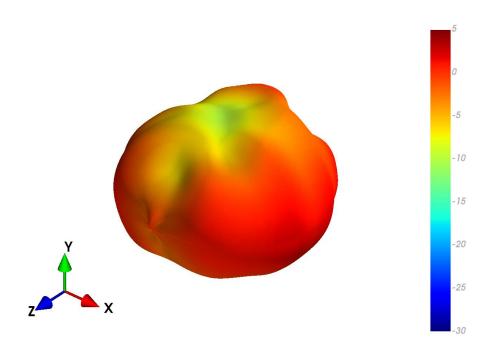
4.21 Free Space - Patterns at 1920 MHz

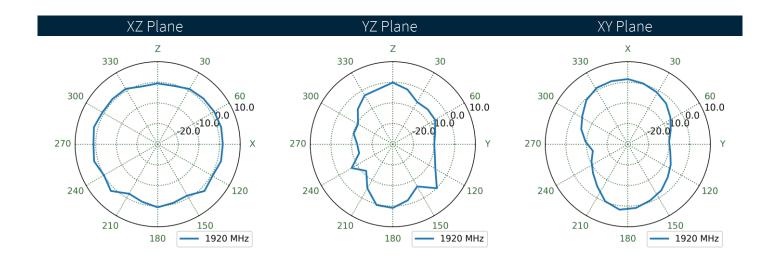






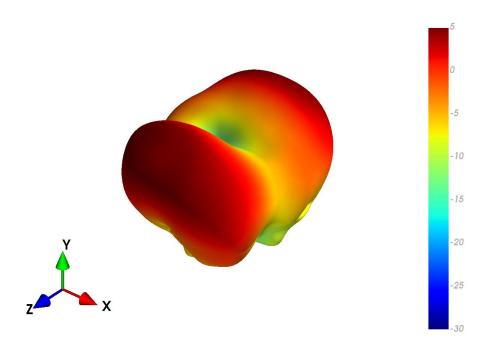
4.22 30x30cm Ground Plane (Edge) - Patterns at 1920 MHz

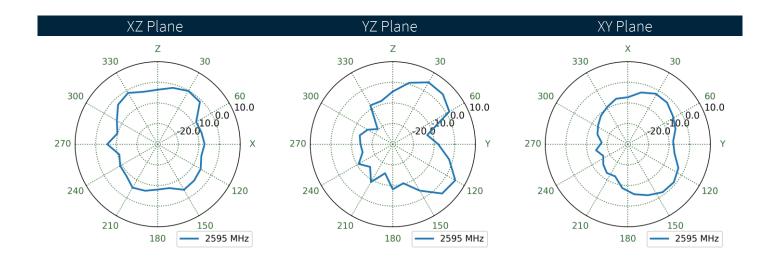






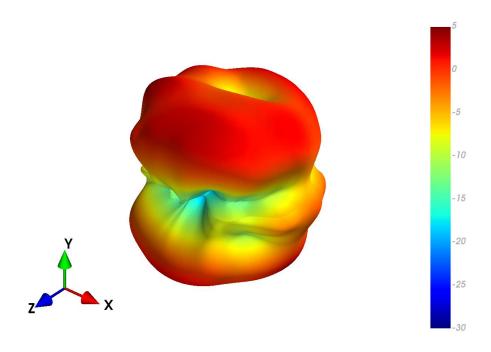
4.23 30x30cm Ground Plane (Centre) - Patterns at 2595 MHz

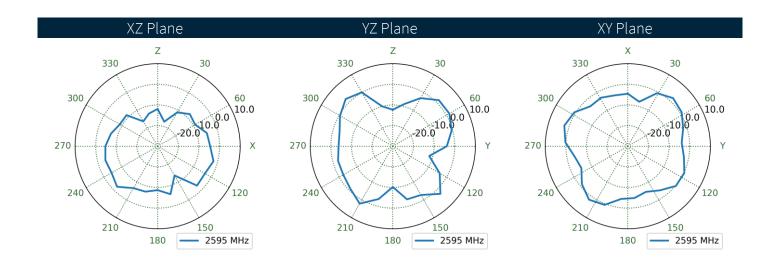






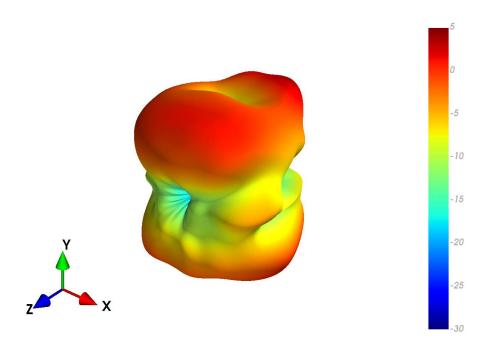
4.24 Free Space - Patterns at 2595 MHz

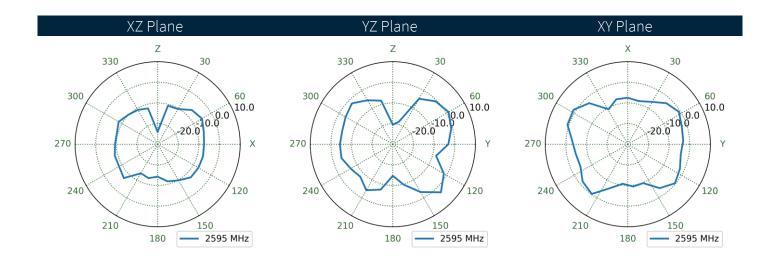






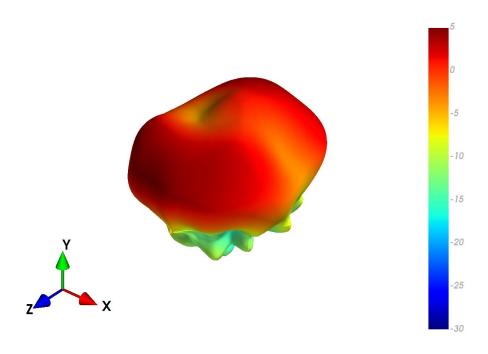
4.25 30x30cm Ground Plane (Edge) - Patterns at 2595 MHz

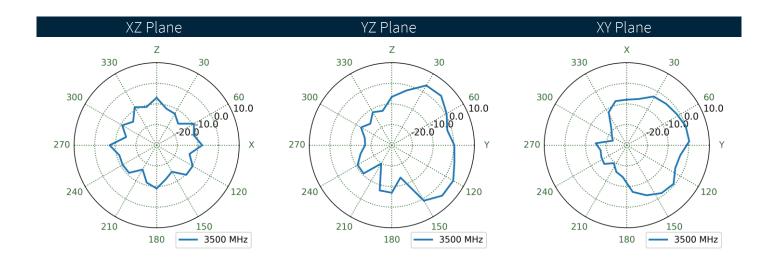






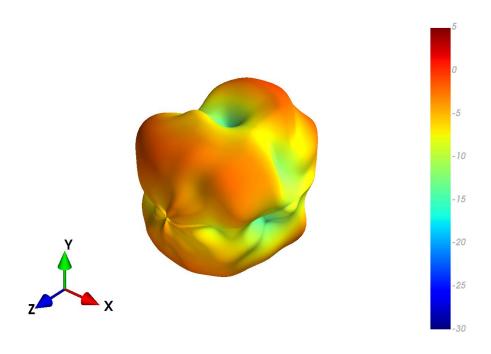
4.26 30x30cm Ground Plane (Centre) - Patterns at 3500 MHz

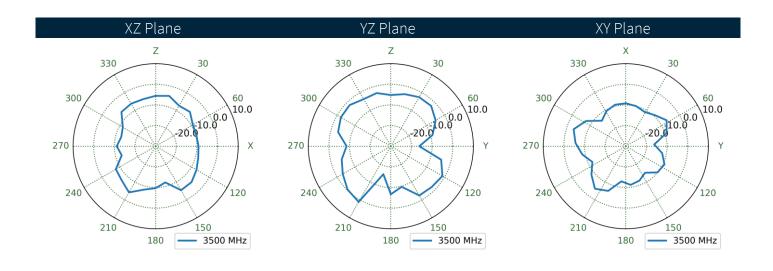






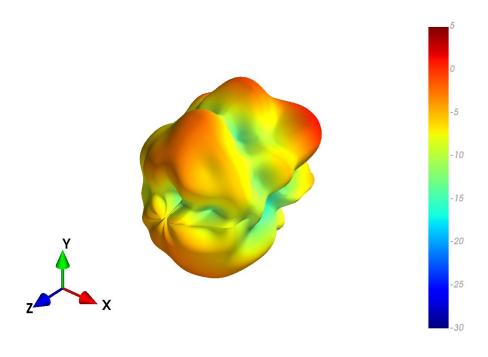
4.27 Free Space - Patterns at 3500 MHz

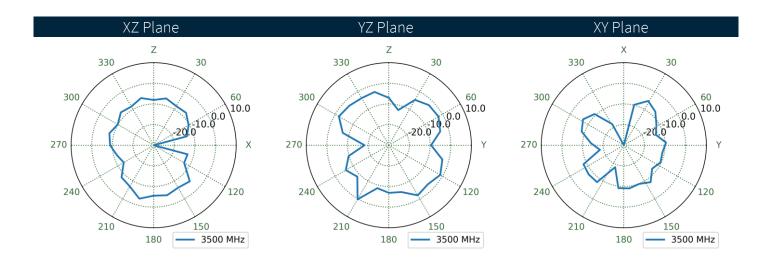






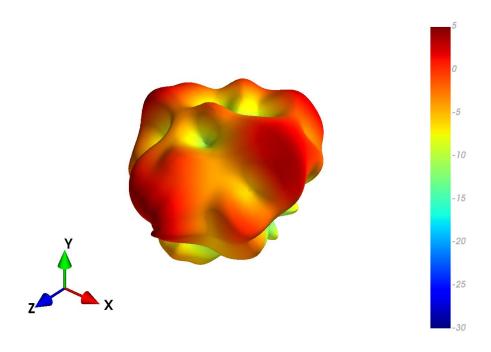
4.28 30x30cm Ground Plane (Edge) - Patterns at 3500 MHz

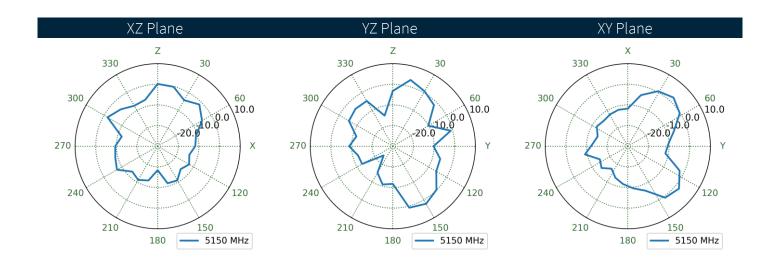






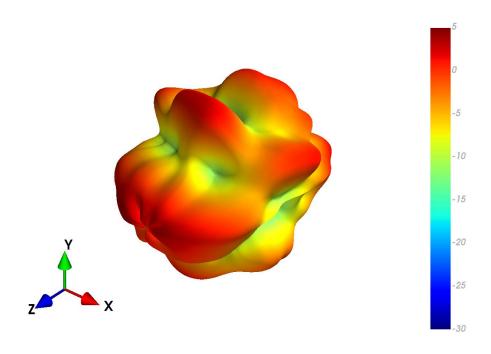
4.29 30x30cm Ground Plane (Centre) - Patterns at 5150 MHz

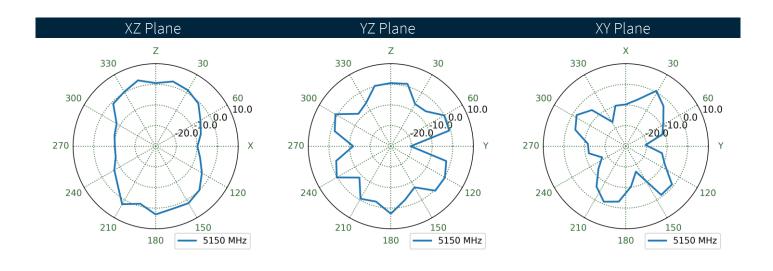






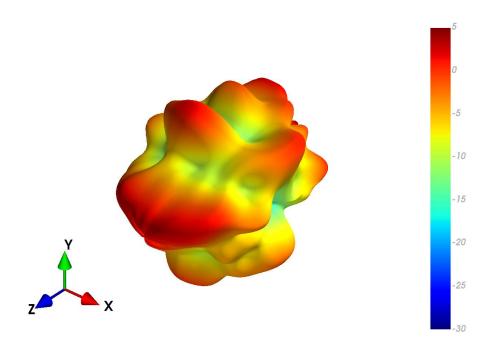
4.30 Free Space - Patterns at 5150 MHz

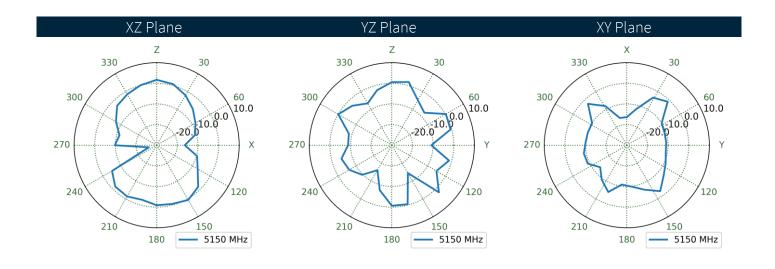






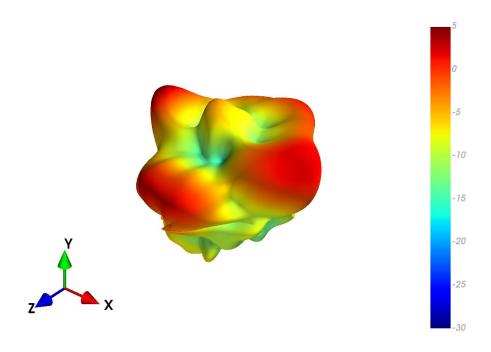
4.31 30x30cm Ground Plane (Edge) - Patterns at 5150 MHz

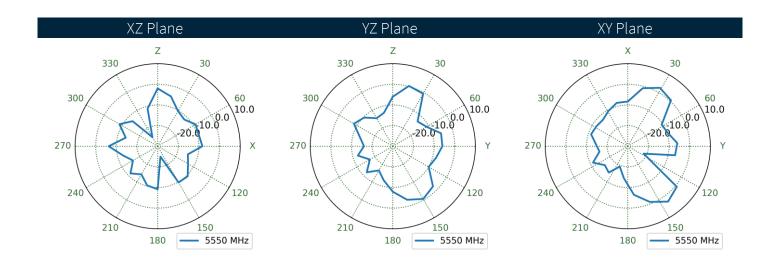






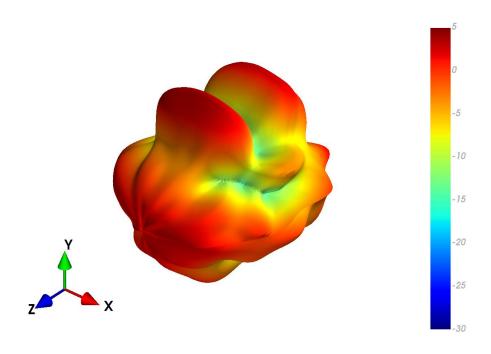
4.32 30x30cm Ground Plane (Centre) - Patterns at 5550 MHz

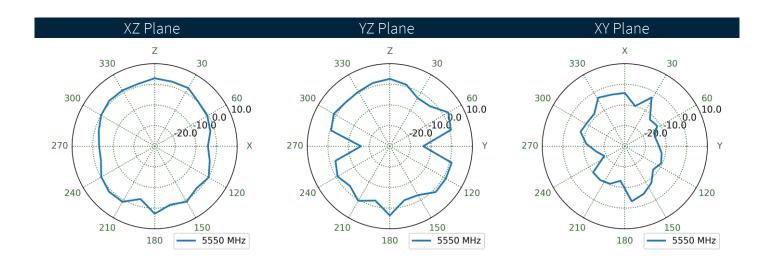






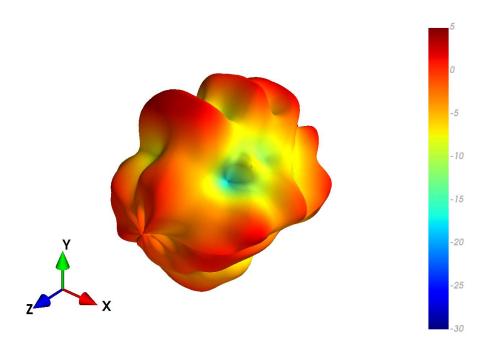
4.33 Free Space - Patterns at 5550 MHz

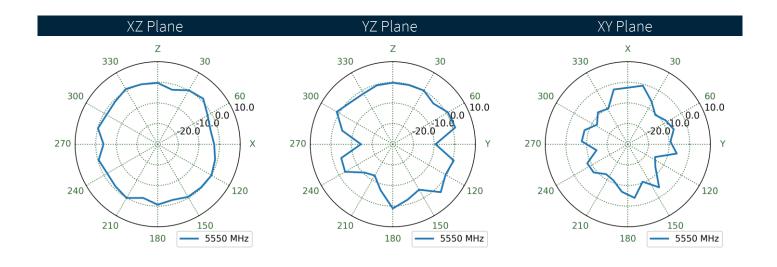






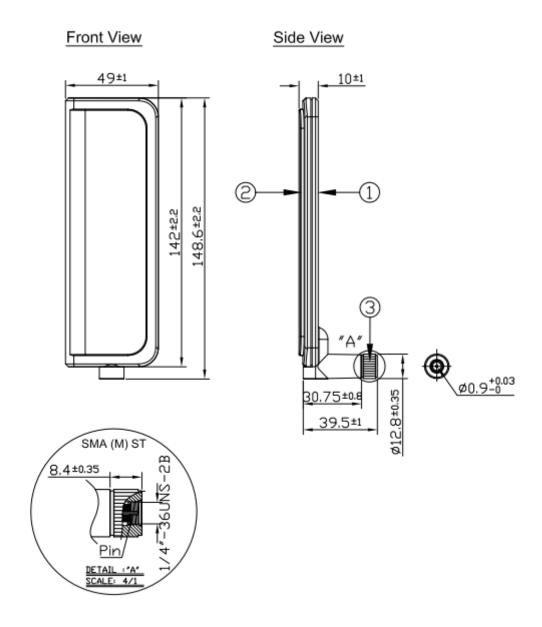
4.34 30x30cm Ground Plane (Edge) - Patterns at 5550 MHz





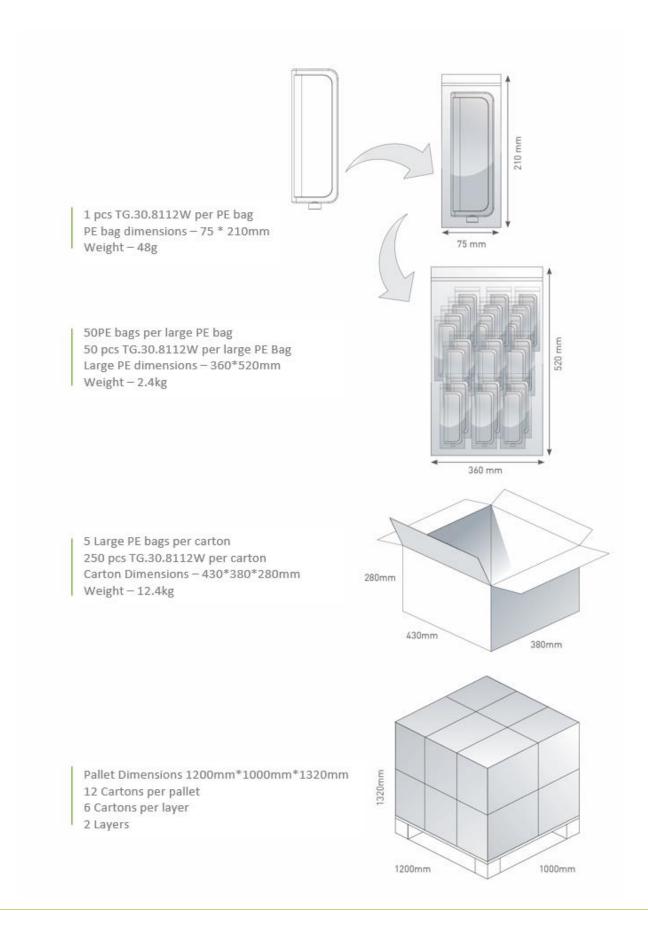


Mechanical Drawing





6. Packaging





Changelog for the datasheet

SPE-12-8-121 - TG.30.8112W

Revision: I (Current Version)			
Date:	2023-01-17		
Changes:	Adding band 40 to spec table (full datasheet update).		
Changes Made by:	Gary West		

Previous Revisions

Revision: H				
Date:	2022-09-26			
Changes:	Updated specifications			
Changes Made by:	Cesar Sousa			

Revision: C			
Date:	2017-01-13		
Changes:			
Changes Made by:	Technical Writer		

Revision: G				
Date:	2022-05-05			
Changes:	Full datasheet template update and show data 600-6000.			
Changes Made by:	Gary West			

Revision: B				
Date:	2012-09-27			
Changes:				
Changes Made by:	Technical Writer			

Revision: F			
Date:	2021-07-09		
Changes:	Added IP Rating		
Changes Made by:	Gary West		

Revision: A (Original First Release)			
Date:	2012-09-19		
Notes:			
Author:	Technical Writer		

Revision: E	
Date:	2018-11-30
Changes:	Removed IP rating
Changes Made by:	Jack Conroy

Revision: D	
Date:	2017-04-04
Changes:	Updated spec with LTE Bands
Changes Made by:	Andy Mahoney





www.taoglas.com

