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Antenna Test Report
Antenna Test Report
Report No.: TEOT2302000056E4
Applicant Name: Sony Corporation
Manufacturer Name: Sony Corporation
Product Name: GSM/WCDMA/LTE Phone with BT, DTS/UNII
A/B/G/N/AC/AX, GPS, WPT & NFC
FCC ID: PY-03571V
Measurements performed at
SGS Taiwan Ltd.
Hwaya District, Taiwan

Issued Date: February 08, 2023

	Name	Date & Signature	Distribution
Prepared by:			
	Nandi Chen	41 1 1	
Δ.	а Б і	Nandi Chen February 08, 2023	
	Sr. Engineer	February 08, 2023	
Approved by:		10010001 000, 2020	
Approved by.	Shawn Yen	Shawn Yen	
	Supervisor	February 08, 2023	

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Measurement System Information

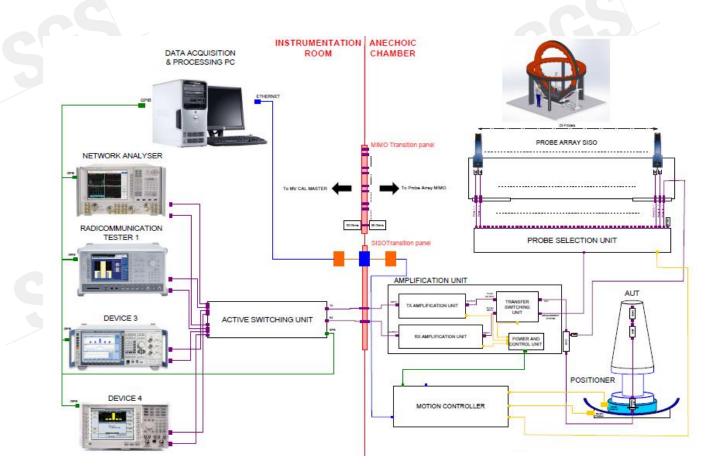
General Information

Testing Condition:

- Temperature: 22±3°C
- Humidity: <80%

Measurement Facility:

- Measurement Chamber: MVG 3D fully anechoic chamber and its measuring system (Stargate-24-L)
- Base Station Simulator: Anritsu MT8820C (or R&S CMU200)
- Network Analyzer: Agilent E5071C



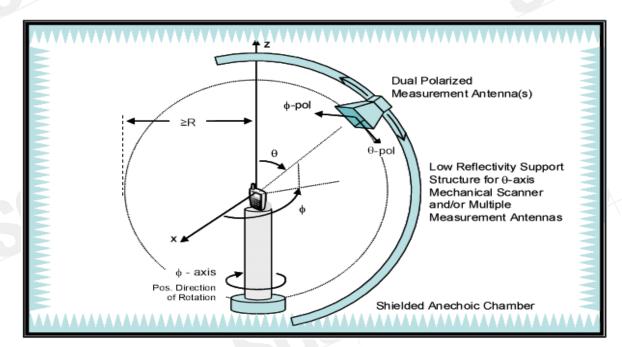
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Measurements are performed in a MVG Stargate-24-L with the StarAct interface for a base station simulator. The Stargate-24-L has 23 probe antennas mounted with equal spacing on a circular arch. Electronic switching of the probe antennas provides outstanding measurement speed. The geometry of the setup, with only a Styrofoam column within 1.6 meters of the EUT, ensures minimum interference and low ripple on the measured radiation patterns. The DUT is placed on top of the pedestal, in the center of the system.



Typical Setup for MVG Stargate-24-L:

Instruments View

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Inside View



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Testing Laboratory: Identification of the Responsible Test Laboratory.

OTA Laboratory: SGS Taiwan Ltd. Wireless Laboratory No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803. Telephone: +886 2 2299 3279 Fax: +886 2 2298 0488 Internet: http://www.tw.sgs.com

Testing Location:

No. 2, Keji 1st Rd., Hwaya Technology Park, Guishan District, Taoyuan City, Taiwan 33383.

Details of Applicant:

Applicant's name:	Sony Corporation
Applicant's address:	1-7-1 Konan Minato-ku, Tokyo, 108-0075, Japan

Details of Manufacturer:

Applicant's name:	Sony Corporation
Applicant's address:	1-7-1 Konan Minato-ku, Tokyo, 108-0075, Japan

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Details of EUT: Device Description:

GSM/WCDMA/LTE Phone with BT, DTS/UNII

-	A/B/G/N/AC/AX, GPS, WPT & NFC	
Device Manufacturer:	Sony Corporation	
Device Model:	PY-03571V	
Frequency Range:	2402MHz ~ 5850MHz	
Antenna Type:	Internal	

Duration of Tests:		
Sample Receive Date:	2022-12-30	
Test Starting Date:	2022-12-30	
Test Ending Date:	2023-01-07	
Report Issued Date:	2023-02-08	

List of Equipment

Equipment Summary Sheet

Equipment Description	Manufacturer	Identification no.	S/N	Current calibration date	Next calibration date
Network Analyzer	Agilent	E5071C	MY46100433	2022/01/12	2023/01/11
Sleeve Dipole	MVG	SD740	SD740-07	2022/01/07	2025/01/06
Dual Ridge Horn	MVG	SH800	S0051	2022/11/25	2023/11/24
Stargate-24-L probe array	MVG	Stargate-24-L	MVG	2022/08/26	2023/08/25
Measurement software	MVG	SPM V1.9	N/A	N/A	N/A



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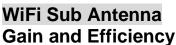
Test Results

WiFi Main Antenna Antenna Gain and Efficiency

Freq(MHz)	Peak Gain (dBi)	Efficiency
2402	-1.86	18.91%
2441	-0.43	24.57%
2480	-0.77	23.48%
5240	-0.45	13.32%
5600	0.37	22.09%
5800	0.00	24.19%

Maximum Gain

- 2402 MHz 2480 MHz: -0.43 dBi
- 5180 MHz 5320 MHz: -0.29 dBi
- 5500 MHz 5720 MHz: 0.53 dBi
- 5725 MHz 5850 MHz: 0.38 dBi



Freq(MHz)	Peak Gain (dBi)	Efficiency
2402	-4.55	10.26%
2441	-4.44	10.45%
2480	-5.15	9.11%
5240	-0.57	16.58%
5600	-2.42	10.00%
5800	-3.92	7.14%

Maximum Gain

- 2402 MHz 2480 MHz: -4.44 dBi
- 5180 MHz 5320 MHz: 0.61 dBi
- 5500 MHz 5720 MHz: -0.43 dBi
- 5725 MHz 5850 MHz: -3.72 dBi

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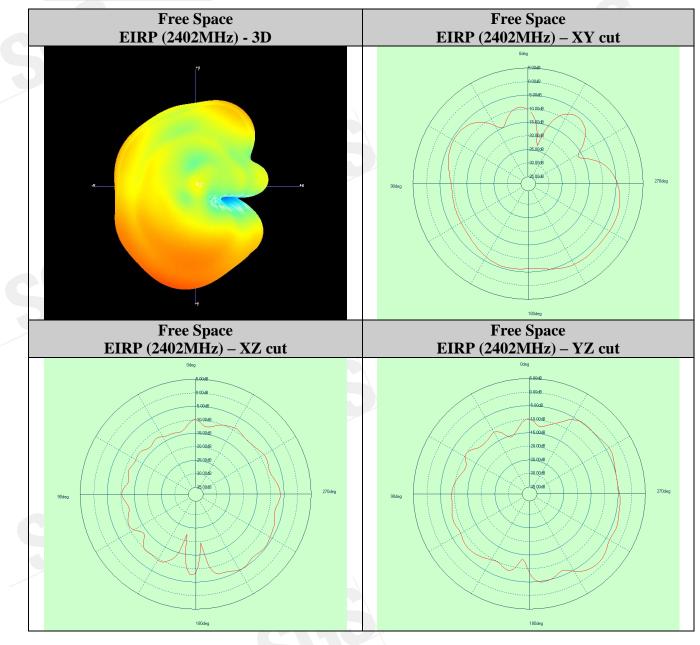
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Antenna 3D Plot Matrix

All plots in this section show the total EIRP (EIRP θ + EIRP ϕ) with the +x-axis pointing right, +yaxis pointing up, and +z-axis pointing out of the page.

WiFi Main Antenna



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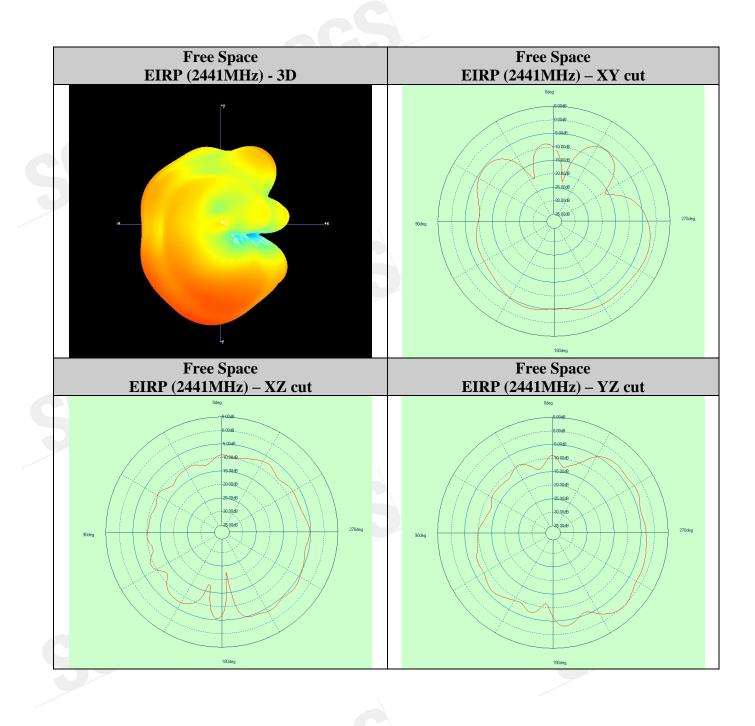
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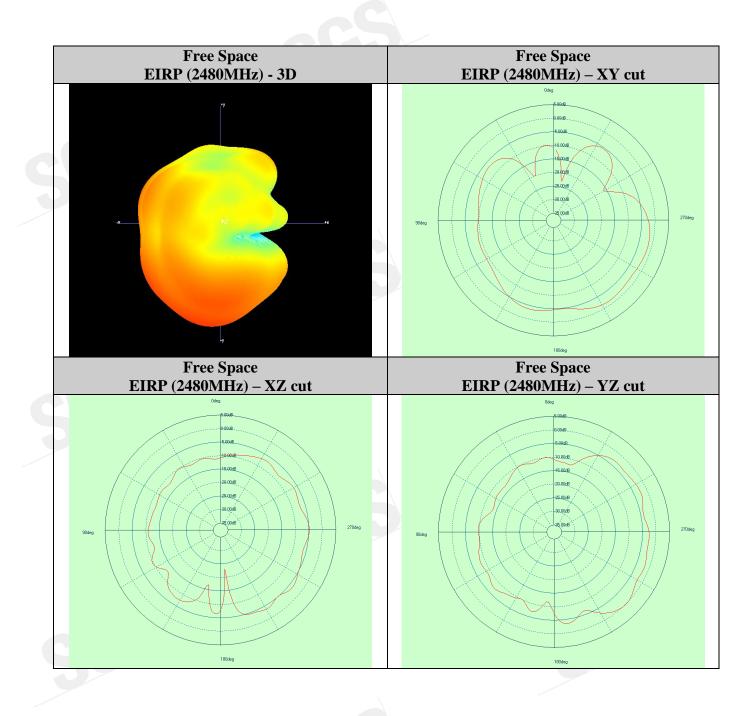


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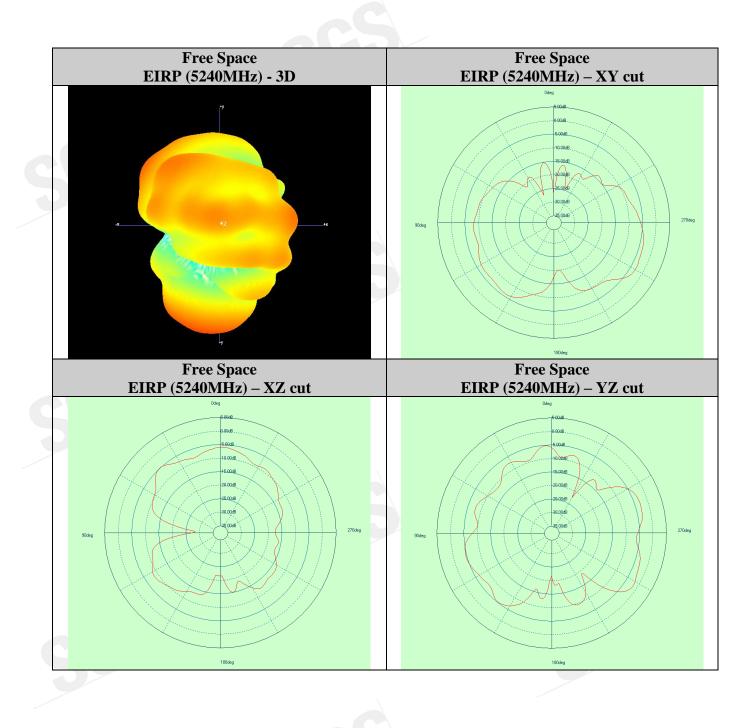
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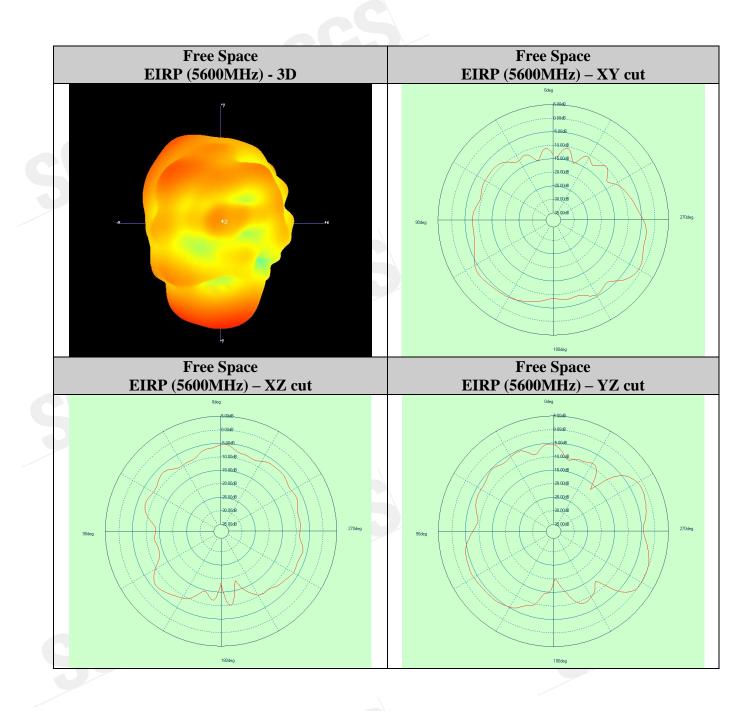
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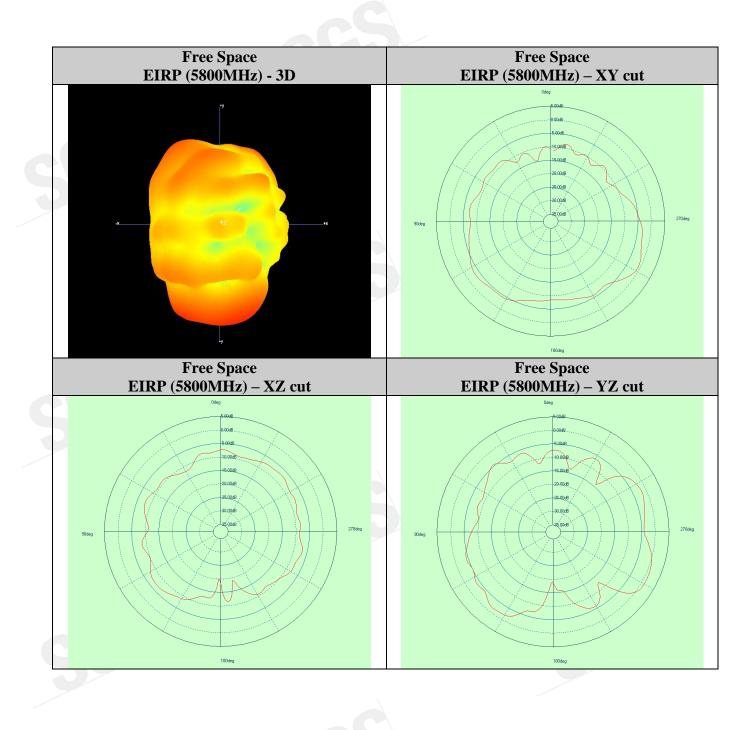
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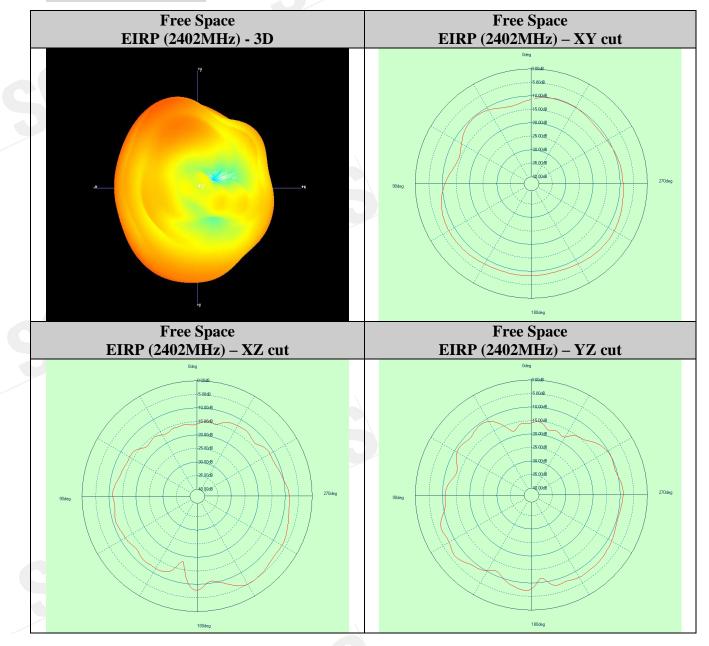
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WiFi Sub Antenna



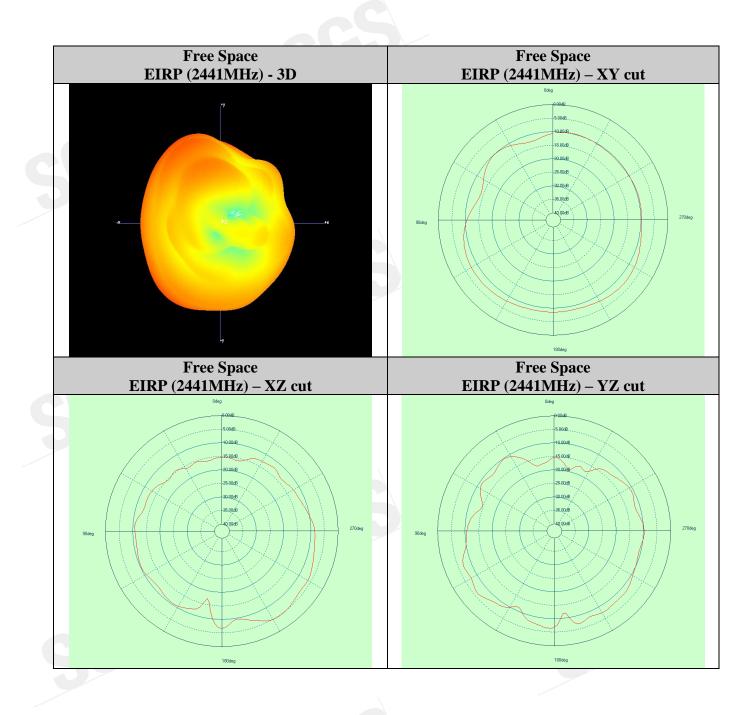
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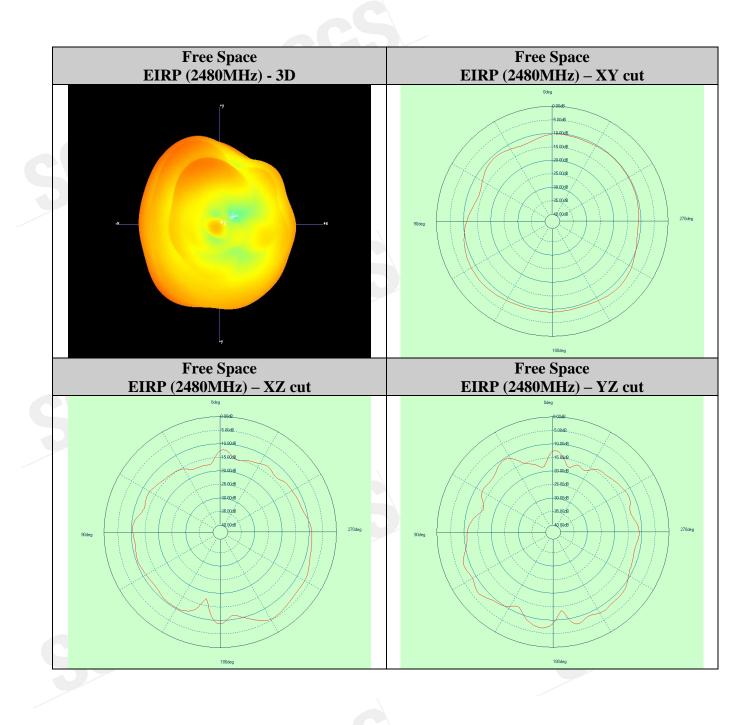
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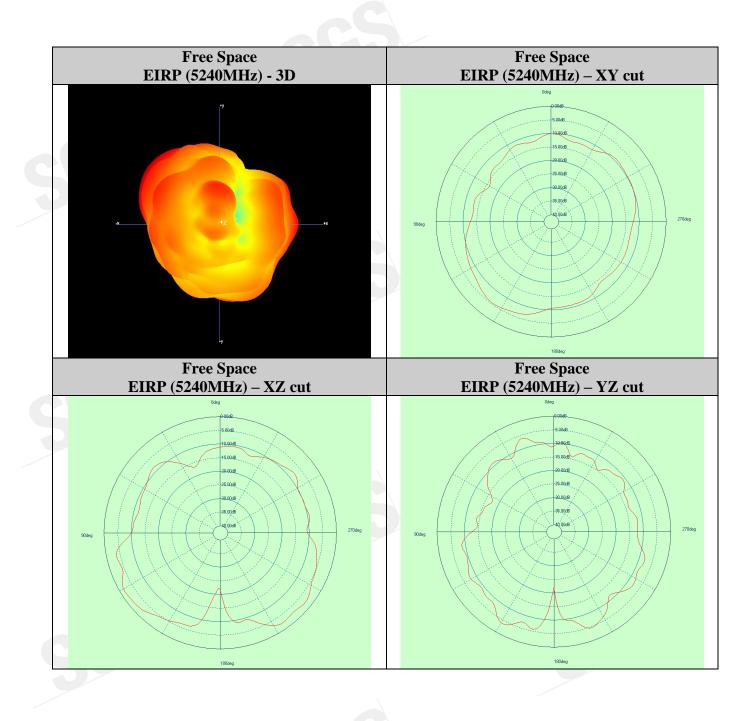
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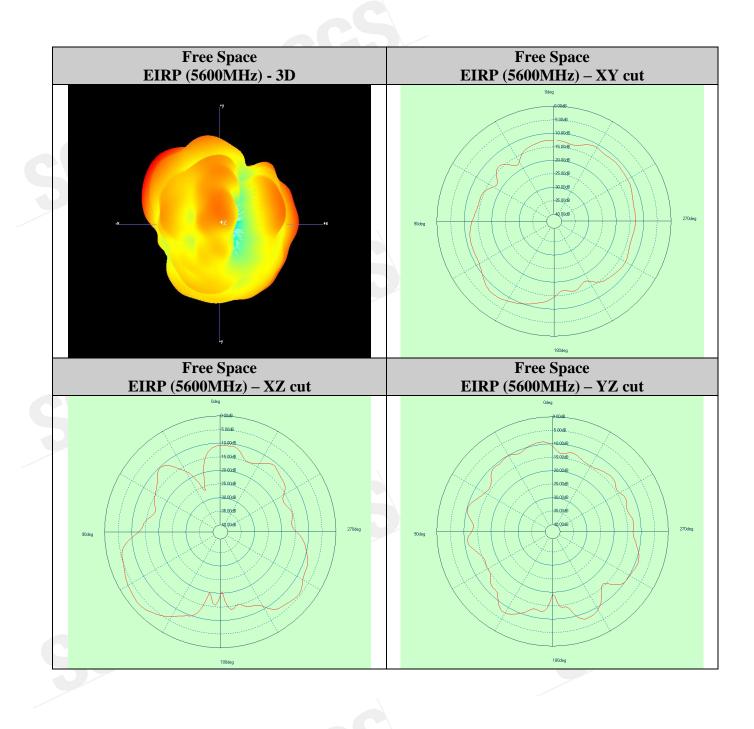
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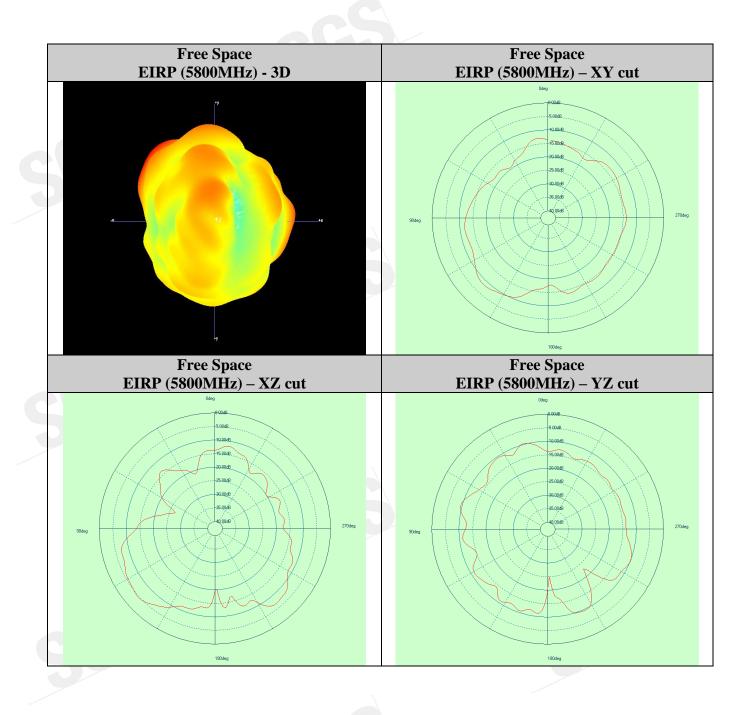
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