

OTA Antenna Performance Data Summary

APPLICANT : M5Stack Technology Co., Ltd
EQUIPMENT : M5StickC-Lite
BRAND NAME : M5Stack
MODEL NAME : StickC-Lite
ANTENNA TYPE : IFA Antenna
DEVICE RECEIVING DATE : Apr. 14, 2023
TEST DATE : Apr. 14, 2023

Tested by:

Jinshan Zheng

Jinshan Zheng / Senior Engineer

Reviewed by:

Johnny Chen

Johnny Chen / Manager

Sporton International Inc. (Shenzhen)

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055

People's Republic of China



Table of Contents

Revision History -----3

1. Administration Data -----4

 1.1 Testing Laboratory-----4

 1.2 Applicant-----4

2. Product Photo -----5

3. Summary of Test Result of Antenna Gain -----6

4. Description for EUT Testing Position -----7

5. Free Space Position Antenna Gain Patterns -----8



Revision History

DATA NO.	VERSION	DESCRIPTION	ISSUED DATE
OQ342006	1.0	Initial issue of data summary	Apr. 24, 2023



1. Administration Data

1.1 Testing Laboratory

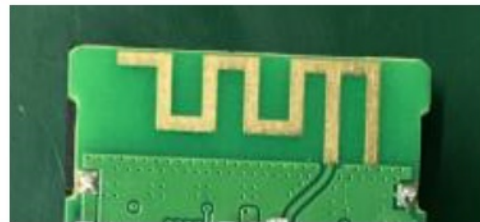
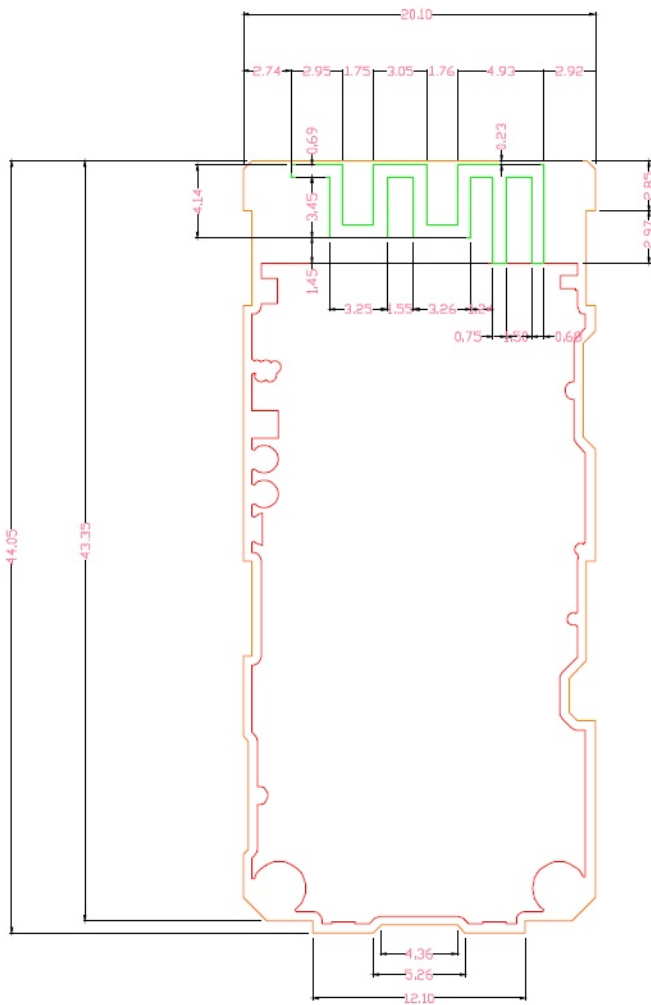
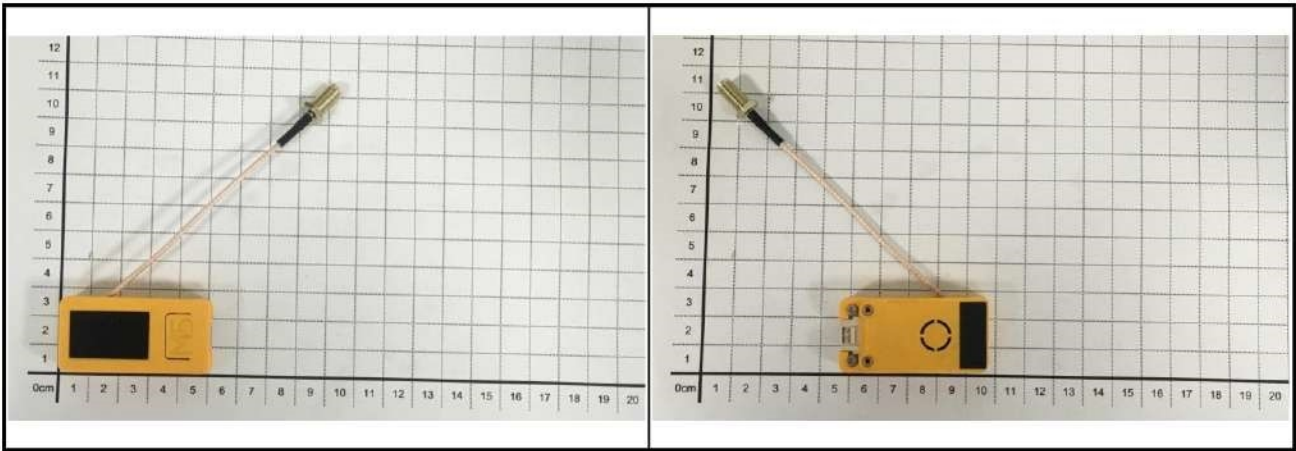
Test Site	Sporton International Inc. (Shenzhen)
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055, People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595
Chamber	<input type="checkbox"/> OTA01-SZ <input checked="" type="checkbox"/> OTA02-SZ <input type="checkbox"/> OTA03-SZ

■: Indicates the chamber(s) used in this data summary.

1.2 Applicant

Company Name	M5Stack Technology Co., Ltd
Address	5F, Tangwei Stock Commercial Building Youli Road, Bao'an District, Shenzhen, Guangdong, China

2. Product Photo



UNIT : mm

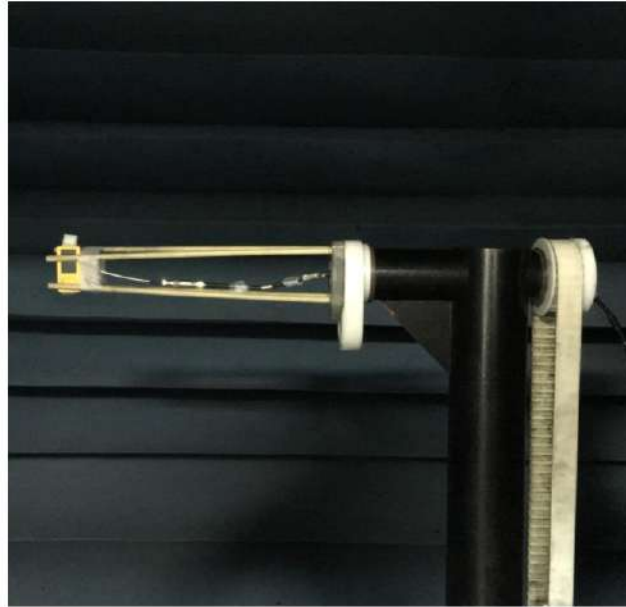


3. Summary of Test Result of Antenna Gain

Test / Position	Antenna Gain / Free Space												
Frequency (MHz)	2412	2417	2422	2427	2432	2437	2442	2447	2452	2457	2462	2467	2472
Directivity (dBi)	4.14	4.06	4.09	4.04	3.99	3.95	3.89	3.90	3.98	3.96	4.04	4.11	4.17
Avg Gain(dBi)	-7.00	-6.98	-6.90	-6.96	-6.93	-6.91	-6.86	-6.83	-6.85	-6.81	-6.80	-6.82	-6.81
Efficiency (%)	19.95	20.06	20.41	20.14	20.28	20.39	20.60	20.73	20.64	20.84	20.89	20.78	20.85
Peak Gain(dBi)	-2.86	-2.92	-2.81	-2.92	-2.94	-2.96	-2.97	-2.94	-2.87	-2.85	-2.76	-2.71	-2.63

4. Description for EUT Testing Position

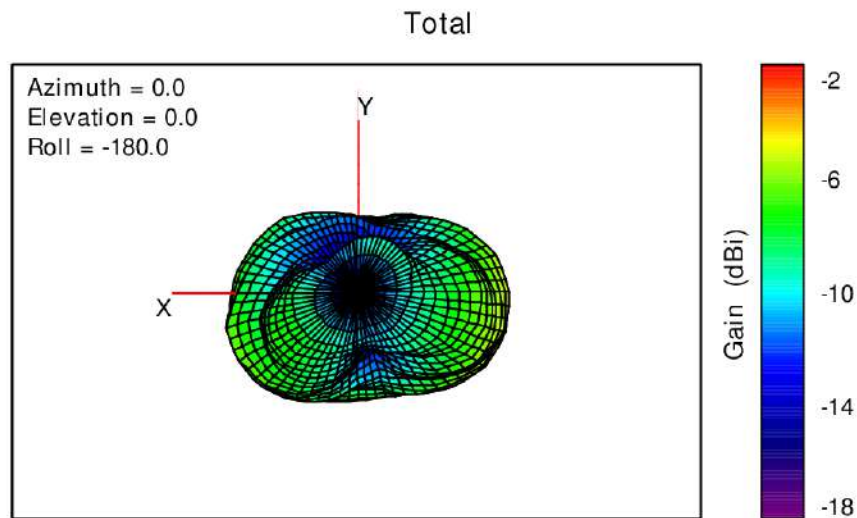
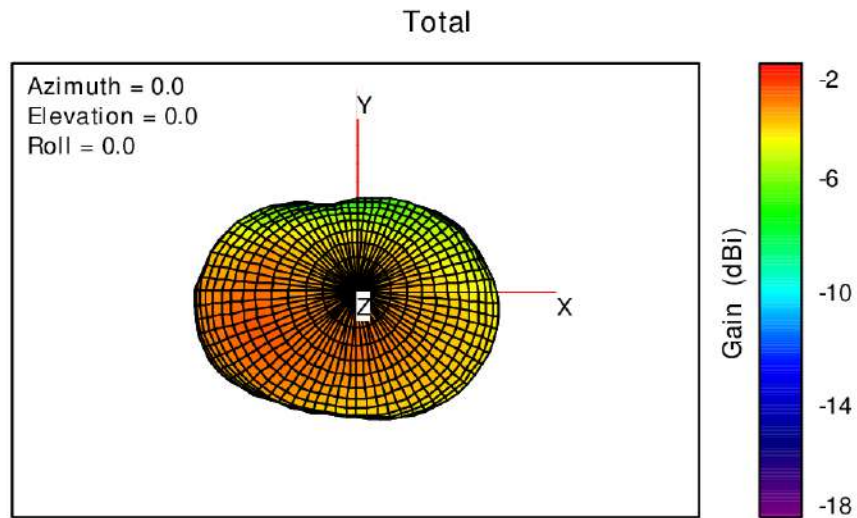
Placed and fixed with tape shown as below.



Free Space

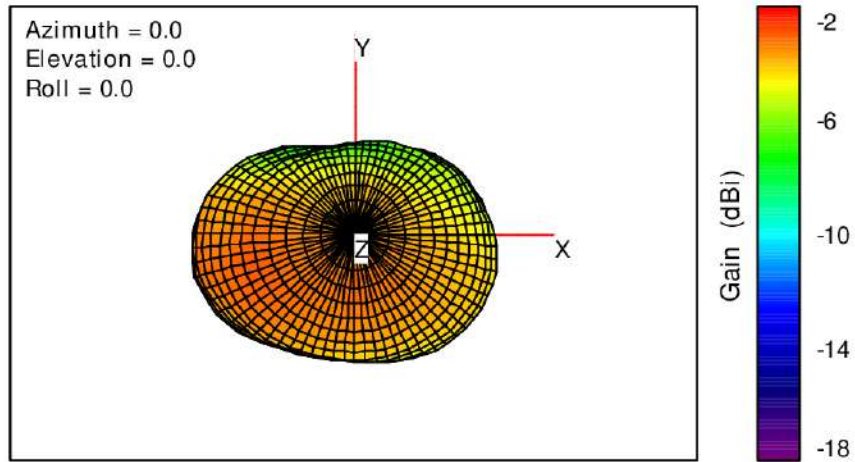
5. Free Space Position Antenna Gain Patterns

Please refer to as below.

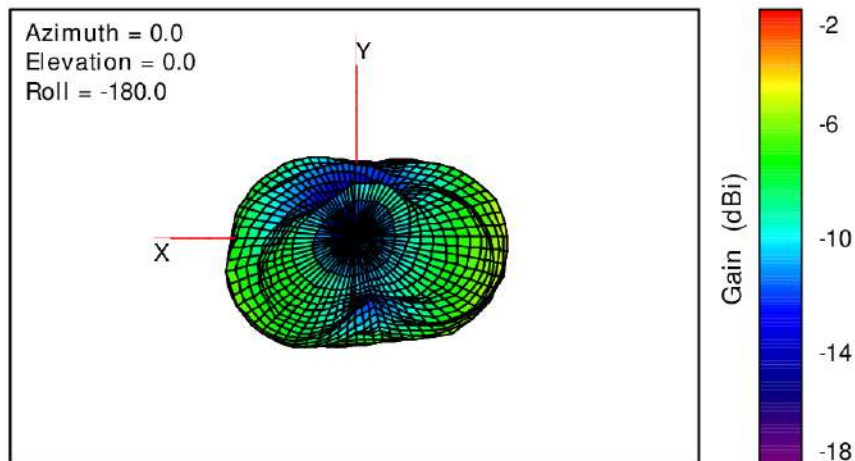


Free Space for 2412MHz

Total

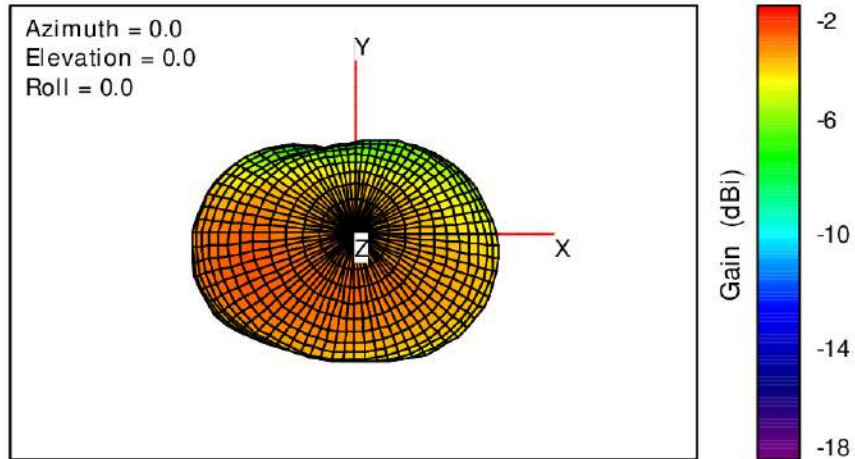


Total

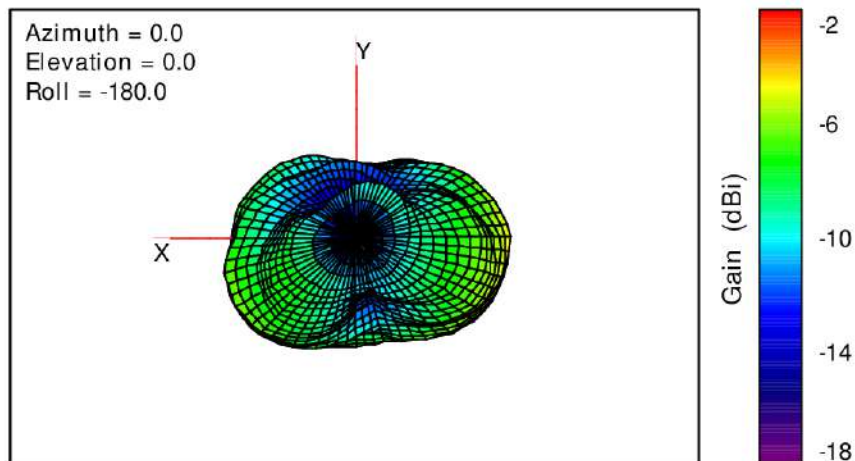


Free Space for 2417MHz

Total

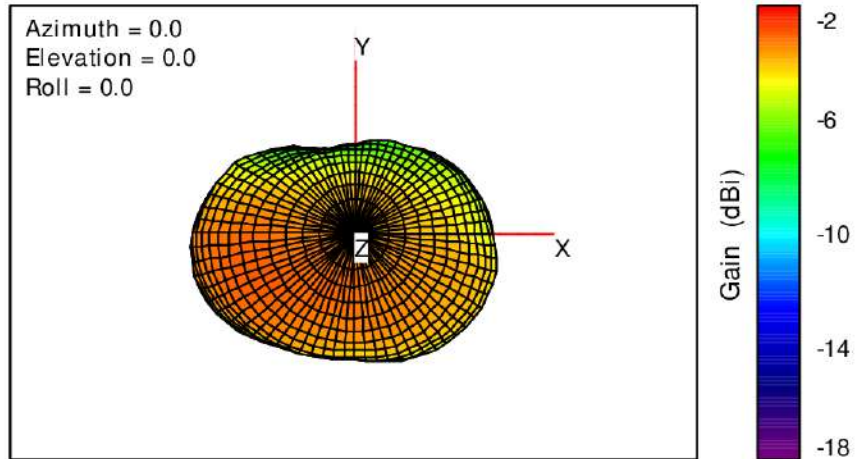


Total

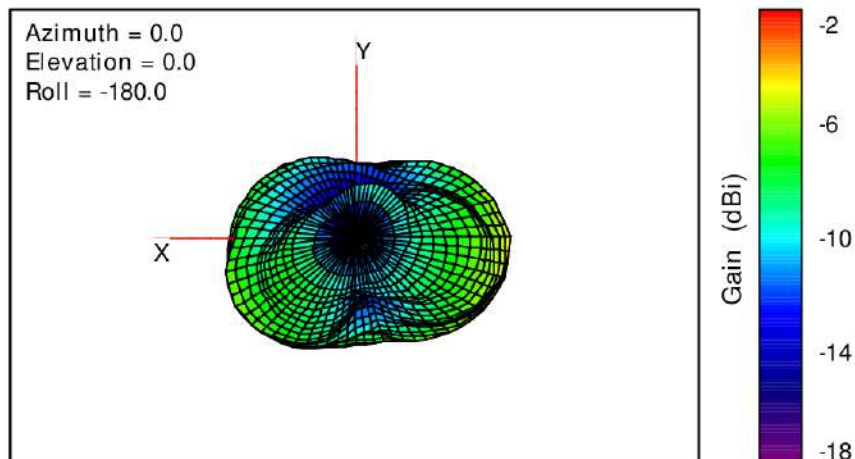


Free Space for 2422MHz

Total

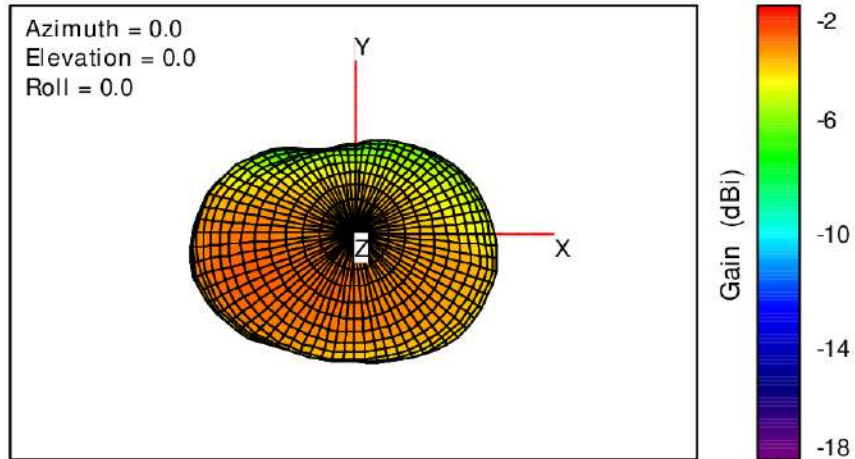


Total

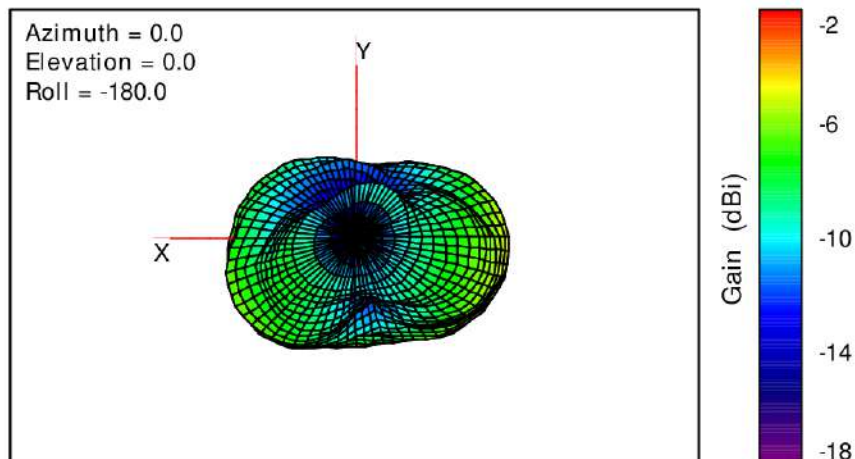


Free Space for 2427MHz

Total

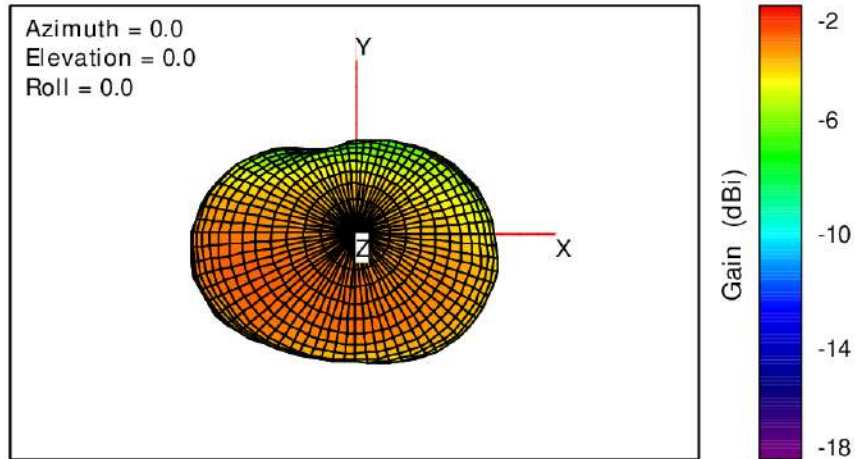


Total

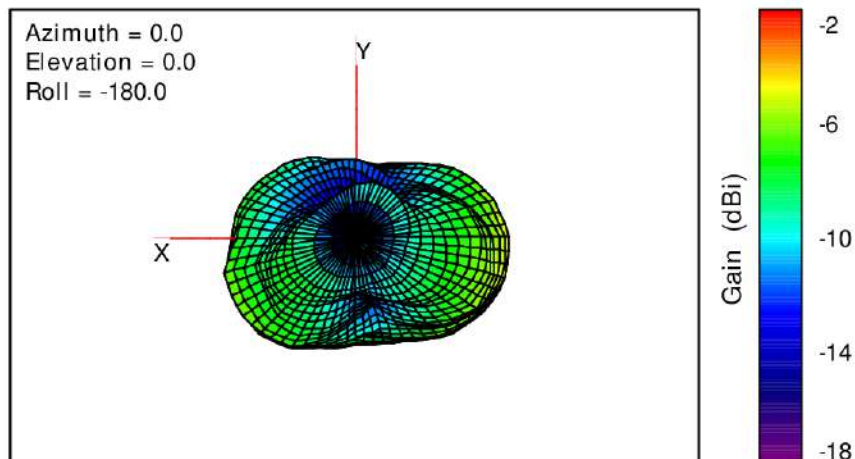


Free Space for 2432MHz

Total

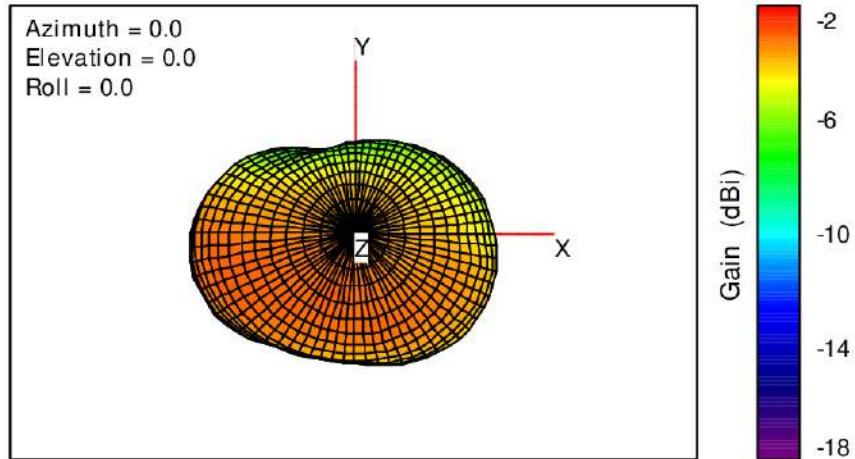


Total

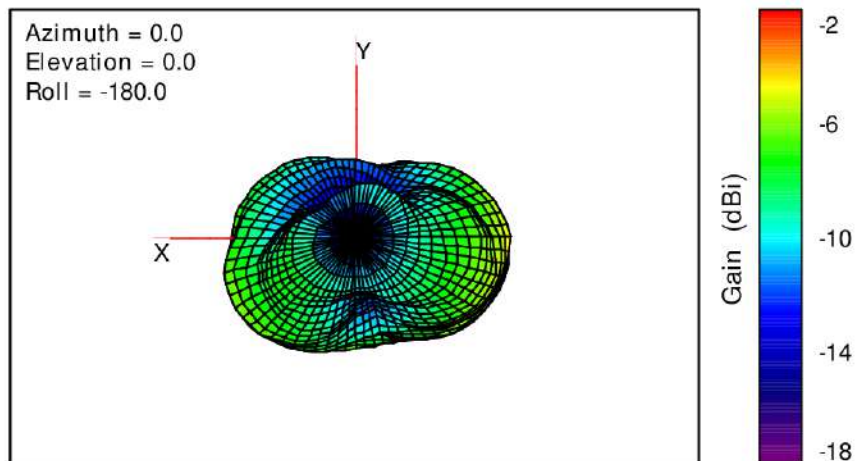


Free Space for 2437MHz

Total

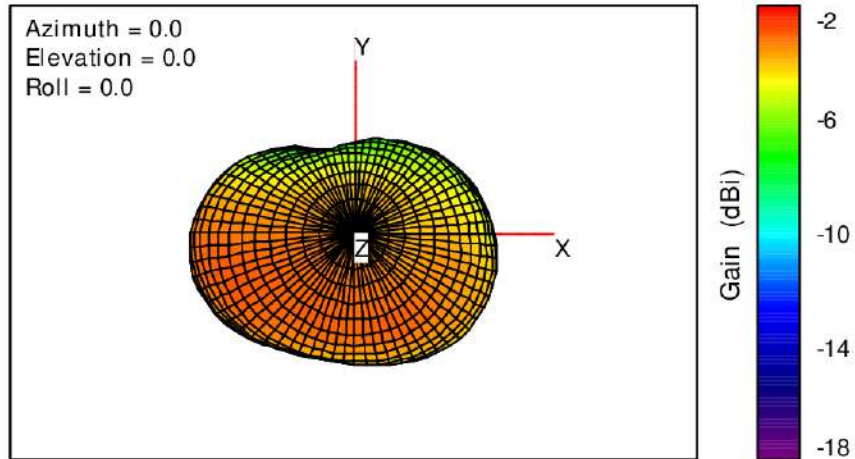


Total

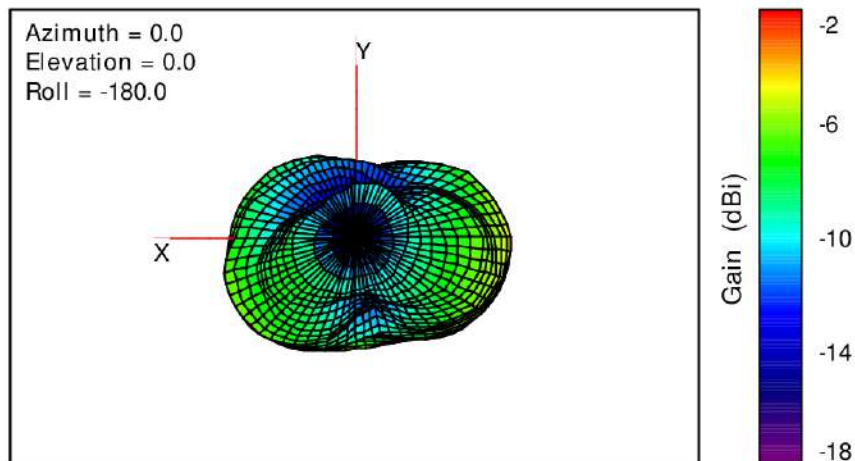


Free Space for 2442MHz

Total

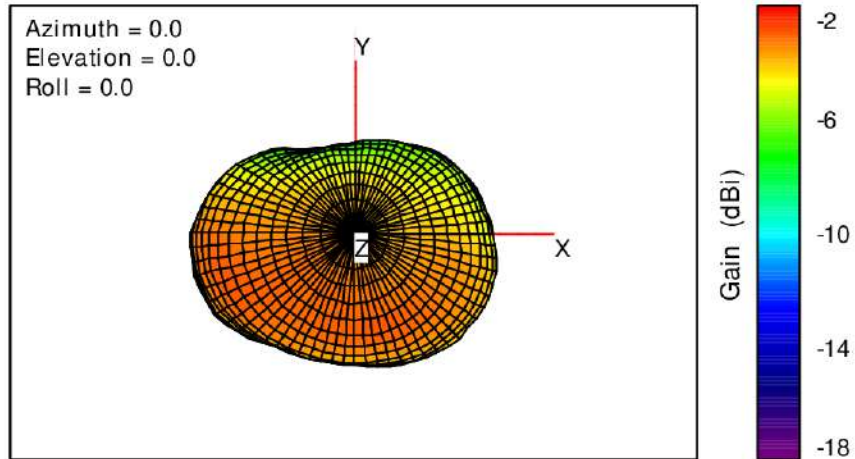


Total

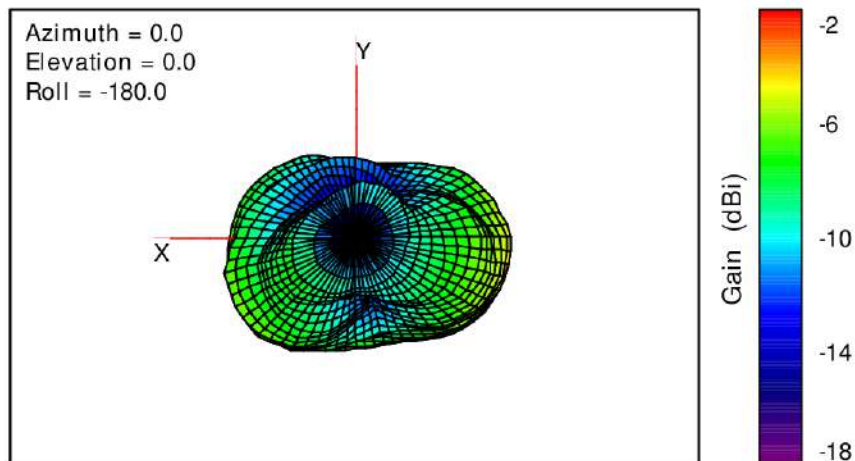


Free Space for 2447MHz

Total

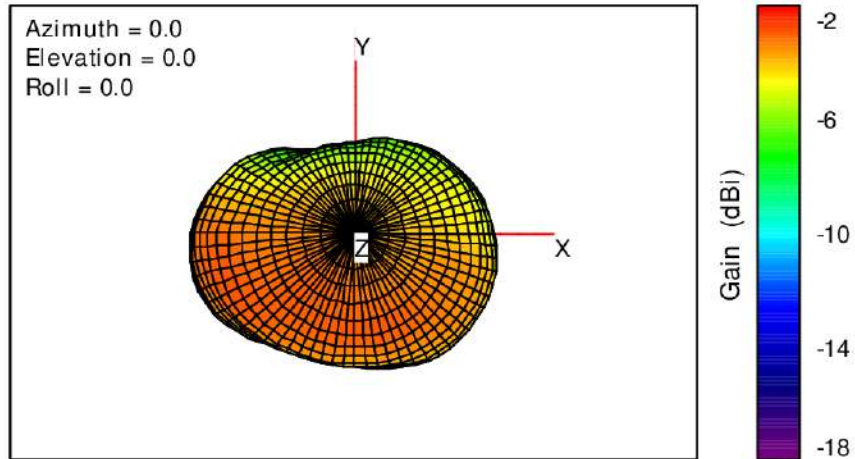


Total

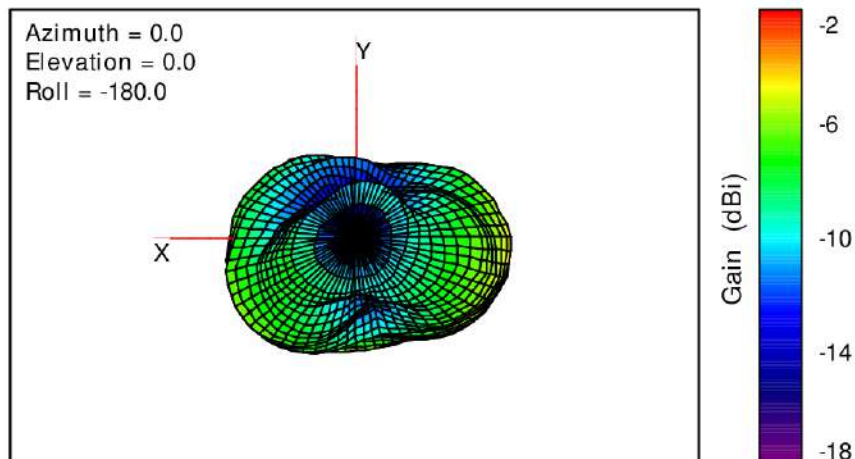


Free Space for 2452MHz

Total

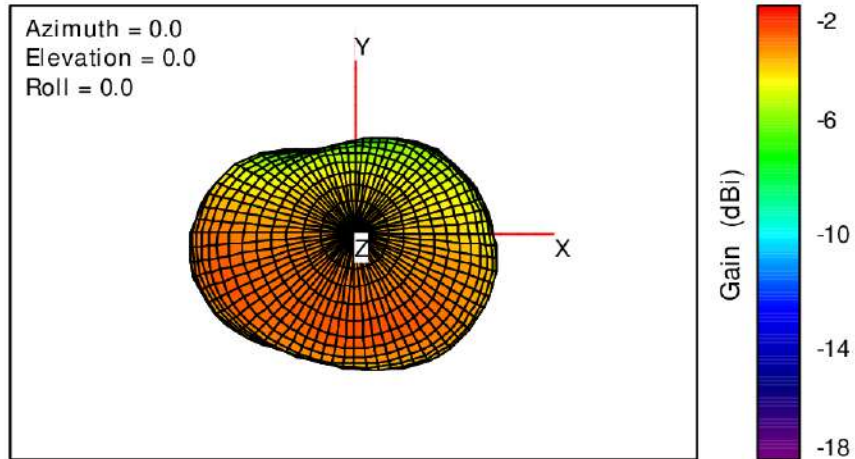


Total

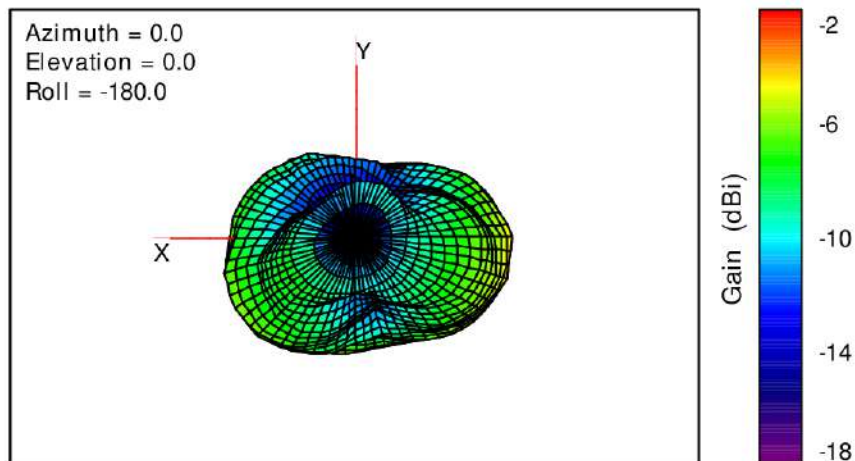


Free Space for 2457MHz

Total

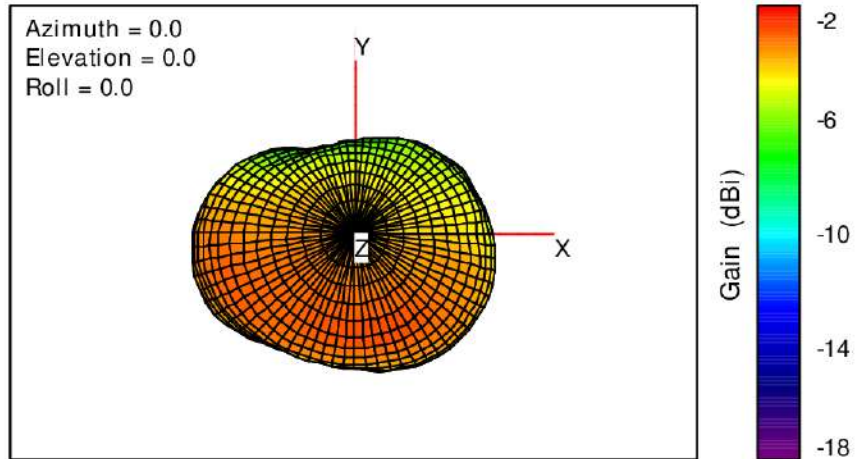


Total

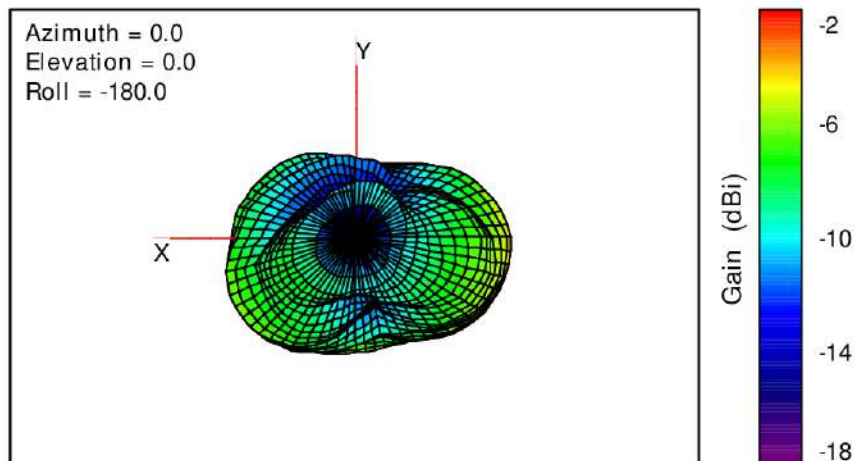


Free Space for 2462MHz

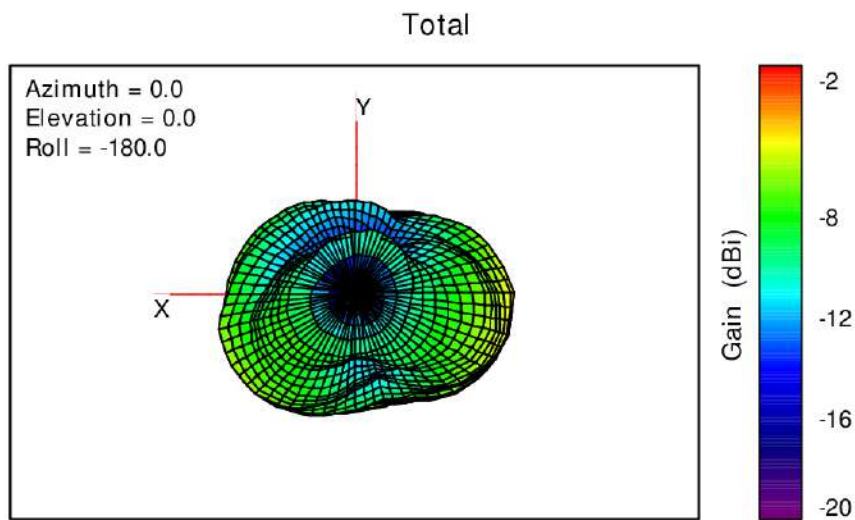
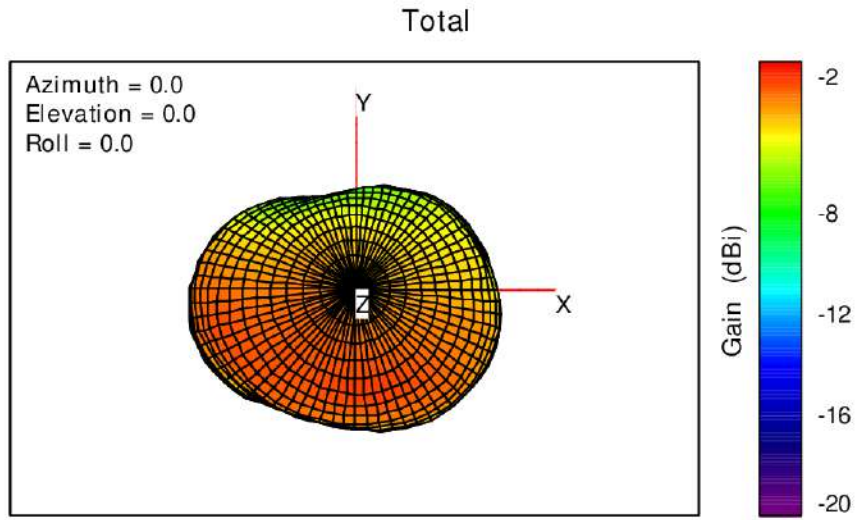
Total



Total



Free Space for 2467MHz



Free Space for 2472MHz

--THE END--