



Wireless Device Over the Air Performance Test Report

REPORT NO.	OQ662605
APPLICANT	: AzureWave Technologies, Inc.
MANUFACTURER	: AzureWave Technologies, Inc.
EQUIPMENT	: 2.4GHz / 5GHz Printed Antenna
DATE OF RECEIPT	: June 12, 2026
DATE OF TEST	: June 12, 2026
ISSUE DATE	: August 27, 2026

Reviewed by:


SPORTON LAB.

Tim Kao / Vice Manager

We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the procedures and shown the compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

The declared product specification for EUT presented in this report is provided by the manufacturer / applicant, and the manufacturer / applicant takes all the responsibilities for the accuracy of product specification.

SPORTON INTERNATIONAL INC.



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Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
OQ662605	1.0	Initial issue of report	August 27, 2026



1. Test Laboratory

1.1. Main Test Laboratory

Test Site	Sporton International Inc. Wensan Laboratory
Telephone Number	TEL: +886-3-327-0838; FAX: +886-3-327-0855
Address	No.58, Aly. 75, Ln. 564, Wenhua 3rd Rd., Guishan Dist., Taoyuan City 333, Taiwan
Chamber	☒ OTA07-HY ☐ OTA08-HY ☐ OTA10-HY

■: The chamber(s) which used to perform the test in this test report.



2. Client Information

2.1 Applicant

Company Name	AzureWave Technologies, Inc.
Address	8F., No.94, Baozhong Rd. , Xindian Dist., New Taipei City , Taiwan 231

2.2 Manufacturer

Company Name	AzureWave Technologies, Inc.
Address	8F., No.94, Baozhong Rd. , Xindian Dist., New Taipei City , Taiwan 231

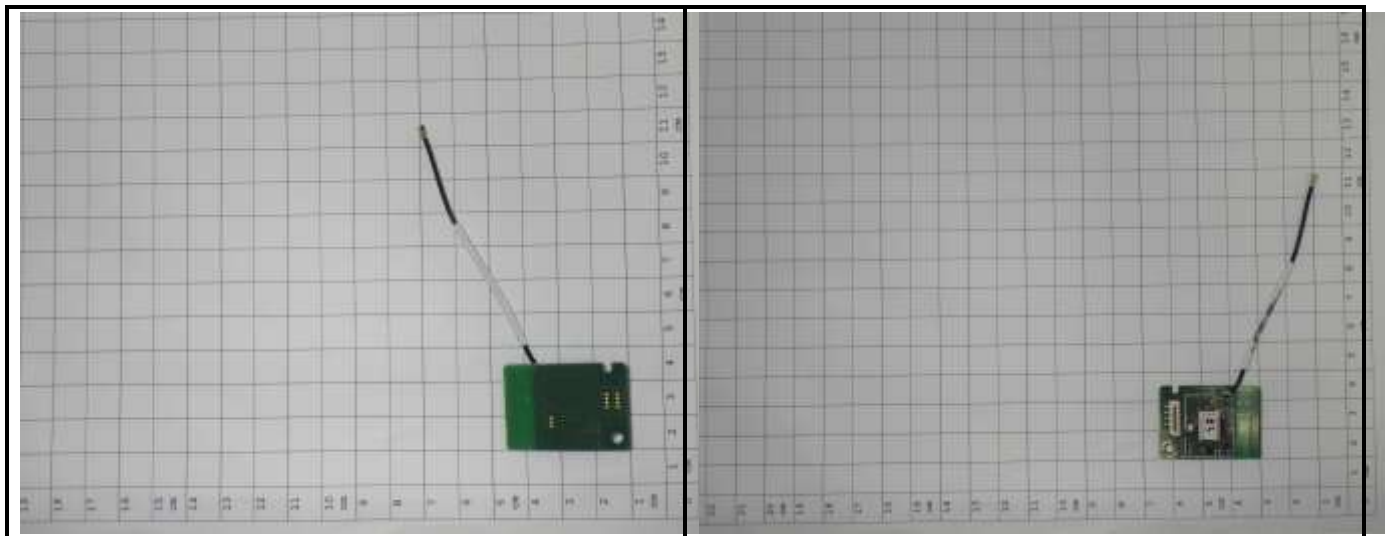


3. Device Under test(DUT) Information

3.1 Description of DUT

Product Feature & Specification	
EUT Type	2.4GHz / 5GHz Printed Antenna
Brand Name	AzureWave
Model Name	AW-XM710-ANT
Antenna Type	Monopole Antenna

3.2 Product Photo





4. Measurement Environment

Ambient Condition

Temperature (°C):	25°C +/- 5°C	Humidity (%):	<60%
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4.1. Test Site of OTA07-HY

Test Equipment List

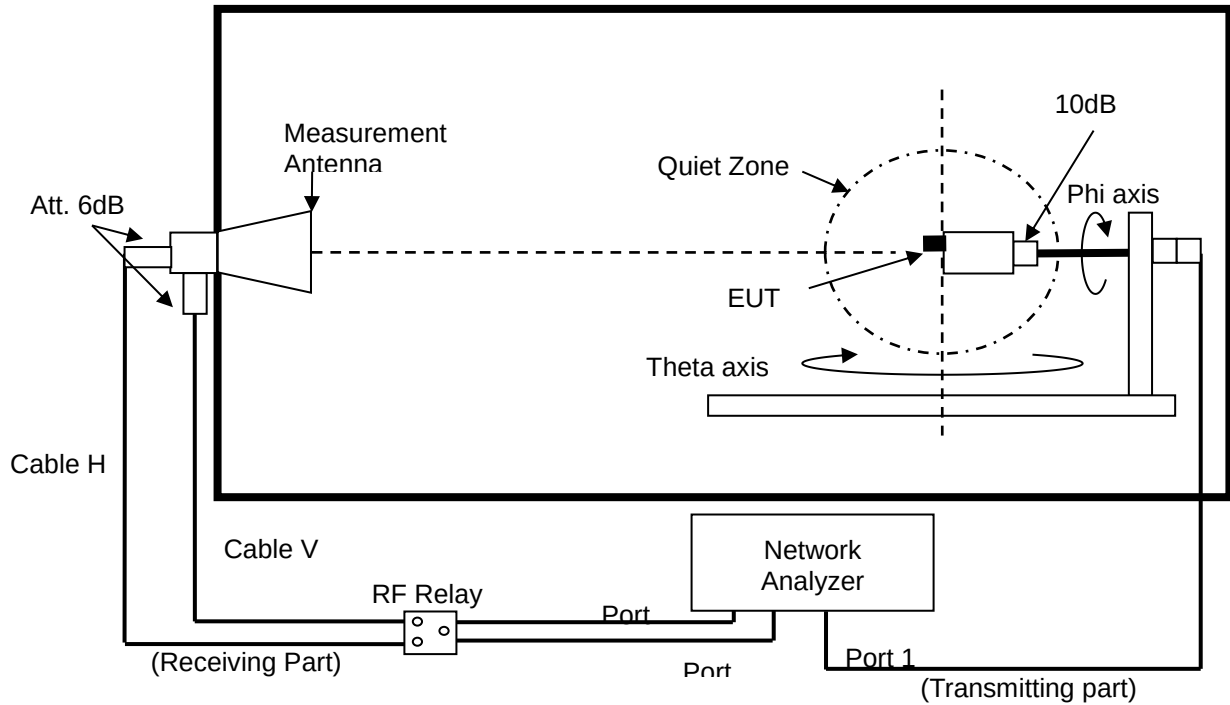
Name	Manufacturer	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
Wireless Connectivity Testet	Anritsu	MT8862A	6272445509	2025/7/10	2026/7/9
Spectrum Analyzer	R&S	FSP7	101132	2025/7/29	2026/7/28
Wireless Connectivity Tester	R&S	CMW270	100604	2025/9/10	2026/9/9
ENA Series Network Analyzer	Keysight	E5071C	MY46101588	2025/11/13	2026/11/12
Radio Communication Analyzer	Anritsu	MT8821C	6200930978	2026/5/19	2027/5/18
Measurement Horn Antenna	EMCO	3164-08	00102092	NCR	NCR
RF Switch	ETS	EMCENTER™	N/A	NCR	NCR

Measurement Uncertainty

The maximum expanded measurement uncertainty (k=2, at a 95% confidence level) as below:

Passive								
Normal	617-698 MHz	699-798 MHz	814-894 MHz	1695-1780 MHz	1850-2020 MHz	2300-2800 MHz	3300-3800 MHz	5150-5925 MHz
Free Space	1.79	1.91	1.87	1.87	1.88	1.99	2.50	2.50
Laptops over 30 cm	2.13	1.96	1.97	1.91	1.93	1.99	2.50	2.52

Passive measurement setup





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5. Summary of Test Results

5.1. Declaration

Declaration of Conformity:
The judgment of conformity in the report is based on the measurement results excluding the measurement uncertainty.
Comments and Explanations:
None

5.2. Abbreviations and Definitions

Please note the following abbreviations in this section:

FS = Free Space

**5.3. Summary Table**

Model	AzureWave _Ant#3_ 3D Gain_FS_2400-5850MHz_Step15													
Test / Position	Gain /Free Space													
Frequency	2400	2410	2450	2500	5150	5340	5350	5470	5500	5550	5720	5725	5730	5850
Tot. Rad. Pwr. (dB)	-2.02	-1.92	-1.54	-2.13	-2.38	-2.86	-3.18	-3.13	-2.95	-3.14	-2.86	-3.00	-3.01	-2.78
Peak EIRP (dB)	2.37	2.51	2.81	2.22	1.07	0.96	0.72	0.97	1.32	1.22	1.69	1.54	1.15	2.19
Directivity (dBi)	4.40	4.43	4.35	4.36	3.46	3.82	3.90	4.10	4.28	4.36	4.55	4.54	4.16	4.97
Efficiency (dB)	-2.02	-1.92	-1.54	-2.13	-2.38	-2.86	-3.18	-3.13	-2.95	-3.14	-2.86	-3.00	-3.01	-2.78
Efficiency (%)	62.74	64.22	70.08	61.19	57.76	51.75	48.04	48.65	50.65	48.52	51.72	50.14	50.03	52.75
Gain (dBi)	2.37	2.51	2.81	2.22	1.07	0.96	0.72	0.97	1.32	1.22	1.69	1.54	1.15	2.19
NHPRP $\pm\pi/4$ (dB)	-2.63	-2.54	-2.17	-2.78	-4.34	-4.72	-5.05	-4.99	-4.82	-4.99	-4.60	-4.75	-4.48	-4.57
NHPRP $\pm\pi/6$ (dB)	-3.74	-3.63	-3.27	-3.88	-6.32	-6.71	-7.04	-6.90	-6.69	-6.81	-6.37	-6.52	-6.35	-6.36

6. Description for EUT Testing Position

Place and fix it with tape shown as below.

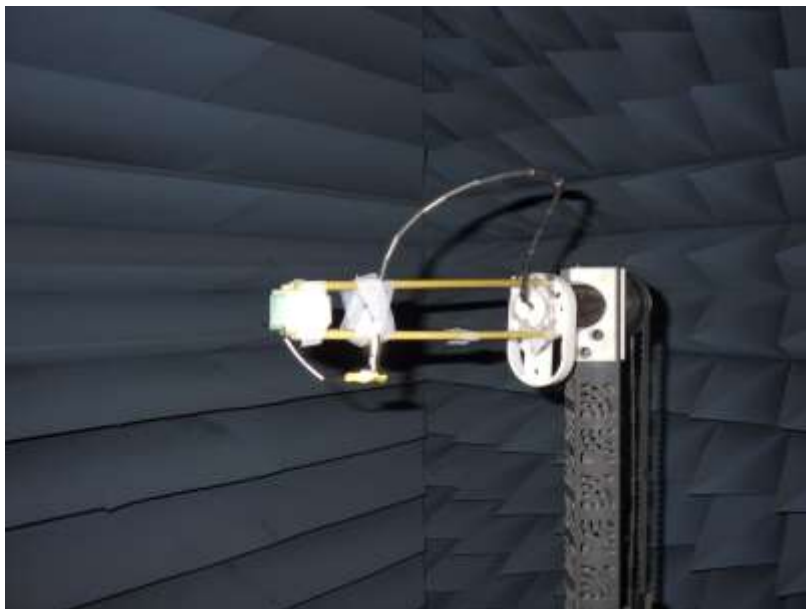


Figure 6-1 Test Position FS Front View

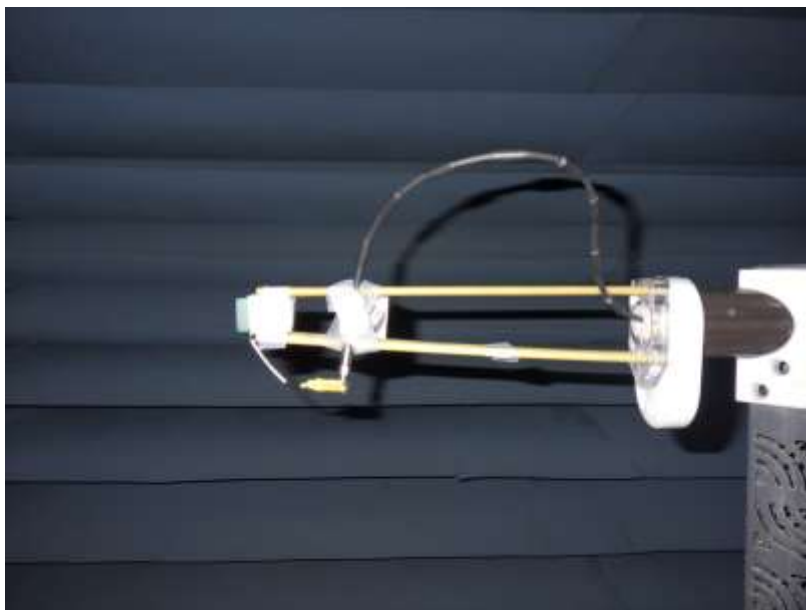
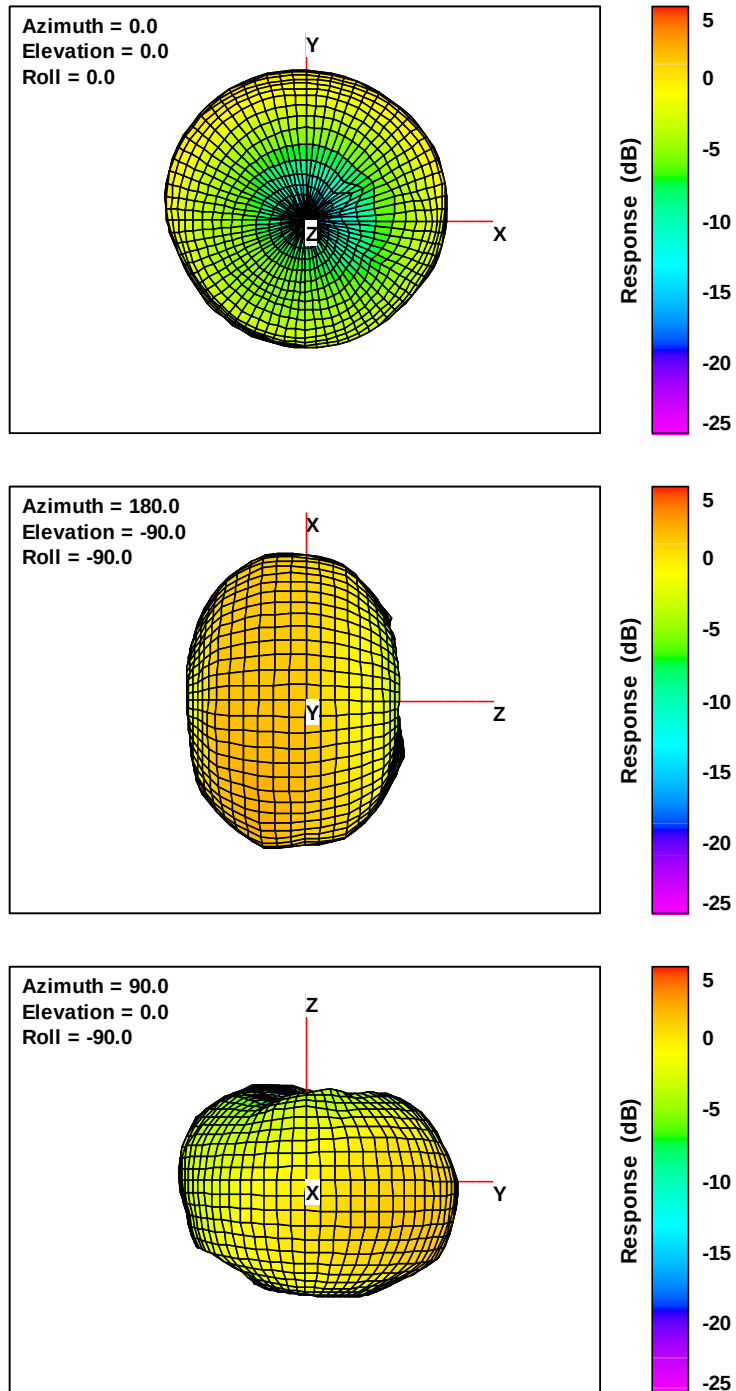


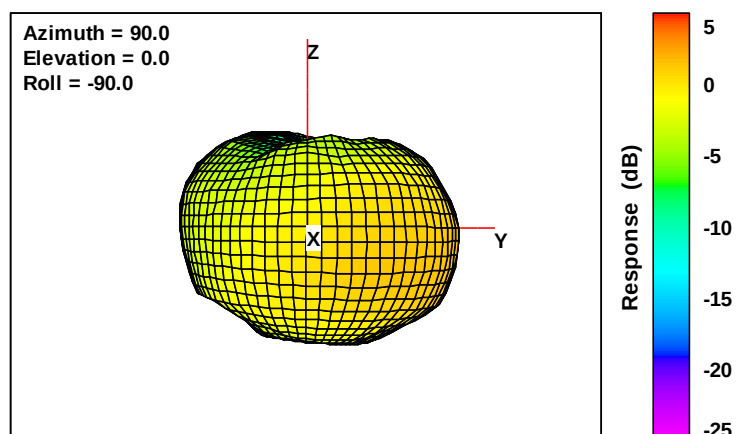
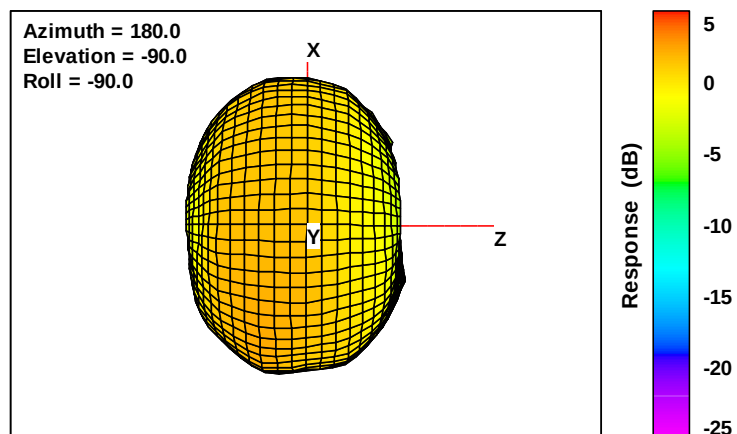
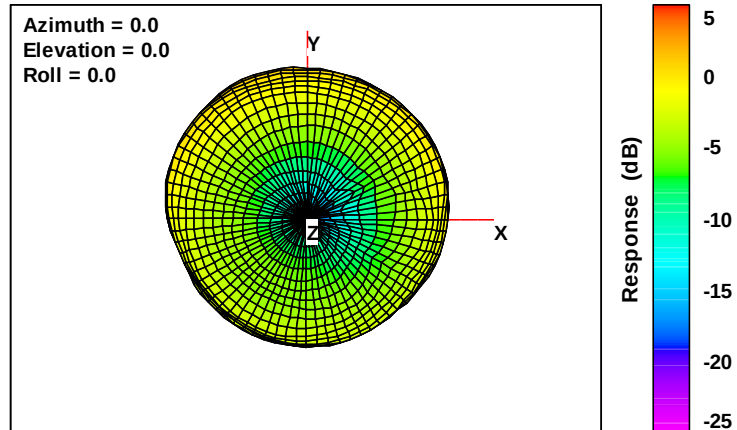
Figure 6-2 Test Position FS Side View

Appendix A 3D Pattern

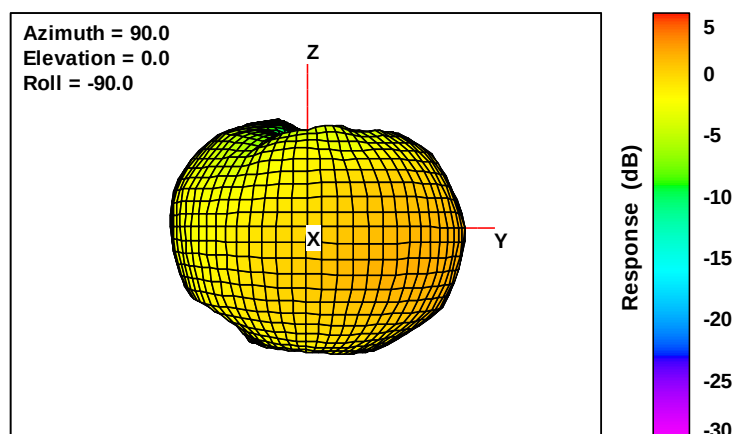
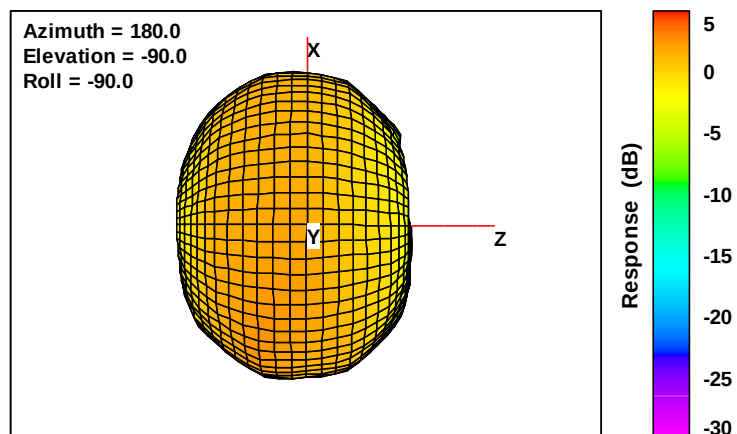
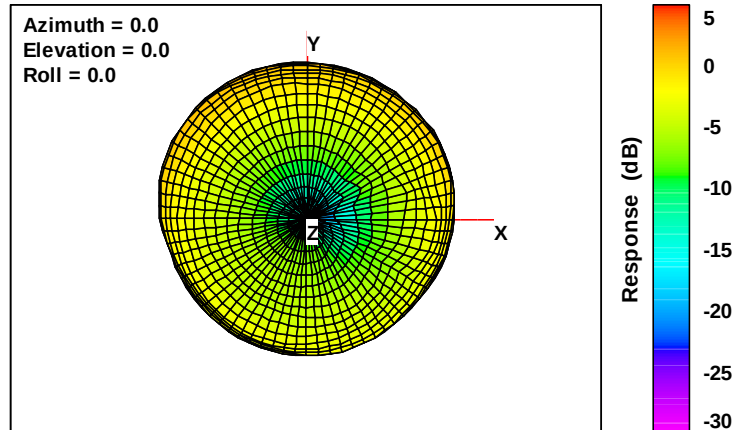
2400MHz



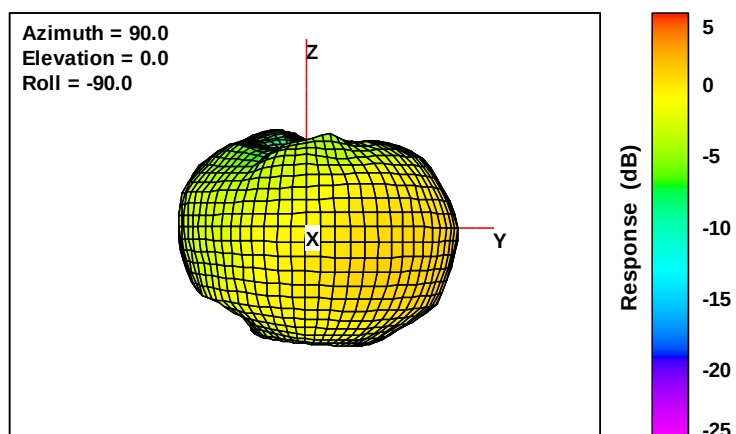
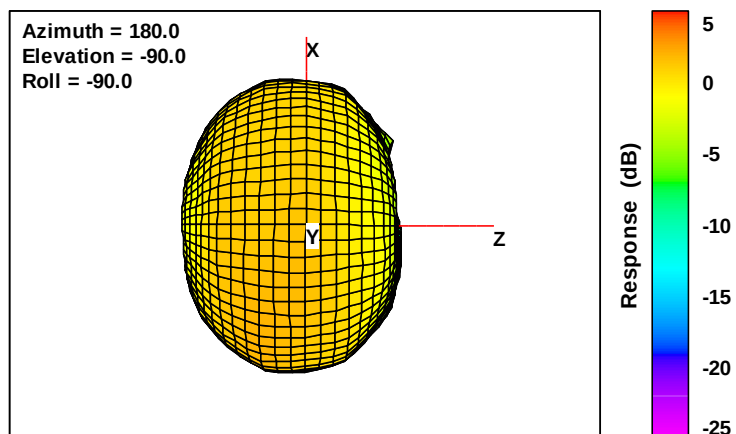
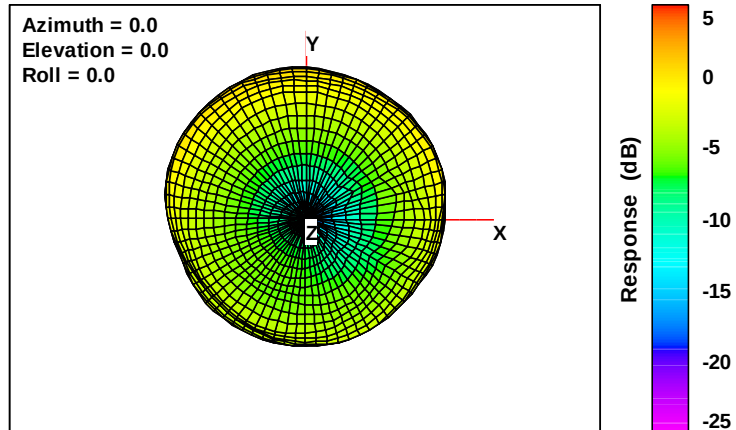
2410MHz



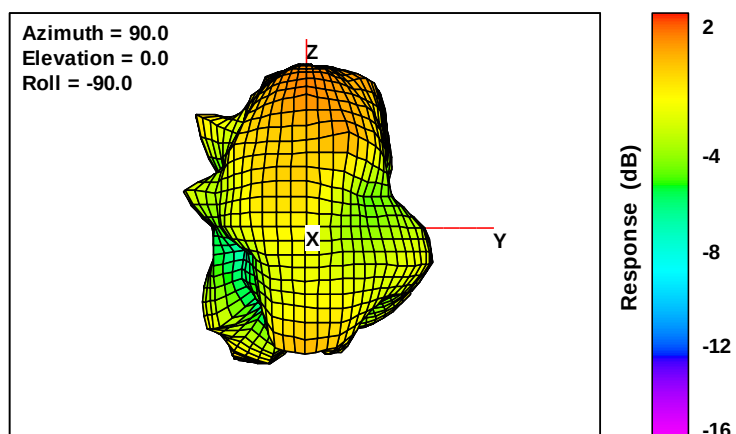
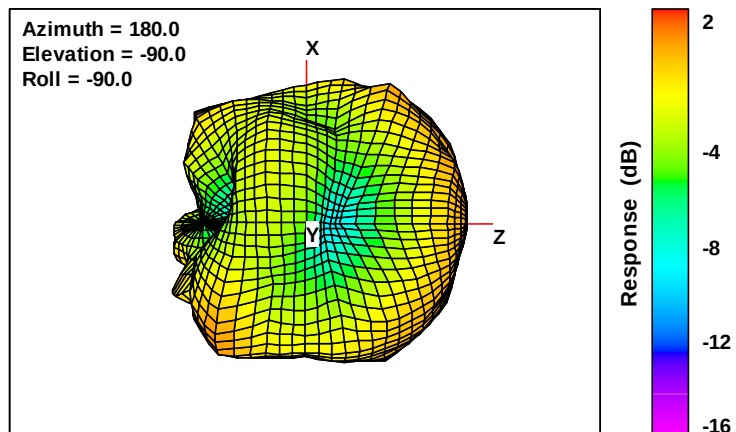
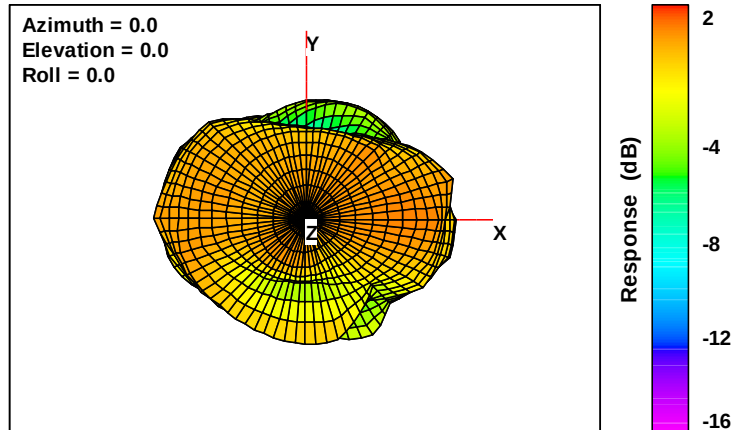
2450MHz



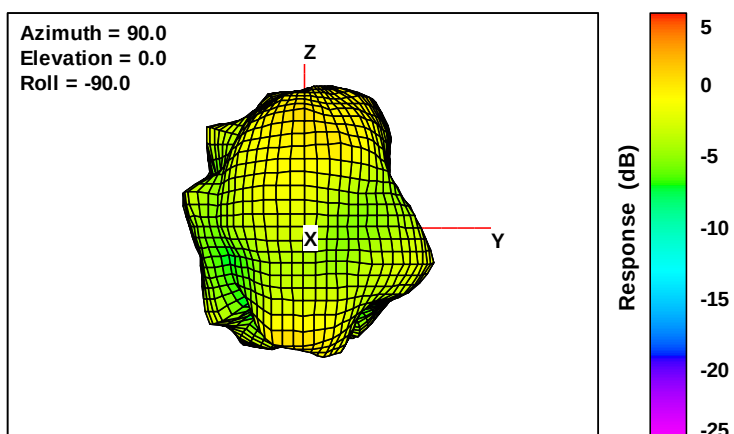
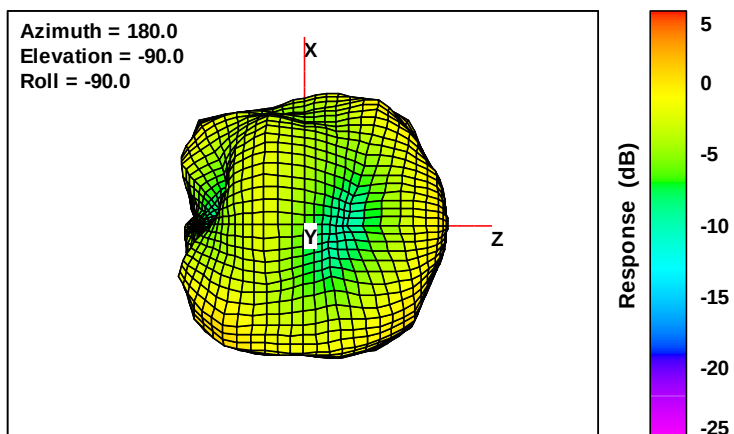
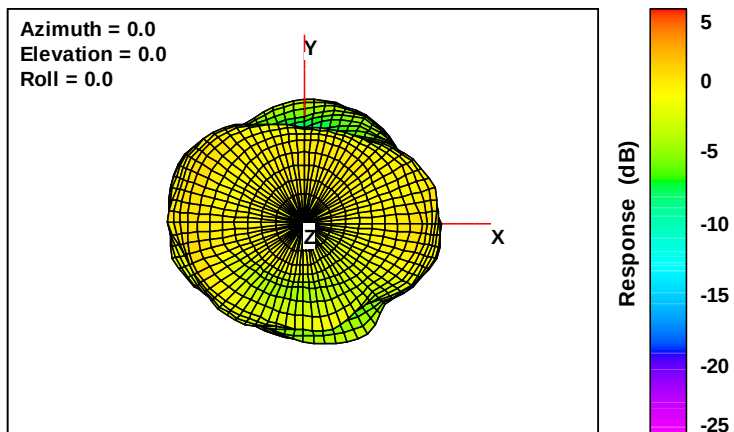
2500MHz



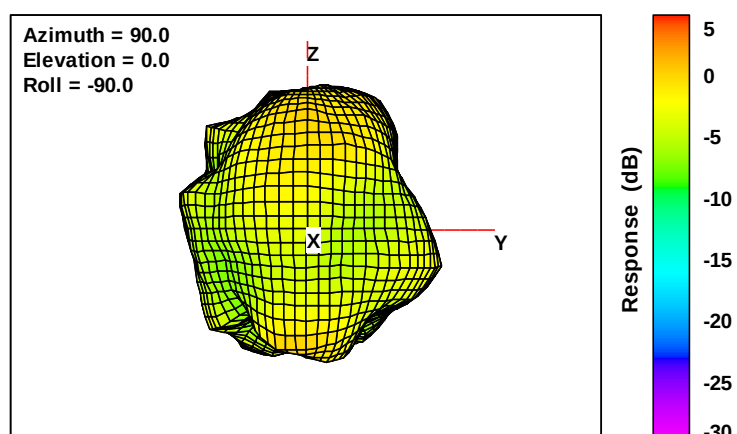
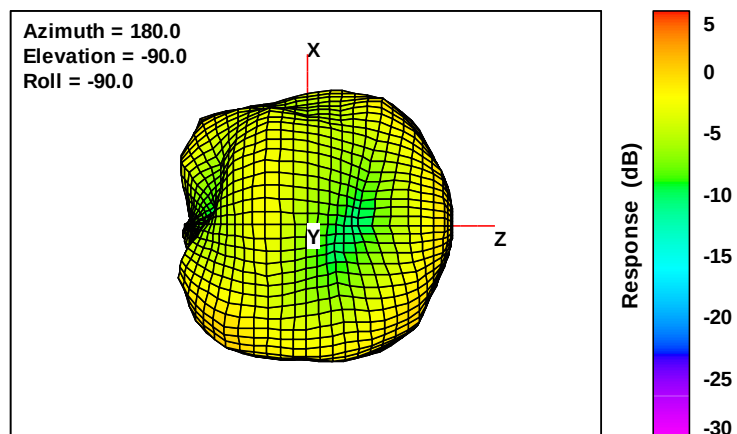
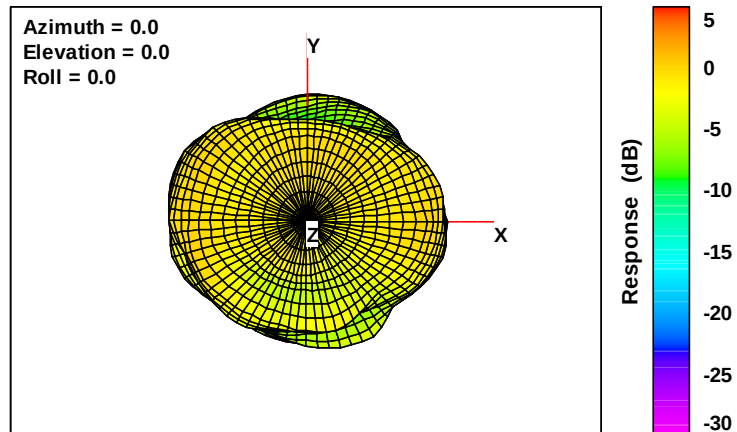
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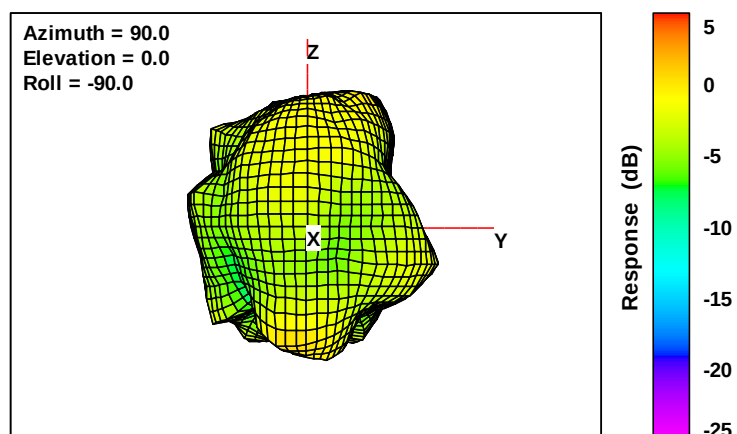
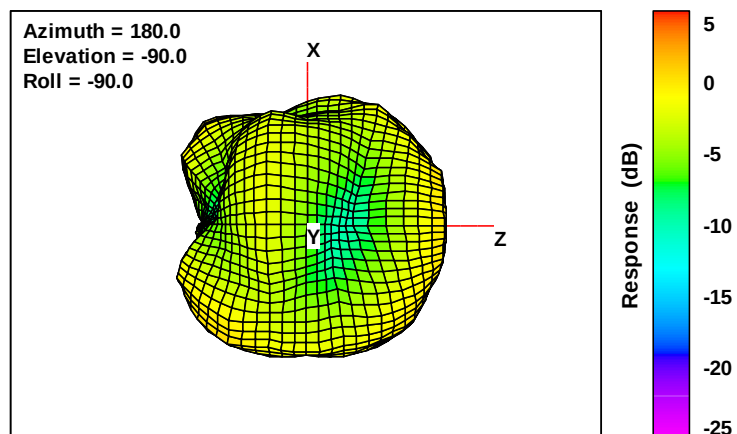
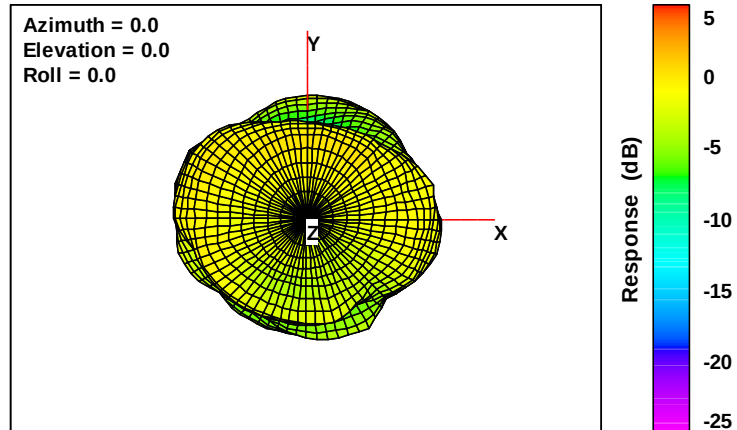
5340MHz



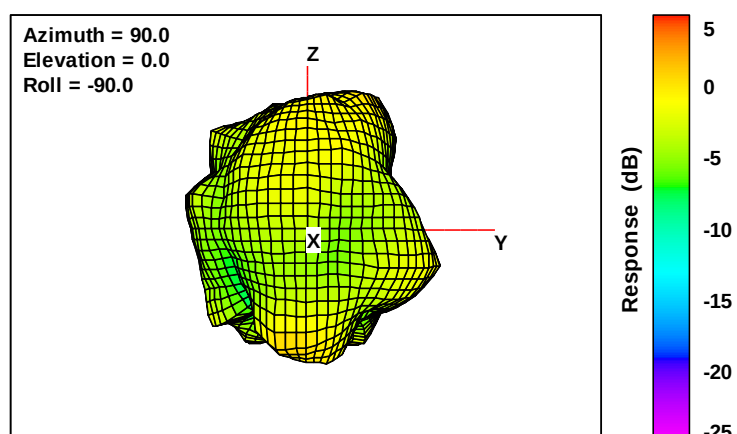
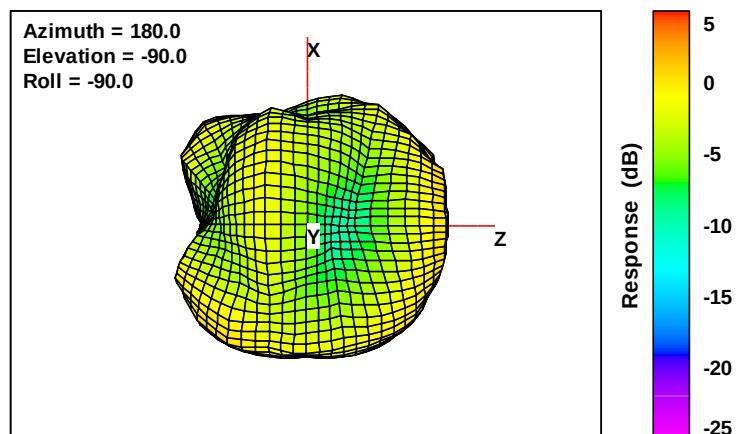
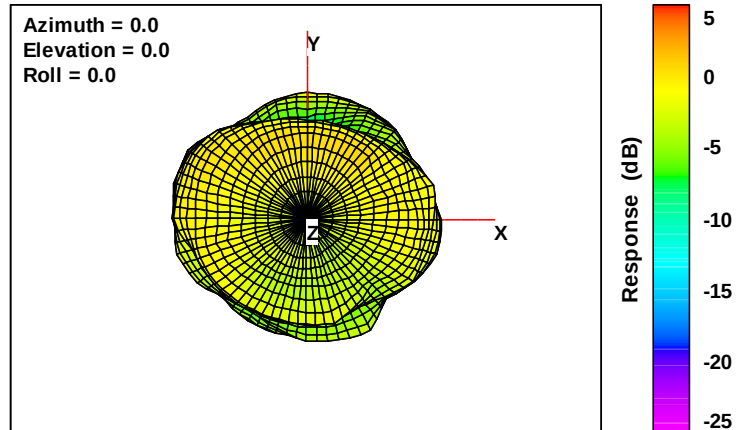
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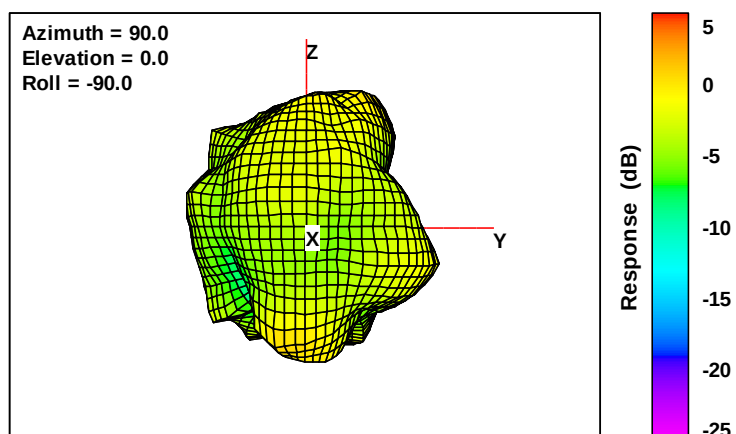
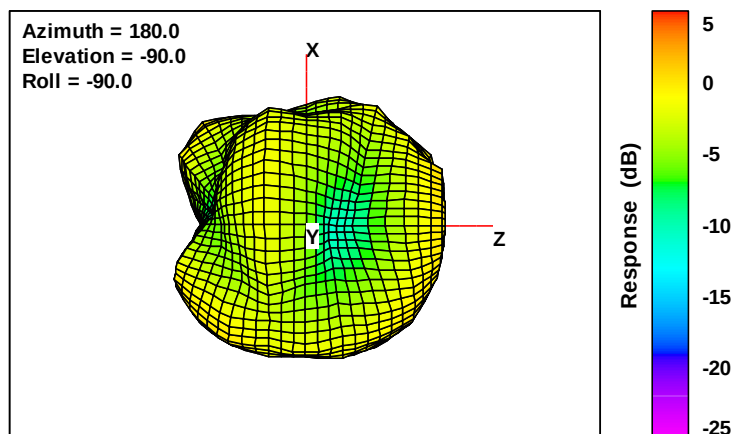
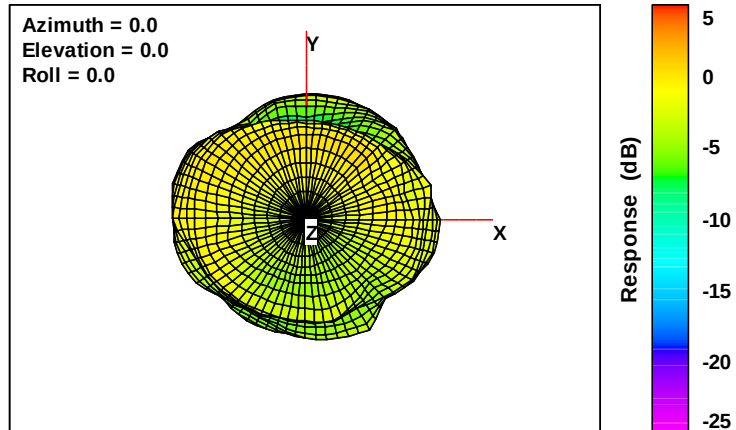
5470MHz



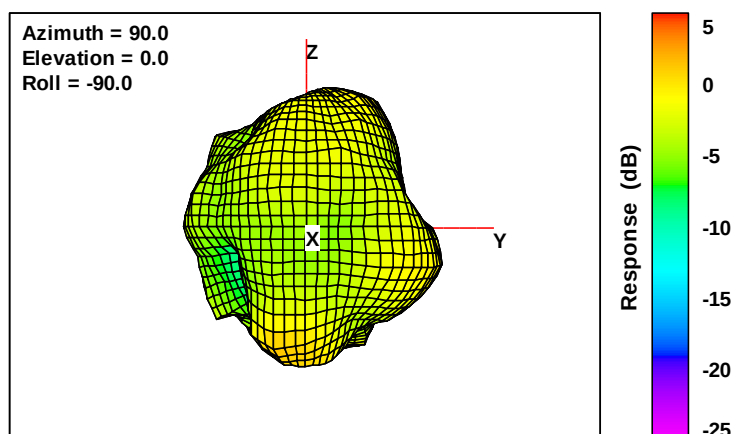
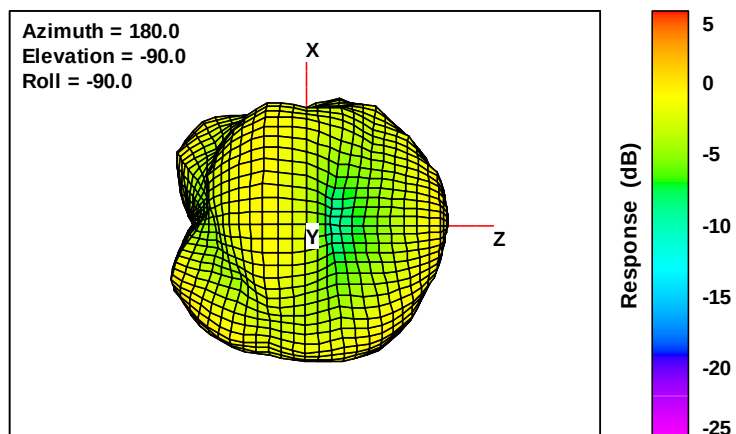
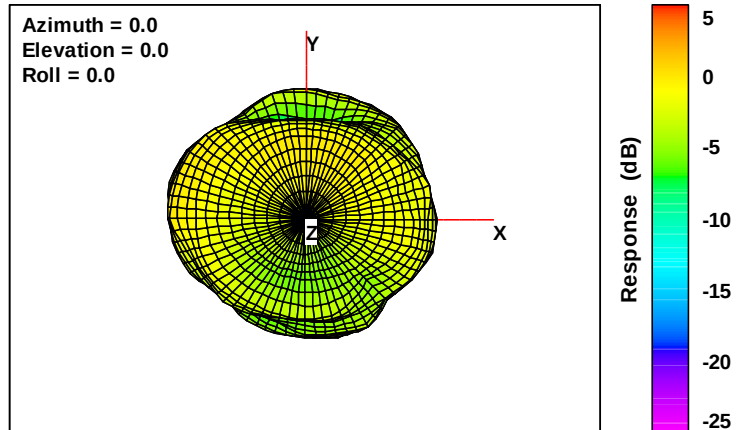
5500MHz



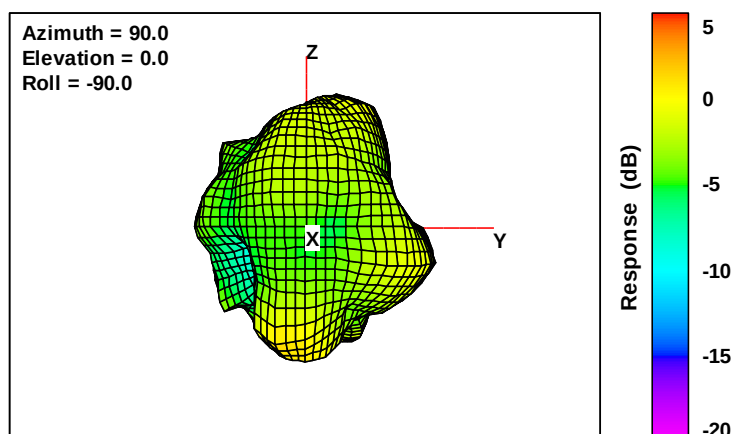
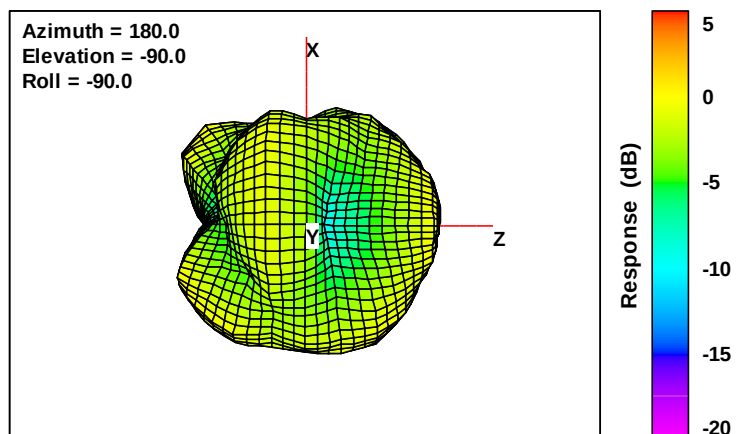
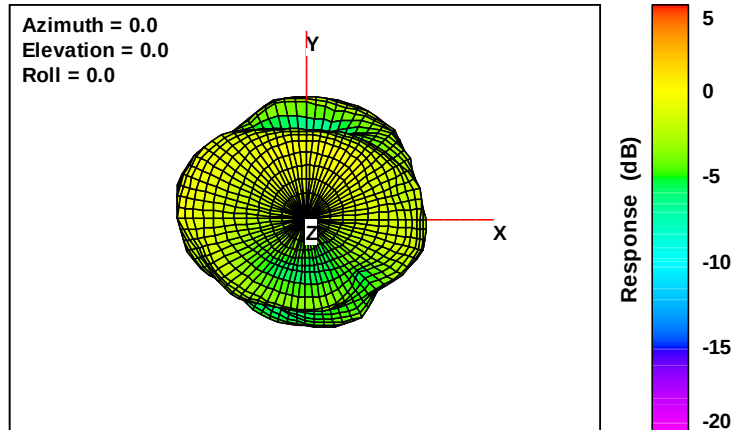
5550MHz



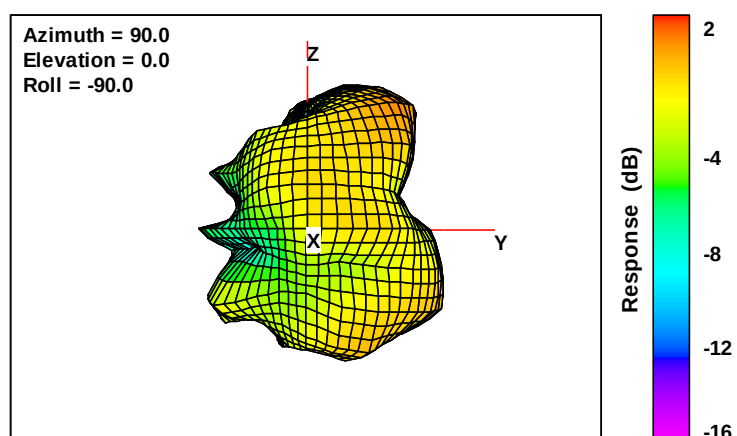
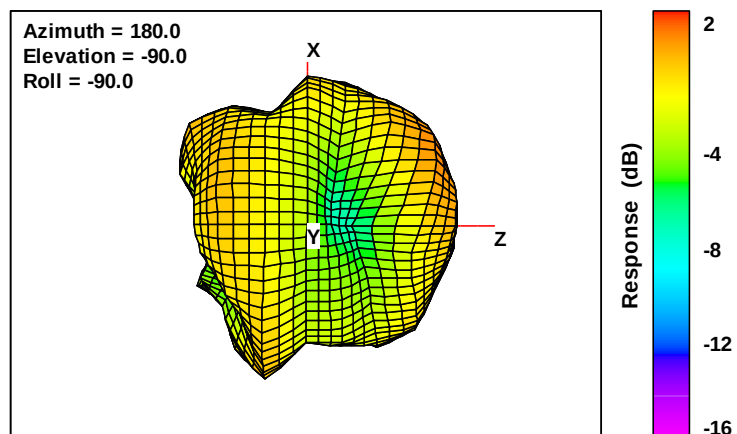
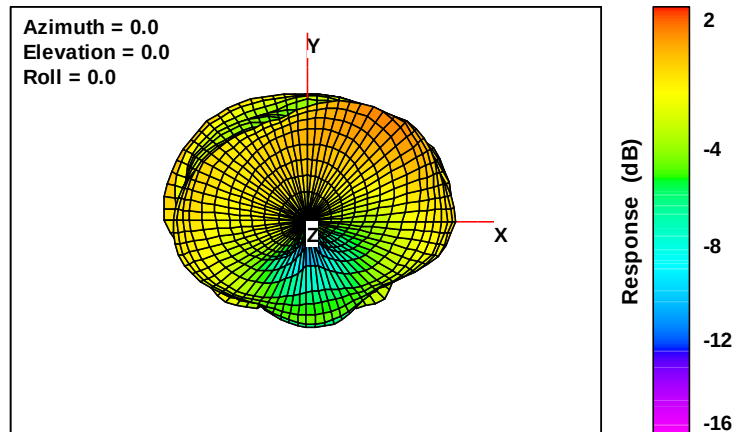
5720MHz



5725MHz



5730MHz



5850MHz

