



TEST REPORT

APPLICANT : Soundmax Electronics Limited

PRODUCT NAME : MONITOR WITH RECEIVER

MODEL NAME : DMX5710S, DMX50S, DMX500S, DMX723WS, DMX80AXS,
DMX6523S, KW-M695BW, KW-M690BW

TRADE NAME : KENWOOD, JVC

BRAND NAME : KENWOOD, JVC

STANDARD(S) : IEEE Std 149-2021

RECEIPT DATE : 2024-06-07

TEST DATE : 2024-06-27

ISSUE DATE : 2024-08-28



Edited by: Guo Penghua
Guo Penghua(Rapporteur)

Approved by: Chi Shide
Chi Shide(Supervisor)

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Change History		
Version	Date	Reason for change
1.0	2024-08-28	First edition

1. Technical Information

Note: Provide by applicant.

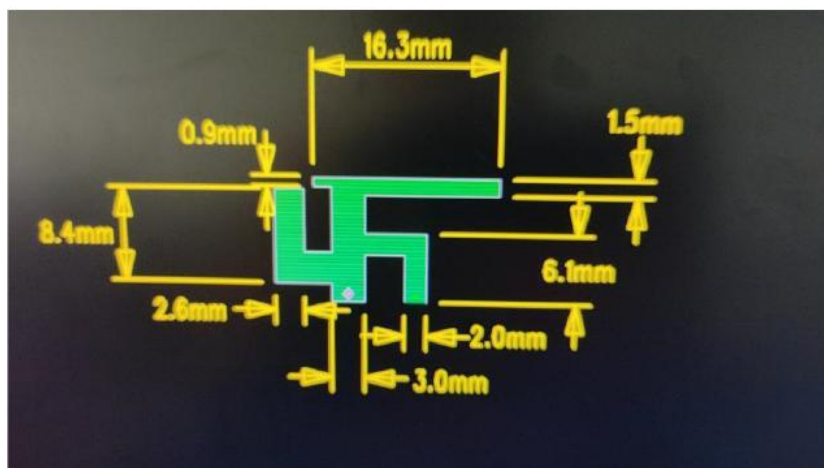
1.1. Applicant and Manufacturer Information

Applicant:	Soundmax Electronics Limited
Applicant Address:	17/F EU YANG SANG TOWER, 11-15 CHATHAM ROAD, T.S.T, KOWLOON, Hong Kong, China
Manufacturer:	Soundmax Electronics Limited
Manufacturer Address:	17/F EU YANG SANG TOWER, 11-15 CHATHAM ROAD, T.S.T, KOWLOON, Hong Kong, China
Factory:	N/A
Factory Address:	N/A

1.2. Equipment Under Test (EUT) Description

Wireless Type	Bluetooth/WiFi
Frequency	2400MHz-2500MHz/5150MHz-5850MHz
Antenna Type	PCB Antenna
Product HW Version	V1.0
Product SW Version	V1.0
IMEI	N/A
Sample No.	3#

Dimensions:





Note:

According to the certificate holder, they declared that the models DMX5710S, DMX50S, DMX500S, DMX723WS, DMX80AXS, DMX6523S, KW-M695BW, KW-M690BW have the same hardware and software, the differences are as bellowing, all RF parameters remain the same.

Model	Brand	Display Size	Description
KW-M695BW	JVC	6.8"	- Base Model
KW-M690BW	JVC	6.8"	Compared with base model: - No SiriusXM
DMX5710S	KENWOOD	6.8"	Compared with base model: - Different Brand
DMX50S	KENWOOD	6.8"	Compared with base model: - Different Brand
DMX500S	KENWOOD	6.8"	Compared with base model: - Different Brand - No SiriusXM
DMX6523S	KENWOOD	6.8"	Compared with base model: - No SiriusXM
DMX723WS	KENWOOD	6.8"	Compared with base model: - Different Brand - Different size of front panel - Touch keys on two sides (left & right) - No SiriusXM
DMX80AXS	KENWOOD	9"	Compared with base model: - Different Brand - Different display size and panel size - Touch keys on two sides (left & right) - No SiriusXM

2. Test Results

2.1. Applied Reference Documents

Leading reference documents for testing:

No.	Identity	Document Title
1	IEEE Std 149-2021	IEEE Recommended Practice for Antenna Measurements

2.2. Test Conditions

Test Environment Conditions:

Relative Humidity(%):	25 - 75
Temperature(°C):	10 - 30

2.3. Measurement Uncertainty

The uncertainty is calculated using the methods suggested in the “Guide to the Expression of Uncertainty in Measurement” (GUM) published by ISO. When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% Confidence intervals.



2.4. Test Results lists

2.4.1. Gain

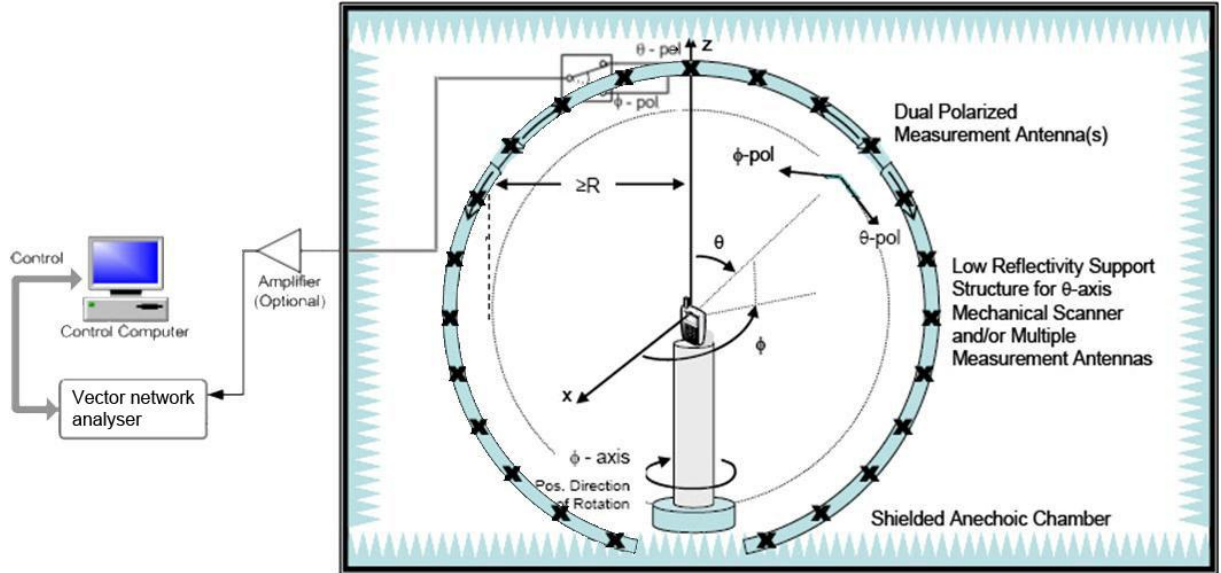
Frequency (MHz)	Gain(dBi)
2400	-4.58
2410	-4.72
2420	-4.97
2430	-4.95
2440	-4.83
2450	-4.71
2460	-4.45
2470	-4.56
2480	-4.44
2490	-4.63
2500	-4.87
5150	-4.04
5175	-4.09
5200	-4.36
5225	-4.60
5250	-4.39
5275	-4.78
5300	-5.13
5325	-5.40
5350	-5.86
5375	-6.41
5400	-7.43
5425	-7.84
5450	-7.92
5475	-7.96
5500	-8.13
5525	-8.97
5550	-9.00
5575	-8.99



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5600	-8.96
5625	-9.42
5650	-9.29
5675	-8.73
5700	-8.51
5725	-9.13
5750	-8.89
5775	-8.29
5800	-7.69
5825	-7.24
5850	-6.79

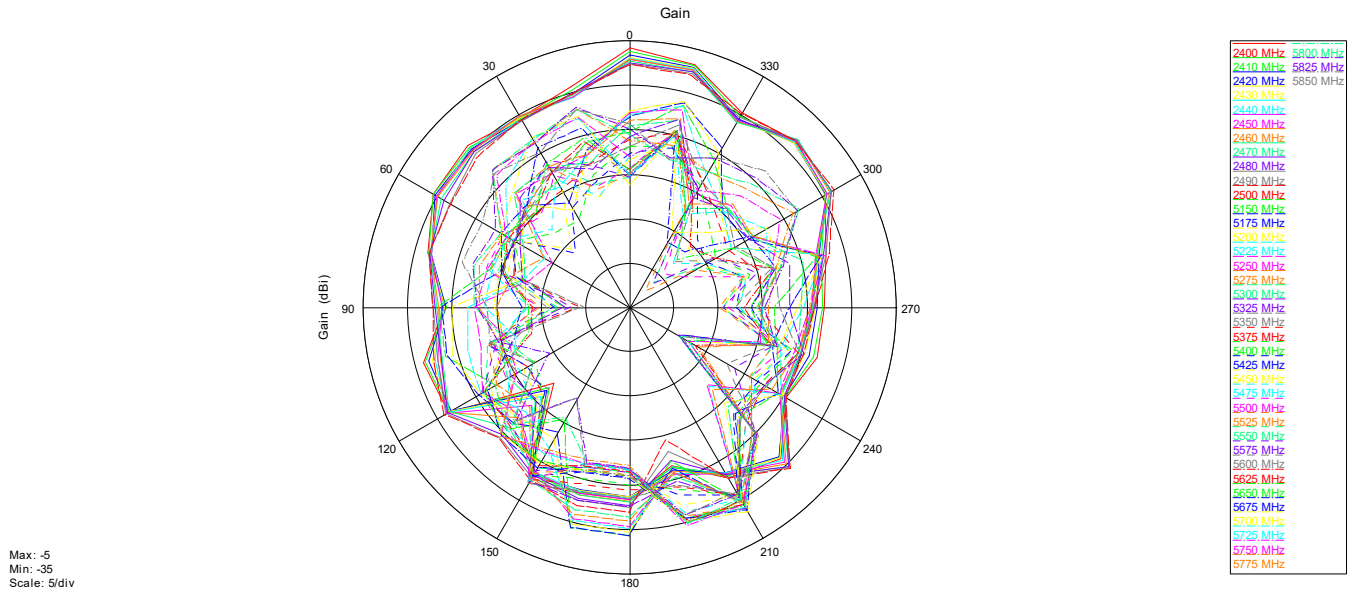
Annex A Test Setup Photos



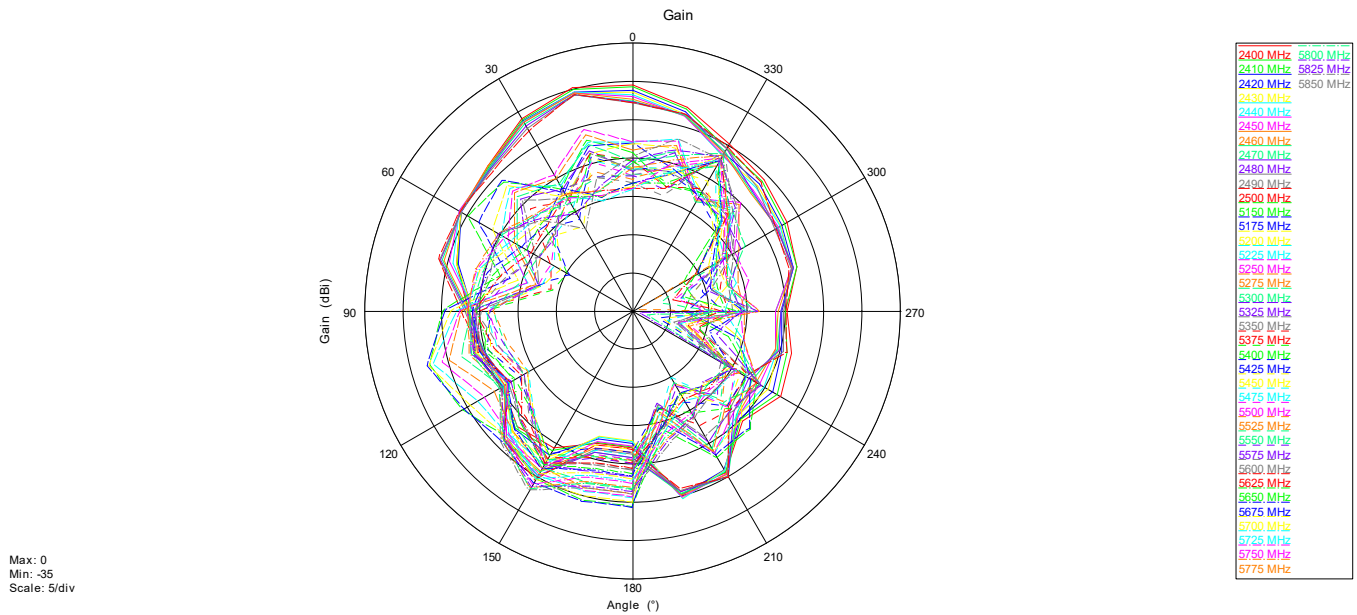


Annex B Figures

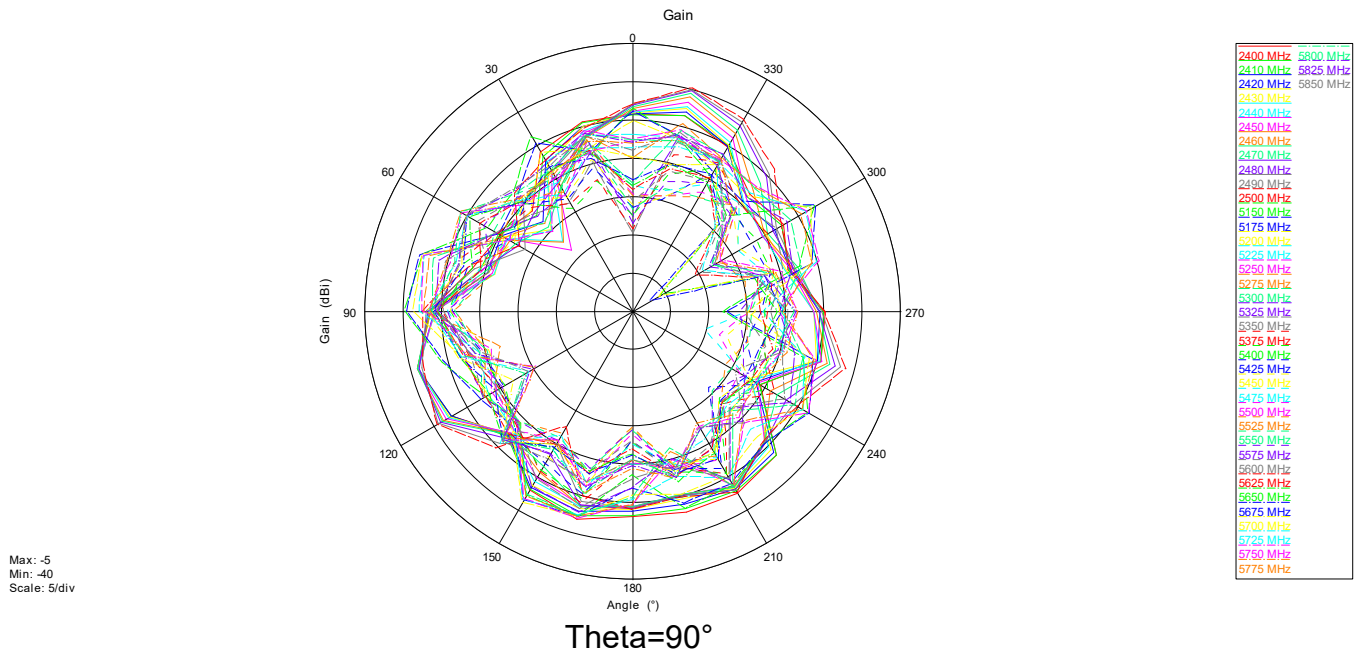
1. 2D Radiation Pattern



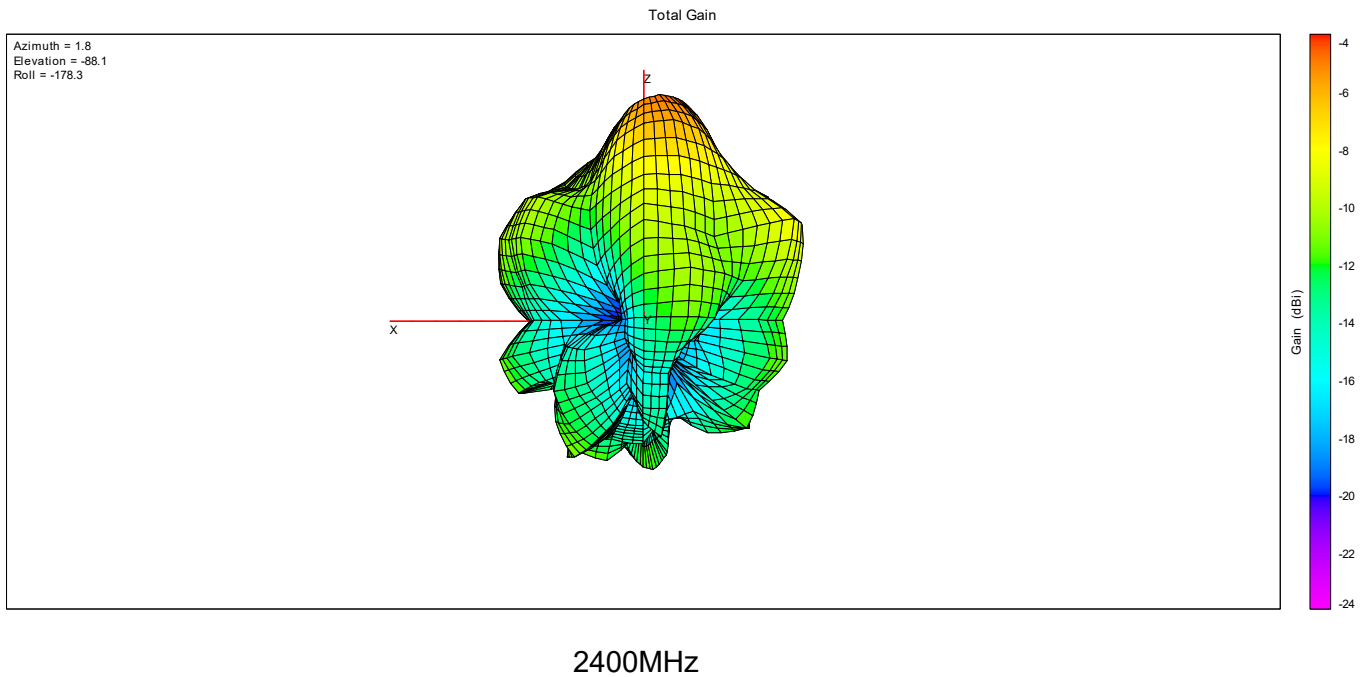
Phi=0°

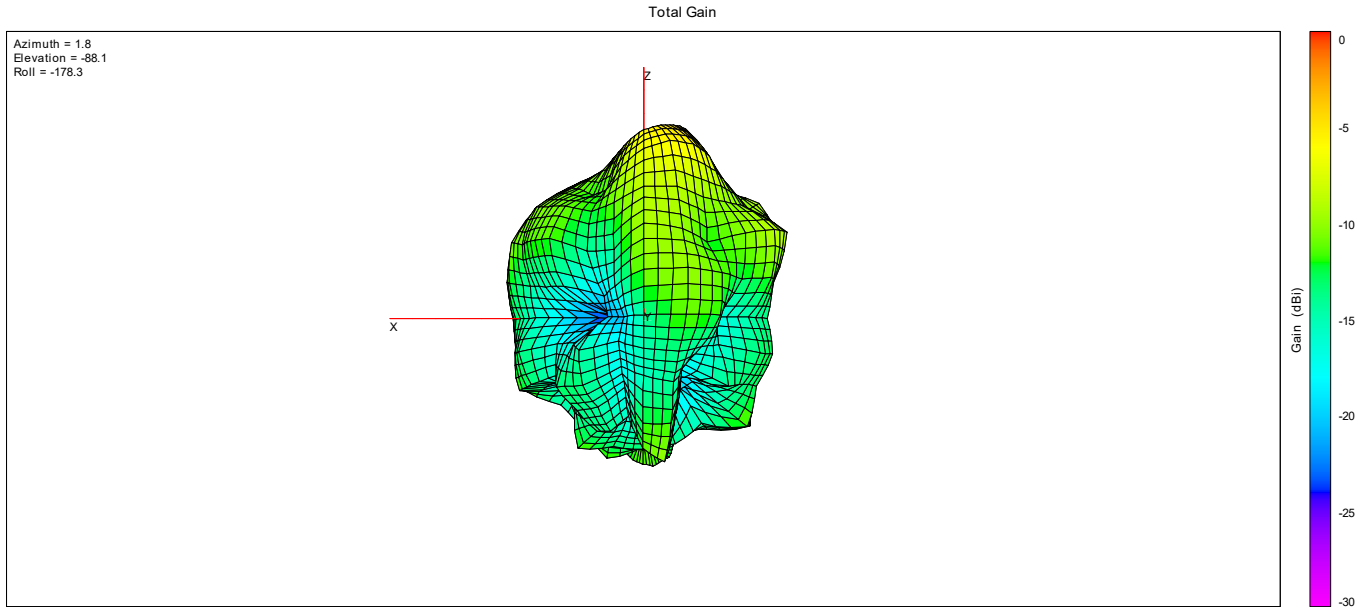


Phi=90°

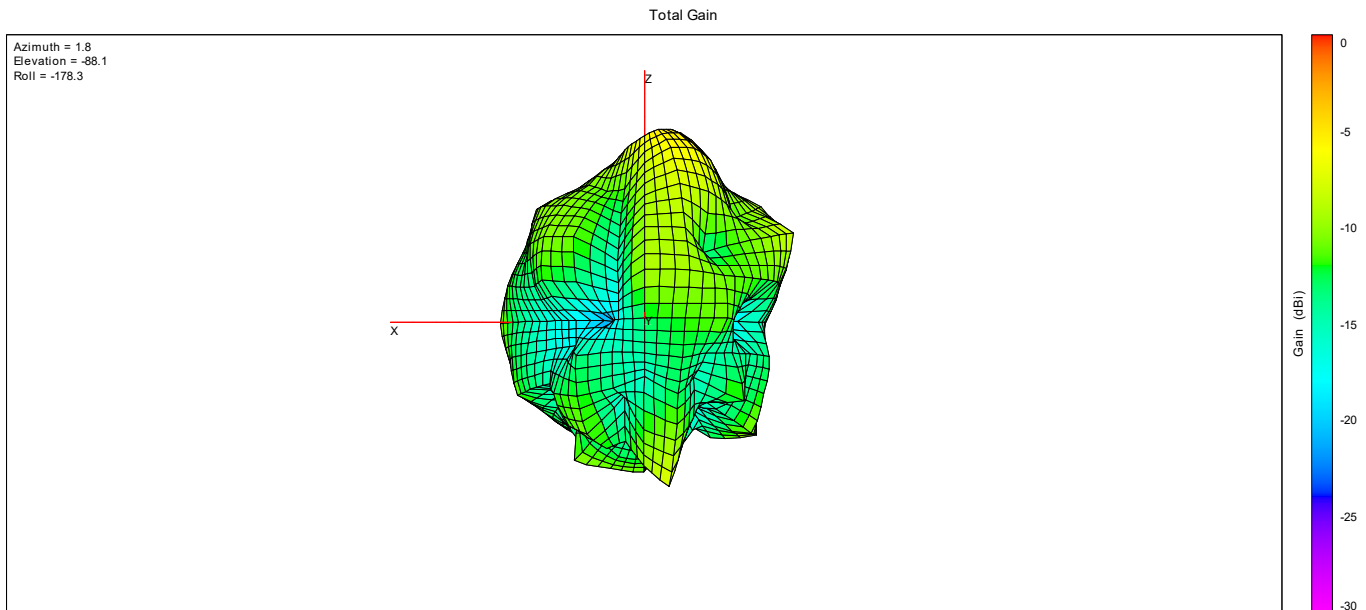


2. 3D Radiation Pattern

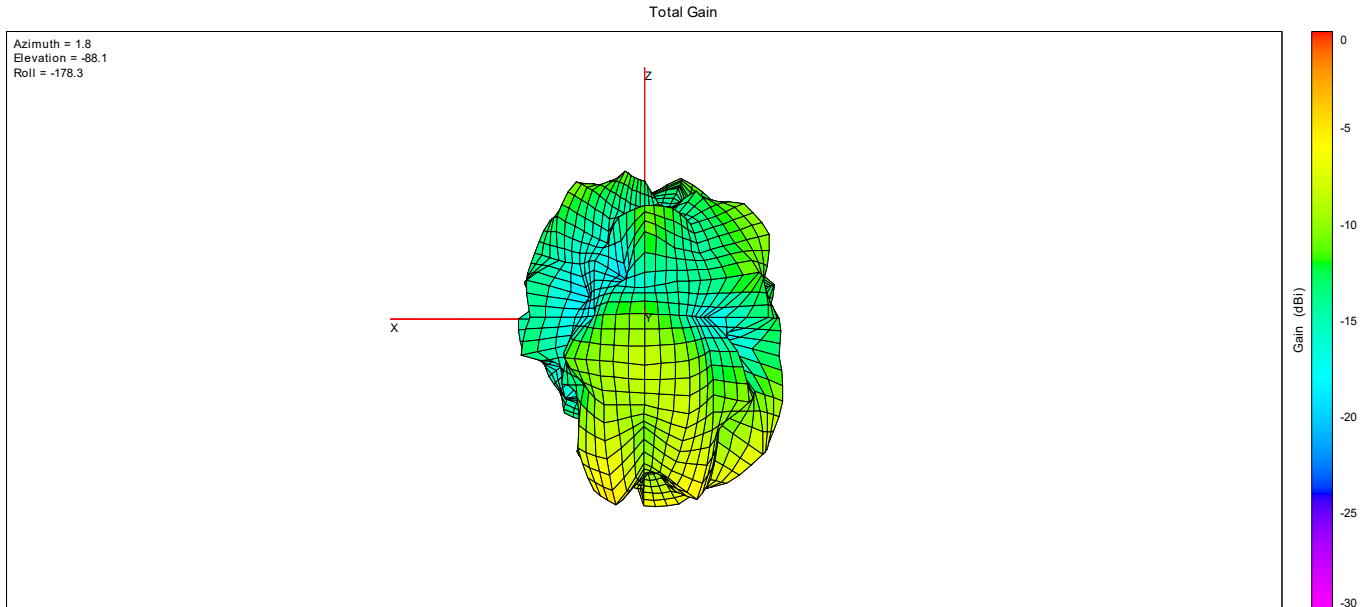




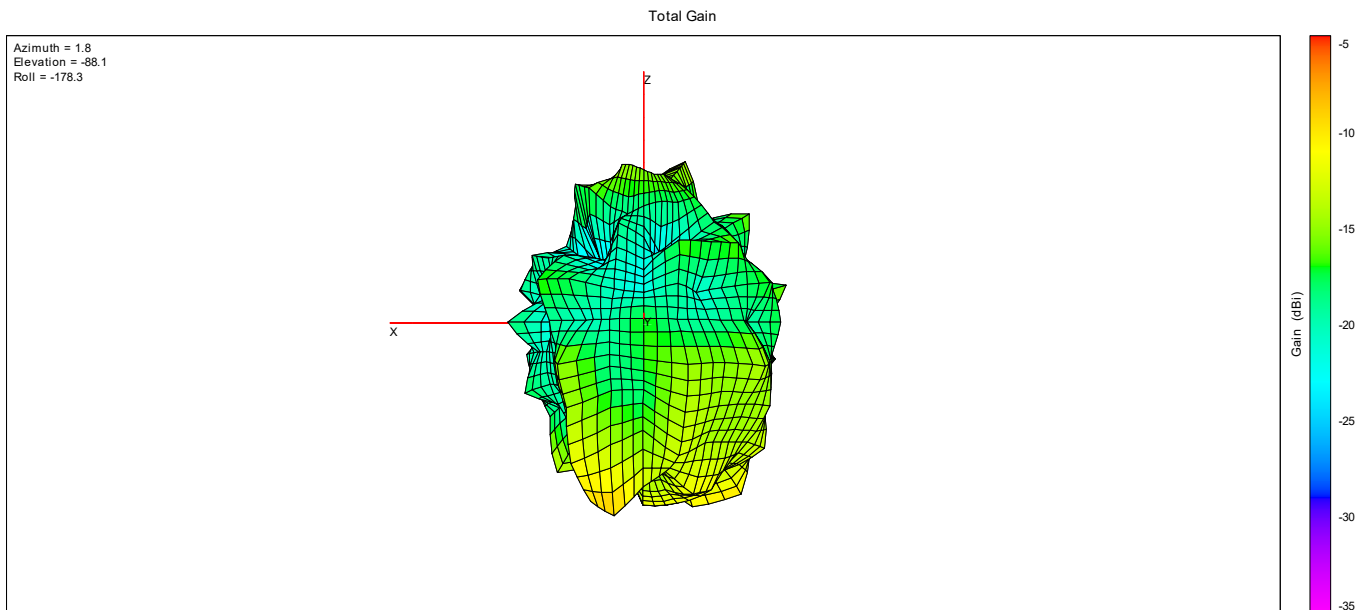
2450MHz



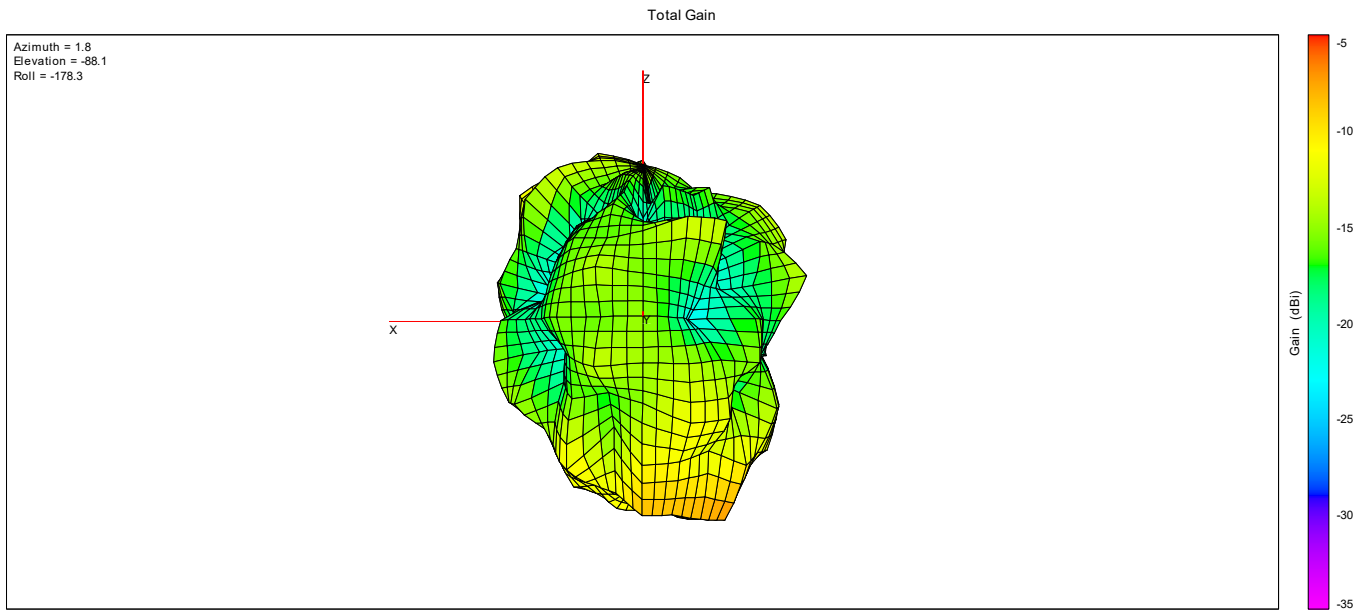
2500MHz



5150MHz



5500MHz



5850MHz



Annex C General Information

1.1 Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address:	FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block67, BaoAn District, ShenZhen , Guangdong Province, P. R. China
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

1.2 Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Address:	FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block67, BaoAn District, ShenZhen , Guangdong Province, P. R. China

1.3 Test Equipments Utilized

No.	Equipement Name	Serial No.	Type	Manufacturer	Cal.Date	Cal.Due Date
1	Network Analyzer	MY46110140	E5071C	Agilent	2024.05.30	2025.05.29
2	OTA Chamber	TJ2235-Q1793	AMS-8923 -150	ETS	2022.11.30	2025.11.29

1.4 Test Software Utilized

No.	Software Name	Serial No.	Version	Manufacturer
1	Antenna Measurement System	1685	EMQuest EMQ-100 V 1.13 Build 21267	ETS

Note:The Main report is end here and the other Annex D will be submitted separately.

————— END OF MIAN REPORT —————