

TEST REPORT

Reference No...... : WTF24X08182132W
Applicant..... : FULL TECHNOLOGY TRADE LIMITED
Address..... : RM 13,UNIT A1,2/F.,PHASE 1,KAISER ESTATE,NO.41 MAN YUE
STREET,HUNG HOM,KLN HONG KONG
Manufacturer..... : FULL TECHNOLOGY TRADE LIMITED
Address..... : RM 13,UNIT A1,2/F.,PHASE 1,KAISER ESTATE,NO.41 MAN YUE
STREET,HUNG HOM,KLN HONG KONG
Product Name..... : Mobile Phone
Model No...... : IDOL
Standards..... : ANSI/ IEEE 149-2021
Date of Receipt sample.... : 2024-08-02
Date of Test..... : 2024-08-02 to 2024-08-21
Date of Issue..... : 2024-08-21
Test Report Form No...... : WTX_IEEE 149
Test Result..... : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of approver.

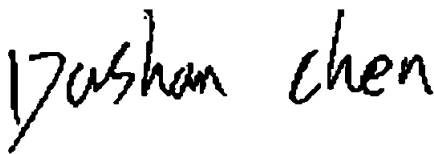
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Tested by:



Dashan Chen

Approved by:



Jason Su

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Report version

Version No.	Date of issue	Description
Rev.00	2024-08-21	Original
/	/	/

General Description of EUT	
Product Name:	Mobile Phone
Trade Name:	/
Model No.:	IDOL
Adding Model(s):	/
<i>Note: The test data is gathered from a production sample, provided by the manufacturer.</i>	

Dimension:



2. SUMMARY OF TEST RESULTS

Standards	Description of Test Item	Result
ANSI/ IEEE 149-2021	IEEE Recommended Practice for Antenna Measurements	Compliant

N/A: not applicable

3. Antenna Test Configurations

3.1 Test 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

3.2 Test Environments

Environments Parameter	Temperature	Voltage	Humidit
NTNV	25° C	--	50%

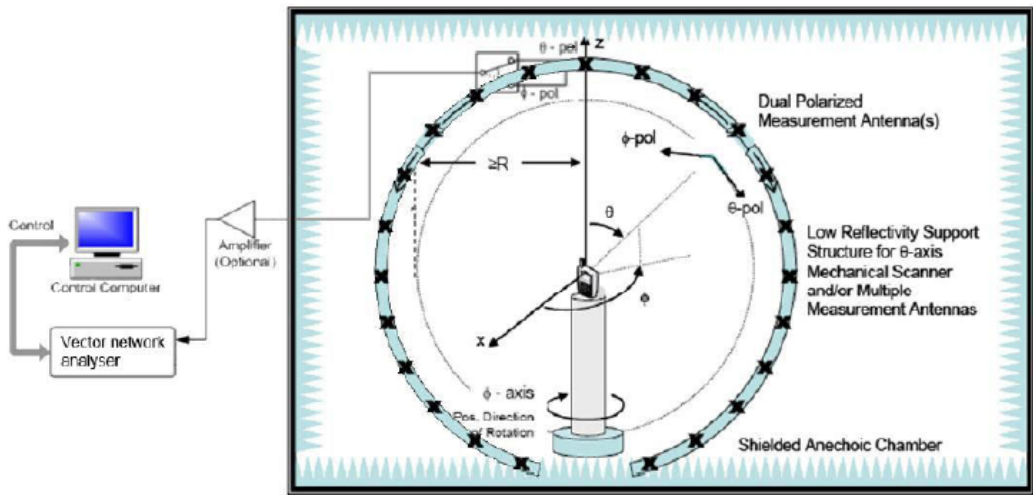
3.3 Test Equipment List

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Network Analyzer	Agilent	E5071C	MY46110140	2023-06-21	2024-06-20
OTA Chamber	ETS	AMS-8923-150	TJ2235-Q1793	2022-11-30	2025-11-29
Antenna Measurement System	ETS	EMQuest EMQ-100 V1.13 Build 21267	1685	N/A	N/A

3.4 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.

3.5 Test Setup



4. Antenna Test Result

4.1 Gain and Efficiency

Frequency(MHz)	Gain(dBi)	Efficiency (%)
2400	0.65	23.54
2410	0.57	23.44
2420	0.43	22.78
2430	0.33	22.24
2440	0.48	22.54
2450	0.84	23.25
2460	1.20	23.98
2470	1.40	23.90
2480	1.53	24.12
2490	1.60	24.10
2500	1.62	24.73
5100	3.49	35.99
5110	3.46	35.53
5120	3.33	35.17
5130	3.32	35.54
5140	3.30	35.62
5150	3.43	37.07
5160	3.60	38.18
5170	3.56	38.10
5180	3.54	37.50
5190	3.36	35.94
5200	3.23	35.08
5210	3.14	34.13
5220	2.93	33.20
5230	2.84	32.17
5240	2.72	31.04
5250	2.86	32.66
5260	2.65	31.38
5270	2.39	29.24
5280	2.21	27.78
5290	2.08	26.85
5300	2.07	26.81
5310	1.93	25.76

5320	1.76	25.28
5330	1.54	24.16
5340	1.53	24.64
5350	1.61	24.85
5360	1.56	24.83
5370	1.37	23.94
5380	1.25	22.62
5390	1.28	23.20
5400	1.03	21.93
5410	0.94	21.35
5420	0.87	21.02
5430	0.80	20.34
5440	0.83	20.71
5450	0.92	20.93
5460	1.15	21.98
5470	1.23	22.57
5480	1.31	22.91
5490	1.35	22.84
5500	1.36	23.02
5510	1.33	22.60
5520	1.36	22.86
5530	1.39	22.92
5540	1.35	22.46
5550	1.39	23.18
5560	1.44	23.46
5570	1.73	24.81
5580	1.88	25.70
5590	1.75	24.78
5600	1.78	24.72
5610	1.65	24.31
5620	1.64	24.27
5630	1.67	24.27
5640	1.49	24.12
5650	1.56	24.51
5660	1.60	25.29
5670	1.79	26.60
5680	1.84	26.65
5690	1.82	26.62
5700	1.84	26.90

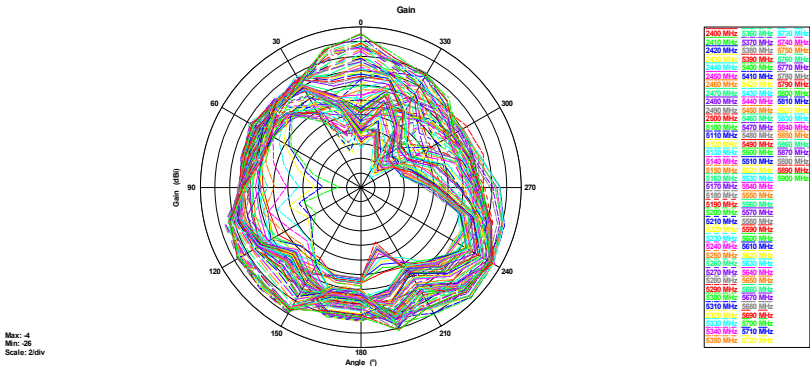
5710	1.80	26.35
5720	1.77	26.05
5730	1.71	25.70
5740	1.88	26.56
5750	1.92	26.79
5760	2.07	27.47
5770	2.17	27.99
5780	2.38	28.35
5790	2.43	28.11
5800	2.23	27.11
5810	2.31	26.97
5820	2.38	27.01
5830	2.29	26.80
5840	2.34	26.81
5850	2.48	27.83
5860	2.63	28.84
5870	2.90	29.48
5880	3.12	30.91
5890	3.12	30.33
5900	3.09	29.80

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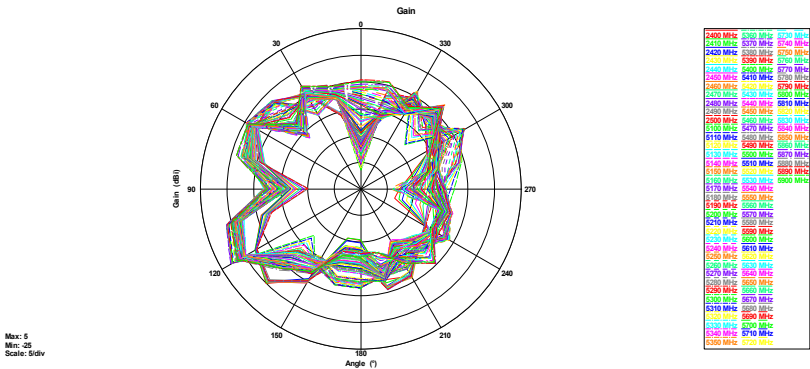
4.2 Radiation Pattern 2D View

EUT #1:

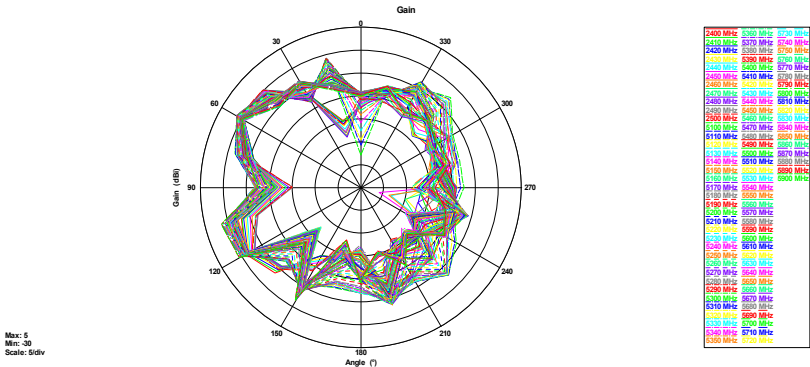
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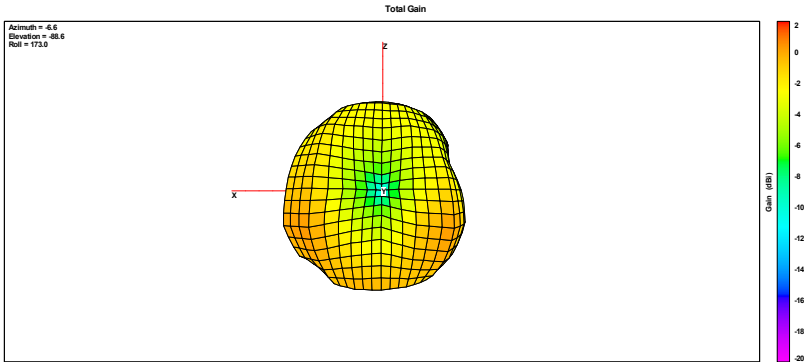


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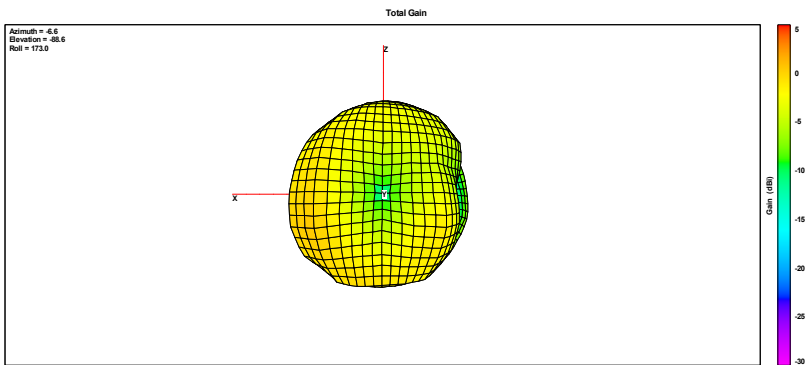


4.3 Radiation Pattern 3D View

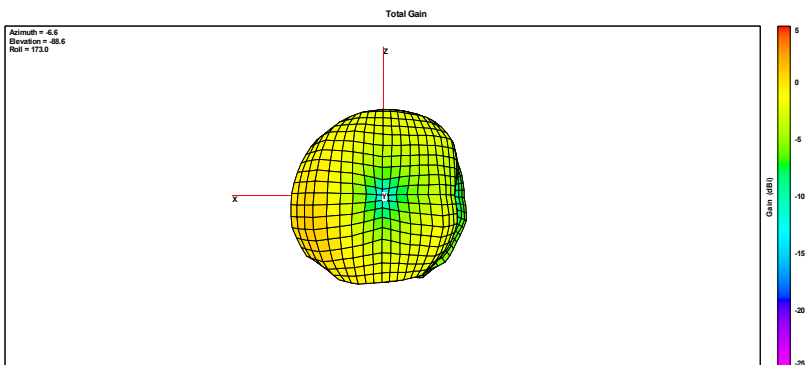
2400MHz



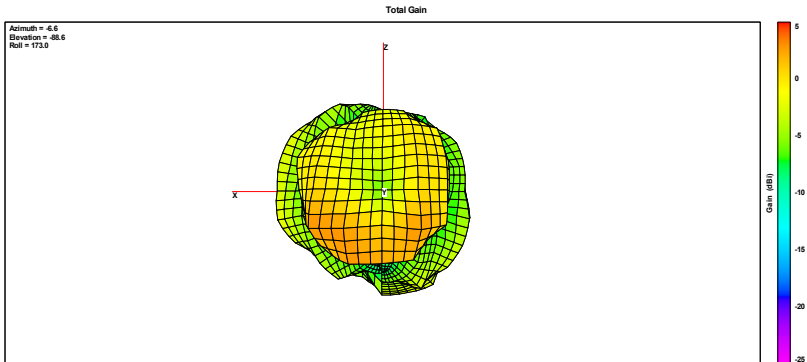
2450MHz



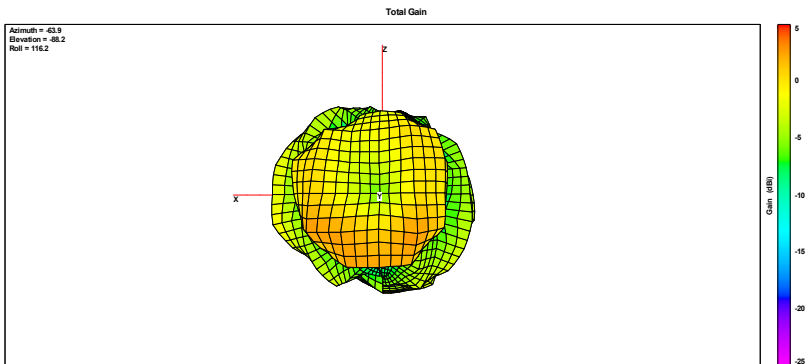
2500MHz



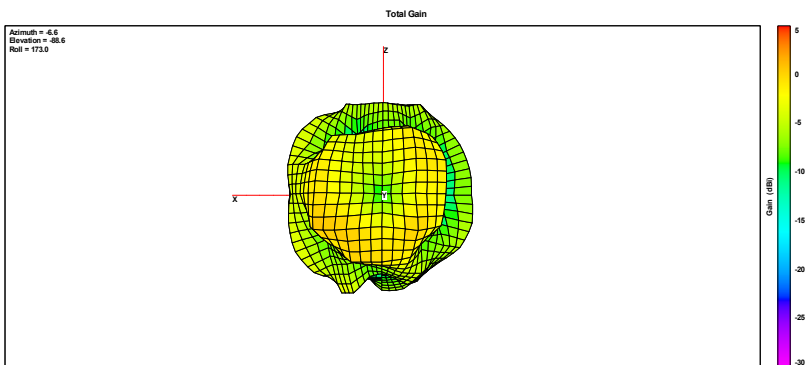
5100MHz



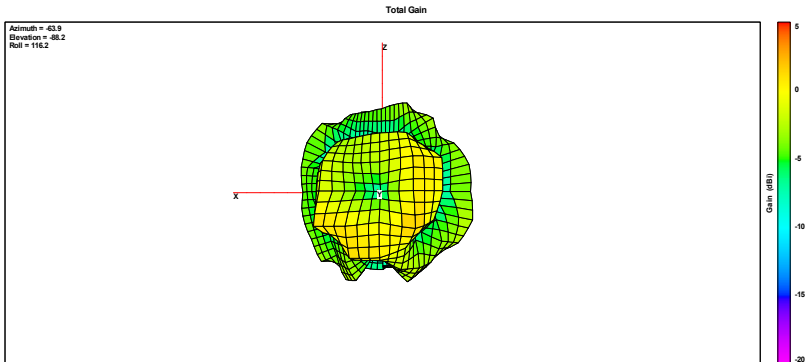
5150MHz



5500MHz



5850MHz



5900MHz

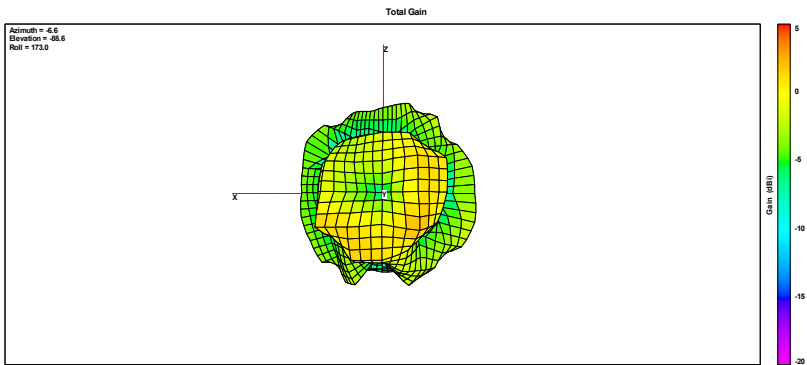
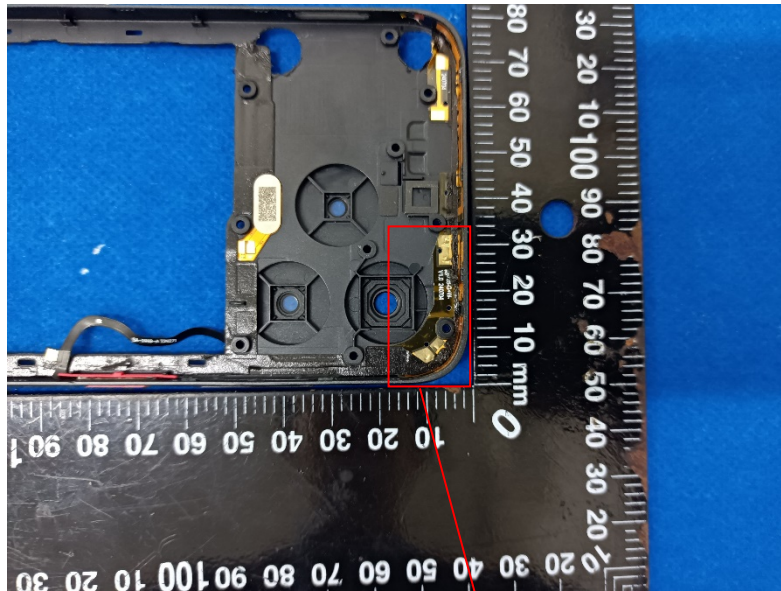


EXHIBIT 1 - EUT PHOTOGRAPHS

EUT View 1



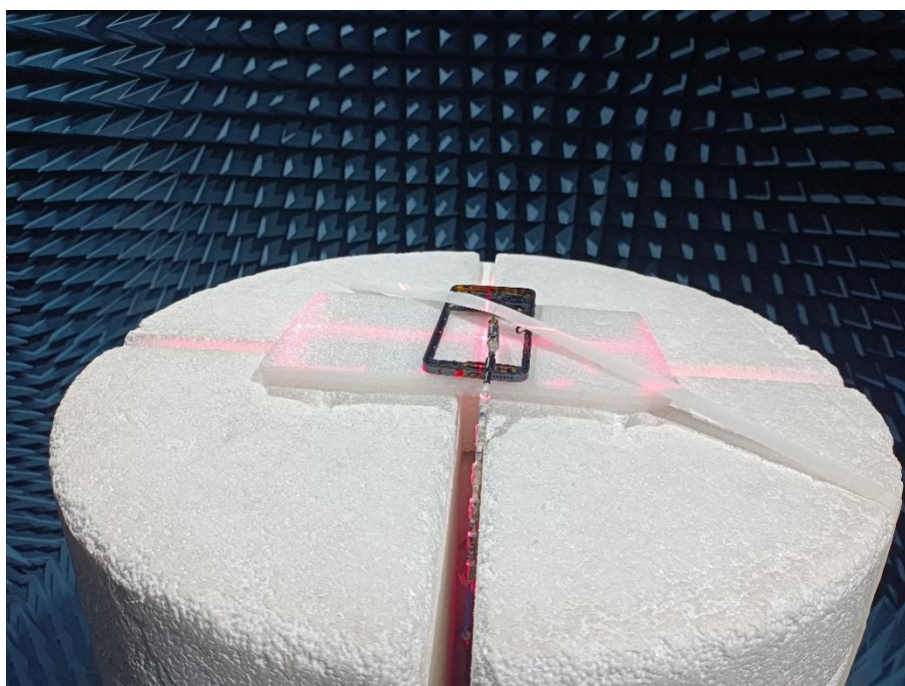
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EXHIBIT 2 - TEST SETUP PHOTOGRAPHS

OTA Test View 1:



OTA Test View 2:



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