

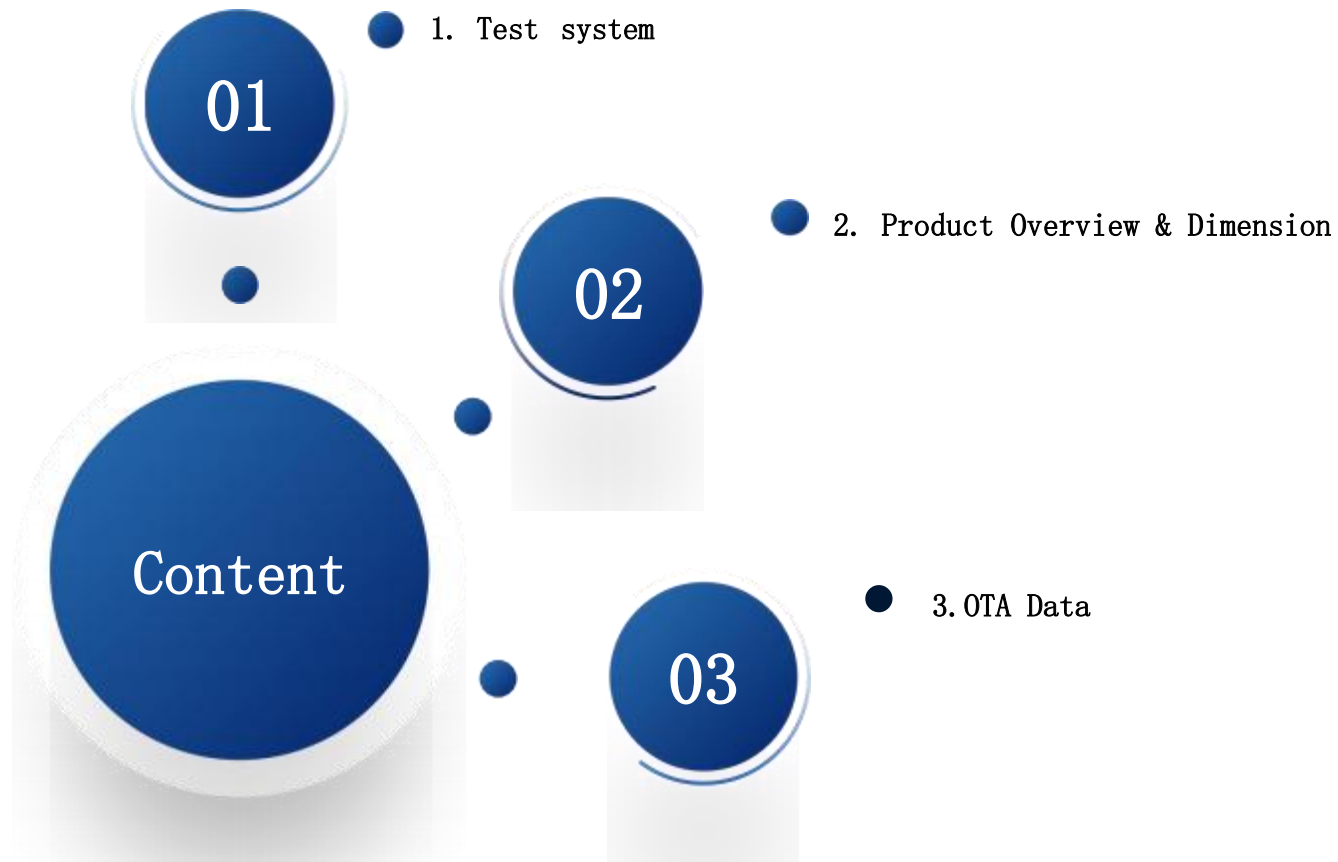


Shenzhen Heyixun Technology Co., Ltd.

Customer	Jialide
Project	099
Antenna Revision	A1
Prepared by	15993920520
Checked by	17279710721
Date	2024. 10. 21

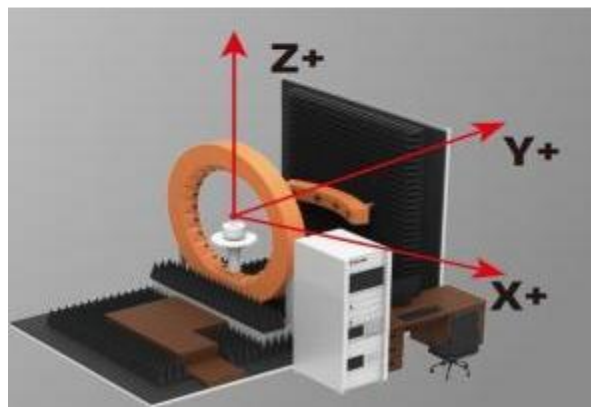
Purpose

This report is to measure the performance of antenna for **Happylemon HL3** The antenna operating frequency at 2400-2500MHz All test data are showed as below.



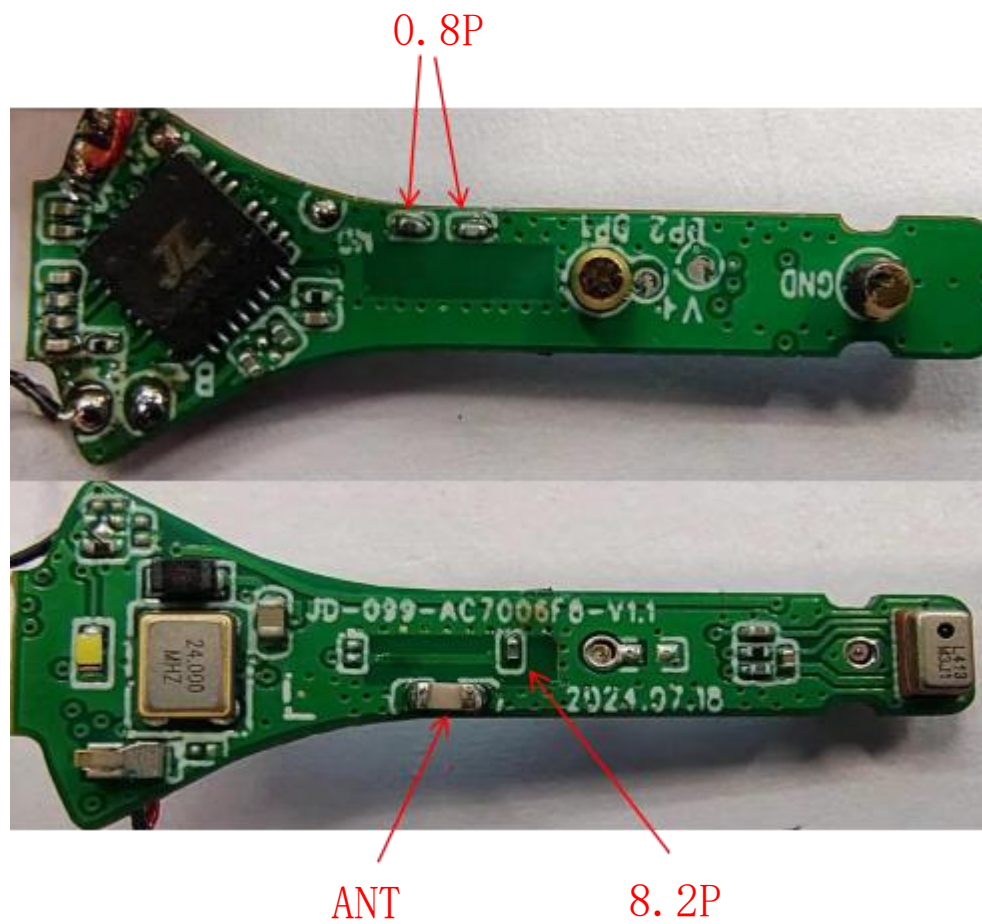
1.TestSystem

Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5071B
OTA Test	TRP&TIS	Agilent 8960 & CMW500 STIMO
Gain & Efficiency	Gain & Efficiency	SATIMO Agilent 5071C



2.Product Overview & Dimension





2. Test Result VSWR&Log Mag&Smith(Ω)



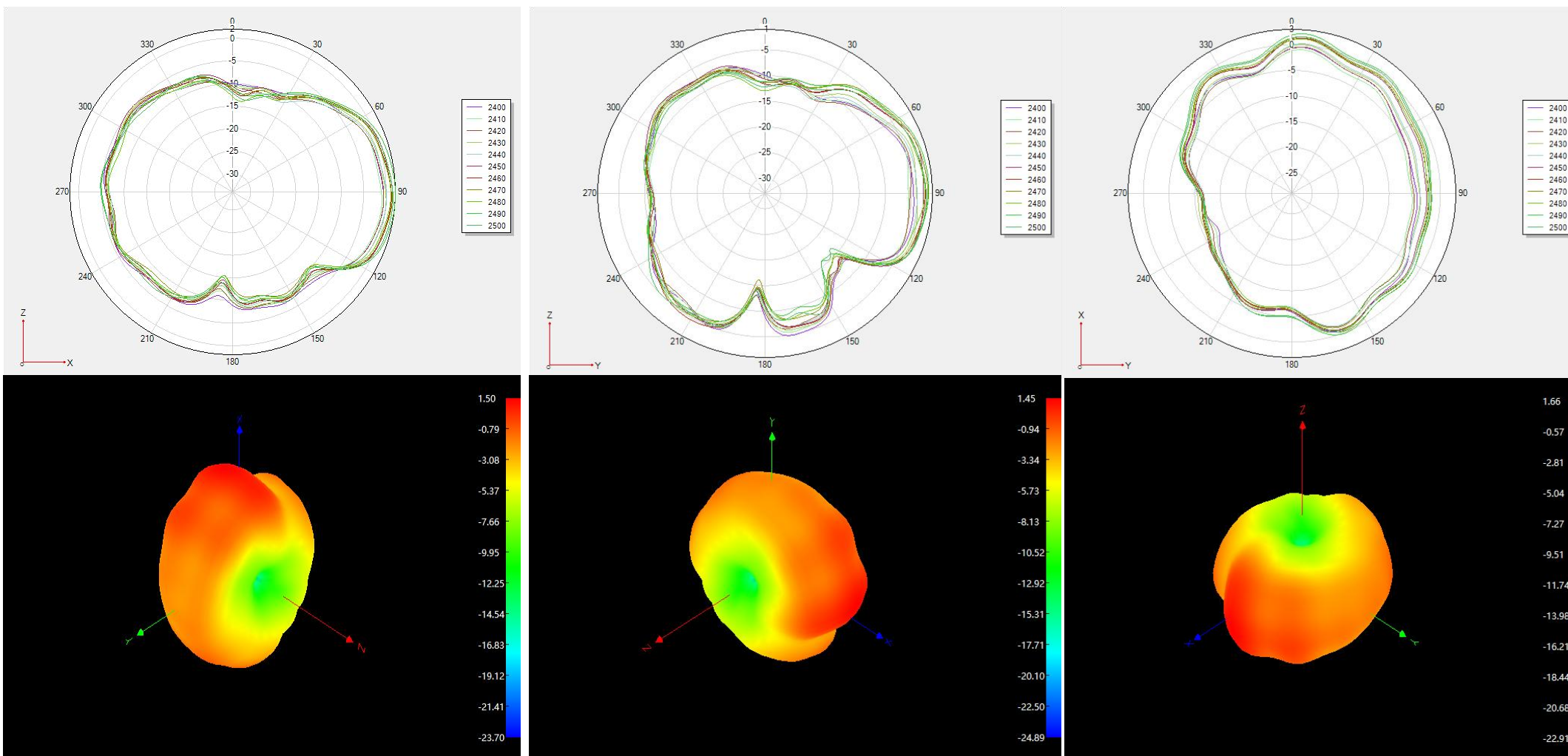
Frequency (MHz)	2400	2450	2480	2500
Log Mag	-16.7	-13.6	-12.1	-11.2
Smith(Ω)	56.4	58.6	57.9	57.1
VSWR	1.3	1.5	1.7	1.7

3. Test Result

Frequency (MHz)	Efficiency (%)	Max GAIN (dBi)
2400	26.82	-0.21
2410	27.54	-0.59
2420	26.61	-0.24
2430	28.8	0.41
2440	28.85	0.42
2450	31.57	1.50
2460	30.14	1.45
2470	30.36	1.66
2480	29.51	1.25
2490	32.67	2.30
2500	31.05	1.87

3. Test Result

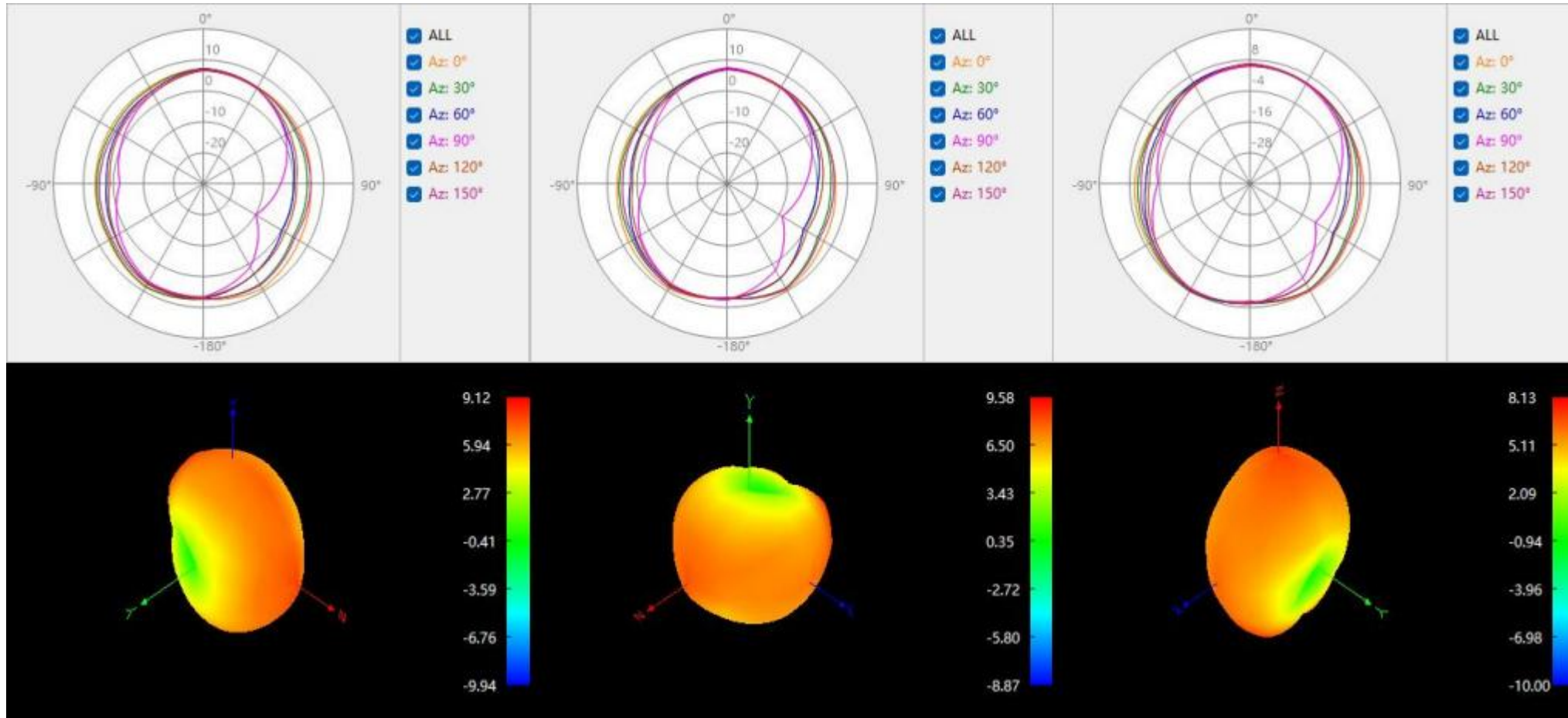
3.1 2D Pattern—BTANT



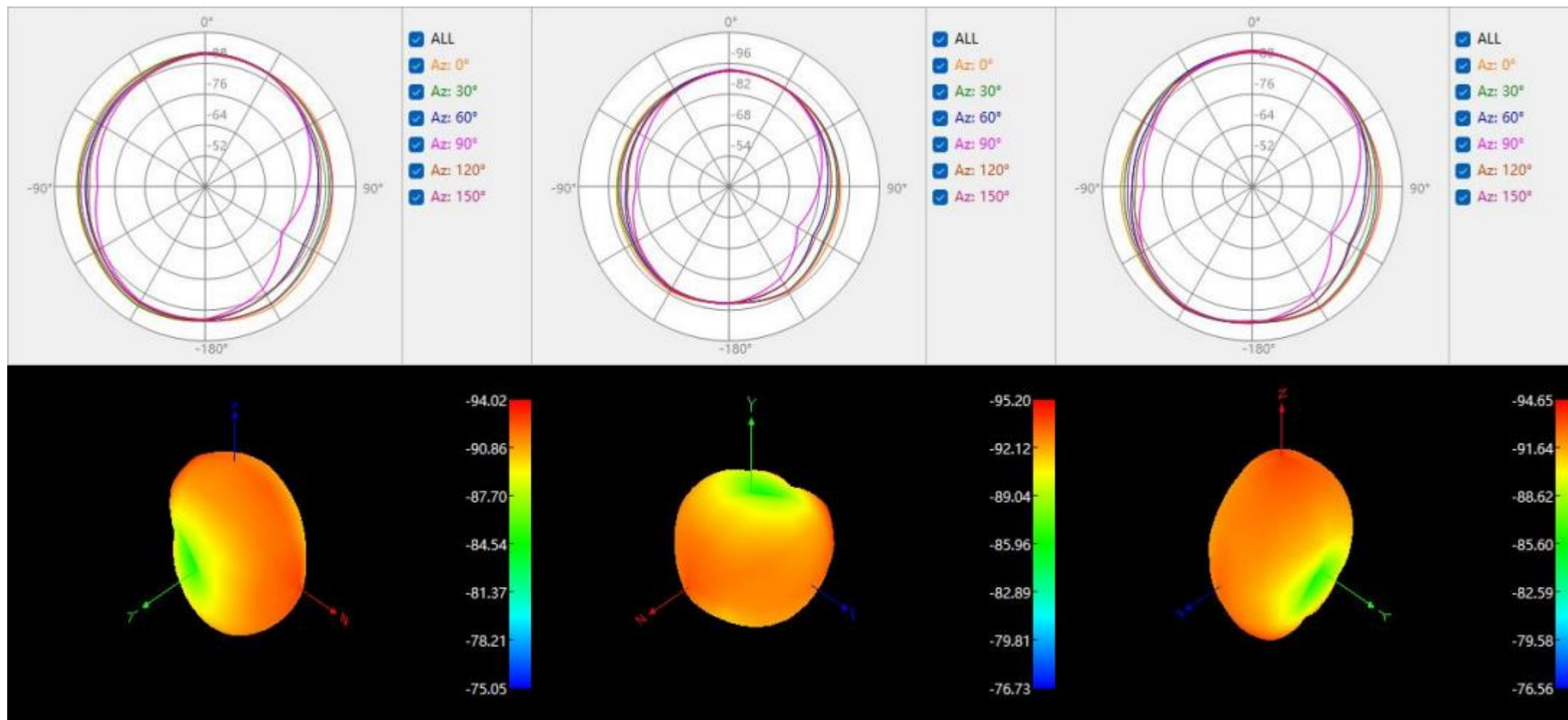
4.OTA Data

Test Equipment:	R&S CMW500			
Test Condition:	3D chamber			
Band		Channel	TRP(dBm)	TIS(dBm)
BT		0	5.34	-90.26
		39	5.78	-91.39
		78	4.81	-91.31

4. Test Result



4. Test Result



Thank you!

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