

APPROVAL SHEET

PRODUCT NAME: CORTIS OFFICIAL LIGHT STICK
MODEL: HYBECOROLSV101
ANTENNA

Review	Consent	Approval
최용하	김용선	서재운
Y.H CHOI	Y.S KIM	J.W SEO
26.05.26	26.05.26	26.05.26

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1. Revision History

Ver.	Contents	Data
R0.2	CORTIS OFFICIAL LIGHT STICK	26.05.26

2. Product Information

2.1 General Features

PART NEMBER	CORTIS OFFICIAL LIGHT STICK Antenna
ANTENNA TYPE	PCB PATTERN ANTENNA
APPLICATIONS	Bluetooth

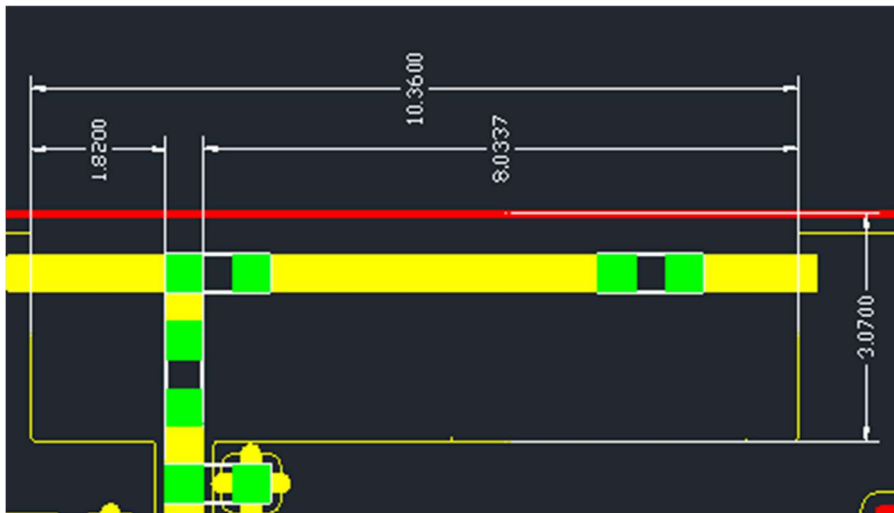
2.2 Electrical Specifications

Frequency Range (Tx)	2400MHz~2480MHz
Frequency Range (Rx)	2400MHz~2480MHz
IMPEDANCE	50Ω
POLARIZATION	Linear

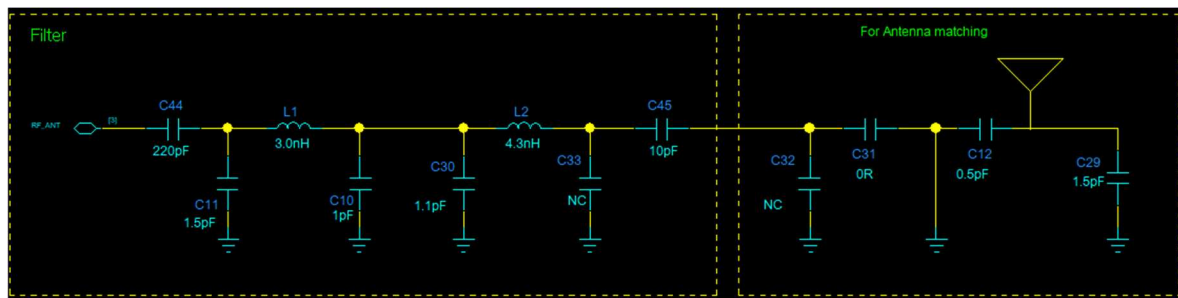
2.3 Company Information

Address	22 Samsung 1-ro 2-gil, Hwaseong-si, Gyeonggi-do
Email	wearableas@partron.co.kr

3. Pattern Specifications

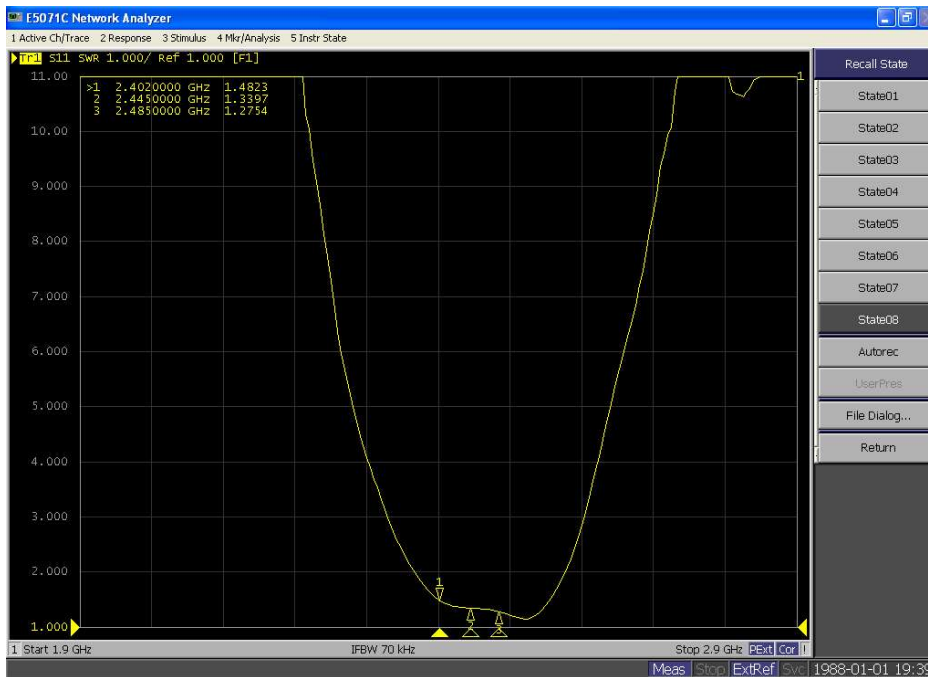


4. Matching Network

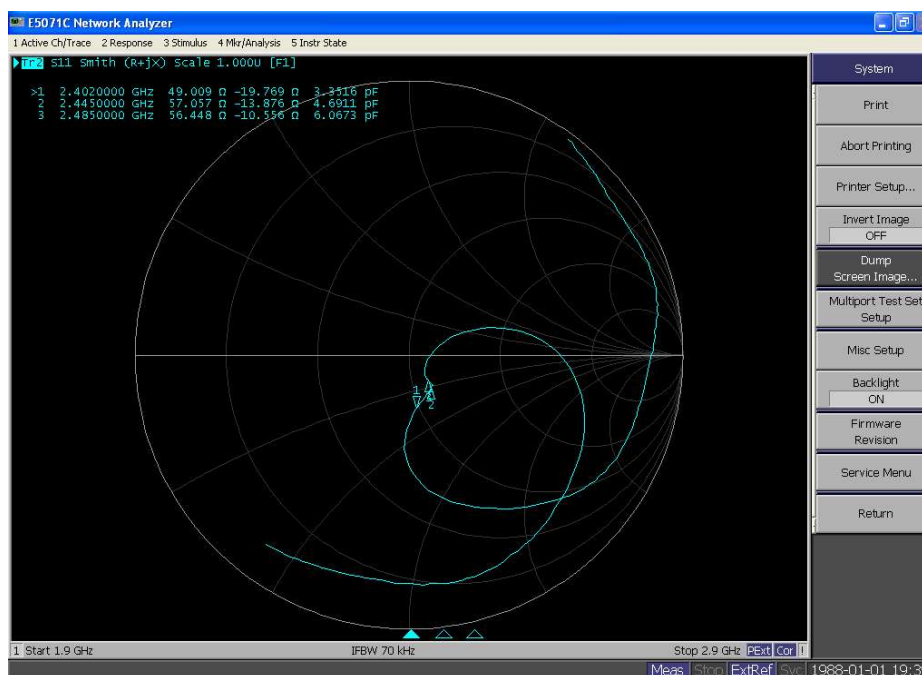


5. Electrical Characteristics

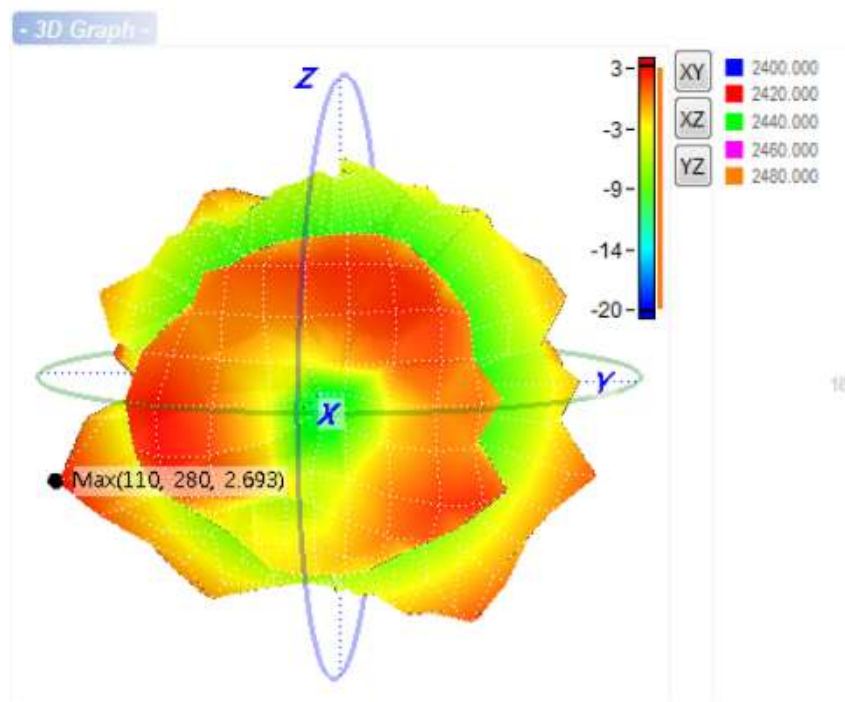
5.1 VSWR



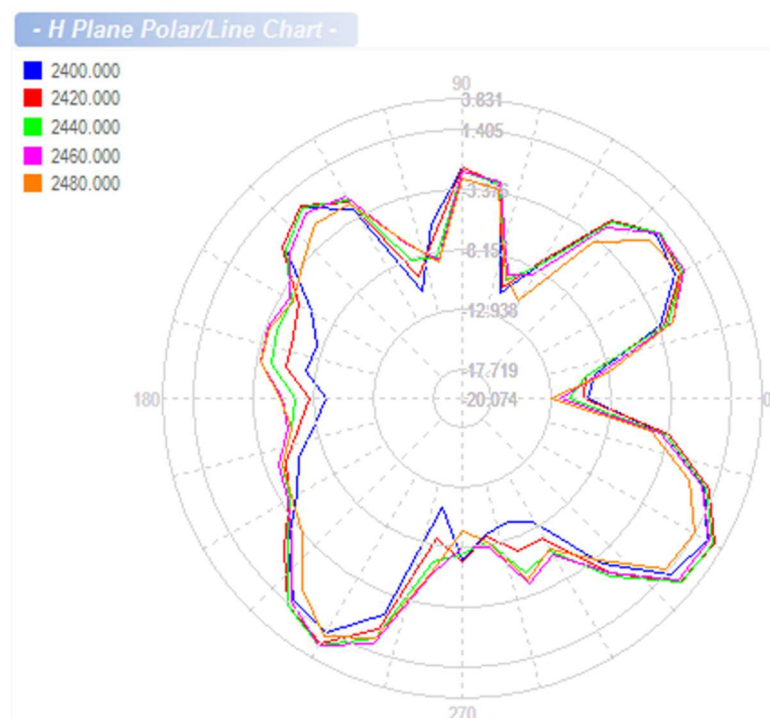
5.2 SMITH CHART



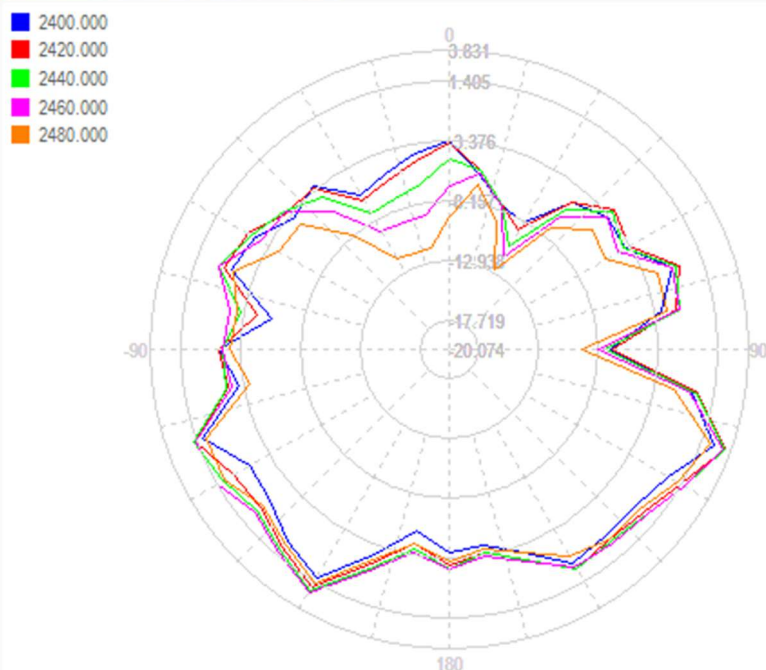
5.3 3D-PLOTS



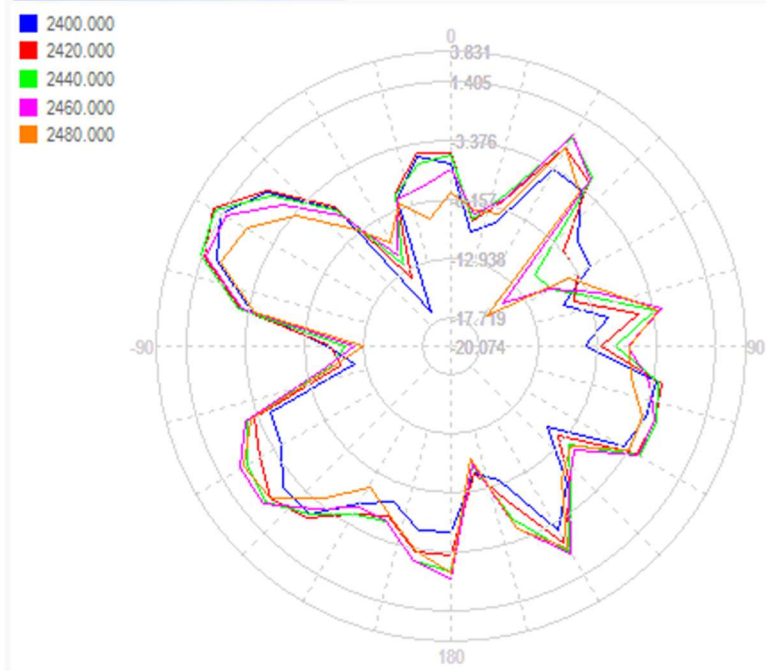
5.4 2D-Gain



- E1 Plane Polar/Line Chart -



- E2 Plane Polar/Line Chart -

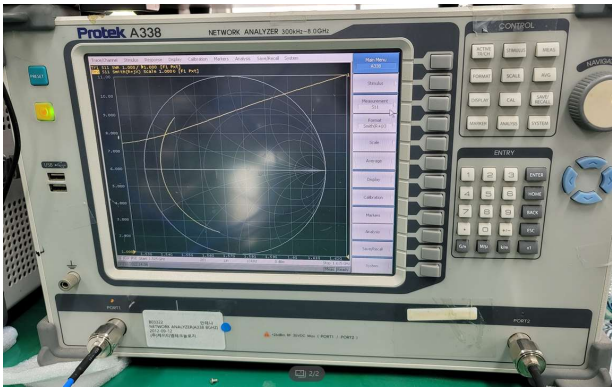


6. Passive Measurement

Summary		Rowdata		H Plane		E1 Plane		E2 Plane	
Frequency	Max Gain			Min Gain			Average Gain	Efficiency	
[MHz]	θ [Deg]	Φ [Deg]	Gain[dBi]	θ [Deg]	Φ [Deg]	Gain[dBi]	Gain[dBi]	[%]	
2,400.000	110.0	280.0	2.693	20.0	140.0	-20.074	-3.383	45.889	
2,420.000	110.0	280.0	3.627	20.0	140.0	-15.979	-2.616	54.754	
2,440.000	110.0	280.0	3.831	50.0	50.0	-17.141	-2.449	56.894	
2,460.000	110.0	280.0	3.741	50.0	50.0	-16.971	-2.593	55.046	
2,480.000	110.0	280.0	2.906	50.0	190.0	-17.919	-3.454	45.149	

7. Measurement Process

7.1 SWR/Return loss

	Set Condition
Network Analyzer	Protek A338
Cable	RF cable (300 mm)
Test condition	

7.2 Gain

Antenna gain is measured in the anechoic chamber of this company.



7.3 Gain Test block diagram

