

APPROVAL SHEET

MODEL : ENHYPEN BAND
ANTENNA

Review	Consent	Approval
임현묵	임근홍	서재운
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24.07.02	24.07.02	24.07.02

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1. Revision History

[illegible]

2. Product Information

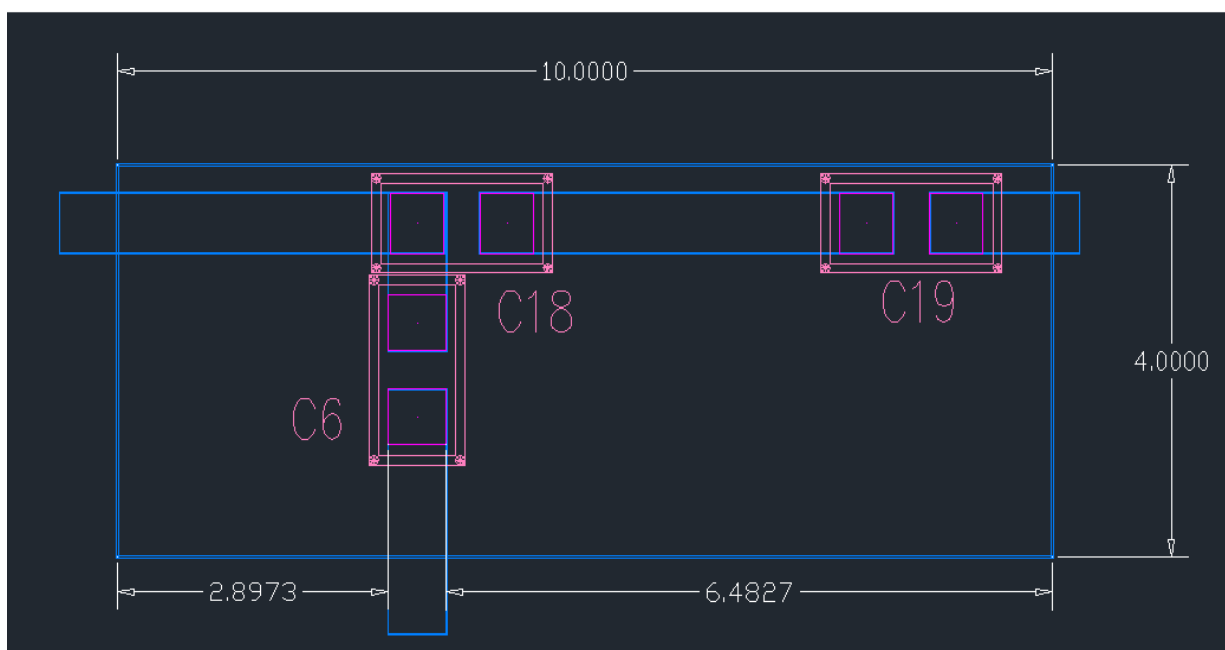
2.1 General Features

PART NEMBER	ENHYPEN BAND ANT
ANTENNA TYPE	PCB PATTERN ANTENNA
APPLICATIONS	Bluetooth

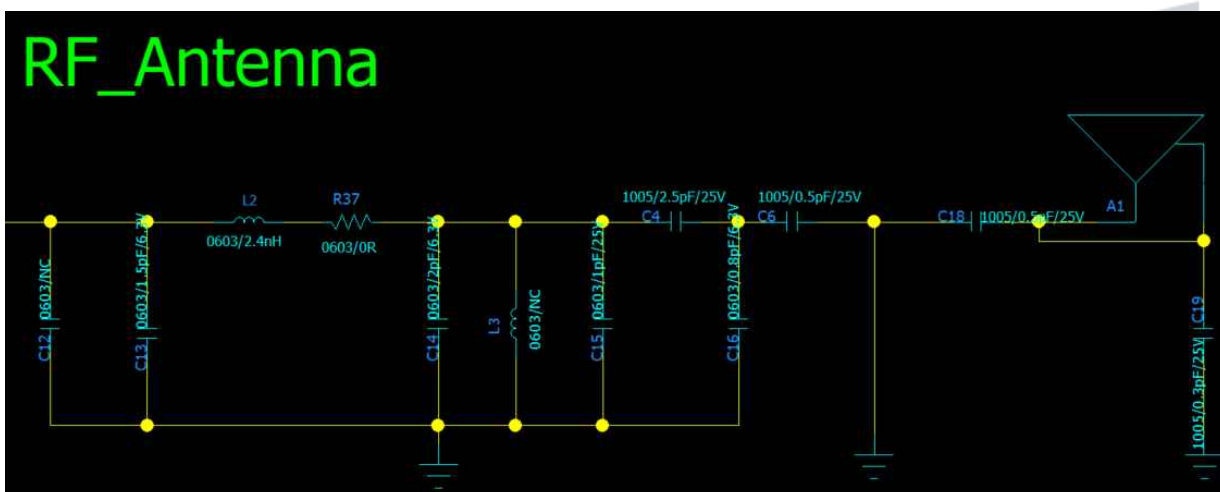
2.2 Electrical Specifications

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

3. Pattern Specifications

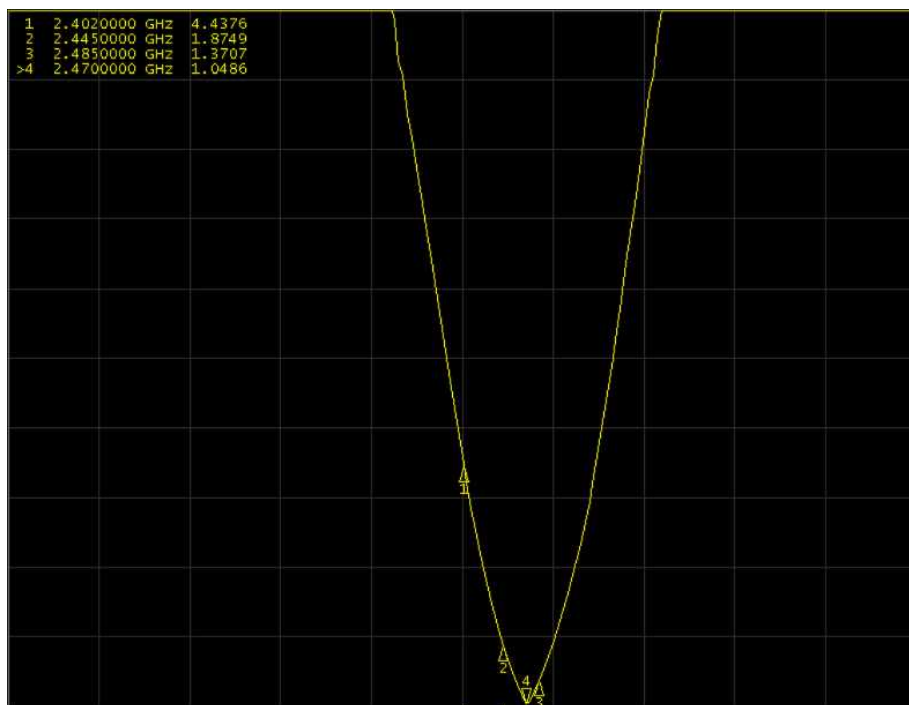


4. Matching Network

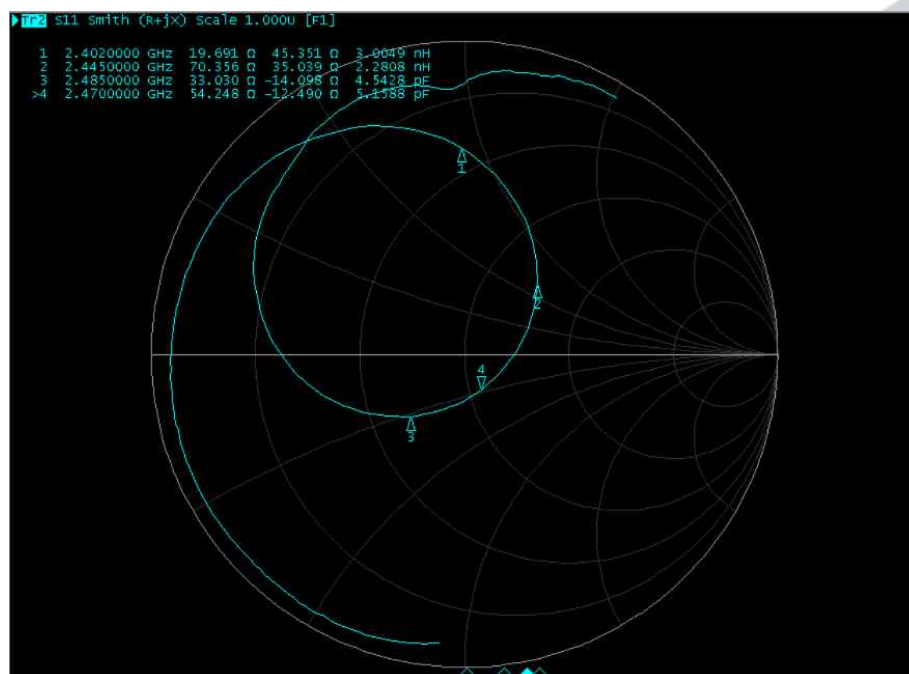


5. Electrical Characteristics

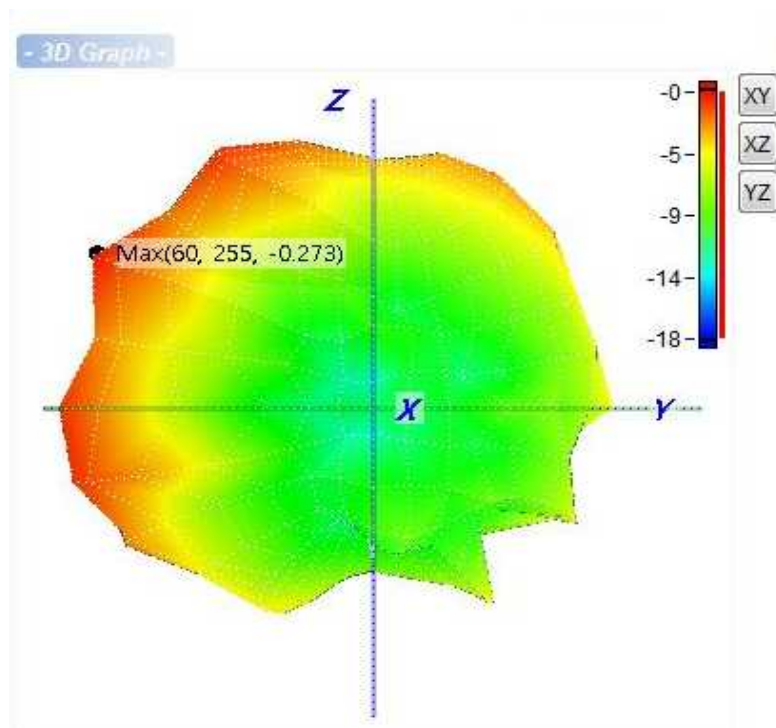
5.1 VSWR



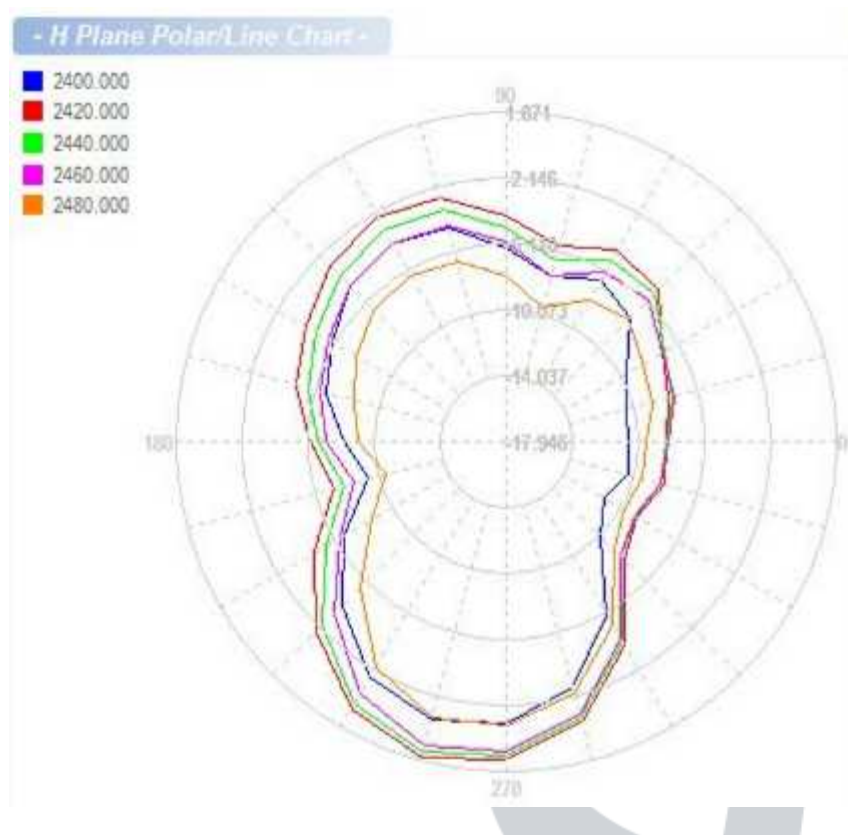
5.2 SMITH CHART

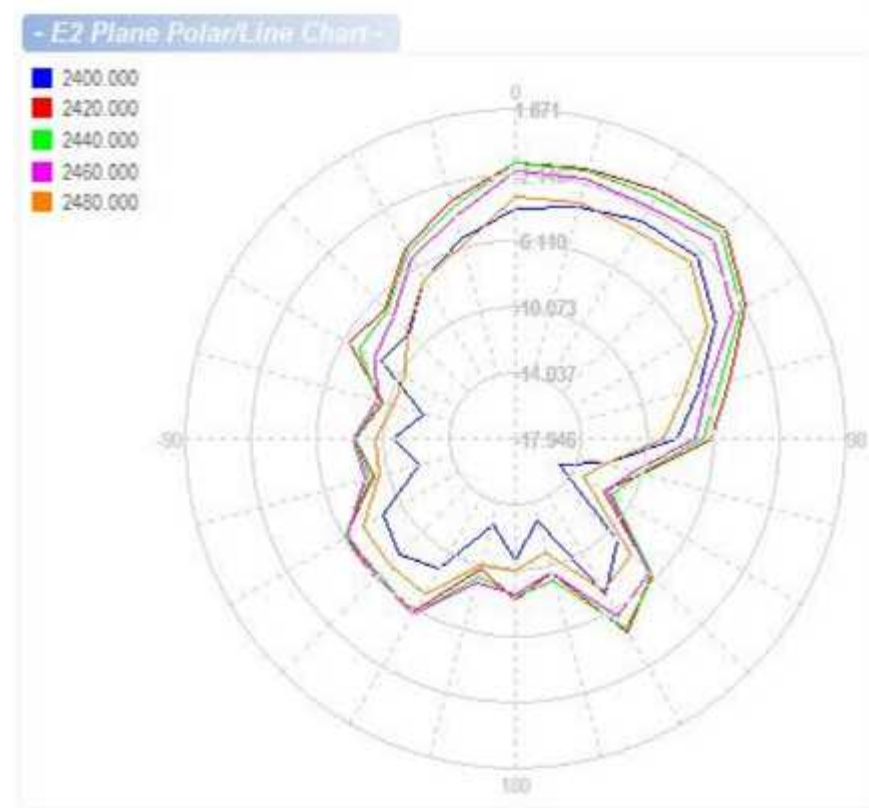
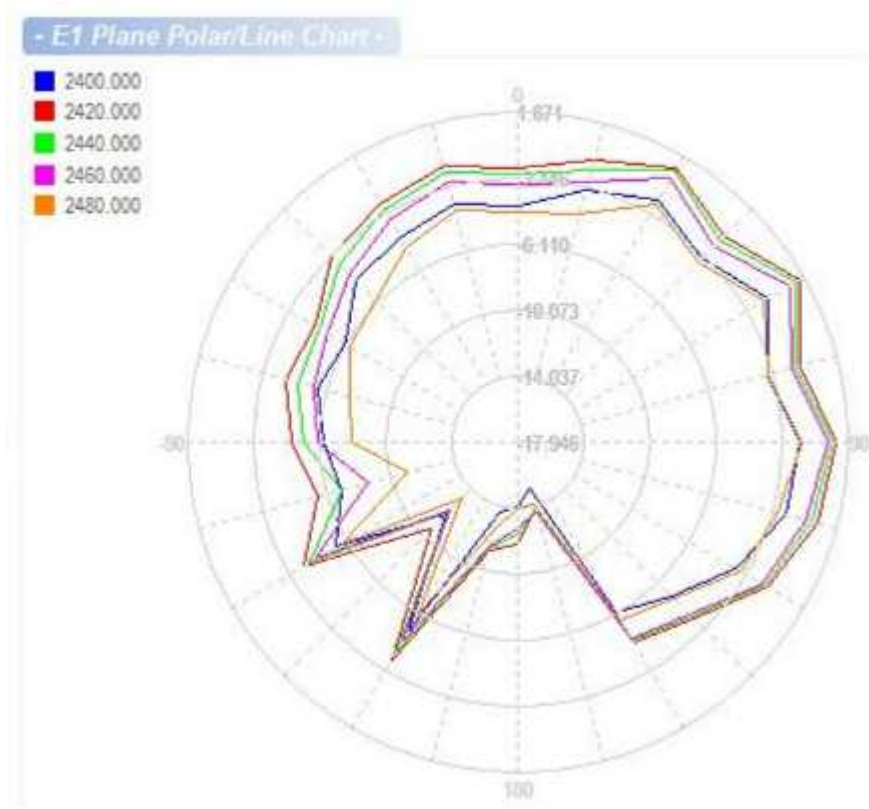


5.3 3D-PLOTS



5.4 2D-Gain





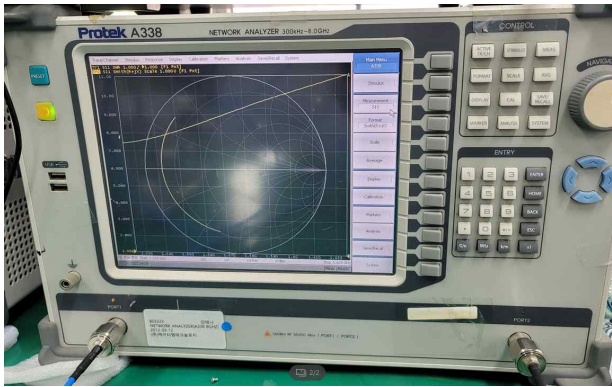
6. Passive Measurement

Vertical Summary

	Frequency	Max Gain			Min Gain			Average Gain	Efficiency
	[MHz]	θ [Deg]	ϕ [Deg]	Gain[dBi]	θ [Deg]	ϕ [Deg]	Gain[dBi]	Gain[dBi]	[%]
1	2,400.000	60.0	270.0	-0.639	60.0	345.0	-36.044	-6.943	20.218
2	2,420.000	60.0	270.0	1.529	60.0	345.0	-37.723	-4.834	32.858
3	2,440.000	60.0	270.0	1.270	60.0	345.0	-40.045	-5.195	30.233
4	2,460.000	60.0	270.0	0.862	180.0	180.0	-37.690	-5.705	26.884
5	2,480.000	60.0	270.0	-0.859	0.0	180.0	-35.655	-7.410	18.154

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

