

RE79- Antenna Approval sheet

- PCB Overview & Matching Value
- VSWR & Smith Chart / 3D Gain data
- 2D Radiation Pattern & Gain
- 3D Radiation pattern

By designed	By checked	By approved
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2025.11.17		2025.11.17

Rev 1.0
Nov 17, 2025

Specification

1. Features and Application :

This product is for BT_BLE band (2402 ~ 2480 MHz)

Measurement Process

SWR / Return Loss

Use Network Analyzer when measuring SWR/Return loss and selecting standard SPL.

E5071B Agilent Network Analyzer

Additional Features:

300 kHz to 8.5 GHz

125 dB dynamic range at test port (typical)

9.6 us/point sweep speed

0.001 dB RMS trace noise

Integrated 2-, 3- and 4-ports with balanced measurements

Fixture embedding/de-embedding and port characteristic impedance conversion

Frequency-offset mode for frequency translated devices.

Built-in Visual Basic for Applications (VBA)

Measurement Wizard Assistant (MWA) software

Measurement Process

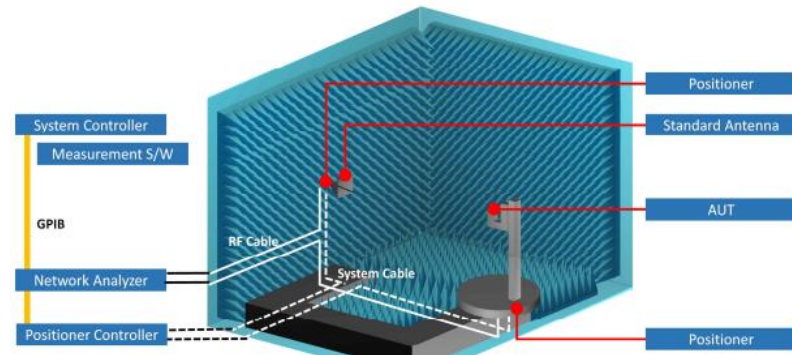
Gain

Antenna gain is measured in the Anechoic Chamber

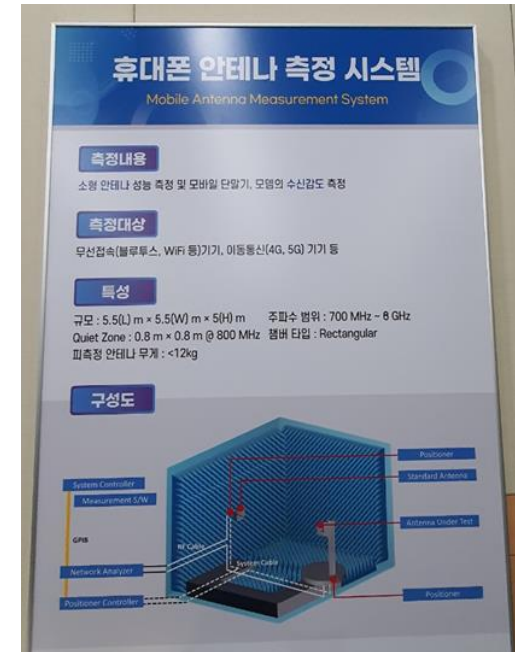


o Size: 5.5(L) m × 5.5(W) m × 5.0(H) m

o Frequency range: 700 MHz to 8.0 GHz (Far Field)



Network Analyzer : R&C ZVA24 (10MHz ~ 24GHz)	GSM, CDMA, WCDMA : Agilent 5515C
4G, LTE Cat.M, NB-IoT : Anritsu MT8821C	
5G (Sub6G, mmWave) : Anritsu MT8000A	WLAN (802.11 a,b,g,n,ac) : Anritsu MT8862A



Electrical Characteristics

This specification covers the dielectric pattern antenna **RE79** used in Bluetooth

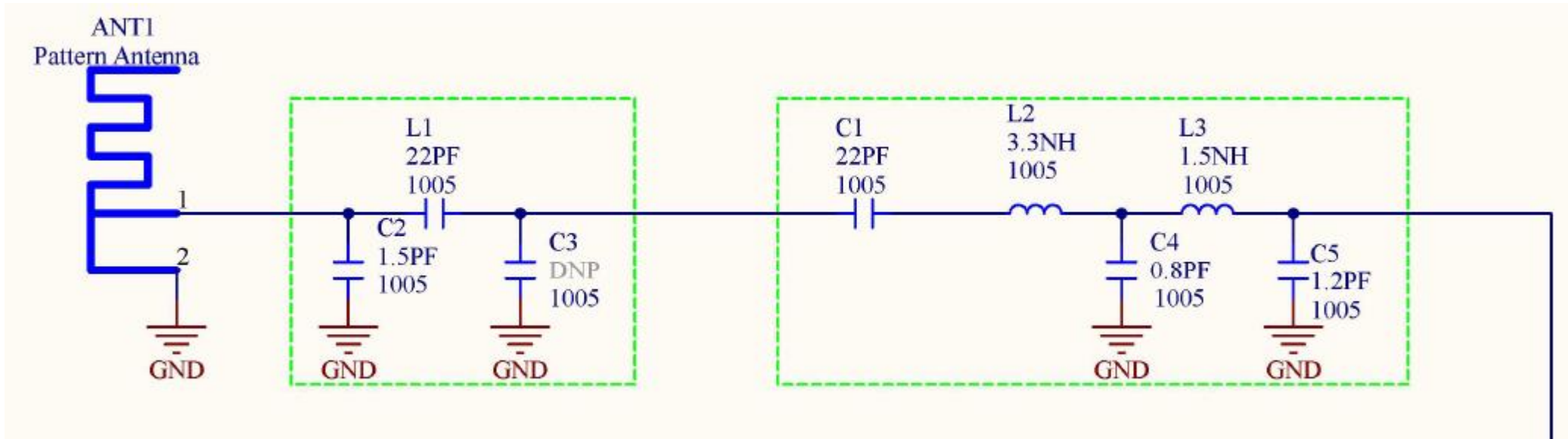
Manufacturer : Remote Solution

Name : RS ANT1

Peak[dBi] : +3.85 dBi

ITEM		SPECIFICATION				
Frequency Range		2402 ~ 2480 MHz				
VSWR		2.5 : 1 Max				
Polarization		Linear				
Frequency [MHz]		2400	2440	2450	2470	2480
Gain [dBi]	Peak	3.85	3.55	3.49	3.44	3.32
	Average	-1.11	-1.08	-1.02	-1.07	-1.12
Efficiency [%]		77.46	77.99	79.04	78.22	77.22

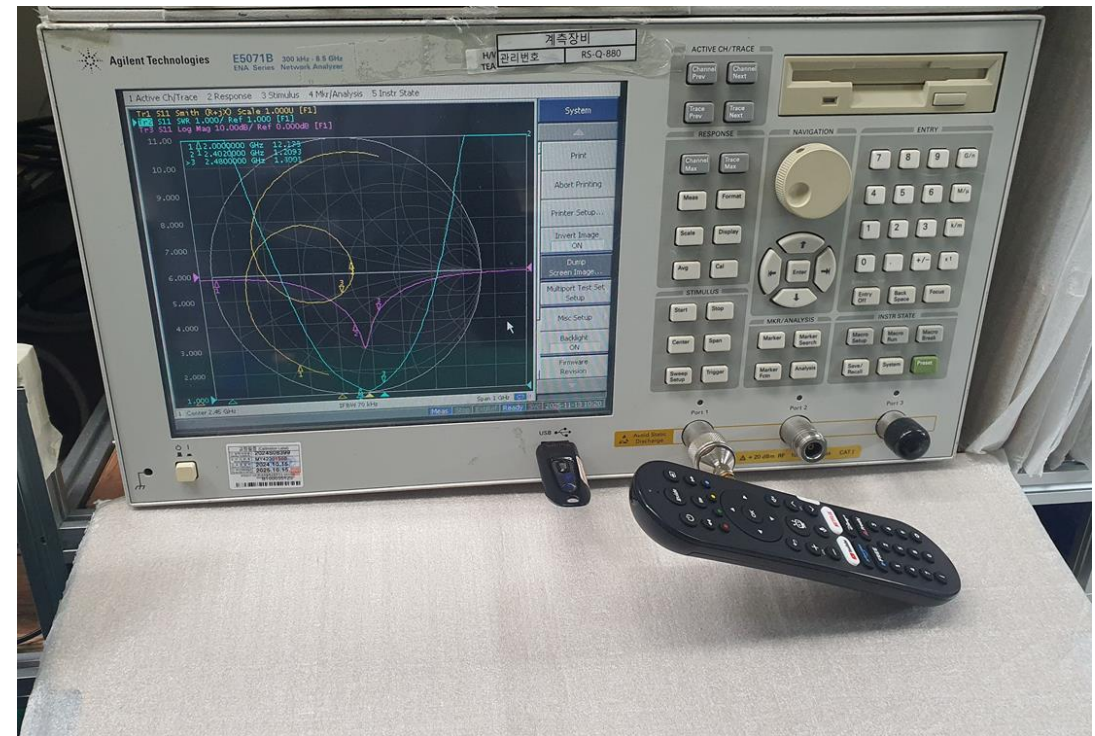
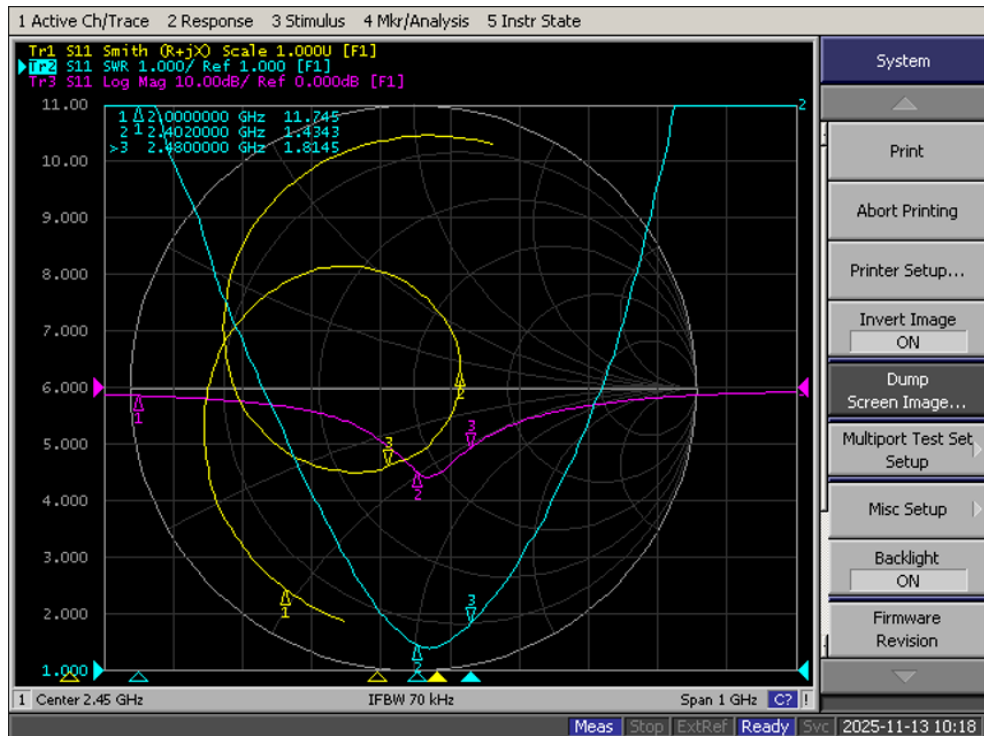
PCB Overview & Matching Value



Manufacturer : Remote Solution

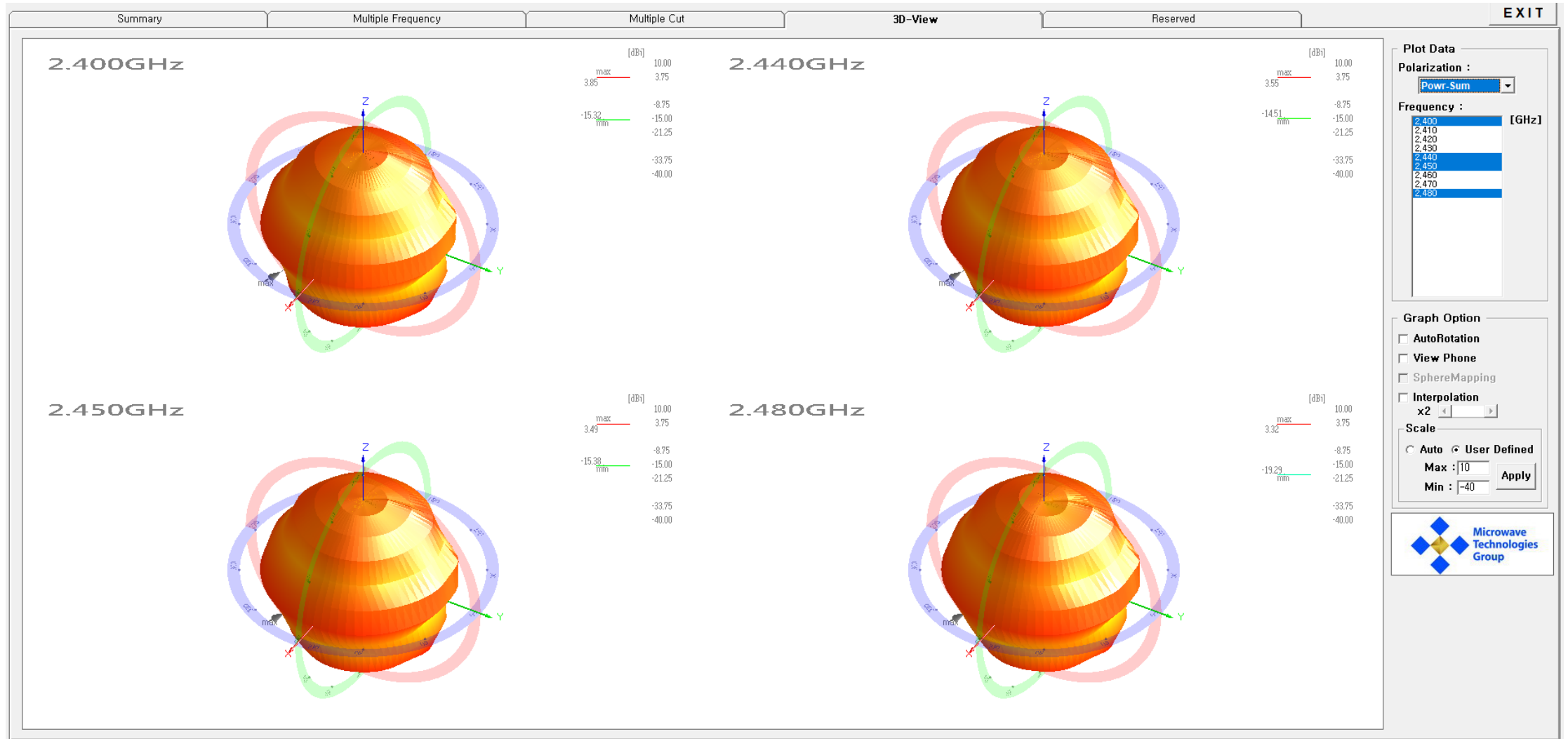
Name : RS ANT1

VSWR & Smith Chart / 3D Gain data



[RS ANT1]

3D Radiation pattern (RS ANT1)





Thank you