

BLE Antenna Information
T1AEA0001 (DK ECU)

					DSGD.			
					Oct.24.'25 H.Yatsu			
					CHKD.	TITLE	Antenna Information	
					Oct.24.'25 M.Nakamura	T1AEA0001		
					APPD.			
					Oct.24.'25 S.Suda			
					ALPSALPINE CO.,LTD.			
SYMB.	DATA OR NO.	APPD.	CHKD.	DSGD.				

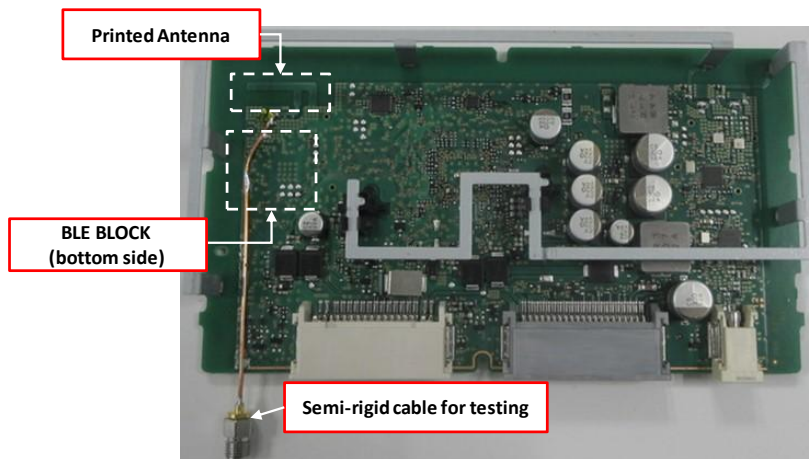
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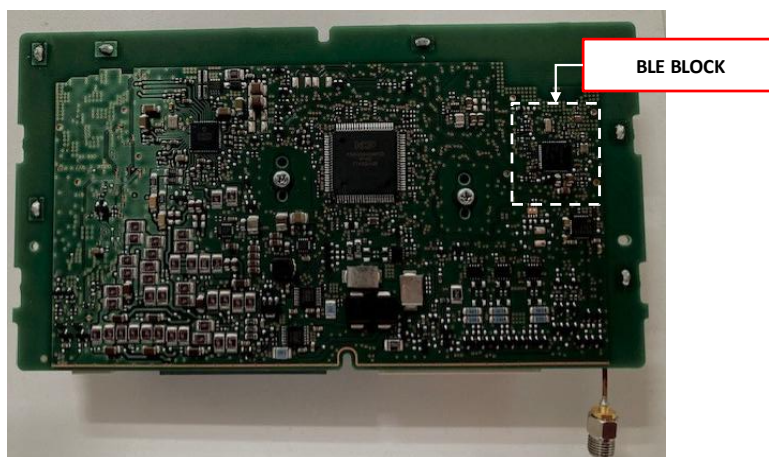
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1. Antenna Information of Internal Antenna

Antenna	Manufacture	Antenna Type	VSWR	Peak Gain
Printed Antenna	ALPSALPINE	Inverted-F Antenna	2402-2480MHz 3.0 max	3.3 dBi



TOP View without cover



Bottom View without cover

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Antenna Information

Section 1. Antenna Assembly Specification

Antenna Assembly Summary:

Connector Type: None

Location of Measurement:

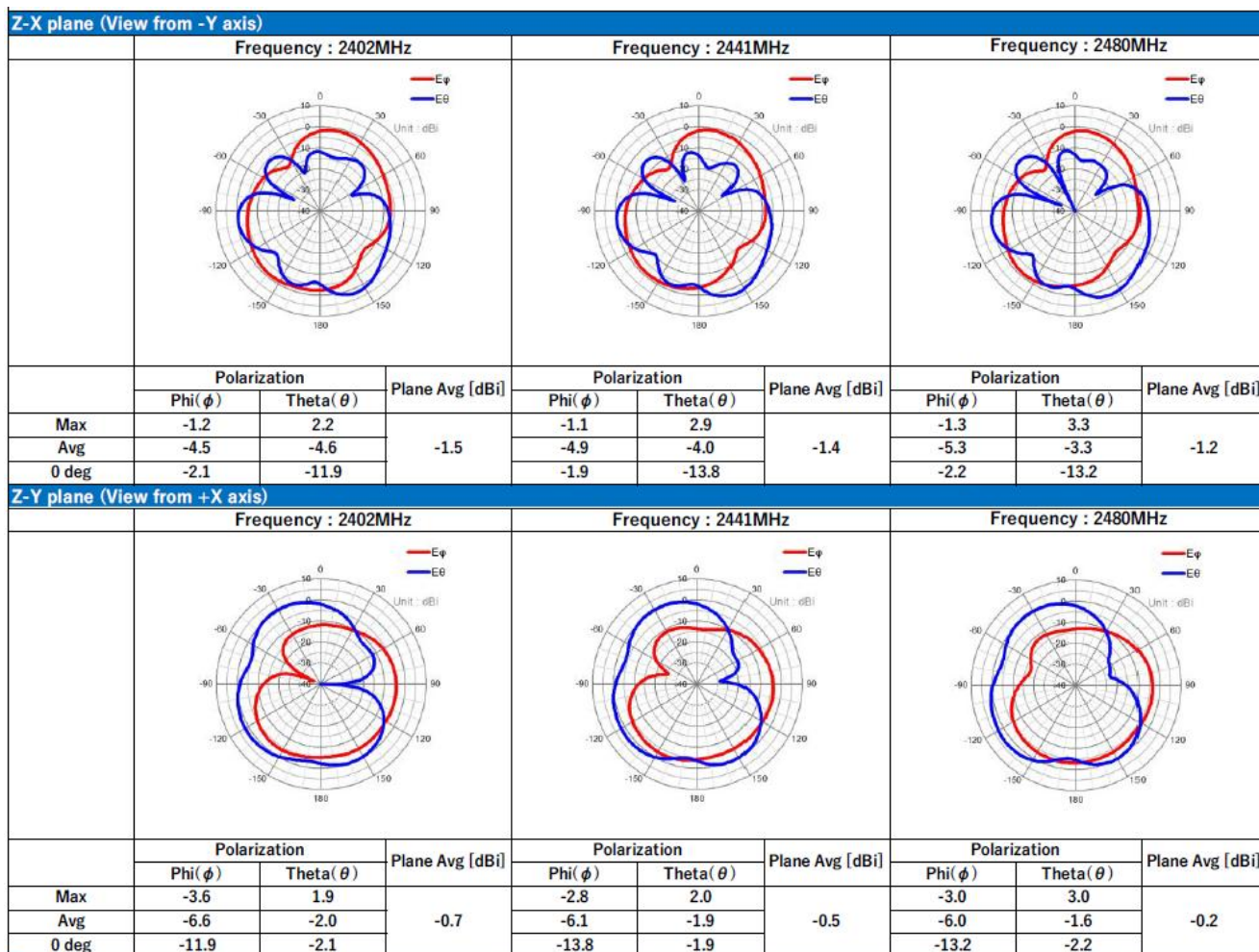
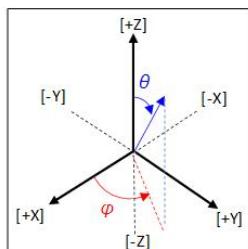
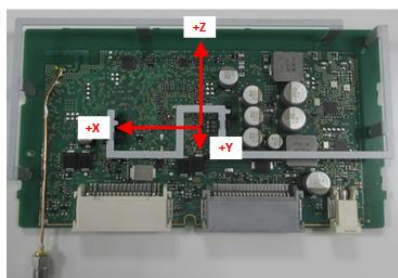
ALPS ALPINE CO., LTD. / 6-3-36, Furukawa Nakazato, Osaki-city,

Miyagi - pref 989-6181 , Japan

	Frequency [GHz]		
	2.402	2.441	2.480
VSWR	1.4	1.3	1.1
Total AVG Gain [dBi]	-1.3		
Peak gain Phi [dBi]	-1.1		
Peak gain Thete [dBi]	3.3		

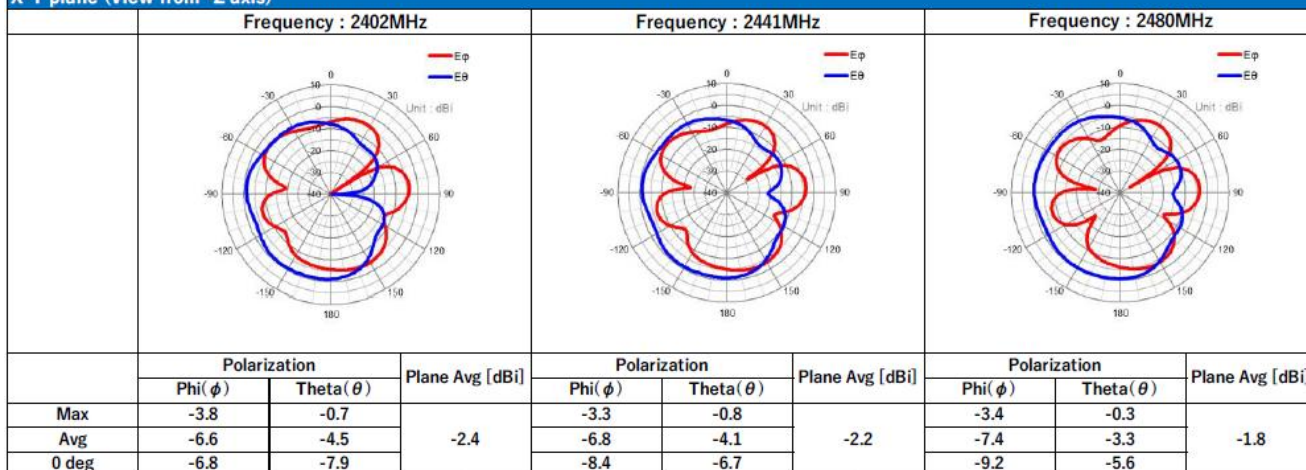
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Section 2. Radiation characteristics of antenna in free space



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X-Y plane (View from -Z axis)



2. Test Information

Test Equipment	Multi-probe system: Satimo SG32 Probe Array Controller: Satimo SAT2001 Signal Generator: Keysight: N5181A / N5183A Calibration date: 18.3.2024~22.3.2024
Test software	Satenv Ver 3.0.3.0 build23 Sat Map Ver 1.3.2.1
Test date	22.10.2024
Test Operator	M.Nakamura

3. Test Method

1) Calibration

- Reference antenna measurement
- Processing measured Reference Antenna Data

2) DUT measurement

- DUT measurement
- Processing measured DUT Data

4. Test Setups

Refer to the figure in the appendix file.

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