

PRODUCT SPECIFICATION

Model	Description
REBL-MZ29T_ANT	IEEE802.15.4

APPROVAL	REMARK	APPENDIX	DESIGNED	CHECKED	APPROVED
			2024.05.14	2024.05.14	2024.05.14
			K.S.LEE	J.B.KIM	I.U.KIM

ANTENNA SPECIFICATION

- 1. Model : REBL-MZ29T_ANT
- 2. Application : 2.4GHz IEEE802.15.4 compliant RF Transceiver
- 3. Electrical specification and performance

ELECTRICAL DATA	SPECIFICATIONS		REMARK
FREQUENCY RANGE	2405 ~ 2480 MHz		
IMPEDANCE	50 Ω NOMINAL		
V. S. W. R	2405 ~ 2480 MHz	Less than 2.0 : 1	#1. Attached
PEAK GAIN(Min)	2405 ~ 2480 MHz	-0.38 dBi	#2. Attached

- 4. Hardware specification and mechanical

MECHANICAL	SPECIFICATIONS	REMARK
Dimension	17.7 mm x 3.8 mm	#3. Attached

- 5. Company information

ATEC IoT Co.,Ltd. 289, Pangyo-ro, Bundan-gu, Seongnam-si, Gyeonggi, Republic of Korea TEL : +82-31-696-9841 PAX : +82-31-696-9899
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6. OPERATING TEMPERATURE

Temperature : - 20°C / + 60°C

Demands : Set Antenna for 48 hours each temperature.

No visual and mechanical changes.

Unchanged mechanically during the test.

The antenna shall satisfy the electrical data

7. HUMIDITY Condition

Condition : 80% / + 30°C ~ +50 °C

Measuring method

Antenna is placed in climatic chamber for 48 hours.

Antenna is taken out from the chamber and measured
after another 24 hours in room temperature

Demands : No visual and mechanical changes.

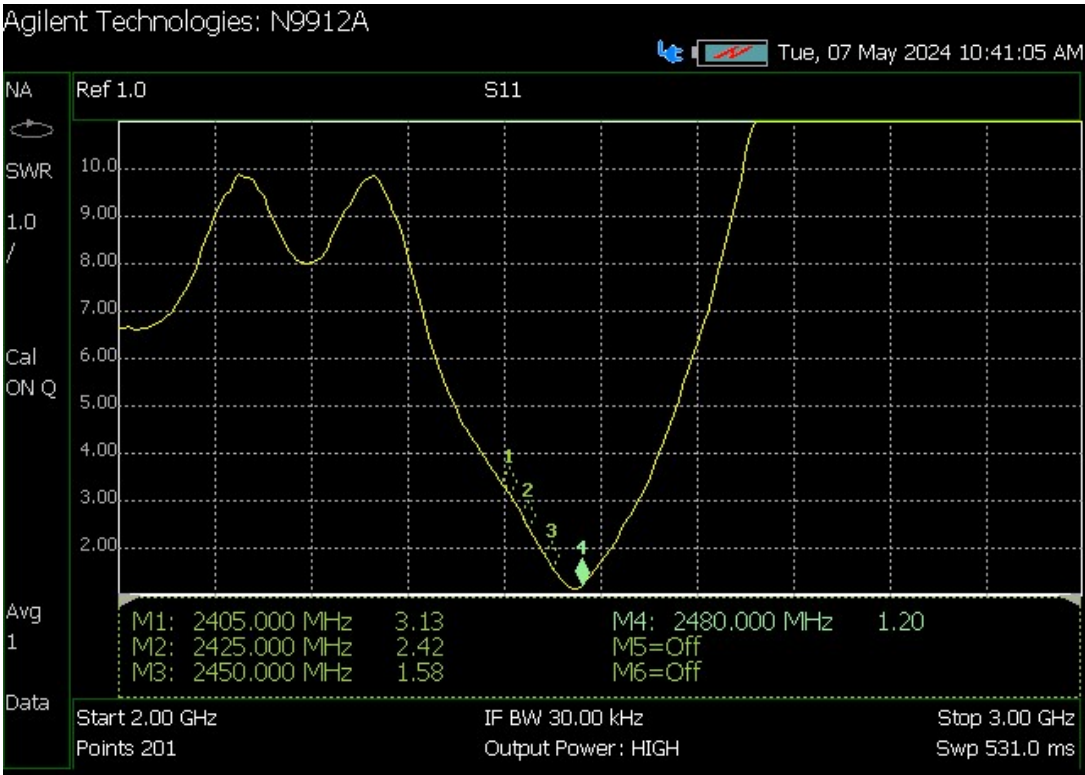
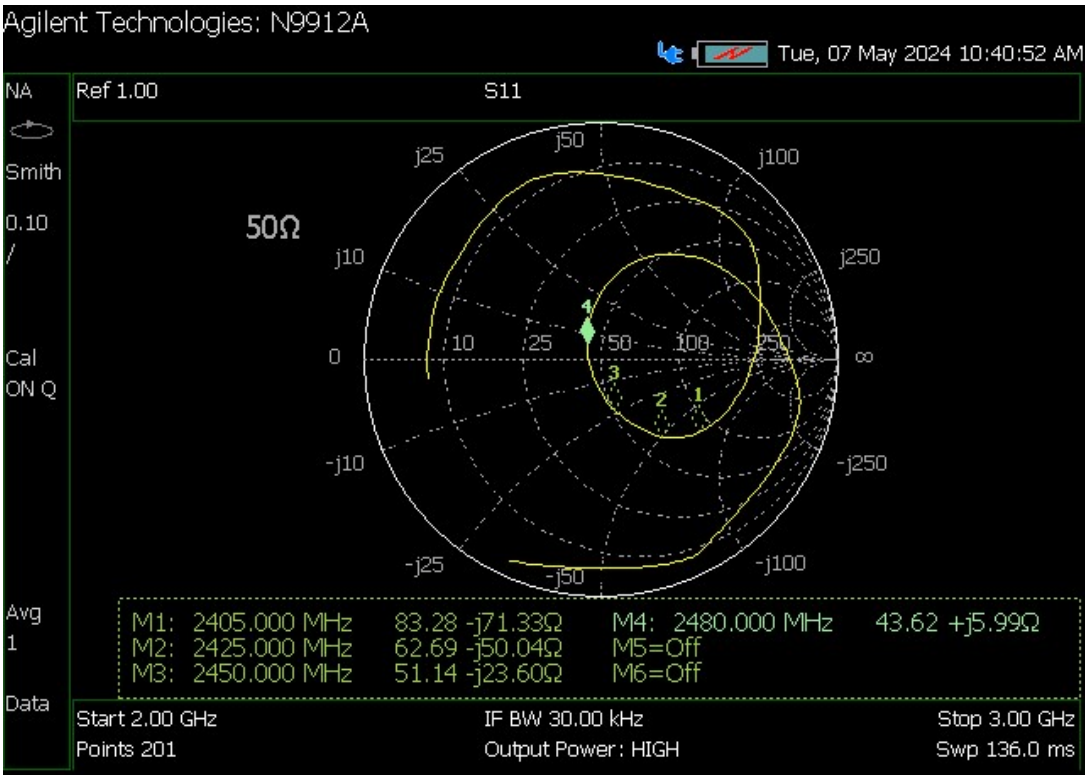
Unchanged mechanically during the test.

The antenna shall satisfy the electrical data.

8. TEST and Q/C

This specification is according to fixed demands and suitable *ATEC IoT* Q/C provision.

#1. Attached: VSWR



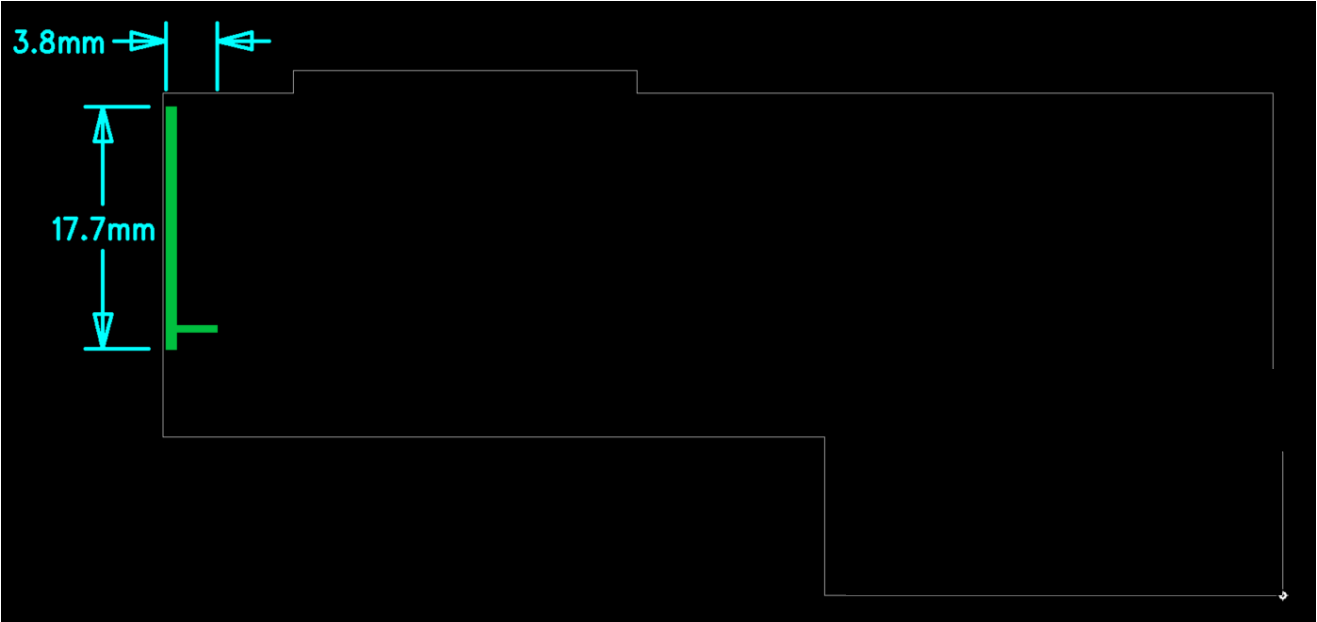
#2. Attached

▪ Radiation Pattern and Gain

TEST METHOD																																																																																																																						
① Network Analyzer ② Signal Interface : Coaxial Cable ③ Test PCB Antenna ④ Dual Polarized Antenna ⑤ Shield Room																																																																																																																						
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#3. Attached: Drawing paper



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REBL-MZ29T_NFC	IEEE802.15.4

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			2024.05.14	2024.05.14	2024.05.14
			K.S.LEE	J.B.KIM	I.U.KIM

ANTENNA SPECIFICATION

- 1. Model : REBL-MZ29T_NFC
- 2. Application : Operating frequency of 13.56 MHz (Receiving Only)
- 3. Hardware specification and mechanical

MECHANICAL	SPECIFICATIONS	REMARK
Dimension	21.3 mm x 9.9mm	#2. Attached

- 5. Company information

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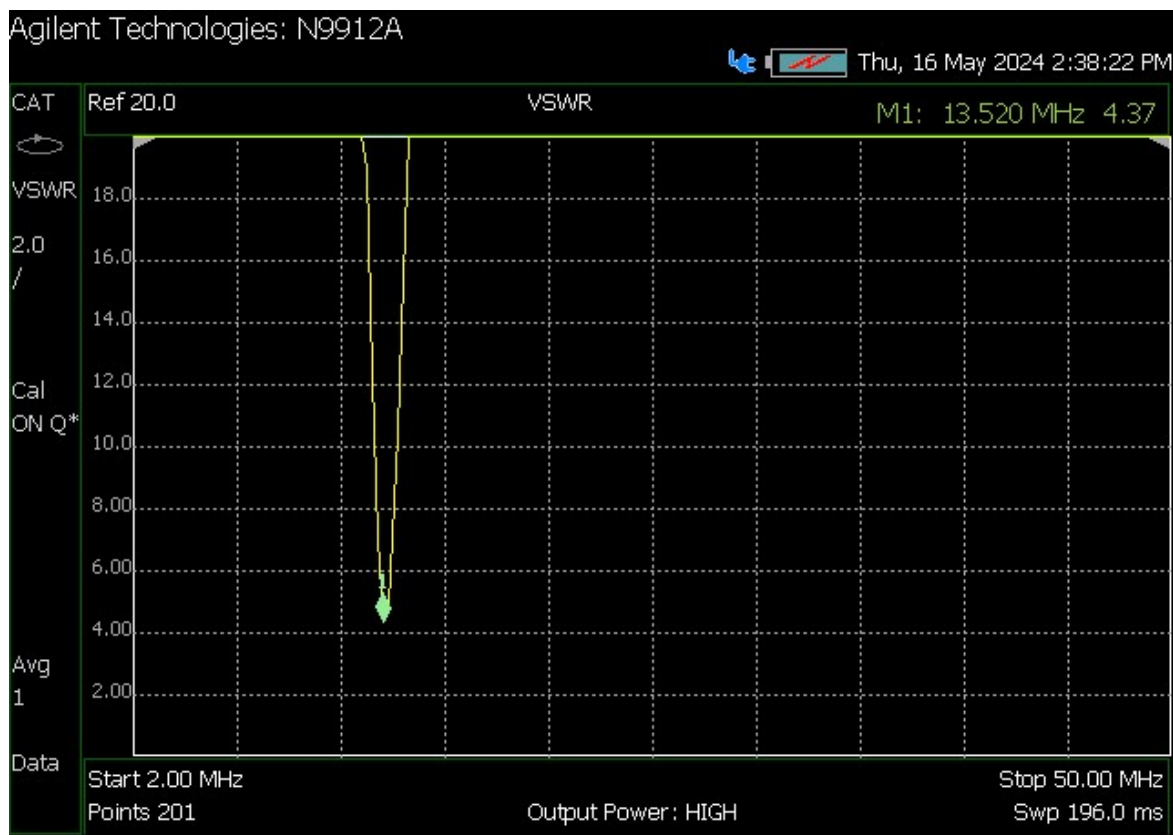
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