



RELIABILITY TEST REPORT

Report No: 20201222003

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Date: December 22, 2020

RAYTAC CORPORATION
5F., NO.3, JIANKANG ROAD, ZHONGHE DISTRICT,
NEW TAIPEI CITY, 23586, TAIWAN

Product Description: nRF52820 Bluetooth Module

Style / Item No.: MDBT50-256R/P256R / No.1, No.2

Manufacturer/ Vendor: Raytac Corporation

Country of Origin: Taiwan

Testing Required: Thermal Shock Test

Testing Method: JASO D001-94, Clause 5.17

Quantity: Total 2 sets

Testing Period: Dec. 15, 2020 to Dec. 18, 2020

Testing Results: -Please See Attached Sheets

**Signed for and on behalf of
Raytac Corporation.**

Stanley Huang
Deputy Manager

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1. Thermal Shock Test:

Test Equipment:

Name	Brands	Model	Serial No.
Testing Chamber	Haich	HC-TOPH-22-CH	QHC20200707-122-3
DC Power Supply	GOODWILL	GPC-1850D	E873364

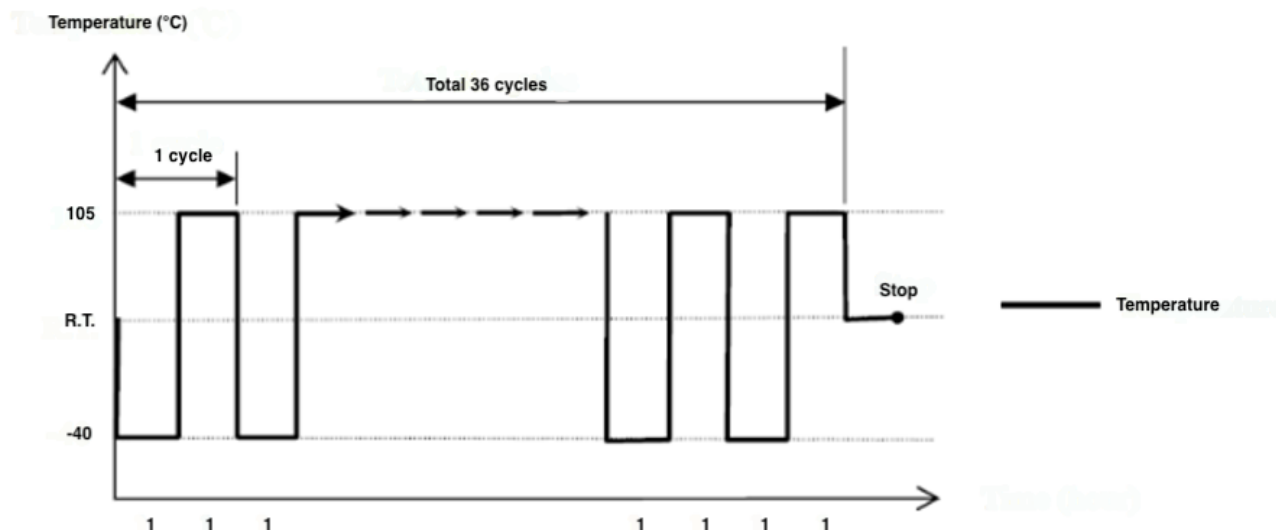
Lab Environmental Conditions:

Ambient Temperature: $(25 \pm 3) ^\circ\text{C}$

Ambient humidity: $(55 \pm 20) \% \text{ RH}$

Test Method/ Specification:

Test method: Refer to JASO D001-94, Clause 5.17



- Sample Condition: Operating
- The temperature transition time shall be within 1 minute.
- Examine the appearance of specimen(s) by visual check and perform functional check during this test.
- Functional check: Connect the specimen(s) with notebook and examine whether the signal transmission could work normally or not.

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Specimen:

Style / Item No.: MDBT50-256R/P256R / No.1, No.2

Quantity: Total 2 sets

Testing time: 36 cycles * 2 hours = 72 hours

Data packet size: 244 bytes

Data rate: 244 bytes * 4 packets/sec = 976 bytes/sec

Number of data sent: Total **252,979,200** bytes

Test Result:

Check Item Style/Items No.	Appearance check (Visual check)	Functional Check
MDBT50-256R / No.1	No visible damage	No data loss
MDBT50-P256R / No.2	No visible damage	No data loss

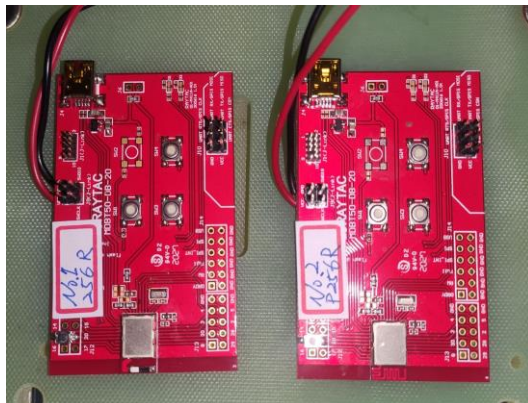
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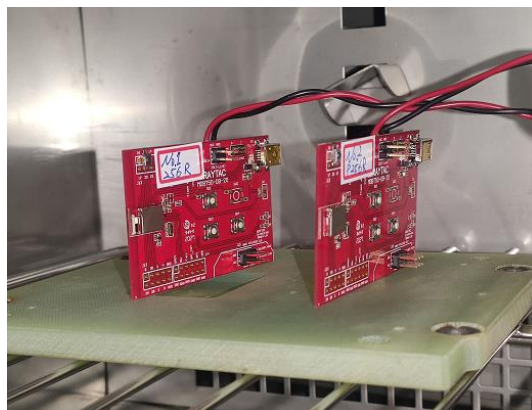
Test Photos:



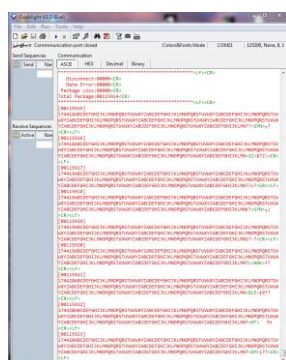
1. Appearance of specimen



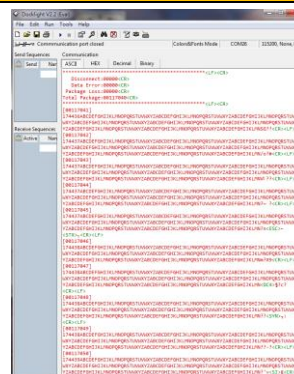
2. Thermal Shock Test



3. Thermal Shock Test



4. Functional check
MDBT50-256R/No.1



5. Functional check
MDBT50-P256R/No.2

The End of Test Report