



RF Exposure Evaluation

FCC ID: 2BBDK-DEEP-T3

Product	:	Translator
Model Name	:	DEEP-T3
Brand	:	Newtrack
Report No.	:	PTC25030324703E-FC02
Prepared for		
Shenzhen Xinyuanrun Product Information Technology Co., Ltd.		
2nd Floor, Building 5, Yantian Xifa Yongqi Science Park, No.54 Tiezai Road, Xixiang Street, Bao 'an District, Shenzhen		
Prepared by		
Precise Testing & Certification Co., Ltd.		
Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China.		



Report No.: PTC25030324703E-FC02

TEST RESULT CERTIFICATION

Applicant's name : Shenzhen Xinyuanrun Product Information Technology Co., Ltd.
Address : 2nd Floor, Building 5, Yantian Xifa Yongqi Science Park, No. 54
Tiezai Road, Xixiang Street, Bao'an District, Shenzhen
Manufacture's name : Shenzhen Xinyuanrun Product Information Technology Co., Ltd.
Address : 2nd Floor, Building 5, Yantian Xifa Yongqi Science Park, No. 54
Tiezai Road, Xixiang Street, Bao'an District, Shenzhen
Product name : Translator
Model name : DEEP-T3
Test procedure : FCC CFR47 Part 1.1307(b)(1)
Test Date : Mar. 22, 2025 to Apr. 08, 2025
Date of Issue : Apr. 09, 2025
Test Result : PASS

This device described above has been tested by PTC, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Test Engineer:

A handwritten signature in black ink, appearing to read 'Jack Zhou'.

Jack Zhou / Engineer

Technical Manager:

A handwritten signature in black ink, appearing to read 'Simon Pu'.

Simon Pu / Manager



Contents

	Page
2 TEST SUMMARY	4
2.1 TEST SITE	4
2.2 MEASUREMENT UNCERTAINTY	4
3 GENERAL INFORMATION	5
3.1 GENERAL DESCRIPTION OF E.U.T.	5
4 RF EXPOSURE	6
4.1 REQUIREMENTS	6
4.2 THE PROCEDURES / LIMIT	6
4.3 TEST RESULT	7



2 Test Summary

Test Items	Test Requirement	Result
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	15.247 (i)	PASS
Remark:		
N/A: Not Applicable		

2.1 Test Site

Precise Testing & Certification Co., Ltd

Address: Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China

FCC Registration Number: 790290

A2LA Certificate No.: 4408.01

IC Registration Number: 12191A

FCC Designation Number: CN1219

2.2 Measurement Uncertainty

Parameter	Uncertainty
RF output power, conducted	$\pm 1.0\text{dB}$
Power Spectral Density, conducted	$\pm 2.2\text{dB}$
Radio Frequency	$\pm 1 \times 10^{-6}$
Bandwidth	$\pm 1.5 \times 10^{-6}$
Time	$\pm 2\%$
Duty Cycle	$\pm 2\%$
Temperature	$\pm 1^\circ\text{C}$
Humidity	$\pm 5\%$
DC and low frequency voltages	$\pm 3\%$
Conducted Emissions (150kHz~30MHz)	$\pm 3.64\text{dB}$
Radiated Emission(9kHz~30MHz)	$\pm 3.15\text{dB}$
Radiated Emission(30MHz~1GHz)	$\pm 5.03\text{dB}$
Radiated Emission(1GHz~25GHz)	$\pm 4.74\text{dB}$



3 General Information

3.1 General Description of E.U.T.

Product	:	Translator
Model Name	:	DEEP-T3
Specification	:	BT BLE
Operating frequency	:	2402-2480MHz
Modulation	:	GFSK
Number of Channel	:	40 channels
Antenna installation	:	PCB antenna
Antenna Gain	:	1.15 dBi
Power supply	:	DC 5V via Type-C from phone
Hardware Version	:	MCG10-GF25B-DEEP-T3-V10
Software Version	:	V1.0.14
Test sample No.	:	PTC25030324703E-1/2, PTC25030324703E-2/2.



4 RF Exposure

Test Requirement : FCC Part 1.1307(b)(1)

Evaluation Method : KDB 447498 D01 General RF Exposure Guidance v06

4.1 Requirements

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 5mm normally can be maintained between the user and the device.

4.2 The procedures / limit

The 1-g and 10-g SAR test exclusion thresholds for 100MHz to 6GHz at test separation distances \leq 50mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})]^{1/2}$$

$f(\text{GHz}) \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g SAR extremity SAR, where

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison.

The test exclusions are applicable only when the minimum test separation distance is \leq 50mm and for transmission frequencies between 100MHz and 6GHz. When the minimum test separation distance is $< 5\text{mm}$, a distance of 5mm is applied to determine SAR test exclusion

Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to quality for TCB approval.



4.3 Test Result

Channel (MHz)	Maximum output power (dBm)	Tune up tolerance (dBm)	Max Tune Up Power (mW)	Distance (mm)	Calculation results	Limit	Operating Mode
2480	-5.28	-5.28±1	0.373	5	0.118	3	BLE_1M

Remark:

1. Calculate in the worst-case mode.
2. Max. Tune Up Power is declared by manufacturer, and used to calculate.

*****THE END REPORT*****