

Certificate of Test

NCT CO., LTD. 211-71, Geumgok-ro, Hwaseong-si, Gyeonggi-do, 18511, Republic of Korea (Tel: +82-31-323-6070 / Fax: +82-31-323-6071)	Report No.: NW2406-F002-1 Page (1) / (6)	NCT
1. Client ○ Name : Ubeeslab ○ Address : 1 dong-815ho, 48, Ahasan-ro 17-gil, Seongdong-gu, Seoul, Republic of Korea ○ Date of Receipt : 2024-05-10 2. Use of Report : FCC Certification 3. Test Sample ○ Description / Model : BEE LITE / UBLAB04 ○ FCC ID : 2ATBU-UBLAB04 4. Place of Test : ☒ Fixed test ☐ Field test (Address:211-71, Geumgok-ro, Hwaseong-si, Gyeonggi-do, 18511, Republic of Korea) 5. Date of Test : 2024-05-21 ~ 2024-05-31 6. Test method used : FCC Part 1.1310 7. Testing Environment : ○ Temperature: (25 ± 5) °C, Humidity: Less than 75 % R.H. * Unless specified otherwise in the individual methods, the tests were conducted on ambient conditions. 8. Test Results : Refer to the test results The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This Test Report cannot be reproduced, except in full This test report is not related to KOLAS recognition and RRA designation.		
Affirmation	Tested by Jiwon, Hong 	Technical Manager Il-shin, Kim 
Jun 14, 2024 NCT CO., LTD. 		

Contact us at report@nct.re.kr to confirm the authenticity of this report

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1. General Information's

1.1 Test Performed

Laboratory : NCT Co., Ltd.
Address : 211-71, Geumgok-ro, Hwaseong-si, Gyeonggi-do, 18511, Korea
Telephone : +82-31-323-6070
Facsimile : +82-31-323-6071
FCC Designation No. : KR0166
FCC Registration Number : 409631

2. Information's about Test Item

2.1 Applicant Information

Company name : Ubeeslab
Address : 1 dong-815ho, 48, Ahasan-ro 17-gil, Seongdong-gu, Seoul, Republic of Korea
Telephone / Facsimile : + 82-70-4786-1362 / -

2.2 Equipment Under Test (EUT) description

Test item particulars : BEE LITE
Model and/or type reference : UBLAB04
Additional model name : UBLAB03
Serial number : Prototype
Antenna type and gain : On board ceramic chip antenna with Max gain: -3.41 dBi
Date (s) of performance of tests: : 2024-05-21 ~ 2024-05-31
Date of receipt of test item : 2024-05-10
EUT condition : Pre-production, not damaged
Number of channel : 40
EUT Power Source : DC 3.70 V
Type of Modulation : GFSK
Firmware version : 1.0
Hardware version : 1.0
Test software name(version) : nRFConnect for Desktop v3.11.1

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3. Test Report

3.1 Test Report Version

Test Report No.	Date	Description
NW2406-F002	2024-06-01	Initial issue
NW2406-F002-1	2024-06-14	Modified model name

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3.2 SAR Test Exclusion Considerations for FCC

Following FCC KDB 447498 D01 “General SAR test exclusion guidance” - 4.3.1 a)

a) For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

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

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

- f(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

Modulation	Frequency (MHz)	Min. Test separation distance	Measured Maximum Average power	Tune-up tolerance	Max. Power with tune-up tolerance		Standalone SAR Test exclusion thresholds for 100MHz to 6GHz at test separation distance ≤ 50 mm	Limit	Result
		(mm)	(dBm)	(dB)	(dBm)	(mW)			
BT LE	2402	5.00	-8.16	± 0.50	-7.66	0.17	0.0531	3.00	PASS
	2440		-7.51		-7.01	0.20	0.0622	3.00	PASS
	2480		-7.22		-6.72	0.21	0.0670	3.00	PASS

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