

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.:
NW2309-F006

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**1. Client**

- Name : NC& CO., LTD
- Address : Venture Forum Bldg 9F, 323, Pangyo-ro, Budang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea
- Date of Receipt : 2023-07-03

2. Use of Report : FCC Certification**3. Test Sample**

- Description / Model : Vuroid BlackBox D21 ULTRA DUO / D21-UF
- FCC ID : 2BC09-D214K-200S0

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 : 2023-09-06 ~ 2023-09-16**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

Jun-gi Sin

(signature)

Technical Manager

Il-shin, Kim

(signature)

Sep 19, 2023

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 : NC& CO., LTD
Address : Venture Forum Bldg 9F, 323, Pangyo-ro, Budang-gu, Seongnam-si,
Gyeonggi-do, Republic of Korea
Telephone / Facsimile : +82-10-3438-2772 / +82-2-3460-4799

2.2 Equipment Under Test (EUT) description

Test item particulars : Vueroid BlackBox D21 ULTRA DUO
Model and/or type reference : D21-UF
Additional model name : D21 ULTRA Solo
Serial number : Prototype
Date (s) of performance of tests: : 2023-09-06 ~ 2023-09-16
Date of receipt of test item : 2023-07-03
EUT condition : Pre-production, not damaged
EUT Power Source : DC 12 V / 24 V
Firmware version : 1.0
Hardware version : 1.0
Test software name(version) : Tera Term 4.58

2.3 Tested Frequency

Test Mode	Test frequency (MHz)		
	Low frequency	Middle frequency	High frequency
802.11n_HT20	2 412	2 437	2 462
802.11ac_VHT20	5 180	-	-
802.11ac_VHT20	5 745	-	-

3. Test Report

3.1 Test Report Version

Test Report No.	Date	Description
NW2309-F006	2023-09-19	Initial issue

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3.2 SAR Test Exclusion Considerations for FCC

Following Title 47 Part1 § 1.1310 Table 1

Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric Field strength (V/m)	Magnetic field strength (A/m)	Power Density (mW/cm ²)	Averaging time (minutes)
0.3 ~ 3.0	614	1.63	*100	30
3.0 ~ 30	824 / f	2.19 / f	*180 / f ²	30
30 ~ 300	27.5	0.073	0.2	30
300 ~ 1,500			f / 1500	30
1,500 ~ 100,000			1	30

FCC ID : 2BCO9-D214K-200S0

Modulation	Frequency (MHz)	Measured Output power	Tune- up toleran ce	Max. Power with tune-up tolerance (P)		Antenna Gain (G)		Power Density (S)	Limit of Power Density (S)	Result
		(dBm)		(dBm)	(mW)	(dBi)	(numeric)	(mW/cm ²)	(mW/cm ²)	
802.11n_HT20 (12V)	2412	14.83	± 1.00	15.83	38.28	2.23	1.67	0.0127	1.00	PASS
	2437	15.05		16.05	40.27	2.23	1.67	0.0134	1.00	PASS
	2462	15.10		16.10	40.74	2.23	1.67	0.0135	1.00	PASS
802.11n_HT20 (24V)	2412	13.98	± 1.00	14.98	31.48	2.23	1.67	0.0105	1.00	PASS
	2437	14.70		15.70	37.15	2.23	1.67	0.0124	1.00	PASS
	2462	15.06		16.06	40.36	2.23	1.67	0.0134	1.00	PASS
802.11ac_VHT20 (12V)	5180	6.70	± 1.00	7.70	5.89	2.79	1.90	0.0022	1.00	PASS
	5745	5.41		6.41	4.38	2.79	1.90	0.0017	1.00	PASS
802.11ac_VHT20 (24V)	5180	6.68	± 1.00	7.68	5.86	2.79	1.90	0.0022	1.00	PASS
	5745	5.58		6.58	4.55	2.79	1.90	0.0017	1.00	PASS

The EUT will only be used with a separation of 20 centimeters or greater between the antenna and the body of the user.

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