



TEST REPORT

Eurofins KCTL Co.,Ltd. 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea TEL: 82-70-4904-0113 FAX: 82-505-299-8311 www.kctl.co.kr	Report No.: KR25-SRF0227 Page (1) of (9)	KCTL
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1. Client

- Name : TORDER Co.,Ltd
- Address : 46F, Park one tower2, 108, Yeoui-daero, Yeongdeungpo-gu, Seoul, Republic of Korea
- Date of Receipt : 2025-08-05

2. Use of Report : Certification

3. Name of Product / Model : Order tablet / T2N

4. Manufacturer / Country of Origin : Shenzhen Tuohai Times Technology Co., Ltd / China

5. FCC ID : 2BTKVT2N

6. IC Certificate No. : 34933-T2N

7. Date of Test : 2025-10-14 to 2025-11-10

8. Location of Test : ☒ Permanent Testing Lab ☐ On Site Testing
 (Address: 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea)

9. Test method used : 47 CRF Part 1.1310
 RSS-102 Issue 6 December 2023

10. Test Result : Refer to the test result in the test report

Affirmation	Tested by Name : Youngju Jo	Technical Manager Name : Euijung Kim
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2025-12-23

Eurofins KCTL Co.,Ltd.

As a test result of the sample which was submitted from the client, this report does not guarantee the whole product quality. This test report should not be used and copied without a written agreement by Eurofins KCTL Co.,Ltd.

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REPORT REVISION HISTORY

Date	Revision	Page No
2025-12-23	Originally issued	-

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General remarks for test reports

Statement concerning the uncertainty of the measurement systems used for the tests

(may be required by the product standard or client)

☐ Internal procedure used for type testing through which traceability of the measuring uncertainty has been established:

Procedure number, issue date and title:

Calculations leading to the reported values are on file with the testing laboratory that conducted the testing.

☒ Statement not required by the standard or client used for type testing

CONTENTS

1. General information4

2. Device information4

 2.1. Frequency/channel operations.....5

3. RF Exposure6

 3.1. Test results.....8



Eurofins KCTL Co.,Ltd. 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea TEL: 82-70-4904-0113 FAX: 82-505-299-8311 www.kctl.co.kr	Report No.: KR25-SRF0227 Page (4) of (9)	 
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1. General information

Client : TORDER Co.,Ltd
 Address : 46F, Park one tower2, 108, Yeoui-daero, Yeongdeungpo-gu, Seoul, Republic of Korea
 Manufacturer : Shenzhen Tuohai Times Technology Co., Ltd
 Address : 4-6F, Block B, Xinghui Technology Park, 2nd Road of GuShu, Xixiang Sub-district, Bao'an District, Shenzhen City.
 Laboratory : Eurofins KCTL Co.,Ltd.
 Address : 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea
 Accreditations : FCC Site Designation No: KR0040, FCC Site Registration No: 687132
 VCCI Registration No. : R-20080, G-20078, C-20059, T-20056
 CAB Identifier: KR0040
 ISED Number: 8035A
 KOLAS No.: KT231

2. Device information

Equipment under test : Order tablet
 Model : T2N
 Modulation technique : Bluetooth(BDR/EDR)_GFSK, $\pi/4$ DQPSK, 8DPSK
 Bluetooth(BLE)_GFSK
 WLAN(802.11b/g/n/a/ac)_DSSS, OFDM
 Number of channels : BT/LE : 79 ch(BDR/EDR), 40 ch(BLE)
 2.4 GHz band : 11 ch (20 MHz), 7 ch (40 MHz)
 5 GHz band
 UNII-1 : 4 ch (20 MHz), 2 ch (40 MHz), 1 ch (80 MHz)
 UNII-3 : 5 ch (20 MHz), 2 ch (40 MHz), 1 ch (80 MHz)
 Power source : DC 9 V
 Antenna type : PIFA Antenna
 Antenna gain : BT/LE : 1.30 dBi
 2.4 GHz band : 1.30 dBi
 5 GHz band
 UNII-1 : 1.29 dBi
 UNII-3 : 1.58 dBi
 Frequency range : 2.4 GHz band : 2 402 MHz ~ 2 480 MHz (Bluetooth/BLE)
 2 412 MHz ~ 2 462 MHz (802.11b/g/n_HT20)
 2 422 MHz ~ 2 452 MHz (802.11n_HT40)
 5 GHz band
 UNII-1 : 5 180 MHz ~ 5 240 MHz (802.11a/n/ac_HT20/VHT20)
 5 190 MHz ~ 5 230 MHz (802.11n/ac_HT40/VHT40)
 5 210 MHz (802.11ac_VHT80)
 UNII-3 : 5 745 MHz ~ 5 825 MHz (802.11a/n/ac_HT20/VHT20)
 5 755 MHz ~ 5 795 MHz (802.11n/ac_HT40/VHT40)
 5 775 MHz (802.11ac_VHT80)
 Software version : torder 1.5.84
 Hardware version : torder_T2N_P1C2X432_20251015_V1.1.0
 Test device serial No. : TO240SG16569
 Operation temperature : -20 °C ~ 50 °C

2.1. Frequency/channel operations

This device contains the following capabilities:

Bluetooth(BDR, EDR), Bluetooth Low Energy,

WLAN 2.4 GHz_802.11b/g/n(HT20/40), WLAN 5 GHz_802.11a/n(HT20/40)/ac(VHT20/40/80)

Ch.	Frequency (Mhz)
00	2 402
..	..
39	2 441
..	..
78	2 480

Table 2.1.1. Bluetooth(BDR/EDR)

Ch.	Frequency (Mhz)
00	2 402
..	..
19	2 440
..	..
39	2 480

Table 2.1.2. Bluetooth Low Energy(1/2 Mbps)

Ch.	Frequency (Mhz)
01	2 412
..	..
06	2 437
..	..
11	2 462

Table 2.1.3. 802.11b/g/n HT20

Ch.	Frequency (Mhz)
03	2 422
..	..
06	2 437
..	..
09	2 452

Table 2.1.4. 802.11n HT40

UNII-1

Ch.	Frequency (Mhz)
36	5 180
40	5 200
48	5 240

UNII-3

Ch.	Frequency (Mhz)
149	5 745
157	5 785
165	5 825

Table 2.1.5. WLAN 5 GHz(802.11a/n/ac_HT20/VHT20)

UNII-1

Ch.	Frequency (Mhz)
38	5 190
46	5 230

UNII-3

Ch.	Frequency (Mhz)
151	5 755
159	5 795

Table 2.1.6. WLAN 5 GHz(802.11n/ac_HT40/VHT40)

UNII-1

Ch.	Frequency (Mhz)
42	5 210

UNII-3

Ch.	Frequency (Mhz)
155	5 775

Table 2.1.7. WLAN 5 GHz(802.11ac_VHT80)

3. RF Exposure

FCC Regulation

This document is prepared to show compliance with the RF Exposure requirements as required in §1.1310 of the FCC rules and Regulations.

The limit for Maximum Permissible Exposure (MPE), specified in FCC §1.1310, is listed in Table 1-1. According to FCC §1.1310: the criteria listed in the following table shall be used to evaluate the environmental impact of human exposure to radio-frequency (RF) radiation as specified in §1.1307(b).

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 [minute]
(A) Limits for Occupational / Controlled Exposure				
0.3 ~ 3.0	614	1.63	*100	6
3.0 ~ 30	1842/f	4.89/f	*900/f ²	6
30 ~ 300	61.4	0.163	1.0	6
300 ~ 1 500	/	/	f/300	6
1 500 ~ 15 000	/	/	5	6
(B) Limits for General Population / Uncontrolled Exposure				
0.3 ~ 1.34	614	1.63	*100	30
1.34 ~ 30	824/f	2.19/f	*180/f ²	30
30 ~ 300	27.5	0.073	0.2	30
300 ~ 1 500	/	/	f/1 500	30
1 500 ~ 15 000	/	/	1.0	30

f=frequency in MHz, * = plane-wave equivalent power density

Per the guidance of KDB 680106, the E-field and H-field limits shown in the table above are extended down to 100 kHz

IC

RF Field strength and power density limits for devices used by the general public (uncontrolled environment)

Frequency Range (MHz)	Electric Field (V _{RMS} /m rms)	Magnetic Field (A _{RMS} /m)	Power Density (W/m ²)	Reference Period (minutes)
10-20	27.46	0.072 8	2	6
20-48	58.07 / $f^{0.25}$	0.154 0 / $f^{0.25}$	8.944 / $f^{0.5}$	6
48-300	22.06	0.058 52	1.291	6
300-6 000	3.142 $f^{0.341\ 7}$	0.008 335 $f^{0.341\ 7}$	0.026 19 $f^{0.683\ 4}$	6
6 000-15 000	61.4	0.163	10	6
15 000-150 000	61.4	0.163	10	616 000/ $f^{1.2}$
150 000-300 000	0.158 $f^{0.5}$	$4.21 \times 10^{-4} f^{0.5}$	$6.67 \times 10^{-5} f$	616 000/ $f^{1.2}$

Note: f is frequency in MHz.

RF field strength and power density limits for controlled-use devices (controlled environment)

Frequency Range (MHz)	Electric Field (V _{RMS} /m rms)	Magnetic Field (A _{RMS} /m)	Power Density (W/m ²)	Reference Period (minutes)
10-20	61.4	0.163	10	6
20-48	129.8 / $f^{0.25}$	0.344 4 / $f^{0.25}$	44.72 / $f^{0.5}$	6
48-100	49.33	0.130 9	6.455	6
100-6 000	15.60 $f^{0.25}$	0.041 38 $f^{0.25}$	0.645 5 $f^{0.5}$	6
6 000-15 000	137	0.364	50	6
15 000-150 000	137	0.364	50	616 000/ $f^{1.2}$
150 000-300 000	0.354 $f^{0.5}$	$9.40 \times 10^{-4} f^{0.5}$	$3.33 \times 10^{-4} f$	616 000/ $f^{1.2}$

Note: f is frequency in MHz.

For both table 7 and table 8, refer to Health Canada's Safety Code 6 for relevant notes and additional information.

Field reference level exposure exemption limits

Field reference level (FRL) exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm (i.e. mobile devices), except when the device operates as follows:

- below 20 MHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than 1 W (adjusted for tune-up tolerance)
- at or above 20 MHz and below 48 MHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than $4.49/f^{0.5}$ W (adjusted for tune-up tolerance), where f is in MHz
- at or above 48 MHz and below 300 MHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than 0.6 W (adjusted for tune-up tolerance)
- at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than $1.31 \times 10^{-2} f^{0.6834}$ W (adjusted for tune-up tolerance), where f is in MHz
- at or above 6 GHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than 5 W (adjusted for tune-up tolerance)

In these cases, the information contained in the RF exposure technical brief may be limited to information that demonstrates how the EIRP was derived.

3.1. Test results

FCC

MPE (Maximum Permissible Exposure) Prediction

Predication of MPE limit at a given distance: Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG/4\pi R^2 \quad (\Rightarrow R = \sqrt{PG/4\pi S})$$

S = power density [mW/cm^2]

P = Power input to antenna [mW]

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna [cm]

IC

RF Exposure evaluation

At or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $1.31 \times 10^{-2} f^{0.6834}$ W (adjusted for tune-up tolerance), where f is in MHz;

Calculation Result of RF exposure (FCC)

Maximum tune-up tolerance (Worst Case)

Mode	Frequency [MHz]	Max Tune-up Power [dBm]	Max Tune-up Power [mW]	Power density at 20 cm [mW/cm ²]	Limit [mW/cm ²]
Bluetooth	2 441	9.00	7.94	0.002 14	1.00
Bluetooth Low Energy	2 402	8.50	7.08	0.001 90	1.00
2.4G_802.11b	2 437	20.00	100.00	0.026 84	1.00
5G_U-NII-1_802.11n_HT20	5 180	15.00	31.62	0.008 47	1.00
5G_U-NII-3_802.11ac_VHT20	5 785	18.00	63.10	0.018 06	1.00

Calculation Results of RF exposure (IC)

Maximum tune-up tolerance (Worst Case)

Mode	Frequency [MHz]	Max Tune-up Power [dBm]	Ant Gain [dBi]	E.I.R.P.		Limit [mW]
				[dBm]	[mW]	
Bluetooth	2 441	9.00	1.30	10.3	10.72	2 706.05
Bluetooth Low Energy	2 402	8.50	1.30	9.8	9.55	2 676.42
2.4G_802.11b	2 437	20.00	1.30	21.3	134.90	2 703.01
5G_U-NII-1_802.11n_HT20	5 180	15.00	1.29	16.3	42.56	4 525.27
5G_U-NII-3_802.11ac_VHT20	5 785	18.00	1.58	19.6	90.78	4 880.11

End of test report