

# **FCC Test Report**

Report No.: AGC05794221201FE10

FCC ID	:	2ANFN-2800-75BK
APPLICATION PURPOSE		Original Equipment
PRODUCT DESIGNATION	:	RPET MagClick Fast Wireless JournalBook
BRAND NAME	:	N/A
MODEL NAME	:	2800-75BK, 240653
APPLICANT	:	Anhui Inno-Sign International Co., Ltd
DATE OF ISSUE	:	Dec. 28, 2022
STANDARD(S)	:	FCC Part 15 Subpart C
<b>REPORT VERSION</b>	:	V 1.0
<u>Attestation of</u>	G	obal Compliance (Shenzhen) Co., Ltd





#### **REPORT REVISE RECORD**

Report Version	Revise Time	Issued Date Valid Version Notes		Notes
V1.0	/	Dec. 28, 2022	Valid	Initial Release



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## **1. GENERAL INFORMATION**

Applicant	Anhui Inno-Sign International Co., Ltd		
Address	Room 1409-1410, Building B, Sky Blue Business Center, No.188 South Qianshan Road, Hefei, Anhui, China		
Manufacturer	DONGGUAN COHESION LEATHER GOODS CO., LTD		
Address	ROOM 101, BUILDING 2, NO.37 TAOYUAN ROAD, NANSHE DISTRICT, CHASHAN TOWN, DONGGUAN, GUANGDONG, CHINA		
Factory	DONGGUAN COHESION LEATHER GOODS CO., LTD		
Address	ROOM 101, BUILDING 2, NO.37 TAOYUAN ROAD, NANSHE DISTRICT, CHASHAN TOWN, DONGGUAN, GUANGDONG, CHINA		
Product Designation RPET MagClick Fast Wireless JournalBook			
Brand Name	N/A		
Test Model 2800-75BK			
Series Model 240653			
Declaration Difference         All the same except for the model name			
Date of receipt of test item Dec. 13, 2022			
Date of test	Dec. 13, 2022 to Dec. 26, 2022		
Deviation from Standard	No any deviation from the test method		
Test Result	Pass		
Test Report Form No	AGCTR-ER-FCC-WPTV1.0		

Bibo shay

Bibo Zhang (Project Engineer)

Dec. 28, 2022

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Dec. 28, 2022

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Dec. 28, 2022

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## 2. PRODUCT INFORMATION

#### 2.1 PRODUCT TECHNICAL DESCRIPTION

Hardware Version	V1.0
Software Version	V1.0
Operation Frequency	111KHz-205KHz
Modulation Type	ASK
Number of channels	1
Field Strength of Fundamental	68.01dBuV/m (Max)
Antenna Designation	Coil Antenna
Antenna Gain	0dBi
Power Supply	Type-C Input: 9V/2A
Wireless Charging Output Power	5W/7.5W/10W/15W

#### 2.2 TEST FREQUENCY LIST

Frequency Band	Channel Number	Frequency
111KHz-205KHz	01	143.8 KHz



## 2.3 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for FCC ID: 2ANFN-2800-75BK filing to comply with Part 2, Part 15 of the Federal Communication Commission rules.

#### 2.4 TEST METHODOLOGY

The tests were performed according to following standards:

No.	Identity	Document Title	
1	FCC 47 CFR Part 2	Frequency allocations and radio treaty matters; general rules and regulations	
2	FCC 47 CFR Part 15	Radio Frequency Devices	
3	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices	

#### **2.5 SPECIAL ACCESSORIES**

Not available for this EUT intended for grant.

#### 2.6 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

#### 2.7 ANTENNA REQUIREMENT

#### **Standard Requirement**

#### 15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antennathat uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a brokenantenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

#### EUT Antenna:

The non-detachable antenna inside the device cannot be replaced by the user at will. The gain of the antenna is 0 dBi.



## **3. TEST ENVIRONMENT**

## 3.1 ADDRESS OF THE TEST LABORATORY

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd.

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

#### **3.2 TEST FACILITY**

The test facility is recognized, certified, or accredited by the following organizations:

#### CNAS-Lab Code: L5488

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements) for the Competence of Testing and Calibration Laboratories.

#### A2LA-Lab Cert. No.: 5054.02

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

#### FCC-Registration No.: 975832

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

#### IC-Registration No.: 24842 (CAB identifier: CN0063)

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.



#### **3.3 ENVIRONMENTAL CONDITIONS**

	NORMAL CONDITIONS	EXTREME CONDITIONS		
Temperature range (°C)	15 - 35	-20 - 50		
Relative humidty range	20 % - 75 %	20 % - 75 %		
Pressure range (kPa)	86 - 106	86 - 106		
Power supply				
Note: The Extreme Temperature and Extreme Voltages declared by the manufacturer.				

## **3.4 MEASUREMENT UNCERTAINTY**

The reported uncertainty of measurement y ±U, where expended uncertainty U is based on a standard

uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

Item	Measurement Uncertainty
Uncertainty of Conducted Emission for AC Port	$U_c = \pm 2.9 \text{ dB}$
Uncertainty of Radiated Emission below 150kHz	$U_c = \pm 4.2 \text{ dB}$
Uncertainty of Radiated Emission below 30MHz	$U_c = \pm 3.8 \text{ dB}$
Uncertainty of Radiated Emission below 1GHz	$U_c = \pm 4.0 \text{ dB}$
Uncertainty of total RF power, conducted	$U_c = \pm 0.8 \text{ dB}$
Uncertainty of RF power density, conducted	$U_c = \pm 2.6 \text{ dB}$
Uncertainty of spurious emissions, conducted	$U_{c} = \pm 2.7 \%$
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2 \%$



#### 3.5 LIST OF EQUIPMENTS USED

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Test Receiver	R&S	ESPI	101206	Mar. 28, 2022	Mar. 27, 2023
Artificial power network	R&S	ESH2-Z5	100086	Jun. 08, 2022	Jun. 07, 2023
Test Software	FARA	EZ-EMC	Ver. AGC-CON03A1	N/A	N/A
Test Receiver	R&S	ESCI	10096	Mar. 28, 2022	Mar. 27, 2023
EXA Signal Analyzer	Agilent	N9010A	MY53470504	Aug. 04, 2022	Aug. 03, 2023
Active Loop Antenna (9K-30Mhz)	ZHINAN	ZN30900C	18051	Mar. 12, 2022	Mar. 11, 2024
Wideband Antenna	SCHWARZBECK	VULB9168	VULB9168-494	Jan. 08, 2021	Jan. 07, 2023
Test Software	FARA	EZ-EMC	Ver.RA-03A	N/A	N/A



# **4.SYSTEM TEST CONFIGURATION**

## **4.1 EUT CONFIGURATION**

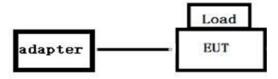
The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

## 4.2 EUT EXERCISE

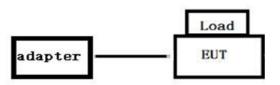
The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

## **4.3 CONFIGURATION OF TESTED SYSTEM**

Radiated Emission Configure:



Conducted Emission Configure:



#### 4.4 EQUIPMENT USED IN TESTED SYSTEM

The Following Peripheral Devices And Interface Cables Were Connected During The Measurement: Test Accessories Come From The Laboratory

ltem	Equipment	Model No.	Identifier	Note
1	Wireless charging load	N/A	N/A	Accessories
2	Adapter	HW-050200C01	DC 5V	Accessories

☐ Test Accessories Come From The Manufacturer

ltem	Equipment	Model No.	Identifier	Note
1	RPET MagClick Fast Wireless JournalBook	2800-75BK	2ANFN-2800-75BK	EUT
2	Charger line	N/A	1.0m unshielded	Accessories

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#### **4.5 SUMMARY OF TEST RESULTS**

ltem	FCC Rules	Description Of Test	Result
1	§15.203	Antenna Equipment	Pass
2	§15.209(a)(f)	Radiated Spurious Emission	Pass
3	§15.215(c)	20dB Bandwidth	Pass
4	§15.205(a)	Restricted Bands of Operation	Pass
5	§15.207	AC Power Line Conducted Emission	Pass



# 5. DESCRIPTION OF TEST MODES

	Summary table of Test Cases
Test Item	Equipment type / Modulation
iest item	WPT_(TX:143.8KHz)/ ASK
	Mode 1: DUT + Wireless load (15W Full load mode)
	Mode 2: DUT + Wireless load (10W Full load mode)
	Mode 3: DUT + Wireless load (7.5W Full load mode)
Radiated&Conducted	Mode 4: DUT + Wireless load (5W Full load mode)
Test Cases	Mode 5: DUT + Wireless load (7.5W Half load mode)
	Mode 6: DUT + Wireless load (5W Half load mode)
	Mode 7: DUT + wireless load (Null Load mode)
	Mode 1: DUT + Wireless load (15W Full load mode)
	Mode 2: DUT + Wireless load (10W Full load mode)
	Mode 3: DUT + Wireless load (7.5W Full load mode)
AC Conducted Emission	Mode 4: DUT + Wireless load (5W Full load mode)
	Mode 5: DUT + Wireless load (7.5W Half load mode)
	Mode 6: DUT + Wireless load (5W Half load mode)
	Mode 7: DUT + wireless load (Null Load mode)

Only the result of the worst case was recorded in the report, if no other cases. 1.

2. 3. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

Only the result of the worst case was recorded in the report in the range of 9K-150KHz, if no other cases.



# 6. FIELD STRENGTH OF FUNDAMENTAL

## 6.1 PROVISIONS APPLICABLE

Test Requirement:	FCC Part15 C Secti	ion 15.209			
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	9kHz to 1GHz				
Test site:	Measurement Dista	nce: 3m			
	Frequency	Detector	RBW	VBW	Value
	9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
Receiver setup:	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak
		Peak	1MHz	3MHz	Peak
	Above TGHZ	Peak	1MHz	10Hz	Average
	Above 1GHz	Peak	1MHz	10Hz	Average

#### Limits for frequency below 30MHz

Frequency	Limit (uV/m)	Measurement Distance(m)	Remark
0.009-0.490	2400/F(kHz)	300	Quasi-peak Value
0.490-1.705	24000/F(kHz)	30	Quasi-peak Value
1.705-30	30	30	Quasi-peak Value

#### Limits for frequency Above 30MHz

Frequency	Limit (dBuV/m @3m)	Remark
30MHz-88MHz	40.00	Quasi-peak Value
88MHz-216MHz	43.50	Quasi-peak Value
216MHz-960MHz	46.00	Quasi-peak Value
960MHz-1GHz	54.00	Quasi-peak Value
Above 1GHz	54.00	Average Value
	74.00	Peak Value

Remark: (1) Emission level dB  $\mu$  V = 20 log Emission level  $\mu$  V/m

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

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## **6.2 MEASUREMENT PROCEDURE**

- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.



#### 6.3 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any), Average Factor (optional) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CF - AG - AV

where FS = Field Strength in  $dB\mu V/m$ 

RA = Receiver Amplitude (including preamplifier) in dBµV

CF = Cable Attenuation Factor in dB

AF = Antenna Factor in dB/m

AG = Amplifier Gain in dB

AV = Average Factor in dB

In the following table(s), the reading shown on the data table reflects the preamplifier gain. An example for the calculations in the following table is as follows:

FS = RR + LF

where  $FS = Field Strength in dB\mu V/m$ RR = RA - AG - AV in dB $\mu$ V LF = CF + AF in dB

Assume a receiver reading of 52.0 dB $\mu$ V is obtained. The antenna factor of 7.4 dB/m and cable factor of 1.6 dB are added. The amplifier gain of 29 dB and average factor of 5 dB are subtracted, giving a field strength of 27 dB $\mu$ V/m.

This value in dB $\mu$ V/m was converted to its corresponding level in  $\mu$ V/m.

 $\begin{array}{ll} {\sf RA} = 52.0 \; d{\sf B}\mu{\sf V}/{\sf m} & \\ {\sf AF} = 7.4 \; d{\sf B}/{\sf m} & {\sf RR} = 18.0 \; d{\sf B}\mu{\sf V} \\ {\sf CF} = 1.6 \; d{\sf B} & {\sf LF} = 9.0 \; d{\sf B} \\ {\sf AG} = 29.0 \; d{\sf B} & \\ {\sf AV} = 5.0 \; d{\sf B} & \\ {\sf FS} = {\sf RR} + {\sf LF} \\ {\sf FS} = 18 + 9 = 27 \; d{\sf B}\mu{\sf V}/{\sf m} & \\ \end{array}$ 

Level in  $\mu$ V/m = Common Antilogarithm [(27 dB $\mu$ V/m)/20] = 22.4  $\mu$ V/m

Magnetic field strength calculation (9 kHz – 30 MHz)

When the limit is in terms of magnetic field, the following equation applies: U(z) = V(z) =

```
H[dB(\mu A/m)] = V[dB(\mu V)] + LC [dB] - GPA [dB] + AFH [dB(S/m)]
```

#### Where,

H is the magnetic field strength (to be compared with the limit), V is the voltage level measured by the receiver or spectrum analyzer, LC is the cable loss, GPA is the gain of the preamplifier (if used), and AFH is the magnetic antenna factor.

If the "electrical" antenna factor is used instead, the above equation becomes:

 $H[dB(\mu A/m)] = V[dB(\mu V)] + LC [dB] - GPA [dB] + AFE [dB(m-1)] - 51.5 [dB\Omega]$ 

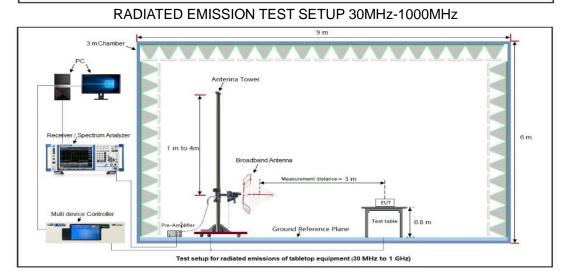
where AFE is the "electric" antenna factor, as provided by the antenna calibration laboratory.

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#### 6.4 MEASUREMENT SETUP (BLOCK DIAGRAM OF CONFIGURATION)

RADIATED EMISSION TEST SETUP 9KHz-30MHz



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209 and FCC 15.205 limits.



#### **6.5 MEASUREMENT RESULTS**

#### ELECTRIC FIELD TEST IN THE FREQUENCY RANGE 9KHz-150KHz

EUT	RPET MagCli JournalBook	ick Fast Wir	eless	Model Name		2800-75	ЗК
Temperature	22°C			Relative Hum	nidity	54%	
Pressure	985hPa			Test Voltage		Normal V	/oltage
Test Mode	Mode 1			Antenna		Face	
132.0 dBuV/n	1						
72	m Museum Marine				2		
0.009			(MHz)				0.150
No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	0.0158	15.72	27.91	43.63	123.4	-79.82	peak
2	0.0417	15.58	25.97	41.55	115.0	-73.52	peak
3	0.0439	15.97	25.81	41.78	114.6	-72.85	peak
4	0.0514	16.84	25.25	42.09	113.2	-71.17	peak
5	0.0623	13.45	24.44	37.89	111.6	-73.71	peak
6 *	0.1438	46.47	21.54	68.01	104.3	-36.37	peak

## **RESULT: PASS**



			lial East Min					
EUT		JournalBook	lick Fast Wir	eiess	Model Name		2800-75	ЗК
Temperature	2	22°C			Relative Hun	nidity	54%	
Pressure	9	985hPa			Test Voltage		Normal V	/oltage
Test Mode		Mode 1			Antenna		Side	
132.0 d	BuV/m							
12.0	WWWW	Mrcalleration	un man and		Man Mary	VNnorman <sup>ar</sup>	www.ww	0.150
	VNAVIH	Mrcalleration	Reading	(MHz)	Measure-			0.150
12.0		Mrcalun Ammy		(MHz)		Limit	Www Www Www Www Www Www Www Www Www Www	
12.0 0.009			Reading	(MHz) Correct	Measure-			
12.0 0.009		Freq.	Reading Level	(MHz) Correct Factor	Measure- ment	Limit	Over	0.150
12.0 0.009		Freq.	Reading Level dBuV	(MHz) Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over	0.150 Detector
12.0 0.009 No.		Freq. MHz 0.0154	Reading Level dBuV 15.09	(MH₂) Correct Factor dB 27.94	Measure- ment dBuV/m 43.03	Limit dB/m 123.6	Over dB -80.64	0.150 Detector peak
12.0 0.009 No. 1 2		Freq. MHz 0.0154 0.0235	Reading Level dBuV 15.09 10.27	(MHz) Correct Factor dB 27.94 27.33	Measure- ment dBuV/m 43.03 37.60	Limit dB/m 123.6 120.0	Over dB -80.64 -82.42	0.150 Detector peak peak
12.0 0.009 No. 1 2 3		Freq. MHz 0.0154 0.0235 0.0417	Reading Level dBuV 15.09 10.27 13.65	(MHz) Correct Factor dB 27.94 27.33 25.97	Measure- ment dBuV/m 43.03 37.60 39.62	Limit dB/m 123.6 120.0 115.0	Over dB -80.64 -82.42 -75.45	0.150 Detector peak peak peak

#### ELECTRIC FIELD TEST IN THE FREQUENCY RANGE 9KHz-150KHz

**RESULT: PASS** 



					JE ISUKI		
EUT	RPET MagC JournalBook		eiess	Model Name		2800-75B	K
Temperature	22°C			Relative Hum	idity	54%	
Pressure	985hPa			Test Voltage		Normal V	oltage
Test Mode	Mode 1			Antenna		Face	
112.0 dBuV/m			(MHz)	h	guelen in a die en	Limit: Margi	in:
0.150	0.1	Reading	Correct	Measure-			50.000
No. Mk	Freq.	Level	Factor	ment	Limit	Over	
	MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	0.2630	6.90	21.32	28.22	99.17	-70.95	peak
2	0.3446	8.07	21.17	29.24	96.84	-67.60	peak
3	0.4812	9.25	20.91	30.16	93.95	-63.79	peak
4	1.0597	5.92	21.34	27.26	67.10	-39.84	peak
5 *	8.6372	8.47	24.01	32.48	69.54	-37.06	peak
6	19.0210	6.11	25.04	31.15	69.54	-38.39	peak

#### ELECTRIC FIELD TEST IN THE FREQUENCY RANGE 150KHz-30MHz

**RESULT: PASS** 



т	RPET Ma JournalBo	gClick Fast Wir	eless	Model Name		2800-75	BK
nperature	22°C			Relative Hun	nidity	54%	
essure	985hPa			Test Voltage		Normal \	/oltage
st Mode	Mode 1			Antenna		Side	
112.0 dB	W/m					Limit	
44	Muningthe Work	inennettenskoliger Innennettenskoliger	nfiliechd orl United ord W	A May and and a market the	Martin and and	nerskopningkonservede	utritun da di trin
-8 0.150		2 200 <sup>00001</sup> 0.5	ylykolyget/opender/Al (MHz)	3 	A S Nr. Mar man	nachaga in féar-an-de	5 
		0.5 Reading			Limit	Over	5 Mr. C. A. M. Mr. Mr. Mr. Mr. Mr. Mr. Mr. Mr. Mr.
0.150		0.5 Reading	(MHz) Correct	5 Measure-		Over dB	Betector
0.150	Mk. Freq.	0.5 Reading Level dBuV	(MHz) Correct Factor	5 Measure- ment	Limit		
0.150 No.	Mk. Freq. MHz	0.5 Reading Level dBuV 0 6.96	(MHz) Correct Factor dB	5 Measure- ment dBuV/m	Limit dB/m	dB	Detector
0.150 No.	Mk. Freq. MHz 0.2049	0.5 Reading Level dBuV 0 6.96 2 6.97	(MHz) Correct Factor dB 21.43	5 Measure- ment dBuV/m 28.39	Limit dB/m 101.3	dB -72.94	Detector peak
0.150 No.	Mk. Freq. MHz 0.2049 0.5762	0.5 Reading Level dBuV 0 6.96 2 6.97 2 6.97	(MHz) Correct Factor dB 21.43 20.94	5 Measure- ment dBuV/m 28.39 27.91	Limit dB/m 101.3 72.39	dB -72.94 -44.48	Detector peak peak
0.150 No. 1 2 3	Mk. Freq. MHz 0.2049 0.5762 2.7942	0.5 Reading Level dBuV 0 6.96 2 6.97 2 6.97 4 7.78	(MHz) Correct Factor dB 21.43 20.94 22.35	5 Measure- ment dBuV/m 28.39 27.91 29.32 31.10	Limit dB/m 101.3 72.39 69.54	dB -72.94 -44.48 -40.22	Detector peak peak peak

## ELECTRIC FIELD TEST IN THE FREQUENCY RANGE 150KHz-30MHz

# RESULT: PASS

## NOTES:

- 1. Quasi-Peak detector is used for frequency below 30MHz.
- 2. Negative value in the margin column shows emission below limit.
- 3. All measurements were made with 0.6m loop antenna at 3m distance. All emissions are below the QP limit.
- 4. Corr. Factor= Antenna Factor (dB/m) + Cable Loss (dB)
- 5. Loop antenna is used for the emission under 30MHz.

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EUT         RPET MagClick Fast Wireless JournalBook         Model Name         2800-75BK           Temperature         22°C         Relative Humidity         54%           Pressure         985hPa         Test Voltage         Normal Voltage           Test Mode         Mode 1         Antenna         Horizontal           View         Mode 1         Antenna         Horizontal           View         View         View         View         View           View         View         View         View         View         View           View         View         View         View         View         View         View           View         View         View         View         View         View         View         View         View           View         View         View         View         View         View         View         View         View           View         Reading Box 000         Correct Factor         Measure- ment         Limit         Over           No. Mk.         Freq.         Reading Level         Correct Factor         Measure- ment         Limit         Over           MHz         dBuV         dB         dBuV/m         dB							D EMISSION	BELOW	1GH	lz					
Pressure         985hPa         Test Voltage         Normal Voltage           Test Mode         Mode 1         Antenna         Horizontal           View         Mode 1         Antenna         Horizontal           View         Magin:         Magin:         Magin:         Magin:           View         Magin:         Magin:         Magin:         Magin:         Magin:           View         Magin:         Magin:         Magin:         Magin:         Magin:         Magin:           View         Magin:         Magin:         Magin:         Magin:         Magin:         Magin:           View         Magin:         Magin:         Magin:         Magin:         Magin:         Magin:           View         Militz         Magin:         Magin:         Magin:         Magin:         Magin:         Magin:           Mode 1         Magin:         Magin:         Magin:         Magin:         Magin:         Magin:         Magin:           Magin:         Magin:         Magin:         Magin:         Magin:         Magin:         Magin:         Magin:         Magin:         Magin:         Magin:         Magin:         Magin:         Magin:         Magin:         Magin:	EUT					ck Fa	st Wireless	Mode	I Na	me		2800	)-75	BK	
Test Mode         Mode 1         Antenna         Horizontal           72.0         dBW/m         Imit:	Temperature	1	229	°C				Relat	ive ⊦	lumidity		54%			
No. Mk.       Freq.       Reading Level       Correct Factor       Measure-ment       Limit       Over         MHz       dBuV       dB       dBuV/m       dB/m       dB       Detector         1       87.4177       13.45       15.62       29.07       40.00       -10.93       peak         2       119.4361       7.07       21.80       28.87       43.50       -14.63       peak         3       191.7450       14.46       16.32       30.78       43.50       -12.72       peak         4       244.2321       14.67       22.06       36.73       46.00       -9.27       peak	Pressure		98	5hPa				Test \	Volta	ge		Norn	nal \	/oltage	
No.         Mk.         Freq.         Reading Level         Correct Factor         Measure- ment         Limit         Over           MHz         dBUV         dB         dBUV/m         dB/m         dB         Detector           1         87.4177         13.45         15.62         29.07         40.00         -10.93         peak           2         119.4361         7.07         21.80         28.87         43.50         -14.63         peak           3         191.7450         14.46         16.32         30.78         43.50         -12.72         peak           4         244.2321         14.67         22.06         36.73         46.00         -9.27         peak	Test Mode		Мо	de 1				Anter	nna			Horiz	zont	al	
No.Mk.Freq.Reading LevelCorrect FactorMeasure- mentLimitOverMHzdBuVdBdBuV/mdB/mdBDetector187.417713.4515.6229.0740.00-10.93peak2119.43617.0721.8028.8743.50-14.63peak3191.745014.4616.3230.7843.50-12.72peak4244.232114.6722.0636.7346.00-9.27peak5315.480811.4726.0537.5246.00-8.48peak	32					Egyan Martin	*			Marcan And A			rgin:		
No.         Mk.         Freq.         Level         Factor         ment         Limit         Over           MHz         dBuV         dB         dBuV/m         dB/m         dB         Detector           1         87.4177         13.45         15.62         29.07         40.00         -10.93         peak           2         119.4361         7.07         21.80         28.87         43.50         -14.63         peak           3         191.7450         14.46         16.32         30.78         43.50         -12.72         peak           4         244.2321         14.67         22.06         36.73         46.00         -9.27         peak           5         315.4808         11.47         26.05         37.52         46.00         -8.48         peak	30.000	40	50 60							400	500	600	700	1000.000	)
1       87.4177       13.45       15.62       29.07       40.00       -10.93       peak         2       119.4361       7.07       21.80       28.87       43.50       -14.63       peak         3       191.7450       14.46       16.32       30.78       43.50       -12.72       peak         4       244.2321       14.67       22.06       36.73       46.00       -9.27       peak         5       315.4808       11.47       26.05       37.52       46.00       -8.48       peak	No.	Mk.	Freq			-				Limit		Ove	r		
2       119.4361       7.07       21.80       28.87       43.50       -14.63       peak         3       191.7450       14.46       16.32       30.78       43.50       -12.72       peak         4       244.2321       14.67       22.06       36.73       46.00       -9.27       peak         5       315.4808       11.47       26.05       37.52       46.00       -8.48       peak			MHz		dBu	V	dB	dBuV/r	m	dB/m		dB	l	Detector	r
3       191.7450       14.46       16.32       30.78       43.50       -12.72       peak         4       244.2321       14.67       22.06       36.73       46.00       -9.27       peak         5       315.4808       11.47       26.05       37.52       46.00       -8.48       peak	1	8	7.417	7	13.4	45	15.62	29.07	7	40.00	-'	10.9	3	peak	-
4       244.2321       14.67       22.06       36.73       46.00       -9.27       peak         5       315.4808       11.47       26.05       37.52       46.00       -8.48       peak	2	11	9.436	1	7.0	)7	21.80	28.87	7	43.50	-'	14.6	3	peak	-
5 315.4808 11.47 26.05 37.52 46.00 -8.48 peak	3	19	1.745	0	14.4	<b>1</b> 6	16.32	30.78	8	43.50	-'	12.7	2	peak	-
	4	24	4.232	1	14.6	67	22.06	36.73	3	46.00		9.27	7	peak	-
6 * 878.3214 6.50 32.03 38.53 46.00 -7.47 peak	5	31	5.480	8	11.4	47	26.05	37.52	2	46.00	-	8.48	3	peak	-
	6	* 87	8.321	4	6.5	50	32.03	38.53	3	46.00	-	7.47	7	peak	-

## DADIATED EMICCION DEL OW ACU-

**RESULT: PASS** 



	RADIATED EMISS		
EUT	RPET MagClick Fast Wirele JournalBook	SS Model Name	2800-75BK
Temperature	22°C	Relative Humidity	54%
Pressure	985hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical
72.0 dBuV/m			Limit: — Margin: —
-8			
-8 30.000 40 50	60 70 80 (MH:		500 600 700 1000.000
30.000 40 50	60 70 80 (MH) Reading Corre	ct Measure-	500 600 700 1000.000 Over
30.000 40 50	Reading Corre	ct Measure-	
<u>30.000</u> 40 50	Reading Corre Freq. Level Facto	ct Measure- or ment Limit dBuV/m dB/m	Over
<u>30.000 40 50</u> No. Mk. F 1 30.0	Reading Corre Freq. Level Facto MHz dBuV dB	ct Measure- per ment Limit dBuV/m dB/m 1 31.26 40.00	Over dB Detector
30.000 40 50 No. Mk. F 1 30.0 2 * 43.2	Reading Corre Freq. Level Factor MHz dBuV dB 1054 15.65 15.6	Measure- ment         Limit           dBuV/m         dB/m           1         31.26         40.00           3         35.97         40.00	Over dB Detector -8.74 peak
30.000         40         50           No.         Mk.         F           1         30.2           2         *         43.2           3         52.2	Reading         Corre           Freq.         Level         Factor           MHz         dBuV         dB           1054         15.65         15.65           2017         19.04         16.93	Measure- ment         Limit           dBuV/m         dB/m           1         31.26         40.00           3         35.97         40.00           3         33.11         40.00	Over dB Detector -8.74 peak -4.03 peak
30.000         40         50           No.         Mk.         F           1         30.1           2         *         43.2           3         52.1           4         88.3	Reading Level         Corre Factor           MHz         dBuV         dB           1054         15.65         15.65           2017         19.04         16.93           7600         16.08         17.03	ct mentMeasure- mentLimitdBuV/mdB/m131.2640.00335.9740.00333.1140.00935.1443.50	Over dB Detector -8.74 peak -4.03 peak -6.89 peak

## 

## **RESULT: PASS**

Note: 1. Factor=Antenna Factor + Cable loss, Over=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.



# 7. 20 dB BANDWIDTH

#### 7.1 PROVISIONS APPLICABLE

N/A

## 7.2 MEASUREMENT PROCEDURE

Set the parameters of SPA as below:

- 1. The spectrum analyzer connected via a receive antenna placed near the EUT in peak Max hold mode.
- 2. Centre frequency = Operation Frequency
- 3. The resolution bandwidth of 300 Hz and the video bandwidth of 1 kHz were used.
- 4. Span: 3kHz, Sweep time: Auto
- 5. Set the EUT to continue transmitting mode. Allow the trace to stabilize. Use the "N dB down" function of SPA to define the bandwidth.
- 6. Measured the spectrum width with power higher than 20dB below carrier.
- 7. Measured the 99% OBW.
- 8. Record the plots and Reported.

## 7.3 MEASUREMENT SETUP (BLOCK DIAGRAM OF CONFIGURATION)



Spectrum Analyzer



## 7.4 MEASUREMENT RESULTS

	Test Data of Occupied Bandwidth and -20dB Bandwidth						
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (kHz)	-20dB Bandwidth (kHz)	Limits (MHz)	Pass or Fail		
ASK	0.1438	0.767	0.874	N/A	Pass		

#### Test Graphs of Occupied Bandwidth&-20dB Bandwidth

Agilent Spectrum Analyzer - Occupied BW							
		SENSE:PULSE enter Freq: 143.800 kł rig: Free Run Atten: 10 dB	ALIGN AUTO Hz Avg Hold:>10/10	Radio Std		Fr	equency
10 dB/div Ref 10.00 dBm	Gain:Low #4	Ruen. IV 4B		Naulo Del	nce. B 13		
-10.0						C	<b>Center Freq</b> 143.800 kHz
-20.0							
-50.0							
-70.0							
Center 143.8 kHz #Res BW 300 Hz		#VBW 1 kHz		Sweep	oan 3 kHz 40.87 ms		CF Step 300 Hz
Occupied Bandwidth	767 Hz	Total Pov	ver -12.7	′ dBm		<u>Auto</u>	Man
Transmit Freq Error	159 Hz	Z OBW Pov		9.00 %			F <b>req Offset</b> 0 Hz
x dB Bandwidth	874 Hz	z xdB	-20.	00 dB			
MSG			STATU	S 🔔 AC cou	ipled: Accy u	nspec'd	< 10MHz



# 8. AC POWER LINE CONDUCTED EMISSION TEST

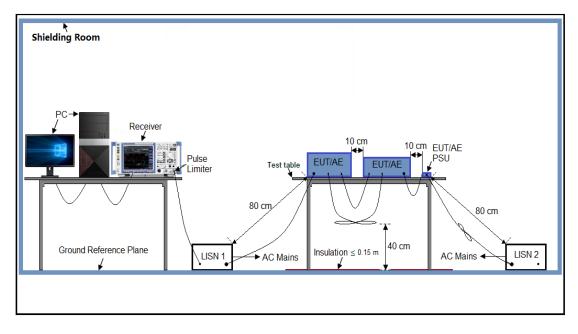
## 8.1 LIMITS OF LINE CONDUCTED EMISSION TEST

Framerou	Maximum RF Line Voltage					
Frequency	Q.P. (dBµV)	Average (dBµV)				
150kHz~500kHz	66-56	56-46				
500kHz~5MHz	56	46				
5MHz~30MHz	60	50				

Note: 1. The lower limit shall apply at the transition frequency.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

## 8.2 MEASUREMENT SETUP (BLOCK DIAGRAM OF CONFIGURATION)





#### 8.3 PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipment received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC 5V power from adapter which received AC120V/60Hz power from a LISN.
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

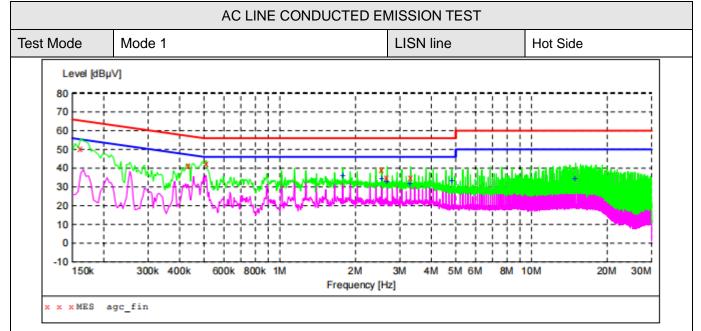
Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

#### 8.4 FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.



#### 8.5 MEASUREMENT RESULTS



#### MEASUREMENT RESULT: "agc fin"

2022/12/16 18 Frequency MHz	:10 Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.162000 0.434000 0.510000 2.546000 2.670000 3.306000	50.50 41.20 42.20 39.00 34.70 35.00	6.8 5.6 5.4 6.5 6.5 6.5	65 57 56 56 56	14.9 16.0 13.8 17.0 21.3 21.0	QP QP QP QP QP QP QP	L1 L1 L1 L1 L1 L1	GND GND GND GND GND GND

#### MEASUREMENT RESULT: "agc\_fin2"

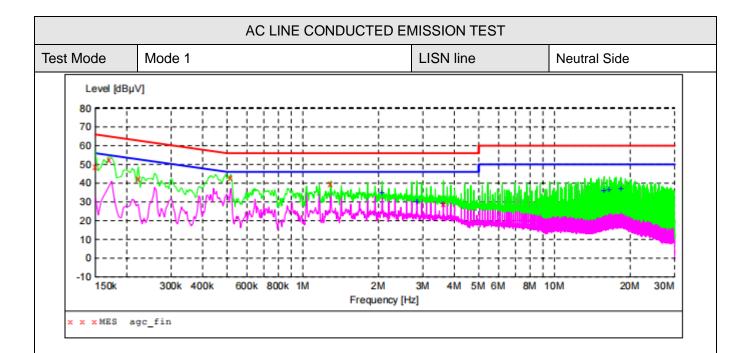
2022/12/16 18:09								
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE	
1.778000	35.80	6.3	46	10.2	AV	L1	GND	
2.546000	34.40	6.5	46	11.6	AV	L1	GND	
2.670000	32.50	6.5	46	13.5	AV	L1	GND	
3.306000	31.50	6.5	46	14.5	AV	L1	GND	
4.830000	33.10	6.6	46	12.9	AV	L1	GND	
14.966000	34.60	8.3	50	25.4	AV	L1	GND	

#### **RESULT: PASS**

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#### MEASUREMENT RESULT: "agc fin"

2022/12/16 18 Frequency MHz	l:13 Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000 0.170000 0.222000 0.518000 1.294000 3.618000	48.90 52.50 42.40 42.90 39.60 28.80	6.9 6.8 6.4 5.4 5.8 6.5	66 63 56 56	17.1 12.5 20.3 13.1 16.4 27.2	QP QP QP QP QP QP	N N N N N	GND GND GND GND GND GND

#### MEASUREMENT RESULT: "agc\_fin2"

2022/12/16 18	:14						
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
MHz	dBµV	dB	dBµV	dB			
2.066000	35.10	6.5	46	10.9	AV	N	GND
2.842000	29.90	6.5	46	16.1	AV	N	GND
3.618000	29.10	6.5	46	16.9	AV	N	GND
15.762000	35.70	8.4	50	14.3	AV	N	GND
16.538000	36.30	8.5	50	13.7	AV	N	GND
18.346000	36.90	8.7	50	13.1	AV	N	GND

#### **RESULT: PASS**

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## APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Refer to the Report No.: AGC05794221201AP01

# APPENDIX B: PHOTOGRAPHS OF TEST EUT

Refer to the Report No.: AGC05794221201AP02

-----END OF REPORT-----



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 Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.

3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.

4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.

5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.

6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.

7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.

8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.

9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.