

# TEST REPORT

**Report No.:** 8227EU010710W

**Applicant:** Zeroplus Technology Corporation

**Address:** 3F., No.121, Jian 8th Rd., Chung Ho District, New Taipei City, Taiwan

**Product Name:** Pocket Auto Catch ND

**Model No.:** ZPP006J

**Trademark:** BROOK

**Test Standard(s):** MIC Notice No.88 Appendix No.43  
Ordinance of MPT No.37, 1981:  
Article 2 paragraph 1 item (19)

**Date of Receipt:** Mar. 07, 2024

**Test Date:** Mar. 07, 2024 – Mar. 15, 2024

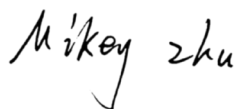
**Date of Issue:** Mar. 26, 2024

**ISSUED BY:**

SHENZHEN EU TESTING LABORATORY LIMITED



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Revision Record

Report Version	Issued Date	Description	Status
V0	Mar. 26, 2024	Original	Valid



## Table of Contents

<b>1</b>	<b>COVER PAGE.....</b>	<b>1</b>
<b>2</b>	<b>GENERAL INFORMATION .....</b>	<b>5</b>
2.1	APPLICANT INFORMATION.....	5
2.2	MANUFACTURER INFORMATION.....	5
2.3	FACTORY INFORMATION.....	5
2.4	GENERAL DESCRIPTION OF E.U.T.....	5
2.5	TECHNICAL INFORMATION OF E.U.T.....	6
2.6	CHANNEL LIST OF E.U.T. ....	6
<b>3</b>	<b>TEST SUMMARY .....</b>	<b>7</b>
3.1	TEST STANDARD .....	7
3.2	TEST VERDICT.....	7
3.3	TEST LABORATORY .....	7
<b>4</b>	<b>TEST CONFIGURATION .....</b>	<b>8</b>
4.1	TEST ENVIRONMENT .....	8
4.2	TEST EQUIPMENT .....	9
4.3	DESCRIPTION OF SUPPORT UNIT .....	9
4.4	MEASUREMENT UNCERTAINTY .....	10
<b>5</b>	<b>TEST ITEMS .....</b>	<b>11</b>
5.1	FREQUENCY TOLERANCE TEST .....	11
5.1.1	Test Requirement.....	11
5.1.2	Test Setup Diagram .....	11
5.1.3	Test Procedure.....	11
5.1.4	Test Deviation .....	11
5.1.5	EUT Operation during Test .....	11
5.1.6	Test Data .....	11
5.2	OCCUPIED BANDWIDTH AND SPREAD-SPECTRUM BANDWIDTH / FACTOR .....	12
5.2.1	Test Requirement.....	12
5.2.2	Test Setup Diagram .....	12
5.2.3	Test Procedure.....	12
5.2.4	Test Deviation .....	12
5.2.5	EUT Operation during Test .....	12
5.2.6	Test Data .....	12
5.3	ANTENNA POWER TEST .....	13
5.3.1	Test Requirement.....	13
5.3.2	Test Setup Diagram .....	13
5.3.3	Test Procedure.....	13
5.3.4	Test Deviation .....	13
5.3.5	EUT Operation during Test .....	13
5.3.6	Test Data .....	13
5.4	SPURIOUS EMISSIONS INTENSITY TEST.....	14
5.4.1	Test Requirement.....	14
5.4.2	Test Setup Diagram .....	14
5.4.3	Test Procedure.....	14
5.4.4	Test Deviation .....	14
5.4.5	EUT Operation during Test .....	14
5.4.6	Test Data .....	14
5.5	SECONDARY RADIATED EMISSIONS TEST .....	15
5.5.1	Test Requirement.....	15
5.5.2	Test Setup Diagram .....	15
5.5.3	Test Procedure.....	15

5.5.4	Test Deviation .....	15
5.5.5	EUT Operation during Test .....	15
5.5.6	Test Data .....	15
<b>5.6</b>	<b>INTERFERENCE PREVENTION FUNCTION .....</b>	<b>16</b>
5.6.1	Test Requirement.....	16
5.6.2	Test Setup Diagram .....	16
5.6.3	Test Procedure.....	16
5.6.4	Test Deviation .....	16
5.6.5	EUT Operation during Test .....	16
5.6.6	Test Data .....	16
<b>5.7</b>	<b>TRANSMISSION RADIATION ANGLE WIDTH (3dB BEAMWIDTH) MEASUREMENT .....</b>	<b>17</b>
5.7.1	Test Requirement.....	17
5.7.2	Test Setup Diagram .....	17
5.7.3	Test Procedure.....	17
5.7.4	Test Deviation .....	17
5.7.5	EUT Operation during Test .....	17
5.7.6	Test Data .....	17
<b>5.8</b>	<b>CONSTRUCTION PROTECTION CONFIRMATION METHOD .....</b>	<b>18</b>
<b>ANNEX A</b>	<b>TEST SETUP PHOTOS .....</b>	<b>19</b>
<b>ANNEX B</b>	<b>EXTERNAL PHOTOS .....</b>	<b>19</b>
<b>ANNEX C</b>	<b>INTERNAL PHOTOS .....</b>	<b>19</b>
<b>ANNEX D</b>	<b>TEST DATA .....</b>	<b>19</b>

## 2 General Information

### 2.1 Applicant Information

Applicant	Zeroplus Technology Corporation
Address	3F., No.121, Jian 8th Rd., Chung Ho District, New Taipei City, Taiwan

### 2.2 Manufacturer Information

Manufacturer	Zeroplus Technology Corporation
Address	3F., No.121, Jian 8th Rd., Chung Ho District, New Taipei City, Taiwan

### 2.3 Factory Information

Factory	Zeroplus Technology Corporation
Address	3F., No.121, Jian 8th Rd., Chung Ho District, New Taipei City, Taiwan

### 2.4 General Description of E.U.T.

Product Name	Pocket Auto Catch ND
Model No. Under Test	ZPP006J
List Model No.	N/A
Description of Model differentiation	N/A
Rating(s)	Input: 3VDC, 300mA, 0.9W Output: 3.3VDC, 1.03mA, 3.34mW
Product Type	<input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Fix Location
Test Sample No.	-1/1(Normal Sample)
Hardware Version	A-C23033-231108-V1.0
Software Version	ID1: ZP02H2R0 V1.0, ID2: ZP02H2S0 V1.0
Remark	For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

## 2.5 Technical Information of E.U.T.

Technology Used	Bluetooth (BLE)
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The requirement for the following technical information of the EUT was tested in this report:

Technology	<b>Bluetooth</b>	
Operation Mode	<input checked="" type="checkbox"/> BLE	
Modulation Type	GFSK	
Operating Frequency	2402-2480MHz	
Transfer Rate	1/2 Mbps	
Number of Channel	40	
Antenna Type	Module 1	Module 2
	PCB Antenna	PCB Antenna
Antenna Gain(Peak)	Module 1	Module 2
	-1.98 dBi	-1.98 dBi
Antenna Impedance	50Ω	
Rated output Power	Module 1	Module 2
	0.670 mW	0.640 mW

## 2.6 Channel List of E.U.T.

All channels were listed on the following table:

Channel Number	Freq. (MHz)	Channel Number	Freq. (MHz)	Channel Number	Freq. (MHz)	Channel Number	Freq. (MHz)
<b>00</b>	<b>2402</b>	10	2422	20	2442	30	2462
01	2404	11	2424	21	2444	31	2464
02	2406	12	2426	22	2446	32	2466
03	2408	13	2428	23	2448	33	2468
04	2410	14	2430	24	2450	34	2470
05	2412	15	2432	25	2452	35	2472
06	2414	16	2434	26	2454	36	2474
07	2416	17	2436	27	2456	37	2476
08	2418	18	2438	28	2458	38	2478
09	2420	<b>19</b>	<b>2440</b>	29	2460	<b>39</b>	<b>2480</b>

### 3 Test Summary

#### 3.1 Test Standard

The tests were performed according to following standards:

No.	Identity	Document Title
1	MIC Notice No.88 Appendix No.43 Ordinance of MPT No.37, 1981: Article 2 paragraph 1 item (19)	Low power data communications system in the 2.4GHz band

Remark:

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product maybe which result in lowering the emission should be checked to ensure compliance has been maintained.

#### 3.2 Test Verdict

No.	Description	Test Mode	Data Rate (Mbps)	Verdict	Remark
1	Frequency Tolerance	GFSK	1/2	Pass	--
2	Occupied Bandwidth and Spread-spectrum Bandwidth / Factor	GFSK	1/2	Pass	--
3	Antenna Power	GFSK	1/2	Pass	--
4	Spurious Emission Intensity	GFSK	1/2	Pass	--
5	Secondary Radiated Emission	GFSK	1/2	Pass	--
6	Spurious Emissions	GFSK	1/2	Pass	--
7	Interference Prevention Function	GFSK	1/2	Pass	--
8	Transmission Radiated Angle Width (3dB Beam Bandwidth)	GFSK	1/2	N/A	Note <sup>2</sup>
9	Carrier Sense Function	GFSK	1/2	N/A	Note <sup>3</sup>
10	Carrier Sense Function	GFSK	1/2	N/A	Note <sup>4</sup>

Note 1: The tests were performed according to the method of measurements prescribed in MIC Notice No.88 Appendix No.43.

Note 2: The test items are only applicable to devices that use directional antennas and have a gain greater than 2.14dBi.

Note 3: Not apply to this device, since EIRP does not require compensation through Antenna Power.

Note 4: Apply for 802.11n40 which the Occupied bandwidth within 26MHz-40MHz.

#### 3.3 Test Laboratory

Test Laboratory	Shenzhen EU Testing Laboratory Limited
Address	101, Building B1, Fuqiao Fourth Area, Qiaotou Community, Fuhai Subdistrict, Baoan District, Shenzhen, Guangdong, China

## 4 Test Configuration

### 4.1 Test Environment

During the measurement, the normal environmental conditions were within the listed ranges:

Relative Humidity	30% to 60%	
Atmospheric Pressure	86 kPa to 106 kPa	
Temperature	NT (Normal Temperature)	+15°C to +35°C
Working Voltage of the EUT	NV (Normal Voltage)	3.0 V
	LV (Low Voltage)	2.7 V
	HV (High Voltage)	3.3 V

#### Power Supply Voltage Fluctuation Test

Voltage Fluctuation Test	Normal Voltage	High Voltage +10% of Normal Voltage	Low Voltage -10% of Normal Voltage
Input To EUT	DC 3.0V	DC 2.7V	DC 3.3V
Output To RF Module	DC 3.3V	DC 3.3V	DC 3.3V
Voltage Variation (%)	--	0.00%	0.00%

Note:

Voltage Variation (%)=(Output high or Low Voltage - Output Normal Voltage)/ Output Normal Voltage\* 100%

For extreme voltage test, we have tested the relationship between the external power supply and RF IC power supply. Base on the test results, only the normal voltage was selected to perform all items.



## 4.2 Test Equipment

No.	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	EMI Test Receiver	Rohde & Schwarz	ESPI	EE-006	2025/01/08	1 Year
2	Bilog Broadband Antenna	SCHWARZBECK	VULB 9163	EE-007	2023/01/14	3 Year
3	Double Ridged Horn Antenna	A-INFOMW	LB-10180-NF	EE-008	2023/01/14	3 Year
4	Pre-amplifier	Agilent	8447D	EE-009	2025/01/08	1 Year
5	Pre-amplifier	Agilent	8449B	EE-010	2025/01/08	1 Year
6	MAX Spectrum Analysis	Agilent	N9020A	EE-011	2025/01/08	1 Year
7	MXG RF Vector Signal Generator	Agilent	N5182A	EE-012	2025/01/08	1 Year
8	Test Software	Ferrari Technology	EZ-EMC	EE-015	N.C.R	N.C.R
9	MIMO Power Measurement	TSTPASS	TSPS 2023R	EE-016	2024/05/16	1 Year
10	RF Test Software	TSTPASS	TS32893 V2.0	EE-017	N.C.R	N.C.R
11	Wideband Radio Communication Tester	ROHDE & SCHWARZ	CMW500	EE-402	2025/2/14	1 Year
12	MXG RF Analog Signal Generator	Agilent	N5181A	EE-406	2025/2/14	1 Year
13	Constant Temperature Humidity Chamber	Guangxin	GXP-401	ES-002	2024/07/30	1 Year

## 4.3 Description of Support Unit

No.	Title	Manufacturer	Model No.	Serial No.
--	--	--	--	--

#### 4.4 Measurement Uncertainty

Parameters	Uncertainty
Frequency Error / 99% Bandwidth	$(3.2 \times f \times 10^{-6})$ Hz
Antenna Power	1.82 dB
TX-RX Spurious Emissions	1.84 dB
Transmission Antenna Gain	5.36 dB
Temperature	0.8 °C
Humidity	4 %
DC / AC Power Source	0.04%

Noet: “f” is the nominal signal frequency in Hz.

Note: This uncertainty represents as expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

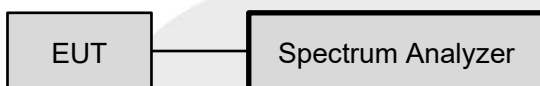
## 5 Test Items

### 5.1 Frequency Tolerance Test

#### 5.1.1 Test Requirement

Item	Limits
Frequency Tolerance	$\leq \pm 50$ ppm

#### 5.1.2 Test Setup Diagram



#### 5.1.3 Test Procedure

Span=2MHz  
 Sweep time=Auto  
 Detector mode=Positive peak  
 Indication mode=Max hold  
 EUT have transmitted modulation signal and fixed channelize. f is using the mark cursor to mark the peak frequency value,  $f_c$  is declaring of channel frequency. Then the frequency error formula is  $(f - f_c) / f_c \times 10^6$  ppm and the limit is less than +50 ppm.

#### 5.1.4 Test Deviation

There is no deviation with the original standard.

#### 5.1.5 EUT Operation during Test

The EUT was programmed to be in continuous transmit, carrier mode.

#### 5.1.6 Test Data

PASS.

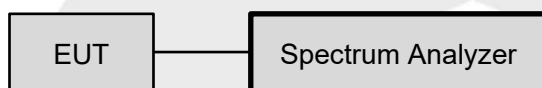
Please refer to Annex D for details.

## 5.2 Occupied Bandwidth and Spread-spectrum Bandwidth / Factor

### 5.2.1 Test Requirement

Item	Limits
Occupied Band Width	FHSS $\leq$ 83.5MHz; OFDM $\leq$ 40MHz, DSSS $\leq$ 26MHz; Others $\leq$ 26MHz
Spread-spectrum Bandwidth	$\geq$ 500 kHz (FHSS, DSSS)
Spread Factor	$\geq$ 5

### 5.2.2 Test Setup Diagram



### 5.2.3 Test Procedure

- Set the spectrum analyzer as follows:  
Center frequency: Test frequency  
Span: Approximately 2 to 3.5 times nominal bandwidth  
Resolution bandwidth: Approximately 3% or less nominal bandwidth  
Video bandwidth: equivalent to resolvable bandwidth  
Sweep time: auto  
Sweep mode: Continuous sweep  
Detection: Positive peak  
Trace mode: Maximum hold
- After repeating sweeps until the display shows steady data, store the values at all data points into the computer array variables.
- Convert the dB values at all data points to antilogarithm on the power dimension.
- Obtain sum total of the power at all data points, and store it as "total power".
- Accumulate the power at each data point sequentially upward from the lowest frequency and obtain the limit data point where the accumulated power becomes 0.5% (5% for spreading bandwidth) of the "total power". Then convert the limit data point into frequency and store it as "lower limit frequency"
- Accumulate the power at each data point sequentially downward from the highest frequency and obtain the limit data point where the accumulated power becomes 0.5% (5% for spreading bandwidth) of the "total power". Then convert the limit data point into frequency and store it as "upper limit frequency".
- Spread Spectrum Factor = Spread Spectrum Bandwidth / modulation rate of EUT.

### 5.2.4 Test Deviation

There is no deviation with the original standard.

### 5.2.5 EUT Operation during Test

The EUT was programmed to be in continuous transmit, channel-selected mode.

### 5.2.6 Test Data

PASS.

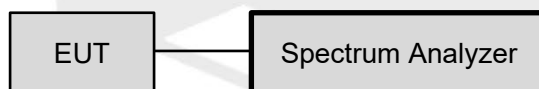
Please refer to Annex D for details.

### 5.3 Antenna Power Test

#### 5.3.1 Test Requirement

Item	Limits
Antenna Power Density	a) FH, FH+DS, or FH+OFDM form 2427 - 2470.75 MHz: $\leq 3$ mW/MHz b) DS but other than a) from 2400~2483.5 MHz: $\leq 10$ mW/MHz c) OFDM, but other than a): For OCB of 26MHz or less: $\leq 10$ mW/MHz For OCB of over 26 MHz to 40 MHz: $\leq 5$ mw/MHz d) Other than a), b) and c): $\leq 10$ mW
Antenna Power Error	+20% (Base on manufacturer declare antenna power density)
EIRP Power	6.91 dBm/MHz

#### 5.3.2 Test Setup Diagram



#### 5.3.3 Test Procedure

1. EUT turn to test frequency channel and keep continuous transmitting
2. Reading the output power from the Power meter as PEUT.
3. Turn the Signal generator to frequency channel the same as the EUT.
4. Turn the level of Signal generator, scan with the power meter until the power equal to PEUT, the level of Signal generator recorded as "p"
5. The antenna power of EUT is "P"
6. EIRP power="P"+antenna gain.

#### 5.3.4 Test Deviation

There is no deviation with the original standard.

#### 5.3.5 EUT Operation during Test

The EUT was programmed to be in continuous transmit, channel-selected mode.

#### 5.3.6 Test Data

PASS.

Please refer to Annex D for details.

## 5.4 Spurious Emissions Intensity Test

### 5.4.1 Test Requirement

Item	Limits
TX Spurious Emission	$\leq 2.5\mu\text{W}$ ( $2387\text{MHz} > f$ ; $2496.5\text{MHz} < f$ )
	$\leq 25\mu\text{W}$ ( $2387\text{MHz} \leq f < 2400\text{MHz}$ ) and ( $2483.5\text{MHz} < f \leq 2496.5\text{MHz}$ )

### 5.4.2 Test Setup Diagram



### 5.4.3 Test Procedure

Spectrum Parameter	Setting
Attenuation	Auto
RB	30-1000 MHz: 100KHz/100KHz
VB	Above 1GHz: 1 MHz/1 MHz
Detector	Peak
Trace	Max Hold
Sweep	Auto

1. The EUT is placed in transmit mode at maximum power/modulation at a fixed channel.
2. Setting of SA is following as: RBW/VBW = 1MHz; / AT: 10dB / Ref: 0dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
3. Setting of SA is following as 30 MHz and stop frequency 2387 MHz Then to mark peak reading value + cable loss shall be less than 2.5  $\mu\text{W}$
4. SA adjusted to start frequency 2387 MHz and stop frequency 2400 MHz. Then to mark peak reading value + cable loss shall be less than 25  $\mu\text{W}$ .
5. SA adjusted to start frequency 2483.5 MHz and stop frequency 2496.5 MHz Then to mark peak reading value + cable loss shall be less than 25  $\mu\text{W}$
6. SA adjusted to start frequency 2496.5 MHz and stop frequency 12500 MHz Then to mark peak reading value + cable loss shall be less than 2.5  $\mu\text{W}$
7. Measure side band spurious as follows: For 2.4 GHz band: 2374 MHz~2400 MHz and 2483.5 MHz~2509.5 MHz RBW = VBW = 30 kHz, Result\_Value = Measured\_Value + 15.2 [dBm]
8. If the Result\_Value is over the requirement, take total sum of 1MHz band centered at the spur frequency like ACLP measurement as Result\_Value.

### 5.4.4 Test Deviation

There is no deviation with the original standard.

### 5.4.5 EUT Operation during Test

The EUT was programmed to be in continuous transmit, channel-selected mode.

### 5.4.6 Test Data

PASS.

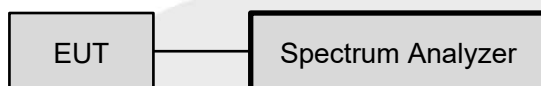
Please refer to Annex D for details.

## 5.5 Secondary Radiated Emissions Test

### 5.5.1 Test Requirement

Item	Limits
RX Spurious Emission	$\leq 4\text{nW}$ ( $f < 1\text{GHz}$ )
	$\leq 20\text{nW}$ ( $1\text{GHz} \leq f$ )

### 5.5.2 Test Setup Diagram



### 5.5.3 Test Procedure

Spectrum Parameter	Setting
Attenuation	Auto
RB	30-1000 MHz: 100KHz/100KHz
VB	Above 1GHz: 1 MHz/1 MHz
Detector	Peak
Trace	Max Hold
Sweep	Auto

1. The EUT is placed in Rx mode and set to a fixed channel.
2. Setting of SA is following as RB / VB: 100 kHz (below 1GHz emissions) / 1 MHz (above 1GHz emissions) / AT:10 dB / Ref: 0dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
3. SA set RB: 100 kHz and VB: 100 kHz. Then adjust to start frequency 30 MHz and stop frequency 1000 MHz. Search to mark peak reading value + cable loss shall be less than 4 nW
4. SA set RB: 1 MHz and VB: 1 MHz. Then adjust to start frequency 1000 MHz and stop frequency 12500 MHz. Search to mark peak reading value + cable loss shall be less than 20 nW
5. If power level of lower emissions are more than 1/10 of limit (0.4nW for  $f < 1\text{GHz}$ , 2 nW for  $f \geq 1\text{GHz}$ ), all those are to be indicated in the 2nd and 3rd lines. If others are 1/10 or less more of the limit, no necessary to be indicated

### 5.5.4 Test Deviation

There is no deviation with the original standard.

### 5.5.5 EUT Operation during Test

The EUT was programmed to be in continuous transmit, channel-selected mode.

### 5.5.6 Test Data

PASS.

Please refer to Annex D for details.

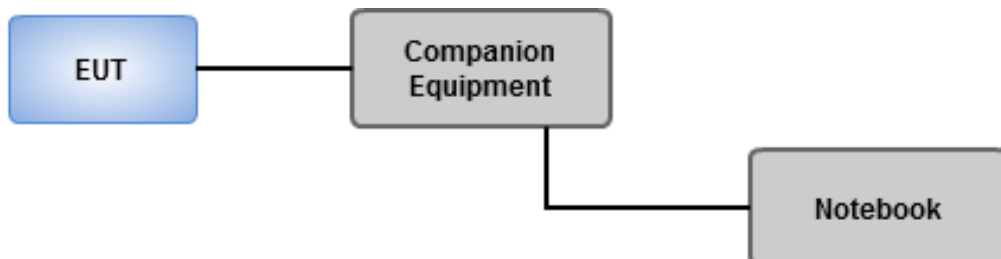


## 5.6 Interference Prevention Function

### 5.6.1 Test Requirement

Item	Limits
Identification	≥ 48 bits

### 5.6.2 Test Setup Diagram



### 5.6.3 Test Procedure

1. In the case that the EUT has the function of automatically transmitting the identification code:
  - a. Transmit the predetermined identification codes form EUT.
  - b. Check the transmitted identification codes with the demodulator.
- 2 .In the case of receiving the identification code:
  - a. Transmit the predetermined identification codes form the counterpart.
  - b. Check if communication is normal.
  - c. Transmit the signals other than predetermined ID codes form the counterpart.
  - d. check if the EUT stops the transmission, or if it displays that identification codes are different from the predetermined ones.

### 5.6.4 Test Deviation

There is no deviation with the original standard.

### 5.6.5 EUT Operation during Test

The EUT was programmed to be in continuous transmit, channel-selected mode.

### 5.6.6 Test Data

PASS.

Mode	ID Code	Test Results
BLE	45:B2:37:F4:15:A1	Pass

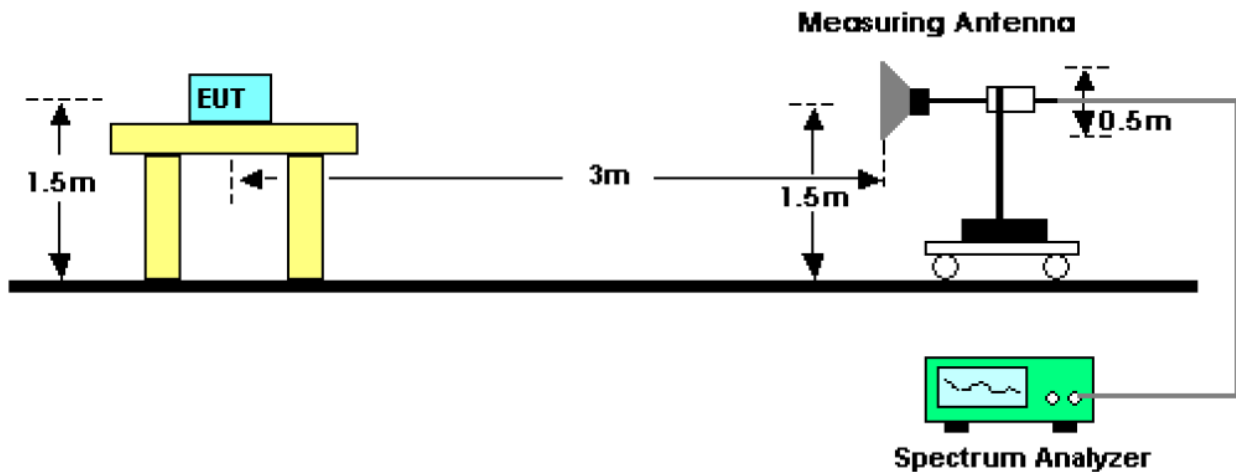


## 5.7 Transmission Radiation Angle Width (3dB Beamwidth) Measurement

### 5.7.1 Test Requirement

Item	Limits
3dB antenna beam width	$360/A$ (If $A < 1$ ; then $A = 1$ ) $A = \{ \text{EIRP Power [mW]} / 16.36 \text{ for DS, OFDM} \}$ or $A = \{ \text{EIRP Power [mW]} / 4.9 \text{ for FH} \}$
Note: This test item will not be applied to the transmission antenna which has a gain of 2.14dBi or less.	

### 5.7.2 Test Setup Diagram



### 5.7.3 Test Procedure

1. Set EUT and measuring antenna at the same height and roughly facing each other.
2. Set spectrum analyzer with RBW=1 MHz, VBW=1 KHz, Y scale=5 dB, Detector=Peak, Trace mode=Max Hold, and tune reference level to observe receiving signal position.
3. Rotate directions of the EUT horizontally and vertically to find the maximum receiving power.
4. Move the measuring antenna height up and down within  $\pm 50\text{cm}$  of EUT height and swing it to find the maximum output of measuring antenna. The output level at the spectrum analyzer is read as "E"
5. Calculate permitted radiation angle in horizontal and vertical using EIRP measured in another test method.
6. Calculate 3dB antenna beam width by the formula below  $360/A$  (If  $A < 1$ ; then  $A = 1$ ).  $A = \{ \text{EIRP Power [mW]} / 16.36 \text{ for DS, OFDM} \}$  or  $A = \{ \text{EIRP Power [mW]} / 4.9 \text{ for FH} \}$

### 5.7.4 Test Deviation

There is no deviation with the original standard.

### 5.7.5 EUT Operation during Test

The EUT was programmed to be in continuous transmit, channel-selected mode.

### 5.7.6 Test Data

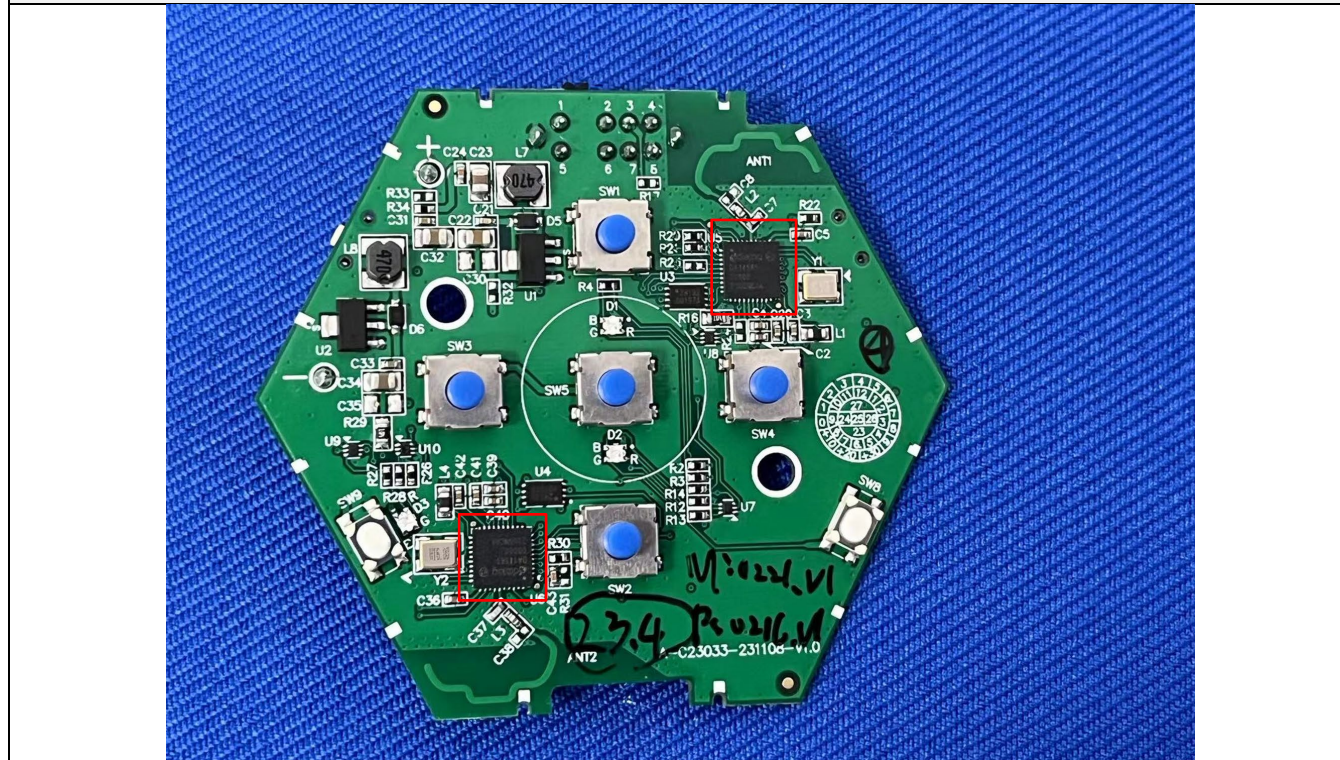
Note: Because the EIRP is less than 12.14 dBm, this item is not applicable.

## 5.8 Construction Protection Confirmation Method

The RF and modulation portions are protected against illegal modification as following method:

Protected Method	Description
Structure protection	The terminal number is 80, terminal pitch is 1mm. it can't be easily opened and modified.

### Reference Photo



## **ANNEX A TEST SETUP PHOTOS**

Please refer to the document “8227EU010710W-AA.PDF”

## **ANNEX B EXTERNAL PHOTOS**

Please refer to the document “8227EU010710W-AB.PDF”

## **ANNEX C INTERNAL PHOTOS**

Please refer to the document “8227EU010710W-AC.PDF”

## **ANNEX D TEST DATA**

Please refer to the document “8227EU010710W-AD.PDF”

--- End of Report ---