

FCC TEST REPORT

FCC ID : OU4-QC101600

Applicant : **Xanboo Inc.**
400 Columbus Ave. Valhalla, New York, United States.

Equipment Under Test (EUT) :

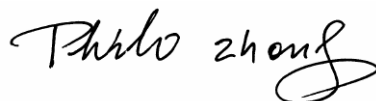
Product description : Zigbee UWS Furniture Leg Sensor

Model No. : QC101600

Standards : FCC 15 Paragraph 15.249

Date of Test : Mar 6, 2008

Test Engineer : **Tiger Su**

Reviewed By : 

PERPARED BY:

Waltek Services (Shenzhen) Co., Ltd.

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3 Test Summary

Test	Test Requirement	Test Method	Class / Severity	Result
Radiated Emission (30MHz to 25GHz)	FCC PART 15: 2003	ANSI C63.4: 2003	Class B	PASS
Conducted Emission (150KHz to 30MHz)	FCC PART 15: 2003	ANSI C63.4: 2003	Class B	PASS

4 General Information

4.1 Client Information

Applicant: **Xanboo Inc.**
Address of Applicant: 400 Columbus Ave. Valhalla, New York, United States

Manufacturer: RDI Technology (Shenzhen) Co., Ltd.
Address: Building C1 Xingtang Industrial Park, East Baishixia, Fuyong, Baoan, Shenzhen, P.R.C.

4.2 General Description of E.U.T.

Product description: Zigbee UWS Furnitre Leg Sensor
Model No.: QC101600

4.3 Details of E.U.T.

Power Supply: DC 3V Battery

4.4 Description of Support Units

The EUT has been tested as an independent unit.

4.5 Standards Applicable for Testing

The customer requested FCC tests for a Zigbee UWS Furnitre Leg Sensor. The standards used were FCC 15 Paragraph 15.249, Paragraph 15.207, Paragraph 15.209, Paragraph 15.31, Paragraph 15.33, Paragraph 15.35.

4.6 Test Facility

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

- **FCC – Registration No.: 759397**

Solid Industrial (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. Registration 759397, December 28, 2006.

4.7 Test Location

All Emissions tests were performed at:-

Solid Industrial (Shenzhen) Co., Ltd. at 333 Bulong Highway Buji Longgang, Shenzhen, Guangdong, China.

5 Equipment Used during Test

Equipment	Brand Name	Model	Cal. Int Months	Last Cal. Date
3m Anechoic chamber				
EMC Analyzer	Agilent	E7402A	12	2007-08
EMI Test Receiver	R&S	ESS	12	2007-08
Pre Amplifier	Anritsu	MH648A	12	2007-08
Bilog Antenna	SCHAFFNER	CBL6111C	12	2007-08
Loop Antenna	R&S	6108	12	2007-08
Horn Antenna	ETS.LINDGERN	GH14-H052	12	2007-08
AM/FM Stereo Signal Generator	Panasonic	VP-8122A	12	2007-08
Signal Generator	R&S	SMG	12	2007-08
RF Selector	TOYO	NS4901A	-	-
Turn Disc	HD	DS4150S	-	-
Antenna Mast	HD	MA2400	-	-
EMI Shielded Room				
Spectrum analyzer	ADVANTEST	R3261C	12	2007-08
EMI Test Receiver	R&S	ESS	12	2007-08
Pre Amplifier	Anritsu	MH648A	12	2007-08
LISN	Kyoritsu	KNW-403D	12	2007-08
Absorbing Clamp	R&S	MDS-21	12	2007-08
Distortion Meter	MEGURO	MAK-6578A	12	2007-08
AM/FM Stereo Signal Generator	Panasonic	VP-8122A	12	2007-08
Oscilloscope	LEADER	LS1020	12	2007-08
Function Generator	National	VP-7422A	12	2007-08
Signal Generator	R&S	SMG	12	2007-08
RF Selector	TOYO	NS4000	-	-
Remote Controller	TOYO	MAC	-	-

6 Conducted Emission Test

Product Name: Zigbee UWS Furnitre Leg Sensor
Test Requirement: FCC Part15 Paragraph 15.207
Test Method: Based on FCC Part15 Paragraph 15.207
Test Date: Mar 6, 2008
Frequency Range: 150 kHz to 30MHz
Class: Class B
Detector: Peak for pre-scan (9 kHz Resolution Bandwidth)
Quasi-Peak & Average if maximised peak within 6dB of
Average Limit

6.1 Test Equipment

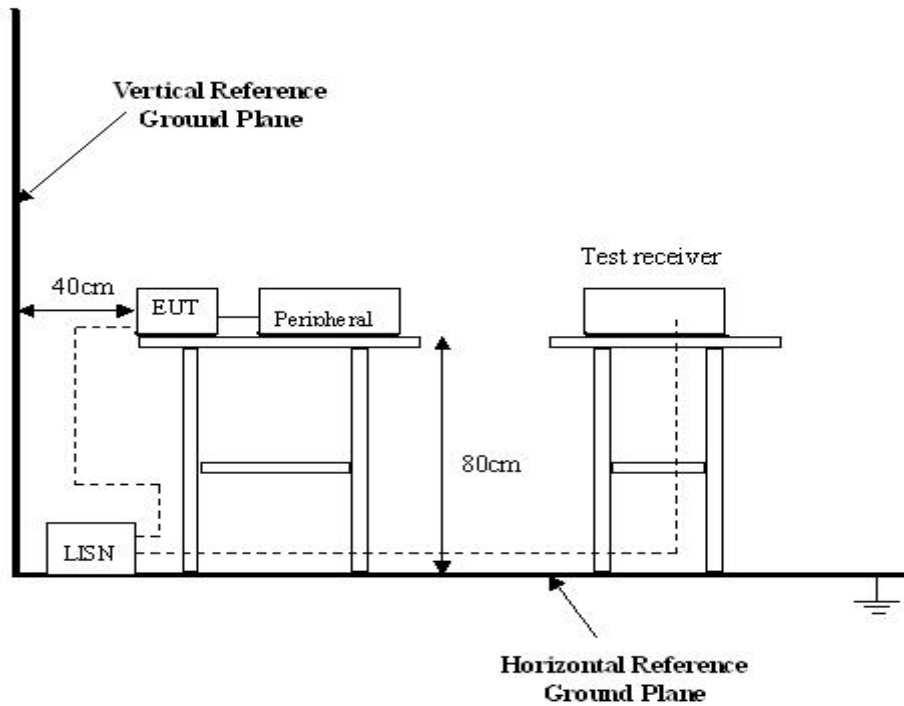
Please refer to Section 5 this report.

6.2 Test Procedure

1. The EUT was tested according to ANSI C63.4: 2003. The frequency spectrum from 150kHz to 30MHz was investigated.
2. The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

6.3 Conducted Test Setup

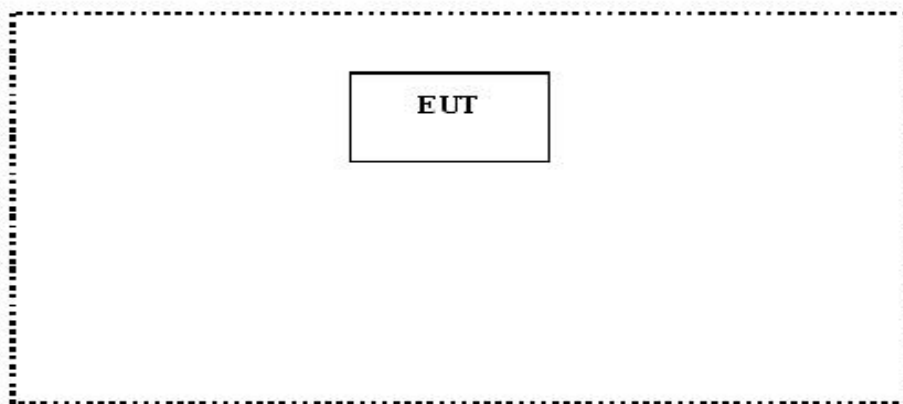
The conducted emission tests were performed using the setup accordance with the ANSI C63.4:2003, The specification used in this report was the FCC Part15 Paragraph 15.207 limits.



6.4 EUT Operating Condition

Operating condition is according to ANSI C63.4: 2003.

- A. Setup the EUT and simulators as shown on follow.
- B. Enable RF signal and confirm EUT active.
- C. Modulate output capacity of EUT up to specification.



6.5 Conducted Emission Limits

66-56 dB μ V/m between 0.15MHz & 0.5MHz

56 dB μ V/m between 0.5MHz & 5MHz

60 dB μ V/m between 5MHz & 30MHz

Note: In the above limits, the tighter limit applies at the band edges.
Owing to the DC operation of EUT, this test is not performed.

7 Radiation Emission Test

Product Name:	Zigbee UWS Furnitre Leg Sensor
Test Requirement:	FCC Part15 Paragraph 15.249
Test Method:	Based on FCC Part15 Paragraph 15.31 and Paragraph 15.33
Test Date:	Mar 6, 2008
Frequency Range:	30MHz to 25GHz
Measurement Distance:	3m
Detector:	Peak for pre-scan (120kHz resolution bandwidth) Quasi-Peak if maximised peak within 6dB of limit

7.1 Test Equipment

Please refer to Section 5 this report.

7.2 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in the field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase centre variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

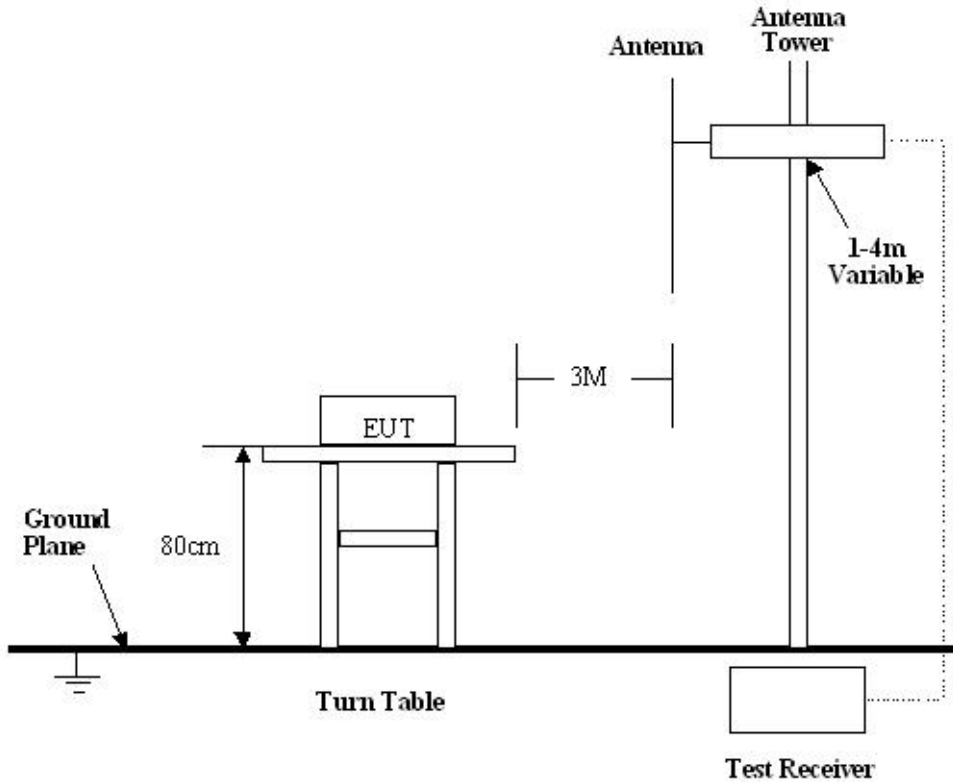
Based on ANSI C63.4: 2003, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement at Solid EMC Lab is ± 4.0 dB.

7.3 Test Procedure

1. Maximizing procedure was performed on the six (6) highest emissions to ensure EUT is compliant with all installation combinations.
2. All data was recorded in the peak detection mode.
3. The EUT was under normal mode during the final qualification test and the configuration was used to represent the worst case results.
4. According to the FCC Part 15 Paragraph 15.203, 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 to the intentional radiator shall be considered sufficient to comply with the provisions of this section. This product has a permanent antenna, fulfill the requirement of this section.

7.4 Radiated Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.4: 2003, The specification used in this report was the FCC Part15 Paragraph 15.249 and Paragraph 15.209 limits.



7.5 Spectrum Analyzer Setup

According to FCC Part15 Paragraph 15.249 Rules, the system was tested to 25000 MHz.

- Start Frequency..... 30 MHz
- Stop Frequency..... 25000 MHz
- Sweep Speed Auto
- IF Bandwidth..... 100 kHz
- Video Bandwidth..... 1 MHz
- Quasi-Peak Adapter Bandwidth 120 kHz
- Quasi-Peak Adapter Mode Normal
- Resolution Bandwidth 1MHz

7.6 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of $-7\text{dB}\mu\text{V}$ means the emission is $7\text{dB}\mu\text{V}$ below the maximum limit for Class B. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{Class B Limit}$$

7.7 Summary of Test Results

According to the data in section 7.10, the EUT complied with the FCC Part15 Paragraph 15.249 standards.

7.8 EUT Operating Condition

Same as section 6.4 of this report.

7.9 Radiated Emissions Limit

A. FCC Part 15 subpart C Paragraph 15.249 Limit

Fundamental Frequency	Field Strength of Fundamental		Field Strength of Harmonics	
	mV/m	dBuV/m	uV/m	dBuV/m
902-928MHz	50	94	500	54
2400-2483.5 MHz	50	94	500	54
5725-5875 MHz	50	94	500	54
24.0-24.25GHz	250	108	2500	68

- Note:**
- (1) $RF\ Voltage(dBuV) = 20 \log RF\ Voltage(uV)$
 - (2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
 - (3) The emission limit in this paragraph is based on measurement instrumentation employing an average detector. Measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.
 - (4) Above 1GHz, do a Peak and average measurements for all emissions, Limit for peak is 94dBuV/m, According to Part 15.35(b) and average is 54BuV/m.

B. Frequencies in restricted band are complied to limit on Paragraph 15.209

Frequency(MHZ)	Distance(m)	Field strength(dBuV/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

- Note:**
- (1) $RF\ Voltage(dBuV) = 20 \log RF\ Voltage(uV)$
 - (2) In the Above Table, the tighter limit applies at the band edges.
 - (3) Distance refers to the distance in meters between the measuring instrument antenna.

7.10 Radiated Emissions Test Result

Formula of conversion factors: the field strength at 3m was established by adding
 The meter reading of the spectrum analyzer (which is set to read in units of dBuV)
 To the antenna correction factor supplied by the antenna manufacturer. The antenna
 Correction factors are stated in terms of dB. The gain of the pressletor was accounted
 For in the spectrum analyser meter reading.

Example:

$$\text{Freq(MHz)} \quad \text{Meter Reading} + \text{ACF} = \text{FS}$$

$$33 \quad 20\text{dBuV} + 10.36\text{dB} = 30.36\text{dBuV/m @3m}$$

Radiated Emission Test Data

Test Voltage: 120VAC
 Test Mode: TX On
 Temperature: 24 °C
 Humidity: 52%RH
 Test Result: PASS

Remarks: 30-1000MHz radiation test no significant emissions above the equipment noise floor were detected.

Frequency(MHz)	Detector	Antenna Polarization	Emission Level (dBuV/m)	FCC 15 Subpart C Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Turntable Angle (°)
Low frequency							
2405.0	AV	Vertical	80.33	94.00	13.67	1.5	120
4810.0	AV	Vertical	43.38	54.00	10.62	1.5	60
7215.0	AV	Vertical	44.25	54.00	9.75	1.8	45
9620.0	AV	Vertical	44.73	54.00	9.27	1.0	90
12025.0	AV	Vertical	45.64	54.00	8.36	1.5	60
14430.0	AV	Vertical	45.89	54.00	8.11	1.2	100
16835.0	AV	Vertical	46.12	54.00	7.88	1.8	120
19240.0	AV	Vertical	46.73	54.00	7.27	1.2	60
21645.0	AV	Vertical	46.88	54.00	7.12	1.5	90
24050.0	AV	Vertical	47.21	54.00	6.79	1.0	120
2405.0	AV	Horizontal	79.26	94.00	14.74	1.5	270
4810.0	AV	Horizontal	43.11	54.00	10.89	1.6	180
7215.0	AV	Horizontal	43.65	54.00	10.38	1.5	120
9620.0	AV	Horizontal	44.27	54.00	9.73	1.6	200
12025.0	AV	Horizontal	45.55	54.00	8.45	1.5	100
14430.0	AV	Horizontal	45.71	54.00	8.29	1.2	270

16835.0	AV	Horizontal	45.88	54.00	8.12	1.8	180
19240.0	AV	Horizontal	46.71	54.00	7.29	1.0	90
21645.0	AV	Horizontal	46.82	54.00	7.18	1.5	60
24050.0	AV	Horizontal	46.98	54.00	7.02	1.2	100
2405.0	PK	Vertical	87.37	114.00	26.63	1.5	45
4810.0	PK	Vertical	48.38	74.00	25.62	1.5	120
7215.0	PK	Vertical	50.17	74.00	23.83	1.8	60
9620.0	PK	Vertical	50.65	74.00	23.35	1.0	270
12025.0	PK	Vertical	51.15	74.00	22.85	1.2	180
14430.0	PK	Vertical	51.77	74.00	22.23	1.5	60
16835.0	PK	Vertical	52.24	74.00	21.76	1.8	100
19240.0	PK	Vertical	52.66	74.00	21.34	1.2	120
21645.0	PK	Vertical	53.88	74.00	20.12	1.8	100
24050.0	PK	Vertical	53.94	74.00	20.06	1.0	90
2405.0	PK	Horizontal	88.14	114.00	25.86	1.5	120
4810.0	PK	Horizontal	47.22	74.00	26.78	1.6	180
7215.0	PK	Horizontal	48.65	74.00	25.35	1.5	120
9620.0	PK	Horizontal	49.33	74.00	24.67	1.6	90
12025.0	PK	Horizontal	50.26	74.00	23.74	1.8	180
14430.0	PK	Horizontal	50.83	74.00	23.17	1.2	120
16835.0	PK	Horizontal	51.44	74.00	22.56	1.5	100
19240.0	PK	Horizontal	52.45	74.00	21.55	1.0	45
21645.0	PK	Horizontal	52.78	74.00	21.22	1.5	60
24050.0	PK	Horizontal	53.17	74.00	20.83	1.0	90
Middle frequency							
2440.00	AV	Vertical	82.25	94.00	11.75	1.5	60
4880.00	AV	Vertical	43.44	54.00	10.56	1.5	45
7320.00	AV	Vertical	44.37	54.00	9.63	1.6	90
9760.00	AV	Vertical	44.69	54.00	9.31	1.5	180
12200.00	AV	Vertical	45.21	54.00	8.79	1.2	120
14640.00	AV	Vertical	45.68	54.00	8.32	1.0	100
17080.00	AV	Vertical	46.11	54.00	7.89	1.5	90
19520.00	AV	Vertical	46.23	54.00	7.77	1.8	45
21960.00	AV	Vertical	45.31	54.00	8.69	1.2	60
24400.00	AV	Vertical	46.72	54.00	7.28	1.6	120
2440.00	AV	Horizontal	81.34	94.00	12.66	1.5	60
4880.00	AV	Horizontal	43.22	54.00	10.78	1.5	180

7320.00	AV	Horizontal	44.25	54.00	9.75	1.8	120
9760.00	AV	Horizontal	44.58	54.00	9.42	1.2	90
12200.00	AV	Horizontal	44.88	54.00	9.12	1.5	60
14640.00	AV	Horizontal	45.36	54.00	8.64	1.0	100
17080.00	AV	Horizontal	45.75	54.00	8.25	1.5	90
19520.00	AV	Horizontal	45.18	54.00	8.82	1.8	120
21960.00	AV	Horizontal	45.22	54.00	8.78	1.5	180
24400.00	AV	Horizontal	46.47	54.00	7.53	1.8	270
2440.00	PK	Vertical	86.26	114.00	27.74	1.5	90
4880.00	PK	Vertical	48.11	74.00	25.89	1.5	60
7320.00	PK	Vertical	48.48	74.00	25.52	1.5	120
9760.00	PK	Vertical	49.59	74.00	24.41	1.2	270
12200.00	PK	Vertical	50.17	74.00	23.83	1.8	100
14640.00	PK	Vertical	50.62	74.00	23.38	1.5	180
17080.00	PK	Vertical	50.89	74.00	23.11	1.2	90
19520.00	PK	Vertical	51.88	74.00	22.12	1.8	45
21960.00	PK	Vertical	52.62	74.00	21.38	1.2	100
24400.00	PK	Vertical	52.88	74.00	21.12	1.0	90
2440.00	PK	Horizontal	87.76	114.00	26.24	1.5	180
4880.00	PK	Horizontal	48.06	74.00	25.94	1.8	90
7320.00	PK	Horizontal	48.26	74.00	25.74	1.5	120
9760.00	PK	Horizontal	49.22	74.00	24.78	1.5	100
12200.00	PK	Horizontal	49.43	74.00	24.57	1.8	45
14640.00	PK	Horizontal	50.37	74.00	23.63	1.5	90
17080.00	PK	Horizontal	50.46	74.00	23.54	1.5	180
19520.00	PK	Horizontal	51.73	74.00	22.27	1.6	120
21960.00	PK	Horizontal	52.52	74.00	21.48	1.2	270
24400.00	PK	Horizontal	52.64	74.00	21.36	1.0	180
High frequency							
2480.00	AV	Vertical	82.64	94.00	11.36	1.5	120
4960.00	AV	Vertical	47.71	54.00	6.29	1.5	90
7440.00	AV	Vertical	48.26	54.00	5.74	1.5	45
9920.00	AV	Vertical	48.77	54.00	5.23	1.5	100
12400.00	AV	Vertical	49.51	54.00	4.49	1.2	180
14880.00	AV	Vertical	49.68	54.00	4.32	1.6	120
17360.00	AV	Vertical	50.13	54.00	3.87	1.8	45
19840.00	AV	Vertical	51.77	54.00	2.23	1.2	60

22320.00	AV	Vertical	51.68	54.00	2.32	1.5	90
24800.00	AV	Vertical	51.89	54.00	2.11	1.8	100
2480.00	AV	Horizontal	81.66	94.00	12.34	1.5	180
4960.00	AV	Horizontal	45.52	54.00	8.48	1.5	60
7440.00	AV	Horizontal	47.11	54.00	6.89	1.5	120
9920.00	AV	Horizontal	48.52	54.00	5.48	1.8	270
12400.00	AV	Horizontal	48.83	54.00	5.17	1.2	180
14880.00	AV	Horizontal	49.62	54.00	4.38	1.6	90
17360.00	AV	Horizontal	49.89	54.00	4.11	1.8	120
19840.00	AV	Horizontal	50.11	54.00	3.89	1.5	100
22320.00	AV	Horizontal	51.26	54.00	2.74	1.2	45
24800.00	AV	Horizontal	52.14	54.00	1.86	1.6	90
2480.00	PK	Vertical	87.82	114.00	26.18	1.5	180
4960.00	PK	Vertical	50.51	74.00	23.49	1.5	270
7440.00	PK	Vertical	51.22	74.00	22.78	1.5	45
9920.00	PK	Vertical	53.36	74.00	20.64	1.2	90
12400.00	PK	Vertical	53.48	74.00	20.52	1.6	180
14880.00	PK	Vertical	54.26	74.00	19.74	1.8	60
17360.00	PK	Vertical	54.46	74.00	19.54	1.5	90
19840.00	PK	Vertical	54.77	74.00	19.23	1.2	180
22320.00	PK	Vertical	55.51	74.00	18.49	1.0	270
24800.00	PK	Vertical	55.89	74.00	18.11	1.2	90
2480.00	PK	Horizontal	86.89	114.00	27.11	1.5	60
4960.00	PK	Horizontal	50.42	74.00	23.58	1.5	120
7440.00	PK	Horizontal	51.11	74.00	22.89	1.5	180
9920.00	PK	Horizontal	52.25	74.00	21.75	1.2	90
12400.00	PK	Horizontal	53.16	74.00	20.84	1.0	270
14880.00	PK	Horizontal	54.22	74.00	19.78	1.2	120
17360.00	PK	Horizontal	54.38	74.00	19.62	1.5	90
19840.00	PK	Horizontal	54.55	74.00	19.45	1.8	60
22320.00	PK	Horizontal	54.42	74.00	19.58	1.3	180
24800.00	PK	Horizontal	55.72	74.00	18.28	1.6	100

Note: Above 1GHz,do a Peak and average measurements for all emissions,Limit for peak is 94dBuV/m,According to Part15.35(b) and average is 54BuvV/m.

8 Band Edge

8.1 Test Equipment

Please refer to Section 5 this report.

8.2 Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below:



2. The bandwidth of the fundamental frequency was measure by spectrum analyser with 100kHz RBW and 100kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power 20dB.

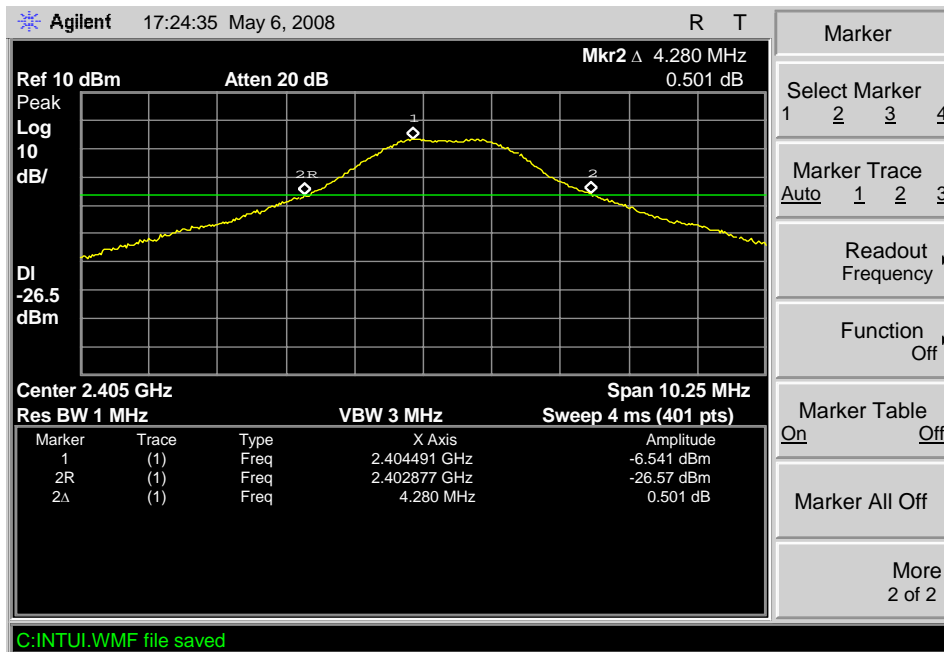
8.3 Band Edge

Requirements: FCC 15.249(d), the emission power at the START and STOP frequencies shall be at least 50dB below the level of the fundamental or to the general radiated emission limits in FCC 15.209.

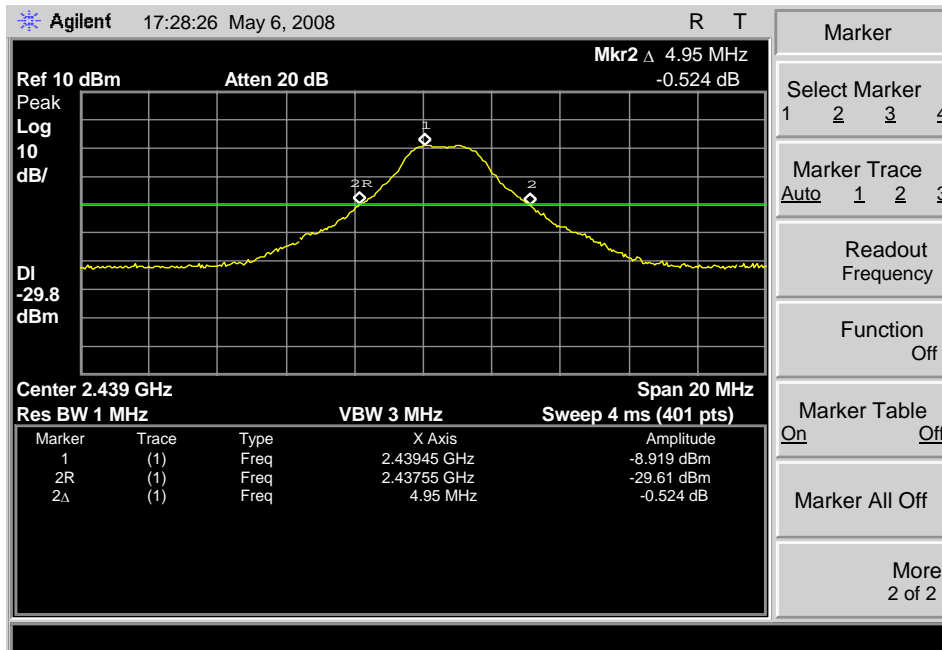
8.4 Band Edge Test Result

Product Name: Zigbee UWS Furnitre Leg Sensor
 Test Item: Band Edge Test
 Test Voltage: 120VAC
 Test Mode: TX On
 Temperature: 24 °C
 Humidity: 52%RH

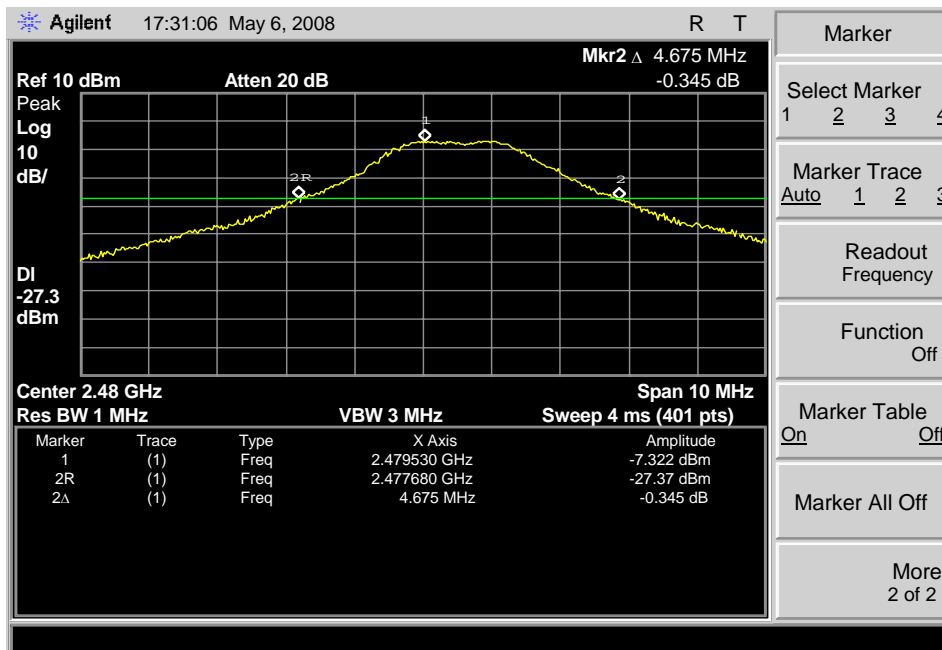
2405MHZ



2440MHZ



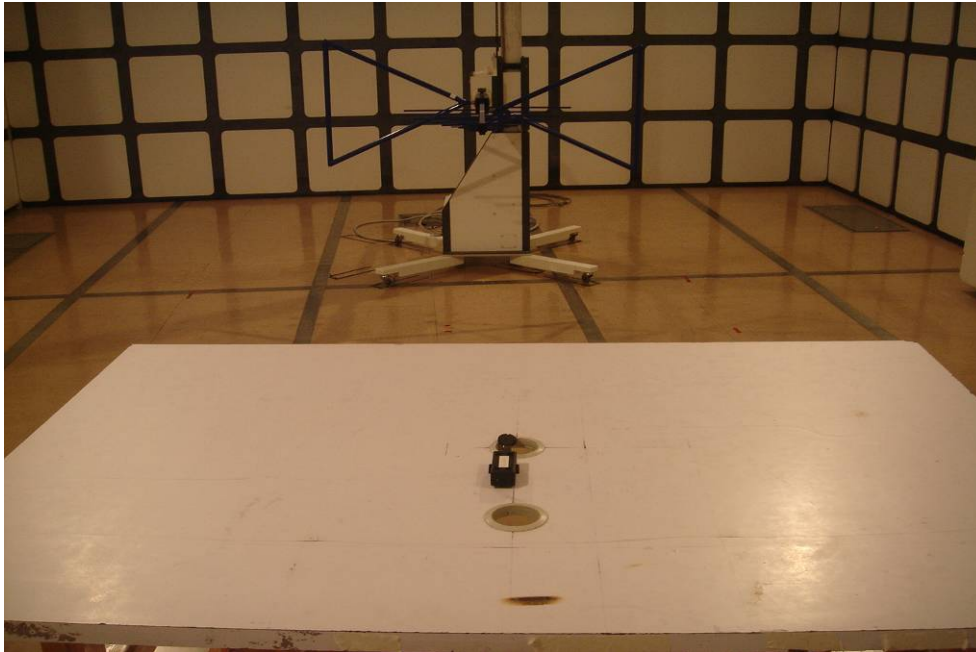
2480MHZ



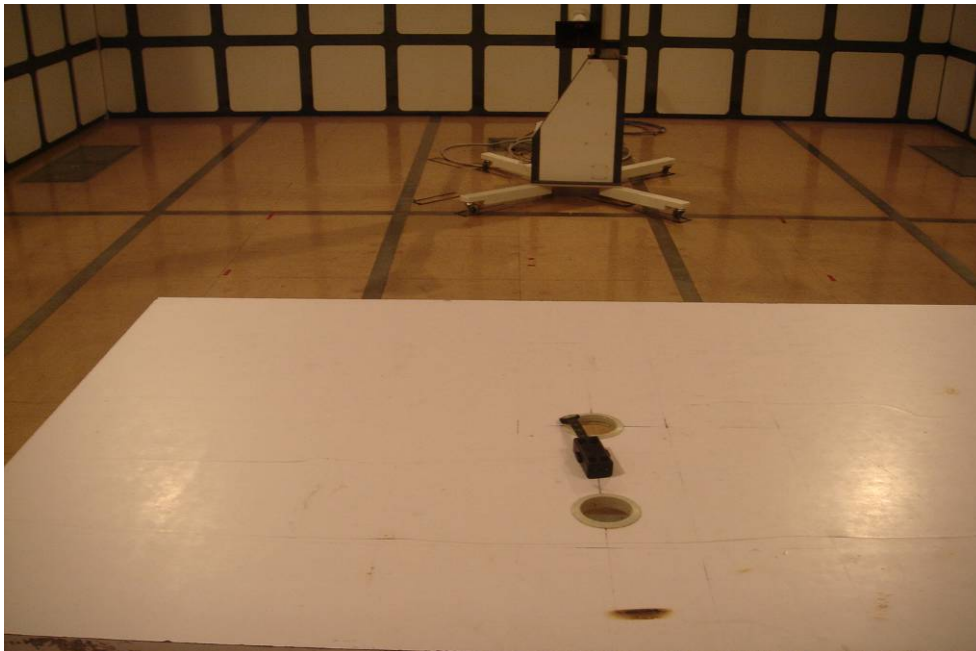
Note: (1) The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.249.

9 Photographs of Testing

9.1 Radiation Emission Test View For 30MHz-1000MHz



9.2 Radiation Emission Test View For 1GHz-25GHz



10 Photographs - Constructional Details

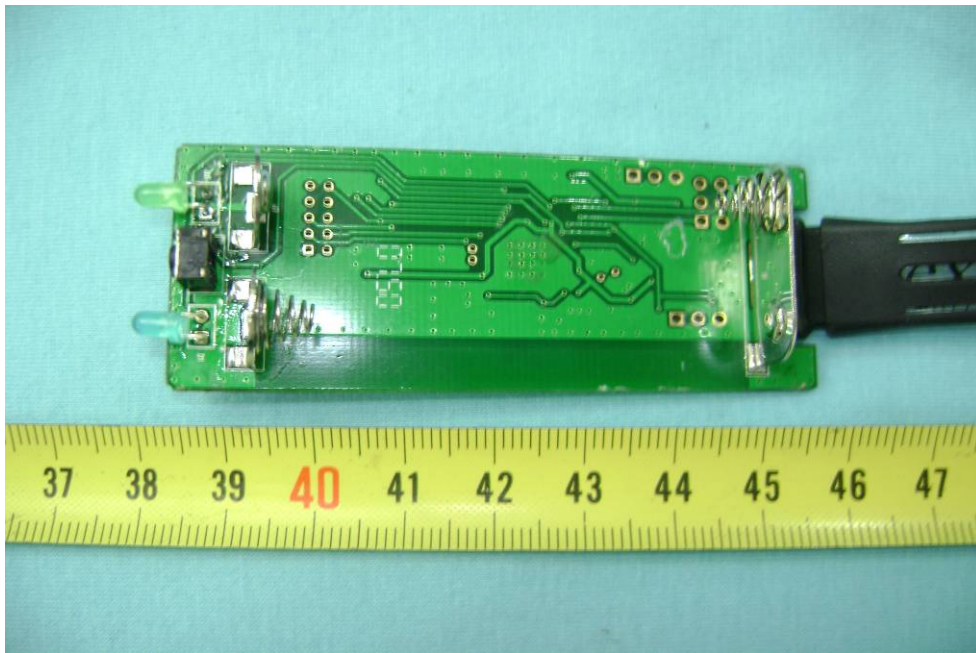
10.1 EUT - Front View



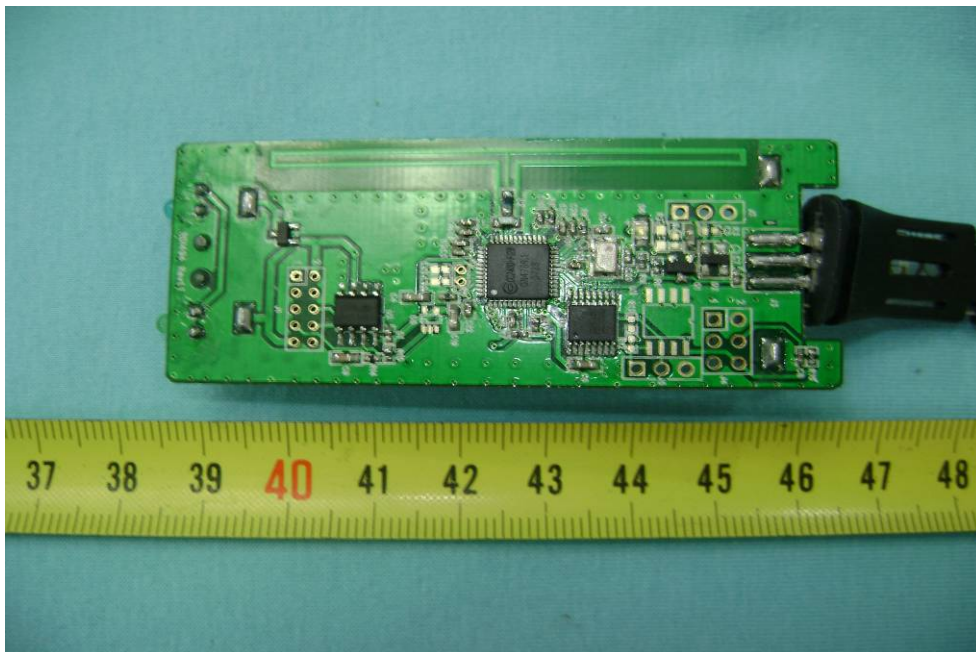
10.2 EUT - Back View



10.3 PCB – Front View



10.4 PCB - Back View



11 FCC ID Label

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:(1)this device may not cause harmful interference,and (2) this device must accept any interference received, including interference that may cause undesired operation.

The Label must not be a stick-on paper. The Label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Proposed Label Location on EUT
EUT Bottom View/proposed FCC Mark Location

