

FCC REPORT

Applicant: JINAN WANBIN IMPORT&EXPORT TRADE CO.,LTD

Address of Applicant: Suite 3-101, Building No.18, Spring Garden, Happy Street 25-27-29, Huaiyin District, Jinan City, Shandong Province, China

Manufacturer/Factory: JINAN WANBIN IMPORT&EXPORT TRADE CO.,LTD

Address of Manufacturer/Factory: Suite 3-101, Building No.18, Spring Garden, Happy Street 25-27-29, Huaiyin District, Jinan City, Shandong Province, China

Equipment Under Test (EUT)

Product Name: Tyre Pressure Sensors (TPMS Sensors)

Model No.: WBU-A

FCC ID: 2APXO-WBU

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.231

Date of sample receipt: May 18, 2018

Date of Test: May 18-22, 2018

Date of report issued: May 23, 2018

Test Result : PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Robinson Lo
Laboratory Manager

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

2 Version

Version No.	Date	Description
01	May 23, 2018	Original

Prepared By:

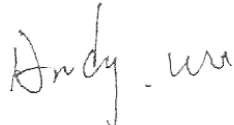


Date:

May 23, 2018

Project Engineer

Check By:



Date:

May 23, 2018

Reviewer

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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
Field strength of the fundamental signal	15.231 (e)	Pass
Spurious emissions	15.231 (e)/15.209	Pass
20dB Bandwidth	15.231 (c)	Pass
Dwell time	15.231 (e)	Pass

Pass: The EUT complies with the essential requirements in the standard.

4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz ~ 30MHz	± 4.34dB	(1)
Radiated Emission	30MHz ~ 1000MHz	± 4.24dB	(1)
Radiated Emission	1GHz ~ 26.5GHz	± 4.68dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	± 3.45dB	(1)

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

5 General Information

5.1 General Description of EUT

Product Name:	Tyre Pressure Sensors (TPMS Sensors)
Model No.:	WBU-A
Test sample(s) ID:	GTS201805000136-1
Sample(s) Status	Engineer sample
Serial No.	N/A
Hardware version	N/A
Software version	N/A
Operation Frequency:	315MHz
Modulation technology:	FSK or ASK
Antenna Type:	Integral Antenna
Antenna gain:	0dBi (declare by applicant)
Power supply:	DC 3V by Button battery

Remark: Though the pre built-in firmware, this TPMS sensor transmit per 30s

5.2 Test mode

Transmitting mode	Keep the EUT in transmitting mode.
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Per-test mode.

We have verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. Which only the worst case was shown in this test report and defined as follows:

Axis	X	Y	Z
Field Strength(dBuV/m)	67.48	68.19	67.85

5.3 Description of Support Units

Manufacturer	Description	Model	Serial Number
N/A	Adapter	CW1201500	N/A
Hamaton	TPMS Reset Tool	HTT0110A	N/A

5.4 Test Facility

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

- **FCC —Registration No.: 381383**

Global United Technology Services Co., Ltd., Shenzhen 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 files. Registration 381383, January 08, 2018.

- **Industry Canada (IC) —Registration No.: 9079A-2**

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, August 15, 2016

5.5 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.
 No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone,
 Xixiang Road, Baoan District, Shenzhen, Guangdong, China
 Tel: 0755-27798480
 Fax: 0755-27798960

5.6 Other Information Requested by the Customer

None.

5.7 Additional instructions

Software (Used for test) from client

Mode	Special test SW was built-in by manufacturer.
Power set	Default

6 Test Instruments list

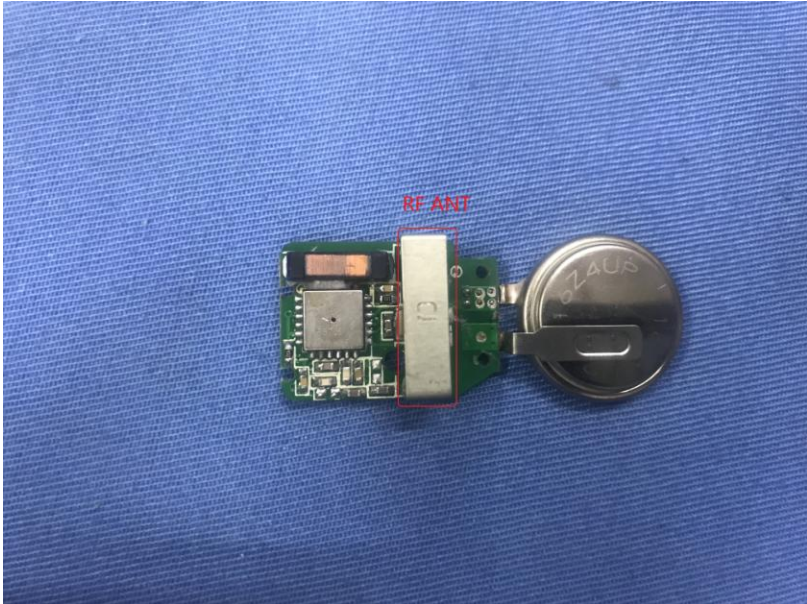
Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	July 03 2015	July 02 2020
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June 28 2017	June 27 2018
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June 28 2017	June 27 2018
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June 28 2017	June 27 2018
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 28 2017	June 27 2018
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	June 28 2017	June 27 2018
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
9	Coaxial Cable	GTS	N/A	GTS213	June 28 2017	June 27 2018
10	Coaxial Cable	GTS	N/A	GTS211	June 28 2017	June 27 2018
11	Coaxial cable	GTS	N/A	GTS210	June 28 2017	June 27 2018
12	Coaxial Cable	GTS	N/A	GTS212	June 28 2017	June 27 2018
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June 28 2017	June 27 2018
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	June 28 2017	June 27 2018
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 28 2017	June 27 2018
16	Band filter	Amindeon	82346	GTS219	June 28 2017	June 27 2018
17	Power Meter	Anritsu	ML2495A	GTS540	June 28 2017	June 27 2018
18	Power Sensor	Anritsu	MA2411B	GTS541	June 28 2017	June 27 2018

Conducted Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	May.16 2014	May.15 2019
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June 28 2017	June 27 2018
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June 28 2017	June 27 2018
4	Artificial Mains Network	SCHWARZBECK MESS	NSLK8127	GTS226	June 28 2017	June 27 2018
5	Coaxial Cable	GTS	N/A	GTS227	N/A	N/A
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
7	Thermo meter	KTJ	TA328	GTS233	June 28 2017	June 27 2018

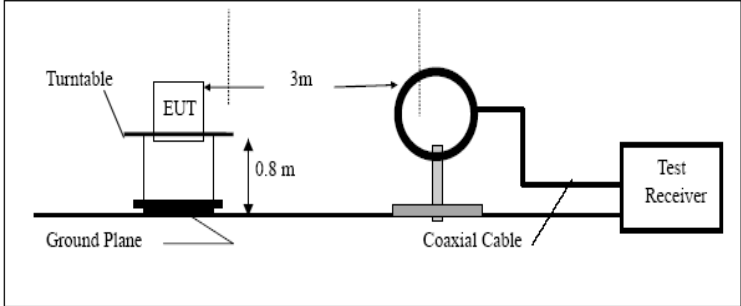
General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Barometer	ChangChun	DYM3	GTS257	June 28 2017	June 27 2018

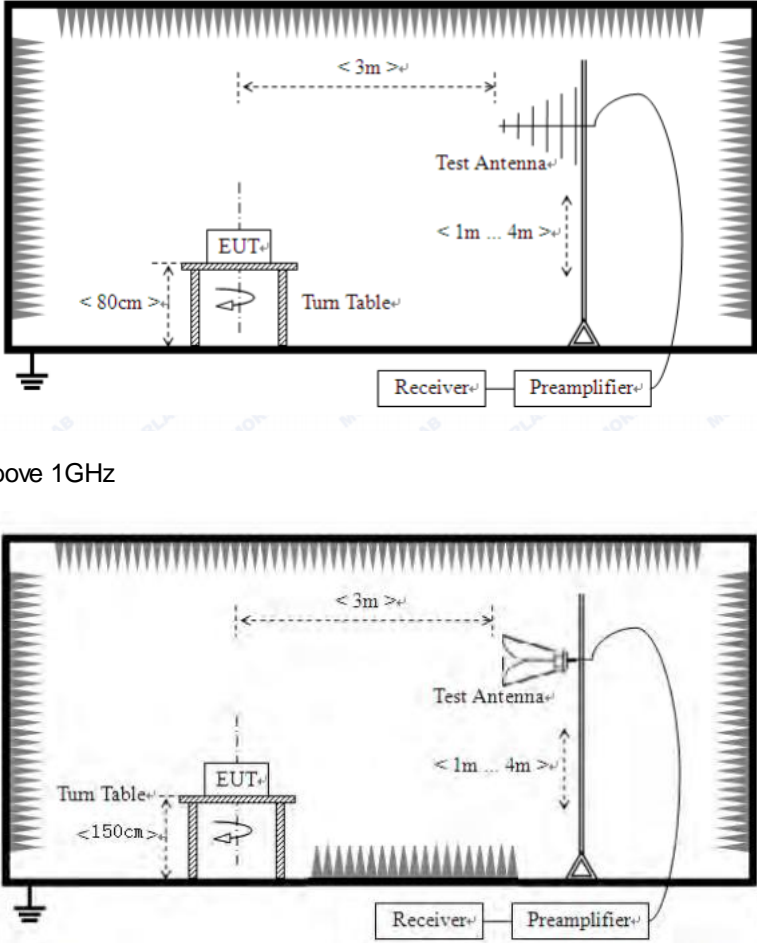
7 Test results and Measurement Data

7.1 Antenna requirement

Standard requirement:	FCC Part15 C Section 15.203
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 antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.	
EUT Antenna: The antenna is integral antenna; the best case gain of the antenna is 0dBi.	
	

7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	9kHz to 6000MHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
Peak		1MHz	10Hz	Average	
Limit: (Field strength of the fundamental signal)	Frequency	Limit (dBuV/m @3m)		Remark	
	315MHz	67.66		Average Value	
		87.66		Peak Value	
Limit: (Spurious Emissions)	Frequency	Limit (uV/m)	Value	Measurement Distance	
	0.009MHz-0.490MHz	2400/F(KHz)	QP	300m	
	0.490MHz-1.705MHz	24000/F(KHz)	QP	300m	
	1.705MHz-30MHz	30	QP	30m	
	30MHz-88MHz	100	QP	3m	
	88MHz-216MHz	150	QP		
	216MHz-960MHz	200	QP		
	960MHz-1GHz	500	QP		
	Above 1GHz	500	Average		
		5000	Peak		
Or The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level whichever limit permits a higher field strength.					
Test setup:	<p>Below 30MHz</p>  <p>Below 1GHz</p>				

	 <p>Above 1GHz</p>
<p>Test Procedure:</p>	<ol style="list-style-type: none"> 1. The EUT was placed on the top of a rotating table (0.8 meters for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement data:

7.2.1 Field Strength of The Fundamental Signal

ASK

Peak value:

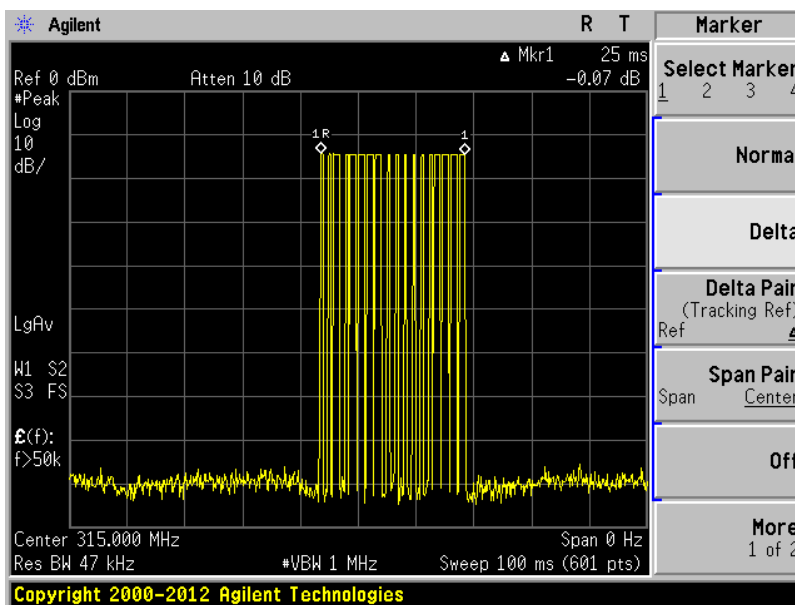
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
315	81.43	13.79	2.44	30.11	67.55	87.66	-20.11	Horizontal
315	79.76	13.79	2.44	30.11	65.88	87.66	-21.78	Vertical

Average value:

Frequency (MHz)	Peak Value (dBuV/m)	Duty cycle factor	Average value (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
315	67.55	-12.04	55.51	67.66	-12.15	Horizontal
315	65.88	-12.04	53.84	67.66	-13.82	Vertical

Average value:	
Calculate Formula:	Average value=Peak value + Duty Cycle Factor
	Duty cycle factor=20 log(Duty cycle)
	Duty cycle=on time/100 milliseconds or period, whichever is less
Test data:	T on time =25(ms)
	T period =100ms
	Duty cycle=0.25
	duty cycle factor= -12.04

Test plot as follows:



FSK

Peak value:

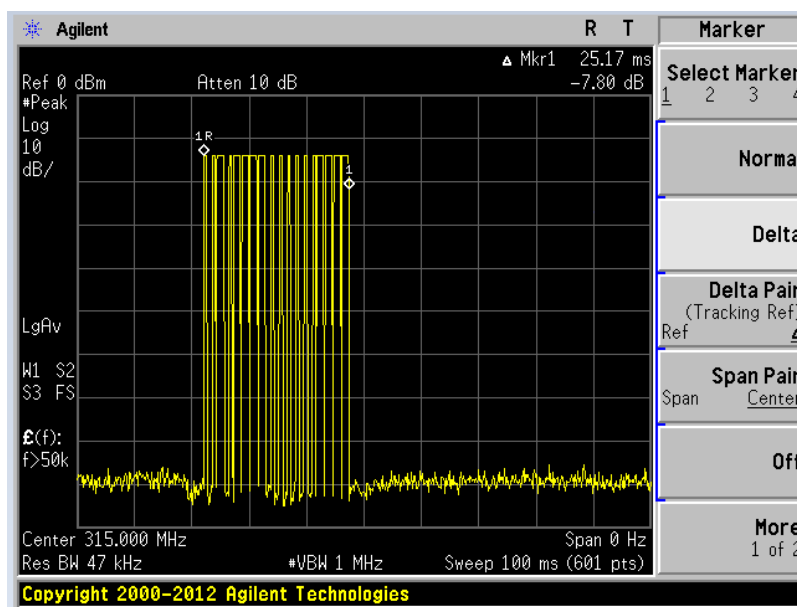
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
315	82.07	13.79	2.44	30.11	68.19	87.66	-19.47	Horizontal
315	79.11	13.79	2.44	30.11	65.23	87.66	-22.43	Vertical

Average value:

Frequency (MHz)	Peak Value (dBuV/m)	Duty cycle factor	Average value (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
315	68.19	-11.98	56.21	67.66	-11.45	Horizontal
315	65.23	-11.98	53.25	67.66	-14.41	Vertical

Average value:	
Calculate Formula:	Average value=Peak value + Duty Cycle Factor
	Duty cycle factor=20 log(Duty cycle)
	Duty cycle=on time/100 milliseconds or period, whichever is less
Test data:	T on time =25.17(ms)
	T period =100ms
	Duty cycle=0.2517
	duty cycle factor=-11.98

Test plot as follows:



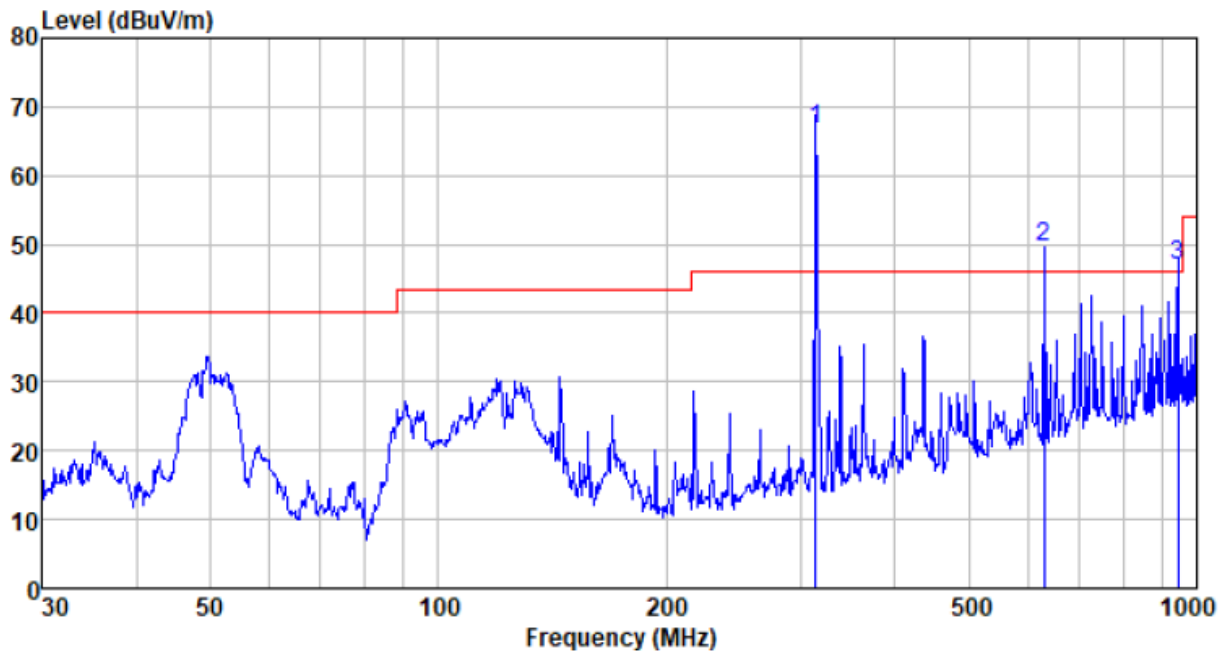
7.2.2 Spurious emissions

Below 30MHz

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

Below 1GHz:

ASK:



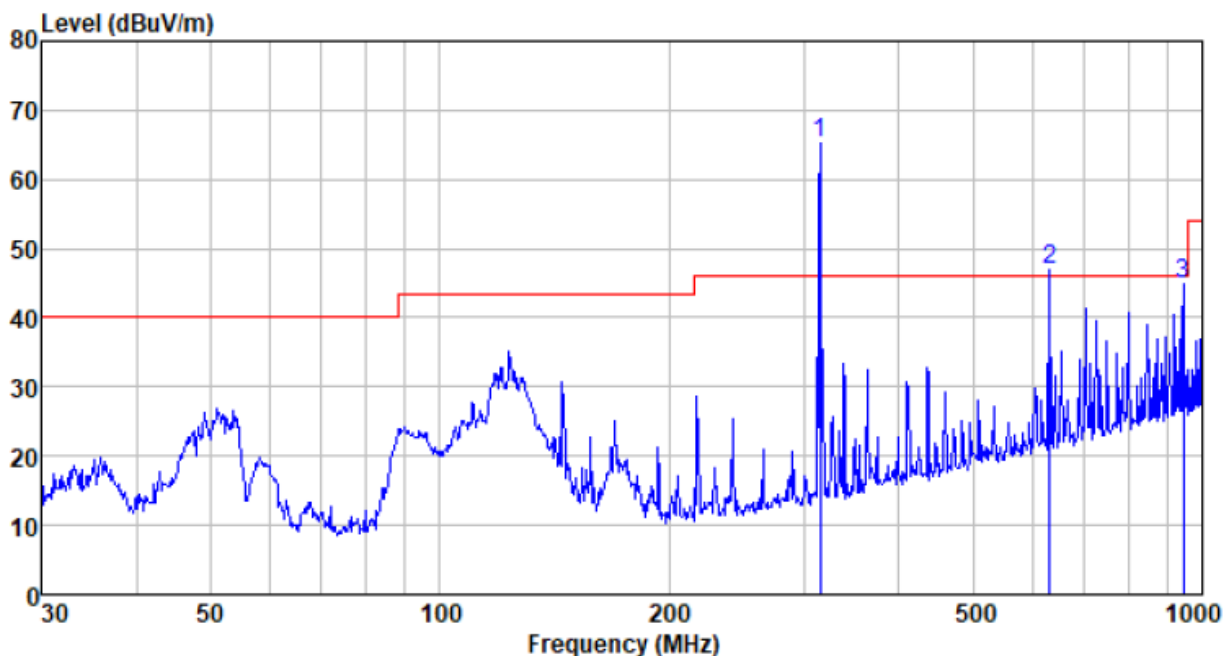
Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
630.000	56.13	19.45	3.84	29.34	50.08	67.66	-17.58	Vertical
945.000	47.86	22.46	5.03	29.25	46.1	67.66	-21.56	Vertical

Average value:

Frequency (MHz)	Level (dBuV/m)	Duty cycle factor	Average Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
630.000	50.08	-12.04	38.04	54	-15.96	Vertical
945.000	46.1	-12.04	34.06	54	-19.94	Vertical

FSK:



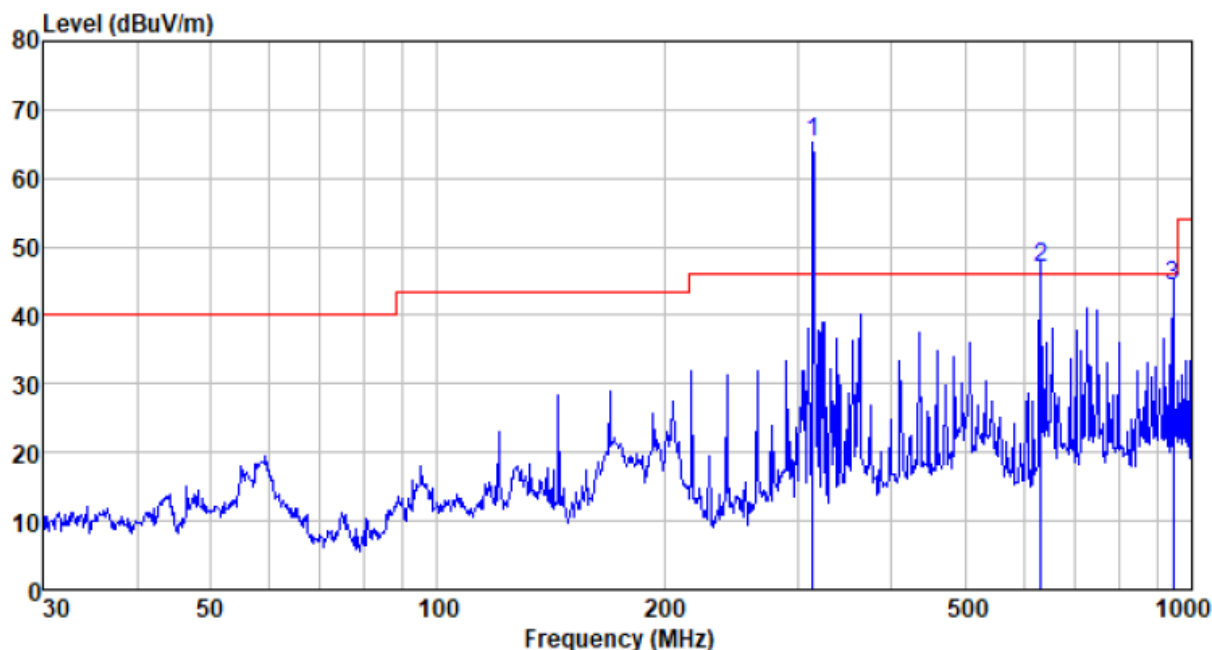
Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
630.000	53.44	19.45	3.84	29.34	47.39	67.66	-20.27	Vertical
945.000	45.87	22.46	5.03	29.25	44.11	67.66	-23.55	Vertical

Average value:

Frequency (MHz)	Level (dBuV/m)	Duty cycle factor	Average Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
630.000	47.39	-11.98	35.41	54	-18.59	Vertical
945.000	44.11	-11.98	32.13	54	-21.87	Vertical

ASK:



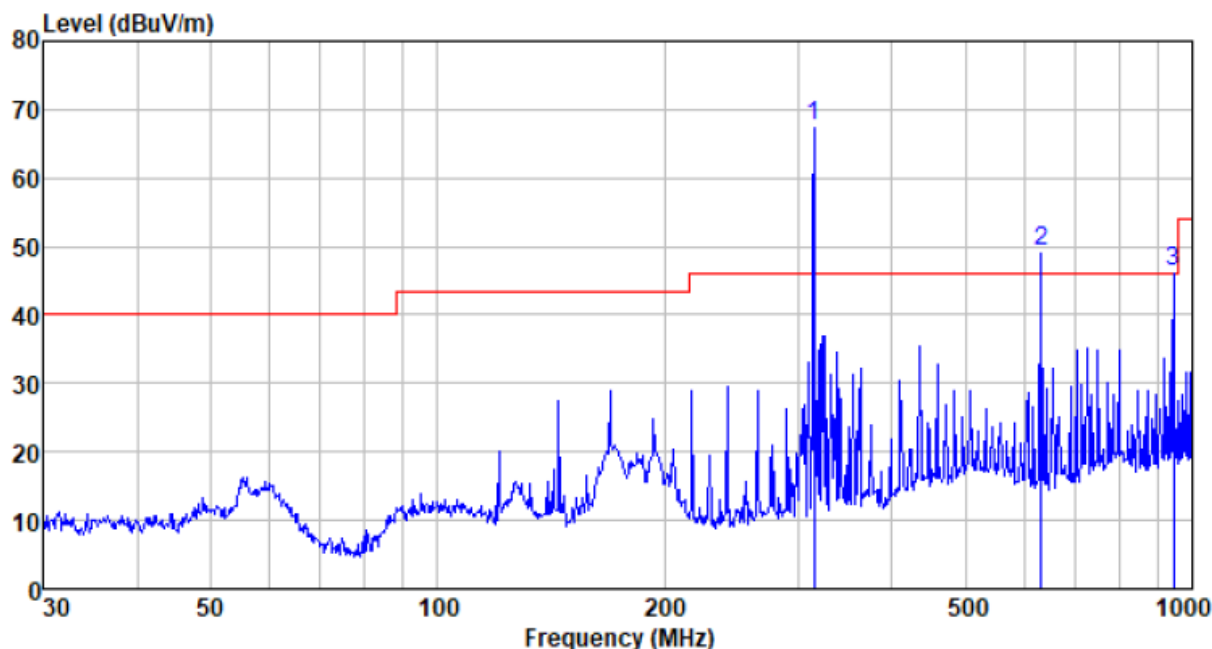
Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
630.000	53.14	19.45	3.84	29.34	47.09	67.66	-20.57	Horizontal
945.000	46.89	22.46	5.03	29.25	45.13	67.66	-22.53	Horizontal

Average value:

Frequency (MHz)	Level (dBuV/m)	Duty cycle factor	Average Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
630.000	47.09	-12.04	35.05	54	-18.95	Horizontal
945.000	45.13	-12.04	33.09	54	-20.91	Horizontal

FSK :



Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
630.000	55.37	19.45	3.84	29.34	49.33	67.66	-18.33	Horizontal
945.000	48.05	22.46	5.03	29.25	46.29	67.66	-21.37	Horizontal

Average value:

Frequency (MHz)	Level (dBuV/m)	Duty cycle factor	Average Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
630.000	49.33	-11.98	37.35	54	-16.65	Horizontal
945.000	46.29	-11.98	34.31	54	-19.69	Horizontal

Above 1G:

Peak value:

ASK:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
1085	40.69	24.72	4.37	35.85	33.93	74	-40.07	Vertical
1780	38.5	25.21	4.85	36.27	32.29	74	-41.71	Vertical
2535	38.16	27.6	5.52	36.82	34.46	74	-39.54	Vertical
3530	37.92	29.04	7.01	37.36	36.61	74	-37.39	Vertical
4370	35.15	30.97	8.22	37.57	36.77	74	-37.23	Vertical
5150	35.02	32.07	8.99	37.49	38.59	74	-35.41	Vertical
1100	40.11	24.77	4.38	35.86	33.4	74	-40.6	Horizontal
1740	39.18	25.05	4.83	36.25	32.81	74	-41.19	Horizontal
2545	38.37	27.61	5.53	36.83	34.68	74	-39.32	Horizontal
3515	37.53	29.01	6.99	37.36	36.17	74	-37.83	Horizontal
4335	34.96	30.88	8.18	37.57	36.45	74	-37.55	Horizontal
5125	35.95	32.05	8.94	37.51	39.43	74	-34.57	Horizontal

FSK:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
1080	39.26	24.7	4.37	35.85	32.48	74	-41.52	Vertical
1765	38.4	25.14	4.84	36.26	32.12	74	-41.88	Vertical
2510	37.97	27.56	5.49	36.81	34.21	74	-39.79	Vertical
3460	39.37	28.84	6.88	37.34	37.75	74	-36.25	Vertical
4360	35.74	30.97	8.21	37.57	37.35	74	-36.65	Vertical
5145	35.35	32.06	8.99	37.49	38.91	74	-35.09	Vertical
1060	42.36	24.65	4.35	35.84	35.52	74	-38.48	Horizontal
1735	39.7	25.05	4.82	36.24	33.33	74	-40.67	Horizontal
2495	38.5	27.54	5.48	36.79	34.73	74	-39.27	Horizontal
3485	38.55	28.93	6.93	37.34	37.07	74	-36.93	Horizontal
4350	35.69	30.93	8.21	37.57	37.26	74	-36.74	Horizontal
5110	35.16	32.04	8.92	37.53	38.59	74	-35.41	Horizontal

Average value:

ASK

Frequency (MHz)	Level (dBuV/m)	Duty cycle factor	Average Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
1085	33.93	-12.04	21.89	54	-32.11	Vertical
1780	32.29	-12.04	20.25	54	-33.75	Vertical
2535	34.46	-12.04	22.42	54	-31.58	Vertical
3530	36.61	-12.04	24.57	54	-29.43	Vertical
4370	36.77	-12.04	24.73	54	-29.27	Vertical
5150	38.59	-12.04	26.55	54	-27.45	Vertical
1100	33.4	-12.04	21.36	54	-32.64	Horizontal
1740	32.81	-12.04	20.77	54	-33.23	Horizontal
2545	34.68	-12.04	22.64	54	-31.36	Horizontal
3515	36.17	-12.04	24.13	54	-29.87	Horizontal
4335	36.45	-12.04	24.41	54	-29.59	Horizontal
5125	39.43	-12.04	27.39	54	-26.61	Horizontal

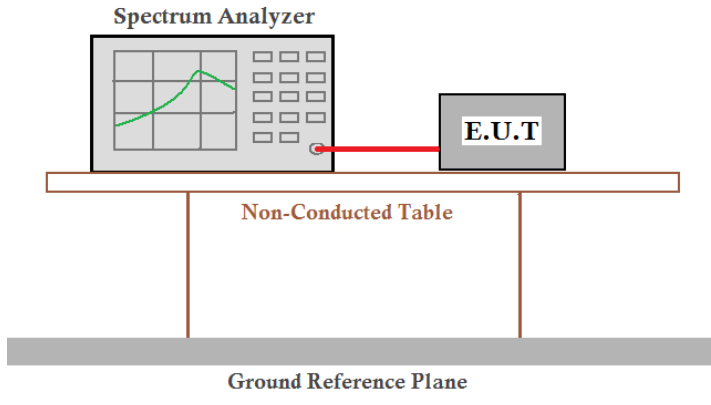
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Frequency (MHz)	Level (dBuV/m)	Duty cycle factor	Average Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
1080	32.48	-11.98	20.5	54	-33.5	Vertical
1765	32.12	-11.98	20.14	54	-33.86	Vertical
2510	34.21	-11.98	22.23	54	-31.77	Vertical
3460	37.75	-11.98	25.77	54	-28.23	Vertical
4360	37.35	-11.98	25.37	54	-28.63	Vertical
5145	38.91	-11.98	26.93	54	-27.07	Vertical
1060	35.52	-11.98	23.54	54	-30.46	Horizontal
1735	33.33	-11.98	21.35	54	-32.65	Horizontal
2495	34.73	-11.98	22.75	54	-31.25	Horizontal
3485	37.07	-11.98	25.09	54	-28.91	Horizontal
4350	37.26	-11.98	25.28	54	-28.72	Horizontal
5110	38.59	-11.98	26.61	54	-27.39	Horizontal

Remark:

1. *Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor*
2. *Average value = Peak value + Duty cycle factor*

7.3 20dB Occupy Bandwidth

Test Requirement:	FCC Part15 C Section 15.231 (c)
Test Method:	ANSI C63.10:2013
Limit:	The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.
Test setup:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data

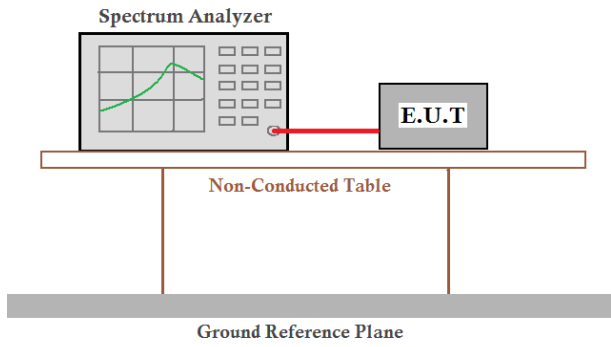
Modulation	Test Frequency (MHz)	20dB bandwidth (MHz)	Limit (MHz)	Result
ASK	315	0.053	0.7875	Pass
FSK	315	0.116	0.7875	Pass

Note: Limit= Fundamental frequency×0.25%=315×0.25%=0.7875MHz

Test plot as follows:



7.4 Dwell time & Silent Time

Test Requirement:	FCC Part15 C Section 15.231 (e)
Test Method:	ANSI C63.10:2013
Limit:	Dwell Time: Not more than 1s Silent Time: no case less than 10s
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.</p>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement data:

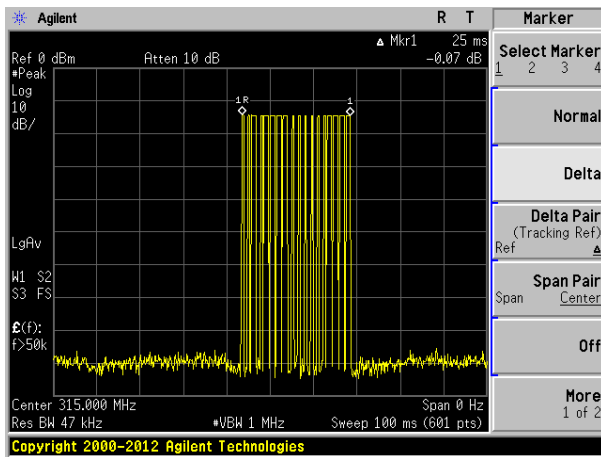
Dwell Time

Modulation	Duration of each TX(second):	Limit (second)	Result
ASK	0.3073	<1.0	Pass
FSK	0.3063	<1.0	Pass

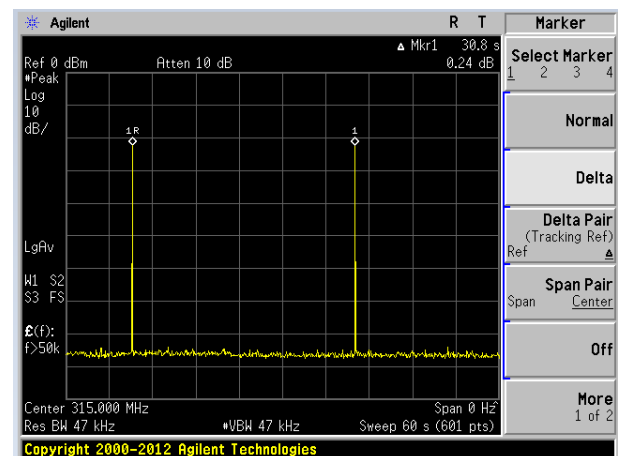
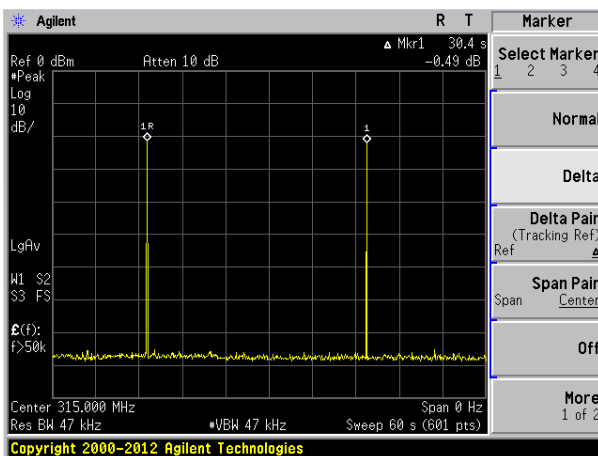
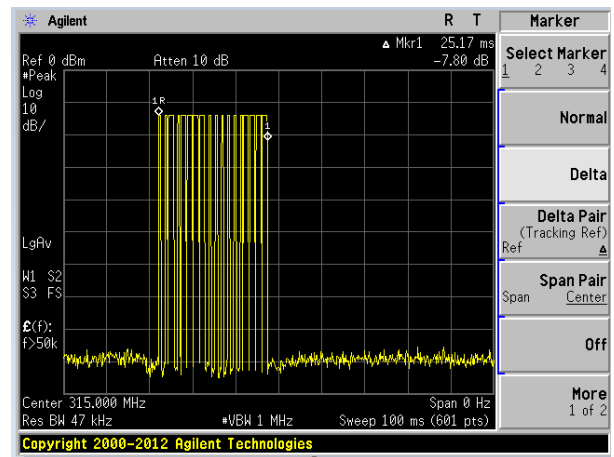
Silent Time

Modulation	Silent of each TX(second):	Limit (second)	Result
ASK	30.4	>10	Pass
FSK	30.8	>10	Pass

ASK

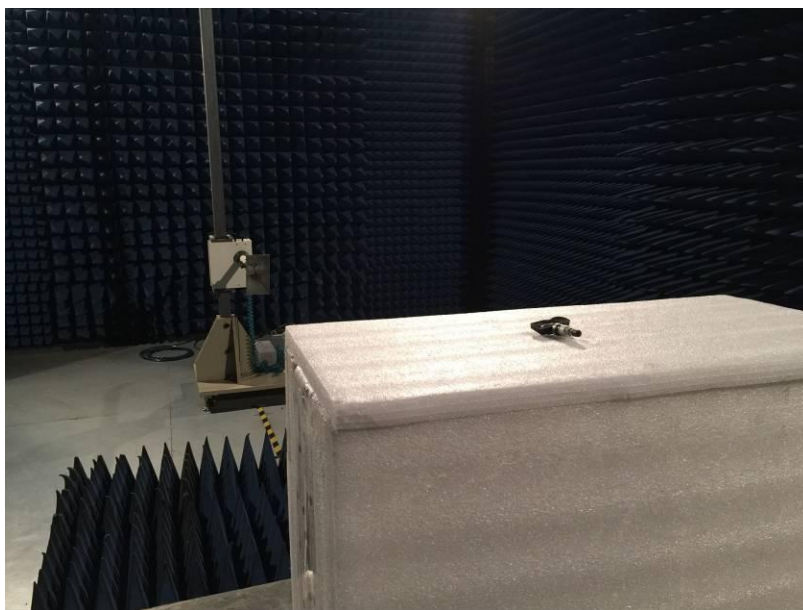


FSK



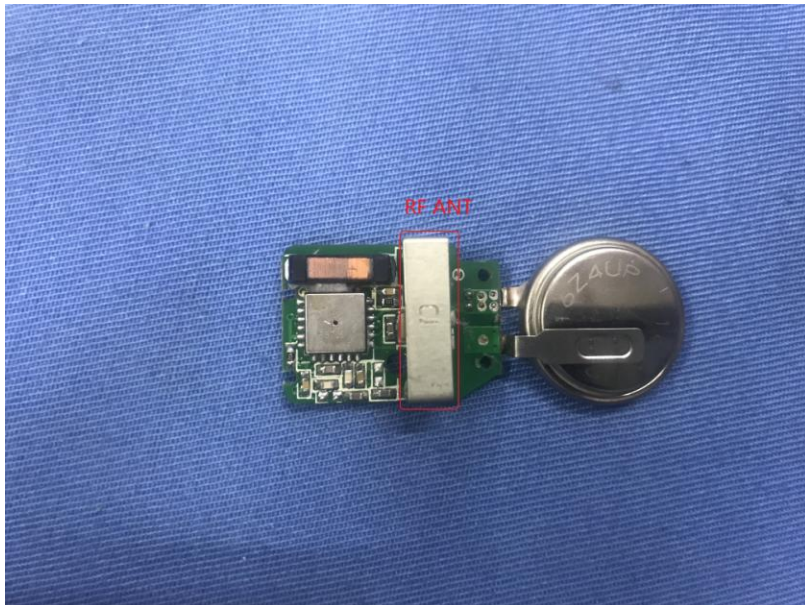
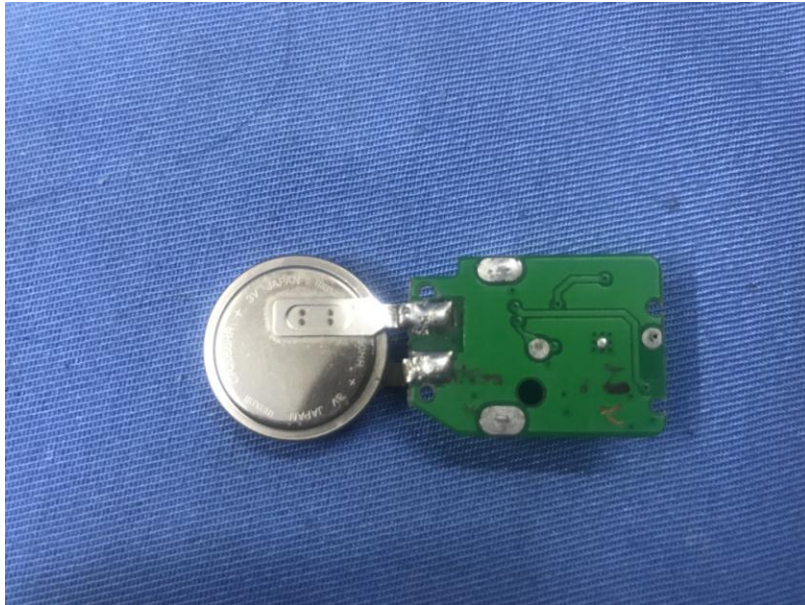
8 Test Setup Photo

Radiated Emission



9 EUT Constructional Details





----- End -----