

FCC TEST REPORT

Product : LED WIRELESS TOW LIGHT
Trade mark : BLAZER international
Model/Type reference : C6304NF
Serial Number : N/A
Report Number : EED32J00258901
FCC ID : PZTC6304NF
Date of Issue : Jun. 27, 2018
Test Standards : 47 CFR Part 15 Subpart C
Test result : PASS

Prepared for:

Tiger Accessory Group LLC
6700 Wildlife Way, Long Grove, Illinois 60047, United States

Prepared by:

Centre Testing International Group Co., Ltd.
Hongwei Industrial Zone, Bao'an 70 District,
Shenzhen, Guangdong, China
TEL: +86-755-3368 3668
FAX: +86-755-3368 3385

Tested By:

Tom chen

Tom chen (Test Project)

Compiled by:

Kevin Yang

Kevin yang (Project Engineer)

Reviewed by:

Ware Xin

Ware Xin (Reviewer)

Approved by:

Sheek Luo

Sheek Luo (Lab supervisor)

Date:

Jun. 27, 2018

Check No.:2448721943



2Version

Version No.	Date	Description
00	Jun. 27, 2018	Original

3 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203	ANSI C63.10-2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15 Subpart C Section 15.207	ANSI C63.10-2013	N/A
Field Strength of the Fundamental Signal	47 CFR Part 15 Subpart C Section 15.249 (a)	ANSI C63.10-2013	PASS
Spurious Emissions	47 CFR Part 15 Subpart C Section 15.249 (a)/15.209	ANSI C63.10-2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15 Subpart C Section 15.249(a)/15.205	ANSI C63.10-2013	PASS
20dB Occupied Bandwidth	47 CFR Part 15 Subpart C Section 15.215 (c)	ANSI C63.10-2013	PASS

Remark:

The tested samples and the sample information are provided by the client.

N/A: In this whole report not application.

4 Contents

	Page
1 COVER PAGE.....	1
2 Version.....	2
3 Test Summary.....	3
4 Contents.....	4
5 General Information.....	5
5.1 Client Information.....	5
5.2 General Description of EUT.....	5
5.3 Product Specification subjective to this standard.....	5
5.4 Test Environment and Mode.....	5
5.5 Description of Support Units.....	6
5.6 Test Location.....	6
5.7 Deviation from Standards.....	6
5.8 Abnormalities from Standard Conditions.....	6
5.9 Other Information Requested by the Customer.....	6
5.10 Measurement Uncertainty (95% confidence levels, k=2).....	6
6 Equipment List.....	7
7 Test results and Measurement Data.....	8
7.1 Antenna Requirement.....	8
7.2 Radiated Spurious Emission.....	9
7.3 Restricted bands around fundamental frequency.....	16
7.4 20dB Bandwidth.....	18
APPENDIX PHOTOGRAPHS OF TEST SETUP.....	21
APPENDIX PHOTOGRAPHS OF EUT.....	23

5 General Information

5.1 Client Information

Applicant:	Tiger Accessory Group LLC
Address of Applicant:	6700 Wildlife Way, Long Grove, Illinois 60047, United States
Manufacturer:	TOKING AUTO INDUSTRIAL INT' L CO., LTD.
Address of Manufacturer:	A-202, ZHONGTIAN MCC, TONGPU ROAD ACROSS XIDOU MEN ROAD, HANGZHOU 310012 CHINA
Factory:	ZHEJIANG LEIYA ELECTRONICS CO., LTD.
Address of Factory:	NO. 519, ROAD 15, BINHAI INDUSTRIAL PARK, WENZHOU, ZHEJIANG 325025, CHINA.

5.2 General Description of EUT

Product Name:	LED WIRELESS TOW LIGHT
Model No.:	C6304NF
Trade Mark:	BLAZER international
EUT Supports Radios application:	2401MHz-2479MHz
Power Supply:	DC12V

5.3 Product Specification subjective to this standard

Frequency Range:	2401MHz-2479MHz
Modulation Type:	GFSK
Number of Channels:	28 (declared by the client)
Sample Type:	fixed production
Antenna Type:	Integral
Antenna Gain:	2.5dBi
Test voltage:	DC 12V
Sample Received Date:	Nov. 16, 2017
Sample tested Date:	Nov. 16, 2017 to Jun. 27, 2018

5.4 Test Environment and Mode

Operating Environment:	
Temperature:	24°C
Humidity:	55% RH
Atmospheric Pressure:	1010 mbar
Test mode:	
Tx Mode:	Keep the EUT transmitting continuous modulation signal at lowest middle and highest channel .
Normal Mode:	The EUT transmitting and receiving the signal between the telecontroller and LED Light.

5.5 Description of Support Units

The EUT has been tested independently.

5.6 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd.

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, Guangdong, China 518101

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

5.7 Deviation from Standards

None.

5.8 Abnormalities from Standard Conditions

None.

5.9 Other Information Requested by the Customer

None.

5.10 Measurement Uncertainty (95% confidence levels, k=2)

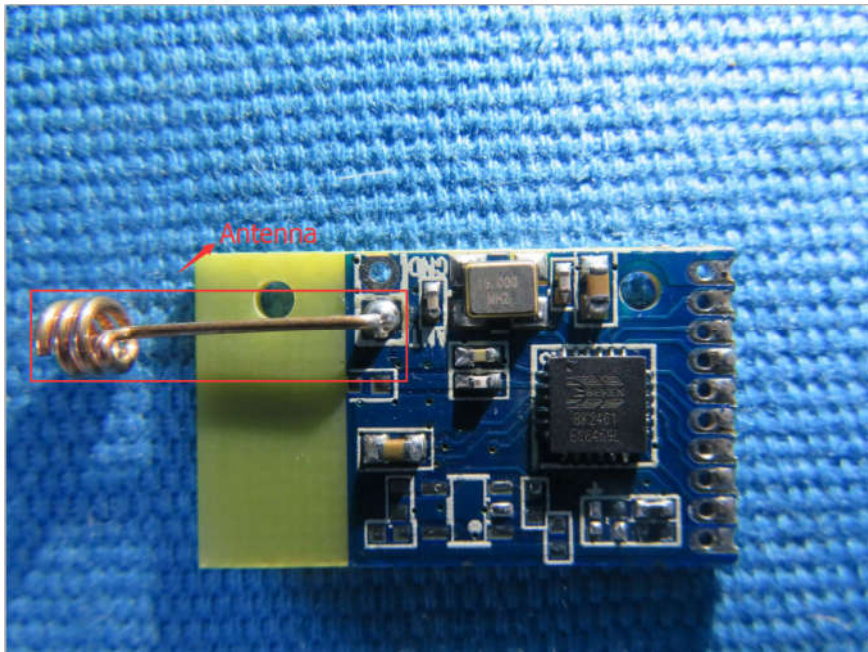
No.	Item	Measurement Uncertainty
1	Radio Frequency	7.9×10^{-8}
2	RF power, conducted	0.31dB (30MHz-1GHz)
		0.57dB (1GHz-18GHz)
3	Radiated Spurious emission test	4.5dB (30MHz-1GHz)
		4.8dB (1GHz-12.75GHz)
4	Conduction emission	3.6dB (9kHz to 150kHz)
		3.2dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	2.8%
7	DC power voltages	0.025%

6 Equipment List

3M Semi/full-anechoic Chamber					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
3M Chamber & Accessory Equipment	TDK	SAC-3	---	06-04-2016	06-03-2019
TRILOG Broadband Antenna	SCHWARZBEC K	VULB9163	9163-484	06-09-2017 06-08-2018	06-08-2018 06-07-2019
Microwave Preamplifier	Agilent	8449B	3008A02425	02-16-2017 02-15-2018	02-15-2018 02-14-2019
Horn Antenna	ETS-LINDGREN	3117	00057407	02-16-2017 02-15-2018	02-15-2018 02-14-2019
Loop Antenna	ETS	6502	00071730	06-22-2017	06-21-2019
Spectrum Analyzer	R&S	FSP40	100416	06-13-2017 06-12-2018	06-12-2018 06-11-2019
Receiver	R&S	ESCI	100435	06-14-2017 06-13-2018	06-13-2018 06-12-2019
LISN	schwarzbeck	NNBM8125	81251547	06-13-2017 06-12-2018	06-12-2018 06-11-2019
LISN	schwarzbeck	NNBM8125	81251548	06-13-2017 06-12-2018	06-12-2018 06-11-2019
Signal Generator	Agilent	E4438C	MY45095744	03-14-2017 03-13-2018	03-13-2018 03-12-2019
Signal Generator	Keysight	E8257D	MY53401106	03-14-2017 03-13-2018	03-13-2018 03-12-2019
Temperature/ Humidity Indicator	TAYLOR	1451	1905	05-08-2017 05-07-2018	05-07-2018 05-06-2019
Cable line	Fulai(7M)	SF106	5219/6A	01-11-2017 01-10-2018	01-10-2018 01-09-2019
Cable line	Fulai(6M)	SF106	5220/6A	01-11-2017 01-10-2018	01-10-2018 01-09-2019
Cable line	Fulai(3M)	SF106	5216/6A	01-11-2017 01-10-2018	01-10-2018 01-09-2019
Cable line	Fulai(3M)	SF106	5217/6A	01-11-2017 01-10-2018	01-10-2018 01-09-2019
High-pass filter	Sinoscite	FL3CX03WG18 NM12-0398-002	---	01-11-2017 01-10-2018	01-10-2018 01-09-2019
band rejection filter	Sinoscite	FL5CX01CA09 CL12-0395-001	---	01-11-2017 01-10-2018	01-10-2018 01-09-2019
band rejection filter	Sinoscite	FL5CX01CA08 CL12-0393-001	---	01-11-2017 01-10-2018	01-10-2018 01-09-2019
band rejection filter	Sinoscite	FL5CX02CA04 CL12-0396-002	---	01-11-2017 01-10-2018	01-10-2018 01-09-2019
band rejection filter	Sinoscite	FL5CX02CA03 CL12-0394-001	---	01-11-2017 01-10-2018	01-10-2018 01-09-2019

7 Test results and Measurement Data

7.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C 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 integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 2.5dBi.

7.2 Radiated Spurious Emission

Test Requirement: 47 CFR Part 15C Section 15.249 and 15.209

Test Method: ANSI C63.10

Test Site: Measurement Distance: 3m (Semi-Anechoic Chamber)

Receiver Setup:

Frequency	Detector	RBW	VBW	Remark
0.009MHz-0.090MHz	Peak	10kHz	30KHz	Peak
0.009MHz-0.090MHz	Average	10kHz	30KHz	Average
0.090MHz-0.110MHz	Quasi-peak	10kHz	30KHz	Quasi-peak
0.110MHz-0.490MHz	Peak	10kHz	30KHz	Peak
0.110MHz-0.490MHz	Average	10kHz	30KHz	Average
0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120kHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

Test Setup:

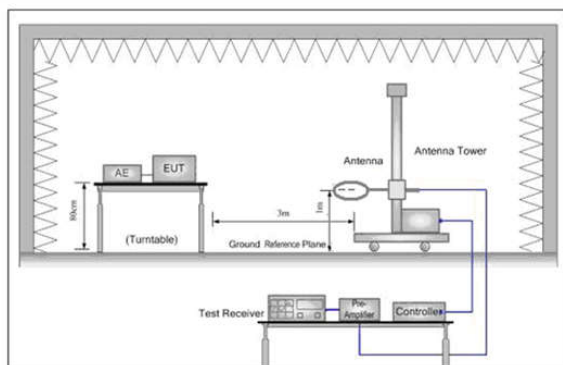


Figure 1. Below 30MHz

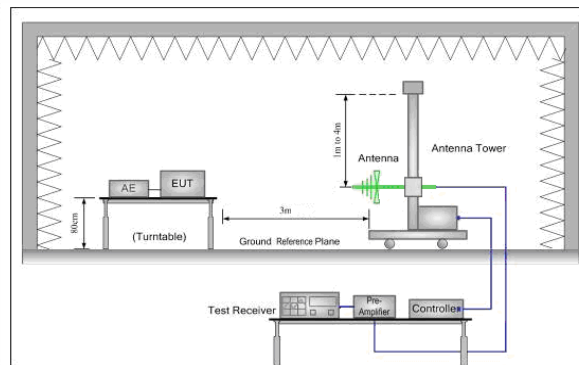


Figure 2. 30MHz to 1GHz

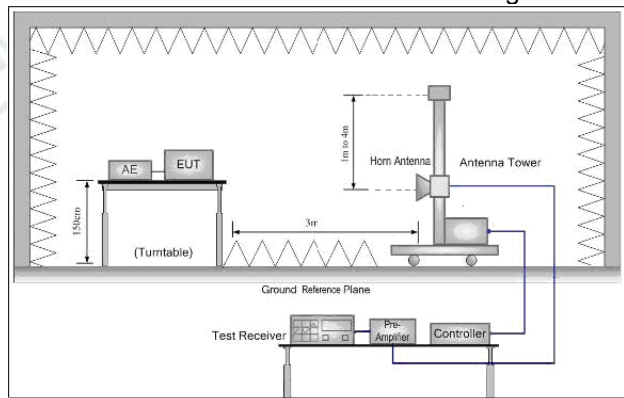


Figure 3. Above 1GHz

Test Procedure:

Below 1GHz test procedure as below:

The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

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.

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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotating table was turned from 0 degrees to 360 degrees to find the maximum reading.

The test-receiver system was set to Peak Detect Function and Specified Bandwidth with

Maximum Hold Mode.

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.

Above 1GHz test procedure as below:

Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 meter to 1.5 meter(Above 18GHz the distance is 1 meter and table is 1.5 meter).

Test the EUT in the lowest channel ,middle channel, the Highest channel

The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.

Repeat above procedures until all frequencies measured was complete.

Limit:
(Spurious
Emissions)

Frequency	Field strength (microvolt/meter)	Limit (dB μ V/m)	Remark	Measurement distance (m)
0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
1.705MHz-30MHz	30	-	-	30
30MHz-88MHz	100	40.0	Quasi-peak	3
88MHz-216MHz	150	43.5	Quasi-peak	3
216MHz-960MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3
Above 1GHz	500	54.0	Average	3

Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

Limit:
(Field strength of
the fundamental
signal)

Frequency	Limit (dB μ V/m @3m)	Remark
2400MHz-2483.5MHz	94.0	Average Value
	114.0	Peak Value

Test Mode: Transmitting mode

Instruments Used: Refer to section 6 for details

Test Results: Pass

Measurement Data
Field Strength Of The Fundamental Signal

Peak value:

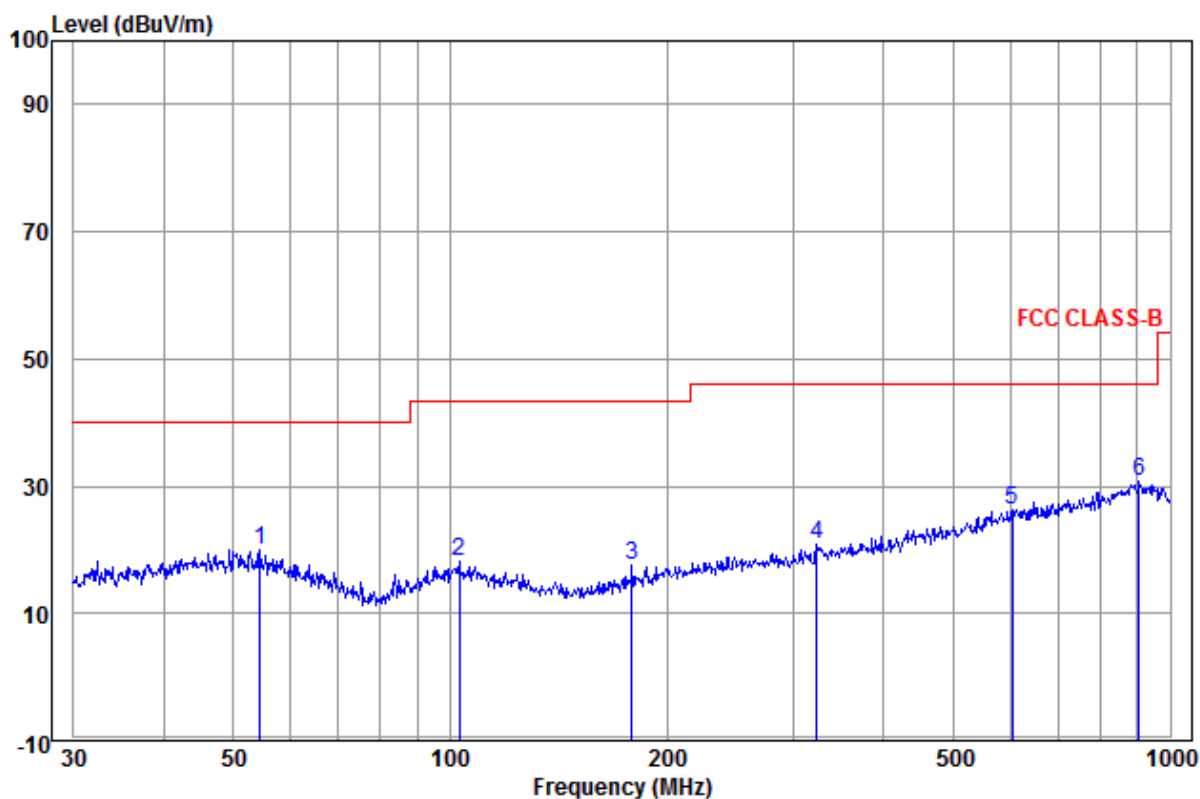
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Result	Antenna Polaxis
2401	32.56	3.07	44.04	92.61	84.20	94.0	-9.80	Pass	H
2401	32.56	3.07	44.04	92.02	83.61	94.0	-10.39	Pass	V
2440	32.64	4.41	44.07	92.32	85.30	94.0	-8.70	Pass	H
2440	32.64	4.41	44.07	92.04	85.02	94.0	-8.98	Pass	V
2479	32.71	3.12	44.14	92.71	84.40	94.0	-9.60	Pass	H
2479	32.71	3.12	44.14	92.27	83.96	94.0	-10.04	Pass	V

Remark: As shown in this section, for field strength of the fundamental signal measurements, RBW and VBW set 10MHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above. So, only the peak measurements were shown in the report.

Spurious Emissions

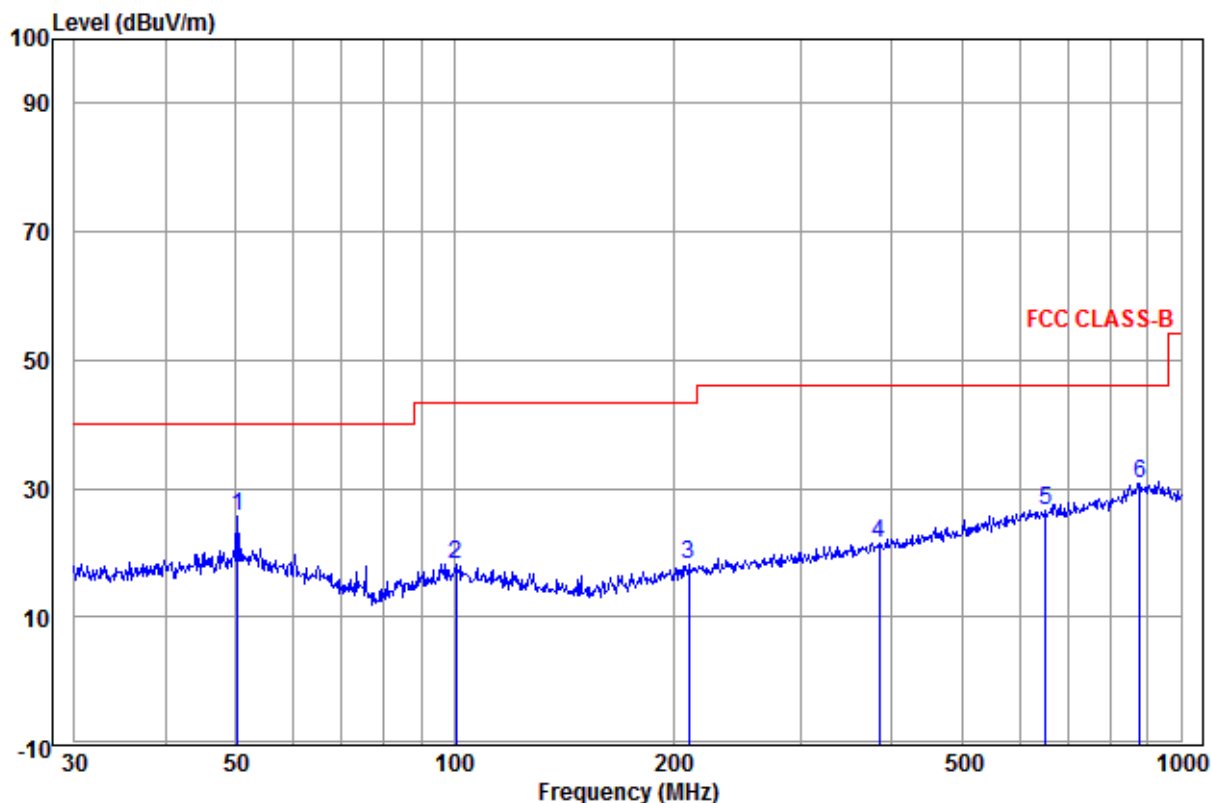
30MHz~1GHz

Horizontal



	Ant Freq	Ant Factor	Cable Loss	Read Level	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	54.452	13.90	0.16	5.89	19.95	40.00	-20.05	Horizontal	
2	103.080	12.22	0.59	5.47	18.28	43.50	-25.22	Horizontal	
3	178.758	10.45	0.91	6.18	17.54	43.50	-25.96	Horizontal	
4	323.320	13.89	1.19	5.73	20.81	46.00	-25.19	Horizontal	
5	603.539	18.71	1.83	5.68	26.22	46.00	-19.78	Horizontal	
6 pp	906.482	22.09	2.47	6.33	30.89	46.00	-15.11	Horizontal	

Vertical



	Ant Freq	Cable Factor	Read Loss	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dB/m	dB	dBuV	dBuV/m	dB		
1	pp 50.232	14.56	0.11	10.87	25.54	40.00	-14.46	Vertical
2	100.581	12.45	0.59	5.18	18.22	43.50	-25.28	Vertical
3	210.048	11.74	1.15	5.40	18.29	43.50	-25.21	Vertical
4	383.932	14.95	1.32	5.28	21.55	46.00	-24.45	Vertical
5	651.942	18.91	1.84	5.95	26.70	46.00	-19.30	Vertical
6	878.322	21.76	2.47	6.67	30.90	46.00	-15.10	Vertical

Above 1GHz

Test mode:		Transmitting		Test channel:		Lowest(2401MHz)				
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Result	Antenna Polaxis	Remark
2102.853	31.93	2.90	43.65	46.32	37.50	74.00	-36.50	Pass	H	PK
3026.195	33.58	3.39	44.70	46.75	39.02	74.00	-34.98	Pass	H	PK
3598.087	33.09	3.88	44.64	44.44	36.77	74.00	-37.23	Pass	H	PK
4802.000	34.68	5.98	44.60	65.63	61.69	74.00	-12.31	Pass	H	PK
4802.000	34.68	5.98	44.60	48.33	44.39	54.00	-9.61	Pass	H	AV
7203.000	36.42	6.97	44.77	54.86	53.48	74.00	-20.52	Pass	H	PK
7203.000	36.42	6.97	44.77	25.71	24.33	54.00	-29.67	Pass	H	AV
9604.000	37.88	6.97	45.58	42.91	42.18	74.00	-31.82	Pass	H	PK
1442.758	30.76	2.21	44.07	46.37	35.27	74.00	-38.73	Pass	V	PK
2129.789	31.99	2.92	43.69	47.21	38.43	74.00	-35.57	Pass	V	PK
3525.555	33.15	3.83	44.64	46.99	39.33	74.00	-34.67	Pass	V	PK
4802.000	34.68	5.98	44.60	61.87	57.93	74.00	-16.07	Pass	V	PK
4802.000	34.68	5.98	44.60	46.79	42.85	54.00	-11.15	Pass	V	AV
7203.000	36.42	6.97	44.77	53.92	52.54	74.00	-21.46	Pass	V	PK
7203.000	36.42	6.97	44.77	35.26	33.88	54.00	-20.12	Pass	V	AV
9604.000	37.88	6.97	45.58	42.31	41.58	74.00	-32.42	Pass	V	PK

Test mode:		Transmitting		Test channel:		Middle(2440MHz)				
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Result	Antenna Polaxis	Remark
1750.702	31.32	2.58	43.73	45.20	35.37	74.00	-38.63	Pass	H	PK
3033.908	33.57	3.39	44.70	46.45	38.71	74.00	-35.29	Pass	H	PK
3776.385	32.96	4.02	44.62	47.34	39.70	74.00	-34.30	Pass	H	PK
4880.000	34.85	6.13	44.60	69.17	65.55	74.00	-8.45	Pass	H	PK
4880.000	34.85	6.13	44.60	51.37	47.75	54.00	-6.25	Pass	H	AV
7320.000	36.43	6.85	44.87	60.68	59.09	74.00	-14.91	Pass	H	PK
7320.000	36.43	6.85	44.87	43.96	42.37	54.00	-11.63	Pass	H	AV
9760.000	38.05	7.12	45.55	42.56	42.18	74.00	-31.82	Pass	H	PK
1860.992	31.49	2.70	43.62	45.74	36.31	74.00	-37.69	Pass	V	PK
3200.502	33.42	3.55	44.68	47.83	40.12	74.00	-33.88	Pass	V	PK
3672.110	33.04	3.94	44.63	46.81	39.16	74.00	-34.84	Pass	V	PK
4880.000	34.85	6.13	44.60	60.66	57.04	74.00	-16.96	Pass	V	PK
4880.000	34.85	6.13	44.60	44.16	40.54	54.00	-13.46	Pass	V	AV
7320.000	36.43	6.85	44.87	54.41	52.82	74.00	-21.18	Pass	V	PK
7320.000	36.43	6.85	44.87	38.66	37.07	54.00	-16.93	Pass	V	AV
9760.000	38.05	7.12	45.55	41.82	41.44	74.00	-32.56	Pass	V	PK

Test mode:		Transmitting		Test channel:		Highest(2479MHz)				
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Result	Antenna Polaxis	Remark
1856.261	31.48	2.70	43.63	46.52	37.07	74.00	-36.93	Pass	H	PK
2905.419	33.45	3.32	44.61	45.98	38.14	74.00	-35.86	Pass	H	PK
3738.129	32.99	3.99	44.62	46.88	39.24	74.00	-34.76	Pass	H	PK
4958.000	35.02	6.29	44.60	60.54	57.25	74.00	-16.75	Pass	H	PK
4958.000	35.02	6.29	44.60	43.27	39.98	54.00	-14.02	Pass	H	AV
7437.000	36.45	6.73	44.97	52.93	51.14	74.00	-22.86	Pass	H	PK
7437.000	36.45	6.73	44.97	37.71	35.92	54.00	-18.08	Pass	H	AV
9916.000	38.22	7.26	45.52	42.90	42.86	74.00	-31.14	Pass	H	PK
2086.856	31.90	2.89	43.63	46.64	37.80	74.00	-36.20	Pass	V	PK
3080.601	33.53	3.44	44.69	46.32	38.60	74.00	-35.40	Pass	V	PK
3786.010	32.95	4.03	44.62	46.50	38.86	74.00	-35.14	Pass	V	PK
4958.000	35.02	6.29	44.60	61.08	57.79	74.00	-16.21	Pass	V	PK
4958.000	35.02	6.29	44.60	45.57	42.28	54.00	-11.72	Pass	V	AV
7437.000	36.45	6.73	44.97	52.92	51.13	74.00	-22.87	Pass	V	PK
7437.000	36.45	6.73	44.97	39.36	37.57	54.00	-16.43	Pass	V	AV
9916.000	38.22	7.26	45.52	40.80	40.76	74.00	-33.24	Pass	V	PK

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level =Receiver Reading - Correct Factor
Correct Factor = Preamplifier Factor- Antenna Factor-Cable Factor
- 2) Scan from the test data,the disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

3)

7.3 Restricted bands around fundamental frequency

Test Requirement: 47 CFR Part 15C Section 15.209 and 15.205
Test Method: ANSI C63.10
Test Site: Measurement Distance: 3m (Semi-Anechoic Chamber)
Limit(Band Edge): Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

Frequency	Limit (dB μ V/m @3m)	Remark
30MHz-88MHz	40.0	Quasi-peak Value
88MHz-216MHz	43.5	Quasi-peak Value
216MHz-960MHz	46.0	Quasi-peak Value
960MHz-1GHz	54.0	Quasi-peak Value
Above 1GHz	54.0	Average Value
	74.0	Peak Value

Test Setup:

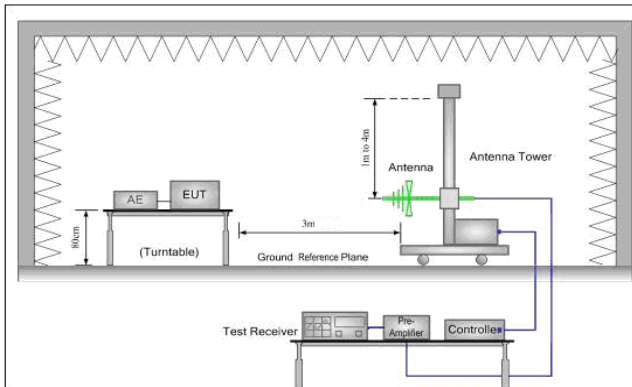


Figure 1. 30MHz to 1GHz

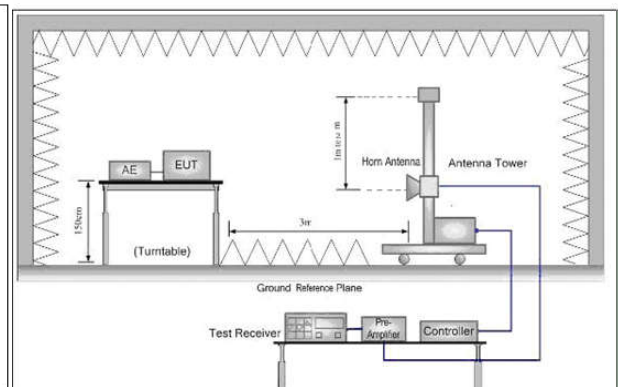


Figure 2. Above 1 GHz

Test Procedure:

Below 1GHz test procedure as below:

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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.

Above 1GHz test procedure as below:

- Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre(Above 18GHz the distance is 1 meter and table is 1.5 metre).
- Test the EUT in the lowest channel , the Highest channel
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.

j. Repeat above procedures until all frequencies measured was complete.

Instruments Used: Refer to section 6 for details

Test Mode: Transmitting mode

Test Results: Pass

Test plot as follows:

Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Premap Factor (dB)	Read Level (dBμV)	Level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Antenna Polaxis	Remark	Test channel
2390	32.53	3.07	44.03	47.29	38.86	74	-35.14	H	PK	Lowest
2390	32.53	3.07	44.03	47.25	38.82	74	-35.18	V	PK	Lowest
2400	32.55	3.07	44.04	78.46	70.04	74	-3.96	H	PK	Lowest
2400	32.55	3.07	44.04	77.69	69.27	74	-4.73	V	PK	Lowest
2483.5	32.71	3.12	44.14	50.03	41.72	74	-32.28	H	PK	Highest
2483.5	32.71	3.12	44.14	47.6	39.29	74	-34.71	V	PK	Highest

Note:

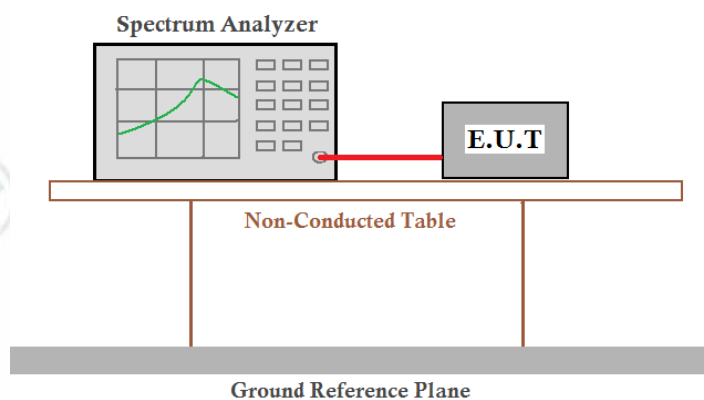
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor

7.4 20dB Bandwidth

Test Requirement: 47 CFR Part 15C Section 15.215
Test Method: ANSI C63.10
Test Setup:



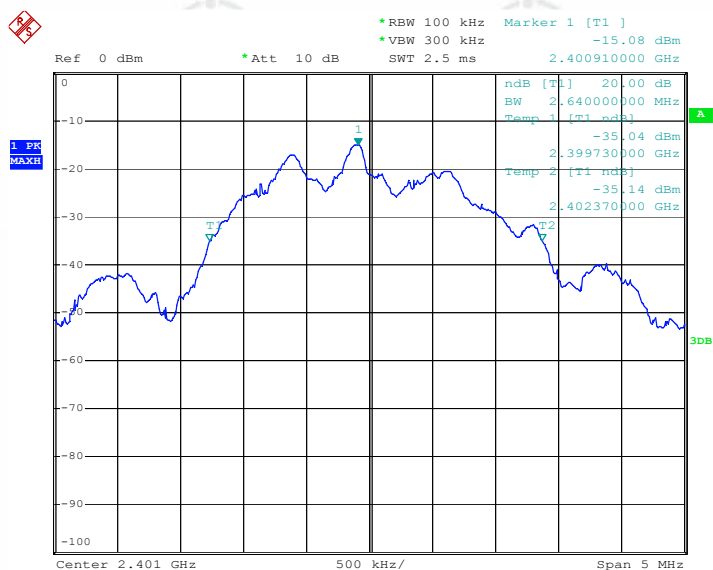
Test Mode: Transmitter mode
Limit: N/A
Instruments Used: Refer to section 6 for details
Test Results: Pass

Measurement Data

Test Channel	20dB bandwidth (MHz)	Results
Lowest	2.64	Pass
Middle	2.38	Pass
Highest	2.41	Pass

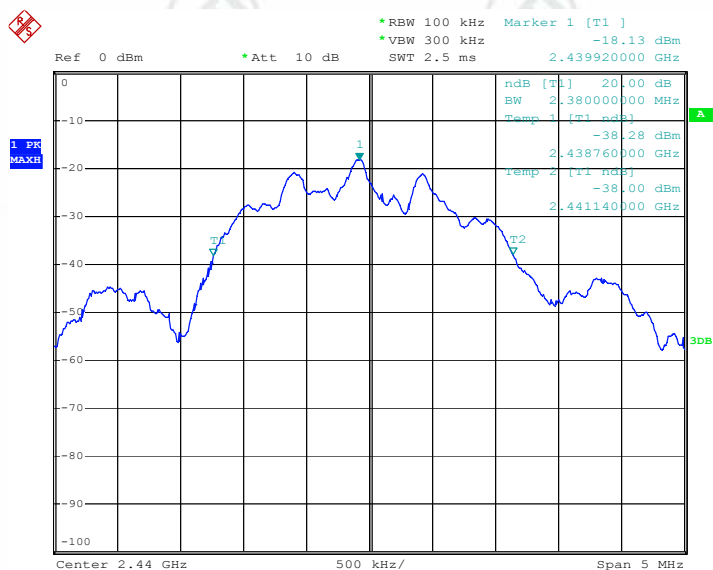
Test plot as follows:

2401Mz



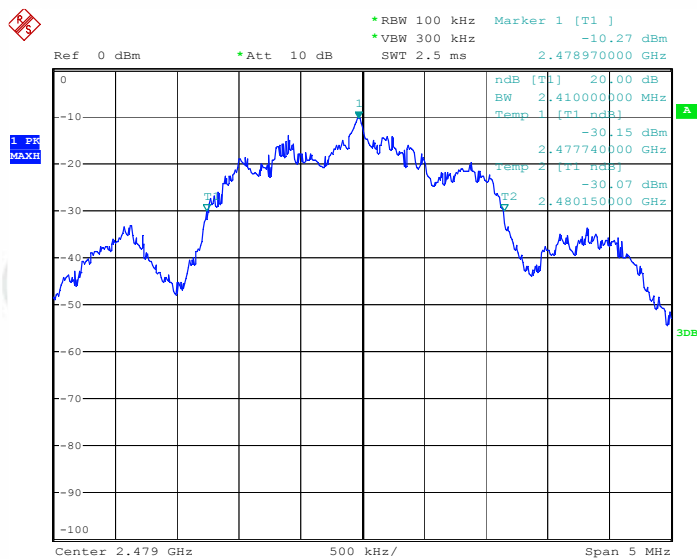
Date: 23.NOV.2017 16:56:34

2440MHz



Date: 23.NOV.2017 16:47:54

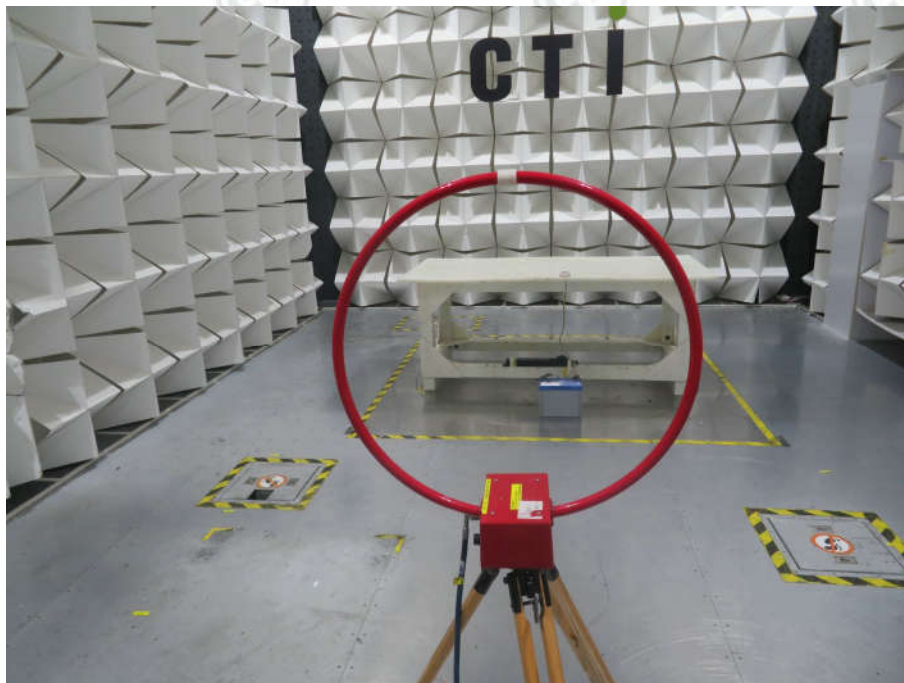
2479MHz



Date: 23.NOV.2017 16:52:34

APPENDIX PHOTOGRAPHS OF TEST SETUP

Test Model No.: C6304NF



Radiated emission Test Setup-1(9KHz-30MHz)



Radiated emission Test Setup-2(30MHz~1GHz)



Radiated spurious emission Test Setup-3(Above 1GHz)

APPENDIX PHOTOGRAPHS OF EUT

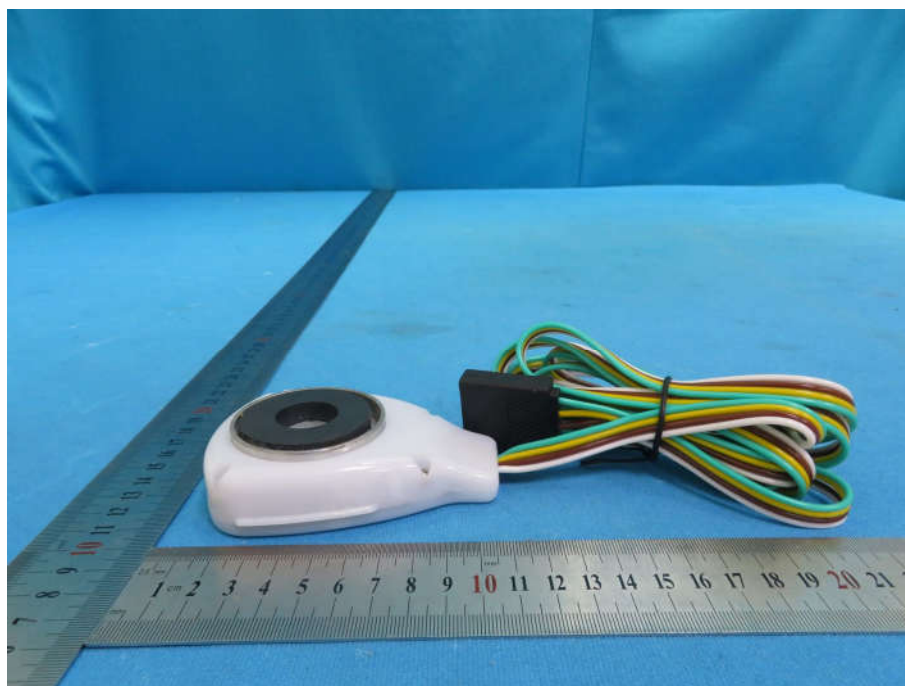
Test mode No.: C6304NF



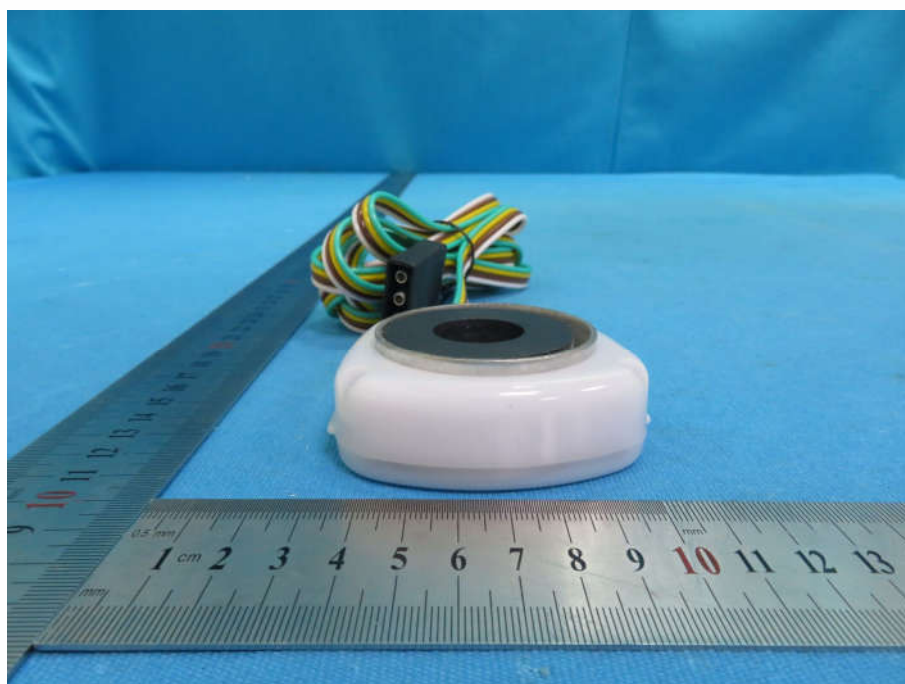
View of Product-1



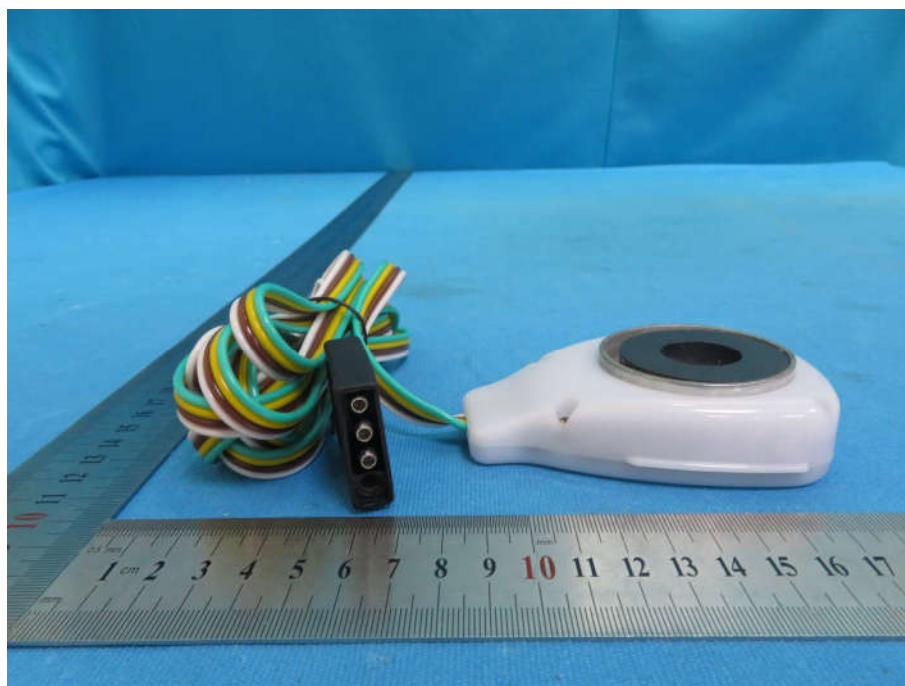
View of Product-2



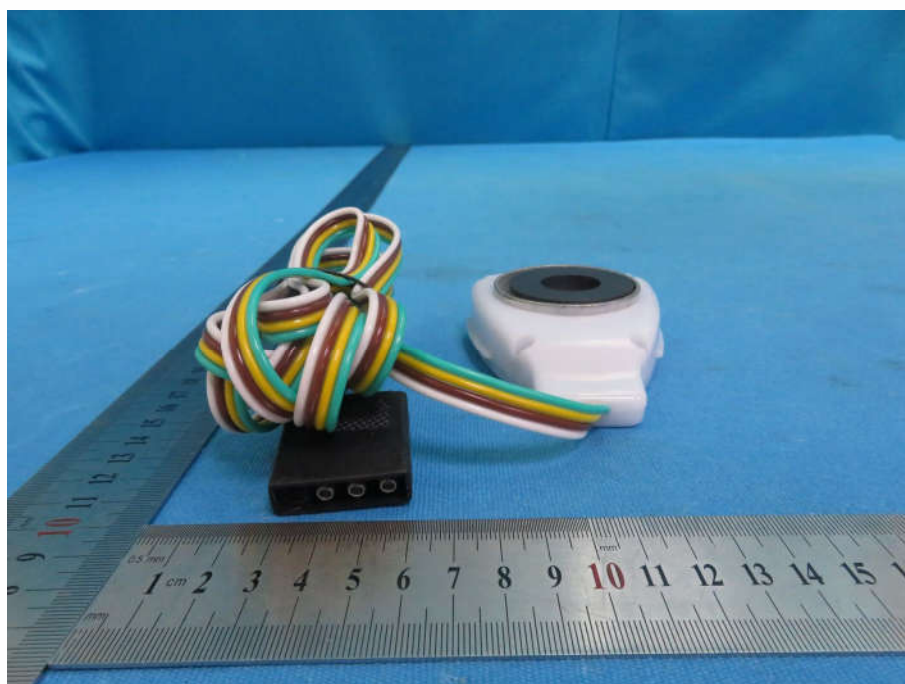
View of Product-3



View of Product-4



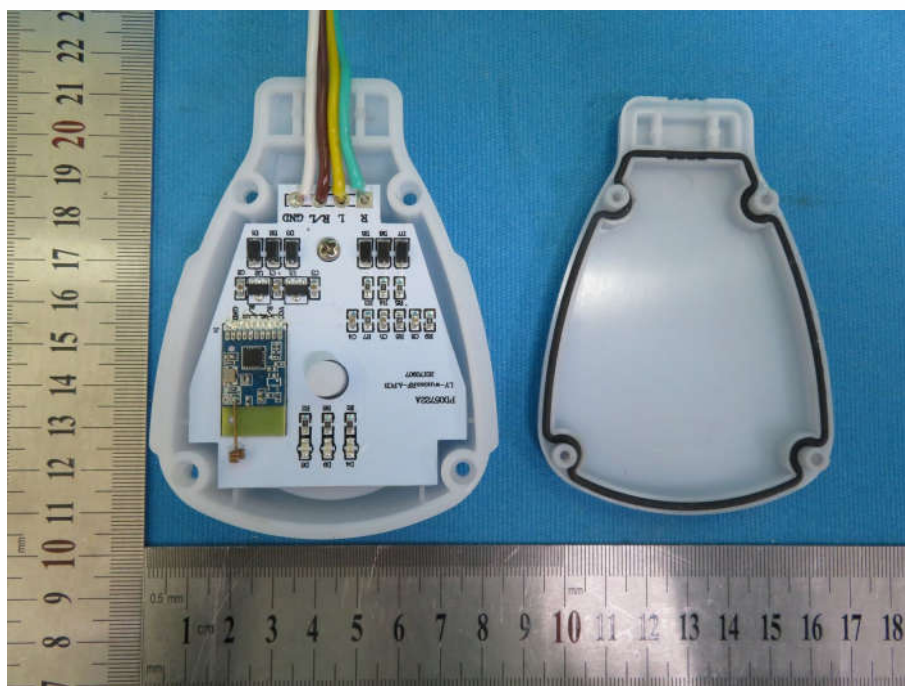
View of Product-5



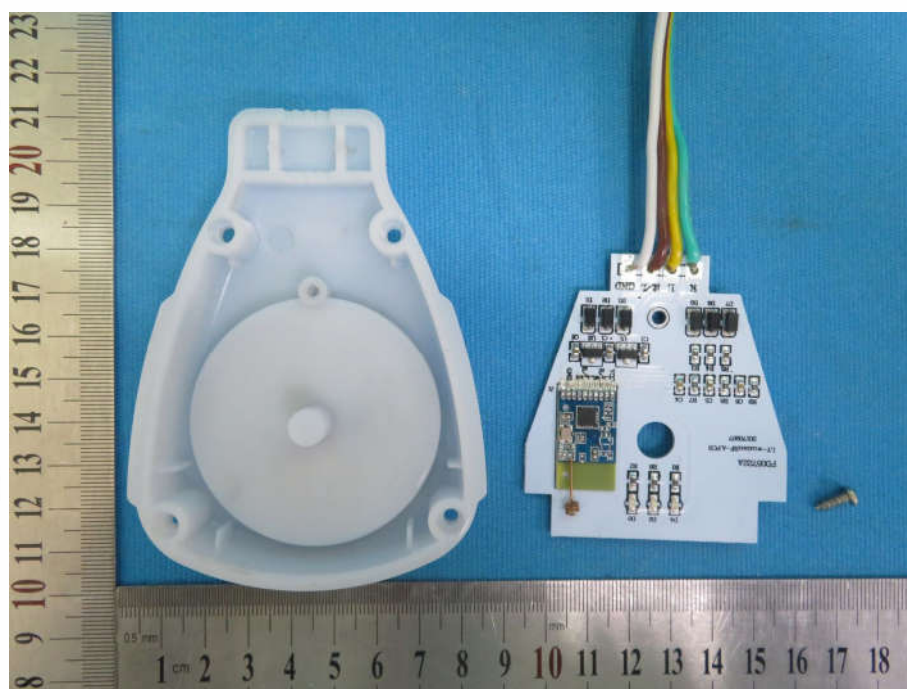
View of Product-6



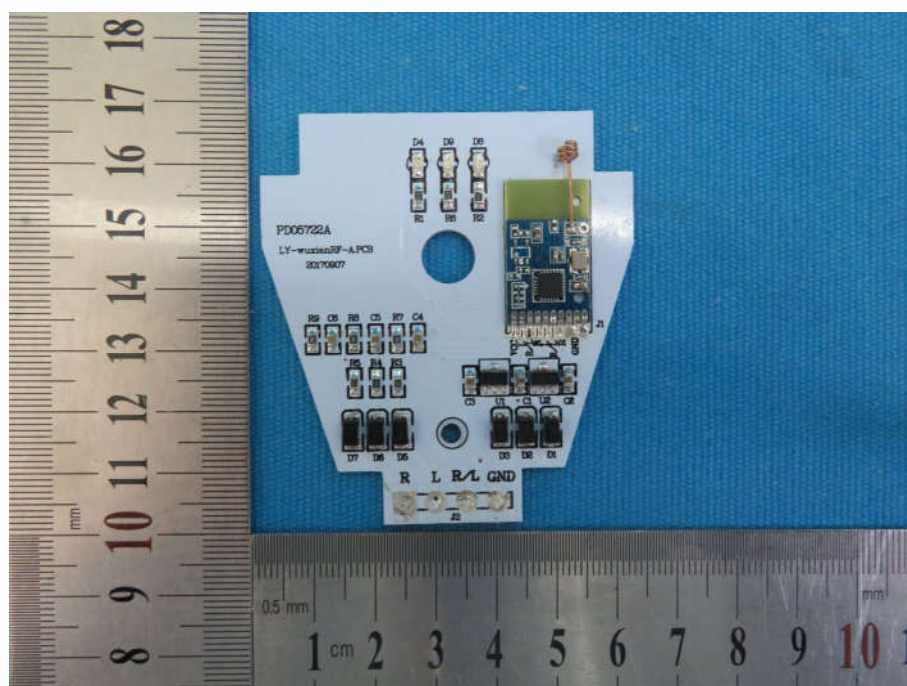
View of Product-7



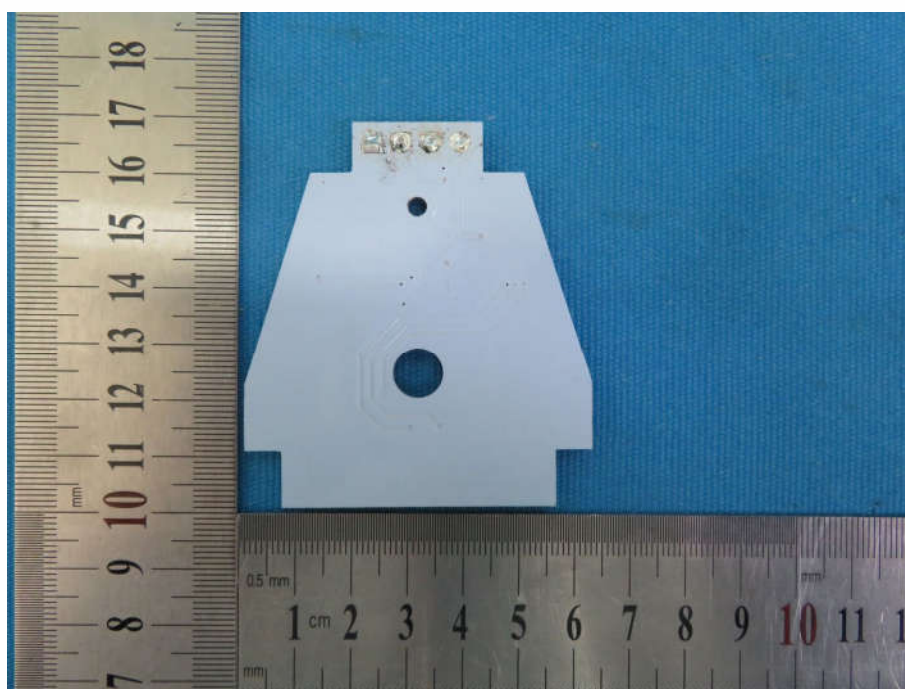
View of Product-8



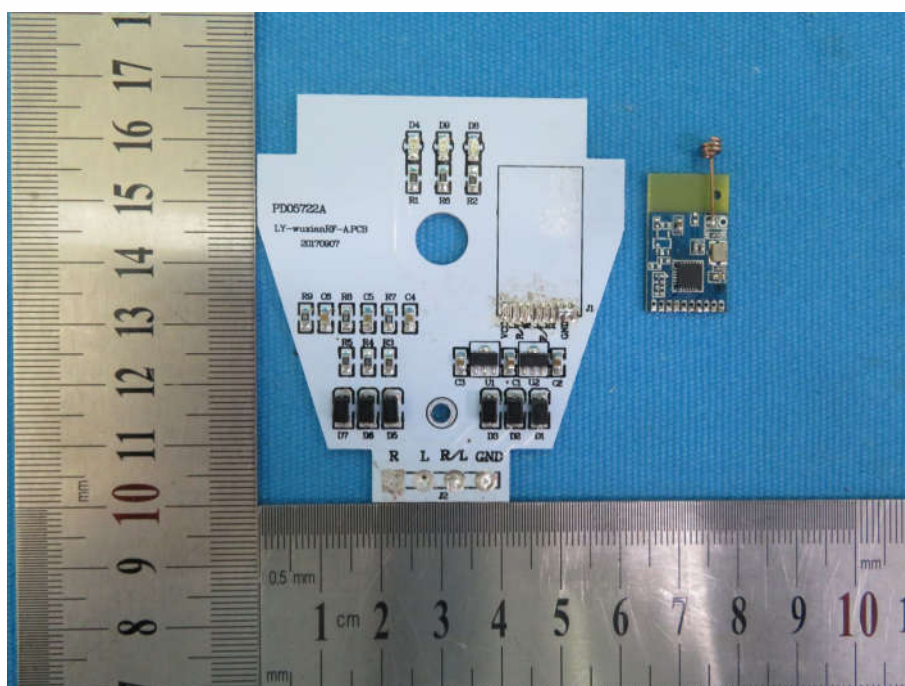
View of Product-9



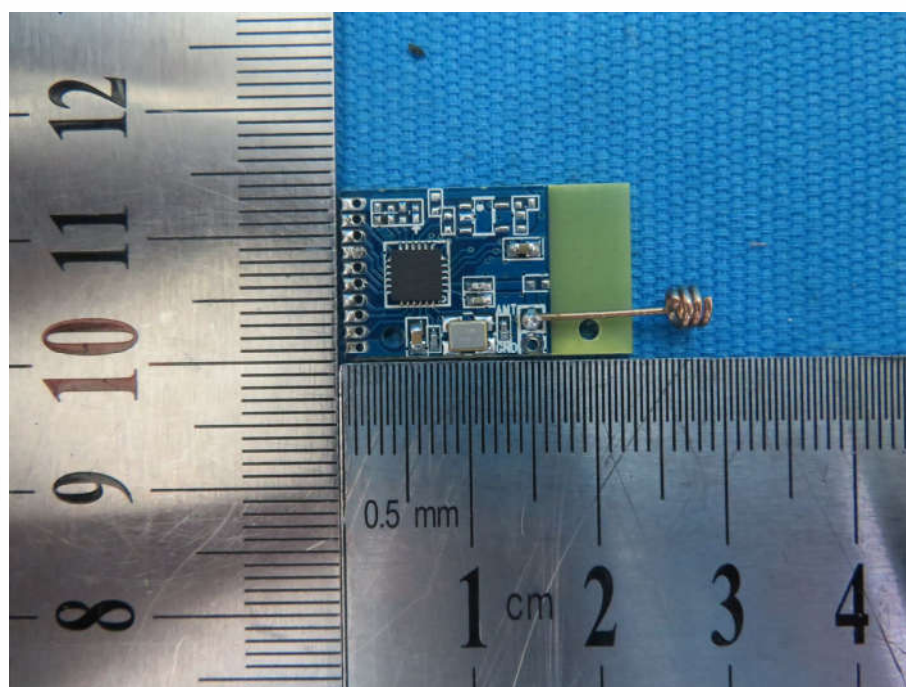
View of Product-10



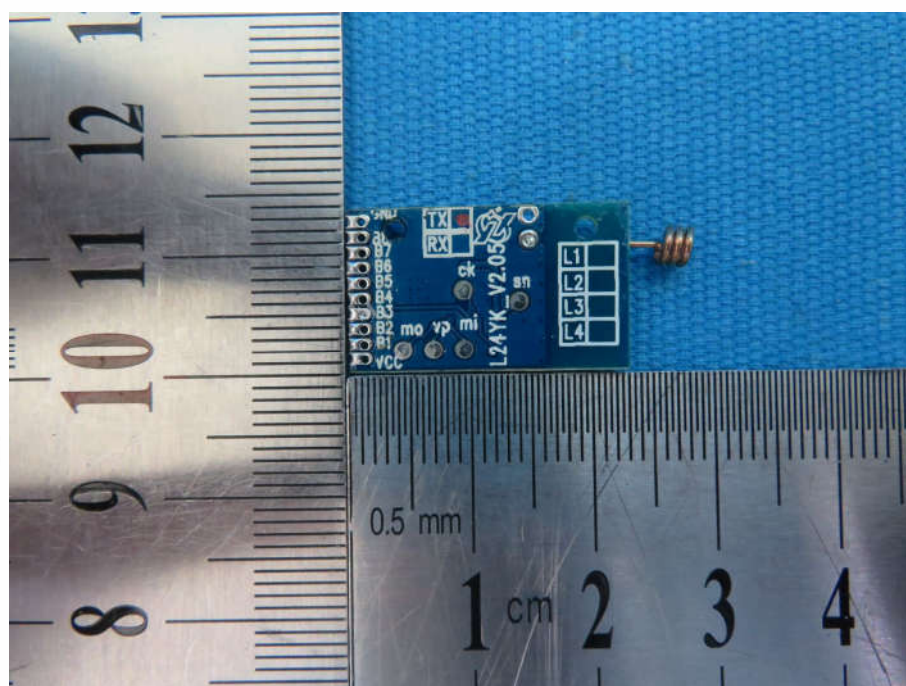
View of Product-11



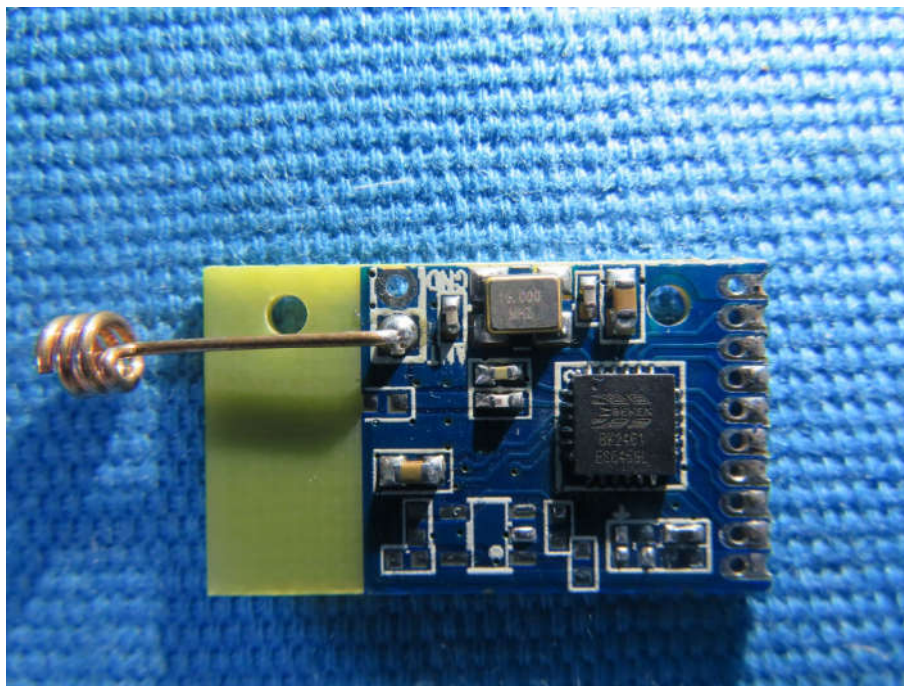
View of Product-12



View of Product-13



View of Product-14



View of Product-15

*** End of Report ***

The test report is effective only with both signature and specialized stamp. The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.