

TEST REPORT

Reference No. : WTS14S0716297E
FCC ID : 2ACV7MU006FT
Applicant : Beijing KiChina Co., Ltd.
Address : Room 302, Building 4, BeiWu New Technology Park,23 BeiWuCun Road,HaiDian District,Beijing,China
Manufacturer : The same as above
Address : The same as above
Product Name : UHF Wireless microphone
Model No. : MU006FT
Standards : FCC CFR47 Part 74
Date of Receipt sample..... : Jul.25, 2014
Date of Test..... : Jul.26~ Aug.06, 2014
Date of Issue : Aug.07, 2014
Test Result : **Pass**

Remarks:

The 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.

Prepared By:

Waltek Services (Shenzhen) Co., Ltd.

Address: 1/F., Fukangtai Building, West Baima Road, Songgang Street, Baoan District, Shenzhen, Guangdong, China

Testing location: 1/F., Fukangtai Building, West Baima Road, Songgang Street, Baoan District, Shenzhen, Guangdong, China

Tel :+86-755-83551033

Fax:+86-755-83552400

Compiled by:



Zero Zhou / Project Engineer

Approved by:



Philo Zhong / Manager

2 Test Summary

Test Items	Test Requirement	Test Method	Result
RF Output Power	74.861(e)(1)(ii)	TIA/EIA-603-C-2004	PASS
Modulation Characteristics	2.1047(a)	TIA/EIA-603-C-2004	PASS
Occupied Bandwidth	2.1049(c)(1)	TIA/EIA-603-C-2004	PASS
Radiated Emissions	2.1053 & 74.861(e)(6)	TIA/EIA-603-C-2004	PASS
Spurious emissions at antenna terminals	2.1051	TIA/EIA-603-C-2004	PASS
Frequencies Stability	2.1055(a)(1)	TIA/EIA-603-C-2004	PASS
Remark: PASS means that the test results complies with related requirements. N/A means that the test is not applicable for the EUT.			

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4 General Information

4.1 General Description of E.U.T.

Product Name	: UHF Wireless microphone
Model No.	: MU006FT
Differences describe	: Only the appearance is different.
Operation Frequency	: 614MHz-698MHz
The Lowest Oscillator	: 24 MHz
Antenna installation	: PCB Printed Antenna

4.2 Details of E.U.T.

Technical Data: : DC 3.7V Power supply by battery

4.3 Test Facility

The test facility has a test site registered with the following organizations:

- **IC – Registration No.: 7760A-1**

Waltek Services(Shenzhen) Co., Ltd. has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files.

Registration No.:7760A-1, July 12, 2012.

- **FCC – Registration No.: 880581**

Waltek Services(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 880581, April 29, 2014.

4.4 Test Location

All the tests were performed at:

Waltek Services(Shenzhen) Co., Ltd. at 1/F, Fukangtai Building, West Baima Rd., Songgang Street, Baoan District, Shenzhen, China

5 Equipment Used during Test

5.1 Equipments List

Conducted Emissions						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1.	EMI Test Receiver	R&S	ESCI	100947	Sep.18,2013	Sep.17,2014
2.	LISN	R&S	ENV216	101215	Nov. 29,2013	Nov. 28,2014
3.	Cable	Top	TYPE16(3.5M)	-	Sep.18,2013	Sep.17,2014
3m Semi-anechoic Chamber for Radiation Emissions						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	EMC Analyzer	Agilent	E7405A	MY45114943	Sep.18,2013	Sep.17,2014
2	Active Loop Antenna	Beijing Dazhi	ZN30900A	-	Sep.18,2013	Sep.17,2014
3	Trilog Broadband Antenna	SCHWARZBECK	VULB9163	336	Apr.19,2014	Apr.18,2015
4	Coaxial Cable (below 1GHz)	Top	TYPE16(13M)	-	Sep.18,2013	Sep.17,2014
5	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	667	Apr.19,2014	Apr.18,2015
6	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9170	335	Apr.19,2014	Apr.18,2015
7	Broadband Preamplifier	COMPLIANCE DIRECTION	PAP-1G18	2004	Mar.17,2014	Mar.16,2015
8	Coaxial Cable (above 1GHz)	Top	1GHz-25GHz	EW02014-7	Apr.10,2014	Apr.09,2015
RF Conducted Testing						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1.	EMC Analyzer	R&S	ESCI	101155	Sep.18,2013	Sep.17,2014
2.	Humidity Chamber	GF	GTH-225-40-1P	IAA061213	May 16,2014	May 15,2015
3.	DC Power Supply	EVERFINE	WY305	1004002	Apr.11,2014	Apr.10,2015
4.	Modulation Analyzer	HP	8920B	-	Apr.11,2014	Apr.10,2015

5.2 Description of Support Units

Equipment	Manufacturer	Model No.	Series No.
MacBook Air	APPLE	A1465 (EW03039-1)	C17KTQDNF5N7

5.3 Measurement Uncertainty

Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-6}$
RF Power	± 1.0 dB
RF Power Density	± 2.2 dB
Radiated Spurious Emissions test	± 5.03 dB (Bilog antenna 30M~1000MHz)
	± 4.74 dB (Horn antenna 1000M~25000MHz)

5.4 Test Equipment Calibration

All the test equipments used are valid and calibrated by CEPREI Certification Body that address is No.110 Dongguan Zhuang RD. Guangzhou, P.R.China.

6 RF Output Power

Test requirement: FCC CFR47 Part 74 Section 74.861(e)(1)(ii)

Test method: Based on TIA/EIA-603-C-2004

Limit: According to Part 74.861(e)(1)(ii), the output power shall not exceed 250mW (23.98 dBm).

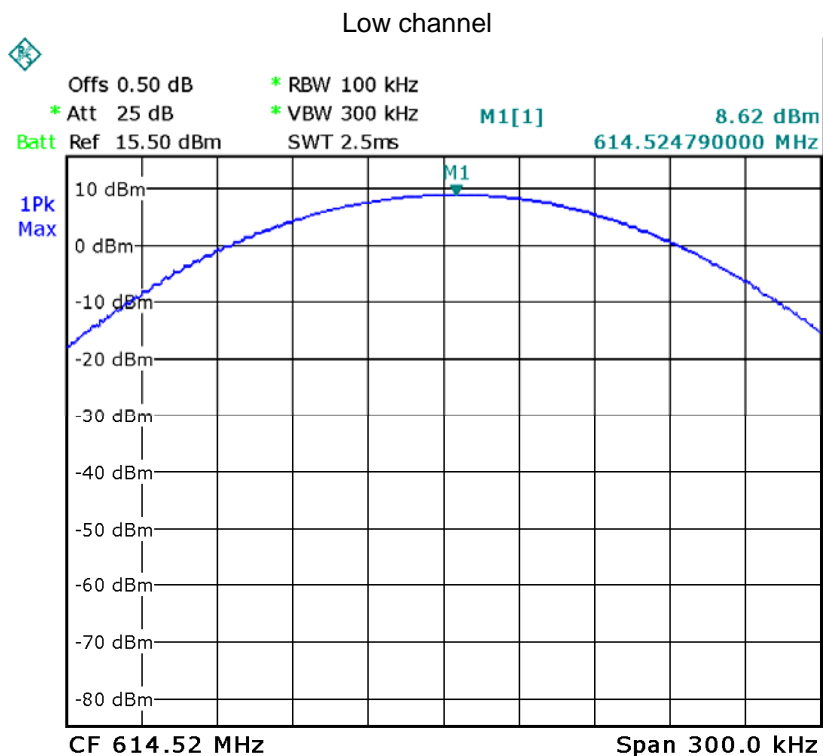
6.1 Test Procedure

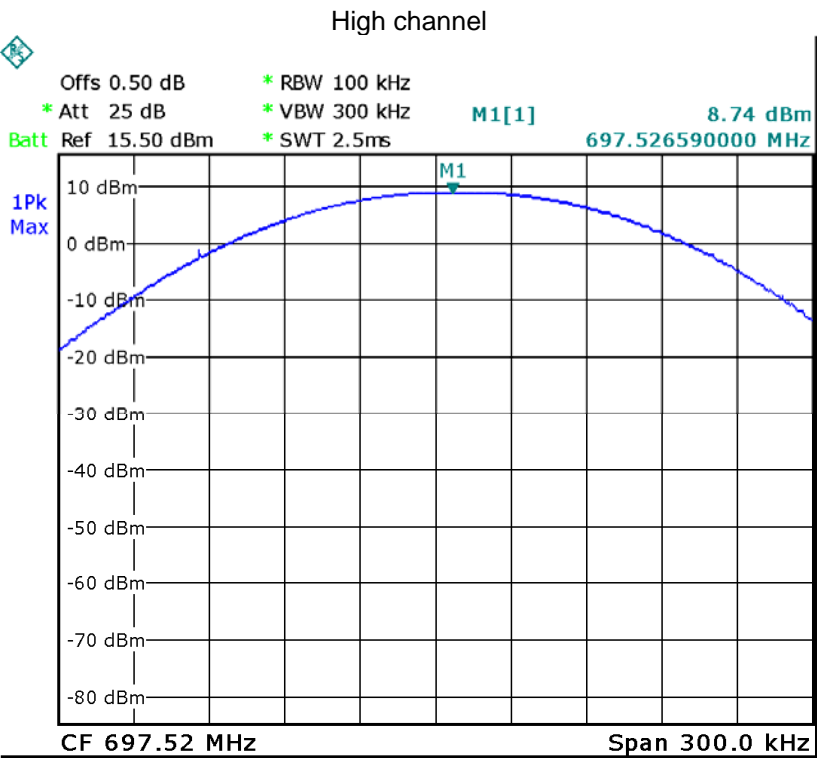
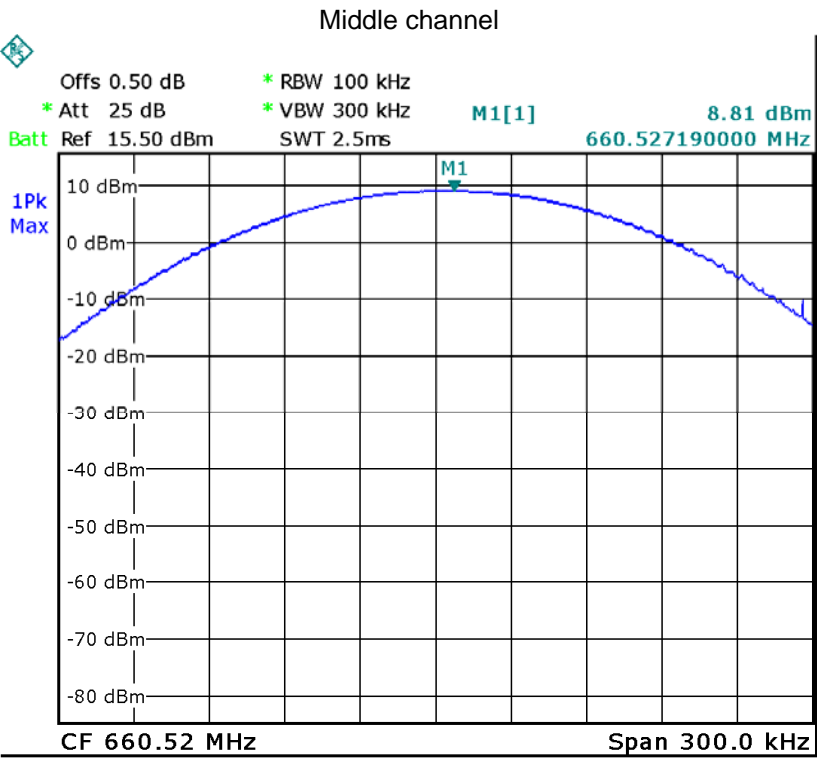
The maximum peak output power was measured with a spectrum analyzer connected to the antenna terminal (conducted measurement) while EUT was operating in normal situation.

6.2 Test result

Frequency (MHz)	RF Output Power (dBm)	Limit (dBm)	Result
614.52	8.62	23.98	PASS
660.52	8.81	23.98	PASS
697.52	8.74	23.98	PASS

Please refer to following plot:



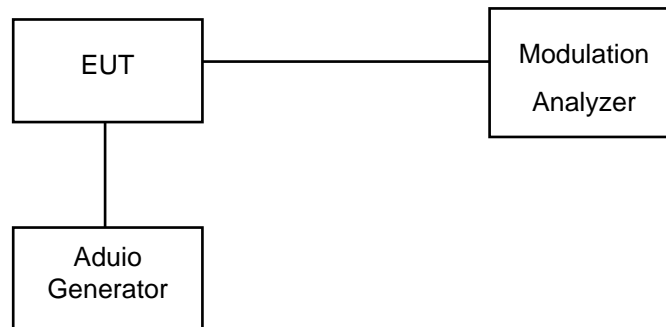


7 Modulation Characteristics

Test requirement:	FCC CFR47 Part 2 Section 2.1047(a)
Test method:	Based on TIA/EIA-603-C-2004
Requirement:	According to Part 2.1047(a), for Voice Modulated Communication Equipment, the frequency response of the audio modulating circuit over a range of 100Hz to 5000Hz shall be measured.

7.1 Test Procedure

(a) Test Configuration



(b) Audio Frequency Response:

- 1) Apply a 1000 Hz tone and adjust the audio frequency generator to produce 20% of the rated system deviation.
- 2) Set the test receiver to measure rms deviation and record the deviation reading as DEV_{REF} .
- 3) Set the audio frequency generator to the desired test frequency between 100 Hz and 5000 Hz.
- 4) Record the test receiver deviation reading as DEV_{FREQ} .
- 5) Calculate the audio frequency response at the present frequency as:
$$\text{audio frequency response} = 20\lg(DEV_{FREQ} / DEV_{REF})$$
- 6) Repeat steps 4) through 5) for all the desired test frequencies.

(c) Modulation Limiting:

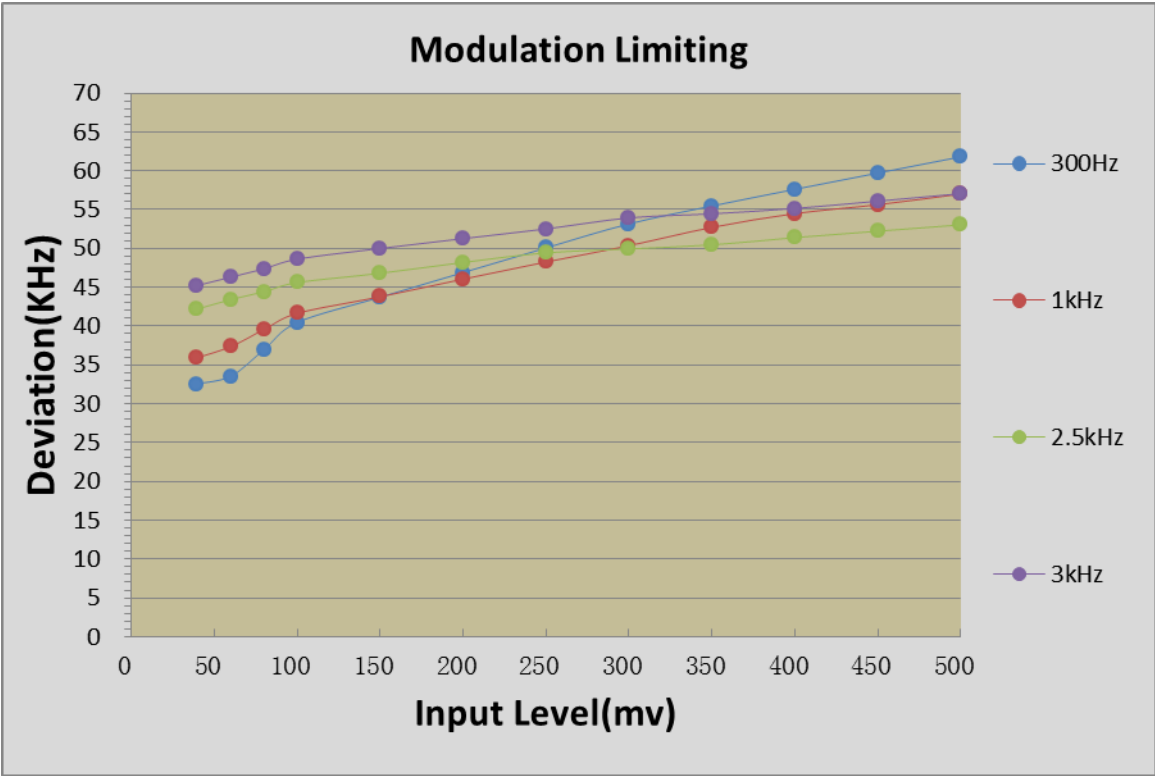
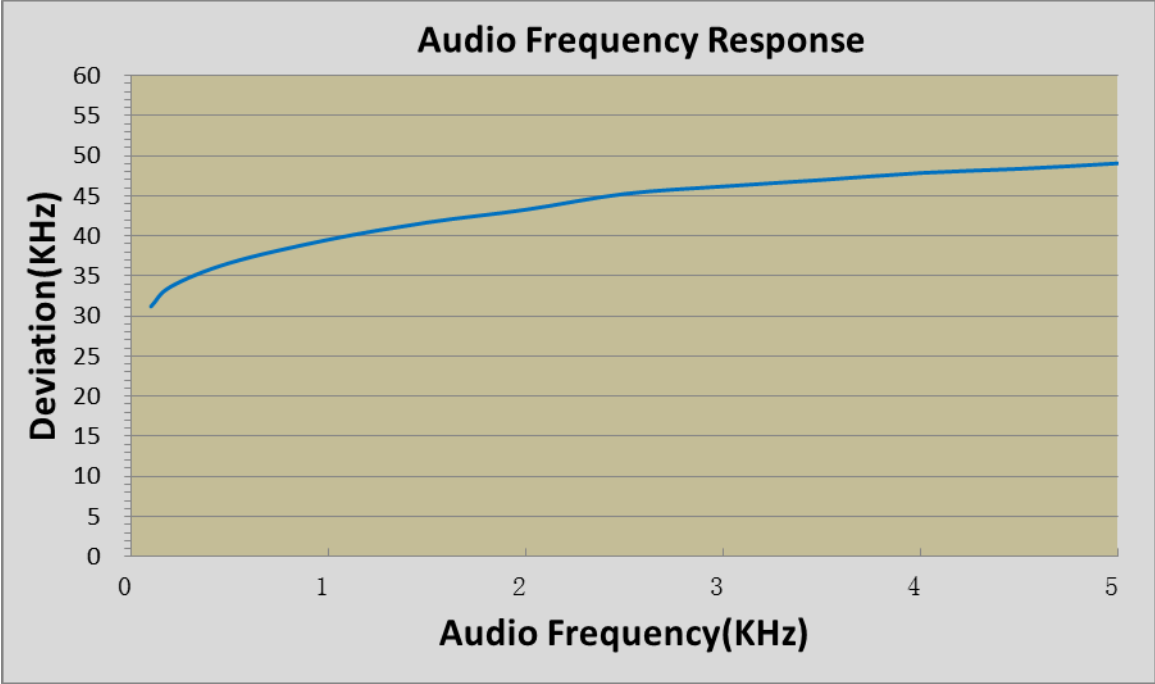
- 1) Apply a 1000 Hz modulating signal to the transmitter from the audio frequency generator, and adjust the level to obtain 60% of full rated system deviation.
- 2) Measure both the instantaneous and steady-state deviation at and after the time of increasing the audio input level.
- 3) With the level from the audio frequency generator held constant at the level obtained in step e), slowly vary the audio frequency from 300 Hz to 3000 Hz and observe the steady-state deviation. Record the maximum deviation.
- 4) Set the test receiver to measure peak negative deviation and repeat steps 1) through 3).
- 5) The values recorded in steps 3) and 4) are the modulation limiting.

7.2 Test Result

The test data of modulation characteristic is showing as below:

Audio Frequency Response

Middle Channel



8 Occupied Bandwidth of Emission

Test requirement:	FCC CFR47 Part 2 Section 2.1049©(1)
Test method:	Based on TIA/EIA-603-C-2004
Limit:	According to FCC 74.861 (e)(5), the frequency emission bandwidth shall not exceed 200 kHz.

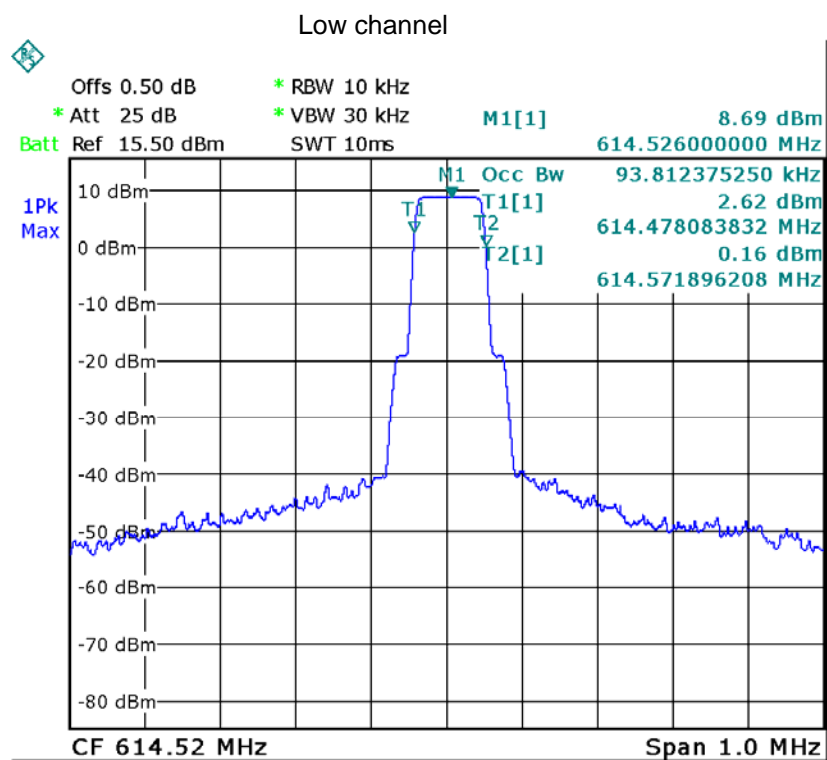
8.1 Test Procedure

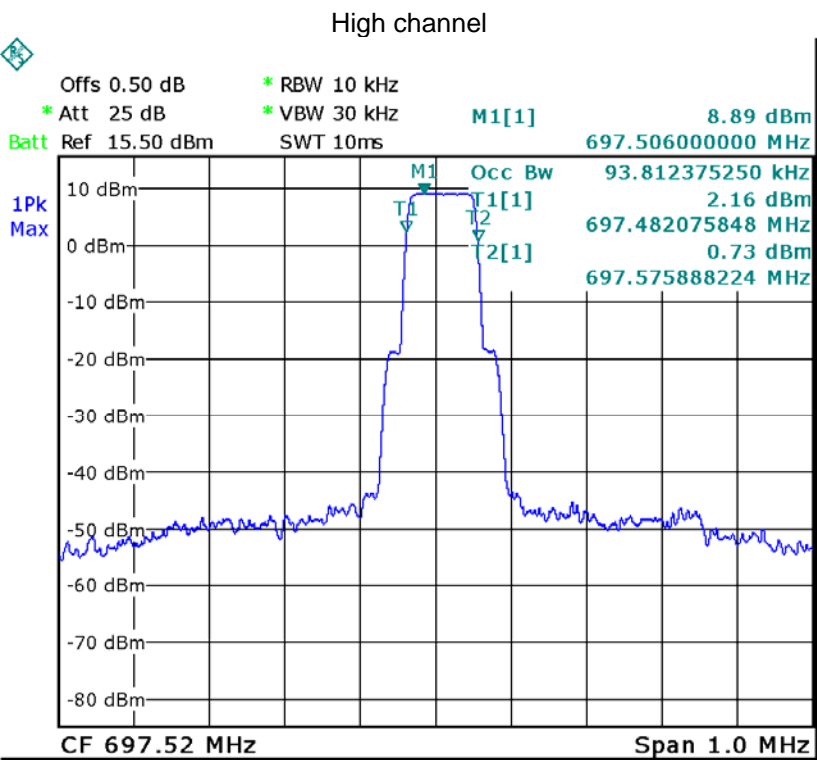
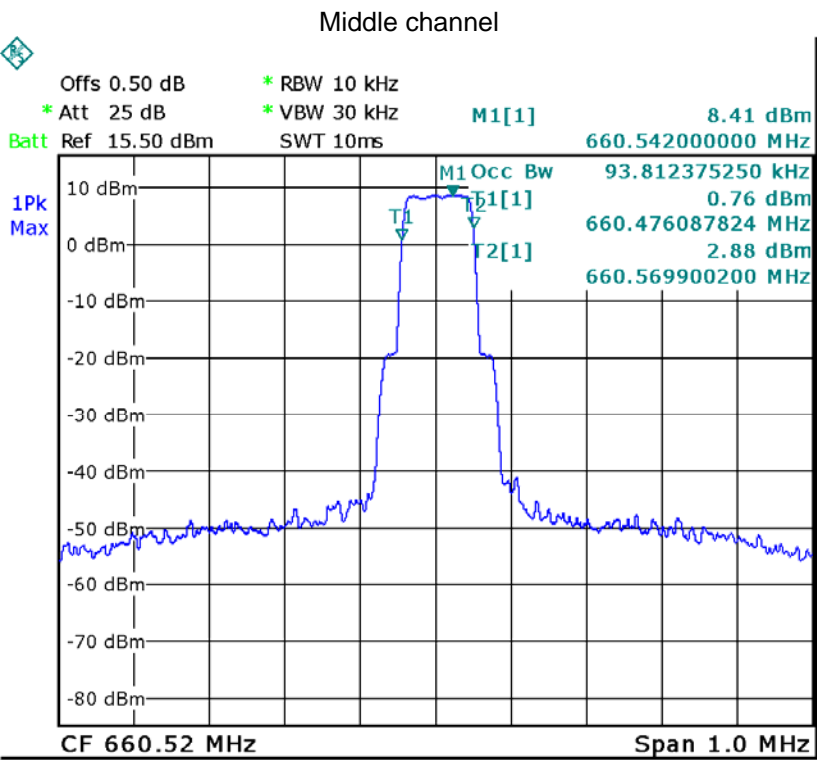
1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Turn on the EUT and set it to any one convenient frequency within its operating range.

8.2 Test Result

Frequency (MHz)	99% Bandwidth (kHz)	Limit (kHz)	Result
614.52	93.81	200	PASS
660.52	93.81	200	PASS
697.52	93.81	200	PASS

Test Plot:





9 Spurious Emissions at Antenna Terminals

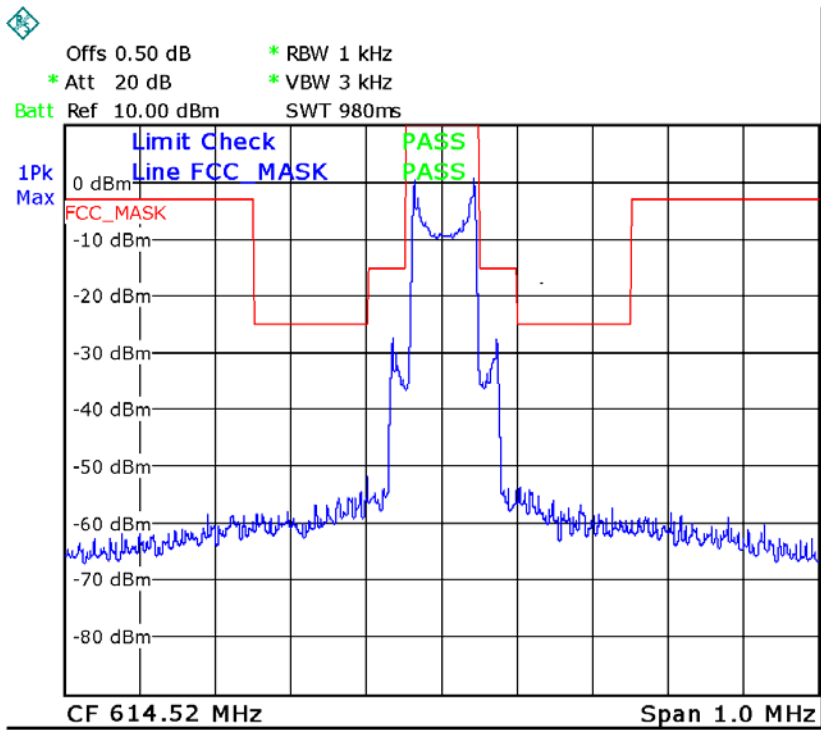
Test requirement:	FCC CFR47 Part 2 Section 2.1053
Test method:	Based on TIA/EIA-603-C-2004
Limit:	<p>According to Part 74.861 (e)(6), the mean power of emissions shall be attenuated below the mean output power of the transmitter in accordance with the following schedule:</p> <p>(i) on any frequency removed from the operating frequency by more than 50 percent up to and including 100 percent of the authorized bandwidth: at least 25 dB.</p> <p>(ii) on any frequency removed from the operating frequency by more than 100 percent up to and including 250 percent of the authorized bandwidth: at least 35 dB.</p> <p>(iii) on any frequency removed from the operating frequency by more than 250 percent up to and the authorized bandwidth shall be attenuated below the un-modulated carrier by at least $43 + 10 \log$ (output power in watts)dB.</p>

9.1 Test Procedure

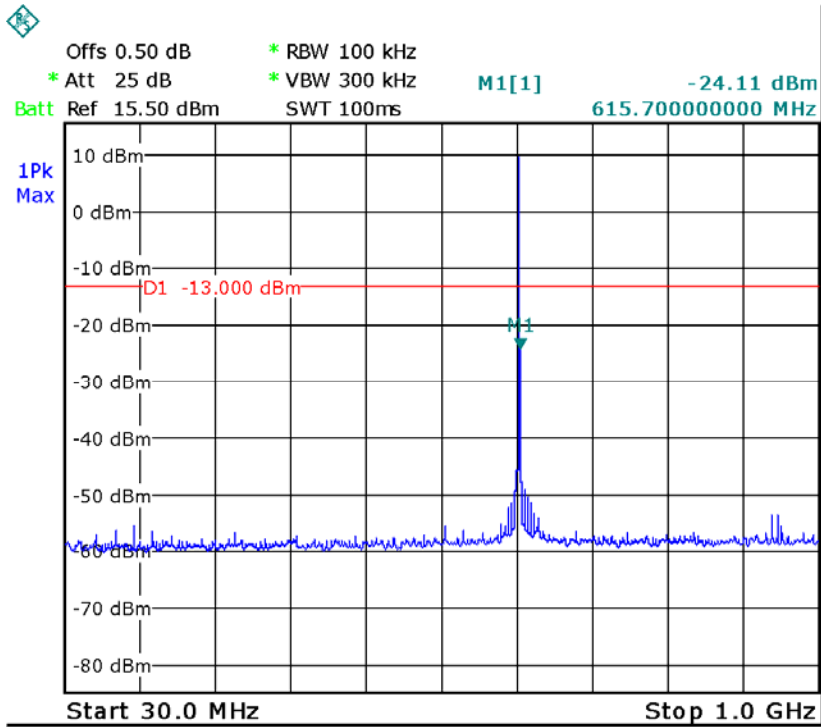
1. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
2. Set the SA on Max-Hold Mode, and then keep the EUT in transmitting mode. Record all the signals from each channel until each one has been recorded.
3. Set the SA on View mode and then plot the result on SA screen.
4. Repeat above procedures until all frequencies measured were complete.

9.2 Test Data

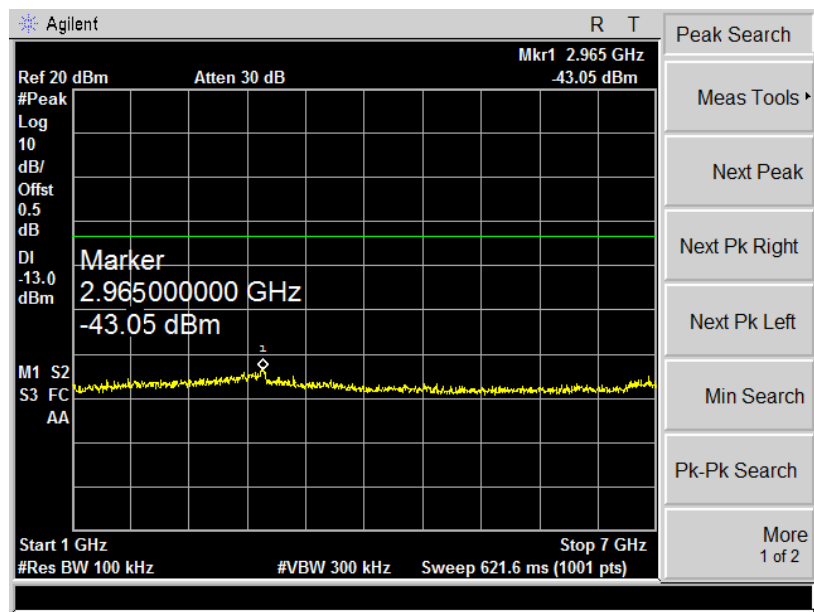
Emission Mask Low Channel



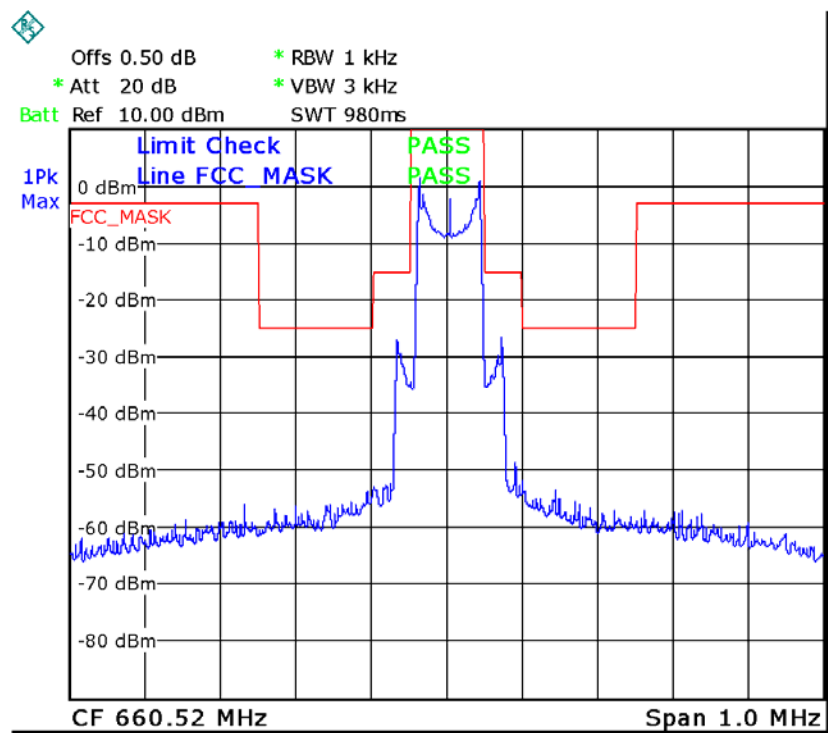
Low channel 30M-1G



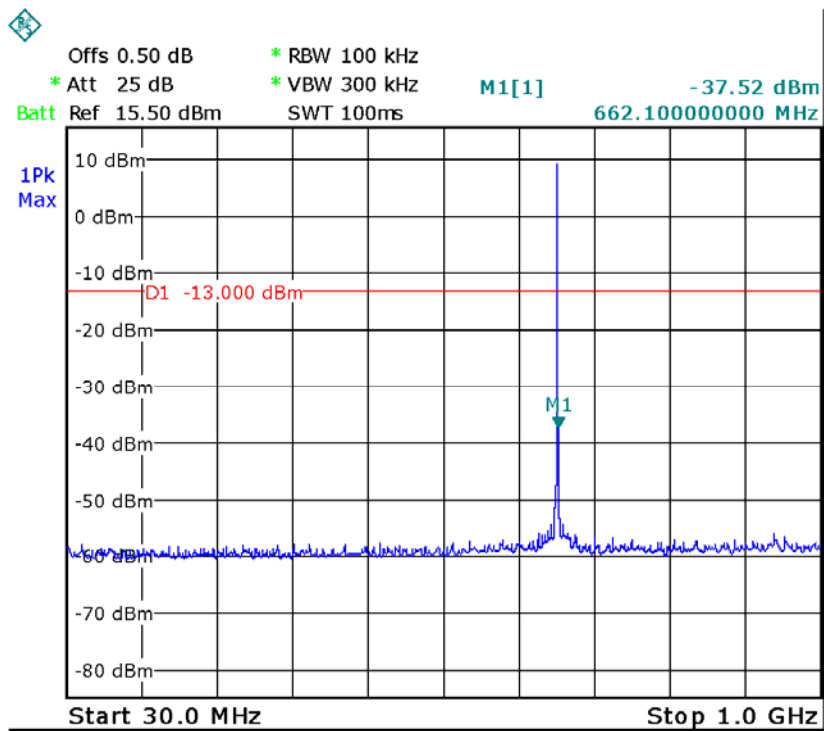
Low channel 1G-7G



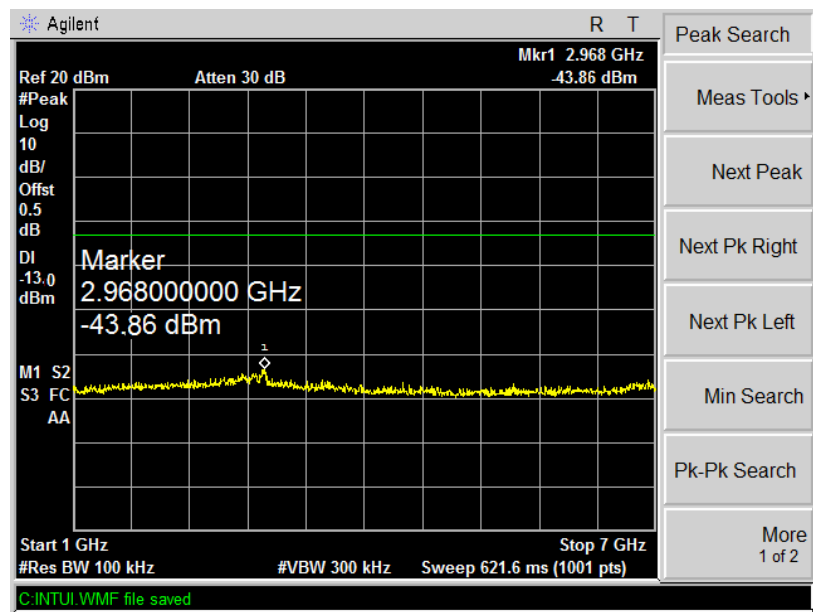
Emission Mask Middle Channel



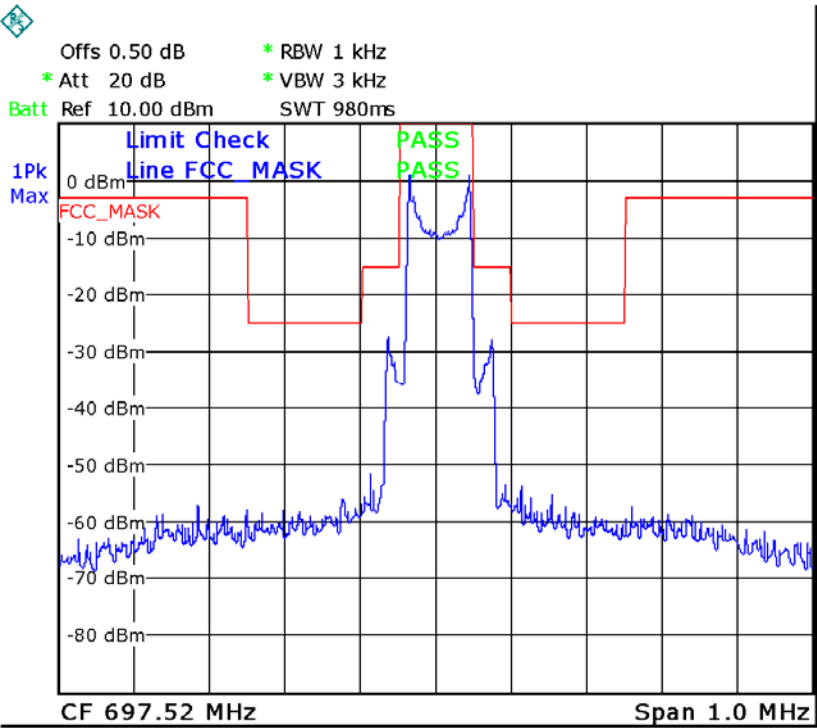
Middle channel 30M-1G



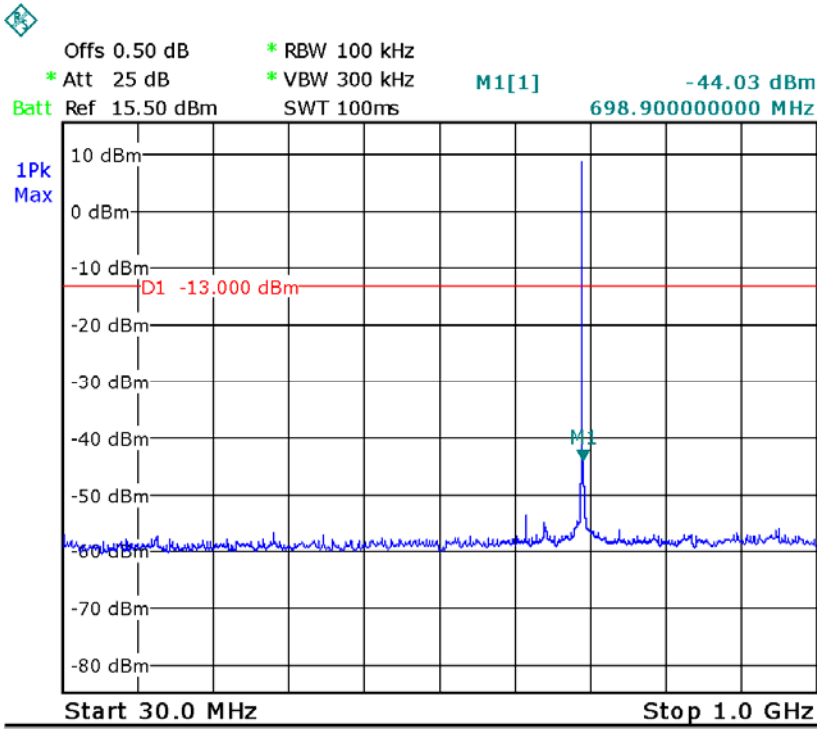
Middle channel 1G-7G



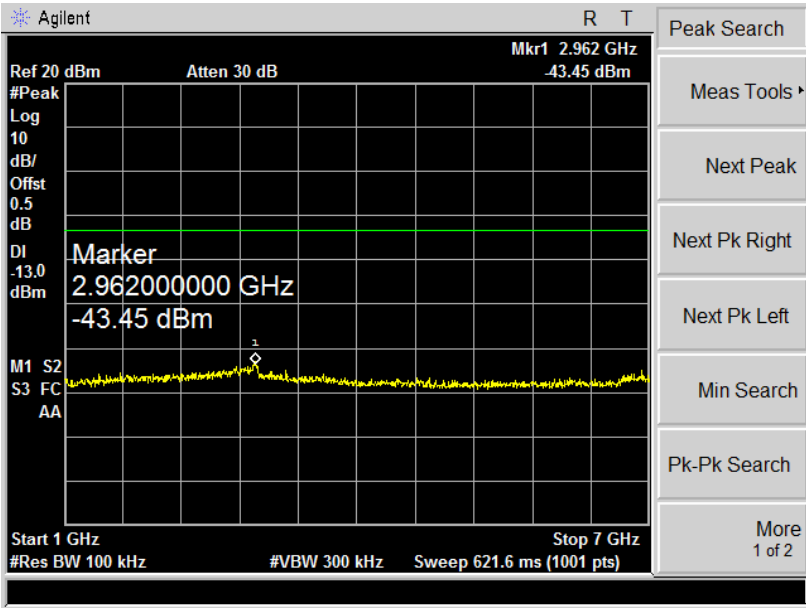
Emission Mask High Channel



Middle channel 30M-1G



Middle channel 1G-7G



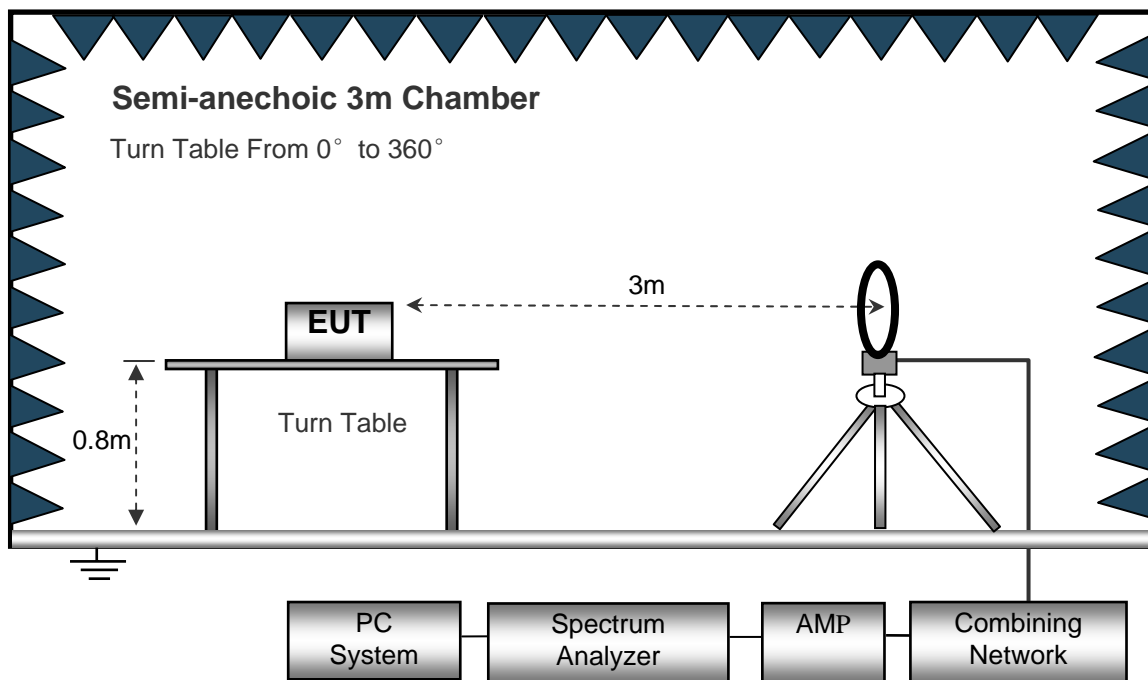
10 Radiated Emission Test

Test requirement:	FCC CFR47 Part 2 Section 2.1053
Test method:	Based on TIA/EIA-603-C-2004
Limit:	<p>According to Part 74.861 (e)(6), the mean power of emissions shall be attenuated below the mean output power of the transmitter in accordance with the following schedule:</p> <p>(i) on any frequency removed from the operating frequency by more than 50 percent up to and including 100 percent of the authorized bandwidth: at least 25 dB.</p> <p>(ii) on any frequency removed from the operating frequency by more than 100 percent up to and including 250 percent of the authorized bandwidth: at least 35 dB.</p> <p>(iii) on any frequency removed from the operating frequency by more than 250 percent up to and the authorized bandwidth shall be attenuated below the un-modulated carrier by at least $43 + 10 \log$ (output power in watts)dB.</p>

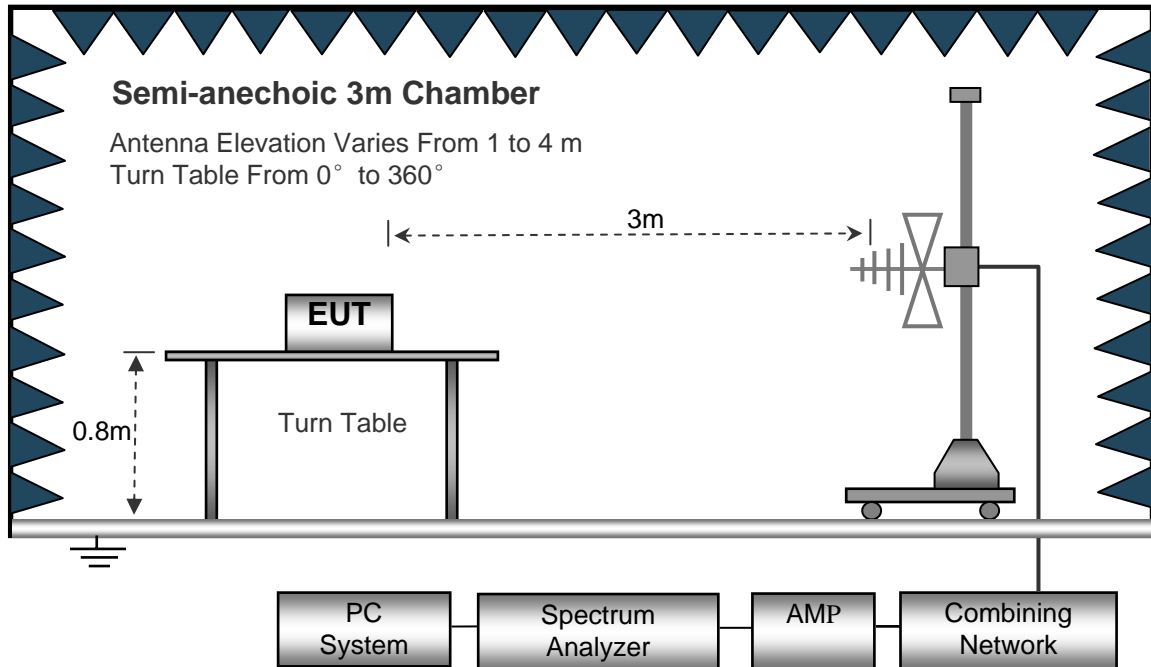
10.1 EUT Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.4:2003.

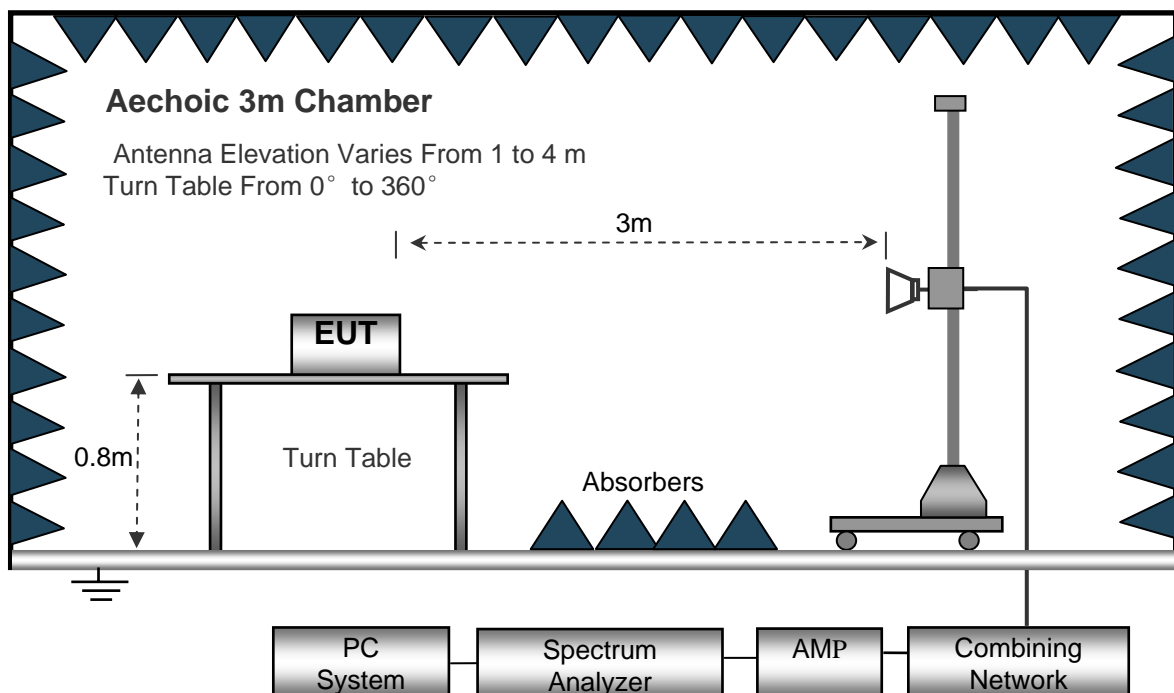
The diagram below shows the test setup that is utilized to make the measurements for emission from 9 KHz to 30 MHz Emissions.



The diagram below shows the test setup that is utilized to make the measurements for emission from 30 MHz to 1 GHz Emissions.



The diagram below shows the test setup that is utilized to make the measurements for emission above 1GHz Emissions.



10.2 Spectrum Analyzer Setup

According to FCC Part15 Rules, the system was tested 24MHz to 7000MHz.

9kHz ~ 30MHz

Start Frequency9kHz
Stop Frequency30MHz
Sweep SpeedAuto
IF Bandwidth.....10KHz
Video Bandwidth.....10KHz
Resolution Bandwidth10KHz

30MHz ~ 1GHz

Start Frequency30 MHz
Stop Frequency.....1000MHz
Sweep Speed.....Auto
IF Bandwidth120 KHz
Video Bandwidth300KHz
Quasi-Peak Adapter Bandwidth.....120 KHz
Quasi-Peak Adapter ModeNormal
Resolution Bandwidth100KHz

Above 1GHz

Start Frequency1000 MHz
Stop Frequency.....7000MHz
Sweep Speed.....Auto
IF Bandwidth120 KHz
Video Bandwidth3MHz
Quasi-Peak Adapter Bandwidth.....120 KHz
Quasi-Peak Adapter ModeNormal
Resolution Bandwidth1MHz

10.3 Test Procedure

1. Place the transmitter to be tested on the turntable in the standard test site. The transmitter is Transmitting into a non-radiating load, which is placed on the turntable.
2. The output of the antenna was connected to the measuring receiver and a peak detector was used for the measurement as indicated on the report.
3. The transmitter was switched on; if possible, without the modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.
4. The test antenna shall be raised and Lowed through the specified range of height until the measuring receiver detects a maximum signal level.
5. The transmitter shall than be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.

6. The test antenna shall be raised and Lowered again through the specified range of height until the measuring receiver detects a maximum signal level.
7. The maximum signal level detected by the measuring receiver shall be noted.
8. The measurement shall be repeated with the test antenna set to horizontal polarization.
9. Replace the antenna with a proper antenna (substitution antenna).
10. The substitution antenna shall be oriented for vertical polarization and, if necessary, the length of the substitution antenna shall be adjusted to correspond to the frequency of transmitting.
11. The substitution antenna shall be connected to a calibrated signal generator.
12. If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
13. The test antenna shall be raised and Lowered through the specified range of the height to ensure that the maximum signal is received.
14. The input signal to substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuation setting of the measuring receiver.
15. The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
16. The measurement shall be repeated with the test antenna and the substitution antenna oriented for horizontal polarization.
17. The radiation emission was tested under 3-axes(X,Y,Z) position(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand),After pre-test, It was found that the worse radiation emission was get at the X position. So the data shown was the X position only.
18. The EUT was under working mode during the final qualification test and the configuration was used to represent the worst case results.

10.4 Test Result

Frequency (MHz)	Detector	Ant. Pol	Antenna Height (m)	Turntable Angle (°)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Low Channel:614.52MHz							
830.22	Peak	H	1.24	118.16	-52.43	-13.00	-39.43
830.22	Peak	V	1.64	307.23	-55.76	-13.00	-42.76
1229.04	Peak	H	1.63	288.66	-48.14	-13.00	-35.14
1229.04	Peak	V	1.44	136.75	-47.89	-13.00	-34.89
1843.56	Peak	H	1.65	11.21	-51.05	-13.00	-38.05
1843.56	Peak	V	1.23	294.88	-52.76	-13.00	-39.76
2458.08	Peak	H	1.86	23.02	-51.05	-13.00	-38.05
2458.08	Peak	V	1.64	33.43	-52.76	-13.00	-39.76
Middle Channel:660.52MHz							
830.22	Peak	H	1.26	115.72	-52.75	-13.00	-39.75
830.22	Peak	V	1.96	261.77	-55.15	-13.00	-42.15
1321.04	Peak	H	1.86	183.94	-48.54	-13.00	-35.54
1321.04	Peak	V	1.14	359.76	-47.74	-13.00	-34.74
1981.56	Peak	H	1.27	94.46	-51.25	-13.00	-38.25
1981.56	Peak	V	1.90	187.23	-52.19	-13.00	-39.19
2642.08	Peak	H	1.63	182.27	-50.70	-13.00	-37.70
2642.08	Peak	V	1.42	354.75	-52.51	-13.00	-39.51
High Channel:697.52MHz							
830.22	Peak	H	1.70	134.71	-52.88	-13.00	-39.88
830.22	Peak	V	1.28	122.17	-56.05	-13.00	-43.05
1395.04	Peak	H	1.46	92.09	-47.18	-13.00	-34.18
1395.04	Peak	V	1.44	147.05	-48.33	-13.00	-35.33
2092.56	Peak	H	1.56	188.35	-51.66	-13.00	-38.66
2092.56	Peak	V	1.25	69.51	-52.64	-13.00	-39.64
2790.08	Peak	H	1.24	268.11	-51.77	-13.00	-38.77
2790.08	Peak	V	1.03	45.48	-52.50	-13.00	-39.50

11 Frequency Stability

Test requirement:

FCC CFR47 Part 2 Section 2.1055(a)(a)

Test method:

Based on TIA/EIA-603-C-2004

Limit:

According to FCC 74.86(e)(4), the frequency tolerance of the transmitter shall be 0.005 percent.

11.1 Test Configuration

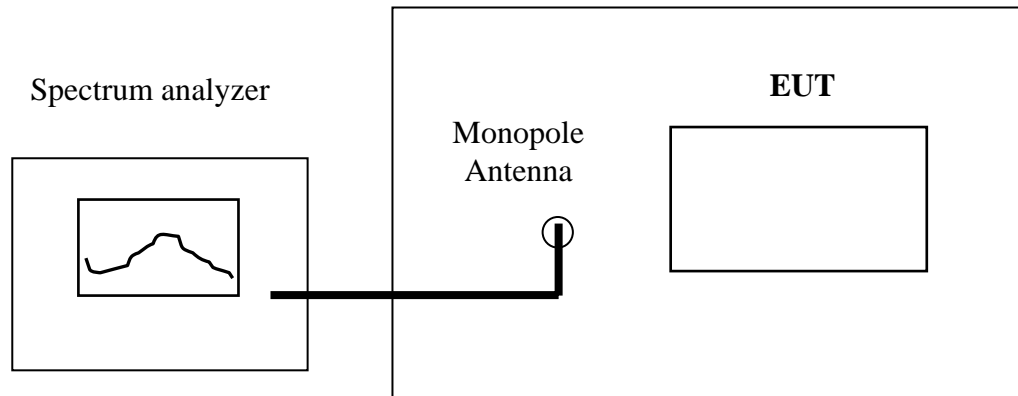


Figure 1

11.2 Test Procedure

A) Frequency stability versus input voltage

1. Setup the configuration per figure 1 for frequencies measured at an environmental chamber whose temperature is set to 20 °C. Install new batteries in the EUT.
2. Set SA center frequency to the EUT operation frequency. Then set SA RBW to 30 kHz, VBW to 100kHz and frequency span to 500 kHz. Record this frequency to be a reference.
3. Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment.

B) Frequency stability versus environmental temperature

1. Setup the configuration per figure 1 for frequencies measured at an environmental chamber, Install new batteries in the EUT.
2. Turn on EUT and set SA center frequency to the EUT operation frequency, then set SA RBW to 30kHz, VBW to 100kHz and frequency span to 500 kHz. Record this frequency to be a reference.
3. Set the temperature of chamber to 50°C. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize. While maintaining a constant temperature inside the chamber, turn the EUT on and measure the EUT operating frequency.
4. Repeat step 2 with a 10°C decreased per stage until the lowest temperature -30°C is measured, record all measurement frequencies.

11.3 Test Result

a) Frequency stability versus input voltage

Low channel

Power Supply	Reference Frequency (MHz)	Environment Temperature (°C)	Frequency Measured	Frequency Tolerance (%)
3.7V, DC	614.520	20	614.524	0.0007
4.26V, DC	614.520	20	614.528	0.0014

Middle channel

Power Supply	Reference Frequency (MHz)	Environment Temperature (°C)	Frequency Measured	Frequency Tolerance (%)
3V, DC	660.520	20	660.524	0.0006
4.26V, DC	660.520	20	660.528	0.0012

High channel

Power Supply	Reference Frequency (MHz)	Environment Temperature (°C)	Frequency Measured	Frequency Tolerance (%)
3V, DC	697.520	20	697.513	-0.0010
4.26V, DC	697.520	20	697.505	-0.0021

b) Frequency stability versus environmental temperature

Low Frequency: 614.52MHz, Limit: 0.005%			
Environment Temperature(°C)	Power Supply	Frequency Deviation measured with time Elapse(30 minutes)	
		MHz	%
50	3.7V, DC	614.521	0.0002
40	3.7V, DC	614.514	-0.0011
30	3.7V, DC	614.518	-0.0003
20	3.7V, DC	614.524	0.0007
10	3.7V, DC	614.520	0.0000
0	3.7V, DC	614.518	-0.0002
-10	3.7V, DC	614.517	-0.0006
-20	3.7V, DC	614.508	-0.0020
-30	3.7V, DC	614.503	-0.0028

Middle Frequency: 660.52MHz, Limit: 0.005%			
Environment Temperature(°C)	Power Supply	Frequency Deviation measured with time Elapse(30 minutes)	
		MHz	%
50	3.7V, DC	660.524	0.0006
40	3.7V, DC	660.509	-0.0016
30	3.7V, DC	660.511	-0.0014
20	3.7V, DC	660.524	0.0006
10	3.7V, DC	660.516	-0.0006
0	3.7V, DC	660.512	-0.0013
-10	3.7V, DC	660.503	-0.0026
-20	3.7V, DC	660.503	-0.0025
-30	3.7V, DC	660.503	-0.0026

High Frequency: 697.52MHz, Limit: 0.005%			
Environment Temperature(°C)	Power Supply	Frequency Deviation measured with time Elapse(30 minutes)	
		MHz	%
50	3.7V, DC	697.527	0.0010
40	3.7V, DC	697.520	0.0000
30	3.7V, DC	697.510	-0.0015
20	3.7V, DC	697.528	0.0011
10	3.7V, DC	697.524	0.0006
0	3.7V, DC	697.518	-0.0002
-10	3.7V, DC	697.512	-0.0012
-20	3.7V, DC	697.504	-0.0023
-30	3.7V, DC	697.502	-0.0026

Test Result: The max frequency tolerance rating is 0.0028% < 0.005%. Passed.

12 Photographs –Model MU006FT Test Setup

12.1 Photograph – Conducted Emission Test Setup

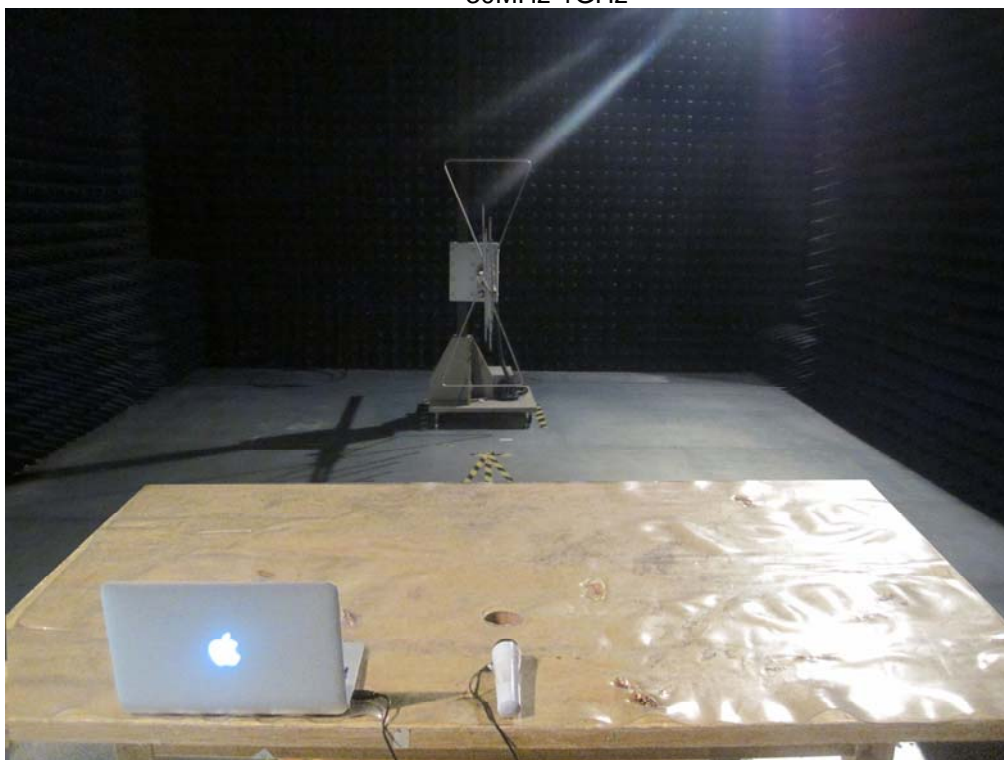


12.2 Photograph – Radiation Spurious Emission Test Setup

9KHz ~30MHz



30MHz-1GHz



1 GHz~25 GHz



13 Photographs – Constructional Details

13.1 EUT – Appearance View

White







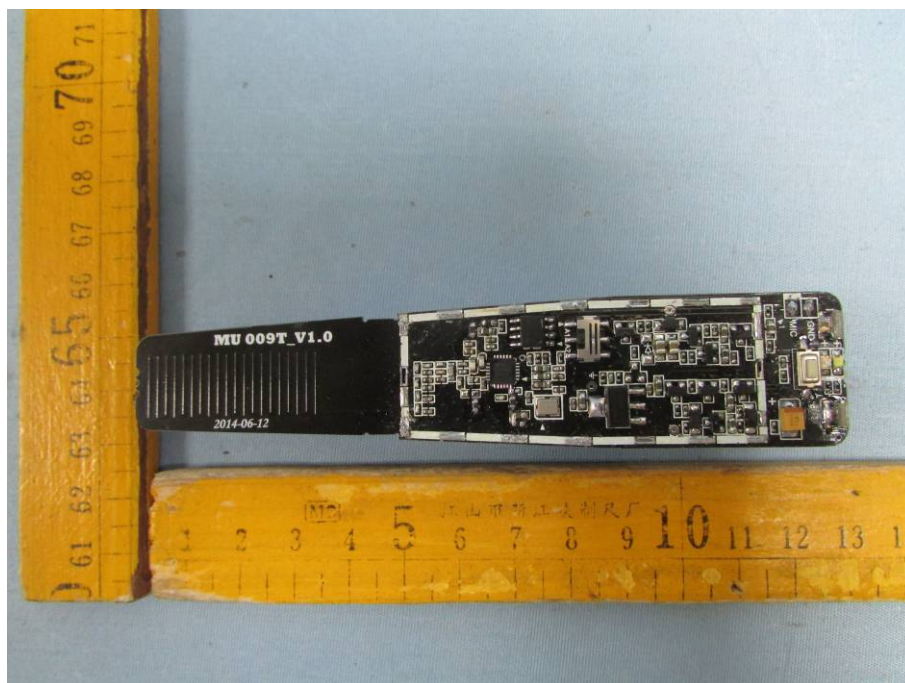
Black

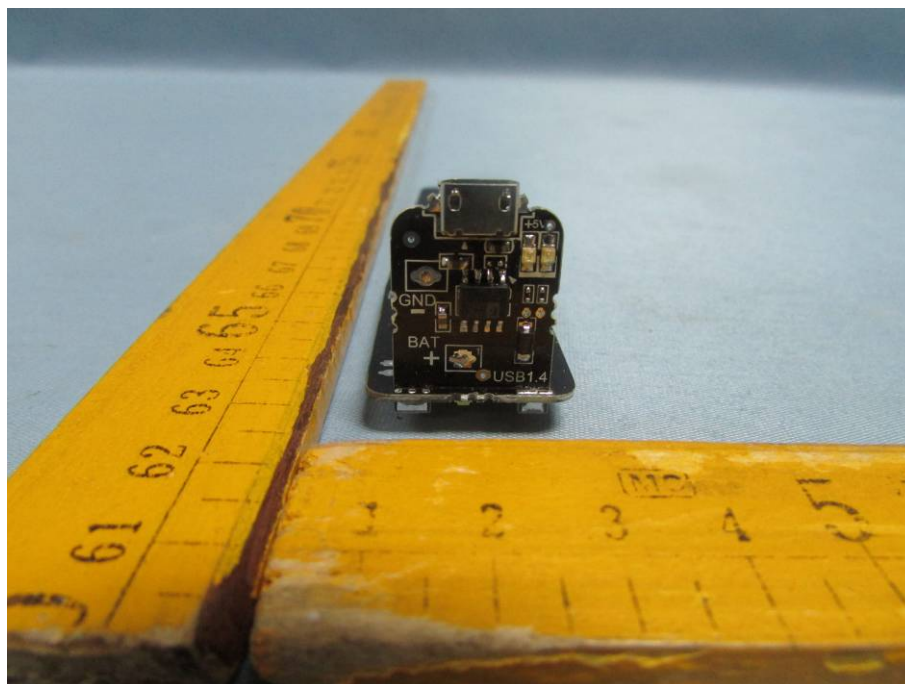


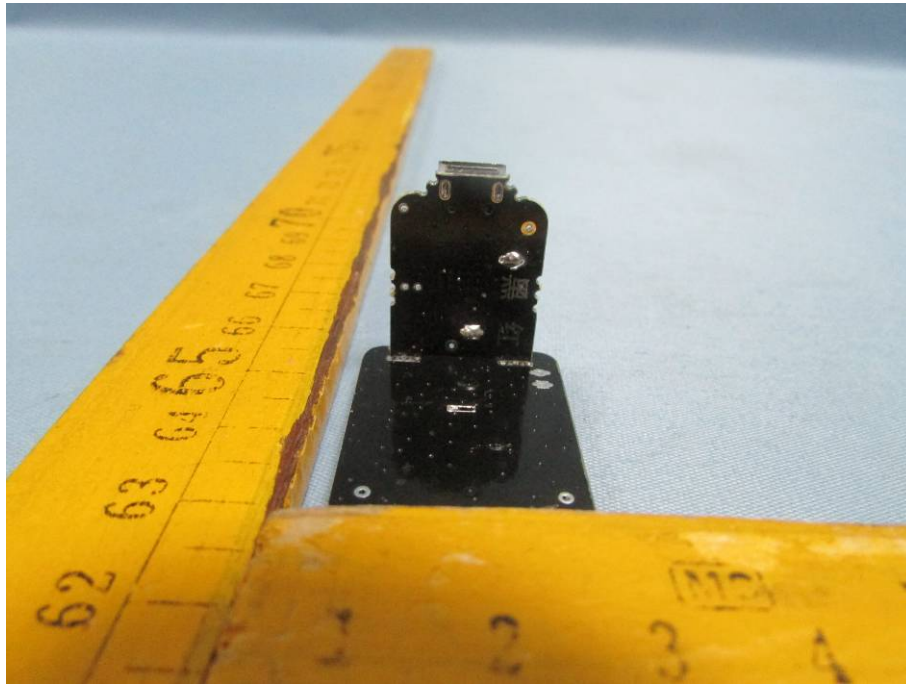


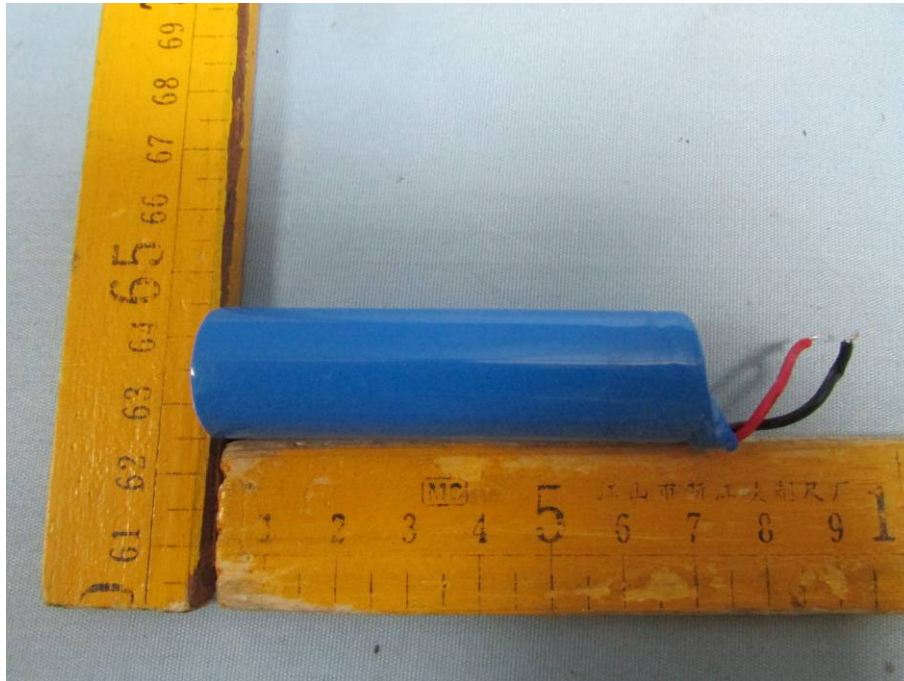


13.2 EUT – Open View









=====End of Report=====