

TEST REPORT

Reference No...... : WTS16S0142003E
FCC ID..... : ZRH-20151215
Applicant..... : SHENZHEN YUXINXIN ELECTRONICS CO.,LTD
Address..... : Building 7, Xinxing Industrial Park, Fuyong Town Bao'an District,
Shenzhen, China
Manufacturer : SHENZHEN YUXINXIN ELECTRONICS CO.,LTD.
Address..... : Building 7, Xinxing Industrial Park, Fuyong Town Bao'an District,
Shenzhen, China
Product Name..... : Wireless TV Earphones
Model No..... : YU-RF1000, RF-8138, RF-8139, RF-8913, HO700(SENTRY),
HO750(SENTRY)
Standards..... : FCC CFR47 Part 15 Section 15.249: 2015
Date of Receipt sample.... : Jan. 19, 2016
Date of Test..... : Jan. 22, 2016-Jan. 25, 2016
Date of Issue..... : Feb. 01, 2016
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.

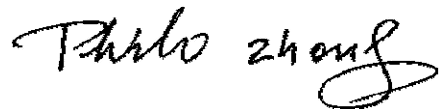
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Compiled by:



Zero Zhou / Test Engineer

Approved by:



Philo Zhong / Manager

2 Test Summary

Test Items	Test Requirement	Result
Conducted Emissions	15.207	PASS
Radiated Emission	15.249(a) 15.209 15.205(a)	PASS
Periodic Operation	15.35(c)	PASS
Outside of Band Emission	15.249 15.205 15.209	PASS
20dB Bandwidth	15:215(c)	PASS
Antenna Requirement	15.203	PASS

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4 General Information

4.1 General Description of E.U.T.

Product Name	: Wireless TV Earphones
Model No.	: YU-RF1000, RF-8138, RF-8139, RF-8913, HO700(SENTRY), HO750(SENTRY)
Model Differences	: There difference is only appearance color and model no.
Type of Modulation	: GFSK
Frequency Range	: 2406-2472MHz
The Lowest Oscillator	: 16MHz
Antenna installation	: integrated Antenna

4.2 Details of E.U.T.

Technical Data	: Input: DC 5V, 500mA from adapter (Adapter model: BLJ06W050050P1-U Input: AC 100-240V, 50/60Hz 0.2A; Output: DC 5V, 500mA)
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4.3 Test Facility

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

- **IC – Registration No.:7760A-1**

Waltek Services(Shenzhen) Co., Ltd. EMC Laboratory 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 number 7760A-1, Oct 15, 2015.

- **FCC Test Site 1#– 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.

- **FCC Test Site 2#– Registration No.: 328995**

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 328995, December 3, 2014.

4.3.1 Test Mode

All test mode(s) and condition(s) mentioned were considered and evaluated respectively by performing full tests, the worst data were recorded and reported.

Test mode	Lower channel	Middle channel	Upper channel
Transmitting	2406MHz	2440MHz	2472MHz

5 Equipment Used during Test

5.1 Equipment List

Conducted Emissions Test Site 1#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1.	EMI Test Receiver	R&S	ESCI	100947	Sep.15,2015	Sep.14,2016
2.	LISN	R&S	ENV216	101215	Sep.15,2015	Sep.14,2016
3.	Cable	Top	TYPE16(3.5M)	-	Sep.15,2015	Sep.14,2016
Conducted Emissions Test Site 2#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1.	EMI Test Receiver	R&S	ESCI	101155	Sep.15,2015	Sep.14,2016
2.	LISN	SCHWARZBECK	NSLK 8128	8128-289	Sep.15,2015	Sep.14,2016
3.	Limitter	York	MTS-IMP-136	261115-001-0024	Sep.15,2015	Sep.14,2016
4.	Cable	LARGE	RF300	-	Sep.15,2015	Sep.14,2016
3m Semi-anechoic Chamber for Radiation Emissions Test site 1#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	EMC Analyzer	Agilent	E7405A	MY45114943	Sep.15,2015	Sep.14,2016
2	Active Loop Antenna	Beijing Dazhi	ZN30900A	-	Sep.15,2015	Sep.14,2016
3	Trilog Broadband Antenna	SCHWARZBECK	VULB9163	336	Apr.19,2015	Apr.18,2016
4	Coaxial Cable (below 1GHz)	Top	TYPE16(13M)	-	Sep.15,2015	Sep.14,2016
5	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	667	Apr.19,2015	Apr.18,2016
6	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9170	335	Apr.19,2015	Apr.18,2016
7	Broadband Preamplifier	COMPLIANCE DIRECTION	PAP-1G18	2004	Mar.17,2015	Mar.16,2016
8	Coaxial Cable (above 1GHz)	Top	1GHz-25GHz	EW02014-7	Apr.10,2015	Apr.09,2016
3m Semi-anechoic Chamber for Radiation Emissions Test site 2#						
Item	Equipment	Manufacturer	Model No.	Serial No	Last Calibration Date	Calibration Due Date
1	Test Receiver	R&S	ESCI	101296	Sep.15,2015	Sep.14,2016
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	Sep.15,2015	Sep.14,2016
3	Amplifier	Compliance pirection systems inc	PAP-0203	22024	Sep.15,2015	Sep.14,2016
4	Cable	HUBER+SUHNER	CBL2	525178	Sep.15,2015	Sep.14,2016

5.2 Description of Support Units

Equipment	Manufacturer	Model No.
iPhone 5S	Apple	A1530

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)
	± 5.47 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 Conducted Emission

Test Requirement:	FCC CFR 47 Part 15 Section 15.207
Test Method:	ANSI C63.10:2013
Test Result:	PASS
Frequency Range:	150kHz to 30MHz
Class/Severity:	Class B
Limit:	66-56 dB μ V between 0.15MHz & 0.5MHz 56 dB μ V between 0.5MHz & 5MHz 60 dB μ V between 5MHz & 30MHz
Detector:	Peak for pre-scan (9kHz Resolution Bandwidth)

6.1 E.U.T. Operation

Operating Environment :

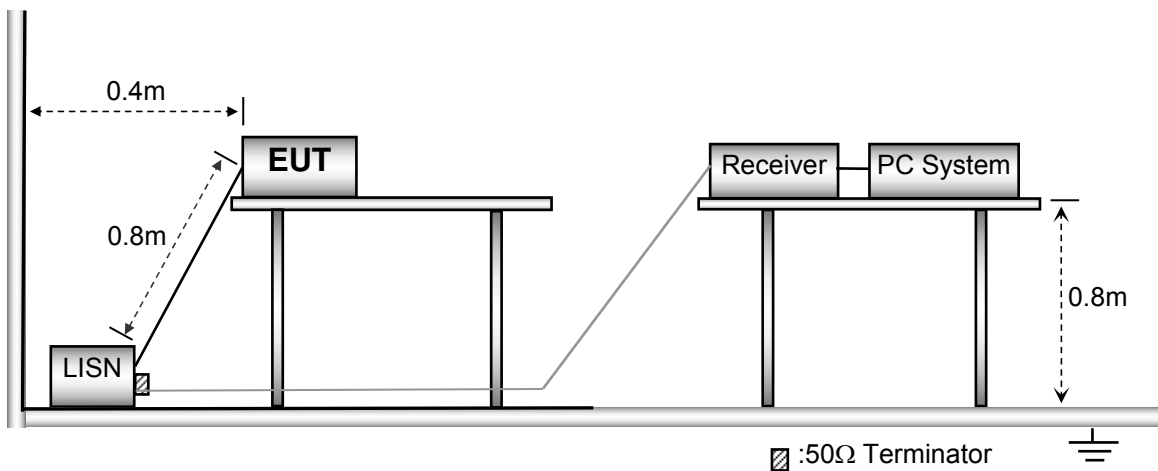
Temperature:	25.5 °C
Humidity:	51 % RH
Atmospheric Pressure:	101.2kPa

EUT Operation :

The test was performed in transmitting mode, the test data were shown in the report.

6.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.4:2003.

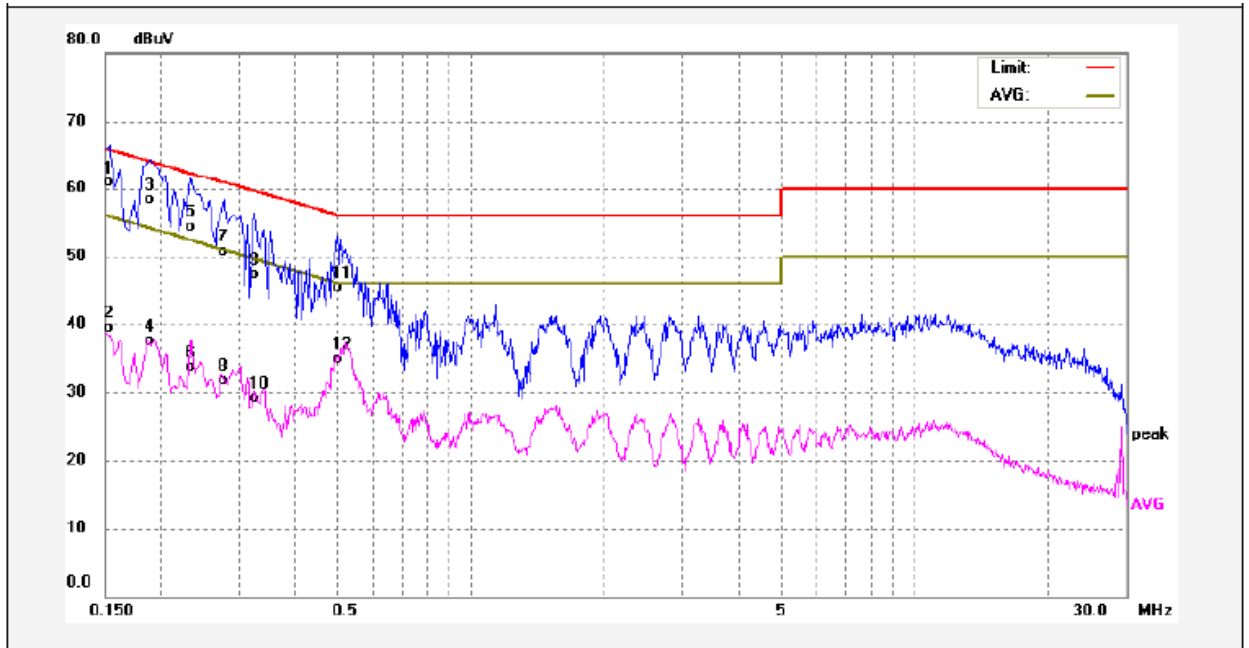


6.3 Measurement Description

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.

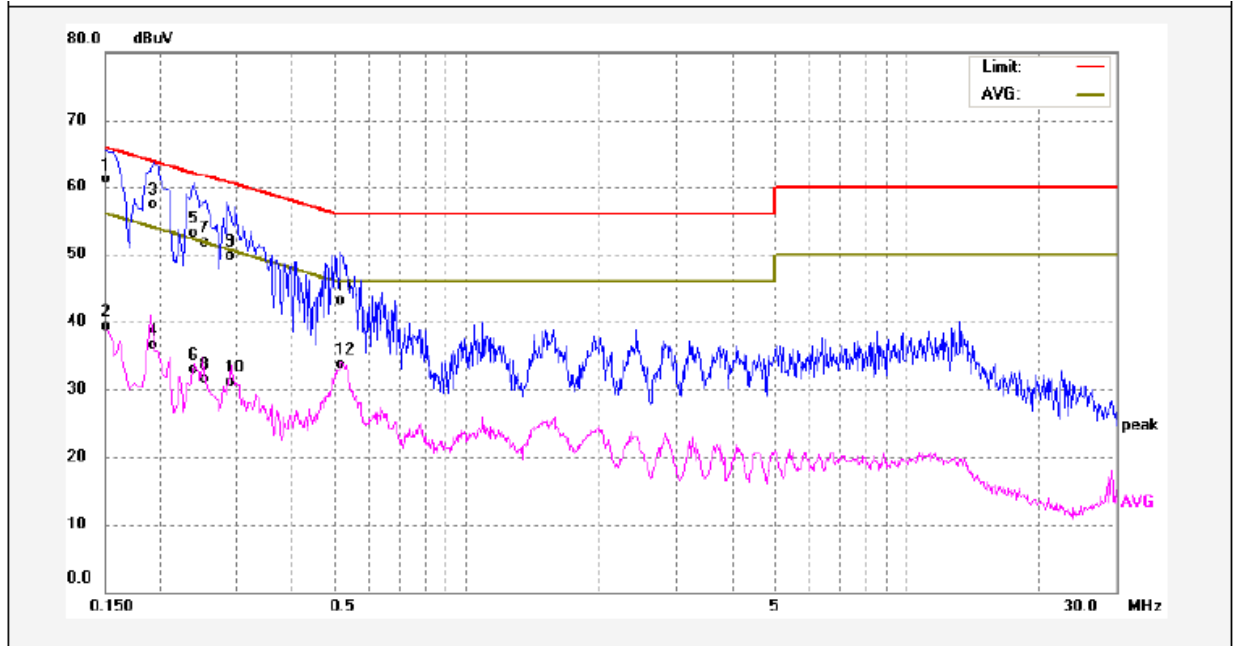
6.4 Test Result

Live line:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1539	50.88	10.10	60.98	65.78	-4.80	QP	
2	0.1539	29.40	10.10	39.50	55.78	-16.28	AVG	
3	0.1900	48.16	10.10	58.26	64.03	-5.77	QP	
4	0.1900	27.43	10.10	37.53	54.03	-16.50	AVG	
5	0.2340	44.19	10.10	54.29	62.30	-8.01	QP	
6	0.2340	23.59	10.10	33.69	52.30	-18.61	AVG	
7	0.2779	40.53	10.10	50.63	60.88	-10.25	QP	
8	0.2779	21.55	10.10	31.65	50.88	-19.23	AVG	
9	0.3260	37.11	10.11	47.22	59.55	-12.33	QP	
10	0.3260	18.93	10.11	29.04	49.55	-20.51	AVG	
11	0.5020	35.27	10.12	45.39	56.00	-10.61	QP	
12	0.5020	24.87	10.12	34.99	46.00	-11.01	AVG	

Neutral line:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1500	51.01	10.10	61.11	65.99	-4.88	QP	
2	0.1500	29.11	10.10	39.21	55.99	-16.78	AVG	
3	0.1940	47.22	10.10	57.32	63.86	-6.54	QP	
4	0.1940	26.42	10.10	36.52	53.86	-17.34	AVG	
5	0.2380	43.09	10.10	53.19	62.16	-8.97	QP	
6	0.2380	22.78	10.10	32.88	52.16	-19.28	AVG	
7	0.2540	41.58	10.10	51.68	61.62	-9.94	QP	
8	0.2540	21.36	10.10	31.46	51.62	-20.16	AVG	
9	0.2860	39.54	10.11	49.65	60.64	-10.99	QP	
10	0.2860	21.03	10.11	31.14	50.64	-19.50	AVG	
11	0.5180	33.08	10.12	43.20	56.00	-12.80	QP	
12	0.5180	23.61	10.12	33.73	46.00	-12.27	AVG	

7 Radiation Emission Test

Test Requirement: FCC Part15 Paragraph 15.249&15.209&15.205

Test Method: ANSI 63.10: 2013

Measurement Distance: 3m

Test Result: PASS

15.249(a)Limit:

Fundamental frequency	Field strength of fundamental		Field strength of harmonics	
	mV/m	dBuV/m	uV/m	dBuV/m
902-928 MHz	50	94	500	54
2400-2483.5 MHz	50	94	500	54
5725-5875 MHz	50	94	500	54
24.0-24.25 GHz	250	108	2500	68

15.209 Limit:

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Dist	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	2400/F(kHz)	300	10000 * 2400/F(kHz)	20log ^{(2400/F(kHz))} + 80
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	20log ^{(24000/F(kHz))} + 40
1.705 ~ 30	30	30	100 * 30	20log ⁽³⁰⁾ + 40
30 ~ 88	100	3	100	20log ⁽¹⁰⁰⁾
88 ~ 216	150	3	150	20log ⁽¹⁵⁰⁾
216 ~ 960	200	3	200	20log ⁽²⁰⁰⁾
Above 960	500	3	500	20log ⁽⁵⁰⁰⁾

Note: RF Voltage(dBuV)=20 log₁₀ RF Voltage(uV)

7.1 EUT Operation

Operating Environment :

Temperature: 23.5 °C

Humidity: 51.1 % RH

Atmospheric Pressure: 101.2kPa

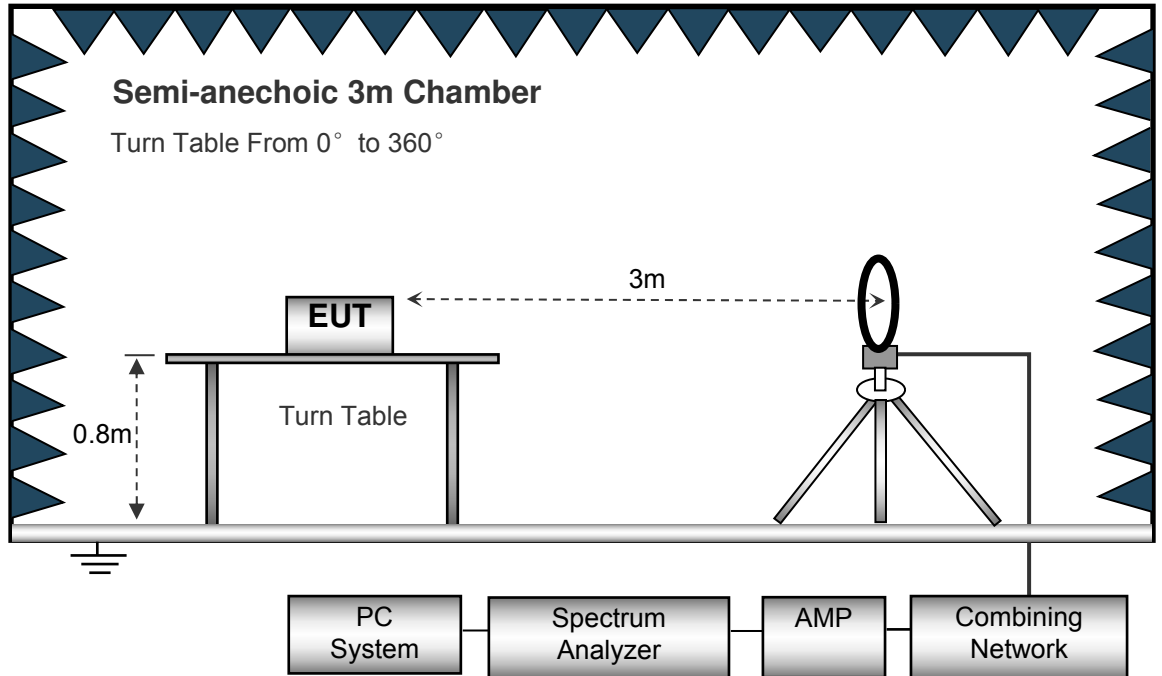
EUT Operation :

The test was performed in transmitting mode, the test data were shown in the report.

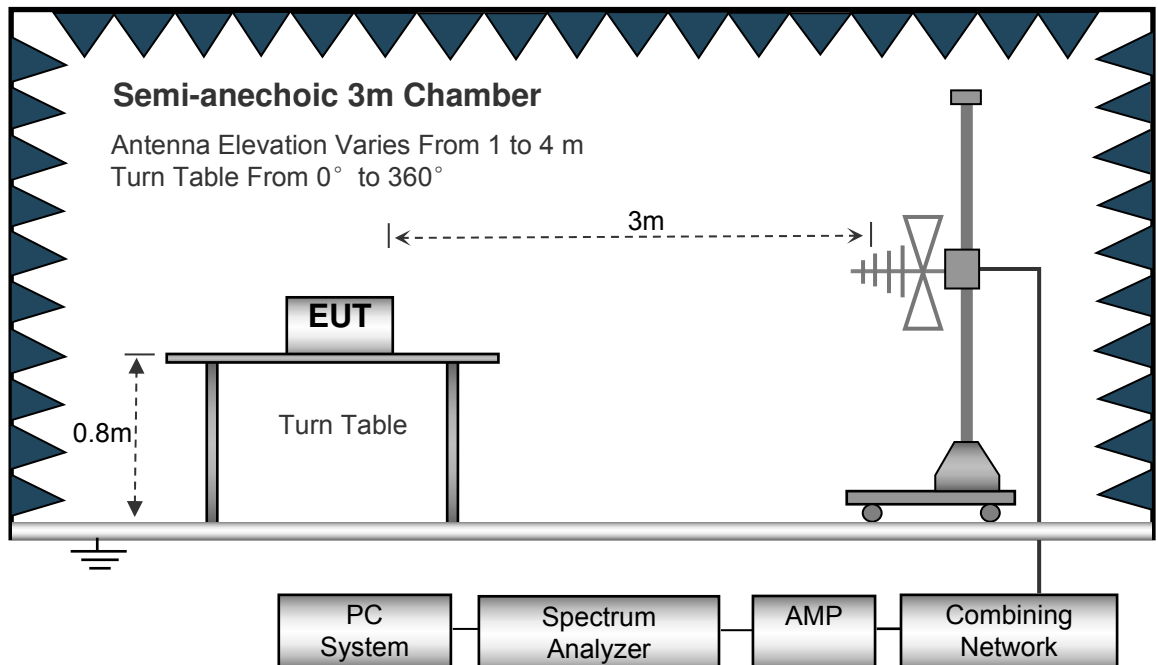
7.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.10: 2013.

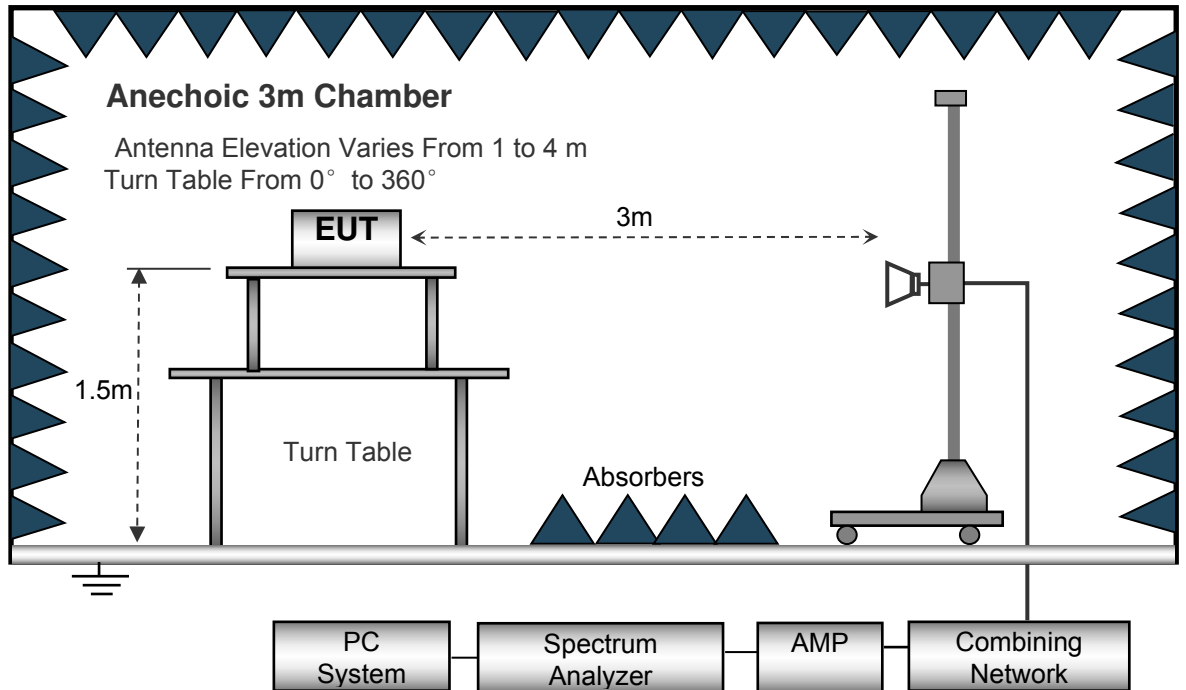
The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30MHz to 1GHz.



The test setup for emission measurement above 1 GHz.



7.3 Spectrum Analyzer Setup

Below 30MHz

Sweep Speed..... Auto
 IF Bandwidth..... 10kHz
 Video Bandwidth..... 10kHz
 Resolution Bandwidth..... 10kHz

30MHz ~ 1GHz

Sweep Speed..... Auto
 Detector..... PK
 Resolution Bandwidth..... 100kHz
 Video Bandwidth..... 300kHz

Above 1GHz

Sweep Speed..... Auto
 DetectorPK
 Resolution Bandwidth..... 1MHz
 Video Bandwidth..... 3MHz
 DetectorAve.
 Resolution Bandwidth..... 1MHz
 Video Bandwidth..... 10Hz

7.4 Test Procedure

1. The EUT is placed on a turntable. For below 1GHz, the EUT is 0.8m above ground plane; For above 1GHz, the EUT is 1.5m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions. The spectrum was investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are 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.

7.5 Test Result

Test Frequency :16MHz~ 30MHz

The measurements were more than 20 dB below the limit and not reported.

Test Frequency: 30MHz ~ 18GHz

Test Mode: Low channel Transmitting

Frequency	Receiver Reading (QP/PK)	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude (PK)	FCC Part 15.249/209/205	
			Height	Polar			Limit	Margin
(MHz)	(dB μ V)	Degree	(m)	(H/V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)
351.68	41.25	180	1.8	V	-11.40	29.85	46.00	-16.15
2406.00	92.68	220	1.0	H	-13.08	79.60	114.00	-34.40
2406.00	83.14	184	1.6	V	-13.08	70.06	114.00	-43.94
4812.00	48.36	346	1.3	H	0.09	48.45	74.00	-25.55
4812.00	40.27	314	1.8	V	0.09	40.36	74.00	-33.64
7218.00	48.16	52	1.9	H	3.01	51.17	74.00	-22.83
7218.00	41.94	277	1.2	V	3.01	44.95	74.00	-29.05
2389.75	58.36	153	1.5	H	-13.14	45.22	74.00	-28.78
2389.75	54.24	325	1.5	V	-13.14	41.10	74.00	-32.90

AV = Peak +20Log₁₀(duty cycle) =Peak+(-0.36)[refer to section 8 for more detail]

Frequency	PK	RX Antenna Polar	Duty cycle Factor	Calculated AV	FCC Part 15.249/209/205	
					Limit	Margin
(MHz)	(dB μ V/m)	(H/V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)
2406.00	79.60	H	-0.36	79.24	94.00	-14.76
2406.00	70.06	V	-0.36	69.70	94.00	-24.30
4812.00	48.45	H	-0.36	48.09	54.00	-5.91
4812.00	40.36	V	-0.36	40.00	54.00	-14.00
7218.00	51.17	H	-0.36	50.81	54.00	-3.19
7218.00	44.95	V	-0.36	44.59	54.00	-9.41
2389.75	45.22	H	-0.36	44.86	54.00	-9.14
2389.75	41.10	V	-0.36	40.74	54.00	-13.26

Test Mode: Middle channel Transmitting

Frequency (MHz)	Receiver Reading (PK) (dB μ V)	Turn table Angle Degree	RX Antenna		Corrected Factor (dB)	Corrected Amplitude (PK) (dB μ V/m)	FCC Part 15.249/209/205	
			Height (m)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
351.68	41.53	99	1.8	V	-11.40	30.13	46.00	-15.87
2440.00	92.71	346	1.2	H	-13.08	79.63	114.00	-34.37
2440.00	83.48	157	1.8	V	-13.08	70.40	114.00	-43.60
4880.00	48.62	261	1.7	H	0.09	48.71	74.00	-25.29
4880.00	40.71	41	1.3	V	0.09	40.80	74.00	-33.20
7320.00	47.66	59	1.1	H	3.01	50.67	74.00	-23.33
7320.00	41.47	238	1.4	V	3.01	44.48	74.00	-29.52
2484.11	59.98	16	1.6	H	-13.08	46.90	74.00	-27.10
2484.11	55.61	316	1.8	V	-13.08	42.53	74.00	-31.47

AV = Peak +20Log₁₀(duty cycle) =Peak+(-0.36)[refer to section 8 for more detail]

Frequency (MHz)	PK (dB μ V/m)	RX Antenna Polar (H/V)	Duty cycle Factor (dB)	Calculated AV (dB μ V/m)	FCC Part 15.249/209/205	
					Limit (dB μ V/m)	Margin (dB)
2440.00	79.63	H	-0.36	79.27	94.00	-14.73
2440.00	70.40	V	-0.36	70.04	94.00	-23.96
4880.00	48.71	H	-0.36	48.35	54.00	-5.65
4880.00	40.80	V	-0.36	40.44	54.00	-13.56
7320.00	50.67	H	-0.36	50.31	54.00	-3.69
7320.00	44.48	V	-0.36	44.12	54.00	-9.88
2484.11	46.90	H	-0.36	46.54	54.00	-7.46
2484.11	42.53	V	-0.36	42.17	54.00	-11.83

Test Mode: High channel Transmitting

Frequency	Receiver Reading (PK)	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude (PK)	FCC Part 15.249/209/205	
			Height	Polar			Limit	Margin
(MHz)	(dBμV)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
351.68	41.38	285	1.1	V	-11.40	29.98	46.00	-16.02
2472.00	92.32	16	1.9	H	-13.08	79.24	114.00	-34.76
2472.00	83.85	268	1.0	V	-13.08	70.77	114.00	-43.23
4944.00	48.24	174	1.3	H	0.09	48.33	74.00	-25.67
4944.00	40.29	50	1.7	V	0.09	40.38	74.00	-33.62
7416.00	47.34	182	1.6	H	3.01	50.35	74.00	-23.65
7416.00	41.79	3	1.5	V	3.01	44.80	74.00	-29.20
2484.05	59.92	70	1.4	H	-13.08	46.84	74.00	-27.16
2484.05	55.14	21	1.4	V	-13.08	42.06	74.00	-31.94

AV = Peak +20Log₁₀(duty cycle)=Peak+(-14.50) [refer to section 8 for more detail]

Frequency	PK	RX Antenna Polar	Duty cycle Factor	Calculated AV	FCC Part 15.249/209/205	
					Limit	Margin
(MHz)	(dBμV/m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
2472.00	79.24	H	-0.36	78.88	94.00	-15.12
2472.00	70.77	V	-0.36	70.41	94.00	-23.59
4944.00	48.33	H	-0.36	47.97	54.00	-6.03
4944.00	40.38	V	-0.36	40.02	54.00	-13.98
7416.00	50.35	H	-0.36	49.99	54.00	-4.01
7416.00	44.80	V	-0.36	44.44	54.00	-9.56
2484.05	46.84	H	-0.36	46.48	54.00	-7.52
2484.05	42.06	V	-0.36	41.70	54.00	-12.30

Test Frequency :From 18GHz to 25GHz

The measurements were more than 20 dB below the limit and not reported.

8 Periodic Operation

The duty cycle was determined by the following equation:

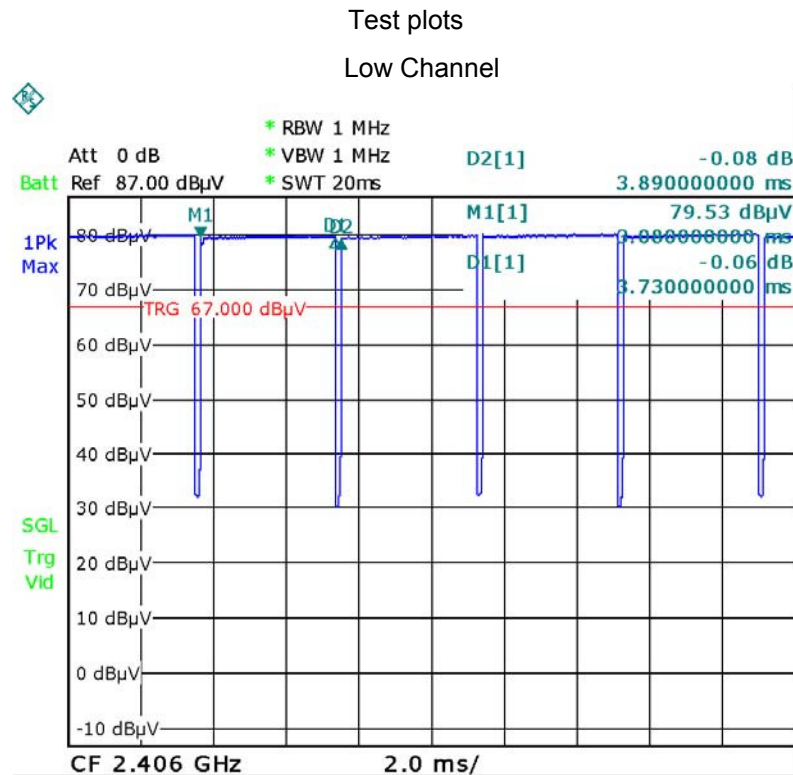
To calculate the actual field intensity, the duty cycle correction factor in decibel is needed for later use and can be obtained from following conversion

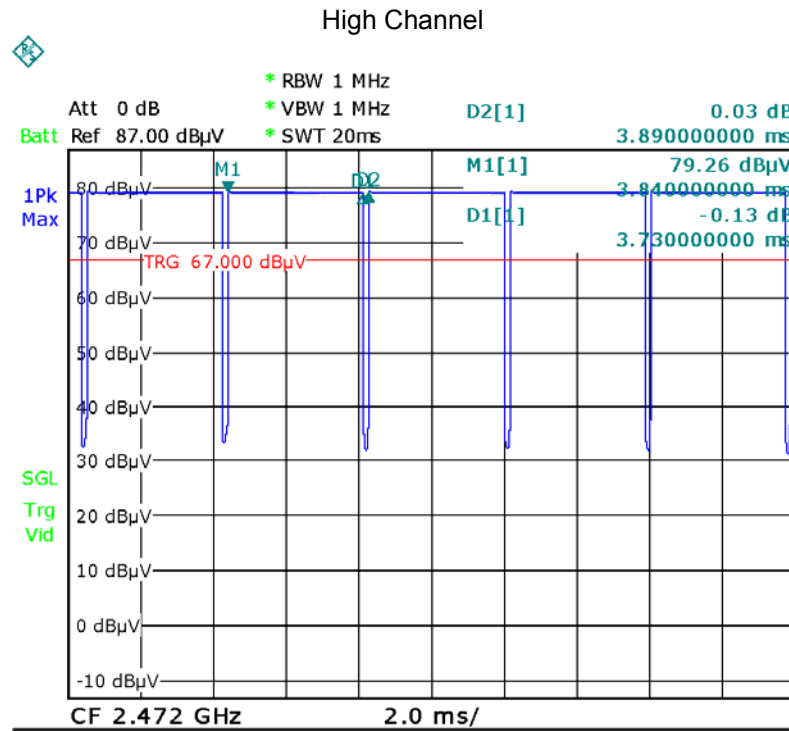
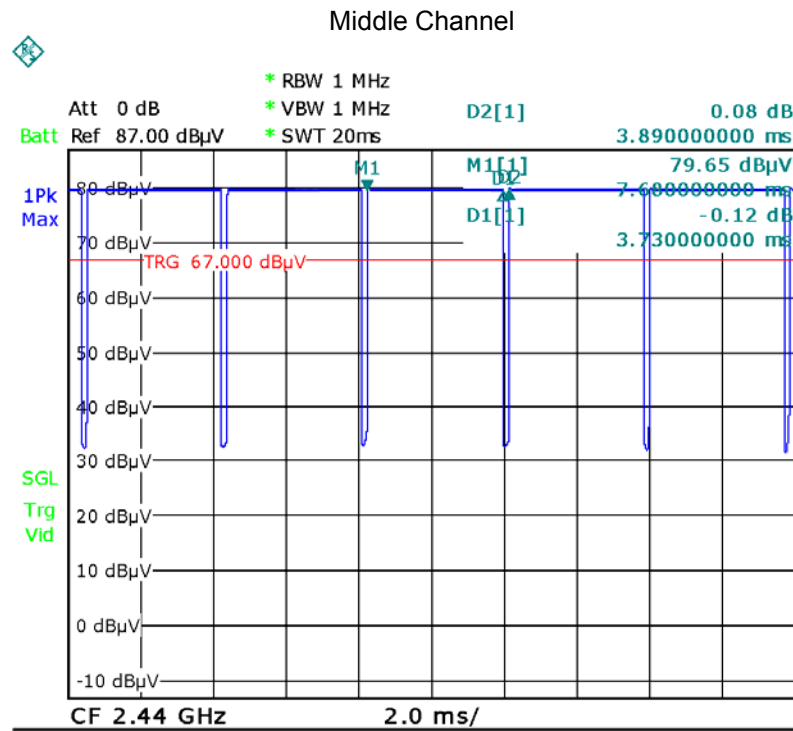
$$\text{Duty Cycle(\%)} = \text{Total On interval in a complete pulse train} / \text{Length of a complete pulse train} * \%$$

$$\text{Duty Cycle Correction Factor(dB)} = 20 * \text{Log}_{10}(\text{Duty Cycle})$$

Test Channel	Low Channel	Middle Channel	High Channel
Total transmission time(ms)	3.73	3.73	3.73
Length of a complete transmission period(ms)	3.89	3.89	3.89
Duty Cycle(%)	95.89	95.89	95.89
Duty Cycle Correction Factor(dB)	-0.36	-0.36	-0.36

Refer to the duty cycle plot (as below)





9 Outside of Band Emission

Test Requirement:	15.249(d):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 §15.209, whichever is the lesser attenuation.
Test Method:	ANSI C63.10:2013
Test Mode:	Transmitting

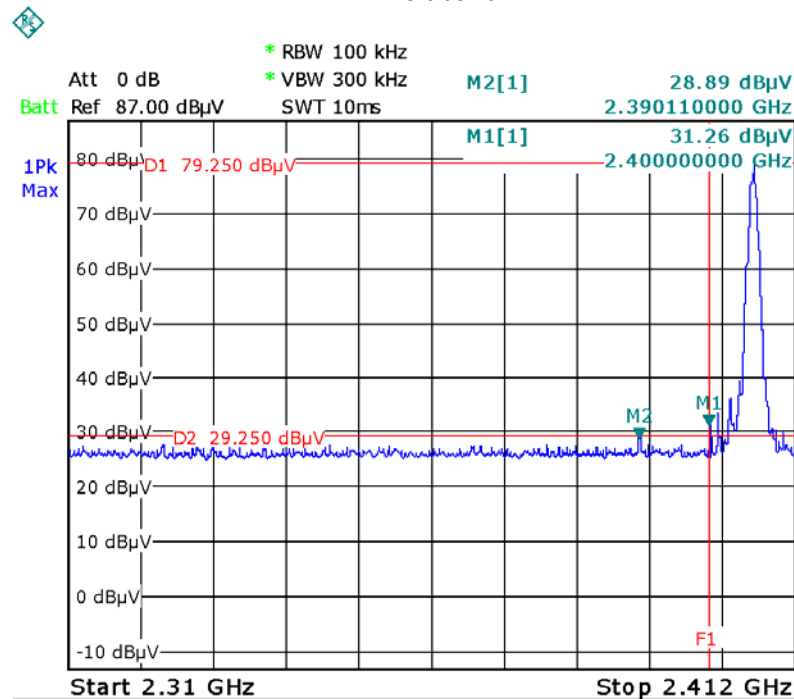
9.1 Test Procedure

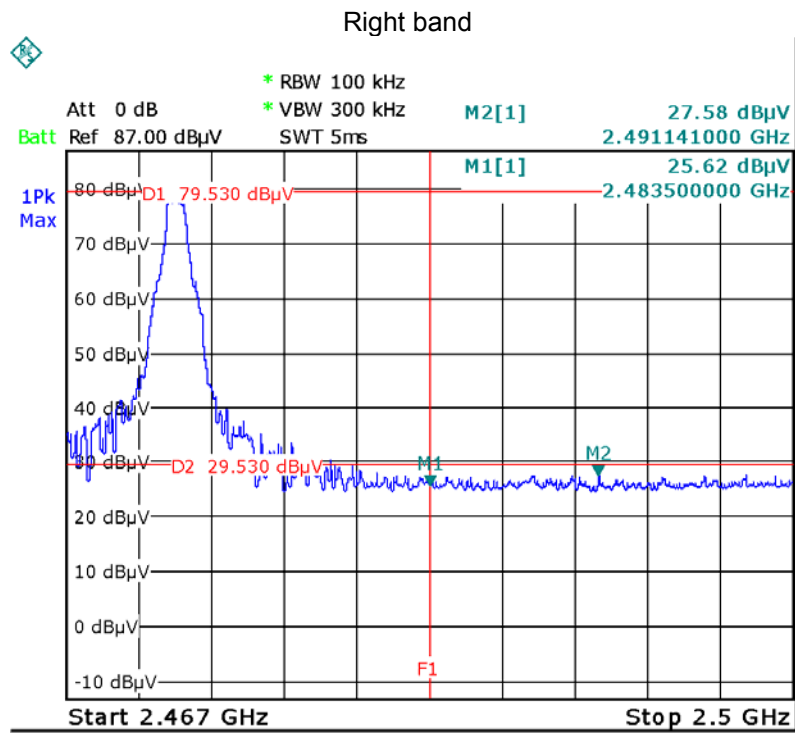
Refer to section 7.4 of this test report.

9.2 Test Result

Test plots

Left band





10 20 dB Bandwidth Measurement

Test Requirement: FCC CFR47 Part 15 Section 15.215(c)
 Test Method: ANSI C63.10:2013
 Test Mode: Transmitting

10.1 Test Procedure

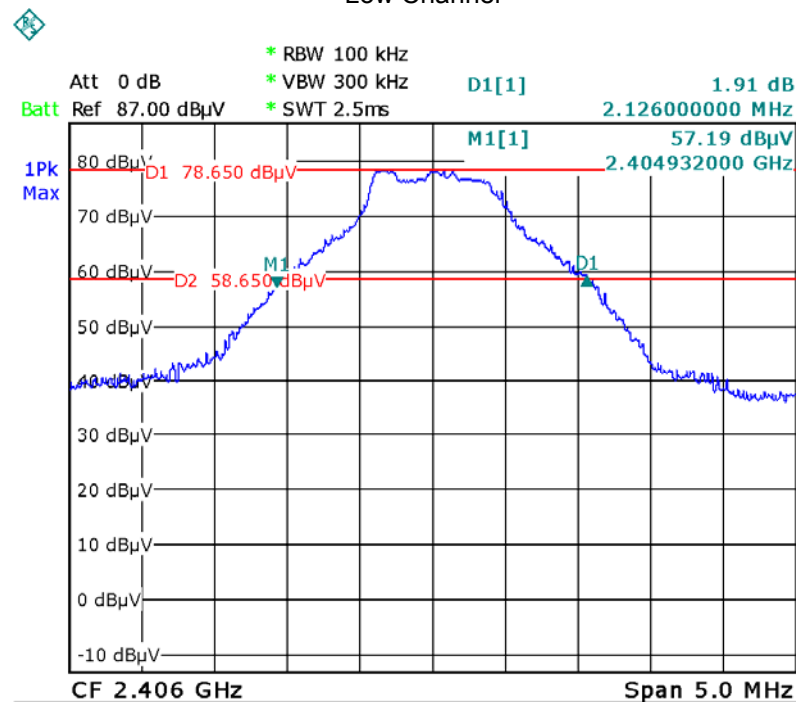
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer: RBW = 100kHz, VBW = 300kHz

10.2 Test Result

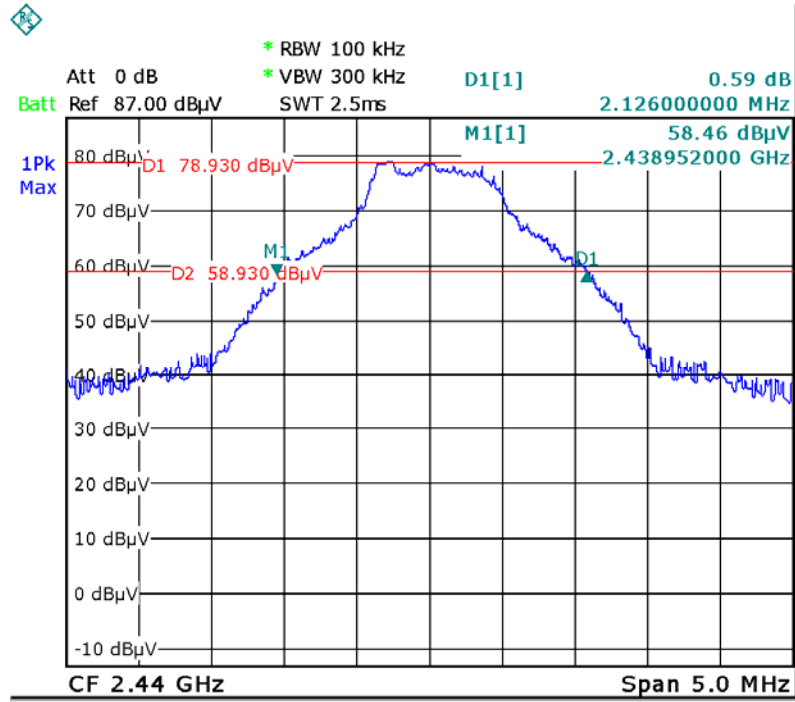
Test Channel	Bandwidth
low	2.126MHz
Middle	2.126MHz
high	2.126MHz

Test plots

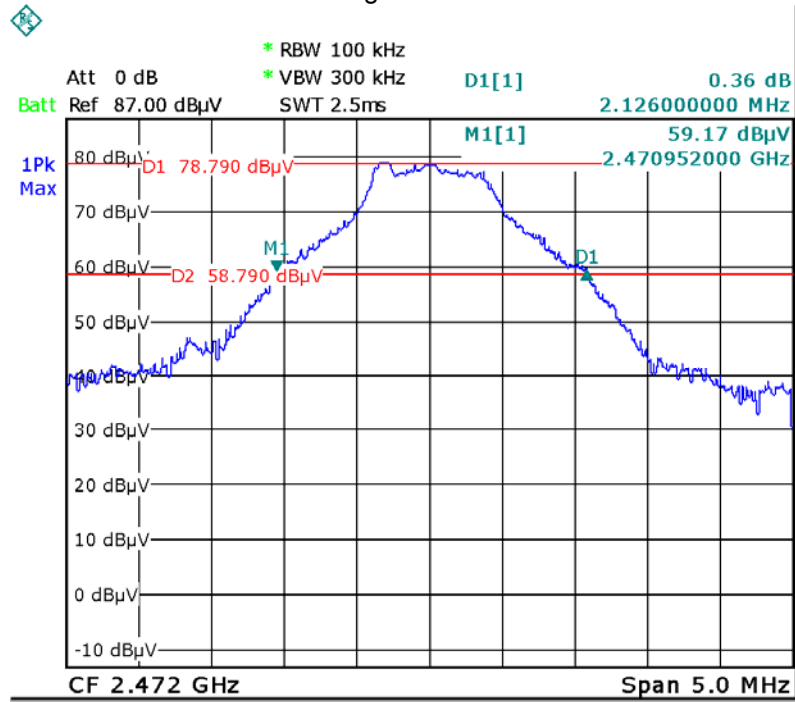
Low Channel



Middle Channel



High Channel



11 Antenna Requirement

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. This product has a integrated Antenna, fulfil the requirement of this section.

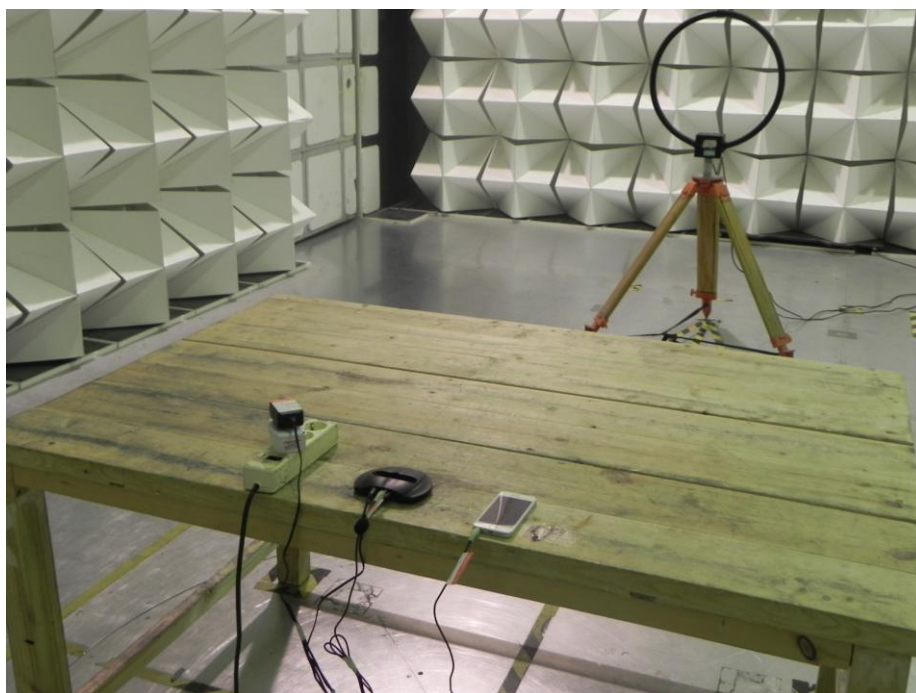
12 Photographs- YU-RF1000 Test Setup

12.1 Photograph – Conducted Emission Test Setup at Test Site 2#

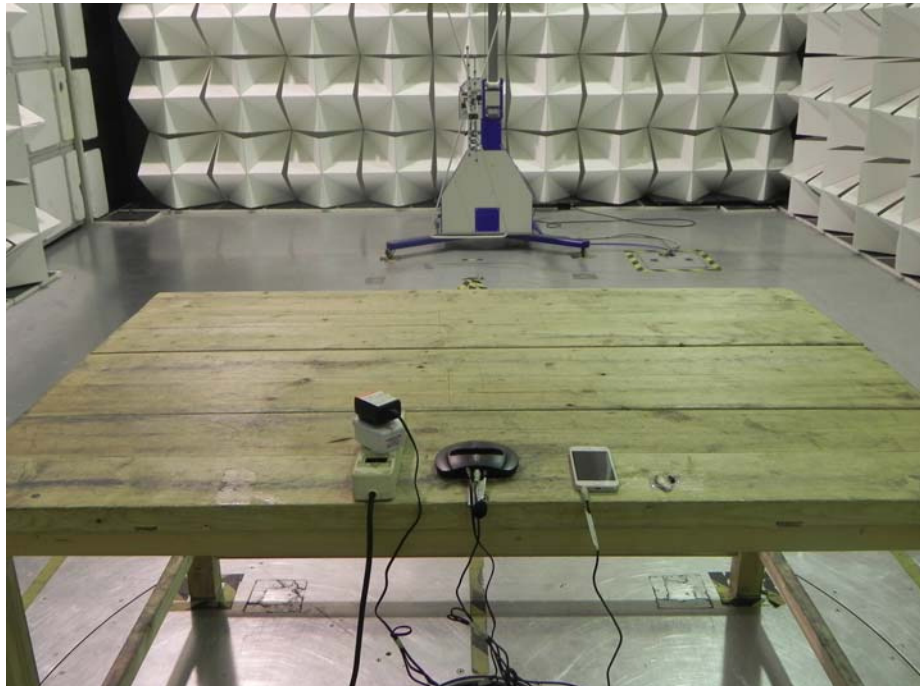


12.2 Radiation Emission

Test frequency 16MHz to 30MHz at test site 2#



Test frequency from 30MHz to 1GHz at test site 2#



Test frequency above 1GHz to 18GHz at test site 1#



13 Photographs - Constructional Details

13.1 Model YU-RF1000- External Photos

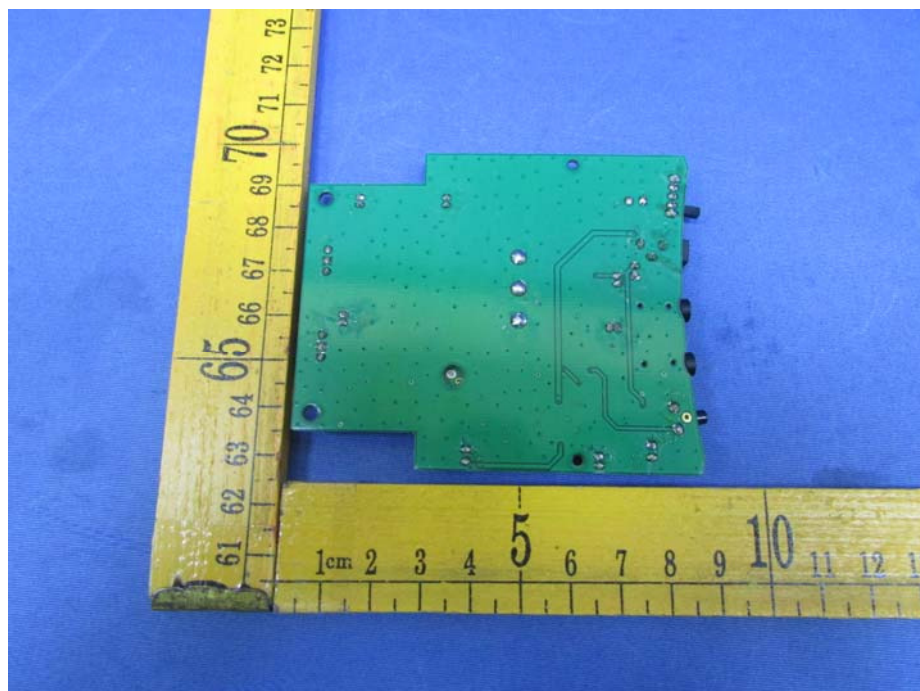


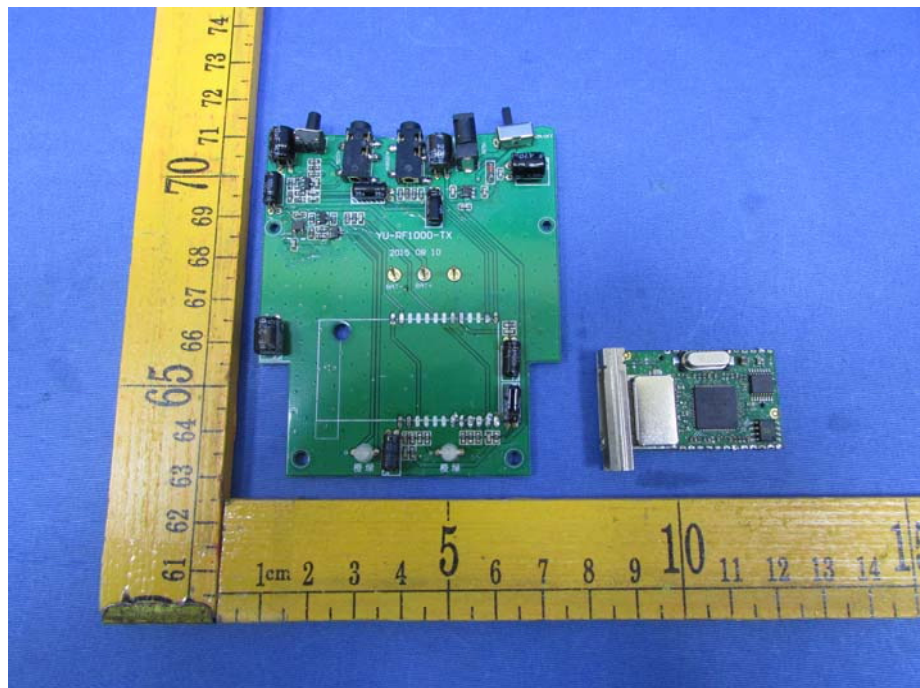
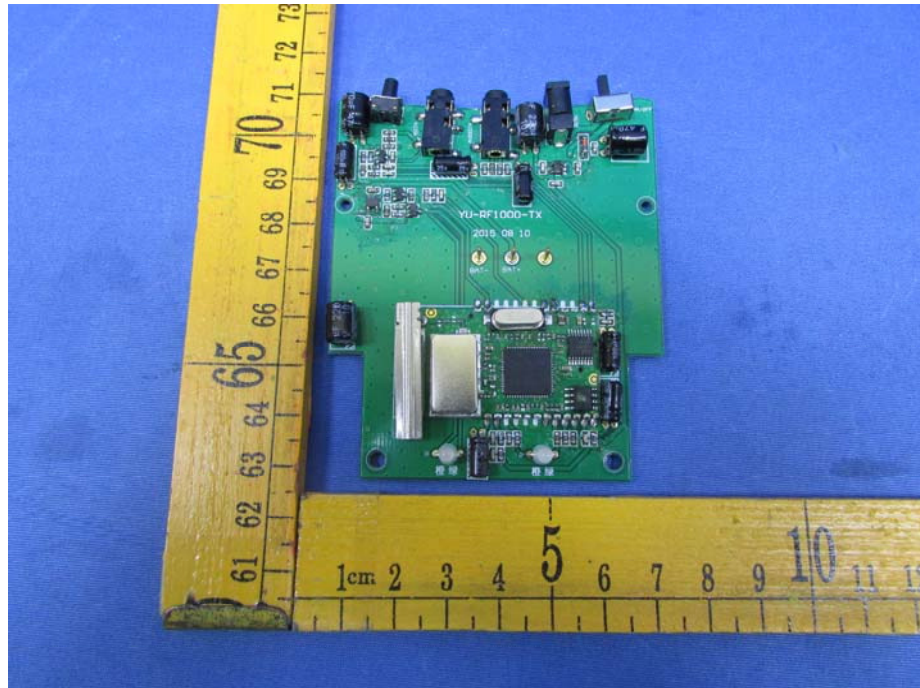


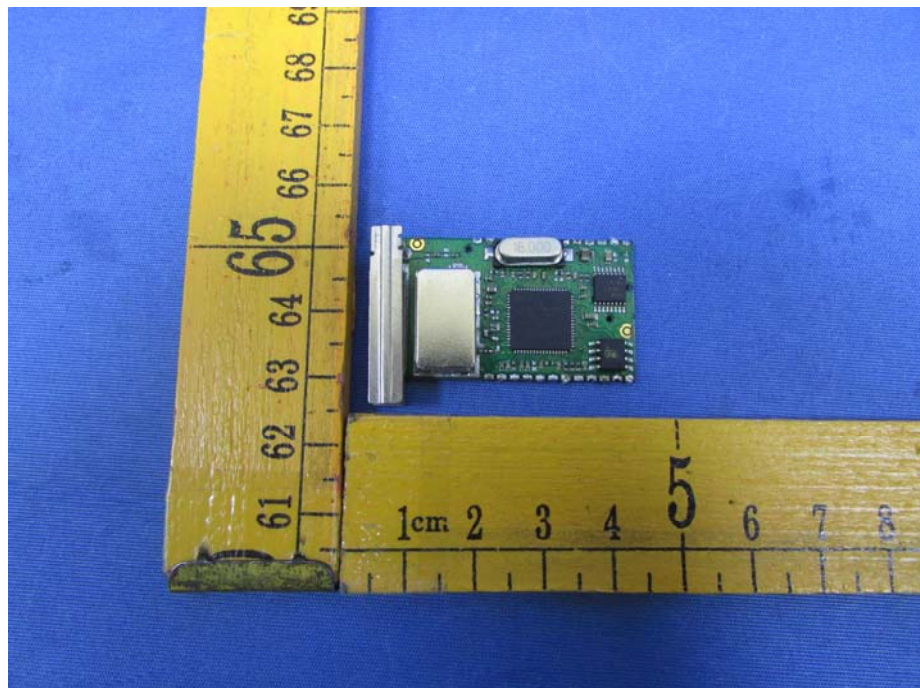
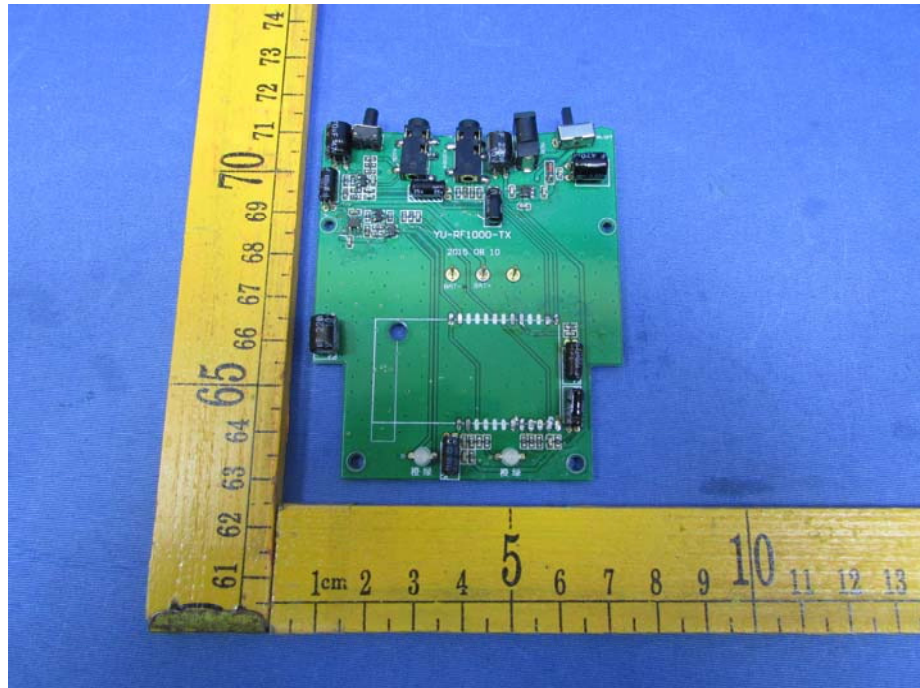


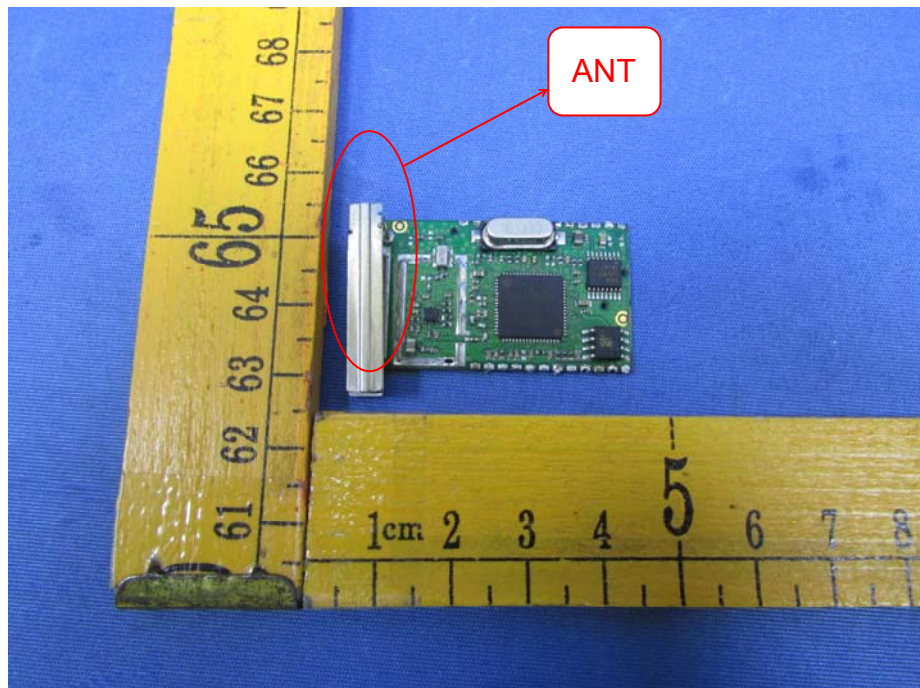
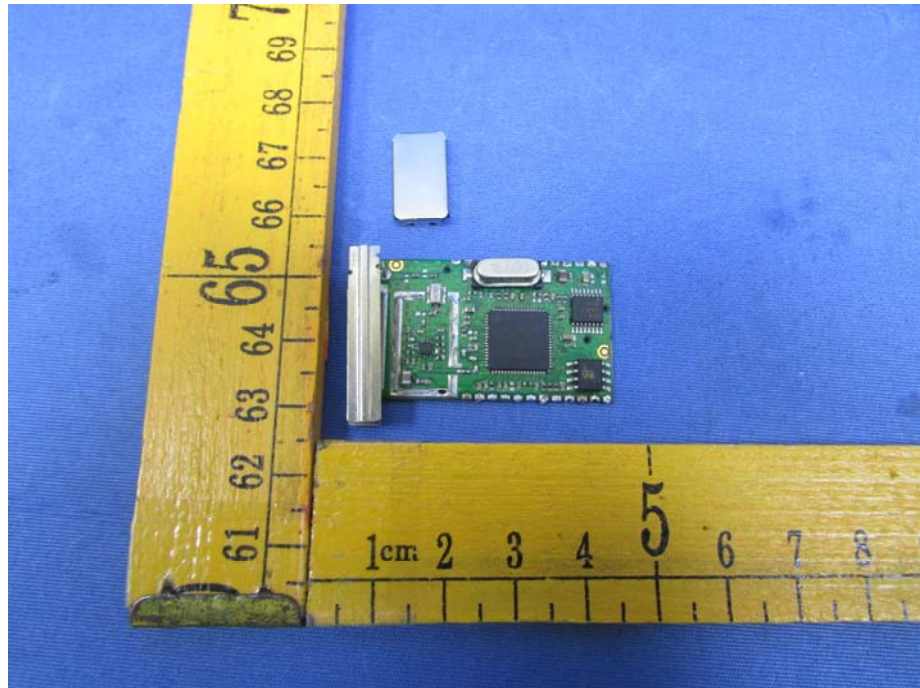


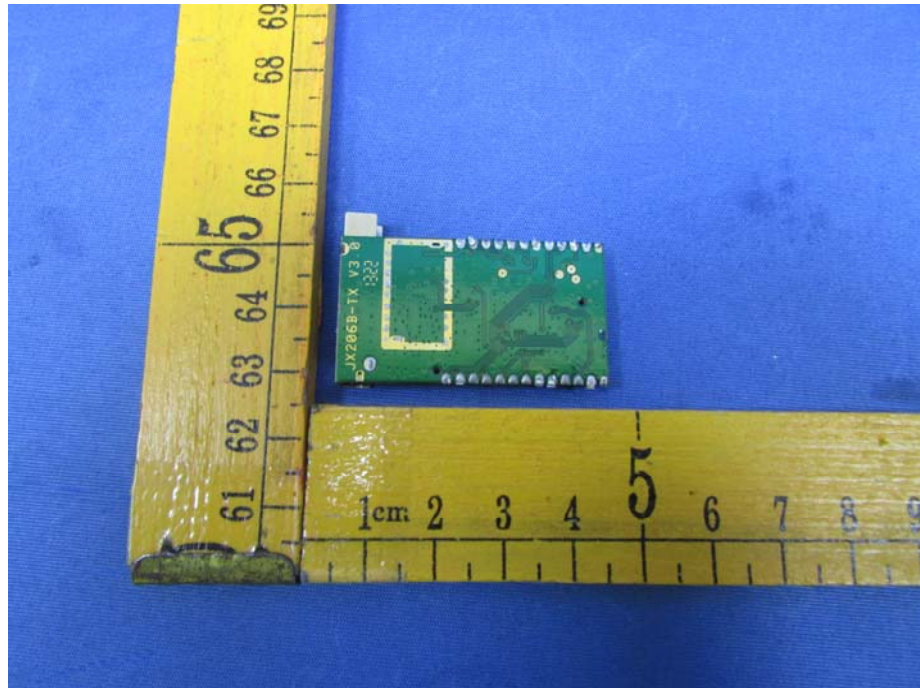
13.2 Model YU-RF1000- Internal Photos











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