FCC TEST REPORT

Test report
On Behalf of
Number One Commerce Co., LTD
For
Wireless Digital Headphones
Model No.: DHP780

FCC ID: 2AS8H-DHP780

Prepared for :	**Number One Commerce Co., LTD** **Room 1635, 16/F., Metro Centre 2, 21 Lam Hing Street, Kowloon Bay, Hong Kong, China**
Prepared By :	**Shenzhen HUAK Testing Technology Co., Ltd.** **1F, B2 Building, Junfeng Zhongcheng Zhizao Innovation Park, Fuhai Street, Bao'an District, Shenzhen City, China**

Date of Test:	**May 24, 2019 ~ May 29, 2019**
Date of Report:	**May 30, 2019**
Report Number:	**HK1905201072E**

TEST RESULT CERTIFICATION

Applicant's name ..... :	Number One Commerce Co., LTD
Address ..... :	Room 1635, 16/F., Metro Centre 2, 21 Lam Hing Street, Kowloon Bay, Hong Kong, China
Manufacture's Name..... :	Number One Commerce Co., LTD
Address ..... :	Room 1635, 16/F., Metro Centre 2, 21 Lam Hing Street, Kowloon Bay, Hong Kong, China
Product description	
Trade Mark:	RCA
Product name ..... :	Wireless Digital Headphones
Model and/or type reference :	DHP780
Standards ..... :	FCC Rules and Regulations Part 15 Subpart C Section 15.249 ANSI C63.10: 2013

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Date of Test ..... :	
Date (s) of performance of tests ..... :	May 24, 2019 ~ May 29, 2019
Date of Issue..... :	May 30, 2019
Test Result..... :	**Pass**

Testing Engineer : Gary Qian

(Gary Qian)

Technical Manager : Eden Hu

(Eden Hu)

Authorized Signatory : Jason Zhou

(Jason Zhou)

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1. TEST SUMMARY

1.1 TEST PROCEDURES AND RESULTS

DESCRIPTION OF TEST	RESULT
CONDUCTED EMISSIONS TEST	COMPLIANT
RADIATED EMISSION TEST	COMPLIANT
BAND EDGE	COMPLIANT
OCCUPIED BANDWIDTH MEASUREMENT	COMPLIANT
ANTENNA REQUIREMENT	COMPLIANT

1.2 TEST FACILITY

Test Firm : Shenzhen HUAK Testing Technology Co., Ltd.

Address : 1F, B2 Building, Junfeng Zhongcheng Zhizao Innovation Park, Fuhai Street, Bao'an District, Shenzhen City, China

1.3 MEASUREMENT UNCERTAINTY

Measurement Uncertainty

Conducted Emission Expanded Uncertainty	=	2.23dB, k=2
Radiated emission expanded uncertainty(9kHz-30MHz)	=	3.08dB, k=2
Radiated emission expanded uncertainty(30MHz-1000MHz)	=	4.42dB, k=2
Radiated emission expanded uncertainty(Above 1GHz)	=	4.06dB, k=2

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Wireless Digital Headphones
Trade Mark	RCA
Model Name	DHP780
Serial Model	/
Model Difference	/
FCC ID	**2AS8H-DHP780**
Antenna Type	PCB Antenna
Antenna Gain	0dBi
Operation frequency	2406MHZ to 2472MHz
Number of Channels	34CH
Modulation Type	GFSK
Power Source	DC 5V 0.55A From AC Adapter
Adapter Information	Model:YLJXA-T05055 Input:AC100-240, 50/60Hz, 0.5A MAX Output:DC5V 0.55A

2.2 Carrier Frequency of Channels

Channel List							
Channel	**Frequency (MHz)**	**Channel**	**Frequency (MHz)**	**Channel**	**Frequency (MHz)**	**Channel**	**Frequency (MHz)**
01	2406	11	2426	21	2446	31	2466
02	2408	12	2428	22	2448	32	2468
03	2410	13	2430	23	2450	33	2470
04	2412	14	2432	24	2452	34	2472
05	2414	15	2434	25	2454	/	/
06	2416	16	2436	26	2456	/	/
07	2418	17	2438	27	2458	/	/
08	2420	18	2440	28	2460	/	/
09	2422	19	2442	29	2462	/	/
10	2424	20	2444	30	2464	/	/

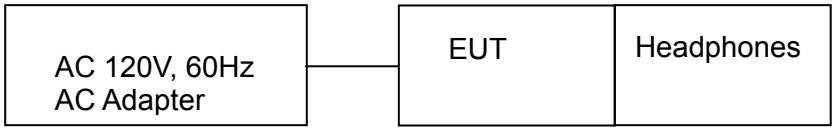
2.3 Operation of EUT during testing

Operating Mode
The mode is used: **Transmitting mode**
Low Channel: 2406MHz
Middle Channel: 2438MHz
High Channel: 2472MHz

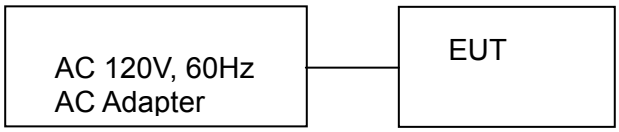
2.4 DESCRIPTION OF TEST SETUP

Operation of Radiated Emission EUT during testing:

Operation of EUT during Conducted testing:



Operation of EUT during Above1GHz Radiation testing:



2.5 MEASUREMENT INSTRUMENTS LIST

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	R&S	ENV216	HKE-002	Dec. 27, 2018	1 Year
2.	Receiver	R&S	ESCI 7	HKE-010	Dec. 27, 2018	1 Year
3.	RF automatic control unit	Tonscend	JS0806-2	HKE-060	Dec. 27, 2018	1 Year
4.	Spectrum analyzer	R&S	FSP40	HKE-025	Dec. 27, 2018	1 Year
5.	Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 27, 2018	1 Year
6.	Preamplifier	Schwarzbeck	BBV 9743	HKE-006	Dec. 27, 2018	1 Year
7.	EMI Test Receiver	Rohde & Schwarz	ESCI 7	HKE-010	Dec. 27, 2018	1 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	HKE-012	Dec. 27, 2018	1 Year
9.	Loop Antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Dec. 27, 2018	1 Year
10.	Horn Antenna	Schewarzbeck	9120D	HKE-013	Dec. 27, 2018	1 Year
11.	Pre-amplifier	EMCI	EMC051845 SE	HKE-015	Dec. 27, 2018	1 Year
12.	Pre-amplifier	Agilent	83051A	HKE-016	Dec. 27, 2018	1 Year
13.	EMI Test Software EZ-EMC	Tonscend	JY3120-B Version	HKE-083	Dec. 27, 2018	N/A
14.	Power Sensor	Agilent	E9300A	HKE-086	Dec. 27, 2018	1 Year
15.	Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 27, 2018	1 Year
16.	Signal generator	Agilent	N5182A	HKE-029	Dec. 27, 2018	1 Year
17.	Signal Generator	Agilent	83630A	HKE-028	Dec. 27, 2018	1 Year
18.	Shielded room	Shiel Hong	4*3*3	HKE-039	Dec. 27, 2018	3 Year

3. CONDUCTED EMISSIONS TEST

3.1 Conducted Power Line Emission Limit

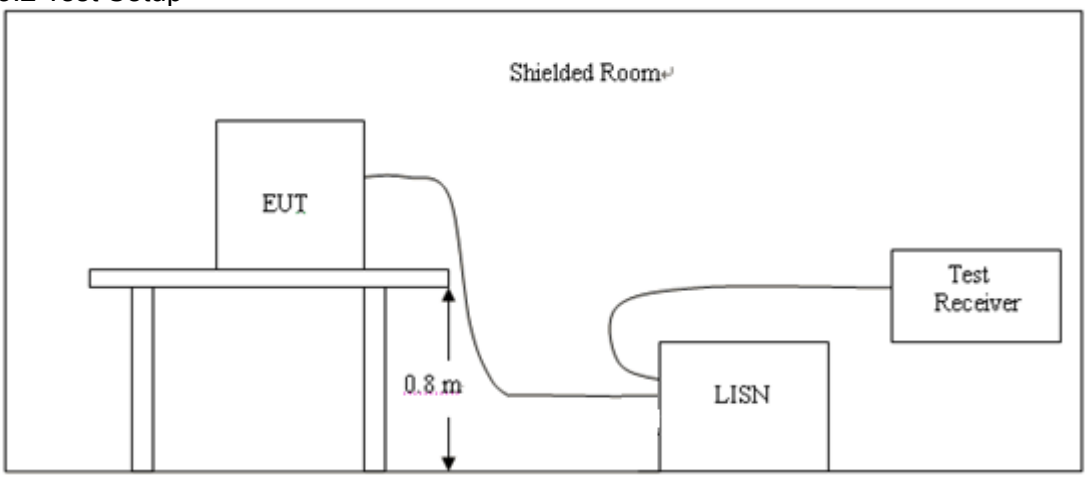
For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following

Frequency (MHz)	Maximum RF Line Voltage (dBμV)			
	CLASS A		CLASS B	
	Q.P.	Ave.	Q.P.	Ave.
0.15 - 0.50	79	66	66-56*	56-46*
0.50 - 5.00	73	60	56	46
5.00 - 30.0	73	60	60	50

* Decreasing linearly with the logarithm of the frequency

For intentional device, according to §15.207(a) Line Conducted Emission Limit is same as above table.

3.2 Test Setup



3.3 Test Procedure

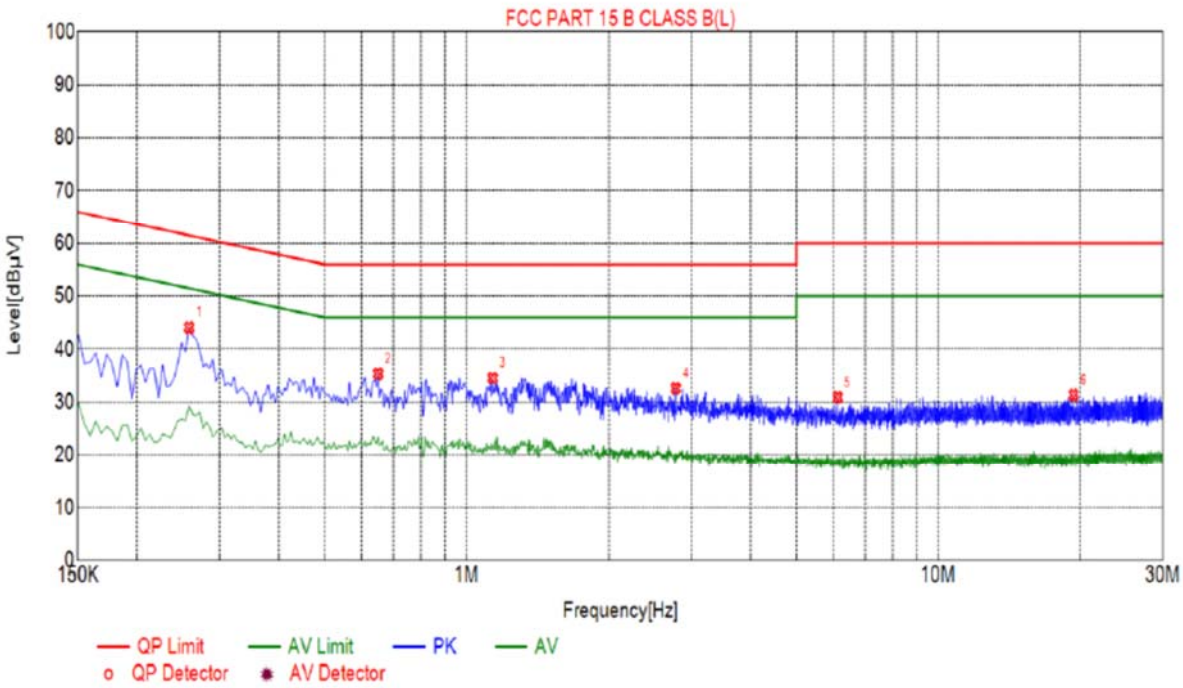
1, The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10.
2, Support equipment, if needed, was placed as per ANSI C63.10.
3, All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4, If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
5, All support equipments received AC power from a second LISN, if any.
6, The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7, Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.

3.4 Test Result

Pass

All the test modes completed for test. only the worst result of of AC120V/60Hz (GFSK High Channel) was reported as below:

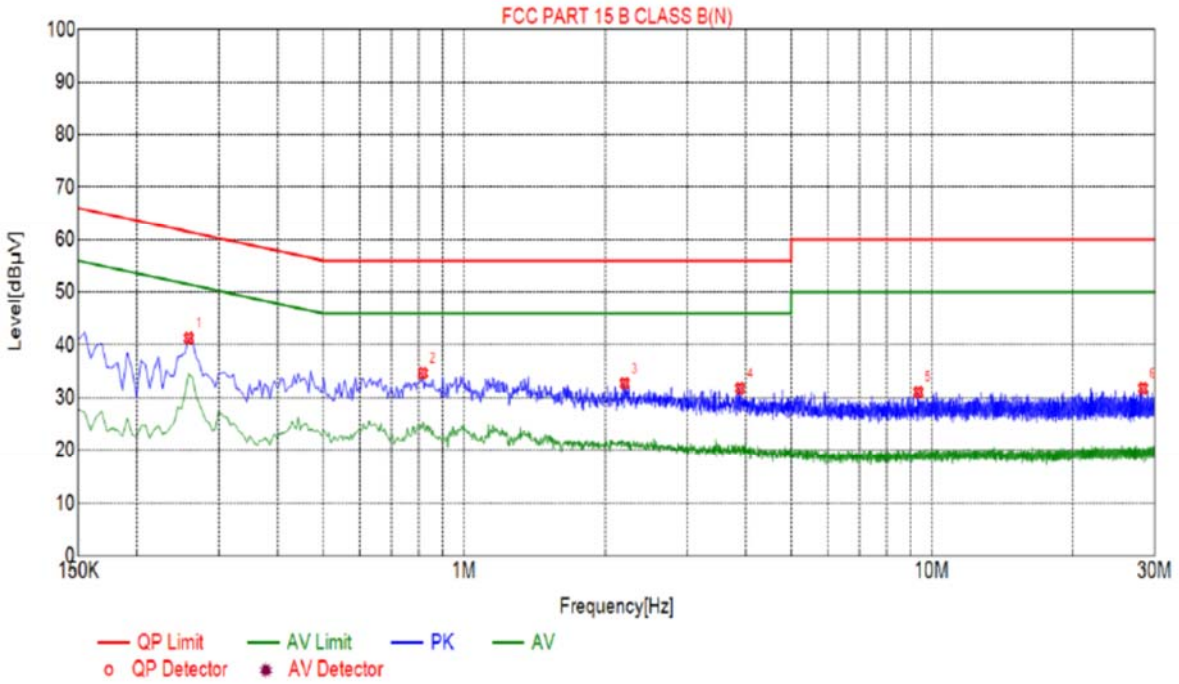
Test Specification: Line



Suspected List						
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Detector
1	0.2580	44.09	10.04	61.50	17.41	PK
2	0.6495	35.42	10.05	56.00	20.58	PK
3	1.1355	34.61	10.09	56.00	21.39	PK
4	2.7780	32.65	10.21	56.00	23.35	PK
5	6.1215	30.96	10.23	60.00	29.04	PK
6	19.3785	31.39	10.08	60.00	28.61	PK

Remark: Transd = Cable lose + Antenna factor - Pre-amplifier; Margin = Limit – Level

Test Specification: Neutral



Suspected List						
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Detector
1	0.2580	41.32	10.04	61.50	20.18	PK
2	0.8160	34.70	10.06	56.00	21.30	PK
3	2.2065	32.75	10.17	56.00	23.25	PK
4	3.8940	31.78	10.25	56.00	24.22	PK
5	9.3660	31.08	10.10	60.00	28.92	PK
6	28.2975	31.79	10.26	60.00	28.21	PK

Remark: Transd = Cable lose + Antenna factor - Pre-amplifier; Margin = Limit – Level

4 RADIATED EMISSION TEST

4.1 Radiation Limit

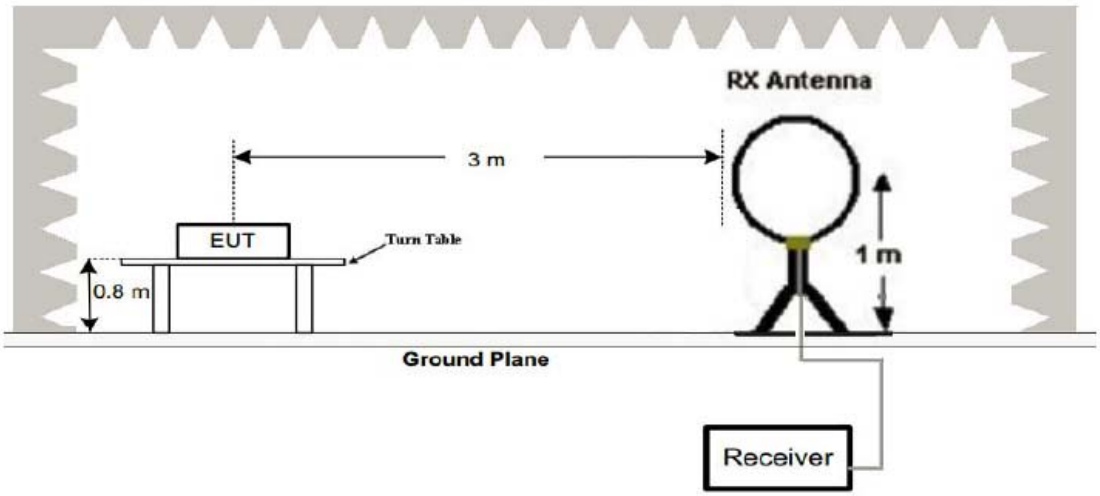
For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values：

Frequency (MHz)	Distance (Meters)	Radiated (dBμV/m)	Radiated (μV/m)
30-88	3	40	100
88-216	3	43.5	150
216-960	3	46	200
Above 960	3	54	500

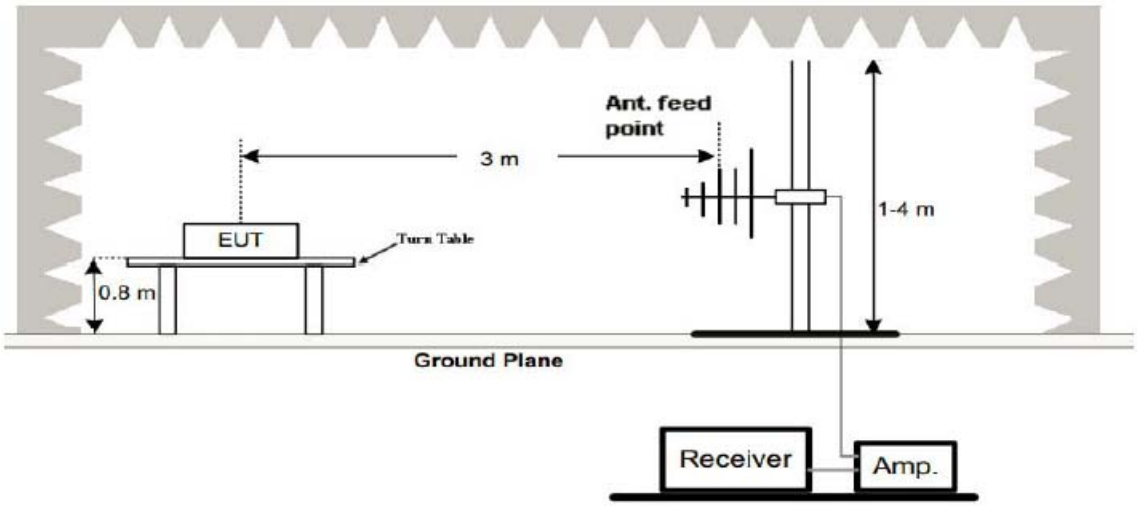
For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table.

4.2 Test Setup

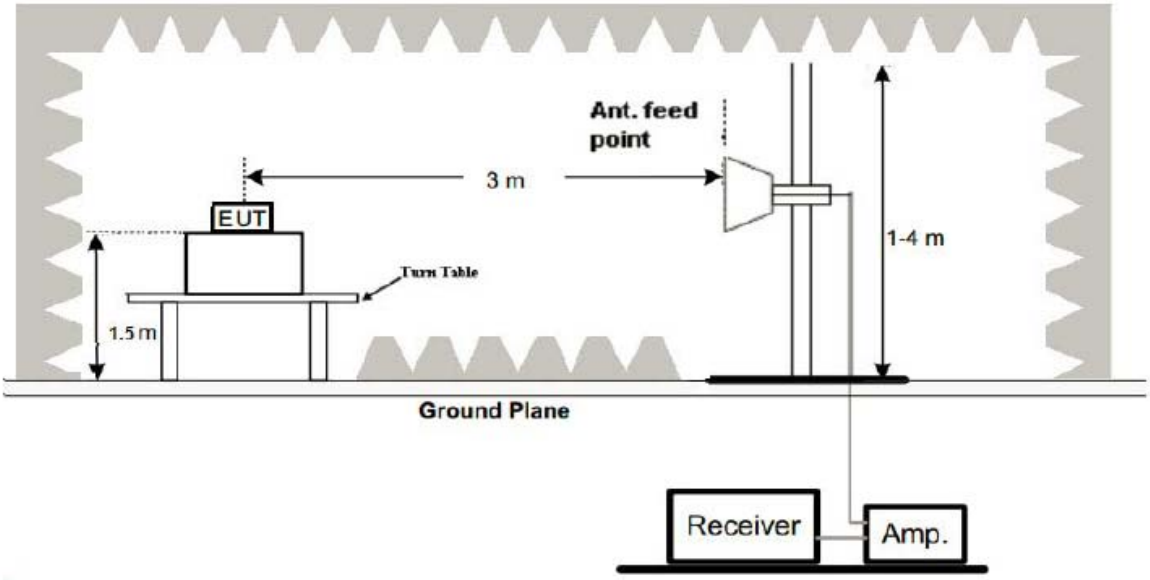
（1）Radiated Emission Test-Up Frequency Below 30MHz



（2）Radiated Emission Test-Up Frequency 30MHz~1GHz



（3）Radiated Emission Test-Up Frequency Above 1GHz



4.3 Test Procedure

1. Below 1GHz measurement the EUT is placed on turntable which is 0.8m above ground plane. And above 1GHz measurement EUT was placed on low permittivity and low tangent turn table which 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 varied from 1m to 4m to find out the highest emissions.
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 test frequency range from 9KHz to 25GHz per FCC PART 15.33(a).

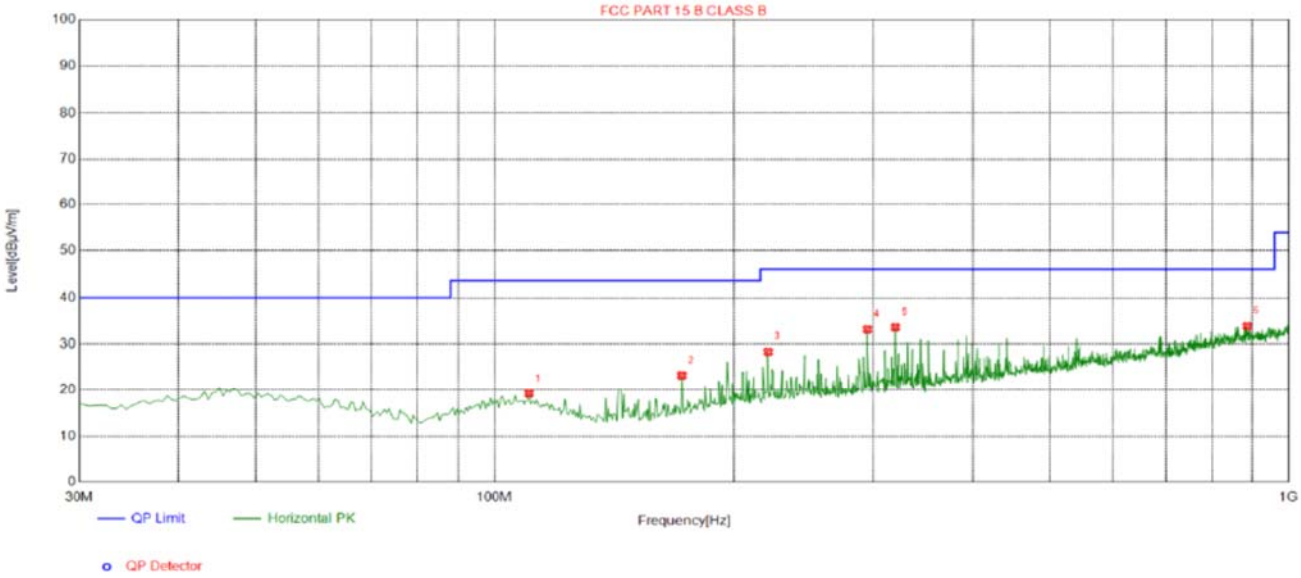
Note:
For battery operated equipment, the equipment tests shall be performed using a new battery.

4.4 Test Result

PASS
All the test modes completed for test. The worst case of Radiated Emission is CH 2406; the test data of this mode was reported.

Below 1GHz Test Results:

Antenna polarity: H

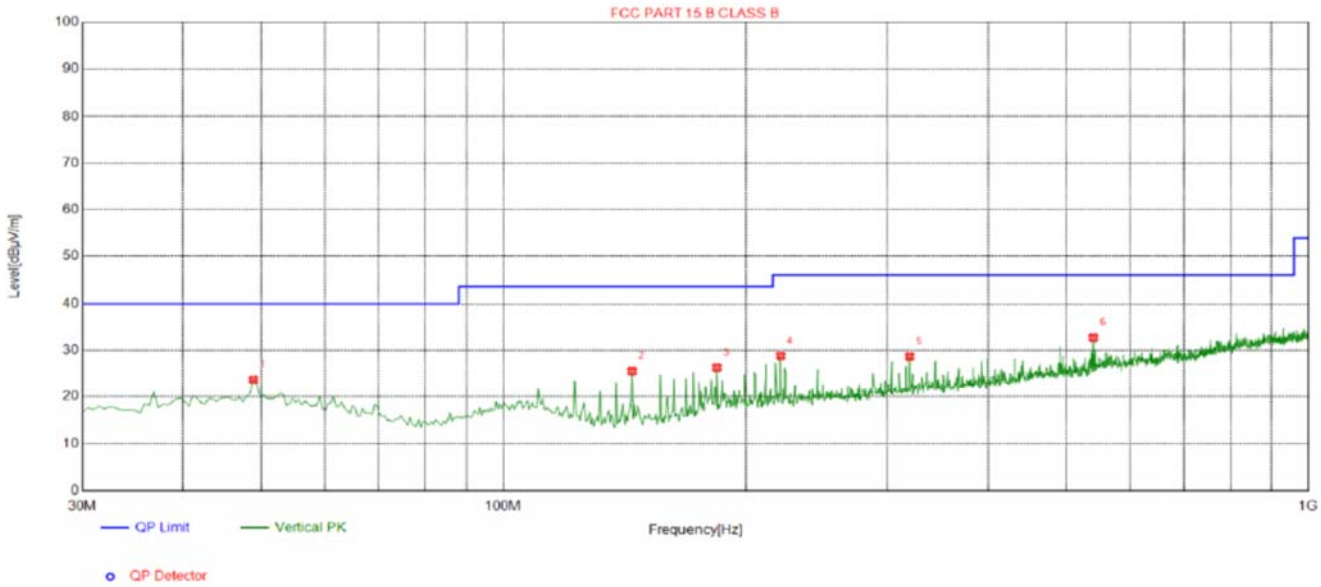


Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	110.510	19.28	-15.52	43.50	24.22	100	171	Horizontal
2	172.105	23.25	-17.21	43.50	20.25	100	241	Horizontal
3	221.090	28.43	-14.53	46.00	17.57	100	258	Horizontal
4	294.810	33.18	-12.79	46.00	12.82	100	241	Horizontal
5	319.545	33.65	-12.12	46.00	12.35	100	271	Horizontal
6	886.995	33.89	-1.94	46.00	12.11	100	74	Horizontal

Remark: Transd = Cable lose + Antenna factor - Pre-amplifier; Margin = Limit – Level

Antenna polarity: V



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	48.9150	23.70	-13.65	40.00	16.30	100	298	Vertical
2	144.460	25.53	-19.07	43.50	17.97	100	308	Vertical
3	184.230	26.29	-16.50	43.50	17.21	100	94	Vertical
4	221.090	28.80	-14.53	46.00	17.20	100	202	Vertical
5	319.545	28.66	-12.12	46.00	17.34	100	0	Vertical
6	540.705	32.71	-7.19	46.00	13.29	100	195	Vertical

Remark: Transd = Cable lose + Antenna factor - Pre-amplifier; Margin = Limit – Level

Remark：
(1) Measuring frequencies from 9 KHz to the 1 GHz, Radiated emission test from 9KHz to 30MHz was verified, and no any emission was found except system noise floor.
(2) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
(3) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.

Above 1 GHz Test Results:

CH Low (2406MHz)

Horizontal:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2406	113.23	-5.84	107.39	114	-6.61	peak
2406	87.98	-5.84	82.14	94	-11.86	AVG
4812	57.22	-3.64	53.58	74	-20.42	peak
4812	47.87	-3.64	44.23	54	-9.77	AVG
7218	53.19	-0.95	52.24	74	-21.76	peak
7218	42.67	-0.95	41.72	54	-12.28	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2406	112.11	-5.84	106.27	114	-7.73	peak
2406	85.23	-5.84	79.39	94	-14.61	AVG
4812	57.98	-3.64	54.34	74	-19.66	peak
4812	48.23	-3.64	44.59	54	-9.41	AVG
7218	55.24	-0.95	54.29	74	-19.71	peak
7218	39.87	-0.95	38.92	54	-15.08	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

CH Middle (2438MHz)

Horizontal:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2438	110.32	-5.71	104.61	114	-9.39	peak
2438	84.43	-5.71	78.72	94	-15.28	AVG
4876	55.87	-3.51	52.36	74	-21.64	peak
4876	44.23	-3.51	40.72	54	-13.28	AVG
7314	53.98	-0.82	53.16	74	-20.84	peak
7314	38.75	-0.82	37.93	54	-16.07	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2438	108.38	-5.71	102.67	114	-11.33	peak
2438	84.22	-5.71	78.51	94	-15.49	AVG
4876	55.24	-3.51	51.73	74	-22.27	peak
4876	46.29	-3.51	42.78	54	-11.22	AVG
7314	56.44	-0.82	55.62	74	-18.38	peak
7314	43.19	-0.82	42.37	54	-11.63	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

CH High (2472MHz)

Horizontal:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2472	106.56	-5.65	100.91	114	-13.09	peak
2472	84.38	-5.65	78.73	94	-15.27	AVG
4944	54.65	-3.43	51.22	74	-22.78	peak
4944	43.22	-3.43	39.79	54	-14.21	AVG
7416	53.17	-0.75	52.42	74	-21.58	peak
7416	37.38	-0.75	36.63	54	-17.37	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2472	106.09	-5.65	100.44	114	-13.56	peak
2472	85.27	-5.65	79.62	94	-14.38	AVG
4944	55.22	-3.43	51.79	74	-22.21	peak
4944	44.11	-3.43	40.68	54	-13.32	AVG
7416	52.24	-0.75	51.49	74	-22.51	peak
7416	38.85	-0.75	38.1	54	-15.9	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Remark：
(1) Measuring frequencies from 1 GHz to the 25 GHz。
(2) “F” denotes fundamental frequency; “H” denotes spurious frequency. “E” denotes band edge frequency.
(3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
(4) Data of measurement within this frequency range shown “--- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
(5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
(6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.
(7)All modes of operation were investigated and the worst-case emissions are reported.

5 BAND EDGE

5.1 Limits

FCC PART 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.

5.2 Test Procedure

The band edge compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW to 100KHz and VBM to 300KHz to measure the peak field strength and set RBW to 1MHz and VBW to 10Hz to measure the average radiated field strength.The conducted RF band edge was measured by using a spectrum analyzer. Set span wide enough to capture the highest in-band emission and the emission at the band edge. Set RBW to 100 KHz and VBW to 300 KHz, to measure the conducted peak band edge.

5.3 Test Result

PASS

Radiated Band Edge Test:

Operation Mode: TX CH Low (2406MHz)

Horizontal (Worst case)

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2310	58.28	-5.81	52.47	74	-21.53	peak
2310	/	-5.81	/	54	/	AVG
2390	55.22	-5.84	49.38	74	-24.62	peak
2390	/	-5.84	/	54	/	AVG
2400	53.92	-5.84	48.08	74	-25.92	peak
2400	/	-5.84	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2310	56.76	-5.81	50.95	74	-23.05	peak
2310	/	-5.81	/	54	/	AVG
2390	54.37	-5.84	48.53	74	-25.47	peak
2390	/	-5.84	/	54	/	AVG
2400	52.48	-5.84	46.64	74	-27.36	peak
2400	/	-5.84	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Operation Mode: TX CH High (2472MHz)

Horizontal (Worst case)

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.50	54.11	-5.65	48.46	74	-25.54	peak
2483.50	/	-5.65	/	54	/	AVG
2500.00	53.52	-5.65	47.87	74	-26.13	peak
2500.00	/	-5.65	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.50	55.29	-5.65	49.64	74	-24.36	peak
2483.50	/	-5.65	/	54	/	AVG
2500.00	53.75	-5.65	48.1	74	-25.9	peak
2500.00	/	-5.65	/	54	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						
Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.						

6 OCCUPIED BANDWIDTH MEASUREMENT

6.1 Test Setup

Same as Radiated Emission Measurement

6.2 Test Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set EUT as normal operation.
3. Based on ANSI C63.10 section 6.9.2: RBW= 30KHz. VBW= 100 KHz, Span=4MHz.
4. The useful radiated emission from the EUT was detected by the spectrum analyser with peak detector.

6.3 Measurement Equipment Used

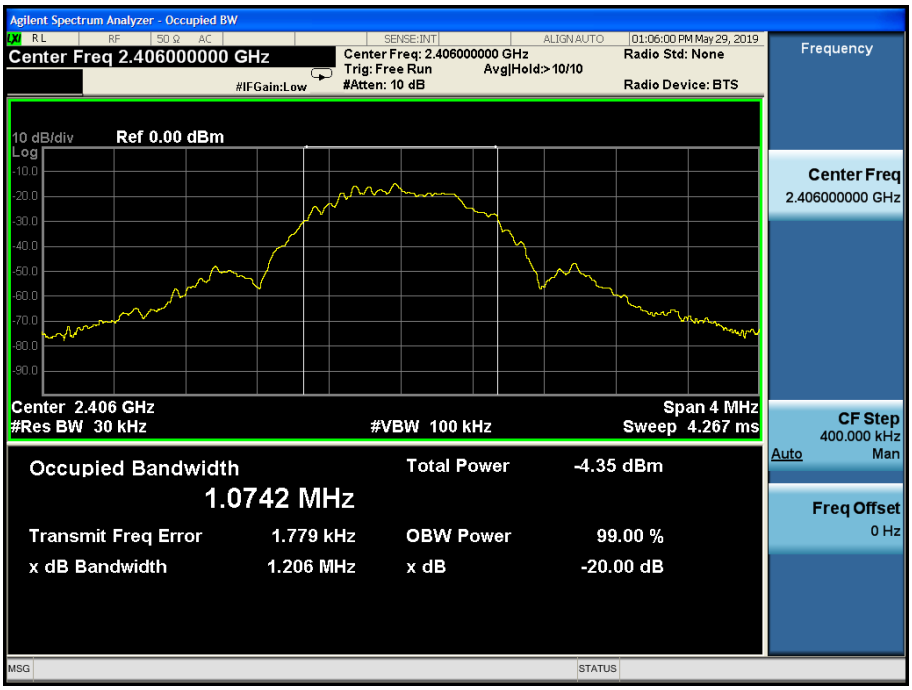
Same as Radiated Emission Measurement

6.4 Test Result

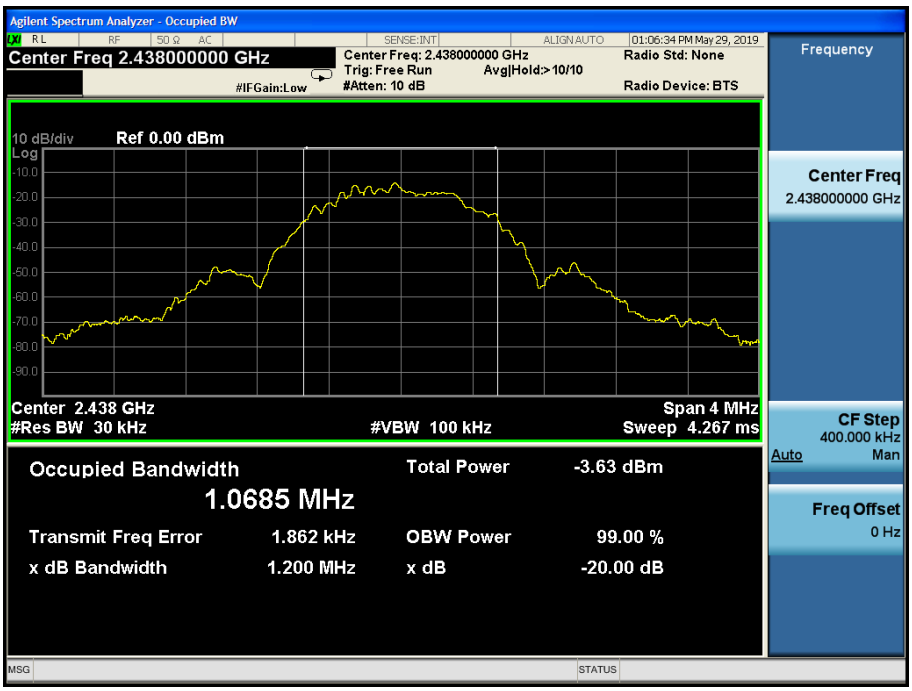
PASS

Frequency	20dB Bandwidth (MHz)	Result
2406 MHz	1.206	PASS
2438MHz	1.200	PASS
2472 MHz	1.198	PASS

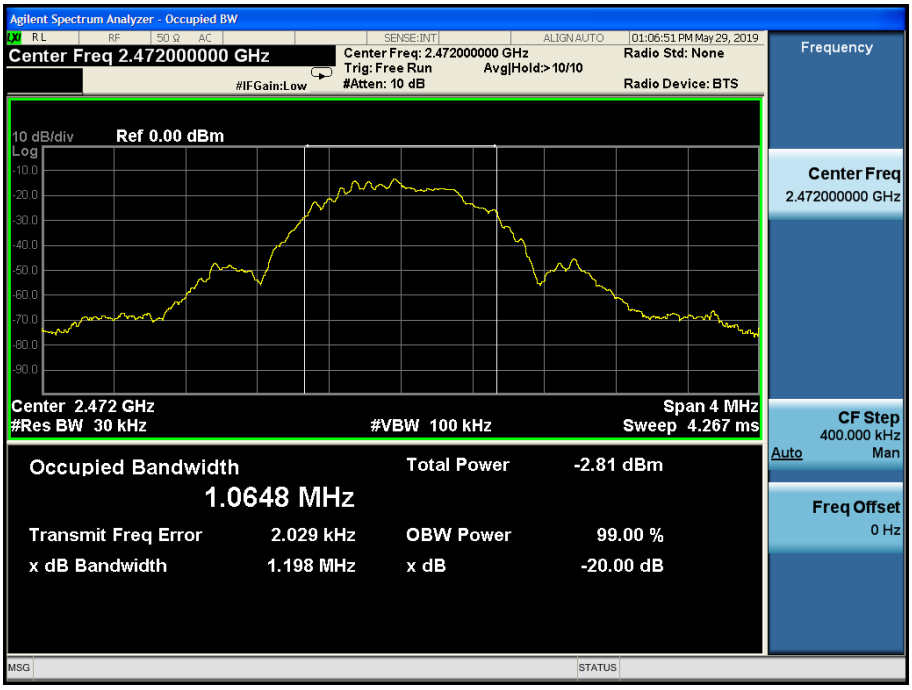
CH: 2406MHz



CH: 2438MHz



CH: 2472MHz



7 ANTENNA REQUIREMENT

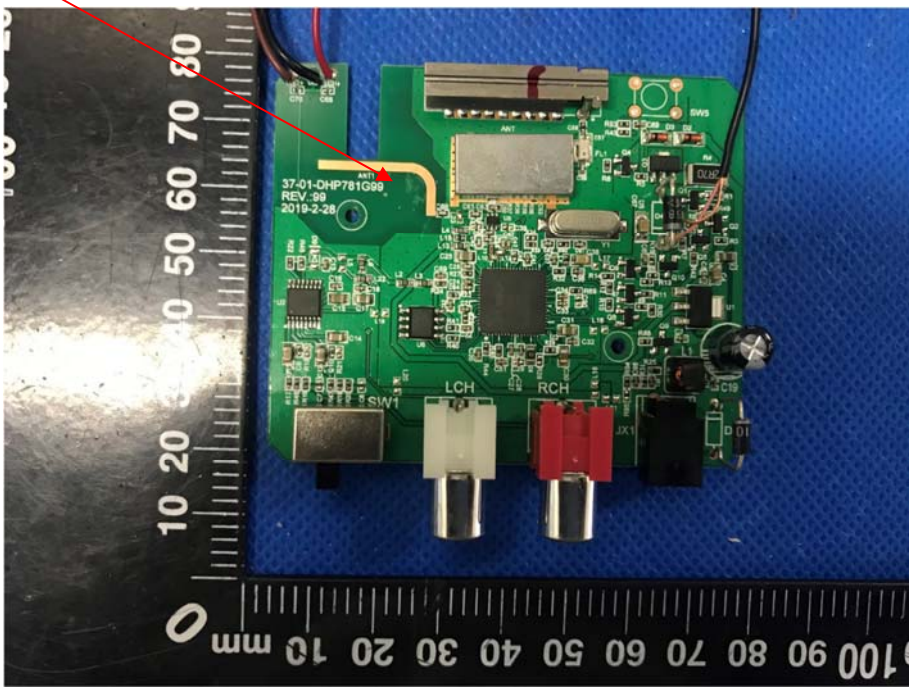
Standard Applicable

For intentional device, according to FCC 47 CFR Section 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. And according to FCC 47 CFR Section 15.249, if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

Antenna Connected Construction

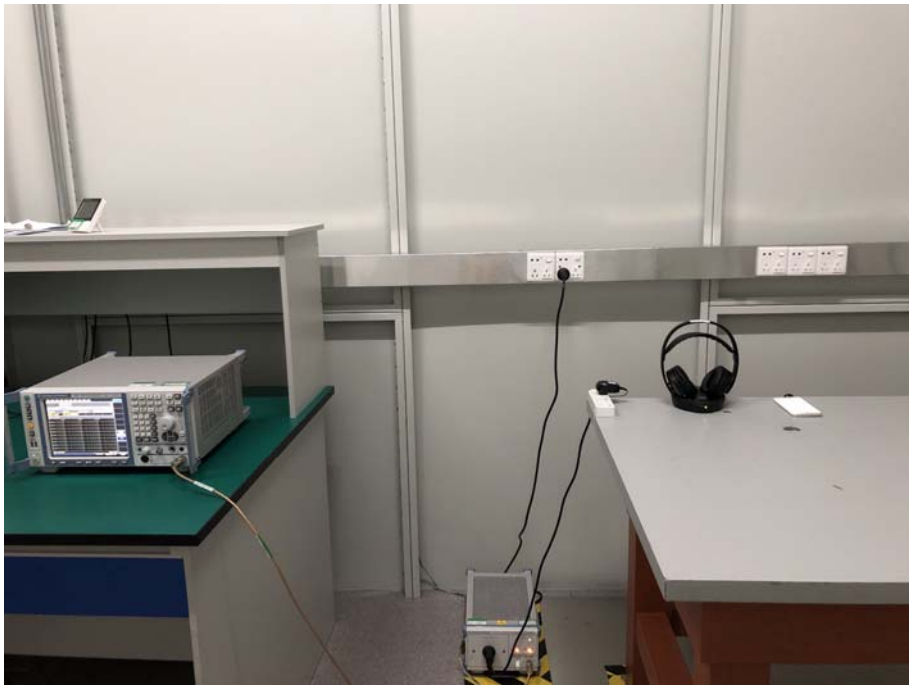
The antenna used in this product is a PCB Antenna, The directional gains of antenna used for transmitting is 0dBi.

ANTENNA

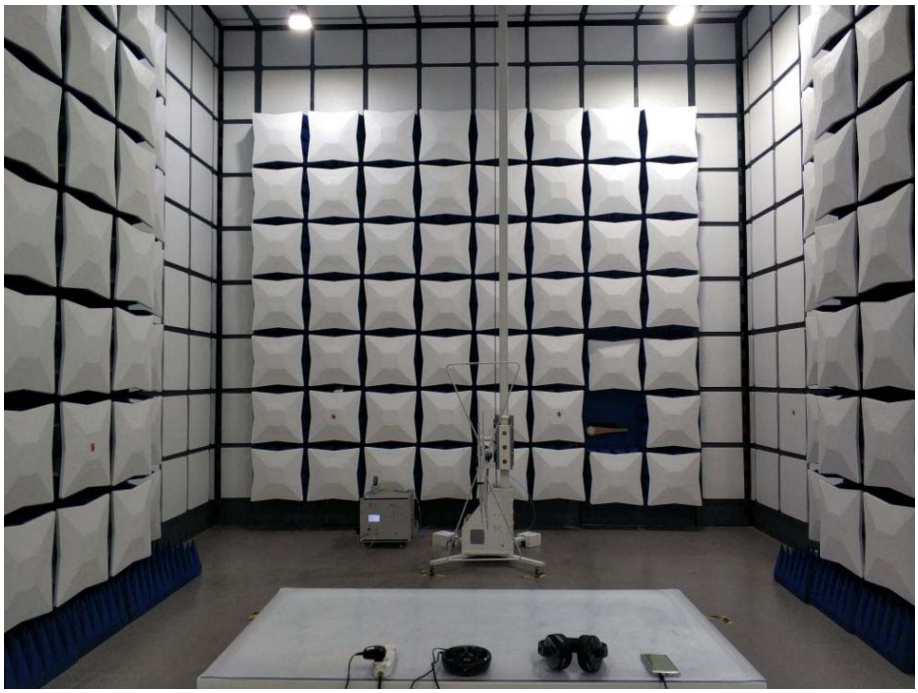


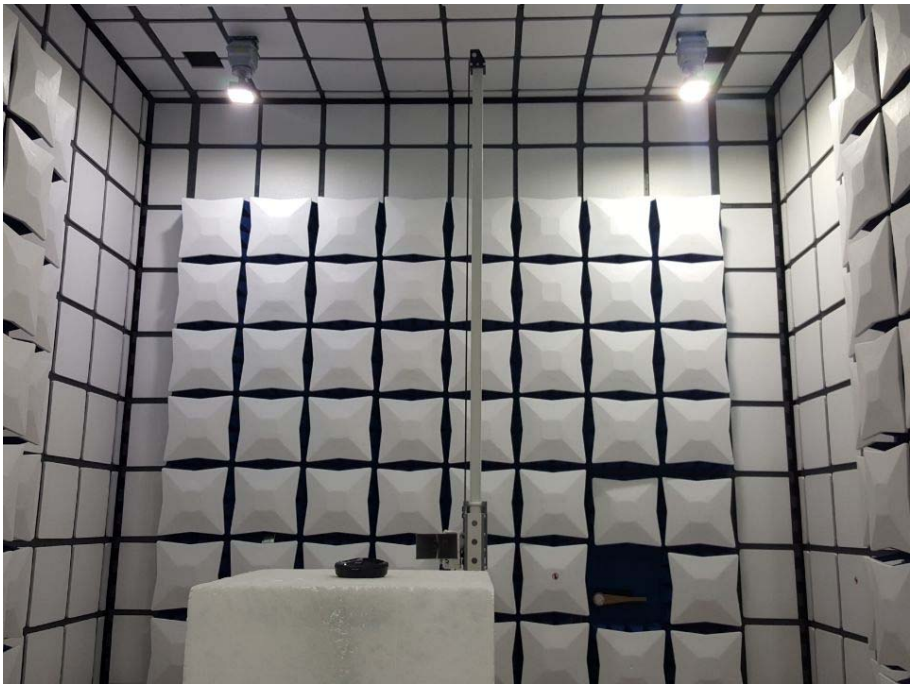
8 PHOTOGRAPH OF TEST

8.1 Conducted Emission



8.2 Radiated Emission





9 PHOTOS OF THE EUT

Reference to the reporter : ANNEX A of external photos and ANNEX B of internal photos

---------End of test report---------