



# FCC TEST REPORT

**Test report**

**On Behalf of**

**MARKETING OLFATIVO SL**

**For**

**TRACE MIST & SOUND**

**Model No.: 915ENEB015**

**FCC ID: 2AUOI-915ENEB015**

**Prepared for:** **MARKETING OLFATIVO SL**  
**CALLE LAS MEDRANAS 33, CP 29670 MARBELLA, MALAGA, SPAIN**

**Prepared By:** **Shenzhen HUAKE Testing Technology Co., Ltd.**  
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**Bao'an District, Shenzhen City, China**

**Date of Test:** **Sep. 10, 2019 ~ Sep. 20, 2019**

**Date of Report:** **Sep. 20, 2019**

**Report Number:** **HK1909202381-2E**



## TEST RESULT CERTIFICATION

**Applicant's name** .....: MARKETING OLFATIVO SL  
CALLE LAS MEDRANAS 33, CP 29670 MARBELLA, MALAGA,  
**Address**.....: SPAIN

**Manufacture's Name**.....: Hangzhou Felshare Biotechnology Co., Ltd  
3/F BUILDING 4, NO.1672 NANHUAN ROAD, BINJIANG  
**Address**.....: DISTRICT, HANGZHOU, ZHEJIANG, CHINA

### Product description

**Trade Mark:** N/A  
**Product name** .....: TRACE MIST & SOUND  
**Model and/or type reference** .: 915ENE015

**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**.....: Sep. 10, 2019 ~ Sep. 20, 2019  
**Date of Issue**.....: Sep. 20, 2019  
**Test Result**.....: **Pass**

Testing Engineer : \_\_\_\_\_

(Gary Qian)

Technical Manager : \_\_\_\_\_

(Eden Hu)

Authorized Signatory : \_\_\_\_\_

(Jason Zhou)



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## 1. TEST SUMMARY

### 1.1 TEST PROCEDURES AND RESULTS

DESCRIPTION OF TEST		RESULT
15.207	Conducted Emission	COMPLIANT
15.249&15.209	Fundamental & Radiated Spurious Emission Measurement	COMPLIANT
15.215	Bandwidth	COMPLIANT
15.205	Band Edge Emission	COMPLIANT
15.203	Antenna Requirement	COMPLIANT

### 1.2 TEST FACILITY

Test Firm : Shenzhen HUAKE 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	TRACE MIST & SOUND
Model Name	915ENEB015
Serial No.	N/A
Trade Mark	N/A
Model Difference	N/A
FCC ID	<b>2AUOI-915ENEB015</b>
Antenna Type	Internal Antenna
Antenna Gain	1dBi
BT Operation frequency	2402-2480MHz
Number of Channels	40CH
Modulation Type	GFSK
Battery	N/A
Power Source	DC12V from adapter with AC 120/240V 50/60Hz
Adapter Model	Input: 120/240V, 50/60Hz Output: DC 12V 1.3A



## 2.2 Carrier Frequency of Channels

Channel List							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

## 2.3 Operation of EUT during testing

Operating Mode

The mode is used: **Transmitting mode**

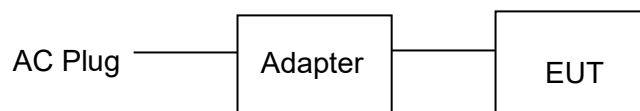
Low Channel: 2402MHz

Middle Channel: 2440MHz

High Channel: 2480MHz

## 2.4 DESCRIPTION OF TEST SETUP

Operation of EUT :





## 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. 28, 2018	1 Year
2.	Receiver	R&S	ESCI 7	HKE-010	Dec. 28, 2018	1 Year
3.	RF automatic control unit	Tonscend	JS0806-2	HKE-060	Dec. 28, 2018	1 Year
4.	Spectrum analyzer	R&S	FSP40	HKE-025	Dec. 28, 2018	1 Year
5.	Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 28, 2018	1 Year
6.	Preamplifier	Schwarzbeck	BBV 9743	HKE-006	Dec. 28, 2018	1 Year
7.	EMI Test Receiver	Rohde & Schwarz	ESCI 7	HKE-010	Dec. 28, 2018	1 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	HKE-012	Dec. 28, 2018	1 Year
9.	Loop Antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Dec. 28, 2018	1 Year
10.	Horn Antenna	Schwarzbeck	9120D	HKE-013	Dec. 28, 2018	1 Year
11.	Pre-amplifier	EMCI	EMC051845 SE	HKE-015	Dec. 28, 2018	1 Year
12.	Pre-amplifier	Agilent	83051A	HKE-016	Dec. 28, 2018	1 Year
13.	EMI Test Software EZ-EMC	Tonscend	JZOZtheBO T120-B Version	HKE-083	N/A	N/A
14.	Power Sensor	Agilent	E9300A	HKE-086	Dec. 28, 2018	1 Year
15.	Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 28, 2018	1 Year
16.	Signal generator	Agilent	N5182A	HKE-029	Dec. 28, 2018	1 Year
17.	Signal Generator	Agilent	83630A	HKE-028	Dec. 28, 2018	1 Year
18.	Shielded room	Shiel Hong	4*3*3	HKE-039	Dec. 28, 2017	3 Year
19.	Hf antenna	Schwarzbeck	LB-180400- KF	HKE-031	Dec. 28, 2018	1 Year



### 3. CONDUCTED EMISSIONS TEST

#### 3.1 Conducted Power Line Emission Limit

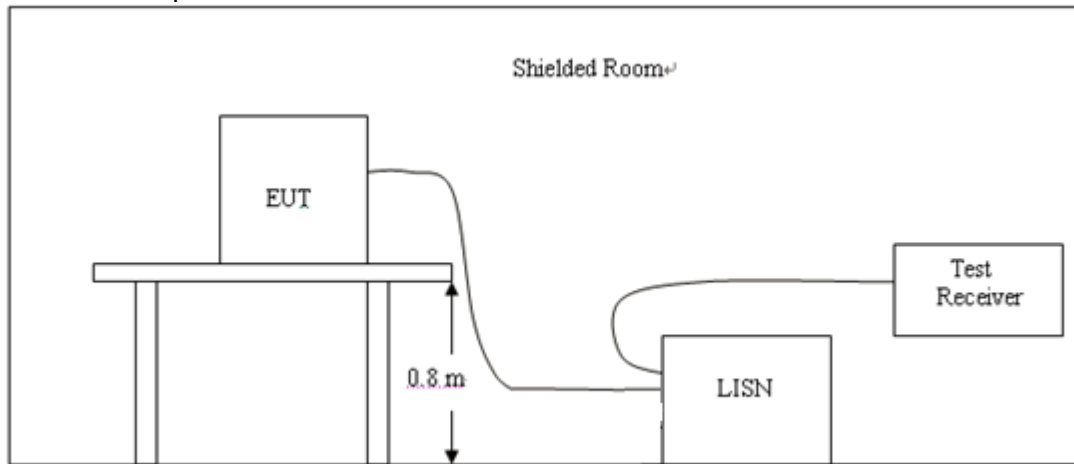
For unintentional device, according to § 15.207(a) Line Conducted Emission Limits is as following

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

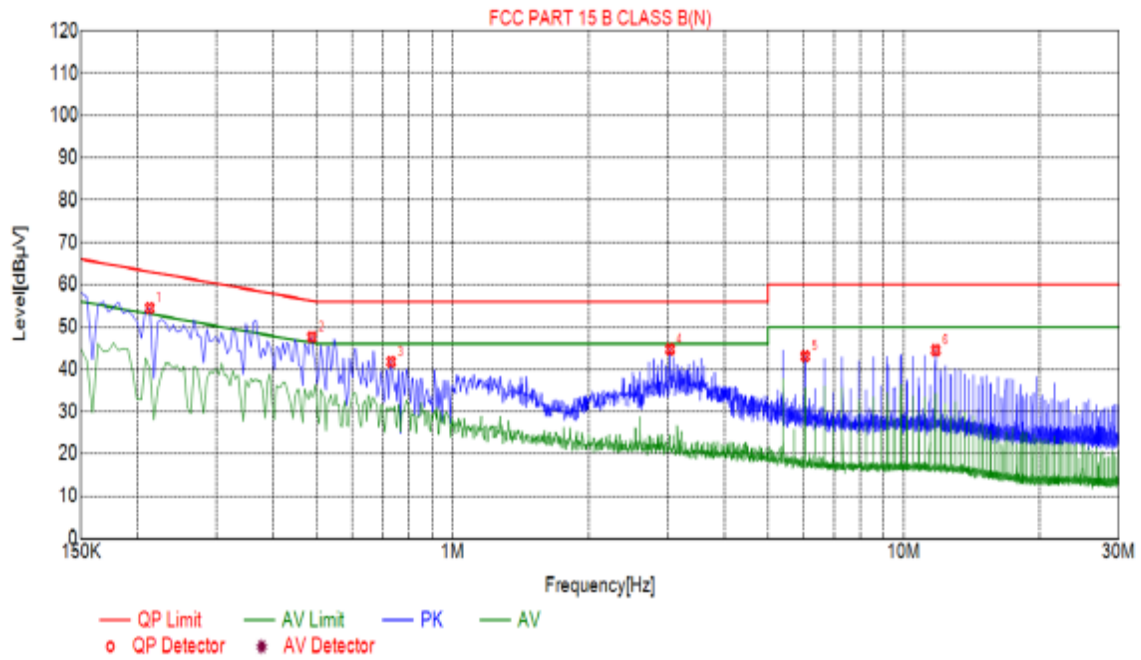
PASS

1. All modes were tested at AC 120V and 240V, only the worst result of AC 120V 60Hz was reported.
2. All modes of Low, Middle, and High channel were tested, only the worst result of Low Channel was reported as below:





Test Specification: Neutral



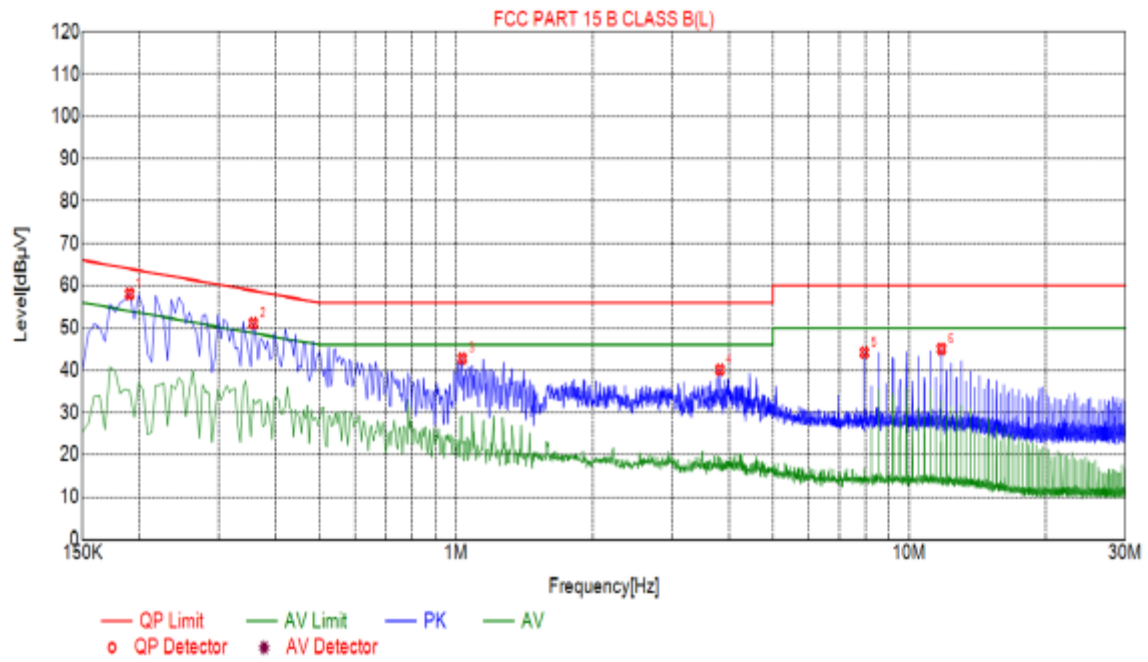
Suspected List						
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Detector
1	0.2130	54.47	10.05	63.09	8.62	PK
2	0.4875	47.59	10.04	56.21	8.62	PK
3	0.7305	41.81	10.06	56.00	14.19	PK
4	3.0345	44.73	10.22	56.00	11.27	PK
5	6.0495	43.07	10.23	60.00	16.93	PK
6	11.7780	44.53	9.99	60.00	15.47	PK

Remark:

Factor = Cable loss + LISN factor, Margin = Limit – Level



Test Specification: Line



Suspected List						
NO.	F req. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Detector
1	0.1905	58.07	10.04	64.02	5.95	PK
2	0.3570	51.13	10.03	58.80	7.67	PK
3	1.0320	42.77	10.07	56.00	13.23	PK
4	3.8220	40.14	10.25	56.00	15.86	PK
5	7.9620	44.22	10.15	60.00	15.78	PK
6	11.7780	46.05	9.99	60.00	14.95	PK

Remark:

Factor = Cable loss + LISN factor, Margin = Limit – Level

## 4 RADIATED EMISSION TEST

### 4.1 Radiation Limit

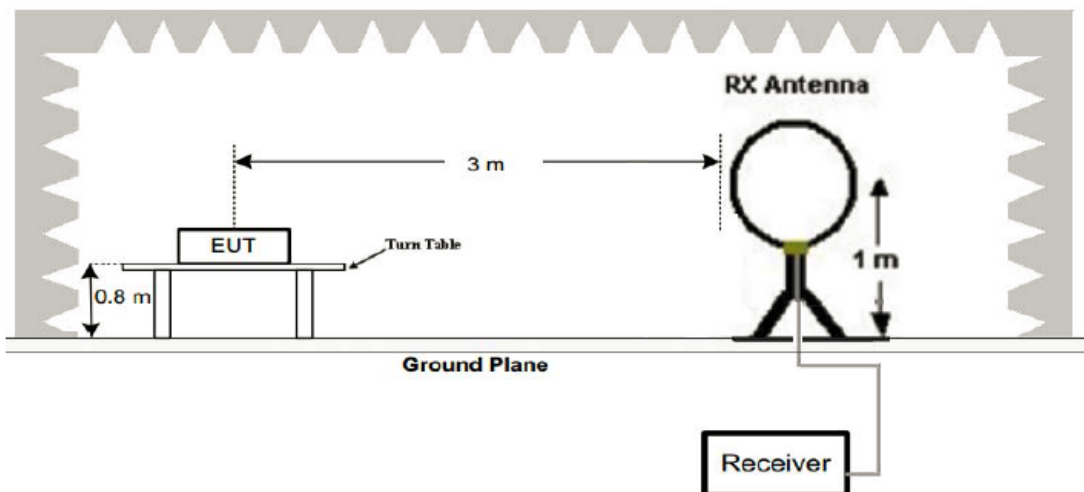
For unintentional device, according to § 15.209(a), except for Class B digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency (MHz)	Distance (Meters)	Radiated (dB $\mu$ V/m)	Radiated ( $\mu$ V/m)
30-88	3	40	100
88-216	3	43.5	150
216-960	3	46	200
Above 960	3	54	500

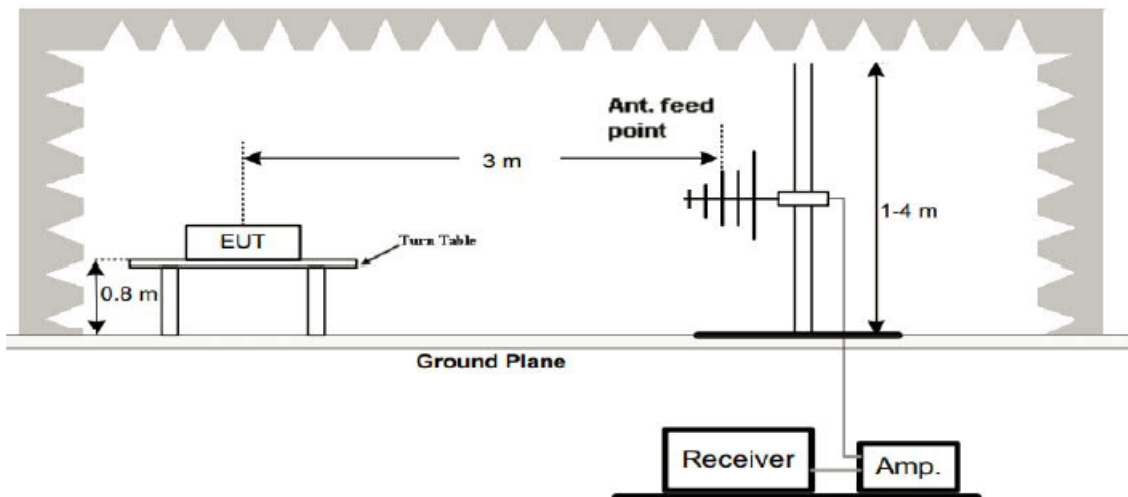
For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table.

### 4.2 Test Setup

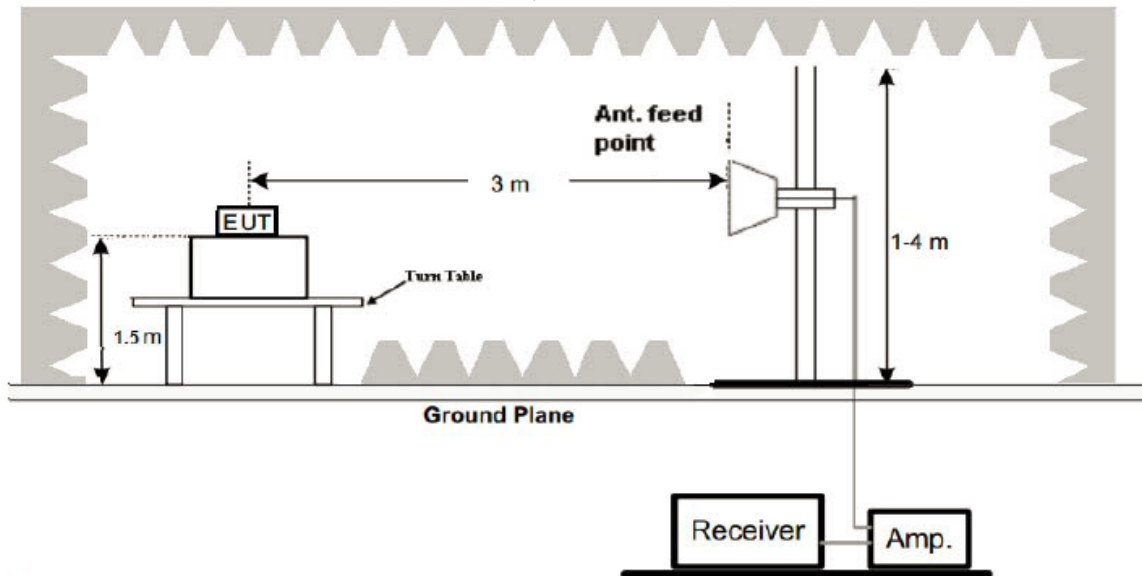
#### (1) Radiated Emission Test-Up Frequency Below 30MHz



#### (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

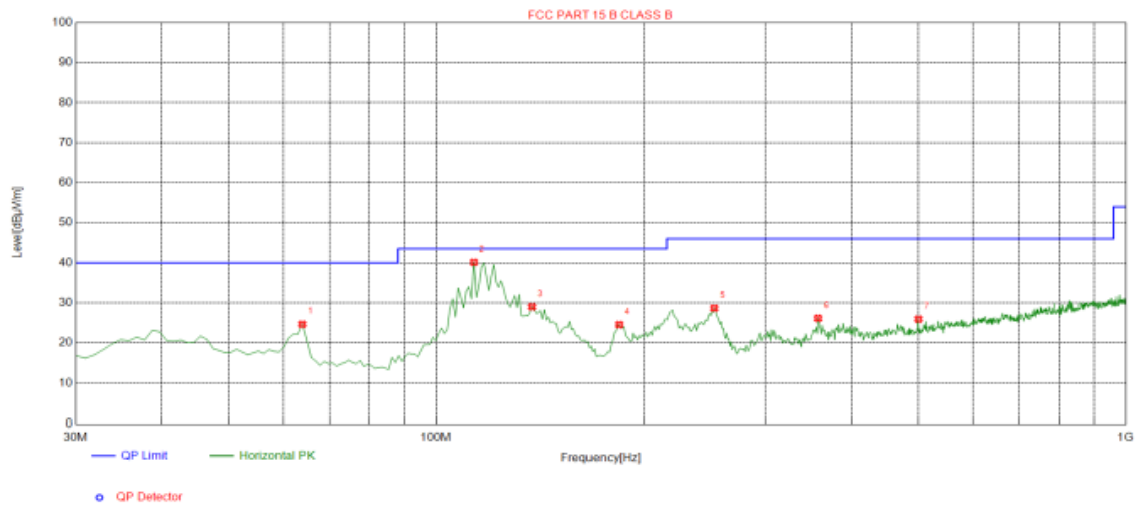
#### Remark:

1. All the test modes completed for test. The worst case of Radiated Emission is Low channel, the test data of this mode was reported.
2. By preliminary testing and verifying three axis (X, Y and Z) position of EUT transmitted status, it was found that "Z axis" position was the worst, and test data recorded in this report.
3. Radiated emission test from 9KHz to 10th harmonic of fundamental was verified, and no emission found except system noise floor in 9KHz to 30MHz and not recorded in this report.



Below 1GHz Test Results:

Antenna polarity: H



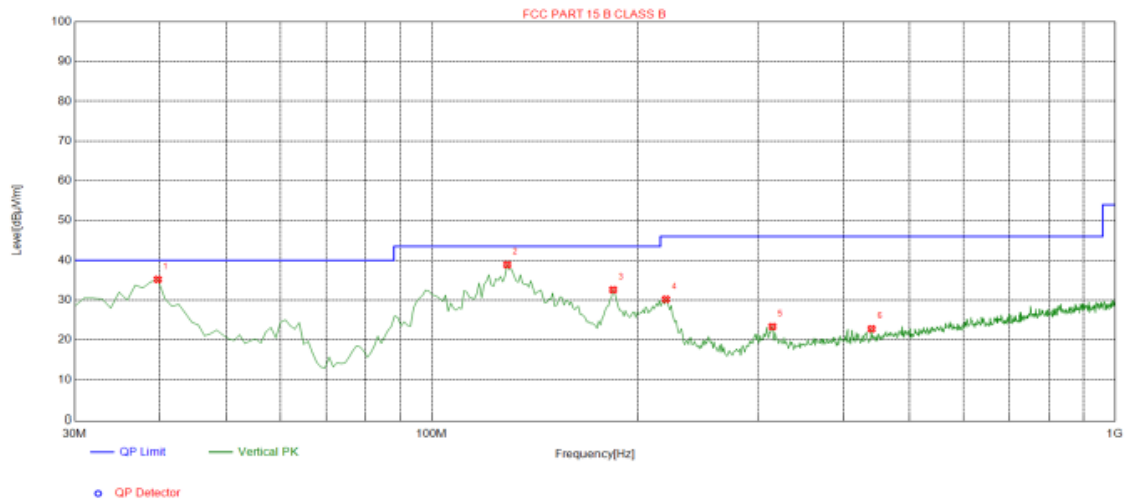
**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	63.9500	24.65	-16.15	40.00	15.35	100	53	Horizontal
2	113.420	40.12	-16.00	43.50	3.38	100	153	Horizontal
3	137.670	29.01	-19.04	43.50	14.49	100	118	Horizontal
4	184.230	24.56	-16.50	43.50	18.94	100	236	Horizontal
5	253.100	28.67	-13.43	46.00	17.33	100	0	Horizontal
6	357.860	26.14	-11.42	46.00	19.86	100	348	Horizontal
7	500.450	25.93	-8.29	46.00	20.07	100	281	Horizontal

Remark: Factor= Cableloss + 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	39.7000	35.19	-14.64	40.00	4.81	100	12	Vertical
2	128.940	38.90	-18.41	43.50	4.60	100	274	Vertical
3	184.230	32.59	-16.50	43.50	10.91	100	262	Vertical
4	220.120	30.21	-14.56	46.00	15.79	100	316	Vertical
5	315.180	23.33	-12.35	46.00	22.67	100	356	Vertical
6	440.310	22.77	-9.41	46.00	23.23	100	139	Vertical

Remark: Factor = Cableloss + 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 (2402MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
2402	108.88	-5.84	103.04	114	-10.96	peak
2402	95.77	-5.84	89.93	94	-4.07	AVG
4804	56.48	-3.64	52.84	74	-21.16	peak
4804	47.75	-3.64	44.11	54	-9.89	AVG
7206	58.81	-0.95	57.86	74	-16.14	peak
7206	48.33	-0.95	47.38	54	-6.62	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits+9:11

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
2402	108.46	-5.84	102.62	114	-11.38	peak
2402	95.46	-5.84	89.62	94	-4.38	AVG
4804	56.34	-3.64	52.70	74	-21.30	peak
4804	47.17	-3.64	43.53	54	-10.47	AVG
7206	58.19	-0.95	57.24	74	-16.76	peak
7206	48.20	-0.95	47.25	54	-6.75	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits



## CH Middle (2440MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
2440	108.09	-5.71	102.38	114	-11.62	peak
2440	93.03	-5.71	87.32	94	-6.68	AVG
4880	56.11	-3.51	52.60	74	-21.40	peak
4880	46.99	-3.51	43.48	54	-10.52	AVG
7320	57.87	-0.82	57.05	74	-16.95	peak
7320	47.71	-0.82	46.89	54	-7.11	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
2440	108.03	-5.71	102.32	114	-11.68	peak
2440	93.00	-5.71	87.29	94	-6.71	AVG
4880	56.02	-3.51	52.51	74	-21.49	peak
4880	46.94	-3.51	43.43	54	-10.57	AVG
7320	57.98	-0.82	57.16	74	-16.84	peak
7320	47.88	-0.82	47.06	54	-6.94	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits





## CH High (2480MHz)

## Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
2480	108.28	-5.65	102.63	114	-11.37	peak
2480	93.22	-5.65	87.57	94	-6.43	AVG
4960	56.16	-3.43	52.73	74	-21.27	peak
4960	47.47	-3.43	44.04	54	-9.96	AVG
7440	57.29	-0.75	56.54	74	-17.46	peak
7440	47.62	-0.75	46.87	54	-7.13	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits

## Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
2480	107.31	-5.65	101.66	114	-12.34	peak
2480	92.69	-5.65	87.04	94	-6.96	AVG
4960	56.01	-3.43	52.58	74	-21.42	peak
4960	47.45	-3.43	44.02	54	-9.98	AVG
7440	56.96	-0.75	56.21	74	-17.79	peak
7440	47.46	-0.75	46.71	54	-7.29	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits

## 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) RBW > 20dB BW, VBW>=3XRBW, PK detector for PK value, RMS detector for AV value
- (8) 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. RBW 1MHz VBW 3MHz PK detector is for PK value, RBW 1MHz VBW 10Hz PK detector is for AV value. 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 (2402MHz)

Horizontal (Worst case)

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2310	55.95	-5.81	50.14	74	-23.86	peak
2310	/	-5.81	/	54	/	AVG
2390	53.48	-5.84	47.64	74	-26.36	peak
2390	/	-5.84	/	54	/	AVG
2400	52.69	-5.84	46.85	74	-27.15	peak
2400	/	-5.84	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits

Vertical:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2310	54.95	-5.81	49.14	74	-24.86	peak
2310	/	-5.81	/	54	/	AVG
2390	52.12	-5.84	46.28	74	-27.72	peak
2390	/	-5.84	/	54	/	AVG
2400	51.74	-5.84	45.9	74	-28.1	peak
2400	/	-5.84	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits



Operation Mode: TX CH High (2480MHz)

Horizontal (Worst case)

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
2483.50	55.93	-5.65	50.28	74	-23.72	peak
2483.50	/	-5.65	/	54	/	AVG
2500.00	53.94	-5.65	48.29	74	-25.71	peak
2500.00	/	-5.65	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB $\mu$ V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)	
2483.50	54.59	-5.81	48.78	74.00	-25.22	peak
2483.50	/	-5.81	/	54.00	/	AVG
2500.00	53.00	-6.06	46.94	74.00	-27.06	peak
2500.00	/	-6.06	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits

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= 100KHz. VBW= 300KHz, Span=2MHz.
4. The useful radiated emission from the EUT was detected by the spectrum analyser with peak detector.

#### 6.3 Measurement Equipment Used

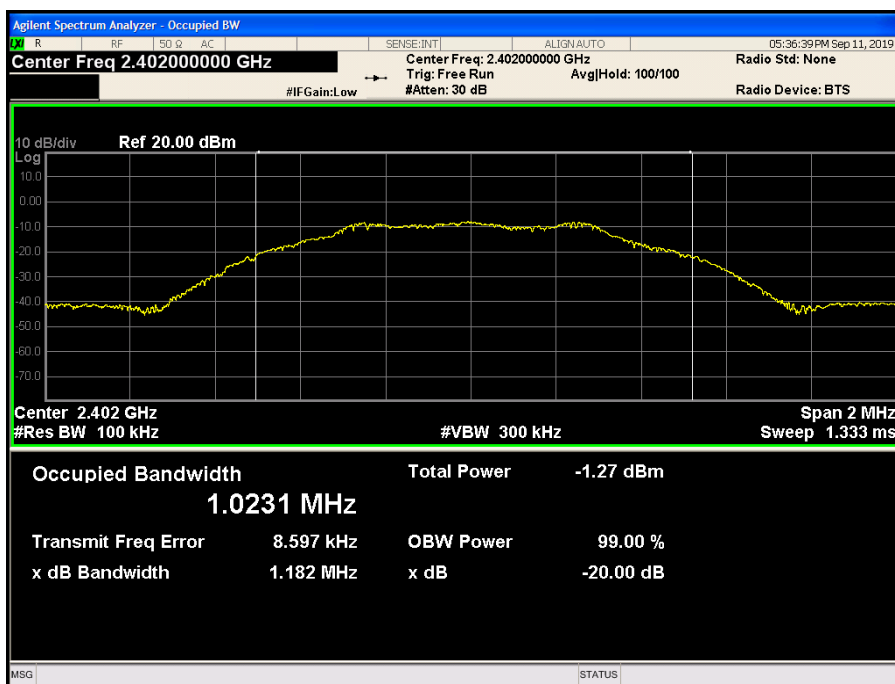
Same as Radiated Emission Measurement

#### 6.4 Test Result

**PASS**

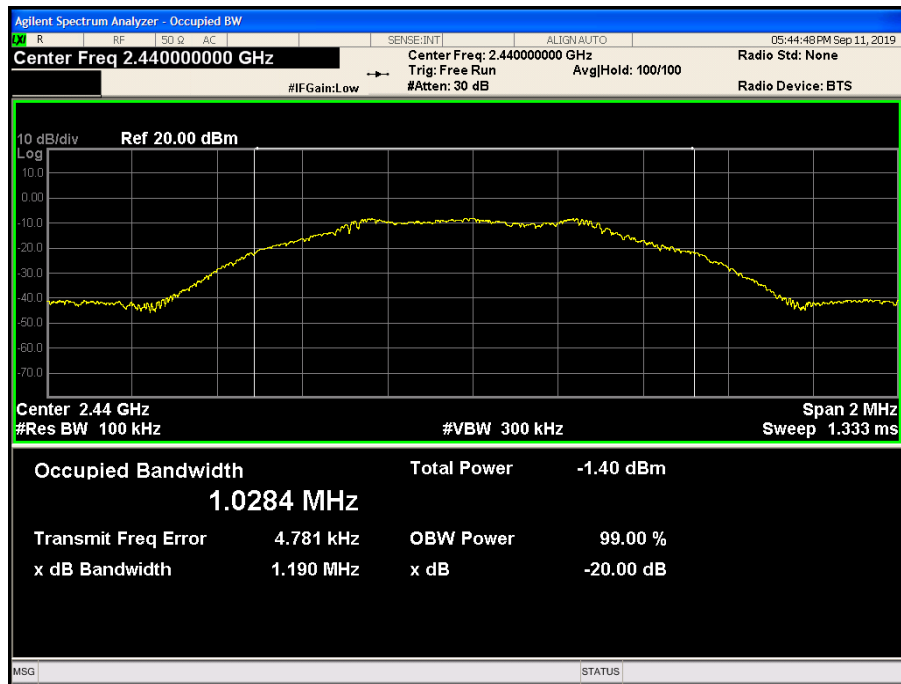
Frequency	20dB Bandwidth (MHz)	Result
2402 MHz	1.1822	<b>PASS</b>
2440 MHz	1.1902	<b>PASS</b>
2480 MHz	1.1905	<b>PASS</b>

CH: 2402MHz

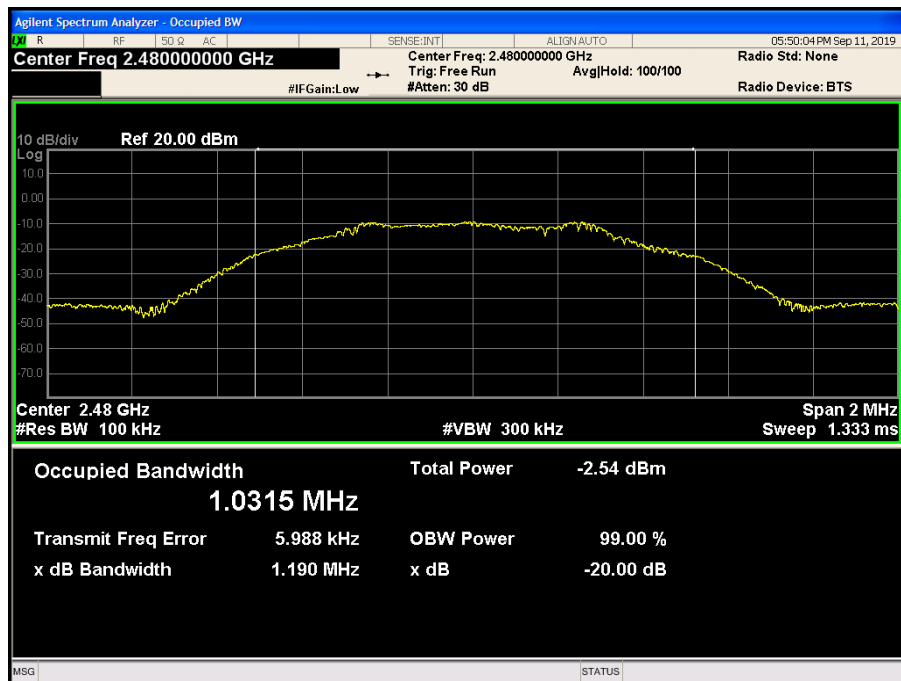




CH: 2440MHz



CH: 2480MHz





## 7 ANTENNA REQUIREMENT

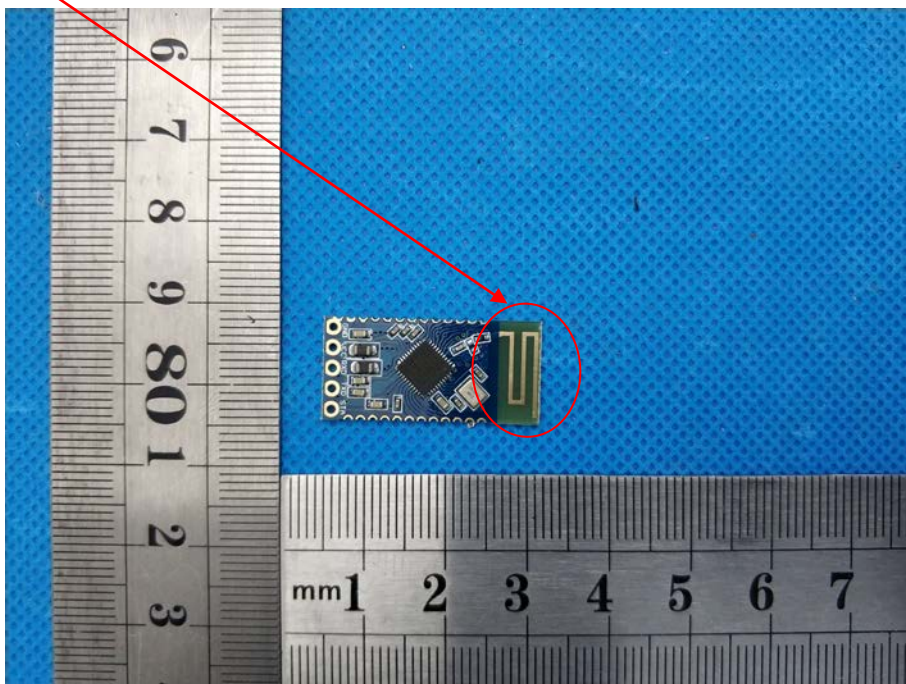
### Standard Applicable

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

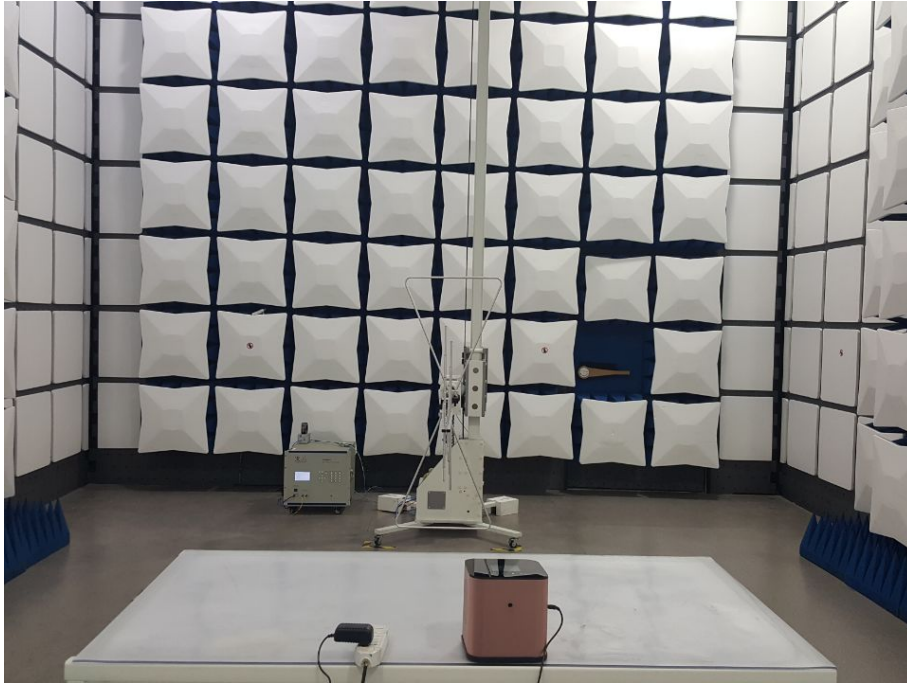
The antenna used in this product is Internal Antenna, the directional gains of antenna used for transmitting is 1dBi.

### BT ANTENNA



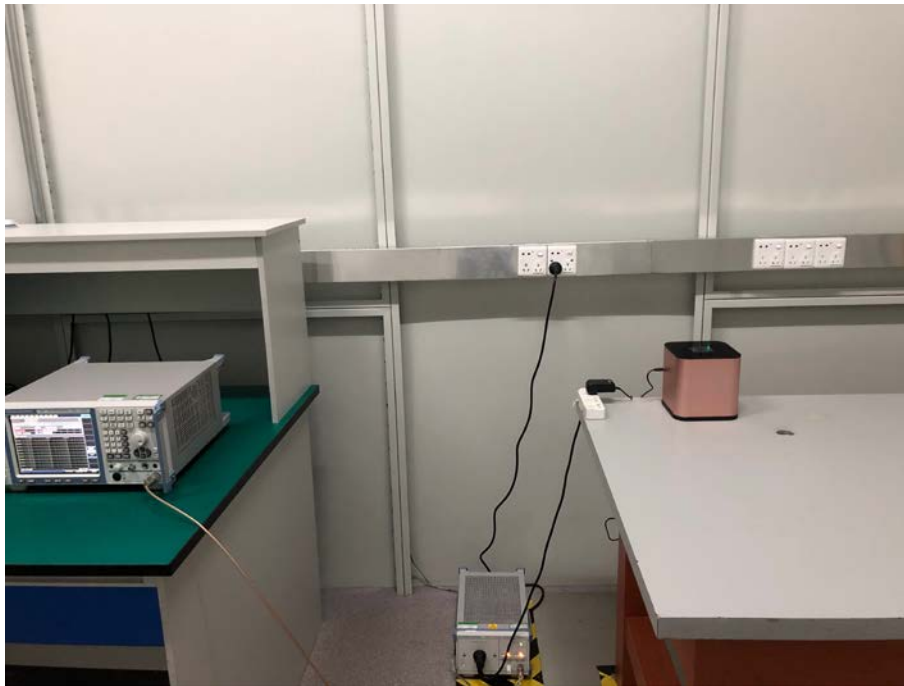
### 8 PHOTOGRAPH OF TEST

#### Radiated Emission





### Conducted Emission



\*\*\*End of Report\*\*\*