

# FCC TEST REPORT

Client Name : Guangzhou Winson Information Technology Co., Ltd.

Address : 1st Floor, Block C, Yuean Industrial Park, No.59  
Huangcun Road, Dongpu Town, Tianhe District,  
Guangzhou, Guangdong, China 510660

Product Name : BARCODE SCANNER

Date : Jun. 12, 2019

## Shenzhen Anbotek Compliance Laboratory Limited

**Shenzhen Anbotek Compliance Laboratory Limited**

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Code:AB-RF-05-a

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# TEST REPORT

Applicant : Guangzhou Winson Information Technology Co., Ltd.  
Manufacturer : Guangzhou Winson Information Technology Co., Ltd.  
Product Name : BARCODE SCANNER  
Model No. : WNI-6214, WNI-6013, WNI-5213, WNI-6213, WNI-6223, WNI-7223,  
WNC-5083, WNC-6083, WNC-6093, WNC-6084, WNL-6003, WNL-6004,  
WNI-5223, WNI-6224, WNC-5084, WNC-584, WNC-594, WNI-5014, WNI-514,  
WNI-524  
Trade Mark : N.A.  
Rating(s) : Input: DC 5V, 2A(with DC 3.7V, 2000mAh Battery inside)

**Test Standard(s)** : FCC Part15 Subpart C 2018, Section 15.247

**Test Method(s)** : ANSI C63.10: 2013, KDB558074 D01 DTS Meas Guidance v05

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart C requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt

May 22, 2019

Date of Test

May 22~Jun. 06, 2019

Prepared By

(Engineer / Oliay Yang)



Oliay Yang

Reviewer

Snowy Meng

(Supervisor / Snowy Meng)

Approved & Authorized Signer

(Manager / Sally Zhang)

Sally Zhang

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## 1. General Information

### 1.1. Client Information

Applicant	:	Guangzhou Winson Information Technology Co., Ltd.
Address	:	1st Floor, Block C, Yuean Industrial Park, No.59 Huangcun Road, Dongpu Town, Tianhe District, Guangzhou, Guangdong, China 510660
Manufacturer	:	Guangzhou Winson Information Technology Co., Ltd.
Address	:	1st Floor, Block C, Yuean Industrial Park, No.59 Huangcun Road, Dongpu Town, Tianhe District, Guangzhou, Guangdong, China 510660
Factory	:	Guangzhou Winson Information Technology Co., Ltd.
Address	:	1st Floor, Block C, Yuean Industrial Park, No.59 Huangcun Road, Dongpu Town, Tianhe District, Guangzhou, Guangdong, China 510660

### 1.2. Description of Device (EUT)

Product Name	:	BARCODE SCANNER	
Model No.	:	WNI-6214, WNI-6013, WNI-5213, WNI-6213, WNI-6223, WNI-7223, WNC-5083, WNC-6083, WNC-6093, WNC-6084, WNL-6003, WNL-6004, WNI-5223, WNI-6224, WNC-5084, WNC-584, WNC-594, WNI-5014, WNI-514, WNI-524 (Note: All samples are the same except the appearance, so we prepare "WNI-6214" for test only.)	
Trade Mark	:	N.A.	
Test Power Supply	:	AC 240V, 60Hz for adapter / AC 120V, 60Hz for adapter/ DC 3.7V Battery inside	
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)	
Product Description	Operation Frequency:	BT 4.2 EDR & BT 4.2 BLE: 2402~2480MHz	
	Transfer Rate:	BT 4.2 EDR: 1/2/3 Mbits/s BT 4.2 BLE: 1 Mbits/s	
	Number of Channel:	BT 4.2 EDR: 79 Channels BT 4.2 BLE: 40 Channels	
	Modulation Type:	BT 4.2 EDR: GFSK, π/4-DQPSK, 8-DPSK BT 4.2 BLE: GFSK	
	Antenna Type:	BT 4.2 EDR & BT 4.2 BLE: Ceramic Antenna	
	Antenna Gain(Peak):	BT 4.2 EDR & BT 4.2 BLE: 0 dBi	
<b>Remark:</b> 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. 2) This report is for BT 4.2 BLE module.			

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### 1.3. Auxiliary Equipment Used During Test

Adapter	:	Manufacturer: Lenovo Model: PA-1650-16I S/N:11S92P1158Z1ZD2HISKOL4 Input: 100V-240V~ 50/60Hz, 1.5A Output: DC 5V, 2A
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### 1.4. Description of Test Modes

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description	
Mode 1	CH00	TX+ Charging Mode/ TX Only
Mode 2	CH19	
Mode 3	CH39	

#### Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The data rate was set in 1Mbps for radiated emission due to the highest RF output power.

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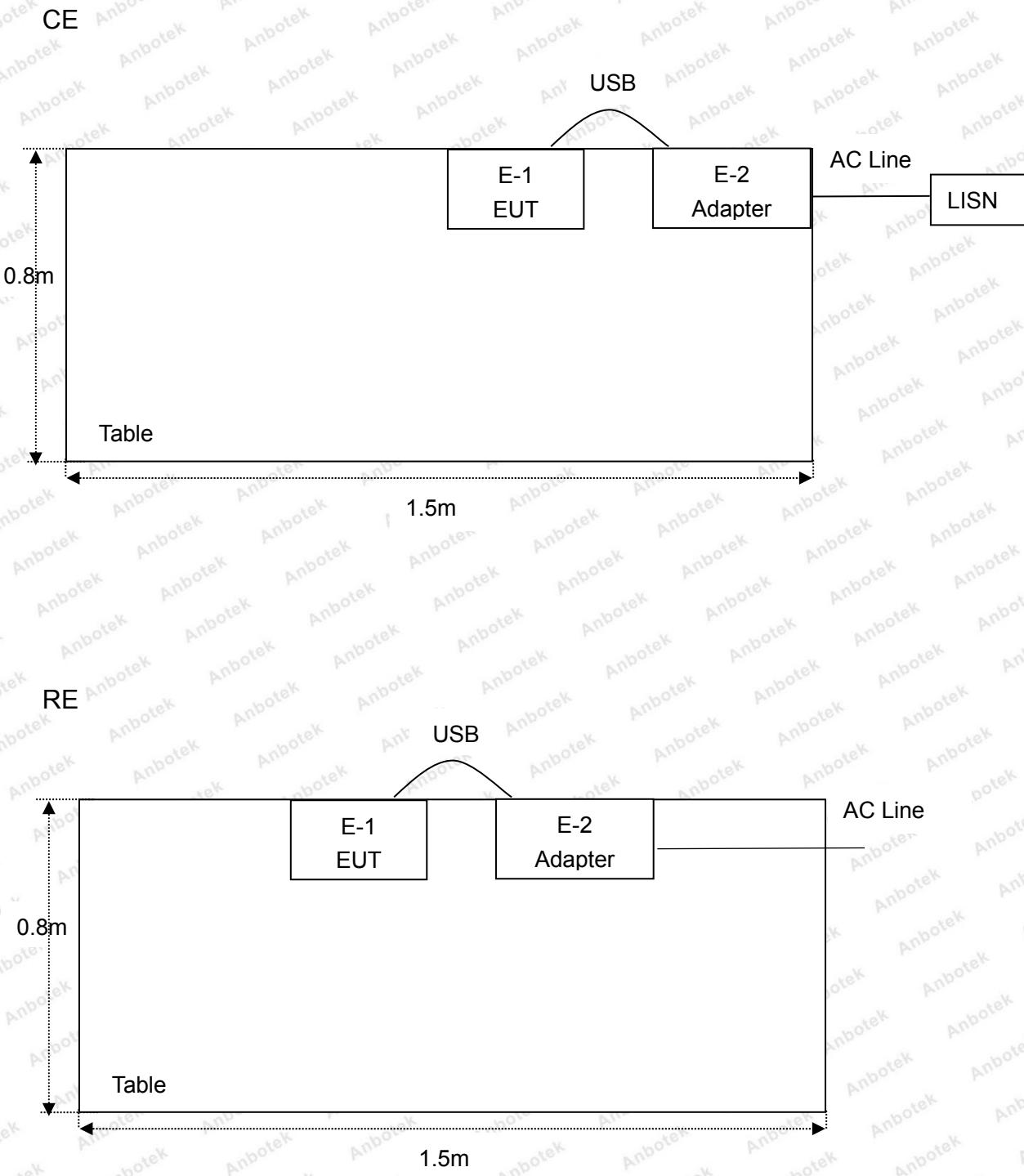
**1.5. List of channels**

Channel	Freq. (MHz)								
00	2402	09	2420	18	2438	27	2456	36	2474
01	2404	10	2422	19	2440	28	2458	37	2476
02	2406	11	2424	20	2442	29	2460	38	2478
03	2408	12	2426	21	2444	30	2462	39	2480
04	2410	13	2428	22	2446	31	2464		
05	2412	14	2430	23	2448	32	2466		
06	2414	15	2432	24	2450	33	2468		
07	2416	16	2434	25	2452	34	2470		
08	2418	17	2436	26	2454	35	2472		

**Note:**

1. The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.
2. EUT built-in battery-powered, fully-charged battery use of the test battery.

### 1.6. Description Of Test Setup



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## 1.7. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Nov. 26, 2018	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESPI3	101604	Nov. 05, 2018	1 Year
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Nov. 05, 2018	1 Year
4.	Spectrum Analysis	Agilent	E4407B	US39390582	Nov. 05, 2018	1 Year
5.	MAX Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 05, 2018	1 Year
6.	Preamplifier	SKET Electronic	BK1G18G30D	KD17503	Nov. 05, 2018	1 Year
7.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 20, 2018	1 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Nov. 19, 2018	1 Year
9.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Nov. 20, 2018	1 Year
10.	Horn Antenna	A-INFO	LB-180400-KF	J211060628	Nov. 20, 2018	1 Year
11.	Pre-amplifier	SONOMA	310N	186860	Nov. 05, 2018	1 Year
12.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
13.	RF Test Control System	YIHENG	YH3000	2017430	Nov. 05, 2018	1 Year
14.	Power Sensor	DAER	RPR3006W	15I00041SN045	Nov. 05, 2018	1 Year
15.	Power Sensor	DAER	RPR3006W	15I00041SN046	Nov. 05, 2018	1 Year
16.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 05, 2018	1 Year
17.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Nov. 05, 2018	1 Year
18.	Signal Generator	Agilent	E4421B	MY41000743	Nov. 05, 2018	1 Year
19.	DC Power Supply	LW	TPR-6420D	374470	Oct. 31, 2018	1 Year
20.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80B	N/A	Nov. 01, 2018	1 Year

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## 1.8. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)
		Ur = 3.8 dB (Vertical)
Conduction Uncertainty	:	Uc = 3.4 dB

## 1.9. Description of Test Facility

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

### FCC-Registration No.: 184111

Shenzhen Anbotek Compliance Laboratory Limited, 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 No. 184111, July 31, 2017.

### ISED-Registration No.: 8058A-1

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A-1, June 13, 2016.

### Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. 518102

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## 2. Summary of Test Results

Standard Section	Test Item	Result
15.203/15.247(c)	Antenna Requirement	PASS
15.207	Conducted Emission	PASS
15.205/15.209	Spurious Emission	PASS
15.247(b)(3)	Conducted Peak Output Power	PASS
15.247(a)(2)	6dB Occupied Bandwidth	PASS
15.247(e)	Power Spectral Density	PASS
15.247(d)	Band Edge	PASS

**Remark:** "N/A" is an abbreviation for Not Applicable.

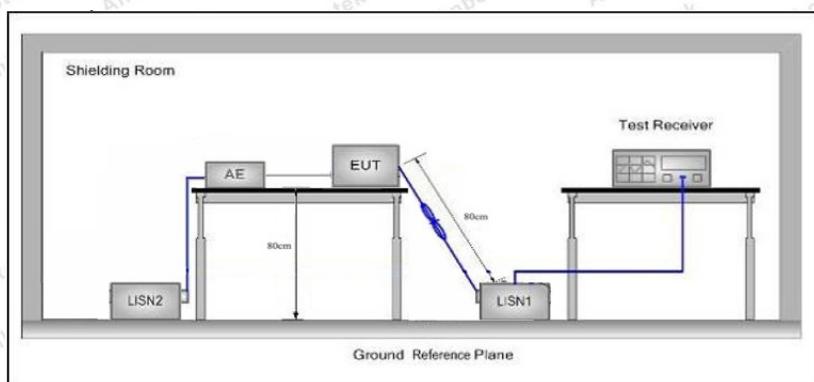
### 3. Conducted Emission Test

#### 3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.207		
Test Limit	Frequency	Maximum RF Line Voltage (dBuV)	
		Quasi-peak Level	Average Level
	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
	500kHz~5MHz	56	46
	5MHz~30MHz	60	50

**Remark:** (1) \*Decreasing linearly with logarithm of the frequency.  
(2) The lower limit shall apply at the transition frequency.

#### 3.2. Test Setup



#### 3.3. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.10-2013 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

#### 3.4. Test Data

During the test, pre-scan all the modes, and found Low channel(TX+Charging Mode) which is the worst case, only the worst case is recorded in the report.

Please to see the following pages.

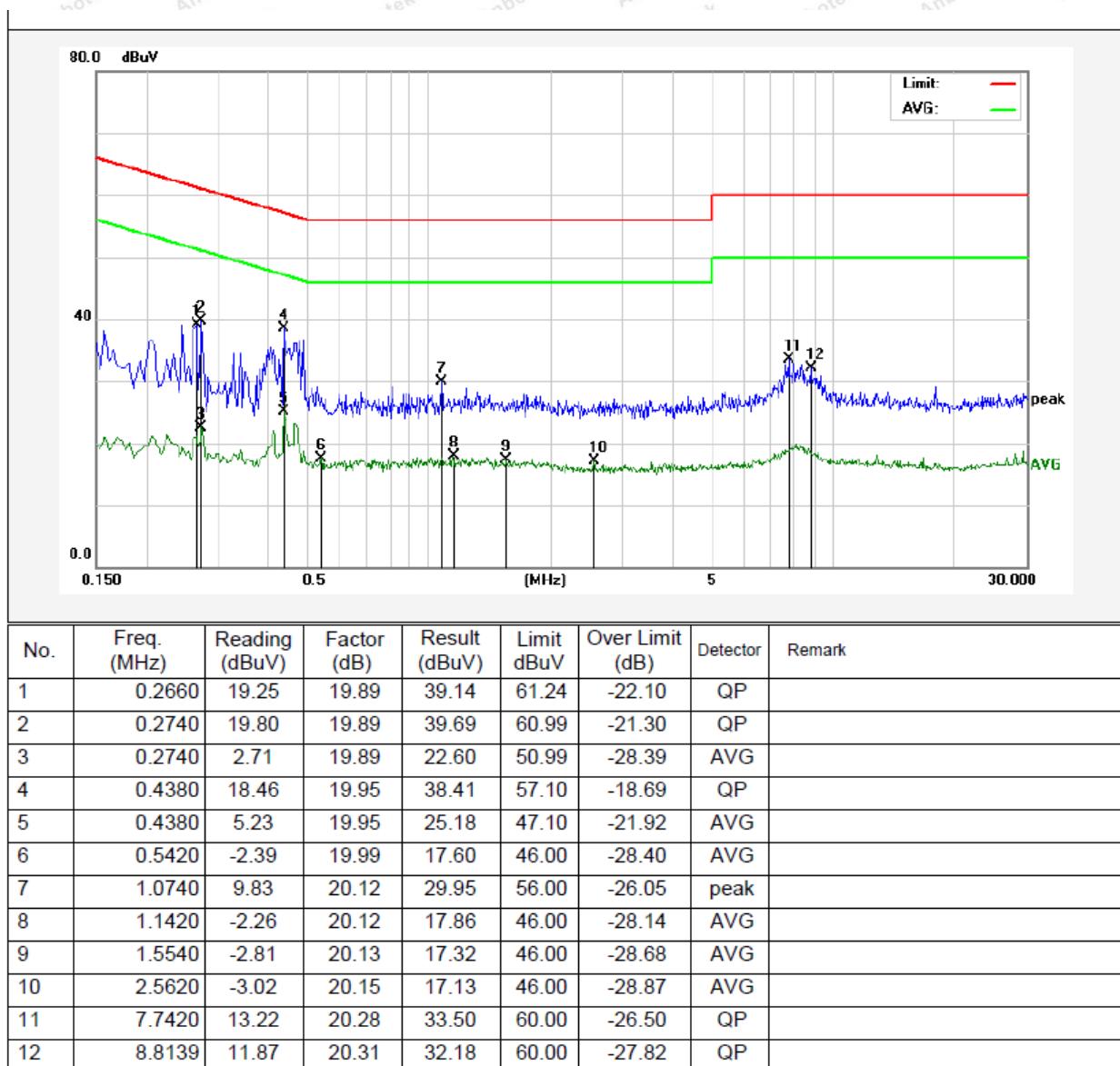
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### Conducted Emission Test Data

Test Site: 1# Shielded Room  
 Operating Condition: CH00  
 Test Specification: AC 240V, 60Hz for adapter  
 Comment: Live Line  
 Tem.: 21.8°C Hum.: 53%



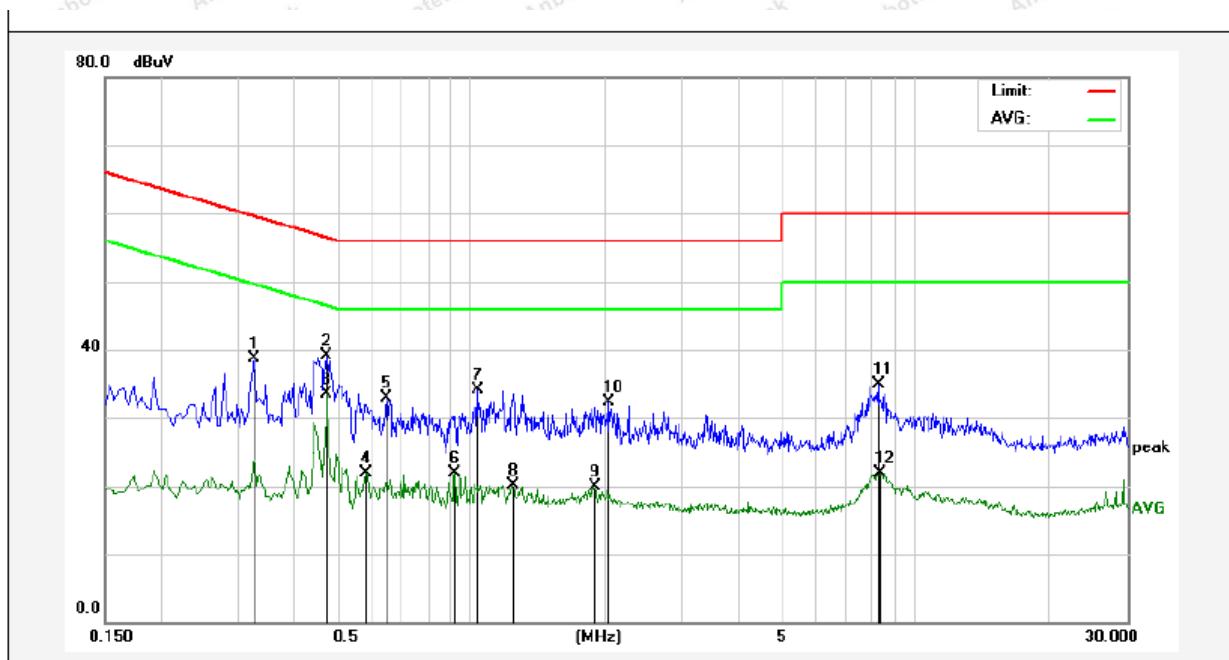
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**Conducted Emission Test Data**

Test Site: 1# Shielded Room  
Operating Condition: CH00  
Test Specification: AC 240V, 60Hz for adapter  
Comment: Neutral Line  
Tem.: 21.8°C Hum.: 53%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.3260	18.76	19.90	38.66	59.55	-20.89	QP	
2	0.4740	19.19	19.97	39.16	56.44	-17.28	QP	
3	0.4740	13.46	19.97	33.43	46.44	-13.01	AVG	
4	0.5820	1.88	20.00	21.88	46.00	-24.12	AVG	
5	0.6460	12.81	20.02	32.83	56.00	-23.17	QP	
6	0.9220	1.78	20.10	21.88	46.00	-24.12	AVG	
7	1.0339	13.98	20.12	34.10	56.00	-21.90	QP	
8	1.2380	0.04	20.12	20.16	46.00	-25.84	AVG	
9	1.8940	-0.23	20.14	19.91	46.00	-26.09	AVG	
10	2.0420	12.17	20.14	32.31	56.00	-23.69	QP	
11	8.2580	14.62	20.29	34.91	60.00	-25.09	QP	
12	8.3620	1.60	20.30	21.90	50.00	-28.10	AVG	

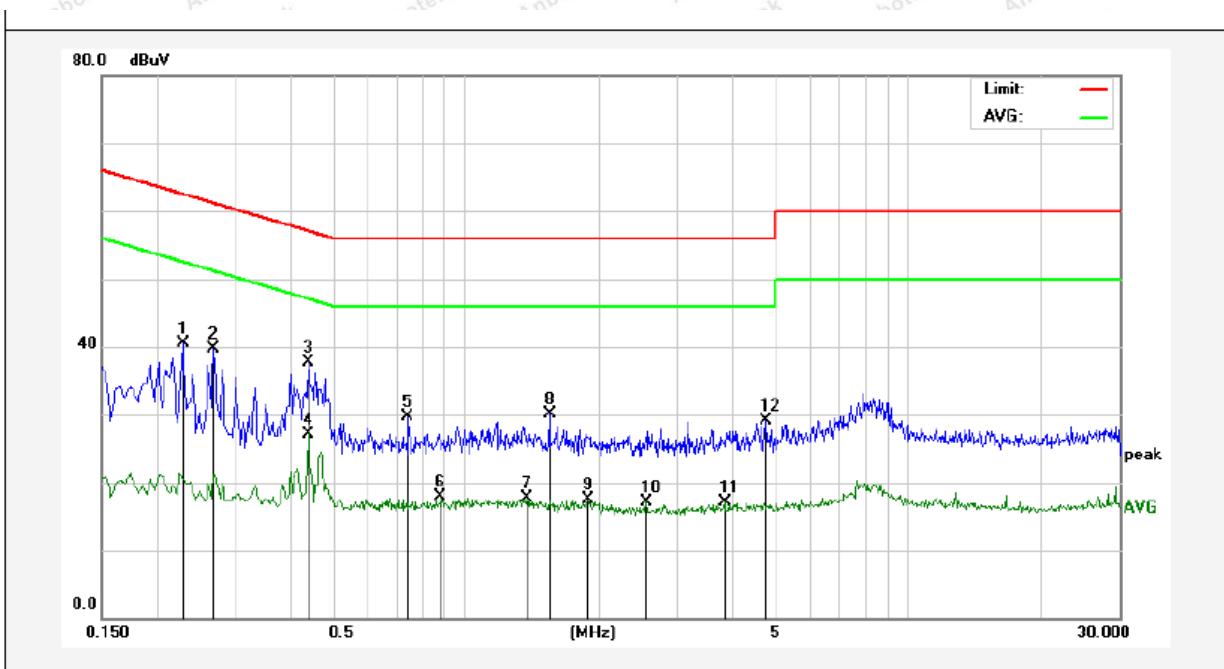
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**Conducted Emission Test Data**

Test Site: 1# Shielded Room  
Operating Condition: CH00  
Test Specification: AC 120V, 60Hz for adapter  
Comment: Live Line  
Tem.: 21.8°C Hum.: 53%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.2300	20.65	19.89	40.54	62.45	-21.91	QP	
2	0.2700	19.86	19.89	39.75	61.12	-21.37	QP	
3	0.4420	17.70	19.95	37.65	57.02	-19.37	QP	
4	0.4420	7.25	19.95	27.20	47.02	-19.82	AVG	
5	0.7420	9.68	20.05	29.73	56.00	-26.27	QP	
6	0.8780	-2.27	20.09	17.82	46.00	-28.18	AVG	
7	1.3779	-2.37	20.13	17.76	46.00	-28.24	AVG	
8	1.5460	9.97	20.13	30.10	56.00	-25.90	QP	
9	1.8900	-2.70	20.14	17.44	46.00	-28.56	AVG	
10	2.5620	-3.09	20.15	17.06	46.00	-28.94	AVG	
11	3.8420	-2.99	20.18	17.19	46.00	-28.81	AVG	
12	4.7740	8.94	20.20	29.14	56.00	-26.86	QP	

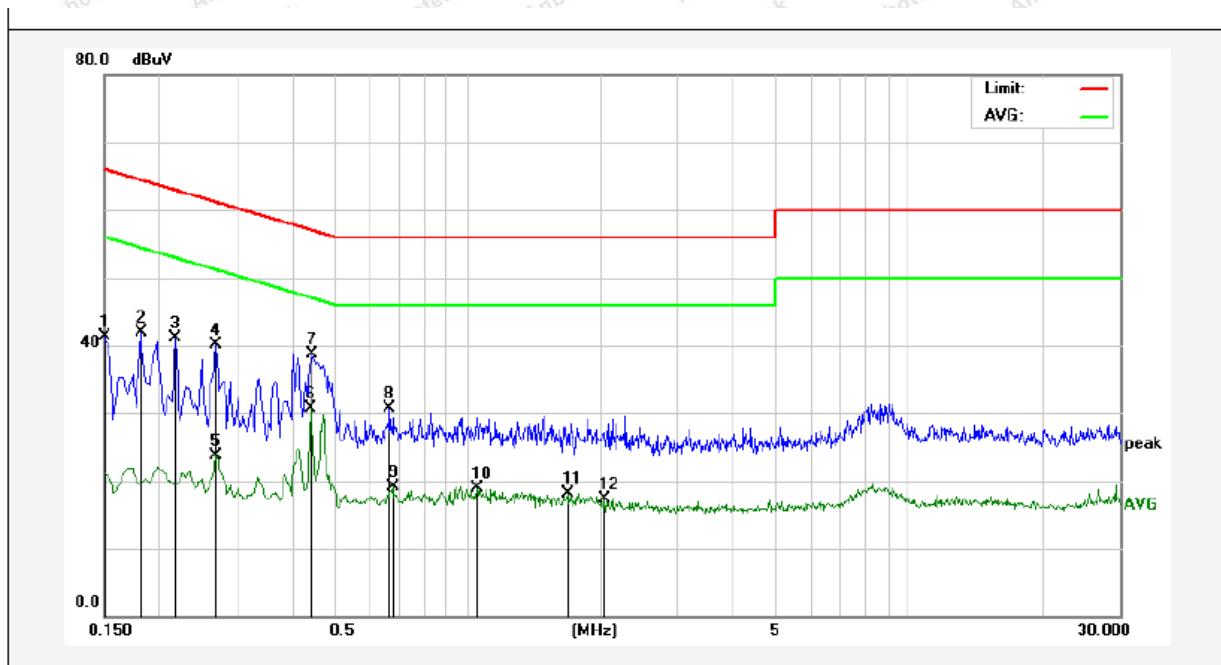
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### Conducted Emission Test Data

Test Site: 1# Shielded Room  
 Operating Condition: CH00  
 Test Specification: AC 120V, 60Hz for adapter  
 Comment: Neutral Line  
 Tem.: 21.8°C Hum.: 53%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1500	21.32	19.90	41.22	65.99	-24.77	peak	
2	0.1819	22.00	19.90	41.90	64.39	-22.49	peak	
3	0.2180	21.15	19.90	41.05	62.89	-21.84	peak	
4	0.2700	20.17	19.89	40.06	61.12	-21.06	peak	
5	0.2700	3.76	19.89	23.65	51.12	-27.47	AVG	
6	0.4420	10.76	19.95	30.71	47.02	-16.31	AVG	
7	0.4460	18.72	19.96	38.68	56.95	-18.27	peak	
8	0.6660	10.73	20.03	30.76	56.00	-25.24	peak	
9	0.6780	-0.90	20.03	19.13	46.00	-26.87	AVG	
10	1.0500	-1.19	20.12	18.93	46.00	-27.07	AVG	
11	1.6820	-2.00	20.13	18.13	46.00	-27.87	AVG	
12	2.0540	-2.80	20.14	17.34	46.00	-28.66	AVG	

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## 4. Radiation Spurious Emission and Band Edge

### 4.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.209 and 15.205				
Test Limit	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz~1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz~30MHz	30	-	-	30
	30MHz~88MHz	100	40.0	Quasi-peak	3
	88MHz~216MHz	150	43.5	Quasi-peak	3
	216MHz~960MHz	200	46.0	Quasi-peak	3
	960MHz~1000MHz	500	54.0	Quasi-peak	3
	Above 1000MHz	500	54.0	Average	3
		-	74.0	Peak	3

**Remark:**

(1)The lower limit shall apply at the transition frequency.

(2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

### 4.2. Test Setup

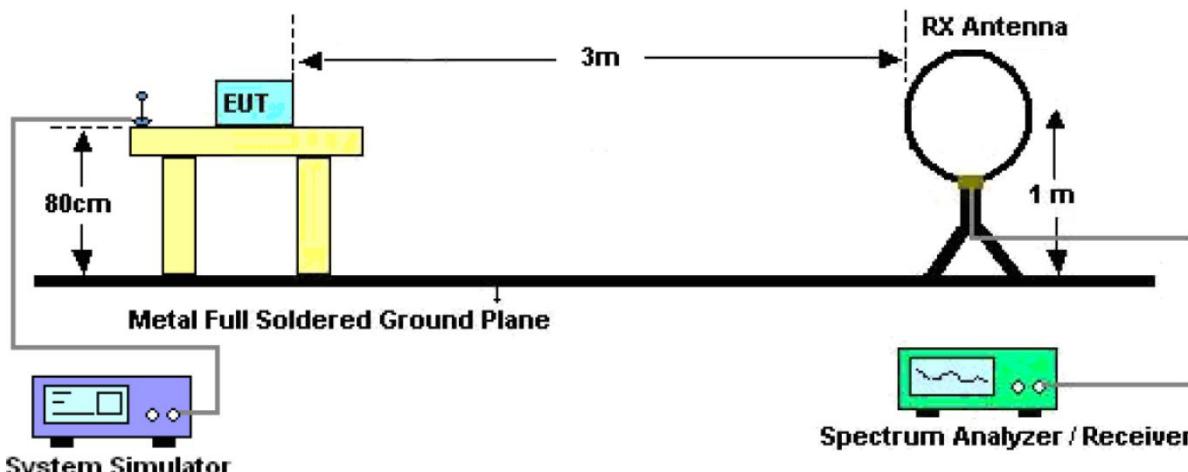


Figure 1. Below 30MHz

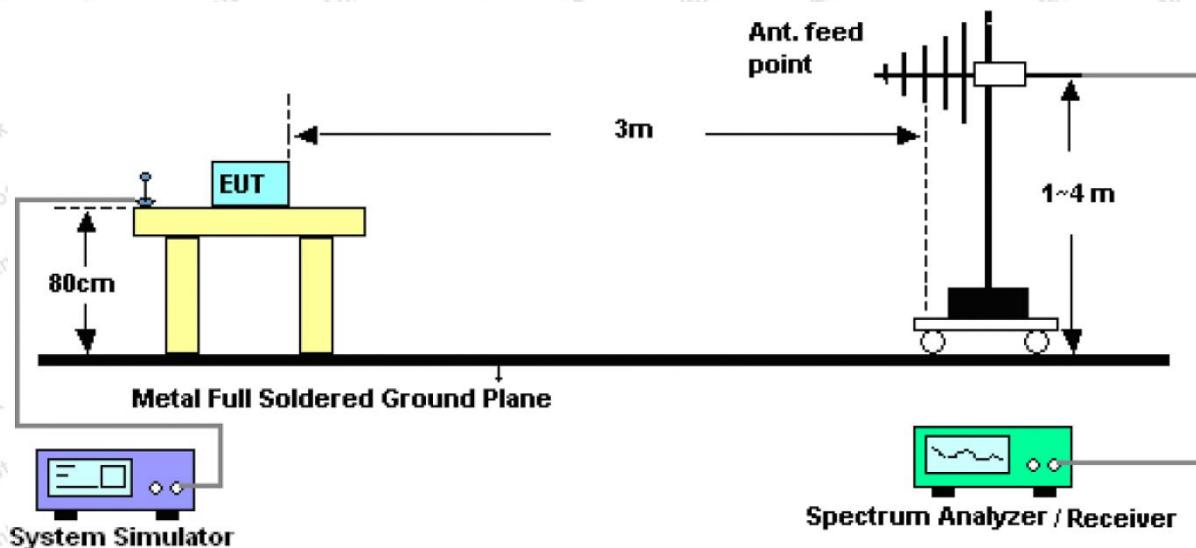


Figure 2. 30MHz to 1GHz

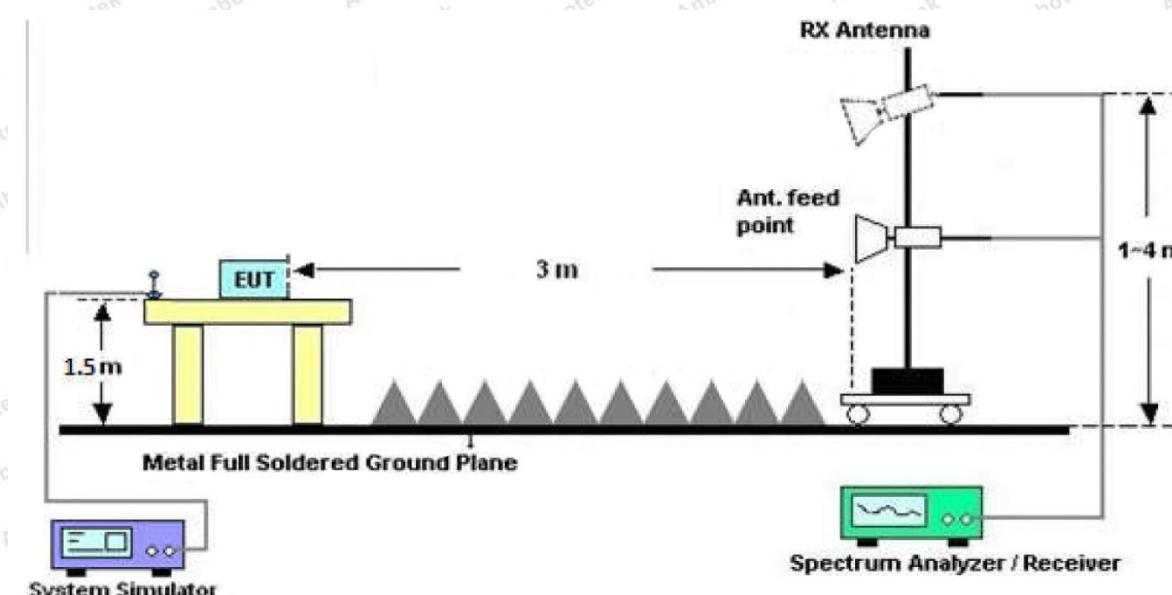


Figure 3. Above 1 GHz

#### 4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.

For above 1GHz: The EUT is placed on a turntable, which is 1.5m above the ground plane.

The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9\*6\*6 Chamber. The device is evaluated in xyz orientation.

For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW = 200Hz, VBW =1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:

RBW = 9KHz, VBW =30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as:

RBW = 100kHz, VBW =300kHz,Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For above 1GHz,Set the spectrum analyzer as:

RBW =1MHz, VBW =1MHz, Detector= Peak, Trace mode= Max hold, Sweep- auto couple.

RBW =1MHz, VBW =10Hz, Detector= Average, Trace mode= Max hold, Sweep- auto couple.

#### 4.4. Test Data

**PASS**

During the test, pre-scan the GFSK modulation, and found the GFSK modulation Low channel which is the worst case, only the worst case is recorded in the report.

The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

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**Test Results (30~1000MHz)**

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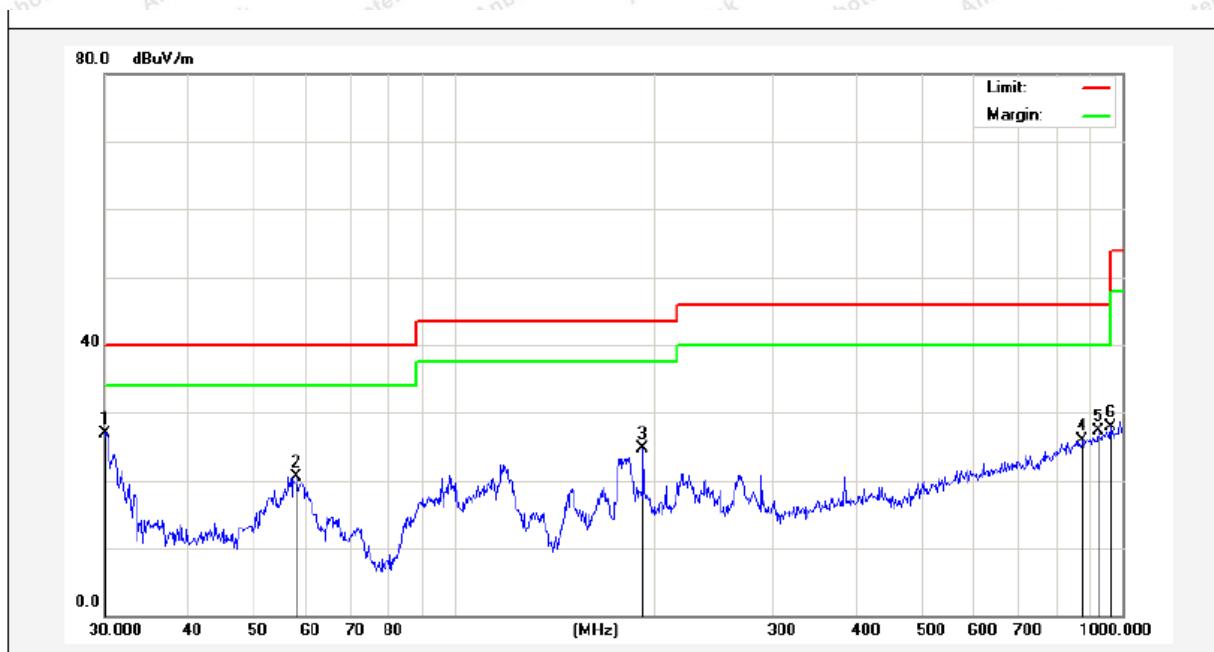
Temp.(°C)/Hum.(%RH): 23.7°C/51%RH

Standard: FCC PART 15C

Power Source: AC 240V, 60Hz for adapter

Test Mode: CH00

Polarization: Horizontal



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	30.1051	45.95	-18.95	27.00	40.00	-13.00	QP	300	0	
2	58.2030	38.75	-18.28	20.47	40.00	-19.53	QP	300	76	
3	191.7450	46.26	-21.62	24.64	43.50	-18.86	QP	300	193	
4	872.1832	32.38	-6.41	25.97	46.00	-20.03	QP	300	263	
5	919.2866	33.00	-5.67	27.33	46.00	-18.67	QP	300	310	
6	958.7943	33.02	-5.13	27.89	46.00	-18.11	QP	300	360	

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**Test Results (30~1000MHz)**

Job No.: SZAWE190522003-02

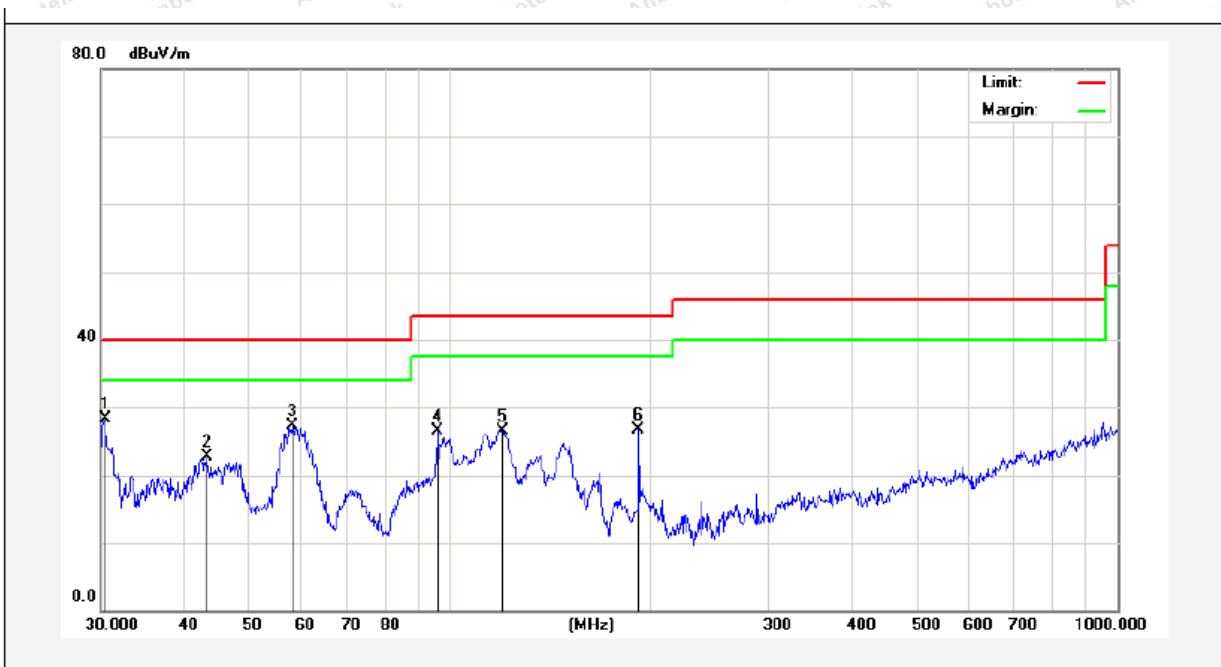
Temp.(°C)/Hum.(%RH): 23.7°C/51%RH

Standard: FCC PART 15C

Power Source: AC 240V, 60Hz for adapter

Test Mode: CH00

Polarization: Vertical



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	30.4237	46.17	-17.94	28.23	40.00	-11.77	QP	300	0	
2	43.2017	39.32	-16.55	22.77	40.00	-17.23	QP	300	54	
3	58.2030	44.59	-17.28	27.31	40.00	-12.69	QP	300	173	
4	95.7622	43.62	-17.21	26.41	43.50	-17.09	QP	300	233	
5	119.8555	43.94	-17.39	26.55	43.50	-16.95	QP	300	314	
6	191.7450	43.41	-16.80	26.61	43.50	-16.89	QP	300	360	

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**Test Results (30~1000MHz)**

Job No.: SZAWE190522003-02

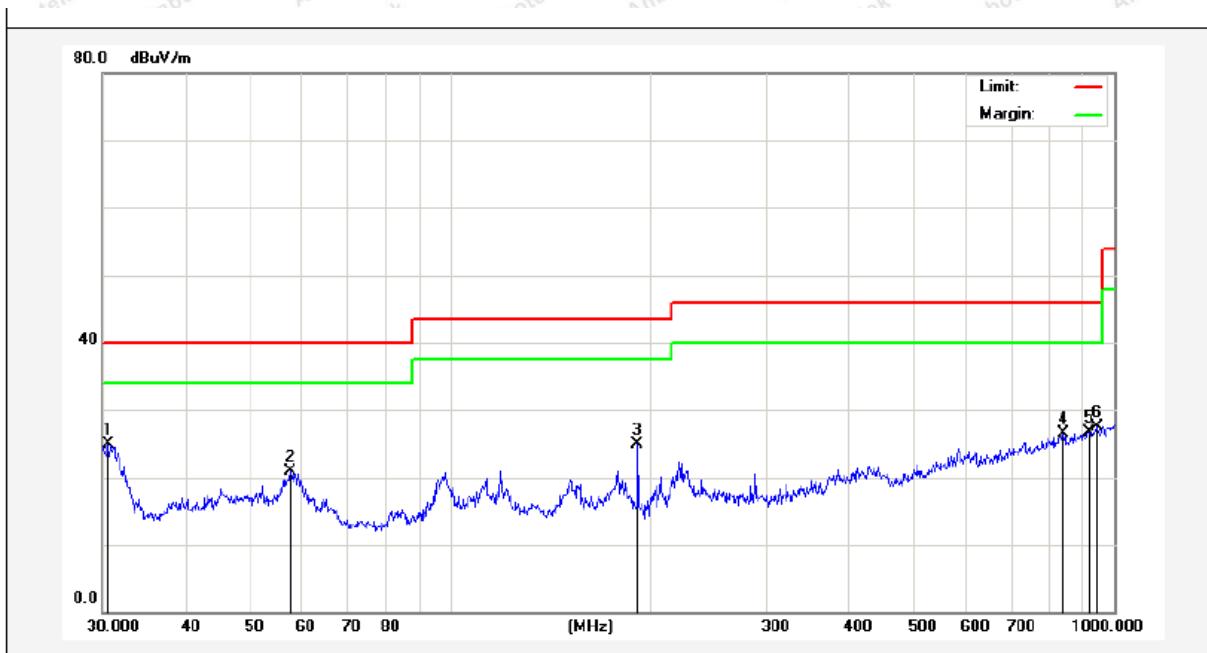
Temp.(°C)/Hum.(%RH): 23.7°C/51%RH

Standard: FCC PART 15C

Power Source: AC 120V, 60Hz for adapter

Test Mode: CH00

Polarization: Horizontal



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	30.6376	43.82	-18.94	24.88	40.00	-15.12	QP	300	0	
2	57.5938	39.14	-18.23	20.91	40.00	-19.09	QP	300	74	
3	191.7450	46.43	-21.62	24.81	43.50	-18.69	QP	300	125	
4	839.1816	33.54	-6.97	26.57	46.00	-19.43	QP	300	243	
5	916.0687	32.37	-5.73	26.64	46.00	-19.36	QP	300	298	
6	942.1304	32.77	-5.36	27.41	46.00	-18.59	QP	300	360	

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**Test Results (30~1000MHz)**

Job No.: SZAWE190522003-02

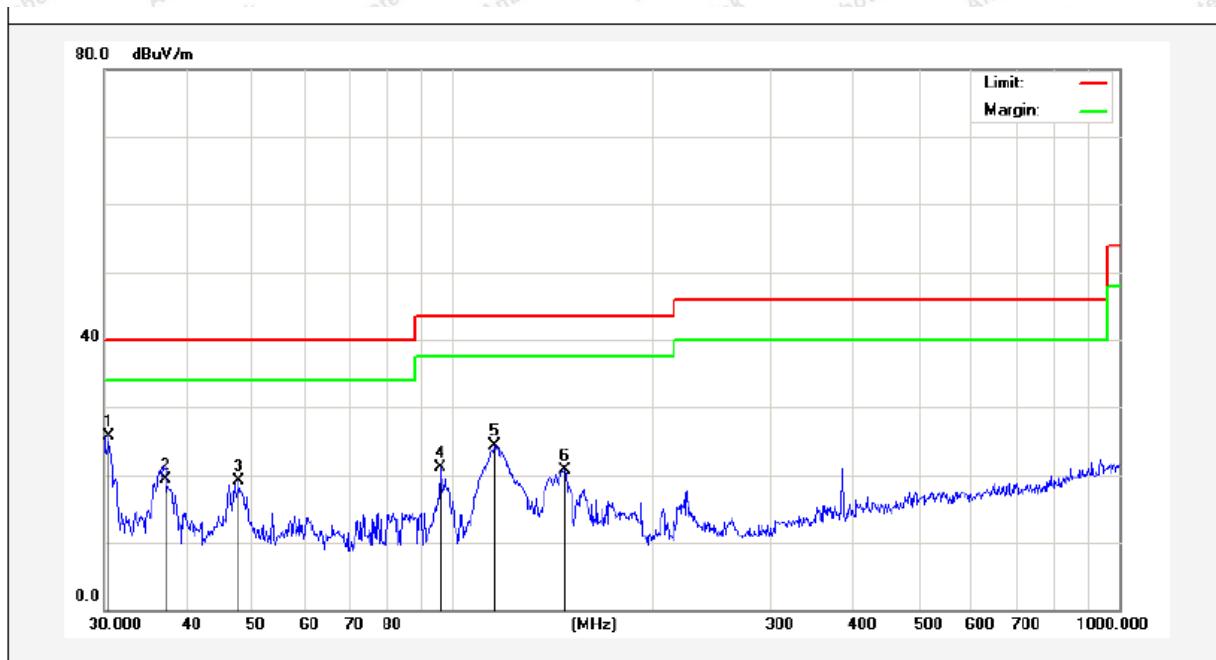
Temp.(°C)/Hum.(%RH): 23.7°C/51%RH

Standard: FCC PART 15C

Power Source: AC 120V, 60Hz for adapter

Test Mode: CH00

Polarization: Vertical



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	30.4237	43.55	-17.94	25.61	40.00	-14.39	QP	300	0	
2	37.1550	36.53	-17.32	19.21	40.00	-20.79	QP	300	77	
3	47.8260	35.83	-16.67	19.16	40.00	-20.84	QP	300	189	
4	95.7622	38.24	-17.21	21.03	43.50	-22.47	QP	300	214	
5	115.3204	41.45	-17.08	24.37	43.50	-19.13	QP	300	297	
6	147.4036	40.15	-19.38	20.77	43.50	-22.73	QP	300	360	

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**Test Results (1GHz-25GHz)**

Test Mode: CH00				Test channel: Lowest				
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4804.00	38.17	34.04	6.58	34.09	44.70	74.00	-29.30	V
7206.00	32.41	37.11	7.73	34.50	42.75	74.00	-31.25	V
9608.00	31.98	39.31	9.23	34.79	45.73	74.00	-28.27	V
12010.00	*					74.00		V
14412.00	*					74.00		V
4804.00	42.64	34.04	6.58	34.09	49.17	74.00	-24.83	H
7206.00	34.24	37.11	7.73	34.50	44.58	74.00	-29.42	H
9608.00	31.49	39.31	9.23	34.79	45.24	74.00	-28.76	H
12010.00	*					74.00		H
14412.00	*					74.00		H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4804.00	26.82	34.04	6.58	34.09	33.35	54.00	-20.65	V
7206.00	20.99	37.11	7.73	34.50	31.33	54.00	-22.67	V
9608.00	20.02	39.31	9.23	34.79	33.77	54.00	-20.23	V
12010.00	*					54.00		V
14412.00	*					54.00		V
4804.00	31.15	34.04	6.58	34.09	37.68	54.00	-16.32	H
7206.00	23.23	37.11	7.73	34.50	33.57	54.00	-20.43	H
9608.00	19.82	39.31	9.23	34.79	33.57	54.00	-20.43	H
12010.00	*					54.00		H
14412.00	*					54.00		H

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**Test Results (1GHz-25GHz)**

Test Mode: CH19				Test channel: Middle				
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4880.00	36.95	34.38	6.69	34.09	43.93	74.00	-30.07	V
7320.00	31.59	37.22	7.78	34.53	42.06	74.00	-31.94	V
9760.00	31.26	39.46	9.35	34.80	45.27	74.00	-28.73	V
12200.00	*					74.00		V
14640.00	*					74.00		V
4880.00	41.16	34.38	6.69	34.09	48.14	74.00	-25.86	H
7320.00	33.32	37.22	7.78	34.53	43.79	74.00	-30.21	H
9760.00	30.64	39.46	9.35	34.80	44.65	74.00	-29.35	H
12200.00	*					74.00		H
14640.00	*					74.00		H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4880.00	25.84	34.38	6.69	34.09	32.82	54.00	-21.18	V
7320.00	20.33	37.22	7.78	34.53	30.80	54.00	-23.20	V
9760.00	19.43	39.46	9.35	34.80	33.44	54.00	-20.56	V
12200.00	*					54.00		V
14640.00	*					54.00		V
4880.00	30.03	34.38	6.69	34.09	37.01	54.00	-16.99	H
7320.00	22.48	37.22	7.78	34.53	32.95	54.00	-21.05	H
9760.00	19.13	39.46	9.35	34.80	33.14	54.00	-20.86	H
12200.00	*					54.00		H
14640.00	*					54.00		H

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**Test Results (1GHz-25GHz)**

Test Mode: CH39				Test channel: Highest				
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4960.00	36.46	34.72	6.79	34.09	43.88	74.00	-30.12	V
7440.00	31.27	37.34	7.82	34.57	41.86	74.00	-32.14	V
9920.00	30.97	39.62	9.46	34.81	45.24	74.00	-28.76	V
12400.00	*					74.00		V
14880.00	*					74.00		V
4960.00	40.57	34.72	6.79	34.09	47.99	74.00	-26.01	H
7440.00	32.95	37.34	7.82	34.57	43.54	74.00	-30.46	H
9920.00	30.31	39.62	9.46	34.81	44.58	74.00	-29.42	H
12400.00	*					74.00		H
14880.00	*					74.00		H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4960.00	25.49	34.72	6.79	34.09	32.91	54.00	-21.09	V
7440.00	20.09	37.34	7.82	34.57	30.68	54.00	-23.32	V
9920.00	19.22	39.62	9.46	34.81	33.49	54.00	-20.51	V
12400.00	*					54.00		V
14880.00	*					54.00		V
4960.00	29.64	34.72	6.79	34.09	37.06	54.00	-16.94	H
7440.00	22.21	37.34	7.82	34.57	32.80	54.00	-21.20	H
9920.00	18.88	39.62	9.46	34.81	33.15	54.00	-20.85	H
12400.00	*					54.00		H
14880.00	*					54.00		H

**Remark:**

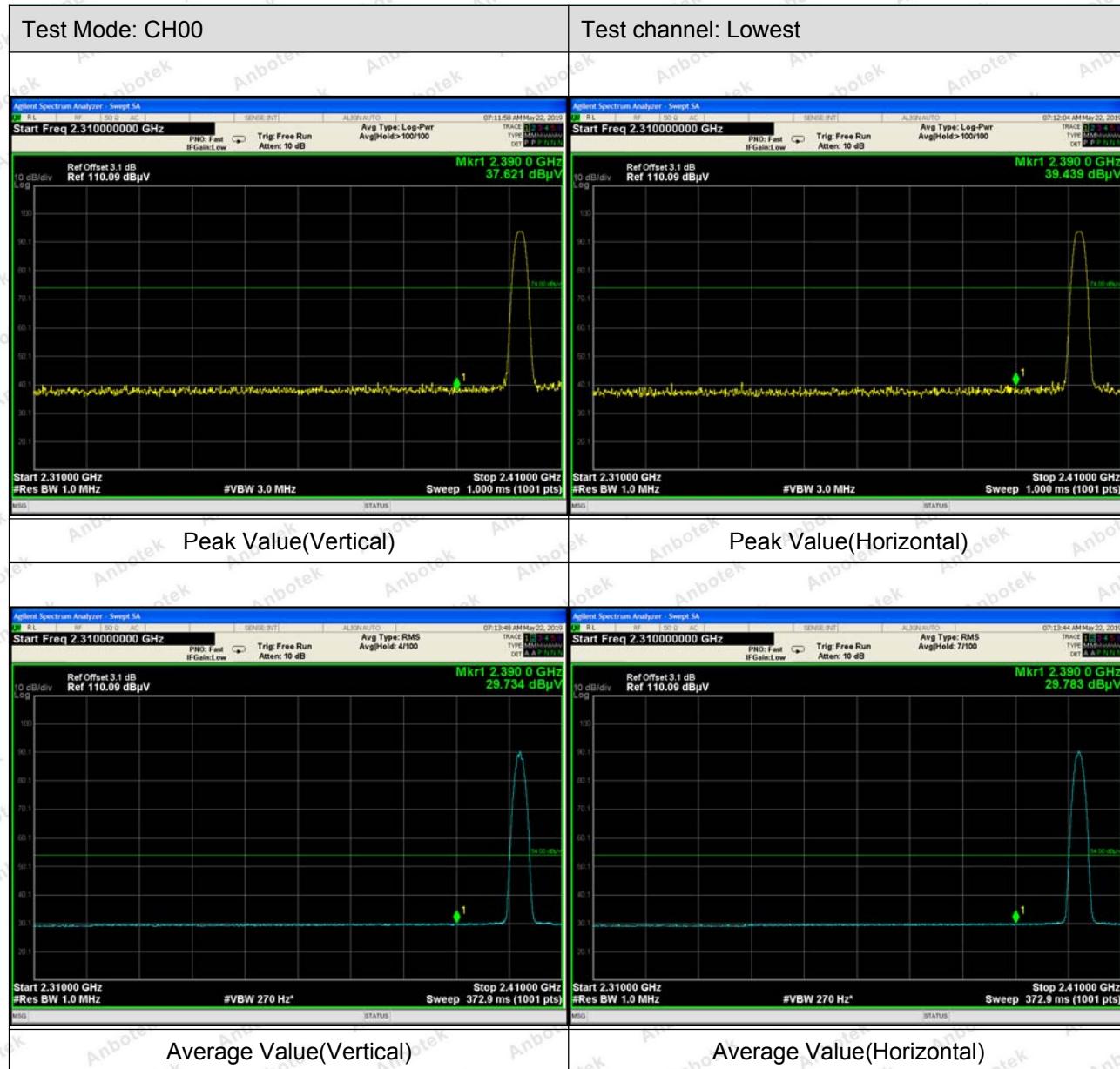
1. Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “\*” means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

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**Radiated Band Edge:**



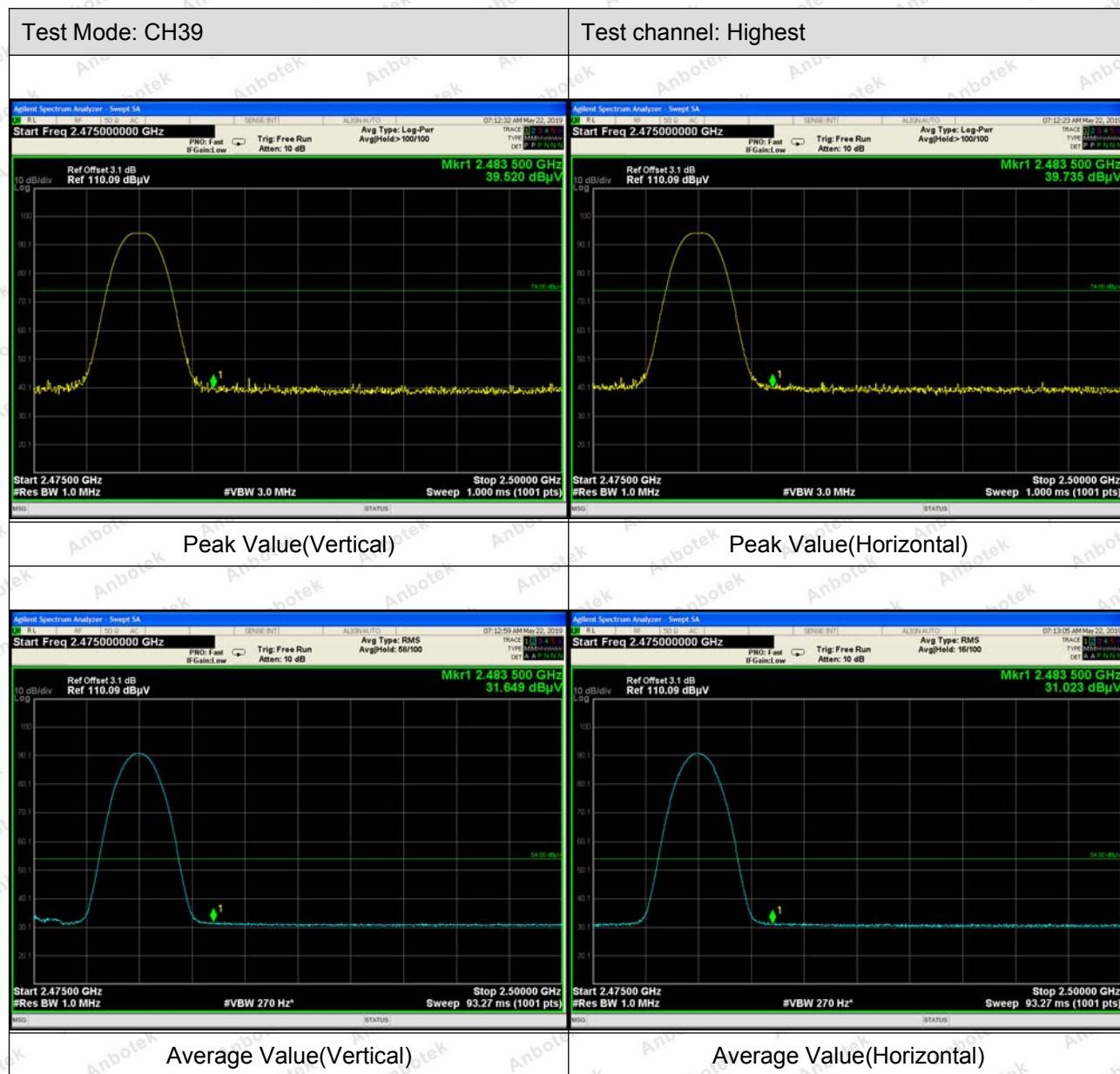
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**Remark:**

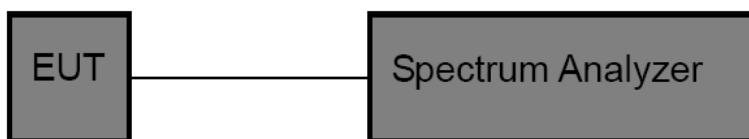
1. Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

## 5. Maximum Peak Output Power Test

### 5.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (b)(3)
Test Limit	30dBm

### 5.2. Test Setup



### 5.3. Test Procedure

This procedure shall be used when the measurement instrument has available a resolution bandwidth that is greater than the DTS bandwidth.

1. Set the RBW  $\geq$ DTS bandwidth.
2. Set the VBW $\geq$ 3\*RBW.
3. Set the span $\geq$  3\*RBW.
4. Detector = peak.
5. Sweep time = auto couple.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.
8. Use peak marker function to determine the peak amplitude level.

### 5.4. Test Data

Test Item	:	Max. peak output power	Test Mode	:	CH Low ~ CH High
Test Voltage	:	DC 3.7V Battery inside	Temperature	:	24°C
Test Result	:	PASS	Humidity	:	55%RH

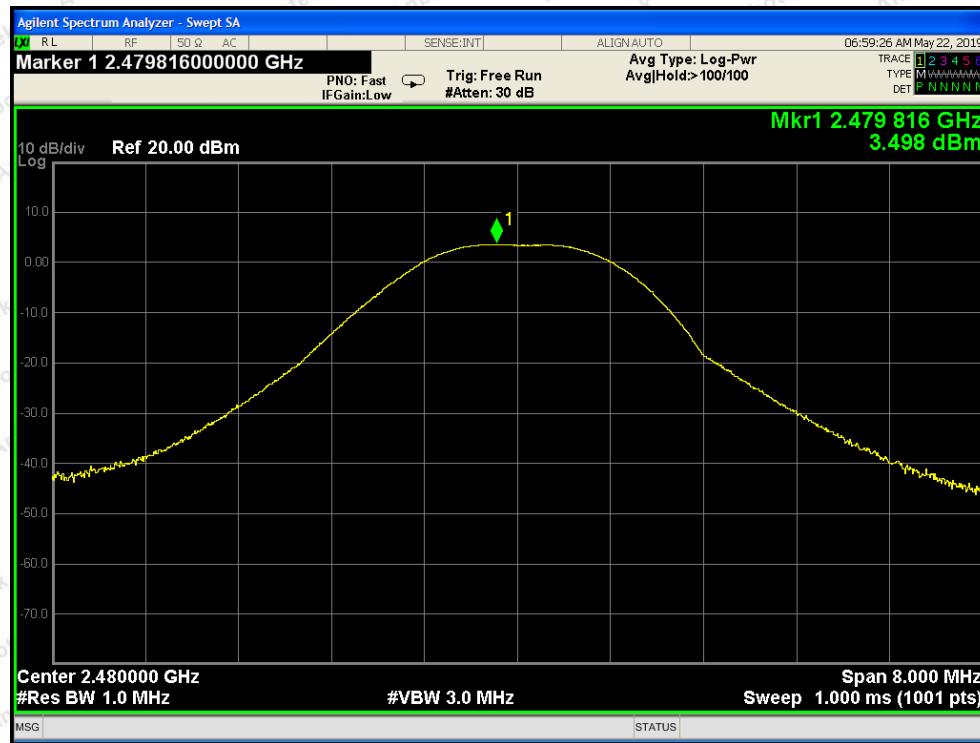
Channel Frequency (MHz)	Peak Power output (dBm)	Limit (dBm)	Results
2402	3.472	30	PASS
2440	3.369	30	PASS
2480	3.498	30	PASS



CH: Low



CH: Middle



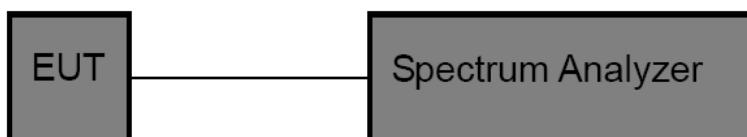
CH: High

## 6. 6DB Occupy Bandwidth Test

### 6.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (a)(2)
Test Limit	>500kHz

### 6.2. Test Setup



### 6.3. Test Procedure

1. Place the EUT on the table and set it in the transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as:  
RBW = 100kHz, VBW $\geq$ 3\*RBW =300kHz,  
Detector= Peak  
Trace mode= Max hold.  
Sweep- auto couple.
4. Mark the peak frequency and -6dB (upper and lower) frequency.
5. Repeat until all the rest channels are investigated.

### 6.4. Test Data

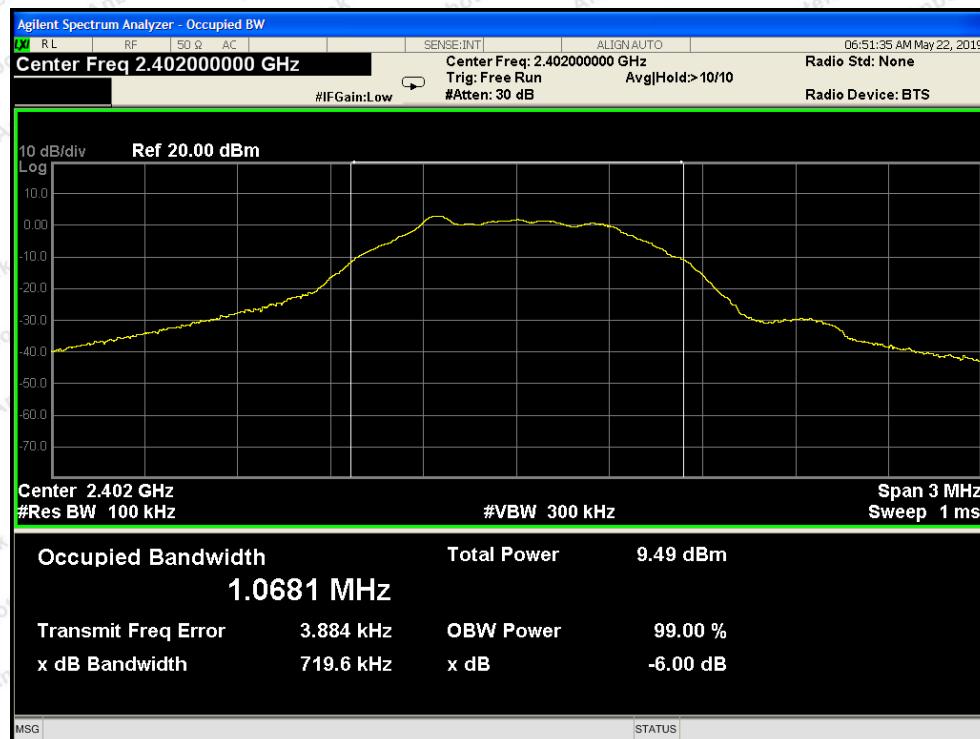
Test Item	:	6dB Bandwidth	Test Mode	:	CH Low ~ CH High
Test Voltage	:	DC 3.7V Battery inside	Temperature	:	24°C
Test Result	:	PASS	Humidity	:	55%RH

Channel	Frequency(MHz)	Bandwidth (kHz)	Limit (kHz)	Results
Low	2402	719.6	>500	PASS
Middle	2440	717.7		PASS
High	2480	710.7		PASS

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CH: Low



CH: Middle

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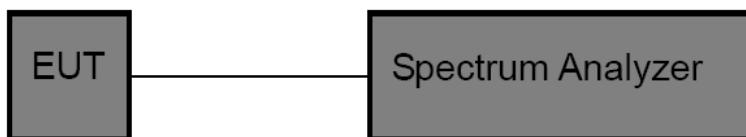
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## 7. Power Spectral Density Test

### 7.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (e)
Test Limit	8dBm

### 7.2. Test Setup



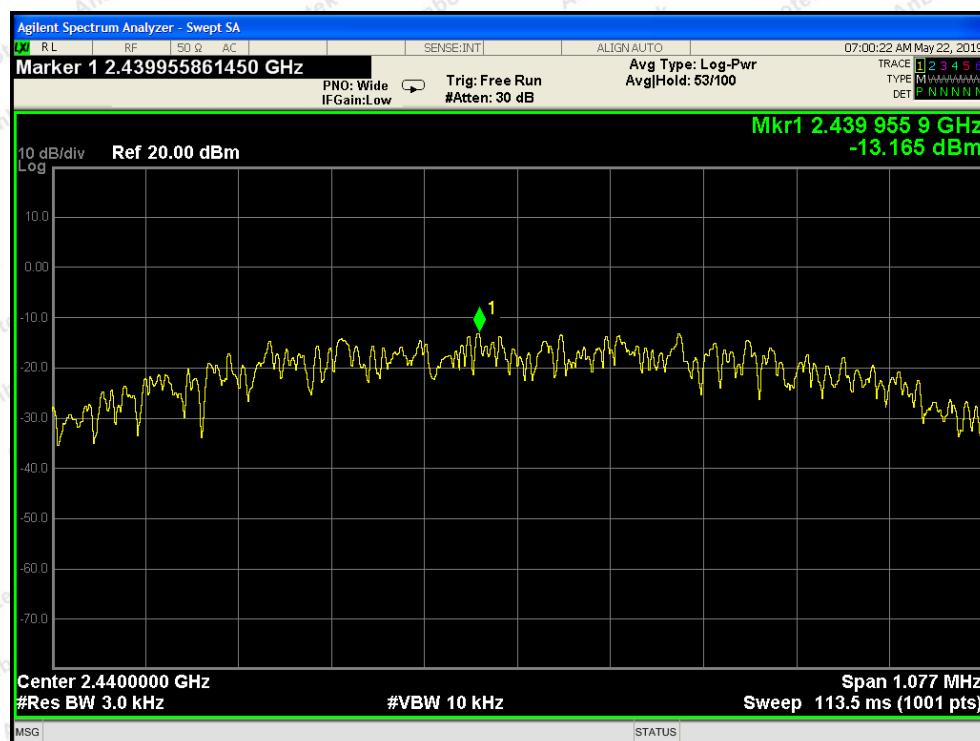
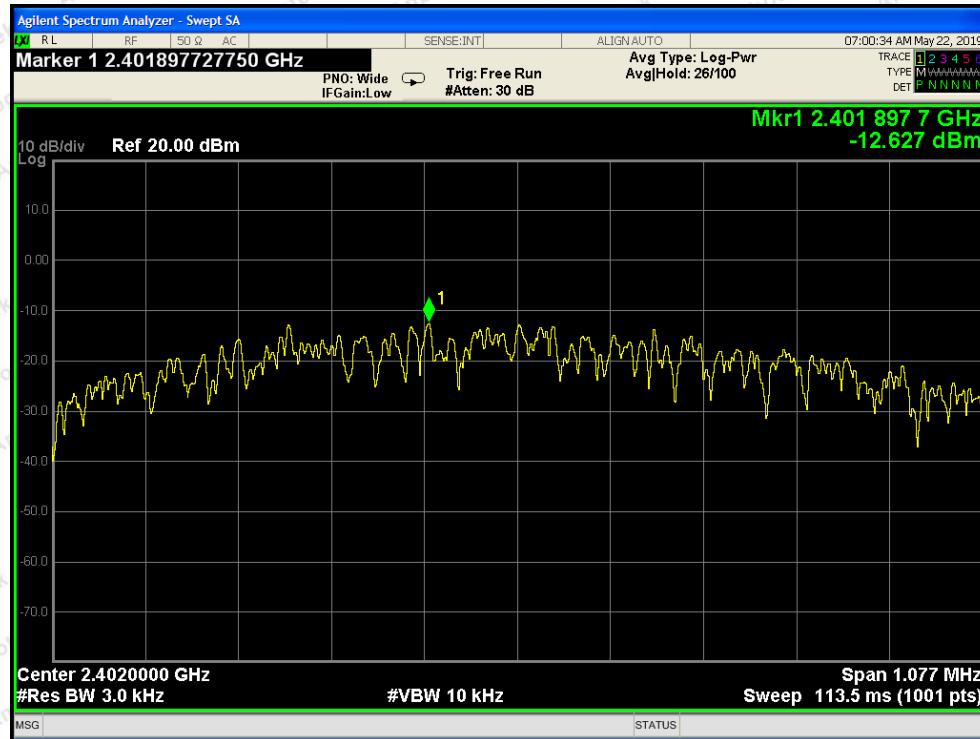
### 7.3. Test Procedure

1. Place the EUT on the table and set it in transmitting mode. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
2. Set the spectrum analyzer as RBW = 3kHz, VBW = 10kHz, Span = 1.5xDTS BW
3. Record the max. reading.
4. Repeat the above procedure until the measurements for all frequencies are completed.

### 7.4. Test Data

Test Item	:	Power Spectral Density	Test Mode	:	CH Low ~ CH High
Test Voltage	:	DC 3.7V Battery inside	Temperature	:	24°C
Test Result	:	PASS	Humidity	:	55%RH

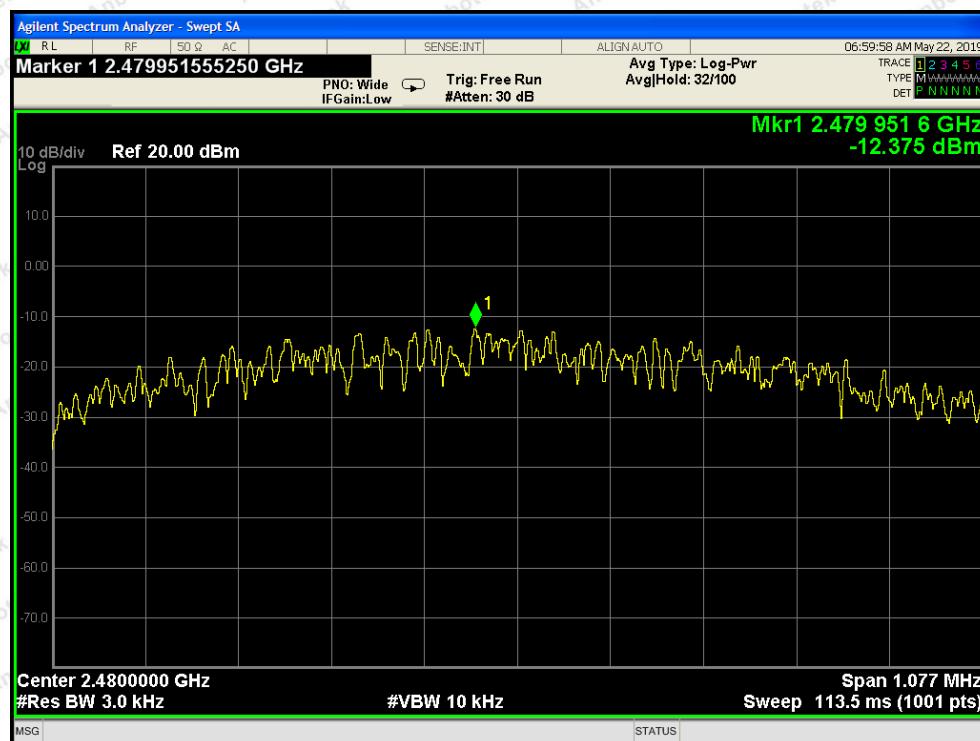
Channel	Frequency (MHz)	PSD (dBm/3KHz)	Limit (dBm/3KHz)	Results
Low	2402	-12.627	8.00	PASS
Middle	2440	-13.165	8.00	PASS
High	2480	-12.375	8.00	PASS



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CH: High

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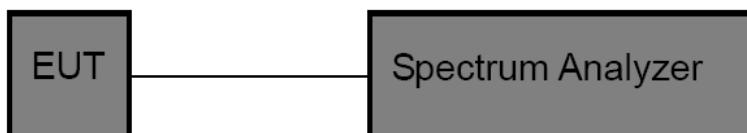
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## 8. 100kHz Bandwidth of Frequency Band Edge Requirement

### 8.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (d)
Test Limit	in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a).

### 8.2. Test Setup



### 8.3. Test Procedure

Using the following spectrum analyzer setting:

1. Set the RBW = 100KHz.
2. Set the VBW = 300KHz.
3. Sweep time = auto couple.
4. Detector function = peak.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.

### 8.4. Test Data

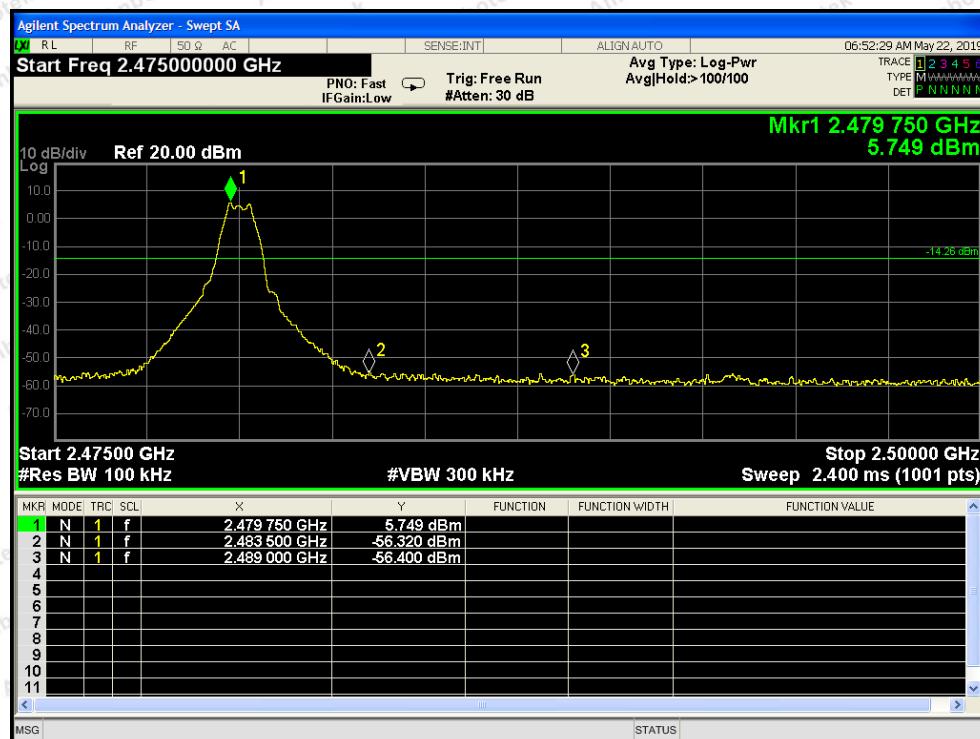
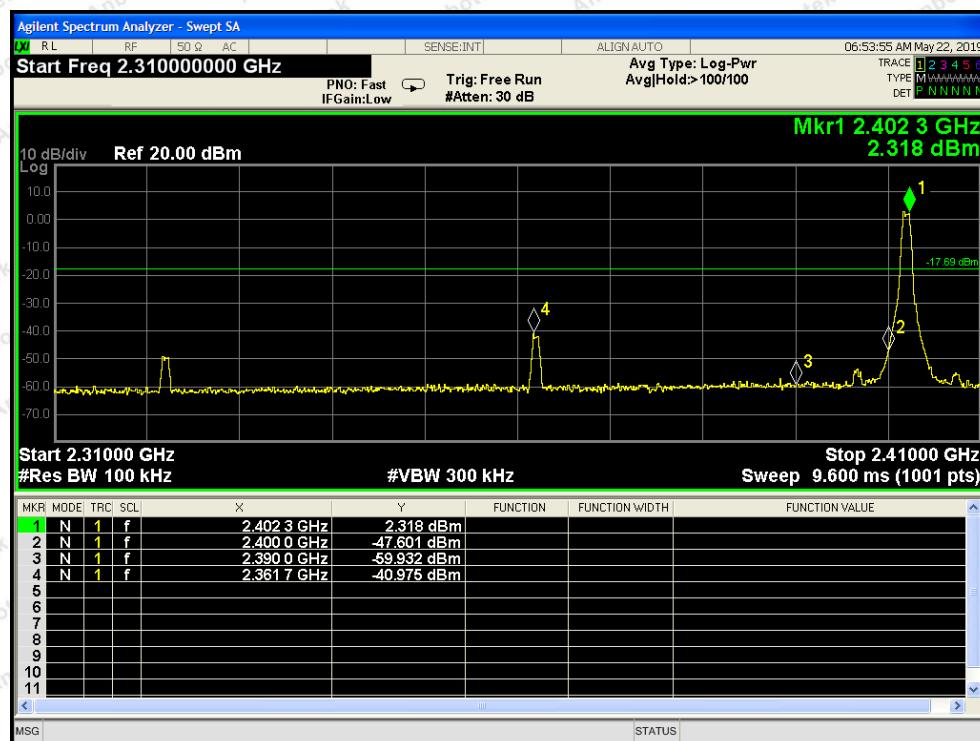
Test Item	:	Band edge	Test Mode	:	CH Low ~ CH High
Test Voltage	:	DC 3.7V Battery inside	Temperature	:	24°C
Test Result	:	PASS	Humidity	:	55%RH

Frequency Band (MHz)	Delta Peak to Band Emission (dBc)	Limit (dBc)	Results
2400	49.919	>20	PASS
2483.5	62.069	>20	PASS

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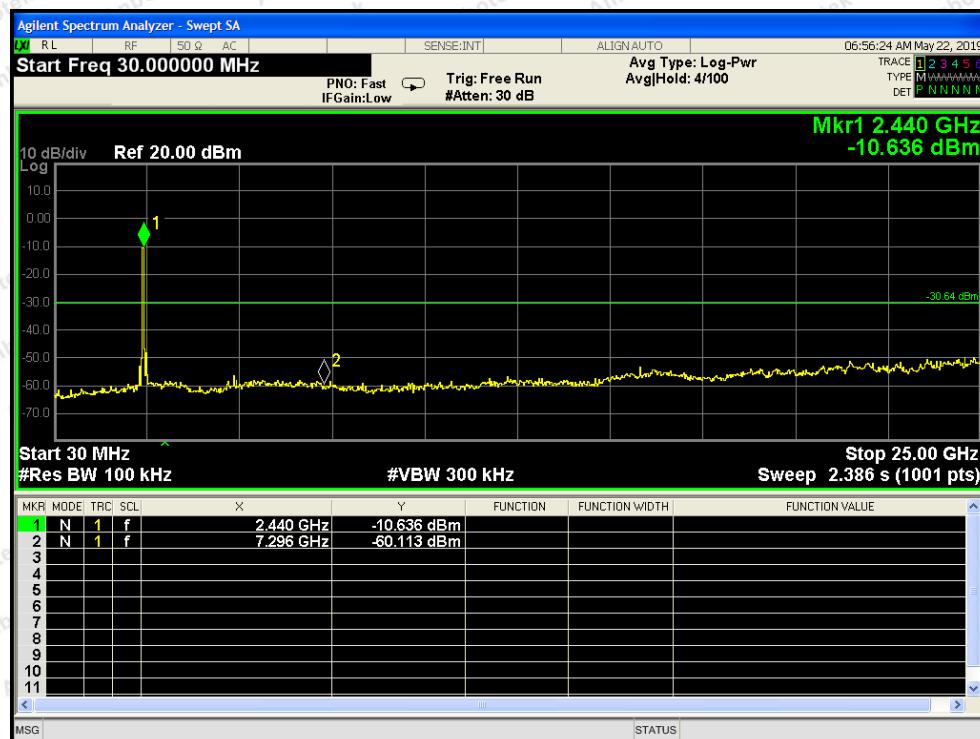
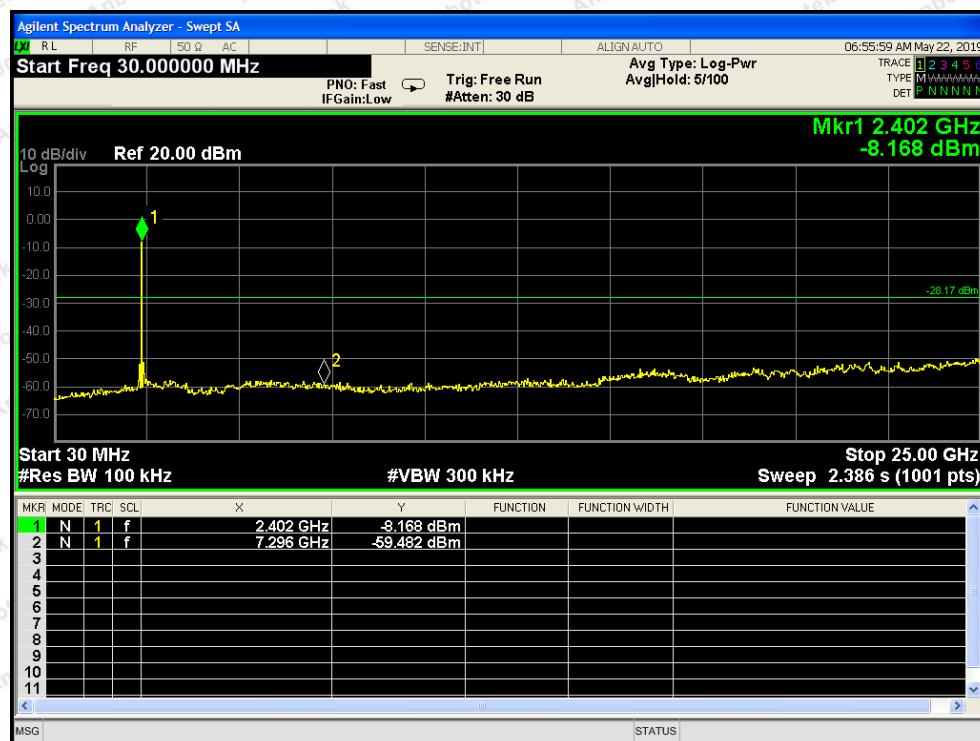
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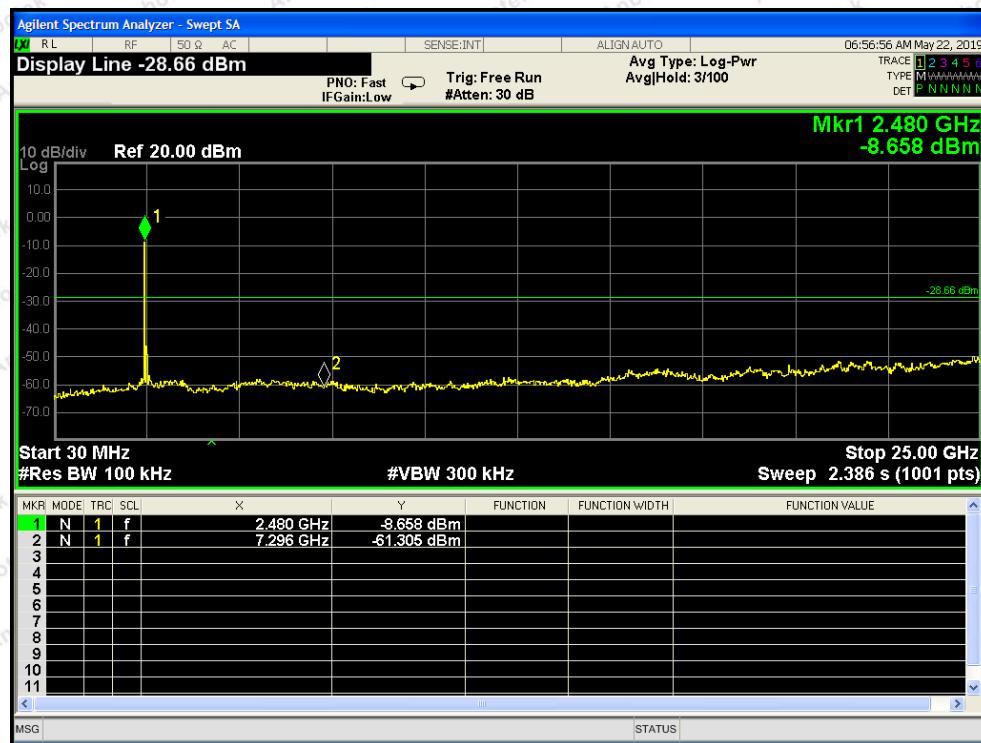


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CH: High

## 9. Antenna Requirement

### 9.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203 /247(c)
Requirement	<p>1) 15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p> <p>2) 15.247(c) (1)(i) requirement: Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.</p>

### 9.2. Antenna Connected Construction

The antenna is a Ceramic Antenna which permanently attached, and the best case gain of the antenna is 0 dBi. It complies with the standard requirement.

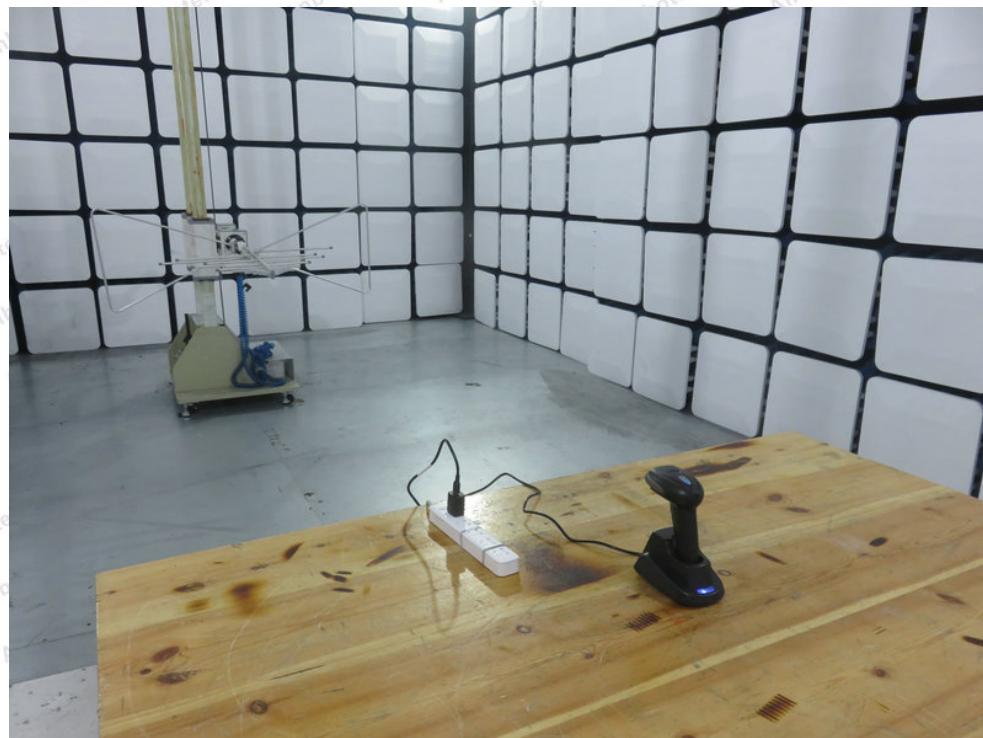


## APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of Conducted Emission Measurement



Photo of Radiation Emission Test





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## APPENDIX II -- EXTERNAL PHOTOGRAPH



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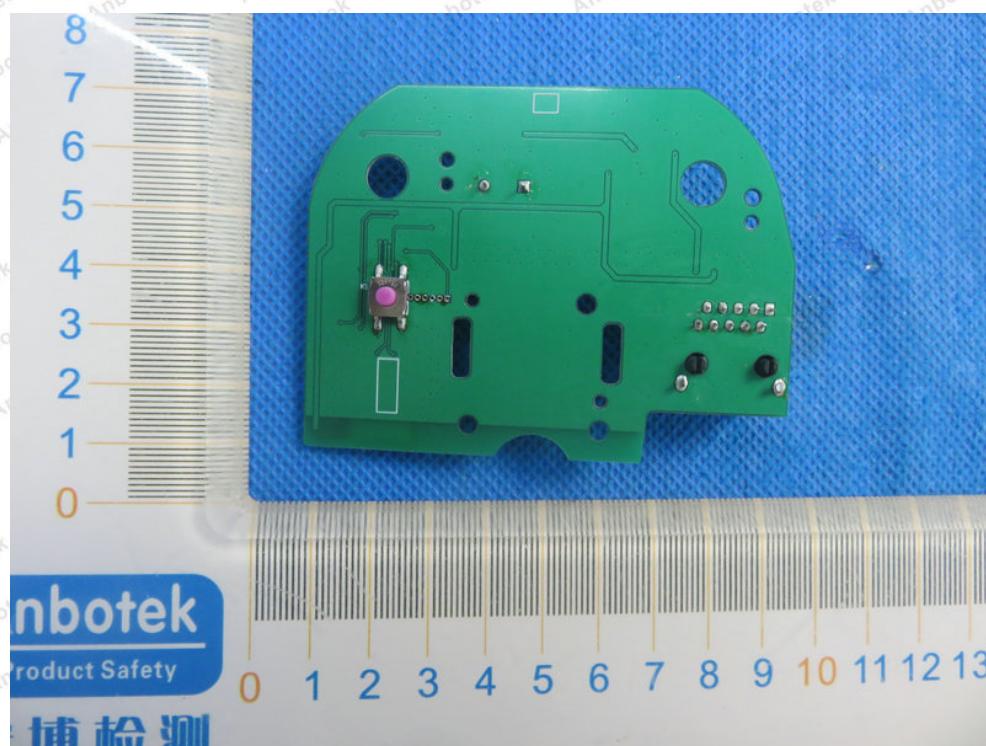
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## APPENDIX III -- INTERNAL PHOTOGRAPH







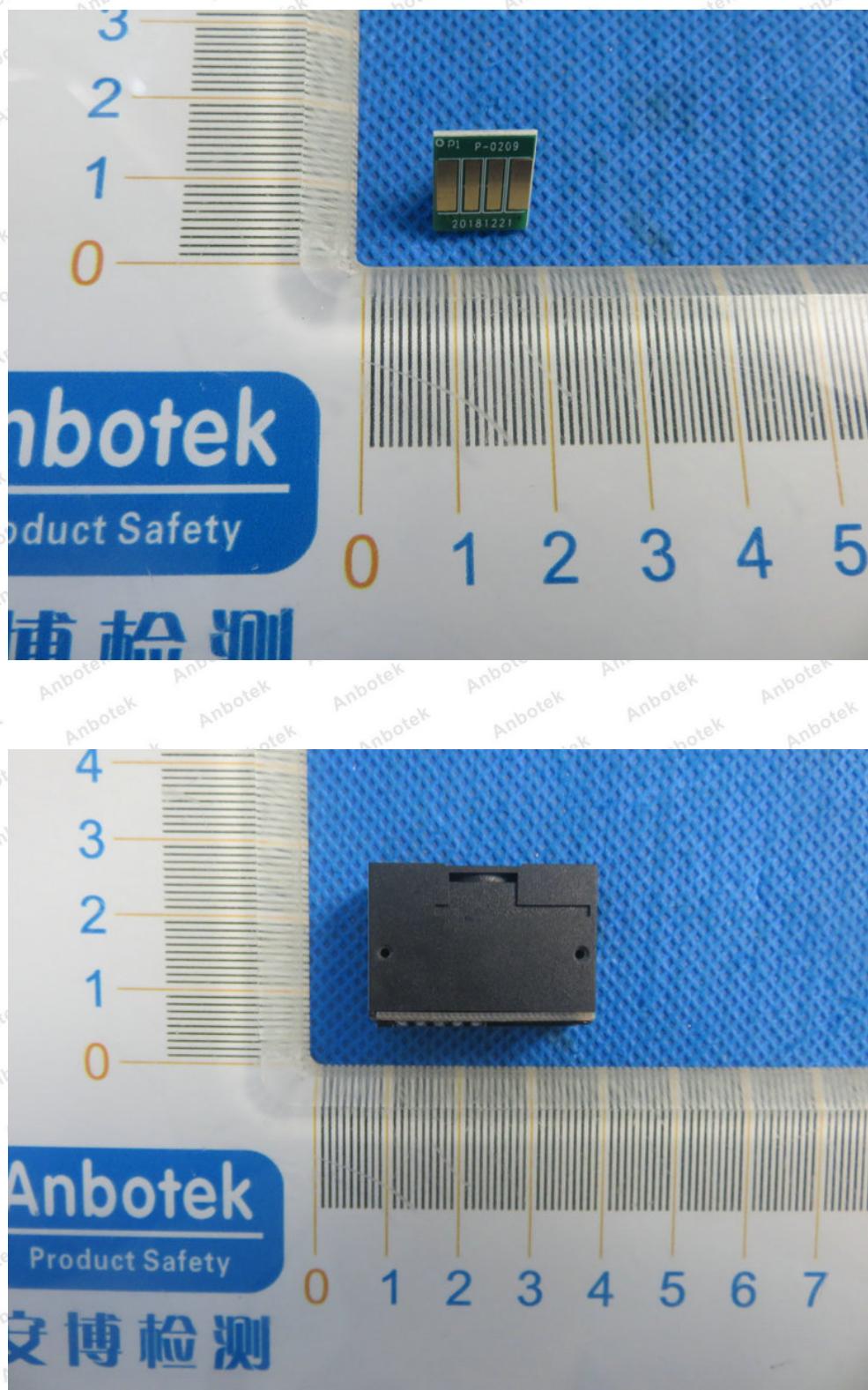
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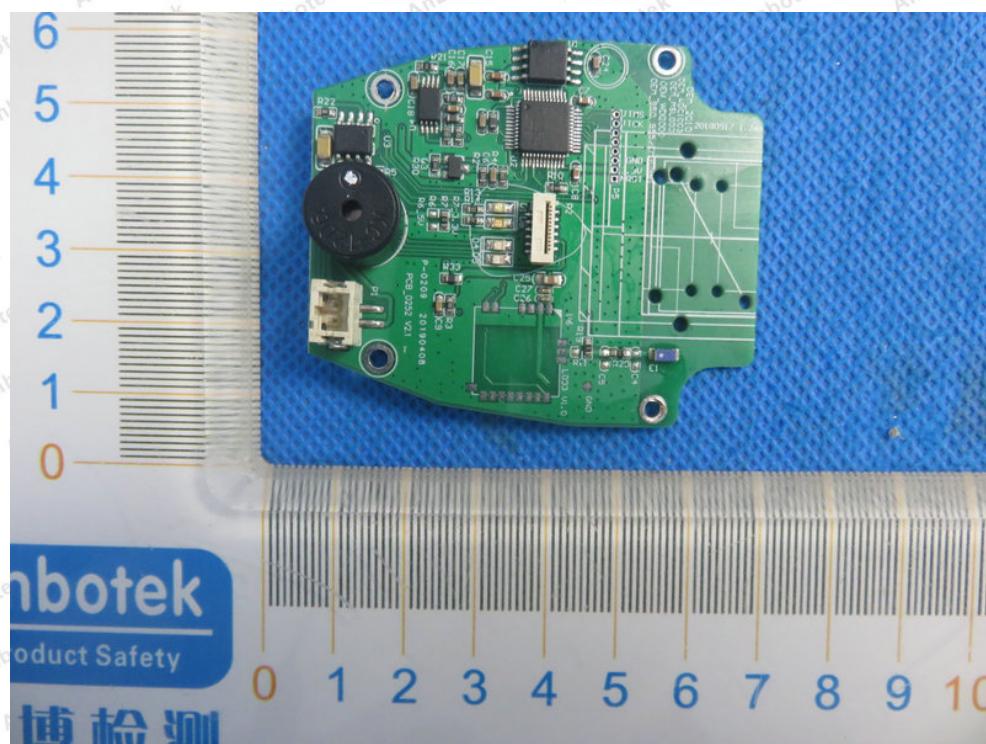
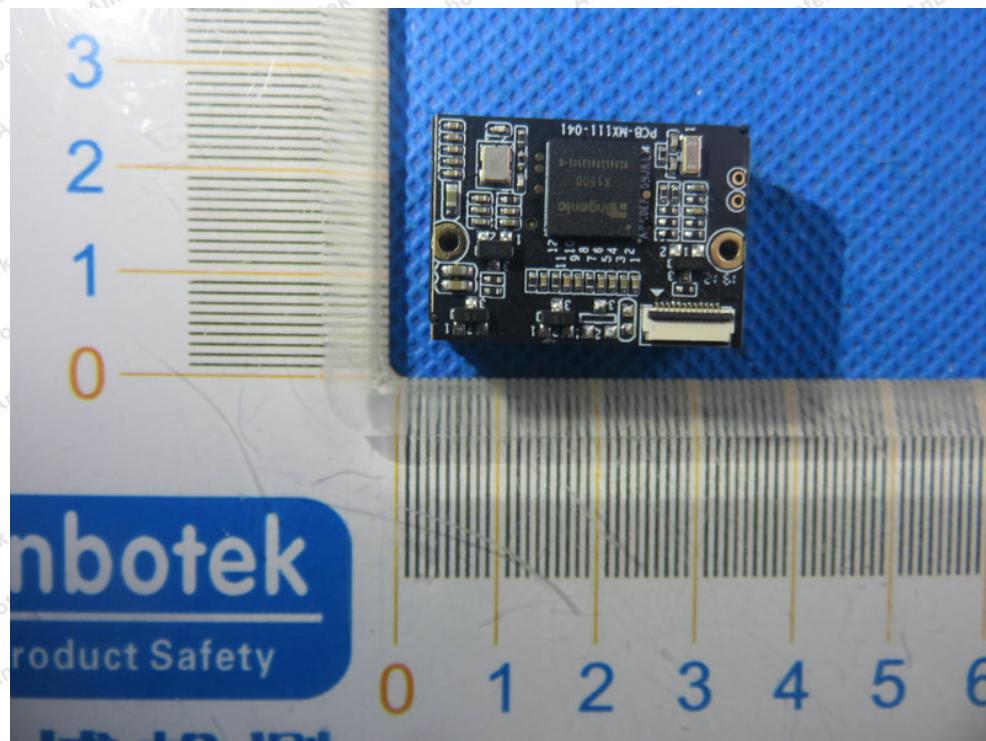




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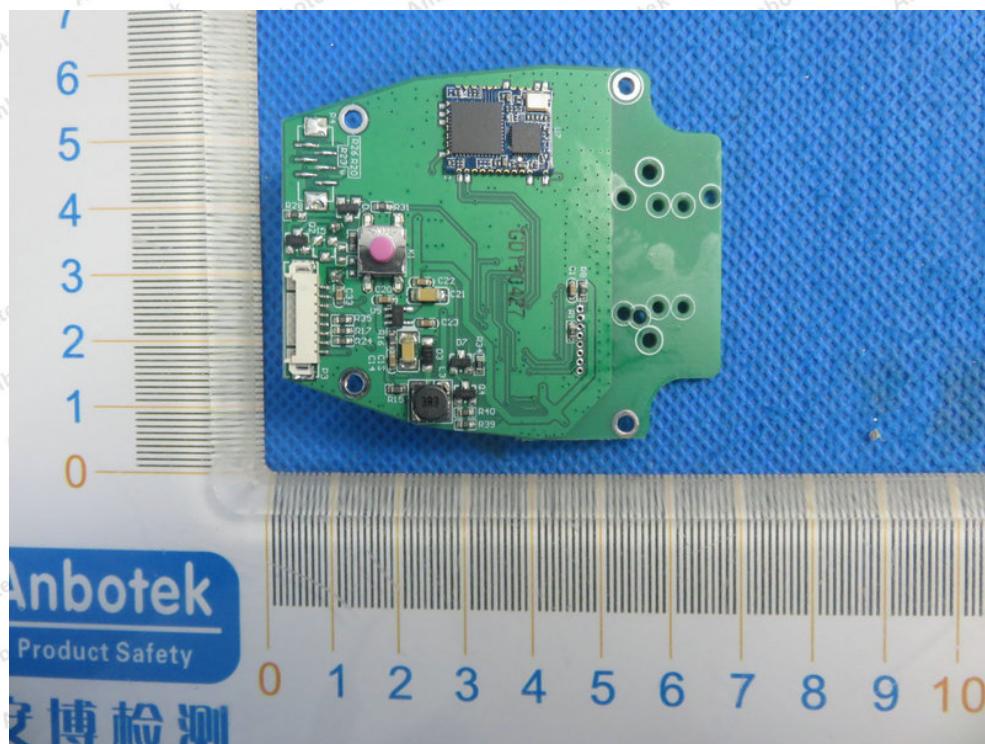
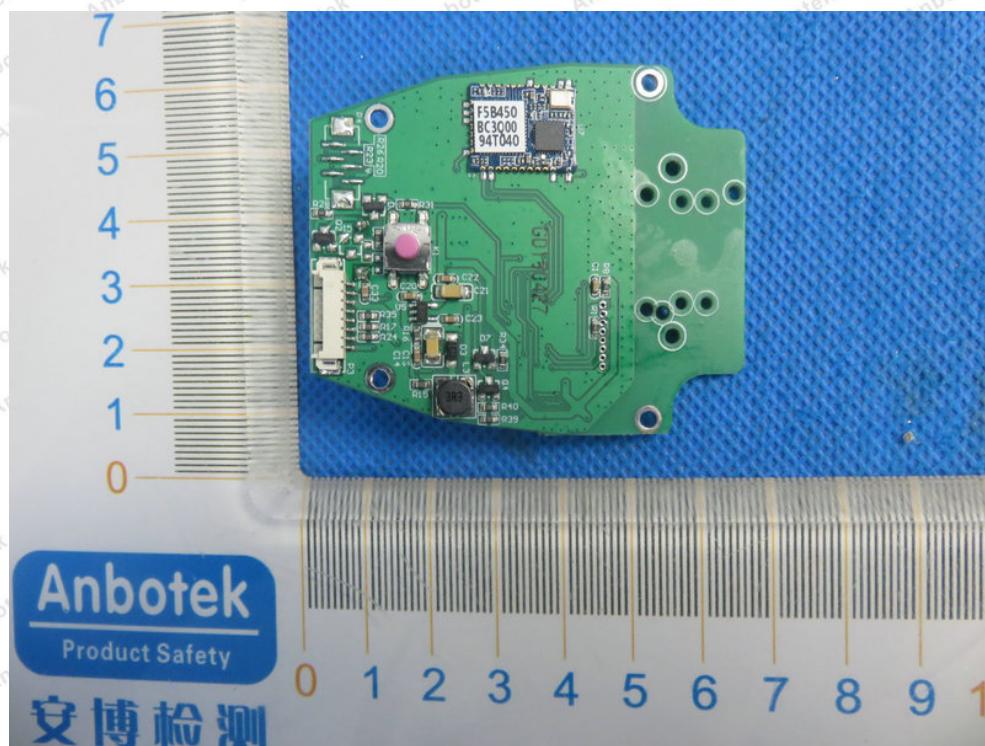


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-----End of Report-----

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