



FCC Report (WIFI)

Applicant: Guangzhou Bellabee Biotechnology Co.LTD

Address of Applicant: 1006A, unit 01, 10th floor, no. 219 zhongshan 5th road, yuexiu district, Guangzhou, China

Manufacturer/Factory: Guangzhou Bellabee Biotechnology Co.LTD

Address of Manufacturer/Factory: 1006A, unit 01, 10th floor, no. 219 zhongshan 5th road, yuexiu district, Guangzhou, China

Equipment Under Test (EUT)

Product Name: Lebella Bees AI Education Robot

Model No.: A1

Trade mark: N/A

FCC ID: 2AROQ-A1

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: October 18, 2018

Date of Test: October 18- October 26, 2018

Date of report issued: October 26, 2018

Test Result : PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

**Robinson Lo
Laboratory Manager**

This 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.

2 Version

Version No.	Date	Description
00	October 26, 2018	Original

Prepared By:

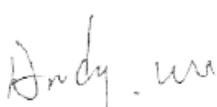


Date:

October 26, 2018

Project Engineer

Check By:



Date:

October 26, 2018

Reviewer

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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(3)	Pass
Channel Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Band Edge	15.247(d)	Pass
Spurious Emission	15.205/15.209	Pass

Pass: The EUT complies with the essential requirements in the standard.

Remark: Test according to ANSI C63.4:2014 and ANSI C63.10:2013.

Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz ~ 30MHz	± 4.34dB	(1)
Radiated Emission	30MHz ~ 1000MHz	± 4.24dB	(1)
Radiated Emission	1GHz ~ 26.5GHz	± 4.68dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	± 3.45dB	(1)

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

5 General Information

5.1 General Description of EUT

Product Name:	Lebella Bees AI Education Robot
Model No.:	A1
Sample(s) Status:	Engineer sample
Quantity of tested samples	1
Operation Frequency:	802.11g/802.11n(HT20): 2412MHz~2462MHz
Channel numbers:	802.11g /802.11n(HT20): 11
Channel separation:	5MHz
Modulation technology:	802.11g/802.11n(HT20): Orthogonal Frequency Division Multiplexing (OFDM)
Antenna Type:	PCB antenna
Antenna gain:	0dBi
Power supply:	DC 3.7V 2000mAh

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz	2457MHz	

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Test channel	Frequency (MHz)
	802.11g/802.11n(HT20)
Lowest channel	2412MHz
Middle channel	2437MHz
Highest channel	2462MHz

5.2 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode
<i>Remark: During the test, the dutycycle >98%, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.</i>	

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:						
Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.						
<table border="1"> <tbody> <tr> <td>Mode</td> <td>802.11g</td> <td>802.11n(HT20)</td> </tr> <tr> <td>Data rate</td> <td>6Mbps</td> <td>6.5Mbps</td> </tr> </tbody> </table>	Mode	802.11g	802.11n(HT20)	Data rate	6Mbps	6.5Mbps
Mode	802.11g	802.11n(HT20)				
Data rate	6Mbps	6.5Mbps				

5.3 Description of Support Units

None.

5.4 Test Facility

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

- **FCC —Registration No.: 381383**

Global United Technology Services Co., Ltd., Shenzhen 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 files. Registration 381383, January 08, 2018.

- **Industry Canada (IC) —Registration No.: 9079A-2**

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, August 15, 2016.

5.5 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480

Fax: 0755-27798960

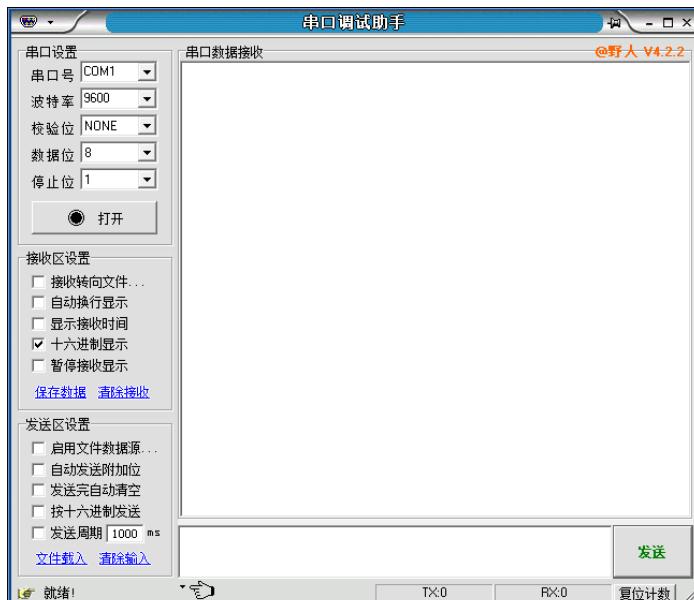
5.6 Additional instructions

Software (Used for test) from client

Mode	Special software is used. The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.
Test Software Name	UartAssist
Test Software Version	V4.2.2

Mode	Channel	Frequency(MHz)
802.11g/n(HT20)	CH01	2412
	CH06	2437
	CH11	2462

Test software set



6 Test Instruments list

Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	July 03 2015	July 02 2020
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June 28 2018	June 27 2019
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June 28 2018	June 27 2019
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June 28 2018	June 27 2019
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 28 2018	June 27 2019
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	June 28 2018	June 27 2019
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
9	Coaxial Cable	GTS	N/A	GTS213	June 28 2018	June 27 2019
10	Coaxial Cable	GTS	N/A	GTS211	June 28 2018	June 27 2019
11	Coaxial cable	GTS	N/A	GTS210	June 28 2018	June 27 2019
12	Coaxial Cable	GTS	N/A	GTS212	June 28 2018	June 27 2019
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June 28 2018	June 27 2019
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	June 28 2018	June 27 2019
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 28 2018	June 27 2019
16	Band filter	Amindeon	82346	GTS219	June 28 2018	June 27 2019
17	Power Meter	Anritsu	ML2495A	GTS540	June 28 2018	June 27 2019
18	Power Sensor	Anritsu	MA2411B	GTS541	June 28 2018	June 27 2019

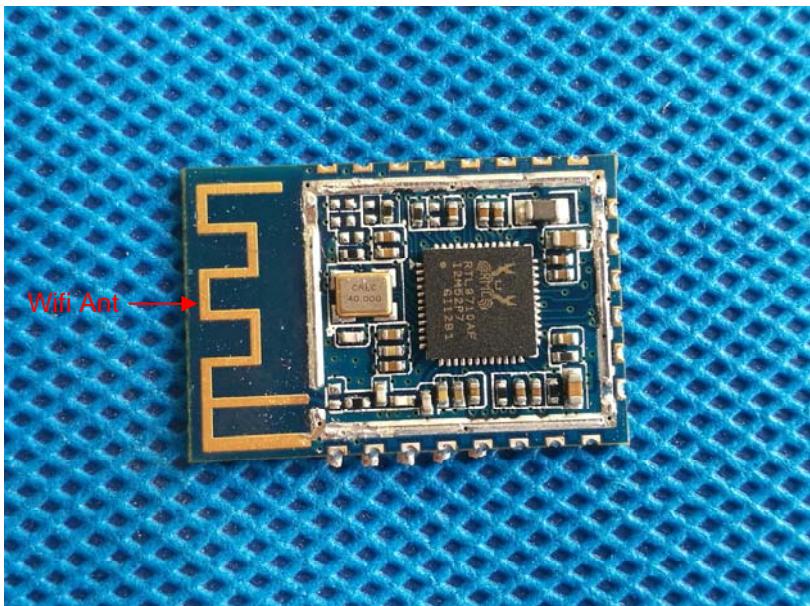
Conducted Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	May16 2014	May15 2019
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June 28 2018	June 27 2019
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June 28 2018	June 27 2019
4	Artificial Mains Network	SCHWARZBECK MESS	NSLK8127	GTS226	June 28 2018	June 27 2019
5	Coaxial Cable	GTS	N/A	GTS227	N/A	N/A
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
7	Thermo meter	KTJ	TA328	GTS233	June 28 2017	June 27 2019

General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Barometer	ChangChun	DYM3	GTS257	June 28 2018	June 27 2019

7 Test results and Measurement Data

7.1 Antenna requirement

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
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.	
15.247(c) (1)(i) requirement: (i) 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 6dBi.	
E.U.T Antenna: <i>The antenna is PCB antenna, the best case gain of the antenna is 0dBi.</i>	

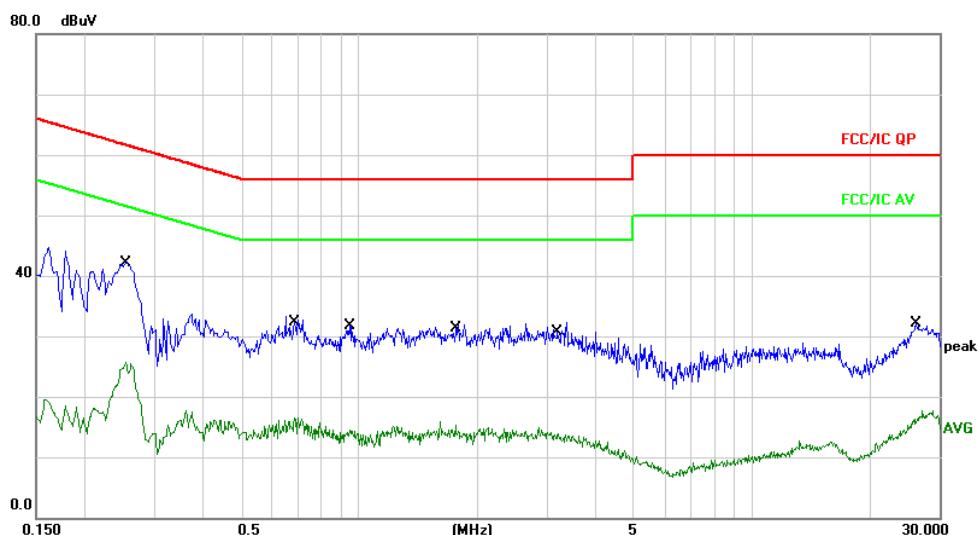


7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207																
Test Method:	ANSI C63.10:2013																
Test Frequency Range:	150KHz to 30MHz																
Class / Severity:	Class B																
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto																
Limit:	<table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBuV)</th> </tr> <tr> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15-0.5</td> <td>66 to 56*</td> <td>56 to 46*</td> </tr> <tr> <td>0.5-5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5-30</td> <td>60</td> <td>50</td> </tr> </tbody> </table>			Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)																
	Quasi-peak	Average															
0.15-0.5	66 to 56*	56 to 46*															
0.5-5	56	46															
5-30	60	50															
	<small>* Decreases with the logarithm of the frequency.</small>																
Test setup:	<p><i>Remark:</i> E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>																
Test procedure:	<ol style="list-style-type: none"> The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement. 																
Test Instruments:	Refer to section 6.0 for details																
Test mode:	Refer to section 5.2 for details																
Test results:	Pass																

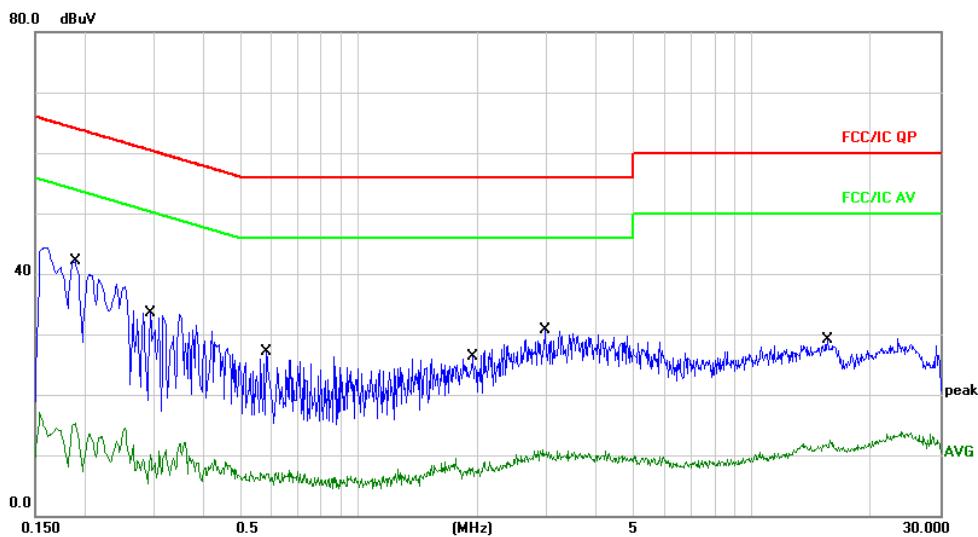
Measurement data

Line:



No. Mk.	Freq. MHz	Reading Level	Correct Factor	Measure- ment	Limit	Over	Detector	Comment
		dBuV	dB	dBuV	dB			
1 *	0.2540	32.53	9.66	42.19	61.62	-19.43	QP	
2	0.2540	15.94	9.66	25.60	51.62	-26.02	AVG	
3	0.6860	23.66	9.68	33.34	56.00	-22.66	QP	
4	0.6860	6.84	9.68	16.52	46.00	-29.48	AVG	
5	0.9460	22.09	9.69	31.78	56.00	-24.22	QP	
6	0.9460	4.79	9.69	14.48	46.00	-31.52	AVG	
7	1.7540	22.21	9.71	31.92	56.00	-24.08	QP	
8	1.7540	5.56	9.71	15.27	46.00	-30.73	AVG	
9	3.2180	22.49	9.72	32.21	56.00	-23.79	QP	
10	3.2180	4.10	9.72	13.82	46.00	-32.18	AVG	
11	26.2660	22.15	9.87	32.02	60.00	-27.98	QP	
12	26.2660	7.80	9.87	17.67	50.00	-32.33	AVG	

Neutral:

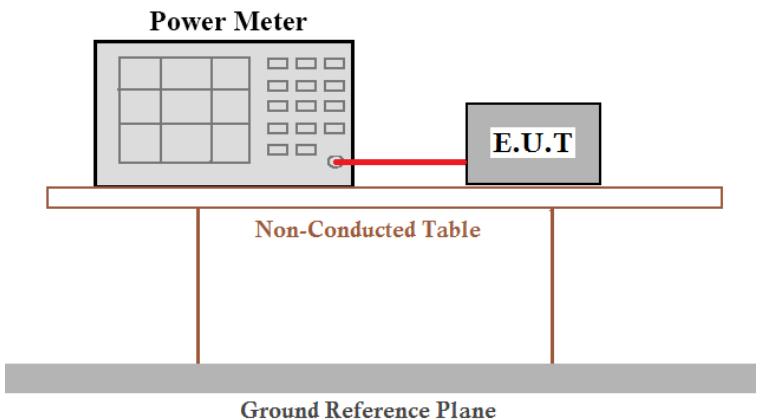


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment Limit			Over Detector	Comment
				dBuV	dB	Detector		
1 *	0.1900	32.41	9.65	42.06	64.03	-21.97	QP	
2	0.1900	5.62	9.65	15.27	54.03	-38.76	Avg	
3	0.2940	23.77	9.66	33.43	60.41	-26.98	QP	
4	0.2940	1.31	9.66	10.97	50.41	-39.44	Avg	
5	0.5820	17.33	9.68	27.01	56.00	-28.99	QP	
6	0.5820	-2.18	9.68	7.50	46.00	-38.50	Avg	
7	1.9420	16.51	9.71	26.22	56.00	-29.78	QP	
8	1.9420	-1.75	9.71	7.96	46.00	-38.04	Avg	
9	2.9380	20.86	9.72	30.58	56.00	-25.42	QP	
10	2.9380	1.17	9.72	10.89	46.00	-35.11	Avg	
11	15.5460	19.17	9.87	29.04	60.00	-30.96	QP	
12	15.5460	2.65	9.87	12.52	50.00	-37.48	Avg	

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Margin = Result (Result =Reading + Factor)–Limit
4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.

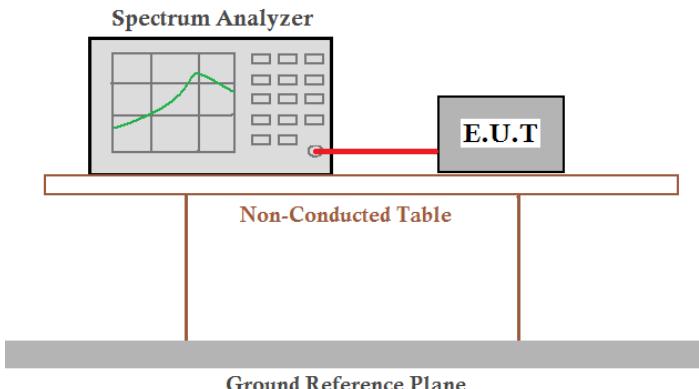
7.3 Conducted Peak Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V04
Limit:	30dBm
Test setup:	 <p>The diagram illustrates the test setup for conducted peak output power. A 'Power Meter' (a device with a grid of squares) is connected to the 'E.U.T' (Equipment Under Test) via a red cable. The E.U.T is positioned on a 'Non-Conducted Table'. The entire setup rests on a 'Ground Reference Plane'.</p>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data

Test CH	Peak Output Power (dBm)		Limit(dBm)	Result
	802.11g	802.11n(HT20)		
Lowest	8.13	8.29	30.00	Pass
Middle	8.25	8.33		
Highest	8.16	8.20		

7.4 Channel Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V04
Limit:	>500KHz
Test setup:	 <p>The diagram illustrates the test setup. A 'Spectrum Analyzer' is positioned at the top left, showing a green waveform on its screen. A red line connects the output of the spectrum analyzer to a grey rectangular box labeled 'E.U.T'. This 'E.U.T' box is placed on a horizontal brown bar labeled 'Non-Conducted Table'. Below the table is a thick grey horizontal bar labeled 'Ground Reference Plane'.</p>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

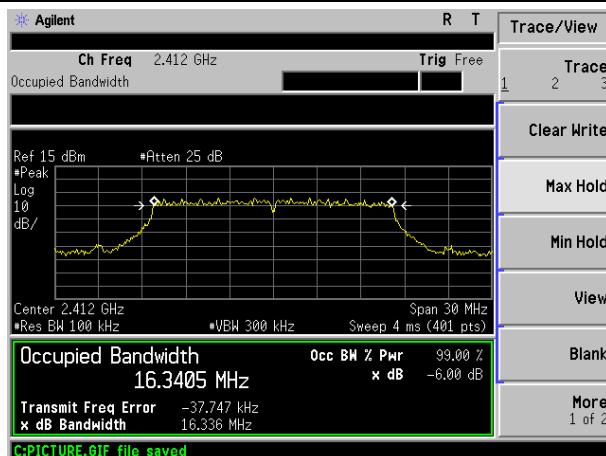
Measurement Data

Test CH	Channel Bandwidth (MHz)		Limit(KHz)	Result
	802.11g	802.11n(HT20)		
Lowest	16.366	16.252	>500	Pass
Middle	16.394	16.065		
Highest	16.363	16.616		

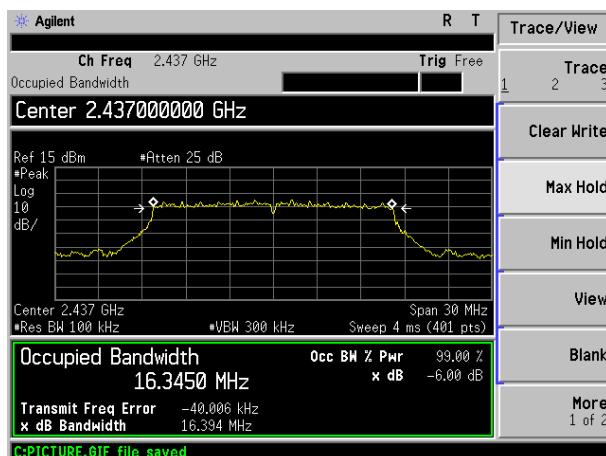
Test plot as follows:

Test mode:

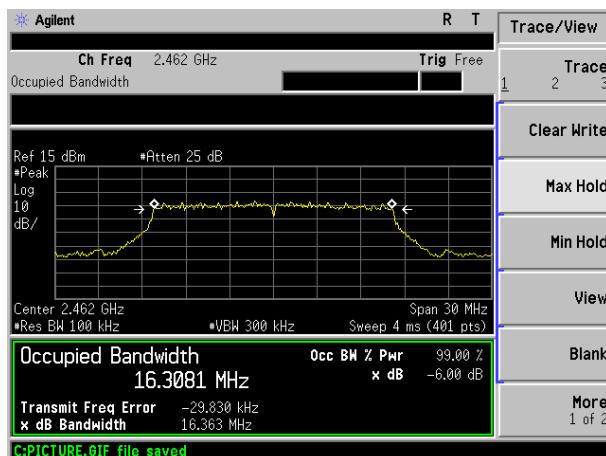
802.11g



Lowest channel



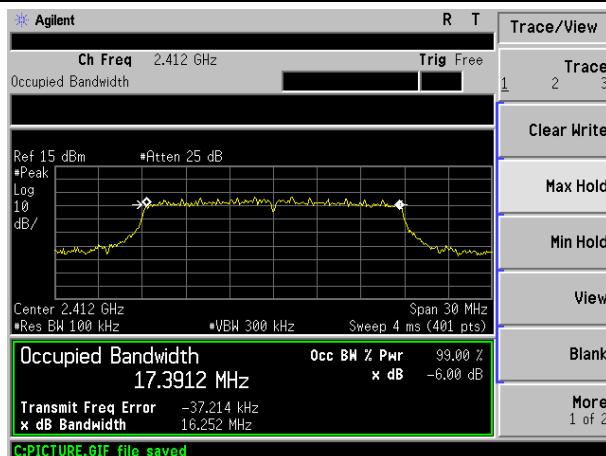
Middle channel



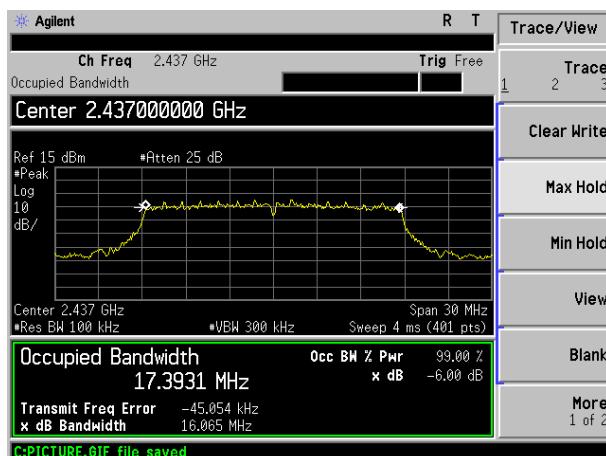
Highest channel

Test mode:

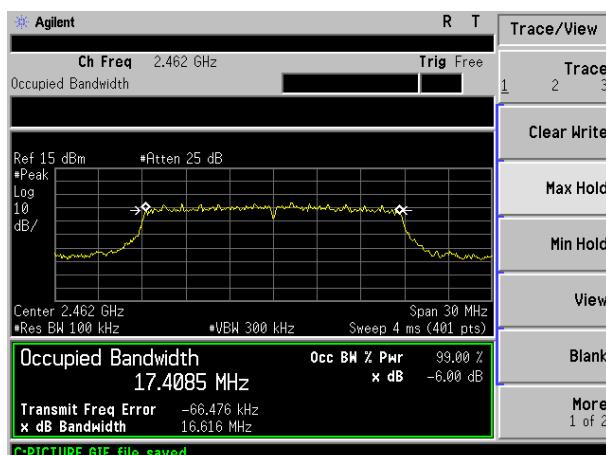
802.11n(HT20)



Lowest channel

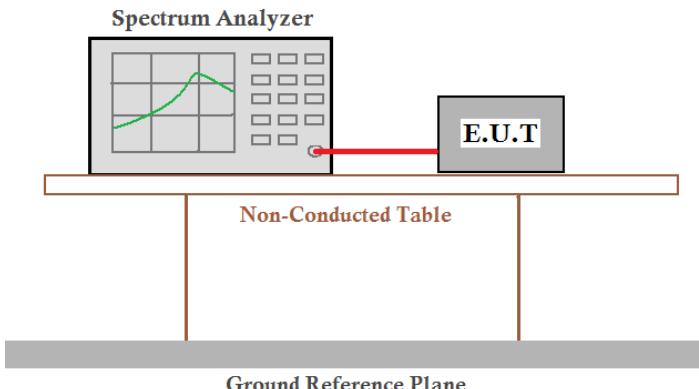


Middle channel



Highest channel

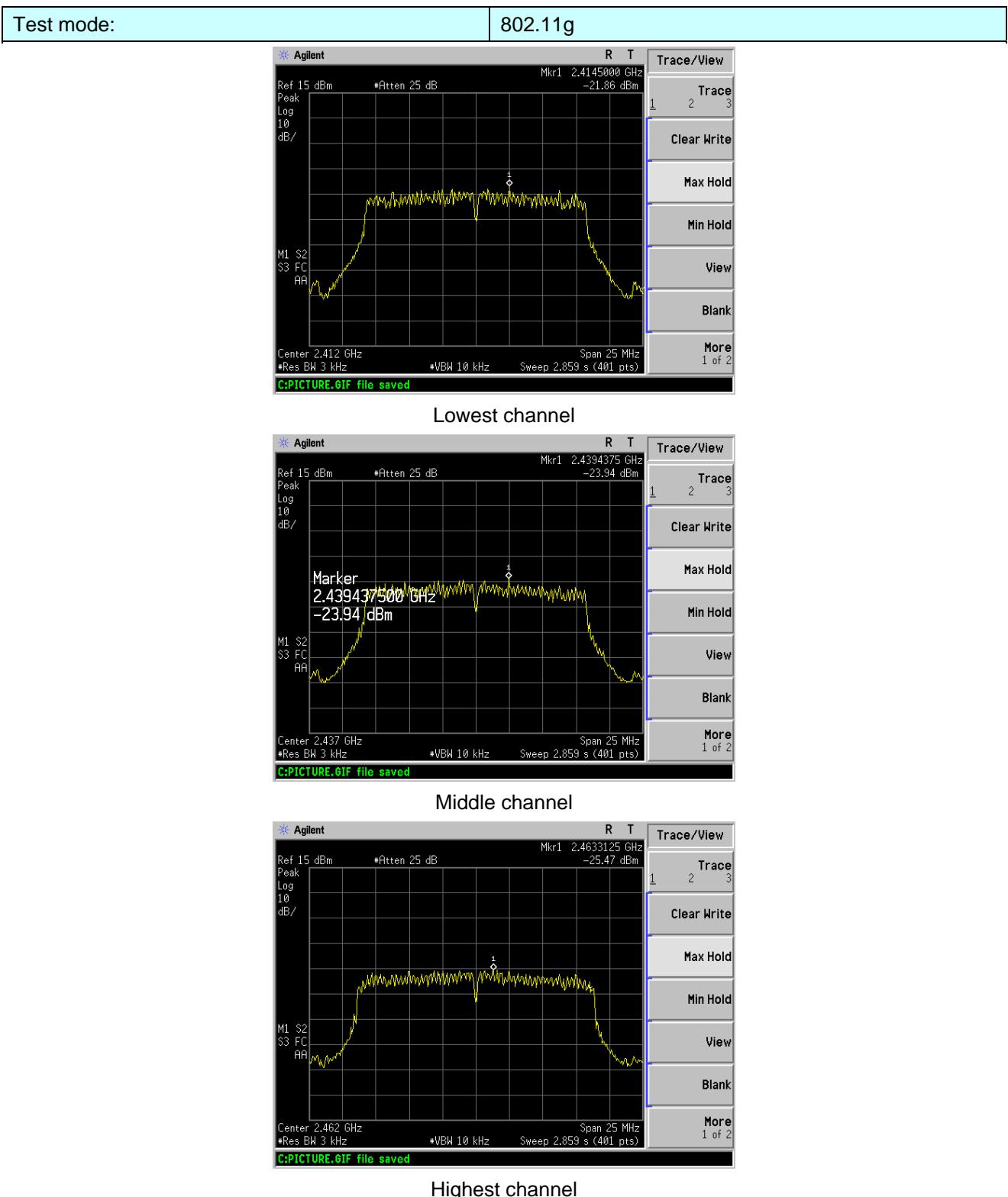
7.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V04
Limit:	8dBm/3KHz
Test setup:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data

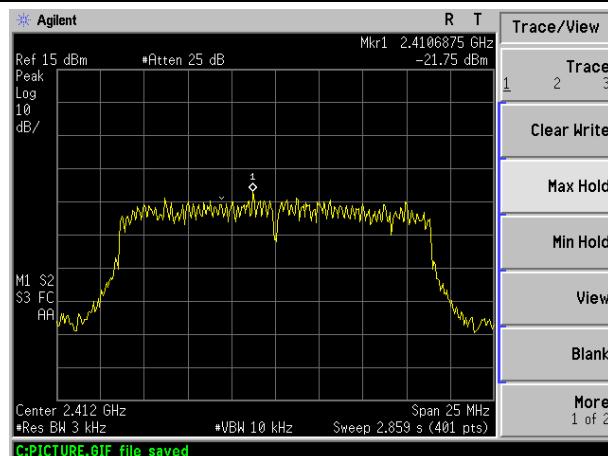
Test CH	Power Spectral Density (dBm)		Limit(dBm/3kHz)	Result
	802.11g	802.11n(HT20)		
Lowest	-21.86	-21.75	8.00	Pass
Middle	-23.94	-23.86		
Highest	-25.47	-26.96		

Test plot as follows:

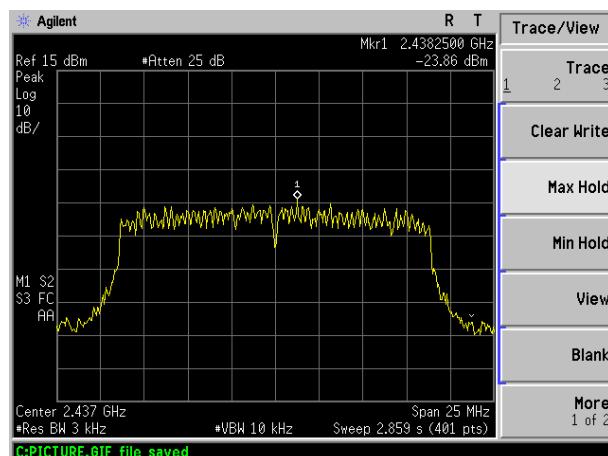


Test mode:

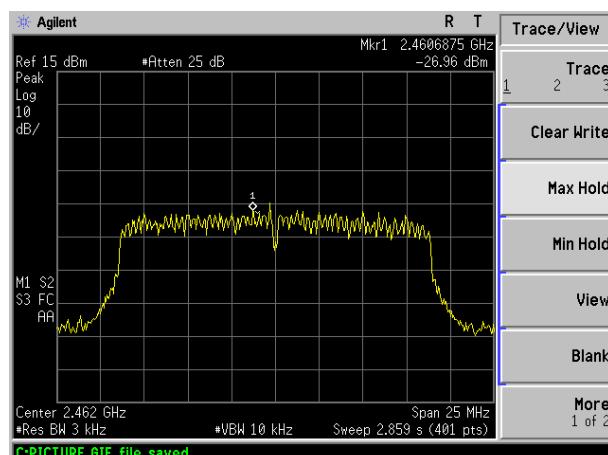
802.11n(HT20)



Lowest channel



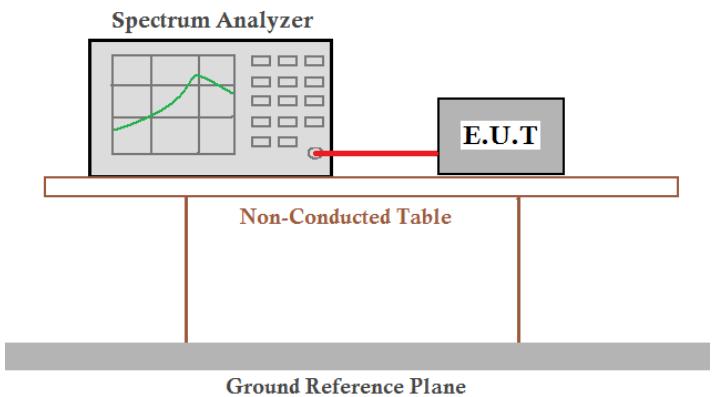
Middle channel

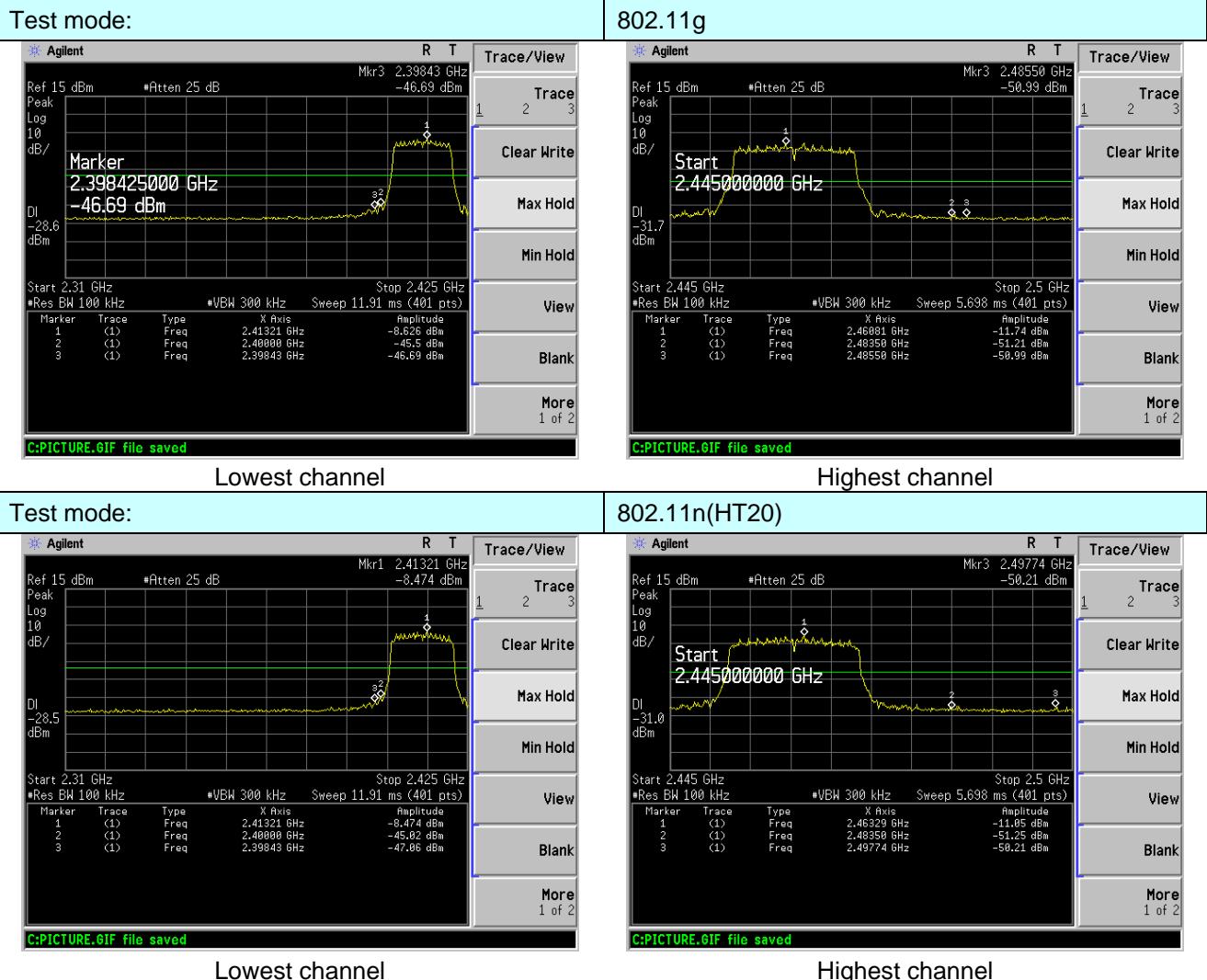


Highest channel

7.6 Band edges

7.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V04
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Test plot as follows:


7.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205							
Test Method:	ANSI C63.10:2013							
Test Frequency Range:	All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.							
Test site:	Measurement Distance: 3m							
Receiver setup:	Frequency	Detector	RBW	VBW	Value			
	Above 1GHz	Peak	1MHz	3MHz	Peak			
		RMS	1MHz	3MHz	Average			
Limit:	Frequency	Limit (dBuV/m @3m)			Value			
	Above 1GHz	54.00			Average			
		74.00			Peak			
Test setup:								
Test Procedure:	<ol style="list-style-type: none"> The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report. 							
Test Instruments:	Refer to section 6.0 for details							
Test mode:	Refer to section 5.2 for details							
Test results:	Pass							

Measurement data:

Remark: The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.

Test mode:	802.11g	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	47.36	27.59	5.38	34.01	46.32	74.00	-27.68	Horizontal
2400.00	56.24	27.58	5.39	34.01	55.20	74.00	-18.80	Horizontal
2390.00	51.48	27.59	5.38	34.01	50.44	74.00	-23.56	Vertical
2400.00	55.13	27.58	5.39	34.01	54.09	74.00	-19.91	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	39.49	27.59	5.38	34.01	38.45	54.00	-15.55	Horizontal
2400.00	46.85	27.58	5.39	34.01	45.81	54.00	-8.19	Horizontal
2390.00	38.35	27.59	5.38	34.01	37.31	54.00	-16.69	Vertical
2400.00	46.08	27.58	5.39	34.01	45.04	54.00	-8.96	Vertical

Test mode:	802.11g	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	47.97	27.53	5.47	33.92	47.05	74.00	-26.95	Horizontal
2500.00	44.75	27.55	5.49	29.93	47.86	74.00	-26.14	Horizontal
2483.50	49.01	27.53	5.47	33.92	48.09	74.00	-25.91	Vertical
2500.00	48.03	27.55	5.49	29.93	51.14	74.00	-22.86	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	38.67	27.53	5.47	33.92	37.75	54.00	-16.25	Horizontal
2500.00	35.13	27.55	5.49	29.93	38.24	54.00	-15.76	Horizontal
2483.50	39.09	27.53	5.47	33.92	38.17	54.00	-15.83	Vertical
2500.00	36.81	27.55	5.49	29.93	39.92	54.00	-14.08	Vertical

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- The emission levels of other frequencies are very lower than the limit and not show in test report.

Test mode:	802.11n(HT20)	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	47.71	27.59	5.38	34.01	46.67	74.00	-27.33	Horizontal
2400.00	56.13	27.58	5.39	34.01	55.09	74.00	-18.91	Horizontal
2390.00	51.55	27.59	5.38	34.01	50.51	74.00	-23.49	Vertical
2400.00	56.44	27.58	5.39	34.01	55.40	74.00	-18.60	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	38.30	27.59	5.38	34.01	37.26	54.00	-16.74	Horizontal
2400.00	47.11	27.58	5.39	34.01	46.07	54.00	-7.93	Horizontal
2390.00	38.76	27.59	5.38	34.01	37.72	54.00	-16.28	Vertical
2400.00	46.25	27.58	5.39	34.01	45.21	54.00	-8.79	Vertical

Test mode:	802.11n(HT20)	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	49.25	27.53	5.47	33.92	48.33	74.00	-25.67	Horizontal
2500.00	46.11	27.55	5.49	29.93	49.22	74.00	-24.78	Horizontal
2483.50	52.48	27.53	5.47	33.92	51.56	74.00	-22.44	Vertical
2500.00	47.97	27.55	5.49	29.93	51.08	74.00	-22.92	Vertical

Average value:

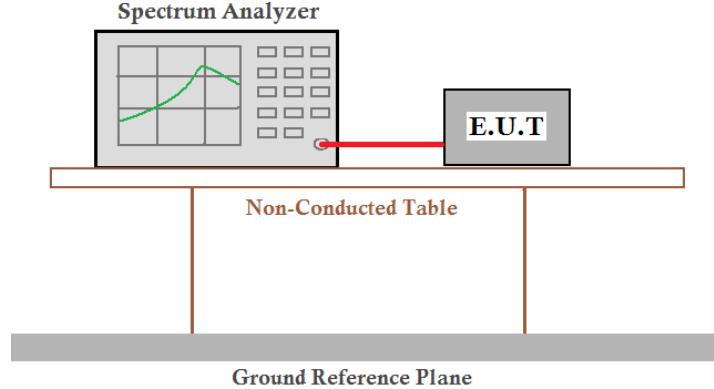
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	36.63	27.53	5.47	33.92	35.71	54.00	-18.29	Horizontal
2500.00	32.31	27.55	5.49	29.93	35.42	54.00	-18.58	Horizontal
2483.50	39.55	27.53	5.47	33.92	38.63	54.00	-15.37	Vertical
2500.00	36.95	27.55	5.49	29.93	40.06	54.00	-13.94	Vertical

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

7.7 Spurious Emission

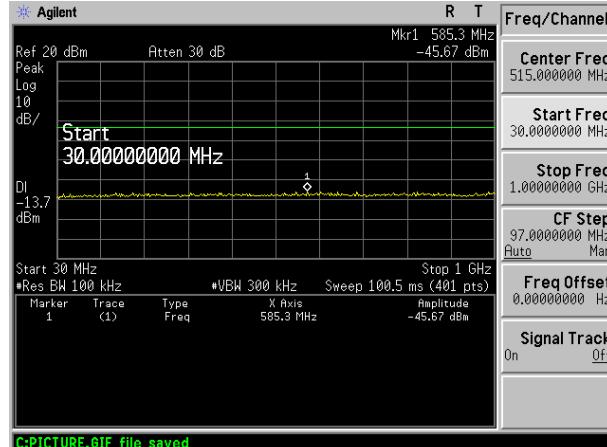
7.7.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V04
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

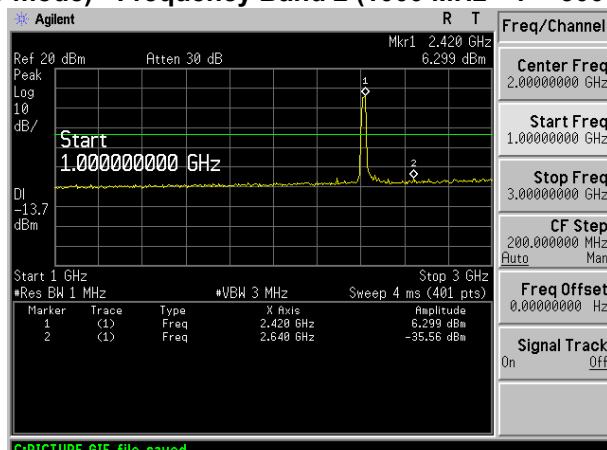
Test plot as follows:

Operation Mode:	802.11 G mode(CH1, CH6, CH11)
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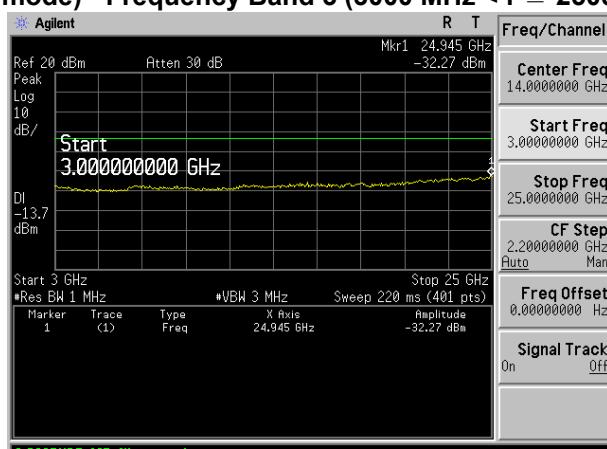
CH 1 (G mode) - Frequency Band 1 (30 MHz $\leq f \leq$ 1000 MHz)



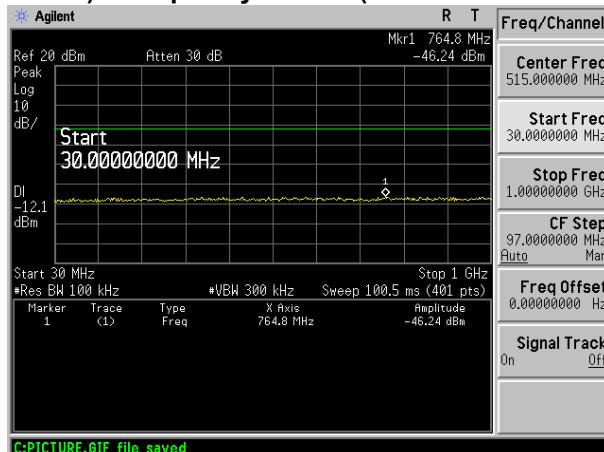
CH 1 (G mode) - Frequency Band 2 (1000 MHz < f \leq 3000 MHz)



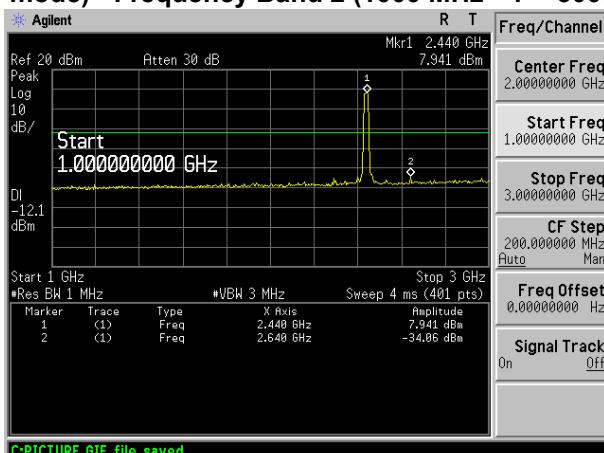
CH 1 (G mode) - Frequency Band 3 (3000 MHz < f \leq 25000 MHz)



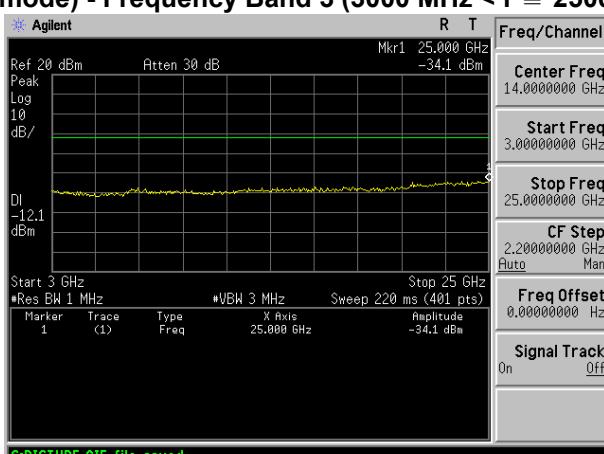
CH 6 (G mode) - Frequency Band 1 (30 MHz \leq f \leq 1000 MHz)

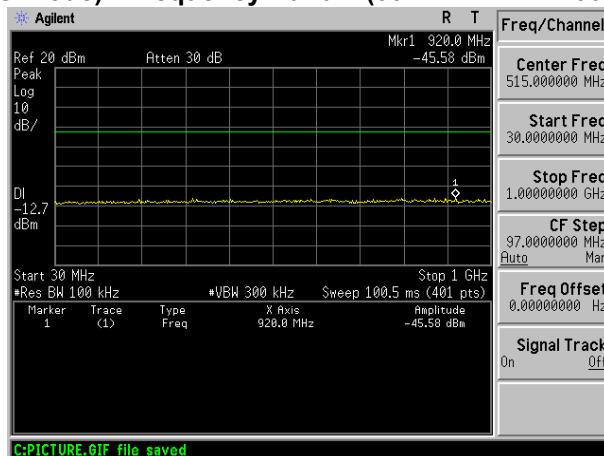
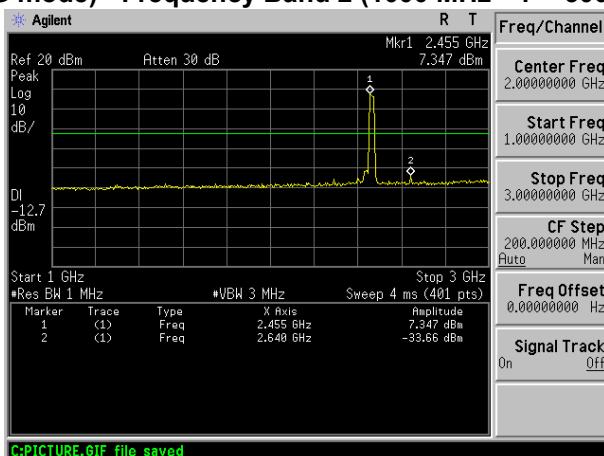
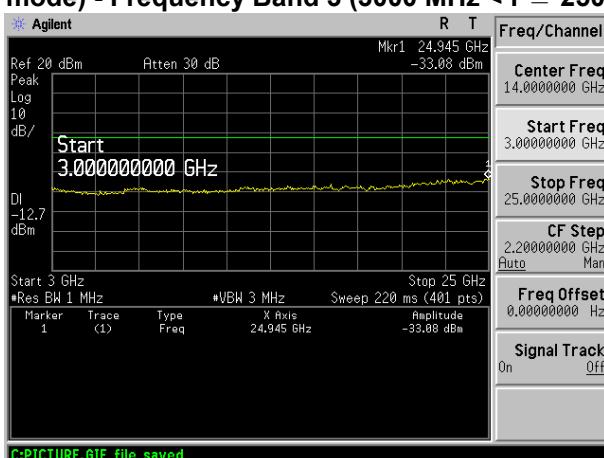


CH 6 (G mode) - Frequency Band 2 (1000 MHz < f \leq 3000 MHz)



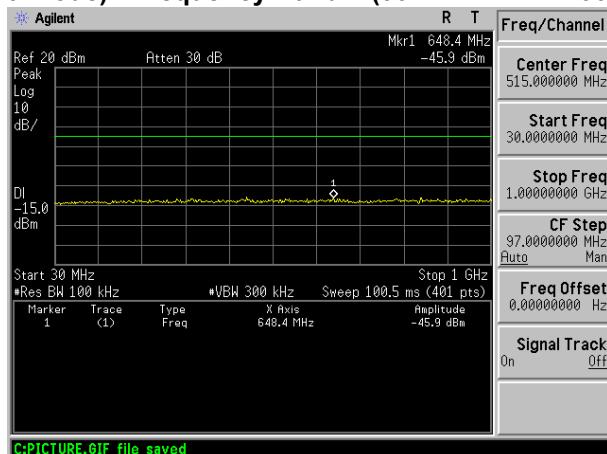
CH 6 (G mode) - Frequency Band 3 (3000 MHz < f \leq 25000 MHz)



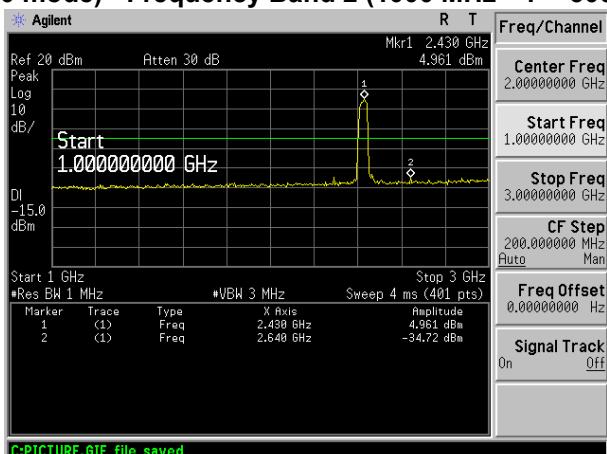
CH 11 (G mode) - Frequency Band 1 (30 MHz $\leq f \leq$ 1000 MHz)

CH 11 (G mode) - Frequency Band 2 (1000 MHz < f \leq 3000 MHz)

CH 11 (G mode) - Frequency Band 3 (3000 MHz < f \leq 25000 MHz)


Operation Mode:	802.11 n20 mode(CH1, CH6, CH11)
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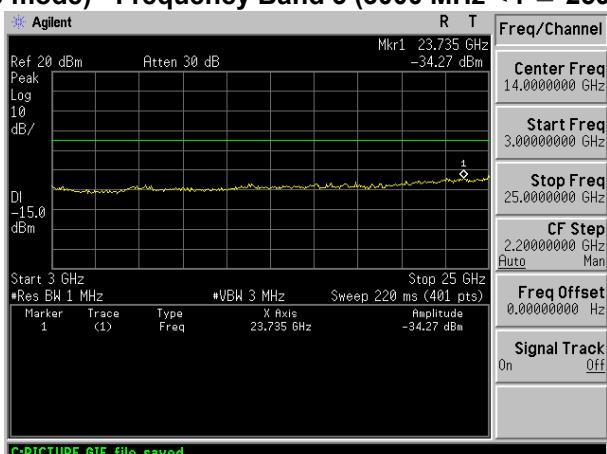
CH 1 (n20 mode) - Frequency Band 1 ($30 \text{ MHz} \leq f \leq 1000 \text{ MHz}$)



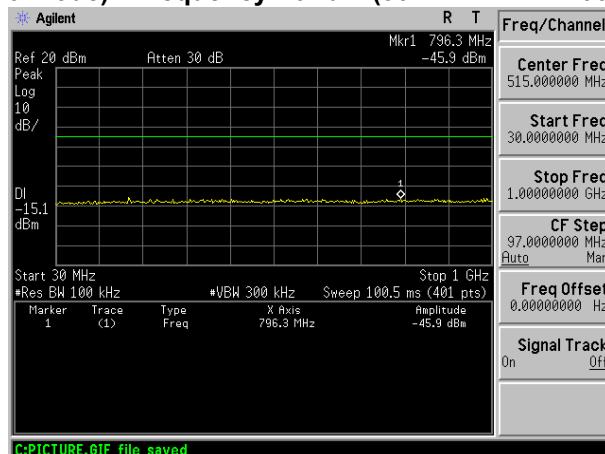
CH 1 (n20 mode) - Frequency Band 2 ($1000 \text{ MHz} < f \leq 3000 \text{ MHz}$)



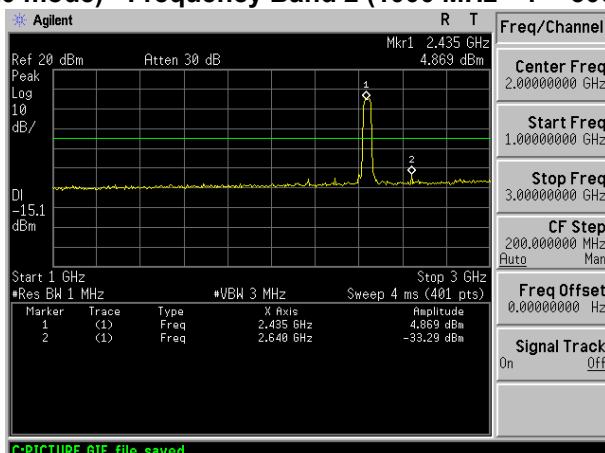
CH 1 (n20 mode) - Frequency Band 3 ($3000 \text{ MHz} < f \leq 25000 \text{ MHz}$)



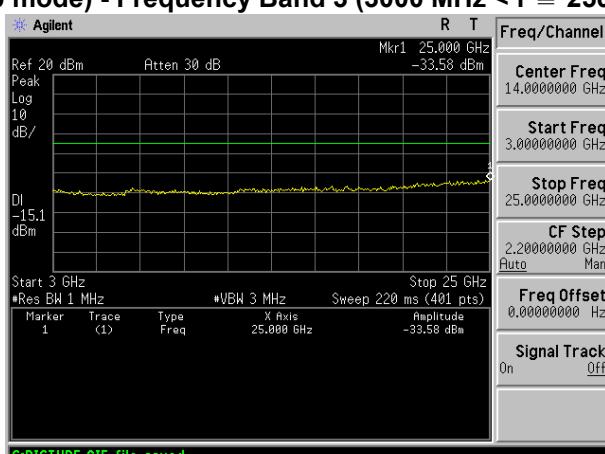
CH 6 (n20 mode) - Frequency Band 1 ($30 \text{ MHz} \leq f \leq 1000 \text{ MHz}$)

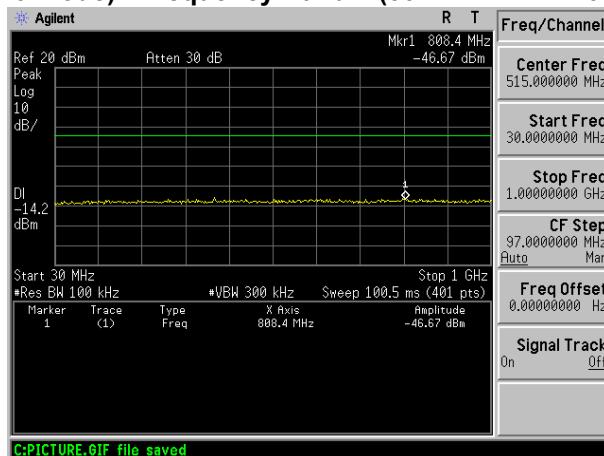
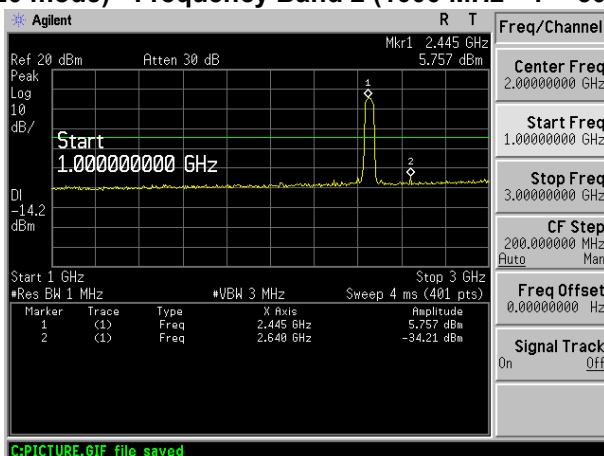
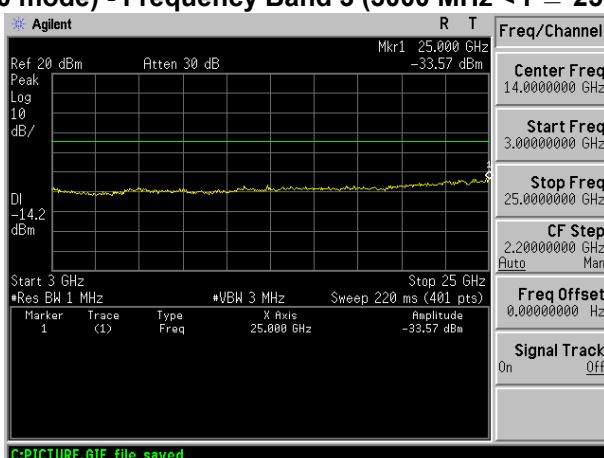


CH 6 (n20 mode) - Frequency Band 2 ($1000 \text{ MHz} < f \leq 3000 \text{ MHz}$)



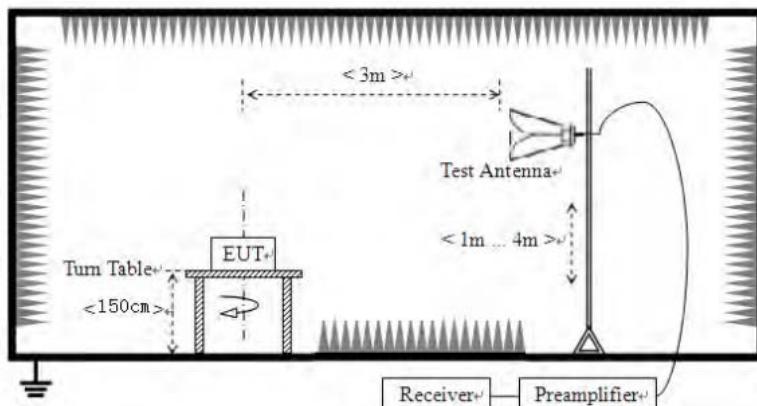
CH 6 (n20 mode) - Frequency Band 3 ($3000 \text{ MHz} < f \leq 25000 \text{ MHz}$)



CH 11 (n20 mode) - Frequency Band 1 (30 MHz $\leq f \leq$ 1000 MHz)

CH 11 (n20 mode) - Frequency Band 2 (1000 MHz < f \leq 3000 MHz)

CH 11 (n20 mode) - Frequency Band 3 (3000 MHz < f \leq 25000 MHz)


7.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209								
Test Method:	ANSI C63.10:2013								
Test Frequency Range:	30MHz to 25GHz								
Test site:	Measurement Distance: 3m								
Receiver setup:	Frequency	Detector	RBW	VBW	Value				
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak				
	Above 1GHz	Peak	1MHz	3MHz	Peak				
		RMS	1MHz	3MHz	Average				
Limit:	Frequency	Limit (dB _{UV} /m @3m)		Value					
	30MHz-88MHz	40.00		Quasi-peak					
	88MHz-216MHz	43.50		Quasi-peak					
	216MHz-960MHz	46.00		Quasi-peak					
	960MHz-1GHz	54.00		Quasi-peak					
	Above 1GHz	54.00		Average					
		74.00		Peak					
Test setup:	Below 1GHz								
	Above 1GHz								



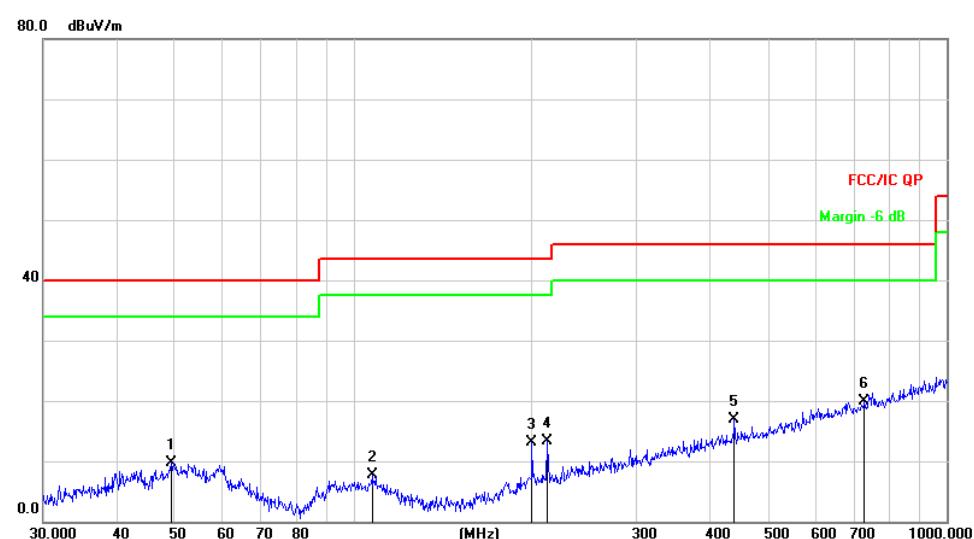
Test Procedure:	<ol style="list-style-type: none"> The EUT was placed on the top of a rotating table(0.8 meters below 1G and 1.5 meters above 1G) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Remark:

Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

Measurement Data
■ Below 1GHz

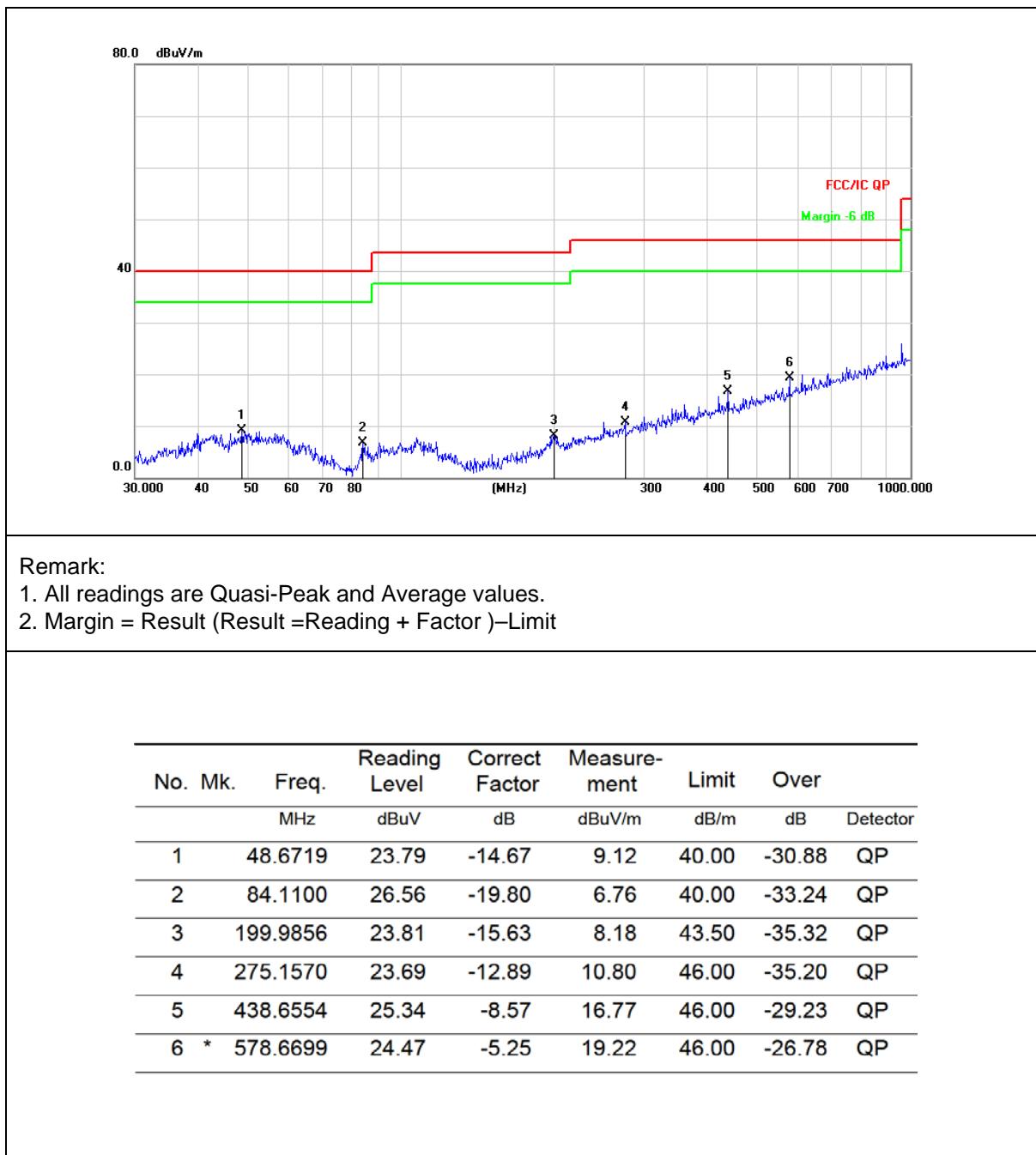
EUT :	Lebella Bees AI Education Robot	Model Name :	A1
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Polarization :	Horizontal
Test Voltage :	AC 120V/60Hz	Test Mode :	Link Mode


Remark:

1. All readings are Quasi-Peak and Average values.
2. Margin = Result (Result =Reading + Factor)–Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		49.3594	24.48	-14.70	9.78	40.00	-30.22	QP
2		107.5100	24.03	-16.31	7.72	43.50	-35.78	QP
3		199.9856	28.67	-15.63	13.04	43.50	-30.46	QP
4		212.2694	29.06	-15.79	13.27	43.50	-30.23	QP
5		438.6553	25.41	-8.57	16.84	46.00	-29.16	QP
6	*	726.8052	22.20	-2.38	19.82	46.00	-26.18	QP

EUT :	Lebella Bees AI Education Robot	Model Name :	A1
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Polarization :	Vertical
Test Voltage :	AC 120V/60Hz	Test Mode :	Link Mode



■ Above 1GHz

Test mode:	802.11g	Test channel:	lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	37.43	31.79	8.62	32.10	45.74	74.00	-28.26	Vertical
7236.00	32.78	36.19	11.68	31.97	48.68	74.00	-25.32	Vertical
9648.00	31.82	38.07	14.16	31.56	52.49	74.00	-21.51	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	36.90	31.79	8.62	32.10	45.21	74.00	-28.79	Horizontal
7236.00	32.74	36.19	11.68	31.97	48.64	74.00	-25.36	Horizontal
9648.00	31.16	38.07	14.16	31.56	51.83	74.00	-22.17	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	28.94	31.79	8.62	32.10	37.25	54.00	-16.75	Vertical
7236.00	23.02	36.19	11.68	31.97	38.92	54.00	-15.08	Vertical
9648.00	22.10	38.07	14.16	31.56	42.77	54.00	-11.23	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	29.03	31.79	8.62	32.10	37.34	54.00	-16.66	Horizontal
7236.00	22.48	36.19	11.68	31.97	38.38	54.00	-15.62	Horizontal
9648.00	22.65	38.07	14.16	31.56	43.32	54.00	-10.68	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

1. Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. ***, means this data is the too weak instrument of signal is unable to test.

Test mode:	802.11g	Test channel:	Middle
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	39.17	31.85	8.66	32.12	47.56	74.00	-26.44	Vertical
7311.00	32.22	36.37	11.71	31.91	48.39	74.00	-25.61	Vertical
9748.00	33.03	38.27	14.25	31.56	53.99	74.00	-20.01	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	38.67	31.85	8.66	32.12	47.06	74.00	-26.94	Horizontal
7311.00	33.03	36.37	11.71	31.91	49.20	74.00	-24.80	Horizontal
9748.00	32.49	38.27	14.25	31.56	53.45	74.00	-20.55	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	27.87	31.85	8.66	32.12	36.26	54.00	-17.74	Vertical
7311.00	23.13	36.37	11.71	31.91	39.30	54.00	-14.70	Vertical
9748.00	22.85	38.27	14.25	31.56	43.81	54.00	-10.19	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.20	31.85	8.66	32.12	37.59	54.00	-16.41	Horizontal
7311.00	24.48	36.37	11.71	31.91	40.65	54.00	-13.35	Horizontal
9748.00	23.73	38.27	14.25	31.56	44.69	54.00	-9.31	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

1. Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. ***, means this data is the too weak instrument of signal is unable to test.

Test mode:	802.11g	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	40.94	31.90	8.70	32.15	49.39	74.00	-24.61	Vertical
7386.00	31.31	36.49	11.76	31.83	47.73	74.00	-26.27	Vertical
9848.00	31.72	38.62	14.31	31.77	52.88	74.00	-21.12	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	41.29	31.90	8.70	32.15	49.74	74.00	-24.26	Horizontal
7386.00	33.14	36.49	11.76	31.83	49.56	74.00	-24.44	Horizontal
9848.00	32.27	38.62	14.31	31.77	53.43	74.00	-20.57	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	34.39	31.90	8.70	32.15	42.84	54.00	-11.16	Vertical
7386.00	24.08	36.49	11.76	31.83	40.50	54.00	-13.50	Vertical
9848.00	23.62	38.62	14.31	31.77	44.78	54.00	-9.22	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	33.32	31.90	8.70	32.15	41.77	54.00	-12.23	Horizontal
7386.00	23.59	36.49	11.76	31.83	40.01	54.00	-13.99	Horizontal
9848.00	22.28	38.62	14.31	31.77	43.44	54.00	-10.56	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

- Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- **, means this data is the too weak instrument of signal is unable to test.

Test mode:	802.11n(HT20)	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	38.64	31.79	8.62	32.10	46.95	74.00	-27.05	Vertical
7236.00	33.21	36.19	11.68	31.97	49.11	74.00	-24.89	Vertical
9648.00	32.67	38.07	14.16	31.56	53.34	74.00	-20.66	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	38.19	31.79	8.62	32.10	46.50	74.00	-27.50	Horizontal
7236.00	34.25	36.19	11.68	31.97	50.15	74.00	-23.85	Horizontal
9648.00	32.03	38.07	14.16	31.56	52.70	74.00	-21.30	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	29.70	31.79	8.62	32.10	38.01	54.00	-15.99	Vertical
7236.00	24.86	36.19	11.68	31.97	40.76	54.00	-13.24	Vertical
9648.00	23.34	38.07	14.16	31.56	44.01	54.00	-9.99	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	29.61	31.79	8.62	32.10	37.92	54.00	-16.08	Horizontal
7236.00	24.30	36.19	11.68	31.97	40.20	54.00	-13.80	Horizontal
9648.00	22.17	38.07	14.16	31.56	42.84	54.00	-11.16	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

- Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- **, means this data is the too weak instrument of signal is unable to test.

Test mode:	802.11n(HT20)	Test channel:	Middle
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	39.31	31.85	8.66	32.12	47.70	74.00	-26.30	Vertical
7311.00	33.49	36.37	11.71	31.91	49.66	74.00	-24.34	Vertical
9748.00	32.02	38.27	14.25	31.56	52.98	74.00	-21.02	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	37.36	31.85	8.66	32.12	45.75	74.00	-28.25	Horizontal
7311.00	29.41	36.37	11.71	31.91	45.58	74.00	-28.42	Horizontal
9748.00	30.48	38.27	14.25	31.56	51.44	74.00	-22.56	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	29.30	31.85	8.66	32.12	37.69	54.00	-16.31	Vertical
7311.00	22.92	36.37	11.71	31.91	39.09	54.00	-14.91	Vertical
9748.00	23.69	38.27	14.25	31.56	44.65	54.00	-9.35	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.37	31.85	8.66	32.12	37.76	54.00	-16.24	Horizontal
7311.00	22.42	36.37	11.71	31.91	38.59	54.00	-15.41	Horizontal
9748.00	24.13	38.27	14.25	31.56	45.09	54.00	-8.91	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

1. Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. ***, means this data is the too weak instrument of signal is unable to test.

Test mode:	802.11n(HT20)	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	39.94	31.90	8.70	32.15	48.39	74.00	-25.61	4924.00
7386.00	31.48	36.49	11.76	31.83	47.90	74.00	-26.10	7386.00
9848.00	33.15	38.62	14.31	31.77	54.31	74.00	-19.69	9848.00
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	42.77	31.90	8.70	32.15	51.22	74.00	-22.78	Horizontal
7386.00	32.30	36.49	11.76	31.83	48.72	74.00	-25.28	Horizontal
9848.00	32.61	38.62	14.31	31.77	53.77	74.00	-20.23	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	31.59	31.90	8.70	32.15	40.04	54.00	-13.96	Vertical
7386.00	22.72	36.49	11.76	31.83	39.14	54.00	-14.86	Vertical
9848.00	23.18	38.62	14.31	31.77	44.34	54.00	-9.66	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	33.24	31.90	8.70	32.15	41.69	54.00	-12.31	Horizontal
7386.00	24.04	36.49	11.76	31.83	40.46	54.00	-13.54	Horizontal
9848.00	23.18	38.62	14.31	31.77	44.34	54.00	-9.66	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

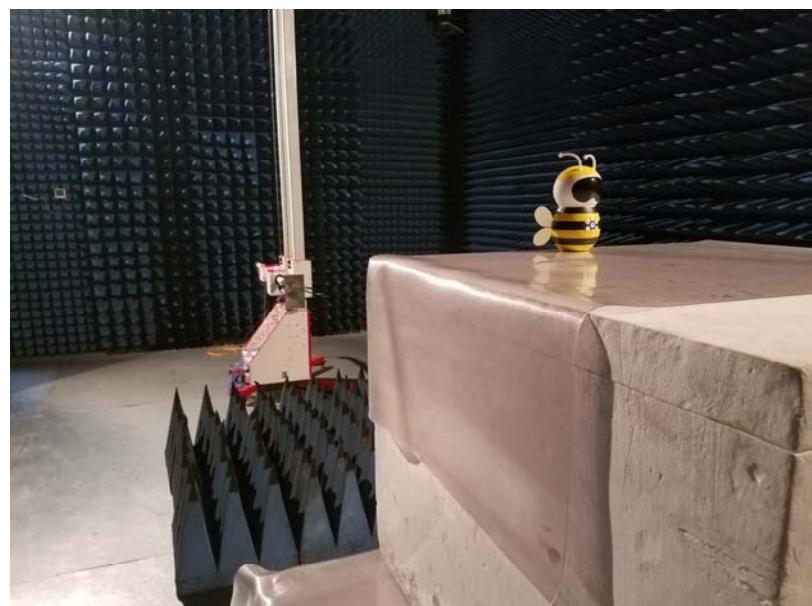
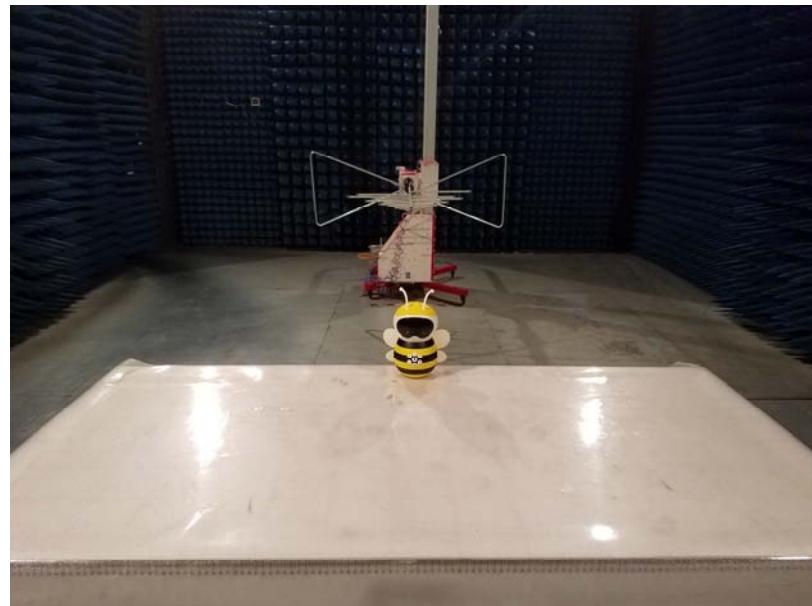
Remark:

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

2 “**”, means this data is the too weak instrument of signal is unable to test.

8 Test Setup Photo

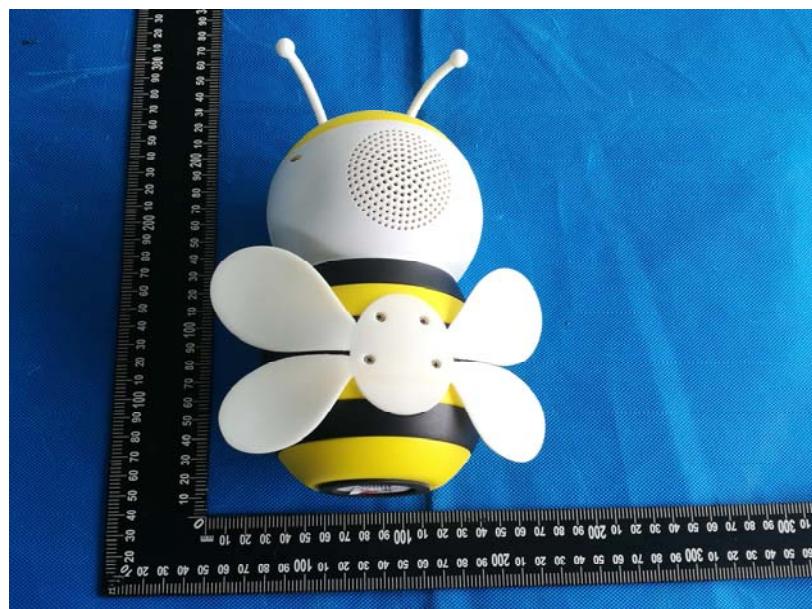
Radiated Emission

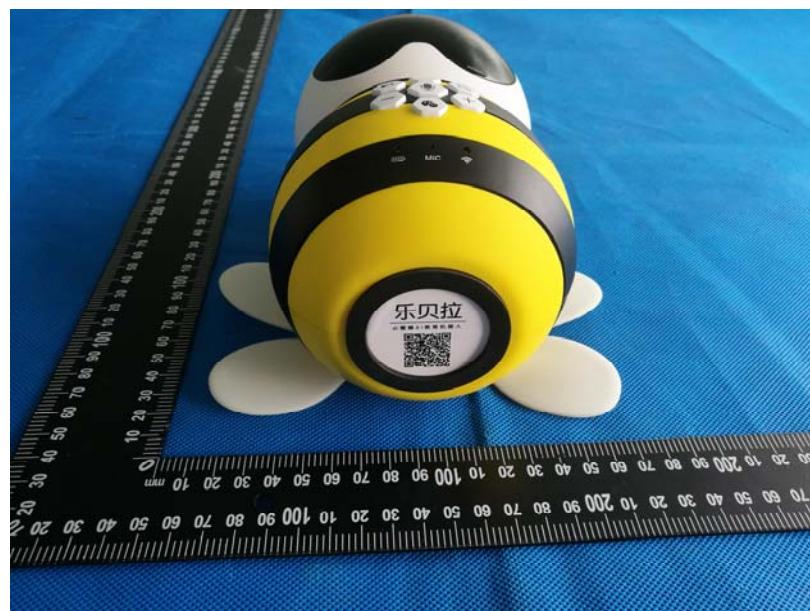


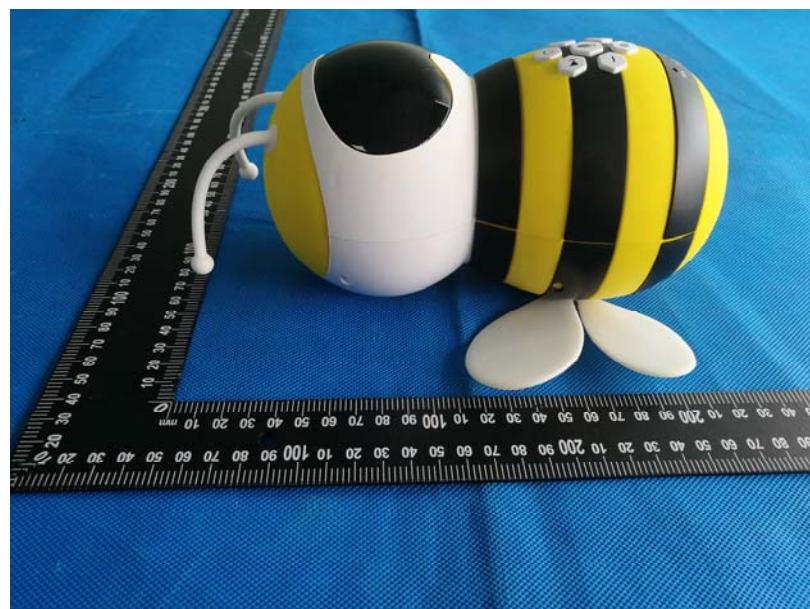
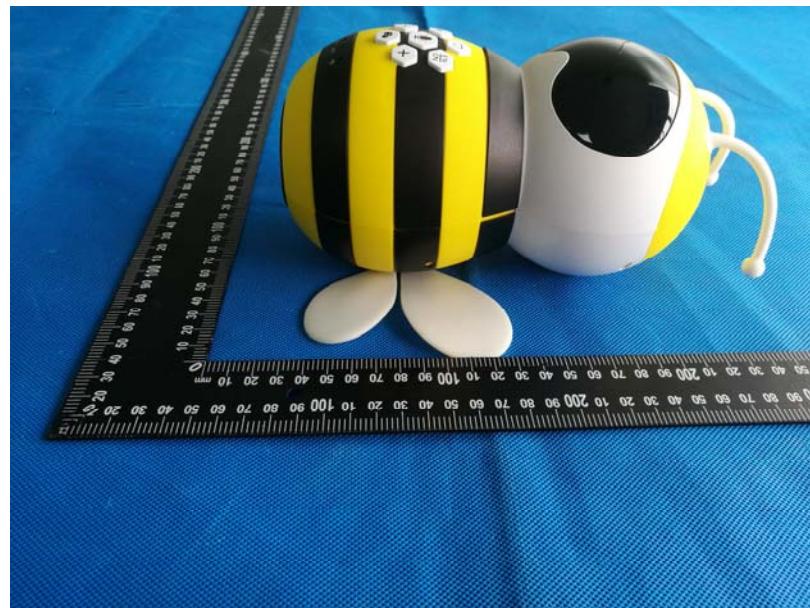
Conducted Emission

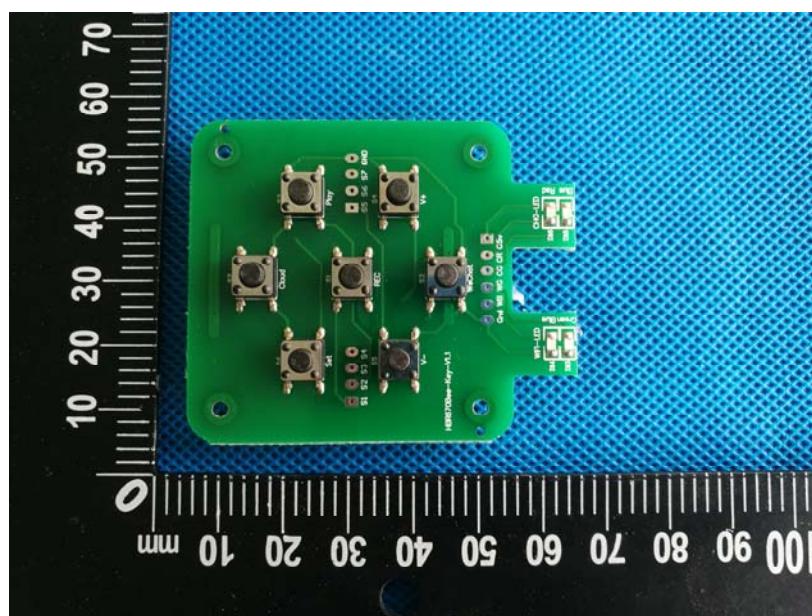
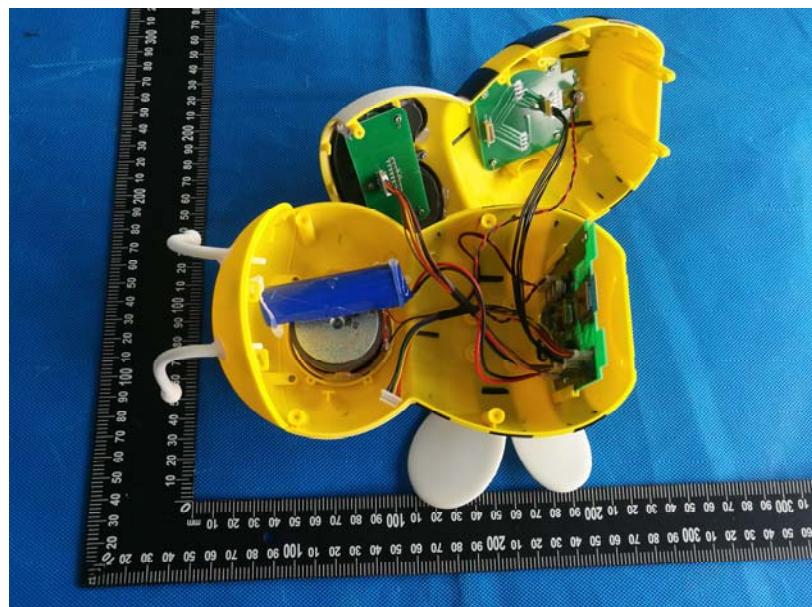


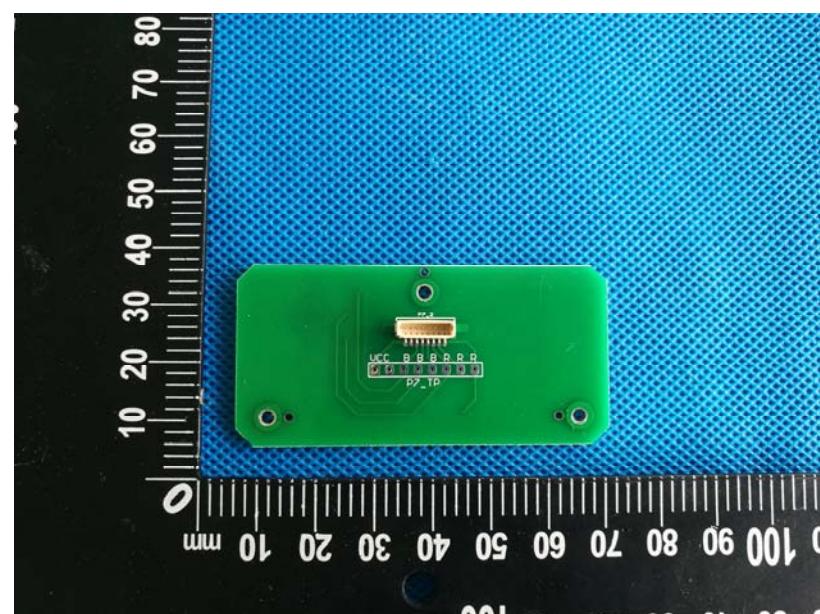
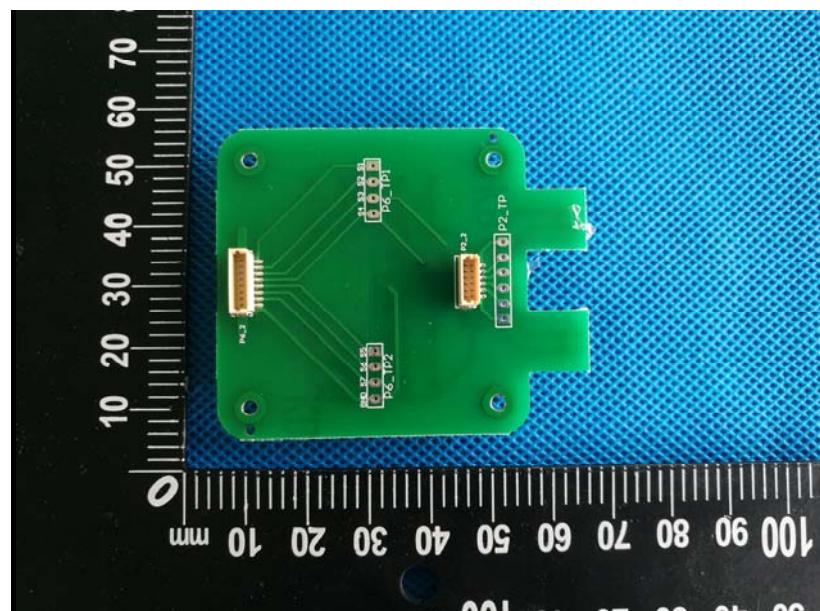
9 EUT Constructional Details

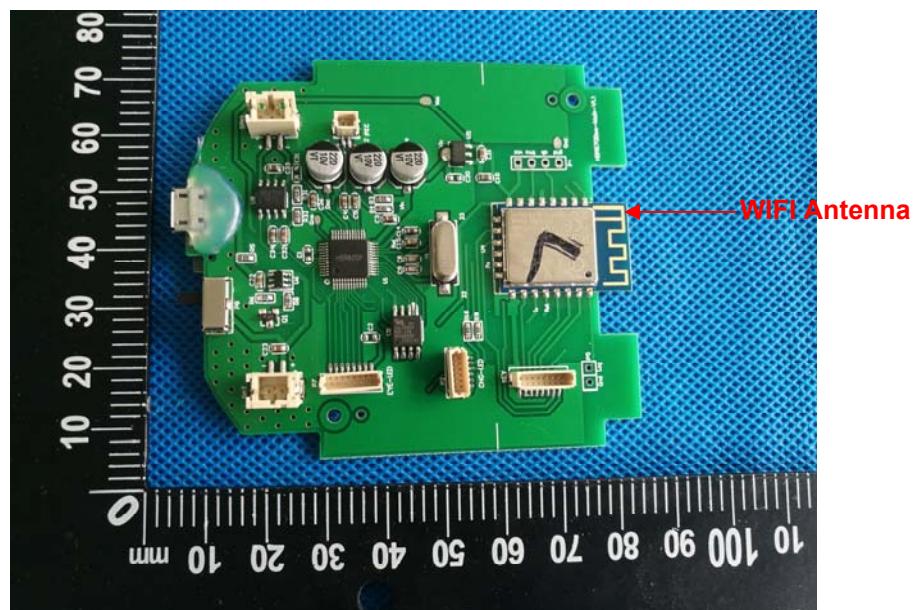
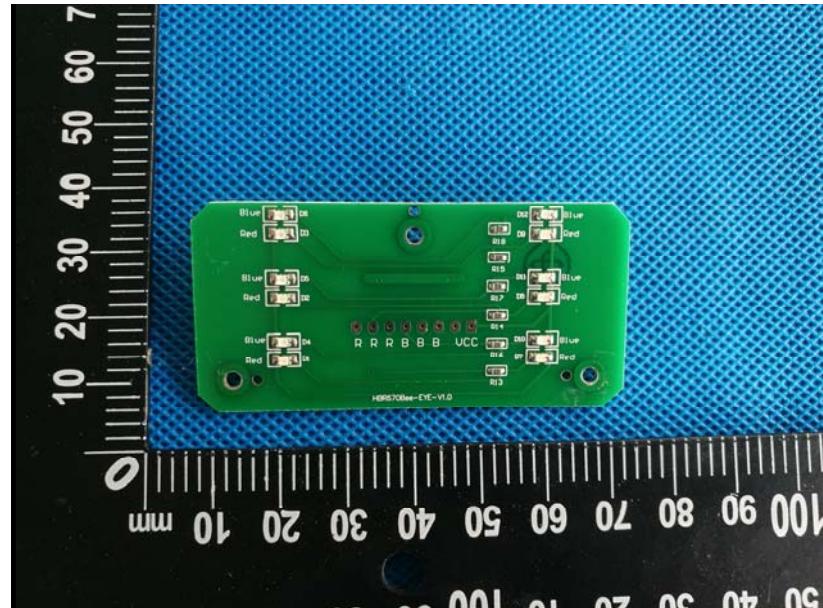


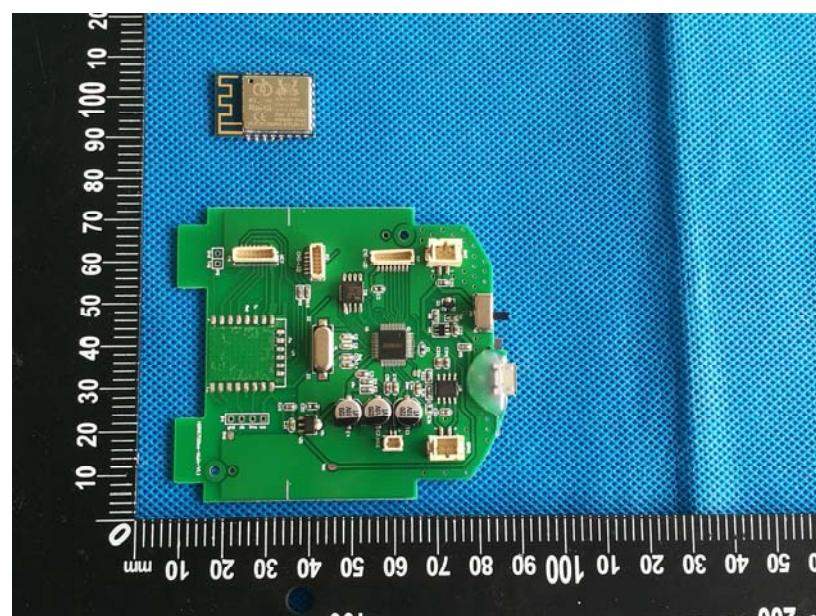
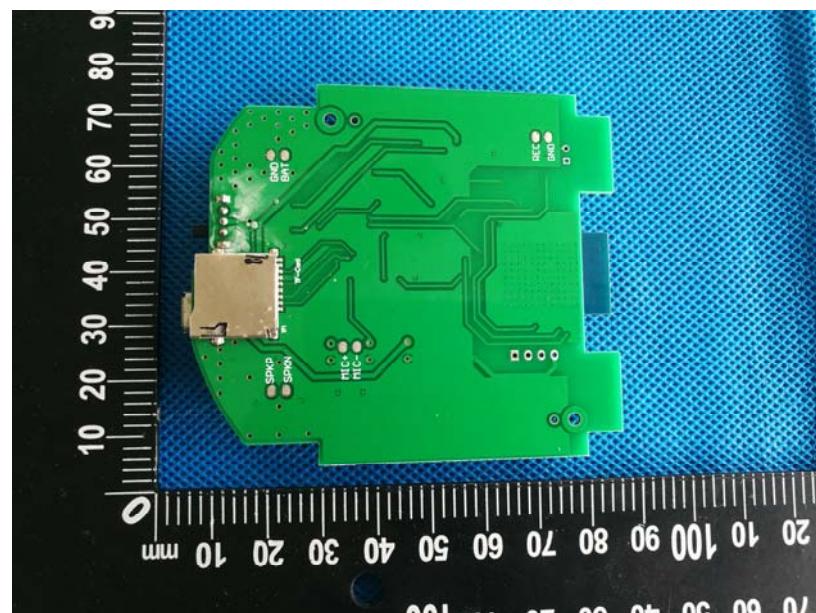


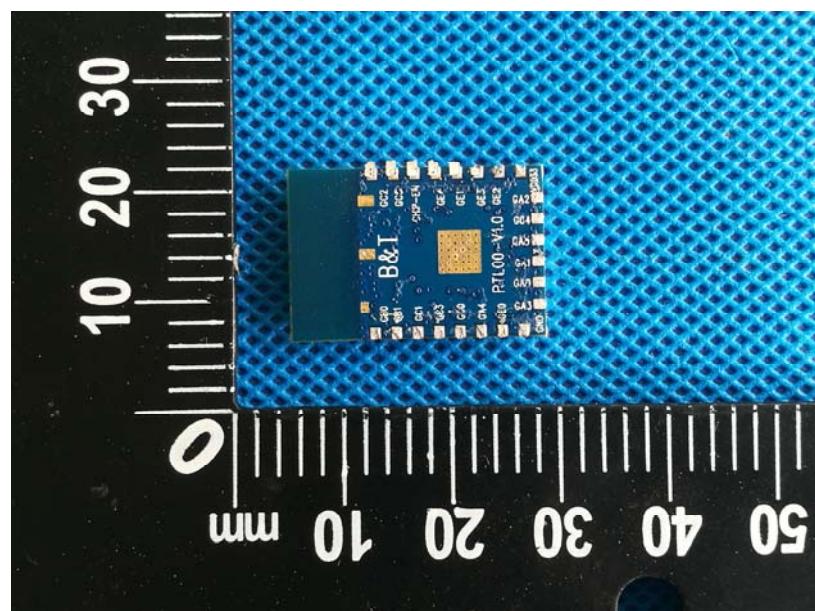
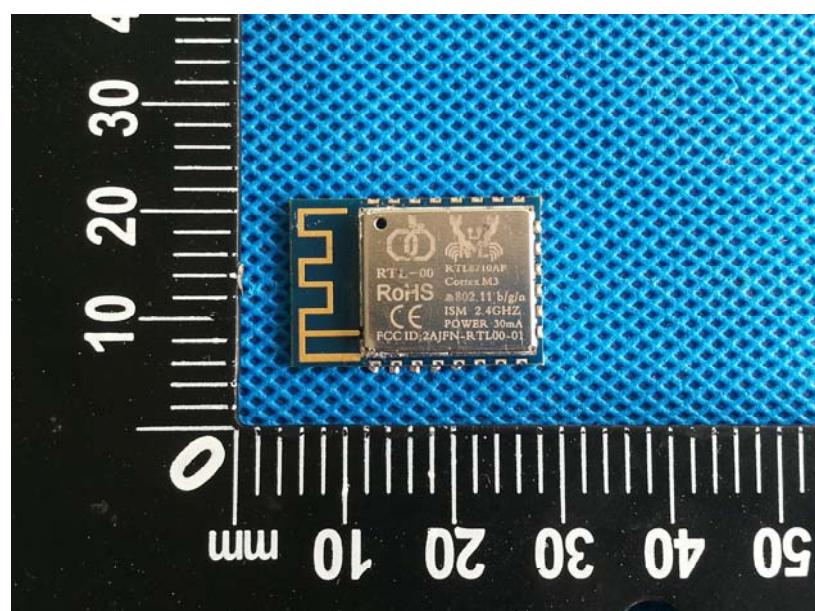


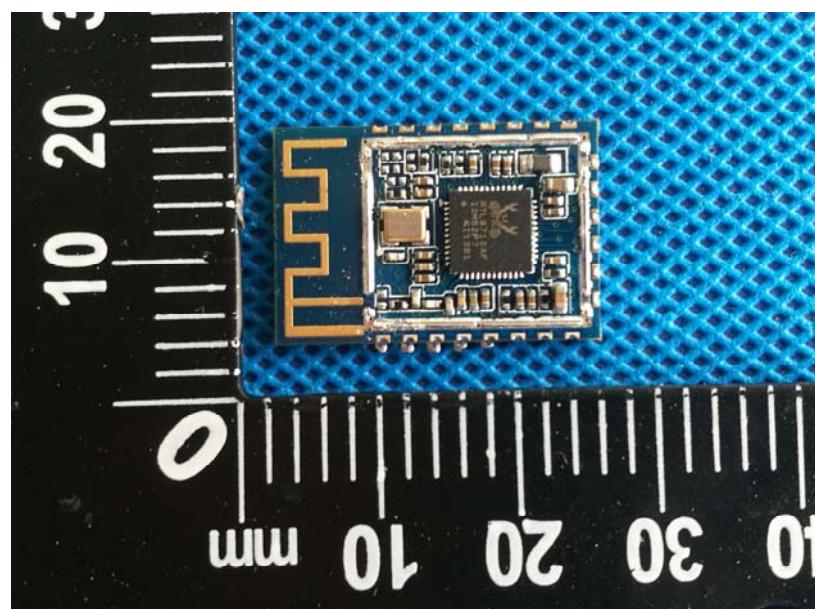












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