

# FCC REPORT

**Applicant:** Shenzhen Aratek Biometrics Technology Co., Ltd.

**Address of Applicant:** 2F, T2-A Building, ShenZhen Software Park, South Area, Hi-Tech Park, Shenzhen, Guangdong, China

**Equipment Under Test (EUT)**

Product Name: BA8200-T, BA8200

Model No.: BA8200-T, BA8200

**FCC ID:** 2AGUJBA8200

**Applicable standards:** FCC CFR Title 47 Part 15 Subpart B

**Date of sample receipt:** 15 Jun., 2020

**Date of Test:** 16 Jun., to 08 Sep., 2020

**Date of report issued:** 09 Sep., 2020

**Test Result:** PASS \*

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

Authorized Signature:



Bruce Zhang  
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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## 2 Version

Version No.	Date	Description
00	09 Sep., 2020	Original

**Tested by:** Yoyo Wu **Date:** 09 Sep., 2020  
**Test Engineer**

**Reviewed by:** Winner Zhang **Date:** 09 Sep., 2020  
**Project Engineer**

## 3 Contents

	Page
<b>1 COVER PAGE.....</b>	<b>1</b>
<b>2 VERSION .....</b>	<b>2</b>
<b>3 CONTENTS .....</b>	<b>3</b>
<b>4 TEST SUMMARY.....</b>	<b>4</b>
<b>5 GENERAL INFORMATION.....</b>	<b>5</b>
5.1 CLIENT INFORMATION .....	5
5.2 GENERAL DESCRIPTION OF E.U.T. ....	5
5.3 TEST MODE.....	5
5.4 MEASUREMENT UNCERTAINTY.....	5
5.5 DESCRIPTION OF SUPPORT UNITS .....	6
5.6 RELATED SUBMITTAL(S) / GRANT (S).....	6
5.7 DESCRIPTION OF CABLE USED .....	6
5.8 ADDITIONS TO, DEVIATIONS, OR EXCLUSIONS FROM THE METHOD .....	6
5.9 LABORATORY FACILITY .....	6
5.10 LABORATORY LOCATION.....	6
5.11 TEST INSTRUMENTS LIST .....	7
<b>6 TEST RESULTS AND MEASUREMENT DATA .....</b>	<b>8</b>
6.1 CONDUCTED EMISSION.....	8
6.2 RADIATED EMISSION .....	11
<b>7 TEST SETUP PHOTO .....</b>	<b>17</b>
<b>8 EUT CONSTRUCTIONAL DETAILS .....</b>	<b>18</b>

## 4 Test Summary

Test Item	Section in CFR 47	Result
Conducted Emission	Part 15.107	Pass
Radiated Emission	Part 15.109	Pass
<b>Remark:</b> 1. Pass: The EUT complies with the essential requirements in the standard. 2. N/A: The EUT not applicable of the test item.		
Test Method:	ANSI C63.4:2014	

## 5 General Information

### 5.1 Client Information

Applicant:	Shenzhen Aratek Biometrics Technology Co., Ltd.
Address:	2F, T2-A Building, ShenZhen Software Park, South Area, Hi-Tech Park, Shenzhen, Guangdong, China
Manufacturer/ Factory :	Aratek Biometrics Technology Co., Ltd.
Address:	2F, T2-A Building, ShenZhen Software Park, South Area, Hi-Tech Park, Shenzhen, Guangdong, China

### 5.2 General Description of E.U.T.

Product Name:	BA8200-T, BA8200																						
Model No.:	BA8200-T, BA8200																						
AC adapter:	Model: 2K36WG-1200300W2 Input: AC100-240V, 50/60Hz, 0.8A Output: DC 12.0V, 3A																						
Remark:	<p>The No.: BA8200-T and BA8200 were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference that BA8200 only has facial recognition and RFID. However, BA8200-T contains facial recognition, fingerprint module, RFID and temperature module</p> <table border="1"> <thead> <tr> <th>Item<sup>Ⓢ</sup></th> <th>Model Number<sup>Ⓢ</sup></th> <th>Camera<sup>Ⓢ</sup></th> <th>Fingerprint<sup>Ⓢ</sup></th> <th>RFID<sup>Ⓢ</sup></th> <th>Temperature module<sup>Ⓢ</sup></th> </tr> </thead> <tbody> <tr> <td>1<sup>Ⓢ</sup></td> <td>BA8200<sup>Ⓢ</sup></td> <td>1080P Dual HDR Camera with fill light, ↓ 105dB wide dynamic<sup>Ⓢ</sup></td> <td>None<sup>Ⓢ</sup></td> <td>ISO14443 A/B, MIFARE<sup>Ⓢ</sup></td> <td>None<sup>Ⓢ</sup></td> </tr> <tr> <td>2<sup>Ⓢ</sup></td> <td>BA8200-T<sup>Ⓢ</sup></td> <td>1080P Dual HDR Camera with fill light, ↓ 105dB wide dynamic<sup>Ⓢ</sup></td> <td>Optical Press<sup>Ⓢ</sup></td> <td>ISO14443 A/B, MIFARE<sup>Ⓢ</sup></td> <td>Infrared Temp Module<sup>Ⓢ</sup></td> </tr> </tbody> </table> <p>We pre-scanned the BA8200-T and BA8200, and found that the BA8200-T is in worse condition, so the report only reflects the worse mode data</p>					Item <sup>Ⓢ</sup>	Model Number <sup>Ⓢ</sup>	Camera <sup>Ⓢ</sup>	Fingerprint <sup>Ⓢ</sup>	RFID <sup>Ⓢ</sup>	Temperature module <sup>Ⓢ</sup>	1 <sup>Ⓢ</sup>	BA8200 <sup>Ⓢ</sup>	1080P Dual HDR Camera with fill light, ↓ 105dB wide dynamic <sup>Ⓢ</sup>	None <sup>Ⓢ</sup>	ISO14443 A/B, MIFARE <sup>Ⓢ</sup>	None <sup>Ⓢ</sup>	2 <sup>Ⓢ</sup>	BA8200-T <sup>Ⓢ</sup>	1080P Dual HDR Camera with fill light, ↓ 105dB wide dynamic <sup>Ⓢ</sup>	Optical Press <sup>Ⓢ</sup>	ISO14443 A/B, MIFARE <sup>Ⓢ</sup>	Infrared Temp Module <sup>Ⓢ</sup>
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Test Sample Condition:	The test samples were provided in good working order with no visible defects.																						

### 5.3 Test Mode

Operating mode	Detail description
Scanning mode	Keep the EUT in Camera Open and Scanning mode (Worst case)
Lan mode	Keep the EUT in Lan link mode

The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

### 5.4 Measurement Uncertainty

Parameters	Expanded Uncertainty
Conducted Emission (9kHz ~ 30MHz)	±1.60 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±3.12 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.32 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.16 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±3.20 dB (k=2)

## 5.5 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
LENOVO	Laptop	SL510	2847A65	DoC

## 5.6 Related Submittal(s) / Grant (s)

This is an original grant, no related submittals and grants.

## 5.7 Description of Cable Used

Cable Type	Description	Length	From	To
N/A	N/A	N/A	N/A	N/A

## 5.8 Additions to, deviations, or exclusions from the method

No

## 5.9 Laboratory Facility

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

- **FCC - Designation No.: CN1211**  
Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.
- **ISED – CAB identifier.: CN0021**  
The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.
- **A2LA - Registration No.: 4346.01**  
This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

## 5.10 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.  
Address: No.110~116, Building B, Jinyuan Business Building, Xixiang Road,  
Bao'an District, Shenzhen, Guangdong, China  
Tel: +86-755-23118282, Fax: +86-755-23116366  
Email: info@ccis-cb.com, Website: <http://www.ccis-cb.com>

## 5.11 Test Instruments list

Radiated Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	SAEMC	9m*6m*6m	966	07-22-2017	07-21-2020
Loop Antenna	SCHWARZBECK	FMZB1519B	00044	03-07-2020	03-06-2021
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-07-2020	03-06-2021
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-07-2020	03-06-2021
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-22-2017	06-21-2020
				06-21-2020	06-20-2023
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-18-2019	11-17-2020
EMI Test Software	AUDIX	E3	Version: 6.110919b		
Pre-amplifier	HP	8447D	2944A09358	03-07-2020	03-06-2021
Pre-amplifier	CD	PAP-1G18	11804	03-07-2020	03-06-2021
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-05-2020	03-04-2021
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-18-2019	11-17-2020
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-05-2020	03-04-2021
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-07-2020	03-06-2021
Cable	MICRO-COAX	MFR64639	K10742-5	03-07-2020	03-06-2021
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-07-2020	03-06-2021

Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	03-05-2020	03-04-2021
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-05-2020	03-04-2021
LISN	CHASE	MN2050D	1447	03-05-2020	03-04-2021
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2017	07-20-2020
Cable	HP	10503A	N/A	03-05-2020	03-04-2021
EMI Test Software	AUDIX	E3	Version: 6.110919b		

## 6 Test results and Measurement Data

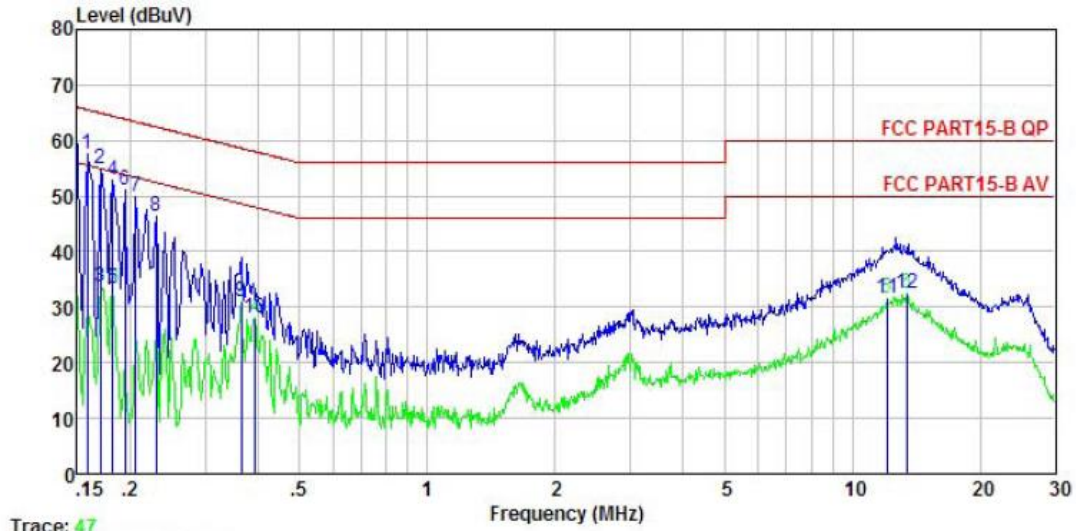
### 6.1 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.107		
Test Frequency Range:	150kHz to 30MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9kHz, VBW=30kHz		
Limit:	Frequency range (MHz)	Limit (dB $\mu$ V)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	0.5-30	60	50
* Decreases with the logarithm of the frequency.			
Test setup:	<p>Remark:  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"> <li>1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment.</li> <li>2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs).</li> <li>3. 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 C63.4(latest version) on conducted measurement.</li> </ol>		
Test Instruments:	Refer to section 5.11 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Pass		



Measurement data:

Product name:	BA820-T	Product model:	BA820-T
Test by:	Yaro	Test mode:	Scanning mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5°C Humi: 55%

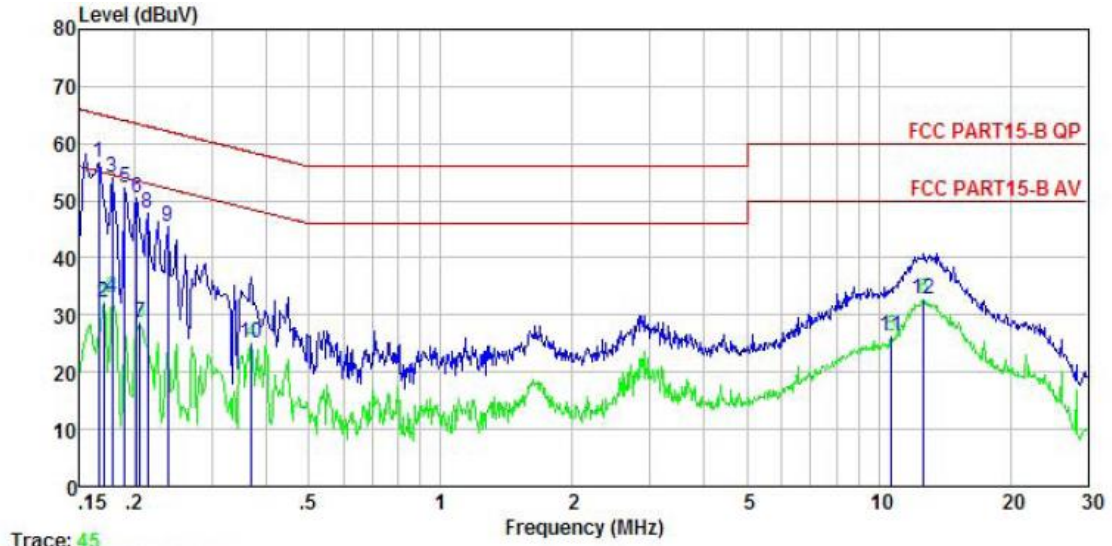


	Read Freq	Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.158	47.53	-0.57	10.77	57.66	65.56	-7.90	QP
2	0.170	44.81	-0.58	10.77	54.90	64.94	-10.04	QP
3	0.170	23.47	-0.58	10.77	33.56	54.94	-21.38	Average
4	0.182	42.86	-0.58	10.77	52.93	64.42	-11.49	QP
5	0.182	23.30	-0.58	10.77	33.37	54.42	-21.05	Average
6	0.194	41.08	-0.59	10.76	51.10	63.84	-12.74	QP
7	0.206	39.76	-0.59	10.76	49.76	63.36	-13.60	QP
8	0.230	36.47	-0.58	10.75	46.44	62.44	-16.00	QP
9	0.365	20.41	-0.50	10.73	30.85	48.61	-17.76	Average
10	0.393	17.42	-0.48	10.72	28.04	47.99	-19.95	Average
11	12.060	18.77	-0.71	10.92	31.69	50.00	-18.31	Average
12	13.408	19.02	-0.70	10.91	32.38	50.00	-17.62	Average

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. Final Level = Receiver Read level + LISN Factor + Cable Loss.

<b>Product name:</b>	BA8200-T	<b>Product model:</b>	BA820-T
<b>Test by:</b>	Yaro	<b>Test mode:</b>	Scanning mode
<b>Test frequency:</b>	150 kHz ~ 30 MHz	<b>Phase:</b>	Neutral
<b>Test voltage:</b>	AC 120 V/60 Hz	<b>Environment:</b>	Temp: 22.5°C Huni: 55%



Trace: 45

	Read Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.166	46.45	-0.68	10.77	56.55	65.16	-8.61	QP
2	0.170	22.04	-0.68	10.77	32.14	54.94	-22.80	Average
3	0.178	43.93	-0.68	10.77	54.02	64.59	-10.57	QP
4	0.178	22.85	-0.68	10.77	32.94	54.59	-21.65	Average
5	0.190	42.11	-0.67	10.76	52.20	64.02	-11.82	QP
6	0.202	40.53	-0.67	10.76	50.62	63.54	-12.92	QP
7	0.206	18.51	-0.67	10.76	28.60	53.36	-24.76	Average
8	0.214	37.87	-0.67	10.76	47.96	63.05	-15.09	QP
9	0.238	35.49	-0.67	10.75	45.57	62.17	-16.60	QP
10	0.369	15.09	-0.64	10.73	25.14	48.52	-23.38	Average
11	10.676	14.40	-0.79	10.93	26.22	50.00	-23.78	Average
12	12.649	20.32	-0.80	10.92	32.84	50.00	-17.16	Average

**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. Final Level = Receiver Read level + LISN Factor + Cable Loss.

## 6.2 Radiated Emission

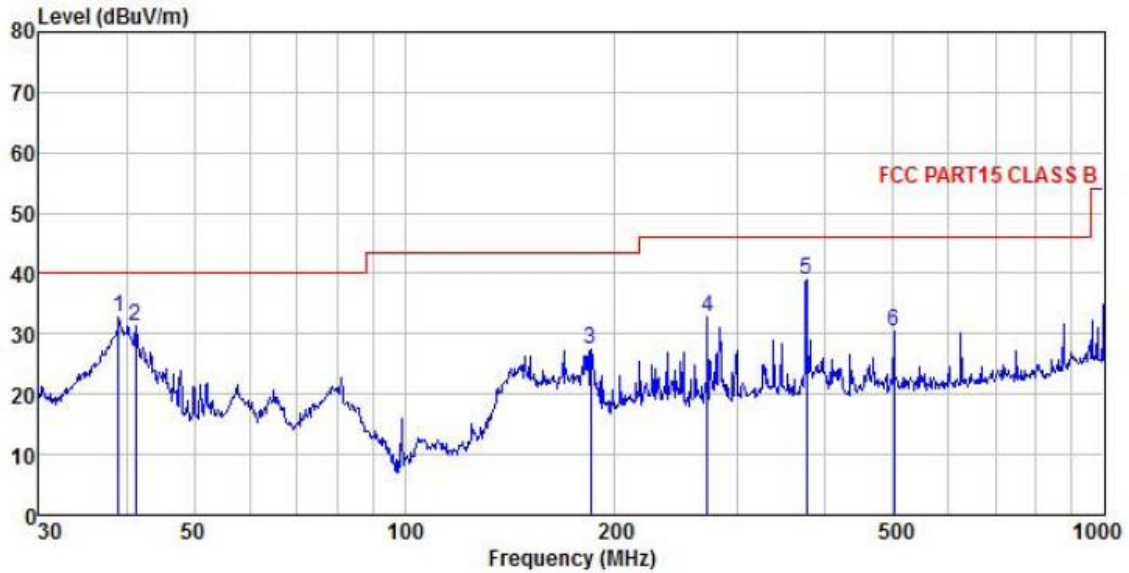
Test Requirement:	FCC Part 15 B Section 15.109				
Test Frequency Range:	30MHz to 5th harmonic of the highest frequency				
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
RMS		1MHz	3MHz	Average Value	
Limit:	Frequency	Limit (dBuV/m @3m)			Remark
	30MHz-88MHz	40.0			Quasi-peak Value
	88MHz-216MHz	43.5			Quasi-peak Value
	216MHz-960MHz	46.0			Quasi-peak Value
	960MHz-1GHz	54.0			Quasi-peak Value
Above 1GHz	54.0			Average Value	
	74.0			Peak Value	
Test setup:	Below 1GHz				
Test setup:	Above 1GHz				
Test Procedure:	<ol style="list-style-type: none"> <li>1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>3. 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.</li> </ol>				

	<p>4. 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 rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>6. 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.</p>
Test Instruments:	Refer to section 5.11 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	All of the observed value above 6GHz ware the niose floor , which were no recorded

**Measurement Data:**

**Below 1GHz:**

<b>Product Name:</b>	BA8200-T	<b>Product Model:</b>	BA8200-T
<b>Test By:</b>	Yaro	<b>Test mode:</b>	Scanning mode
<b>Test Frequency:</b>	30 MHz ~ 1 GHz	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	AC 120/60Hz	<b>Environment:</b>	Temp: 24°C Humi: 57%

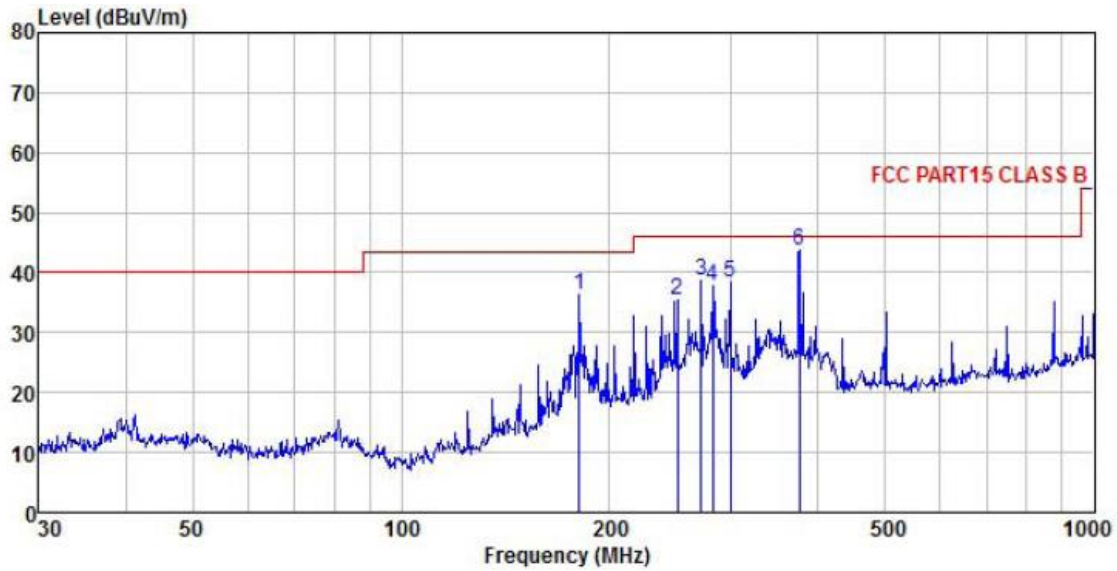


	Read Freq	Antenna Level	Cable Factor	Aux Loss	Preamp Factor	Level	Limit	Over	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	39.024	49.46	12.76	0.35	0.00	29.91	32.66	40.00	-7.34 QP
2	41.277	48.11	12.83	0.36	0.00	29.89	31.41	40.00	-8.59 QP
3	184.490	38.59	17.16	0.69	0.00	28.94	27.50	43.50	-16.00 QP
4	271.325	41.89	18.59	0.82	0.00	28.50	32.80	46.00	-13.20 QP
5	375.939	47.81	18.96	0.96	0.00	28.68	39.05	46.00	-6.95 QP
6	501.179	39.00	19.41	1.10	0.00	28.96	30.55	46.00	-15.45 QP

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and show in test report.
3. The Aux Factor is a notch filter switch box loss, this item is not used.

<b>Product Name:</b>	BA8200-T	<b>Product Model:</b>	BA8200-T
<b>Test By:</b>	Yaro	<b>Test mode:</b>	Scanning mode
<b>Test Frequency:</b>	30 MHz ~ 1 GHz	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	AC 120/60Hz	<b>Environment:</b>	Temp: 24°C Huni: 57%



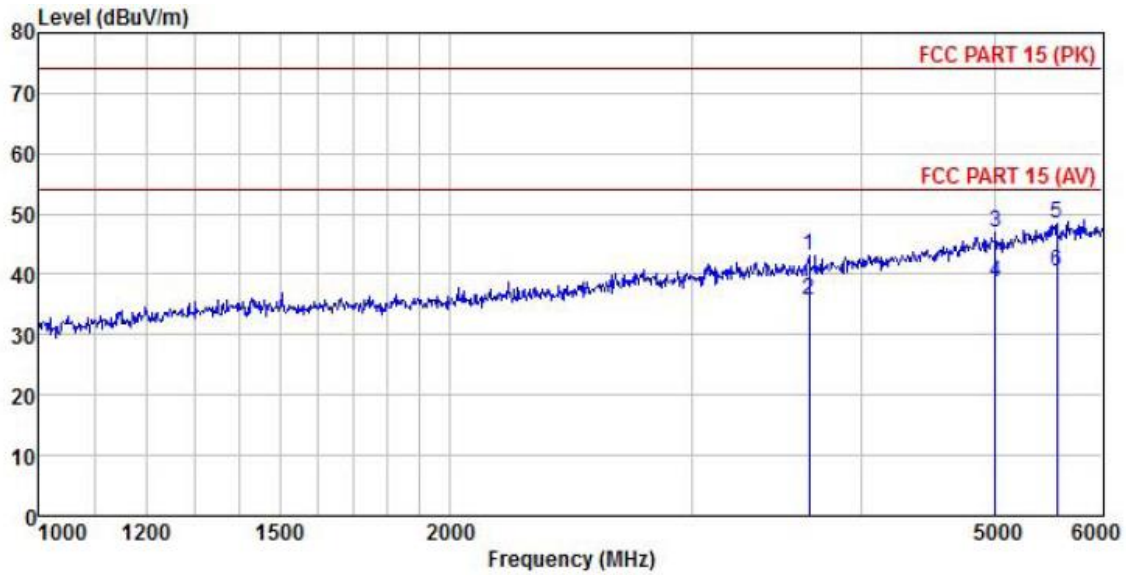
	Freq	ReadAntenna	Cable	Aux	Preamp	Level	Limit	Over	Remark
	MHz	Level	Loss	Factor	Factor	dBuV/m	Line	Limit	
		dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	180.649	47.57	16.94	0.68	0.00	28.97	36.22	43.50	-7.28 QP
2	250.301	44.80	18.50	0.78	0.00	28.54	35.54	46.00	-10.46 QP
3	271.325	47.68	18.59	0.82	0.00	28.50	38.59	46.00	-7.41 QP
4	281.995	46.81	18.63	0.84	0.00	28.48	37.80	46.00	-8.20 QP
5	298.268	47.29	18.69	0.86	0.00	28.45	38.39	46.00	-7.61 QP
6	375.939	52.60	18.96	0.96	0.00	28.68	43.84	46.00	-2.16 QP

**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.
3. The Aux Factor is a notch filter switch box loss, this item is not used.

**Above 1GHz:**

<b>Product Name:</b>	BA8200	<b>Product Model:</b>	BA8200
<b>Test By:</b>	Yaro	<b>Test mode:</b>	Scanning mode
<b>Test Frequency:</b>	1 GHz ~ 6 GHz	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	AC 120/60Hz	<b>Environment:</b>	Temp: 24°C Humi: 57%

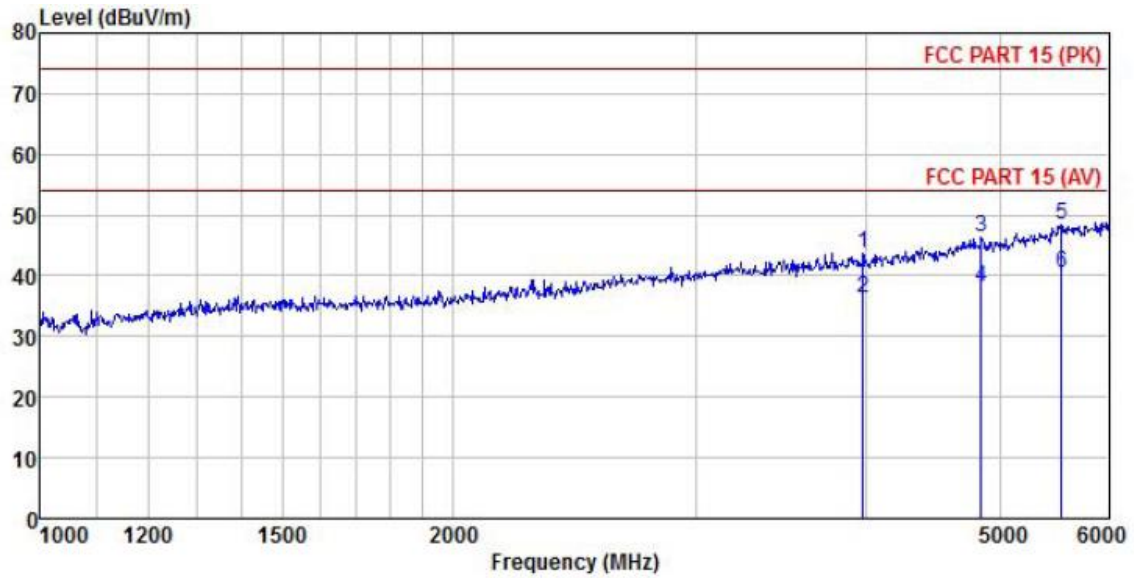


	Read	Antenna	Cable	Aux	Preamp	Level	Limit	Over	
Freq	Level	Factor	Loss	Factor	Factor	Level	Line	Limit	Remark
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB/m	dB	dB	dB	dBuV/m	dBuV/m	dB	
1	3659.161	48.27	28.90	5.46	2.20	41.62	43.21	74.00	-30.79 Peak
2	3659.161	40.66	28.90	5.46	2.20	41.62	35.60	54.00	-18.40 Average
3	5006.774	48.53	31.20	6.56	2.50	41.88	46.91	74.00	-27.09 Peak
4	5006.774	40.41	31.20	6.56	2.50	41.88	38.79	54.00	-15.21 Average
5	5555.085	48.18	32.32	7.02	2.66	41.81	48.37	74.00	-25.63 Peak
6	5555.085	40.37	32.32	7.02	2.66	41.81	40.56	54.00	-13.44 Average

**Remark:**

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

<b>Product Name:</b>	BA8200-T	<b>Product Model:</b>	BA8200-T
<b>Test By:</b>	Yaro	<b>Test mode:</b>	Scanning mode
<b>Test Frequency:</b>	1 GHz ~ 6 GHz	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	AC 120/60Hz	<b>Environment:</b>	Temp: 24°C Humi: 57%



	Freq	ReadAntenna	Cable	Aux	Preamp	Level	Limit	Over	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	3973.530	48.36	29.26	5.74	2.20	41.81	43.75	74.00	-30.25 Peak
2	3973.530	40.98	29.26	5.74	2.20	41.81	36.37	54.00	-17.63 Average
3	4847.873	48.41	30.87	6.43	2.46	41.83	46.34	74.00	-27.66 Peak
4	4847.873	40.16	30.87	6.43	2.46	41.83	38.09	54.00	-15.91 Average
5	5545.141	48.23	32.32	7.02	2.66	41.81	48.42	74.00	-25.58 Peak
6	5545.141	40.23	32.32	7.02	2.66	41.81	40.42	54.00	-13.58 Average

**Remark:**

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