

# **TEST REPORT**

Report No.: BCTC2409214268E

Applicant: ZAGG Inc.

Product Name: ZAGG-KB-MSGR Folio 2-Apple-iPad 11

Air/Pro-FG-Black

Test Model: ZKBA11MFN53

Tested Date: 2024-09-13 to 2024-09-20

Issued Date: 2024-10-08

Shenzhen BCTC Testing Co., Ltd.



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# FCC ID: QTG-ZKPI3N

**Product Name:** ZAGG-KB-MSGR Folio 2-Apple-iPad 11 Air/Pro-FG-Black

Trademark: ZAGG

ZKBA11MFN53 Model/Type Reference:

Prepared For: ZAGG Inc.

Address: 910 West Legacy Center Way, Midvale, Utah 84047,USA

Manufacturer: ZAGG Inc.

Address: 910 West Legacy Center Way, Midvale, Utah 84047, USA

Prepared By: Shenzhen BCTC Testing Co., Ltd.

1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Address:

Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

2024-09-13 Sample Received Date:

Sample tested Date: 2024-09-13 to 2024-09-20

Issue Date: 2024-10-08

Report No.: BCTC2409214268E

FCC Part15.247 **Test Standards** ANSI C63.10-2013

**Test Results PASS** 

Remark: This is Bluetooth BLE radio test report.

Tested by:

Brave Zeng/ Project Handler

Approved by:

Zero Zhou/Reviewer

The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen BCTC Testing Co., Ltd, this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client.



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(Note: N/A Means Not Applicable)

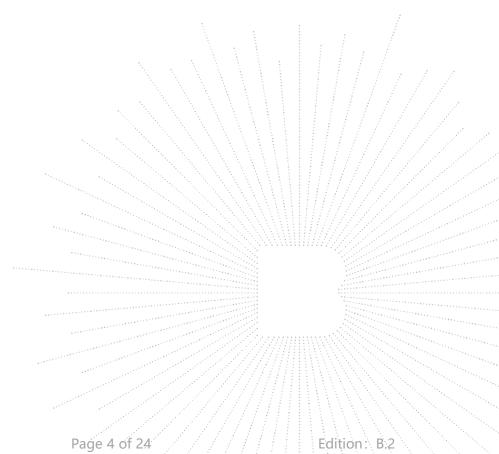
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#### 1. Version

Report No.	Issue Date	Description	Approved
BCTC2409214268E	2024-10-08	Original	Valid



No.: BCTC/RF-EMC-005



# 2. Test Summary

The Product has been tested according to the following specifications:

No.	Test Parameter	Clause No	Results
1	Conducted emissions	15.207	PASS
2	Radiated Emissions	15.209	PASS

Remark: Based on the following changes in the product, the RF chip remains unchanged. So the report is only updated Conducted emissions and Radiated Emissions for the original report  $(BCTC2209669216E)_{\circ}$ 

Changes: 1. The new product has changed the appearance of the case, while the appearance of the material has changed.

2. Change model and product name.

Original:





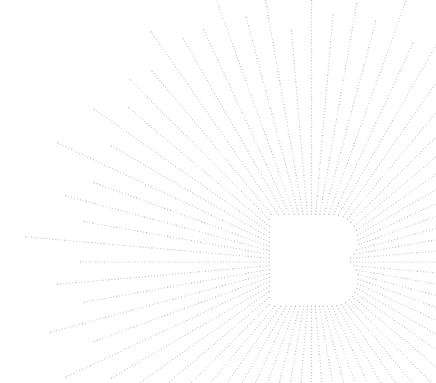
2. Product Name, Model/Type reference, Test Instrument Used, the test result of Conducted Emission and Radiation Emission, EUT Photographs, EUT Test Setup Photographs.



# 3. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

No.	Item	Uncertainty
1	humidity uncertainty	U=5.3%
2	Temperature uncertainty	U=0.59℃
3	Conducted Emission (150kHz-30MHz)	U=3.2dB
4	Radiated disturbance(30MHz-1000MHz)	U=4.8dB
5	Radiated disturbance(1GHz-6GHz)	U=4.9dB
6	Radiated disturbance(1GHz-18GHz)	U=5.0dB



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# 4. Product Information And Test Setup

### 4.1 Product Information

Model/Type Reference: ZKBA11MFN53

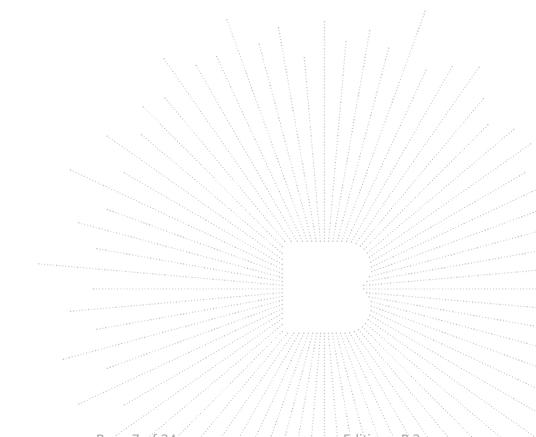
Model differences: N/A
Bluetooth Version: BT 5.0
Hardware Version: V1.0
Software Version: V1.0

No.: BCTC/RF-EMC-005

Operation Frequency: Bluetooth: 2402-2480MHz

Type of Modulation: Bluetooth: GFSK

Antenna installation: Bluetooth: PCB antenna
Antenna Gain: Bluetooth: 1.87dBi
Ratings: DC 3.7V from Battery
DC 5V from Adapter





# 4.2 Test Setup Configuration

See test photographs attached in *EUT TEST SETUP PHOTOGRAPHS* for the actual connections between Product and support equipment.

# 4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	ZAGG-KB-MSG R Folio 2-Apple-iPad 11 Air/Pro-FG-Blac k	ZAGG	ZKBA11MFN53	N/A	EUT
E-2	Adapter	UGREEN	CD122	N/A	Auxiliary
E-3	PC	Lenovo	TP00117D	N/A	Auxiliary

ltem	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	0.4M	DC cable unshielded

#### Notes:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

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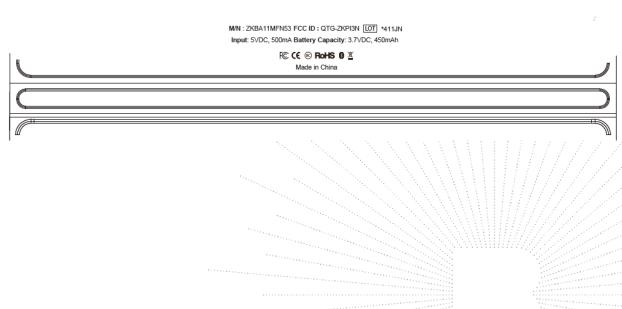
# 4.4 Channel List

	Channel List					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	
01	2402	11	2422	21	2442	
02	2404	12	2424	22	2444	
03	2406	13	2426	23	2446	
?	~	~	~	~	~	
09	2418	19	2438	39	2478	
10	2420	20	2440	40	2480	

# 4.5 Test Mode

Test mode	Test mode	Low channel	Middle channel	High channel
1.	Charging+BT Link (conducted emission and Radiated emission)			
2.	BT Link(Radiated emission)			

# 4.6 Copy of marking plate



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# 5. Test Facility And Test Instrument Used

# 5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

### 5.2 Test Instrument Used

Conducted Emissions Test					
Equipment Manufacturer Model# Serial# Last Cal. Next Cal.					
Receiver	R&S	ESR3	102075	May 16, 2024	May 15, 2025
LISN	R&S	ENV216	101375	May 16, 2024	May 15, 2025
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\
Pulse limiter	Schwarzbeck	VTSD9561-F	01323	May 16, 2024	May 15, 2025

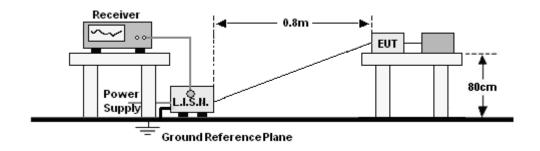
Radiated Emissions Test (966 Chamber01)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	May 16, 2024	May 15, 2025
Receiver	R&S	ESR3	102075	May 16, 2024	May 15, 2025
Receiver	R&S	ESRP	101154	May 16, 2024	May 15, 2025
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 16, 2024	May 15, 2025
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 21, 2024	May 20, 2025
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 21, 2024	May 20, 2025
Amplifier	SKET	LAPA_01G18 G-45dB	SK202104090 1	May 16, 2024	May 15, 2025
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 21, 2024	May 20, 2025
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35- HG	2034381	May 16, 2024	May 15, 2025
Horn Antenna(18G Hz-40GHz)	Schwarzbeck	BBHA9170	00822	May 21, 2024	May 20, 2025
Spectrum Analyzer9kHz- 40GHz	R&S	FSP40	100363	May 16, 2024	May 15, 2025
Software	Frad	EZ-EMC	FA-03A2 RE	1	

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### 6. Conducted emissions

## 6.1 Block Diagram Of Test Setup



#### 6.2 Limit

EDEOLIENCY (MU-)	Limit (	dBuV)
FREQUENCY (MHz)	Quas-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

#### Notes:

- 1. \*Decreasing linearly with logarithm of frequency.
- 2. The lower limit shall apply at the transition frequencies.

## 6.3 Test procedure

Receiver Parameters		Setting
Attenuation		10 dB
Start Frequency	*,	0.15 MHz
Stop Frequency		30 MHz
IF Bandwidth		9 kHz
·		

a. The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).

### 6.4 EUT operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

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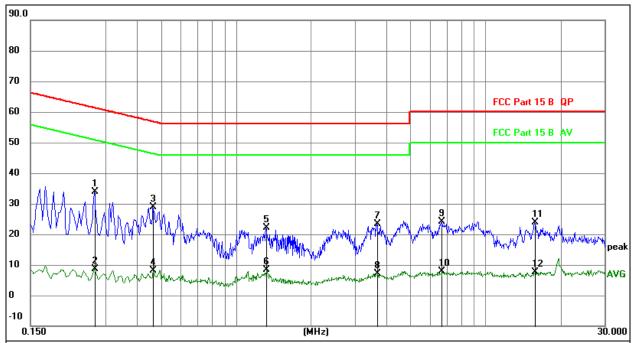
b. The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.

c. For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.



### 6.5 Test Result

Temperature:	<b>26</b> ℃	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC120V/60Hz
Test Mode:	Mode 1	Polarization :	L



### Remark:

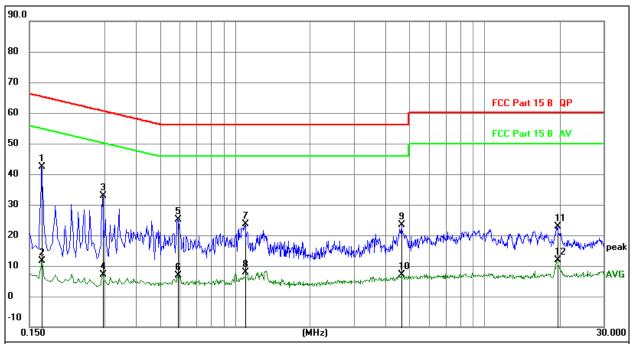
- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.
- 3. Measurement = Reading Level + Correct Factor
- 4. Over = Measurement Limit

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz		dB	dBuV	dBu∀	dB	Detector
1 *	0.2714	13.84	20.07	33.91	61.07	-27.16	QP
2	0.2714	-11.38	20.07	8.69	51.07	-42.38	AVG
3	0.4650	8.77	20.08	28.85	56.60	-27.75	QP
4	0.4650	-11.90	20.08	8.18	46.60	-38.42	AVG
5	1.3200	1.98	20.09	22.07	56.00	-33.93	QP
6	1.3200	-11.78	20.09	8.31	46.00	-37.69	AVG
7	3.6645	3.28	20.13	23.41	56.00	-32.59	QP
8	3.6645	-12.98	20.13	7.15	46.00	-38.85	AVG
9	6.6930	3.95	20.16	24.11	60.00	-35.89	QP
10	6.6930	-12.28	20.16	7.88	50.00	-42.12	AVG
11	15.7290	3.47	20.31	23.78	60.00	-36.22	QP
12	15.7290	-12.58	20.31	7.73	50.00	-42.27	AVG



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Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC120V/60Hz
Test Mode:	Mode 1	Polarization :	N



### Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.
- 3. Measurement = Reading Level + Correct Factor
- 4. Over = Measurement Limit

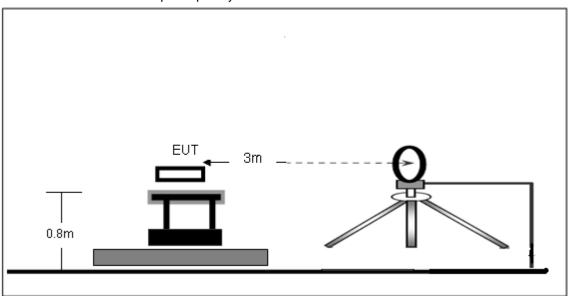
	- Mcasa	ICITICITE LIII						
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz		dB	dBu∨	dBuV	dB	Detector
1	*	0.1680	22.20	20.07	42.27	65.06	-22.79	QP
2		0.1680	-8.54	20.07	11.53	55.06	-43.53	AVG
3		0.2940	12.81	20.07	32.88	60.41	-27.53	QP
4		0.2940	-13.05	20.07	7.02	50.41	-43.39	AVG
5		0.5910	5.17	20.08	25.25	56.00	-30.75	QP
6		0.5910	-13.17	20.08	6.91	46.00	-39.09	AVG
7		1.0950	3.44	20.09	23.53	56.00	-32.47	QP
8		1.0950	-12.21	20.09	7.88	46.00	-38.12	AVG
9		4.6635	3.25	20.14	23.39	56.00	-32.61	QP
10		4.6635	-13.10	20.14	7.04	46.00	-38.96	AVG
11		19.7115	2.45	20.33	22.78	60.00	-37.22	QP
12		19.7115	-8.53	20.33	11.80	50.00	-38.20	AVG



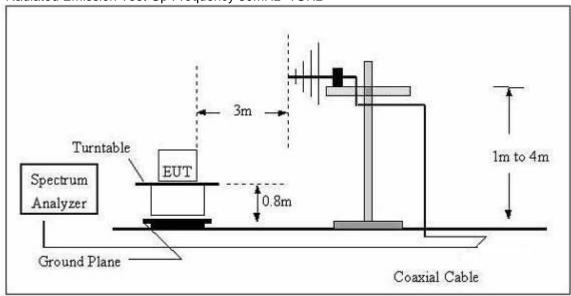
### 7. Radiated emissions

# 7.1 Block Diagram Of Test Setup

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



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

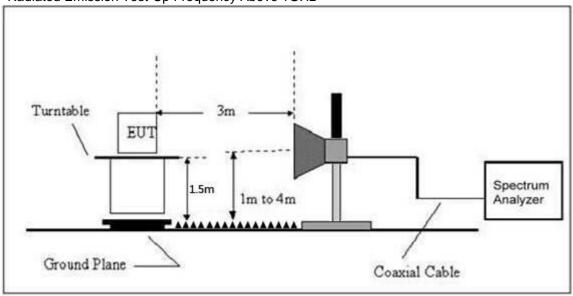


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(C) Radiated Emission Test-Up Frequency Above 1GHz



### 7.2 Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequency	Field Strength	Distance	Field Strength Limit at 3m Distance			
(MHz)	uV/m	(m)	uV/m dBuV/m			
0.009 ~ 0.490	2400/F(kHz)	300	10000 * 2400/F(kHz)	20log <sup>(2400/F(kHz))</sup> + 80		
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	20log <sup>(24000/F(kHz))</sup> + 40		
1.705 ~ 30	30	30	100 * 30	20log <sup>(30)</sup> + 40		
30 ~ 88	100	3	100	20log <sup>(100)</sup>		
88 ~ 216	150	3	150	20log <sup>(150)</sup>		
216 ~ 960	200	3	200	20log <sup>(200)</sup>		
Above 960	500	3 ·····	500	20log <sup>(500)</sup>		

### LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)			
FREQUENCT (IVIIIZ)	PEAK	AVERAGE		
Above 1000	74	54		

#### Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

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#### Frequency Range Of Radiated Measurement

- (a) For an intentional radiator the spectrum shall be investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to at least the frequency shown in this paragraph:
- (1) If the intentional radiator operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
- (2) If the intentional radiator operates at or above 10 GHz and below 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.
- (3) If the intentional radiator operates at or above 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 200 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.
- (4) If the intentional radiator operates at or above 95 GHz: To the third harmonic of the highest fundamental frequency or to 750 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.
- (5) If the intentional radiator contains a digital device, regardless of whether this digital device controls the functions of the intentional radiator or the digital device is used for additional control or function purposes other than to enable the operation of the intentional radiator, the frequency range shall be investigated up to the range specified in paragraphs (a) (1)through (4) of this section or the range applicable to the digital device, as shown in paragraph (b)(1) of this section, whichever is the higher frequency range of investigation.

### 7.3 Test procedure

Setting
Auto
RBW 200Hz for QP
RBW 9kHz for QP
RBW 120kHz for QP

Spectrum Parameter	Setting
1-25GHz	RBW 1 MHz /VBW 1 MHz for Peak,
	RBW 1 MHz / VBW 10Hz for Average

Below 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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.

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- d. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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.

Above 1GHz test procedure as below:

- a. 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.
- b.The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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.
- d.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.
- e.The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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.
- g. Test the EUT in the lowest channel, the middlest channel, the Highest channel.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

### 7.4 EUT operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

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## 7.5 Test Result

#### Below 30MHz

Temperature:	<b>26</b> ℃	Relative Humidity:	54%
Pressure:	101 kPa	Test Voltage:	DC 3.7V
Test Mode:	Mode 1	Polarization :	

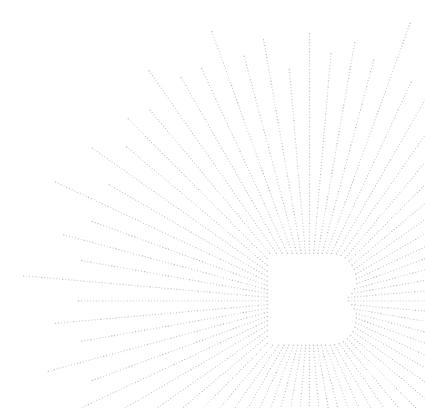
Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				PASS
				PASS

#### Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.



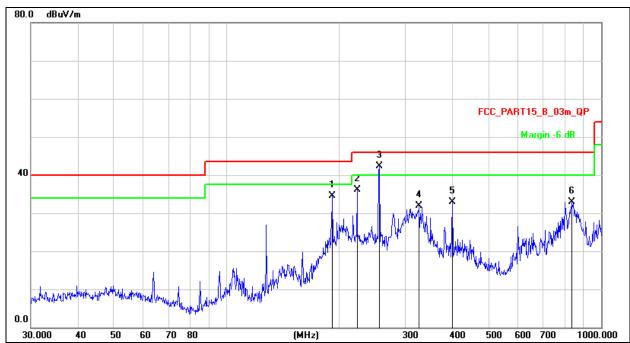
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Between 30MHz - 1GHz

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Horizontal
Test Mode:	Mode 1	Test Voltage :	AC120V/60Hz



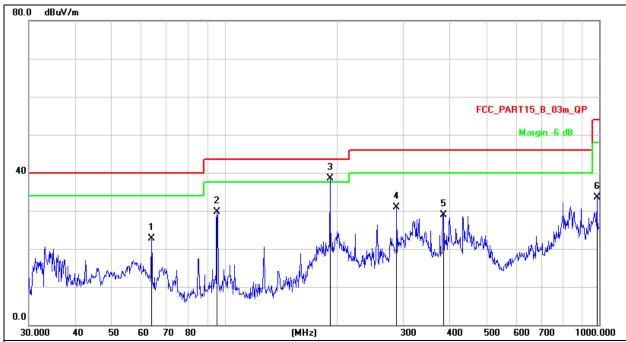
#### Remark:

- 1. Factor = Antenna Factor + Cable Loss Pre-amplifier.
- 2. Measurement = Reading Level + Correct Factor
- 3. Over = Measurement Limit

Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
19	91.7450	50.89	-16.33	34.56	43.50	-8.94	QP
22	22.9502	51.26	-15.06	36.20	46.00	-9.80	QP
* 25	55.6231	56.54	-14.17	42.37	46.00	-3.63	QP
32	26.7395	44.25	-12.30	31.95	46.00	-14.05	QP
40	00.4319	43.74	-10.83	32.91	46.00	-13.09	QP
83	36.2443	36.99	-4.10	32.89	46.00	-13.11	QP
	19 22 * 25 32 40	MHz 191.7450 222.9502	Mk. Freq. Level  MHz dBuV  191.7450 50.89  222.9502 51.26  * 255.6231 56.54  326.7395 44.25  400.4319 43.74	Mk. Freq. Level Factor  MHz dBuV dB  191.7450 50.89 -16.33  222.9502 51.26 -15.06  * 255.6231 56.54 -14.17  326.7395 44.25 -12.30  400.4319 43.74 -10.83	Mk.         Freq.         Level         Factor         ment           MHz         dBuV         dB         dBuV/m           191.7450         50.89         -16.33         34.56           222.9502         51.26         -15.06         36.20           * 255.6231         56.54         -14.17         42.37           326.7395         44.25         -12.30         31.95           400.4319         43.74         -10.83         32.91	Mk.         Freq.         Level         Factor         ment         Limit           MHz         dBuV         dB         dBuV/m         dB/m           191.7450         50.89         -16.33         34.56         43.50           222.9502         51.26         -15.06         36.20         46.00           * 255.6231         56.54         -14.17         42.37         46.00           326.7395         44.25         -12.30         31.95         46.00           400.4319         43.74         -10.83         32.91         46.00	Mk.         Freq.         Level         Factor         ment         Limit         Over           MHz         dBuV         dB         dBuV/m         dB/m         dB           191.7450         50.89         -16.33         34.56         43.50         -8.94           222.9502         51.26         -15.06         36.20         46.00         -9.80           * 255.6231         56.54         -14.17         42.37         46.00         -3.63           326.7395         44.25         -12.30         31.95         46.00         -14.05           400.4319         43.74         -10.83         32.91         46.00         -13.09



Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Vertical
Test Mode:	Mode 1	Test Voltage:	AC120V/60Hz



### Remark:

- 1. Factor = Antenna Factor + Cable Loss Pre-amplifier.
- 2. Measurement = Reading Level + Correct Factor
- 3. Over = Measurement Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		63.7588	38.92	-16.28	22.64	40.00	-17.36	QP
2		95.4270	46.32	-16.60	29.72	43.50	-13.78	QP
3	* *	191.0738	54.97	-16.38	38.59	43.50	-4.91	QP
4	2	287.9904	44.34	-13.49	30.85	46.00	-15.15	QP
5	(	383.9318	40.00	-11.05	28.95	46.00	-17.05	QP
6	(	986.0717	36.05	-2.52	33.53	54.00	-20.47	QP



# 8. EUT Photographs

EUT Photo 1



### EUT Photo 2



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# 9. EUT TEST SETUP Photographs

### Conducted emissions



### Radiated emission

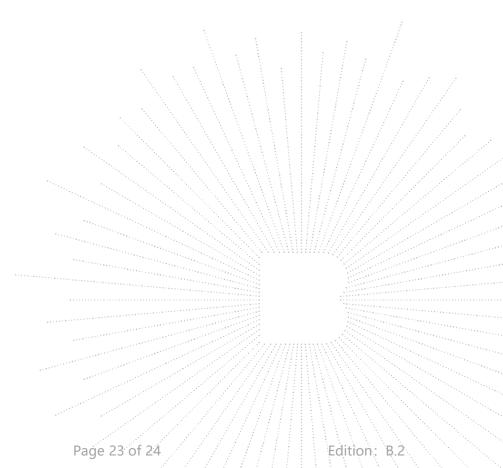


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#### STATEMENT

- 1. The equipment lists are traceable to the national reference standards.
- 2. The test report can not be partially copied unless prior written approval is issued from our lab.
- 3. The test report is invalid without the "special seal for inspection and testing".
- 4. The test report is invalid without the signature of the approver.
- 5. The test process and test result is only related to the Unit Under Test.
- 6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.
- 7. The quality system of our laboratory is in accordance with ISO/IEC17025.
- 8. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

#### Address:

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Complaint/Advice E-mail: advice@bctc-lab.com.cn

\*\*\*\* END \*\*\*\*

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