







Report Number.....: ZHT-240102010E

Test Result PASS

Testing Laboratory.....: Guangdong Zhonghan Testing Technology Co., Ltd.

Address : Room 104, Building 1, Yibaolai Industrial Park, Qiaotou Community,

Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Applicant's name: FUZHOU KINGWAY INFORMATION TECHNOLOGY CO., LTD

Address: 2nd Floor, Building 69, Area A, Pushang Industrial Park, Jinshan

Industrial Concentration Area, No.1, Hongjiang Road, Jianxin Town,

Cangshan District, Fuzhou, Fujian, China

Manufacturer's name: FUZHOU KINGWAY INFORMATION TECHNOLOGY CO., LTD

Address: 2nd Floor, Building 69, Area A, Pushang Industrial Park, Jinshan

Industrial Concentration Area, No.1, Hongjiang Road, Jianxin Town,

Cangshan District, Fuzhou, Fujian, China

Test specification:

Standard...... FCC Part 15 Subpart C Section 15.249

Test procedure.....: ANSI C63.10:2013

This device described above has been tested by ZHT, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Product name.....: WIRELESS MICROPHONE

Trademark N/A

Model/Type reference.....: BKP-21, BKP-11, BKP-21A, BKP-11A, FDUCE-W60, FDUCE-W30,

MWM-21, MWM-11, WM-21, WM-11

Model difference : Only model name is different.

Ratings....: DC3V by battery







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Testing procedure and testing location:		-
Testing Laboratory	: Shenzhen ZHT Technol	ogy Co., Ltd.
Address	1/F, No. 101, Building B, N Industrial Avenue, Fuhai St Shenzhen, China	
	1	Leon Li
Tested by (name + signature)	Leon Li	
		Bant. Wu
Reviewer (name + signature)	Baret Wu	
	1	1
		Poila
Approved (name + signature)	Levi Lee	



























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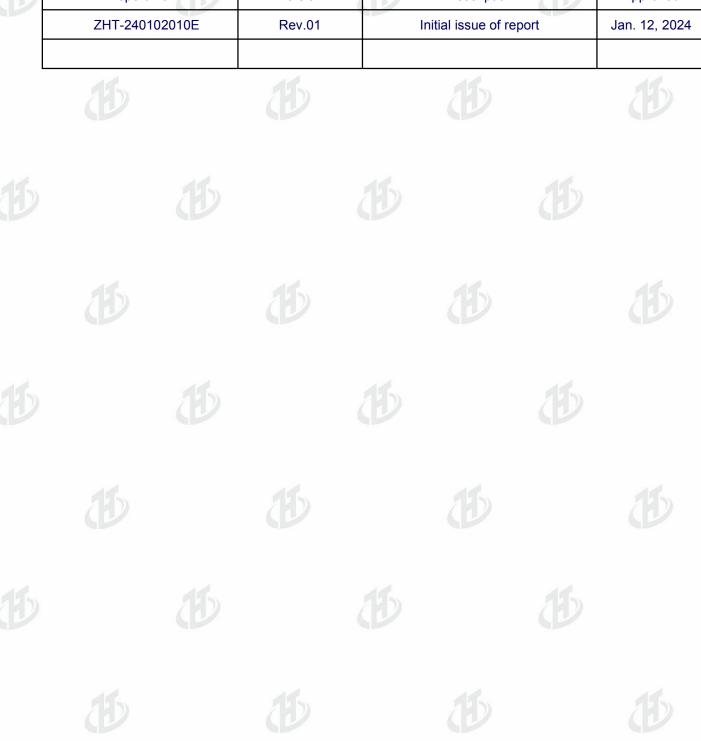




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1.VERSION

Report No.	Version	Description	Approved
ZHT-240102010E	Rev.01	Initial issue of report	Jan. 12, 2024















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Test procedures according to the technical standards:

FCC Part 15 Subpart C Section 15.249					
Standard Section	Test Item	Judgment	Remark		
FCC part 15.203	Antenna requirement	PASS			
FCC part 15.207	AC Power Line Conducted Emission	N/A			
FCC part 15.249	-20dB Channel Bandwidth	PASS			
FCC part 15.249	Band Edge	PASS			
FCC part 15.205/15.209	Spurious Emission	PASS			

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report (The EUT is powered by DC1.5V*2AA Battery).







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2.1 TEST FACILITY

Guangdong Zhonghan Testing Technology Co., Ltd.

Add.: Room 104, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District

Shenzhen, Guangdong, China

FCC Registration Number:255941 Designation Number: CN0325 IC Registered No.: 29832 CAB identifier: CN0143

2.2MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ± U , where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %。

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power conducted	±0.16dB
3	Spurious emissions conducted	±0.21dB
4	All emissions radiated(9k-30MHz)	±4.68dB
5	All emissions radiated(<1G)	±4.68dB
6	All emissions radiated(>1G)	±4.89dB
7	Temperature	±0.5°C
8	Humidity	±2%
9	Occupied Bandwidth	±4.96%





























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3.1 GENERAL DESCRIPTION OF EUT



			2.07		
Channel	Frequency MHz	Channel	Frequency MHz	Channel	Frequency MHz
1	902.8	11	910.8	21	919.6
2	903.6	12	911.6	22	920.4
3	904.4	13	912.4	23	921.2
4	905.2	14	913.2	24	922.0
5	906	15	914	25	922.8
6	906.8	16	915.6	26	923.6
7	907.6	17	916.4	27	924.4
8	908.4	18	917.2	28	925.2
9	909.2	19	918.0	29	926.0
10	910	20	918.8	30	926.8

The Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel	902.8MHz
The middle channel	915.8MHz
The Highest channel	926.8MHz





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3.2 DESCRIPTION OF TEST MODES

Transmitting mode	Keep the EUT in continuously transmitting mode
-------------------	--

Remark: The EUT use new battery during the test. 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.

3.3 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration

		41.		48	
Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
/	/	/	/	/	/
		44			44
1	1)	(H)			(1)

Item	Shielded Type	Ferrite Core	Length	Note
	Jal.		15)	110
	G.			

Note:

- The support equipment was authorized by Declaration of Confirmation. (1)
- (2)For detachable type I/O cable should be specified the length in cm in <code>"Length_"</code> column.

































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Radiation Test equipment

radiatio	on rest equipment		400 70		
Item	Equipment	Manufacturer	Model	Last Cal.	Next Cal.
1	Receiver	R&S	ESCI	May 12, 2023	May 11, 2024
2	Loop antenna	EMCI	LAP600	May 12, 2023	May 11, 2024
3	Amplifier	Schwarzbeck	BBV 9743 B	May 12, 2023	May 11, 2024
4	Amplifier	Schwarzbeck	BBV 9718 B	May 12, 2023	May 11, 2024
5	Bilog Antenna	Schwarzbeck	VULB9162	May 17, 2023	May 16, 2024
6	Horn Antenna	Schwarzbeck	BBHA9120D	May 17, 2023	May 16, 2024
7	Horn Antenna	A.H.SYSTEMS	SAS574	May 12, 2023	May 11, 2024
8	Amplifier	AEROFLEX	100KHz-40GHz	May 12, 2023	May 11, 2024
9	Spectrum Analyzer	R&S	FSV40	May 12, 2023	May 11, 2024
10	966 Anechoic Chamber	EMToni	9m6m6m	Nov. 25, 2021	Nov. 24, 2024
11	Spectrum Analyzer	KEYSIGHT	N9020A	May 12, 2023	May 11, 2024
12	WIDBAND RADIO COMMUNICATION TESTER	R&S	CMW500	May 12, 2023	May 11, 2024
13	Single Generator	Agilent	N5182A	May 12, 2023	May 11, 2024
14	Power Sensor	MWRFtest	MW100-RFCB	May 12, 2023	May 11, 2024
15	Audio analyzer	R&S	UPL	May 12, 2023	May 11, 2024
16	Single Generator	R&S	SMB100A	May 12, 2023	May 11, 2024
17	Power Amplifier Shielding Room	EMToni	2m3m3m	Nov. 25, 2021	Nov. 24, 2024



























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Conduction Test equipment

	/ 1 /	/ 2 /	/	a 1//
Equipment	Manufacturer	Model	Last Cal.	Next Cal.
Receiver	R&S	ESCI	May 12, 2023	May 11, 2024
LISN	R&S	ENV216	May 12, 2023	May 11, 2024
ISN CAT 6	Schwarzbeck	NTFM 8158	May 12, 2023	May 11, 2024
ISN CAT 5	Schwarzbeck	CAT5 8158	May 12, 2023	May 11, 2024
Capacitive Voltage Probe	Schwarzbeck	CVP 9222 C	May 12, 2023	May 11, 2024
Current Transformer Clamp	Schwarzbeck	SW 9605	May 12, 2023	May 11, 2024
CE Shielding Room	EMToni	9m4m3m	Nov. 25, 2021	Nov. 24, 2024





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4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10:2013
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

4.1.1 POWER LINE CONDUCTED EMISSION Limits

		7 12 27	
EDECHENCY (MH-)	Limit (d	dBuV)	Ctondord
FREQUENCY (MHz)	Quas-peak	Average	Standard
0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

(1) *Decreases with the logarithm of the frequency.

4.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

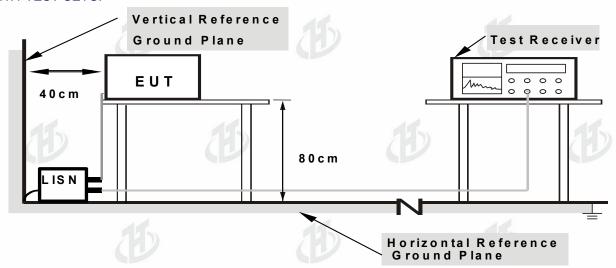




4.1.4 TEST SETUP

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Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80cm

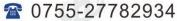
from other units and other metal planes

4.1.5 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.

4.1.6 TEST RESULTS

Note: The EUT is powered by battery DC 3V(AA 1.5V *2).





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Test Requirement:	FCC Part15 C Sect	ion 15.209		15).
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	9kHz to 25GHz				
Test site:	Measurement Distance: 3m				41
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
	Above IGHZ	Peak	1MHz	10Hz	Average

4.2.1 RADIATED EMISSION LIMITS

Frequencies	Field Strength	Measurement Distance		
(MHz)	(micorvolts/meter)	(meters)		
0.009~0.490	2400/F(KHz)	300		
0.490~1.705	24000/F(KHz)	30		
1.705~30.0	30	30		
30~88	100	3		
88~216	150	3		
216~960	200	3		
Above 960	500	3		

The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902-928 MHz	50	500
2400-2483.5 MHz	50	500
5725-5875 MHz	50	500
24.0-24.25 GHz	250	2500





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LIMITS OF RADIATED EMISSION MEASUREMENT

EDECHENCY (MH-)	Limit (dBuV/m) (at 3M)		
FREQUENCY (MHz)	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).

4.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 25GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-chamber test. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8m; above 1GHz, the height was 1.5m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.
- g. For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for

The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

Note:

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

4.2.3 DEVIATION FROM TEST STANDARD

No deviation





















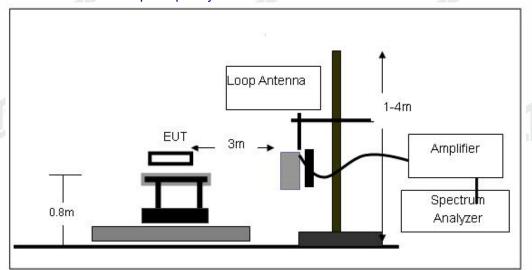




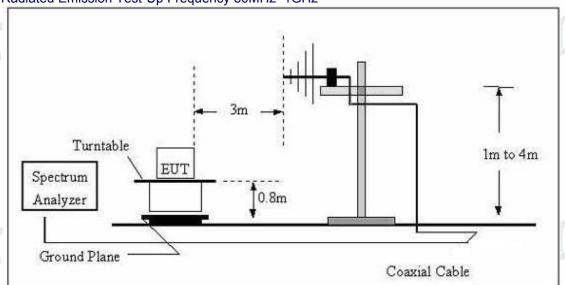
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4.2.4 TEST SETUP

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



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







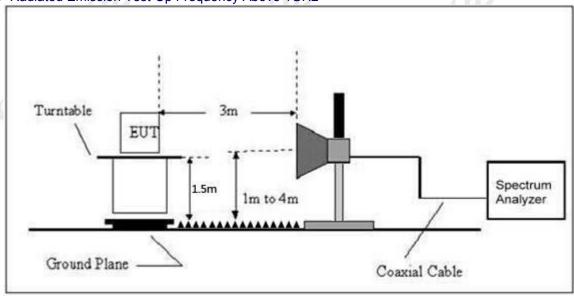






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(C) Radiated Emission Test-Up Frequency Above 1GHz



4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.







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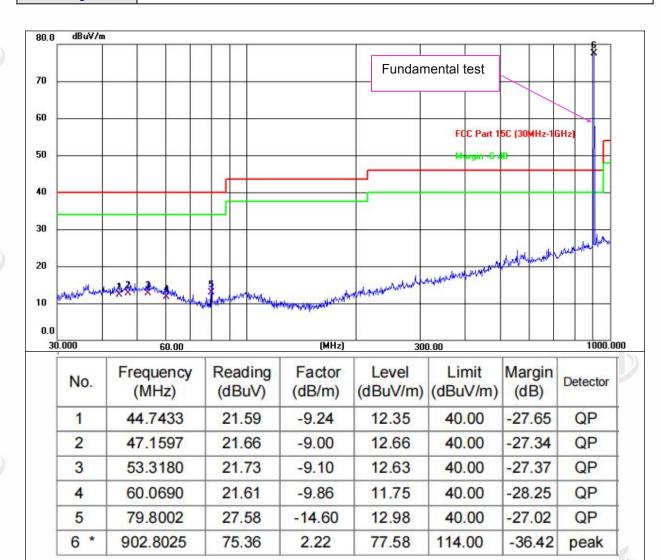
Field strength of Harmonics and Spurious Emissions

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and the test result no need to reported.

Between 30MHz - 1GHz

Low Channel

		0.0 (40)	The second secon		28.289
Temperature:	24.9℃	71)	Relative Humidity:	54%	<i>1</i> 10)
Pressure:	101 kPa		Polarization:	Horizontal	
Test Voltage:	DC 3V				

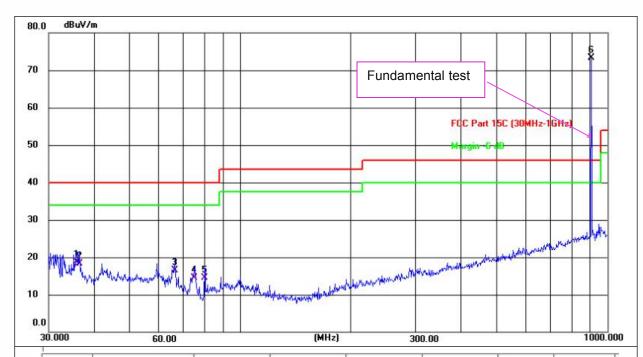






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Temperature:	24.9 ℃	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 3V		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	35.7490	29.17	-10.44	18.73	40.00	-21.27	QP
2	36.3813	28.70	-10.33	18.37	40.00	-21.63	QP
3	66.2662	28.26	-11.84	16.42	40.00	-23.58	QP
4	74.9191	28.27	-13.82	14.45	40.00	-25.55	QP
5	79.8003	29.11	-14.60	14.51	40.00	-25.49	QP
6 *	902.8094	71.01	2.22	73.23	114.00	-43.23	QP















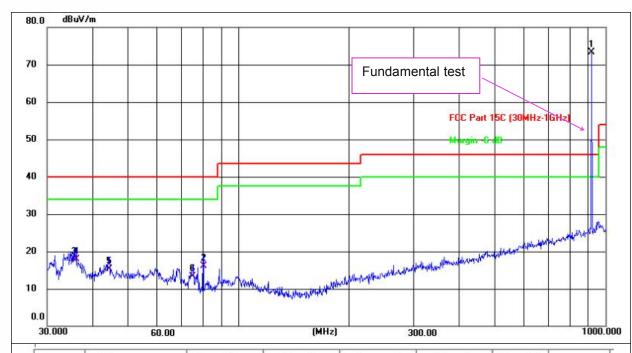






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Middle Charmon				
Temperature:	24.9℃	Relative Humidity:	54%	
Pressure:	101 kPa	Polarization:	Vertical	
Test Voltage:	DC 3V			



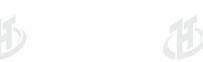
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	915.8084	70.97	2.33	73.30	114.00	-40.70	peak
2	80.0805	30.62	-14.61	16.01	40.00	-23.99	QP
3	35.4992	28.45	-10.48	17.97	40.00	-22.03	QP
4	36.0007	28.23	-10.40	17.83	40.00	-22.17	QP
5	44.2751	24.58	-9.28	15.30	40.00	-24.70	QP
6	74.9191	27.08	-13.82	13.26	40.00	-26.74	QP













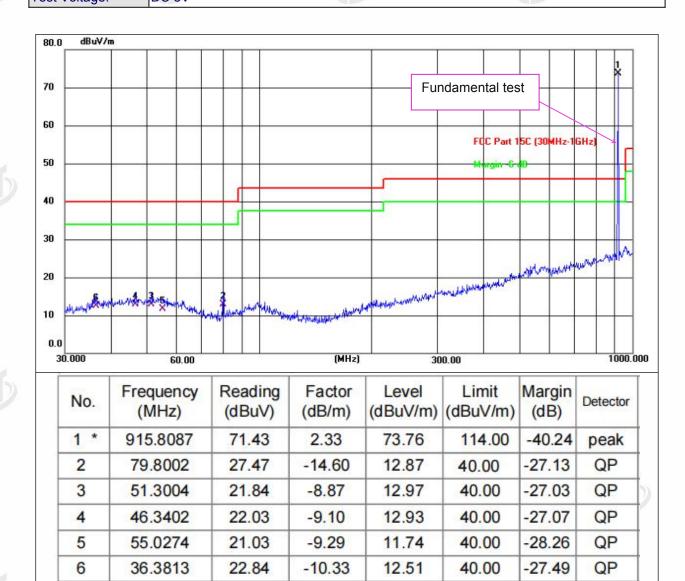






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Temperature:	24.9 ℃	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Horizontal
Test Voltage:	DC 3V		







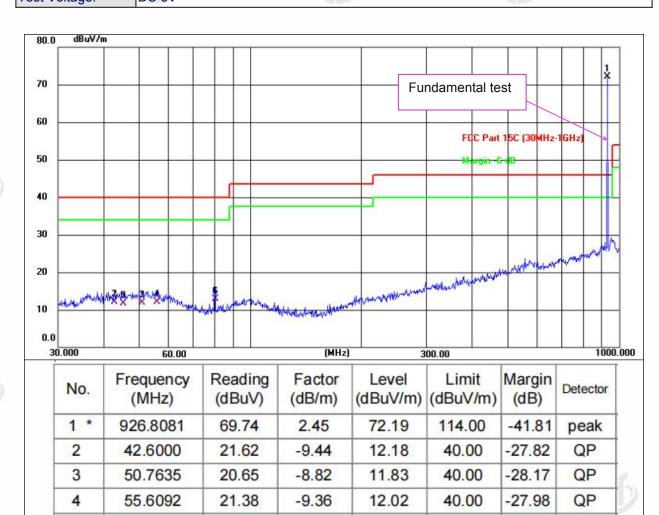
15

B

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High Channel

Temperature:	24.9℃	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 3V		





45.2165

80.0805



11.74

12.97

-9.20

-14.61



-28.26

-27.03

QP QP



5

6



20.94

27.58



40.00

40.00









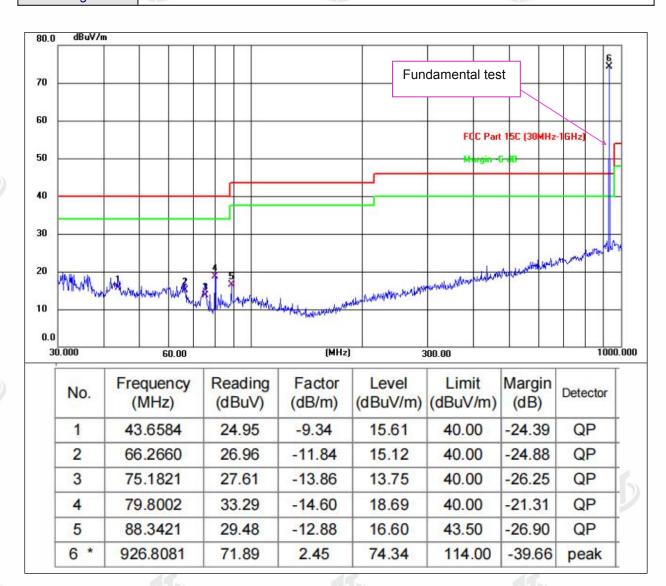






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Temperature:	24.9 ℃	Relative Humidity:	54%	
Pressure:	101kPa	Polarization:	Vertical	
Test Voltage:	DC 3V			



Remarks:

- 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.





















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Above 1G

-		all Plan			400 200		XIII PIL.		
Polar	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector
(H/V)	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре
				Low	Channel				
V	1805.60	49.66	30.55	5.77	24.66	49.54	74	-24.46	PK
Н	1805.60	44.58	30.55	5.77	24.66	44.46	74	-29.54	PK
	Middle Channel								
V	1831.60	47.98	30.55	5.77	24.66	47.86	74	-26.14	PK
Н	1831.60	51.38	30.55	5.77	24.66	51.26	74	-22.74	PK
High Channel									
V	1853.60	47.27	30.55	5.77	24.66	47.15	74	-26.85	PK
) H	1853.60	51.62	30.55	5.77	24.66	51.5	74	-22.5	PK

Remark:

- 1. Emission Level = Meter Reading + Antenna Factor + Cable Loss Pre-amplifier, Margin= Emission Level - Limit
- 2. If peak below the average limit, the average emission was no test.
- 3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
- 4. For above 1GHz, the test result of peak was 20dB below to the limit of peak, which can be compliant to the average limit, so just peak value was recorded.





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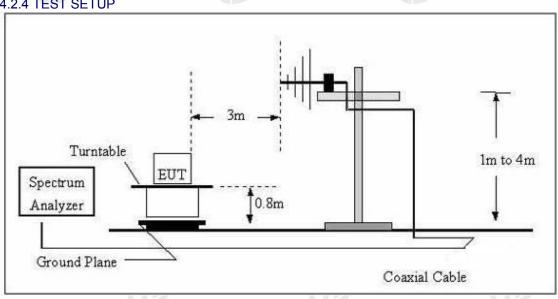
4.3.1 STANDARD APPLICABLE

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation

4.3.2 TEST PROCEDURE

As the radiation test, set the Lowest and Highest Transmitting Channel, observed the outside band of 902MHz to 928MHz, than mark the higher-level emission for comparing with the FCC rules.

4.2.4 TEST SETUP



4.3.3 TEST RESULTS

The edge emissions are below the FCC 15.209 Limits or complies with the 15.249 requirements.

Polar	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector
(H/V)	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре
	Low Channel								
V	902.00	22.35	30.32	5.63	24.66	33.64	46	-12.36	PK
Н	902.00	23.65	30.32	5.63	24.66	34.94	46	-11.06	PK
	High Channel								
V	928.00	22.15	30.32	5.63	24.66	33.44	46	-12.56	PK
Н	928.00	21.03	30.32	5.63	24.66	32.32	46	-13.68	PK







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5. CHANNEL BANDWIDTH

Test Requirement:	FCC PART 15.249	
-------------------	-----------------	--

5.1 APPLIED PROCEDURES / LIMIT

	40	4.6				
FCC part 15.249						
Section	Test Item	Frequency Range (MHz)	Result			
15.249	Bandwidth	902-928	PASS			

5.2 TEST PROCEDURE

- 1. Set resolution bandwidth (RBW) = 1-5% or DTS BW, not to exceed 100 kHz.
- 2. Set the video bandwidth (VBW) \geq 3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

2 0755-27782934







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5.6 TEST RESULTS

Temperature:	25.1℃	Relative Humidity:	53%
Test Mode :	GFSK	Test Voltage:	DC 3V

Test channel	-20dB Bandwidth (kHz)	Result
Lowest	88.64	(13)
Middle	89.02	Pass
Highest	90.57	

Test plots

Lowest channel



























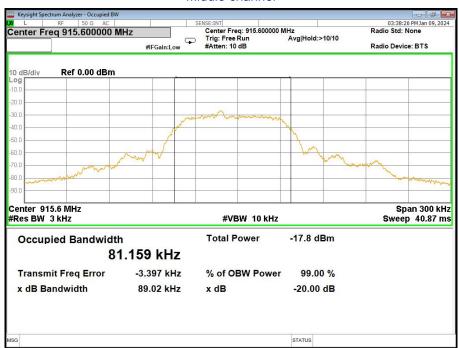
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Middle channel



Highest channel

















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6.ANTENNA REQUIREMENT

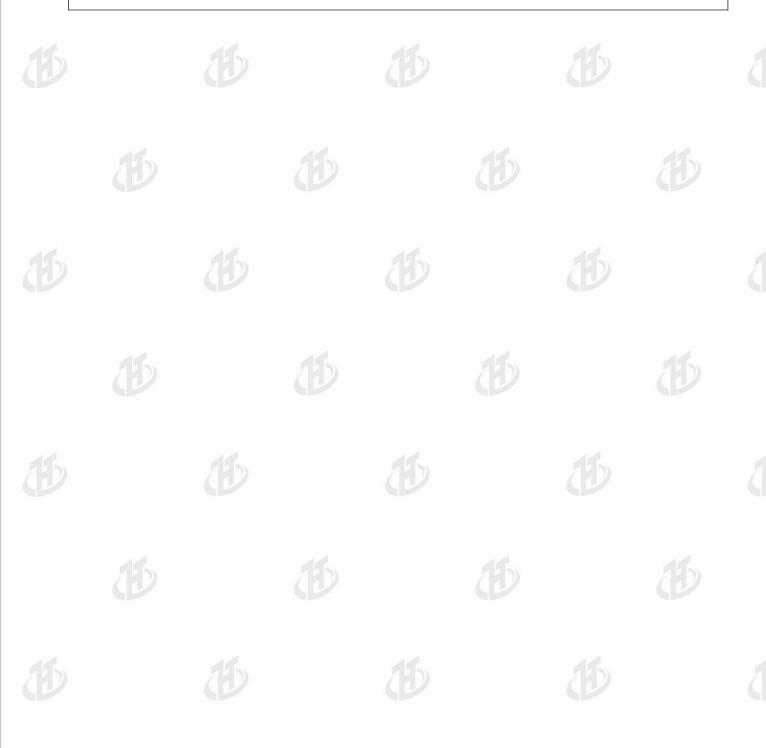
Standard requirement:	15.203

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.

EUT Antenna:

The antennas are PCB Antenna, the best case gain of the antennas are -0.3dBi, reference to the appendix II for details.









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7. TEST SETUP PHOTO

Reference to the appendix I for details.

8. EUT CONSTRUCTIONAL DETAILS

Reference to the appendix II for details.



