

# TEST REPORT

#### **FCC PART 15.236**

Report Reference No.: CTL1910291041-WF

Compiled by: ( position+printed name+signature)

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Approved by: ( position+printed name+signature) Ivan Xie

(Manager)

Product Name...... UHF Wireless Microphone

Model/Type reference ...... Mic-T2

Listed Models : Mic-T2R

Trade Mark ...... SYNCO

**FCC ID** ...... 2AUZR-WMIC-T2

Applicant's name ...... Guangzhou Zhiying Technology Co., Ltd.

Block 15th, No.200 Fangcun Avenue East, Liwan District, Address of applicant .....

Guangzhou, China, 510000

Test Firm ...... Shenzhen CTL Testing Technology Co., Ltd.

Floor 1-A, Baisha Technology Park, No.3011, Shahexi Road, Address of Test Firm .....

Nanshan District, Shenzhen, China 518055

Test specification .....:

Standard...... FCC Part 15.236: Operation of wireless microphones in the

bands 54-72 MHz, 76-88 MHz, 174-216 MHz, 470-608 MHz and

614-698 MHz

TRF Originator ...... Shenzhen CTL Testing Technology Co., Ltd.

Master TRF ...... Dated 2011-01

Date of receipt of test item .........: Nov. 06, 2019

Date of sampling ...... Nov. 06, 2019

**Data of Issue**...... Dec. 03, 2019

Result ..... Pass

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# **TEST REPORT**

Toot Bonort No.	Report No. : CTL1910291041-WF	Dec. 03, 2018
Test Report No. :	C1L1910291041-WF	Date of issue

Equipment under Test : UHF Wireless Microphone

Model /Type : Mic-T2

Listed Models : Mic-T2R

Applicant : Guangzhou Zhiying Technology Co., Ltd.

Address : Block 15th, No.200 Fangcun Avenue East, Liwan

District, Guangzhou, China, 510000

Manufacturer : Shenzhen Commlite Technology Co., LTD.

Address : 5th Floor, Building B, NO. 167 Pingxin North Road,

Pinghu Street, Long'gang District, Shenzhen,

Guangdong Province, China

Test result	Pass *
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<sup>\*</sup>In the configuration tested, the EUT complied with the standards specified page 5.

The test results presented in this report relate only to the object tested.

This report shall not be reproduced, except in full, without the written approval of the issuing testing laboratory.

# \*\* Modified History \*\*

Revisions	Description	Issued Data	Report No.	Remark
Version 1.0	Initial Test Report Release	2019-12-03	CTL1910291041-WF	Tracy Qi
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	Table of Contents	Page
1. SU	JMMARY	5
1.1.	TEST STANDARDS	5
1.2.	TEST DESCRIPTION	5
1.3.	TEST FACILITY	6
1.4.	STATEMENT OF THE MEASUREMENT UNCERTAINTY	6
2. GE	ENERAL INFORMATION	
2.1.	Environmental conditions	
2.2.	GENERAL DESCRIPTION OF EUT	8
2.3.	DESCRIPTION OF TEST MODES AND TEST FREQUENCY	8
2.4.	EQUIPMENTS USED DURING THE TEST	g
2.5.	RELATED SUBMITTAL(S) / GRANT (S)	
2.6.	Modifications	
3. TE	EST CONDITIONS AND RESULTS	
3.1.	CONDUCTED EMISSIONS TEST	10
3.2.	RADIATED EMISSIONS AND BAND EDGE	
3.3.	MAXIMUM OUTPUT POWER	14
3.4.	Occupied Bandwidth	15
3.5.	Necessary Bandwidth	18
3.6.	Transmitter spurious emissions	21
3.7.	FREQUENCY STABILITY	26
3.8.	Antenna Requirement	28
4. TE	EST SETUP PHOTOS OF THE EUT	29
5. PH	HOTOS OF THE EUT	30

## 1. SUMMARY

#### 1.1. TEST STANDARDS

The tests were performed according to following standards:

FCC Rules Part 15.236: Operation of wireless microphones in the bands 54-72 MHz, 76-88 MHz, 174-216 MHz, 470-608 MHz and 614-698 MHz

ANSI C63.10: 2013: American National Standard for Testing Unlicensed Wireless Devices

## 1.2. Test Description

FCC PART 15.247		
FCC Part 15.207	AC Power Conducted Emission	N/A
FCC Part 15.236(d)	RF Power Output	PASS
FCC Part 15.236(f)	Occupied Bandwidth	PASS
FCC Part 15.236(g) ETSI EN 300 422-1 v1.4.2	Necessary Bandwidth Spurious emissions	PASS
FCC Part 15.209	Radiated Emissions	PASS
FCC Part 15.236(f)(3)	Frequency Stability	PASS
FCC Part 15.203	Antenna Requirement	PASS

V1.0 Page 6 of 34 Report No.: CTL1910291041-WF

### 1.3. Test Facility

#### 1.3.1 Address of the test laboratory

Shenzhen CTL Testing Technology Co., Ltd.

Floor 1-A, Baisha Technology Park, No. 3011, Shahexi Road, Nanshan, Shenzhen 518055 China

There is one 3m semi-anechoic chamber and two line conducted labs for final test. The Test Sites meet the requirements in documents ANSI C63.4 and CISPR 32/EN 55032 requirements.

#### 1.3.2 Laboratory accreditation

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

CNAS-Lab Code: L7497

Shenzhen CTL Testing Technology Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

#### A2LA-Lab Cert. No. 4343.01

Shenzhen CTL Testing Technology Co., Ltd, EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

IC Registration No.: 9518B

**CAB identifier: CN0041** 

The 3m alternate test site of Shenzhen CTL Testing Technology Co., Ltd. EMC Laboratory has been registered by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements with Registration No.: 9518B on Jan. 22, 2019.

FCC-Registration No.: 399832

**Designation No.: CN1216** 

Shenzhen CTL Testing Technology Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 399832, December 08, 2017.

## 1.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods — Part 4: Uncertainty in EMC Measurements" and is documented in the Shenzhen CTL Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for CTL laboratory is reported:

Test	Measurement Uncertainty	Notes
Transmitter power conducted	±0.57 dB	(1)
Transmitter power Radiated	±2.20 dB	(1)
Conducted spurious emission 9KHz-40 GHz	±2.20 dB	(1)
Occupied Bandwidth	±0.01ppm	(1)
Radiated Emission 30~1000MHz	±4.10dB	(1)
Radiated Emission Above 1GHz	±4.32dB	(1)

V1.0 Page 7 of 34 Report No.: CTL1910291041-WF

Conducted Disturbance 0.15~30MHz	±3.20dB	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

V1.0 Page 8 of 34 Report No.: CTL1910291041-WF

## 2. GENERAL INFORMATION

#### 2.1. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Normal Temperature:	25°C
Relative Humidity:	55 %
Air Pressure:	101 kPa

## 2.2. General Description of EUT

Product Name:	UHF Wireless Microphone
Model/Type reference:	Mic-T2
Power supply:	DC 3.0V from Battery
Modulation:	FM
Operation frequency:	Group A:520-548.5MHz
	Group B:550-578.5MHz
Channel number:	192
Channel spacing:	300KHz
Antenna type:	External antenna
Antenna gain:	0dBi

Note: For more details, please refer to the user's manual of the EUT.

## 2.3. Description of Test Modes and Test Frequency

The Applicant provides software tools to control the EUT for staying in continuous transmitting (Duty Cycle more than 98%) and receiving mode for testing .There are 10 channels provided to the EUT and Channel 01/05/10 were selected to test.

#### **Operation Frequency:**

Group A Wor	Group A Working frequency		Group B Working frequency		
Channel	Frequency (MHz)	Channel	Frequency (MHz)		
CH00	520.000	CH00	550.000		
CH01	520.300	CH01	550.300		
CH02	520.600	CH02	550.600		
•••••	•••••	••••	•••••		
CH93	547.900	CH93	577.900		
CH94	548.200	CH94	578.200		
CH95	548.500	CH95	578.500		

## 2.4. Equipments Used during the Test

Test Equipment	Manufacturer	Model No.	Serial No.	Calibration	Calibration
Test Equipment	Manufacturer	WIOGCI IVO.	Ocharivo.	Date	Due Date
LISN	R&S	ENV216	3560.6550.1 2	2019/05/20	2020/05/19
LISN	R&S	ESH2-Z5	860014/010	2019/05/20	2020/05/19
Bilog Antenna	Sunol Sciences Corp.	JB1	A061713	2019/05/20	2020/05/19
EMI Test Receiver	R&S	ESCI	1166.5950.03	2019/05/20	2020/05/19
Spectrum Analyzer	Agilent	E4407B	MY41440676	2019/05/20	2020/05/19
Spectrum Analyzer	Agilent	N9020	US46220290	2019/05/20	2020/05/19
Controller	EM Electronics	EM 1000	060859	2019/05/20	2020/05/19
Horn Antenna	Sunol Sciences Corp.	DRH-118	A062013	2019/05/20	2020/05/19
Active Loop Antenna	Da Ze	ZN30900A	1	2019/05/20	2020/05/19
Amplifier	Agilent	8449B	3008A02306	2019/05/20	2020/05/19
Amplifier	Agilent	8447D	2944A10176	2019/05/20	2020/05/19
Temperature/Humi dity Meter	Gangxing	CTH-608	02	2019/05/20	2020/05/19
High-Pass Filter	micro-tranics	HPM50108	G174	2019/05/20	2020/05/19
High-Pass Filter	micro-tranics	HPM50111	G142	2019/05/20	2020/05/19
Coaxial Cables	HUBER+SUHN ER	SUCOFLEX 104PEA-10M	10m	2019/05/20	2020/05/19
Coaxial Cables	HUBER+SUHN ER	SUCOFLEX 104PEA-3M	3m	2019/05/20	2020/05/19
Coaxial Cables	HUBER+SUHN ER	SUCOFLEX 104PEA-3M	3m	2019/05/20	2020/05/19
RF Cable	Megalon	RF-A303	N/A	2019/05/20	2020/05/19
Power Sensor	Agilent	U2021XA	MY5365004	2019/05/20	2020/05/19
Power Meter	Agilent	U2531A	TW53323507	2019/05/20	2020/05/19

The calibration interval was one year

## 2.5. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended to comply with Section 15.236 of the FCC Part 15, Subpart C Rules.

## 2.6. Modifications

No modifications were implemented to meet testing criteria.

V1.0 Page 10 of 34 Report No.: CTL1910291041-WF

#### 3. TEST CONDITIONS AND RESULTS

#### 3.1. Conducted Emissions Test

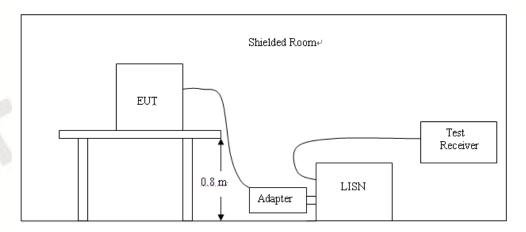
#### **LIMIT**

FCC CFR Title 47 Part 15 Subpart C Section 15.207

Francisco (Addis)	Limit (dBuV)		
Frequency range (MHz)	Quasi-peak	Average	
0.15-0.5	66 to 56*	56 to 46*	
0.5-5	56	46	
5-30	60	50	

<sup>\*</sup> Decreases with the logarithm of the frequency.

#### **TEST CONFIGURATION**



#### **TEST PROCEDURE**

- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system; a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10:2013.
- 2. Support equipment, if needed, was placed as per ANSI C63.10:2013.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10:2013.
- 4. The adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5. All support equipments received AC power from a second LISN, if any.
- 6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.

#### **TEST RESULTS**

Not applicable to this device, which is powered by battery.

## 3.2. Radiated Emissions and Band Edge

#### Limit

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission out of authorized band shall not exceed the following table at a 3 meters measurement distance.

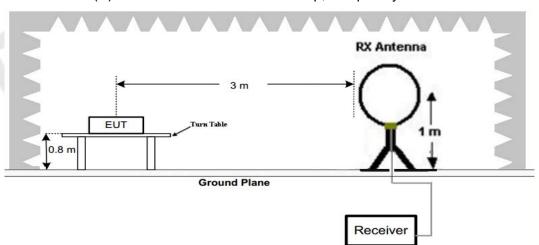
In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a)

Radiated emission limits

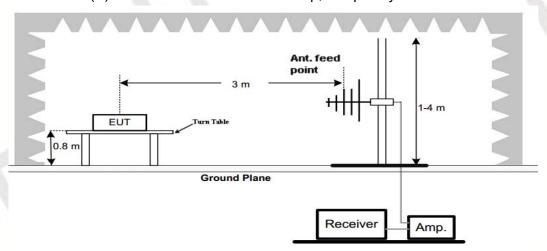
Tradition of the contract of t						
Frequency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (µV/m)			
0.009-0.49	3	20log(2400/F(KHz))+40log(300/3)	2400/F(KHz)			
0.49-1.705	3	20log(24000/F(KHz))+ 40log(30/3)	24000/F(KHz)			
1.705-30	3	20log(30)+ 40log(30/3)	30			
30-88	3	40.0	100			
88-216	3	43.5	150			
216-960	3	46.0	200			
Above 960	3	54.0	500			

#### **TEST CONFIGURATION**

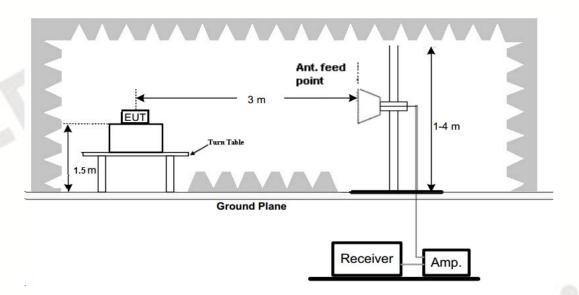
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(B) Radiated Emission Test Set-Up, Frequency below 1000MHz



(C) Radiated Emission Test Set-Up, Frequency above 1000MHz



#### **Test Procedure**

- 1. Below 1GHz measurement the EUT is placed on a turntable which is 0.8m above ground plane, and above 1GHz measurement EUT was placed on a low permittivity and low loss tangent turn table which is 1.5m above ground plane.
- 2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0°C to 360°C to acquire the highest emissions from EUT
- 3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 4. Repeat above procedures until all frequency measurements have been completed.

#### **TEST RESULTS**

#### Remark:

- 1. We measured Radiated Emission at all mode Low, Middle, and High channel from 9 KHz to 25GHz and recorded worst case at low channel.
- 2. For below 1GHz testing recorded worst at low channel.
- 3. Radiated emission test from 9 KHz to 10th harmonic of fundamental was verified, and no emission found except system noise floor in 9 KHz to 30MHz and not recorded in this report.

#### For 30MHz-1GHz



Note: Above 1-6GHz have been tested and found no emission except floor noise.

## 3.3. Maximum Output Power

#### **Limit**

The maximum radiated power shall not exceed the following values:

- (1) In the bands allocated and assigned for broadcast television and in the 600 MHz service band: 50 mW EIRP
- (2) In the 600 MHz guard band and the 600 MHz duplex gap: 20 mW EIRP.

#### **Test Procedure**

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power sensor.

#### **Test Configuration**



#### **Test Results**

Туре	Channel	Output power (dBm)	Ant. Gain (dBi)	EIRP (dBm)	Limit (dBm)	Result
Group A	CH00	7.841	0.00	7.841		Pass
	CH95	7.366	0.00	7.366	17	Pass
Group B	CH00	7.353	0.00	7.353	17	Pass
	CH95	8.687	0.00	8.687		

Note: 1. The test results including the cable lose.

V1.0 Page 15 of 34 Report No.: CTL1910291041-WF

## 3.4. Occupied Bandwidth

#### **Limit**

One or more adjacent 25 kHz segments within the assignable frequencies may be combined to form a channel whose maximum bandwidth shall not exceed 200 kHz. The operating bandwidth shall not exceed 200 kHz.

#### **Test Procedure**

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 3 KHz RBW and 10 KHz VBW.

#### **Test Configuration**



#### **Test Results**

Grouping	Channel	99% OBW (KHz)	Limit (KHz)	Result
Group A	CH00	64.405		A 10
- W W	CH95	64.326	200	Door
Group B	CH00	65.867	200	Pass
D _ D	CH95	65.019		TD.

#### Test plot as follows:





V1.0 Page 18 of 34 Report No.: CTL1910291041-WF

## 3.5. Necessary Bandwidth

#### **LIMIT**



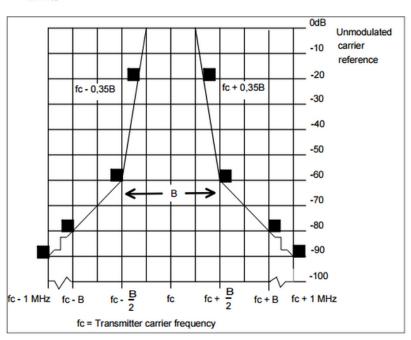


Figure 3: Spectrum mask for analogue systems in all bands

#### **TEST PROCEDURE**

The transmitter shall be modulated with the test signals defined in clause 7.1.2. In any case the mask shall not be exceeded.

- Step 1: Measure the "Carrier Power" with the spectrum analyzer setup:
- Center Frequency = fc
- Span = Zero span
- Detector = RMS
- Trace Mode = Average
- RBW&VBW =  $5 \times B$
- Sweep time ≥ 2 s
- Step 2: Measure the "Maximum Relative Level (dBc) at Specified Carrier Offsets" with the following spectrum analyzer setup:
- Center Frequency = fc
- Span ≥ 5 x B
- Detector = RMS
- Trace Mode = Peak Hold
- RBW&VBW = 1 kHz
- Sweep time ≥ 2 s

Limits: Mask shall not be exceeded.

- Step 3: Measure the "transmitter wide band noise floor": The measurement of transmitter broad band noise floor shall be carried out according to clause 8.3.1.1.
- Start Frequency = fc + B and fc 1 MHz below 1 GHz,

Start Frequency = fc + B and fc - 1 MHz above 1 GHz.

• Stop Frequency = fc + 1 MHz and fc - 1,75 B below 1 GHz,

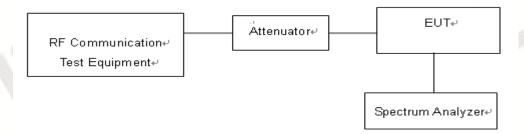
Stop Frequency = fc + 1 MHz and fc -B above 1 GHz.

- Detector = RMS
- Trace Mode = Average
- RBW&VBW = 1 kHz
- Sweep time ≥ 2 s

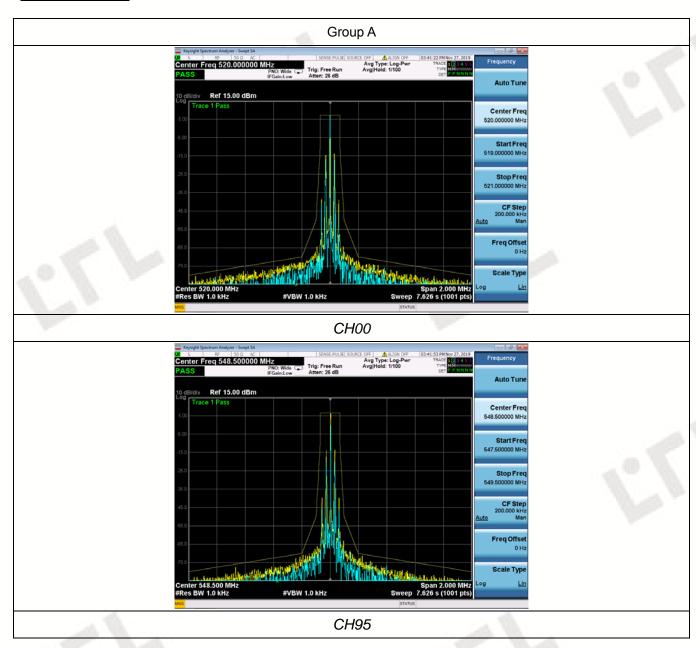
NOTE 2: Two spectrum ranges are to be measured!

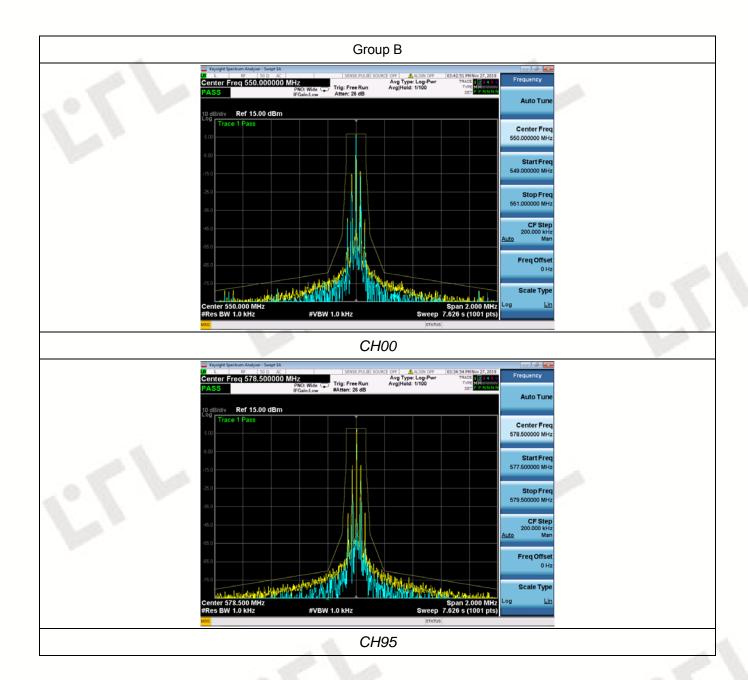
Limits: Mask shall not be exceeded.

#### **TEST CONFIGURATION**



#### **TEST RESULTS**





V1.0 Page 21 of 34 Report No.: CTL1910291041-WF

## 3.6. Transmitter spurious emissions

#### **Limit**

Spurious emissions are emissions outside the frequency range(s) of the equipment. The power of the spurious emissions shall not exceed the limits of table as below:

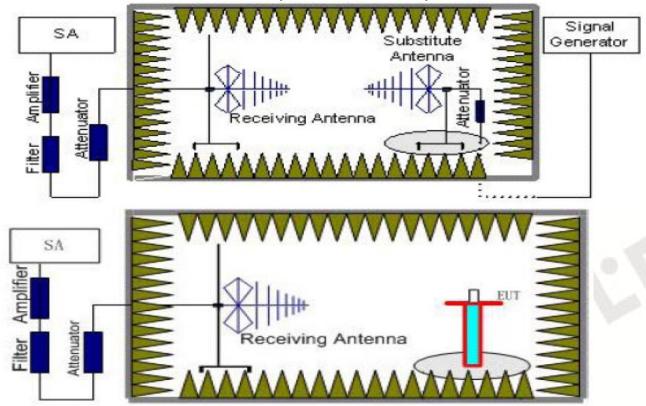
State	Frequency				
	47 MHz to 74 MHz 87,5 MHz to 137 MHz 174 MHz to 230 MHz 470 MHz to 862 MHz	Other Frequencies below 1 000 MHz	Frequencies above 1 000 MHz		
Operation	4 nW	250 nW	1 μW		
Standby	2 nW	2 nW	20 nW		

#### **Test Procedure**

The transmitter output was connected to the spectrum analyzer through an attenuator. Set spectrum analyzer start 2400MHz to 2483.5MHz with 100 KHz RBW and 300 KHz VBW.

#### **Test Configuration**

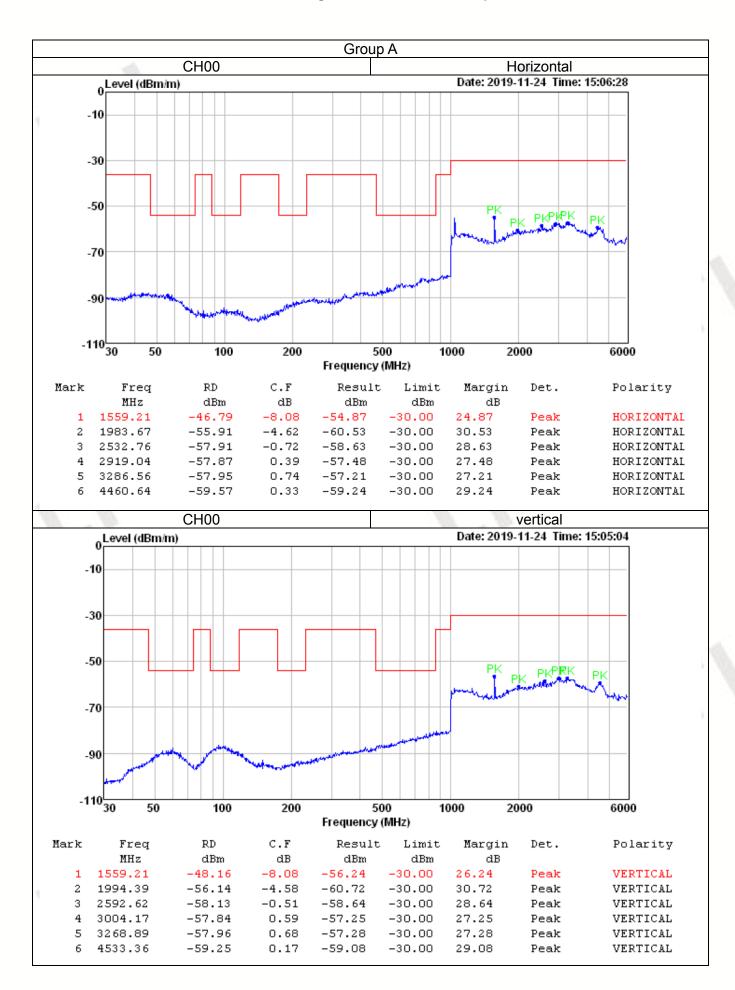
#### Effective Radiated Power measurement (30 MHz to 12.75 GHz)

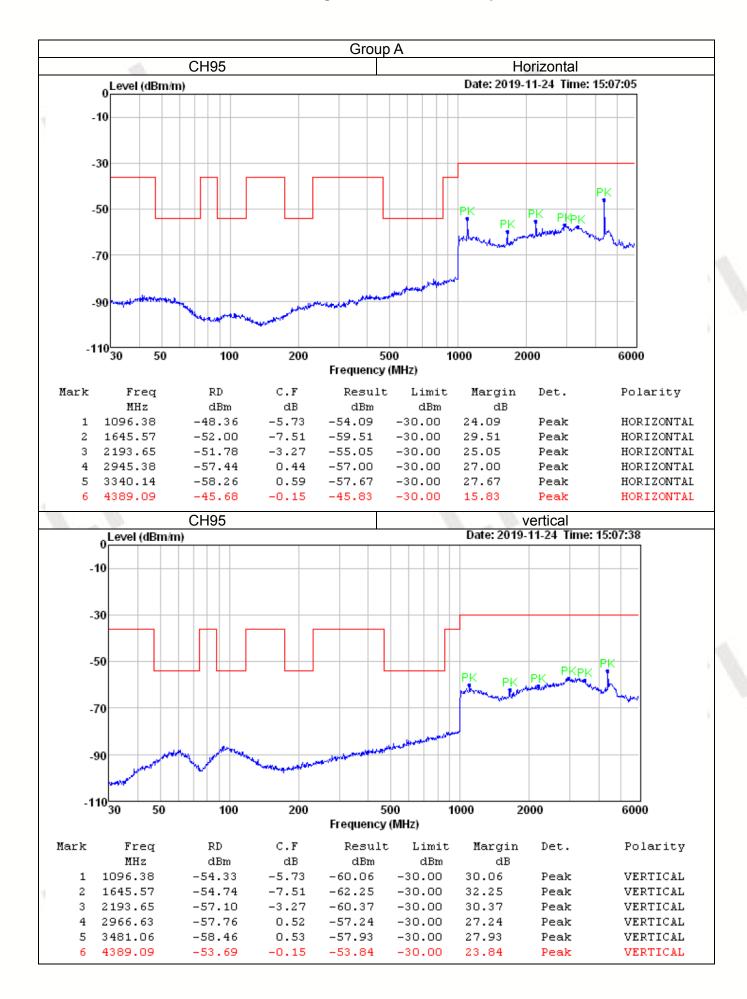


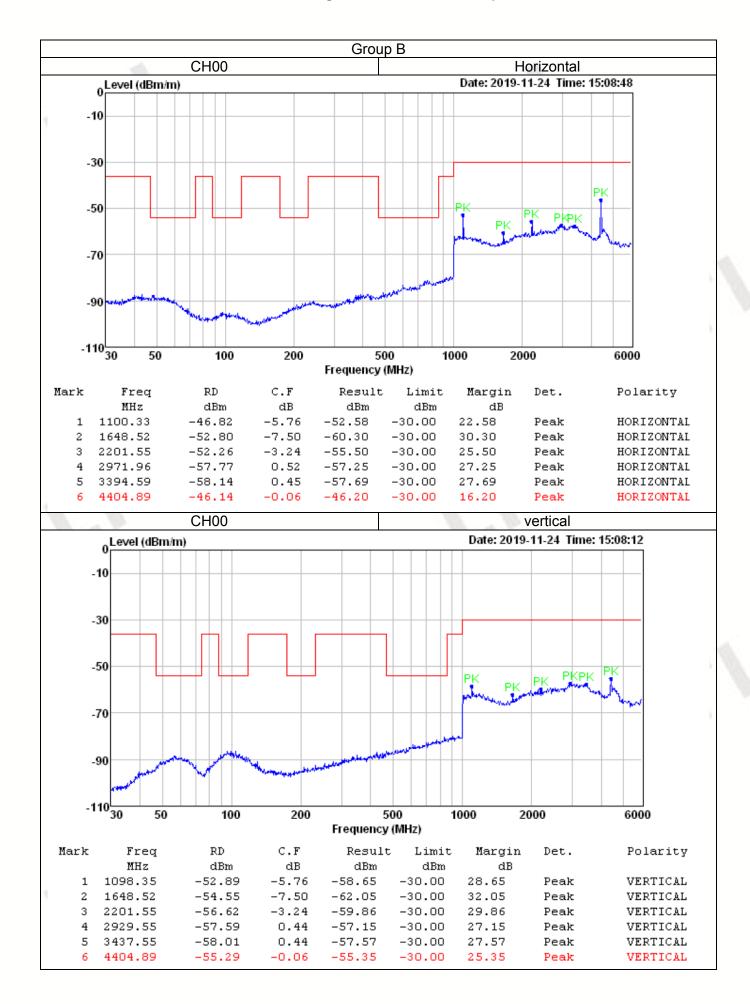
#### **TEST PROCEDURE**

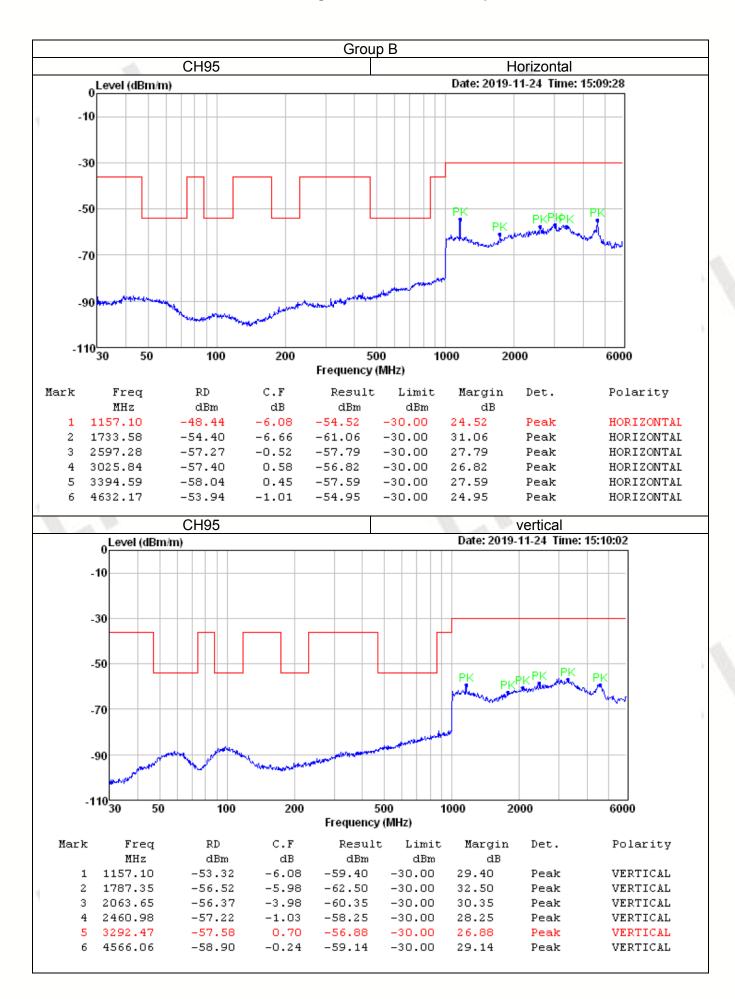
- 1. Please refer to ETSI EN 300 422-1 V1.4.2 (2011-08) clause 6.1 for the test conditions.
- 2. Please refer to ETSI EN 300 422-1 V1.4.2 (2011-08) clause 8.4.2 for the measurement method.

#### **Test Results**









### 3.7. Frequency Stability

#### Limit

The frequency tolerance of the carrier signal shall be maintained within ±0.005% of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. Battery operated equipment shall be tested using a new battery.

#### **Test Procedure**

#### a) Frequency stability versus environmental temperature

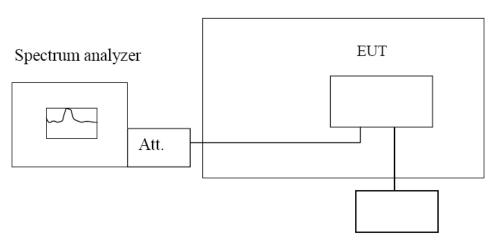
- 1. Setup asTest Configuration for frequencies measured at ambient temperature if it is within 15°C to 25°C. Otherwise, an environmental chamber set for a temperature of 20°C shall be used.
- 2. Turn on EUT and set SA center frequency to the right frequency needs to be measured. Then set SA RBW to 3 kHz, VBW to 10kHz and frequency span to 500 kHz. Record this frequency to be a reference.
- 3. Set the temperature of chamber to 50°C. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize. While maintaining a constant temperature inside the chamber, turn the EUT on and measure the EUT operating frequency.
- 4. Repeat step 2 with a 10<sup>°</sup>C decreased per stage until the lowest temperature -20<sup>°</sup>C is measured, record all measurement frequencies.

#### b) Frequency stability versus input voltage

- Setup asTest Configuration for frequencies measured at ambient temperature if it is within 15°C to 25°C. Otherwise, an environmental chamber set for a temperature of 20°C shall be used. Install new batteries in the EUT.
- 2. Set SA center frequency to the right frequency needs to be measured. Then set SA RBW to 3kHz, VBW to 10kHz and frequency span to 500 kHz. Record this frequency to be a reference.
- 3. For non hand carried, battery operated device, supply the EUT primary voltage with 85 and 115 percent of the nominal value and record the frequency.

#### **Test Configuration**

## Temperature Chamber



Variable Power Supply

## **Test Results**

Reference Frequency: 520.00MHz					
Voltage ( V )	Temperature (°C)	Frequency error (MHz)	Frequency Tolerance (%)	Limit (%)	Result
1	-20	0.01847	0.00276%	±0.005	PASS
	-10	0.01823	0.00272%		
3.0	0	0.01678	0.00250%		
	10	0.01796	0.00268%		
	20	0.01844	0.00275%		
	30	0.01721	0.00257%		
	40	0.01774	0.00265%		
	50	0.01832	0.00273%		
2.75	25	0.01811	0.00270%		
2.35	25	0.01837	0.00274%		

## 3.8. Antenna Requirement

#### **Standard Applicable**

For intentional device, according to FCC 47 CFR Section 15.203, 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.

#### Refer to statement below for compliance

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

#### **Antenna Connected Construction**

The maximum gain of antenna was 0dBi.



Antenna

V1.0 Page 29 of 34 Report No.: CTL1910291041-WF

# 4. Test Setup Photos of the EUT



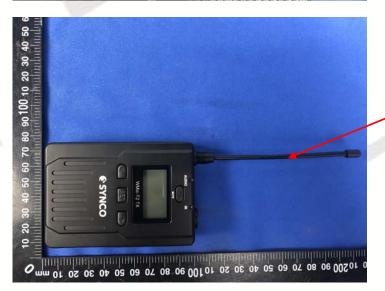


V1.0 Page 30 of 34 Report No.: CTL1910291041-WF

## 5. Photos of the EUT







Antenna







