

# **FCC Test Report**

Report No.: AGC00739180501FE03

FCC ID : ZRIUHF-20HHM

**APPLICATION PURPOSE**: Original Equipment

**PRODUCT DESIGNATION**: Wireless Microphone

**BRAND NAME** : Proaudio, PYLE

**MODEL NAME** : UHF-20HHM, PDKWM-HT

: PROAUDIO ELECTRONICS CO., LIMITED

**DATE OF ISSUE** : Jul 06, 2018

STANDARD(S)

TEST PROCEDURE(S)

: FCC Part 15 Rules

REPORT VERSION : V1.0

# Attestation of Global Compliance (Shenzhen) Co., Ltd

#### **CAUTION:**

This report shall not be reproduced except in full without the written permission of the test laboratory and shall not be quoted out of context.



The results spound this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by XOC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.ago.go.tt.com.

Attestation of Global Compliance

Tel: +86-755 2908 1955 Fax: +86-755 2600 8484 E-mail: agc@agc-cert.com @ 400 089 2118 Add: 2/F., Building 2, No.1-4,Chaxi Sanwei Technical Industrial Park,Gushu, Xixiang, Baoan District, Shenzhen, Guangdong China



Page 2 of 32

#### REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	1 Salara	Jul. 06, 2018	Valid	Initial Release

The results shown this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by KGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.agc.gett.com.



# **TABLE OF CONTENTS**

1. VERIFICATION OF CONFORMITY	5
2. GENERAL INFORMATION	6
2.1. PRODUCT DESCRIPTION	6
3. MEASUREMENT UNCERTAINTY	
4. DESCRIPTION OF TEST MODES	8
5. SYSTEM TEST CONFIGURATION	9
5.1. CONFIGURATION OF EUT SYSTEM	
5.2. EQUIPMENT USED IN EUT SYSTEM	9
5.3. SUMMARY OF TEST RESULTS	9
6. TEST FACILITY	10
7. MAXIMUM RADIATED POWER	
7.1TEST LIMIT	
7.2. MEASUREMENT PROCEDURE	
7.3. TEST SETUP	
7.4. TEST RESULT	
8. OCCUPIED BANDWIDTH	13
8.1TEST LIMIT	13
8.2. MEASUREMENT PROCEDURE	
8.3. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	
8.4. MEASUREMENT RESULTS	14
9. EMISSIONS WITHIN THE BAND AND OUTSIDE THIS BAND	15
9.1TEST LIMIT	15
9.2. MEASUREMENT PROCEDURE	
9.3. TEST SETUP	
9.4. TEST RESULT	17
10. FREQUENCY STABILITY	23
10.1. TEST LIMIT	23
10.2. MEASUREMENT PROCEDURE	23
10.3. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	23

The results oby WHENSES FEMILIES THE TOPIES THE TOPIES



ort No.: AGC00739180501FE03	
Page 4 of 32	

<b>APPENDIX A: PHOTOGRAPHS OF TEST SET</b>	TUP		25
APPENDIX B: PHOTOGRAPHS OF EUT	lite	F Stopal Con.,	26

The results shown in this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by (C), this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.agc.gett.com.



Page 5 of 32

# 1. VERIFICATION OF CONFORMITY

PROAUDIO ELECTRONICS CO., LIMITED
FLAT 03H 15/F CARNIVAL COMMERCIAL BUILDING 18 JAVA ROAD NORTH POINT HongKong
PROAUDIO ELECTRONICS CO., LIMITED
FLAT 03H 15/F CARNIVAL COMMERCIAL BUILDING 18 JAVA ROAD NORTH POINT HongKong
Wireless Microphone
Proaudio, PYLE
UHF-20HHM
PDKWM-HT
All the same except for the brand name.
Jun. 25, 2018 to Jul. 06, 2018
None
Normal
Pass @ ### Pass
AGCRT-US-BR/RF

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with Section 15.236 of the FCC Part 15, Subpart C Rules.

The results of testing in this report apply to the product/system which was tested only.

Tested By

Max Zhang(Zhang Yi)

Jul. 06, 2018

Reviewed By

Bart Xie(Xie Xiaobin)

Jul. 06, 2018

Forrest Lei(Lei Yonggang)
Authorized Officer

Jul. 06, 2018

The results spowfil this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by 40°C, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.ago.go.tt.com.



Page 6 of 32

# 2. GENERAL INFORMATION

# 2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	517.6MHz or 537.2MHz
Maximum Radiated Power	-15.65dBm
Modulation	FM
Number of channels	Low channel: 517.6MHz High channel: 537.2MHz
Antenna Gain	1dBi
Antenna Designation	Integrated Antenna (Met 15.203 Antenna requirement)
Hardware Version	HES170509V2.1(UHF-SM-LED)
Software Version	1.0
Power Supply	DC3V by Battery

The results showed this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.agc.gett.com.



Page 7 of 32

# 3. MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in measurement" (GUM) published by CISPR and ANSI.

- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB

The results spowed this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.agc.gott.com.



Page 8 of 32

# 4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Transmitting mode
Note: For R	Radiated Emission, 3axis were chosen for testing for each applicable mode.

The results shown this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by KGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.agc.gett.com.



Page 9 of 32

# 5. SYSTEM TEST CONFIGURATION

# **5.1. CONFIGURATION OF EUT SYSTEM**

Configure:

EUT
-----

#### **5.2. EQUIPMENT USED IN EUT SYSTEM**

Item	Equipment	Mfr/Brand	Model/Type No.	Remark
1	Wireless Microphone	Proaudio	UHF-20HHM	EUT .

#### **5.3. SUMMARY OF TEST RESULTS**

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.236(d)	Maximum radiated power	Compliant
§15.236(f)(2)	Occupied bandwidth	Compliant
§15.236(f)(3)	Frequency stability	Compliant
§15.236(g) Emissions within the band and outside this band		Compliant
§15.207(a) Conducted Emission		N/A

Note: N/A means it's not applicable to this item.

The results showed the sample (s) tested unless otherwise stated and the sample (s) are retained for 30 days only. The document is issued by (SC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.ago-gent.com.



Page 10 of 32

# 6. TEST FACILITY

01000	-1123 -1111			
Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd			
Location	1-2F., Bldg.2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District B112-B113, Bldg.12, Baoan Bldg Materials Center, No.1 of Xixiang Inner Ring Road, Baoan District, Shenzhen 518012			
NVLAP LAB CODE	600153-0			
Designation Number	CN5028			
FCC Test Firm Registration Number	682566			
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by National Voluntary Laboratory Accreditation program, NVLAP Code 600153-0			

# **TEST EQUIPMENT OF RADIATED EMISSION TEST**

	The state of the s					
Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due	
TEST RECEIVER	R&S	ESCI	10096	Jun.12, 2018	Jun.11, 2019	
EXA Signal Analyzer	Aglient	N9010A	MY5347050 4	Dec.08, 2017	Dec.07, 2018	
preamplifier	ChengYi	EMC184045 SE	980508	Sep.15, 2017	Sep.14, 2018	
Loop Antenna	ZHINAN	ZN30900C		Mar. 01, 2018	Feb. 28, 2019	
Telecommunication Test Set	HP	8920B	3104A03367	Jun.12, 2018	Jun.11, 2019	
H & T CHAMBER	EXPERY	TN-400	TN2007SR0 38	Jun.12, 2018	Jun.11, 2019	
ANTENNA	SCHWARZBE CK	VULB9168	D69250	Sep.28, 2017	Sep.27, 2018	

The results shown this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.agc.cett.com.



7. MAXIMUM RADIATED POWER

Report No.: AGC00739180501FE03 Page 11 of 32

#### 7.1TEST LIMIT

Standard FCC 15.236

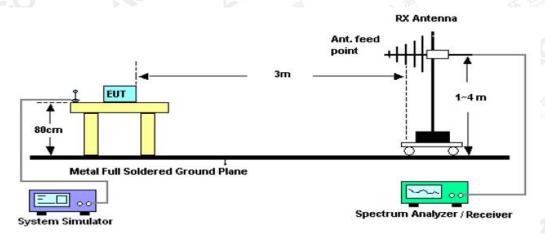
In the bands allocated and assigned for broadcast television and in the 600 MHz service band: 50 mW EIRP; In the 600 MHz guard bands including the duplex gap: 20 mW EIRP

#### 7.2. MEASUREMENT PROCEDURE

- 1. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6.  $EIRP[dBm] = E[dB(\mu V)/m] 95.2$

#### 7.3. TEST SETUP

#### RADIATED EMISSION TEST SETUP 30MHz-1000MHz



The results spound this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by XCC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.ago.go.tt.com.



Page 12 of 32

# 7.4. TEST RESULT

Frequency MHz	Polarization	Reading dBm	Factor dB	Level dBm Peak	Limit dBm Average	Margin dB	Pass/Fail
517.6	Horizontal	-52.46	33.46	-19.00	17.00	36.00	Pass
517.6	Vertical	-49.47	33.46	-16.01	17.00	33.01	Pass
537.2	Horizontal	-51.51	33.85	-17.66	17.00	34.66	Pass
537.2	Vertical	-49.50	33.85	-15.65	17.00	32.65	Pass

The results shown this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.agc.cett.com.



Page 13 of 32

#### 8. OCCUPIED BANDWIDTH

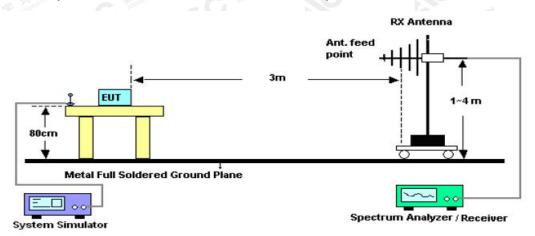
#### **8.1TEST LIMIT**

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.

# **8.2. MEASUREMENT PROCEDURE**

- 1. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2, Set the EUT Work on operation frequency.
- 3. Set Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a channel
  The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video
  bandwidth (VBW) shall be approximately three times RBW; Sweep = auto; Detector function = peak
- 4. Set SPA Trace 1 Max hold, then View.

# 8.3. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



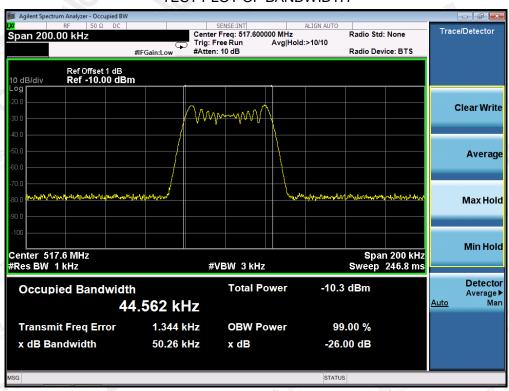
The results spound this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by XCC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at a true www.ago.gent.com.

Page 14 of 32

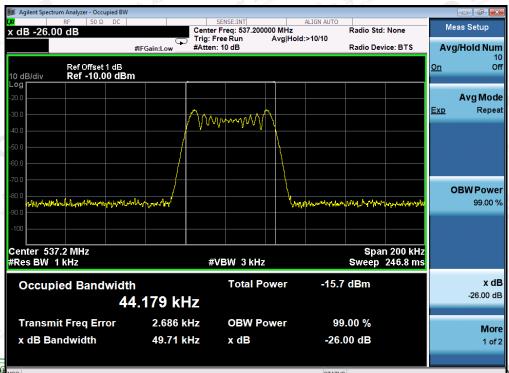
#### **8.4. MEASUREMENT RESULTS**

	Test Channel	-26dBc EBW (kHz)	99% OBW (kHz)	Limit (kHz)
1	517.6MHz	50.26	44.562	200
K Kil Compil	537.2MHz	49.71	44.179	200

#### **TEST PLOT OF BANDWIDTH**



#### TEST PLOT OF BANDWIDTH



The results specified the status and the authenticity of the report will be confirmed at attp://www.agc.gett.com.



Page 15 of 32

# 9. EMISSIONS WITHIN THE BAND AND OUTSIDE THIS BAND

#### 9.1TEST LIMIT

Emissions within the band from one megahertz below to one megahertz above the carrier frequency shall comply with the emission mask in §8.3 of ETSI EN 300 422-1 V1.4.2 (2011-08). Emissions outside of this band shall comply with the limits specified in section 8.4 of ETSI EN 300 422-1 V1.4.2 (2011-08).

#### 9.2. MEASUREMENT PROCEDURE

- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. EIRP[dBm] = E[dB( $\mu$ V)/m]- 95.2

The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting					
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP					
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP					
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP					
Start ~Stop Frequency	1000MHz~6000MHz/RB 1MHz for QP					

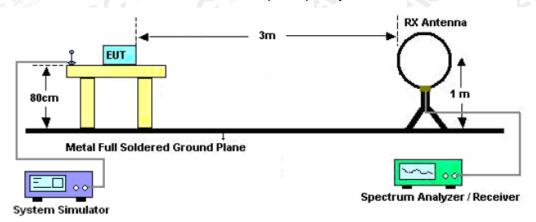
Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	1000MHz~6000MHz/RB 1MHz for QP

The results spound this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by XCC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at a trp://www.ago.go.tt.com.

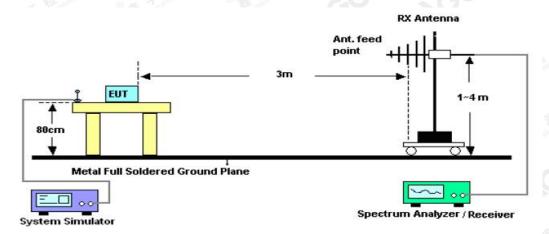


#### 9.3. TEST SETUP

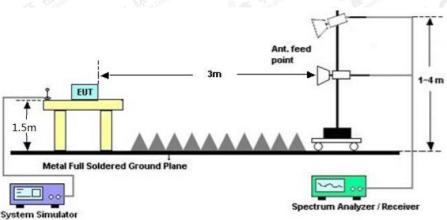
#### Radiated Emission Test-Setup Frequency Below 30MHz



#### RADIATED EMISSION TEST SETUP 30MHz-1000MHz



#### RADIATED EMISSION TEST SETUP ABOVE 1000MHz

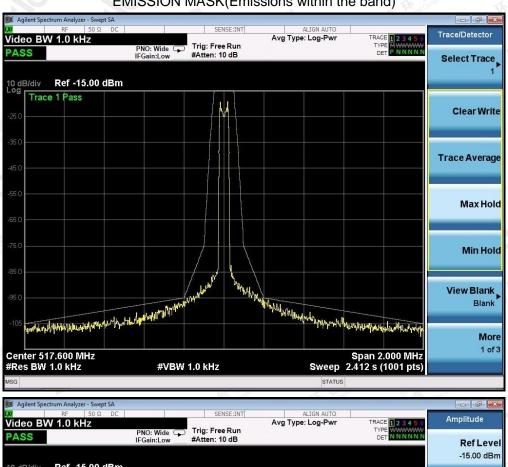


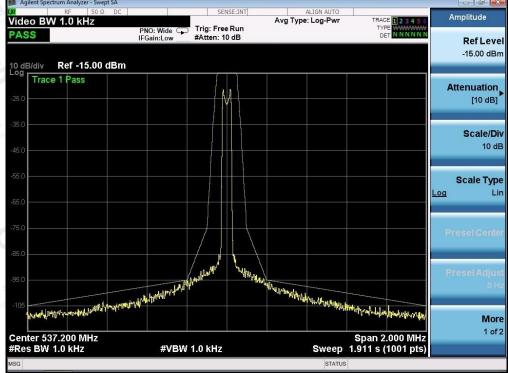
The results spoured this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by XOC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.ago.go.tt.com.



#### 9.4. TEST RESULT

#### EMISSION MASK(Emissions within the band)





Note: The carrier power for 517.6MHz and 537.2MHz are -15dBm, and The factor had been edited in the "Input Correction" of the Spectrum Analyzer.

The results spoword this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by 💢 €, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.agc-cert.com.



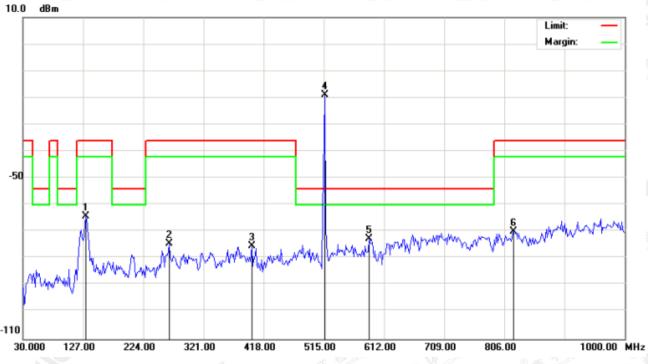
Page 18 of 32

#### **RADIATED EMISSION BELOW 30MHZ**

Note: No other emissions found between lowest internal used/generated frequencies to 30MHz.

# RADIATED EMISSION 30MHz- 1GHZ

EUT:	Wireless Microphone	Model Name. :	UHF-20HHM
Temperature:	20 °C	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage :	Normal
Test Mode :	Transmitting at 517.6MHz	Polarization :	Horizontal



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBm	dB	dBm	dBm	dB		cm	degree	
1		131.8500	-88.07	23.80	-64.27	-36.00	-28.27	peak			
2		266.0333	-100.78	26.38	-74.40	-36.00	-38.40	peak			
3		398.6000	-106.50	31.05	-75.45	-36.00	-39.45	peak			
4	*	517.6167	-52.46	33.45	-19.01	-54.00	34.99	peak			
5		587.7500	-107.36	34.57	-72.79	-54.00	-18.79	peak			
6		820.5500	-108.48	38.68	-69.80	-36.00	-33.80	peak		·	

**RESULT: PASS** 

The results spowford this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.agc.gett.com.



Page 19 of 32

EUT:	Wireless Microphone	Model Name. :	UHF-20HHM
Temperature:	20 ℃ Relative Hum		48%
Pressure:	1010 hPa	Test Voltage :	Normal
Test Mode :	Transmitting at 517.6MHz	Polarization :	Vertical



N	lo.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
			MHz	dBm	dB	dBm	dBm	dB		cm	degree	
	1		131.8500	-88.57	23.80	-64.77	-36.00	-28.77	peak			
	2		266.0333	-102.78	26.38	-76.40	-36.00	-40.40	peak			
	3		377.5833	-105.95	30.77	-75.18	-36.00	-39.18	peak			
	4	*	517.6167	-49.47	33.46	-16.01	-54.00	37.99	peak			
	5		657.2667	-106.27	36.04	-70.23	-54.00	-16.23	peak			
	6		765.5833	-108.14	38.94	-69.20	-54.00	-15.20	peak			

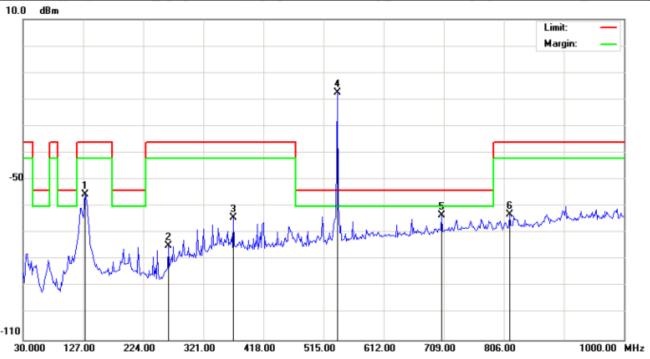
RESULT: PASS

The results showed this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.agc-gett.com.



Page 20 of 32

EUT:	Wireless Microphone	Model Name. :	UHF-20HHM		
Temperature :	20 ℃	Relative Humidtity:	48%		
Pressure:	1010 hPa	Test Voltage :	Normal		
Test Mode :	Transmitting at 537.2MHz	Polarization :	Horizontal		



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB		cm	degree	
1		130.2333	-83.07	27.52	-55.55	-36.00	-19.55	peak			
2		264.4167	-96.07	21.35	-74.72	-36.00	-38.72	peak			
3		369.5000	-95.02	30.87	-64.15	-36.00	-28.15	peak			
4	*	537.2333	-51.51	33.85	-17.66	-54.00	36.34	peak			
5		705.7667	-100.83	37.36	-63.47	-54.00	-9.47	peak			
6		815.7000	-102.47	39.32	-63.15	-36.00	-27.15	peak			

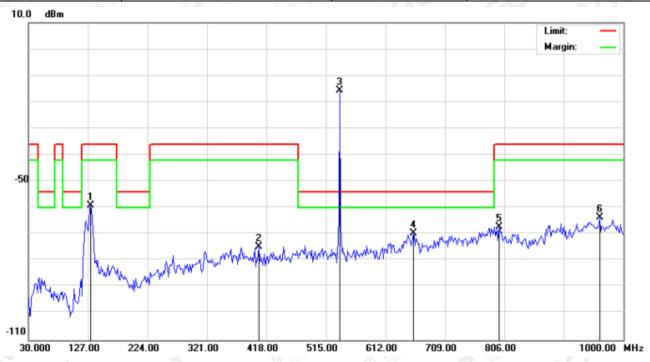
RESULT. PASS

The results showed this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.agc.gett.com.



Page 21 of 32

			1 490 21 01 02
EUT:	Wireless Microphone	Model Name. :	UHF-20HHM
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure :	1010 hPa	Test Voltage :	Normal
Test Mode :	Transmitting at 537.2MHz	Polarization:	Vertical



No.	Mk	Freq.	Reading	Factor	Measurement	Limit		Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB	cm	cm	degree	
1		131.8500	-83.07	23.80	-59.27	-36.00	-23.27	peak			
2		405.0667	-105.83	31.22	-74.61	-36.00	-38.61	peak			
3	*	537.2333	-49.50	33.85	-15.65	-54.00	38.35	peak			
4		657.2667	-105.77	36.04	-69.73	-54.00	-15.73	peak			
5		797.9167	-106.91	39.59	-67.32	-36.00	-31.32	peak			
6		961.2000	-105.69	42.12	-63.57	-36.00	-27.57	peak			

# **RESULT: PASS**

#### Note:

Factor=Antenna Factor + Cable loss, Margin=Result-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

The emission signal at the 516.7MHz and 537.2MHz above the limit is the fundamental wave.

The results spowford this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by XOC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.ago.go.tt.com.



Page 22 of 32

#### **RADIATED EMISSION ABOVE 1GHZ**

EUT	Wireless Microphone	Model Name.	UHF-20HHM
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Transmitting at 517.6MHz	Antenna	Horizontal/ Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits 🦠 🐔	Margin	Value Type
(MHz) (dBm)	(dB)	(dBm)	(dBm)	(dB)	value Type	
1035.200	-42.32	4.24	-38.08	-30	-8.08	Horizontal
1035.200	-43.58	4.24	-39.34	-30	-9.34	Vertical
1552.800	-46.74	5.87	-40.87	-30	-10.87	Horizontal
1552.800	-47.66	5.87	-41.79	-30	-11.79	Vertical

EUT	Wireless Microphone	Model Name.	UHF-20HHM
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Transmitting at 537.2MHz	Antenna	Horizontal/ Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Tree
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	Value Type
1074.400	-41.13	4.24	-36.89	-30	-6.89	Horizontal
1074.400	-42.52	4.24	-38.28	-30	-8.28	Vertical
1611.600	-46.41	5.87	-40.54	-30	-10.54	Horizontal
1611.600	-47.28	5.87	-41.41	-30	-11.41	Vertical
Remark:	a.G. Am				711	
actor = Anter	na Factor + Cable	Loss – Pre-	amplifier.	litte:	Age June	- 3

#### **RESULT: PASS**

## Note:

Other emissions from 1G to 6 GHz are considered as ambient noise. No recording in the test report.

The "Factor" value can be calculated automatically by software of measurement system.

The results spowth this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.agc.gott.com.



Page 23 of 32

#### 10. FREQUENCY STABILITY

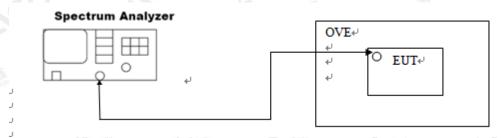
#### 10.1. TEST LIMIT

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.

#### 10.2. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the operation frequency.
- 3. Set SPA Centre Frequency = Operation Frequency, RBW= 1 KHz, VBW ≥3×RBW.
- 4. Set SPA Trace 1 Max hold, then View.
- 5. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value
- 6. Extreme temperature rule is -20°C~50°C.

### 10.3. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



The results spowford this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by XOC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.ago.go.tt.com.



## 10.4. MEASUREMENT RESULTS

Report No.: AGC00739180501FE03 Page 24 of 32

Test frequency: 517.6MHz

Voltage vs. Frequency Stability (Test Temperature: 20°C)

Voltage(V)	Measurement Frequency (MHz)	Max. Deviation (MHz)	Limit(MHz)	Conclusion
2.55	517.6088	of Global C	(8) A Glove	
3.00	517.6087	0.0088	0.02588	PASS
3.45	517.6088	60	GO >	

Temperature vs. Frequency Stability (Test Voltage: 3.00V)

Temperature	Measurement Frequency (MHz)	Max. Deviation (MHz)	Limit(MHz)	Conclusion
- 20℃	517.6087		To Manual Control	The Compliant
-10℃	517.6087		Global Co.	3 Stanton of Globa
0℃	517.6087		Attestation	Allest
10℃	517.6089	0.0089	0.02588	PASS
20℃	517.6087	0.0069	0.02500	PASS
30℃	517.6087		3	El polance
40℃	517.6084		HE MANOR	(8) We allow of Glops.
50℃	517.6085	The Compliance	al Company B Allestation C	Allestia

Test frequency: 537.2MHz

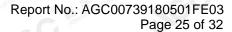
Voltage vs. Frequency Stability (Test Temperature: 20°C)

Voltage(V)	Measurement Frequency (MHz)	Max. Deviation (MHz)	Limit(MHz)	Conclusion
2.55	537.2091	M *	Laliance The Compliance	® Alajion of Gib
3.00	537.2088	0.0091	0.02686	PASS
3.45	537.2090	® Station of	Altestallo	

Temperature vs. Frequency Stability (Test Voltage: 3.00V)

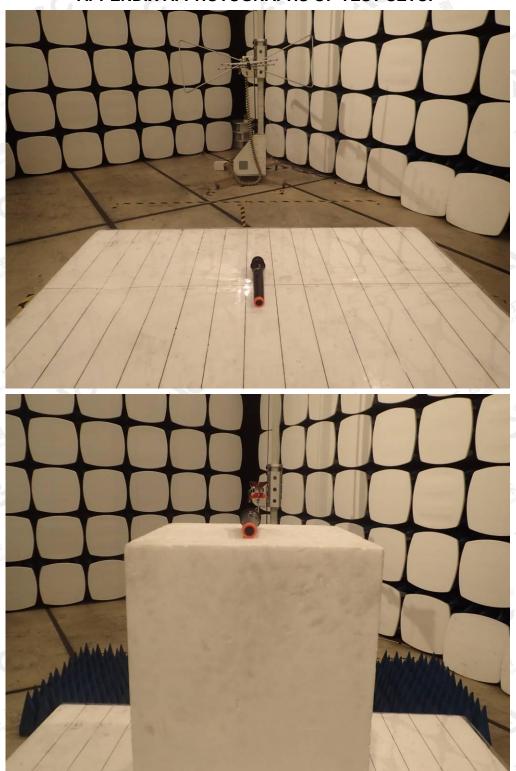
	LD: 100		23 10	
Temperature	Measurement Frequency (MHz)	Max. Deviation (MHz)	Limit(MHz)	Conclusion
- 20℃	537.2091		liti:	
-10℃	537.2089		The market of the second	EN ACOMPHENCE
0℃	537.2092	457 m.s.	of Global Co.	State of Globa
10℃	537.2094	0.0000	0.00000	DACC
20℃	537.2088	0.0092	0.02686	PASS
30℃	537.2092	G And		-1115-
<b>40</b> ℃	537.2091			E This
50℃	537.2088	-Jilli	THE COLOR	Court Clops

The results spowford this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.agc.gent.com.





# **APPENDIX A: PHOTOGRAPHS OF TEST SETUP**



The results showed this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attr://www.agc.cett.com.

Attestation of Global Compliance

AGC 8

Tel: +86-755 2908 1955 Fax: +86-755 2600 8484 E-mail: agc@agc-cert.com @ 400 089 2118 Add: 2/F., Building 2, No.1-4,Chaxi Sanwei Technical Industrial Park,Gushu, Xixiang, Baoan District, Shenzhen, Guangdong China



Page 26 of 32

# **APPENDIX B: PHOTOGRAPHS OF EUT**

TOTAL VIEW OF EUT



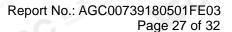
TOP VIEW OF EUT



The results showed this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.agc.gett.com.

Attestation of Global Compliance

Tel: +86-755 2908 1955 Fax: +86-755 2600 8484 E-mail: agc@agc-cert.com @ 400 089 2118 Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, Guangdong China





#### **BOTTOM VIEW OF EUT**



FRONT VIEW OF EUT

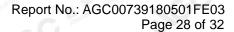


The results spoured this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by KGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at a true; //www.agc-gent.com.

Attestation of Global Compliance

AGC 8

Tel: +86-755 2908 1955 Fax: +86-755 2600 8484 E-mail: agc@agc-cert.com @ 400 089 2118 Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, Guangdong China





#### **BACK VIEW OF EUT**



LEFT VIEW OF EUT



The results spowd this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attr://www.agc-gent.com.



#### RIGHT VIEW OF EUT



**OPEN VIEW OF EUT** 



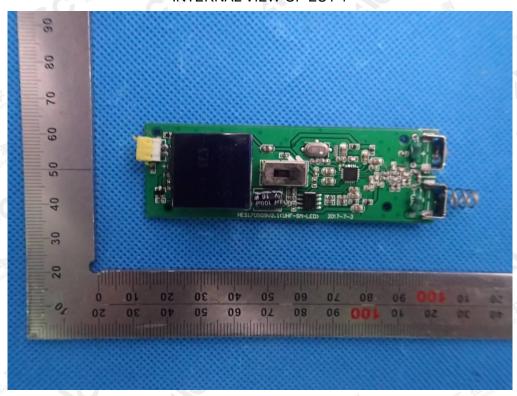
The results showed this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attr://www.agc-gett.com.

Attestation of Global Compliance

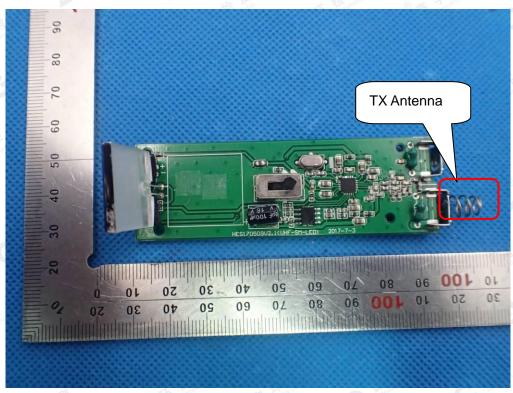
Tel: +86-755 2908 1955 Fax: +86-755 2600 8484 E-mail: agc@agc-cert.com @ 400 089 2118 Add: 2/F. , Building 2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, Guangdong China



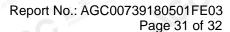
#### **INTERNAL VIEW OF EUT-1**



**INTERNAL VIEW OF EUT-2** 

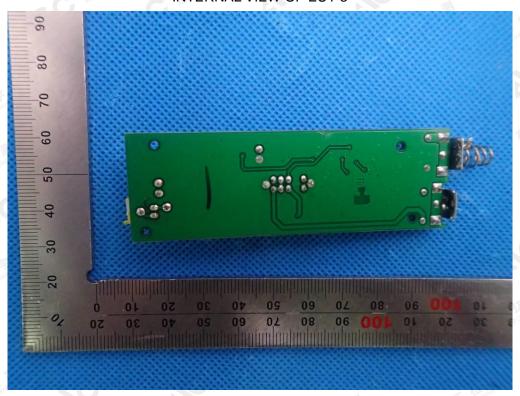


The results showing this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.agc.gent.com.

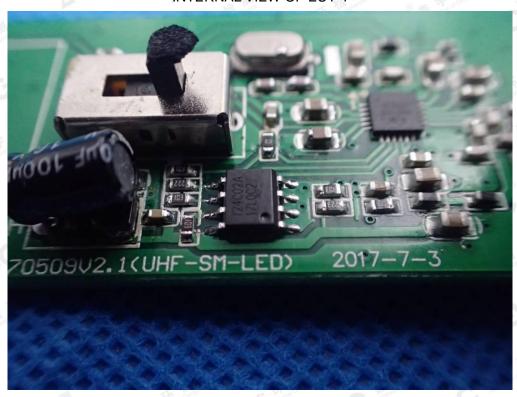




#### **INTERNAL VIEW OF EUT-3**



**INTERNAL VIEW OF EUT-4** 



The results shown this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attr://www.agc.gett.com.

Attestation of Global Compliance

Tel: +86-755 2908 1955 Fax: +86-755 2600 8484 E-mail: agc@agc-cert.com @ 400 089 2118 Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, Guangdong China



Page 32 of 32

#### **INTERNAL VIEW OF EUT-5**



----FND OF REPORT---

The results shown this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.agc.com.

Attestation of Global Compliance

Tel: +86-755 2908 1955 Fax: +86-755 2600 8484 E-mail: agc@agc-cert.com @ 400 089 2118 Add: 2/F. , Building 2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, Guangdong China