

FCC Test Report

Report No.: AGC13550220604FE04

FCC ID : 2A7ZR-PWMAZ-Q1

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION: PUREMIC Wireless Microphone Q2

BRAND NAME : N/A

MODEL NAME : PWMAZ-Q2

APPLICANT: Shanghai Loostone Information Technology Co., Ltd.

DATE OF ISSUE : Aug. 19, 2022

STANDARD(S) : FCC Part 15.236

REPORT VERSION: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd





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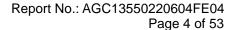
Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Aug. 19, 2022	Valid	Initial Release



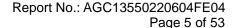
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1. VERIFICATION OF CONFORMITY

Applicant	Shanghai Loostone Information Technology Co., Ltd.	
Address	7B-03, Second Floor, Building 7, No.351 Sizhuan Road, Sijng Town, Songjiang District, Shanghai	
Manufacturer	Shanghai Loostone Information Technology Co., Ltd.	
Address	7B-03, Second Floor, Building 7, No.351 Sizhuan Road, Sijng Town, Songjiang District, Shanghai	
Product Designation	PUREMIC Wireless Microphone Q2	
Brand Name N/A		
Test Model PWMAZ-Q2		
Date of test Jul. 21, 2022 to Aug. 19, 2022		
Deviation No any deviation from the test method		
Condition of Test Sample Normal		
Test Result Pass		
Report Template	AGCRT-US-LPAS/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 radiated emission limits of FCC Part 15.236.

Reviewed By

Cool Cheng (Project Engineer)

Calvin Liu (Reviewer)

Aug. 19, 2022

Approved By

Max Zhang (Authorized Officer)

Aug. 19, 2022



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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

Operation Frequency	Group A: 657MHz -662MHz		
Operation Frequency	Group B: 657.5MHz -662.5MHz		
Maximum Radiated Power	Group A: 7.934dBm		
waxiiiidiii Nadiated Fowei	Group B: 8.083dBm		
Modulation	FM		
Number of channels	Group A: 3		
Number of channels	Group B: 3		
Antenna Gain	2.87dBi		
Antenna Designation	PCB Antenna (Met 15.203 Antenna requirement)		
Hardware Version	K0012-LS-A-MIC-BOM-1.05		
Software Version	V1.0		
Power Supply	DC 3.7V by battery		

Channel list: Group A

Channel Number	Frequency (MHz)
1	657
2	660
3	662

Channel list: Group B

Channel Number	Frequency (MHz)
1	657.5
2	660.5
3	662.5



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2.2. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

2.3. SPECIAL ACCESSORIES

Refer to section 5.2.

2.4. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

2.5. ANTENNA REQUIREMENT

This intentional radiator is designed with a permanently attached antenna of an antenna to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

For more information of the antenna, please refer to the APPENDIX B: PHOTOGRAPHS OF EUT.



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3. MEASUREMENT 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%.

Item	Measurement Uncertainty	
Uncertainty of Conducted Emission for AC Port	$U_c = \pm 3.1 \text{ dB}$	
Uncertainty of Radiated Emission below 1GHz	$U_c = \pm 4.0 \text{ dB}$	
Uncertainty of Radiated Emission above 1GHz	$U_c = \pm 4.8 \text{ dB}$	
Uncertainty of total RF power, conducted	$U_c = \pm 0.8 \text{ dB}$	
Uncertainty of spurious emissions, conducted	U _c = ±2 %	
Uncertainty of Occupied Channel Bandwidth	U _c = ±2 %	



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4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION	
1	Group A TX mode at Low channel(CH01:657MHz)	
2	Group A TX mode at Middle channel(CH02: 660MHz)	
3	Group A TX mode at High channel(CH03: 662MHz)	
4	Group B TX mode at Low channel(CH01:657.5MHz)	
5	Group B TX mode at Middle channel(CH02: 660.5MHz)	
6	Group B TX mode at High channel(CH03: 662.5MHz)	

Note:

- 1. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
- 2. For Conducted Test method, a temporary antenna connector is provided by the manufacture.
- 3. For battery operated equipment, the equipment tests are performed using a new battery.



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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Radiated Emission Configure:

EUT	

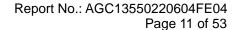
5.2 EQUIPMENT USED IN TESTED SYSTEM

Iten	n Equipment	Model No.	ID or Specification	Remark
1	PUREMIC Wireless Microphone Q2	PWMAZ-Q2	2A7ZR-PWMAZ-Q1	EUT

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.203	Antenna requirement	Compliant
§15.236(d)(1)	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	Compliant
§15.236(g)	Emissions outside of this band	Compliant
15.207	Line Conducted Emission	Not applicable

Note: Wireless function is not working when charging.





6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Designation Number	CN1259
FCC Test Firm Registration Number	975832
A2LA Cert. No.	5054.02
Description	Attestation of Global Compliance (Shenzhen) Co., Ltd is accredited by A2LA

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Mar. 28, 2022	Mar. 27, 2023
EXA Signal Analyzer	Aglient	N9020A	MY52090123	Aug. 04, 2022	Aug. 03, 2023
Attenuator	Wariors	W13	11324	Aug. 20, 2022	Aug. 19, 2023
Horn antenna	ETS-LINDGREN	3117	00154520	Sep. 06, 2021	Sep. 05, 2023
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Mar. 12, 2022	Mar. 11, 2024
Double-Ridged Waveguide Horn	ETS-LINDGREN	3117	00034609	Apr. 23, 2021	Apr. 22, 2023
Broadband Preamplifier	ETS-LINDGREN	3117PA	00225134	Sep. 03, 2021	Sep. 02, 2022
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 08, 2021	Jan. 07, 2023
Wireless communication tester	HP	8920B	US35010161	Aug. 03, 2022	Aug. 02, 2023
Test software	Tonscend	JS32-RE (Ver. 2.5)	N/A	N/A	N/A



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7. OUPUT POWER

7.1. TEST LIMIT

The power may not exceed the following values.

657-663MHz bands: 20 mW EIRP

7.2. MEASUREMENT PROCEDURE

EIRP Test Method

- 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.
- 3. 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 emission, 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(μ V)/m]-95.3
- 4.7dB shall be added as an upper bound on the field strength that would be observed on a test range with a ground plane for frequencies between 30MHz and 1000MHz, or an additional 6dB shall be added for frequencies below 30 MHz.

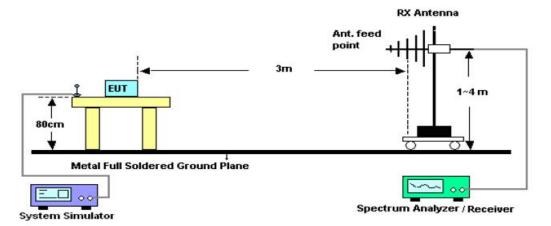
Conducted Power Test Method

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. RBW ≥ OBW.
- 3. VBW \geq 3 x RBW.
- 4. Span \geq 2 x OBW.
- 5. Sweep time \geq 10 x (number of points in sweep) x (transmission symbol period)
- 6. Detector function: Peak.
- 7. Trace: Max hold.
- 8. Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

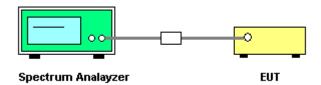


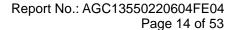
7.3. TEST SETUP

☐EIRP Test Method



⊠Conducted Power Test Method







7.4. TEST RESULT

Group A

Test Channel	Peak Power	Limit
(MHz)	(dBm)	(dBm)
657	7.934	13
660	7.858	13
662	7.812	13

Group B

Test Channel	Peak Power	Limit
(MHz)	(dBm)	(dBm)
657.5	8.083	13
660.5	7.994	13
662.5	7.976	13



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8. OCCUPIED BANDWIDTH

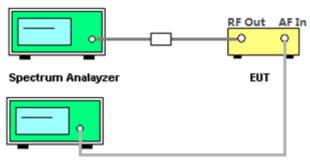
8.1. TEST LIMIT

The operating bandwidth shall not exceed 200 kHz.

8.2. MEASUREMENT PROCEDURE

- 1. For the occupied bandwidth measurements, the input signal shall be a 1 kHz tone. The level of the tone shall be set to the manufacturer's maximum rated input to the modulator.
- 2. Set the EUT Work on operation frequency.
- 3. Set Span = approximately 1.5 times the occupied 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



HP8920B

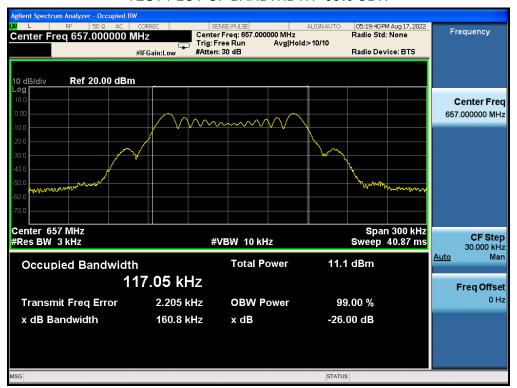
8.4. MEASUREMENT RESULTS

Group A

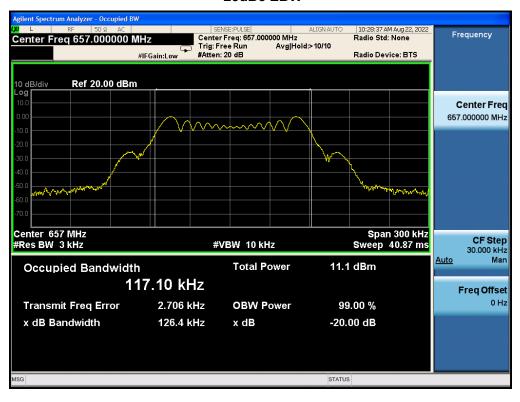
Test Channel	-20dBc EBW (kHz)	99% OBW (kHz)	Limit (kHz)
657MHz	126.4	117.05	200
660MHz	126.7	117.07	200
662MHz	126.4	117.25	200



TEST PLOT OF BANDWIDTH--99% OBW



-20dBc EBW

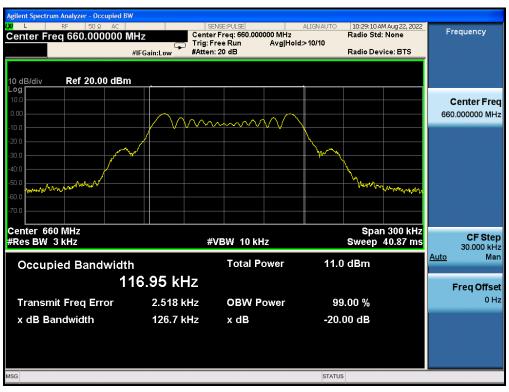




TEST PLOT OF BANDWIDTH--99% OBW



-20dBc EBW

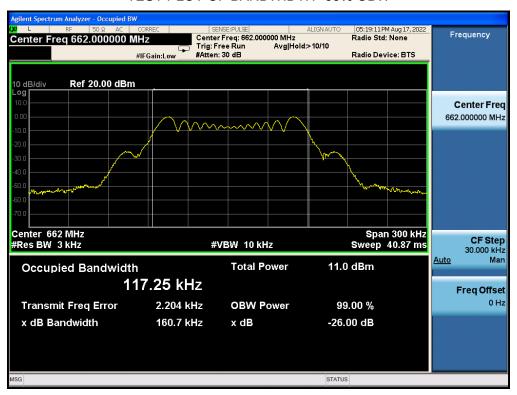


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TEST PLOT OF BANDWIDTH--99% OBW

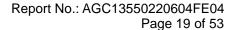


-20dBc EBW



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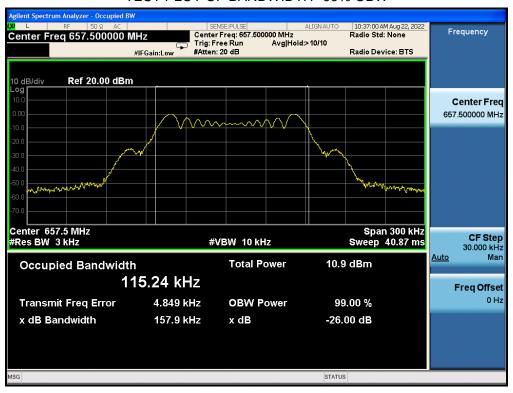




Group B

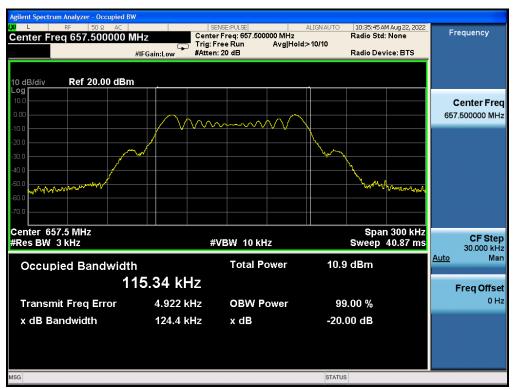
Test Channel	-20dBc EBW (kHz)	99% OBW (kHz)	Limit (kHz)
657.5MHz	124.4	115.24	200
660.5MHz	124.5	115.35	200
662.5MHz	124.4	115.17	200

TEST PLOT OF BANDWIDTH--99% OBW





-20dBc EBW

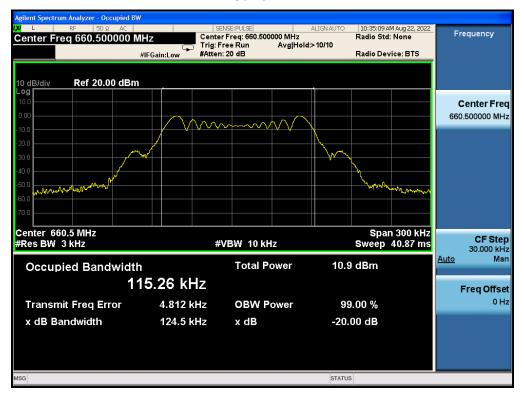


TEST PLOT OF BANDWIDTH--99% OBW

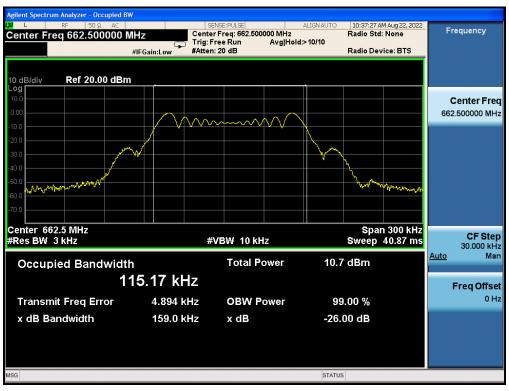




-20dBc EBW

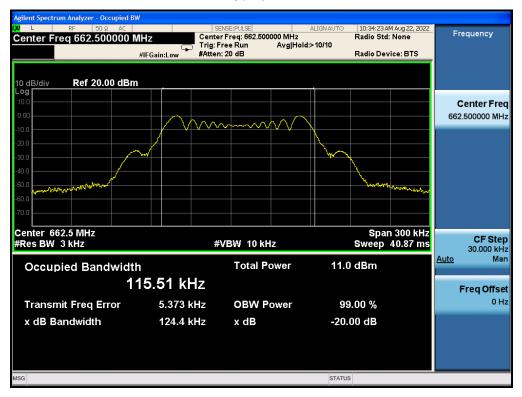


TEST PLOT OF BANDWIDTH--99% OBW





-20dBc EBW





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9. FREQUENCY STABILITY

9.1. TEST LIMIT

The frequency tolerance of the carrier signal shall be maintained within $\pm 0.005\%$ of the operating frequency over a temperature variation of -30 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.

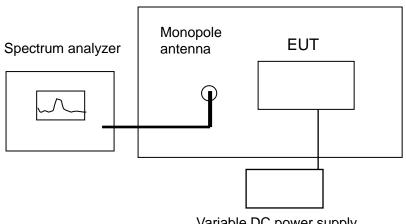
9.2. MEASUREMENT PROCEDURE

- 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 ≥ × 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 -30°C~50°C.



9.3. TEST SET-UP

Temperature Chamber



Variable DC power supply

9.4. TEST RESULT

Group A

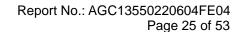
Test frequency: 657MHz

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

Voltage(V)	Measurement Frequency (MHz)	Max. Deviation (MHz)	Limit (MHz)	Conclusion
3.33	657.0114			
3.7	657.0128	0.0128	0.03	PASS
4.07	657.0121			

Temperature vs. Frequency Stability (Test Voltage: 3.7V)

Temperature	Measurement Frequency (MHz)	Max. Deviation (MHz)	Limit (MHz)	Conclusion
-30℃	657.0115			
-20 ℃	657.0126			
-10℃	657.0139			
0℃	657.0133			
10℃	657.0124	0.0139	0.03	PASS
20℃	657.0108			
30℃	657.0121			
40℃	657.0117			
50℃	657.0123			





Test frequency: 660MHz

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

Voltage(V)	Measurement Frequency (MHz)	Max. Deviation (MHz)	Limit (MHz)	Conclusion
3.33	660.0139			
3.7	660.0141	0.0141	0.03	PASS
4.07	660.0133			

Temperature vs. Frequency Stability (Test Voltage: 3.7V)

Temperature	Measurement Frequency (MHz)	Max. Deviation (MHz)	Limit (MHz)	Conclusion
-30℃	660.0143			
-20 ℃	660.0140			
-10℃	660.0137			
0℃	660.0139			
10℃	660.0147	0.0147	0.03	PASS
20℃	660.0146			
30℃	660.0130			
40 ℃	660.0138			
50 ℃	660.0134			

Test frequency: 662MHz

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

Voltage(V)	Measurement Frequency (MHz)	Max. Deviation (MHz)	Limit (MHz)	Conclusion
3.33	662.0231			
3.7	662.0233	0.0233	0.03	PASS
4.07	662.0230			

Temperature vs. Frequency Stability (Test Voltage: 3.7V)

Temperature	Measurement Frequency (MHz)	Max. Deviation (MHz)	Limit (MHz)	Conclusion
-30℃	662.0234			
-20 ℃	662.0235			
-10℃	662.0238			
0℃	662.0232			
10℃	662.0239	0.0239	0.03	PASS
20℃	662.0227			
30℃	662.0220			
40℃	662.0228			
50 ℃	662.0224			



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Group B

Test frequency: 657.5MHz

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

Voltage(V)	Measurement Frequency (MHz)	Max. Deviation (MHz)	Limit (MHz)	Conclusion
3.33	657.503			
3.7	657.506	0.006	0.03	PASS
4.07	657.505			

Temperature vs. Frequency Stability (Test Voltage: 3.7V)

Temperature	Temperature Measurement Frequency (MHz)		Limit (MHz)	Conclusion
-30℃	657.504			
-20℃	657.501			
-10℃	-10℃ 657.507			
0℃	0℃ 657.509			
10℃	10°C 657.502		0.03	PASS
20℃	20°C 657.508			
30℃	30℃ 657.511			
40℃	657.510			
50℃	657.501			

Test frequency: 660.5MHz

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

Voltage(V)	Measurement Frequency (MHz)	Max. Deviation (MHz)	Limit (MHz)	Conclusion
3.33	660.5011			
3.7	660.5013	0.0013	0.03	PASS
4.07	660.5011			

Temperature vs. Frequency Stability (Test Voltage: 3.7V)

Temperature	Temperature Measurement Frequency (MHz)		Limit (MHz)	Conclusion
-30°C	660.5014			
-20 ℃	660.5010			
-10°C	-10°C 660.5015			
0℃	0°C 660.5018 10°C 660.5004			
10℃			0.03	PASS
20℃				
30℃	30 ℃ 660.5009			
40℃	660.5007			
50℃	660.5004			



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Test frequency: 662.5MHz

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

Voltage(V)	Measurement Max. Deviation Frequency (MHz) (MHz)		Limit (MHz)	Conclusion	
3.33	662.5009				
3.7	662.5012	0.0012	0.03	PASS	
4.07	662.5011				

Temperature vs. Frequency Stability (Test Voltage: 3.7V)

Temperature	Measurement Frequency (MHz)	I I I I I I I I I I I I I I I I I I I		Conclusion
-30 ℃	662.5006			
-20 ℃	662.5004			
-10°C	-10°C 662.5008 0°C 662.5003 10°C 662.5017			
0℃				
10℃			0.03	PASS
20 ℃	20°C 662.5013			
30℃	662.5015			
40℃	662.5010			
50℃	662.5014			



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10. EMISSIONS WITHIN THE BAND AND OUTSIDE THE BAND

10.1. TEST 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).

10.2. MEASUREMENT PROCEDURE

Emission outside the band:

- 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.
- 3. 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 emission, 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(μ 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

Emission within the band:

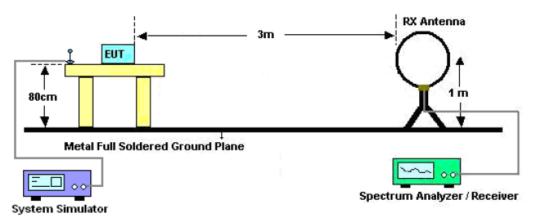
⊠Meth	od of	Measurement 1	or Analogue	Systems in	n ETSI EN 3	300 422-1	Subclass 8	3.3.1
	od of	Measurement t	or Digital Sy	stems in E7	ΓSI EN 300	422-1 Sub	class 8.3.	2



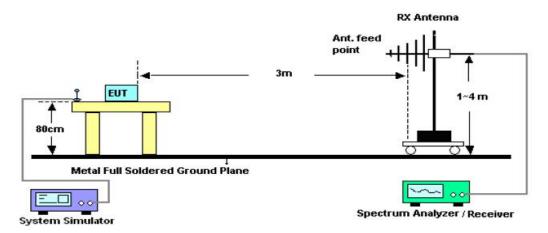
10.3. TEST SETUP

Emission outside the band

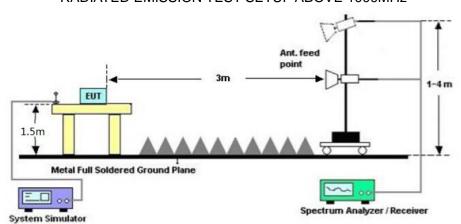
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz

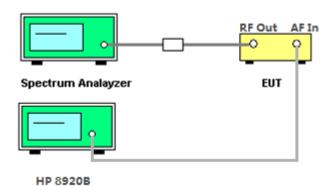


RADIATED EMISSION TEST SETUP ABOVE 1000MHz





Emission within the band

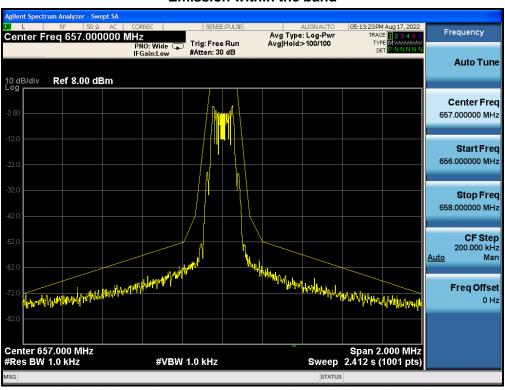


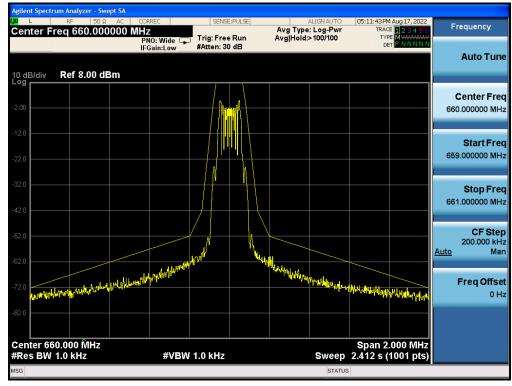


10.4. TEST RESULT

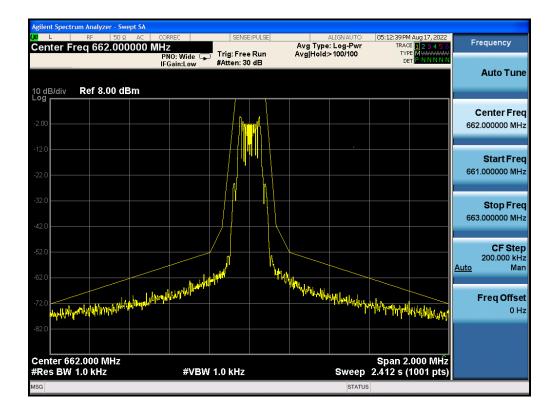
Group A

Emission within the band









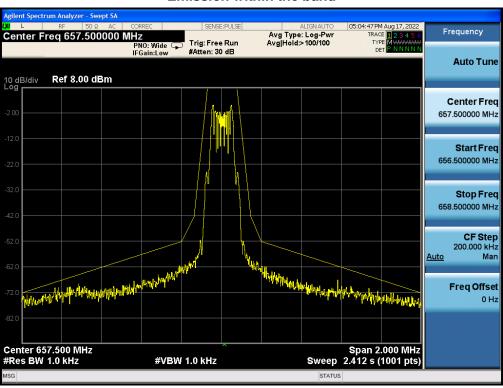
Note:

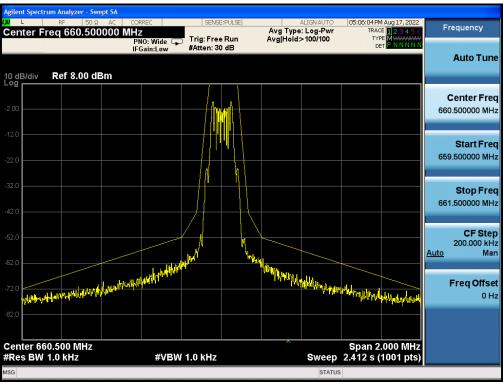
- 1. The manufacturer declared that the channel bandwidth is 200KHz.
- 2. The carrier power is the ref level, and the factor had been edited in the "Input Correction" of the Spectrum Analyzer.



Group B

Emission within the band

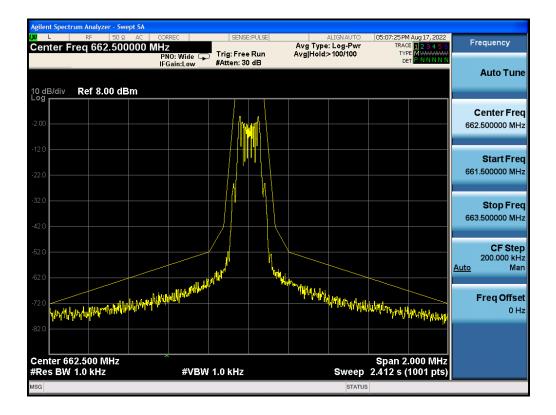




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Note:

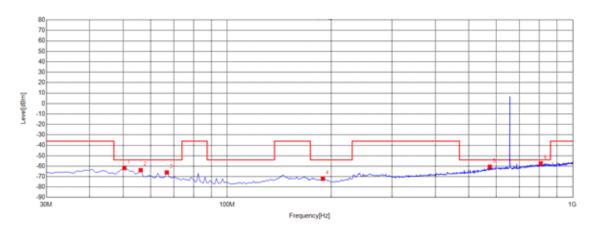
- 1. The manufacturer declared that the channel bandwidth is 200KHz.
- 2. The carrier power is the ref level, and the factor had been edited in the "Input Correction" of the Spectrum Analyzer.



Group A

CH01
Emission outside the band 30-1000MHz

EUT:	PUREMIC Wireless Microphone Q2	Model Name:	PWMAZ-Q2			
Temperature:	23.3℃	Relative Humidity:	64%			
Pressure:	986 hPa	Test Voltage:	Normal			
Test Mode:	Transmitting at 657MHz	Polarization:	Horizontal			



Freq. Reading Level Limit Margin Factor Angle NO. **Polarity** [dBm] [dBm] [dBm] [MHz] [dB] [dB] [°] Horizontal 1 50.37 -95.34 -61.79 -54.00 33.55 360 7.79 -95.70 2 56.19 -63.82 -54.00 9.82 31.88 306 Horizontal Horizontal -95.33 29.27 3 66.86 -66.06 -54.00 12.06 298 4 189.08 -100.32 -71.98 -54.00 17.98 28.34 340 Horizontal 5 575.14 -99.62 -60.65 -54.00 6.65 38.97 60 Horizontal 6 807.94 -100.81 -57.43 -54.00 3.43 43.38 35 Horizontal

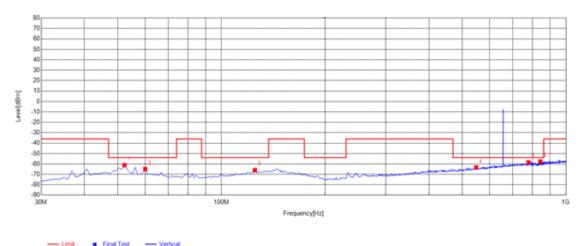
RESULT: PASS

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Final Test

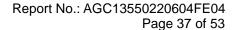


EUT:	PUREMIC Wireless Microphone Q2	Model Name:	PWMAZ-Q2
Temperature:	23.3℃	Relative Humidity:	64%
Pressure:	986 hPa	Test Voltage:	Normal
Test Mode:	Transmitting at 657MHz	Polarization:	Vertical



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	52.31	-91.37	-61.20	-54.00	7.20	30.17	267	Vertical
2	60.07	-96.31	-64.95	-54.00	10.95	31.36	343	Vertical
3	125.06	-99.37	-65.99	-54.00	11.99	33.38	89	Vertical
4	548.95	-100.84	-63.31	-54.00	9.31	37.53	250	Vertical
5	778.84	-100.51	-58.54	-54.00	4.54	41.97	284	Vertical
6	842.86	-100.40	-57.63	-54.00	3.63	42.77	199	Vertical

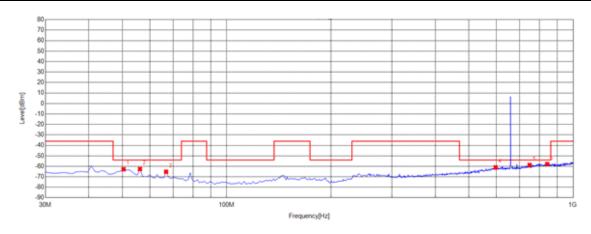
RESULT: PASS





CH02 Emission outside the band 30-1000MHz

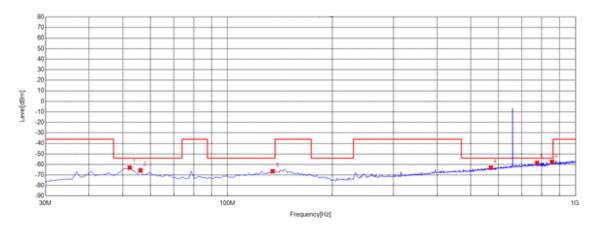
EUT:	PUREMIC Wireless Microphone	Model Name:	PWMAZ-Q2
Temperature:	Q2 23.3℃	Relative Humidity:	64%
Pressure:	986 hPa	Test Voltage:	Normal
Test Mode:	Transmitting at 660MHz	Polarization:	Horizontal



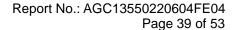
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	50.37	-96.36	-62.81	-54.00	8.81	33.55	318	Horizontal
2	56.19	-94.51	-62.63	-54.00	8.63	31.88	292	Horizontal
3	66.86	-94.46	-65.19	-54.00	11.19	29.27	318	Horizontal
4	597.45	-100.76	-61.00	-54.00	7.00	39.76	189	Horizontal
5	748.77	-100.56	-58.83	-54.00	4.83	41.73	359	Horizontal
6	841.89	-101.10	-57.88	-54.00	3.88	43.22	248	Horizontal



EUT:	PUREMIC Wireless Microphone Q2	Model Name:	PWMAZ-Q2
Temperature:	23.3℃	Relative Humidity:	64%
Pressure:	986 hPa	Test Voltage:	Normal
Test Mode:	Transmitting at 660MHz	Polarization:	Vertical



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	52.31	-93.22	-63.05	-54.00	9.05	30.17	63	Vertical
2	56.19	-96.34	-65.56	-54.00	11.56	30.78	343	Vertical
3	134.76	-100.47	-66.43	-54.00	12.43	34.04	46	Vertical
4	571.26	-101.10	-63.06	-54.00	9.06	38.04	351	Vertical
5	775.93	-100.42	-58.51	-54.00	4.51	41.91	148	Vertical
6	856.44	-100.30	-57.40	-54.00	3.40	42.90	97	Vertical

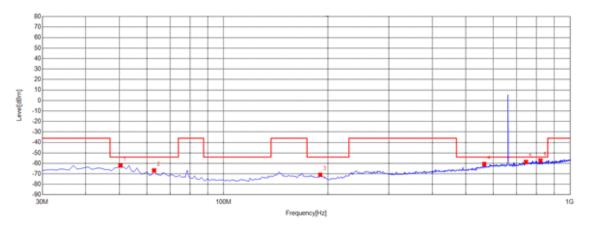




CHU3

	СПО	3		
Emission	outside the	band	30-1000	MHz

EUT:	PUREMIC Wireless Microphone Q2	Model Name:	PWMAZ-Q2
Temperature:	23.3℃	Relative Humidity:	64%
Pressure:	986 hPa	Test Voltage:	Normal
Test Mode:	Transmitting at 662MHz	Polarization:	Horizontal



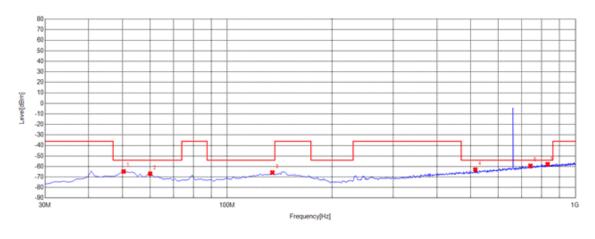
 Final Test - Horizontal

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	50.37	-95.58	-62.03	-54.00	8.03	33.55	238	Horizontal
2	62.98	-96.88	-66.76	-54.00	12.76	30.12	360	Horizontal
3	190.05	-99.13	-70.92	-54.00	16.92	28.21	195	Horizontal
4	565.44	-99.23	-60.60	-54.00	6.60	38.63	60	Horizontal
5	745.86	-100.29	-58.66	-54.00	4.66	41.63	263	Horizontal
6	821.52	-100.61	-57.29	-54.00	3.29	43.32	360	Horizontal

RESULT: PASS



EUT:	PUREMIC Wireless Microphone Q2	Model Name:	PWMAZ-Q2
Temperature:	23.3℃	Relative Humidity:	64%
Pressure:	986 hPa	Test Voltage:	Normal
Test Mode:	Transmitting at 662MHz	Polarization:	Vertical



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	50.37	-94.63	-64.76	-54.00	10.76	29.87	326	Vertical
2	60.07	-98.23	-66.87	-54.00	12.87	31.36	0	Vertical
3	134.76	-99.80	-65.76	-54.00	11.76	34.04	4	Vertical
4	515.97	-99.69	-62.93	-54.00	8.93	36.76	334	Vertical
5	742.95	-100.65	-59.36	-54.00	5.36	41.29	0	Vertical
6	832.19	-100.52	-57.85	-54.00	3.85	42.67	199	Vertical

Note:

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

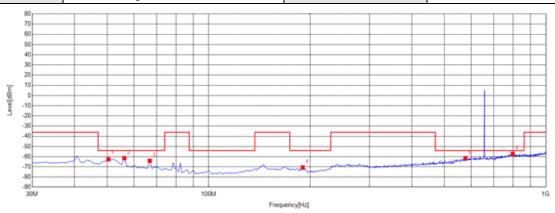
The "Factor" value can be calculated automatically by software of measurement system.



Group B

CH01
Emission outside the band 30-1000MHz

EUT:	PUREMIC Wireless Microphone Q2	Model Name:	PWMAZ-Q2
Temperature:	23.3℃	Relative Humidity:	64%
Pressure:	986 hPa	Test Voltage:	Normal
Test Mode:	Transmitting at 657.5MHz	Polarization:	Horizontal



- Limit # Final Test - Horizonta

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	50.37	-96.15	-62.60	-54.00	8.60	33.55	331	Horizontal
2	56.19	-93.39	-61.51	-54.00	7.51	31.88	280	Horizontal
3	66.86	-93.25	-63.98	-54.00	9.98	29.27	162	Horizontal
4	190.05	-98.76	-70.55	-54.00	16.55	28.21	111	Horizontal
5	577.08	-100.60	-61.56	-54.00	7.56	39.04	136	Horizontal
6	797.27	-100.46	-57.13	-54.00	3.13	43.33	144	Horizontal

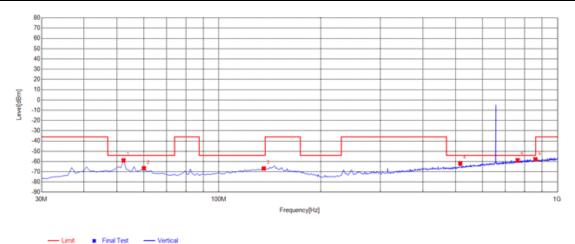
RESULT: PASS

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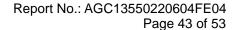
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/



EUT:	PUREMIC Wireless Microphone Q2	Model Name:	PWMAZ-Q2
Temperature:	23.3℃	Relative Humidity:	64%
Pressure:	986 hPa	Test Voltage:	Normal
Test Mode:	Transmitting at 657.5MHz	Polarization:	Vertical



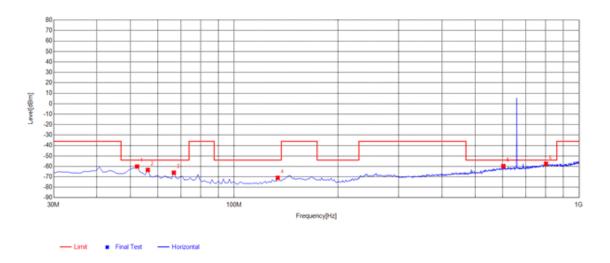
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	52.31	-89.05	-58.88	-54.00	4.88	30.17	46	Vertical
2	60.07	-97.91	-66.55	-54.00	12.55	31.36	147	Vertical
3	135.73	-100.88	-66.78	-54.00	12.78	34.10	266	Vertical
4	515.97	-98.55	-61.79	-54.00	7.79	36.76	20	Vertical
5	762.35	-100.43	-58.78	-54.00	4.78	41.65	114	Vertical
6	860.32	-100.73	-57.79	-54.00	3.79	42.94	4	Vertical





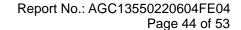
CH02 Emission outside the band 30-1000MHz

EUT:	PUREMIC Wireless Microphone Q2	Model Name:	PWMAZ-Q2				
Temperature:	23.3℃	Relative Humidity:	64%				
Pressure:	986 hPa	Test Voltage:	Normal				
Test Mode:	Transmitting at 660.5MHz	Polarization:	Horizontal				



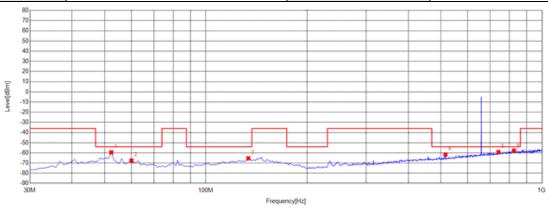
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	52.31	-93.11	-60.12	-54.00	6.12	32.99	111	Horizontal
2	56.19	-95.29	-63.41	-54.00	9.41	31.88	9	Horizontal
3	66.86	-95.27	-66.00	-54.00	12.00	29.27	77	Horizontal
4	133.79	-99.12	-70.94	-54.00	16.94	28.18	360	Horizontal
5	603.27	-99.57	-59.71	-54.00	5.71	39.86	60	Horizontal
6	802.12	-100.94	-57.53	-54.00	3.53	43.41	26	Horizontal

RESULT: PASS



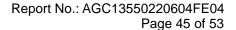


EUT:	PUREMIC Wireless Microphone Q2	Model Name:	PWMAZ-Q2
Temperature:	23.3℃	Relative Humidity:	64%
Pressure:	986 hPa	Test Voltage:	Normal
Test Mode:	Transmitting at 660.5MHz	Polarization:	Vertical



- Limit	 Final Test 	Vertica

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	52.31	-89.72	-59.55	-54.00	5.55	30.17	351	Vertical
2	60.07	-98.98	-67.62	-54.00	13.62	31.36	121	Vertical
3	133.79	-99.35	-65.38	-54.00	11.38	33.97	148	Vertical
4	515.97	-98.46	-61.70	-54.00	7.70	36.76	351	Vertical
5	741.98	-100.45	-59.18	-54.00	5.18	41.27	249	Vertical
6	825.4	-100.39	-57.78	-54.00	3.78	42.61	28	Vertical

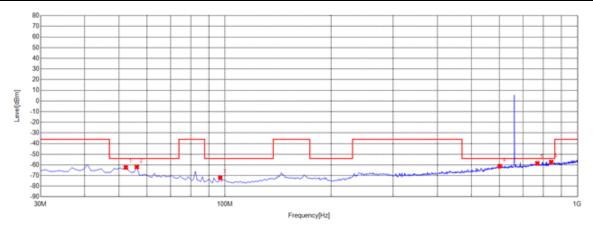




CH03

Emission	outoido	tha	hand	20 1000MH	_
Emission	outside	tne	pand	30-1000MH	Z

EUT:	PUREMIC Wireless Microphone Q2	Model Name:	PWMAZ-Q2
Temperature:	23.3℃	Relative Humidity:	64%
Pressure:	986 hPa	Test Voltage:	Normal
Test Mode:	Transmitting at 662.5MHz	Polarization:	Horizontal



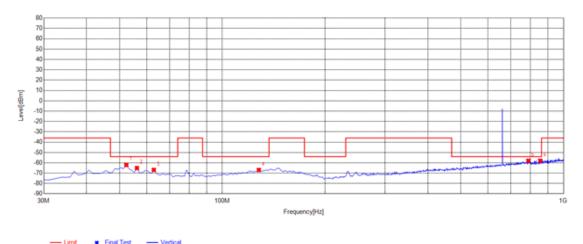
--- Limit # Final Test ---- Horizontal

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	52.31	-95.37	-62.38	-54.00	8.38	32.99	69	Horizontal
2	56.19	-93.81	-61.93	-54.00	7.93	31.88	266	Horizontal
3	96.93	-96.81	-72.10	-54.00	18.10	24.71	26	Horizontal
4	601.33	-101.11	-61.26	-54.00	7.26	39.85	95	Horizontal
5	769.14	-100.96	-58.56	-54.00	4.56	42.40	43	Horizontal
6	841.89	-100.52	-57.30	-54.00	3.30	43.22	360	Horizontal

RESULT: PASS



EUT:	PUREMIC Wireless Microphone Q2	Model Name:	PWMAZ-Q2
Temperature:	23.3℃	Relative Humidity:	64%
Pressure:	986 hPa	Test Voltage:	Normal
Test Mode:	Transmitting at 662.5MHz	Polarization:	Vertical



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	52.31	-92.25	-62.08	-54.00	8.08	30.17	267	Vertical
2	56.19	-95.86	-65.08	-54.00	11.08	30.78	334	Vertical
3	62.98	-97.19	-66.85	-54.00	12.85	30.34	156	Vertical
4	127.97	-100.52	-66.94	-54.00	12.94	33.58	334	Vertical
5	788.54	-100.12	-57.97	-54.00	3.97	42.15	13	Vertical
6	854.5	-100.82	-57.94	-54.00	3.94	42.88	0	Vertical

Note:

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

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



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Group A

Emission outside the band above 1000MHz

EUT:	PUREMIC Wireless Microphone Q2	Model Name:	PWMAZ-Q2
Temperature:	23.3℃	Relative Humidity:	64%
Pressure:	986 hPa	Test Voltage:	Normal
Test Mode:	Transmitting at 657MHz	Polarization:	Horizontal/Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	value Type
1314.000	-29.31	-4.02	-33.33	-30	-3.33	Horizontal
1314.000	-36.51	-4.02	-40.53	-30	-10.53	Vertical
1971.000	-31.61	-1.95	-33.56	-30	-3.56	Horizontal
1971.000	-35.84	-1.95	-37.79	-30	-7.79	Vertical
Remark:						
Factor = Ante	enna Factor + Ca	able Loss – F	Pre-amplifier.			

EUT:	PUREMIC Wireless Microphone Q2	Model Name:	PWMAZ-Q2
Temperature:	23.3℃	Relative Humidity:	64%
Pressure:	986 hPa	Test Voltage:	Normal
Test Mode:	Transmitting at 660MHz	Polarization:	Horizontal/Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	value Type
1320.000	-29.22	-4.02	-33.24	-30	-3.24	Horizontal
1320.000	-35.81	-4.02	-39.83	-30	-9.83	Vertical
1980.000	-31.25	-1.95	-33.2	-30	-3.2	Horizontal
1980.000	-35.91	-1.95	-37.86	-30	-7.86	Vertical
Remark:						
-actor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT:	PUREMIC Wireless Microphone Q2	Model Name:	PWMAZ-Q2
Temperature:	23.3℃	Relative Humidity:	64%
Pressure:	986 hPa	Test Voltage:	Normal
Test Mode:	Transmitting at 662MHz	Polarization:	Horizontal/Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	value Type
1324.000	-29.06	-4.02	-33.08	-30	-3.08	Horizontal
1324.000	-36.28	-4.02	-40.3	-30	-10.3	Vertical
1986.000	-31.57	-1.95	-33.52	-30	-3.52	Horizontal
1986.000	-35.62	-1.95	-37.57	-30	-7.57	Vertical
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RESULT: PASS

Note:

Other emissions from 1G to 6 GHz are considered as ambient noise. No recording in the test report. Factor = Antenna Factor + Cable loss - Amplifier gain, Margin=Emission Level-Limit.

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



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Group B

Emission outside the band above 1000MHz

EUT:	PUREMIC Wireless Microphone Q2	Model Name:	PWMAZ-Q2
Temperature:	23.3℃	Relative Humidity:	64%
Pressure:	986 hPa	Test Voltage:	Normal
Test Mode:	Transmitting at 657.5MHz	Polarization:	Horizontal/Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	value Type
1315.000	-29.83	-4.02	-33.85	-30	-3.85	Horizontal
1315.000	-36.51	-4.02	-40.53	-30	-10.53	Vertical
1972.500	-31.34	-1.95	-33.29	-30	-3.29	Horizontal
1972.500	-35.73	-1.95	-37.68	-30	-7.68	Vertical
lemark:						

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT:	PUREMIC Wireless Microphone Q2	Model Name:	PWMAZ-Q2
Temperature:	23.3℃	Relative Humidity:	64%
Pressure:	986 hPa	Test Voltage:	Normal
Test Mode:	Transmitting at 660.5MHz	Polarization:	Horizontal/Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	value Type
1321.000	-29.43	-4.02	-33.45	-30	-3.45	Horizontal
1321.000	-35.82	-4.02	-39.84	-30	-9.84	Vertical
1981.500	-31.02	-1.95	-32.97	-30	-2.97	Horizontal
1981.500	-35.81	-1.95	-37.76	-30	-7.76	Vertical
Remark:						

Factor = Antenna Factor + Cable Loss - Pre-amplifier.



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EUT:	PUREMIC Wireless Microphone Q2	Model Name:	PWMAZ-Q2
Temperature:	23.3℃	Relative Humidity:	64%
Pressure:	986 hPa	Test Voltage:	Normal
Test Mode:	Transmitting at 662.5MHz	Polarization:	Horizontal/Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	value Type
1325.000	-29.09	-4.02	-33.11	-30	-3.11	Horizontal
1325.000	-35.64	-4.02	-39.66	-30	-9.66	Vertical
1987.500	-32.32	-1.95	-34.27	-30	-4.27	Horizontal
1987.500	-35.83	-1.95	-37.78	-30	-7.78	Vertical
Remark:			•		•	•
Factor = Ante	enna Factor + C	able Loss – F	Pre-amplifier.			

RESULT: PASS

Note:

Other emissions from 1G to 6 GHz are considered as ambient noise. No recording in the test report. Factor = Antenna Factor + Cable loss - Amplifier gain, Margin=Emission Level-Limit.

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



11. LINE CONDUCTED EMISSION TEST

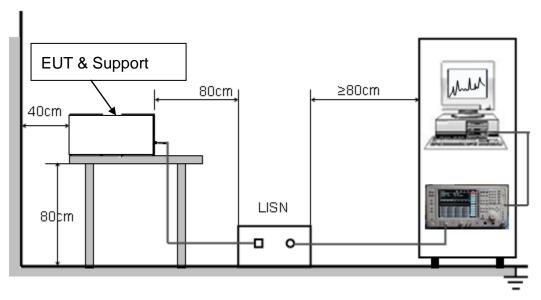
11.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Francis	Maximum RF Line Voltage				
Frequency	Q.P. (dBμV)	Average (dBμV)			
150kHz~500kHz	66-56	56-46			
500kHz~5MHz	56	46			
5MHz~30MHz	60	50			

Note:

- 1. The lower limit shall apply at the transition frequency.
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

11.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST





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11.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When 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 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipment received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC 5V power from adapter which received AC120V/60Hz power from a LISN.
- 6. The 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.
- 9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

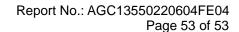
11.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.

11.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

N/A

Note: The wireless function does not work when charging.





APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Refer to the Report No.: AGC13550220604AP01

APPENDIX B: PHOTOGRAPHS OF EUT

Refer to the Report No.: AGC13550220604AP02

----END OF REPORT----



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