

# **FCC Test Report**

Report No.: AGC01110230329FE02

**FCC ID** : 2AOKB-A3993RC

**APPLICATION PURPOSE**: Original Equipment

**PRODUCT DESIGNATION**: Wireless Headphone

**BRAND NAME**: soundcore

MODEL NAME : A3993RC, A3983RC

**APPLICANT**: Anker Innovations Limited

**DATE OF ISSUE** : Apr. 06, 2023

**STANDARD(S)** : FCC Part 15.247

**REPORT VERSION**: V1.0

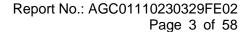
Attestation of Global Compliance (Shenzhen) Co., Ltd



Page 2 of 58

# REPORT REVISE RECORD

Report Versio	n Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Apr. 06, 2023	Valid	Initial Release





# **TABLE OF CONTENTS**

1. VERIFICATION OF COMPLIANCE	5
2. GENERAL INFORMATION	6
2.1. PRODUCT DESCRIPTION	6
2.2. TABLE OF CARRIER FREQUENCYS	6
2.3. RELATED SUBMITTAL(S)/GRANT(S)	7
2.4. TEST METHODOLOGY	7
2.5. SPECIAL ACCESSORIES	7
2.6. EQUIPMENT MODIFICATIONS	
2.7. ANTENNA REQUIREMENT	7
3. MEASUREMENT UNCERTAINTY	8
4. DESCRIPTION OF TEST MODES	g
5. SYSTEM TEST CONFIGURATION	10
5.1. CONFIGURATION OF TESTED SYSTEM	10
5.2. EQUIPMENT USED IN TESTED SYSTEM	10
5.3. SUMMARY OF TEST RESULTS	10
6. TEST FACILITY	11
7. PEAK OUTPUT POWER	12
7.1. MEASUREMENT PROCEDURE	12
7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	12
7.3. LIMITS AND MEASUREMENT RESULT	13
8. BANDWIDTH	17
8.1. MEASUREMENT PROCEDURE	17
8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	17
8.3. LIMITS AND MEASUREMENT RESULTS	17
9. CONDUCTED SPURIOUS EMISSION	24
9.1. MEASUREMENT PROCEDURE	24
9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	
9.3. MEASUREMENT EQUIPMENT USED	
9.4. LIMITS AND MEASUREMENT RESULT	24
10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY	licated Testing/Inspection



Page 4 of 58

10.1. MEASUREMENT PROCEDURE	36
10.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	
10.3. MEASUREMENT EQUIPMENT USED	
10.4. LIMITS AND MEASUREMENT RESULT	36
11. RADIATED EMISSION	40
11.1. MEASUREMENT PROCEDURE	40
11.2. TEST SETUP	41
11.3. LIMITS AND MEASUREMENT RESULT	42
11.4. TEST RESULT	42
12. LINE CONDUCTED EMISSION TEST	56
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST	56
12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST	56
12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST	57
12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST	57
12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST	57
APPENDIX A: PHOTOGRAPHS OF TEST SETUP	58
APPENDIX B: PHOTOGRAPHS OF EUT	58



Page 5 of 58

# 1. VERIFICATION OF COMPLIANCE

Applicant	Anker Innovations Limited
Address	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hongkong
Manufacturer	Anker Innovations Limited
Address	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hongkong
Product Designation	Wireless Headphone
Brand Name	soundcore
Test Model	A3993RC
Series Model	A3983RC
<b>Declaration of Difference</b>	All the same except for the model name and color.
Date of receipt of test item	Mar. 16, 2023
Date of test	Mar. 16, 2023 to Apr. 06, 2023
Deviation	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-US-BLE/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 15.247.

Alan Duan
(Project Engineer)

Reviewed By

Calvin Liu
(Reviewer)

Apr. 06, 2023



Page 6 of 58

# 2. GENERAL INFORMATION

# 2.1. PRODUCT DESCRIPTION

The EUT is designed as a "Wireless Headphone". It is designed by way of utilizing the GFSK technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480GHz
RF Output Power	GFSK 1Mbps: 8.840dBm (Max) GFSK 2Mbps: 6.464dBm (Max)
Bluetooth Version	V5.2
Modulation	BR □GFSK, EDR □π /4-DQPSK, □8DPSK BLE □GFSK 1Mbps □GFSK 2Mbps
Number of channels	40 Channels
Antenna Designation	FPC Antenna (Comply with requirements of the FCC part 15.203)
Antenna Gain	-1.38dBi
Hardware Version	V1.2
Software Version	V30.12
Power Supply	DC 3.85V by battery

#### 2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
	0	2402 MHz
	1	2404 MHz
2400~2483.5MHz	:	:
	38	2478 MHz
	39	2480 MHz



Page 7 of 58

# 2.3. RELATED SUBMITTAL(S)/GRANT(S)

This submittal(s) (test report) is intended for **FCC ID: 2AOKB-A3993RC** filing to comply with the FCC Part 15.247 requirements.

#### 2.4. 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.

#### 2.5. SPECIAL ACCESSORIES

Refer to section 5.2.

#### 2.6. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

#### 2.7. 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.

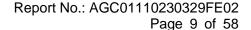


Page 8 of 58

# 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 RF power density, conducted	$U_c = \pm 2.6 \text{ dB}$
Uncertainty of spurious emissions, conducted	$U_c = \pm 2.7 \%$
Uncertainty of Occupied Channel Bandwidth	U <sub>c</sub> = ±2 %



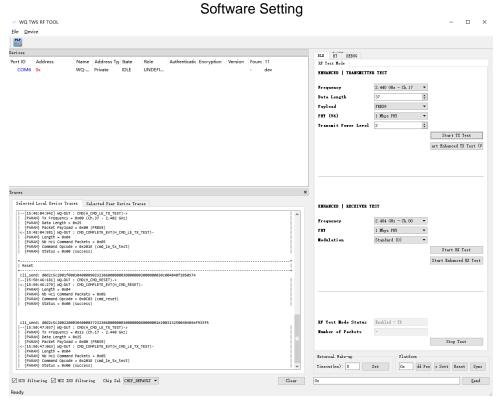


#### 4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel TX
2	Middle channel TX
3	High channel TX

#### Note:

- 1. Only the result of the worst case was recorded in the report, if no other cases.
- 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
- 3. For Conducted Test method, a temporary antenna connector is provided by the manufacture.





Page 10 of 58

# 5. SYSTEM TEST CONFIGURATION

#### **5.1. CONFIGURATION OF TESTED SYSTEM**

Radiated Emission Configure:

EUT	

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

Item	Equipment	Model No.	ID or Specification	Remark
1	Wireless Headphone	A3993RC	2AOKB-A3993RC	EUT

#### 5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
15.247 (b)(3)	Peak Output Power	Compliant
15.247 (a)(2)	6 dB Bandwidth	Compliant
15.247 (d)	Conducted Spurious Emission	Compliant
15.247 (e)	Maximum Conducted Output Power Density	Compliant
15.209	Radiated Emission	Compliant
15.207	Conducted Emission	Not applicable

Note: The BT function cannot transmit when charging.



Page 11 of 58

# **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 CONDUCTED EMISSION TEST**

1201 24011 111211 01 0011200122 21111001011 1201					
Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Feb. 18, 2023	Feb. 17, 2024
LISN	R&S	ESH2-Z5	100086	Jun. 08, 2022	Jun. 07, 2023
Test software	R&S	ES-K1	Ver V1.71	N/A	N/A

#### **TEST EQUIPMENT OF RADIATED EMISSION TEST**

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Test Receiver	R&S	ESCI	10096	Feb. 18, 2023	Feb. 17, 2024
EXA Signal Analyzer	Agilent	N9010A	MY53470504	Aug. 04, 2022	Aug. 03, 2023
Signal Analyzer	Aglient	N9020A	MY52090123	Aug. 04, 2022	Aug. 03, 2023
2.4GHz Filter	EM Electronics	N/A	N/A	Mar. 18, 2022	Mar. 19, 2024
Attenuator	ZHINAN	E-002	N/A	Aug. 04, 2022	Aug. 03, 2024
Horn Antenna	SCHWARZBEC	BBHA9170	768	Oct. 31, 2021	Oct. 30, 2023
Active Loop Antenna (9K-30Mhz)	ZHINAN	ZN30900C	18051	Mar. 12, 2022	Mar. 11, 2024
Double-Ridged Waveguide Horn	ETS	3117	00034609	Apr. 23, 2021	Apr. 22, 2023
Double-Ridged Waveguide Horn	ETS	3117	00154520	Sep. 06, 2021	Sep. 05, 2023
Preamplifier Assembly	ETS	3117PA	00225134	Sep. 01, 2022	Sep. 02, 2024
Wideband Antenna	SCHWARZBECK	VULB9168	VULB9168-49 4	Jan. 05, 2023	Jan. 04, 2025
Test Software	Tonscend	JS32-RE	Ver.2.5	N/A	N/A



Page 12 of 58

# 7. PEAK OUTPUT POWER

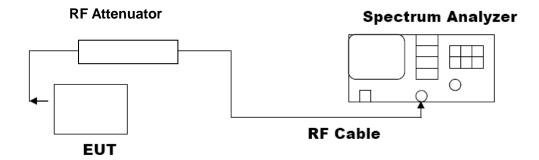
#### 7.1. MEASUREMENT PROCEDURE

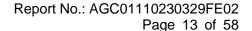
For peak power test:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. RBW ≥ DTS bandwidth
- 3. VBW≥3\*RBW.
- 4. SPAN≥VBW.
- 5. Sweep: Auto.
- 6. Detector function: Peak.
- 7. Trace: Max hold.

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.

# 7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) PEAK POWER TEST SETUP



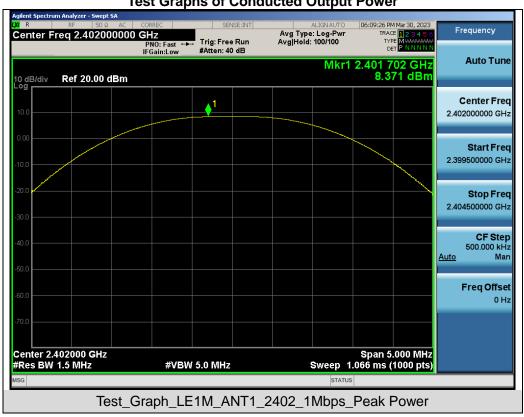


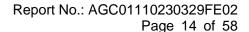


#### 7.3. LIMITS AND MEASUREMENT RESULT

	1.0. Elimit O AND MEAGOREMENT REGGET					
Test Data of Conducted Output Power						
Test Mode	Test Channel (MHz)	Peak Power (dBm)	Limits (dBm)	Pass or Fail		
	2402	8.371	≤30	Pass		
GFSK 1M	2440	8.840	≤30	Pass		
	2480	8.464	≤30	Pass		
GFSK 2M	2402	3.402	≤30	Pass		
	2440	6.464	≤30	Pass		
	2480	6.163	≤30	Pass		

**Test Graphs of Conducted Output Power** 

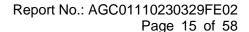








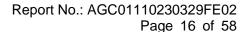


















Page 17 of 58

#### 8. BANDWIDTH

#### 8.1. MEASUREMENT PROCEDURE

#### 6dB bandwidth:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 kHz, VBW ≥ 3×RBW.
- 4. Set SPA Trace 1 Max hold, then View.

#### Occupied bandwidth:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hoping 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.

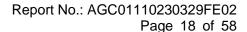
**Note:** The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

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

The same as described in section 7.2.

#### 8.3. LIMITS AND MEASUREMENT RESULTS

Test Data of Occupied Bandwidth and DTS Bandwidth					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-6dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
GFSK 1M	2402	1.018	0.683	≥0.5	Pass
	2440	1.030	0.669	≥0.5	Pass
	2480	1.030	0.666	≥0.5	Pass
GFSK 2M	2402	1.841	1.172	≥0.5	Pass
	2440	1.949	1.169	≥0.5	Pass
	2480	1.948	1.168	≥0.5	Pass



Man

Freq Offset



**Test Graphs of Occupied Bandwidth** 06:09:14 PM Mar 30, 2023 Radio Std: None Center Freq: 2.402000000 GHz Trig: Free Run Avg|Hol #Atten: 30 dB Frequency Center Freq 2.402000000 GHz AvalHold:>10/10 #IFGain:Low Radio Device: BTS Ref 30.00 dBm Center Freq 2.402000000 GHz Span 3 MHz Sweep 4.133 ms Center 2.402 GHz #Res BW 30 kHz CF Step 300.000 kHz **#VBW 100 kHz** Mar **Total Power** 13.5 dBm Occupied Bandwidth 1.0183 MHz Freq Offset 0 Hz 13.710 kHz 99.00 % **Transmit Freq Error OBW Power** -26.00 dB x dB Bandwidth 1.253 MHz x dB STATUS Test\_Graph\_LE1M\_ANT1\_2402\_1Mbps\_OBW 05:40:30 PM Mar 29, 2023 Radio Std: None Frequency Center Freq: 2.440000000 GHz
Trig: Free Run Avg|Ho Center Freg 2.440000000 GHz Avg|Hold:>10/10 #IFGain:Low Radio Device: BTS Ref 30.00 dBm Center Freq 2.440000000 GHz Center 2.44 GHz #Res BW 30 kHz Span 3 MHz Sweep 4.133 ms CF Step 300.000 kHz **#VBW 100 kHz** 

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Test\_Graph\_LE1M\_ANT1\_2440\_1Mbps\_OBW

**Total Power** 

**OBW Power** 

x dB

14.8 dBm

99.00 %

-26.00 dB

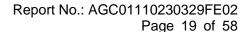
Occupied Bandwidth

Transmit Freq Error x dB Bandwidth

1.0298 MHz

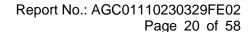
10.988 kHz

1.270 MHz



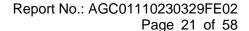












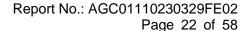


Test Graphs of DTS Bandwidth

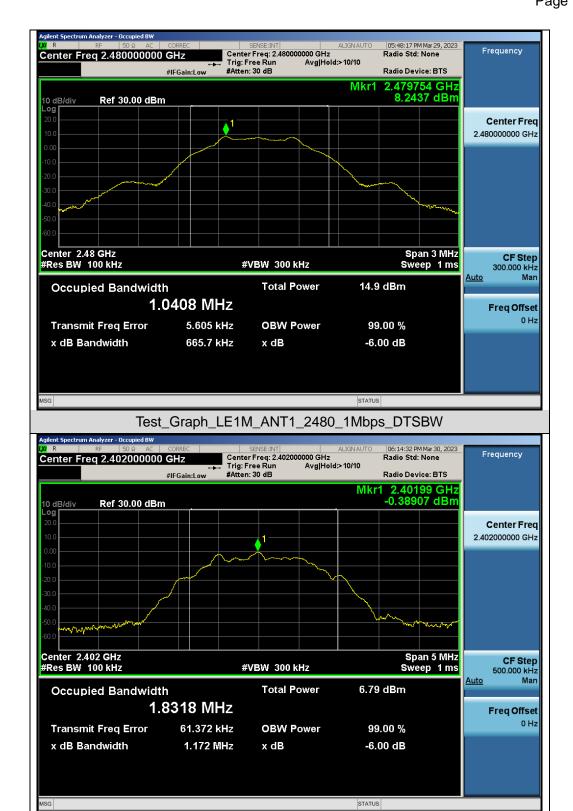


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Web: http://www.agccert.com/







Test\_Graph\_LE2M\_ANT1\_2402\_2Mbps\_DTSBW







Test\_Graph\_LE2M\_ANT1\_2480\_2Mbps\_DTSBW

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



Page 24 of 58

# 9. CONDUCTED SPURIOUS EMISSION

#### 9.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

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

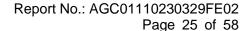
The same as described in section 7.2.

#### 9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

#### 9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT					
AParal In I have	Measurement Result				
Applicable Limits	Test Data	Criteria			
In any 100 kHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power.	At least -20dBc than the reference level	PASS			





**Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands** 



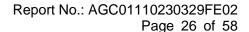
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Test\_Graph\_LE1M\_ANT1\_2402\_1Mbps\_Lower Band Emissions

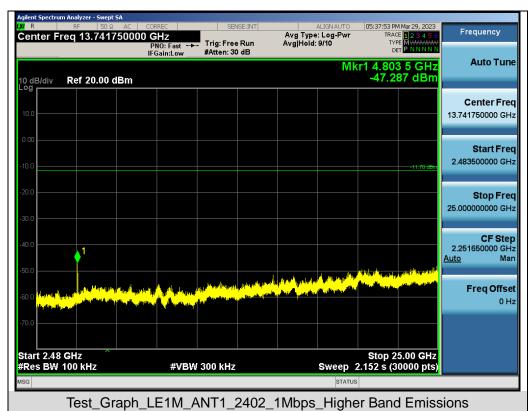
#VBW 300 kHz

Stop 2.390 GHz Sweep 226.0 ms (30000 pts)

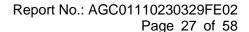
Start 30 MHz #Res BW 100 kHz



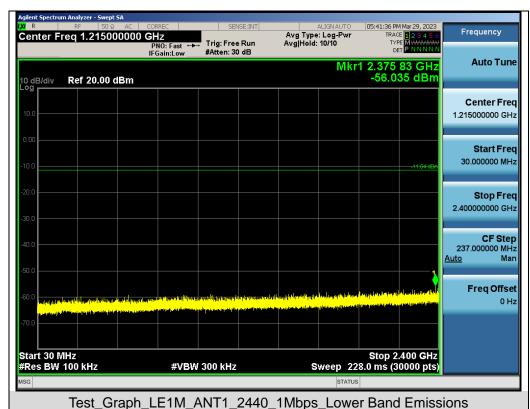




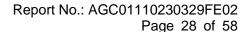
05:41:20 PM Mar 29, 2023 Avg Type: Log-Pwr Avg|Hold: 10/10 Frequency Center Freq 2.440000000 GHz Trig: Free Run #Atten: 30 dB PNO: Wide →→ IFGain:Low **Auto Tune** Mkr1 2.439 741 0 GHz 8.364 dBm Ref 20.00 dBm Center Freq 1 2.440000000 GHz Start Freq 2.438500000 GHz Stop Frea 2.441500000 GHz **CF Step** 300,000 kHz Auto Man Freq Offset 0 Hz Center 2.440000 GHz #Res BW 100 kHz Span 3.000 MHz Sweep 2.000 ms (30000 pts) #VBW 300 kHz Test\_Graph\_LE1M\_ANT1\_2440\_1Mbps\_Reference Level





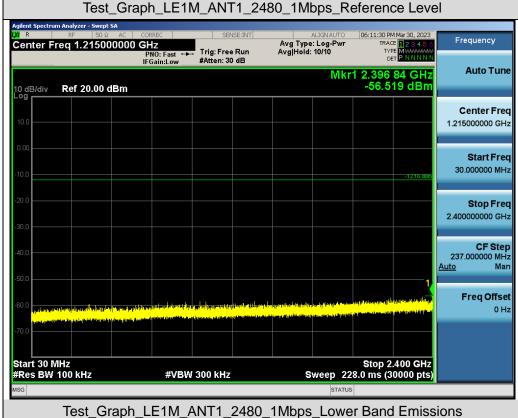


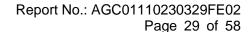




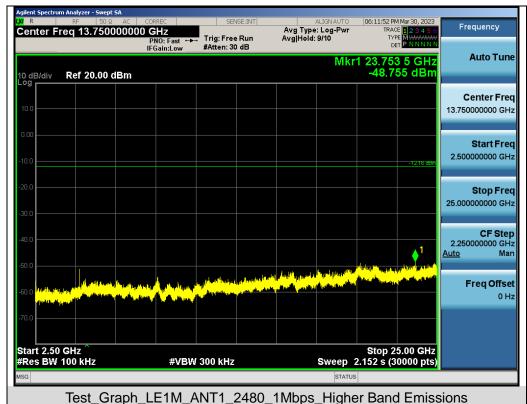




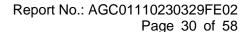




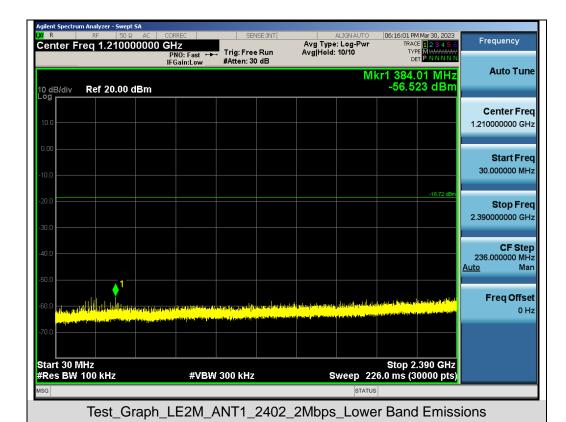








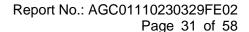




06:16:23 PM Mar 30, 2023 Avg Type: Log-Pwr Avg|Hold: 9/10 TRACE 1 2 3 4 5
TYPE M WWW. Frequency Center Freq 13.741750000 GHz Trig: Free Run #Atten: 30 dB PNO: Fast IFGain:Low **Auto Tune** Mkr1 23.561 1 GHz -49.062 dBm 10 dB/div Ref 20.00 dBm Center Freq 13.741750000 GHz Start Freq 2.483500000 GHz Stop Frea 25.000000000 GHz **CF Step** 2.251650000 GHz Man Auto Freq Offset 0 Hz Start 2.48 GHz #Res BW 100 kHz Stop 25.00 GHz Sweep 2.152 s (30000 pts)

Test\_Graph\_LE2M\_ANT1\_2402\_2Mbps\_Higher Band Emissions

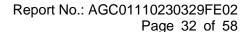
#VBW 300 kHz



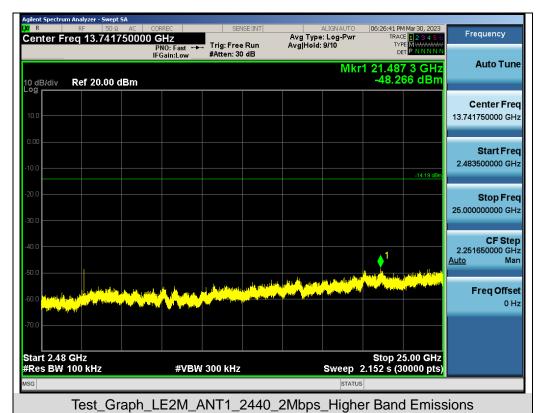




06:26:18 PM Mar 30, 2023 Avg Type: Log-Pwr Avg|Hold: 10/10 Frequency Center Freq 1.215000000 GHz Trig: Free Run #Atten: 30 dB PNO: Fast IFGain:Low **Auto Tune** Mkr1 2.263 88 GHz -57.027 dBm 10 dB/div Ref 20.00 dBm Center Freq 1.215000000 GHz Start Freq 30.000000 MHz -14.19 d Stop Frea 2.400000000 GHz **CF Step** 237.000000 MHz Man Freq Offset 0 Hz Start 30 MHz #Res BW 100 kHz Stop 2.400 GHz Sweep 228.0 ms (30000 pts) #VBW 300 kHz Test\_Graph\_LE2M\_ANT1\_2440\_2Mbps\_Lower Band Emissions

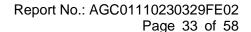




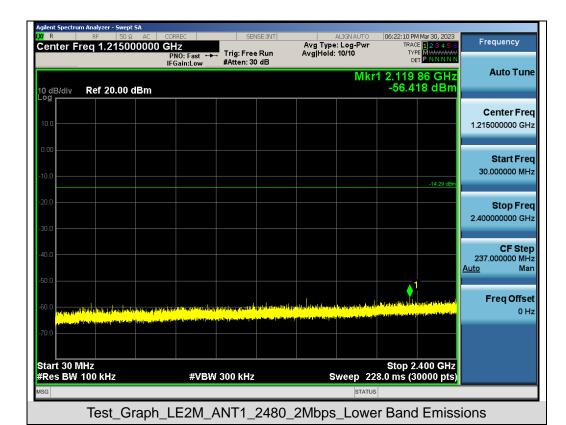


06:21:54 PM Mar 30, 2023 Avg Type: Log-Pwr Avg|Hold: 10/10 Frequency Center Freq 2.480000000 GHz Trig: Free Run #Atten: 30 dB PNO: Wide →→ IFGain:Low **Auto Tune** Mkr1 2.479 511 23 GHz 5.715 dBm 10 dB/div Ref 20.00 dBm Center Freq 2.480000000 GHz Start Freq 2.477500000 GHz Stop Frea 2.482500000 GHz **CF Step** 500,000 kHz Man Auto Freq Offset 0 Hz Center 2.480000 GHz #Res BW 100 kHz Span 5.000 MHz Sweep 2.000 ms (30000 pts) #VBW 300 kHz

Test\_Graph\_LE2M\_ANT1\_2480\_2Mbps\_Reference Level





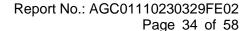




Test\_Graph\_LE2M\_ANT1\_2480\_2Mbps\_Higher Band Emissions

#VBW 300 kHz

Stop 25.00 GHz Sweep 2.152 s (30000 pts)

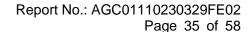




Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands 38:20 PM Mar 29, 2023 Frequency Center Freq 2.398500000 GHz Avg Type: Log-Pwr Avg|Hold: 100/100 Trig: Free Run #Atten: 30 dB **Auto Tune** Mkr2 2.400 000 0 GHz -44.777 dBm Ref 20.00 dBm Center Freq 2.398500000 GHz Start Freq 2.390000000 GHz 2.407000000 GHz **CF Step** 1.700000 MHz Start 2.390000 GHz #Res BW 100 kHz Stop 2.407000 GHz Sweep 2.000 ms (30000 pts) **#VBW** 300 kHz Man FUNCTION FUNCTION WIDTH 8.384 dBm -44.777 dBm Freq Offset 0 Hz Test\_Graph\_LE1M\_ANT1\_2402\_1Mbps\_Lower Band Edge Emissions 06:12:19 PM Mar 30, 2023 Frequency Avg Type: Log-Pwi Avg|Hold: 100/100 Center Freq 2.487500000 GHz Trig: Free Run #Atten: 30 dB **Auto Tune** Mkr2 2.483 500 0 GHz -54.418 dBm Ref 20.00 dBm Center Freq 2.487500000 GHz Start Freq 2.475000000 GHz Stop Freq 2.500000000 GHz Start 2.47500 GHz Stop 2.50000 GHz Sweep 4.000 ms (30000 pts) **CF Step** 2.500000 MHz #Res BW 100 kHz #VBW 300 kHz Man FUNCTION FUNCTION WIDTH Freq Offset

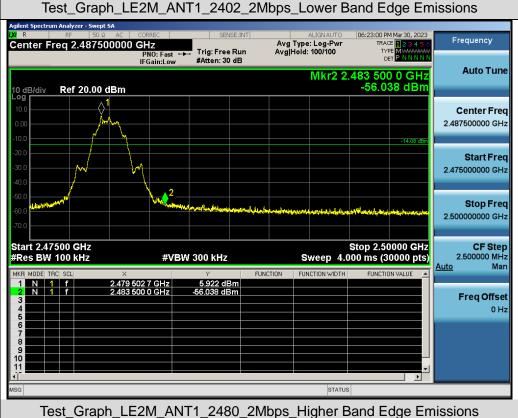
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Test\_Graph\_LE1M\_ANT1\_2480\_1Mbps\_Higher Band Edge Emissions











Page 36 of 58

# 10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

#### 10.1. MEASUREMENT PROCEDURE

- (1). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3). Set the SPA Trace 1 Max hold, then View.

Note: The method of PKPSD in the KDB 558074 item 8.4 was used in this testing.

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

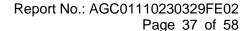
Refer to Section 7.2.

#### 10.3. MEASUREMENT EQUIPMENT USED

Refer to Section 6.

#### 10.4. LIMITS AND MEASUREMENT RESULT

Test Data of Conducted Output Power Spectral Density					
Test Mode	Test Channel (MHz)	Power density (dBm/3kHz)	Limit (dBm/3kHz)	Pass or Fail	
	2402	-8.374	<b>≤8</b>	Pass	
GFSK 1M	2440	-6.760	≪8	Pass	
	2480	-8.351	<b>≤8</b>	Pass	
	2402	-14.455	<b>≤8</b>	Pass	
GFSK 2M	2440	-10.217	≤8	Pass	
	2480	-7.161	<b>≤8</b>	Pass	





**Test Graphs of Conducted Output Power Spectral Density** 06:09:58 PM Mar 30, 2023 Frequency Center Freq 2.402000000 GHz Avg Type: Log-Pwr Avg|Hold: 100/100 PNO: Wide ↔ IFGain:Low Trig: Free Run #Atten: 30 dB Auto Tune Mkr1 2.401 832 3 GHz -8.374 dBm 10 dB/div Ref 20.00 dBm Center Freq 2.402000000 GHz Start Freq 2.401487750 GHz Stop Freq 2.402512250 GHz CF Step 102.450 kHz Mar Freq Offset 0 Hz Center 2.4020000 GHz #Res BW 3.0 kHz Span 1.025 MHz Sweep 108.0 ms (1000 pts) #VBW 10 kHz Test\_Graph\_LE1M\_ANT1\_2402\_1Mbps\_PSD 05:41:13 PM Mar 29, 2023 Frequency Avg Type: Log-Pwr Avg|Hold: 100/100 Center Freg 2.440000000 GHz Trig: Free Run #Atten: 30 dB **Auto Tune** Mkr1 2.439 904 1 GHz -6.760 dBm 10 dB/div Ref 20.00 dBm Center Freq 2.440000000 GHz stafat Lynn utw my ban bad yn ma Start Freq 2.439498250 GHz Stop Freq 2.440501750 GHz CF Step 100.350 kHz Man Freq Offset

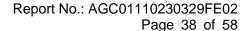
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Test\_Graph\_LE1M\_ANT1\_2440\_1Mbps\_PSD

**#VBW 10 kHz** 

Span 1.004 MHz Sweep 105.8 ms (1000 pts)

Center 2.4400000 GHz #Res BW 3.0 kHz



175.800 kHz

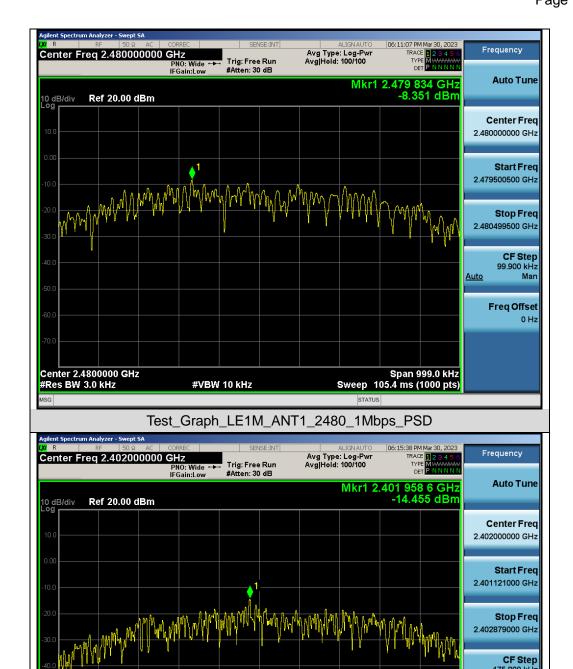
Freq Offset 0 Hz

Man

Auto

Span 1.758 MHz Sweep 185.4 ms (1000 pts)



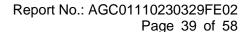


Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Test\_Graph\_LE2M\_ANT1\_2402\_2Mbps\_PSD

#VBW 10 kHz

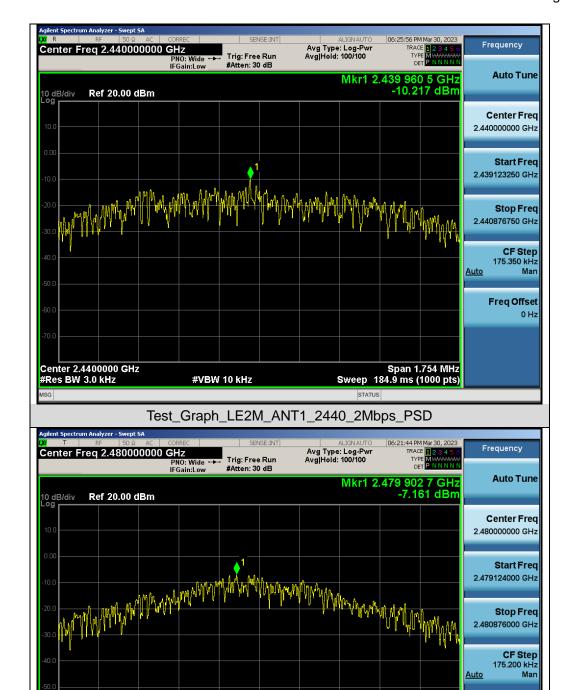
Center 2.4020000 GHz #Res BW 3.0 kHz



Freq Offset 0 Hz

Span 1.752 MHz Sweep 184.7 ms (1000 pts)





Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Test\_Graph\_LE2M\_ANT1\_2480\_2Mbps\_PSD

#VBW 10 kHz

Center 2.4800000 GHz #Res BW 3.0 kHz



Page 40 of 58

## 11. RADIATED EMISSION

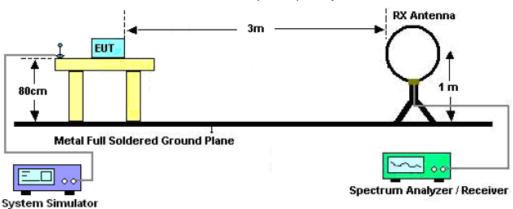
#### 11.1. MEASUREMENT PROCEDURE

- 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.
- 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. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8.If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

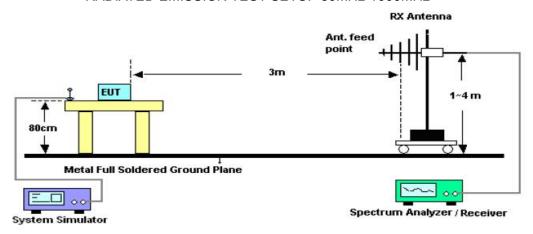


#### 11.2. TEST SETUP

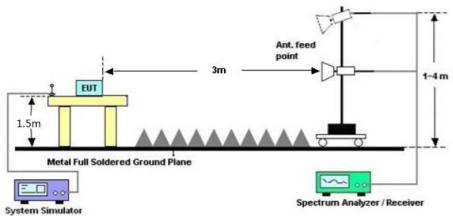
## Radiated Emission Test-Setup Frequency Below 30MHz



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



## RADIATED EMISSION TEST SETUP ABOVE 1000MHz





Page 42 of 58

## 11.3. LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

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

Note: All modes were tested for restricted band radiated emission, the test records reported below are the worst result compared to other modes.

#### 11.4. TEST RESULT

#### Radiated emission below 30MHz

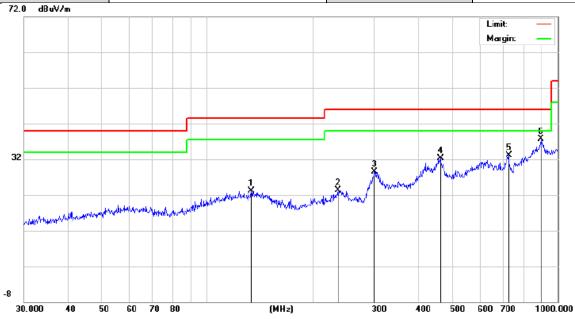
The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.



Page 43 of 58

## Radiated emission from 30MHz to 1000MHz

EUT	Wireless Headphone	Model Name	A3993RC
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal



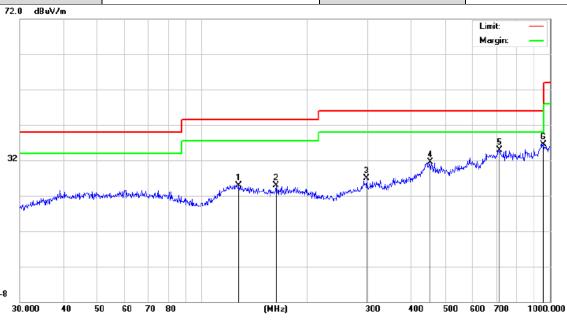
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		133.6188	6.07	17.10	23.17	43.50	-20.33	peak
2		235.8164	5.61	17.77	23.38	46.00	-22.62	peak
3		300.3672	5.15	23.44	28.59	46.00	-17.41	peak
4		462.3455	5.45	26.86	32.31	46.00	-13.69	peak
5		724.2611	7.05	25.97	33.02	46.00	-12.98	peak
6	*	893.8567	6.64	31.03	37.67	46.00	-8.33	peak

**RESULT: PASS** 



Page 44 of 58

EUT	Wireless Headphone	Model Name	A3993RC
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		127.6645	5.82	19.13	24.95	43.50	-18.55	peak
2		163.1818	6.60	18.25	24.85	43.50	-18.65	peak
3		297.2241	7.19	19.69	26.88	46.00	-19.12	peak
4		452.7197	6.01	25.53	31.54	46.00	-14.46	peak
5		716.6820	6.29	28.68	34.97	46.00	-11.03	peak
6	*	955.4381	6.17	30.38	36.55	46.00	-9.45	peak

# RESULT: PASS Note:

- 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.
- 2. All test modes had been tested. The mode 2 is the worst case and recorded in the report.



Page 45 of 58

## Radiated emission above 1GHz

EUT	Wireless Headphone	Model Name	A3993RC
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4804.000	45.26	0.08	45.34	74	-28.66	peak
4804.000	36.17	0.08	36.25	54	-17.75	AVG
7206.000	41.02	2.21	43.23	74	-30.77	peak
7206.000	32.49	2.21	34.7	54	-19.3	AVG

Remark:

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

EUT	Wireless Headphone	Model Name	A3993RC
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4804.000	45.29	0.08	45.37	74	-28.63	peak
4804.000	35.27	0.08	35.35	54	-18.65	AVG
7206.000	40.18	2.21	42.39	74	-31.61	peak
7206.000	31.54	2.21	33.75	54	-20.25	AVG

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



Page 46 of 58

EUT	Wireless Headphone	Model Name	A3993RC
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type	
4880.000	46.29	0.14	46.43	74	-27.57	peak	
4880.000	36.57	0.14	36.71	54	-17.29	AVG	
7320.000	41.05	2.36	43.41	74	-30.59	peak	
7320.000	32.48	2.36	34.84	54	-19.16	AVG	
Remark:							
actor = Antonna Factor + Cable Loca Dra amplifier							

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

EUT	Wireless Headphone	Model Name	A3993RC
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4880.000	46.29	0.14	46.43	74	-27.57	peak
4880.000	37.54	0.14	37.68	54	-16.32	AVG
7320.000	41.05	2.36	43.41	74	-30.59	peak
7320.000	32.48	2.36	34.84	54	-19.16	AVG

## Remark:

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



Page 47 of 58

EUT	Wireless Headphone	Model Name	A3993RC
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4960.000	46.28	0.22	46.5	74	-27.5	peak
4960.000	36.28	0.22	36.5	54	-17.5	AVG
7440.000	41.03	2.64	43.67	74	-30.33	peak
7440.000	32.57	2.64	35.21	54	-18.79	AVG
Remark:						

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

EUT	Wireless Headphone	Model Name	A3993RC
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
43.16	0.22	43.38	74	-30.62	peak
34.51	0.22	34.73	54	-19.27	AVG
40.16	2.64	42.8	74	-31.2	peak
30.27	2.64	32.91	54	-21.09	AVG
	(dBµV) 43.16 34.51 40.16	(dBµV) (dB) 43.16 0.22 34.51 0.22 40.16 2.64	(dBμV)     (dB)     (dBμV/m)       43.16     0.22     43.38       34.51     0.22     34.73       40.16     2.64     42.8	(dBμV)     (dB)     (dBμV/m)     (dBμV/m)       43.16     0.22     43.38     74       34.51     0.22     34.73     54       40.16     2.64     42.8     74	(dBμV)         (dB)         (dBμV/m)         (dBμV/m)         (dBμV/m)           43.16         0.22         43.38         74         -30.62           34.51         0.22         34.73         54         -19.27           40.16         2.64         42.8         74         -31.2

Remark

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

#### **RESULT: PASS**

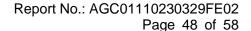
#### Note

The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.

Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

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

All test modes had been tested. The BLE 1Mbps modulation is the recorded in the report.

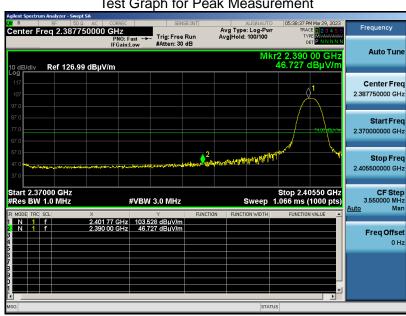




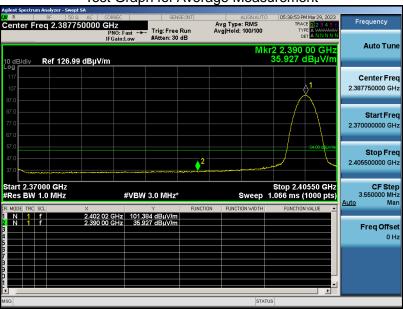
Test result for band edge emission at restricted bands

EUT	Wireless Headphone	Model Name	A3993RC
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

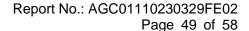
Test Graph for Peak Measurement







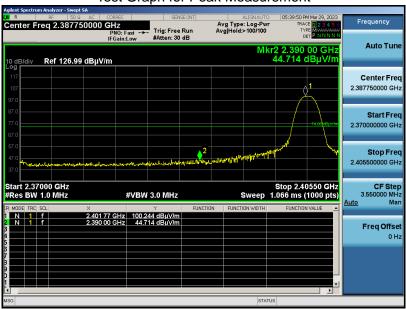
**RESULT: PASS** 



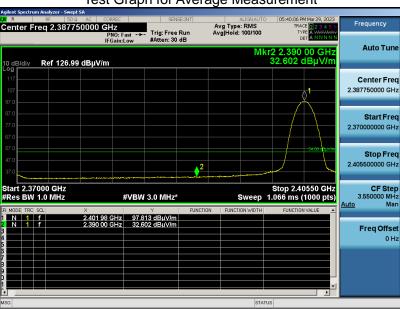


**EUT Model Name** A3993RC Wireless Headphone 25° C **Temperature Relative Humidity** 55.4% 960hPa **Test Voltage** Normal Voltage **Pressure Test Mode** Mode 1 **Antenna** Vertical

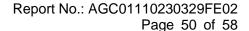
Test Graph for Peak Measurement







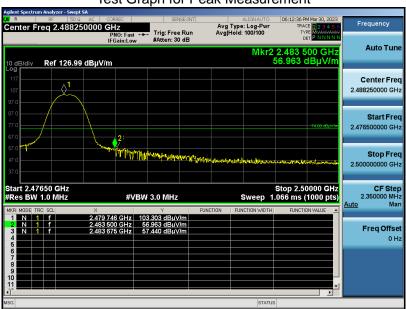
**RESULT: PASS** 

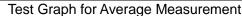


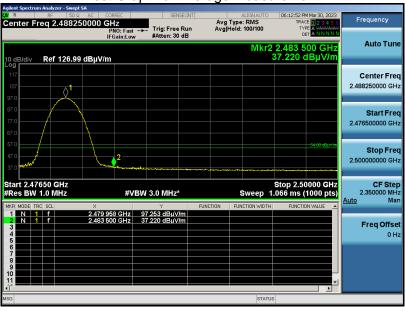


**EUT Model Name** A3993RC Wireless Headphone 25° C **Temperature Relative Humidity** 55.4% 960hPa **Test Voltage** Normal Voltage **Pressure Test Mode** Mode 3 **Antenna** Horizontal

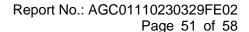
Test Graph for Peak Measurement







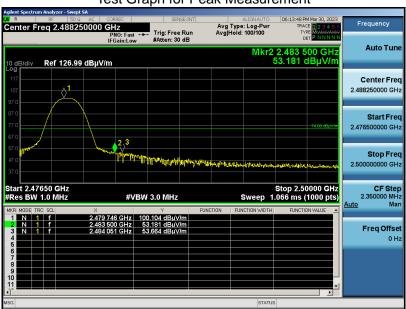
**RESULT: PASS** 

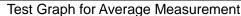


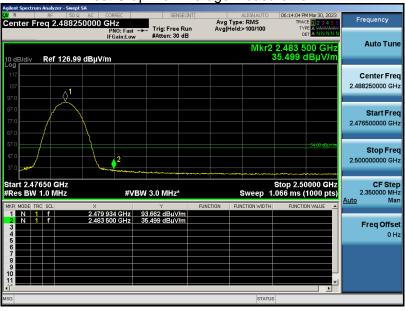


**EUT Model Name** A3993RC Wireless Headphone 25° C **Temperature Relative Humidity** 55.4% 960hPa **Test Voltage** Normal Voltage **Pressure Test Mode** Mode 3 **Antenna** Vertical

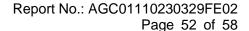
Test Graph for Peak Measurement







**RESULT: PASS** 

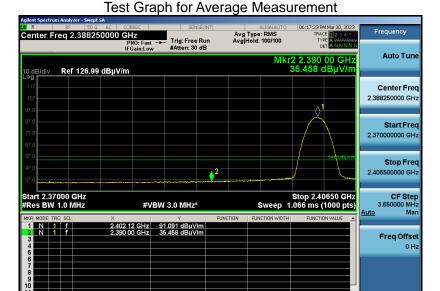




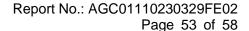
**EUT Model Name** A3993RC Wireless Headphone 25° C **Temperature Relative Humidity** 55.4% 960hPa **Test Voltage** Normal Voltage **Pressure Test Mode** Mode 4 **Antenna** Horizontal

Test Graph for Peak Measurement





**RESULT: PASS** 

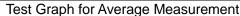


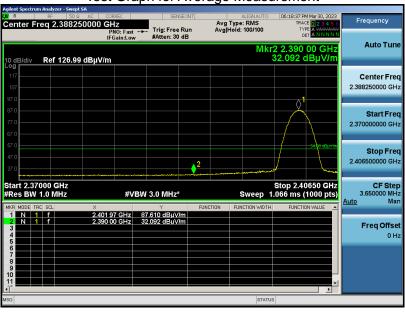


**EUT Model Name** A3993RC Wireless Headphone 25° C **Temperature Relative Humidity** 55.4% 960hPa **Test Voltage** Normal Voltage **Pressure Test Mode** Mode 4 **Antenna** Vertical

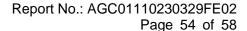
Test Graph for Peak Measurement







**RESULT: PASS** 

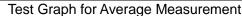


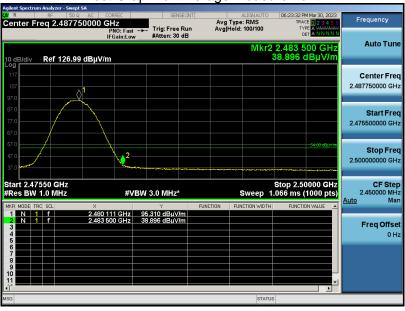


**EUT Model Name** A3993RC Wireless Headphone 25° C **Temperature Relative Humidity** 55.4% 960hPa **Test Voltage** Normal Voltage **Pressure Test Mode** Mode 6 **Antenna** Horizontal

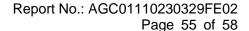
Test Graph for Peak Measurement







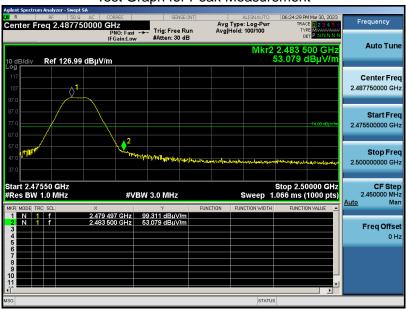
**RESULT: PASS** 



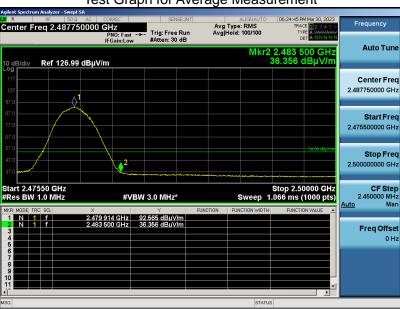


**EUT Model Name** A3993RC Wireless Headphone 25° C **Temperature Relative Humidity** 55.4% 960hPa Normal Voltage **Pressure Test Voltage Test Mode** Mode 6 **Antenna** Vertical

Test Graph for Peak Measurement







#### **RESULT: PASS**

Note: The factor had been edited in the "Input Correction" of the Spectrum Analyzer.



Page 56 of 58

#### 12. LINE CONDUCTED EMISSION TEST

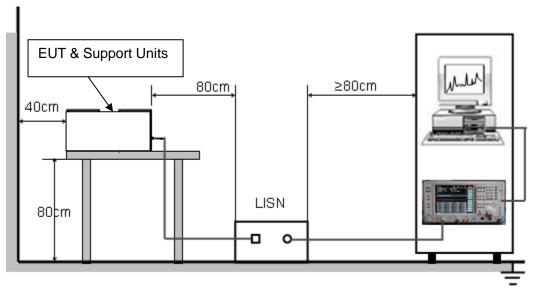
## 12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

F	Maximum RF Line Voltage			
Frequency	Q.P.( dBuV)	Average( dBuV)		
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.

#### 12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST





Page 57 of 58

#### 12.3. 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.

#### 12.4. 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.

## 12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

N/A

Note: The BT function cannot transmit when charging.



Page 58 of 58

## APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Refer to the Report No.: AGC01110230329AP01

**APPENDIX B: PHOTOGRAPHS OF EUT** 

Refer to the Report No.: AGC01110230329AP02

----END OF REPORT----



# Conditions of Issuance of Test Reports

- 1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").
- 2. Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
- 3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
- 4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
- 5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
- 6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
- 7.Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
- 8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
- 9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.