

FCC Test Report

Report No.: AGC01924210501FE02

FCC ID	:	2AMBA-TWSAJT
APPLICATION PURPOSE	8	Original Equipment
PRODUCT DESIGNATION	:	TWS Earbuds
BRAND NAME	:	N/A
MODEL NAME		S32, S28, S31, S33, S34, S35, S36, S37, S38, S39, S40, S41, S42, S43, S44, S45, S46, S47, S48, S49, S50, S51, S52, S53, S54, S55, S56, S57, S58, S59, S60, S61, S62, S63, S64, S65, S66, S67, S68, S69, S70, S71, S72, S73, S74, S75, S76, S77, S78, S79, S80, GUANDA SM200, Nulaxy 28, Zivo S1, Zivo S2, AA-UM4 Pro, T17 Pro, TWS88, S68Pro
APPLICANT	:	Dongguan Pinmi Electronic Technology Co., Ltd
DATE OF ISSUE	:	May 31, 2021
STANDARD(S)	:	FCC Part 15.247
REPORT VERSION	5	V1.0 Compliance Snorthen) C
Attestation of (Glo	obal Compliance (Shenzhen) Co., Ltd



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 Attestation of Global Compliance(Shenzhen)Co., Ltd

 Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com



Report No.: AGC01924210501FE02 Page 2 of 77

REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0		May 31, 2021	Valid	Initial Release

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TABLE OF CONTENTS

1. VERIFICATION OF COMPLIANCE	4
2. GENERAL INFORMATION	5
2.1. PRODUCT DESCRIPTION	
2.3. RELATED SUBMITTAL(S)/GRANT(S) 2.4. TEST METHODOLOGY	6
2.5. SPECIAL ACCESSORIES 2.6. EQUIPMENT MODIFICATIONS	
2.7. ANTENNA REQUIREMENT	
3. MEASUREMENT UNCERTAINTY	
4. DESCRIPTION OF TEST MODES	
5. SYSTEM TEST CONFIGURATION	
5.1. CONFIGURATION OF TESTED SYSTEM	
5.2. EQUIPMENT USED IN TESTED SYSTEM 5.3. SUMMARY OF TEST RESULTS	
6. TEST FACILITY	
7. PEAK OUTPUT POWER	
7.1. MEASUREMENT PROCEDURE 7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	
7.3. LIMITS AND MEASUREMENT RESULT	
8. BANDWIDTH	
8.1. MEASUREMENT PROCEDURE	
8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) 8.3. LIMITS AND MEASUREMENT RESULTS	14
9. CONDUCTED SPURIOUS EMISSION	
9.1. MEASUREMENT PROCEDURE	
9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) 9.3. MEASUREMENT EQUIPMENT USED	
9.3. MEASOREMENT EQUIPMENT USED	
10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY	
10.1. MEASUREMENT PROCEDURE	
10.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	
10.3. MEASUREMENT EQUIPMENT USED 10.4. LIMITS AND MEASUREMENT RESULT	
11. RADIATED EMISSION	
11.1. MEASUREMENT PROCEDURE	
11.2. TEST SETUP	
11.3. LIMITS AND MEASUREMENT RESULT	
11.4. TEST RESULT APPENDIX A: PHOTOGRAPHS OF TEST SETUP	
APPENDIX B: PHOTOGRAPHS OF EUT	

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1. VERIFICATION OF COMPLIANCE

Applicant	Dongguan Pinmi Electronic Technology Co., Ltd		
Address	2F, E Building, Hongda Industrial Park, Jianshe Road, Shima Community, Tangxia Town, Dongguan, China		
Manufacturer	Dongguan Pinmi Electronic Technology Co., Ltd		
Address	2F, E Building, Hongda Industrial Park, Jianshe Road, Shima Community, Tangxia Town, Dongguan, China		
Factory	Dongguan Pinmi Electronic Technology Co., Ltd		
Address	2F, E Building, Hongda Industrial Park, Jianshe Road, Shima Community, Tangxia Town, Dongguan, China		
Product Designation	TWS Earbuds		
Brand Name	N/A		
Test Model	S32		
Series Model	S28, S31, S33, S34, S35, S36, S37, S38, S39, S40, S41, S42, S43, S44, S45, S46, S47, S48, S49, S50, S51, S52, S53, S54, S55, S56, S57, S58, S59, S60, S61, S62, S63, S64, S65, S66, S67, S68, S69, S70, S71, S72, S73, S74, S75, S76, S77, S78, S79, S80, GUANDA SM200, Nulaxy 28, Zivo S1, Zivo S2, AA-UM4 Pro, T17 Pro, TWS88, S68Pro		
Declaration of Difference	All the same except for the model name.		
Date of test	May 13, 2021 to May 31, 2021		
Deviation	No any deviation from the test method		
Condition of Test Sample			
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.

Prepared By

Then Hunny

Thea Huang Project Engineer

May 31, 2021

Max Zham

Reviewed By

Max Zhang Reviewer

May 31, 2021

Approved By

Forrest Lei Authorized Officer

May 31, 2021

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Attestation of Global Compliance(Shenzhen)Co., Ltd Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Web: http://cn.agc-cert.com/



2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as a "TWS Earbuds". 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	2.009dBm (Max)		
Bluetooth Version	V5.0		
Modulation	BR □GFSK, EDR □π /4-DQPSK, □8DPSK BLE ⊠GFSK 1Mbps □GFSK 2Mbps		
Number of channels	40 Channels		
Antenna Designation	Ceramic Antenna (Comply with requirements of the FCC part 15.203)		
Antenna Gain	2dBi		
Hardware Version	V1.0		
Software Version	V1.4.1		
Power Supply	DC 3.7V by battery or DC 5V by adapter		

Note: The EUT comprises left and right channel headsets, both are the same, the left headset had been tested and recorded in this report as the worst case.

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	

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

This submittal(s) (test report) is intended for FCC ID: 2AMBA-TWSAJT 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.

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3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y $\pm U$, 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	$U_{c} = \pm 2 \%$	
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2 \%$	

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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.

Software Setting Actions BT FCC Tool V2.24 SOLUTION ATS301X СОМ СОМ4 🔻 115200 BQB Mode • RF Channel 0 Hopping Mode Normal_F - fixed Packet Type BLE_1M Payload Type PRBS9 TX Gain Index 0 RX Gain Index 0 Access Code Ox AbDdE341 AGC Mode 📃 Continue TX Packet TX Single Tone Packet RX

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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF TESTED SYSTEM

Radiated Emission Configure:

EUT

Conducted Emission Configure:

EUT	AE

5.2. EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	TWS Earbuds	S32	2AMBA-TWSAJT	EUT
2	Control Box	USB-TTL	N/A	AE

5.3. SUMMARY OF TEST RESULTS

DESCRIPTION OF TEST	RESULT
Peak Output Power	Compliant
6 dB Bandwidth	Compliant
Conducted Spurious Emission	Compliant
Maximum Conducted Output Power Density	Compliant
Radiated Emission	Compliant
Conducted Emission	Not applicable
	Peak Output Power 6 dB Bandwidth Conducted Spurious Emission Maximum Conducted Output Power Density Radiated Emission

Note: The BT function cannot transmit when charging.

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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	May 15, 2020	May 14, 2021
TEST RECEIVER	R&S	ESCI	10096	May 15,2021	May 14,2022
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 07, 2020	Dec. 06, 2021
2.4GHz Filter	EM Electronics	2400-2500MHz	N/A	Mar. 23, 2020	Mar. 22, 2022
Attenuator	ZHINAN	E-002	N/A	Sep. 03, 2020	Sep. 02, 2022
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 21, 2019	Sep. 20, 2021
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	May 22, 2020	May 21, 2022
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	Apr. 23, 2021	Apr. 22, 2023
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Sep. 03, 2020	Sep. 02, 2022
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 08, 2021	Jan. 07, 2023
Test software	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A

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7. PEAK OUTPUT POWER

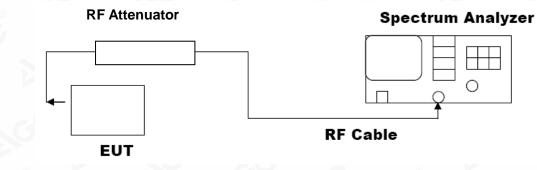
7.1. MEASUREMENT PROCEDURE

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



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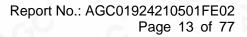
7.3. LIMITS AND MEASUREMENT RESULT

Test Data of Conducted Output Power						
Test Mode	Test Channel (MHz)	Peak Power (dBm)	Limits (dBm)	Pass or Fail		
	2402	2.009	≤30	Pass		
GFSK 1M	2440	1.938	≤30	Pass		
6	2480	1.893	≤30	Pass		

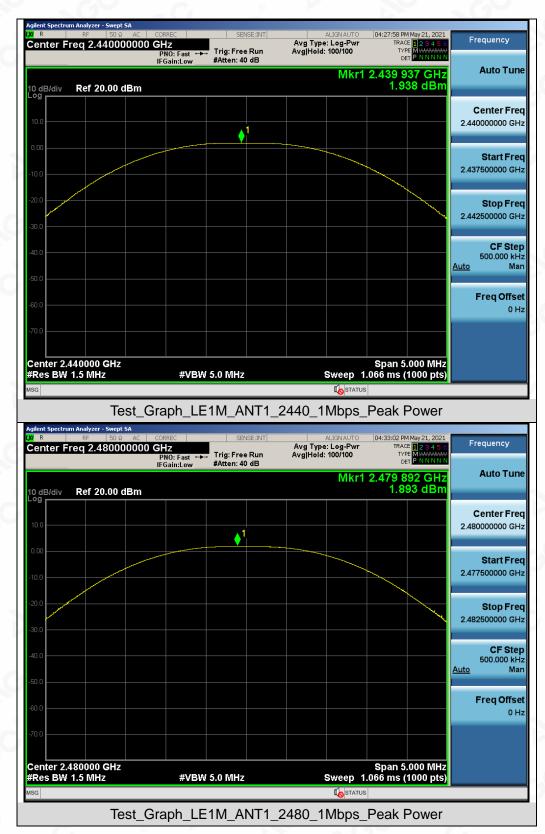


Test Graphs of Conducted Output Power

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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 \ge 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 o	f Occupied Bandwidt	th and DTS Bandwid	dth	
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-6dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
	2402	1.056	0.672	≥0.5	Pass
GFSK 1M	2440	1.055	0.671	≥0.5	Pass
0	2480	1.056	0.671	≥0.5	Pass

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Test Graphs of Occupied Bandwidth

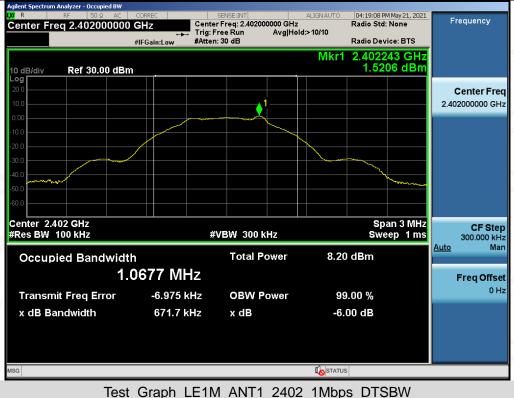
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Report No.: AGC01924210501FE02 Page 16 of 77



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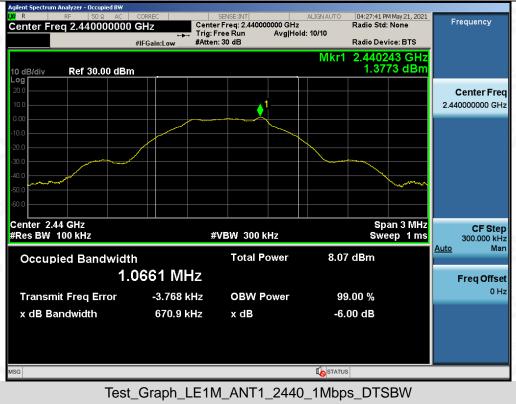


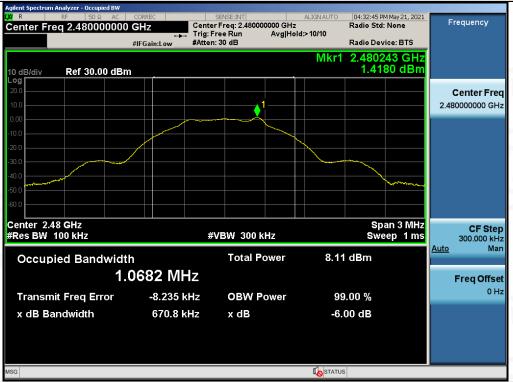
Test Graphs of DTS Bandwidth

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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				
Appliechie Limite	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		

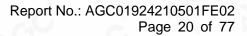
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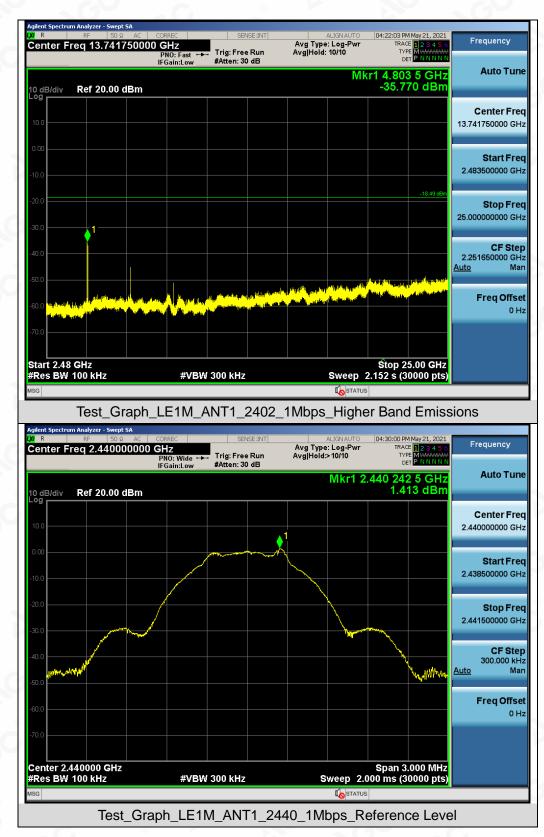


Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands

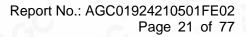
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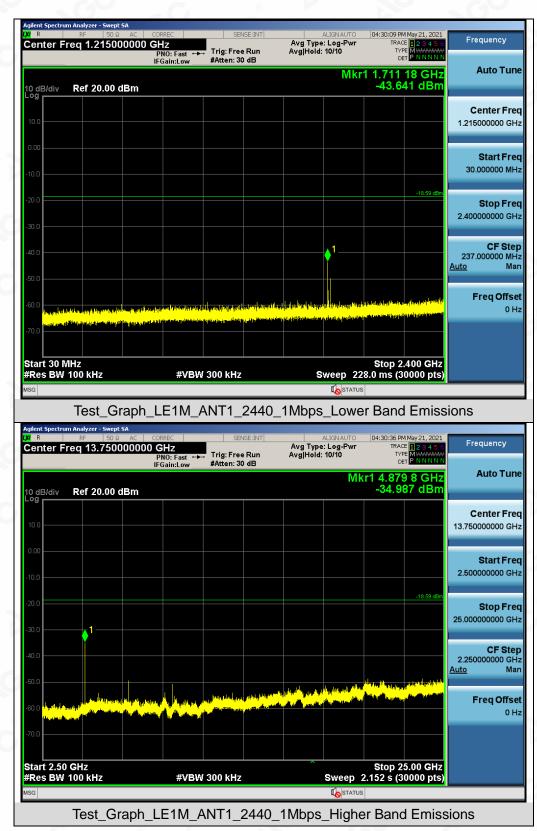




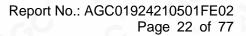
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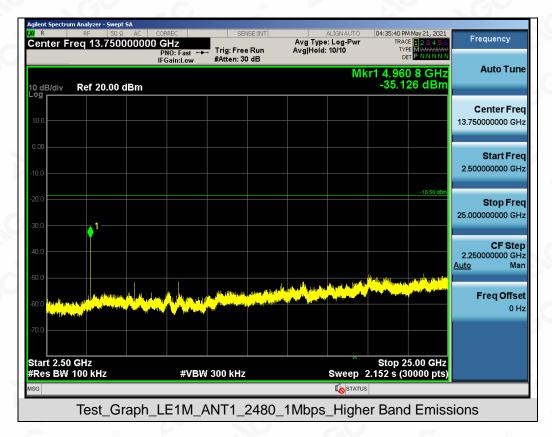




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Report No.: AGC01924210501FE02 Page 23 of 77



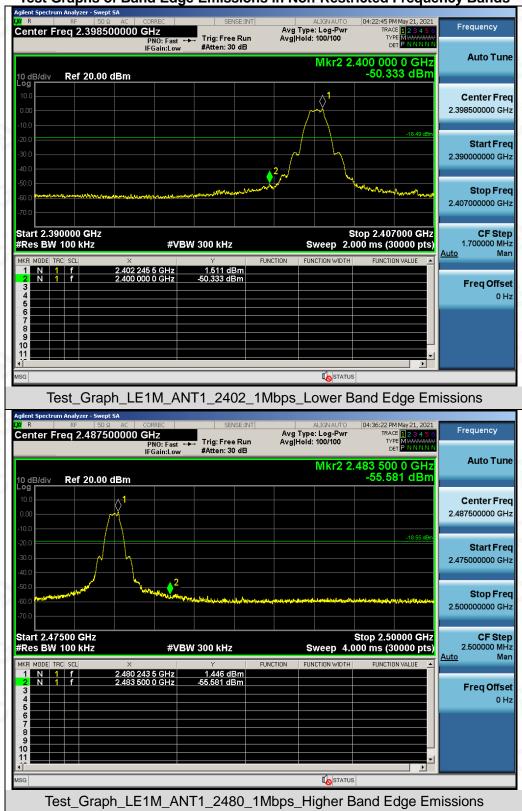
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 Attestation of Global Compliance(Shenzhen)Co., Ltd

 Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com





Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands

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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.

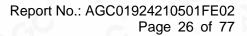
10.4. LIMITS AND MEASUREMENT RESULT

	Test Data of Conducted Output Power Spectral Density						
Test Mode	Test Channel (MHz)	Power density (dBm/3kHz)	Limit (dBm/3kHz)	Pass or Fail			
	2402	-13.566	≪8	Pass			
GFSK 1M	2440	-13.639	≪8	Pass			
°.	2480	-13.648	≤8	Pass			

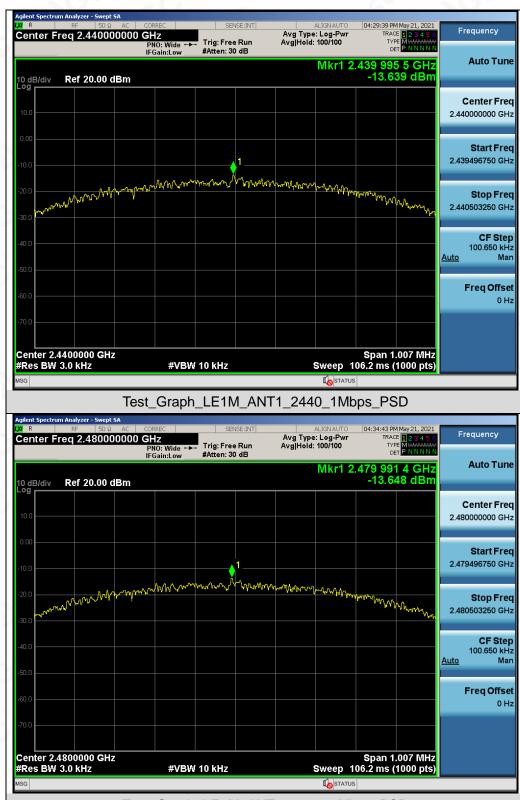
Test Graphs of Conducted Output Power Spectral Density



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Test_Graph_LE1M_ANT1_2480_1Mbps_PSD

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11. RADIATED EMISSION

11.1. MEASUREMENT PROCEDURE

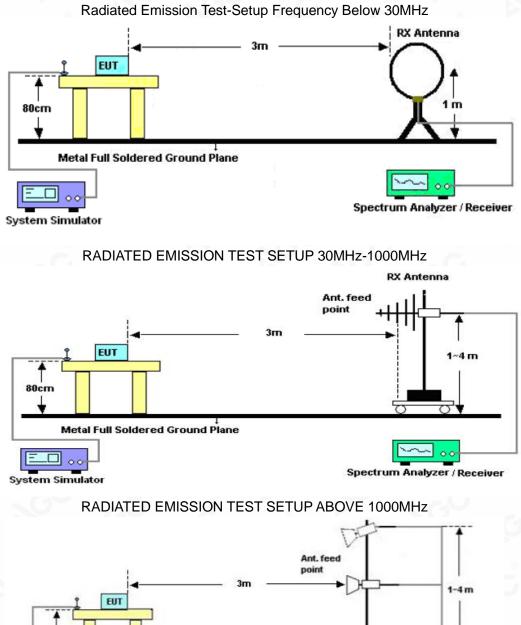
- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated 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.

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Report No.: AGC01924210501FE02 Page 28 of 77

11.2. TEST SETUP



1.5m Metal Full Soldered Ground Plane System Simulator Spectrum Analyzer / Receiver

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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.

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Report No.: AGC01924210501FE02 Page 30 of 77

UT		TWS	Earbuds		Model	Name	S32	<u>.</u>
emperature		25° C	25° C			e Humidit	y 55.4	1%
ressure		960hF	Pa	30	Test Vo	oltage	Nor	mal Voltage
est Mode		Mode	Mode 1		Antenr	na	Horizontal	
72.0	dBu¥∕m						Limit	_
0							Marg	
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32	l S		de a tarrel	www.www.hum	11-20-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	Al May a May and High and a .		
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	A AMARAMAN AND	Hunny William	Mar					
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	A martine way	How How We was	yyddd ^{oryna} co'r					
	A garden and	the work						
-8 30.000	A sporter of the	224.00		i18.00 515.00	612.00		5.00	1000.00 MHz
30.000	0 127.00	224.00		i18.00 515.00		709.00 806	5.00	Ç
30.000	A sporter of the		321.00 4	i18.00 515.00	612.00	709.00 806		Ç
30.000	0 127.00	224.00	321.00 4 Reading	118.00 515.00 Correct	612.00 Measure-	709.00 806	5.00	Ç
30.000	0 127.00 Mk.	224.00 Freq.	321.00 4 Reading Level	118.00 515.00 Correct Factor	612.00 Measure- ment	709.00 806 Limit	3.00 Over	1000.00 MHz
30.000 No.	0 127.00 Mk.	224.00 Freq. MHz	321.00 4 Reading Level dBuV	118.00 515.00 Correct Factor dB	612.00 Measure- ment dBuV/m	709.00 800 Limit dBuV/m	3.00 Over dB	1000.00 MHz
30.000 No.	0 127.00 Mk.	224.00 Freq. MHz 60.0700	321.00 4 Reading Level dBuV 5.02	118.00 515.00 Correct Factor dB 19.85	612.00 Measure- ment dBuV/m 24.87	709.00 800 Limit dBuV/m 40.00	0ver dB -15.13	1000.00 MHz Detector peak
30.000 No. 1	0 127.00 Mk. 6 14 42	224.00 Freq. MHz 60.0700 45.4299	321.00 4 Reading Level dBuV 5.02 5.51	118.00 515.00 Correct Factor dB 19.85 20.68	612.00 Measure- ment dBuV/m 24.87 26.19	709.00 800 Limit dBuV/m 40.00 43.50	Over dB -15.13 -17.31	Detector peak peak
30.000 No. 1 2 3	0 127.00 Mk. 6 14 42 53	224.00 Freq. MHz 60.0700 45.4299 22.8500	321.00 4 Reading Level dBuV 5.02 5.51 6.24	118.00 515.00 Correct Factor dB 19.85 20.68 24.98	612.00 Measure- ment dBuV/m 24.87 26.19 31.22	709.00 800 Limit dBuV/m 40.00 43.50 46.00	Over dB -15.13 -17.31 -14.78	Detector peak peak peak

Radiated emission from 30MHz to 1000MHz

RESULT: PASS

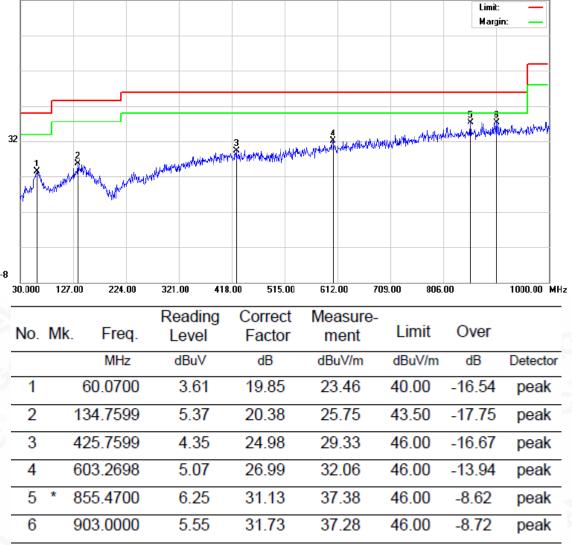
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Report No.: AGC01924210501FE02 Page 31 of 77

EUT	TWS Earbuds	Model Name	S32
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

72.0 dBu∀/m



RESULT: PASS Note:

1. Factor=Antenna Factor + Cable loss, Over=Measurement-Limit.

2. All test modes had been tested. The mode 1 is the worst case and recorded in the report.

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Report No.: AGC01924210501FE02 Page 32 of 77

Radiated emission above 1GHz

EUT	TWS Earbuds	Model Name	S32
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	43.61	0.08	43.69	74	-30.31	peak
4804.000	35.32	0.08	35.4	54	-18.6	AVG
7206.000	38.48	2.21	40.69	74	-33.31	peak
7206.000	31.49	2.21	33.7	54	-20.3	AVG
		8			C.	8
			8			

EUT	TWS Earbuds	Model Name	S32
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
44.96	0.08	45.04	74	-28.96	peak
34.53	0.08	34.61	54 💿	-19.39	AVG
38.62	2.21	40.83	74	-33.17	peak
30.41	2.21	32.62	54	-21.38	AVG
	C	0	0		
	(dBµV) 44.96 34.53 38.62	(dBµV) (dB) 44.96 0.08 34.53 0.08 38.62 2.21	(dBµV) (dB) (dBµV/m) 44.96 0.08 45.04 34.53 0.08 34.61 38.62 2.21 40.83	(dBµV) (dB) (dBµV/m) (dBµV/m) 44.96 0.08 45.04 74 34.53 0.08 34.61 54 38.62 2.21 40.83 74	(dBµV) (dB) (dBµV/m) (dBµV/m) (dB) 44.96 0.08 45.04 74 -28.96 34.53 0.08 34.61 54 -19.39 38.62 2.21 40.83 74 -33.17

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Report No.: AGC01924210501FE02 Page 33 of 77

EUT	TWS Earbuds	Model Name	S32
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	44.85	0.14	44.99	74	-29.01	peak
4880.000	35.62	0.14	35.76	54	-18.24	AVG
7320.000	39.49	2.36	41.85	74	-32.15	peak
7320.000	31.31	2.36	33.67	54	-20.33	AVG
60		8		200		0
emark:	0 - 0		0		NOV	- Ci
actor = Anter	nna Factor + Cable	Loss - Pre-	amplifier.			

EUT	TWS Earbuds	Model Name	S32
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 💿	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4880.000	45.79	0.14	45.93	74	-28.07	peak
4880.000	38.63	0.14	38.77	54 💿	-15.23	AVG
7320.000	40.32	2.36	42.68	74	-31.32	peak
7320.000	32.54	2.36	34.9	54	-19.1	AVG
		<u> </u>	©			

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

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Report No.: AGC01924210501FE02 Page 34 of 77

EUT	TWS Earbuds	Model Name	S32
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	44.87	0.22	45.09	74	-28.91	peak
4960.000	35.15	0.22	35.37	54	-18.63	AVG
7440.000	38.26	2.64	40.9	74	-33.1	peak
7440.000	29.43	2.64	32.07	54	-21.93	AVG
60				00		©
emark:						

EUT	TWS Earbuds	Model Name	S32
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4960.000	42.63	0.22	42.85	74	-31.15	peak
4960.000	34.35	0.22	34.57	54	-19.43	AVG
7440.000	38.42	2.64	41.06	74 💿	-32.94	peak
7440.000	29.18	2.64	31.82	54	-22.18	AVG
<u> </u>		®			c.C	

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, Margin=Level-Limit.

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

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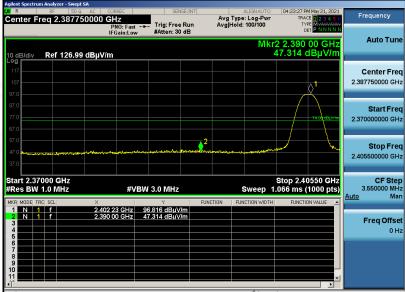


Report No.: AGC01924210501FE02 Page 35 of 77

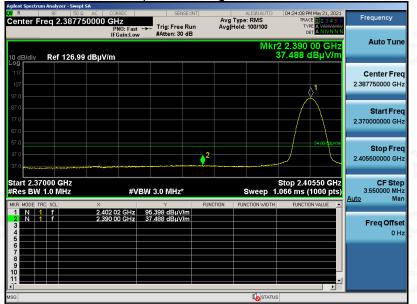
EUT	TWS Earbuds	Model Name	S32
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

Test result for band edge emission at restricted bands

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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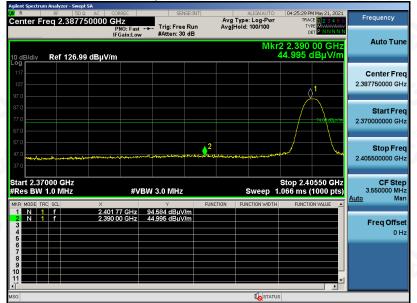
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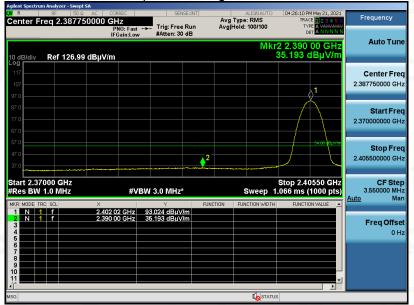
Report No.: AGC01924210501FE02 Page 36 of 77

EUT	TWS Earbuds	Model Name	S32
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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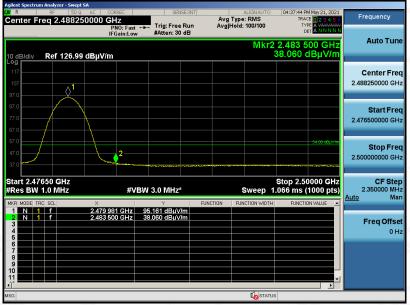
Report No.: AGC01924210501FE02 Page 37 of 77

EUT	TWS Earbuds	Model Name	S32
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

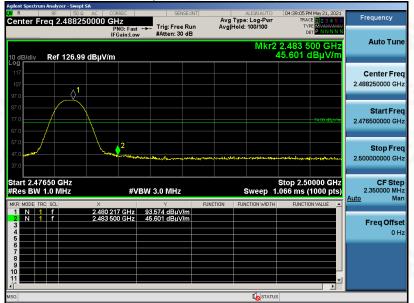
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the test of the definition of the report is not permitted without the written approver apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



Report No.: AGC01924210501FE02 Page 38 of 77

EUT	TWS Earbuds	Model Name	S32
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical
	T (0, 1) (D) (1)		

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

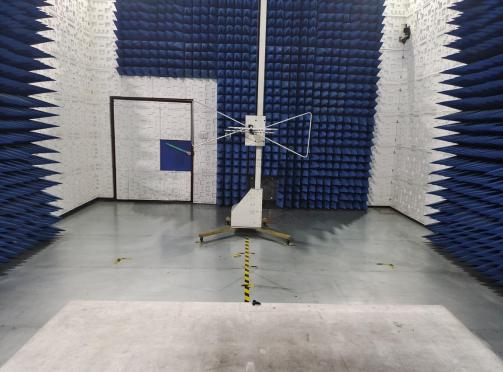
Note: The factor had been edited in the "Input Correction" of the Spectrum Analyzer.

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Report No.: AGC01924210501FE02 Page 39 of 77

APPENDIX A: PHOTOGRAPHS OF TEST SETUP RADIATED EMISSION TEST SETUP BELOW 1GHz



RADIATED EMISSION TEST SETUP ABOVE 1GHz

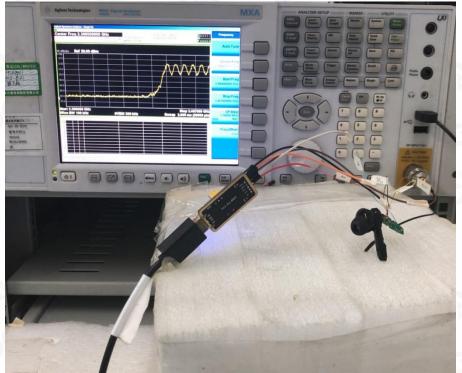


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Report No.: AGC01924210501FE02 Page 40 of 77



CONDUCTED TEST SETUP

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Report No.: AGC01924210501FE02 Page 41 of 77

40 30 20 10 õ 90 80 70 60 50 40 30 20 30 50 10 100 30 80 10 90 80 10 <t 0 50

APPENDIX B: PHOTOGRAPHS OF EUT The main test model WHOLE VIEW OF EUT-1

WHOLE VIEW OF EUT-2



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Report No.: AGC01924210501FE02 Page 42 of 77



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 Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com



Report No.: AGC01924210501FE02 Page 43 of 77

FRONT VIEW OF EUT



BACK VIEW OF EUT



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 Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com



Report No.: AGC01924210501FE02 Page 44 of 77

LEFT VIEW OF EUT



RIGHT VIEW OF EUT



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