

# **FCC Test Report**

# Report No.: AGC00184190402FE02

FCC ID	: BV2-AH-GC25W
APPLICATION PURPO	<b>DSE</b> : Original Equipment
PRODUCT DESIGNAT	<b>TON</b> : Bluetooth Headphone
BRAND NAME	: DENON
MODEL NAME	: AH-GC25W
CLIENT	: D&M Holdings Inc.
DATE OF ISSUE	: Apr. 30, 2019
STANDARD(S)	: FCC Part 15.247
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		Apr. 30, 2019	Valid	Initial Release

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#### **1. VERIFICATION OF COMPLIANCE**

Applicant	D&M Holdings Inc.		
Address	2-1 Nisshin-cho, Kawasaki-ku, Kawasak-shii, Kanagawa, 210-8569, Japan		
Manufacturer	WATA ELECTRONIC CO., LTD		
Address	NO 142, South Tanshen Road, Tanzhou Town, Zhongshan City, Guangdong, China		
Factory	WATA ELECTRONIC CO., LTD		
Address	NO 142, South Tanshen Road, Tanzhou Town, Zhongshan City, Guangdong, China		
Product Designation	Bluetooth Headphone		
Brand Name	DENON		
Test Model	AH-GC25W		
Date of test	Apr. 24, 2019 to Apr. 30, 2019		
Deviation	None		
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.

Tested By

sky dong

Sky Dong(Dong Huihui)

Reviewed By

Now Zhan

Apr. 30, 2019

Apr. 30, 2019

Approved By

Forvers ce

Forrest Lei(Lei Yonggang) Authorized Officer

Max Zhang(Zhang Yi)

Apr. 30, 2019

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Attestation of Global Compliance

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



#### 2.GENERAL INFORMATION

#### 2.1PRODUCT DESCRIPTION

The EUT is designed as a "Bluetooth 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	4.315dBm(Max)
Bluetooth Version	V 5.0
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE ⊠GFSK 1Mbps ⊡GFSK 2Mbps
Number of channels	40 Channel
Antenna Designation	Ceramic Antenna(Comply with requirements of the FCC part 15.203)
Antenna Gain	0dBi
Hardware Version	V2.3
Software Version	V5.0
Power Supply	DC 3.7V by battery

#### 2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency	
	0 the stand of the	2402MHZ	
8 # Fraggeorge Convint	GC 1 CC	2404MHZ	
2400~2483.5MHZ		The second second	
	38	2478 MHZ	
The second	39	2480 MHZ	

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

This submittal(s) (test report) is intended for FCC ID: BV2-AH-GC25W filing to comply with the FCC Part 15.247 requirements.

#### 2.4TEST 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 2.2.

#### 2.6 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

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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%.

- Uncertainty of Conducted Emission, Uc =  $\pm 3.2$  dB
- Uncertainty of Radiated Emission below 1GHz, Uc =  $\pm 3.9$  dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB
- Uncertainty of total RF power, conducted,  $Uc = \pm 0.8 dB$
- Uncertainty of RF power density, conducted,  $Uc = \pm 2.6 dB$
- Uncertainty of spurious emissions, conducted,  $Uc = \pm 2.7 dB$
- Uncertainty of Occupied Channel Bandwidth:  $Uc = \pm 2 \%$

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#### **4. DESCRIPTION OF TEST MODES**

NO.	TEST MODE DESCRIPTION				
The compares 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.

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#### **5. SYSTEM TEST CONFIGURATION**

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

Radiated Emission Configure :

EUT

Conducted Emission Configure :

EUT		AE
	E The Compliant	

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

Item	Equipment	Model No.	ID or Specification	Remark
1	Bluetooth Headphone	AH-GC25W	BV2-AH-GC25W	EUT
2	Adapter	DYS602-050200W	DC 5V/2A	Support
3	lpod	Apple	A1367	Support

#### 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	Compliant

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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 CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun. 12, 2018	Jun. 11, 2019
LISN	R&S	ESH2-Z5	100086	Aug. 28, 2018	Aug. 27, 2019

#### TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due	
TEST RECEIVER	R&S	ESCI	10096	Jun. 12, 2018	Jun. 11, 2019	
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 20, 2018	Dec. 19, 2019	
2.4GHz Fliter	Micro-tronics	087	N/A	Jun. 12, 2018	Jun. 11, 2019	
Attenuator	Weinachel Corp	58-30-33	N/A	Jun. 12, 2018	Jun. 11, 2019	
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 21, 2017	Sep. 20, 2020	
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Jun. 14, 2018	Jun. 13, 2020	
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May. 26, 2018	May. 25, 2020	
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Oct. 25, 2018	Oct. 24, 2019	
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep. 28, 2017	Sep. 27, 2019	

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### 7. PEAK OUTPUT POWER

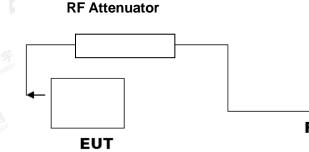
#### 7.1. MEASUREMENT PROCEDURE

For peak power test:

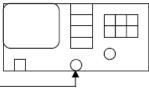
- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. RBW≥DTS bandwidth
- 3. VBW≥3\*RBW.
- 4. SPAN≥VBW.
- 5. Sweep: Auto.
- 6. Detector function: Peak.
- 7. Trace: Max hold.

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







**RF** Cable

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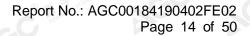
#### 7.3. LIMITS AND MEASUREMENT RESULT

PEAK OUTPUT POWER MEASUREMENT RESULT FOR GFSK MOUDULATION						
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail			
2.402	1.225	30	Pass			
2.440	2.761	30	Pass			
2.480	4.315	30	Pass			
	СНО	The Strate Contraction of the School	Contain Niesie			

ALIGN AUTO Avg Type: Log-Pwr Avg|Hold:>100/100 :06:42 PM Apr 25, 2019 Peak Search 1 2.402280000000 GHz PN0: Fast IFGain:Low 2345 Trig: Free Run Atten: 20 dB **Next Peak** Mkr1 2.402 280 GHz 1.225 dBm 10 dB/div Ref 10.00 dBm **Next Pk Right** Next Pk Left Marker Delta Mkr→CF Mkr→Ref Lv More 1 of 2 Center 2.402000 GHz #Res BW 1.5 MHz Span 5.000 MHz Sweep 1.000 ms (1001 pts) #VBW 5.0 MHz

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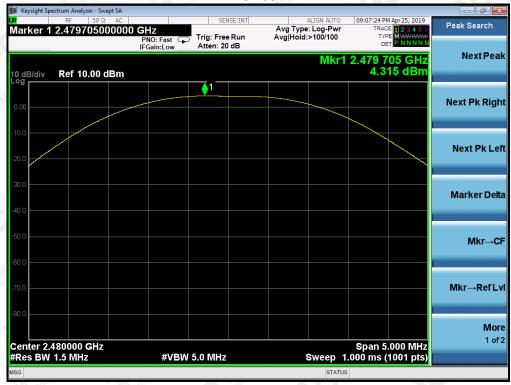




CH19



CH39



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#### 8.6 DB BANDWIDTH

#### 8.1. 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 Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW≥3×RBW.
- 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.

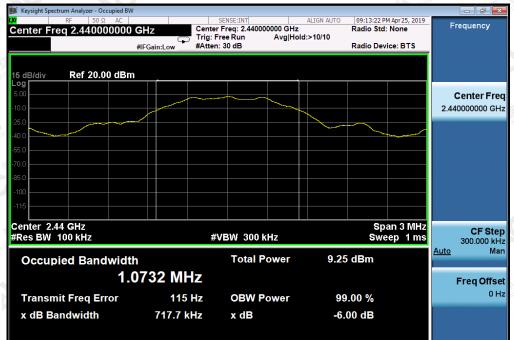
#### 8.3. LIMITS AND MEASUREMENT RESULTS

	LIMITS AND MEASUREMENT RESULT									
Annicable Limite		Applicable Limits								
Applicable Limits	Test Data (k	Hz)	Criteria							
THE AND	Low Channel	710.5	PASS							
>500KHZ	Middle Channel	717.7	PASS							
GO NO	High Channel	714.0	PASS							

#### 09:12:57 PM Apr 25, 2019 Radio Std: None Center Freq: 2.402000000 GHz Trig: Free Run Avg|Hol #Atten: 30 dB Frequency Avg|Hold:>10/10 Radio Device: BTS #IFGain:Low Ref 20.00 dBm **Center Free** 2.402000000 GHz Center 2.402 GHz #Res BW 100 kHz Span 3 MHz CF Step #VBW 300 kHz Sweep 1 ms 300.000 kH Auto Ma **Total Power** 7.80 dBm Occupied Bandwidth 1.0765 MHz Freq Offse 0 H Transmit Freq Error 11.614 kHz **OBW Power** 99.00 % x dB Bandwidth 710.5 kHz x dB -6.00 dB

#### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

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#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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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								
	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 PASS						

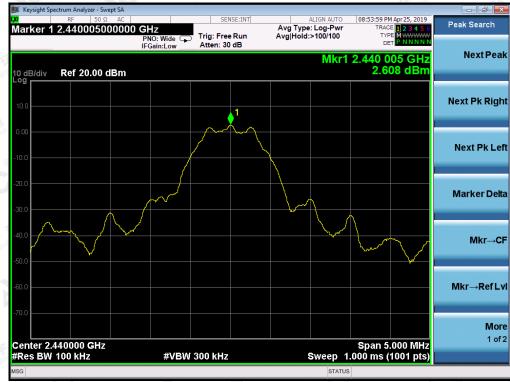
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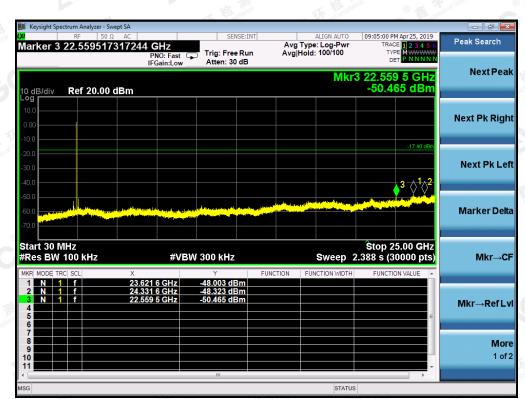
#### TEST RESULT FOR ENTIRE FREQUENCY RANGE GFSK MODULATION IN LOW CHANNEL

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#### GFSK MODULATION IN MIDDLE CHANNEL

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#### GFSK MODULATION IN HIGH CHANNEL

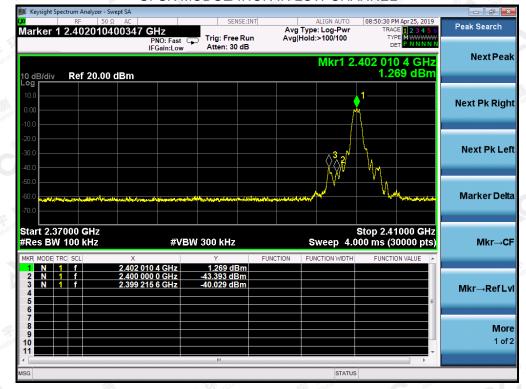
Note: The peak emissions without marker on the above plots are fundamental wave and need not to compare with the limit.

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#### **TEST RESULT FOR BAND EDGE** GFSK MODULATION IN LOW CHANNEL

GFSK MODULATION IN HIGH CHANNEL



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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 SPA Trace 1 Max hold, then View.

Note: The method of PKPSD in the KDB 558074 item 10.2 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**

Channel No.	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low Channel	-13.915	8 6	Pass
Middle Channel	-12.570	8	Pass
High Channel	-11.189	8	Pass

#### Peak Search Avg Type: Log-Pwi Avg|Hold: 100/100 Trig: Free Run Next Pea Mkr1 2.402 000 9 GHz -13.915 dBm Ref 10.00 dBm dB/div Next Pk Righ Next Pk Left WALL WAR Marker Delta Mkr→CF Mkr→RefLy More 1 of 2 Center 2.402000 GHz Span 5.000 MHz Res BW 3.0 kHz #VBW 10 kHz Sweep 527

TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

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#### TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



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#### **11. RADIATED EMISSION**

#### 11.1. MEASUREMENT PROCEDURE

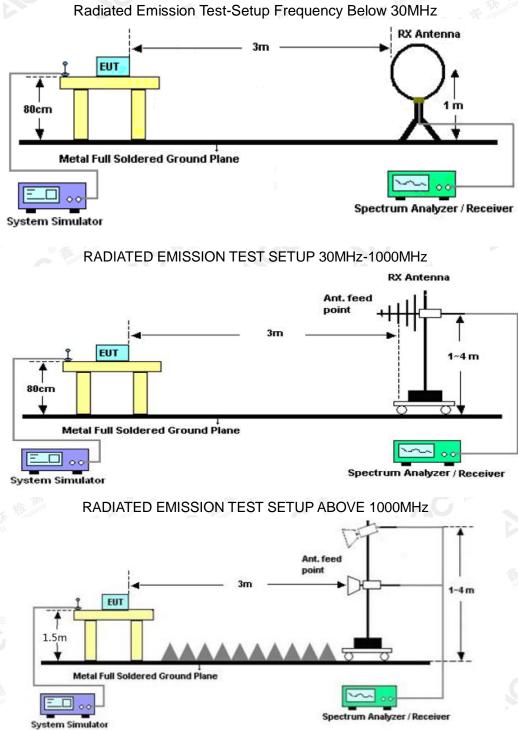
- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated 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 emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. 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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#### 11.2. TEST SETUP



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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 (micorvolts/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	8 A A A A A A A A A A A A A A A A A A A
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**

No emission found between lowest internal used/generated frequencies to 30MHz.

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EUT				Bluetooth Headphone Model Name			A	H-GC25W	Station				
Temp	bera	ture	9	25°	С	obal Cantelling	an of Global Compl	R	elative l	Humidi	t <b>y</b> 5	5.4%	Alles
Pres	sure	)		960	hPa	CO T	20	Т	est Volta	age	N	lormal Voltage	THE THE
Test	Мос	le		Mod	le 1 📄	16	FILL STORE	Α	Antenna			lorizontal	Countra
	66. 227		dBuV/m				Mayan	3			w Survey	Limit: Margin:	
	-13												
		30.00		224.00	321.00	418.00	515.00	612.		9.00 E	806.00	1000.00 MHz	
		30.000			321.00 Factor		515.00						
	3		0 127.00 Freq. MHz	224.00 Reading dBuV	321.00 Factor dB/m	418.00 Measurement dBuV/m	515.00 Limit dBuV/m	612. Over dB	00 709 Detector	a.oo a	806.00 Table	1000.00 MHz	
	<ul> <li>3</li> <li>No.</li> <li>1</li> </ul>		0 127.00 Freq. MHz 47.7833	224.00 Reading dBuV 1.23	321.00 Factor dB/m 19.81	418.00 Measurement dBuV/m 21.04	515.00 Limit dBuV/m 40.00 -	612. Over dB -18.96	00 709 Detector peak	a.oo a Antenna Height	06.00 Table Degree	1000.00 MHz	
	No.		0 127.00 Freq. MHz 47.7833 152.8667	224.00 Reading dBuV 1.23 -0.58	321.00 Factor dB/m 19.81 19.20	418.00 Measurement dBuV/m 21.04 18.62	515.00 Limit dBuV/m 40.00 - 43.50 -	612. Over dB -18.96 -24.88	00 709 Detector peak peak	a.oo a Antenna Height	06.00 Table Degree	1000.00 MHz	
	<ul> <li>3</li> <li>No.</li> <li>1</li> </ul>		0 127.00 Freq. MHz 47.7833 152.8667 558.6500	224.00 Reading dBuV 1.23 -0.58 0.36	321.00 Factor dB/m 19.81 19.20 26.14	418.00 Measurement dBuV/m 21.04 18.62 26.50	515.00 Limit dBuV/m 40.00 - 43.50 - 46.00 -	612. Over dB -18.96 -24.88 -19.50	00 709 Detector peak peak peak	a.oo a Antenna Height	06.00 Table Degree	1000.00 MHz	
	No.		0 127.00 Freq. MHz 47.7833 152.8667 558.6500 654.0333	224.00 Reading dBuV 1.23 -0.58 0.36 1.27	321.00 Factor dB/m 19.81 19.20 26.14 27.60	418.00 Measurement dBuV/m 21.04 18.62 26.50 28.87	515.00 Limit dBuV/m 40.00 - 43.50 - 46.00 -	612. Over dB -18.96 -24.88 -19.50 -17.13	00 709 Detector peak peak peak peak	a.oo a Antenna Height	06.00 Table Degree	1000.00 MHz	
	No.		0 127.00 Freq. MHz 47.7833 152.8667 558.6500	224.00 Reading dBuV 1.23 -0.58 0.36	321.00 Factor dB/m 19.81 19.20 26.14	418.00 Measurement dBuV/m 21.04 18.62 26.50	515.00 Limit dBuV/m 40.00 - 43.50 - 46.00 - 46.00 -	612. Over dB -18.96 -24.88 -19.50	00 709 Detector peak peak peak peak peak	a.oo a Antenna Height	06.00 Table Degree	1000.00 MHz	

#### **RADIATED EMISSION BELOW 1GHZ**

**RESULT: PASS** 

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			Bluetooth Headphone					del Name			Attest	25W	
era	ture	•	25°	С	C A C	tion of Global	Re	lative Hun	nidity	<b>y</b> 5	5.4%	S	
sure	•		960	hPa	GU		Tes				lormal \	√oltag	e
Nod	le		Mod	de 1	下位	pliance	An				Vertical		
66.	9 d	BuV∕m									Limit: Margin:		
27	1	hunna	Manner	w.M.J.	mahan	www.www.ww	3 MWM	and when when	<b>Å</b> whore	nw~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
-13	1		224.00	wMuh-mh	418.00	515.00	612.00			n,,,/++++++++++++++++++++++++++++++++++		6 	MHz
-13 3						515.00	612.00	0 709.00 Anti	80 enna	)6.00 Table	1	000.00	
-13	0.000	) 127.00	224.00	321.00	418.00	515.00	612.00	0 709.00 Detector	80 enna	06.00	1		
-13 3	0.000	) 127.00 Freq.	224.00 Reading	321.00 Factor	418.00 Measurement	515.00 t Limit ( dBuV/m	612.00 Over	0 709.00 Detector	80 enna iight	06.00 Table Degree	1	000.00	
-13 3 No.	0.000	0 127.00 Freq. MHz	224.00 Reading dBuV	321.00 Factor dB/m	418.00 Measurement dBuV/m	515.00 t Limit ( dBuV/m 40.00 -2	612.00 Over dB	0 709.00 Detector	80 enna iight	06.00 Table Degree	1	000.00	
-13 3 No.	0.000	0 127.00 Freq. MHz 51.0167	224.00 Reading dBuV -0.05	321.00 Factor dB/m 19.64	418.00 Measurement dBuV/m 19.59	515.00 t Limit ( dBuV/m 40.00 -2 43.50 -2	612.00 Over dB 20.41	0 709.00 Detector He peak	80 enna iight	06.00 Table Degree	1	000.00	
-13 3 No. 1 2	0.000	0 127.00 Freq. MHz 51.0167 143.1667	224.00 Reading dBuV -0.05 -0.77	321.00 Factor dB/m 19.64 19.22	418.00 Measurement dBuV/m 19.59 18.45	515.00 t Limit ( dBuV/m 40.00 -2 43.50 -2 46.00 -	612.00 Over dB 20.41 25.05	0 709.00 Detector Peak peak	80 enna iight	06.00 Table Degree	1	000.00	
-13 3 No. 1 2 3	0.000	0 127.00 Freq. MHz 51.0167 143.1667 578.0500	224.00 Reading dBuV -0.05 -0.77 1.44	321.00 Factor dB/m 19.64 19.22 26.52	418.00 Measurement dBuV/m 19.59 18.45 27.96	515.00 t Limit ( dBuV/m 40.00 -2 43.50 -2 46.00 -2	612.00 Over C dB 20.41 25.05 18.04	0 709.00 Detector He peak peak peak	80 enna iight	06.00 Table Degree	1	000.00	

#### RESULT: PASS Note:

- 1. Factor=Antenna Factor + Cable loss, Margin=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.: AGC00184190402FE02 Page 29 of 50

EUT	Bluetooth Headphone	Model Name	AH-GC25W						
Temperature	25° C	Relative Humidity	55.4%						
Pressure	960hPa	Test Voltage	Normal Voltage						
Test Mode	Mode 1	Antenna	Horizontal						

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

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4804.000	41.36	0.08	41.44	74	-32.56	peak
4804.000	37.59	0.08	37.67	54	-16.33	AVG
7206.000	36.51	2.21	38.72	74	-35.28	peak
7206.000	31.92	2.21	34.13	54	-19.87	AVG
The short Glos	(B) The Find Globa	C atation of C				
Allesu	Allesian	G M				litte:
Remark:					A allance	The Compliance
actor = Ante	enna Factor + Ca	ble Loss – I	Pre-amplifier.	4.7	Jobal Colline	F not Globa
		inance	The complete	(C) the stor of		Mestern .

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EUT	Bluetooth Headphone	Model Name	AH-GC25W
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Exercise and						
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin 🍏	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4804.000	41.89	0.08	41.97	74	-32.03	peak
4804.000	37.62	0.08	37.7	54	-16.3	AVG
7206.000	35.23	2.21	37.44	74	-36.56	peak
7206.000	31.59	2.21	33.8	54	-20.2	AVG
	The Completion	The Wood Consultance	© the station of state		or of Gill	

ractor Antenna Factor Jable Loss - Pre olitie

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EUT	Bluetooth Headphone	Model Name	AH-GC25W
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal

mission Level	Limits	Margin	
		iviargin	
(dBµV/m)	(dBµV/m)	(dB)	Value Type
40.46	74	-33.54	🐀 peak
36.4	54	-17.6	AVG
37.92	74	-36.08	peak
34.25	54	-19.75	AVG
			100-
		12 - The	the mpliance
amplifier.	The state	abal Comp.	F Global
	amplifier.	NO NO	NO NO

EUT	Bluetooth Headphone	Model Name	AH-GC25W
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	40.85	0.14	40.99	74	-33.01	peak
4880.000	36.16	0.14	36.3	54	-17.7	AVG
7320.000	35.83	2.36	38.19	74	-35.81	peak
7320.000	31.41	2.36	33.77	54	-20.23	AVG
® ##	The nation of the	tation Global	a state station -	CC Alles		
emark:			6			1117-

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EUT	Bluetooth Headphone	Model Name	AH-GC25W
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Frequency	Meter Reading	Factor	<b>Emission Level</b>	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4960.000	39.76	0.22	39.98	74	-34.02	🐀 peak
4960.000	34.97	0.22	35.19	54	-18.81	AVG
7440.000	35.1	2.64	37.74	74	-36.26	peak
7440.000	30.71	2.64	33.35	54	-20.65	AVG
Fire Front Globa	Clobal Clobal	C Station of Git		- 6		
Attestan	Attestation	C. Mean				110-
emark: 🦳					213 - Files	the polance
actor = Ante	enna Factor + Ca	able Loss – F	Pre-amplifier.	11	inbal Comp	F of Global
				0 - 0 - 1		Z

EUT	Bluetooth Headphone	Model Name	AH-GC25W
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	39.62	0.22	39.84	74	-34.16	peak
4960.000	35.22	0.22	35.44	54	-18.56	AVG
7440.000	34.82	2.64	37.46	74	-36.54	peak
7440.000	30.26	2.64	32.9	54	-21.1	AVG
	AND AND	The moliance	A Clob	() <i>I</i>	n of Globe	C Paul
2	The company	F Global Cu	B station o	Attest		
emark: 🍏 🕺	ion of Car	testation		G		

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

#### RESULT: PASS

#### Note:

Other emissions from 1G to 25 GHz are considered as ambient noise. No recording in the test report.

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

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

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EUT	Bluetooth Headphone	Model Name	AH-GC25W
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal







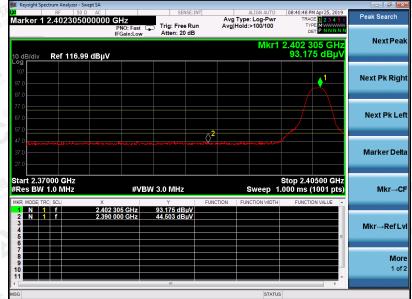
**RESULT: PASS** 

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Bluetooth Headphone	Model Name	AH-GC25W
25° C	Relative Humidity	55.4%
960hPa	Test Voltage	Normal Voltage
Mode 1	Antenna	Vertical
	25° C 960hPa	25° C     Relative Humidity       960hPa     Test Voltage



AV



**RESULT: PASS** 

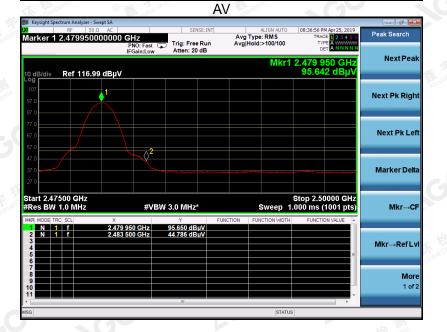
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and the second sec			
EUT	Bluetooth Headphone	Model Name	AH-GC25W
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal
			Globa Globa





**RESULT: PASS** 

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EUT	Bluetooth Headphone	Model Name	AH-GC25W
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical





#### **RESULT: PASS**

**Note**: The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB( $\mu$ V) to represent the Amplitude. Use the F dB( $\mu$ V/m) to represent the Field Strength. So A=F.

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## **12. FCC LINE CONDUCTED EMISSION TEST**

#### 12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

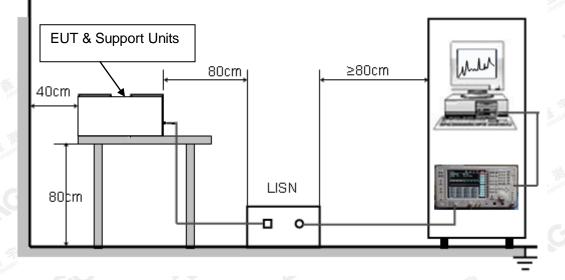
Frequency	Maximum RF Line Voltage		
Frequency	Q.P.( dBuV)	Average( dBuV)	
150kHz~500kHz	66-56	56-46	
500kHz~5MHz	56	46	
5MHz~30MHz	60	50	

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



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# 12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 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 equipments received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC charging voltage by Adapter which received AC120V/60Hz power by 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

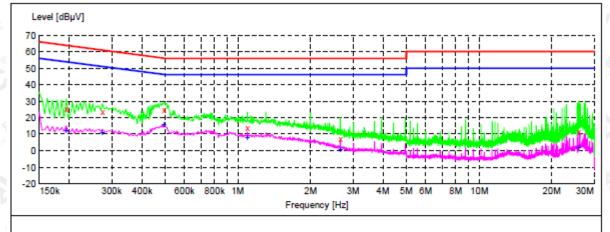
- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were 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.

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# 12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

Line Conducted Emission Test Line 1-L



### MEASUREMENT RESULT: "TEST fin"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.194000	25.20	10.3	64	38.7	OP	L1	FLO
0.274000	23.50	10.2	61	37.5	Q̃₽	L1	FLO
0.494000	24.80	10.3	56	31.3	QP	L1	FLO
1.094000	13.70	10.4	56	42.3	QP	L1	FLO
2.658000	7.20	10.4	56	48.8	QP	L1	FLO
25.842000	11.60	11.2	60	48.4	QP	L1	FLO

### MEASUREMENT RESULT: "TEST fin2"

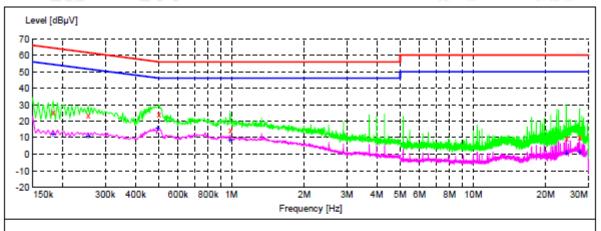
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.194000 0.274000 0.494000 1.094000 2.658000 25.842000	12.70 11.30 16.50 8.50 1.40 2.40	10.3 10.2 10.3 10.4 10.4 11.2	54 51 46 46 50	41.2 39.7 29.6 37.5 44.6 47.6	AV AV AV AV AV AV	L1 L1 L1 L1 L1 L1	FLO FLO FLO FLO FLO FLO

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Line Conducted Emission Test Line 2-N



#### MEASUREMENT RESULT: "TEST fin"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.182000 0.254000 0.498000 0.986000 24.338000	25.30 23.50 24.30 14.70 9.60	10.3 10.2 10.3 10.4 11.1	64 62 56 56 60	39.1 38.1 31.7 41.3 50.4	QP QP QP	N N N N	FLO FLO FLO FLO FLO
27.654000	10.00	11.2	60	50.0	QP	N	FLO

#### MEASUREMENT RESULT: "TEST fin2"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE	
0.182000	12.60	10.3	54	41.8	AV	N	FLO	
0.254000	11.50	10.2	52	40.1	AV	N	FLO	
0.494000	16.50	10.3	46	29.6	AV	N	FLO	
0.986000	9.20	10.4	46	36.8	AV	N	FLO	
24.338000	1.20	11.1	50	48.8	AV	N	FLO	
27.654000	1.50	11.2	50	48.5	AV	N	FLO	

### **RESULT: PASS**

Note: All the test modes had been tested, the mode 1 was the worst case. Only the data of the worst case would be record in this test report.

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# APPENDIX A: PHOTOGRAPHS OF TEST SETUP

RADIATED EMISSION TEST SETUP BELOW 1GHZ



RADIATED EMISSION TEST SETUP ABOVE 1GHZ



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# CONDUCTED EMISSION TEST SETUP



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# APPENDIX B: PHOTOGRAPHS OF EUT

ALL VIEW OF EUT



#### TOP VIEW OF EUT



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# BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



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# BACK VIEW OF EUT



LEFT VIEW OF EUT



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VIEW OF EUT(PORT)



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**OPEN VIEW OF EUT-2** 

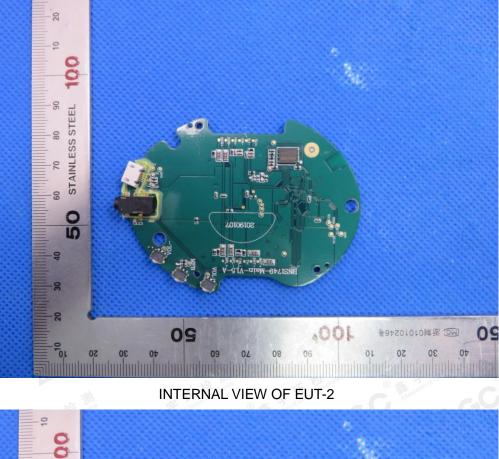


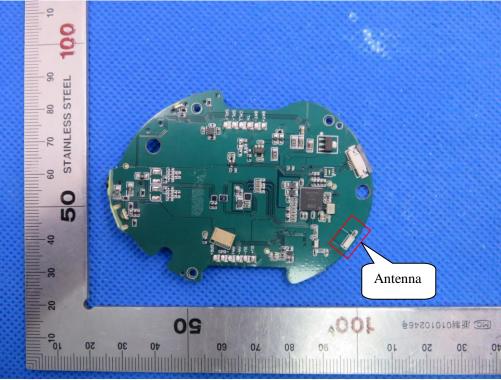
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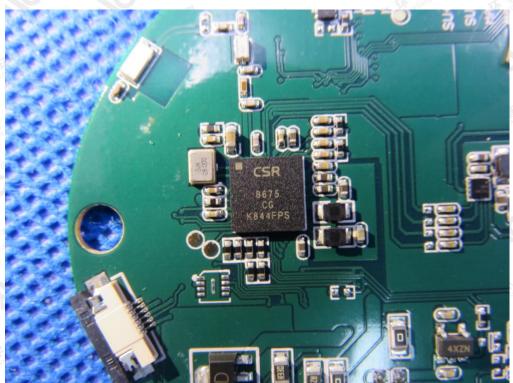




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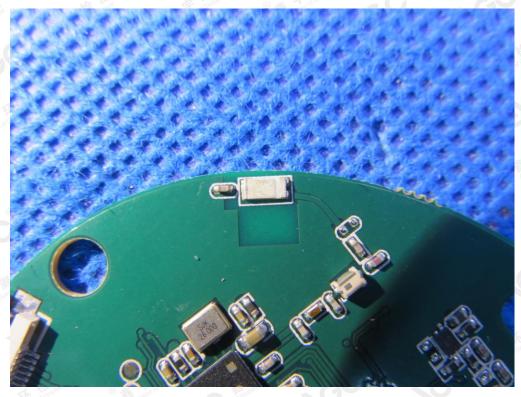


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**INTERNAL VIEW OF EUT-3** 

**INTERNAL VIEW OF EUT-4** 

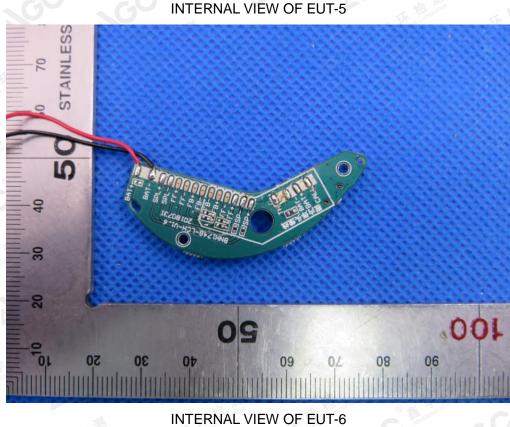


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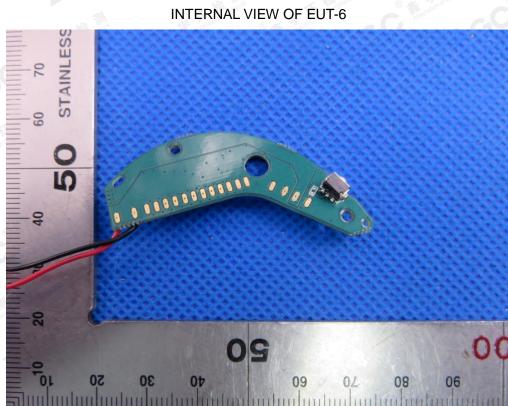




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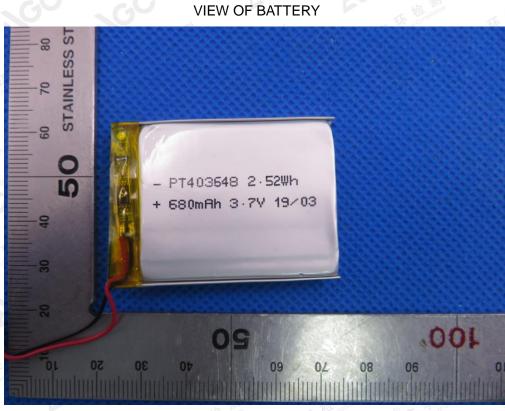
### **INTERNAL VIEW OF EUT-5**



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---END OF REPORT----

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