

# **FCC Test Report**

Report No.: AGC01612200101FE02

**FCC ID** : 2AR8X-MH670

**APPLICATION PURPOSE** : Original Equipment

**PRODUCT DESIGNATION**: MH670 gaming headphones

**BRAND NAME** : COOLER MASTER

MODEL NAME : MH-670

**APPLICANT** : Cooler Master Technology Inc.

**DATE OF ISSUE** : Jan. 17, 2020

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

**REPORT VERSION**: V1.0

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#### REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	9/	Jan. 17, 2020	Valid	Initial Release





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#### 1. VERIFICATION OF COMPLIANCE

Cooler Master Technology Inc.	
8F., No788-1, Zhongzheng Rd., Zhonghe Dist., New Taipei City 23586, Taiwan	
GUANGDONG TAKSTAR ELECTRONIC CO., LTD.	
DINGGANG, NO.5 TEAM, XIALIAO VILLAGE, LONGXI TOWN, BOLUO COUNTY, HUIZHOU CITY	
Cooler Master Technology Inc.	
8F., No788-1, Zhongzheng Rd., Zhonghe Dist., New Taipei City 23586, Taiwan	
MH670 gaming headphones	
COOLER MASTER	
MH-670	
Jan. 02, 2020~Jan. 17, 2020	
No any deviation from the test method.	
Normal	
Pass	
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	Injon Hurong	
C CC T	Donjon Huang (Project Engineer)	Jan. 17, 2020
Reviewed By	Max Zhang	
NGC C	Max Zhang (Reviewer)	Jan. 17, 2020
Approved By	Forrest Oci	
CC CC	Forrest Lei ( Authorized Officer )	Jan. 17, 2020



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#### 2.GENERAL INFORMATION

#### 2.1PRODUCT DESCRIPTION

The EUT is designed as a "MH670 gaming headphones". 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	2.40335 GHz to 2.47935GHz		
RF Output Power	2.794dBm(Max)		
Modulation	GFSK		
Number of channels	39 Channel		
Antenna Designation	Two PCB Antenna which cannot support MIMO (Comply with requirements of the FCC part 15.203)		
Antenna Gain	0.4dBi		
Hardware Version	V0.3		
Software Version	V0.6		
Power Supply DC 3.7V by battery or DC 5V by adapter			

#### 2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
	1	2.40335GHz
100 CC	2	2.40535GHz
	3	2.40735GHz
-C	4	2.40935GHz
NO CO	5	2.41135GHz
	6	2.41335GHz
,0	7	2.41535GHz
2.40335~2.47935GHz	8	2.41735GHz
	9 0	2.41935GHz
, CO .	10	2.42135GHz
100 T	11)	2.42335GHz
·	12	2.42535GHz
CO C	13	2.42735GHz
	14	2.42935GHz



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15	2.43135GHz
16	2.43335GHz
17	2.43535GHz
18	2.43735GHz
19	2.43935GHz
20	2.44135GHz
21	2.44335GHz
22	2.44535GHz
23	2.44735GHz
24	2.44935GHz
25	2.45135GHz
26	2.45335GHz
27	2.45535GHz
28	2.45735GHz
29	2.45935GHz
30	2.46135GHz
31	2.46335GHz
32	2.46535GHz
33	2.46735GHz
34	2.46935GHz
35	2.47135GHz
36	2.47335GHz
37	2.47535GHz
38	2.47735GHz
39	2.47935GHz



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

This submittal(s) (test report) is intended for **FCC ID: 2AR8X-MH670** 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 ±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 = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB
- Uncertainty of total RF power, conducted,  $Uc = \pm 0.8dB$
- Uncertainty of RF power density, conducted, Uc = ±2.6dB
- Uncertainty of spurious emissions, conducted, Uc = ±2.7dB
- Uncertainty of Occupied Channel Bandwidth: Uc = ±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:

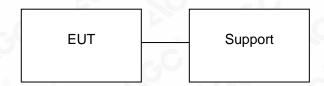
- 1. Only the result of the worst case was recorded in the report, if no other cases.
- 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
- 3. For Conducted Test method, a temporary antenna connector is provided by the manufacture.
- 4. EUT connects the computer through the serial port tool (USB TO TTL), and then enters the test mode through the test software **VMI debug v1.1.6.56**.



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#### 5. SYSTEM TEST CONFIGURATION

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



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

Item	Equipment	Model No.	ID or Specification	Remark
1	MH670 gaming headphones	MH-670	2AR8X-MH670	EUT
2	Adapter	MDY-08-ES	DC5V/2A	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		
<b>Designation Number</b>	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, 2019	Jun. 11, 2020
LISN	R&S	ESH2-Z5	100086	Aug. 26, 2019	Aug. 25, 2020
Test software	R&S	ES-K1 (Ver. V1.71)	N/A	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	Jun. 12, 2019	Jun. 11, 2020
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 12, 2019	Dec. 11, 2020
2.4GHz Fliter	EM Electronics	2400-2500MHz	N/A	Feb. 27, 2019	Feb. 26, 2020
Attenuator	ZHINAN	E-002	N/A	Aug. 26, 2019	Aug. 25, 2020
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 09, 2019	Sep. 08, 2021
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. 15, 2019	Oct. 14, 2020
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 09, 2019	Jan. 08, 2021
Test software	Tonscend	JS32-RE	N/A	N/A	N/A



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#### 7. PEAK OUTPUT POWER

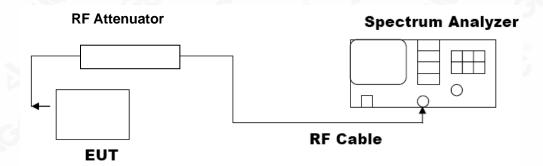
#### 7.1. MEASUREMENT PROCEDURE

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

#### Antenna 1

PEAK OUTPUT POWER MEASUREMENT RESULT FOR GFSK MOUDULATION					
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail		
2.40335	2.794	30	Pass		
2.44135	2.116	30	Pass		
2.47935	1.722	30	Pass		

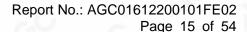




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#### CH20



#### **CH39**





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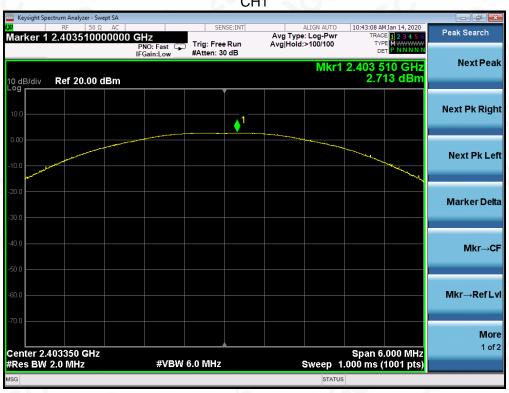


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#### Antenna 2

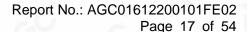
PEAK OUTPUT POWER MEASUREMENT RESULT FOR GFSK MOUDULATION						
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail			
2.40335	2.713	30	Pass			
2.44135	2.028	30	Pass			
2.47935	1.567	30	Pass			







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CH20









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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						
Ampliaghla Limita		Applicable Limits				
Applicable Limits	Test Data	(MHz)	Criteria			
>500KHZ	Low Channel	1.650	PASS			
	Middle Channel	1.625	PASS			
	High Channel	1.628	PASS			

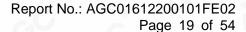
#### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL





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#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



Note: All modes of both antennas were tested, and the report only showed the worst data for the worst antenna (Antenna 1).



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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.

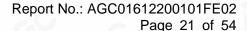
#### 9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

#### 9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT						
Augusta alda Limita	Measurement Res	sult				
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				

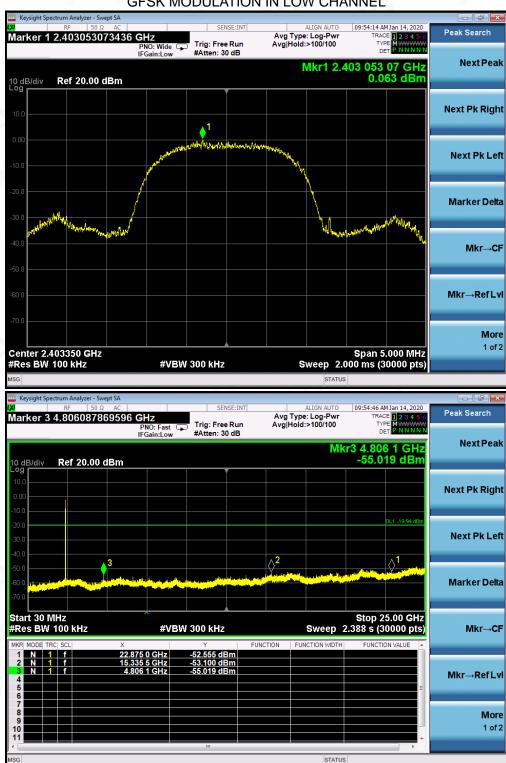






TEST RESULT FOR ENTIRE FREQUENCY RANGE

#### GFSK MODULATION IN LOW CHANNEL

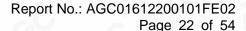




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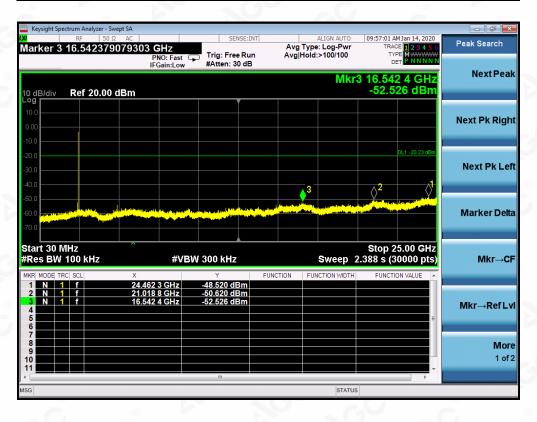
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#### GFSK MODULATION IN MIDDLE CHANNEL

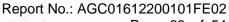






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Mkr→Ref Lv

More



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#### GFSK MODULATION IN HIGH CHANNEL Peak Search Marker 1 2.479405585186 GHz Avg Type: Log-Pwr Avg|Hold:>100/100 Trig: Free Run #Atten: 30 dB Next Peak Mkr1 2.479 -1.988 dBm Ref 20.00 dBm **Next Pk Right** Next Pk Left Marker Delta Mkr→CF Mkr→RefLv More Center 2.479350 GHz #Res BW 100 kHz Span 5.000 MHz Sweep 2.000 ms (30000 pts) #VBW 300 kHz Peak Search Avg Type: Log-Pw Avg|Hold:>100/100 rker 3 16.442495749858 GHz **Next Peak** Mkr3 16.442 5 GHz -52.903 dBm Ref 20.00 dBm **Next Pk Right Next Pk Left** Marker Delta Start 30 MHz #Res BW 100 kHz Stop 25.00 GHz **#VBW** 300 kHz Sweep 2.388 s (30000 pts) Mkr→CF

#### Note:

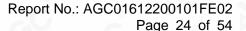
- 1. The peak emissions without marker on the above plots are fundamental wave and need not to compare with the limit
- 2. All modes of both antennas were tested, and the report only showed the worst data for the worst antenna (Antenna 1).



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STATUS





**TEST RESULT FOR BAND EDGE** 

### GFSK MODULATION IN LOW CHANNEL



#### GFSK MODULATION IN HIGH CHANNEL



Note: All modes of both antennas were tested, and the report only showed the worst data for the worst antenna (Antenna 1).



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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**

#### Antenna 1

Channel No.	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low Channel	-13.539	8	Pass
Middle Channel	-15.145	8	Pass
High Channel	-14.232	8	Pass

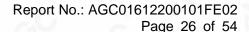
#### TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL





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TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



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



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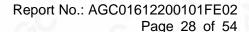
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#### Antenna 2

Channel No.	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low Channel	-14.055	8	Pass
Middle Channel	-15.088	8	Pass
High Channel	-14.798	8	Pass

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







TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



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



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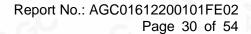
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#### 11. RADIATED EMISSION

#### 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.
- 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.

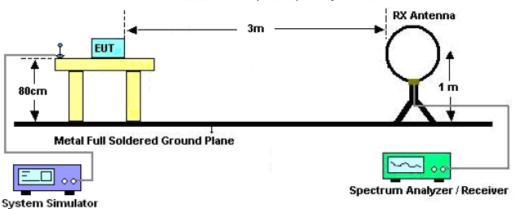




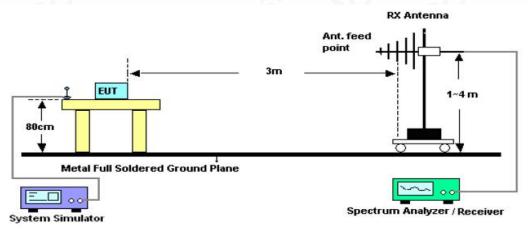


#### 11.2. TEST SETUP

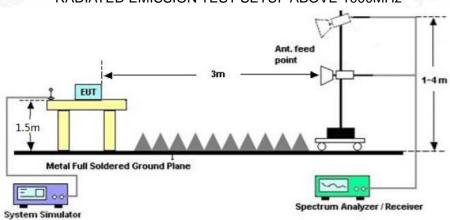
#### Radiated Emission Test-Setup Frequency Below 30MHz



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



#### RADIATED EMISSION TEST SETUP ABOVE 1000MHz





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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	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**

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



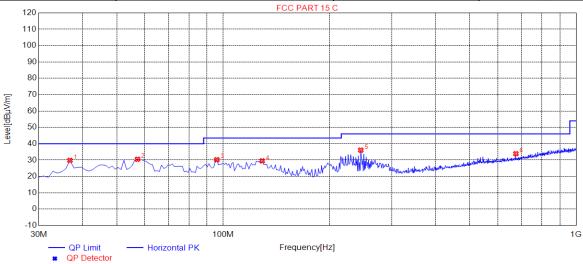
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#### **RADIATED EMISSION BELOW 1GHZ**

EUT	MH670 gaming headphones	Model Name	MH-670
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	36.7900	29.81	14.16	40.00	10.19	150	241	Horizontal
2	57.1600	30.51	14.13	40.00	9.49	150	247	Horizontal
3	95.9600	30.21	10.93	43.50	13.29	150	110	Horizontal
4	128.9400	29.52	14.08	43.50	13.98	150	234	Horizontal
5	245.3400	36.08	14.76	46.00	9.92	150	287	Horizontal
6	675.0500	33.90	25.56	46.00	12.10	150	290	Horizontal

**RESULT: PASS** 



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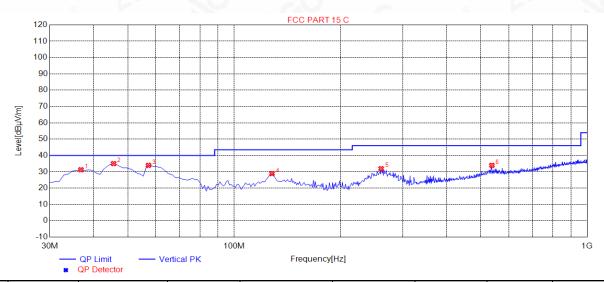
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EUT	MH670 gaming headphones	Model Name	MH-670
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	36.7900	31.27	14.16	40.00	8.73	150	279	Vertical
2	45.5200	35.03	14.80	40.00	4.97	150	345	Vertical
3	57.1600	33.95	14.13	40.00	6.05	150	146	Vertical
4	127.9700	28.91	14.01	43.50	14.59	150	191	Vertical
5	260.8600	31.92	14.63	46.00	14.08	150	39	Vertical
6	537.3100	33.95	22.98	46.00	12.05	150	7	Vertical

#### **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.
- 3. All modes of both antennas were tested, and the report only showed the worst data for the worst antenna (Antenna 1).



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

EUT	MH670 gaming headphones	Model Name	MH-670
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 Trees
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4806.7	47.58	0.08	47.66	74	-26.34	peak
4806.7	40.96	0.08	41.04	54	-12.96	AVG
7210.05	45.76	2.21	47.97	74	-26.03	peak
7210.05	39.74	2.21	41.95	54	-12.05	AVG
	®				©	
		(8)				(2)

EUT	MH670 gaming headphones	Model Name	MH-670
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

(dBµV)	(AD)	(-ID) //)			Value Type
( G D W V)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	10.00 . )
45.75	0.08	45.83	74	-28.17	peak
40.33	0.08	40.41	54	-13.59	AVG
42.28	2.21	44.49	74	-29.51	peak
36.96	2.21	39.17	54	-14.83	AVG
<u> </u>	(8)		64	-6-	
	40.33 42.28	40.33 0.08 42.28 2.21	40.33     0.08     40.41       42.28     2.21     44.49	40.33     0.08     40.41     54       42.28     2.21     44.49     74	40.33     0.08     40.41     54     -13.59       42.28     2.21     44.49     74     -29.51





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EUT	MH670 gaming headphones	Model Name	MH-670
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 Tone
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4882.700	47.14	0.14	47.28	74	-26.72	peak
4882.700	41.25	0.14	41.39	54	-12.61	AVG
7324.050	46.66	2.36	49.02	74	-24.98	peak
7324.050	38.87	2.36	41.23	54	-12.77	AVG
	®				@	
						(2)

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

EUT	MH670 gaming headphones	Model Name	MH-670
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)	
4882.700	45.66	0.14	45.8	74	-28.2	peak
4882.700	39.69	0.14	39.83	54	-14.17	AVG
7324.050	44.17	2.36	46.53	74	-27.47	peak
7324.050	38.88	2.36	41.24	54	-12.76	AVG
	-C	0		0	-C	8
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EUT	MH670 gaming headphones	Model Name	MH-670
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	\/-I T
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4958.700	46.96	0.22	47.18	74	-26.82	peak
4958.700	42.02	0.22	42.24	54	-11.76	AVG
7438.050	45.98	2.64	48.62	74	-25.38	peak
7438.050	41.17	2.64	43.81	54	-10.19	AVG
7.0	6	·		- 60	0	(0)

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

EUT	T MH670 gaming headphones		MH-670
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Value Type
4958.700	42.25	0.22	42.47	54	-11.53	AVG
7438.050	43.46	2.64	46.1	74	-27.9	peak
7438.050	37.23	2.64	39.87	54	-14.13	AVG
		<u> </u>			60	G
Remark:		20				0
actor = Anter	nna Factor + Cabl	e Loss – Pre-a	mplifier.		®	

RESULT: PASS

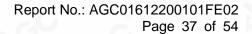
#### Note:

1. 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.

2. All modes of both antennas were tested, and the report only showed the worst data for the worst antenna (Antenna 1).



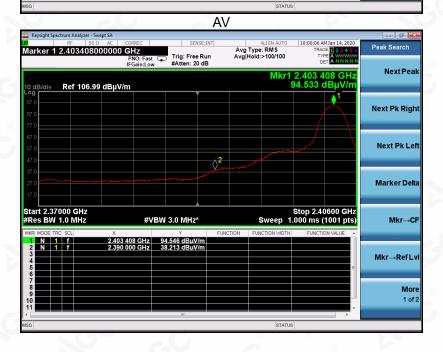




TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

EUT	MH670 gaming headphones	Model Name	MH-670
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal





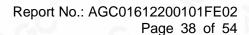
**RESULT: PASS** 



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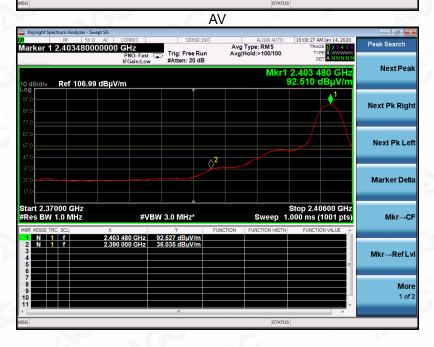
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EUT	MH670 gaming headphones	Model Name	MH-670	
Temperature	25° C	Relative Humidity	55.4%	
Pressure	960hPa	Test Voltage	Normal Voltage	
Test Mode	Mode 1	Antenna	Vertical	





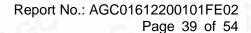
**RESULT: PASS** 



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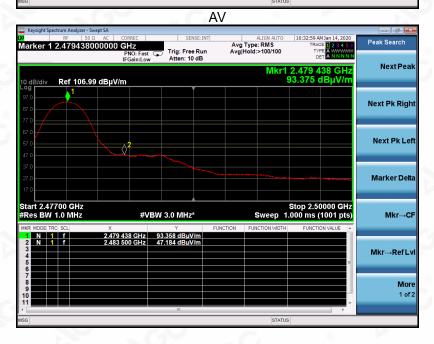
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EUT	MH670 gaming headphones	Model Name	MH-670
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal





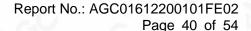
**RESULT: PASS** 



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**EUT Model Name** MH-670 MH670 gaming headphones **Temperature** 25° C **Relative Humidity** 55.4% **Pressure** 960hPa **Test Voltage** Normal Voltage **Test Mode** Mode 3 **Antenna** Vertical





**RESULT: PASS** 

### Note:

1. All modes of both antennas were tested, and the report only showed the worst data for the worst antenna (Antenna 1).



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# 12. FCC LINE CONDUCTED EMISSION TEST

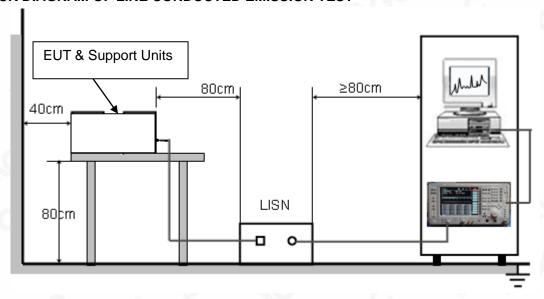
### 12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Francis	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

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

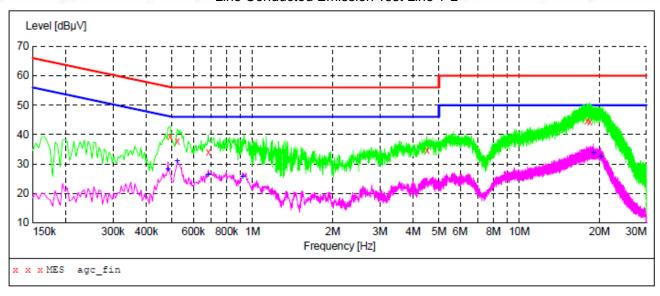






12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

Line Conducted Emission Test Line 1-L



### MEASUREMENT RESULT: "agc fin"

2020/1/10 Frequen			Limit dBµV	Margin dB	Detector	Line	PE
0.4900	000 39.40	11.3	56	16.8	QP	L1	FLO
0.5220	000 37.90	11.3	56	18.1	QP	L1	FLO
0.6820	000 34.10	11.3	56	21.9	QP	L1	FLO
4.5060	000 34.50	11.4	56	21.5	QP	L1	FLO
17.9380	000 44.70	12.2	60	15.3	QP	L1	FLO
18.3460	000 44.20	12.2	60	15.8	QP	L1	FLO

### MEASUREMENT RESULT: "agc fin2"

2020/1/10 0:54 Frequency MHz		Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.482000	28.20	11.3	46	18.1	AV	L1	FLO
0.522000	30.80	11.3	46	15.2	AV	L1	FLO
0.682000	26.30	11.3	46	19.7	AV	L1	FLO
0.918000	25.70	11.3	46	20.3	AV	L1	FLO
18.958000	33.60	12.2	50	16.4	AV	L1	FLO
20.190000	32.60	12.3	50	17.4	AV	L1	FLO



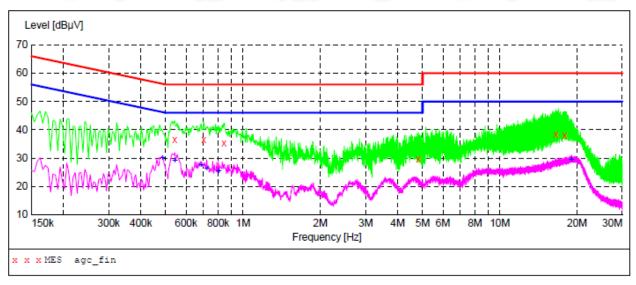
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#### MEASUREMENT RESULT: "agc fin"

Frequen	-	vel Transc BμV dE		Margin dB	Detector	Line	PE
0.5420	00 36.	.60 11.3	56	19.4	QP	N	FLO
0.7020	00 36.	.60 11.3	56	19.4	QP	N	FLO
0.8420	00 35.	.40 11.3	56	20.6	QP	N	FLO
4.8180	00 29.	.80 11.4	56	26.2	QP	N	FLO
16.5580	00 38.	.30 12.1	. 60	21.7	QP	N	FLO
17.8820	00 38.	.00 12.2	60	22.0	QP	N	FLO

### MEASUREMENT RESULT: "agc fin2"

2020/1/10	0:50						
Frequenc MH	4	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.48600	0 30.00	11.3	46	16.2	AV	N	FLO
0.54200	0 28.90	11.3	46	17.1	AV	N	FLO
0.68600	0 27.50	11.3	46	18.5	AV	N	FLO
0.72200	0 26.40	11.3	46	19.6	AV	N	FLO
0.80200	0 25.30	11.3	46	20.7	AV	N	FLO
18.99400	0 29.30	12.2	50	20.7	AV	N	FLO

#### **RESULT: PASS**

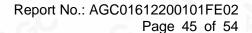
Note: All modes of both antennas were tested, and the report only showed the worst data for the worst antenna (Antenna 1).



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APPENDIX A: PHOTOGRAPHS OF TEST SETUP







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Report No.: AGC01612200101FE02

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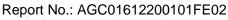
# CONDUCTED EMISSION TEST SETUP





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# **APPENDIX B: PHOTOGRAPHS OF EUT**

TOP VIEW OF EUT



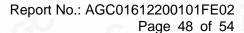
**BOTTOM VIEW OF EUT** 





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# FRONT VIEW OF EUT



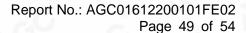
BACK VIEW OF EUT





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# LEFT VIEW OF EUT



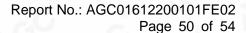
RIGHT VIEW OF EUT





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# **OPEN VIEW OF EUT**



**BATTERY VIEW OF EUT** 

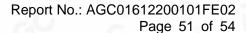




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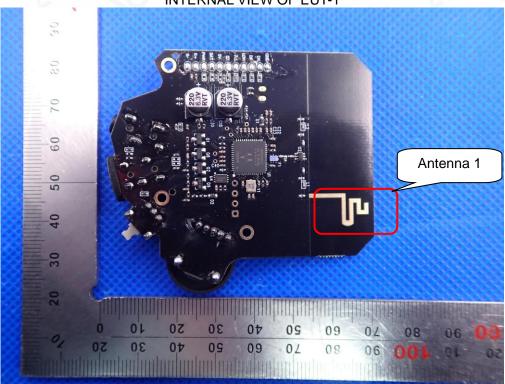
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,

Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China
Tel: +86-755 2523 4088 E-mail:agc@agc-cert.com Service Hotline:400 089 2118

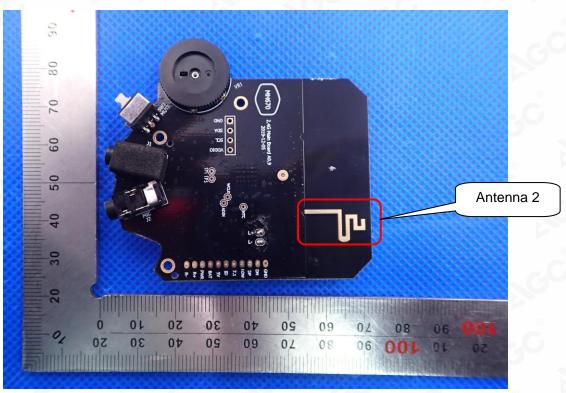








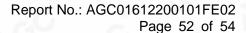
**INTERNAL VIEW OF EUT-2** 





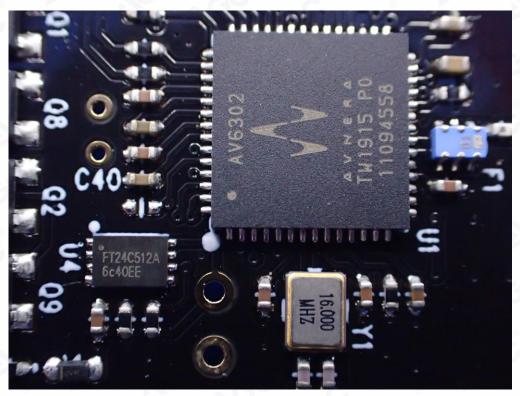
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Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,

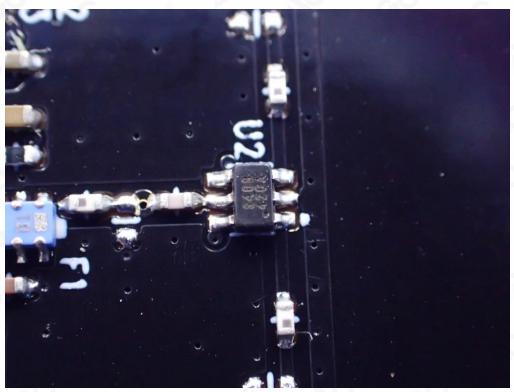




# **INTERNAL VIEW OF EUT-3**



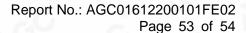
**INTERNAL VIEW OF EUT-4** 





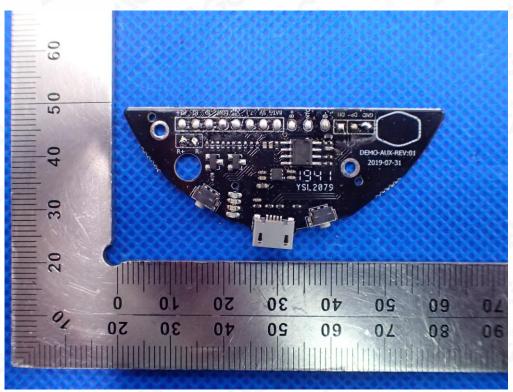
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Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,

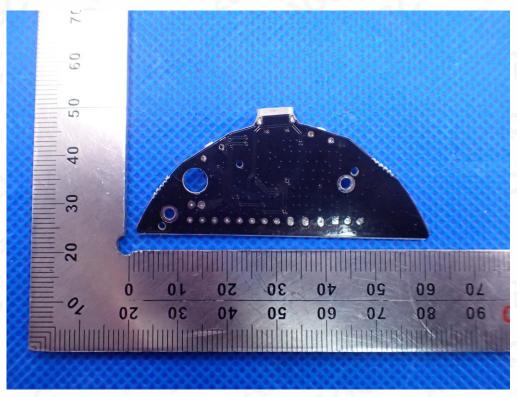




# **INTERNAL VIEW OF EUT-5**



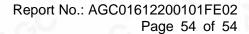
**INTERNAL VIEW OF EUT-6** 





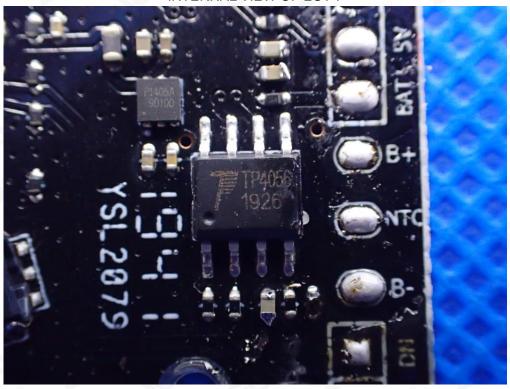
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Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,





**INTERNAL VIEW OF EUT-7** 



--END OF REPORT----



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