

# FCC Test Report

Report No.: AGC07716190801FE06A

**FCC ID** : 2AFENXK03S

**APPLICATION PURPOSE** : Class II Equipment

**PRODUCT DESIGNATION** : LED Projector

**BRAND NAME** : XGIMI

**MODEL NAME** : XK03S, XK04S, XK05S, XK06S, XK07S, XK08S, XK09S, XK10S, XK11S, XK12S, XK13S, XK14S, XK15S, XK16S, XK17S, XK18S, XK19S, XK20S, XK21S, XK22S, XK23S, XK24S, XK25S, XK26S, XK27S, XK28S, XK29S, XK30S, XK31S, XK32S

**APPLICANT** : Chengdu XGIMI Technology Co., Ltd.

**DATE OF ISSUE** : Jan. 09, 2021

**STANDARD(S)** : FCC Part 15.407

**TEST PROCEDURE(S)** : KDB 789033 D02 v02r01

**REPORT VERSION** : V1.0

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## REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jan. 09, 2021	Valid	Re-certification Report

### Note:

The original test report Ref. No. AGC07716190801FE06 dated Sep. 16, 2019, was modified on Jan. 09, 2021 to include the following changes:

- Changed the name of the Applicant
- Changed the name of the Manufacturer
- Changed the name and address of the Factory
- Changed the battery
- Change the main chip packaging substrate;
- Change the photos of EUT;
- So the Conducted Emission and Radiated Emission had been tested for the Class II permissive change.

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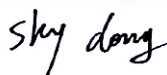
## 1. VERIFICATION OF CONFORMITY

<b>Applicant</b>	Chengdu XGIMI Technology Co., Ltd.
<b>Address</b>	Building Building A4, Tianfu Software Park, High-tech zone, Chengdu, Sichuan, China 610041
<b>Manufacturer</b>	Chengdu XGIMI Technology Co., Ltd.
<b>Address</b>	Building A4, Tianfu Software Park, High-tech zone, Chengdu, Sichuan, China 610041
<b>Factory 1</b>	TCL KING ELECTRICAL APPLIANCE (CHENG DU) CO., LTD.
<b>Address</b>	No.18 Kexin Road, Hi-Tech Development Zone (West Park), Chengdu, Sichuan
<b>Factory 2</b>	Yibin XGIMI Optoelectronics Co., Ltd.
<b>Address</b>	A3, Intelligent Terminal Industrial Park, Cuiping District, Yibin City, Sichuan Province P.R.China Room 328, Enterprise Service Center, No.17, West Section 3, Changjiang North Road, Lingang Economic Development Zone, Yibin City, Sichuan Province P.R. China
<b>Product Designation</b>	LED Projector
<b>Brand Name</b>	XGIMI
<b>Test Model</b>	XK03S
<b>Series Model</b>	XK04S, XK05S, XK06S, XK07S, XK08S, XK09S, XK10S, XK11S, XK12S, XK13S, XK14S, XK15S, XK16S, XK17S, XK18S, XK19S, XK20S, XK21S, XK22S, XK23S, XK24S, XK25S, XK26S, XK27S, XK28S, XK29S, XK30S, XK31S, XK32S
<b>Model Difference</b>	All the same except for the model name and different appearance color
<b>Date of test</b>	Dec. 04, 2020 to Jan. 08, 2021
<b>Deviation</b>	None
<b>Condition of Test Sample</b>	Normal
<b>Test Result</b>	Pass
<b>Report Template</b>	AGCRT-US-BGN/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 requirement of FCC Part 15 Rules requirement.

Prepared By



Sky Dong  
(Project Engineer)

Jan. 08, 2021


Reviewed By



Max Zhang  
(Reviewer)

Jan. 09, 2021

Approved By



Forrest Lei  
(Authorized Officer)

Jan. 09, 2021

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## 2. GENERAL INFORMATION

### 2.1. PRODUCT DESCRIPTION

The EUT is designed as “LED Projector”. It is designed by way of utilizing the OFDM technology to achieve the system operation.

A major technical description of EUT is described as following

<b>Operation Frequency</b>	5150 MHz~5250MHz;5725 MHz~5850MHz
<b>Output Power</b>	IEEE 802.11a20:17.12dBm; IEEE 802.11n(20):18.67dBm IEEE802.11n(40):17.31dBm
<b>Modulation</b>	BPSK, QPSK, 16QAM, 64QAM, 128QAM, 256QAM,OFDM
<b>Number of channels</b>	13
<b>Hardware Version</b>	V03
<b>Software Version</b>	V1.0.0
<b>Antenna Designation</b>	FPC Antenna
<b>Number of transmit chain</b>	2(802.11a/n20/n40 all used two antennas,but 802.11a support SISO and 802.11n20/n40 support MIMO)
<b>Directional gain</b>	All transmit signals are completely uncorrelated with each other
<b>Antenna Gain</b>	Ant 1: 5.76dBi Ant 2: 6.02dBi
<b>Power Supply</b>	DC 14.4V by battery or DC 19V by adapter

### 2.2. TABLE OF CARRIER FREQUENCIES

Frequency Band	Channel Number	Frequency	Frequency Band	Channel Number	Frequency
5150 GHz~ 5250GHz	36	5180 MHz	5725 GHz~ 5850GHz	149	5745 MHz
	38	5190 MHz		151	5755 MHz
	40	5200 MHz		153	5765 MHz
	44	5220 MHz		157	5785 MHz
	46	5230 MHz		159	5795 MHz
	48	5240 MHz		161	5805 MHz
				165	5825MHz

Note: For 20MHZ bandwidth system use Channel 36,40,44,48,149,153,157,161,165; For 40MHZ bandwidth system use Channel 38,46,151,159.

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

This submittal(s) (test report) is intended for **FCC ID: 2AFENXK03S** filing to comply with the FCC Part 15 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.

Others testing (listed at item 5.3) was performed according to the procedures in FCC Part 15.407 rules KDB 789033 D02

### 2.5. SPECIAL ACCESSORIES

Refer to section 5.2.

### 2.6. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

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### 3. MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the “Guide to the Expression of Uncertainty in measurement” (GUM) published by CISPR and ANSI.

- Uncertainty of Conducted Emission,  $U_c = \pm 3.2$  dB
- Uncertainty of Radiated Emission below 1GHz,  $U_c = \pm 3.9$  dB
- Uncertainty of Radiated Emission above 1GHz,  $U_c = \pm 4.8$  dB

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#### 4. DESCRIPTION OF TEST MODES

Mode	Available channel	Tested channel	Modulation	Date rate(Mbps)
802.11a/n20	36,40,44,48,149,153,157,161,165	36,38,48,149, 157,165	OFDM	6/6.5
802.11n40	38,46,151,159	38,46, 151,159	OFDM	13.5

#### Note:

1. The EUT has been set to operate continuously on tested channel individually, and the EUT is operating at its maximum duty cycle>or equal 98%
2. All modes under which configure applicable have been tested and the worst mode test data recording in the test report, if no other mode data.
3. The test software is the SecureCRTSecure\_V7.0.0.326 which can set the EUT into the individual test modes.

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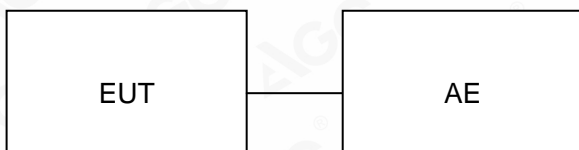




## 5. SYSTEM TEST CONFIGURATION

### 5.1. CONFIGURATION OF EUT SYSTEM

Configure 1:



### 5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	LED Projector	XK03S	2AFENXK03S	EUT
2	Adapter	HKA06519034-6J	Input: AC 100-240V, 50/60Hz, 1.5A Output: DC 19V --- 3.42A	Market with EUT
3	Loudspeaker	--	--	AE
4	PC	Xiaomi	Air 13.3	AE

### 5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.209	Radiated Emission	Compliant
§15.207	Line Conduction Emission	Compliant

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## 6. TEST FACILITY

<b>Test Site</b>	Attestation of Global Compliance (Shenzhen) Co., Ltd
<b>Location</b>	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
<b>FCC Test Firm Registration Number</b>	975832
<b>A2LA Cert. No.</b>	5054.02
<b>Description</b>	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	May 15, 2020	May 14, 2021
LISN	R&S	ESH2-Z5	100086	Jul. 03,2020	Jul. 02,2021
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	May 15, 2020	May 14, 2021
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	May 17, 2019	May 16, 2021
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Sep. 03, 2020	Sep. 02, 2022
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 09, 2019	Jan. 08, 2021
Test software	FARA	EZ-EMC (Ver RA-03A)	N/A	N/A	N/A

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## 7. RADIATED EMISSION

### 7.1. MEASUREMENT PROCEDURE

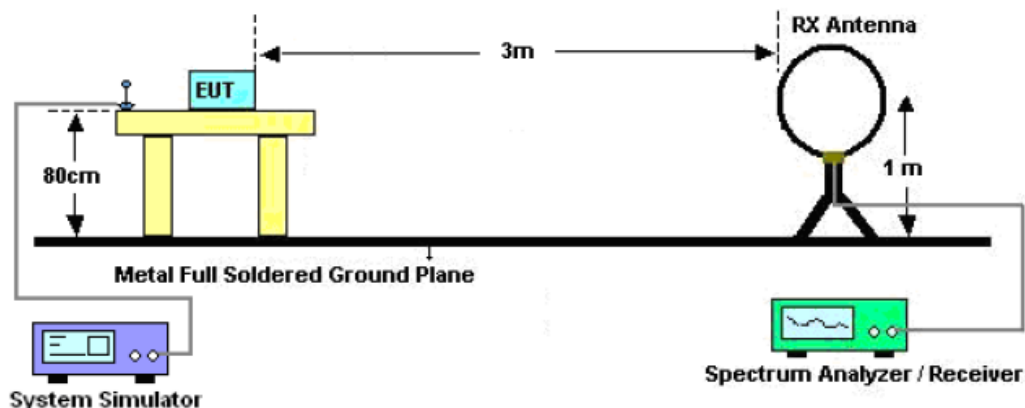
1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated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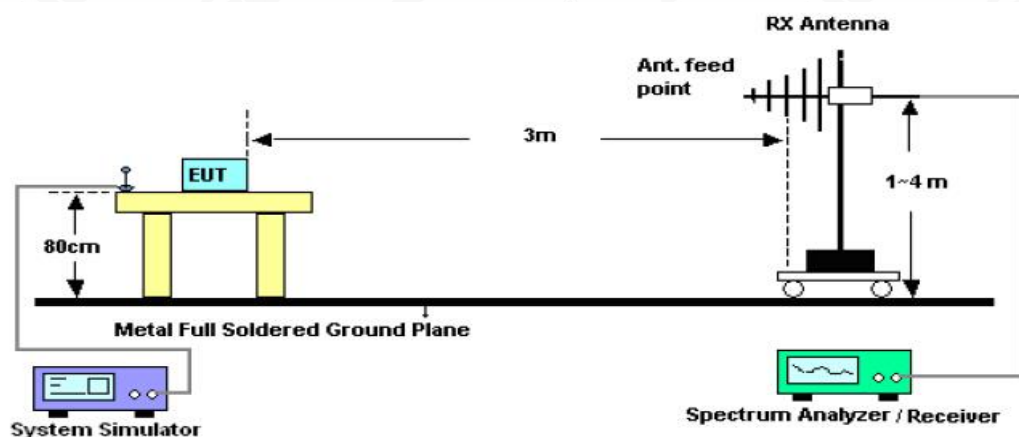


## 7.2. TEST SETUP

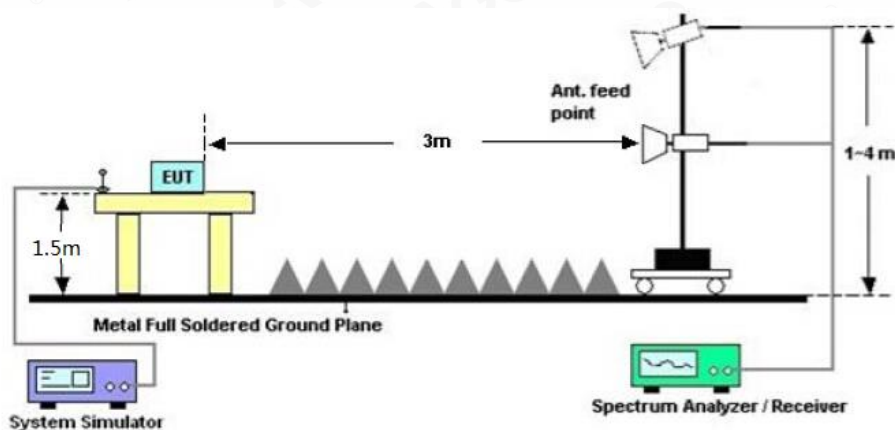
### Radiated Emission Test-Setup Frequency Below 30MHz



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



### RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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### 7.3. LIMITS AND MEASUREMENT RESULT

15.209(a) 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.

### 7.4. 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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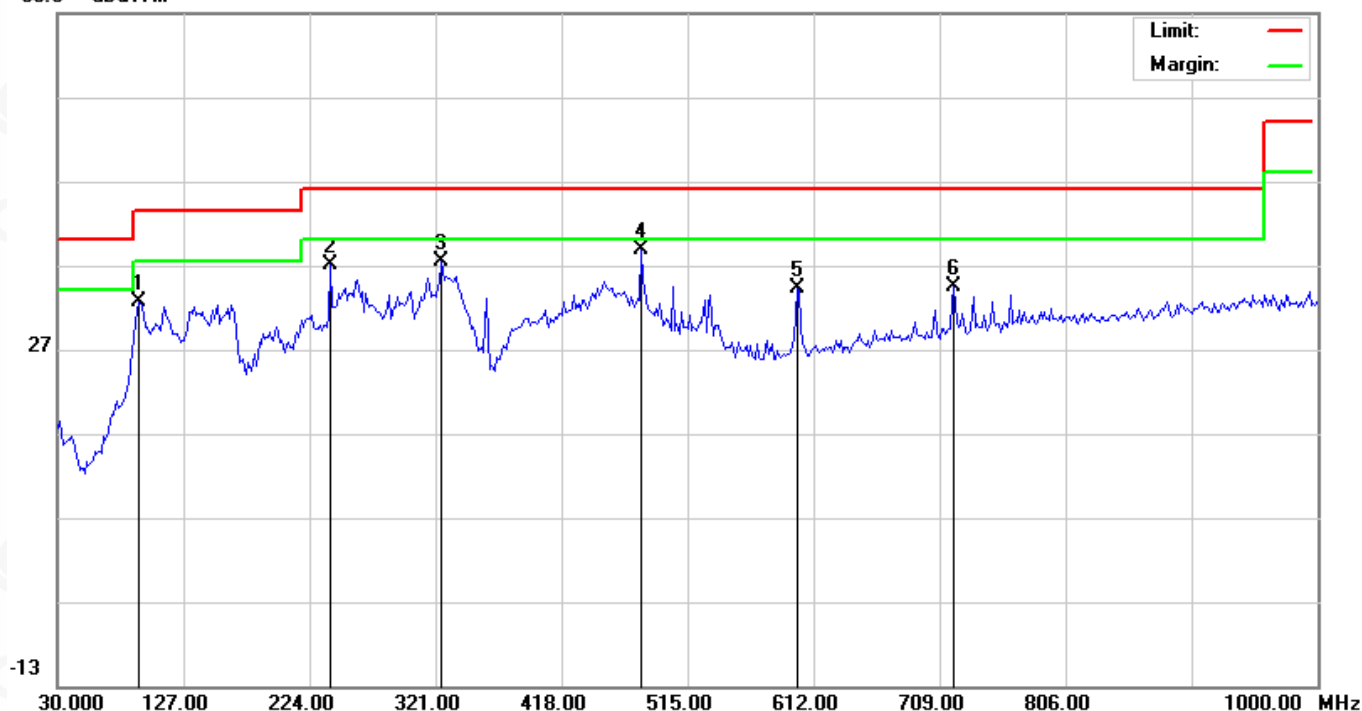
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### RADIATED EMISSION BELOW 1GHZ

EUT	LED Projector	Model Name	XK03S
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal

66.9 dBuV/m



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		93.0500	17.29	15.29	32.58	43.50	-10.92	peak
2		240.1667	18.29	18.66	36.95	46.00	-9.05	peak
3		325.8500	16.96	20.38	37.34	46.00	-8.66	peak
4	*	479.4333	14.21	24.58	38.79	46.00	-7.21	peak
5		599.0667	7.32	26.93	34.25	46.00	-11.75	peak
6		720.3167	5.81	28.61	34.42	46.00	-11.58	peak

**RESULT: PASS**

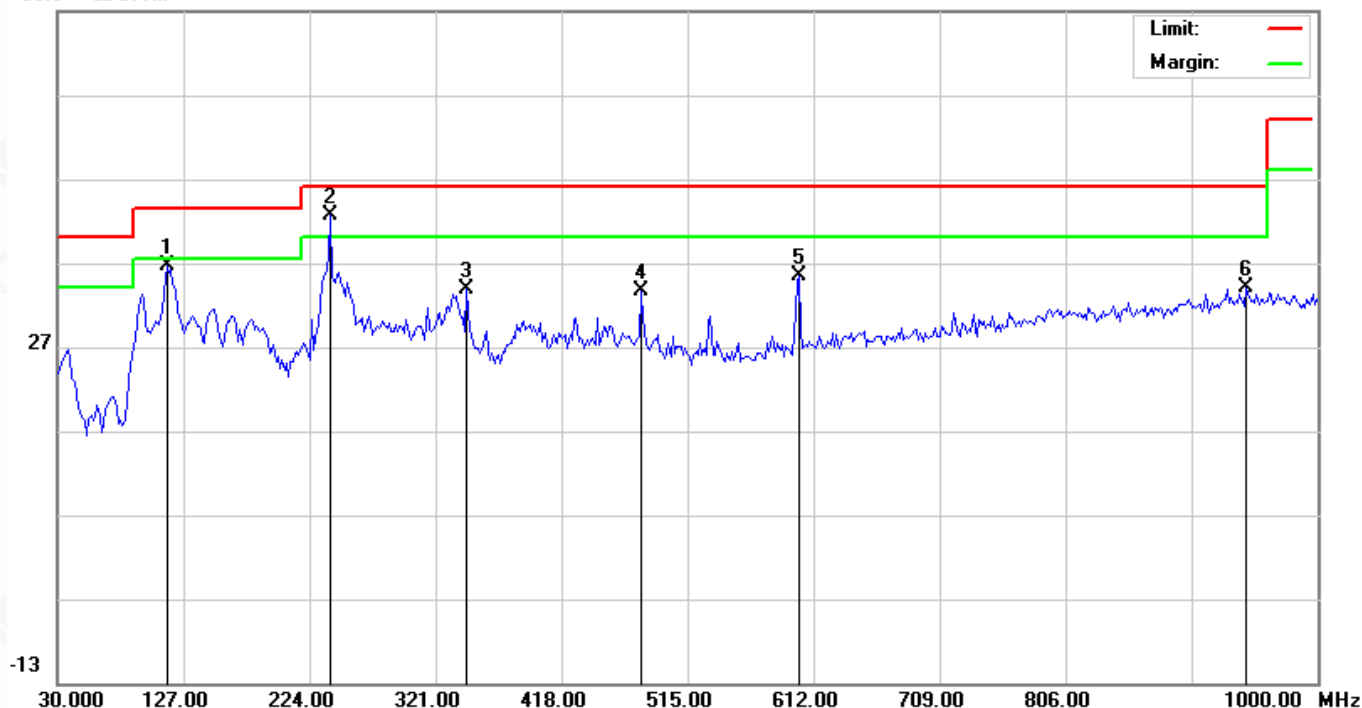
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EUT	LED Projector	Model Name	XK03S
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Vertical

66.9 dBuV/m



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		114.0667	19.24	17.39	36.63	43.50	-6.87	peak
2	*	240.1667	23.97	18.66	42.63	46.00	-3.37	peak
3		345.2500	12.74	21.06	33.80	46.00	-12.20	peak
4		479.4333	9.02	24.58	33.60	46.00	-12.40	peak
5		600.6833	8.44	26.96	35.40	46.00	-10.60	peak
6		945.0333	1.98	32.09	34.07	46.00	-11.93	peak

**RESULT: PASS**

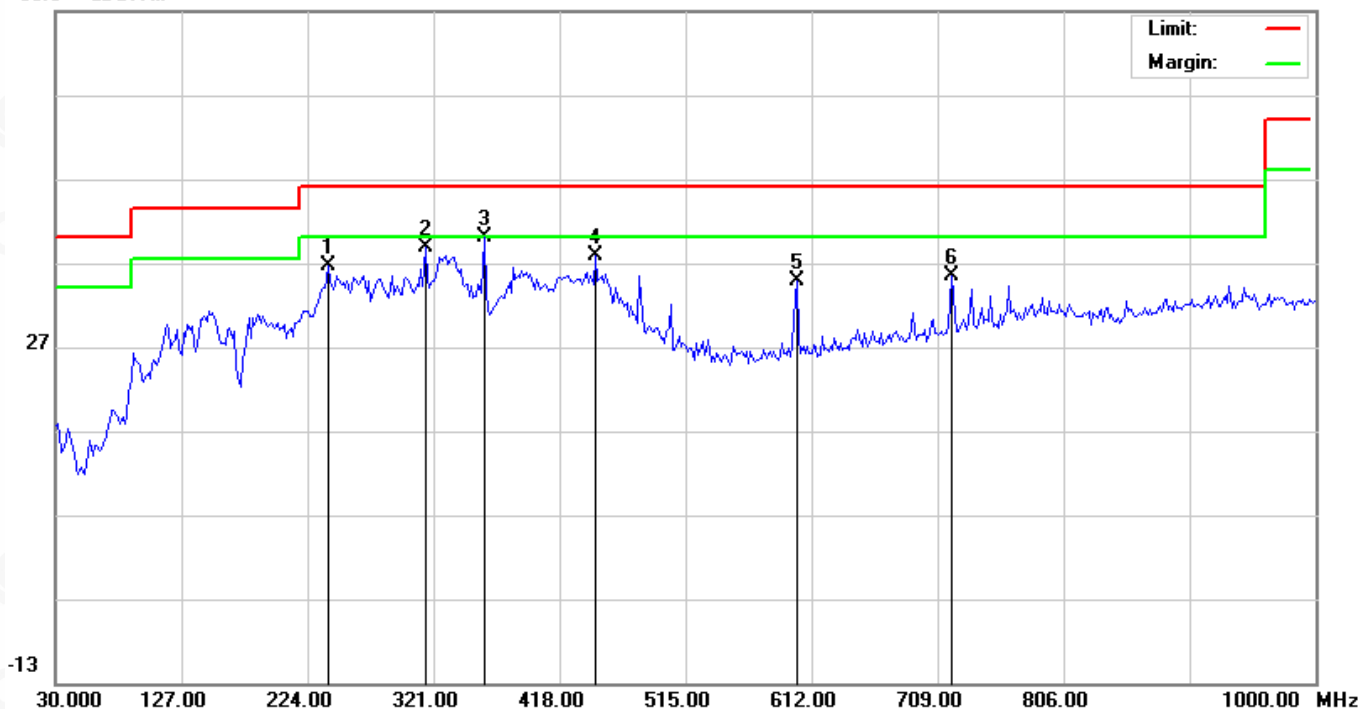
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EUT	LED Projector	Model Name	XK03S
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5745MHz	Antenna	Horizontal

66.9 dBuV/m



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		240.1667	17.94	18.66	36.60	46.00	-9.40	peak
2		314.5333	18.89	19.98	38.87	46.00	-7.13	peak
3	*	359.8000	18.46	21.57	40.03	46.00	-5.97	peak
4		445.4833	13.93	23.89	37.82	46.00	-8.18	peak
5		600.6833	7.77	26.96	34.73	46.00	-11.27	peak
6		720.3167	6.89	28.61	35.50	46.00	-10.50	peak

**RESULT: PASS**

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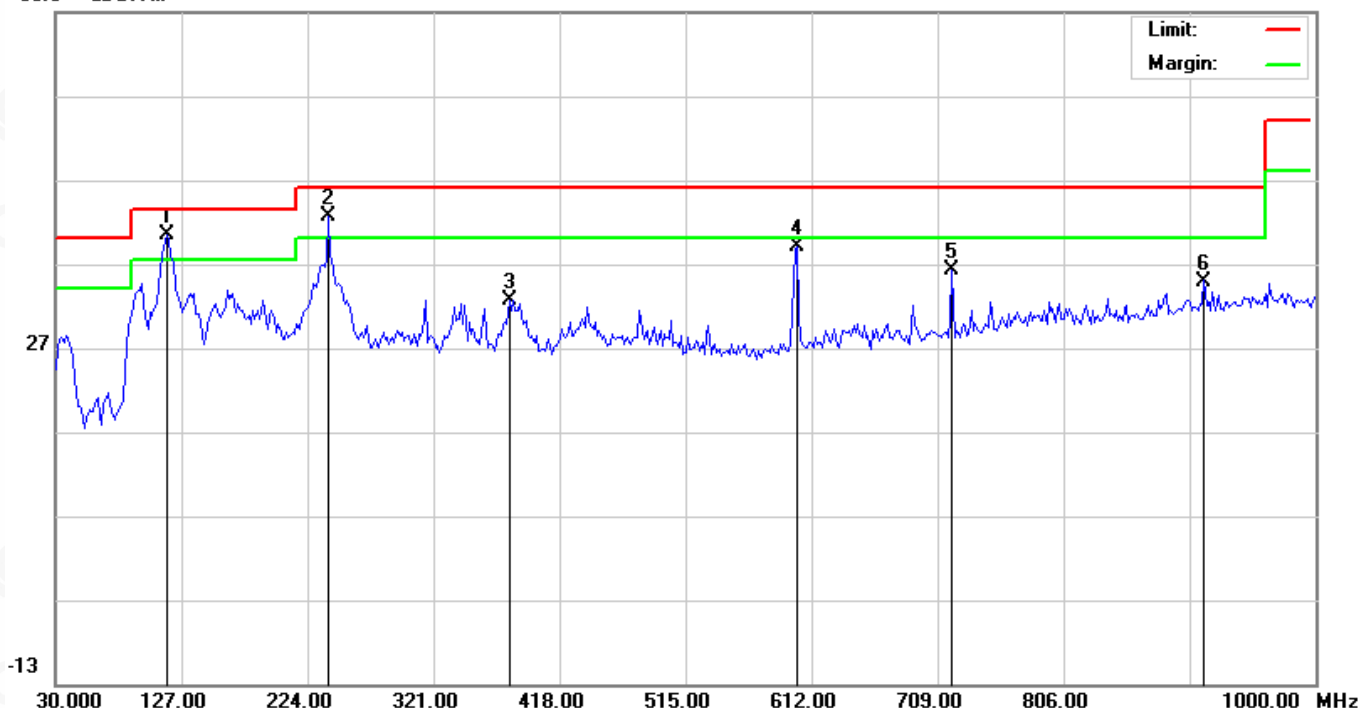
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EUT	LED Projector	Model Name	XK03S
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5745MHz	Antenna	Vertical

66.9 dBuV/m



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	115.6833	22.80	17.55	40.35	43.50	-3.15	peak
2	!	240.1667	23.88	18.66	42.54	46.00	-3.46	peak
3		379.2000	10.43	22.25	32.68	46.00	-13.32	peak
4		600.6833	12.11	26.96	39.07	46.00	-6.93	peak
5		720.3167	7.61	28.61	36.22	46.00	-9.78	peak
6		914.3167	3.08	31.82	34.90	46.00	-11.10	peak

**Note:** All test channels had been tested. The 802.11a20 at 5180MHz and 5745MHz is the worst case and recorded in the test report..

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

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

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### RADIATED EMISSION ABOVE 1GHZ

<b>EUT</b>	LED Projector	<b>Model Name</b>	XK03S
<b>Temperature</b>	21.8°C	<b>Relative Humidity</b>	58%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11a20 5180MHz	<b>Antenna</b>	Horizontal/Vertical

### RADIATED EMISSION ABOVE 1GHZ–Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
10360.042	45.13	9.14	54.27	68.20	-13.93	peak
15540.063	40.79	10.22	51.01	74.00	-22.99	peak
15540.063	31.27	10.22	41.49	54.00	-12.51	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

### RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
10360.042	46.25	9.14	55.39	68.20	-12.81	peak
15540.063	40.39	10.22	50.61	74.00	-23.39	peak
15540.063	30.57	10.22	40.79	54.00	-13.21	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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<b>EUT</b>	LED Projector	<b>Model Name</b>	XK03S
<b>Temperature</b>	21.8°C	<b>Relative Humidity</b>	58%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11a20 5200MHz	<b>Antenna</b>	Horizontal/Vertical

#### RADIATED EMISSION ABOVE 1GHZ–Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10400.042	46.27	9.14	55.41	68.20	-12.79	peak
15600.063	41.25	10.22	51.47	74.00	-22.53	peak
15600.063	32.19	10.22	42.41	54.00	-11.59	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

#### RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10400.042	45.25	9.14	54.39	68.20	-13.81	peak
15600.063	40.19	10.22	50.41	74.00	-23.59	peak
15600.063	30.76	10.22	40.98	54.00	-13.02	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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<b>EUT</b>	LED Projector	<b>Model Name</b>	XK03S
<b>Temperature</b>	21.8°C	<b>Relative Humidity</b>	58%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11a20 5240MHz	<b>Antenna</b>	Horizontal/Vertical

#### RADIATED EMISSION ABOVE 1GHZ–Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
10480.042	49.15	9.27	58.42	68.20	-9.78	peak
15720.063	43.57	10.38	53.95	74.00	-20.05	peak
15720.063	32.46	10.38	42.84	54.00	-11.16	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

#### RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
10480.042	47.26	9.27	56.53	68.20	-11.67	peak
15720.063	40.29	10.38	50.67	74.00	-23.33	peak
15720.063	30.43	10.38	40.81	54.00	-13.19	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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<b>EUT</b>	LED Projector	<b>Model Name</b>	XK03S
<b>Temperature</b>	21.8°C	<b>Relative Humidity</b>	58%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11a20 5745MHz	<b>Antenna</b>	Horizontal/Vertical

#### RADIATED EMISSION ABOVE 1GHZ–Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
11490.042	46.89	9.42	56.31	74.00	-17.69	peak
11490.042	37.57	9.42	46.99	54.00	-7.01	AVG
17235.063	40.13	10.51	50.64	68.20	-17.56	peak

Remark:

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

#### RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
11490.042	46.16	9.42	55.58	74.00	-18.42	peak
11490.042	38.15	9.42	47.57	54.00	-6.43	AVG
17235.063	40.57	10.51	51.08	68.20	-17.12	peak

Remark:

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

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<b>EUT</b>	LED Projector	<b>Model Name</b>	XK03S
<b>Temperature</b>	21.8°C	<b>Relative Humidity</b>	58%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11a20 5785MHz	<b>Antenna</b>	Horizontal/Vertical

#### RADIATED EMISSION ABOVE 1GHZ–Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
11570.042	49.17	9.42	58.59	74.00	-15.41	peak
11570.042	38.58	9.42	48.00	54.00	-6.00	AVG
17355.063	41.25	10.51	51.76	68.20	-16.44	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

#### RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
11570.042	49.19	9.42	58.61	74.00	-15.39	peak
11570.042	38.53	9.42	47.95	54.00	-6.05	AVG
17355.063	41.25	10.51	51.76	68.20	-16.44	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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<b>EUT</b>	LED Projector	<b>Model Name</b>	XK03S
<b>Temperature</b>	21.8°C	<b>Relative Humidity</b>	58%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11a20 5825MHz	<b>Antenna</b>	Horizontal/Vertical

#### RADIATED EMISSION ABOVE 1GHZ–Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
11650.042	46.17	9.62	55.79	74.00	-18.21	peak
11650.042	38.53	9.62	48.15	54.00	-5.85	AVG
17475.063	41.29	10.75	52.04	68.20	-16.16	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

#### RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
11650.042	49.27	9.62	58.89	74.00	-15.11	peak
11650.042	38.59	9.62	48.21	54.00	-5.79	AVG
17475.063	42.63	10.75	53.38	68.20	-14.82	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

**Note:** All the case had been tested. The 802.11a modulation is the worst case and recorded in the test report. Other frequencies radiation emission from 1GHz to 40GHz at least have 20dB margin and not recorded in the test report.

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

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

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## 8. FCC LINE CONDUCTED EMISSION TEST

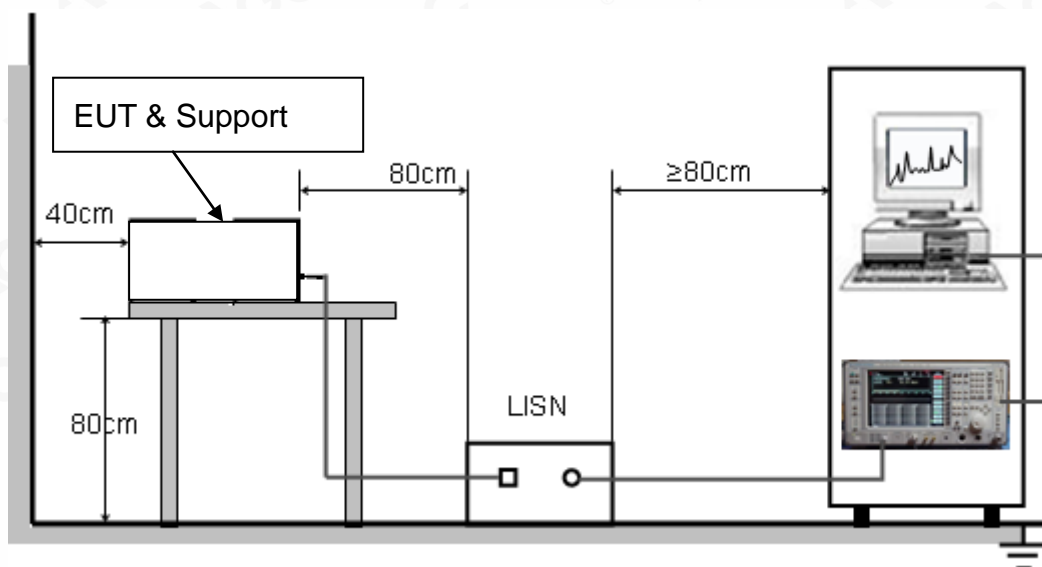
### 8.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	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 0.50MHz.

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



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### 8.3. 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 charging voltage by adapter which received 120V/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.

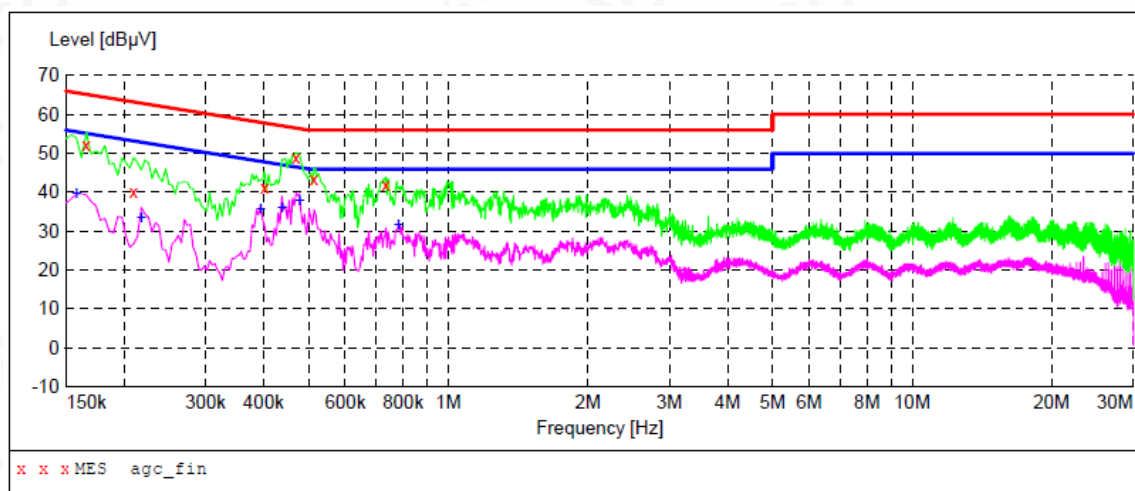
### 8.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

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.



## 8.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

### LINE CONDUCTED EMISSION TEST-L



#### MEASUREMENT RESULT: "agc\_fin"

2020/12/7 9:22

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.166000	52.10	11.3	65	13.1	QP	L1
0.210000	40.30	11.3	63	22.9	QP	L1
0.402000	41.20	11.3	58	16.6	QP	L1
0.470000	48.90	11.3	57	7.6	QP	L1
0.514000	43.30	11.3	56	12.7	QP	L1
0.734000	41.90	11.3	56	14.1	QP	L1

#### MEASUREMENT RESULT: "agc\_fin2"

2020/12/7 9:22

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.158000	39.80	11.3	56	15.8	AV	L1
0.218000	33.60	11.3	53	19.3	AV	L1
0.394000	35.70	11.3	48	12.3	AV	L1
0.438000	36.30	11.3	47	10.8	AV	L1
0.478000	38.10	11.3	46	8.3	AV	L1
0.782000	31.70	11.3	46	14.3	AV	L1

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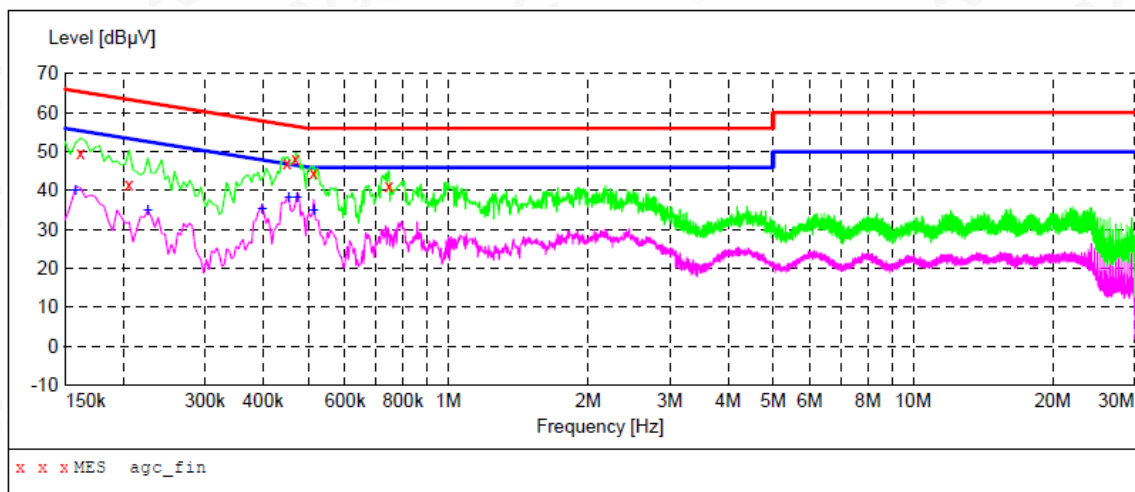
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# LINE CONDUCTED EMISSION TEST-N



## MEASUREMENT RESULT: "agc\_fin"

2020/12/7 9:57

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.162000	49.80	11.3	65	15.6	QP	N
0.206000	41.70	11.3	63	21.7	QP	N
0.450000	47.00	11.3	57	9.9	QP	N
0.470000	48.30	11.3	57	8.2	QP	N
0.514000	44.40	11.3	56	11.6	QP	N
0.746000	41.10	11.3	56	14.9	QP	N

## MEASUREMENT RESULT: "agc\_fin2"

2020/12/7 9:57

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.158000	40.20	11.3	56	15.4	AV	N
0.226000	35.20	11.3	53	17.4	AV	N
0.398000	35.50	11.3	48	12.4	AV	N
0.454000	38.20	11.3	47	8.6	AV	N
0.474000	38.30	11.3	46	8.1	AV	N
0.514000	35.20	11.3	46	10.8	AV	N

RESULT: PASS

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## APPENDIX A: PHOTOGRAPHS OF TEST SETUP

### FCC LINE CONDUCTED EMISSION TEST SETUP



### FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ



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## FCC RADIATED EMISSION TEST SETUP ABOVE 1GHZ



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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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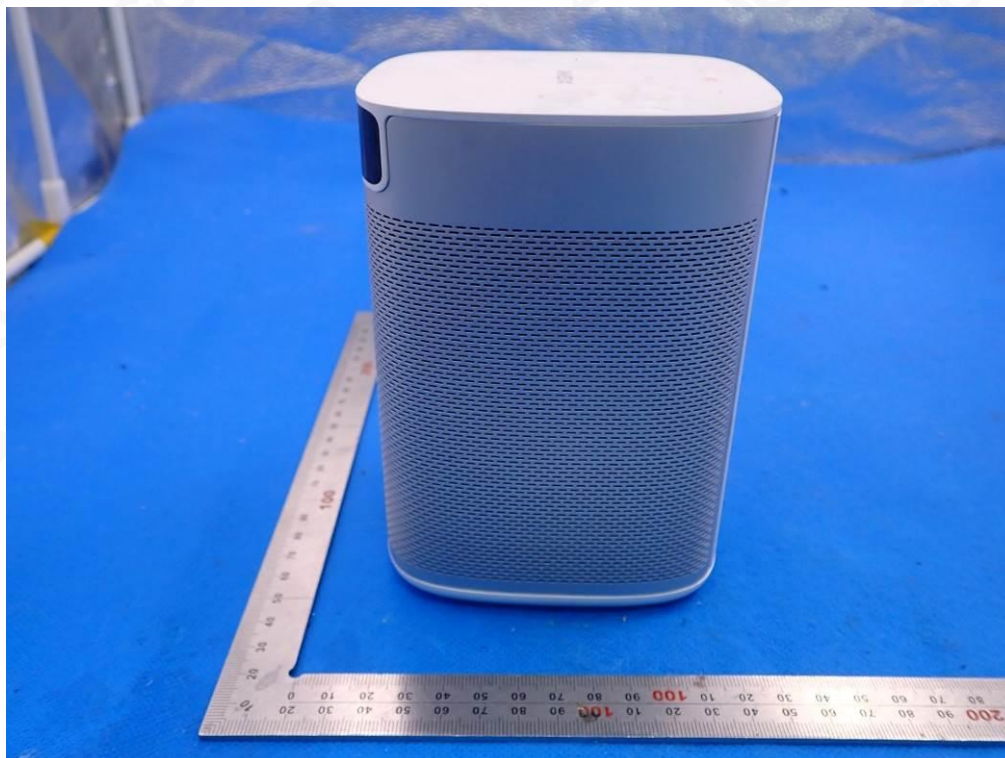
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BACK VIEW OF EUT



LEFT VIEW OF EUT



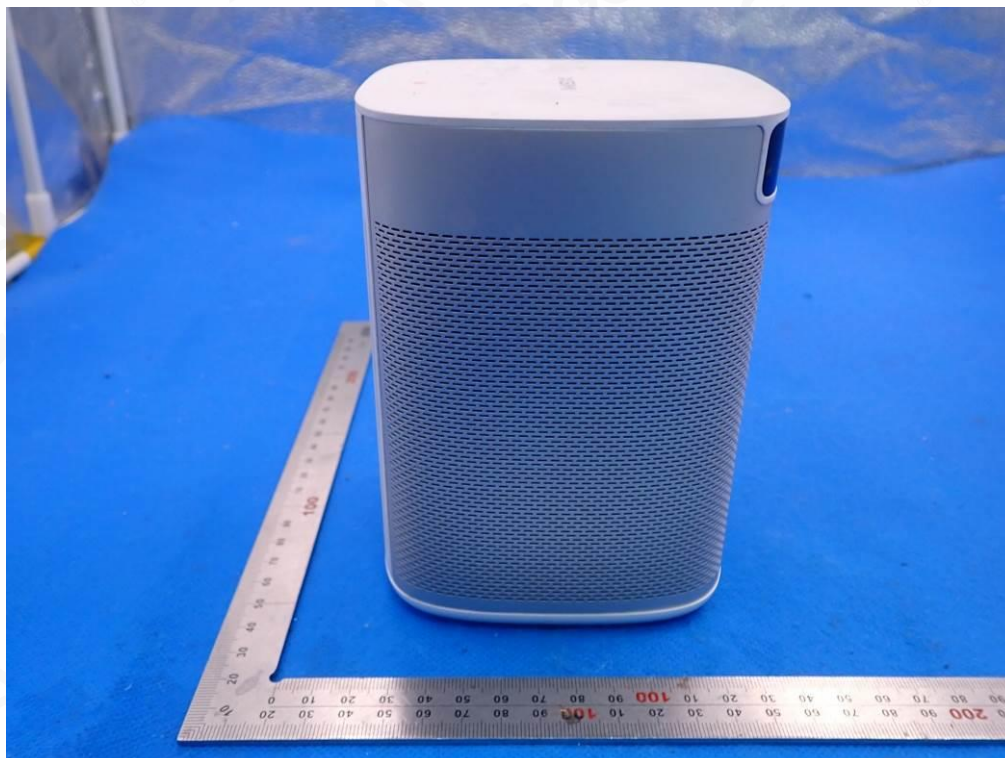
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RIGHT VIEW OF EUT



PORT VIEW OF EUT



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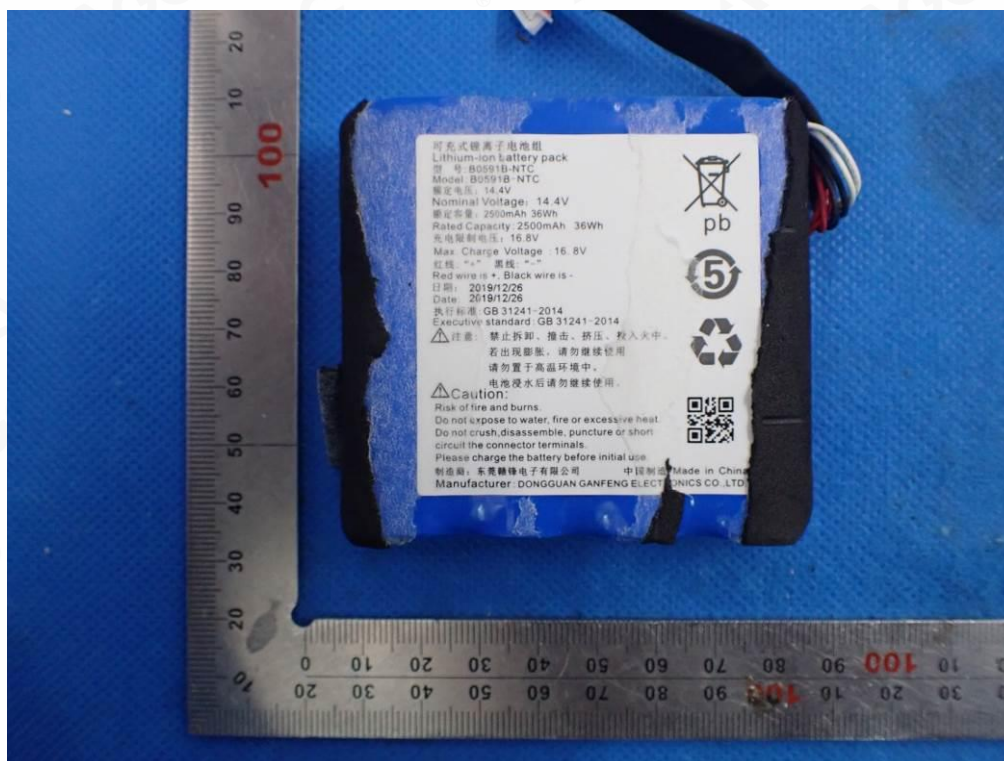
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# OPEN VIEW OF EUT



## INTERNAL VIEW-1 OF EUT



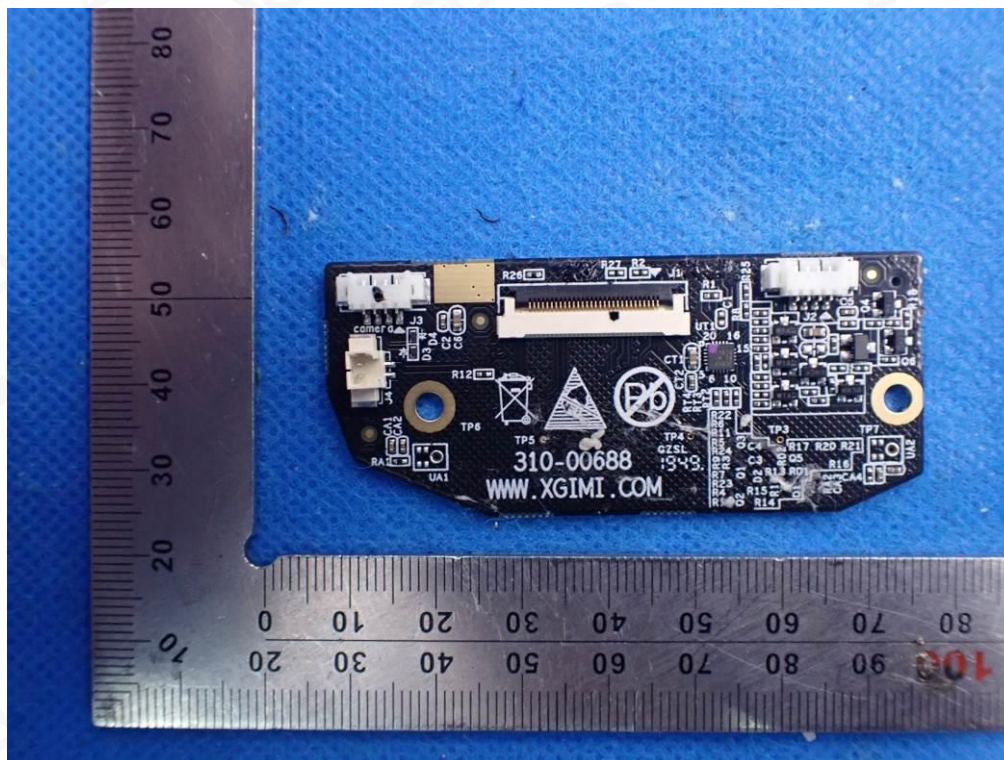
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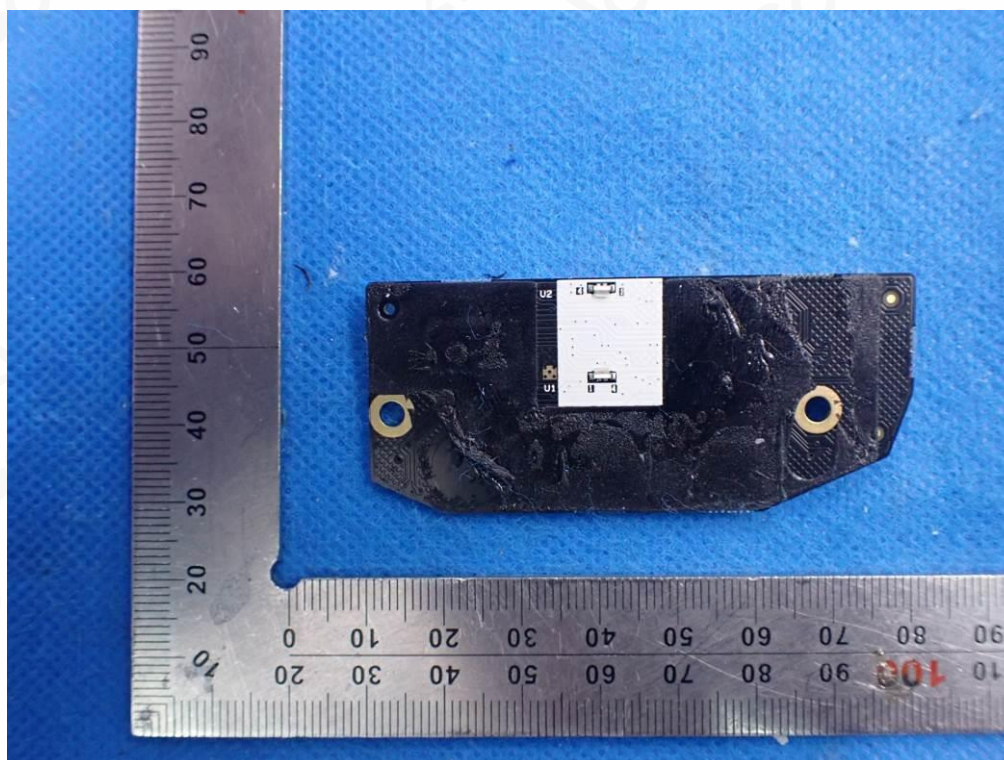




INTERNAL VIEW-2 OF EUT



INTERNAL VIEW-3 OF EUT



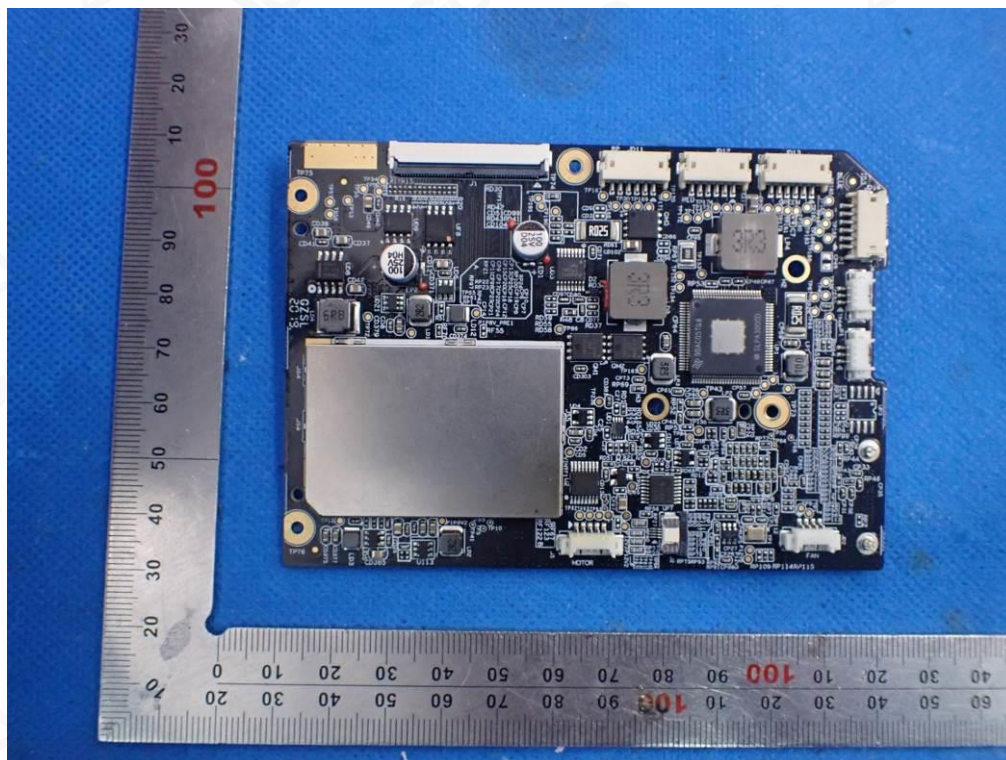
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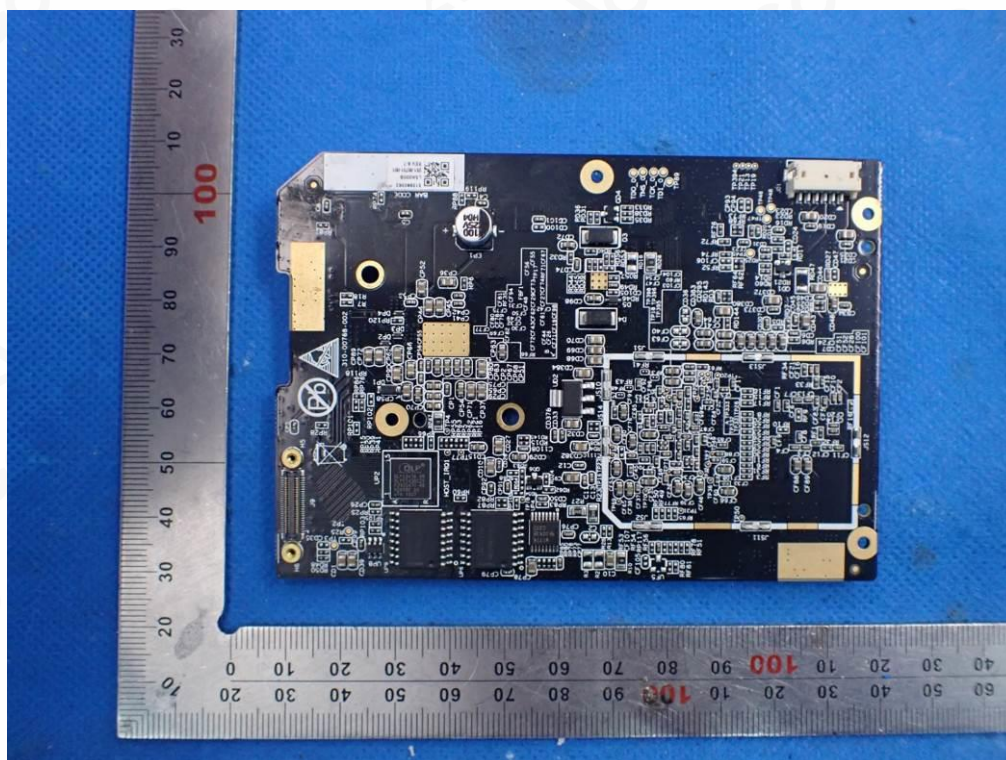




INTERNAL VIEW-4 OF EUT



INTERNAL VIEW-5 OF EUT



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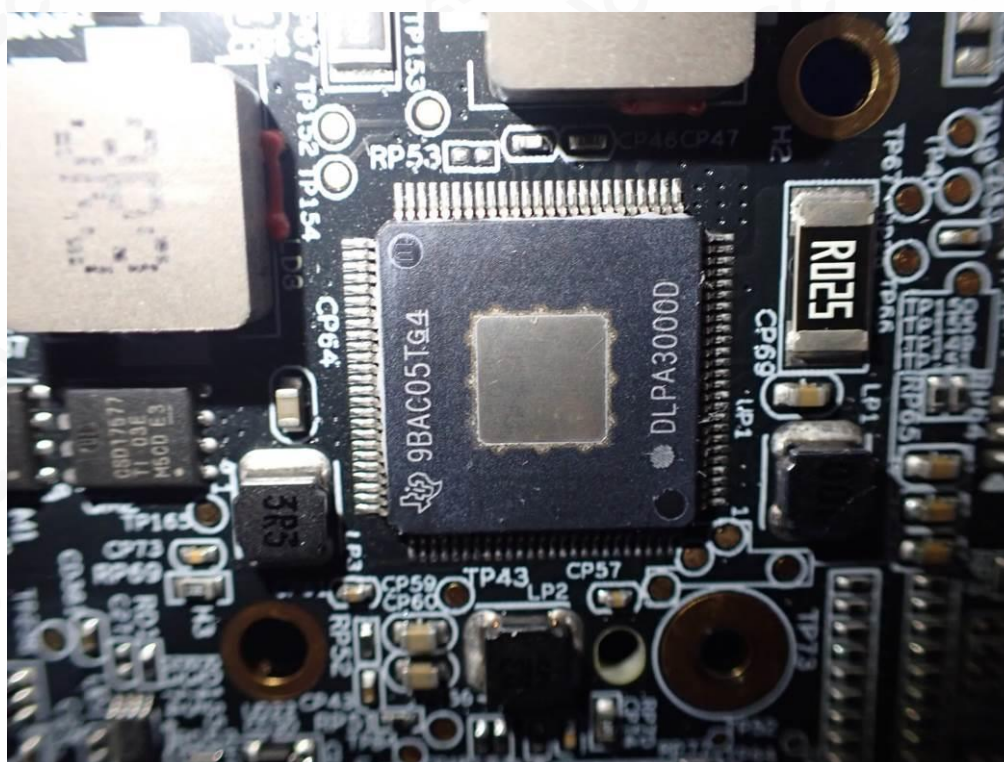




INTERNAL VIEW-6 OF EUT



INTERNAL VIEW-7 OF EUT



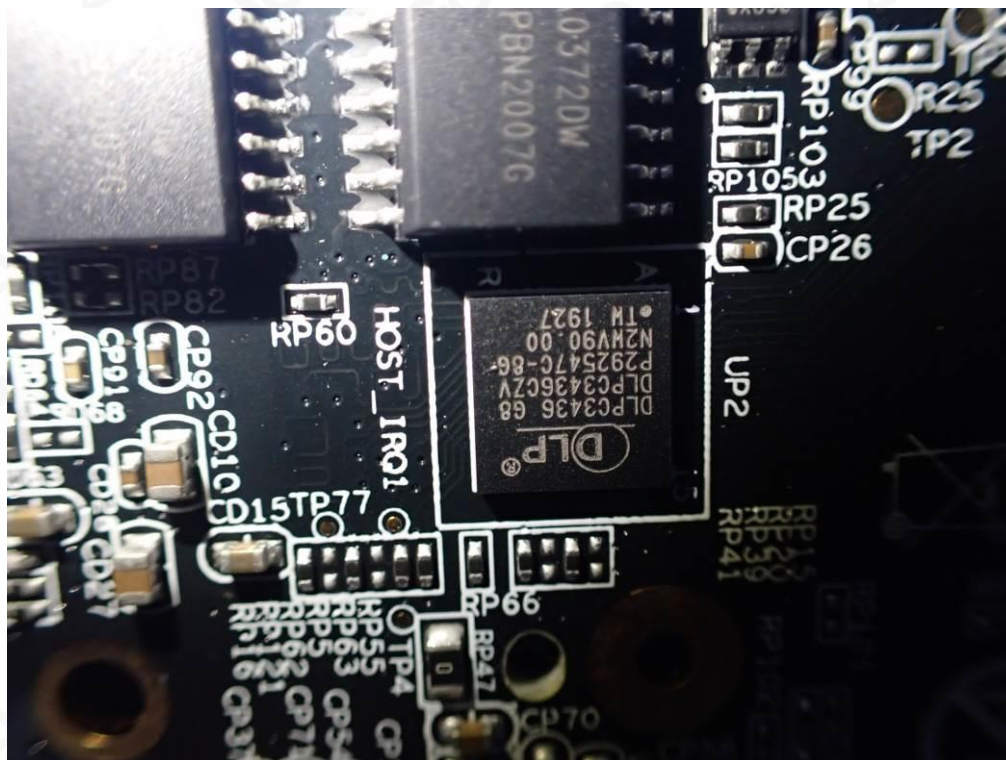
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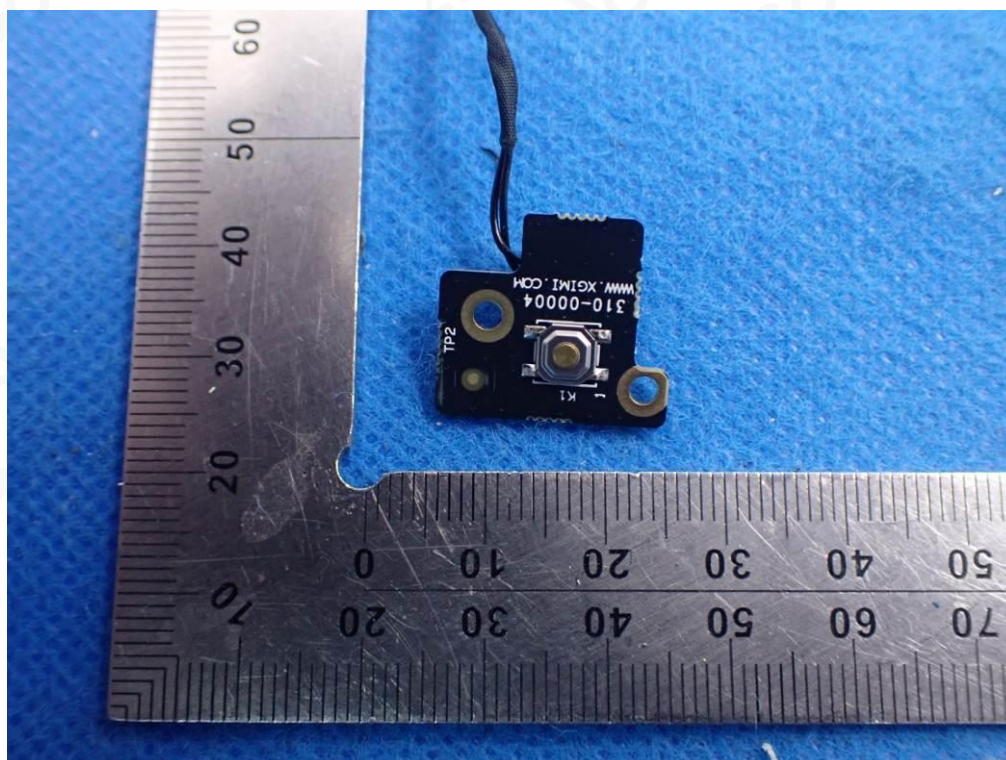




INTERNAL VIEW-8 OF EUT



INTERNAL VIEW-9 OF EUT



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