



# FCC Test Report

**APPLICANT** : Xiaomi Communications Co., Ltd.  
**EQUIPMENT** : Mobile Phone  
**BRAND NAME** : Xiaomi  
**MODEL NAME** : M2011K2G  
**FCC ID** : 2AFZZK2G  
**STANDARD** : 47 CFR Part 15 Subpart B  
**CLASSIFICATION** : Certification

The product was received on Oct. 23, 2020 and testing was completed on Nov. 27, 2020. We, Sporton International (Kunshan) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2014 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (Kunshan) Inc., the test report shall not be reproduced except in full.

*Jason Jia*

Reviewed by: Jason Jia / Supervisor

*James Huang*

Approved by: James Huang / Manager



**Sporton International (Kunshan) Inc.**

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300  
People's Republic of China**



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### SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.107	AC Conducted Emission	< 15.107 limits	PASS	Under limit 5.58 dB at 0.151 MHz
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	Under limit 5.36 dB at 54.250 MHz

<b>Declaration of Conformity:</b>
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
<b>Comments and Explanations:</b>
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



# 1. General Description

## 1.1. Applicant

**Xiaomi Communications Co., Ltd.**

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

## 1.2. Manufacturer

**Xiaomi Communications Co., Ltd.**

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

## 1.3. Product Feature of Equipment Under Test

Product Feature	
<b>Equipment</b>	Mobile Phone
<b>Brand Name</b>	Xiaomi
<b>Model Name</b>	M2011K2G
<b>FCC ID</b>	2AFZZK2G
<b>EUT supports Radios application</b>	GSM/WCDMA/LTE/5G NR/NFC WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 2.4GHz 802.11ax HE20/HE40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80/VHT160 WLAN 5GHz 802.11ax HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE GNSS
<b>IMEI Code</b>	Conduction: 868285059997963 for Sample 1 868285059997971 for Sample 2 Radiation: 868285059997989 for Sample 1 868285059997997 for Sample 2
<b>HW Version</b>	P2
<b>SW Version</b>	MIUI12
<b>EUT Stage</b>	Identical Prototype

**Remark:**

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. There are two types of EUT, the sample 1 is 6+128GB capacity and the sample 2 is 8+256GB capacity. According to the difference, we only choose sample 1 to perform full tests and the sample 2 is verified.





	NFC : 13.56 MHz WPC: 110kHz~ 148 kHz
<b>Antenna Type</b>	WWAN : PIFA Antenna WLAN : PIFA Antenna Bluetooth : PIFA Antenna GNSS: PIFA Antenna NFC: Planar antenna WPC: Coil Antenna
<b>Type of Modulation</b>	GSM: GMSK GPRS: GMSK EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK WCDMA : BPSK (Uplink) HSDPA/DC-HSDPA : QPSK (Uplink) HSUPA : QPSK (Uplink) HSPA+ : 16QAM (16QAM uplink is not supported) DC-HSDPA : 64QAM LTE: QPSK / 16QAM / 64QAM / 256QAM 5G NR: DFT-s-OFDM (Pi/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM) CP-OFDM (QPSK / 16QAM / 64QAM / 256QAM) 802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11a/g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac/ax : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM) Bluetooth LE : GFSK Bluetooth (1Mbps) : GFSK Bluetooth (2Mbps) : $\pi/4$ -DQPSK Bluetooth (3Mbps) : 8-DPSK GNSS : BPSK NFC: ASK WPC: ASK

Note:

- GNSS (1559 MHz ~ 1610 MHz) = GLONASS + GPS + BDS + Galileo
- GNSS (1164 MHz ~ 1215 MHz) = GPS + Galileo

### 1.5. Modification of EUT

No modifications are made to the EUT during all test items.



### 1.6. Test Location

Sporton International (Kunshan) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

<b>Test Firm</b>	Sporton International (Kunshan) Inc.		
<b>Test Site Location</b>	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158 FAX : +86-512-57900958		
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC Designation No.</b>	<b>FCC Test Firm Registration No.</b>
	CO01-KS 03CH02-KS	CN1257	314309

### 1.7. Test Software

Item	Site	Manufacture	Name	Version
1.	03CH02-KS	AUDIX	E3	6.2009-8-24a
2.	CO01-KS	AUDIX	E3	6.2009-8-24

### 1.8. Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 15 Subpart B
- ANSI C63.4-2014

**Remark:** All test items were verified and recorded according to the standards and without any deviation during the test.



## 2. Test Configuration of Equipment Under Test

### 2.1. Test Mode

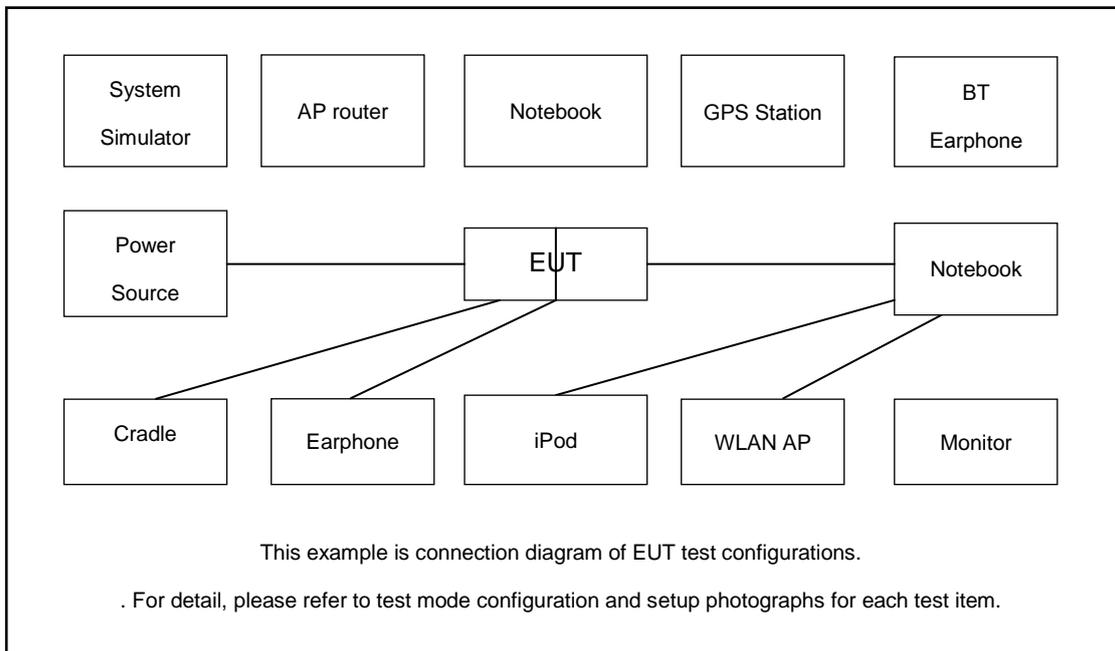
The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

Test Items	Function Type
AC Conducted Emission	Mode 1: GSM 850 Rx(Middle) + USB Cable(Charging from Adapter) + Bluetooth Idle + WLAN Idle(2.4G) + Camera(Rear) + ANT1 + SIM1 for Sample 1
	Mode 2: WCDMA 850 Rx(High) + USB Cable(Charging from Adapter) + Bluetooth Idle + WLAN Idle(5G) + Camera(Front) + ANT3 + SIM2 for Sample 1
	Mode 3: LTE Band 5 Rx(Low) + USB Cable(Charging from Adapter) + Bluetooth Idle + WLAN Idle(2.4G) + MPEG4 + ANT1 + SIM1 for Sample 1
	Mode 4: LTE Band 12 Rx(Middle) + USB Cable(Charging from Adapter) + Bluetooth Idle + WLAN Idle(5G) + NFC On + ANT3 + SIM2 for Sample 1
	Mode 5: LTE Band 17 Rx(Low) + USB Cable(Charging from Adapter) + Bluetooth Idle + WLAN Idle(2.4G) + GNSS Rx + ANT1 + SIM1 for Sample 1
	Mode 6: LTE Band 66 Rx(Middle) + USB Cable(Charging from Adapter) + Bluetooth Idle + WLAN Idle(5G) + WPC(Power From Wireless Charger) + ANT4 + SIM2 for Sample 1
	Mode 7 5G NR n41 Rx(Middle) + USB Cable(Charging from Adapter) + Bluetooth Idle + WLAN Idle(2.4G) + WPC(Charge the other phones) + ANT7 + SIM1 for Sample 1
	Mode 8 EN-DC_7A-n5A Rx(Middle) + USB Cable(Data Link with Notebook) + Bluetooth Idle + WLAN Idle(5G) + GNSS Rx + ANT7+3 + SIM2 for Sample 1
	Mode 9 LTE Band 5 Rx(Low) + USB Cable(Data Link with Notebook) + Bluetooth Idle + WLAN Idle(2.4G) + GNSS Rx + ANT1 + SIM1 for Sample 2

Radiated Emissions	<p>Mode 1: GSM 850 Rx(Middle) + USB Cable(Charging from Adapter) + Bluetooth Idle + WLAN Idle(2.4G) + Camera(Rear) + ANT1 + SIM1 for Sample 1</p> <p>Mode 2: WCDMA 850 Rx(High) + USB Cable(Charging from Adapter) + Bluetooth Idle + WLAN Idle(5G) + Camera(Front) + ANT3 + SIM2 for Sample 1</p> <p>Mode 3: LTE Band 5 Rx(Low) + Bluetooth Idle + WLAN Idle(2.4G) + MPEG4 + ANT1 + SIM1 + Earphone for Sample 1</p> <p>Mode 4: LTE Band 12 Rx(Middle) + Bluetooth Idle + WLAN Idle(5G) + NFC On + ANT3 + SIM2 + Earphone for Sample 1</p> <p>Mode 5: LTE Band 17 Rx(Low) + Bluetooth Idle + WLAN Idle(2.4G) + GNSS Rx + ANT1 + SIM1 + Earphone for Sample 1</p> <p>Mode 6: 5G NR n41 Rx(Middle) + USB Cable(Charging from Adapter) + Bluetooth Idle + WLAN Idle(2.4G) + WPC(Charge the other phones) + ANT7 + SIM1 for Sample 1</p> <p>Mode 7: EN-DC_7A-n5A Rx(Middle) + USB Cable(Data Link with Notebook) + Bluetooth Idle + WLAN Idle(5G) + GNSS Rx + ANT7+3 + SIM2 for Sample 1</p> <p>Mode 8: 5G NR n41 Rx(Middle) + USB Cable(Data Link with Notebook) + Bluetooth Idle + WLAN Idle(2.4G) + GNSS Rx + ANT7 + SIM1 for Sample 2</p>
<p><b>Remark:</b></p> <ol style="list-style-type: none"> <li>1. The worst case of AC is mode 3; only the test data of this mode is reported.</li> <li>2. The worst case of RE is mode 6; only the test data of this mode is reported.</li> <li>3. Data Link with Notebook means data application transferred mode between EUT and Notebook</li> <li>4. Pre-scanned Low/Middle/High channel, the worst channel was recorded in this report.</li> </ol>	

## 2.2.Connection Diagram of Test System



The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application

**2.3. Support Unit used in test configuration and system**

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	LTE Base Station	Anritsu	MT8821C	N/A	N/A	Unshielded,1.8m
2.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded,1.8m
3.	5G NR Base Station	Anritsu	MT8000A	N/A	N/A	Unshielded,1.8m
4.	Vector Signal Generator	R&S	SMBV100A	258305	N/A	N/A
5.	WLAN AP	D-link	DIR-655	KA21R655B1	N/A	Unshielded,1.8m
6.	WLAN AP	TP-Link	TL-WDR5600	N/A	N/A	Unshielded,1.8m
7.	Notebook	Lenovo	G480	QDS-BRCM1050I	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
8.	Notebook	Dell	Latitude3440	N/A	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
9.	Bluetooth Earphone	Xiaomi	LYEJ02LM	N/A	N/A	N/A
10.	Hard Disk	Lenovo	F310	DoC	Shielded, 1.2m	N/A
11.	Hard disk	KINGSHARE	KSP6120G	Fcc DoC	Shielded, 1.2m	N/A
12.	Mobile phone	N/A	N/A	N/A	N/A	N/A
13.	SD Card	Kingston	8GB	N/A	N/A	N/A



## **2.4. EUT Operation Test Setup**

The EUT was in GSM or WCDMA or LTE or 5G NR idle mode during the testing. The EUT was synchronized to the BCCH, and is in continuous receiving mode by setting system simulator's paging reorganization.

At the same time, the EUT was attached to Bluetooth Earphone or the WLAN AP, and the following programs installed in the EUT were programmed during the test.

1. Data application is transferred between notebook and EUT via USB cable.
2. Turn on camera to capture images.
3. Turn on NFC Function.
4. Turn on MPEG4 function.
5. Turn on Wireless Charging function.
6. Turn on GNSS function to make the EUT receive continuous signals from GNSS station.



### 3. Test Result

#### 3.1. Test of AC Conducted Emission Measurement

##### 3.1.1 Limits of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

<Class B Limit>

Frequency of emission (MHz)	Conducted limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

\*Decreases with the logarithm of the frequency.

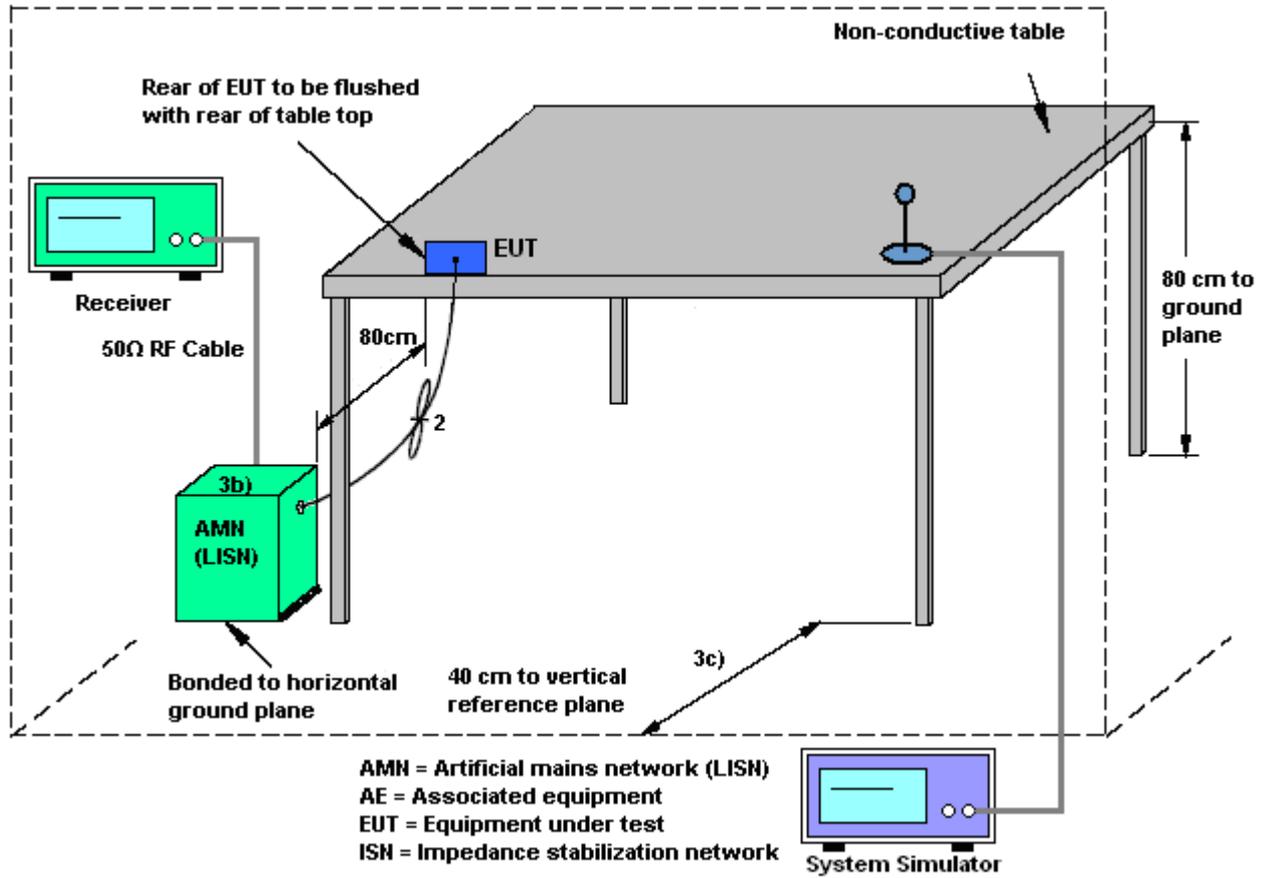
##### 3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

##### 3.1.3 Test Procedure

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

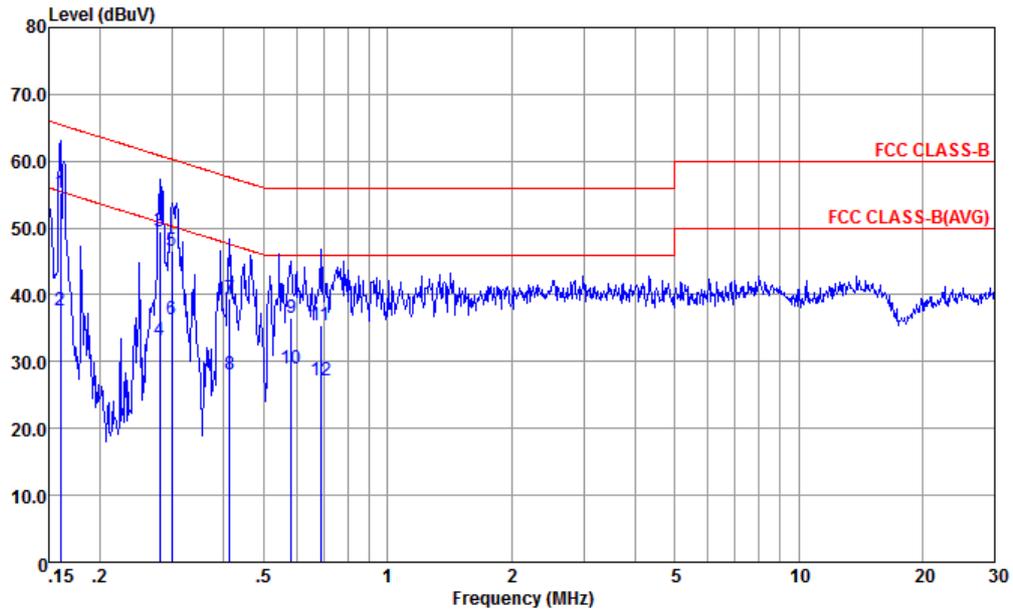
### 3.1.4 Test Setup





3.1.5 Test Result of AC Conducted Emission

Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

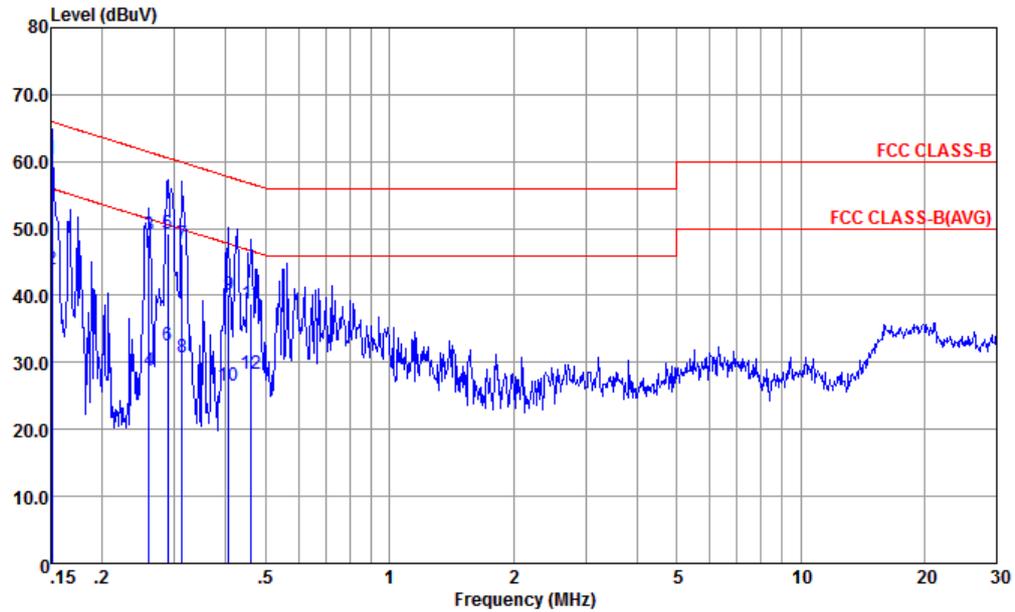


Site : CO01-KS  
 Condition : FCC CLASS-B TWO-LISN-CN02-L LINE  
 Project : (FC) 002312

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1 *	0.160	55.19	-10.28	65.47	35.10	9.64	10.45	QP
2	0.160	37.59	-17.88	55.47	17.50	9.64	10.45	Average
3	0.279	49.46	-11.39	60.85	29.50	9.64	10.32	QP
4	0.279	33.26	-17.59	50.85	13.30	9.64	10.32	Average
5	0.299	46.55	-13.73	60.28	26.60	9.64	10.31	QP
6	0.299	36.25	-14.03	50.28	16.30	9.64	10.31	Average
7	0.413	39.41	-18.18	57.59	19.50	9.65	10.26	QP
8	0.413	28.01	-19.58	47.59	8.10	9.65	10.26	Average
9	0.582	36.49	-19.51	56.00	16.60	9.65	10.24	QP
10	0.582	28.99	-17.01	46.00	9.10	9.65	10.24	Average
11	0.686	35.40	-20.60	56.00	15.50	9.66	10.24	QP
12	0.686	27.20	-18.80	46.00	7.30	9.66	10.24	Average



Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS  
 Condition : FCC CLASS-B TWO-LISN-CN02-N NEUTRAL  
 Project : (FC) 002312

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1 *	0.151	60.38	-5.58	65.96	40.10	9.80	10.48	QP
2	0.151	43.88	-12.08	55.96	23.60	9.80	10.48	Average
3	0.260	49.05	-12.37	61.42	28.89	9.83	10.33	QP
4	0.260	28.75	-22.67	51.42	8.59	9.83	10.33	Average
5	0.289	49.31	-11.23	60.54	29.20	9.80	10.31	QP
6	0.289	32.61	-17.93	50.54	12.50	9.80	10.31	Average
7	0.313	47.69	-12.19	59.88	27.61	9.78	10.30	QP
8	0.313	30.69	-19.19	49.88	10.61	9.78	10.30	Average
9	0.406	40.22	-17.51	57.73	20.21	9.75	10.26	QP
10	0.406	26.62	-21.11	47.73	6.61	9.75	10.26	Average
11	0.461	38.79	-17.88	56.67	18.80	9.74	10.25	QP
12	0.461	28.29	-18.38	46.67	8.30	9.74	10.25	Average

Note:

- Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
- Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)



### 3.2. Test of Radiated Emission Measurement

#### 3.2.1. Limit of Radiated Emission

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

<Class B Limit>

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

#### 3.2.2. Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

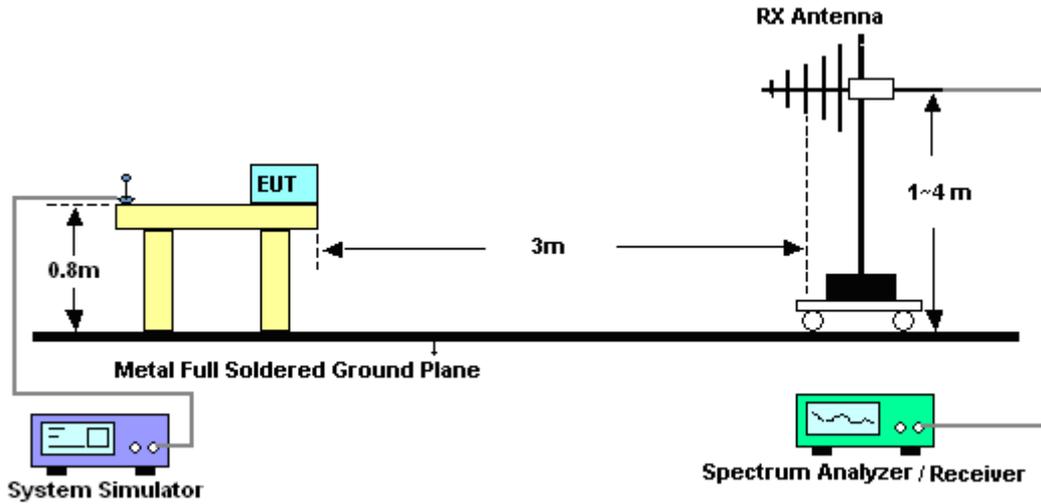


### **3.2.3. Test Procedures**

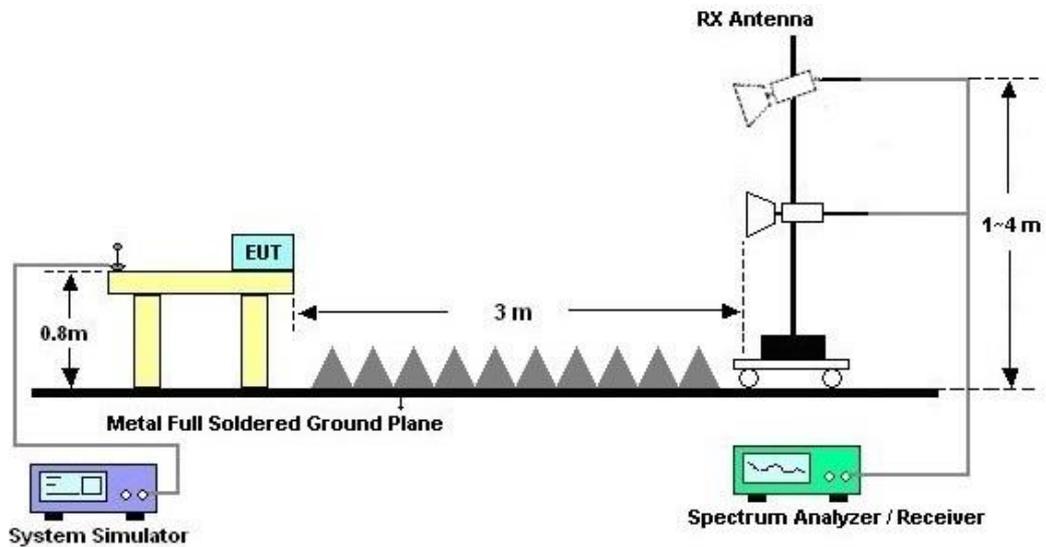
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna is a Bi-Log antenna and its height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode (RBW=120kHz/VBW=300kHz for frequency below 1GHz; RBW=1MHz VBW=3MHz (Peak), RBW=1MHz/VBW=10Hz (Average) for frequency above 1GHz).
7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.
8. Emission level (dB $\mu$ V/m) = 20 log Emission level ( $\mu$ V/m)
9. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

### 3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



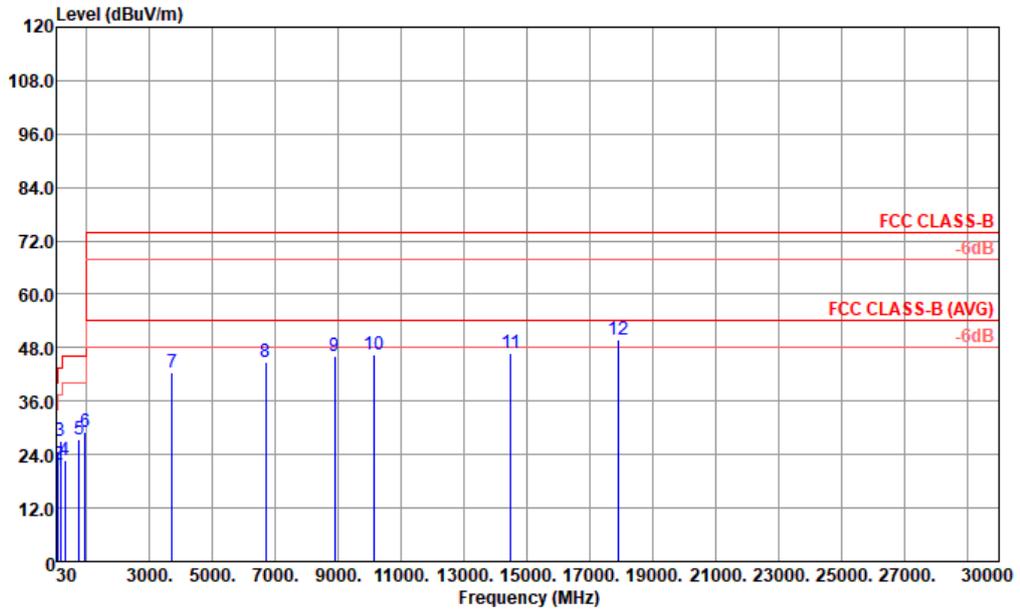
For radiated emissions above 1GHz





3.2.5. Test Result of Radiated Emission

Test Engineer :	Winter Zhang	Temperature :	21~22°C
		Relative Humidity :	41~42%
Test Distance :	3m	Polarization :	Horizontal

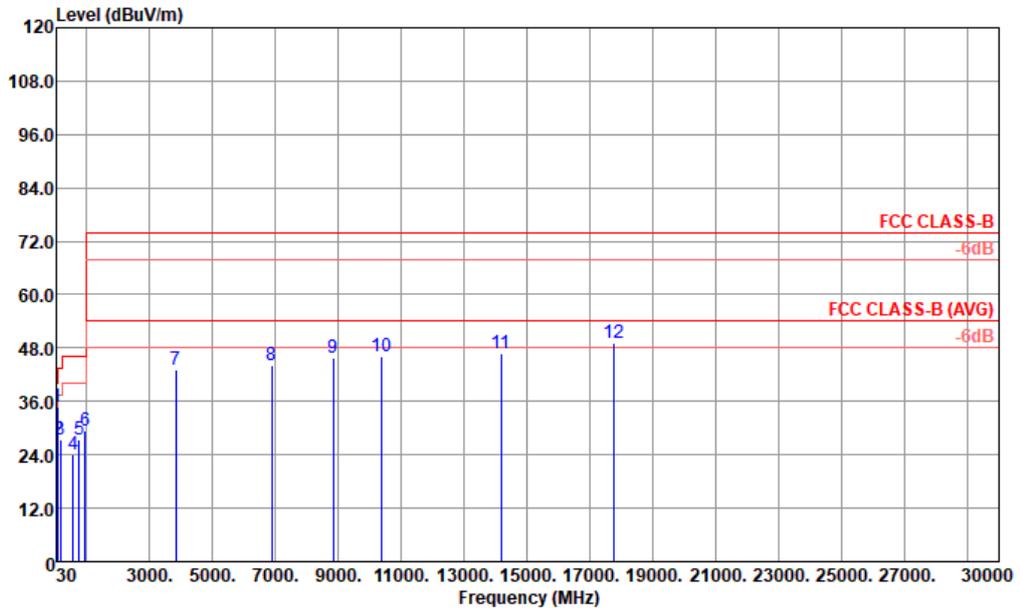


Site : 03CH02-KS  
 Condition : FCC CLASS-B 3m LF 6111D SN44483 HORIZONTAL  
 Project : (FC)002312

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.00	20.53	-19.47	40.00	26.82	25.10	0.81	32.20	---	---	Peak
2	96.93	21.88	-21.62	43.50	36.66	15.71	1.71	32.20	---	---	Peak
3	172.59	27.01	-16.49	43.50	41.28	15.54	2.29	32.10	100	0	Peak
4	314.21	22.81	-23.19	46.00	32.31	19.54	3.09	32.13	---	---	Peak
5	748.77	27.48	-18.52	46.00	26.85	28.17	4.76	32.30	---	---	Peak
6	946.65	29.12	-16.88	46.00	25.09	30.89	5.34	32.20	---	---	Peak
7	3704.00	42.54	-31.46	74.00	56.91	34.66	10.63	59.66	---	---	Peak
8	6680.00	44.68	-29.32	74.00	53.80	36.61	14.39	60.12	---	---	Peak
9	8888.00	45.96	-28.04	74.00	51.76	38.57	16.86	61.23	---	---	Peak
10	10152.00	46.37	-27.63	74.00	49.63	39.37	18.10	60.73	---	---	Peak
11	14472.00	46.81	-27.19	74.00	44.57	40.63	21.65	60.04	---	---	Peak
12	17901.00	49.87	-24.13	74.00	39.27	43.26	24.44	57.10	---	---	Peak



Test Engineer :	Winter Zhang	Temperature :	21~22°C
		Relative Humidity :	41~42%
Test Distance :	3m	Polarization :	Vertical



Site : 03CH02-KS  
 Condition : FCC CLASS-B 3m LF 6111D SN44483 VERTICAL  
 Project : (FC)002312

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	54.25	34.64	-5.36	40.00	52.17	13.40	1.27	32.20	100	0	Peak
2	82.38	27.35	-12.65	40.00	44.10	13.84	1.57	32.16	---	---	Peak
3	169.68	27.32	-16.18	43.50	41.45	15.70	2.27	32.10	---	---	Peak
4	570.29	23.98	-22.02	46.00	26.57	25.56	4.15	32.30	---	---	Peak
5	758.47	27.27	-18.73	46.00	26.58	28.20	4.79	32.30	---	---	Peak
6	941.80	29.49	-16.51	46.00	25.66	30.70	5.33	32.20	---	---	Peak
7	3840.00	42.99	-31.01	74.00	56.87	34.96	10.80	59.64	---	---	Peak
8	6872.00	44.20	-29.80	74.00	52.86	36.95	14.69	60.30	---	---	Peak
9	8832.00	45.91	-28.09	74.00	51.82	38.43	16.85	61.19	---	---	Peak
10	10350.00	46.14	-27.86	74.00	49.24	39.33	18.25	60.68	---	---	Peak
11	14175.00	46.94	-27.06	74.00	44.66	40.93	21.39	60.04	---	---	Peak
12	17775.00	49.17	-24.83	74.00	38.76	43.33	24.33	57.25	---	---	Peak

Note:

- Level(dBμV/m) = Read Level(dBμV) + Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Factor(dB)
- Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)



### 4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Receiver	R&S	ESC17	100768	9kHz~7GHz;	Apr. 14, 2020	Nov. 23, 2020	Apr. 13, 2021	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 17, 2020	Nov. 23, 2020	Oct. 16, 2021	Conduction (CO01-KS)
AC LISN	R&S	ENV216	100334	9kHz~30MHz	Oct. 17, 2020	Nov. 23, 2020	Oct. 16, 2021	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP0000008 11	AC 0V~300V, 45Hz~1000Hz	Oct. 17, 2020	Nov. 23, 2020	Oct. 16, 2021	Conduction (CO01-KS)
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz;Ma x 30dBm	Oct. 17, 2020	Nov. 27, 2020	Oct. 16, 2021	Radiation (03CH02-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55370528	10Hz-44G,MAX 30dB	Oct. 17, 2020	Nov. 27, 2020	Oct. 16, 2021	Radiation (03CH02-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz-1GHz	Dec. 30, 2019	Nov. 27, 2020	Dec. 29, 2020	Radiation (03CH02-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Nov. 01, 2020	Nov. 27, 2020	Oct. 31, 2021	Radiation (03CH02-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Jun. 05, 2020	Nov. 27, 2020	Jun. 04, 2021	Radiation (03CH02-KS)
Amplifier	MITEQ	EM18G40GGA	060728	18~40GHz	Jan. 08, 2020	Nov. 27, 2020	Jan. 07, 2021	Radiation (03CH02-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	Jan. 02, 2020	Nov. 27, 2020	Jan. 01, 2021	Radiation (03CH02-KS)
Amplifier	Keysight	83017A	MY53270316	500MHz~26.5G Hz	Oct. 17, 2020	Nov. 27, 2020	Oct. 16, 2021	Radiation (03CH02-KS)
AC Power Source	Chroma	61601	61601000247 3	N/A	NCR	Nov. 27, 2020	NCR	Radiation (03CH02-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Nov. 27, 2020	NCR	Radiation (03CH02-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Nov. 27, 2020	NCR	Radiation (03CH02-KS)

NCR: No Calibration Required



## 5. Uncertainty of Evaluation

### Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	2.94dB
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### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	4.9dB
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### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	5.0dB
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### Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	5.1 dB
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