



FCC Test Report

APPLICANT : LG Electronics USA, Inc.
EQUIPMENT : Mobile Phone
BRAND NAME : LG
MODEL NAME : LM-K410EMW, LMK410EMW, K410EMW
FCC ID : ZNFK410EMW
STANDARD : 47 CFR Part 15 Subpart B
CLASSIFICATION : Certification

The product was received on Jan. 09, 2020 and testing was completed on Feb. 28, 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**



TABLE OF CONTENTS

REVISION HISTORY..... 3

SUMMARY OF TEST RESULT 4

1. GENERAL DESCRIPTION 5

 1.1. Applicant..... 5

 1.2. Manufacturer 5

 1.3. Product Feature of Equipment Under Test 5

 1.4. Product Specification of Equipment Under Test 6

 1.5. Modification of EUT 6

 1.6. Test Location 7

 1.7. Test Software 7

 1.8. Applicable Standards 7

2. TEST CONFIGURATION OF EQUIPMENT UNDER TEST 8

 2.1. Test Mode 8

 2.2. Connection Diagram of Test System 9

 2.3. Support Unit used in test configuration and system 10

 2.4. EUT Operation Test Setup 10

3. TEST RESULT 11

 3.1. Test of AC Conducted Emission Measurement 11

 3.2. Test of Radiated Emission Measurement 15

4. LIST OF MEASURING EQUIPMENT 20

5. UNCERTAINTY OF EVALUATION 21

APPENDIX A. SETUP PHOTOGRAPHS



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 5.39 dB at 0.156 MHz
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	Under limit 7.58 dB at 190.050 MHz

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

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

LG Electronics USA, Inc.
1000 Sylvan Ave. Englewood Cliffs, New Jersey, United States 07632

1.2. Manufacturer

LG Electronics USA, Inc.
1000 Sylvan Ave. Englewood Cliffs, New Jersey, United States 07632

1.3. Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	LG
Model Name	LM-K410EMW, LMK410EMW, K410EMW
FCC ID	ZNFK410EMW
EUT supports Radios application	GSM/WCDMA/LTE/NFC WLAN 2.4GHz 802.11b/g/n HT20 Bluetooth BR/EDR/LE GNSS
IMEI Code	Conduction: 353671110015899/353671110022432 Radiation: 353671110019404/353671110025948
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.



1.4. Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz LTE Band 7 : 2502.5 MHz ~ 2567.5 MHz LTE Band 38 : 2572.5 MHz ~ 2617.5 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz NFC : 13.56 MHz
Rx Frequency	GSM850: 869.2 MHz ~ 893.8 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz WCDMA Band V: 871.4 MHz ~ 891.6 MHz WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz LTE Band 7 : 2622.5 MHz ~ 2687.5 MHz LTE Band 38: 2572.5 MHz ~ 2617.5 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz GNSS : 1559 MHz ~ 1610 MHz NFC : 13.56 MHz
Antenna Type	WWAN : PIFA Antenna WLAN : PIFA Antenna Bluetooth : PIFA Antenna GNSS: PIFA Antenna NFC : Loop Antenna
Type of Modulation	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 802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) Bluetooth LE : GFSK Bluetooth (1Mbps) : GFSK Bluetooth (2Mbps) : $\pi/4$ -DQPSK Bluetooth (3Mbps) : 8-DPSK GNSS : BPSK NFC: ASK

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.

Test Firm	Sporton International (Kunshan) Inc.		
Test Site Location	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		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	CO01-KS 03CH06-KS	CN1257	314309

1.7. Test Software

Item	Site	Manufacture	Name	Version
1.	03CH06-KS	AUDIX	E3	6.2009-8-24a1
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

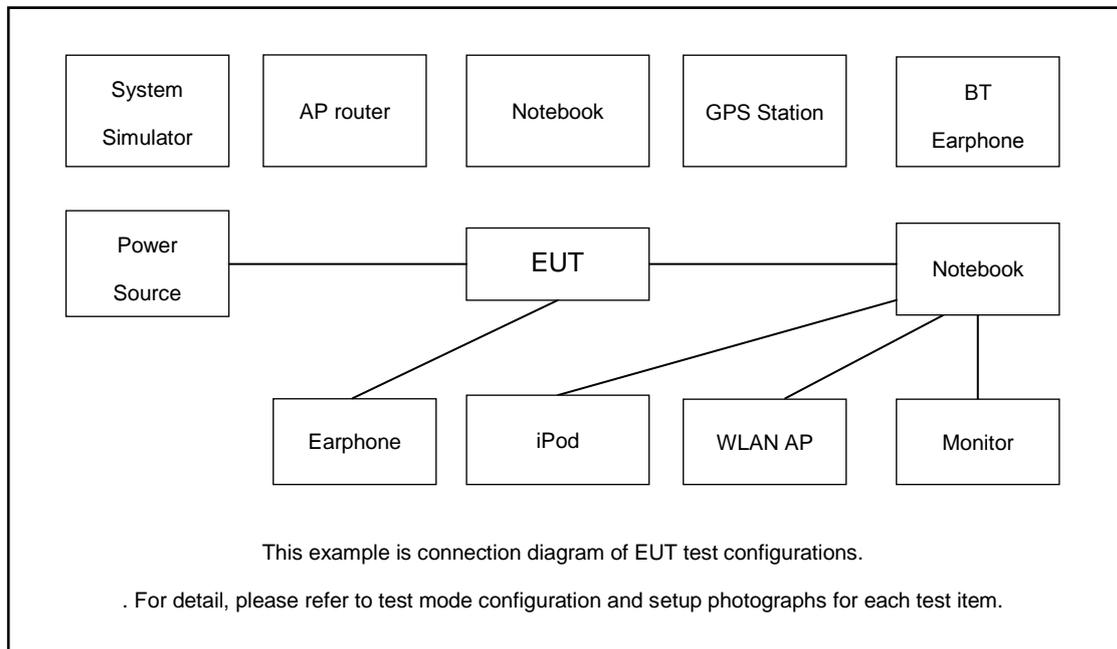
2.1. Test Mode

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: GSM850 Rx (Middle) + Bluetooth Idle + WLAN (2.4G) + Camera(Rear) + Earphone 1 + USB Cable(Charging from Adapter) Mode 2: WCDMA Band II Rx + Bluetooth Idle + WLAN (2.4G) + Camera(Front) + Earphone 2 + USB Cable(Charging from Adapter) Mode 3: WCDMA Band V Rx(Low) + Bluetooth Idle + WLAN (2.4G) + MP4 + Earphone 3 + USB Cable(Charging from Adapter) Mode 4: LTE Band 7 Rx + Bluetooth Idle + WLAN (2.4G) + NFC On + Earphone 1 + USB Cable(Charging from Adapter) Mode 5: LTE Band 38 Rx + Bluetooth Idle + WLAN (2.4G) + GNSS Rx + Earphone 1 + USB Cable(Data Link with notebook)
Radiated Emissions	Mode 1: GSM850 Rx (Middle) + Bluetooth Idle + WLAN (2.4G) + Camera(Rear) + Earphone 1 + USB Cable(Charging from Adapter) Mode 2: WCDMA Band II Rx + Bluetooth Idle + WLAN (2.4G) + Camera(Front) + Earphone 2 + USB Cable(Charging from Adapter) Mode 3: WCDMA Band V Rx(Low) + Bluetooth Idle + WLAN (2.4G) + MP4 + Earphone 3 + USB Cable(Charging from Adapter) Mode 4: LTE Band 7 Rx + Bluetooth Idle + WLAN (2.4G) + NFC On + Earphone 1 + USB Cable(Charging from Adapter) Mode 5: LTE Band 38 Rx + Bluetooth Idle + WLAN (2.4G) + GNSS Rx + Earphone 1 + USB Cable (Data Link with notebook)
Remark: <ol style="list-style-type: none"> The worst case of AC is mode 1; only the test data of this mode is reported. The worst case of RE is mode 5; only the test data of this mode is reported. Data Link with Notebook means data application transferred mode between EUT and Notebook. Pre-scanned Low/Middle channel for GSM 850/WCDMA Band V, the worst channel was recorded in this report. 	

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	MT8820C	N/A	N/A	Unshielded,1.8m
2.	Signal Generator	R&S	SMBV100A	N/A	N/A	Unshielded,1.8m
3.	WLAN AP	TP-Link	TL-WDR5600	N/A	N/A	Unshielded,1.8m
4.	WLAN AP	D-link	DIR-655	KA21R655B1	N/A	Unshielded,1.8m
5.	Bluetooth Earphone	Xiaomi	LYEJ02LM	N/A	N/A	N/A
6.	Bluetooth Earphone	Lenovo	LBH308	N/A	N/A	N/A
7.	Notebook	Dell	Latitude3440	N/A	N/A	shielded cable DC O/P 1.8m , Unshielded AC I/P cable 1.8m
8.	Notebook	Lenovo	G480	QDS-BRCM1050I	N/A	shielded cable DC O/P 1.8m , Unshielded AC I/P cable 1.8m
9.	iPod	Apple	A1199	Fcc DoC	Shielded, 1.2m	N/A
10.	SD Card	SanDisk	Uitra	N/A	N/A	N/A
11.	SD Card	Kingston	8GB	N/A	N/A	N/A
12.	Hard disk	Lenovo	FH310	Fcc DoC	Shielded, 1.2m	N/A

2.4. EUT Operation Test Setup

The EUT was in GSM or WCDMA or LTE 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 the Bluetooth earphone or 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 GNSS function to make the EUT receive continuous signals from GNSS station.
3. Turn on camera to capture images.
4. Turn on NFC Function.
5. Turn on camera to capture images.

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.

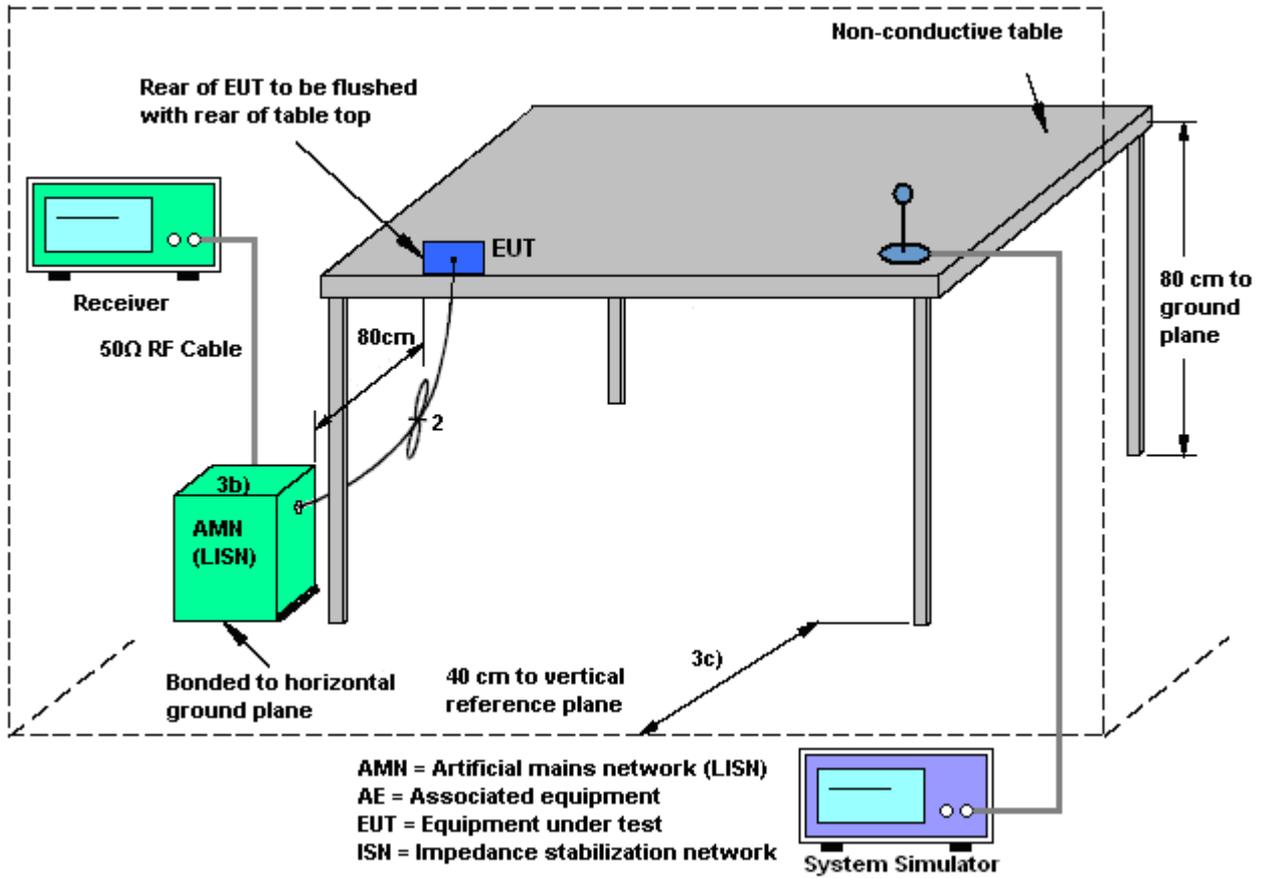
3.1.2 Measuring Instruments

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.

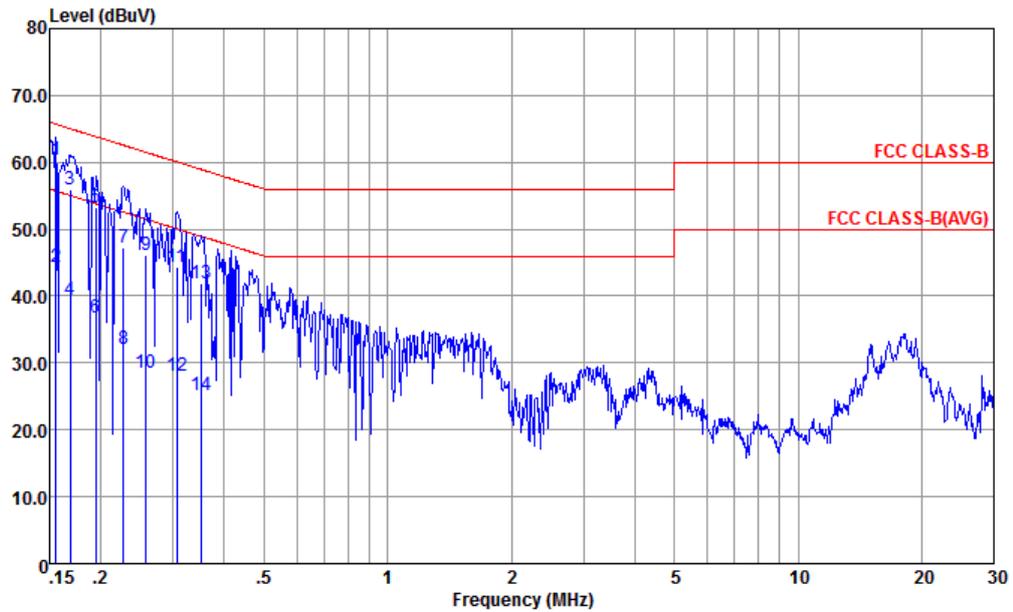
3.1.4 Test Setup





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.		

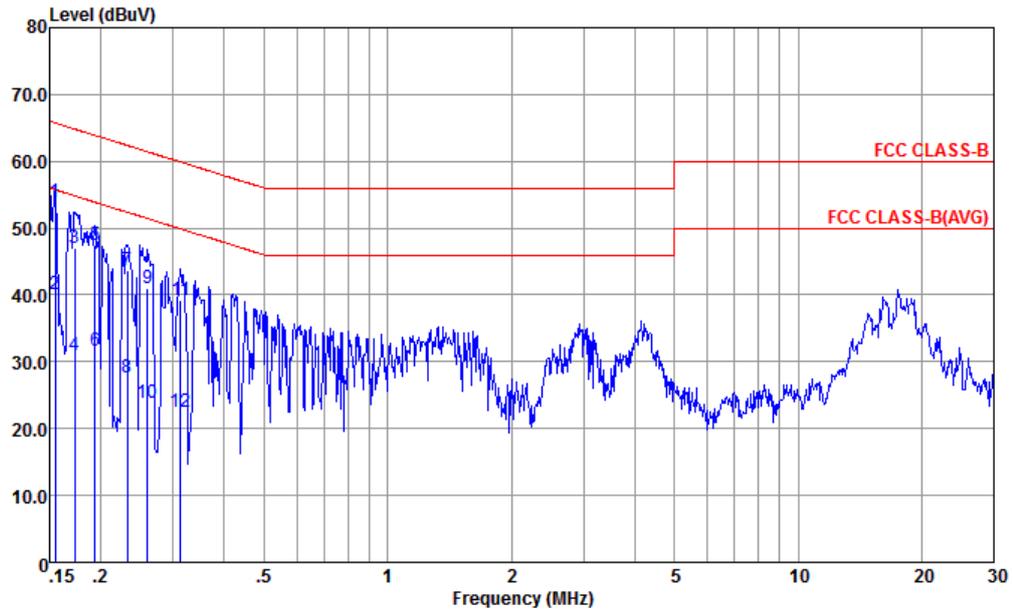


Site : CO01-KS
 Condition : FCC CLASS-B LISN-L-191028-060105 LINE
 Project : (FC) 010912
 mode : Mode 1
 : 353671110015899/353671110022432 #28

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1 *	0.156	60.30	-5.39	65.69	49.80	0.03	10.47	QP
2	0.156	44.30	-11.39	55.69	33.80	0.03	10.47	Average
3	0.169	55.97	-9.06	65.03	45.51	0.03	10.43	QP
4	0.169	39.37	-15.66	55.03	28.91	0.03	10.43	Average
5	0.194	53.31	-10.53	63.84	42.90	0.04	10.37	QP
6	0.194	36.71	-17.13	53.84	26.30	0.04	10.37	Average
7	0.227	47.19	-15.38	62.57	36.80	0.04	10.35	QP
8	0.227	31.99	-20.58	52.57	21.60	0.04	10.35	Average
9	0.258	46.17	-15.34	61.51	35.79	0.05	10.33	QP
10	0.258	28.47	-23.04	51.51	18.09	0.05	10.33	Average
11	0.307	44.25	-15.81	60.06	33.90	0.05	10.30	QP
12	0.307	28.15	-21.91	50.06	17.80	0.05	10.30	Average
13	0.352	41.94	-16.97	58.91	31.61	0.05	10.28	QP
14	0.352	25.24	-23.67	48.91	14.91	0.05	10.28	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 LISN-N-191028-060105 NEUTRAL
 Project : (FC) 010912
 mode : Mode 1
 : 353671110015899/353671110022432 #28

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1 *	0.155	53.85	-11.89	65.74	43.30	0.08	10.47	QP
2	0.155	40.15	-15.59	55.74	29.60	0.08	10.47	Average
3	0.173	47.10	-17.71	64.81	36.60	0.08	10.42	QP
4	0.173	31.00	-23.81	54.81	20.50	0.08	10.42	Average
5	0.193	47.36	-16.53	63.89	36.90	0.08	10.38	QP
6	0.193	31.66	-22.23	53.89	21.20	0.08	10.38	Average
7	0.232	43.73	-18.66	62.39	33.31	0.08	10.34	QP
8	0.232	27.73	-24.66	52.39	17.31	0.08	10.34	Average
9	0.260	40.91	-20.51	61.42	30.49	0.09	10.33	QP
10	0.260	23.91	-27.51	51.42	13.49	0.09	10.33	Average
11	0.313	39.29	-20.59	59.88	28.90	0.09	10.30	QP
12	0.313	22.59	-27.29	49.88	12.20	0.09	10.30	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.

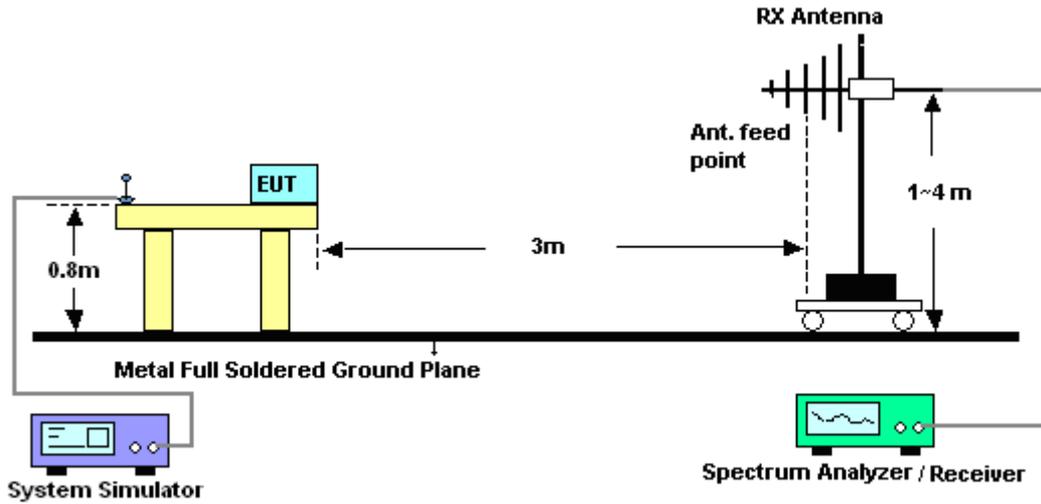


3.2.3. Test Procedures

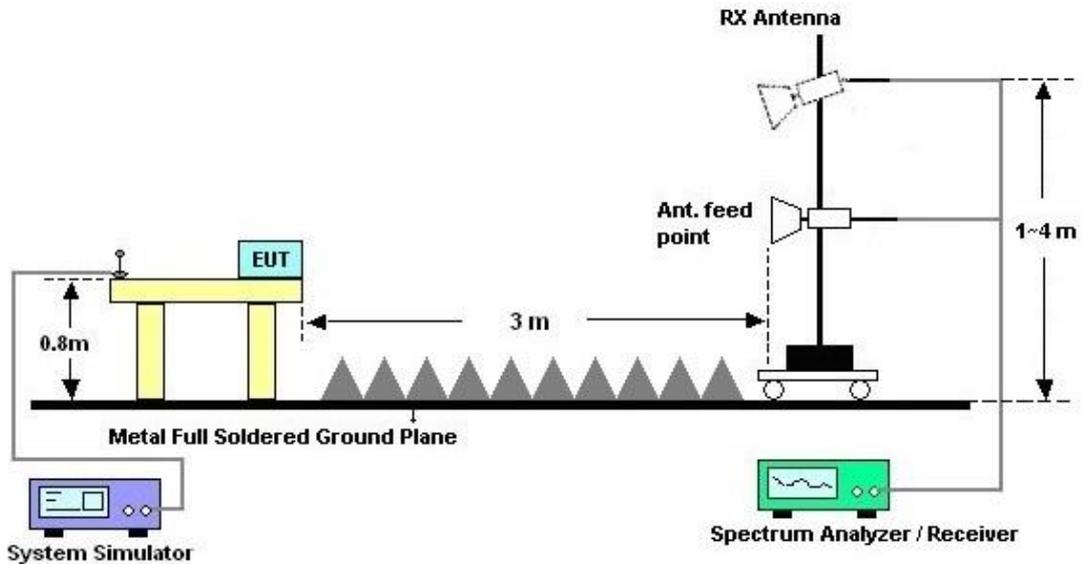
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna 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 μ V/m) = 20 log Emission level (μ 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



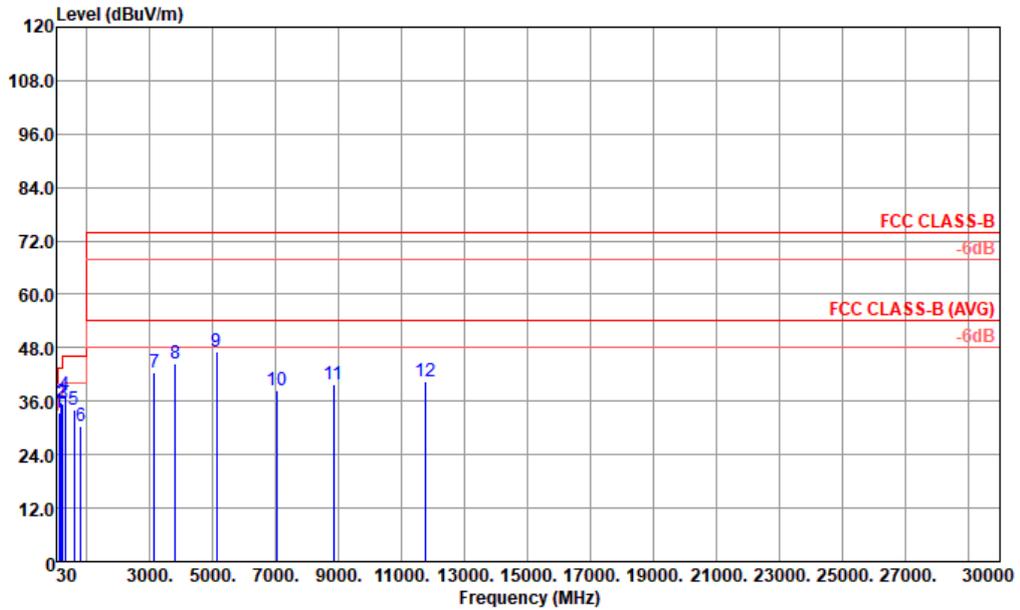
For radiated emissions above 1GHz





3.2.5. Test Result of Radiated Emission

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

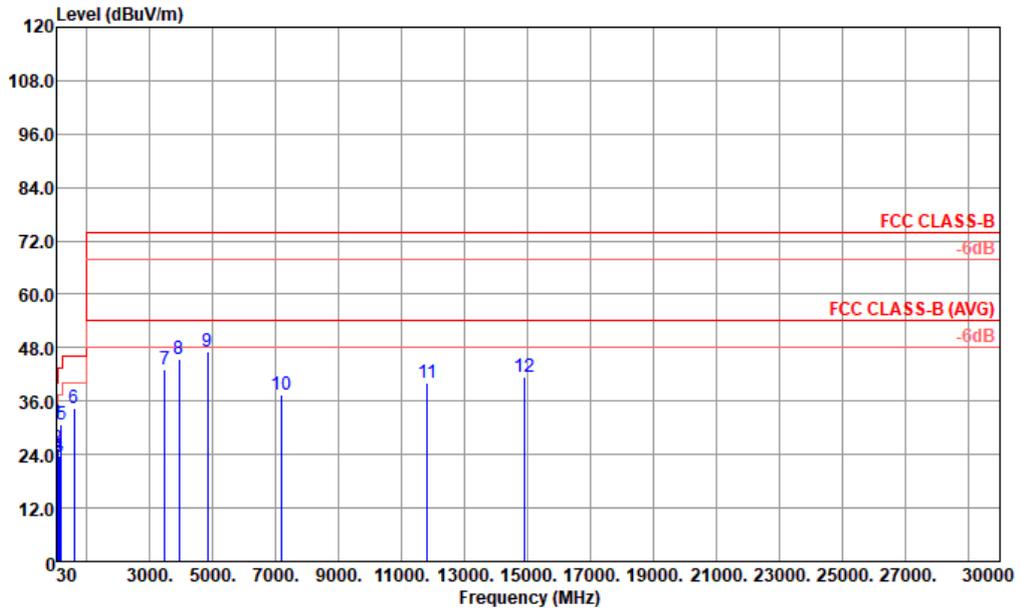


Site : 03CH06-KS
 Condition : FCC CLASS-B 3m CBL6112D SN 23188 HORIZONTAL
 Mode : 5

	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	122.15	33.48	-10.02	43.50	46.53	18.11	1.78	32.94	---	---	Peak
2	190.05	35.92	-7.58	43.50	51.21	15.45	2.18	32.92	100	---	0 Peak
3	223.03	35.27	-10.73	46.00	50.26	15.61	2.35	32.95	---	---	Peak
4	293.84	37.45	-8.55	46.00	48.66	19.11	2.70	33.02	---	---	Peak
5	587.75	34.13	-11.87	46.00	39.42	24.46	3.59	33.34	---	---	Peak
6	797.27	30.57	-15.43	46.00	33.16	26.07	4.35	33.01	---	---	Peak
7	3135.00	42.45	-31.55	74.00	32.15	33.00	8.39	31.09	---	---	Peak
8	3805.00	44.36	-29.64	74.00	32.49	33.40	9.28	30.81	---	---	Peak
9	5120.00	46.97	-27.03	74.00	32.35	34.23	10.86	30.47	---	---	Peak
10	7032.00	38.60	-35.40	74.00	19.53	36.30	13.66	30.89	---	---	Peak
11	8844.00	39.69	-34.31	74.00	19.79	36.37	14.18	30.65	---	---	Peak
12	11760.00	40.60	-33.40	74.00	17.15	38.37	16.29	31.21	---	---	Peak



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



Site : 03CH06-KS
 Condition : FCC CLASS-B 3m CBL6112D SN 23188 VERTICAL
 Mode : 5

	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	44.55	31.17	-8.83	40.00	46.66	16.30	1.17	32.96	100	0 Peak
2	57.16	25.27	-14.73	40.00	43.75	12.92	1.55	32.95	---	Peak
3	92.08	23.28	-20.22	43.50	39.73	15.22	1.25	32.92	---	Peak
4	121.18	23.90	-19.60	43.50	36.91	18.16	1.77	32.94	---	Peak
5	190.05	30.66	-12.84	43.50	45.95	15.45	2.18	32.92	---	Peak
6	599.39	34.52	-11.48	46.00	39.52	24.59	3.76	33.35	---	Peak
7	3480.00	43.19	-30.81	74.00	32.30	33.00	8.83	30.94	---	Peak
8	3920.00	45.50	-28.50	74.00	33.32	33.50	9.41	30.73	---	Peak
9	4835.00	47.20	-26.80	74.00	32.92	34.20	10.54	30.46	---	Peak
10	7176.00	37.41	-36.59	74.00	18.38	36.33	13.67	30.97	---	Peak
11	11808.00	40.15	-33.85	74.00	16.61	38.42	16.34	31.22	---	Peak
12	14892.00	41.54	-32.46	74.00	14.14	39.98	18.70	31.28	---	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	ESCI7	100768	9kHz~7GHz;	Apr. 16, 2019	Feb. 28, 2020	Apr. 15, 2020	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	Oct. 28, 2019	Feb. 28, 2020	Oct. 27, 2020	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 18, 2019	Feb. 28, 2020	Oct. 17, 2020	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP0000008 11	AC 0V~300V, 45Hz~1000Hz	Oct. 18, 2019	Feb. 28, 2020	Oct. 17, 2020	Conduction (CO01-KS)
EMI Test Receiver	Keysight	N9038A	MY57290157	3Hz~8.5GHz;M ax 30dBm	Jul. 18, 2019	Feb. 25, 2020	Jul. 17, 2020	Radiation (03CH06-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150208	10Hz~44GHz	Apr. 16, 2019	Feb. 25, 2020	Apr. 15, 2020	Radiation (03CH06-KS)
Bilog Antenna	TeseQ	CBL6111D	49921	30MHz~1GHz	May 30, 2019	Feb. 25, 2020	May 29, 2020	Radiation (03CH06-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00218652	1GHz~18GHz	Apr. 27, 2019	Feb. 25, 2020	Apr. 26, 2020	Radiation (03CH06-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 08, 2020	Feb. 25, 2020	Jan. 07, 2021	Radiation (03CH06-KS)
Amplifier	MITEQ	TTA1840-35-H G	2014749	18~40GHz	Jan. 08, 2020	Feb. 25, 2020	Jan.07, 2021	Radiation (03CH06-KS)
Amplifier	SONOMA	310N	187289	9KHz ~1GHZ	Aug. 06, 2019	Feb. 25, 2020	Aug. 05, 2020	Radiation (03CH06-KS)
Amplifier	Keysight	83017A	MY53270203	500MHz~26.5G Hz	Apr. 15, 2019	Feb. 25, 2020	Apr. 14, 2020	Radiation (03CH06-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Feb. 25, 2020	NCR	Radiation (03CH06-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Feb. 25, 2020	NCR	Radiation (03CH06-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Feb. 25, 2020	NCR	Radiation (03CH06-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% ($U = 2Uc(y)$)	2.9dB
---	-------

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.0dB
---	-------

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.0dB
---	-------

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.0dB
---	-------