FCC Test Report

APPLICANT	:	Motorola Mobility LLC
EQUIPMENT	:	Mobile Cellular Phone
BRAND NAME	:	Motorola
MODEL NAME	:	10710
FCC ID	:	IHDT56WD3
STANDARD	:	FCC 47 CFR FCC Part 15 Subpart B
CLASSIFICATION	:	Certification

The product was received on Feb. 13, 2017 and testing was completed on Mar. 08, 2017. 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.

Prepared by: James Huang / Manager

Approved by: Jones Tsai / Manager

TAF Testing Laboratory 2627

Sporton International (KunShan) INC.

No.3-2, Pingxiang Road, Kunshan Development Zone, Jiangsu, China

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC721309	Rev. 01	Initial issue of report	Mar. 31, 2017

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 12.08 dB at 0.471 MHz
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	Under limit 4.90 dB at 195.870 MHz

1. General Description

1.1. Applicant

Motorola Mobility LLC
222 W, Merchandise Mart Plaza, Chicago IL 60654 USA

1.2. Manufacturer

Motorola Mobility LLC
222 W, Merchandise Mart Plaza, Chicago IL 60654 USA

1.3. Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	10710
FCC ID	IHDT56WD3
EUT supports Radios application	GSM/GPRS/EGPRS/WCDMA/HSPA/HSPA+/ DC-HSDPA/LTE/NFC WLAN2.4GHz 802.11b/g/n HT20/ Bluetooth v3.0+EDR/ Bluetooth v4.0 LE/Bluetooth v4.1 LE/Bluetooth v4.2 LE
IMEI Code	Conduction: 355633080011116/355633080018129 for Sample 1 355634080001834 for Sample 2 Radiation: 355633080005597/355633080012601 for Sample 1 355634080002980 for Sample 2
HW Version	B4-3
SW Version	nicklaus_oem_userdebug_7.0_NMA25.11_122_intcfg-test-keys_oem
EUT Stage	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 sample 1 and sample 2, the differences between two samples are only for SIM slot, sample 1 is dual SIM slot, sample 2 is single SIM slot. According to the difference, the sample 1 to perform full test and the sample 2 to verify worse mode for EMC test.

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 5 : 824.7 MHz ~ 848.3 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 5 : 869.7 MHz ~ 893.3 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 GPS : 1.57542 GHz FM : 88 MHz ~ 108 MHz NFC : 13.56 MHz
Antenna Type	WWAN : LDS Antenna WLAN : LDS Antenna Bluetooth : LDS Antenna GPS: LDS Antenna FM: External headset 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 (Uplink) DC-HSDPA : 64QAM LTE: QPSK / 16QAM 802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) Bluetooth LE : GFSK Bluetooth (1Mbps) : GFSK Bluetooth (2Mbps) : π /4-DQPSK Bluetooth (3Mbps) : 8-DPSK GPS : BPSK FM NFC: ASK

1.5. Specification of Accessory

Specification of Accessory				
AC Adapter (EU)	**Brand Name**	Motorola (AcBel)	**Model Name**	C-P36 SPN5944A
	Power Rating	I/P: 100 - 240 Vac, 0.3 A, O/P: 5.2 Vdc, 2.0 A		
AC Adapter (UK)	**Brand Name**	Motorola (AcBel)	**Model Name**	C-P37 SPN5940A
	Power Rating	I/P: 100 - 240 Vac, 0.3 A, O/P: 5.2 Vdc, 2.0 A		
AC Adapter (US)	**Brand Name**	Motorola (AcBel)	**Model Name**	C-P35 SPN5945A
	Power Rating	I/P: 100 - 240 Vac, 0.3 A, O/P: 5.2 Vdc, 2.0 A		
AC Adapter (IN)	**Brand Name**	Motorola (AcBel)	**Model Name**	C-P49 SPN5946A
	Power Rating	I/P: 100 - 240 Vac, 0.3 A, O/P: 5.2 Vdc, 2.0 A		
AC Adapter (AR)	**Brand Name**	Motorola (AcBel)	**Model Name**	C-P47 SPN5942A
	Power Rating	I/P: 100 - 240 Vac, 0.5 A, O/P: 5.2 Vdc, 2.0 A		
Battery	**Brand Name**	Motorola (Amperex)	**Model Name**	HE50
	Power Rating	0.38 Vdc, 5000 mAh	**Type**	Li-ion
USB Cable	**Brand Name**	Motorola (Li Qi)	**Model Name**	LQ-035050
	Signal Line Type	1.0m shielded cable without core		
Earphone	**Brand Name**	Motorola (Tenji)	**Model Name**	TJ-101814
	Signal Line Type	1.30m unshielded cable without core		

1.6. Modification of EUT

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

1.7. Test Location

Test Site	Sporton International (KunShan) INC.		
Test Site Location	No.3-2, Pingxiang Road, Kunshan Development Zone, Jiangsu, China TEL: +86-0512-5790-0158 FAX: +86-0512-5790-0958		
Test Site No.	**Sporton Site No.**		**FCC Registration No.**
	CO01-KS	03CH02-KS	418269

Note: The test site complies with ANSI C63.4 2014 requirement.

1.8. Applicable Standards

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

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

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. For FCC 15 Subpart B - Unintentional Radiators, device supporting USB interface or similar peripherals (defined as the Section 15.3 (r) Peripheral device) acting as a peripheral for personal computers shall be authorized as “The Class B personal computers and peripherals” per the Section 15.101 (a) Equipment authorization of unintentional radiators.
3. For other Unintentional Radiators features of this EUT, test reports are be issued separately.
   Per the Note of the Section 15.101, when device supports features (USB, FM Radio, digital devices…etc) more than one category of authorization, type of authorization shall be appropriately chosen for FCC 15B compliance rule, and the Section 15.101 (b), only those receivers that operate (tune) within the frequency range of 30-960 MHz, CB receivers and radar detectors are subject to the authorizations shown in paragraph (a) of the Section 15.101. However, receivers indicated as being subject to Declaration of Conformity that are contained within a transceiver, the transmitter portion of which is subject to certification, shall be authorized under the verification procedure.

2. Test Configuration of Equipment Under Test

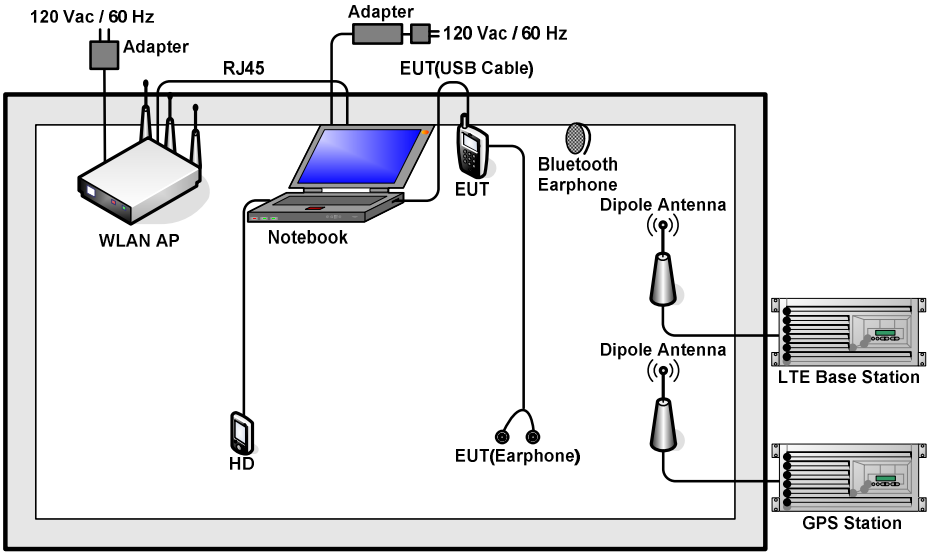
2.1. Test Mode

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 (150 kHz to 30 MHz), radiation (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 : LTE Band 5 Idle + Bluetooth Idle + WLAN Idle + Earphone + USB Cable(Data Link with Notebook) + Battery + GPS Rx + SIM 1 for Sample 1 Mode 2 : LTE Band 5 Idle + Bluetooth Idle + WLAN Idle + Earphone + USB Cable(Data Link with Notebook) + Battery + GPS Rx for Sample 2
Radiated Emissions < 1GHz	Mode 1 : LTE Band 5 Idle + Bluetooth Idle + WLAN Idle + Earphone + USB Cable(Data Link with Notebook) + Battery + GPS Rx + SIM 1 for Sample 1 Mode 2 : LTE Band 5 Idle + Bluetooth Idle + WLAN Idle + Earphone + USB Cable(Data Link with Notebook) + Battery + GPS Rx for Sample 2
Radiated Emissions ≥ 1GHz	Mode 1 : LTE Band 5 Idle + Bluetooth Idle + WLAN Idle + Earphone + USB Cable(Data Link with Notebook) + Battery + GPS Rx for Sample 2
Remark: **1.** The worst case of AC is mode 1; only the test data of this mode was reported. **2.** The worst case of RE < 1G is mode 2; only the test data of this mode was reported. **3.** Data Link with Notebook means data application transferred mode between EUT and Notebook.	

2.2. Connection Diagram of Test System



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, 1.8 m
2.	GPS Station	ADIVIC	MP9000	N/A	N/A	Unshielded, 1.8 m
3.	WLAN AP	LINKSYS	WRT600N	Q87-WRT600NV11	N/A	Unshielded, 1.8 m
4.	WLAN AP	TP-LINK	TL-WDR5600	N/A	N/A	Unshielded, 1.8 m
5.	WLAN AP	D-link	DIR-855	KA2DIR855A2	N/A	Unshielded, 1.8 m
6.	Notebook	Lenovo	G480	PRC4	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
7.	Notebook	Dell	Latitude3440	N/A	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
8.	Bluetooth Earphone	Lenovo	LBH308	N/A	N/A	N/A
9.	Hard Disk	Lenovo	F310	FCC DoC	Shielded, 0.5 m	N/A
10.	SD Card	Kingston	4GB	N/A	N/A	N/A
11.	SD Card	SanDisk	Uitra	N/A	N/A	N/A

2.4. EUT Operation Test Setup

The EUT was in 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 GPS function to make the EUT receive continuous signals from GPS 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.

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.

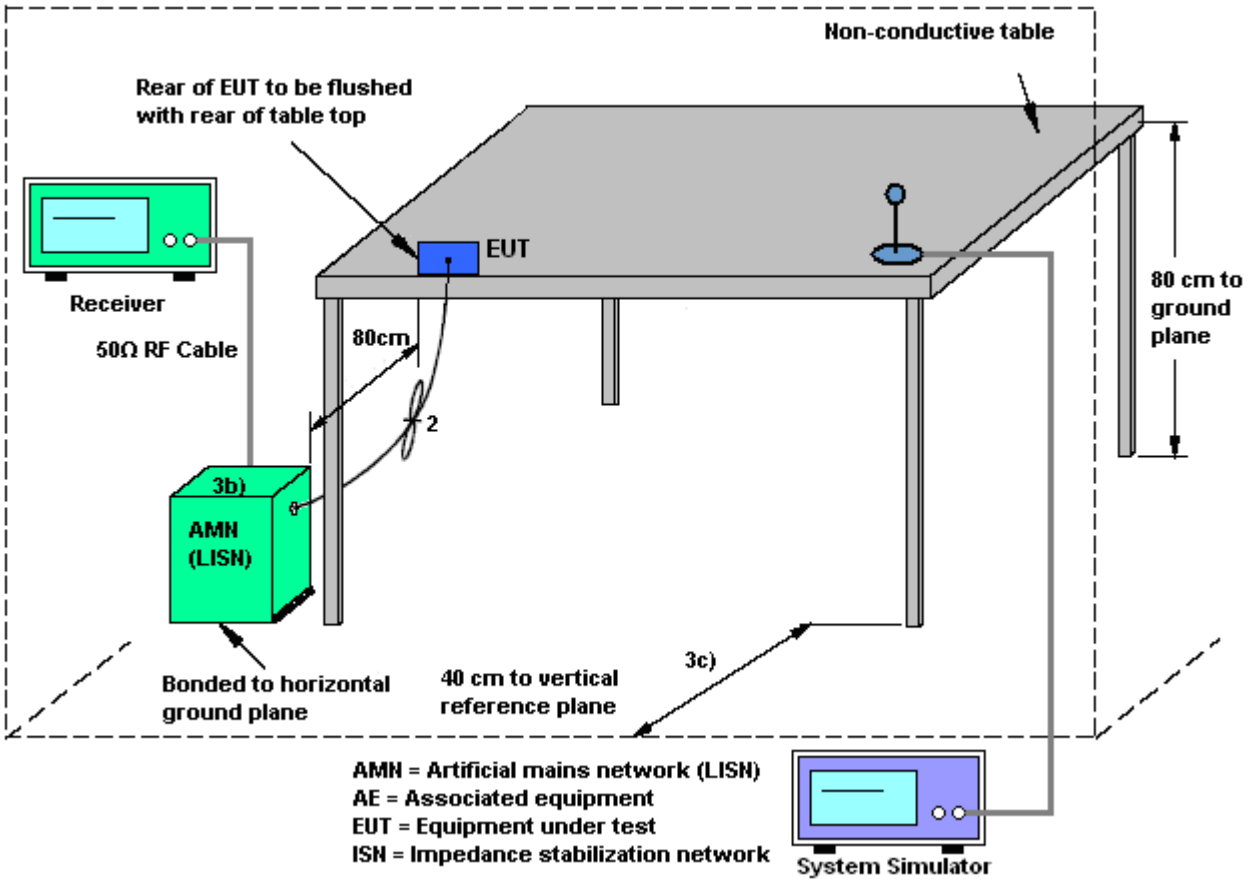
3.1.2 Measuring Instruments

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

3.1.3 Test Procedure

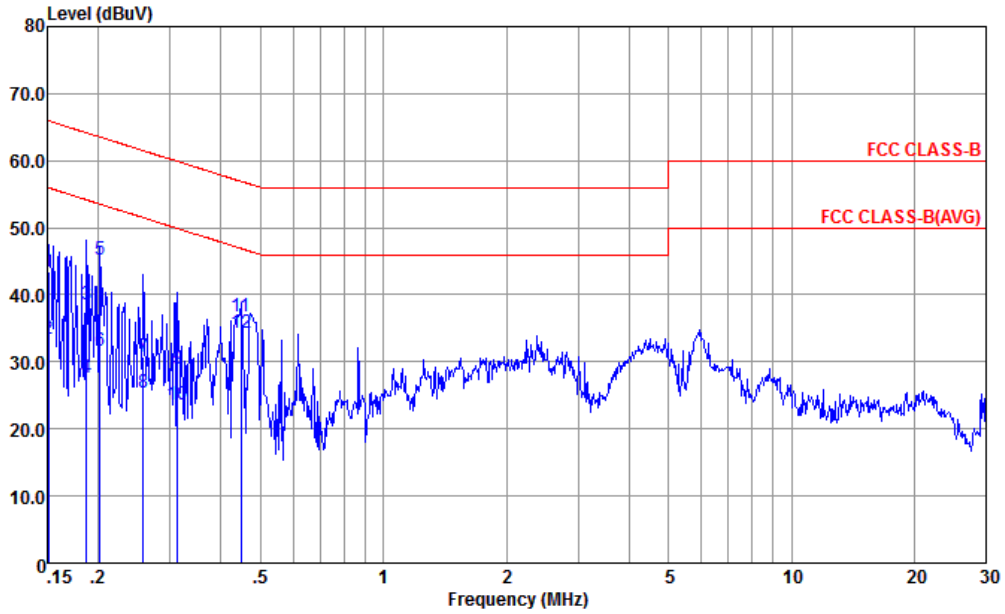
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
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

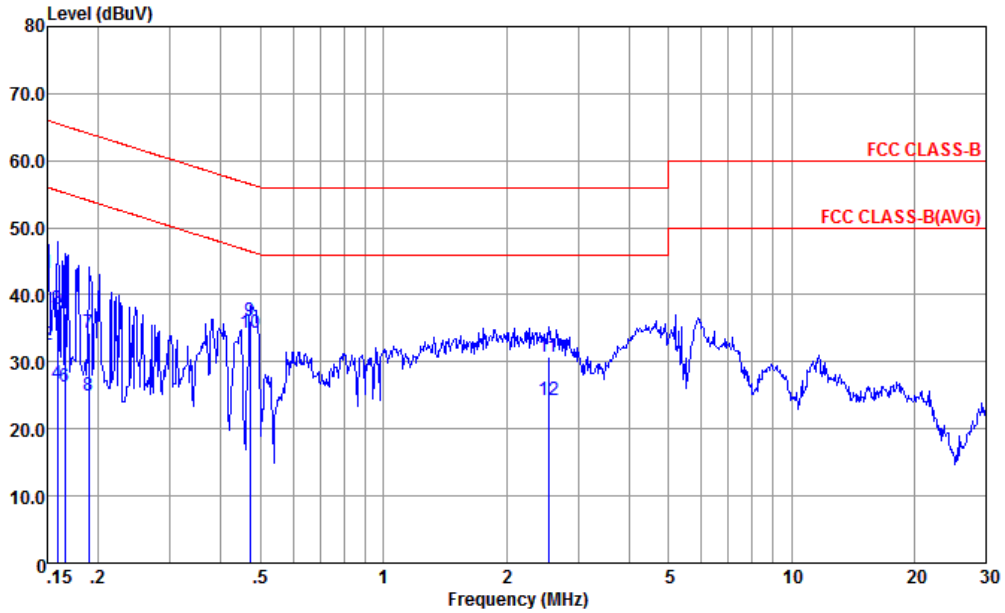
Test Mode :	Mode 1	**Temperature :**	20~22℃
Test Engineer :	Peter Wei	**Relative Humidity :**	40~42%
Test Voltage :	120Vac / 60Hz	**Phase :**	Line
Function Type :	LTE Band 5 Idle + Bluetooth Idle + WLAN Idle + Earphone + USB Cable(Data Link with Notebook) + Battery + GPS Rx + SIM 1 for Sample 1		



Site : CO01-KS
Condition : FCC CLASS-B LISN-L-20151024 LINE
Project : (FC) 721309
mode : Mode 1

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.151	43.42	-22.54	65.96	32.50	0.53	10.39	QP
2	0.151	33.52	-22.44	55.96	22.60	0.53	10.39	Average
3	0.187	38.64	-25.51	64.15	28.00	0.29	10.35	QP
4	0.187	27.54	-26.61	54.15	16.90	0.29	10.35	Average
5	0.202	45.25	-18.29	63.54	34.70	0.22	10.33	QP
6	0.202	31.55	-21.99	53.54	21.00	0.22	10.33	Average
7	0.258	30.71	-30.80	61.51	20.21	0.22	10.28	QP
8	0.258	25.51	-26.00	51.51	15.01	0.22	10.28	Average
9	0.313	28.97	-30.91	59.88	18.50	0.22	10.25	QP
10	0.313	23.67	-26.21	49.88	13.20	0.22	10.25	Average
11	0.447	36.72	-20.21	56.93	26.30	0.23	10.19	QP
12 *	0.447	34.32	-12.61	46.93	23.90	0.23	10.19	Average

Test Mode :	Mode 1	Temperature :	20~22℃
Test Engineer :	Peter Wei	Relative Humidity :	40~42%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	LTE Band 5 Idle + Bluetooth Idle + WLAN Idle + Earphone + USB Cable(Data Link with Notebook) + Battery + GPS Rx + SIM 1 for Sample 1		



Site : CO01-KS
Condition : FCC CLASS-B LISN-N-20151024 NEUTRAL
Project : (FC) 721309
mode : Mode 1

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1		0.150	43.19	-22.81	66.00	32.50	0.30	10.39	QP
2		0.150	32.49	-23.51	56.00	21.80	0.30	10.39	Average
3		0.159	37.98	-27.54	65.52	27.30	0.30	10.38	QP
4		0.159	26.68	-28.84	55.52	16.00	0.30	10.38	Average
5		0.166	37.18	-27.98	65.16	26.51	0.30	10.37	QP
6		0.166	26.38	-28.78	55.16	15.71	0.30	10.37	Average
7		0.189	34.35	-29.71	64.06	23.70	0.31	10.34	QP
8		0.189	25.05	-29.01	54.06	14.40	0.31	10.34	Average
9		0.471	36.11	-20.38	56.49	25.60	0.32	10.19	QP
10	*	0.471	34.41	-12.08	46.49	23.90	0.32	10.19	Average
11		2.540	30.68	-25.32	56.00	20.10	0.37	10.21	QP
12		2.540	24.38	-21.62	46.00	13.80	0.37	10.21	Average

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:

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

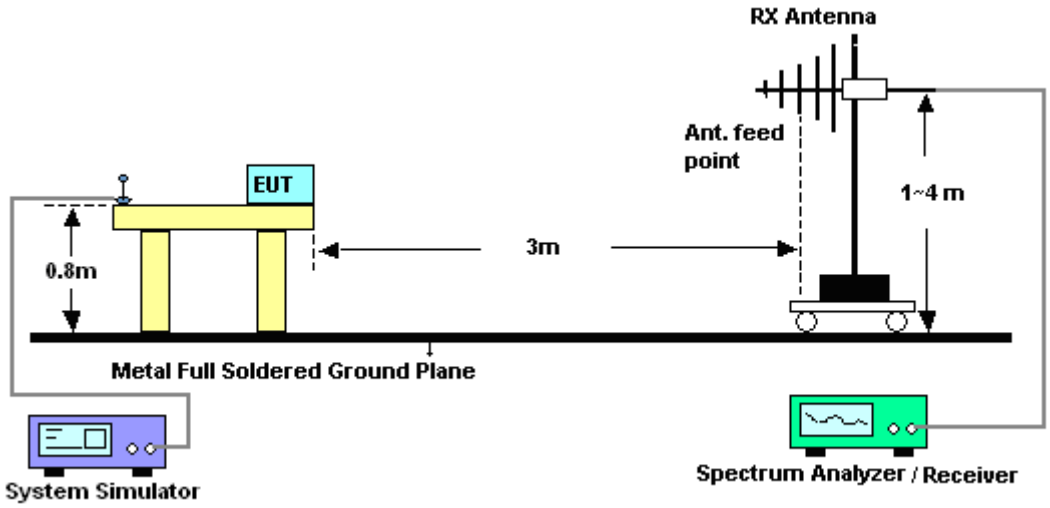
The measuring equipment is listed in the section 4 of this test report.

3.2.3. Test Procedures

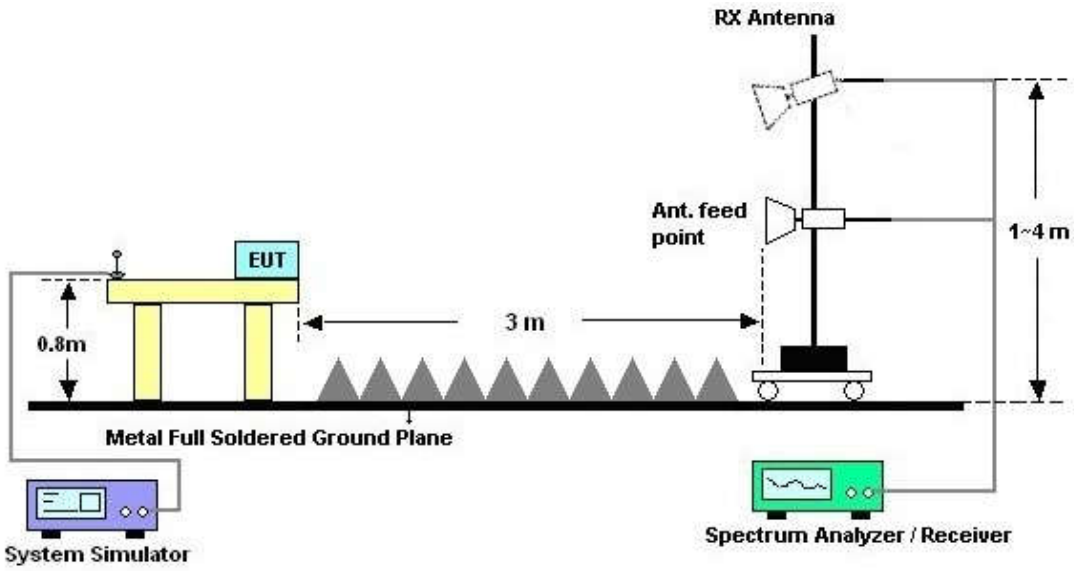
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna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

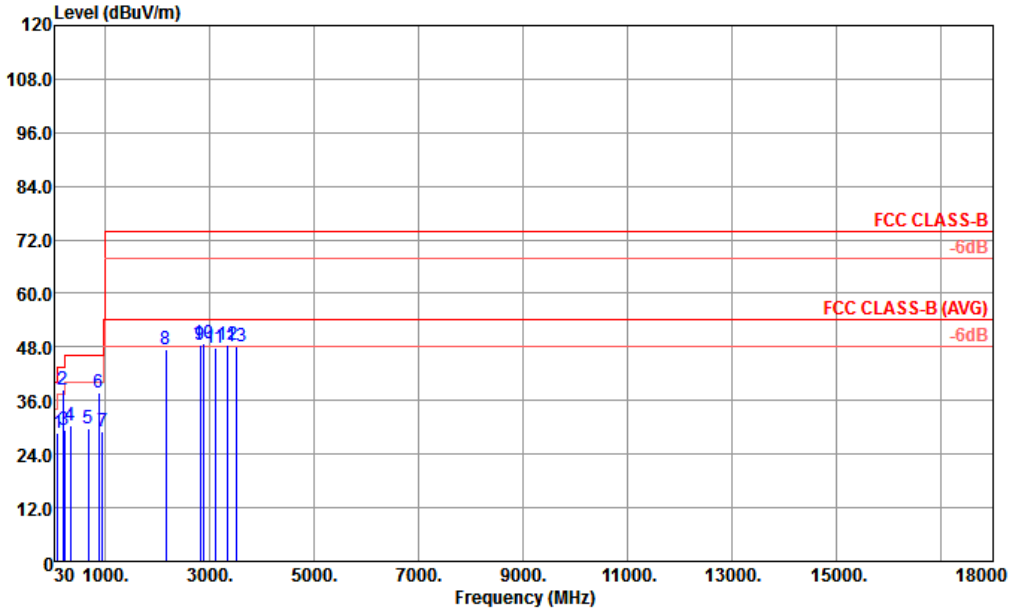


For radiated emissions above 1GHz



3.2.5. Test Result of Radiated Emission

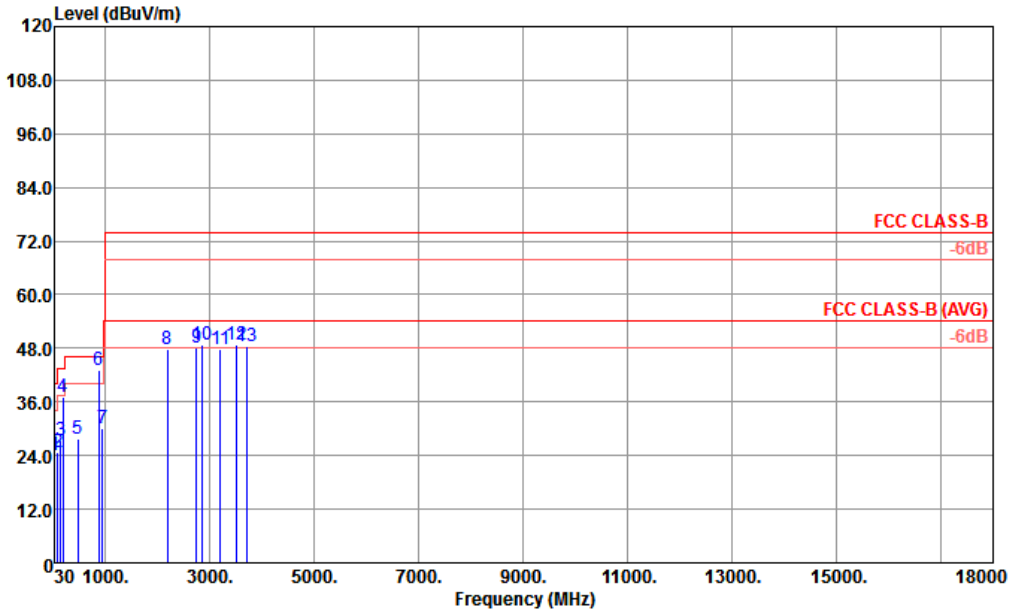
Test Mode :	Mode 2	**Temperature :**	21~22°C
Test Engineer :	Jason Peng	**Relative Humidity :**	41~42%
Test Distance :	3m	**Polarization :**	Horizontal
Function Type :	LTE Band 5 Idle + Bluetooth Idle + WLAN Idle + Earphone + USB Cable(Data Link with Notebook) + Battery + GPS Rx for Sample 2		
Remark :	#6 is system simulator signal which can be ignored.		



Site : 03CH02-KS
Condition : FCC CLASS-B 3m 966-02 LF ANT HORIZONTAL
Project : (FC)721309
Mode : 2
IMEI : 355634080002980 #29

		Freq	Level	Over Limit	Limit Line	Read 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		88.20	28.74	-14.76	43.50	43.43	16.75	0.21	31.65	---	---	Peak
2	!	195.87	38.60	-4.90	43.50	53.80	15.48	0.41	31.09	100	0	Peak
3		225.94	29.35	-16.65	46.00	43.56	16.39	0.46	31.06	---	---	Peak
4		331.67	30.42	-15.58	46.00	40.92	19.45	0.67	30.62	---	---	Peak
5		676.02	29.68	-16.32	46.00	30.96	26.03	1.11	28.42	---	---	Peak
6		882.63	37.72			35.69	27.46	1.59	27.02	---	---	Peak
7		948.59	28.94	-17.06	46.00	25.36	28.37	1.71	26.50	---	---	Peak
8		2172.00	47.46	-26.54	74.00	45.09	31.08	5.65	34.36	---	---	Peak
9		2824.00	48.61	-25.39	74.00	41.49	32.14	2.76	27.78	---	---	Peak
10		2878.00	48.75	-25.25	74.00	41.69	32.27	2.90	28.11	---	---	Peak
11		3108.00	47.89	-26.11	74.00	40.37	33.04	4.76	30.28	---	---	Peak
12		3336.00	48.47	-25.53	74.00	39.85	33.58	5.96	30.92	---	---	Peak
13		3504.00	48.26	-25.74	74.00	39.45	33.78	6.02	30.99	---	---	Peak

Test Mode :	Mode 2	Temperature :	21~22°C
Test Engineer :	Jason Peng	Relative Humidity :	41~42%
Test Distance :	3m	Polarization :	Vertical
Function Type :	LTE Band 5 Idle + Bluetooth Idle + WLAN Idle + Earphone + USB Cable(Data Link with Notebook) + Battery + GPS Rx for Sample 2		
Remark :	#6 is system simulator signal which can be ignored.		



Site : 03CH02-KS
Condition : FCC CLASS-B 3m 966-02 LF ANT VERTICAL
Project : (FC)721309
Mode : 2
IMEI : 355634080002980 #29

	Freq	Level	Over Limit	Limit Line	Read 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	38.73	24.22	-15.78	40.00	33.41	22.50	0.12	31.81	---	---	Peak
2	88.20	24.83	-18.67	43.50	39.52	16.75	0.21	31.65	---	---	Peak
3	157.07	27.25	-16.25	43.50	41.11	17.28	0.34	31.48	---	---	Peak
4	195.87	37.22	-6.28	43.50	52.42	15.48	0.41	31.09	100	0	Peak
5	480.08	27.84	-18.16	46.00	33.25	23.37	0.92	29.70	---	---	Peak
6 !	881.66	43.08			41.07	27.45	1.59	27.03	---	---	Peak
7	948.59	30.12	-15.88	46.00	26.54	28.37	1.71	26.50	---	---	Peak
8	2198.00	47.95	-26.05	74.00	45.32	31.14	5.80	34.31	---	---	Peak
9	2750.00	48.21	-25.79	74.00	41.87	31.99	2.91	28.56	---	---	Peak
10	2868.00	48.70	-25.30	74.00	41.53	32.27	2.85	27.95	---	---	Peak
11	3204.00	47.88	-26.12	74.00	39.59	33.42	6.05	31.18	---	---	Peak
12	3528.00	48.71	-25.29	74.00	39.85	33.82	6.04	31.00	---	---	Peak
13	3708.00	48.51	-25.49	74.00	39.21	34.30	6.34	31.34	---	---	Peak

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. 29, 2016	Mar. 08, 2017	Apr. 28, 2017	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060103	9kHz~30MHz	Oct. 13, 2016	Mar. 08, 2017	Oct. 12, 2017	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060105	9kHz~30MHz	Oct. 13, 2016	Mar. 08, 2017	Oct. 12, 2017	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 13, 2016	Mar. 08, 2017	Oct. 12, 2017	Conduction (CO01-KS)
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz; Max 30dBm	Aug. 09, 2016	Feb. 27, 2017	Aug. 08, 2017	Radiation (03CH02-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150208	10Hz~44GHz, MAX 30dB	Apr. 22, 2016	Feb. 27, 2017	Apr. 21, 2017	Radiation (03CH02-KS)
Bilog Antenna	TeseQ	CBL6112D	37879	30MHz~2GHz	Aug. 20, 2016	Feb. 27, 2017	Aug. 19, 2017	Radiation (03CH02-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Oct. 22, 2016	Feb. 27, 2017	Oct. 21, 2017	Radiation (03CH02-KS)
Amplifier	com-power	PA-103A	161069	1kHz~1000MHz / 32 dB	Apr. 22, 2016	Feb. 27, 2017	Apr. 21, 2017	Radiation (03CH02-KS)
Amplifier	Agilent	8449B	3008A02384	1-26.5GHz Gain 30dB	Oct. 13, 2016	Feb. 27, 2017	Oct. 12, 2017	Radiation (03CH02-KS)
AC Power Source	Chroma	61601	616010002473	N/A	NCR	Feb. 27, 2017	NCR	Radiation (03CH02-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Feb. 27, 2017	NCR	Radiation (03CH02-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Feb. 27, 2017	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))	2.3dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.2dB

Uncertainty of Radiated Emission Measurement (1GHz ~ 18GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.7dB