



FCC Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : 10717
FCC ID : IHDT56WF2
STANDARD : FCC 47 CFR FCC Part 15 Subpart B
CLASSIFICATION : Certification

The product was received on Jan. 05, 2017 and testing was completed on Jan. 28, 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

SPORTON INTERNATIONAL (KUNSHAN) INC.

No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P. R. 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. Specification of Accessory	7
1.6. Modification of EUT	7
1.7. Test Location	8
1.8. Applicable Standards	9
2. TEST CONFIGURATION OF EQUIPMENT UNDER TEST	10
2.1. Test Mode	10
2.2. Connection Diagram of Test System	11
2.3. Support Unit used in test configuration and system	12
2.4. EUT Operation Test Setup	12
3. TEST RESULT	13
3.1. Test of AC Conducted Emission Measurement	13
3.2. Test of Radiated Emission Measurement	17
4. LIST OF MEASURING EQUIPMENT	21
5. UNCERTAINTY OF EVALUATION	22
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 11.49 dB at 0.150 MHz
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	Under limit 10.46 dB at 948.590 MHz for Peak



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	10717
FCC ID	IHDT56WF2
EUT supports Radios application	GSM/GPRS/EGPRS/WCDMA/HSPA/ HSPA+(16QAM uplink is not supported)/DC-HSDPA/LTE WLAN2.4GHz 802.11b/g/n HT20 Bluetooth v3.0+EDR Bluetooth v4.0/4.1/4.2 LE
IMEI Code	Conduction: 355630082221475/355630080021483 for Sample 1 355631080001608 for Sample 2 Radiation: 355630080018414/355630080018422 for Sample 1 355631080002002 for Sample 2
HW Version	98736_1_12
SW Version	alps-mp-n0.mp1-V1.0.2_wt6737m.35.n_P16
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 II : 1852.4 MHz ~ 1907.6 MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz LTE Band 5 : 824.7 MHz ~ 848.3 MHz LTE Band 7 : 2502.5 MHz ~ 2567.5 MHz LTE Band 38 : 2572.5MHz ~ 2617.5MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz
Rx Frequency	GSM850: 869.2 MHz ~ 893.8 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz WCDMA Band V: 871.4 MHz ~ 891.6 MHz LTE Band 5 : 869.7 MHz ~ 893.3 MHz LTE Band 7 : 2622.5MHz ~ 2687.5 MHz LTE Band 38 : 2572.5MHz ~ 2617.5MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz GPS : 1.57542 GHz FM : 88 MHz ~ 108 MHz
Antenna Type	WWAN: IFA Antenna WLAN: IFA Antenna Bluetooth: IFA Antenna GPS: IFA Antenna FM: External headset 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 is not supported) 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) : $\pi/4$ -DQPSK Bluetooth (3Mbps) : 8-DPSK GPS : BPSK FM : FM



1.5. Specification of Accessory

Specification of Accessory				
AC Adapter	Brand Name	Motorola (Acbel)	Model Name	C-P56
	Power Rating	I/P: 100-240 Vac, 130mA, O/P: 5Vdc, 1000mA		
Battery	Brand Name	Motorola (SCUD)	Model Name	HC40
	Power Rating	3.8Vdc, 2245/2350mAh (Min/Typ)	Type	Li-ion
Earphone	Brand Name	Motorola (NEW LEADER)	Model Name	NLD-EM127T-97SF
	Signal Line Type	1.200 meter, non-shielded cable, without ferrite core		
USB Cable	Brand Name	Motorola (STARW)	Model Name	XJ-007075
	Signal Line Type	1.016 meter, shielded cable, without ferrite 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 (SHENZHEN) INC.	
Test Site Location	1F & 2F, Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili Town, Nanshan District, Shenzhen, Guangdong, P. R. China TEL: +86-755-8637-9589 FAX: +86-755-8637-9595	
Test Site No.	Sporton Site No.	
	CO01-SZ	

Test Site	SPORTON INTERNATIONAL (KUNSHAN) INC.	
Test Site Location	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P. R. China TEL: +86-0512-5790-0158 FAX: +86-0512-5790-0958	
Test Site No.	Sporton Site No.	FCC Registration No.
	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).

The following tables are showing the test modes as the worst cases and recorded in this report.

Item	EUT Configuration	Test Condition		
		EMI AC	EMI RE<1G	EMI RE≥1G
1.	Data application transferred mode (EUT with notebook)	☒	☒	☒

Abbreviations:

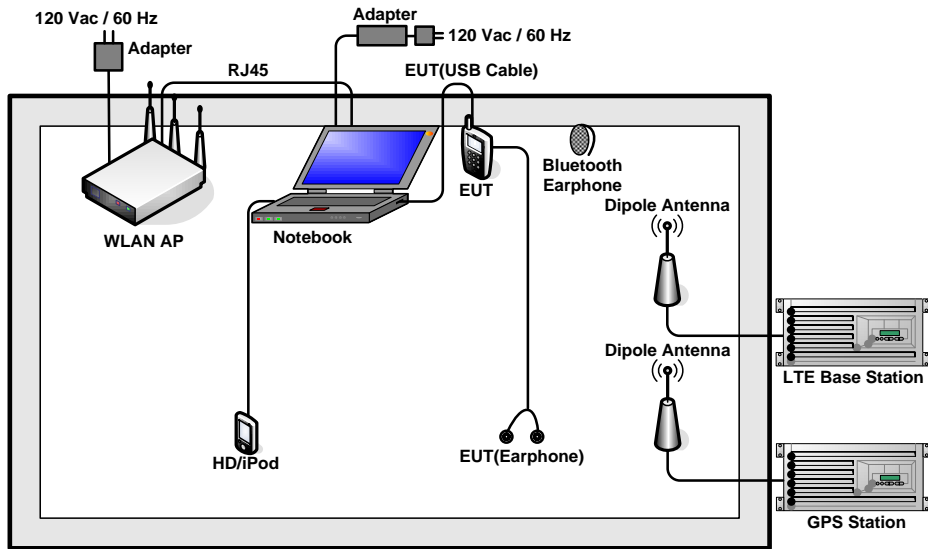
- EMI AC: AC conducted emissions
- EMI RE: EUT radiated emissions

Test Items	EUT Configure Mode	Function Type
AC Conducted Emission	1	Mode 1: LTE Band 5 Idle + Bluetooth Idle + WLAN Idle + Battery + Earphone + USB Cable(Data Link with Notebook) + GPS Rx + SIM1 for Sample 1 Mode 2: LTE Band 5 Idle + Bluetooth Idle + WLAN Idle + Battery + Earphone + USB Cable(Data Link with Notebook) + GPS Rx for Sample 2
Radiated Emissions < 1GHz	1	Mode 1: LTE Band 5 Idle + Bluetooth Idle + WLAN Idle + Battery + Earphone + USB Cable(Data Link with Notebook) + GPS Rx + SIM1 for Sample 1 Mode 2: LTE Band 5 Idle + Bluetooth Idle + WLAN Idle + Battery + Earphone + USB Cable(Data Link with Notebook) + GPS Rx for Sample 2
Radiated Emissions ≥ 1GHz	1	Mode 1: LTE Band 5 Idle + Bluetooth Idle + WLAN Idle + Battery + Earphone + USB Cable(Data Link with Notebook) + GPS Rx + SIM1 for Sample 1

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 1; only the test data of this mode was reported.

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	TP-LINK	TL-WDR5600	N/A	N/A	Unshielded, 1.8 m
4.	WLAN AP	D-Link	DIR-820L	KA2IR820LA1	N/A	Unshielded, 1.8 m
5.	Notebook	Lenovo	E540	N/A	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
6.	Notebook	Dell	Latitude3440	N/A	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
7.	Bluetooth Earphone	Nokia	BH-108	PYAHS-107W	N/A	N/A
8.	Bluetooth Earphone	Lenovo	LBH301	N/A	N/A	N/A
9.	SD Card	SanDisk	Ultra	N/A	N/A	N/A
10.	SD Card	SanDisk	4G class 4	FCC DoC	N/A	N/A
11.	Hard Disk	Lenovo	F310	FCC DoC	Shielded, 0.5 m	N/A
12.	iPod nano 8GB	Apple	MC690ZP/A	FCC DoC	Shielded, 1.2m	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.

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.

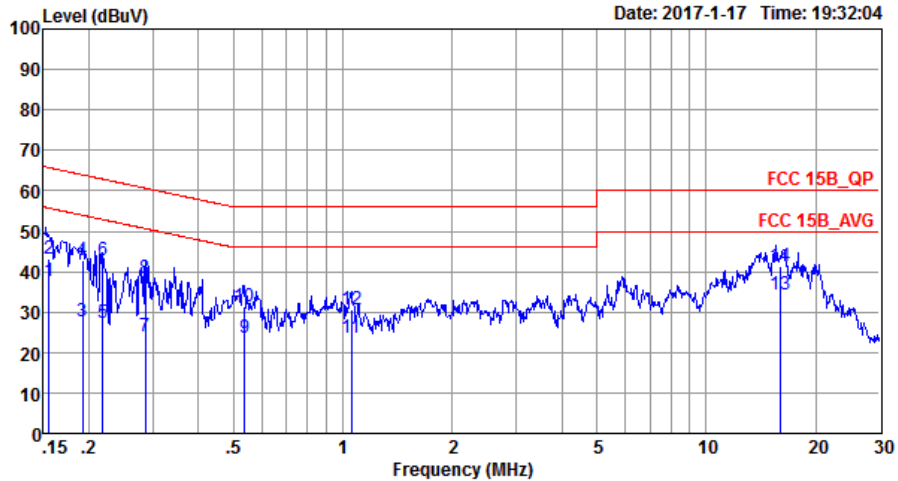
3.1.4 Test Setup





3.1.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	21~23°C
Test Engineer :	Tao Cheng	Relative Humidity :	41~42%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	LTE Band 5 Idle + Bluetooth Idle + WLAN Idle + Battery + Earphone + USB Cable(Data Link with Notebook) + GPS Rx + SIM1 for Sample 1		

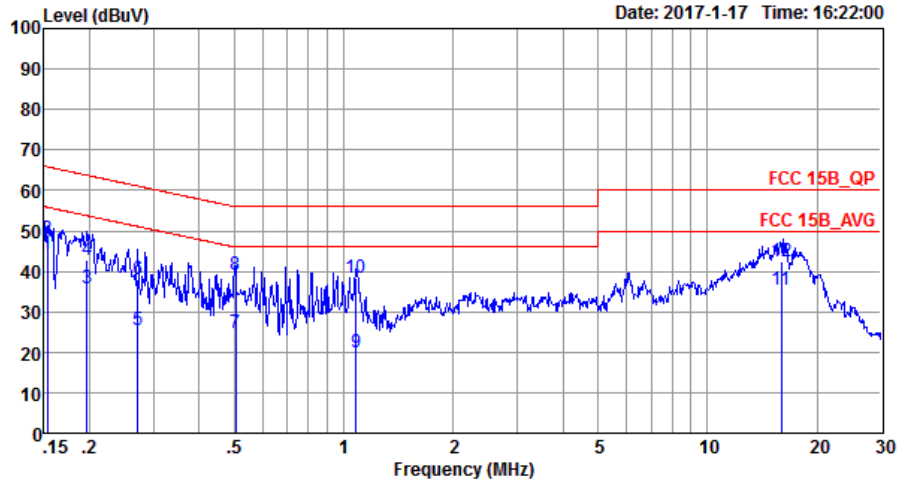


Site : CO01-SZ
 Condition: FCC 15B_QP LISN_20160509 LINE
 Project : (FC)710501-01
 Mode : Mode 1
 IMEI : 355630082221475/355630080021483

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.16	37.72	-17.97	55.69	26.99	0.14	10.59	Average
2	0.16	43.12	-22.57	65.69	32.39	0.14	10.59	QP
3	0.19	27.53	-26.40	53.93	16.91	0.11	10.51	Average
4	0.19	42.73	-21.20	63.93	32.11	0.11	10.51	QP
5	0.22	27.19	-25.69	52.88	16.60	0.11	10.48	Average
6	0.22	42.69	-20.19	62.88	32.10	0.11	10.48	QP
7	0.29	24.14	-26.49	50.63	13.60	0.11	10.43	Average
8	0.29	38.24	-22.39	60.63	27.70	0.11	10.43	QP
9	0.54	23.52	-22.48	46.00	13.20	0.11	10.21	Average
10	0.54	31.22	-24.78	56.00	20.90	0.11	10.21	QP
11	1.05	23.77	-22.23	46.00	13.50	0.11	10.16	Average
12	1.05	30.47	-25.53	56.00	20.20	0.11	10.16	QP
13 *	15.97	34.27	-15.73	50.00	23.50	0.31	10.46	Average
14	15.97	41.27	-18.73	60.00	30.50	0.31	10.46	QP



Test Mode :	Mode 1	Temperature :	21~23°C
Test Engineer :	Tao Cheng	Relative Humidity :	41~42%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	LTE Band 5 Idle + Bluetooth Idle + WLAN Idle + Battery + Earphone + USB Cable(Data Link with Notebook) + GPS Rx + SIM1 for Sample 1		



Site : CO01-SZ
 Condition: FCC 15B_QP LISN_20160509 NEUTRAL
 Project : (FC)710501-01
 Mode : Mode 1
 IMEI : 355630082221475/355630080021483

	Freq	Level	Over Limit	Limit	Read	LISN	Cable	Remark
	MHz	dBuV		dB	dBuV	Factor	Loss	
							dB	
1 *	0.15	44.33	-11.49	55.82	33.60	0.14	10.59	Average
2	0.15	48.03	-17.79	65.82	37.30	0.14	10.59	QP
3	0.20	35.82	-17.94	53.76	25.20	0.11	10.51	Average
4	0.20	42.82	-20.94	63.76	32.20	0.11	10.51	QP
5	0.27	25.55	-25.52	51.07	15.00	0.11	10.44	Average
6	0.27	37.85	-23.22	61.07	27.30	0.11	10.44	QP
7	0.50	24.63	-21.37	46.00	14.30	0.11	10.22	Average
8	0.50	39.13	-16.87	56.00	28.80	0.11	10.22	QP
9	1.08	19.87	-26.13	46.00	9.60	0.11	10.16	Average
10	1.08	38.47	-17.53	56.00	28.20	0.11	10.16	QP
11	15.97	35.47	-14.53	50.00	24.70	0.31	10.46	Average
12	15.97	42.47	-17.53	60.00	31.70	0.31	10.46	QP



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

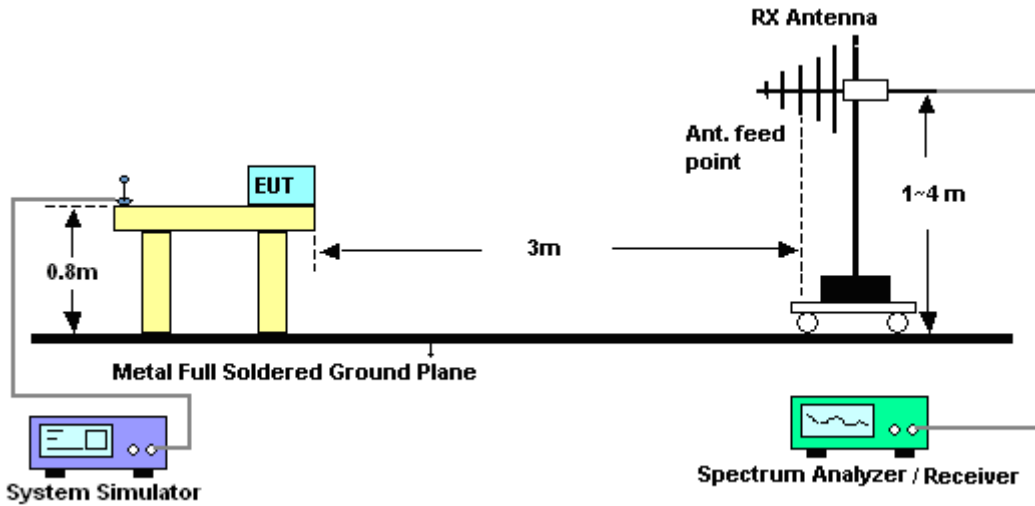
The measuring equipment is listed in the section 4 of this test report.

3.2.3. Test Procedures

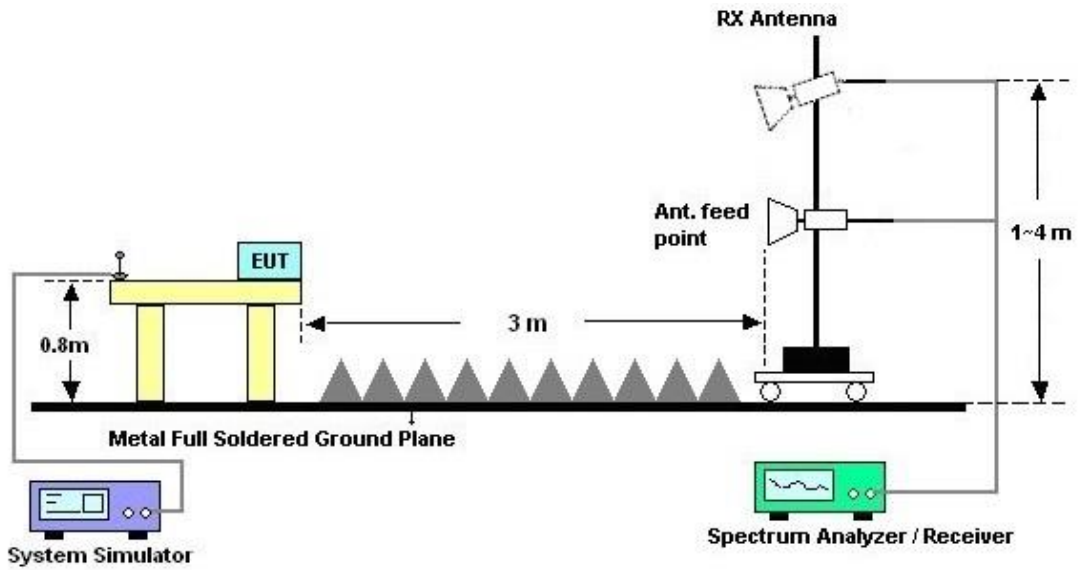
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna 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



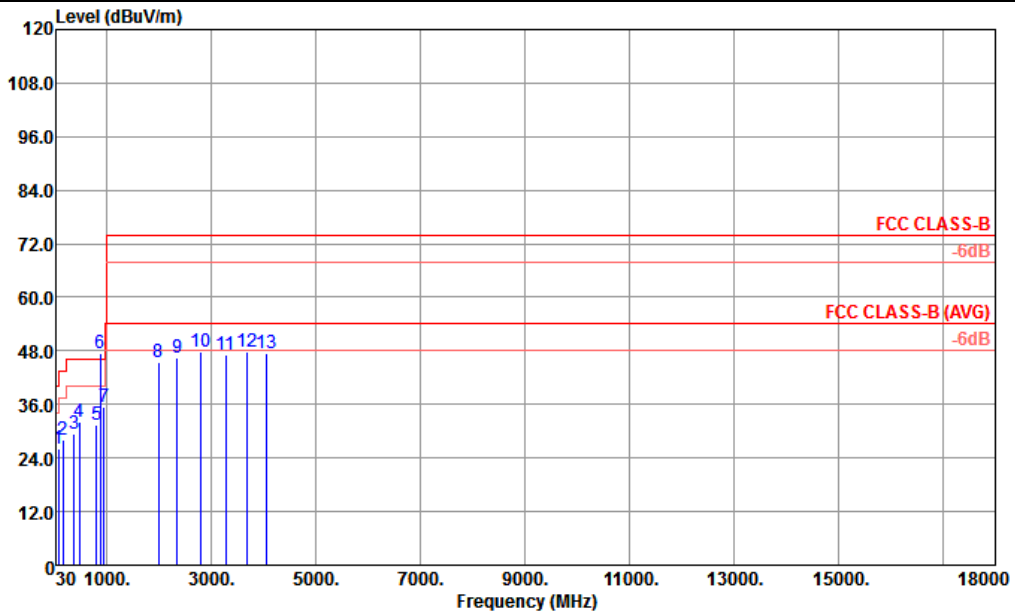
For radiated emissions above 1GHz





3.2.5. Test Result of Radiated Emission

Test Mode :	Mode 1	Temperature :	21~22°C
Test Engineer :	Leo Liao	Relative Humidity :	41~42%
Test Distance :	3m	Polarization :	Horizontal
Function Type :	LTE Band 5 Idle + Bluetooth Idle + WLAN Idle + Battery + Earphone + USB Cable(Data Link with Notebook) + GPS Rx + SIM1 for Sample 1		
Remark :	#6 is system simulator signal which can be ignored.		

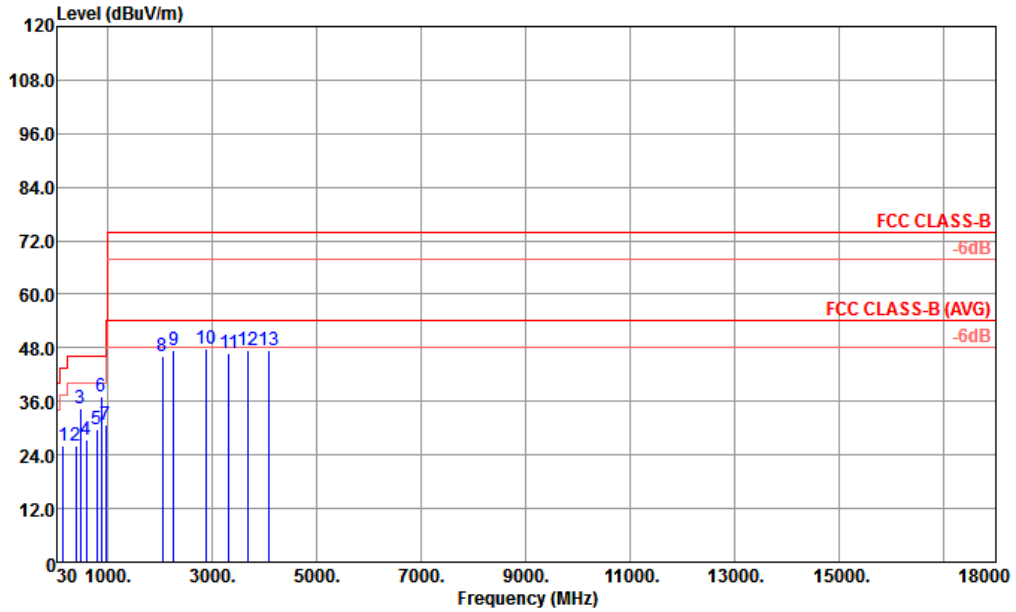


Site : 03CH02-KS
 Condition : FCC CLASS-B 3m 966-02 LF ANT HORIZONTAL
 Project : (FC) 710501-01
 Mode : 1
 IMEI : 355630080018414 355630080018422 #38

	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	83.35	25.98	-14.02	40.00	41.73	15.73	0.20	31.68	---	---	Peak
2	165.80	28.04	-15.46	43.50	42.22	16.91	0.35	31.44	---	---	Peak
3	373.38	29.45	-16.55	46.00	36.50	22.61	0.82	30.48	---	---	Peak
4	480.08	32.07	-13.93	46.00	37.48	23.37	0.92	29.70	---	---	Peak
5	805.03	31.35	-14.65	46.00	31.00	26.66	1.46	27.77	---	---	Peak
6 *	882.63	47.46			45.43	27.46	1.59	27.02	---	---	Peak
7	948.59	35.54	-10.46	46.00	31.96	28.37	1.71	26.50	100	0	Peak
8	1996.00	45.40	-28.60	74.00	45.16	30.50	4.46	34.72	---	---	Peak
9	2358.00	46.52	-27.48	74.00	43.03	31.36	5.62	33.49	---	---	Peak
10	2788.00	47.70	-26.30	74.00	41.02	32.06	2.71	28.09	---	---	Peak
11	3282.00	47.28	-26.72	74.00	38.81	33.51	6.01	31.05	---	---	Peak
12	3684.00	47.80	-26.20	74.00	38.54	34.23	6.29	31.26	---	---	Peak
13	4047.00	47.46	-26.54	74.00	38.14	34.91	6.17	31.76	---	---	Peak



Test Mode :	Mode 1	Temperature :	21~22°C
Test Engineer :	Leo Liao	Relative Humidity :	41~42%
Test Distance :	3m	Polarization :	Vertical
Function Type :	LTE Band 5 Idle + Bluetooth Idle + WLAN Idle + Battery + Earphone + USB Cable(Data Link with Notebook) + GPS Rx + SIM1 for Sample 1		
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) 710501-01
 Mode : 1
 IMEI : 355630080018414 355630080018422 #38

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	A/Pos	T/Pos	Remark
	MHz	dBUV/m	dB	dBUV/m	dBuV	dB/m	dB	cm	deg	
1	153.19	26.24	-17.26	43.50	39.96	17.46	0.33	31.51	---	Peak
2	398.60	26.20	-19.80	46.00	30.71	25.11	0.92	30.54	---	Peak
3	480.08	34.44	-11.56	46.00	39.85	23.37	0.92	29.70	100	Peak
4	595.51	27.44	-18.56	46.00	31.14	24.34	0.90	28.94	---	Peak
5	797.27	29.60	-16.40	46.00	29.40	26.58	1.46	27.84	---	Peak
6	881.66	37.18			35.17	27.45	1.59	27.03	---	Peak
7	959.90	30.89	-15.11	46.00	26.87	28.66	1.75	26.39	---	Peak
8	2052.00	46.07	-27.93	74.00	45.12	30.67	4.90	34.62	---	Peak
9	2268.00	47.44	-26.56	74.00	44.35	31.27	5.72	33.90	---	Peak
10	2888.00	47.66	-26.34	74.00	40.56	32.31	2.90	28.11	---	Peak
11	3324.00	46.80	-27.20	74.00	38.21	33.58	5.97	30.96	---	Peak
12	3693.00	47.43	-26.57	74.00	38.25	34.23	6.29	31.34	---	Peak
13	4083.00	47.51	-26.49	74.00	38.05	34.96	6.31	31.81	---	Peak



4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Jan. 06, 2017	Jan. 17, 2017	Jan. 05, 2018	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103892	9kHz~30MHz	Jan. 05, 2017	Jan. 17, 2017	Jan. 04, 2018	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	MessTec	3816/2SH	00103912	9kHz~30MHz	Jan. 05, 2017	Jan. 17, 2017	Jan. 04, 2018	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Jul. 16, 2016	Jan. 17, 2017	Jul. 15, 2017	Conduction (CO01-SZ)
Pulse Limiter	COM-POWER	LIT-153 Transient Limiter	53139	150kHz~30MHz	Oct. 11, 2016	Jan. 17, 2017	Oct. 10, 2017	Conduction (CO01-SZ)
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz; Max 30dBm	Aug. 09, 2016	Jan. 28, 2017	Aug. 08, 2017	Radiation (03CH02-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150208	10Hz~44GHz, MAX 30dB	Apr. 22, 2016	Jan. 28, 2017	Apr. 21, 2017	Radiation (03CH02-KS)
Bilog Antenna	TeseQ	CBL6112D	37879	30MHz~2GHz	Aug. 20, 2016	Jan. 28, 2017	Aug. 19, 2017	Radiation (03CH02-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Oct. 22, 2016	Jan. 28, 2017	Oct. 21, 2017	Radiation (03CH02-KS)
Amplifier	com-power	PA-103A	161069	1kHz~1000MHz / 32 dB	Apr. 22, 2016	Jan. 28, 2017	Apr. 21, 2017	Radiation (03CH02-KS)
Amplifier	Agilent	8449B	3008A02384	1-26.5GHz Gain 30dB	Oct. 13, 2016	Jan. 28, 2017	Oct. 12, 2017	Radiation (03CH02-KS)
AC Power Source	Chroma	61601	616010002473	N/A	NCR	Jan. 28, 2017	NCR	Radiation (03CH02-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Jan. 28, 2017	NCR	Radiation (03CH02-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Jan. 28, 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% ($U = 2Uc(y)$)	2.5dB
---	-------

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

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

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.5dB
---	-------