





# FCC EMI TEST REPORT

FCC ID	: IHDT56YC1
Equipment	: Mobile Cellular Phone
Brand Name	: Motorola
Model Name	: XT2010-1
Applicant	: Motorola Mobility LLC
	222 W, Merchandise Mart Plaza, Chicago IL 60654 USA
Manufacturer	: Motorola Mobility LLC
	222 W, Merchandise Mart Plaza, Chicago IL 60654 USA
Standard	: FCC 47 CFR FCC Part 15 Subpart B

The product was received on Apr. 26, 2019 and testing was started from May 20, 2019 and completed on Jun. 04, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, 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 report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

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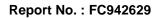
Approved by: Jones Tsai SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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# History of this test report

Report No.	Version	Description	Issued Date
FC942629	01	Initial issue of report	Jun. 06, 2019



# **Summary of Test Result**

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.107	AC Conducted Emission	Pass	Under limit 5.01 dB at 0.152 MHz
3.2	15.109	Radiated Emission	Pass	Under limit 6.10 dB at 532.460 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.

#### **Reviewed by: Louis Wu**

**Report Producer: Elise Chang** 



# 1. General Description

# **1.1. Product Feature of Equipment Under Test**

	Product Fe	eature	
Equipment	Mobile Cellula	r Phone	
Brand Name	Motorola		
Model Name	XT2010-1		
FCC ID	IHDT56YC1		
Sample 1	Single SIM		
Sample 2	Dual SIM		
	Conduction :	Sample 1	354156100005315
		Sample 2	354155100035371
IMEI Code			354155100035389
IMELCODE	Radiation :	Sample 1	354156100005315
		Sample 2	354155100034473
			354155100034481
	GSM/EGPRS/WCDMA/HSPA/LTE/GNSS/NFC/FM		
	WLAN 11b/g/n HT20		
EUT supports Radios application	WLAN 11a/n HT20/HT40		
	WLAN 11ac VHT20/VHT40/VHT80		
	Bluetooth BR/EDR/LE		
HW Version	DVT2A		
EUT Stage	Identical Proto	type	

**Remark:** The above EUT's information was declared by manufacturer.

TEL : 886-3-327-3456	Page Number	: 5 of 21
FAX : 886-3-328-4978	Issued Date	: Jun. 06, 2019
Report Template No.: BU5-FD15B Version 2.5	Report Version	: 01



	Acc	essory List
	Brand Name :	Motorola
AC Adapter 1 (US)	Model Name :	SC-51
	Manufacturer :	Salom
	Brand Name :	Motorola
AC Adapter 1 (EU)	Model Name :	SC-52
	Manufacturer :	Salom
	Brand Name :	Motorola
AC Adapter 1 (UK)	Model Name :	SC-53
	Manufacturer :	Salom
	Brand Name :	Motorola
AC Adapter 1 (AR)	Model Name :	SC-56
	Manufacturer :	Salom
	Brand Name :	Motorola
AC Adapter 1 (BR)	Model Name :	SC-57
	Manufacturer :	Salom
	Brand Name :	Motorola
AC Adapter 2 (US)	Model Name :	SC-51
	Manufacturer :	Chenyang
	Brand Name :	Motorola
AC Adapter 2 (EU)	Model Name :	SC-52
	Manufacturer :	Chenyang
	Brand Name :	Motorola
AC Adapter 2 (UK)	Model Name :	SC-53
	Manufacturer :	Chenyang
	Brand Name :	Motorola
AC Adapter 2 (AR)	Model Name :	SC-56
	Manufacturer :	Chenyang
	Brand Name :	Motorola
AC Adapter 3 (BR)	Model Name :	SC-57
	Manufacturer :	Flex
	Brand Name :	Motorola
AC Adapter 4 (BR)	Model Name :	SC-57
	Manufacturer :	Cliptech
Dettern: 1	Brand Name :	Motorola
Battery 1	Model Name :	KP50
	Manufacturer : Brand Name :	SCUD Matarala
Earphone 1	Brand Name : Model Name :	Motorola
Earphone 1	Model Name : Manufacturer :	SH38C37773
	Brand Name :	Lianyun Motorola
Earphone 2	Model Name :	SH38C44959
Earphone 2	Manufacturer :	Cosonic
	Brand Name :	Luxshare
USB Cable 1	Model Name :	SC18C24368
	Brand Name :	
USB Cable 2	Model Name :	Saibao SC18C24367
	woder Name :	3010024307



# **1.2.** Product Specification of Equipment Under Test

Stan	dards-related Product Specification
	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
	WCDMA Band IV: 1712.4 MHz ~ 1752.6 MHz
	LTE Band 2 : 1850.7 MHz ~ 1909.3 MHz
	LTE Band 4 : 1710.7 MHz ~ 1754.3 MHz
	LTE Band 5 : 824.7 MHz ~ 848.3 MHz
	LTE Band 7 : 2502.5 MHz ~ 2567.5 MHz
Tx Frequency	LTE Band 12 : 699.7 MHz ~ 715.3 MHz
	LTE Band 17: 706.5 MHz ~ 713.5 MHz
	LTE Band 41: 2498.5 MHz ~ 2687.5 MHz
	LTE Band 66: 1710.7 MHz ~ 1779.3 MHz
	802.11b/g/n: 2412 MHz ~ 2462 MHz
	802.11a/n/ac: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz;
	5500 MHz ~ 5700 MHz ; 5725 MHz ~ 5850 MHz
	Bluetooth: 2402 MHz ~ 2480 MHz
	NFC : 13.56 MHz
	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
	WCDMA Band IV: 2112.4 MHz ~ 2152.6 MHz
	LTE Band 2 : 1930.7 MHz ~ 1989.3 MHz
	LTE Band 4 : 2110.7 MHz ~ 2154.3 MHz
	LTE Band 5 : 869.7 MHz ~ 893.3 MHz
	LTE Band 7 : 2622.5 MHz ~ 2687.5 MHz
	LTE Band 12 : 729.7 MHz ~ 745.3 MHz
Rx Frequency	LTE Band 17: 736.5 MHz ~ 743.5 MHz
	LTE Band 41: 2498.5 MHz ~ 2687.5 MHz
	LTE Band 66: 2110.7 MHz ~ 2199.3 MHz
	802.11b/g/n: 2412 MHz ~ 2462 MHz
	802.11a/n/ac: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5700 MHz ; 5725 MHz ~ 5850 MHz
	Bluetooth: 2402 MHz ~ 2480 MHz
	GNSS : 1559 MHz ~ 1610 MHz
	(GPS/Glonass)
	NFC : 13.56 MHz
	FM : 88 MHz ~ 108 MHz
	WWAN : Dipole Antenna
	WLAN : Loop Antenna
	Bluetooth : Loop Antenna
Antenna Type	NFC : Loop Antenna
	GPS/Glonass : Loop Antenna
	FM : Using earphone as antenna



Standards-related Product Specification			
Type of Modulation	GSM: GMSK GPRS: GMSK EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK WCDMA: QPSK (Uplink) HSDPA: 64QAM (Downlink) HSUPA: QPSK (Uplink) LTE: QPSK / 16QAM / 64QAM 802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11a/g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM /256QAM) Bluetooth LE : GFSK Bluetooth (1Mbps) : GFSK Bluetooth (1Mbps) : $\pi$ /4-DQPSK Bluetooth (3Mbps) : 8-DPSK GNSS : BPSK NFC: ASK FM		

Note: The WLAN operation in 5600 MHz ~ 5650 MHz is notched.

### **1.3. Modification of EUT**

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

### 1.4. Test Location

Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978	
Test Site No.	Sporton Site No.	
	CO05-HY	
Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location         No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)           TEL: +886-3-327-0868           FAX: +886-3-327-0855		
Test Site Location	Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868	

FCC Designation No. TW1093 and TW1098



### 1.5. 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:** 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).

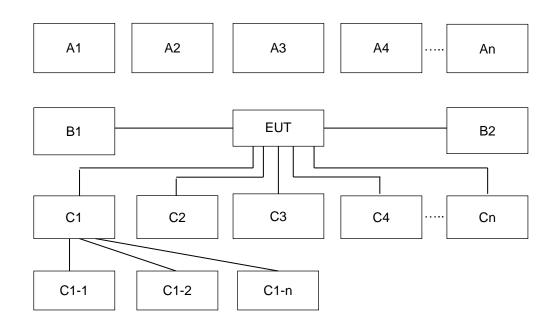
Test Items		Function Type
	Mode 1:	GSM850 Low Channel Idle + Bluetooth Idle + WLAN Idle + MPEG4 + Battery + Earphone 1 + USB Cable 1 (Charging from AC Adapter 1 (Salom_US)) for Sample 1
	Mode 2:	GSM850 Middle Channel Idle + Bluetooth Idle + WLAN Idle + NFC On + Battery + Earphone 2 + USB Cable 2 (Charging from AC Adapter 2 (Chenyang_US)) for Sample 1
	Mode 3:	GSM850 High Channel Idle + Bluetooth Idle + WLAN Idle + Camera (Front) + Battery + Earphone 1 + USB Cable 1 (Charging from AC Adapter 3 (Flex_BR)) for Sample 1
	Mode 4:	LTE Band 12 Low Channel Idle + Bluetooth Idle + WLAN Idle + Camera (Back) + Battery + Earphone 2 + USB Cable 2 (Charging from AC Adapter 4 (Cliptech_BR)) for Sample 1
AC Conducted	Mode 5:	LTE Band 12 Middle Channel Idle + Bluetooth Idle + WLAN Idle + GPS Rx + Battery + Earphone 1 + USB Cable 1 (Charging from AC Adapter 2 (Chenyang_US)) for Sample 1
Emission	Mode 6:	LTE Band 12 High Channel Idle + Bluetooth Idle + WLAN Idle + FM 88MHz Rx + Battery + Earphone 2 + USB Cable 2 (Charging from AC Adapter 2 (Chenyang_US)) for Sample 1
	Mode 7:	GSM1900 Middle Channel Idle + Bluetooth Idle + WLAN Idle + FM 98MHz Rx + Battery + Earphone 1 + USB Cable 1 (Data Link with Notebook) for Sample 1
	Mode 8:	LTE Band 7 Middle Channel Idle + Bluetooth Idle + WLAN Idle + FM 108MHz Rx + Battery + Earphone 2 + USB Cable 2 (Data Link with Notebook) for Sample 1
	Mode 9:	LTE Band 12 Low Channel Idle + Bluetooth Idle + WLAN Idle + Camera (Back) + Battery + Earphone 2 + USB Cable 2 (Charging from AC Adapter 4 (Cliptech_BR)) + SIM 1 for Sample 2
	Mode 10:	LTE Band 12 Low Channel Idle + Bluetooth Idle + WLAN Idle + Camera (Back) + Battery + Earphone 2 + USB Cable 2 (Charging from AC Adapter 4 (Cliptech_BR)) + SIM 2 for Sample 2



Test Items	Function Type		
	Mode 1:	GSM850 Low Channel Idle + Bluetooth Idle + WLAN Idle + MPEG4 + Battery + Earphone 1 + USB Cable 1 (Charging from AC Adapter 1 (Salom_US)) for Sample 1	
	Mode 2:	GSM850 Middle Channel Idle + Bluetooth Idle + WLAN Idle + NFC On + Battery + Earphone 2 + USB Cable 2 (Charging from AC Adapter 2 (Chenyang_US)) for Sample 1	
	Mode 3:	GSM850 High Channel Idle + Bluetooth Idle + WLAN Idle + Camera (Front) + Battery + Earphone 1 + USB Cable 1 (Charging from AC Adapter 3 (Flex_BR)) for Sample 1	
	Mode 4:	LTE Band 12 Low Channel Idle + Bluetooth Idle + WLAN Idle + Camera (Back) + Battery + Earphone 2 + USB Cable 2 (Charging from AC Adapter 4 (Cliptech_BR)) for Sample 1	
Radiated	Mode 5:	LTE Band 12 Middle Channel Idle + Bluetooth Idle + WLAN Idle + GPS Rx + Battery + Earphone 1 + USB Cable 1 (Charging from AC Adapter 1 (Salom_US)) for Sample 1	
Emissions	Mode 6:	LTE Band 12 High Channel Idle + Bluetooth Idle + WLAN Idle + FM 88MHz Rx + Battery + Earphone 2 + USB Cable 2 (Charging from AC Adapter 1 (Salom_US)) for Sample 1	
	Mode 7:	GSM1900 Middle Channel Idle + Bluetooth Idle + WLAN Idle + FM 98MHz Rx + Battery + Earphone 1 + USB Cable 1 (Data Link with Notebook) for Sample 1	
	Mode 8:	LTE Band 7 Middle Channel Idle + Bluetooth Idle + WLAN Idle + FM 108MHz Rx + Battery + Earphone 2 + USB Cable 2 (Data Link with Notebook) for Sample 1	
	Mode 9:	GSM1900 Middle Channel Idle + Bluetooth Idle + WLAN Idle + FM 98MHz Rx + Battery + Earphone 1 + USB Cable 1 (Data Link with Notebook) + SIM 1 for Sample 2	
	Mode 10:	GSM1900 Middle Channel Idle + Bluetooth Idle + WLAN Idle + FM 98MHz Rx + Battery + Earphone 1 + USB Cable 1 (Data Link with Notebook) + SIM 2 for Sample 2	
Remark:			
		is mode 4; only the test data of this mode was reported.	
		is mode 10; only the test data of this mode was reported.	
<ol> <li>Data Link Notebook</li> </ol>		ebook means data application transferred mode between EUT and	



# 2.2. Connection Diagram of Test System



		Radiation Test Setu	р						
No	Wireless Station	Connection Turne			Те	st Mo	de		
No.	wireless Station	Connection Type	1	2	3	4	5	6	7
A1	Bluetooth Earphone	Bluetooth	Х	Х	Х	Х	Х	Х	Х
A2	System Simulator	GSM/UMTS/CDMA/ WCDMA/LTE	Х	х	х	х	х	х	х
A3	GPS Station	GPS					Х		
A4	AP Router	WiFi	Х	Х	Х	Х	Х	Х	Х
No.	Power Source	Connection Type	1	2	3	4	5	6	7
B1	AC : 120V/60Hz	AC Power Cable	Х	Х	Х	Х	Х	Х	
No.	Setup Peripherals	Connection Type	1	2	3	4	5	6	7
C1	Notebook	USB cable							Х
C1-1	AP Router	HDMI cable to C1							Х
C1-2	IPod	USB Cable to C1							Х
C2	Earphone	Earphone Jack	Х	Х	Х	Х	Х	Х	Х
C3	SD card	SD I/O interface without cable	х	х	х	х	х	х	х



		Radiation Test Setu	р						
No.	Wireless Station	Connection Type			Те	st Mo	de		
NO.	Wireless Station	Connection Type	8	9	10	-	-	-	-
A1	Bluetooth Earphone	Bluetooth	Х	Х	Х				
A2	System Simulator	GSM/UMTS/CDMA/ WCDMA/LTE	х	х	х				
A3	GPS Station	GPS							
A4	AP Router	WiFi	Х	Х	Х				
No.	Power Source	Connection Type	8	9	10	-	-	-	-
B1	AC : 120V/60Hz	AC Power Cable							
No.	Setup Peripherals	Connection Type	8	9	10	-	-	-	-
C1	Notebook	USB cable	Х	Х	Х				
C1-1	AP Router	RJ45 cable to C1	Х	Х	Х				
C1-2	IPod	USB Cable to C1	Х	Х	Х				
C2	Earphone	Earphone Jack	Х	Х	Х				
C3	SD card	SD I/O interface without cable	х	х					

		Conduction Test Set	up						
No.	Wireless Station	Connection Type			Те	st Mo	de		
NO.	wireless Station	Connection Type	1	2	3	4	5	6	7
A1	Bluetooth Earphone	Bluetooth	Х	Х	Х	Х	Х	Х	Х
A2	System Simulator	GSM/UMTS/CDMA/ WCDMA/LTE	х	х	х	х	х	х	х
A3	GPS Station	GPS					Х		
A4	AP router	WiFi	Х	Х	Х	Х	Х	Х	Х
No.	Power Source	Connection Type	1	2	3	4	5	6	7
B1	AC : 120V/60Hz	AC Power Cable	Х	Х	Х	Х	Х	Х	
No.	Setup Peripherals	Connection Type	1	2	3	4	5	6	7
C1	Notebook	USB Cable							Х
C1-1	IPod	USB Cable to C1							Х
C1-2	AP router	RJ-45 Cable to C1							Х
C2	Earphone	Earphone Jack	Х	Х	Х	Х	Х	Х	Х
C3	SD Card	SD I/O interface without Cable	х	х	х	х	х	х	х



		Conduction Test Set	up						
No	Wireless Station	Connection Turne			Те	st Mo	de		
No.	wireless Station	Connection Type	8	9	10	-	-	-	-
A1	Bluetooth Earphone	Bluetooth	Х	Х	Х				
A2	System Simulator	GSM/UMTS/CDMA/ WCDMA/LTE	Х	х	x				
A3	GPS Station	GPS							
A4	AP router	WiFi	Х	Х	Х				
No.	Power Source	Connection Type	8	9	10	-	-	-	-
B1	AC : 120V/60Hz	AC Power Cable		Х	Х				
No.	Setup Peripherals	Connection Type	8	9	10	-	-	-	-
C1	Notebook	USB Cable	Х						
C1-1	IPod	USB Cable to C1	Х						
C1-2	AP Router	RJ-45 Cable to C1	Х						
C2	Earphone	Earphone Jack	Х	Х	Х				
C3	SD Card	SD I/O interface without Cable	Х	х					

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

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
3.	GPS Station	Pendulum	GSG-54	N/A	N/A	Unshielded, 1.8 m
4.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
5.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
6.	Notebook	DELL	Latitude E6320	FCC DoC/ Contains FCC ID: QDS-BRCM1054	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
7.	iPod	Apple	A1199	FCC DoC	Unshielded, 1.2 m	N/A
8.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0 m	N/A
9.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A



### 2.4. EUT Operation Test Setup

The EUT was in GSM or LTE idle mode during the testing. The EUT was synchronized with the BCCH, and had been continuous receiving mode by setting paging reorganization of the system simulator.

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 Laptop and EUT via USB cable.
- 2. Execute "GPS Test" to make the EUT receive continuous signals from GPS station.
- 3. Execute "Video Player" to play MPEG4 files.
- 4. Turn on camera to capture images.
- 5. Turn on FM function.
- 6. Turn on NFC function.



### 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	Conducted	limit (dBuV)
(MHz)	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

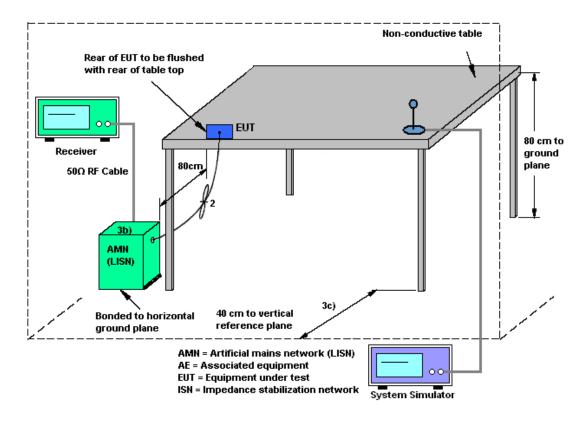
Refer a test equipment and calibration data table in this test report.

#### 3.1.3 Test Procedure

- 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.
- 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

Please refer to Appendix A.



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

#### 3.2.2. Measuring Instruments

Refer a test equipment and calibration data table in this test report.

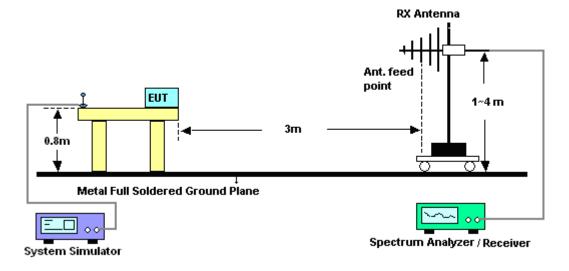
#### 3.2.3. Test Procedures

- 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 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.
- 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

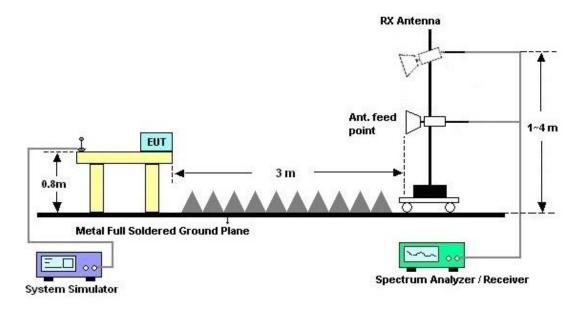


#### 3.2.4. Test Setup of Radiated Emission

#### For radiated emissions from 30MHz to 1GHz



#### For radiated emissions above 1GHz



#### 3.2.5. Test Result of Radiated Emission

Please refer to Appendix B.



#### List of Measuring Equipment 4.

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	May 20, 2019~ May 27, 2019	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9KHz~3.6GHz	Nov. 12, 2018	May 20, 2019~ May 27, 2019	Nov. 11, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 14, 2018	May 20, 2019~ May 27, 2019	Nov. 13, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 09, 2018	May 20, 2019~ May 27, 2019	Nov. 08, 2019	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	May 20, 2019~ May 27, 2019	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Dec. 31, 2018	May 20, 2019~ May 27, 2019	Dec. 30, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Dec. 31, 2018	May 20, 2019~ May 27, 2019	Dec. 30, 2019	Conduction (CO05-HY)
Amplifier	SONOMA	310N	187311	9kHz~1GHz	Oct. 23, 2018	Jun. 04, 2019	Oct. 22, 2019	Radiation (03CH10-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800 N1D01N-06	35413&02	30MHz~1GHz	Feb. 12, 2019	Jun. 04, 2019	Feb. 11, 2020	Radiation (03CH10-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1325	1GHz ~ 18GHz	Oct. 02, 2018	Jun. 04, 2019	Oct. 01, 2019	Radiation (03CH10-HY)
Preamplifier	Jet-Power	JAP00101800- 30-10P	16011855000 4	1GHz~18GHz	Apr. 16, 2019	Jun. 04, 2019	Apr. 15, 2020	Radiation (03CH10-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200485	10Hz ~ 44GHz	Nov. 02, 2018	Jun. 04, 2019	Nov. 01, 2019	Radiation (03CH10-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Jun. 04, 2019	N/A	Radiation (03CH10-HY)
Turn Table	EMEC	TT 2200	N/A	0~360 Degree	N/A	Jun. 04, 2019	N/A	Radiation (03CH10-HY)
Software	Audix	E3 6.2009-8-24	RK-001042	N/A	N/A	Jun. 04, 2019	N/A	Radiation (03CH10-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	20Hz ~ 8.4GHz	Nov. 01, 2018	Jun. 04, 2019	Oct. 31, 2019	Radiation (03CH10-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104 / 102	MY11692/4P E,MY11693/4 PE,MY2855/2	30M-1G	Nov. 08, 2018	Jun. 04, 2019	Nov. 07, 2019	Radiation (03CH10-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104 / 102	MY11692/4P E,MY11693/4 PE,MY2855/2	1G-18G	Nov. 08, 2018	Jun. 04, 2019	Nov. 07, 2019	Radiation (03CH10-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30M~18GHz	Oct. 16, 2018	Jun. 04, 2019	Oct. 15, 2019	Radiation (03CH10-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30M~18GHz	Oct. 16, 2018	Jun. 04, 2019	Oct. 15, 2019	Radiation (03CH10-HY)
Base Station	Anritsu	MT8820C	6201432817	GSM / GPRS /WCDMA / LTE FDD/TDD with 44)	Dec. 12, 2018	Jun. 04, 2019	Dec. 11, 2020	Radiation (03CH10-HY)

: Jun. 06, 2019



# 5. Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence	2.20
of 95% (U = 2Uc(y))	2.20

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

Measuring Uncertainty for a Level of Confidence	5.60
of 95% (U = 2Uc(y))	5.66

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

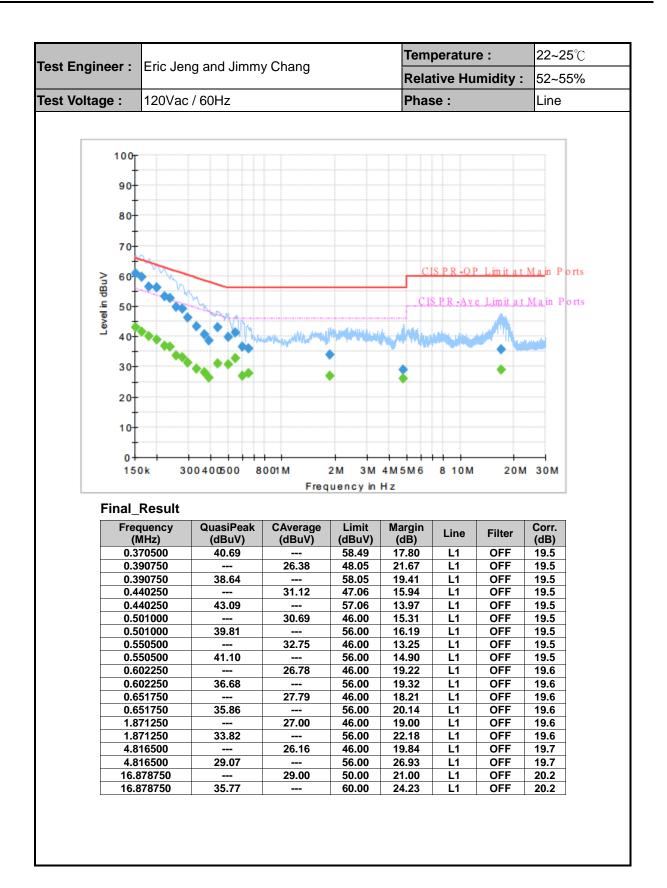
Measuring Uncertainty for a Level of Confidence	5.90
of 95% (U = 2Uc(y))	5.90



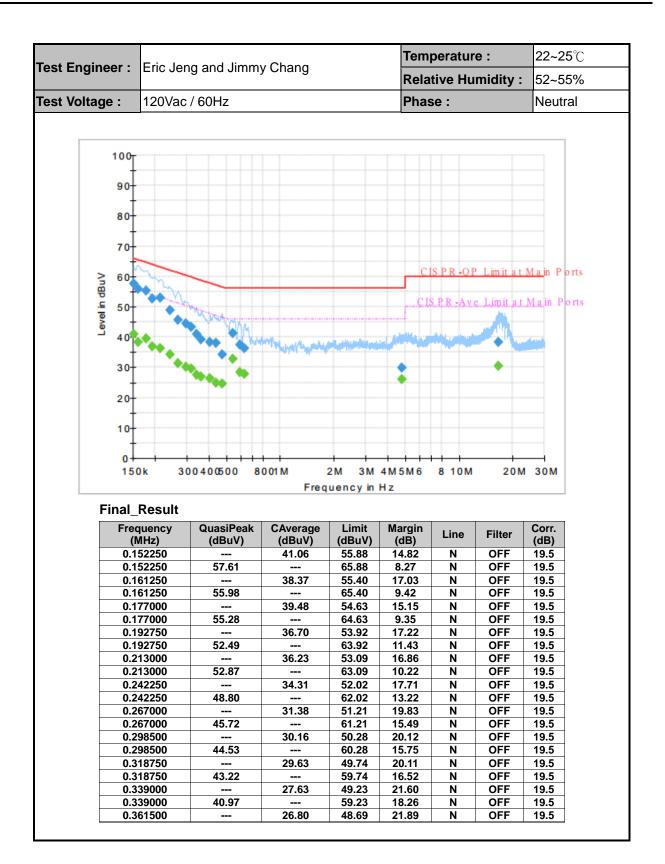
# Appendix A. AC Conducted Emission Test Results

oct Engineer	Eric Ico	a and limm	Chana		Tem	peratur	e :	<b>22~25</b> °C
est Engineer :	l⊏ric Jen	ng and Jimm	y Chang		Rela	tive Hu	midity :	52~55%
est Voltage :	120Vac	/ 60Hz			Phas	se :		Line
100								
90-								
80	,							
+	,					D		
70								
≥ 60	MW.				CI	IS P R -OF	Limit at	Main Ports
2 60 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								
.= 50-					Ç1	<u>S.P.RAv</u>	: Limit at	t <u>Ma</u> in Ports
e e								
- 40			MAR WALLAND		No. Al Way			
†							•	
30							•	
20-								
20								
10								
+								
o+			1 1	1 1				
				+ +	+ + +			
15	0k 30	00400500 8			4M5M6	8 10M	201	M 30M
		00400500 8		2M 3M uencyin		8 10M	201	 И 30М
Final_	Result		Freq	uency in	Hz	8 10M	201	
Final_ Free	Result	QuasiPeak	Fre q CAverage	uency in Limit	H z Margin	8 10M	20M Filter	Corr.
Final_ Free (I	Result		Freq	uency in	Hz			
Final_ [ [ 0.1 0.1	Result quency MHz) 52250 52250	QuasiPeak (dBuV)  60.87	Freq (dBuV) 42.99	Limit (dBuV) 55.88 65.88	H z Margin (dB) 12.89 5.01	Line L1 L1	Filter OFF OFF	Corr. (dB) 19.5 19.5
Final_ Free (( 0.1 0.1 0.1	Result quency MHz) 52250 52250 63500	QuasiPeak (dBuV)  60.87 	Freq (dBuV) 42.99  41.66	Limit (dBuV) 55.88 65.88 55.28	H z Margin (dB) 12.89 5.01 13.62	Line L1 L1 L1	Filter OFF OFF OFF	Corr. (dB) 19.5 19.5 19.5
Final_ Free (( 0.1 0.1 0.1 0.1	Result quency MHz) 52250 52250 63500 63500	QuasiPeak (dBuV)  60.87  59.62	Freq (dBuV) 42.99  41.66 	Limit (dBuV) 55.88 65.88 55.28 65.28	H z Margin (dB) 12.89 5.01 13.62 5.66	Line L1 L1 L1 L1 L1	Filter OFF OFF OFF	Corr. (dB) 19.5 19.5 19.5 19.5
Final_ Free (( 0.1 0.1 0.1 0.1 0.1 0.1	Result quency MHz) 52250 52250 63500 63500 79250	QuasiPeak (dBuV)  60.87  59.62 	Freq (dBuV) 42.99  41.66	Limit (dBuV) 55.88 65.88 55.28 65.28 65.28 54.52	H z Margin (dB) 12.89 5.01 13.62 5.66 14.47	Line L1 L1 L1 L1 L1 L1	Filter OFF OFF OFF OFF	Corr. (dB) 19.5 19.5 19.5 19.5 19.5
Final_ Free (( 0.1 0.1 0.1 0.1 0.1 0.1 0.1	Result quency MHz) 52250 52250 63500 63500	QuasiPeak (dBuV)  60.87  59.62	Freq (dBuV) 42.99  41.66  40.05	Limit (dBuV) 55.88 65.88 55.28 65.28	H z Margin (dB) 12.89 5.01 13.62 5.66	Line L1 L1 L1 L1 L1	Filter OFF OFF OFF	Corr. (dB) 19.5 19.5 19.5 19.5
Final_ Free (( 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	Result quency MHz) 52250 53500 63500 63500 79250 79250 99500 99500	QuasiPeak (dBuV)  60.87  59.62 	Freq (dBuV) 42.99  41.66  40.05  38.96 	Limit (dBuV) 55.88 65.28 65.28 54.52 64.52 53.63 63.63	H z Margin (dB) 12.89 5.01 13.62 5.66 14.47 8.02 14.67 7.61	Line L1 L1 L1 L1 L1 L1 L1	Filter OFF OFF OFF OFF OFF OFF	Corr. (dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5
Final_ Free (( 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	Result quency MHz) 52250 52250 63500 63500 79250 79250 99500 99500 19750	QuasiPeak (dBuV)  60.87  59.62  56.50  56.02 	Freq (dBuV) 42.99  41.66  40.05  38.96  36.86	Limit (dBuV) 55.88 65.28 65.28 65.28 54.52 64.52 53.63 63.63 52.83	H z Margin (dB) 12.89 5.01 13.62 5.66 14.47 8.02 14.67 7.61 15.97	Line L1 L1 L1 L1 L1 L1 L1 L1 L1 L1	Filter OFF OFF OFF OFF OFF OFF OFF	Corr. (dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5
Final	Result quency MHz) 52250 52250 63500 63500 79250 79250 99500 99500 19750	QuasiPeak (dBuV)  60.87  59.62  56.50  56.02  53.10	Freq (dBuV) 42.99  41.66  40.05  38.96  36.86 	Limit (dBuV) 55.88 65.28 65.28 65.28 64.52 64.52 64.52 53.63 63.63 52.83 62.83	H z Margin (dB) 12.89 5.01 13.62 5.66 14.47 8.02 14.67 7.61 15.97 9.73	Line L1 L1 L1 L1 L1 L1 L1 L1 L1 L1	Filter OFF OFF OFF OFF OFF OFF OFF OFF	Corr. (dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5
Final	Result quency MHz) 52250 52250 63500 63500 79250 79250 99500 99500 19750 19750 37750	QuasiPeak (dBuV)  60.87  59.62  56.50  56.02  53.10 	Freq (dBuV) 42.99  41.66  40.05  38.96  36.86  36.45	Limit (dBuV) 55.88 65.88 55.28 65.28 54.52 64.52 53.63 63.63 52.83 62.83 52.17	H z Margin (dB) 12.89 5.01 13.62 5.66 14.47 8.02 14.67 7.61 15.97 9.73 15.72	Line L1 L1 L1 L1 L1 L1 L1 L1 L1 L1	Filter OFF OFF OFF OFF OFF OFF OFF OFF	Corr. (dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5
Final	Result quency MHz) 52250 52250 63500 63500 79250 79250 99500 99500 19750 19750 37750	QuasiPeak (dBuV)  60.87  59.62  56.50  56.02  53.10  52.71	Freq (dBuV) 42.99  41.66  38.96  36.86  36.45 	Limit (dBuV) 55.88 65.88 55.28 65.28 54.52 64.52 53.63 63.63 52.83 62.83 52.17 62.17	H z Margin (dB) 12.89 5.01 13.62 5.66 14.47 8.02 14.67 7.61 15.97 9.73 15.72 9.46	Line L1 L1 L1 L1 L1 L1 L1 L1 L1 L1	Filter OFF OFF OFF OFF OFF OFF OFF OFF OFF	Corr. (dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5
Final	Result quency MHz) 52250 52250 63500 63500 79250 79250 99500 99500 99500 19750 19750 37750 37750 55750	QuasiPeak (dBuV)  60.87  59.62  56.50  56.02  53.10  52.71 	Freq (dBuV) 42.99  41.66  38.96  36.86  36.45  33.75	Limit (dBuV) 55.88 65.28 65.28 65.28 54.52 64.52 53.63 63.63 52.83 62.83 52.17 62.17 51.57	H z Margin (dB) 12.89 5.01 13.62 5.66 14.47 8.02 14.67 7.61 15.97 9.73 15.72 9.46 17.82	Line L1 L1 L1 L1 L1 L1 L1 L1 L1 L1	Filter OFF OFF OFF OFF OFF OFF OFF OFF OFF OF	Corr. (dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5
Final_ (( 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	Result quency MHz) 52250 52250 63500 63500 79250 79250 99500 99500 19750 19750 37750 37750 37750 55750	QuasiPeak (dBuV)  60.87  59.62  56.50  55.02  53.10  52.71  49.77	Freq (dBuV) 42.99  41.66  38.96  36.86  36.45  33.75 	Limit (dBuV) 55.88 65.88 55.28 64.52 64.52 53.63 63.63 52.83 62.83 52.17 62.17 51.57 61.57	H z Margin (dB) 12.89 5.01 13.62 5.66 14.47 8.02 14.67 7.61 15.97 9.73 15.72 9.46 17.82 11.80	Line L1 L1 L1 L1 L1 L1 L1 L1 L1 L1	Filter OFF OFF OFF OFF OFF OFF OFF OFF OFF OF	Corr. (dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5
Final_ Free (1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.	Result quency MHz) 52250 52250 63500 63500 79250 79250 99500 99500 99500 19750 19750 37750 37750 55750	QuasiPeak (dBuV)  60.87  59.62  56.50  56.02  53.10  52.71 	Freq (dBuV) 42.99  41.66  38.96  36.86  36.45  33.75	Limit (dBuV) 55.88 65.28 65.28 65.28 54.52 64.52 53.63 63.63 52.83 62.83 52.17 62.17 51.57	H z Margin (dB) 12.89 5.01 13.62 5.66 14.47 8.02 14.67 7.61 15.97 9.73 15.72 9.46 17.82	Line L1 L1 L1 L1 L1 L1 L1 L1 L1 L1	Filter OFF OFF OFF OFF OFF OFF OFF OFF OFF OF	Corr. (dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5
Final_ (1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.	Result quency MHz) 52250 52250 63500 63500 79250 79250 99500 99500 19750 19750 37750 37750 37750 55750 55750 78250 78250 98500	QuasiPeak (dBuV)  60.87  59.62  56.50  55.02  53.10  52.71  49.77 	Freq (dBuV) 42.99  41.66  38.96  36.86  36.45  33.75  33.13	Limit (dBuV) 55.88 65.88 55.28 65.28 54.52 64.52 53.63 63.63 52.83 62.83 52.17 62.17 51.57 61.57 50.87 60.87 50.28	H z Margin (dB) 12.89 5.01 13.62 5.66 14.47 8.02 14.67 7.61 15.97 9.73 15.72 9.46 17.82 11.80 17.74 11.67 19.12	Line L1 L1 L1 L1 L1 L1 L1 L1 L1 L1	Filter OFF OFF OFF OFF OFF OFF OFF OFF OFF OF	Corr. (dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5
Final_ (( 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	Result quency MHz) 52250 52250 63500 63500 79250 79250 99500 99500 19750 19750 37750 37750 37750 55750 55750 78250 78250 98500	QuasiPeak (dBuV)  60.87  59.62  56.50  55.70  53.10  52.71  49.77  49.20  46.26	Freq (dBuV) 42.99  41.66  38.96  36.86  36.45  33.75  33.13  31.16 	Limit (dBuV) 55.88 65.88 55.28 65.28 54.52 64.52 53.63 63.63 52.83 62.83 52.17 62.17 51.57 61.57 50.87 60.87 50.28 60.28	H z Margin (dB) 12.89 5.01 13.62 5.66 14.47 8.02 14.67 7.61 15.97 9.73 15.72 9.46 17.82 11.80 17.74 11.67 19.12 14.02	Line L1 L1 L1 L1 L1 L1 L1 L1 L1 L1	Filter OFF OFF OFF OFF OFF OFF OFF OFF OFF OF	Corr. (dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5
Final_ Free (( 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	Result quency MHz) 52250 52250 63500 63500 79250 79250 99500 99500 19750 19750 37750 55750 55750 78250 78250 78250 98500 98500 934500	QuasiPeak (dBuV)  60.87  59.62  56.02  53.10  52.71  49.77  49.20  46.26 	Freq (dBuV) 42.99  41.66  38.96  36.86  36.45  33.75  33.13  31.16  29.12	Limit (dBuV) 55.88 65.88 55.28 65.28 54.52 64.52 53.63 63.63 52.83 62.83 62.83 52.17 62.17 51.57 61.57 50.28 60.87 50.28 60.28 49.34	H z Margin (dB) 12.89 5.01 13.62 5.66 14.47 8.02 14.67 7.61 15.97 9.73 15.72 9.46 17.82 11.80 17.74 11.67 19.12 14.02 20.22	Line L1 L1 L1 L1 L1 L1 L1 L1 L1 L1	Filter OFF OFF OFF OFF OFF OFF OFF OFF OFF OF	Corr. (dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5
Final_ Free (( 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	Result quency MHz) 52250 52250 63500 63500 79250 79250 99500 99500 19750 19750 37750 37750 37750 55750 55750 78250 78250 98500	QuasiPeak (dBuV)  60.87  59.62  56.50  55.70  53.10  52.71  49.77  49.20  46.26	Freq (dBuV) 42.99  41.66  38.96  36.86  36.45  33.75  33.13  31.16 	Limit (dBuV) 55.88 65.88 55.28 65.28 54.52 64.52 53.63 63.63 52.83 62.83 52.17 62.17 51.57 61.57 50.87 60.87 50.28 60.28	H z Margin (dB) 12.89 5.01 13.62 5.66 14.47 8.02 14.67 7.61 15.97 9.73 15.72 9.46 17.82 11.80 17.74 11.67 19.12 14.02	Line L1 L1 L1 L1 L1 L1 L1 L1 L1 L1	Filter OFF OFF OFF OFF OFF OFF OFF OFF OFF OF	Corr. (dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5

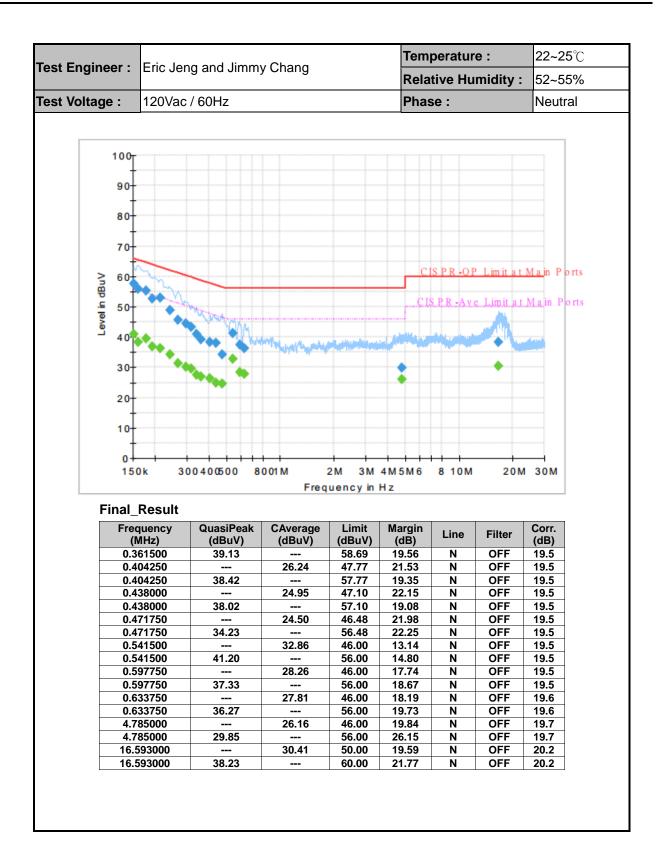










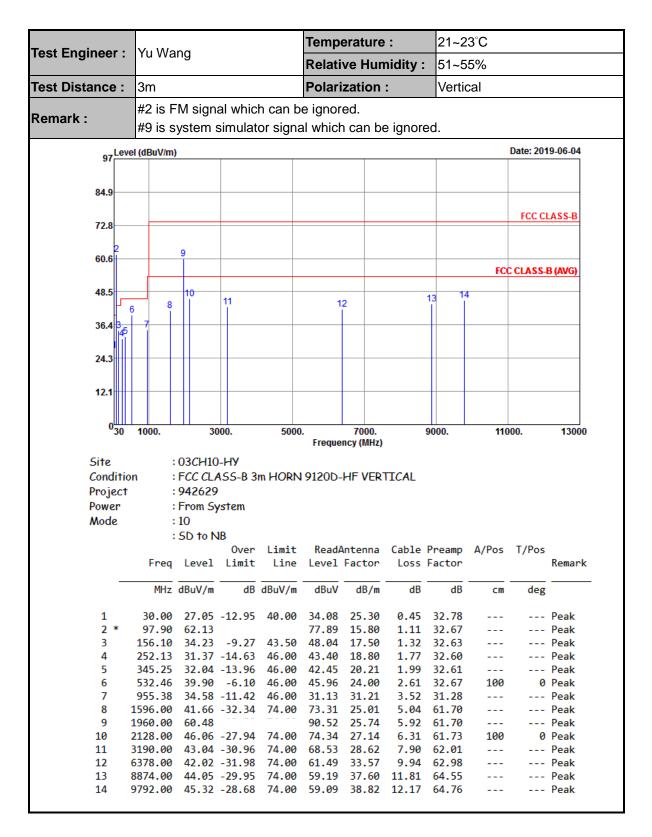




# Appendix B. Radiated Emission Test Result

Teat Engineer	Yu Wang 3m				Temperature : Relative Humidity : Polarization :			21~2	21~23°C 51~55% Horizontal		
Test Engineer :								51~5			
Test Distance :								Horiz			
Demenis	#2 is F	#2 is FM signal which can be ignored.									
Remark :		-		or signa	-		e ignore	ed.			
leve	el (dBuV/m)	)								Date: 201	9-06-04
97											
84.9											
										FCC CI	ASS-B
72.8										FUL U	LA33-D
		8									
60.62									FC	C CLASS-	B (AVG)
48.5											
40.5 J	]	9	10			11		12	13	14	
36.4 5	7										
з	ĭ										
24.3											
12.1											
030	1000.	30	000.	5000		7000. ncy (MHz)		9000.	110	000.	13000
					-						
Site	:	03CH10	)-НУ								
Conditio				m HORN	9120D-	HF HOR	IZONT	AL			
Conditio Project	n :	FCC CL/ 942629	ASS-B 3	m HORN	9120D-	HF HOR	IZONT	AL			
Conditio Project Power	n : :	FCC CL/ 942629 From Sy	ASS-B 3	m HORN	9120D-	HF HOR	IZONT	AL			
Conditio Project	n : :	FCC CL/ 942629 From Sy 10	ASS-B 3 ystem	m HORN	9120D-	HF HOR	IZONT	AL			
Conditio Project Power	n : : :	FCC CL/ 942629 From Sy 10 SD to N	ASS-B3 ystem IB Over	Limit	ReadA	ntenna		AL Preamp	A/Pos	T/Pos	
Conditio Project Power	n : : :	FCC CL/ 942629 From Sy 10	ASS-B3 ystem IB Over	Limit		ntenna	Cable		A/Pos	T/Pos	Remark
Conditio Project Power	n : : : : : : : :	FCC CL/ 942629 From Sy 10 SD to N	ASS-B3 ystem IB Over Limit	Limit	ReadA	ntenna	Cable	Preamp	A/Pos cm	T/Pos 	Remark
Conditio Project Power Mode	n : : : : : : : : : : : : : : : : : : :	FCC CL/ 942629 From Sy 10 SD to N Level dBuV/m	ASS-B3 ystem IB Over Limit dB	Limit Line dBuV/m	ReadA Level dBuV	ntenna Factor dB/m	Cable Loss dB	Preamp Factor 	 	deg	
Conditio Project Power Mode 	n : : : : : : : : : : : : : : : : : : :	FCC CL/ 942629 From Sy 10 SD to N Level dBuV/m 25.85	ASS-B3 ystem IB Over Limit dB	Limit Line	ReadA Level dBuV 32.88	ntenna Factor dB/m 25.30	Cable Loss dB 0.45	Preamp Factor dB 32.78	cm	deg	Peak
Conditio Project Power Mode 1 2 *	n : : : : : : : : : : : : : : : : : : :	FCC CL/ 942629 From Sy 10 SD to N Level dBuV/m 25.85 58.96	ASS-B 3 ystem UB Over Limit dB -14.15	Limit Line dBuV/m 40.00	ReadA Level dBuV 32.88 74.72	ntenna Factor dB/m 25.30 15.80	Cable Loss dB 0.45 1.11	Preamp Factor dB 32.78 32.67	 		
Conditio Project Power Mode 	n : : : : : : : : : : : : : : : : : : :	FCC CL/ 942629 From Sy 10 SD to N Level dBuV/m 25.85 58.96 27.17	ASS-B 3 ystem IB Over Limit dB -14.15 -16.33	Limit Line dBuV/m	ReadA Level dBuV 32.88 74.72 40.98	ntenna Factor dB/m 25.30 15.80 17.50	Cable Loss dB 0.45 1.11 1.32	Preamp Factor dB 32.78	 	deg	Peak Peak
Conditio Project Power Mode 	n : Freq MHz 30.00 97.90 156.10 369.50	FCC CL/ 942629 From Sy 10 SD to N Level dBuV/m 25.85 58.96 27.17 33.77	ASS-B 3 ystem UB Over Limit -14.15 -16.33 -12.23	Limit Line dBuV/m 40.00 43.50	ReadA Level dBuV 32.88 74.72 40.98 43.50	ntenna Factor dB/m 25.30 15.80 17.50 20.79	Cable Loss dB 0.45 1.11 1.32 2.10	Preamp Factor dB 32.78 32.67 32.63		deg	Peak Peak Peak
Conditio Project Power Mode 	n : Freq MHz 30.00 97.90 156.10 369.50 450.01 531.49	FCC CL/ 942629 From Sy 10 SD to N Level dBuV/m 25.85 58.96 27.17 33.77 36.78 31.84	ASS-B 3 //stem // // // // // // // // // /	Limit Line dBuV/m 40.00 43.50 46.00 46.00 46.00	ReadA Level dBuV 32.88 74.72 40.98 43.50 44.00 37.90	ntenna Factor dB/m 25.30 15.80 17.50 20.79 23.00 24.00	Cable Loss dB 0.45 1.11 1.32 2.10 2.41 2.61	Preamp Factor dB 32.78 32.67 32.63 32.62 32.63 32.63 32.67		deg    0	Peak Peak Peak Peak Peak
Conditio Project Power Mode 	n : Freq MHz 30.00 97.90 156.10 369.50 450.01 531.49 959.26	FCC CL/ 942629 From Sy 10 SD to N Level dBuV/m 25.85 58.96 27.17 33.77 36.78 31.84 34.90	ASS-B 3 //stem // // // // // // // // // /	Limit Line dBuV/m 40.00 43.50 46.00 46.00	ReadA Level dBuV 32.88 74.72 40.98 43.50 44.00 37.90 31.32	ntenna Factor dB/m 25.30 15.80 17.50 20.79 23.00 24.00 31.29	Cable Loss dB 0.45 1.11 1.32 2.10 2.41 2.61 3.53	Preamp Factor dB 32.78 32.67 32.63 32.62 32.63 32.67 31.24	cm  100 	deg   0 	Peak Peak Peak Peak Peak Peak Peak
Conditio Project Power Mode 	n : Freq MHz 30.00 97.90 156.10 369.50 450.01 531.49 959.26 1960.00	FCC CL/ 942629 From Sy 10 SD to N Level dBuV/m 25.85 58.96 27.17 33.77 36.78 31.84 34.90 61.05	ASS-B 3 ystem IB Over Limit dB -14.15 -16.33 -12.23 -9.22 -14.16 -11.10	Limit Line dBuV/m 40.00 43.50 46.00 46.00 46.00	ReadA Level dBuV 32.88 74.72 40.98 43.50 44.00 37.90 31.32 91.09	ntenna Factor dB/m 25.30 15.80 17.50 20.79 23.00 24.00 31.29 25.74	Cable Loss dB 0.45 1.11 1.32 2.10 2.41 2.61 3.53 5.92	Preamp Factor dB 32.78 32.67 32.63 32.62 32.63 32.67 31.24 61.70	cm   100 	deg   0 	Peak Peak Peak Peak Peak Peak Peak Peak
Conditio Project Power Mode 	n : Freq MHz 30.00 97.90 156.10 369.50 450.01 531.49 959.26 1960.00 2678.00	FCC CL/ 942629 From Sy 10 SD to N Level dBuV/m 25.85 58.96 27.17 33.77 36.78 31.84 34.90 61.05 41.35	ASS-B 3 ystem IB Over Limit dB -14.15 -16.33 -12.23 -9.22 -14.16 -11.10 -32.65	Limit Line dBuV/m 40.00 43.50 46.00 46.00 46.00 46.00 74.00	ReadA Level dBuV 32.88 74.72 40.98 43.50 44.00 37.90 31.32 91.09 68.39	ntenna Factor dB/m 25.30 15.80 17.50 20.79 23.00 24.00 31.29 25.74 27.56	Cable Loss dB 0.45 1.11 1.32 2.10 2.41 2.61 3.53 5.92 7.24	Preamp Factor dB 32.78 32.67 32.63 32.62 32.63 32.67 31.24 61.70 61.84	  100 	deg   0  	Peak Peak Peak Peak Peak Peak Peak Peak
Conditio Project Power Mode 	n : Freq MHz 30.00 97.90 156.10 369.50 450.01 531.49 959.26 1960.00 2678.00 3088.00	FCC CL/ 942629 From Sy 10 SD to N Level dBuV/m 25.85 58.96 27.17 33.77 36.78 31.84 34.90 61.05 41.35 41.03	ASS-B 3 ystem NB Over Limit -14.15 -16.33 -12.23 -9.22 -14.16 -11.10 -32.65 -32.97	Limit Line dBuV/m 40.00 43.50 46.00 46.00 46.00 46.00 74.00 74.00	ReadA Level dBuV 32.88 74.72 40.98 43.50 44.00 37.90 31.32 91.09 68.39 66.50	ntenna Factor dB/m 25.30 15.80 17.50 20.79 23.00 24.00 31.29 25.74 27.56 28.65	Cable Loss dB 0.45 1.11 1.32 2.10 2.41 2.61 3.53 5.92 7.24 7.83	Preamp Factor dB 32.78 32.67 32.63 32.62 32.63 32.67 31.24 61.70 61.84 61.95	  100 	deg   0   	Peak Peak Peak Peak Peak Peak Peak Peak
Conditio Project Power Mode 	n : Freq MHz 30.00 97.90 156.10 369.50 450.01 531.49 959.26 1960.00 2678.00 3088.00 6542.00	FCC CL/ 942629 From Sy 10 SD to N Level dBuV/m 25.85 58.96 27.17 33.77 36.78 31.84 34.90 61.05 41.35 41.03 42.60	ASS-B 3 ystem NB Over Limit -14.15 -16.33 -12.23 -9.22 -14.16 -11.10 -32.65 -32.97 -31.40	Limit Line dBuV/m 40.00 43.50 46.00 46.00 46.00 46.00 74.00 74.00 74.00	ReadA Level dBuV 32.88 74.72 40.98 43.50 44.00 37.90 31.32 91.09 68.39 66.50 61.21	ntenna Factor dB/m 25.30 15.80 17.50 20.79 23.00 24.00 31.29 25.74 27.56 28.65 34.28	Cable Loss dB 0.45 1.11 1.32 2.10 2.41 2.61 3.53 5.92 7.24 7.83 10.16	Preamp Factor dB 32.78 32.67 32.63 32.62 32.63 32.67 31.24 61.70 61.84 61.95 63.05	  100  	deg   0   	Peak Peak Peak Peak Peak Peak Peak Peak
Conditio Project Power Mode 	n : Freq MHz 30.00 97.90 156.10 369.50 450.01 531.49 959.26 1960.00 2678.00 3088.00 6542.00 8850.00	FCC CL/ 942629 From Sy 10 SD to N Level dBuV/m 25.85 58.96 27.17 33.77 36.78 31.84 34.90 61.05 41.35 41.03 42.60 44.64	ASS-B 3 ystem NB Over Limit -14.15 -16.33 -12.23 -9.22 -14.16 -11.10 -32.65 -32.97 -31.40 -29.36	Limit Line dBuV/m 40.00 43.50 46.00 46.00 46.00 46.00 74.00 74.00 74.00 74.00	ReadA Level dBuV 32.88 74.72 40.98 43.50 44.00 37.90 31.32 91.09 68.39 66.50 61.21 59.65	ntenna Factor dB/m 25.30 15.80 17.50 20.79 23.00 24.00 31.29 25.74 27.56 28.65 34.28 37.70	Cable Loss dB 0.45 1.11 1.32 2.10 2.41 2.61 3.53 5.92 7.24 7.83 10.16 11.81	Preamp Factor dB 32.78 32.67 32.63 32.62 32.63 32.67 31.24 61.70 61.84 61.95 63.05 64.52	  100  	deg   0    	Peak Peak Peak Peak Peak Peak Peak Peak
Conditio Project Power Mode 	n : Freq MHz 30.00 97.90 156.10 369.50 450.01 531.49 959.26 1960.00 2678.00 3088.00 6542.00 8850.00	FCC CL/ 942629 From Sy 10 SD to N Level dBuV/m 25.85 58.96 27.17 33.77 36.78 31.84 34.90 61.05 41.35 41.03 42.60 44.64 45.48	ASS-B 3 //stem //B Over Limit -14.15 -16.33 -12.23 -9.22 -14.16 -11.10 -32.65 -32.97 -31.40 -29.36 -28.52	Limit Line dBuV/m 40.00 43.50 46.00 46.00 46.00 46.00 74.00 74.00 74.00	ReadA Level 32.88 74.72 40.98 43.50 44.00 37.90 31.32 91.09 68.39 66.50 61.21 59.65 57.47	ntenna Factor dB/m 25.30 15.80 17.50 20.79 23.00 24.00 31.29 25.74 27.56 28.65 34.28 37.70 39.52	Cable Loss dB 0.45 1.11 1.32 2.10 2.41 2.61 3.53 5.92 7.24 7.83 10.16 11.81 12.86	Preamp Factor dB 32.78 32.67 32.63 32.62 32.63 32.67 31.24 61.70 61.84 61.95 63.05 64.52 64.37	  100  	deg   0    0 0   0 0	Peak Peak Peak Peak Peak Peak Peak Peak





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