





# FCC EMI TEST REPORT

FCC ID :	:	IHDT56XS1
Equipment :	:	Mobile Cellular Phone
Brand Name :	:	Motorola
Model Name :	:	XT1980-4
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 Mar. 05, 2019 and testing was started from Mar. 29, 2019 and completed on Apr. 06, 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 partial 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.

5nee/sai

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



# Table of Contents

His	tory of	this test report	.3
Su	nmary	of Test Result	.4
1.	Genera	al Description	.5
	1.2. 1.3. 1.4.	Product Feature of Equipment Under Test Product Specification of Equipment Under Test Modification of EUT Test Location Applicable Standards	.5 .7 .7
2.	Test C	onfiguration of Equipment Under Test	.8
	2.2. 2.3.	Test Mode Connection Diagram of Test System Support Unit used in test configuration and system EUT Operation Test Setup	.8 .9
3.	Test R	esult	10
	3.2.	Test of AC Conducted Emission Measurement	12
4.	List of	Measuring Equipment	14
5.	Uncert	ainty of Evaluation	15
Ap	pendix	A. AC Conducted Emission Test Result	

Appendix B. Radiated Emission Test Result

Appendix C. Setup Photographs



# History of this test report

Report No.	Version	Description	Issued Date
FC930415-06	01	Initial issue of report	Apr. 18, 2019



# Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Test Items Result (PASS/FAIL)	
3.1	15.107	AC Conducted Emission	Pass	Under limit 4.12 dB at 0.227 MHz
3.2	15.109	Radiated Emission	Pass	Under limit 6.63 dB at 55.920 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: Aileen Huang** 



# 1. General Description

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

Product Feature							
Equipment	Mobile Cellular Phone						
Brand Name	Motorola						
Model Name	XT1980-4						
FCC ID	IHDT56XS1						
IMEI Code	Conduction : 352157100008574						
	Radiation : 352157100008509						
	CDMA/EV-DO/GSM/EGPRS/WCDMA/HSPA/LTE/NFC/GNSS/						
	FM						
EUT supports Radios application	WLAN 11a/b/g/n HT20/HT40						
	WLAN 11ac VHT20/VHT40/VHT80						
	Bluetooth BR/EDR/LE						
HW Version	DVT2						
EUT Stage	Identical Prototype						

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

Accessory List				
WPC Cover	Brand Name :	Motorola		
	Model Name :	MD100W		

# **1.2.** 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 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 LTE Band 12 : 699.7 MHz ~ 715.3 MHz LTE Band 13 : 779.5 MHz ~ 715.3 MHz LTE Band 66: 1710.7 MHz ~ 784.5 MHz LTE Band 66: 1710.7 MHz ~ 1779.3 MHz CDMA2000 BC0: 824.70 MHz ~ 848.31 MHz CDMA2000 BC1: 1851.25 MHz ~ 1908.75 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11b/g/n: 2412 MHz ~ 5540 MHz; 5260 MHz ~ 5320 MHz;5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700 MHz ; 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz NFC : 13.56 MHz



Standards-related Product Specification				
	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 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			
	LTE Band 13 : 748.5 MHz ~ 753.5 MHz			
Rx Frequency	LTE Band 66: 2110.7 MHz ~ 2199.3 MHz			
	CDMA2000 BC0: 869.70 MHz ~ 893.31 MHz			
	CDMA2000 BC1: 1931.25 MHz ~ 1988.75 MHz			
	802.11b/g/n: 2412 MHz ~ 2462 MHz			
	802.11a/n/ac: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz;5500			
	$MHz \sim 5580 \text{ MHz} \text{ and } 5660 \text{ MHz} \sim 5700 \text{ MHz} : 5745$			
	MHz ~ 5825 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			
	LTE : Dipole Antenna			
	WLAN : Loop Antenna			
Antenna Type	Bluetooth : Loop Antenna			
	NFC : Loop Antenna			
	GNSS : Loop Antenna			
	FM Receiver : using earphone as antenna			
	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			
	CDMA2000 : QPSK			
	CDMA2000 1xEV-DO : 8PSK			
Type of Modulation	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 (2Mbps) : # /4-DQPSK			
	Bluetooth (3Mbps) : 8-DPSK			
	GPS : BPSK			
	NFC: ASK			
	FM			
	[ · ···			



### **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.	PORTON INTERNATIONAL INC.			
Test Site Location	Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456	TEL: +886-3-327-3456			
	FAX: +886-3-328-4978 Sporton	Site No.			
Test Site No.	CO05-HY	03CH06-HY			

FCC Designation No. TW1093

### 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

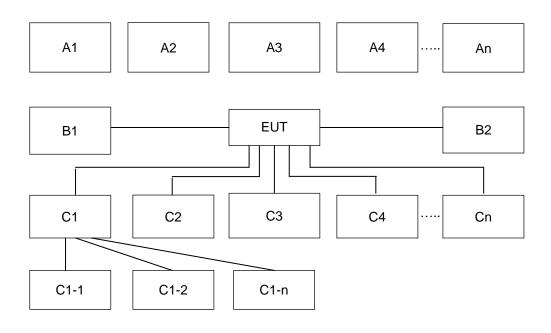
### 2.1. Test Mode

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				
A	C Conducted	Mode 1 : GSM850 Idle + Bluetooth Idle + WLAN Idle + Camera + Battery + WPC Back cover + LG Charging pad + USB Cable (Charging from AC Adapter) + SIM 1				
Emission	Emission	Mode 2 : WCDMA V Idle + Bluetooth Idle + WLAN Idle + NFC on + Battery + WPC Back cover + PMA Charging pad + Adapter + SIM 2				
Radiated Emissions		Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + Camera + Battery + WPC Back cover + LG Charging pad + USB Cable (Charging from AC Adapter) + SIM 1				
		Mode 2: WCDMA V Idle + Bluetooth Idle + WLAN Idle + NFC on + Battery + WPC Back cover + PMA Charging pad + Adapter + SIM 2				
Ren	nark:					
1.	The worst case of AC is mode 2; only the test data of this mode was reported.					
2.	The worst case of RE is mode 2; only the test data of this mode was reported.					

# 2.2. Connection Diagram of Test System





Radiation Test Setup									
No.	Wireless Station	Connection Type	Test Mode						
NO.		1	2	-	-	-	-	-	
A1	BT Earphone	Bluetooth	Х	Х					
A2	System Simulator	GSM/UMTS/CDMA/ WCDMA/LTE	х	х					
A3	AP router	WiFi	Х	Х					
No.	Power Source	Connection Type	1	2	-	-	-	-	-
B1	AC : 120V/60Hz	WPC	Х	Х					
No.	Setup Peripherals	Connection Type	1	2	-	-	-	-	-
C1	Earphone	Earphone jack	Х	Х					
C2	SD card	SD I/O interface without Cable	х	Х					

	Conduction Test Setup								
No.	Wireless Station	Connection Type	Test Mode						
NO.	Wireless Station	Connection Type	1	2	-	-	-	-	-
A1	BT Earphone	Bluetooth	Х	Х					
A2	System Simulator	GSM/UMTS/CDMA/ WCDMA/LTE	х	х					
A3	AP router	WiFi	Х	Х					
No.	Power Source	Connection Type	1	2	-	-	-	-	-
B1	AC : 120V/60Hz	WPC	Х	Х					
No.	Setup Peripherals	Connection Type	1	2	-	-	-	-	-
C1	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.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
4.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
5.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A
6.	РМА	Duracell	CT 06801	N/A	N/A	N/A
7.	LG Charging Pad	LG	WCD-110	FCC DoC	Shielded, 0.5 m	N/A

### 2.4. EUT Operation Test Setup

The EUT was in GSM or WCDMA 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. Turn on camera to capture images.
- 2. 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

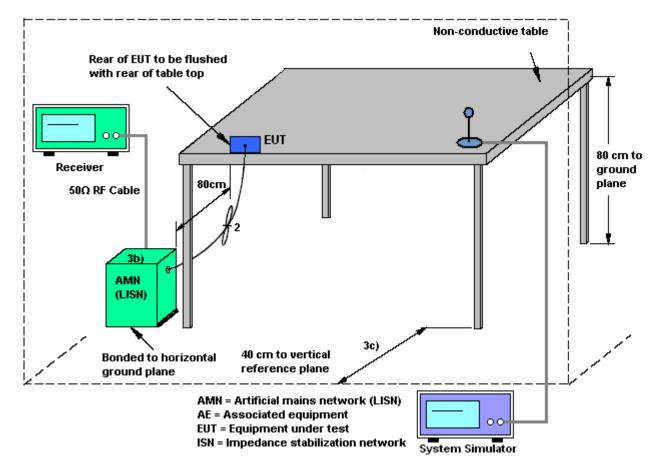
Refer a test equipment and calibration data table in this test report.

#### 3.1.3 Test Procedure

- 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.
- 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.

TEL : 886-3-327-3456	Page Number	: 11 of 15
FAX : 886-3-328-4978	Issued Date	: Apr. 18, 2019
Report Template No.: BU5-FD15BS Version 2.4	Report Version	: 01



### 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.

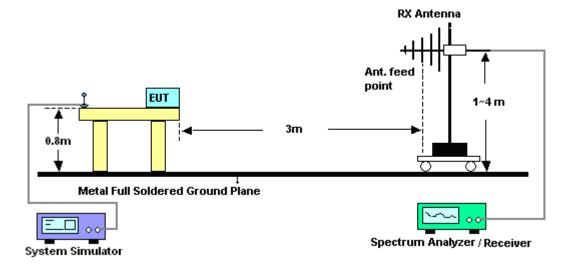
#### 3.2.3. Test Procedures

- 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

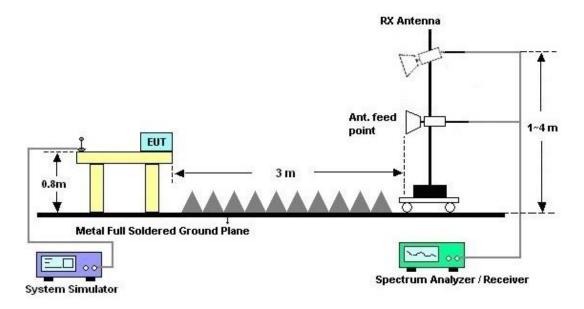


#### 3.2.4. Test Setup of Radiated Emission

#### 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.



# 4. List of Measuring Equipment

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	Mar. 29, 2019	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9KHz~3.6GHz	Nov. 12, 2018	Mar. 29, 2019	Nov. 11, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 14, 2018	Mar. 29, 2019	Nov. 13, 2019	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Mar. 29, 2019	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Dec. 31, 2018	Mar. 29, 2019	Dec. 30, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Dec. 31, 2018	Mar. 29, 2019	Dec. 30, 2019	Conduction (CO05-HY)
Bilog Antenna	Schaffner	CBL6111C&N -6-06	2725&AT- N0601	30MHz~1GHz	Oct. 13, 2018	Apr. 06, 2019	Oct. 12, 2019	Radiation (03CH06-HY)
EMI Test Receiver	Rohde & Schwarz	ESU26	100472	20Hz~26.5GHz	Jan. 08, 2019	Apr. 06, 2019	Jan. 07, 2020	Radiation (03CH06-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-115 6	1GHz~18GHz	Aug. 24, 2018	Apr. 06, 2019	Aug. 23, 2019	Radiation (03CH06-HY)
Preamplifier	SONOMA	310N	186713	9kHz~1GHz	May 02, 2018	Apr. 06, 2019	May 01, 2019	Radiation (03CH06-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1850117	1GHz ~ 18GHz	May 24, 2018	Apr. 06, 2019	May 23, 2019	Radiation (03CH06-HY)
Controller	INN-CO	EM1000	060782	Control Turn table & Ant Mast	N/A	Apr. 06, 2019	N/A	Radiation (03CH06-HY)
Antenna Mast	MF	MF-7802	MF780208 212	1m~4m	N/A	Apr. 06, 2019	N/A	Radiation (03CH06-HY)
Turn Table	INN-CO	DS2000	420/650/00	0-360 degree	N/A	Apr. 06, 2019	N/A	Radiation (03CH06-HY)
Test Software	AUDIX	e3	6.2009-8-2 4(k5)	N/A	N/A	Apr. 06, 2019	N/A	Radiation (03CH06-HY)
RF Cable	HUBER+SUH NER/WOKEN/ HARBOUR INDUSTRIES	SUCOFLEX 104/STORM/L L142	MY24966/ 4/00100A1 O2A178T/ CA3601-3 601-1000	30MHz-26GHz	Nov. 22, 2018	Apr. 06, 2019	Nov. 21, 2019	Radiation (03CH06-HY)
Filter	Microwave	H1G013G1	SN477215	1.0G High Pass	Nov. 02, 2018	Apr. 06, 2019	Nov. 01, 2019	Radiation (03CH06-HY)
Filter	Wainwright	WLKS1200-8 SS	SN3	1.2G Low Pass	Nov. 02, 2018	Apr. 06, 2019	Nov. 01, 2019	Radiation (03CH06-HY)



# 5. Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence	2.2
of 95% (U = 2Uc(y))	2.2

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

OI 95% (U = 2UC(V))	Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.9
---------------------	--	-----

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

Measuring Uncertainty for a Level of Confidence	47
of 95% (U = 2Uc(y))	4.7



# Appendix A. AC Conducted Emission Test Results

Toot English	<b></b>	Dick	and linear	Chang		Ter	npera	ture :		<b>24~26</b> ℃
Test Engine	er:		and Jimmy	Chang		Re	lative	Humid	lity :	51~53%
Test Voltage	:	120Vac /	<sup>/</sup> 60Hz			Pha	ase :			Line
 Remark :		Allemiss	sions not rer	orted here	are mo	re than 1	O dR	below t	he pre	escribed limit.
	Level in dBuV	100 90 80 70 60 50 40 20 10 150k	300 400 500	800 1M			CISPR-OF	2 Limitat Ma	ain Ports	
				Fr	equency in	Hz				
		inal Re	esult QuasiPeak	Fr CAverage	equency in	Hz Margin	Line	Filter	Corr.	
	F	requency (MHz)		CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)	
	F	Frequency (MHz) 0.165750	QuasiPeak (dBuV)	CAverage (dBuV) 32.34	Limit (dBuV) 55.17	Margin (dB) 22.83	Line L1	Filter	Corr. (dB) 19.5	
	F	requency (MHz)	QuasiPeak	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)	
	F	Frequency (MHz) 0.165750 0.165750 0.172500 0.172500	QuasiPeak (dBuV)	CAverage (dBuV) 32.34  40.89	Limit (dBuV) 55.17 65.17 54.84 64.84	Margin (dB) 22.83 15.94 13.95 9.28	Line L1 L1 L1 L1 L1	Filter OFF OFF OFF	Corr. (dB) 19.5 19.5 19.5 19.5	
	F	requency (MHz) 0.165750 0.165750 0.172500 0.172500 0.179250	QuasiPeak (dBuV)  49.23  55.56 	CAverage (dBuV) 32.34	Limit (dBuV) 55.17 65.17 54.84 64.84 54.52	Margin (dB) 22.83 15.94 13.95 9.28 15.68	Line L1 L1 L1 L1 L1 L1	Filter OFF OFF OFF OFF	Corr. (dB) 19.5 19.5 19.5 19.5 19.5	
	F	requency (MHz) 0.165750 0.165750 0.172500 0.172500 0.179250 0.179250	QuasiPeak (dBuV)  49.23  55.56  54.52	CAverage (dBuV) 32.34  40.89  38.84 	Limit (dBuV) 55.17 65.17 54.84 64.84 54.52 64.52	Margin (dB) 22.83 15.94 13.95 9.28 15.68 10.00	Line L1 L1 L1 L1 L1 L1 L1	Filter OFF OFF OFF OFF OFF	Corr. (dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5	
		requency (MHz) 0.165750 0.165750 0.172500 0.172500 0.179250 0.179250 0.183750	QuasiPeak (dBuV)  49.23  55.56  54.52 	CAverage (dBuV) 32.34  40.89	Limit (dBuV) 55.17 65.17 54.84 64.84 54.52 64.52 54.31	Margin (dB) 22.83 15.94 13.95 9.28 15.68 10.00 22.70	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	
		requency (MHz) 0.165750 0.165750 0.172500 0.172500 0.179250 0.179250	QuasiPeak (dBuV)  49.23  55.56  54.52	CAverage (dBuV) 32.34  40.89  38.84 	Limit (dBuV) 55.17 65.17 54.84 64.84 54.52 64.52	Margin (dB) 22.83 15.94 13.95 9.28 15.68 10.00 22.70 15.61	Line L1 L1 L1 L1 L1 L1 L1	Filter OFF OFF OFF OFF OFF	Corr. (dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5	
	F	requency (MHz) 0.165750 0.165750 0.172500 0.172500 0.172500 0.179250 0.179250 0.183750 0.183750 0.219750	QuasiPeak (dBuV)  49.23  55.56  54.52  48.70	CAverage (dBuV) 32.34  40.89  38.84  31.61  36.07 	Limit (dBuV) 55.17 65.17 54.84 64.84 54.52 64.52 54.31 64.31 52.83 62.83	Margin (dB) 22.83 15.94 13.95 9.28 15.68 10.00 22.70 15.61 16.76 23.17	Line 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	
	F	requency (MHz) 0.165750 0.165750 0.172500 0.172500 0.179250 0.179250 0.179250 0.179250 0.183750 0.183750 0.219750 0.229000	QuasiPeak (dBuV)  49.23  55.56  54.52  48.70  39.66 	CAverage (dBuV) 32.34  40.89  38.84  31.61  36.07  43.05	Limit (dBuV) 55.17 65.17 54.84 64.84 54.52 64.52 64.52 54.31 64.31 52.83 62.83 52.74	Margin (dB) 22.83 15.94 13.95 9.28 15.68 10.00 22.70 15.61 16.76 23.17 9.69	Line L1 L1 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	
		requency (MHz) 0.165750 0.165750 0.172500 0.172500 0.179250 0.179250 0.183750 0.219750 0.219750 0.222000 0.222000	QuasiPeak (dBuV)  49.23  55.56  54.52  48.70 	CAverage (dBuV) 32.34  40.89  38.84  31.61  36.07  43.05 	Limit (dBuV) 55.17 65.17 54.84 64.84 54.52 64.52 54.31 64.31 62.83 62.83 52.74 62.74	Margin (dB) 22.83 15.94 13.95 9.28 15.68 10.00 22.70 15.61 16.76 23.17 9.69 16.28	Line L1 L1 L1 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	
		requency (MHz) 0.165750 0.165750 0.172500 0.172500 0.179250 0.179250 0.183750 0.219750 0.2219750 0.222000 0.222000 0.222000	QuasiPeak (dBuV)  49.23  55.56  54.52  48.70  39.66  46.46 	CAverage (dBuV) 32.34  40.89  38.84  31.61  36.07  43.05  48.46	Limit (dBuV) 55.17 65.17 54.84 64.84 54.52 64.52 54.31 64.31 52.83 62.83 52.74 62.74 52.58	Margin (dB) 22.83 15.94 13.95 9.28 15.68 10.00 22.70 15.61 16.76 23.17 9.69 16.28 4.12	Line L1 L1 L1 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	
		requency (MHz) 0.165750 0.165750 0.172500 0.172500 0.179250 0.179250 0.183750 0.183750 0.219750 0.2219750 0.222000 0.222000 0.222000 0.222600 0.226500	QuasiPeak (dBuV)  49.23  55.56  54.52  48.70  39.66  46.46  52.54	CAverage (dBuV) 32.34  40.89  38.84  31.61  36.07  43.05  48.46 	Limit (dBuV) 55.17 65.17 54.84 64.84 54.52 64.52 54.31 64.31 52.83 62.83 52.74 62.74 62.74 52.58 62.58	Margin (dB) 22.83 15.94 13.95 9.28 15.68 10.00 22.70 15.61 16.76 23.17 9.69 16.28 4.12 10.04	Line L1 L1 L1 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	
		requency (MHz) 0.165750 0.165750 0.172500 0.172500 0.179250 0.179250 0.183750 0.183750 0.219750 0.2219750 0.222000 0.222000 0.222000 0.2226500 0.228750	QuasiPeak (dBuV)  49.23  55.56  54.52  48.70  39.66  46.46  52.54 	CAverage (dBuV) 32.34  40.89  38.84  31.61  36.07  43.05  48.46	Limit (dBuV) 55.17 65.17 54.84 64.84 54.52 64.52 54.31 64.31 52.83 62.83 52.74 62.74 52.58 62.58 52.50	Margin (dB) 22.83 15.94 13.95 9.28 15.68 10.00 22.70 15.61 16.76 23.17 9.69 16.28 4.12 10.04 5.76	Line L1 L1 L1 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	
		requency (MHz) 0.165750 0.165750 0.172500 0.172500 0.179250 0.179250 0.183750 0.219750 0.229000 0.222000 0.222000 0.222000 0.2226500 0.228750 0.228750	QuasiPeak (dBuV)  49.23  55.56  54.52  48.70  39.66  46.46  52.54	CAverage (dBuV) 32.34  40.89  38.84  31.61  36.07  43.05  48.46  46.74 	Limit (dBuV) 55.17 65.17 54.84 64.84 54.52 64.52 54.31 64.31 52.83 62.83 52.74 62.74 62.74 52.58 62.58 52.50 62.50	Margin (dB) 22.83 15.94 13.95 9.28 15.68 10.00 22.70 15.61 16.76 23.17 9.69 16.28 4.12 10.04 5.76 10.47	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	
		requency (MHz) 0.165750 0.165750 0.172500 0.172500 0.179250 0.179250 0.183750 0.183750 0.219750 0.2219750 0.222000 0.222000 0.222000 0.2226500 0.228750	QuasiPeak (dBuV)  49.23  55.56  54.52  48.70  39.66  46.46  52.54 	CAverage (dBuV) 32.34  40.89  38.84  31.61  36.07  43.05  48.46 	Limit (dBuV) 55.17 65.17 54.84 64.84 54.52 64.52 54.31 64.31 52.83 62.83 52.74 62.74 52.58 62.58 52.50	Margin (dB) 22.83 15.94 13.95 9.28 15.68 10.00 22.70 15.61 16.76 23.17 9.69 16.28 4.12 10.04 5.76	Line L1 L1 L1 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	
		requency (MHz) 0.165750 0.165750 0.172500 0.172500 0.179250 0.179250 0.179250 0.183750 0.219750 0.229000 0.222000 0.222000 0.226500 0.226500 0.228750 0.228750 0.228750	QuasiPeak (dBuV)  49.23  55.56  54.52  48.70  39.66  39.66  52.54  52.54  52.03 	CAverage (dBuV) 32.34  40.89  38.84  31.61  36.07  43.05  48.46  48.46  46.74  42.61	Limit (dBuV) 55.17 65.17 54.84 64.84 54.52 64.52 54.31 64.31 52.83 62.83 52.74 62.74 52.58 62.58 52.50 62.50 52.41 62.41 52.17	Margin (dB) 22.83 15.94 13.95 9.28 15.68 10.00 22.70 15.61 16.76 23.17 9.69 16.28 4.12 10.04 5.76 10.47 9.80	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	
		requency (MHz) 0.165750 0.165750 0.172500 0.172500 0.172500 0.179250 0.183750 0.183750 0.219750 0.219750 0.222000 0.222000 0.222000 0.226500 0.228750 0.228750 0.228750 0.2231000 0.231000 0.237750	QuasiPeak (dBuV)  49.23  55.56  54.52  48.70  39.66  46.46  52.54  52.03  49.91	CAverage (dBuV) 32.34  40.89  38.84  31.61  43.05  43.05  448.46  46.74  42.61  32.47 	Limit (dBuV) 55.17 65.17 54.84 64.84 54.52 64.52 54.31 64.31 52.83 62.83 52.74 62.74 52.58 62.58 52.50 62.50 52.41 62.41 52.17 62.17	Margin (dB) 22.83 15.94 13.95 9.28 15.68 10.00 22.70 15.61 16.76 23.17 9.69 16.28 4.12 10.04 5.76 10.47 9.80 12.50 19.70 15.54	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	
		requency (MHz) 0.165750 0.165750 0.172500 0.172500 0.179250 0.179250 0.183750 0.183750 0.219750 0.229000 0.222000 0.222000 0.226500 0.228750 0.228750 0.228750 0.228750 0.2231000 0.231000	QuasiPeak (dBuV)  49.23  55.56  54.52  48.70  39.66  39.66  52.54  52.03  52.03  49.91 	CAverage (dBuV) 32.34  40.89  38.84  31.61  36.07  43.05  43.05  48.46  46.74  42.61 	Limit (dBuV) 55.17 65.17 54.84 64.84 54.52 64.52 54.31 64.31 52.83 62.83 52.74 62.74 52.58 62.58 52.50 62.50 52.41 62.41 52.17	Margin (dB) 22.83 15.94 13.95 9.28 15.68 10.00 22.70 15.61 16.76 23.17 9.69 16.28 4.12 10.04 5.76 10.47 9.80 12.50 19.70	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	



Teet Engineer	DialeLin		Chang		Ter	npera	ture :		<b>24~26</b> ℃
Test Engineer		, and Jimmy	Chang		Rel	lative	Humid	lity :	51~53%
Test Voltage :	120Vac	/ 60Hz			Pha	ase :			Line
Remark :	All emiss	sions not rep	orted here	are mo	re than 1	0 dB l	below t	he pre	escribed limit.
I	100 90 80 70 60 50 40 30 20 10 10 150k	300 400 500	800 1M	2M 3N equency in	и 4 4м 5м 6	CISPR Ave	Limit at Ma Limit at Ma	air Ports	- M
	Final R	esult							
	Frequency (MHz) 0.411000 0.566250 0.566250	QuasiPeak (dBuV)  37.47  26.71	CAverage (dBuV) 27.14  23.06  36.54	Limit (dBuV) 47.63 57.63 46.00 56.00 46.00	Margin (dB) 20.49 20.16 22.94 29.29 9.46	Line L1 L1 L1 L1 L1 L1 L1	Filter OFF OFF OFF OFF	Corr. (dB) 19.5 19.5 19.5 19.5 19.5	-
	1.131000 1.131000 1.583250 1.583250 4.524000 4.524000 13.560000	 38.25  38.33  38.45 	36.64  36.87  30.08	56.00 46.00 56.00 46.00 56.00 50.00	17.75 9.36 17.67 9.13 17.55 19.92	L1 L1 L1 L1 L1 L1	OFF OFF OFF OFF OFF	19.6 19.6 19.7 19.7 20.0	- - - - -



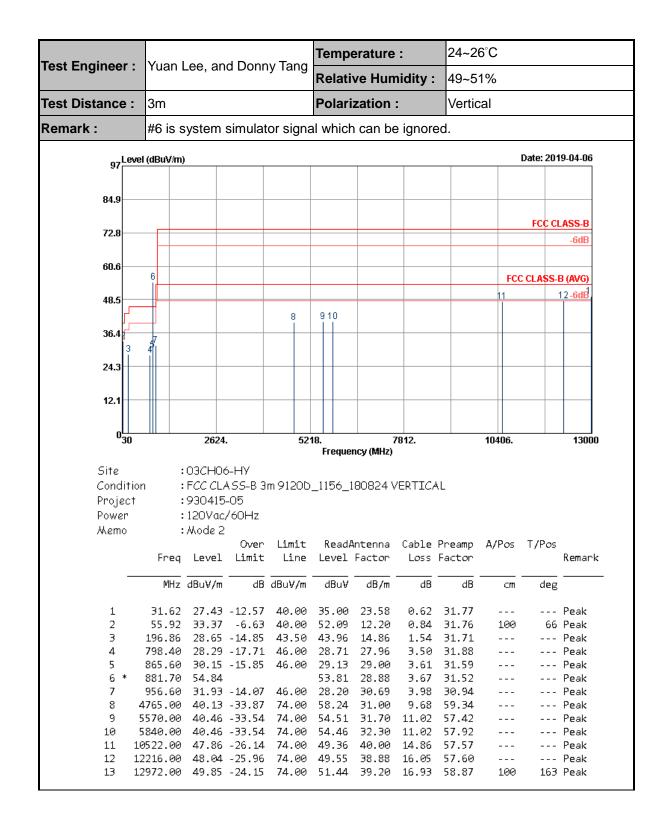
LOST ENGINAAP	<b>Dick Lin</b>	and limmy	Chang		Ter	npera	ture :		<b>24~26</b> ℃
Test Engineer :		and Jimmy	Chang		Re	lative	Humid	lity :	51~53%
Test Voltage :	120Vac /	60Hz			Pha	ase :			Neutral
Remark :	Allemice	ions not rer	orted here	are mo	re than 1			he nre	scribed limit
	100- 90- 80- 70- 50- 40- 40- 30- 20- 10-					<u>8 P R - A v</u>	P Limit a e Limit a		
		300400500	8001 M Fr	2M 3M equency ir	1 4M5M6 n Hz	8 10M	1 20	M 30M	
	inal Resu	lt :	Fr	equency ir	n Hz				
	inal Resul	lt : QuasiPeak	Fr CAverage	equency ir Limit	Margin	8 10M	Filter	Corr.	
	inal Resu	lt :	Fr	equency ir Limit (dBuV)	Margin (dB)				
	inal Resu Frequency (MHz)	lt : QuasiPeak	Fr CAverage (dBuV)	equency ir Limit	Margin	Line	Filter	Corr. (dB)	
	inal Resul Frequency (MHz) 0.170250	lt: QuasiPeak (dBuV) 	Fr CAverage (dBuV)	equency ir Limit (dBuV) 54.95	Margin (dB) 18.75	Line	Filter	Corr. (dB) 19.5	
	Tinal Resul Frequency (MHz) 0.170250 0.170250	lt: QuasiPeak (dBuV) 	Fr CAverage (dBuV) 36.20	equency ir Limit (dBuV) 54.95 64.95	Margin (dB) 18.75 11.98	Line N N	Filter OFF OFF	Corr. (dB) 19.5 19.5	
	inal Resul Frequency (MHz) 0.170250 0.170250 0.177000	It : QuasiPeak (dBuV)  52.97 	Fr CAverage (dBuV) 36.20	equency ir Limit (dBuV) 54.95 64.95 54.63	Margin (dB) 18.75 11.98 14.37	Line N N N	Filter OFF OFF OFF	Corr. (dB) 19.5 19.5 19.5	
	inal Resul Frequency (MHz) 0.170250 0.170250 0.177000 0.177000	It : QuasiPeak (dBuV)  52.97 	Fr CAverage (dBuV) 36.20  40.26 	equency ir Limit (dBuV) 54.95 64.95 54.63 64.63	Margin (dB) 18.75 11.98 14.37 10.66	Line N N N N	Filter OFF OFF OFF	Corr. (dB) 19.5 19.5 19.5 19.5	
	150k Frequency (MHz) 0.170250 0.170250 0.177000 0.177000 0.183750	It : QuasiPeak (dBuV)  52.97  53.97 	Fr CAverage (dBuV) 36.20  40.26 	equency ir Limit (dBuV) 54.95 64.95 54.63 64.63 54.31	Margin (dB) 18.75 11.98 14.37 10.66 22.17	Line N N N N	Filter OFF OFF OFF OFF	Corr. (dB) 19.5 19.5 19.5 19.5 19.5	
	150k Frequency (MHz) 0.170250 0.177000 0.177000 0.177000 0.183750 0.183750	It : QuasiPeak (dBuV)  52.97  53.97 	Fr CAverage (dBuV) 36.20  40.26  32.14 	Limit (dBuV) 54.95 64.95 54.63 64.63 54.31 64.31	Margin (dB) 18.75 11.98 14.37 10.66 22.17 15.29	Line N N N N N	Filter OFF OFF OFF OFF OFF	Corr. (dB) 19.5 19.5 19.5 19.5 19.5 19.5	
	150k Frequency (MHz) 0.170250 0.170250 0.177000 0.177000 0.183750 0.183750 0.226500	It : QuasiPeak (dBuV)  52.97  53.97  49.02 	Fr CAverage (dBuV) 36.20  40.26  32.14  46.50	Limit (dBuV) 54.95 64.95 54.63 64.63 54.31 64.31 52.58	Margin (dB) 18.75 11.98 14.37 10.66 22.17 15.29 6.08	Line N N N N N N	Filter OFF OFF OFF OFF OFF	Corr. (dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5	
	150k Frequency (MHz) 0.170250 0.177000 0.177000 0.183750 0.183750 0.226500 0.226500	It : QuasiPeak (dBuV)  52.97  53.97  49.02  51.29	Fr CAverage (dBuV) 36.20  40.26  32.14  46.50 	Limit (dBuV) 54.95 64.95 54.63 64.63 54.31 64.31 52.58 62.58	Margin (dB) 18.75 11.98 14.37 10.66 22.17 15.29 6.08 11.29	Line N N N N N N N	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	
	150k inal Resu Frequency (MHz) 0.170250 0.170250 0.177000 0.177000 0.183750 0.183750 0.226500 0.226500 0.231000	It : QuasiPeak (dBuV)  52.97  53.97  49.02  51.29 	Fr CAverage (dBuV) 36.20  40.26  32.14  46.50 	Limit (dBuV) 54.95 64.95 54.63 64.63 54.31 64.31 52.58 62.58 52.41	Margin (dB) 18.75 11.98 14.37 10.66 22.17 15.29 6.08 11.29 11.77	Line N N N N N N N N N N	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	
	150k inal Resu Frequency (MHz) 0.170250 0.170250 0.177000 0.183750 0.183750 0.226500 0.226500 0.2231000 0.231000	It : QuasiPeak (dBuV)  52.97  53.97  49.02  51.29  48.90	Fr CAverage (dBuV) 36.20  40.26  32.14  46.50  40.64 	Limit (dBuV) 54.95 64.95 54.63 64.63 54.63 64.63 54.31 64.31 64.31 62.58 62.58 62.58 52.41 62.41	Margin (dB) 18.75 11.98 14.37 10.66 22.17 15.29 6.08 11.29 11.77 13.51	Line N N N N N N N N N N N	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	
	150k inal Resu Frequency (MHz) 0.170250 0.170250 0.177000 0.177000 0.183750 0.226500 0.226500 0.226500 0.226500 0.2231000 0.231000 0.298500	It : QuasiPeak (dBuV)  52.97  53.97  49.02  51.29  48.90 	Fr CAverage (dBuV) 36.20  40.26  32.14  46.50  40.64  28.71	Limit (dBuV) 54.95 64.95 54.63 64.63 54.63 54.63 54.63 54.63 54.63 54.63 54.63 54.63 54.63 54.63 54.25 8 62.58 52.41 62.41 50.28	Margin (dB) 18.75 11.98 14.37 10.66 22.17 15.29 6.08 11.29 11.77 13.51 21.57	Line N N N N N N N N N N N N N	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	
	150k inal Resu Frequency (MHz) 0.170250 0.1770250 0.177000 0.177000 0.183750 0.226500 0.226500 0.226500 0.231000 0.231000 0.298500 0.298500	It : QuasiPeak (dBuV)  52.97  53.97  49.02  51.29  48.90  48.90  42.06	Fr CAverage (dBuV) 36.20  40.26  32.14  40.50  40.64  28.71 	Limit (dBuV) 54.95 64.95 54.63 64.63 54.31 64.31 64.31 64.31 52.58 62.58 62.58 52.41 62.41 50.28 60.28	Margin (dB) 18.75 11.98 14.37 10.66 22.17 15.29 6.08 11.29 11.77 13.51 21.57 18.22	Line N N N N N N N N N N N N N N	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	
	150k inal Resul Frequency (MHz) 0.170250 0.1770250 0.177000 0.177000 0.183750 0.226500 0.226500 0.226500 0.231000 0.231000 0.238500 0.298500 0.298500 0.404250	It : QuasiPeak (dBuV)  52.97  53.97  49.02  51.29  51.29  48.90  48.90  42.06 	Fr CAverage (dBuV) 36.20  40.26  32.14  40.50  40.64  28.71 	Limit (dBuV) 54.95 64.95 54.63 64.63 54.31 64.31 64.31 64.31 62.58 62.58 62.58 62.58 62.241 62.41 50.28 60.28 47.77	Margin (dB) 18.75 11.98 14.37 10.66 22.17 15.29 6.08 11.29 11.77 13.51 21.57 18.22 20.24 20.28	Line N N N N N N N N N N N N N N N	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	
	150k inal Resul Frequency (MHz) 0.170250 0.1770250 0.177000 0.177000 0.183750 0.226500 0.226500 0.226500 0.231000 0.231000 0.298500 0.298500 0.298500 0.404250 0.404250	It : QuasiPeak (dBuV)  52.97  53.97  49.02  51.29  48.90  48.90  48.90  37.49	Fr CAverage (dBuV) 36.20  40.26  32.14  40.64  28.71  27.53 	Limit (dBuV) 54.95 64.95 54.63 64.63 54.31 64.31 52.58 62.58 62.58 52.41 62.41 62.41 50.28 60.28 47.77 57.77 46.00	Margin (dB) 18.75 11.98 14.37 10.66 22.17 15.29 6.08 11.29 11.77 13.51 21.57 18.22 20.24	Line N N N N N N N N N N N N N N N N N N	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	
	150k inal Resu Frequency (MHz) 0.170250 0.170250 0.177000 0.177000 0.183750 0.226500 0.226500 0.226500 0.231000 0.231000 0.238500 0.298500 0.404250 0.404250 0.676500 0.676500	It : QuasiPeak (dBuV)  52.97  53.97  49.02  31.29  48.90  48.90  48.90  37.49 	Fr CAverage (dBuV) 36.20  40.26  32.14  46.50  40.64  28.71  27.53  33.38 	Limit (dBuV) 54.95 64.95 54.63 64.63 54.31 64.31 52.58 62.58 62.58 62.58 62.58 62.241 62.41 50.28 60.28 47.77 57.77	Margin (dB) 18.75 11.98 14.37 10.66 22.17 15.29 6.08 11.29 11.77 13.51 21.57 18.22 20.24 20.28 12.62 20.37	Line N N N N N N N N N N N N N N N N N	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	
	150k inal Resul Frequency (MHz) 0.170250 0.170250 0.177000 0.177000 0.183750 0.226500 0.226500 0.226500 0.231000 0.231000 0.298500 0.298500 0.298500 0.404250 0.404250 0.676500	It : QuasiPeak (dBuV)  52.97  53.97  49.02  31.29  48.90  48.90  48.90  37.49 	Fr CAverage (dBuV) 36.20  40.26  32.14  40.64  28.71  27.53  33.38	Limit (dBuV) 54.95 64.95 54.63 64.63 54.31 64.31 52.58 62.58 52.41 62.41 50.28 60.28 47.77 57.77 46.00 56.00 46.00	Margin (dB) 18.75 11.98 14.37 10.66 22.17 15.29 6.08 11.29 11.77 13.51 21.57 18.22 20.24 20.28 12.62 20.37 10.70	Line N N N N N N N N N N N N N N N N N N N	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	
	150k inal Resu Frequency (MHz) 0.170250 0.170250 0.177000 0.183750 0.226500 0.226500 0.226500 0.231000 0.231000 0.298500 0.298500 0.404250 0.404250 0.404250 0.676500 1.131000	It : QuasiPeak (dBuV)  52.97  53.97  49.02  51.29  48.90  48.90  37.49  35.63 	Fr CAverage (dBuV) 36.20  40.26  32.14  46.50  28.71  28.71  27.53  33.38  35.30	Limit (dBuV) 54.95 64.95 54.63 64.63 54.31 64.31 52.58 62.58 52.41 62.41 50.28 60.28 47.77 57.77 46.00 56.00 46.00 56.00	Margin (dB) 18.75 11.98 14.37 10.66 22.17 15.29 6.08 11.29 11.77 13.51 21.57 18.22 20.24 20.28 12.62 20.37 10.70 18.30	Line N N N N N N N N N N N N N N N N N N N	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	
	150k inal Resu Frequency (MHz) 0.170250 0.170250 0.177000 0.177000 0.183750 0.226500 0.226500 0.226500 0.231000 0.231000 0.298500 0.298500 0.298500 0.404250 0.676500 0.676500 1.131000 1.131000 4.976250	It : QuasiPeak (dBuV)  52.97  33.97  49.02  51.29  48.90  48.90  48.90  37.49  35.63  37.70  	Fr CAverage (dBuV) 36.20  40.26  32.14  32.14  28.71  27.53  33.38  35.30 	Limit (dBuV) 54.95 64.95 54.63 64.31 64.31 52.58 62.58 52.41 62.41 50.28 60.28 47.77 57.77 46.00 56.00 46.00	Margin (dB) 18.75 11.98 14.37 10.66 22.17 15.29 6.08 11.29 11.77 13.51 21.57 18.22 20.24 20.28 12.62 20.37 10.70 18.30 10.06	Line N N N N N N N N N N N N N N N N N N N	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	
	150k inal Resu Frequency (MHz) 0.170250 0.170250 0.177000 0.177000 0.183750 0.226500 0.226500 0.226500 0.226500 0.231000 0.231000 0.231000 0.298500 0.298500 0.404250 0.404250 0.676500 0.676500 1.131000 1.131000 4.976250	It : QuasiPeak (dBuV)  52.97  53.97  49.02  51.29  48.90  37.49  35.63  37.70	Fr CAverage (dBuV) 36.20  40.26  32.14  46.50  28.71  28.71  28.71  33.38  33.38  35.30  35.94 	Limit (dBuV) 54.95 64.95 54.63 64.63 54.31 64.31 52.58 62.58 52.41 62.41 50.28 60.28 47.77 57.77 46.00 56.00 46.00 56.00	Margin (dB) 18.75 11.98 14.37 10.66 22.17 15.29 6.08 11.29 11.77 13.51 21.57 18.22 20.24 20.28 12.62 20.37 10.70 18.30	Line N N N N N N N N N N N N N N N N N N N	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	
	150k inal Resu Frequency (MHz) 0.170250 0.170250 0.177000 0.177000 0.183750 0.226500 0.226500 0.226500 0.231000 0.231000 0.298500 0.298500 0.298500 0.404250 0.404250 0.676500 1.131000 1.131000 4.976250	It : QuasiPeak (dBuV)  52.97  33.97  49.02  49.02  49.02  35.129  48.90  37.49  35.63  37.70  38.16 	Fr CAverage (dBuV) 36.20  40.26  32.14  46.50  40.64  28.71  27.53  33.38  35.30  35.94	Limit (dBuV) 54.95 64.95 54.63 64.31 64.31 52.58 62.58 52.41 62.41 50.28 60.28 47.77 57.77 46.00 56.00 46.00 56.00 56.00	Margin (dB) 18.75 11.98 14.37 10.66 22.17 15.29 6.08 11.29 11.77 13.51 21.57 18.22 20.24 20.28 12.62 20.37 10.70 18.30 10.06 17.84 20.23	Line N N N N N N N N N N N N N N N N N N N	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	
	150k inal Resu Frequency (MHz) 0.170250 0.170250 0.177000 0.177000 0.183750 0.226500 0.226500 0.226500 0.226500 0.231000 0.298500 0.298500 0.298500 0.404250 0.404250 0.676500 1.131000 1.131000 4.976250 4.976250 13.560000	It : QuasiPeak (dBuV)  52.97  53.97  49.02  51.29  51.29  48.90  48.90  37.49  35.63  35.63  37.70  38.16	Fr CAverage (dBuV) 36.20  40.26  32.14  46.50  28.71  28.71  28.71  33.38  33.38  35.30  35.94 	Limit (dBuV) 54.95 64.95 54.63 64.63 54.63 64.63 54.63 64.63 54.63 64.63 52.58 62.58 52.41 62.41 50.28 60.28 47.77 57.77 46.00 56.00 46.00 56.00	Margin (dB) 18.75 11.98 14.37 10.66 22.17 15.29 6.08 11.29 11.77 13.51 21.57 18.22 20.24 20.28 12.62 20.37 10.70 18.30 10.06 17.84	Line N N N N N N N N N N N N N N N N N N N	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

lost Engineer	Vuon	00.07	d Dono	w Tong	Temp	erature	:	24~2	6°C		
Test Engineer :	Tuan	Lee, an		iy rang	Relati	ve Hun	nidity :	49~5	1%		
Test Distance :	3m				Polari	zation	:	Horiz	ontal		
Remark :	#6 is s	system	simulat	or signa	al which	n can be	e ignore	ed.			
97	l (dBuV/m)	)								Date: 20	19-04-06
84.9											
72.8										FCC C	LASS-B
72.8											-6dB
60.6											
	6								FCO	CLASS	
48.5										11	<u>1-8dB;</u>
20 4				8 9	10						
<b>36.4</b>	9										
24.3											
12.1											
12.1											
		2624		521	18.		7812.		10406.		1300
0 <mark>30</mark>		2624		521		ncy (MHz)	7812.		10406.		1300
0 <sub>30</sub> Site		03CH06	5-HY		Freque	ncy (MHz)			10406.		1300
0 <sub>30</sub> Site Conditio	n :	03CH06 FCC CL7	6-НУ 455-В Э	<b>52</b> 1 m 9120D	Freque	ncy (MHz)			10406.		1300
<b>D30</b> Site Conditio Project	n : :	03CH06 FCC CL/ 930415	5-НУ 4 <i>55</i> -В Э -05		Freque	ncy (MHz)			10406.		1300
0 <sub>30</sub> Site Conditio	n : :	03CH06 FCC CL7	6-HY 4 <i>55</i> -B 3 -05 /60Hz		Freque	ncy (MHz)		DNTAL	10406.		1300
Site Conditio Project Power	n : : :	03CH06 FCC CL/ 930415 120Vac, Mode 2	6-HY 455-B3 -05 /60Hz Over	m 9120D, Limit	Freque _1156_1 	ncy (MHz) 80824 F	HORIZC Cable	Preamp	10406. A/Pos	T/Pos	
Site Conditio Project Power	n : : :	03CH06 FCC CL/ 930415 120Vac,	6-HY 455-B3 -05 /60Hz Over	m 9120D, Limit	Freque _1156_1	ncy (MHz) 80824 F	HORIZC Cable			T/Pos	
Site Conditio Project Power	n : : Freq	03CH06 FCC CL/ 930415 120Vac, Mode 2	5-HY ASS-B3 -05 /60Hz Over Limit	m 9120D, Limit	Freque _1156_1 	ncy (MHz) 80824 F	HORIZC Cable	Preamp		T/Pos deg	Remark
Site Conditio Project Power	n : : Freq	03CH00 FCC CL/ 930415 120Vac, Mode 2 Level dBuV/m	6-HY ASS-B3 -05 /60Hz Over Limit dB	m 9120D, Limit Line	Freque _1156_1 Read# Level 	ncy (MHz) 80824 F Antenna Factor	HORIZC Cable Loss dB	Preamp Factor	A/Pos	deg	Remark
Site Conditio Project Power Memo	n : : Freq MHz 88.86 170.67	03CH06 FCC CL/ 930415 120Vac, Mode 2 Level dBuV/m 28.56 30.57	6-HY 455-B3 -05 /60Hz Limit -14.94 -12.93	m 91200 Limit Line dBuV/m 43.50 43.50	Freque _1156_1 Read <i>I</i> Level dBu¥ 44.77 45.35	ncy (MHz) 80824 H Antenna Factor dB/m 14.50 15.51	HORIZC Cable Loss dB 1.03 1.43	Preamp Factor dB 31.74 31.72	A/Pos 		Remari Peak Peak
Site Conditio Project Power Memo	n : Freq MHz 88.86 170.67 283.26	03CH06 FCC CL/ 930415 120Vac, Mode 2 Level dBuV/m 28.56 30.57 34.77	6-HY ASS-B3 -05 /60Hz Limit -14.94 -12.93 -11.23	m 9120D Limit Line dBuV/m 43.50 43.50 46.00	Freque _1156_1 Read/ Level dBuV 44.77 45.35 45.62	ncy (MHz) 80824 H Antenna Factor dB/m 14.50 15.51 18.80	HORIZC Cable Loss dB 1.03 1.43 2.04	Preamp Factor dB 31.74 31.72 31.69	A/Pos 	deg 	Remari Peak Peak Peak Peak
D <sub>30</sub> Site Conditio Project Power Memo	n : Freq MHz 88.86 170.67 283.26 315.40	03CH06 FCC CL/ 930415 120Vac, Mode 2 Level dBuV/m 28.56 30.57 34.77 34.84	6-HY ASS-B3 -05 /60Hz Limit -14.94 -12.93 -11.23 -11.16	m 9120D Limit Line dBuV/m 43.50 43.50 46.00 46.00	Freque _1156_1 Read <i>I</i> Level dBuV 44.77 45.35 45.62 45.07	Antenna Factor dB/m 14.50 15.51 18.80 19.35	HORIZC Cable Loss dB 1.03 1.43 2.04 2.12	Preamp Factor dB 31.74 31.72 31.69 31.70	A/Pos 	deg   108	Remari Peak Peak Peak Peak
D <sub>30</sub> Site Conditio Project Power Memo	n : Freq MHz 88.86 170.67 283.26 315.40 855.80	03CH06 FCC CL/ 930415 120Vac, Mode 2 Level dBuV/m 28.56 30.57 34.77 34.84 30.40	6-HY ASS-B3 -05 /60Hz Limit -14.94 -12.93 -11.23	m 9120D Limit Line dBuV/m 43.50 43.50 46.00 46.00	Freque _1156_1 Read/ Level dBuV 44.77 45.35 45.62 45.07 29.51	Antenna Factor dB/m 14.50 15.51 18.80 19.35 28.91	HORIZC Cable Loss dB 1.03 1.43 2.04 2.12 3.61	Preamp Factor dB 31.74 31.72 31.69 31.70 31.63	A/Pos 	deg   108 	Remari Peak Peak Peak Peak Peak Peak
Site Conditio Project Power Memo	n : Freq MHz 88.86 170.67 283.26 315.40 855.80 881.70	03CH06 FCC CL/ 930415 120Vac, Mode 2 Level dBuV/m 28.56 30.57 34.77 34.84 30.40 53.82	6-HY ASS-B3 -05 /60Hz Limit -14.94 -12.93 -11.23 -11.16 -15.60	m 9120D Limit Line dBuV/m 43.50 43.50 46.00 46.00	Freque _1156_1 Read/ Level dBuV 44.77 45.35 45.62 45.07 29.51 52.79	Antenna Factor 14.50 15.51 18.80 19.35 28.91 28.88	HORIZC Cable Loss dB 1.03 1.43 2.04 2.12 3.61 3.67	Preamp Factor dB 31.74 31.72 31.69 31.70 31.63 31.52	A/Pos 	deg  108 	Remari Peak Peak Peak Peak Peak Peak Peak
Site Conditio Project Power Memo	n : Freq MHz 88.86 170.67 283.26 315.40 855.80 881.70 951.00	03CH06 FCC CL/ 930415 120Vac, Mode 2 Level dBuV/m 28.56 30.57 34.77 34.84 30.40 53.82 31.61	6-HY A 55-B 3 -05 /60Hz Over Limit -14.94 -12.93 -11.23 -11.16 -15.60 -14.39	m 9120D Limit Line dBuV/m 43.50 43.50 46.00 46.00 46.00	Freque _1156_1 Read/ Level dBuV 44.77 45.35 45.62 45.07 29.51 52.79 28.42	Antenna Factor 14.50 15.51 18.80 19.35 28.91 28.88 30.39	HORIZC Cable Loss dB 1.03 1.43 2.04 2.12 3.61 3.67 3.79	Preamp Factor dB 31.74 31.72 31.69 31.70 31.63 31.52 30.99	A/Pos 	deg  108 	Remard Peak Peak Peak Peak Peak Peak Peak
Site Conditio Project Power Memo 1 2 3 4 5 6 * 7 8	n : Freq 88.86 170.67 283.26 315.40 855.80 855.80 881.70 951.00	03CH06 FCC CL/ 930415 120Vac, Mode 2 Level dBuV/m 28.56 30.57 34.77 34.84 30.40 53.82 31.61 37.79	6-HV A 55-B 3 -05 /60Hz Over Limit -14.94 -12.93 -11.23 -11.16 -15.60 -14.39 -36.21	m 9120D Limit Line dBuV/m 43.50 43.50 46.00 46.00 46.00 46.00 74.00	Freque _1156_1 Read/ Level dBu¥ 44.77 45.35 45.62 45.07 29.51 52.79 28.42 55.72	Antenna Factor 14.50 15.51 18.80 19.35 28.91 28.88 30.39 31.23	HORIZC Cable Loss dB 1.03 1.43 2.04 2.12 3.61 3.67 3.79 9.18	Preamp Factor dB 31.74 31.72 31.69 31.70 31.63 31.52 30.99 58.73	A/Pos 	deg  108 	Remard Peak Peak Peak Peak Peak Peak Peak Peak
Site Conditio Project Power Memo	n : Freq MHz 88.86 170.67 283.26 315.40 855.80 881.70 951.00	03CH06 FCC CL/ 930415 120Vac, Mode 2 Level dBuV/m 28.56 30.57 34.77 34.84 30.40 53.82 31.61 37.79 37.81	6-HY A 55-B 3 -05 /60Hz Over Limit -14.94 -12.93 -11.23 -11.16 -15.60 -14.39	m 9120D Limit Line dBuV/m 43.50 43.50 46.00 46.00 46.00	Freque _1156_1 Read/ Level dBuV 44.77 45.35 45.62 45.07 29.51 52.79 28.42 55.72 53.50	Antenna Factor 14.50 15.51 18.80 19.35 28.91 28.88 30.39 31.23 31.20	HORIZC Cable Loss dB 1.03 1.43 2.04 2.12 3.61 3.67 3.79	Preamp Factor dB 31.74 31.72 31.69 31.70 31.63 31.52 30.99	A/Pos 	deg  108  	Remard Peak Peak Peak Peak Peak Peak Peak
Site Conditio Project Power Memo 1 2 3 4 5 6 * 7 8 9 9	n : Freq MHz 88.86 170.67 283.26 315.40 855.80 855.80 881.70 951.00 4910.00 5240.00	03CH06 FCC CL/ 930415 120Vac, Mode 2 Level dBuV/m 28.56 30.57 34.77 34.84 30.40 53.82 31.61 37.79 37.81 37.76	6-HV A SS-B 3 -05 /60Hz Over Limit -14.94 -12.93 -11.23 -11.16 -15.60 -14.39 -36.21 -36.19	m 9120D Limit Line dBuV/m 43.50 43.50 46.00 46.00 46.00 46.00 74.00 74.00	Freque _1156_1 Read/ Level dBu¥ 44.77 45.35 45.62 45.07 29.51 52.79 28.42 55.72	Antenna Factor 14.50 15.51 18.80 19.35 28.91 28.88 30.39 31.23	HORIZC Cable Loss dB 1.03 1.43 2.04 2.12 3.61 3.67 3.79 9.18 10.23	Preamp Factor dB 31.74 31.72 31.69 31.70 31.63 31.52 30.99 58.73 57.81	A/Pos 	deg  108  	Remard Peak Peak Peak Peak Peak Peak Peak Peak
030 Site Conditio Project Power Memo 1 2 3 4 5 6 * 7 8 4 5 6 * 7 8 4 5 6 * 7 8 4 5 10 1 11 1 12 11	n : Freq Freq MHz 88.86 170.67 283.26 315.40 855.80 881.70 951.00 4910.00 5240.00 5730.00	03CH06 FCC CL/ 930415 120Vac, Mode 2 Level dBuV/m 28.56 30.57 34.77 34.84 30.40 53.82 31.61 37.79 37.81 37.76 48.09 48.14	6-HV A 55-B 3 -05 /60Hz Over Limit -14.94 -12.93 -11.23 -11.16 -15.60 -14.39 -36.21 -36.24	m 9120D Limit Line dBuV/m 43.50 43.50 46.00 46.00 46.00 46.00 74.00 74.00 74.00 74.00 74.00 74.00	Freque _1156_1 Read/ Level dBu¥ 44.77 45.35 45.62 45.07 29.51 52.79 28.42 55.72 53.50 52.05	Antenna Factor dB/m 14.50 15.51 18.80 19.35 28.91 28.88 30.39 31.23 31.20 31.87	HORIZC Cable Loss dB 1.03 1.43 2.04 2.12 3.61 3.67 3.79 9.18 10.23 10.99 15.37 16.33	Preamp Factor dB 31.74 31.72 31.69 31.70 31.63 31.52 30.99 58.73 57.81 57.72	A/Pos   100   	deg	Remard Peak Peak Peak Peak Peak Peak Peak Peak





THE END