



FCC Test Report

APPLICANT : SHARP CORPORATION
EQUIPMENT : Smart Phone
TYPE NAME : Type-A
Type-B
FCC ID : APYHRO00249
STANDARD : FCC 47 CFR FCC Part 15 Subpart B
CLASSIFICATION : Certification

The product was received on Apr. 01, 2017 and testing was completed on Apr. 30, 2017. We, SPORTON INTERNATIONAL 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 INC., the test report shall not be reproduced except in full.

Reviewed by: Louis Wu / Manager

Approved by: Jones Tsai / Manager



SPORTON INTERNATIONAL INC.

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.

SPORTON INTERNATIONAL INC.

TEL : 886-3-327-3456

FAX : 886-3-328-4978

FCC ID : APYHRO00249

Page Number : 1 of 22

Report Issued Date : Jun. 12, 2017

Report Version : Rev. 01

Report Template No.: BU5-FD15B Version 2.0



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. Modification of EUT 5

 1.5. Test Location 6

 1.6. Applicable Standards 6

2. TEST CONFIGURATION OF EQUIPMENT UNDER TEST 7

 2.1. Test Mode 7

 2.2. Connection Diagram of Test System 9

 2.3. Support Unit used in test configuration and system 9

 2.4. EUT Operation Test Setup 10

3. TEST RESULT 11

 3.1. Test of AC Conducted Emission Measurement 11

 3.2. Test of Radiated Emission Measurement 17

4. LIST OF MEASURING EQUIPMENT 21

5. UNCERTAINTY OF EVALUATION 22

APPENDIX A. SETUP PHOTOGRAPHS



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC740121	Rev. 01	Initial issue of report	Jun. 12, 2017



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.107	AC Conducted Emission	< 15.107 limits	PASS	Under limit 3.30 dB at 0.534 MHz
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	Under limit 5.38 dB at 80.220 MHz for Quasi-Peak



1. General Description

1.1. Applicant

SHARP CORPORATION

2-13-1, Hachihonmatsu-lida, Higashi-hiroshima-shi, Hiroshima, 739-0192, Japan

1.2. Manufacturer

SHARP CORPORATION

2-13-1, Hachihonmatsu-lida, Higashi-hiroshima-shi, Hiroshima, 739-0192, Japan

1.3. Product Feature of Equipment Under Test

GSM/WCDMA/LTE, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ac, Wi-Fi 5GHz 802.11a/n/ac, NFC, and GPS

Product Specification subjective to this standard	
Sample 1	EUT with Memory 1
Sample 2	EUT with Memory 2
Antenna Type	WWAN: ILA Antenna WLAN: ILA Antenna Bluetooth: ILA Antenna GPS/Glonass/Beidou/Galileo: ILA Antenna NFC: Loop Antenna

Remark: The deviations between type name: Type-A and type name: Type-B which can be referred Product Equality Declaration. The deviations were switched by Hardware.

1.4. Modification of EUT

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



1.5. Test Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1190 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location	No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C. TEL: +886-3-327-3456 FAX: +886-3-328-4978	
Test Site No.	Sporton Site No.	
	CO05-HY	03CH06-HY

1.6. 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

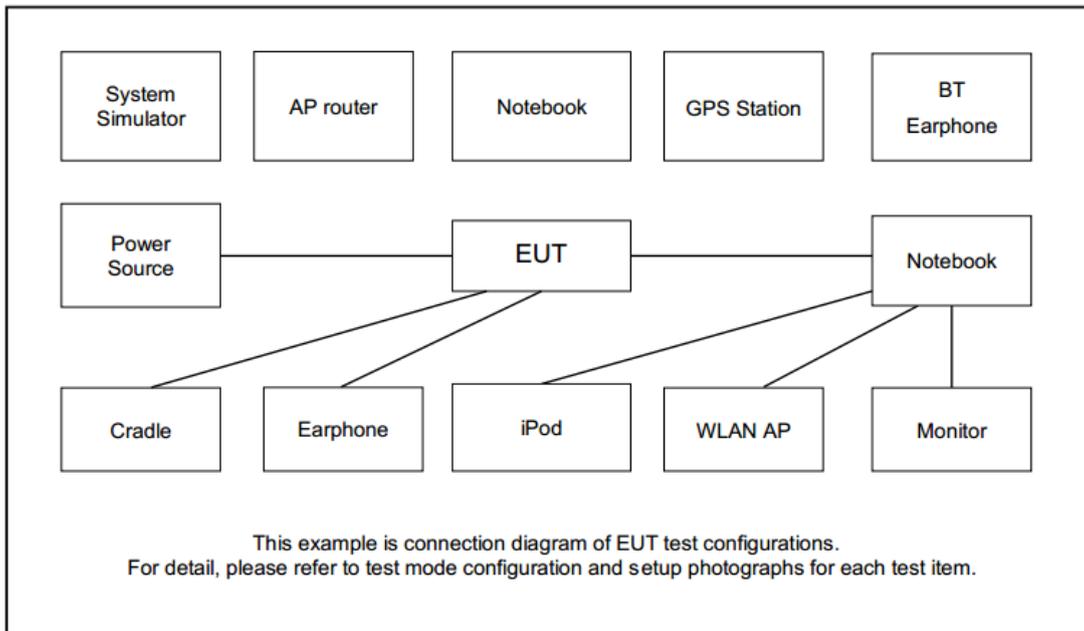
The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

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
AC Conducted Emission	Mode 1: GSM850 Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + Earphone + USB Cable (Charging from Adapter) + NFC On for Sample 1 Mode 2: GSM1900 Idle + Bluetooth Idle + WLAN (5GHz) Idle + Earphone + USB Cable (Charging from Adapter) + MPEG4 for Sample 1 Mode 3: LTE Band 17 Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + Earphone + USB Cable (Charging from Adapter) + Camera (Front) for Sample 1 Mode 4: GSM850 Idle + Bluetooth Idle + WLAN (5GHz) Idle + Earphone + USB Cable (Charging from Adapter) + Camera (Rear) for Sample 1 Mode 5: GSM1900 Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + Earphone + USB Cable (Charging from Adapter) + GPS Rx for Sample 1 Mode 6: LTE Band 17 Idle + Bluetooth Idle + WLAN (5GHz) Idle + Earphone + USB Cable (Data Link with Notebook) + Glonass Rx for Sample 1 Mode 7: LTE Band 17 Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + Earphone + USB Cable (Charging from Adapter) + Camera (Front) for Sample 2
Radiated Emissions	Mode 1: GSM850 Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + Earphone + USB Cable (Charging from Adapter) + NFC On for Sample 1 Mode 2: GSM1900 Idle + Bluetooth Idle + WLAN (5GHz) Idle + Earphone + USB Cable (Charging from Adapter) + MPEG4 for Sample 1 Mode 3: LTE Band 17 Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + Earphone + USB Cable (Charging from Adapter) + Camera (Front) for Sample 1 Mode 4: GSM850 Idle + Bluetooth Idle + WLAN (5GHz) Idle + Earphone + USB Cable (Charging from Adapter) + Camera (Rear) for Sample 1 Mode 5: GSM1900 Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + Earphone + USB Cable (Charging from Adapter) + GPS Rx for Sample 1 Mode 6: LTE Band 17 Idle + Bluetooth Idle + WLAN (5GHz) Idle + Earphone + USB Cable (Data Link with Notebook) + Glonass Rx for Sample 1 Mode 7: GSM850 Idle + Bluetooth Idle + WLAN (5GHz) Idle + Earphone + USB Cable (Charging from Adapter) + Camera (Rear) for Sample 2
Remark: <ol style="list-style-type: none"> 1. The worst case of AC is mode 7; only the test data of this mode was reported. 2. The worst case of RE is mode 7; only the test data of this mode was reported. 3. Data Link with Notebook means data application transferred mode between EUT and Notebook. 	

2.2. Connection Diagram of Test System



2.3. Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	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	T&E	GS-50	N/A	N/A	Unshielded, 1.8 m
4.	GPS Station	Pendulum	GSG-54	N/A	N/A	Unshielded, 1.8 m
5.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
6.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
7.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0 m	N/A
8.	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
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 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. Execute "GPS Test" to make the EUT receive continuous signals from GPS station.
2. Turn on NFC function.
3. Turn on Camera function.
4. Execute "Video player" to play MPEG4 files.



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.

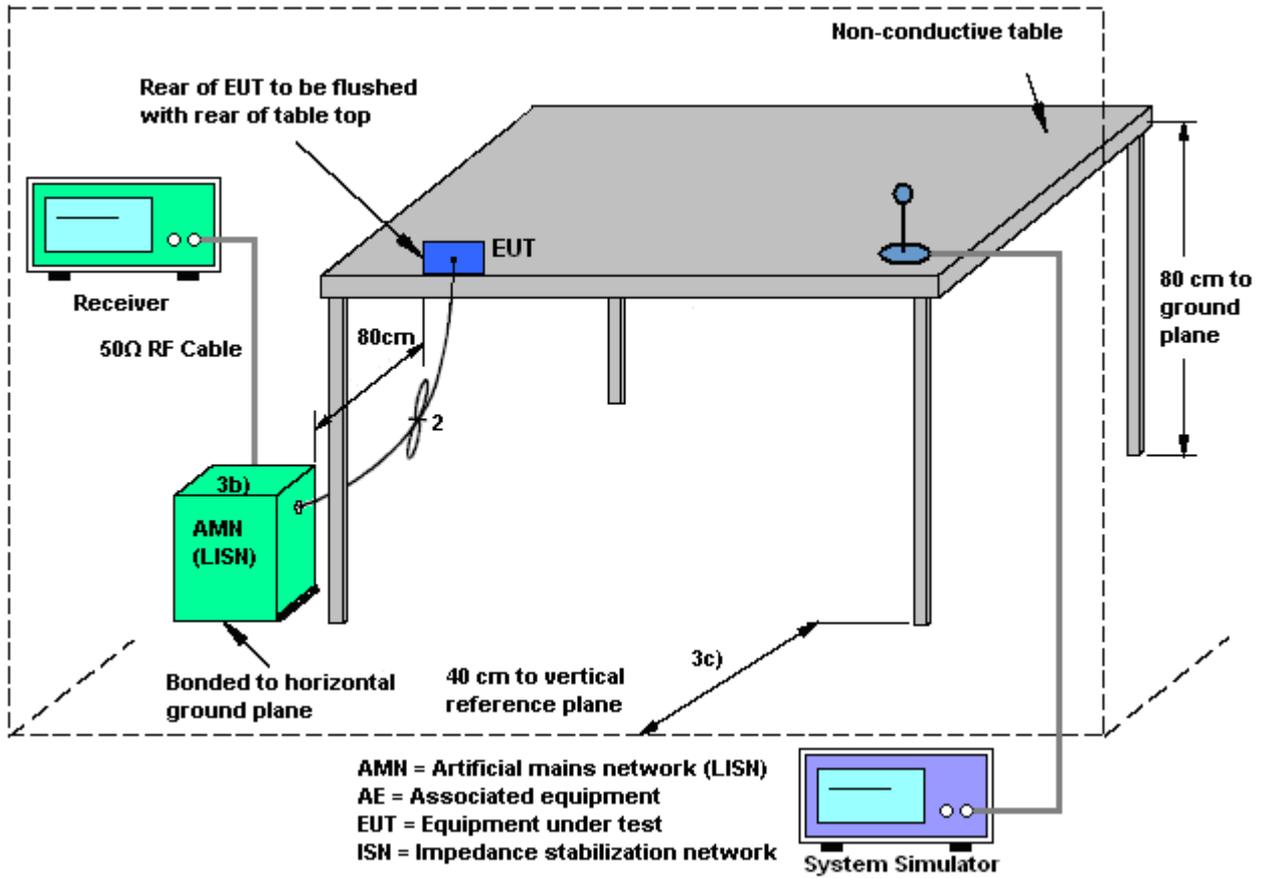
3.1.2 Measuring Instruments

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

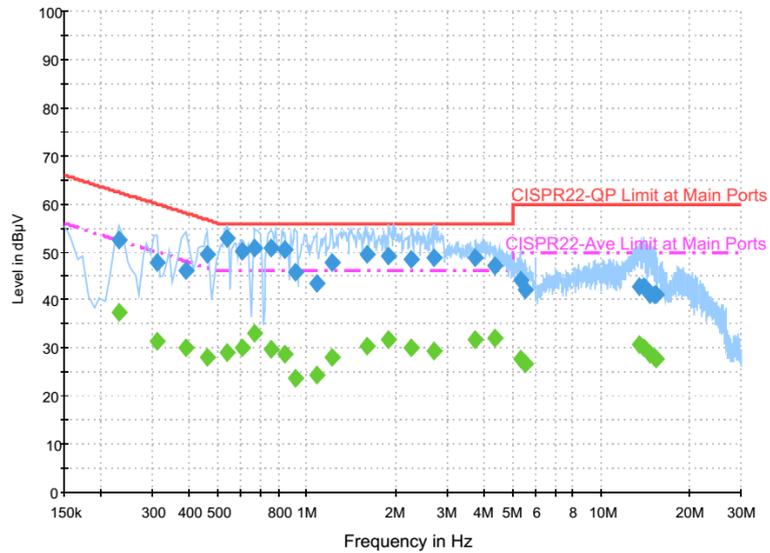
Test Engineer :	Arthur Hsieh	Temperature :	22~24°C
		Relative Humidity :	51~55%
Test Voltage :	120Vac / 60Hz	Phase :	Line

Final Result : Quasi-Peak

Frequency (MHz)	Quasi-Peak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.230000	52.4	Off	L1	19.6	10.0	62.4
0.310000	47.8	Off	L1	19.6	12.2	60.0
0.390000	46.3	Off	L1	19.6	11.8	58.1
0.462000	49.6	Off	L1	19.6	7.1	56.7
0.534000	52.7	Off	L1	19.6	3.3	56.0
0.606000	50.1	Off	L1	19.6	5.9	56.0
0.662000	50.7	Off	L1	19.6	5.3	56.0
0.758000	51.0	Off	L1	19.6	5.0	56.0
0.846000	50.5	Off	L1	19.6	5.5	56.0
0.918000	45.8	Off	L1	19.6	10.2	56.0
1.078000	43.5	Off	L1	19.6	12.5	56.0
1.222000	47.9	Off	L1	19.6	8.1	56.0
1.598000	49.4	Off	L1	19.6	6.6	56.0
1.894000	49.1	Off	L1	19.6	6.9	56.0
2.262000	48.5	Off	L1	18.8	7.5	56.0
2.718000	48.8	Off	L1	19.4	7.2	56.0
3.734000	48.7	Off	L1	19.7	7.3	56.0
4.374000	47.1	Off	L1	19.7	8.9	56.0
5.310000	44.1	Off	L1	19.8	15.9	60.0
5.558000	42.3	Off	L1	19.8	17.7	60.0
13.462000	42.7	Off	L1	20.2	17.3	60.0
13.950000	42.7	Off	L1	20.3	17.3	60.0
14.638000	41.1	Off	L1	20.3	18.9	60.0
15.150000	41.0	Off	L1	20.3	19.0	60.0
15.478000	41.2	Off	L1	20.4	18.8	60.0



Test Engineer :	Arthur Hsieh	Temperature :	22~24°C
		Relative Humidity :	51~55%
Test Voltage :	120Vac / 60Hz	Phase :	Line

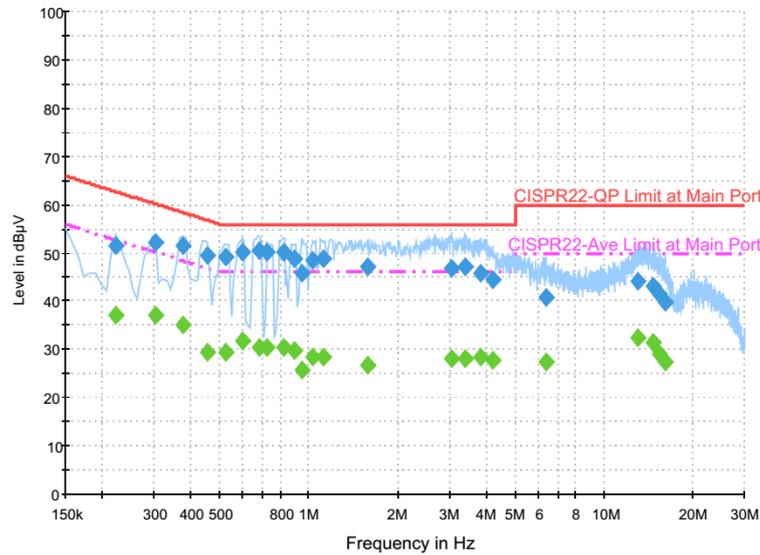


Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.230000	37.4	Off	L1	19.6	15.0	52.4
0.310000	31.3	Off	L1	19.6	18.7	50.0
0.390000	30.0	Off	L1	19.6	18.1	48.1
0.462000	28.0	Off	L1	19.6	18.7	46.7
0.534000	29.0	Off	L1	19.6	17.0	46.0
0.606000	30.1	Off	L1	19.6	15.9	46.0
0.662000	33.2	Off	L1	19.6	12.8	46.0
0.758000	29.8	Off	L1	19.6	16.2	46.0
0.846000	28.8	Off	L1	19.6	17.2	46.0
0.918000	23.6	Off	L1	19.6	22.4	46.0
1.078000	24.5	Off	L1	19.6	21.5	46.0
1.222000	28.1	Off	L1	19.6	17.9	46.0
1.598000	30.3	Off	L1	19.6	15.7	46.0
1.894000	31.9	Off	L1	19.6	14.1	46.0
2.262000	30.0	Off	L1	18.8	16.0	46.0
2.718000	29.5	Off	L1	19.4	16.5	46.0
3.734000	31.9	Off	L1	19.7	14.1	46.0
4.374000	32.0	Off	L1	19.7	14.0	46.0
5.310000	27.8	Off	L1	19.8	22.2	50.0
5.558000	26.8	Off	L1	19.8	23.2	50.0
13.462000	30.8	Off	L1	20.2	19.2	50.0
13.950000	30.2	Off	L1	20.3	19.8	50.0
14.638000	28.7	Off	L1	20.3	21.3	50.0
15.150000	28.1	Off	L1	20.3	21.9	50.0
15.478000	27.8	Off	L1	20.4	22.2	50.0



Test Engineer :	Arthur Hsieh	Temperature :	22~24°C
		Relative Humidity :	51~55%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral

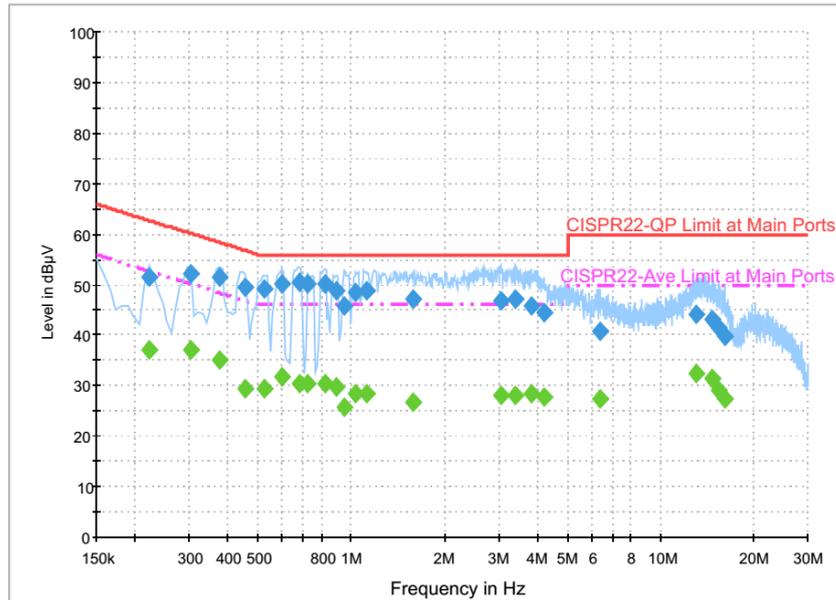


Final Result : Quasi-Peak

Frequency (MHz)	Quasi-Peak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.222000	51.6	Off	N	19.5	11.1	62.7
0.302000	52.0	Off	N	19.5	8.2	60.2
0.374000	51.4	Off	N	19.5	7.0	58.4
0.454000	49.5	Off	N	19.5	7.3	56.8
0.526000	49.2	Off	N	19.5	6.8	56.0
0.598000	50.2	Off	N	19.5	5.8	56.0
0.678000	50.5	Off	N	19.5	5.5	56.0
0.726000	50.1	Off	N	19.5	5.9	56.0
0.822000	50.0	Off	N	19.6	6.0	56.0
0.894000	48.9	Off	N	19.5	7.1	56.0
0.950000	46.0	Off	N	19.6	10.0	56.0
1.038000	48.5	Off	N	19.6	7.5	56.0
1.118000	48.9	Off	N	19.6	7.1	56.0
1.582000	47.3	Off	N	19.6	8.7	56.0
3.038000	46.9	Off	N	19.6	9.1	56.0
3.414000	47.1	Off	N	19.6	8.9	56.0
3.806000	45.9	Off	N	19.7	10.1	56.0
4.214000	44.4	Off	N	19.7	11.6	56.0
6.366000	40.9	Off	N	19.8	19.1	60.0
12.990000	44.1	Off	N	20.3	15.9	60.0
14.702000	43.3	Off	N	20.4	16.7	60.0
15.486000	41.6	Off	N	20.4	18.4	60.0
16.198000	39.8	Off	N	20.5	20.2	60.0



Test Engineer :	Arthur Hsieh	Temperature :	22~24°C
		Relative Humidity :	51~55%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral



Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.222000	37.1	Off	N	19.5	15.6	52.7
0.302000	37.0	Off	N	19.5	13.2	50.2
0.374000	35.0	Off	N	19.5	13.4	48.4
0.454000	29.3	Off	N	19.5	17.5	46.8
0.526000	29.6	Off	N	19.5	16.4	46.0
0.598000	31.8	Off	N	19.5	14.2	46.0
0.678000	30.5	Off	N	19.5	15.5	46.0
0.726000	30.4	Off	N	19.5	15.6	46.0
0.822000	30.5	Off	N	19.6	15.5	46.0
0.894000	29.6	Off	N	19.5	16.4	46.0
0.950000	25.6	Off	N	19.6	20.4	46.0
1.038000	28.3	Off	N	19.6	17.7	46.0
1.118000	28.4	Off	N	19.6	17.6	46.0
1.582000	26.8	Off	N	19.6	19.2	46.0
3.038000	28.2	Off	N	19.6	17.8	46.0
3.414000	28.2	Off	N	19.6	17.8	46.0
3.806000	28.3	Off	N	19.7	17.7	46.0
4.214000	27.9	Off	N	19.7	18.1	46.0
6.366000	27.3	Off	N	19.8	22.7	50.0
12.990000	32.3	Off	N	20.3	17.7	50.0
14.702000	31.3	Off	N	20.4	18.7	50.0
15.486000	29.1	Off	N	20.4	20.9	50.0
16.198000	27.3	Off	N	20.5	22.7	50.0



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

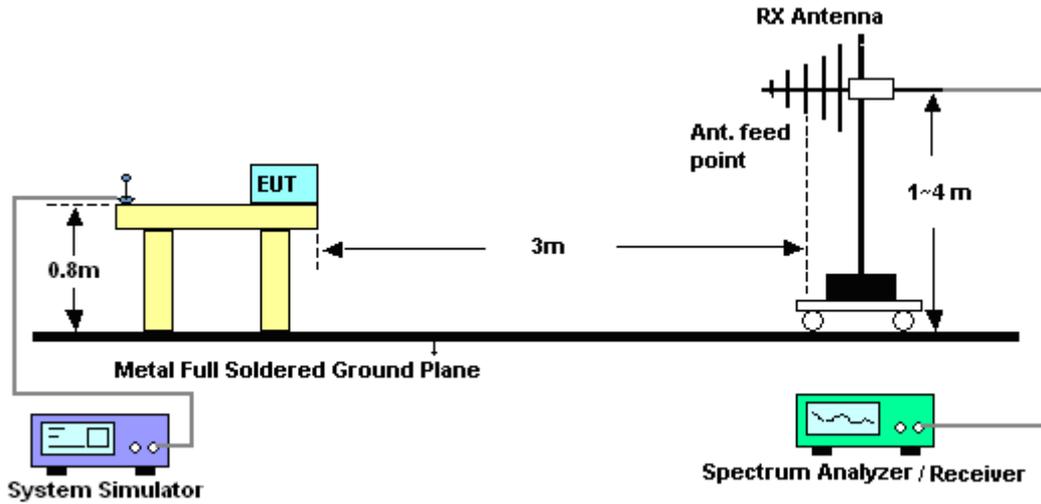
The measuring equipment is listed in the section 4 of this test report.

3.2.3. Test Procedures

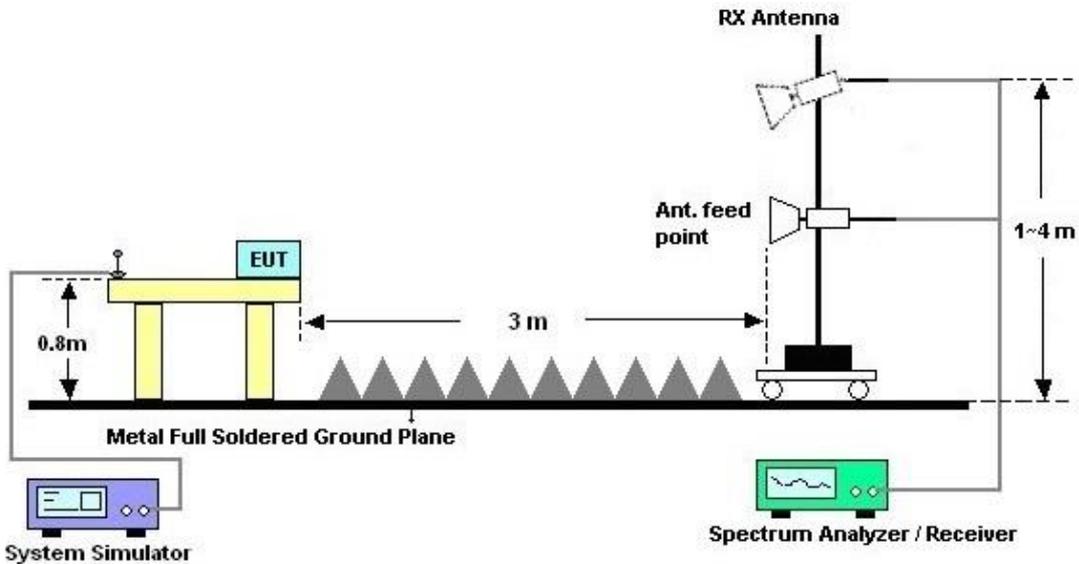
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna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



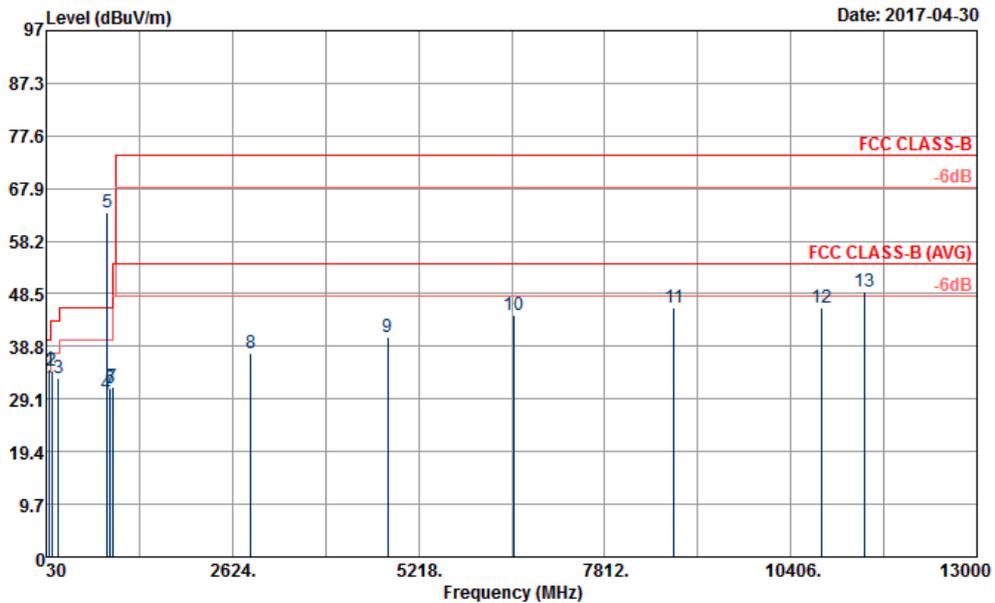
For radiated emissions above 1GHz





3.2.5. Test Result of Radiated Emission

Test Engineer :	Donny Tang	Temperature :	22~24°C
		Relative Humidity :	50~52%
Test Distance :	3m	Polarization :	Horizontal
Remark :	#5 is system simulator signal which can be ignored.		

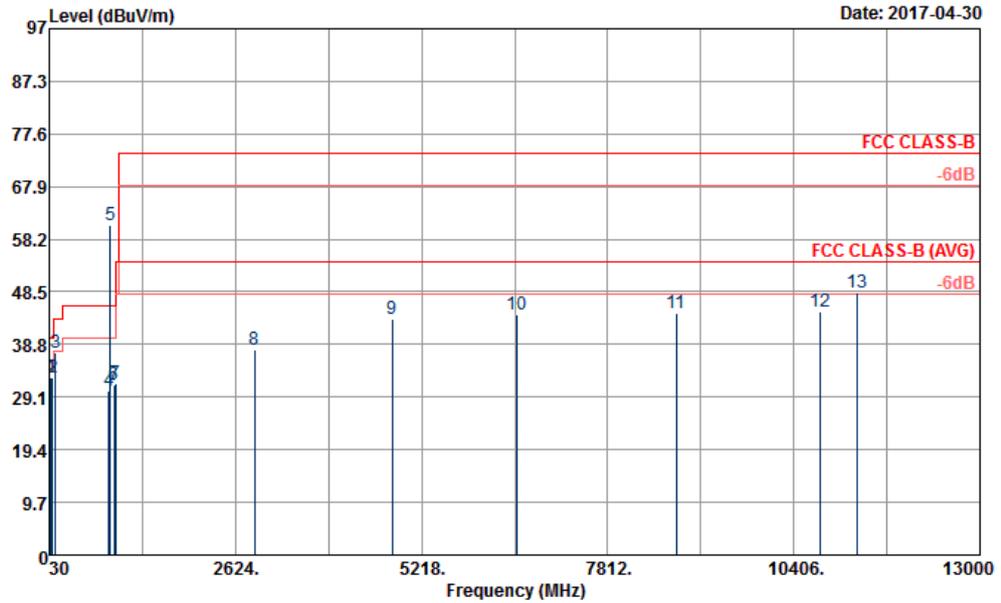


Site : 03CH06-HY
 Condition : FCC CLASS-B 3m 9120D_1156_160817 HORIZONTAL
 Project : 740121
 Power : 120Vac/60Hz
 Memo : Mode 7

	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	dB	cm	deg	
1	80.22	34.62	-5.38	40.00	51.00	13.25	2.16	31.79	200	268 QP	
2	112.08	34.41	-9.09	43.50	47.05	17.10	2.02	31.76	---	---	Peak
3	198.48	32.99	-10.51	43.50	47.95	14.87	1.94	31.77	---	---	Peak
4	867.00	30.05	-15.95	46.00	28.92	29.35	3.34	31.56	---	---	Peak
5 *	881.00	63.44			62.38	29.21	3.36	31.51	---	---	Peak
6	926.50	31.17	-14.83	46.00	28.80	30.37	3.21	31.21	---	---	Peak
7	953.80	31.43	-14.57	46.00	28.36	30.98	3.06	30.97	---	---	Peak
8	2880.00	37.58	-36.42	74.00	62.07	28.63	7.59	60.71	---	---	Peak
9	4792.00	40.66	-33.34	74.00	58.64	31.43	10.95	60.36	---	---	Peak
10	6544.00	44.71	-29.29	74.00	56.70	35.66	12.27	59.92	---	---	Peak
11	8776.00	45.98	-28.02	74.00	52.78	38.29	14.48	59.57	---	---	Peak
12	10834.00	45.94	-28.06	74.00	49.29	41.00	14.80	59.15	---	---	Peak
13	11434.00	48.90	-25.10	74.00	48.81	42.30	15.88	58.09	100	110	Peak



Test Engineer :	Donny Tang	Temperature :	22~24°C
		Relative Humidity :	50~52%
Test Distance :	3m	Polarization :	Vertical
Remark :	#5 is system simulator signal which can be ignored.		



Site : 03CH06-HY
 Condition : FCC CLASS-B 3m 9120D_1156_160817 VERTICAL
 Project : 740121
 Power : 120Vac/60Hz
 Memo : Mode 7

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	cm	deg	
			dB	dBuV/m	dBuV	dB/m	dB	dB			
1	51.33	32.70	-7.30	40.00	48.82	13.62	2.10	31.84	---	---	Peak
2	79.95	32.64	-7.36	40.00	49.16	13.11	2.16	31.79	---	---	Peak
3	116.67	37.37	-6.13	43.50	49.78	17.32	2.03	31.76	100	179	Peak
4	855.10	30.16	-15.84	46.00	29.02	29.43	3.32	31.61	---	---	Peak
5 *	881.70	60.86			59.78	29.22	3.36	31.50	---	---	Peak
6	927.90	31.32	-14.68	46.00	28.88	30.43	3.20	31.19	---	---	Peak
7	954.50	31.53	-14.47	46.00	28.45	30.99	3.06	30.97	---	---	Peak
8	2896.00	37.91	-36.09	74.00	62.30	28.70	7.63	60.72	---	---	Peak
9	4806.00	43.48	-30.52	74.00	61.32	31.46	11.01	60.31	---	---	Peak
10	6542.00	44.41	-29.59	74.00	56.40	35.66	12.27	59.92	---	---	Peak
11	8764.00	44.60	-29.40	74.00	51.40	38.29	14.48	59.57	---	---	Peak
12	10778.00	44.88	-29.12	74.00	48.43	41.00	14.73	59.28	---	---	Peak
13	11294.00	48.38	-25.62	74.00	49.15	41.90	15.61	58.28	100	162	Peak



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	Apr. 30, 2017	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI 7	100724	9kHz~7GHz	Aug. 30, 2016	Apr. 30, 2017	Aug. 29, 2017	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 29, 2016	Apr. 30, 2017	Nov. 28, 2017	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Dec. 06, 2016	Apr. 30, 2017	Dec. 05, 2017	Conduction (CO05-HY)
Bilog Antenna	Schaffner	CBL6111C&N-6-06	2725&AT-N0601	30MHz~1GHz	Oct. 15, 2016	Apr. 29, 2017 ~ Apr. 30, 2017	Oct. 14, 2017	Radiation (03CH06-HY)
EMI Test Receiver	Rohde & Schwarz	ESU26	100472	20Hz~26.5GHz	Dec. 29, 2016	Apr. 29, 2017 ~ Apr. 30, 2017	Dec. 28, 2017	Radiation (03CH06-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1156	1GHz~18GHz	Aug. 05, 2016	Apr. 29, 2017 ~ Apr. 30, 2017	Aug. 04, 2017	Radiation (03CH06-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1850117	1GHz ~ 18GHz	Jun. 22, 2016	Apr. 29, 2017 ~ Apr. 30, 2017	Jun. 21, 2017	Radiation (03CH06-HY)
Antenna Mast	MF	MF-7802	MF780208212	1m~4m	N/A	Apr. 29, 2017 ~ Apr. 30, 2017	N/A	Radiation (03CH06-HY)
Turn Table	INN-CO	DS2000	420/650/00	0-360 degree	N/A	Apr. 29, 2017 ~ Apr. 30, 2017	N/A	Radiation (03CH06-HY)
Amplifier	SONOMA	310N	187231	9kHz~1GHz	Jan. 09, 2017	Apr. 29, 2017 ~ Apr. 30, 2017	Jan. 08, 2018	Radiation (03CH06-HY)



5. Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.70
---	------

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

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 of 95% ($U = 2Uc(y)$)	4.7
---	-----