

FCC Test Report

APPLICANT	:	Motorola Mobility, LLC
EQUIPMENT	:	Mobile Cellular Phone
BRAND NAME	:	Motorola
MODEL NAME	:	10721, 12822
FCC ID	:	IHDT56WB3
STANDARD	:	FCC 47 CFR FCC Part 15 Subpart B
CLASSIFICATION	:	Certification

The product was received on Mar. 31, 2017 and testing was completed on May 08, 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.

Lunis Wu

Reviewed by: Louis Wu / Manager

Approved by: Jones Tsai / Manager



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SPORTON INTERNATIONAL INC. TEL : 886-3-327-3456 FAX : 886-3-328-4978 FCC ID : IHDT56WB3 Page Number: 1 of 23Report Issued Date: May 26, 2017Report Version: Rev. 01Report Template No.: BU5-FD15B Version 1.3



TABLE OF CONTENTS

RE	VISION	I HISTORY	.3
SU	MMAR	Y OF TEST RESULT	.4
1.	GENE	RAL DESCRIPTION	.5
	1.1.	Applicant	.5
	1.2.	Manufacturer	
	1.3.	Product Feature of Equipment Under Test	
	1.4.	Product Specification of Equipment Under Test	.7
	1.5.	Modification of EUT	
	1.6.	Test Location	
	1.7.	Applicable Standards	10
2.	TEST	CONFIGURATION OF EQUIPMENT UNDER TEST	11
	2.1.	Test Mode	11
	2.2.	Connection Diagram of Test System	
	2.3.	Support Unit used in test configuration and system	13
	2.4.	EUT Operation Test Setup	
3.	TEST	RESULT	14
	3.1.	Test of AC Conducted Emission Measurement	14
	3.2.	Test of Radiated Emission Measurement	
4.	LIST	OF MEASURING EQUIPMENT	22
5.	UNCE	RTAINTY OF EVALUATION	23



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC733129-06	Rev. 01	Initial issue of report	May 26, 2017



Report Section	FCC Rule	Description	Limit	Result	Remark
					Under limit
3.1	15.107	AC Conducted Emission	< 15.107 limits	PASS	12.10 dB at
					0.150 MHz
					Under limit
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	9.95 dB at
					169.860 MHz

SUMMARY OF TEST RESULT



1. General Description

1.1. Applicant

Motorola Mobility, LLC

222 W Merchandise Mart Plaza, Suite 1800, Chicago, IL 60654, United States

1.2. Manufacturer

Motorola Mobility, LLC

222 W Merchandise Mart Plaza, Suite 1800, Chicago, IL 60654, United States

1.3. Product Feature of Equipment Under Test

	Product Feature
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	10721, 12822
FCC ID	IHDT56WB3
IMEI Code	IMEI 1: 353312080018478
	IMEI 2: 353312080018486
	CDMA/EV-DO/GSM/EGPRS/WCDMA/HSPA/LTE/NFC
	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	DVT2
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.



Accessory List				
AC Adapter 1	Brand Name : Motorola			
AC Adapter 1	Model Name : SPN5970A			
AC Adapter 2	Brand Name : Motorola			
AC Adapter 2	Model Name : SPN5993A			
AC Adapter 3	Brand Name : Motorola			
AC Adapter 5	Model Name : SPN5978A			
Pottony 1	Brand Name : Motorola			
Battery 1	Model Name : SNN5986A			
Battery 2	Brand Name : Motorola			
Battery 2	Model Name : SNN5897A			
Earphone	Brand Name : Motorola			
Earphone	Model Name : SH38C16618			
USB Cable	Brand Name : Motorola			
	Model Name : SKN6473A			
USB-C Data Cable	Brand Name : Motorola			
	Model Name : SKN6474A			



1.4. Product Specification of Equipment Under Test	1.4.	Product	Specification	of Equipment	Under Test
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Standar	ds-related Product Specification
Tx Frequency	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8 MHz CDMA BC0:824.70 MHz ~ 848.31 MHz CDMA BC1:1851.25 MHz ~ 1908.75 MHz CDMA BC 10: 817.9 MHz ~ 822.9 MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz WCDMA Band IV : 1712.4 MHz ~ 1752.6 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz UCDMA Band II: 1852.4 MHz ~ 1909.3 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 5 : 824.7 MHz ~ 2567.5 MHz LTE Band 12 : 699.7 MHz ~ 715.3 MHz LTE Band 12 : 699.7 MHz ~ 713.5 MHz LTE Band 26 : 814.7 MHz ~ 848.3 MHz LTE Band 26 : 814.7 MHz ~ 848.3 MHz LTE Band 38 : 2572.5 MHz ~ 2617.5 MHz LTE Band 38 : 2572.5 MHz ~ 2652.5 MHz 802.11b/g/n/ac: 2412 MHz ~ 2462 MHz 802.11b/g/n/ac: 2412 MHz ~ 2462 MHz 802.11a/n/ac: 5180 MHz ~ 5240 MHz ; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5720 MHz ; 5745 MHz ~ 2885 MHz Bluetooth: 2402 MHz ~ 2480 MHz NFC : 13.56 MHz



Standards-related Product Specification				
Rx Frequency	$ \begin{array}{l} GSM850: 869.2 \mbox{ MHz} \sim 893.8 \mbox{ MHz} \\ GSM1900: 1930.2 \mbox{ MHz} \sim 1989.8 \mbox{ MHz} \\ CDMA BC0: 869.70 \mbox{ MHz} \sim 893.31 \mbox{ MHz} \\ CDMA BC1: 1931.25 \mbox{ MHz} \sim 1988.75 \mbox{ MHz} \\ CDMA BC10: 862.9 \mbox{ MHz} \sim 867.9 \mbox{ MHz} \\ WCDMA Band \V: 871.4 \mbox{ MHz} \sim 891.6 \mbox{ MHz} \\ WCDMA Band \V: 2112.4 \mbox{ MHz} \sim 2152.6 \mbox{ MHz} \\ WCDMA Band \IV: 2112.4 \mbox{ MHz} \sim 2152.6 \mbox{ MHz} \\ WCDMA Band \IV: 2112.4 \mbox{ MHz} \sim 1987.6 \mbox{ MHz} \\ WCDMA Band \II: 1932.4 \mbox{ MHz} \sim 1987.6 \mbox{ MHz} \\ WCDMA Band \II: 1932.4 \mbox{ MHz} \sim 1987.6 \mbox{ MHz} \\ WCDMA Band \II: 1932.4 \mbox{ MHz} \sim 2152.6 \mbox{ MHz} \\ WCDMA Band \II: 1932.4 \mbox{ MHz} \sim 2152.6 \mbox{ MHz} \\ WCDMA Band \II: 1932.4 \mbox{ MHz} \sim 2154.3 \mbox{ MHz} \\ LTE Band \2: 1930.7 \mbox{ MHz} \sim 2154.3 \mbox{ MHz} \\ LTE Band \4: 2110.7 \mbox{ MHz} \sim 2154.3 \mbox{ MHz} \\ LTE Band \5: 869.7 \mbox{ MHz} \sim 2687.5 \mbox{ MHz} \\ LTE Band \5: 869.7 \mbox{ MHz} \sim 2687.5 \mbox{ MHz} \\ LTE Band \1: 2729.7 \mbox{ MHz} \sim 743.5 \mbox{ MHz} \\ LTE Band \1: 2729.7 \mbox{ MHz} \sim 743.5 \mbox{ MHz} \\ LTE Band \2: 729.7 \mbox{ MHz} \sim 743.5 \mbox{ MHz} \\ LTE Band \2: 5272.5 \mbox{ MHz} \sim 2652.5 \mbox{ MHz} \\ LTE Band \3: 2572.5 \mbox{ MHz} \sim 2652.5 \mbox{ MHz} \\ LTE Band \41: 2547.5 \mbox{ MHz} \sim 2462 \mbox{ MHz} \\ 802.11b/g/nac: 2412 \mbox{ MHz} \sim 2462 \mbox{ MHz} \\ 802.11b/g/nac: 2412 \mbox{ MHz} \sim 2462 \mbox{ MHz} \\ 802.11a/n/ac: \sc{5180 \mbox{ MHz} \sim 5240 \mbox{ MHz} ; \\ 5260 \mbox{ MHz} \sim 5320 \mbox{ MHz} ; \\ 5745 \mbox{ MHz} \sim 2480 \mbox{ MHz} \\ GPS : 1.57542 \mbox{ GHz} \\ Glonass : 1602 \mbox{ MHz} + n \times 0.5625 \mbox{ MHz} \(n=-7,-6,-5,0,,6) \\ NFC : 13.56 \mbox{ MHz} \\end{array}$			
Antenna Type	WWAN : Fixed Internal Antenna WLAN : Fixed Internal Antenna Bluetooth : Fixed Internal Antenna GPS / Glonass : Fixed Internal Antenna NFC : Fixed Internal Antenna			
Type of Modulation	NPC : Pixed internal AntennaGSM: GMSKGPRS: GMSKEDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSKCDMA2000 1xRTT: QPSKCDMA2000 1xEV-DO: QPSK/8PSKWCDMA: QPSK (Uplink)HSDPA: 64QAM (Downlink)HSUPA: QPSK (Uplink)LTE: QPSK / 16QAM / 64QAM802.11b : DSSS (DBPSK / DQPSK / CCK)802.11a/g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)Bluetooth LE : GFSKBluetooth (1Mbps) : GFSKBluetooth (2Mbps) : π /4-DQPSKBluetooth (3Mbps) : 8-DPSKGPS / Glonass : BPSKNFC: ASK			



1.5. Modification of EUT

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

1.6. 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.		
	No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park,		
Test Site Location	Kwei-Shan District, Tao Yuan City, Ta	iwan, R.O.C.	
	TEL: +886-3-327-3456		
	FAX: +886-3-328-4978		
Test Site No	Sporton	Site No.	
Test Site No.	CO05-HY	03CH06-HY	



1.7. Applicable Standards

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

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

Remark:

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



2. Test Configuration of Equipment Under Test

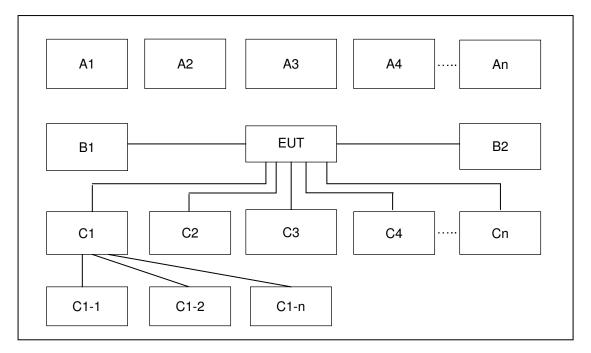
2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction (150 kHz to 30 MHz), radiation (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

Test Items	s	Function Type		
AC Conducted		Mode 1: GSM1900 Idle + Bluetooth Idle + WLAN Idle + Battery 2 + USB Cable (Data Link with Notebook)		
Emission		Mode 2: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + Battery 2 + USB Cable (Data Link with Notebook)		
Radiated Emissions < 1GHz		Mode 1: GSM1900 Idle + Bluetooth Idle + WLAN Idle + Battery 2 + USB Cable (Data Link with Notebook)		
		Mode 2: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + Battery 2 + USB Cable (Data Link with Notebook)		
Radiated Emissions \geq 1GHz		Mode 1: GSM1900 Idle + Bluetooth Idle + WLAN Idle + Battery 2 + USB Cable (Data Link with Notebook)		
Remark:				
1. The v	. The worst case of AC is mode 1; only the test data of this mode was reported.			
2. The v	worst	case of $RE < 1G$ is mode 1; only the test data of this mode was reported.		
3. Data	Link	with Notebook means data application transferred mode between EUT and		
Notel	Notebook.			



2.2. Connection Diagram of Test System



	Test Setup									
No. Wireless Station		Connection Type		Test Mode						
NO.	Wheless 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.	Setup Peripherals	Connection Type	1	2						
C1	Notebook	USB Cable	Х	Х						
C1-1	iPod	USB Cable to C1	Х	Х						
C1-2	AP router	RJ-45 Cable to C1	Х	Х						
C2	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.	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
6.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0 m	N/A
7.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	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. Data application is transferred between Laptop and EUT via USB cable.



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

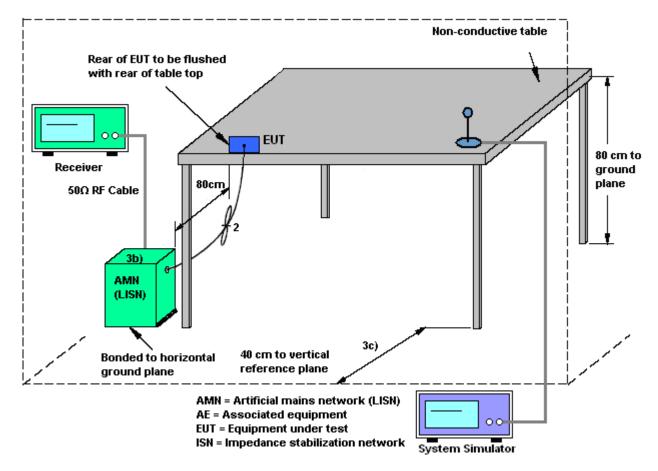
The measuring equipment is listed in the section 4 of this test report.

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.
- Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.



3.1.4 Test Setup





3.1.5 Test Result of AC Conducted Emission

Test Mode :		Mode 1			Temp	erature :		23~24 ℃		
Test Engineer :		Eric Jeng			Relative Humidity :			53~54%		
Test Voltage :		120Vac / 60Hz			Phase :			Line		
		GSM1900 Idle + Bluetooth Idle + WLAN Idle + Battery 2 + USB Cable (Data Link								
Function Ty	/pe :	with Notebook)								
	100 90 80 70 ∧18p ii 90 50 90 90 90 90 90 90 90 90 90 90 90 90 90							22-OP Limit at Main Ports		
	10 0 1	50k 300 400 5	500 80	00 1M	2M Frequer	3M 4M acy in Hz	1 5M 6	8 10M 20M 30M		
	0 1 Resu	50k 300 400 s		00 1M	Frequer	in Hz		8 10M 20M 30M		
Freq	0 1 Resu quency	50k 300 400 50k 300 400 50k 300 400 50k 300 400 50k 50k 50k 50k 50k 50k 50k 50k 50k 5		00 1M	Frequer Corr.	ncy in Hz Margin	Limit			
Freq (N	0 1 Resu	50k 300 400 s			Frequer	in Hz				
Freq (N 0.1)	0 1 Resu quency MHz)	50k 300 400 5 1t : Quasi-Peak Quasi-Peak (dBμV)	Filter	Line	Frequer Corr. (dB)	Margin (dB)	Limit (dBµV)			
Freq (N 0.1	0 1 Resu quency MHz) 50000	50k 300 400 9 It : Quasi-Peak (dBμV) 53.9	Filter	Line L1	Frequer Corr. (dB) 19.6	Margin (dB) 12.1	Limit (dBµV) 66.0			
Free (N 0.1 0.1	0 1 Resu quency MHz) 50000 74000	50k 300 400 ± 50k 300 400 ± 1t : Quasi-Peak (dBμV) 53.9 48.8 48.6 40.9	Filter Off Off	Line L1 L1 L1 L1	Frequer (dB) 19.6 19.5 19.5 19.5	Margin (dB) 12.1 16.0 15.1 20.7	Limit (dBµV) 66.0 64.8			
Free (N 0.1 0.1 0.1 0.1 0.1	0 1 Resu quency MHz) 50000 74000 98000 54000 82000	Sok 300 400 f 50k 300 400 f 50k 300 400 f 50k 300 400 f 1 Quasi-Peak (dBµV) 53.9 48.8 48.6 40.9 36.3	Filter Off Off Off Off	Line L1 L1 L1 L1 L1	Frequer (dB) 19.6 19.5 19.5 19.5 19.5	Margin (dB) 12.1 16.0 15.1 20.7 19.7	Limit (dBµV) 66.0 64.8 63.7 61.6 56.0			
Free (N 0.11 0.11 0.11 0.11 0.21 0.55 3.84	0 1 Resu quency MHz) 50000 74000 98000 54000 82000 46000	Sok 300 400 f 50k 300 400 f It : Quasi-Peak (dBμV) 53.9 48.8 48.6 40.9 36.3 36.6	Filter Off Off Off Off Off	Line L1 L1 L1 L1 L1 L1 L1	Frequer (dB) 19.6 19.5 19.5 19.5 19.5 19.5 19.6	Margin (dB) 12.1 16.0 15.1 20.7 19.7 19.4	Limit (dBµV) 66.0 64.8 63.7 61.6 56.0 56.0			
Free (N 0.1 0.1 0.2 0.5 3.8 6.1	0 1 Resu quency MHz) 50000 74000 98000 54000 82000 46000 90000	Sok 300 400 stress t : Quasi-Peak Quasi-Peak (dBμV) 53.9 48.8 48.6 40.9 36.3 36.6 40.5	Filter Off Off Off Off	Line L1 L1 L1 L1 L1	Frequer (dB) 19.6 19.5 19.5 19.5 19.5	Margin (dB) 12.1 16.0 15.1 20.7 19.7	Limit (dBµV) 66.0 64.8 63.7 61.6 56.0			
Free (N 0.1 0.1 0.1 0.2 0.5 3.8 6.1 Final	0 1 Resu quency MHz) 50000 74000 98000 54000 82000 46000 90000 Resu	50k 300 400 ± 50k 300 400 ± 1 Quasi-Peak (dBμV) 53.9 53.9 48.8 48.6 40.9 36.3 36.6 40.5 40.5 It : Average 1	Filter Off Off Off Off Off	Line L1 L1 L1 L1 L1 L1 L1	Frequer (dB) 19.6 19.5 19.5 19.5 19.5 19.6 19.6	Margin (dB) 12.1 16.0 15.1 20.7 19.7 19.4 19.5	Limit (dBµV) 66.0 64.8 63.7 61.6 56.0 56.0 56.0 60.0			
Free (N 0.1 0.1 0.1 0.2 0.5 3.8 6.1 Final Free	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	50k 300 400 5 t : Quasi-Peak (dBμV) 53.9 48.8 48.6 40.9 36.3 36.6 40.5 t : Average Average	Filter Off Off Off Off Off	Line L1 L1 L1 L1 L1 L1 L1	Frequer (dB) 19.6 19.5 19.5 19.5 19.6 19.6 19.6 Corr.	Margin (dB) 12.1 16.0 15.1 20.7 19.7 19.4 19.5 Margin	Limit (dBµV) 66.0 64.8 63.7 61.6 56.0 56.0 56.0 60.0			
Free (N 0.1 0.1 0.1 0.2 0.5 3.8 6.1 Final Free (N	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	50k 300 400 5 It : Quasi-Peak (dBμV) 53.9 48.8 48.6 40.9 36.3 36.6 40.5 It : Average (dBμV)	Filter Off Off Off Off Off Off Off	Line L1 L1 L1 L1 L1 L1 L1 L1	Frequer (dB) 19.6 19.5 19.5 19.5 19.5 19.6 19.6 19.6 (dB)	Margin (dB) 12.1 16.0 15.1 20.7 19.7 19.4 19.5 Margin (dB)	Limit (dBµV) 66.0 64.8 63.7 61.6 56.0 56.0 56.0 60.0 Limit (dBµV)			
Free (M 0.11 0.11 0.12 0.23 0.55 3.84 6.19 Final Free (M 0.11	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	50k 300 400 ± 50k 300 400 ± 50k 300 400 ± 1 Quasi-Peak (dBµV) 53.9 48.8 48.6 40.9 36.3 36.6 40.5 40.5 It : Average (dBµV) 34.9 34.9	Filter Off Off Off Off Off Off Off Filter	Line L1 L1 L1 L1 L1 L1 L1 L1 L1 Line L1	Frequer (dB) 19.6 19.5 19.5 19.5 19.5 19.5 19.6 19.6 (dB) 19.6	Margin (dB) 12.1 16.0 15.1 20.7 19.7 19.4 19.5 Margin (dB) 21.1	Limit (dBµV) 66.0 64.8 63.7 61.6 56.0 56.0 60.0 Limit (dBµV) 56.0			
Free (N 0.1 0.1 0.1 0.2 0.5 3.8 6.1 Final Free (N 0.1 1 0.1	0 1 Resu quency MHz) 50000 74000 98000 54000 82000 46000 90000 Resu quency MHz) 50000	50k 300 400 5 It : Quasi-Peak (dBμV) 53.9 48.8 48.6 40.9 36.3 36.6 40.5 It : Average (dBμV)	Filter Off Off Off Off Off Off Off	Line L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1	Frequer (dB) 19.6 19.5 19.5 19.5 19.5 19.6 19.6 19.6 (dB)	Margin (dB) 12.1 16.0 15.1 20.7 19.7 19.4 19.5 Margin (dB) 21.1 19.8	Limit (dBµV) 66.0 64.8 63.7 61.6 56.0 56.0 56.0 60.0 Limit (dBµV)			
Free (N 0.1 0.1 0.1 0.1 0.2 0.5 3.8 6.1 Final Free (N 0.1 0.1 1 0.1	0 1 Resu quency MHz) 50000 74000 98000 54000 82000 46000 90000 Resu quency MHz) 50000 74000	50k 300 400 f 50k 300 400 f 50k 300 400 f 1t : Quasi-Peak (dBµV) 53.9 48.8 48.8 48.6 40.9 36.3 36.3 36.6 40.5 40.5 It : Average (dBµV) 34.9 35.0	Filter Off Off Off Off Off Off Off Filter	Line L1 L1 L1 L1 L1 L1 L1 L1 L1 Line L1	Frequer (dB) 19.6 19.5 19.5 19.5 19.5 19.6 19.6 19.6 (dB) 19.6 19.5	Margin (dB) 12.1 16.0 15.1 20.7 19.7 19.4 19.5 Margin (dB) 21.1	Limit (dBµV) 66.0 64.8 63.7 61.6 56.0 56.0 60.0 Limit (dBµV) 56.0 54.8			
Free (N 0.1 0.1 0.1 0.1 0.1 0.2 0.5 3.8 6.1 Final Free (N 0.1 0.1 0.1 0.1 0.1	0 1 1 20000 74000 98000 54000 82000 46000 90000 Resu 2000 Resu 2000 74000 98000	50k 300 400 f 50k 300 400 f 50k 300 400 f 1t : Quasi-Peak (dBµV) 53.9 48.8 48.8 48.6 40.9 36.3 36.6 40.5 It : Average (dBµV) 34.9 35.0 26.5 26.5	Filter Off Off Off Off Off Off Off Filter Off Off Off	Line L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1	Frequer (dB) 19.6 19.5 19.5 19.5 19.5 19.6 19.6 (dB) 19.6 19.5 19.5	Margin (dB) 12.1 16.0 15.1 20.7 19.7 19.4 19.5 Margin (dB) 21.1 19.8 27.2	Limit (dBµV) 66.0 64.8 63.7 61.6 56.0 56.0 60.0 Limit (dBµV) 56.0 54.8 53.7			
Free (M 0.1 0.1 0.1 0.1 0.1 0.1 0.1 Final Free (M 0.1 0.1 0.1 0.1 0.1	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	50k 300 400 f 50k 300 400 f 1t Quasi-Peak (dBμV) 53.9 48.8 48.6 40.9 36.3 36.6 40.5 It Average (dBμV) 34.9 35.0 26.5 25.4	Filter Off Off Off Off Off Off Filter Off Off Off Off	Line L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1 L1	Frequer (dB) 19.6 19.5 19.5 19.5 19.5 19.6 19.6 (dB) 19.6 19.5 19.5 19.5	Margin (dB) 12.1 16.0 15.1 20.7 19.7 19.4 19.5 Margin (dB) 21.1 19.8 27.2 26.2	Limit (dBµV) 66.0 64.8 63.7 61.6 56.0 56.0 56.0 60.0 Limit (dBµV) 56.0 54.8 53.7 51.6			

SPORTON INTERNATIONAL INC. TEL : 886-3-327-3456 FAX : 886-3-328-4978 FCC ID : IHDT56WB3 Page Number: 16 of 23Report Issued Date: May 26, 2017Report Version: Rev. 01Report Template No.: BU5-FD15B Version 1.3



Mode :	Mode 1			Tempe	rature :		23~24 ℃
Engineer :	Eric Jeng			Relativ	ve Humi	dity :	53~54%
Voltage :	120Vac / 60Hz			Phase :			Neutral
tion Trans .	GSM1900 Idle	+ Blue	tooth I	dle + W	/LAN Id	le + Ba	ttery 2 + USB Cab
tion Type :	with Notebook						
10 9 8 7 11 9 8 7 1 9 9 9 8 7 7 1 9 9 8 7 7 10 9 9 8 7 7 10 9 8 7 7 10 9 9 8 7 7 10 9 9 8 7 7 10 9 9 8 7 7 10 9 9 8 7 7 10 9 9 8 7 7 10 9 9 8 7 7 10 9 9 8 7 7 10 9 9 8 7 7 10 9 9 8 7 7 10 9 9 8 7 7 10 9 9 8 8 7 7 10 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		×.		<u></u>			22-OP Limit at Main Po 22-Ave Limit at Main Po
	0	500 80	00 1M	2M		1 5M 6	8 10M 20M 30I
1	0		00 1M	2M Frequenc		1 5M 6	8 10M 20M 30I
final Resu	150k 300 400 Ilt : Quasi-Peak		00 1M	Frequence Corr.	cy in Hz Margin	Limit	1
Final Resu Frequenc (MHz)	0- 150k 300 400 Ilt : Quasi-Peak y Quasi-Peak (dBµV)	Filter	Line	Frequence Corr. (dB)	Margin (dB)	Limit (dBµV)	1
Final Resu Frequenc (MHz) 0.150000	ult : Quasi-Peak (dBµV) 52.2	Filter	Line	Corr. (dB) 19.5	Margin (dB) 13.8	Limit (dBµV) 66.0	1
Final Resu Frequenc (MHz) 0.150000 0.158000	ult : Quasi-Peak (dBµV) 52.2 52.7	Filter Off Off	Line N N	Corr. (dB) 19.5 19.5	Margin (dB) 13.8 12.9	Limit (dBµV) 66.0 65.6	1
Final Resu Frequenc (MHz) 0.150000 0.158000 0.198000	ult : Quasi-Peak (dBμV) 52.2 52.7 48.7	Filter Off Off	Line N N N	Corr. (dB) 19.5 19.5 19.5	Margin (dB) 13.8 12.9 15.0	Limit (dBµV) 66.0 65.6 63.7	1
Final Resu Frequenc (MHz) 0.150000 0.158000 0.198000 0.230000	0 150k 300 400 1150k 300 400 400 1150k 300 400 1150k 300 400 1150k 300 400 1150k 300 4000	Filter Off Off Off Off	Line N N N N	Corr. (dB) 19.5 19.5 19.5 19.5	Margin (dB) 13.8 12.9 15.0 20.6	Limit (dBµV) 66.0 65.6 63.7 62.4	1
Final Resu Frequenc (MHz) 0.150000 0.198000 0.230000 0.526000	0 300 400 150k 300 400 v Quasi-Peak (dBμV) 52.2 52.7 48.7 41.8 38.5	Filter Off Off Off Off Off	Line N N N N	Corr. (dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5	Margin (dB) 13.8 12.9 15.0 20.6 17.5	Limit (dBµV) 66.0 65.6 63.7 62.4 56.0	1
inal Resu Frequenc (MHz) 0.150000 0.158000 0.198000 0.230000 0.526000 3.846000	0 300 400 150k 300 400 Ilt : Quasi-Peak (dBμV) 52.2 52.7 52.7 48.7 41.8 38.5 35.8 35.8	Filter Off Off Off Off Off Off	Line N N N N N N	Corr. (dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5	Margin (dB) 13.8 12.9 15.0 20.6 17.5 20.2	Limit (dBµV) 66.0 65.6 63.7 62.4 56.0 56.0	1
inal Resu Frequenc (MHz) 0.150000 0.158000 0.198000 0.230000 0.526000 3.846000 5.734000	O 300 400 1150k 300 400 Illt : Quasi-Peak (dBμV) 52.2 52.7 52.7 48.7 41.8 38.5 35.8 35.8 38.9 38.9	Filter Off Off Off Off Off	Line N N N N	Corr. (dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5	Margin (dB) 13.8 12.9 15.0 20.6 17.5	Limit (dBµV) 66.0 65.6 63.7 62.4 56.0	1
Final Resu Frequenc (MHz) 0.150000 0.158000 0.198000 0.230000 0.526000 3.846000 5.734000 Final Resu	0 300 400 Ilt: Quasi-Peak (dBμV) 52.2 52.7 48.7 41.8 38.5 35.8 35.8 38.9 Ilt: Average	Filter Off Off Off Off Off Off Off	Line N N N N N N N	Corr. (dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5	Margin (dB) 13.8 12.9 15.0 20.6 17.5 20.2 21.1	Limit (dBµV) 66.0 65.6 63.7 62.4 56.0 56.0 60.0	1
Final Resu Frequenc (MHz) 0.150000 0.158000 0.198000 0.230000 0.526000 3.846000 5.734000 Final Resu Frequenc	0 300 400 150k 300 400 Ilt : Quasi-Peak (dBμV) 52.2 52.7 48.7 41.8 38.5 35.8 35.8 38.9 38.9 Ilt : Average Average	Filter Off Off Off Off Off Off	Line N N N N N N	Corr. (dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.6 19.6 19.6	Margin (dB) 13.8 12.9 15.0 20.6 17.5 20.2 21.1 Margin	Limit (dBµV) 66.0 65.6 63.7 62.4 56.0 56.0 60.0 Limit	
Final Resu Frequenc (MHz) 0.150000 0.198000 0.198000 0.230000 0.526000 3.846000 5.734000 5.734000 Final Resu Frequenc (MHz)	0 300 400 150k 300 400 Ilt : Quasi-Peak (dBμV) 52.2 52.7 48.7 41.8 38.5 35.8 35.8 38.9 38.9 Ilt : Average (dBμV) 40.1	Filter Off Off Off Off Off Off Off Off Filter	Line N N N N N N Line	Corr. (dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.6 19.6 19.6 19.6 19.6	Margin (dB) 13.8 12.9 15.0 20.6 17.5 20.2 21.1 Margin (dB)	Limit (dBµV) 66.0 65.6 63.7 62.4 56.0 56.0 56.0 60.0 Limit (dBµV)	
Final Resu Frequenc (MHz) 0.150000 0.158000 0.198000 0.230000 0.230000 0.526000 3.846000 5.734000 Final Resu Frequenc (MHz) 0.150000	0 300 400 150k 300 400 Ilt : Quasi-Peak (dBµV) 52.2 52.7 48.7 41.8 38.5 35.8 35.8 38.9 11t : Average (dBµV) 9 Average (dBµV)	Filter Off Off Off Off Off Off Off Off Filter	Line N N N N N N Line N	Corr. (dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.6 19.6 19.6 19.6 19.6 19.5 19.5 19.5 19.5 19.5 19.6 19.6 19.6 19.5 19.5	Margin (dB) 13.8 12.9 15.0 20.6 17.5 20.2 21.1 Margin (dB) 19.4	Limit (dBµV) 66.0 65.6 63.7 62.4 56.0 56.0 60.0 Limit (dBµV) 56.0	
Final Resu Frequenc (MHz) 0.150000 0.158000 0.198000 0.230000 0.230000 0.526000 3.846000 5.734000 Final Resu Frequenc (MHz) 0.150000 0.158000	It Quasi-Peak (dBμV) 52.2 52.7 48.7 41.8 38.5 35.8 35.8 38.9 It<: Average (dBμV) 36.6 35.8 35.8	Filter Off Off Off Off Off Off Off Off Filter Off	Line N N N N N N Line N N	Corr. (dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.6 19.6 19.6 19.5 19.5 19.5 19.5 19.5 19.5	Cy in Hz Margin (dB) 13.8 12.9 15.0 20.6 17.5 20.2 21.1 21.1 Margin (dB) 19.4 19.8	Limit (dBµV) 66.0 65.6 63.7 62.4 56.0 56.0 60.0 Limit (dBµV) 56.0 55.6	
Final Resu Frequenc (MHz) 0.150000 0.158000 0.158000 0.230000 0.526000 3.846000 5.734000 Final Resu Frequenc (MHz) 0.150000 0.158000 0.198000	0 300 400 1150k 300 400 111 : Quasi-Peak (dBμV) 52.2 52.7 48.7 41.8 38.5 35.8 35.8 35.8 38.9 IIIt : Average (dBμV) 36.6 35.8 30.8	Filter Off Off Off Off Off Off Off Off Filter	Line N N N N N N Line N N N N	Corr. (dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.6 19.6 19.6 19.5 19.6 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5	Margin (dB) 13.8 12.9 15.0 20.6 17.5 20.2 21.1 Margin (dB) 19.4 19.8 22.9	Limit (dBµV) 66.0 65.6 63.7 62.4 56.0 56.0 60.0 Limit (dBµV) 56.0 55.6 53.7	
Final Resu Frequenc (MHz) 0.150000 0.158000 0.198000 0.230000 0.526000 3.846000 5.734000 Final Resu Frequenc (MHz) 0.150000 0.158000 0.198000 0.230000	0 300 400 1150k 300 400 111: Quasi-Peak (dBμV) 52.2 52.7 48.7 41.8 38.5 35.8 35.8 38.9 Ilt: Average (dBμV) 36.6 35.8 30.8 24.7	Filter Off Off Off Off Off Off Off Off Filter	Line N N N N N N Line N N N N N N N	Corr. (dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.6 19.6 19.6 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5	Margin (dB) 13.8 12.9 15.0 20.6 17.5 20.2 21.1 Margin (dB) 19.4 19.8 22.9 27.7	Limit (dBµV) 66.0 65.6 63.7 62.4 56.0 56.0 60.0 Limit (dBµV) 56.0 55.6 53.7 52.4	
Final Resu Frequenc (MHz) 0.150000 0.158000 0.158000 0.230000 0.526000 3.846000 5.734000 Final Resu Frequenc (MHz) 0.150000 0.158000 0.198000	It Quasi-Peak (dBμV) 52.2 52.7 48.7 41.8 38.5 35.8 35.8 38.9 It<: Average (dBμV) 36.6 35.8 30.8 24.7 28.5	Filter Off Off Off Off Off Off Off Off Filter	Line N N N N N N Line N N N N	Corr. (dB) 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.6 19.6 19.6 19.5 19.6 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5	Margin (dB) 13.8 12.9 15.0 20.6 17.5 20.2 21.1 Margin (dB) 19.4 19.8 22.9	Limit (dBµV) 66.0 65.6 63.7 62.4 56.0 56.0 60.0 Limit (dBµV) 56.0 55.6 53.7	



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

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

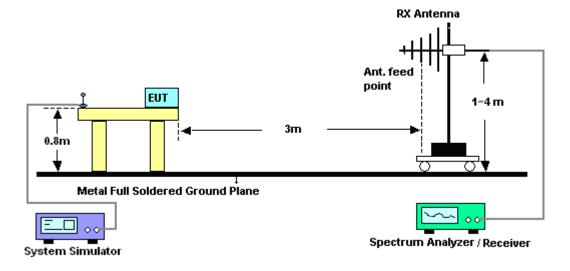
3.2.3. Test Procedures

- 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.
- 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 μ V/m) = 20 log Emission level (μ V/m)
- 9. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level

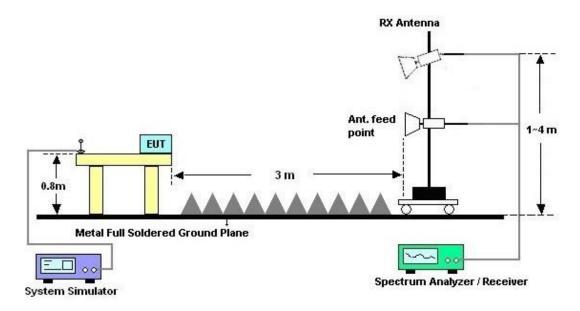


3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz





3.2.5. Test Result of Radiated Emission

Test Mode :	Mode 1			Temp	erature	:	20~2	3°C			
Test Engineer :	Donny Ta	ng		Relati	ve Hun	nidity :	50~5	50~53%			
Test Distance :	3m		Polarization :			Horiz	Horizontal				
Eurotion Turo	GSM1900) Idle + Blu	letooth	Idle + V	VLAN I	dle + Ba	attery 2	2 + USE	3 Cabl	e (Data Link	
Function Type :	with Note										
Remark :	#8 is syst	em simulat	or signa	al which	I which can be ignored.						
97	(dBuV/m)								Date: 201	7-05-08	
87.3											
77.6											
									FCC CL	-6dB	
67.9											
58.2	8						_	FCC	CLASS-	3 (AVG)	
48.5	- 7			10		11		12	13	<u>-6dB</u>	
38.8			9								
29.1	4										
19.4											
9.7											
0 <mark>1 1</mark> 30		2624.	52		ncy (MHz)	7812.		10406.		13000	
Site	: 030	СН06-НУ		Treque							
Condition		CLASS-B 3	m 9120D	_1156_1	60817 -	IORIZO	NTAL				
Project Power		3129-06 om System									
Memo	: Mo										
	: SD	to NB									
	Freq Le	Over evel Limit			ntenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark	
	MHz dBu	IV/m dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		
1	66.45 24	.27 -15.73	40.00	42.22	12.00	1.86	31.81			Peak	
		.53 -12.97			15.04		31.75	100		Peak	
		.13 -13.87		45.36 28.81	16.38	2.11	31.72 31.61			Peak	
).95 -16.05).37 -15.63		28.84	29.43 29.57	3.32 3.38	31.42			Peak Peak	
		.98 -14.02		28.84	31.03	3.06	30.95			Peak	
	906.00 44	.11 -29.89	74.00	71.94	26.42	6.15	60.40			Peak	
		.77		81.30	26.56	6.31				Peak	
		.20 -33.80		59.97	30.89	10.65				Peak	
		.47 -31.53		55.80 53.66	34.63 37.90	11.17 11.99	59.13 59.80			Peak Peak	
		5.57 -28.43		51.31	41.26	13.52				Peak	
		.69 -26.31						100		Peak	

SPORTON INTERNATIONAL INC. TEL : 886-3-327-3456 FAX : 886-3-328-4978 FCC ID : IHDT56WB3



Test Mode :	Mode 1			Temperature :			20~2	20~23°C				
Test Engineer :	Donny Tang				Relative Humidity :			50~5	50~53%			
Test Distance :	3m				Polarization :			Vertic	Vertical			
	GSM1	900 Idl	e + Blu	etooth	Idle + V	VLAN I	dle + E	attery 2	2 + USI	3 Cabl	e (Data Li	
Function Type :	GSM1900 Idle + Bluetooth Idle + WLAN Idle + Battery 2 + USB Cable (Data Lir with Notebook)											
Remark :			simulat	or signa	al which	ı can be	e ignore	ed.				
97	l (dBuV/m))								Date: 201	7-05-08	
07.2												
87.3												
77.6										FCC CL	ASS-B	
											-6dB	
67.9												
58.2		7							FCC	CLASS-	B (AVG)	
48.5										13	-6dB	
40.0	-	8	9		-	10	11	12	2			
38.8												
2	46											
29.1												
19.4			_									
9.7												
0												
0 <mark>30</mark>		2624		52			7812.		10406.		13000	
				52		ncy (MHz)	7812.		10406.		13000	
0 ₃₀ Site Condition		03CH06	6-НУ		Freque	ncy (MHz)		 NL	10406.		13000	
Site	n :	03CH06	5-НУ ASS-B 3	52 m 9120D	Freque	ncy (MHz)		NL	10406.		13000	
Site Condition	۱ : :	03CH06 FCC CL/	5-HY 455-B 3 -06		Freque	ncy (MHz)		AL	10406.		13000	
Site Conditior Project	י ו י י	03CH00 FCC CL/ 733129 From Sy Mode 1	5-HY ASS-B 31 -06 ystem		Freque	ncy (MHz)		AL	10406.		13000	
Site Conditior Project Power	י ו י י	03CH06 FCC CL/ 733129 From Sy	6-HY ASS-B 3 -06 ystem NB	m 9120D	Freque	ncy (MHz) 60817 V	/ERTIC/				13000	
Site Conditior Project Power	۱ : : :	03CH06 FCC CL/ 733129 From Sy Mode 1 SD to N	6-HY ASS-B3 -O6 ystem NB Over	m 9120D Limit	Freque _1156_1 ReadA	ncy (MHz) 60817 V ntenna	/ERTICA Cable	Preamp	10406. A/Pos	T/Pos		
Site Conditior Project Power	۱ : : :	03CH00 FCC CL/ 733129 From Sy Mode 1	6-HY ASS-B3 -O6 ystem NB Over	m 9120D Limit	Freque	ncy (MHz) 60817 V ntenna	/ERTICA Cable			T/Pos	13000 Remark	
Site Conditior Project Power	1 : : : Freq	03CH06 FCC CL/ 733129 From Sy Mode 1 SD to N	5-HY ASS-B3 -06 ystem NB Over Limit	m 9120D Limit	Freque _1156_1 ReadA Level	ncy (MHz) 60817 V ntenna Factor	/ERTICA Cable	Preamp		T/Pos deg		
Site Condition Project Power Memo	n : : : Freq MHz	03CH00 FCC CL/ 733129 From Sy Mode 1 SD to N Level dBuV/m	6-HY ASS-B 3 -06 ystem NB Over Limit dB	m 9120D Limit Line dBuV/m	Freque _1156_1 ReadA Leve1 	ncy (MHz) 60817 V ntenna Factor dB/m	Cable Loss	Preamp Factor dB	A/Pos 	deg	Remark	
Site Condition Project Power Memo 	1 : : : : : : : : : : : : : : : : : : :	03CH00 FCC CL/ 733129 From Sy Mode 1 SD to N Level dBuV/m 26.68	6-HY ASS-B 3 -06 ystem NB Over Limit dB -13.32	m 9120D Limit Line	Freque _1156_1 	ncy (MHz) 60817 V ntenna Factor dB/m	Cable Loss	Preamp Factor dB 31.86	A/Pos	deg		
Site Condition Project Power Memo 1 2 3	1 : : : : : : : : : : : : : : : : : : :	03CH00 FCC CL/ 733129 From Sy Mode 1 SD to N Level dBuV/m 26.68 28.63 33.55	6-HY ASS-B 3 -06 ystem NB Over Limit -13.32 -14.87 -9.95	m 9120D Limit Line dBuV/m 40.00 43.50 43.50	Freque _1156_1 	ncy (MHz) 60817 V ntenna Factor dB/m 21.15	Cable Loss dB 1.89 2.02 2.06	Preamp Factor dB 31.86 31.76 31.77	A/Pos 	deg	Remark Peak	
Site Condition Project Power Memo 1 2 3 4	1 : : : : : : : : : : : : : :	03CH00 FCC CL/ 733129 From Sy Mode 1 SD to N Level dBuV/m 26.68 28.63 33.55 29.88	6-HY ASS-B 3 -06 ystem NB Over Limit -13.32 -14.87 -9.95 -16.12	m 9120D Limit Line dBuV/m 40.00 43.50 43.50 46.00	Freque 	ncy (MHz) 60817 V ntenna Factor dB/m 21.15 17.05 15.48 28.87	Cable Loss dB 1.89 2.02 2.06 3.34	Preamp Factor dB 31.86 31.76 31.77 31.74	A/Pos 100	deg 190 	Remark Peak Peak Peak Peak Peak	
Site Condition Project Power Memo 1 2 3 4 5	1 : Freq MHz 35.94 111.54 169.86 822.90 885.90	03CH00 FCC CL/ 733129 From Sy Mode 1 SD to N Level dBuV/m 26.68 28.63 33.55 29.88 31.08	6-HY ASS-B 3 -06 ystem NB Over Limit -13.32 -14.87 -9.95 -16.12 -14.92	m 9120D Limit Line dBuV/m 40.00 43.50 43.50 46.00 46.00	Freque 	ncy (MHz) 60817 V ntenna Factor dB/m 21.15 17.05 15.48 28.87 29.29	Cable Loss dB 1.89 2.02 2.06 3.34 3.37	Preamp Factor dB 31.86 31.76 31.77 31.74 31.49	A/Pos cm 100 	deg 190 	Remark Peak Peak Peak Peak Peak Peak	
Site Condition Project Power Memo 1 2 3 4 5 6	1 : Freq MHz 35.94 111.54 169.86 822.90 885.90 942.60	03CH00 FCC CL/ 733129 From Sy Mode 1 SD to N Level dBuV/m 26.68 28.63 33.55 29.88 31.08 31.46	6-HY ASS-B 3 -06 ystem NB Over Limit -13.32 -14.87 -9.95 -16.12 -14.92 -14.54	m 9120D Limit Line dBuV/m 40.00 43.50 43.50 46.00	Freque 	ntenna Factor dB/m 21.15 17.05 15.48 28.87 29.29 30.80	Cable Loss dB 1.89 2.02 2.06 3.34 3.37 3.10	Preamp Factor dB 31.86 31.76 31.77 31.74 31.49 31.06	A/Pos 100	deg 190 	Remark Peak Peak Peak Peak Peak Peak Peak	
Site Condition Project Power Memo 1 2 3 4 5 6 7 1	1 : Freq MHz 35.94 111.54 169.86 822.90 885.90	03CH00 FCC CL/ 733129 From Sy Mode 1 SD to N Level dBuV/m 26.68 28.63 33.55 29.88 31.08 31.46 53.19	6-HY ASS-B 3 -06 ystem NB Over Limit -13.32 -14.87 -9.95 -16.12 -14.92 -14.54	m 9120D Limit Line dBuV/m 40.00 43.50 43.50 46.00 46.00	Freque 	ncy (MHz) 60817 V ntenna Factor dB/m 21.15 17.05 15.48 28.87 29.29	Cable Loss dB 1.89 2.02 2.06 3.34 3.37 3.10	Preamp Factor dB 31.86 31.76 31.77 31.74 31.49 31.06 60.40	A/Pos cm 100 	deg 190 	Remark Peak Peak Peak Peak Peak Peak	
Site Condition Project Power Memo 1 2 3 4 5 6 7 1 8 2 9 3	Freq Hz 35.94 111.54 169.86 822.90 885.90 942.60 942.60 960.00 2064.00 202.00	03CH00 FCC CL/ 733129 From Sy Mode 1 SD to N Level dBuV/m 26.68 28.63 33.55 29.88 31.08 31.46 53.19 44.37 43.09	6-HY ASS-B 3 -06 ystem NB Over Limit -13.32 -14.87 -9.95 -16.12 -14.92 -14.54 -29.63 -30.91	m 9120D Limit Line dBuV/m 40.00 43.50 43.50 46.00 46.00 74.00 74.00	Freque 	ntenna Factor dB/m 21.15 17.05 15.48 28.87 29.29 30.80 26.56 26.76 28.69	Cable Loss dB 1.89 2.02 2.06 3.34 3.37 3.10 6.31 6.42 8.03	Preamp Factor dB 31.86 31.76 31.77 31.74 31.49 31.06 60.40 60.40 60.97	A/Pos cm 100 	deg 190 	Remark Peak Peak Peak Peak Peak Peak Peak Pea	
Site Condition Project Power Memo 1 2 3 4 5 6 7 1 8 2 9 3 10 6	Treq Freq MHz 35.94 111.54 169.86 822.90 885.90 942.60 960.00 2064.00 212.00 2494.00	03CH00 FCC CL/ 733129 From Sy Mode 1 SD to N Level dBuV/m 26.68 28.63 33.55 29.88 31.08 31.46 53.19 44.37 43.09 42.49	6-HY ASS-B 3 -06 ystem NB Over Limit -13.32 -14.87 -9.95 -16.12 -14.92 -14.54 -29.63 -30.91 -31.51	m 9120D Limit Line dBuV/m 40.00 43.50 43.50 43.50 46.00 46.00 74.00 74.00 74.00	Freque 	ntenna Factor dB/m 21.15 17.05 15.48 28.87 29.29 30.80 26.56 26.76 28.69 35.57	Cable Loss dB 1.89 2.02 2.06 3.34 3.37 3.10 6.31 6.42 8.03 12.21	Preamp Factor dB 31.86 31.76 31.77 31.74 31.49 31.06 60.40 60.40 60.97 59.87	A/Pos cm 100 	deg 190 	Remark Peak Peak Peak Peak Peak Peak Peak Pea	
Site Condition Project Power Memo 1 2 3 4 5 6 7 1 8 2 9 3 10 6 11 7	Treq Freq MHz 35.94 111.54 169.86 822.90 885.90 942.60 960.00 2064.00 212.00 2494.00	03CH00 FCC CL/ 733129 From Sy Mode 1 SD to N Level dBuV/m 26.68 28.63 33.55 29.88 31.08 31.46 53.19 44.37 43.09 42.49 43.90	6-HY ASS-B 3 -06 ystem NB Over Limit -13.32 -14.87 -9.95 -16.12 -14.92 -14.54 -29.63 -30.91 -31.51 -30.10	m 9120D Limit Line dBuV/m 40.00 43.50 43.50 46.00 46.00 74.00 74.00	Freque 	ntenna Factor dB/m 21.15 17.05 15.48 28.87 29.29 30.80 26.56 26.76 28.69	Cable Loss dB 1.89 2.02 2.06 3.34 3.37 3.10 6.31 6.42 8.03	Preamp Factor dB 31.86 31.76 31.77 31.74 31.49 31.06 60.40 60.40 60.97	A/Pos cm 100 	deg 190 	Remark Peak Peak Peak Peak Peak Peak Peak Pea	

SPORTON INTERNATIONAL INC. TEL : 886-3-327-3456 FAX : 886-3-328-4978 FCC ID : IHDT56WB3 Page Number: 21 of 23Report Issued Date: May 26, 2017Report Version: Rev. 01Report Template No.: BU5-FD15B Version 1.3



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	May 06, 2017	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI 7	100724	9kHz~7GHz	Aug. 30, 2016	May 06, 2017	Aug. 29, 2017	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 29, 2016	May 06, 2017	Nov. 28, 2017	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Dec. 06, 2016	May 06, 2017	Dec. 05, 2017	Conduction (CO05-HY)
Bilog Antenna	Schaffner	CBL6111C&N- 6-06	2725&AT-N060 1	30MHz~1GHz	Oct. 15, 2016	May 08, 2017	Oct. 14, 2017	Radiation (03CH06-HY)
EMI Test Receiver	Rohde & Schwarz	ESU26	100472	20Hz~26.5GHz	Dec. 29, 2016	May 08, 2017	Dec. 28, 2017	Radiation (03CH06-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1156	1GHz~18GHz	Aug. 05, 2016	May 08, 2017	Aug. 04, 2017	Radiation (03CH06-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1850117	1GHz ~ 18GHz	Jun. 22, 2016	May 08, 2017	Jun. 21, 2017	Radiation (03CH06-HY)
Antenna Mast	MF	MF-7802	MF780208212	1m~4m	N/A	May 08, 2017	N/A	Radiation (03CH06-HY)
Turn Table	INN-CO	DS2000	420/650/00	0-360 degree	N/A	May 08, 2017	N/A	Radiation (03CH06-HY)
Amplifier	SONOMA	310N	187231	9kHz~1GHz	Jan. 09, 2017	May 08, 2017	Jan. 08, 2018	Radiation (03CH06-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Sep. 02, 2016	May 08, 2017	Sep. 01, 2017	Radiation (03CH06-HY)



5. Uncertainty of Evaluation

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

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

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

Measuring Uncertainty for a Level of	3.90
Confidence of 95% (U = 2Uc(y))	3.90