

FCC RF Test Report

APPLICANT	:	Sony Mobile Communications Inc.
EQUIPMENT	:	GSM/WCDMA/LTE Phone + Bluetooth, DTS/UNII
		a/b/g/n/ac, ANT+, and NFC
BRAND NAME	:	Sony
FCC ID	:	PY7-PM0913
STANDARD	:	FCC Part 15 Subpart C §15.225
CLASSIFICATION	:	(DXX) Low Power Communication Device Transmitter

The testing was completed on Sep. 10, 2015. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures 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: Joseph Lin / Supervisor

moelsar



Approved by: Jones Tsai / Manager

SPORTON INTERNATIONAL INC.

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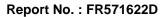




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APPENDIX B. TEST RESULTS OF CONDUCTED TEST ITEMS

- B.1.Test Result of 20dB Spectrum Bandwidth
- B.2 Test Result of Frequency Stability

APPENDIX C. TEST RESULTS OF RADIATED TEST ITEMS

- C.1 Test Result of Field Strength of Fundamental Emissions
- C.2 Results of Radiated Emissions (9 kHz~30MHz)
- C.3 Results of Radiated Emissions (30MHz~1GHz)



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR571622D	Rev. 01	Initial issue of report	Oct. 08, 2015



SUMMARY OF THE TEST RESULT

Applied Standard: 47 CFR FCC Part 15 Subpart C					
Part	FCC Rule	Description of Test	Result	Under Limit	
2.4	15 207		0	1.70 dB at	
3.1	15.207	AC Power Line Conducted Emissions	Complies	13.558 MHz	
2.2	15 225(a)/b)/a)	Field Strength of Fundamental Emissions	0	64.67 dB at	
3.2	3.2 15.225(a)(b)(c)	Field Strength of Fundamental Emissions	Complies	13.560 MHz	
2.2	2.1049	20dB Spectrum Bandwidth	Complian		
3.3 -		99% OBW Spectrum Bandwidth	Complies	-	
3.4 15.225(d) 15.209		Dedicted Engineer	Complian	9.27 dB at	
		Radiated Emissions	Complies	40.530 MHz	
3.5	15.225(e)	Frequency Stability	Complies	-	
3.6	15.203	Antenna Requirements	Complies	-	

Remark: The FCC ID: PY7-PM0911 and FCC ID: PY7-PM0913 is similar device, in this report all the test result are referred to PY7-PM0911, Sporton Report No: FR571621D.

Test Items	Uncertainty	Remark	
AC Power Line Conducted Emissions	±2.26dB	Confidence levels of 95%	
Radiated Emissions (30MHz~1000MHz)	±4.8dB	Confidence levels of 95%	



1. GENERAL INFORMATION

1.1 Applicant

Sony Mobile Communications Inc.

Nya Vattentornet, 22188 Lund, Sweden

1.2 Manufacturer

Sony Mobile Communications Inc.

1-8-15 Konan, Minato-ku, Tokyo, 108-0075, Japan

1.3 **Product Details**

Items	Description
Channel Number	1
20dBW	2.64kHz
99%OBW	2.24kHz

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

EUT Information List					
IMEI	HW Version	SW Version	S/N	Performed Test Item	
004402455447874	A	32.0.A.0.323	CB5A27SPBX	RF Conducted Measurement Radiated Emission AC Conducted Emission	



Accessory List				
	Model No. : UCH20			
	Type No. : AC-0061-US			
AC Adapter	S/N :			
	5815W22500089 (for Radiated Spurious Emission)			
	5815W22500112 (for Conducted Emission)			
	Model No. : MDR-NC750			
Earphone	Type No. : AG-0020			
	Model No. : UCB11			
	Type No. : AI-0120			
USB Cable	S/N :			
	1015W02400014C (for Radiated Spurious Emission)			
	1522A7370000074 (for Conducted Emission)			

Note:

- 1. Above EUT list and accessory list used are electrically identical per declared by manufacturer.
- 2. Above the accessories list are used to exercise the EUT during test.
- 3. For other wireless features of this EUT, test report will be issued separately.

1.4 Modification of EUT

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

1.5 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1022 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.,	No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park,			
Test Site Location	Kwei-Shan District, Tao	Yuan City, Taiwan, R.O.O	C.		
	TEL: +886-3-3273456 /	ГЕL: +886-3-3273456 / FAX: +886-3-3284978			
Teet Site Ne	Sporton Site No.				
Test Site No.	TH03-HY	CO05-HY	03CH07-HY		
Test Engineer	Danny Chen Derreck Chen Wei Chen				
Temperature	22~24°C 23~25°C 21~24°C				
Relative Humidity	53~55% 58~61% 56~58%				

Note: The test site complies with ANSI C63.4 2009 requirement.



1.6 Applicable Standards

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

- FCC Part 15 Subpart C §15.225
- ANSI C63.10-2009

1.7 Test Modes

Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

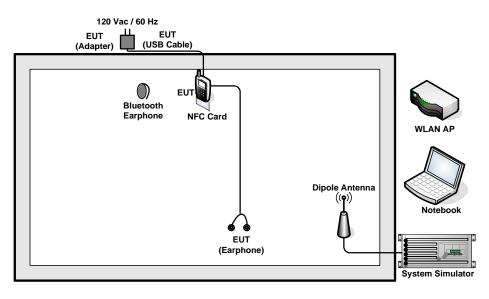
Test Items				
AC Power Line Conducted Emissions	Field Strength of Fundamental Emissions			
20dB Spectrum Bandwidth	Frequency Stability			
Radiated Emissions 9kHz~30MHz	Radiated Emissions 30MHz~1GHz			
Note:				
1. The EUT was programmed to be in continuously transmitting mode.				
2. The ancillary equipment, NFC card, is used to make the EUT (NFC) continuously transmit at				

13.56MHz and is placed around 3 cm gap to the EUT.

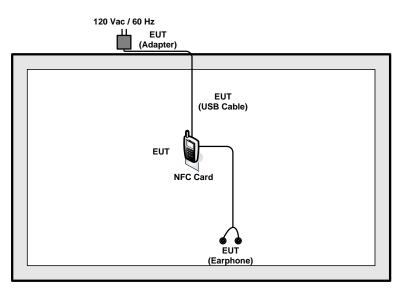


1.8 Test Configurations

<AC Conducted Emissions>



<For Fundamental Emissions and Mask and Radiated Emissions Measurement>





1.9 Table for Supporting Units

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	WLAN AP	D-Link	DIR-628	KA2DIR628A2	N/A	Unshielded, 1.8 m
3.	Bluetooth Earphone	Sony	SBH20	PY7-RD0010	Unshielded, 0.75m	N/A
4.	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
5.	NFC Card	Metro Taipei	Easy Card	N/A	N/A	N/A
6.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A

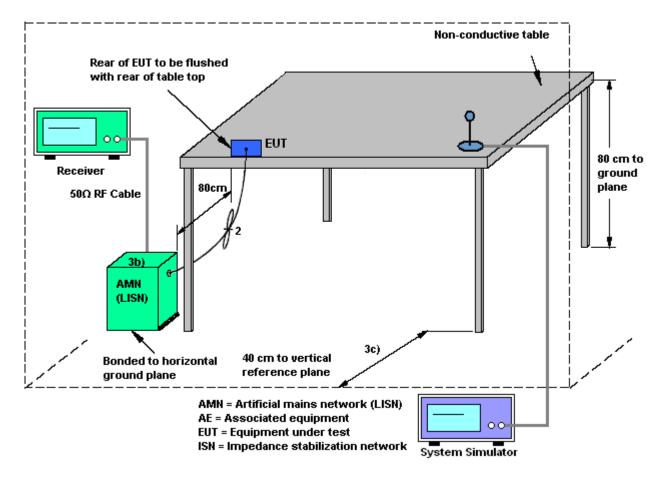


2. CONDUCTED EMISSION TEST

2.1 Measuring Instruments

See list of measuring instruments of this test report.

2.2 Test setup



2.3 Test Result of Conducted Emission Test

Please refer to Appendix A.



2.4 AC Power Line Conducted Emissions Measurement

2.4.1 Limit

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 (dBµV)			
(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.

2.4.2 Test Procedures

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it 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. CONDUCTED TEST ITEMS

3.1 Measuring Instruments

See list of measuring instruments of this test report.

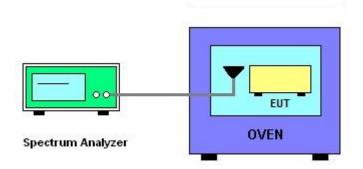
3.2 Test Setup

3.2.1 20dB and 99% OBW Spectrum Bandwidth



Spectrum Analyzer

3.2.2 Frequency Stability



3.3 Test Result of Conducted Test Items

Please refer to Appendix B.



3.4 20dB and 99% OBW Spectrum Bandwidth Measurement

3.4.1 Limit

Intentional radiators must be designed to ensure that the 20dB and 99% emission bandwidth in the specific band 13.553~13.567MHz.

3.4.2 Test Procedures

- 1. The spectrum analyzer connected via a receive antenna placed near the EUT in peak Max hold mode.
- 2. The resolution bandwidth of 1 kHz and the video bandwidth of 3 kHz were used.
- 3. Measured the spectrum width with power higher than 20dB below carrier.
- 4. Measured the 99% OBW.

3.5 Frequency Stability Measurement

3.5.1 Limit

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% (100ppm) of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

3.5.2 Test Procedures

- 1. The spectrum analyzer connected via a receive antenna placed near the EUT.
- 2. EUT have transmitted signal and fixed channelize.
- 3. Set the spectrum analyzer span to view the entire emissions bandwidth.
- 4. Set RBW = 1 kHz, VBW = 3 kHz with peak detector and maxhold settings.
- 5. The fc is declaring of channel frequency. Then the frequency error formula is $(fc-f)/fc \times 10^6$ ppm and the limit is less than ±100ppm.
- 6. Extreme temperature rule is -20°C~50°C.



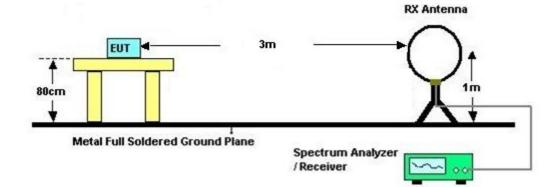
4. RADIATED TEST ITEMS

4.1 Measuring Instruments

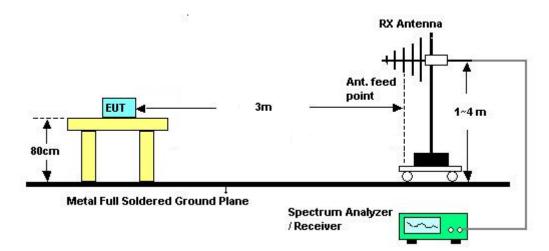
See list of measuring instruments of this test report.

4.2 Test Setup

4.2.1 For radiated emissions below 30MHz



4.2.2 For radiated emissions above 30MHz



4.3 Test Result of Radiated Test Items

Please refer to Appendix C.

4.4 Field Strength of Fundamental Emissions and Mask Measurement

4.4.1 Limit

Rules and specifications		FCC CFR 47 Part	15 section 15.225	
Description	Compliance with the	ne spectrum mask is	tested with RBW se	et to 9kHz.
Freq. of Emission	Field Strength	Field Strength	Field Strength	Field Strength
(MHz)	(µV/m) at 30m	(dBµV/m) at 30m	(dBµV/m) at 10m	(dBµV/m) at 3m
1.705~13.110	30	29.5	48.58	69.5
13.110~13.410	106	40.5	59.58	80.5
13.410~13.553	334	50.5	69.58	90.5
13.553~13.567	15848	84.0	103.08	124.0
13.567~13.710	334	50.5	69.58	90.5
13.710~14.010	106	40.5	59.58	80.5
14.010~30.000	30	29.5	48.58	69.5

4.4.2 Test Procedures

- Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the loop receiving antenna mounted antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the receiving antenna was fixed at one meter above ground to find the maximum emissions field strength.
- 4. For Fundamental emissions, use the receiver to measure QP reading.
- 5. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
- 6. Compliance with the spectrum mask is tested with RBW set to 9kHz.

Note: Emission level (dB μ V/m) = 20 log Emission level (μ V/m).



4.5 Radiated Emissions Measurement

4.5.1 Limit

The field strength of any emissions which appear outside of 13.110 ~14.010MHz band shall not exceed the general radiated emissions limits.

Frequencies	Field Strength	Measurement Distance
(MHz)	(µV/m)	(meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

4.5.2 Measuring Instrument Setting

The following table is the setting of receiver.

Receiver Parameter	Setting
Attenuation	Auto
Frequency Range: 9kHz~150kHz	RBW 200Hz for QP
Frequency Range: 150kHz~30MHz	RBW 9kHz for QP
Frequency Range: 30MHz~1000MHz	RBW 120kHz for Peak

Note: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.



4.5.3 Test Procedures

- Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
- 7. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. Antenna Requirements

4.5.4 Limit

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited.

4.5.5 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.



5. LIST OF MEASURING EQUIPMENT

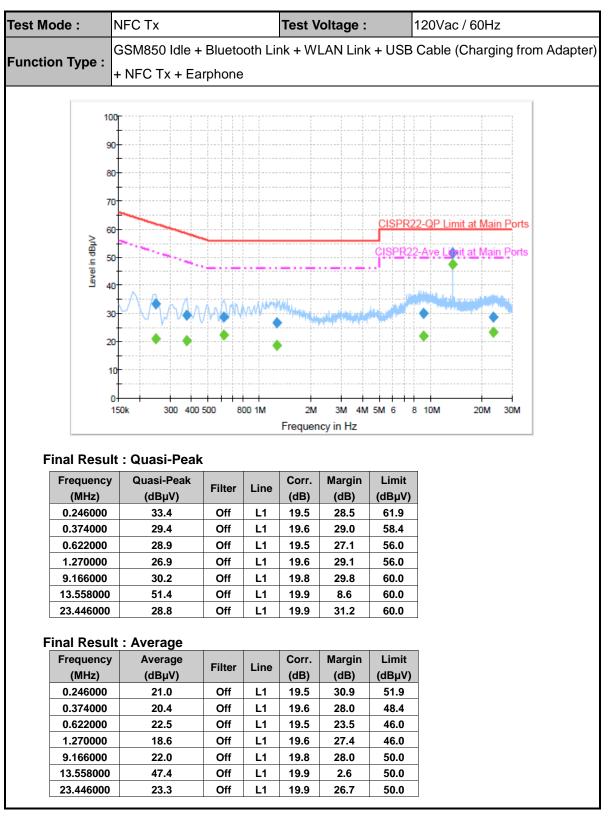
Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	Rohde & Schwarz	FSP30	101329	9kHz~30GHz	Jun. 24, 2015	Sep. 10, 2015	Jun. 23, 2016	Conducted (TH03-HY)
RF cable	WOKEN	S05	S05-130708- 22	N/A	Jan. 21, 2015	Sep. 10, 2015	Jan. 20, 2016	Conducted (TH03-HY)
Hygrometer	Testo	608-H1	34893241	N/A	May 04, 2015	Sep. 10, 2015	May 03, 2016	Conducted (TH03-HY)
Temperature Chamber	ESPEC	SU-641	92013721	-30°C ~70°C	Dec. 01, 2014	Sep. 10, 2015	Nov. 30, 2015	Conducted (TH03-HY)
EMI Test Receiver	Rohde & Schwarz	ESCS 30	100356	9kHz – 2.75GHz	Dec. 01, 2014	Sep. 08, 2015	Nov. 30, 2015	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Apr. 20, 2015	Sep. 08, 2015	Apr. 19, 2016	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 02, 2014	Sep. 08, 2015	Dec. 01, 2015	Conduction (CO05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Sep. 08, 2015	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 07, 2015	Sep. 08, 2015	Jan. 06, 2016	Conduction (CO05-HY)
Bilog Antenna	Schaffner	CBL6111C	2726	30MHz ~ 1GHz	Sep. 27, 2014	Sep. 09, 2015	Sep. 26, 2015	Radiation (03CH07-HY)
Hygrometer	Testo	608-H1	34897197	N/A	May 04, 2015	Sep. 09, 2015	May 03, 2016	Radiation (03CH07-HY)
Loop Antenna	TESEQ	HLA 6120	31244	9 kHz~30 MHz	Feb. 02, 2015	Sep. 09, 2015	Feb. 01, 2016	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz-1000MH z	Mar. 12, 2015	Sep. 09, 2015	Mar. 11, 2016	Radiation (03CH07-HY)
Signal Analyzer	Rohde & Schwarz	FSV 30	101749	10Hz~30GHz	Mar. 10, 2015	Sep. 09, 2015	Mar. 09, 2016	Radiation (03CH07-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI 7	100724	9kHz~7GHz	Aug. 25, 2015	Sep. 09, 2015	Aug. 24, 2016	Radiation (03CH07-HY)
Controller	ChainTek	Chaintek 3000	N/A	Control Turn table	N/A	Sep. 09, 2015	N/A	Radiation (03CH07-HY)
Controller	Max-Full	MF7802	MF78020836 8	Control Ant Mast	N/A	Sep. 09, 2015	N/A	Radiation (03CH07-HY)
Antenna Mast	Max-Full	MFA520BS	N/A	1m~4m	N/A	Sep. 09, 2015	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 degree	N/A	Sep. 09, 2015	N/A	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY84209521	1GHz~40GHz	Dec. 04, 2014	Sep. 09, 2015	Dec. 03, 2015	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY84209521	9kHz~1GHz	Dec. 04, 2014	Sep. 09, 2015	Dec. 03, 2015	Radiation (03CH07-HY)
Test Software	N/A	E3	6.2009-8-24 (sporton)	N/A	N/A	Sep. 09, 2015	N/A	Radiation (03CH07-HY)
Filter	Wainwright	WHK20 /1000C7/40S S	SN2	20M High Pass	Oct. 01, 2014	Sep. 09, 2015	Sep. 30, 2015	Radiation (03CH07-HY)

Note: Test equipment calibration is traceable to the procedure of ISO17025.

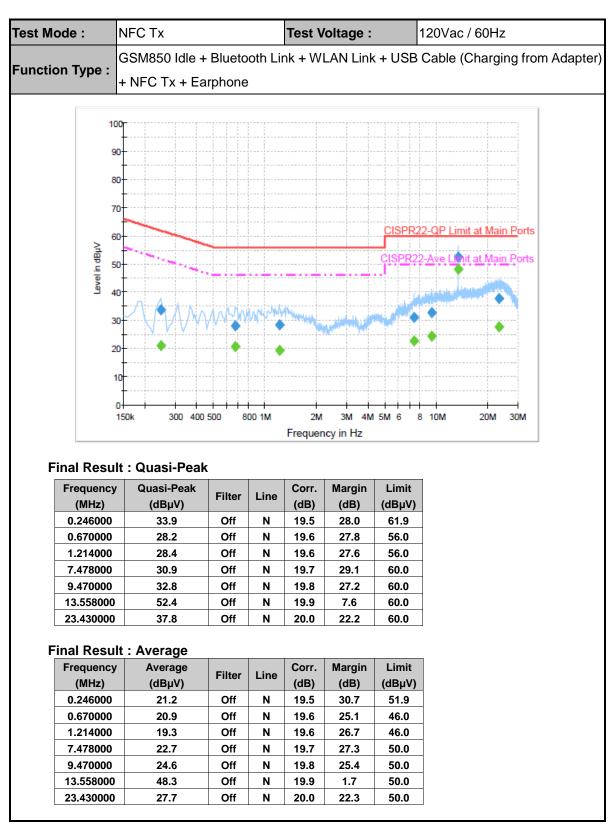
SPORTON INTERNATIONAL INC. TEL : 886-3-327-3456 FAX : 886-3-328-4978 FCC ID : PY7-PM0913



Appendix A. Test Results of Conducted Emission Test





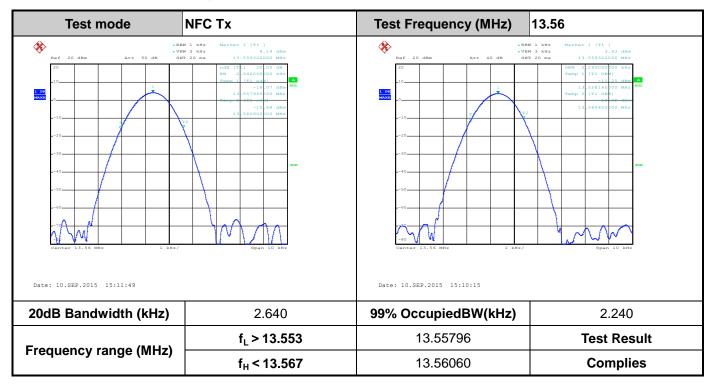


Remark: 13.558MHz is the NFC RF fundamental signal.



Appendix B. Test Results of Conducted Test Items

B.1 Test Result of 20dB Spectrum Bandwidth

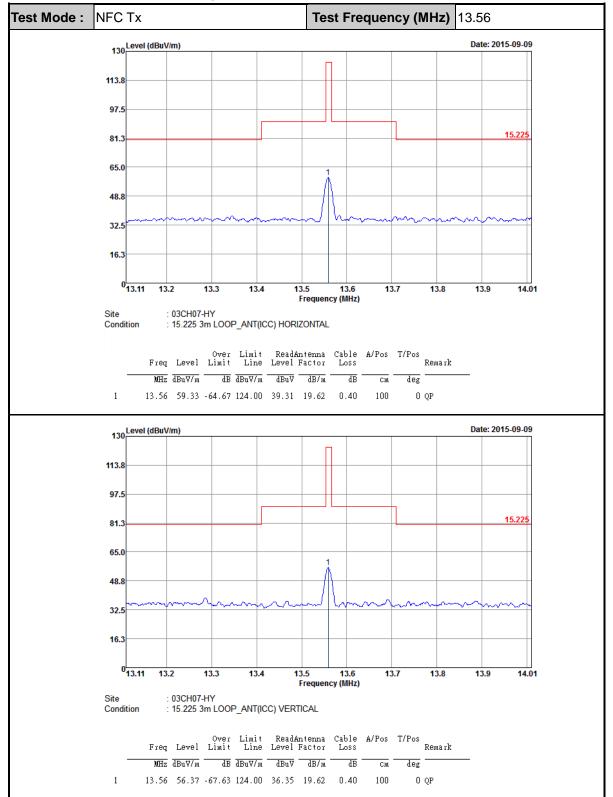


Voltage vs. Freque	ncy Stability	Temperature vs. I	Frequency Stability
Voltage (Vac)	Measurement Frequency (MHz)	Temperature (°C)	Measurement Frequency (MHz)
120	13.559280	-20	13.559320
102	13.559280	-10	13.559340
138	13.559280	0	13.559340
		10	13.559320
		20	13.559300
		30	13.559280
		40	13.559260
		50	13.559240
Max.Deviation (MHz)	-0.000720	Max.Deviation (MHz)	-0.000760
Max.Deviation (ppm)	-53.0973	Max.Deviation (ppm)	-56.0472
Limit	FS < ±100 ppm	Limit	FS < ±100 ppm
Test Result	PASS	Test Result	PASS

B.2 Test Result of Frequency Stability



Appendix C. Test Results of Radiated Test Items



C.1 Test Result of Field Strength of Fundamental Emissions

Note: All NFC's spurious emissions are below 20dB of limits.

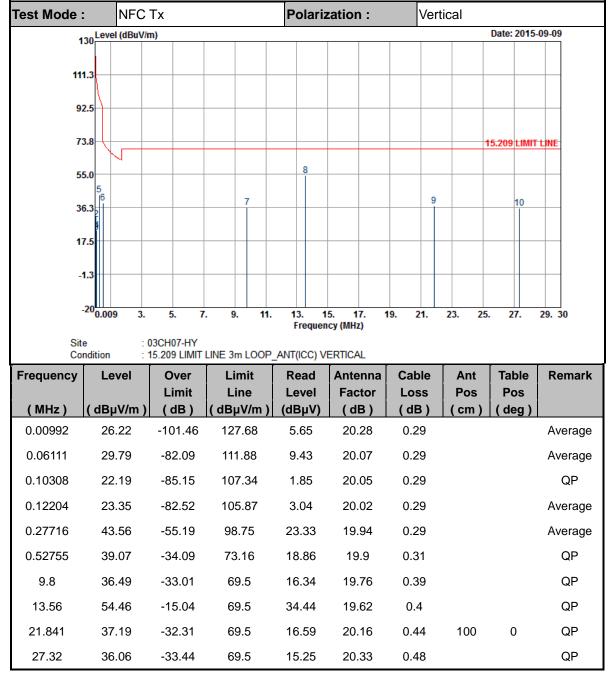
SPORTON INTERNATIONAL INC. TEL : 886-3-327-3456 FAX : 886-3-328-4978 FCC ID : PY7-PM0913 Page Number : C1 of C5 Report Issued Date : Oct. 08, 2015 Report Version : Rev. 01 Report Template No.: BU5-FR15CNFC Version 1.0



Test Mode	:	NFC	Гх		Polaria	zation :	Ho	rizontal		
	130 Level	(dBuV/m	1)						Date: 2015	-09-09
	50									
11	1.3									
9	2.5									
7	3.8								15.209 LIMIT	LINE
-					8					
5	5.0 56									
3	6.3			7		9				10
	7.5									
1	<i>(</i> .5									
-	1.3									
	-200.009	3.	5. 1	7. 9. 1 ⁴		15. 17. ·	19. 21.	23. 25	5. 27.	29. 30
Sit		: 0	3CH07-HY	7. 9. 11	Freque	ncy <mark>(</mark> MHz)	19. 21.	23. 25	5. 27.	29. 30
Sit	e	: 0 : 1	3CH07-HY 5.209 LIMIT Over	LINE 3m LOO	Frequer P_ANT(ICC) H Read	IORIZONTAL	Cable	Ant	Table	29. 30 Remark
Sit Co Frequency	ndition	: 0 : 1 /el	3CH07-HY 5.209 LIMIT Over Limit	LINE 3m LOOI Limit Line	Frequer P_ANT(ICC) H Read Level	IORIZONTAL Antenna Factor	Cable Loss	Ant Pos	Table Pos	
Sit Co	e ndition Lev (dBµ\	: 0 : 1 //m)	3CH07-HY 5.209 LIMIT Over	LINE 3m LOO Limit Line (dBµV/m	Frequer P_ANT(ICC) H Read Level	IORIZONTAL	Cable	Ant	Table	Remar
Sit Co Frequency (MHz) 0.01135	te Indition Lev (dBµ\ 27.7	: 0 : 1 rel //m)	3CH07-HY 5.209 LIMIT Over Limit (dB) -99.34	LINE 3m LOO Limit Line (dBµV/m 126.51	Frequer P_ANT(ICC) H Read Level) (dBµV) 6.6	Antenna Factor (dB) 20.28	Cable Loss (dB) 0.29	Ant Pos	Table Pos	Remar
Sit Co Frequency (MHz) 0.01135 0.06084	te ndition Lev (dBµ\ 27.7 35.8	: 0 : 1 rel //m) 17 33	3CH07-HY 5.209 LIMIT Over Limit (dB) -99.34 -76.09	LINE 3m LOO Limit Line (dBµV/m) 126.51 111.92	Frequer P_ANT(ICC) H Read Level) (dBμV) 6.6 15.47	Antenna Factor (dB) 20.28 20.07	Cable Loss (dB) 0.29 0.29	Ant Pos	Table Pos	Remark Average Average
Sit Co Frequency (MHz) 0.01135 0.06084 0.09468	e Indition Lev (dBµ\ 27.7 35.8 20.8	: 0 : 1 rel //m) 17 33 32	3CH07-HY 5.209 LIMIT Over Limit (dB) -99.34 -76.09 -87.26	LINE 3m LOO Limit Line (dBµV/m) 126.51 111.92 108.08	Frequer P_ANT(ICC) H Read Level) (dBμV) 6.6 15.47 0.48	Antenna Factor (dB) 20.28 20.07 20.05	Cable Loss (dB) 0.29 0.29 0.29	Ant Pos	Table Pos	Remark Average Average QP
Sit Co Frequency 0.01135 0.06084 0.09468 0.1218	e Indition Lev (dBµ\ 27.1 35.8 20.8 28.3	: 0 : 1 'el //m) 17 33 32 39	3CH07-HY 5.209 LIMIT Over Limit (dB) -99.34 -76.09 -87.26 -77.5	LINE 3m LOO Limit Line (dBµV/m) 126.51 111.92 108.08 105.89	Frequer P_ANT(ICC) H Read Level) (dBμV) 6.6 15.47 0.48 8.08	Antenna Factor (dB) 20.28 20.07 20.05 20.02	Cable Loss (dB) 0.29 0.29 0.29 0.29 0.29	Ant Pos	Table Pos	Remark Average Average QP Average
Sit Co Frequency 0.01135 0.06084 0.09468 0.1218 0.26152	e indition (dBµ\ 27.* 35.8 20.8 28.3 42.6	: 0 : 1 rel //m) 17 33 32 39 52	3CH07-HY 5.209 LIMIT Limit (dB) -99.34 -76.09 -87.26 -77.5 -56.63	LINE 3m LOOU Limit Line (dBµV/m) 126.51 111.92 108.08 105.89 99.25	Frequer P_ANT(ICC) H Read Level (dBµV) 6.6 15.47 0.48 8.08 22.38	Antenna Factor (dB) 20.28 20.07 20.05 20.02 19.95	Cable Loss (dB) 0.29 0.29 0.29 0.29 0.29 0.29	Ant Pos (cm)	Table Pos (deg)	Remark Average Average Average Average
Sit Co Frequency 0.01135 0.06084 0.09468 0.1218	e Indition Lev (dBµ\ 27.1 35.8 20.8 28.3	: 0 : 1 rel //m) 17 33 32 39 52	3CH07-HY 5.209 LIMIT Over Limit (dB) -99.34 -76.09 -87.26 -77.5	LINE 3m LOO Limit Line (dBµV/m) 126.51 111.92 108.08 105.89	Frequer P_ANT(ICC) H Read Level) (dBμV) 6.6 15.47 0.48 8.08	Antenna Factor (dB) 20.28 20.07 20.05 20.02	Cable Loss (dB) 0.29 0.29 0.29 0.29 0.29	Ant Pos	Table Pos	Remark Average Average QP Average
Sit Co Frequency 0.01135 0.06084 0.09468 0.1218 0.26152	e indition (dBµ\ 27.* 35.8 20.8 28.3 42.6	: 0 : 1 rel //m) 17 33 32 39 52 52	3CH07-HY 5.209 LIMIT Limit (dB) -99.34 -76.09 -87.26 -77.5 -56.63	LINE 3m LOOU Limit Line (dBµV/m) 126.51 111.92 108.08 105.89 99.25	Frequer P_ANT(ICC) H Read Level (dBµV) 6.6 15.47 0.48 8.08 22.38	Antenna Factor (dB) 20.28 20.07 20.05 20.02 19.95	Cable Loss (dB) 0.29 0.29 0.29 0.29 0.29 0.29	Ant Pos (cm)	Table Pos (deg)	Remar Average Average Average Average
Sit Co Frequency 0.01135 0.06084 0.09468 0.1218 0.26152 0.52755	e ndition (dBµ\ 27. 35.8 20.8 28.3 42.6 41.5	: 0 : 1 rel //m) 17 33 32 39 62 54 4	3CH07-HY 5.209 LIMIT Over Limit (dB) -99.34 -76.09 -87.26 -77.5 -56.63 -31.22	LINE 3m LOO Limit Line (dBµV/m 126.51 111.92 108.08 105.89 99.25 73.16	Frequer P_ANT(ICC) H Read Level (dBµV) 6.6 15.47 0.48 8.08 22.38 21.73	Antenna Factor (dB) 20.28 20.07 20.05 20.02 19.95 19.9	Cable Loss (dB) 0.29 0.29 0.29 0.29 0.29 0.29 0.29 0.31	Ant Pos (cm)	Table Pos (deg)	Remar Average Average Average Average QP
Sit Co Frequency 0.01135 0.06084 0.09468 0.1218 0.26152 0.52755 9.44	e ndition (dBµ\ 27.7 35.8 20.8 28.3 42.6 41.5 36.	: 0 : 1 rel //m) 17 33 32 39 52 54 4 16	3CH07-HY 5.209 LIMIT Over Limit (dB) -99.34 -76.09 -87.26 -77.5 -56.63 -31.22 -33.1	LINE 3m LOO Limit Line (dBµV/m) 126.51 111.92 108.08 105.89 99.25 73.16 69.5	Frequer P_ANT(ICC) Η Read Level (dBμV) 6.6 15.47 0.48 8.08 22.38 21.73 16.26	Antenna Factor (dB) 20.28 20.07 20.05 20.02 19.95 19.76	Cable Loss (dB) 0.29 0.29 0.29 0.29 0.29 0.29 0.29 0.31 0.38	Ant Pos (cm)	Table Pos (deg)	Remark Average Average Average QP QP QP

C.2 Results of Radiated Emissions (9 kHz~30MHz)





Note:

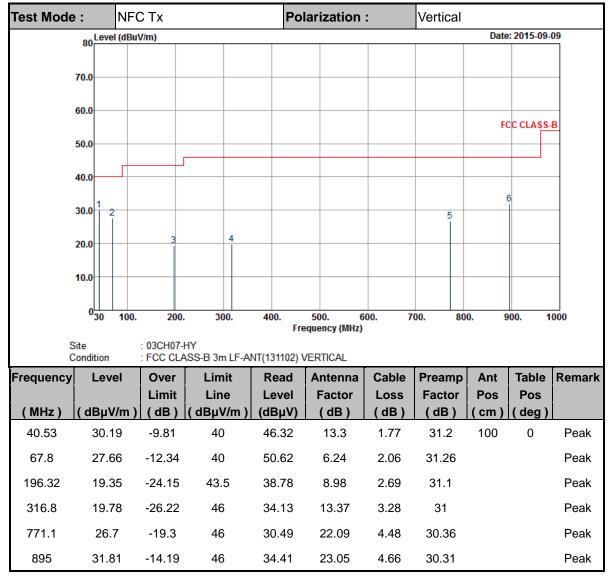
- 1. 13.56 MHz is fundamental signal which can be ignored.
- 2. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
- 3. Distance extrapolation factor = 40 log (specific distance / test distance) (dB);
- 4. Limit line = specific limits $(dB\mu V)$ + distance extrapolation factor.



est Mode	;	NFC	СТх		Ро	larization	:	Horizon	tal		
	80	el (dBu)	V/m)						Date	e: 2015-09-	09
	70.0										_
	60.0								F	CC CLASS-	B
	50.0										_
	40.0]							_
	30.0		2	3				5		6	
	20.0					4					_
	10.0										
	0 <mark>30</mark>	100.	200	. 300.	400. Fr	500. 6 equency (MHz)	00. 7	700. 80	0. 9	900. 1	000
	⁰ 30 Site Condition		: 03CH07-		Fr	equency (MHz)	600. 7	/00. 80	0. 9	900. 1	000
requency	Site Condition	/el	: 03CH07- : FCC CL Over Limit	HY ASS-B 3m LF-A Limit Line	Fr NT(131102) Read Level	HORIZONTAL Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	
C	Site Condition	vel V/m)	: 03CH07- : FCC CL Over	-HY ASS-B 3m LF-A Limit	Fr NT(131102) Read	equency (MHz) HORIZONTAL Antenna	Cable	Preamp	Ant	Table	Rema
requency (MHz)	Site Condition Lev (dBµ	vel <u>V/m)</u> 73	: 03CH07- : FCC CL Over Limit (dB)	HY ASS-B 3m LF-A Limit Line (dBµV/m)	Fr NT(131102) Read Level (dBµV)	equency (MHz) HORIZONTAL Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Rema
requency (MHz) 40.53	Site Condition Lev (dBµ 30.	vel <u>V/m)</u> 73 62	: 03CH07- : FCC CL/ Over Limit (dB) -9.27	HY ASS-B 3m LF-A Limit Line (dBµV/m) 40	Fr NT(131102) Read Level (dBµV) 46.86	HORIZONTAL Antenna Factor (dB) 13.3	Cable Loss (dB) 1.77	Preamp Factor (dB) 31.2	Ant Pos (cm)	Table Pos (deg)	Rema Peak Peak
requency (MHz) 40.53 183.09	Site Condition Lev (dBµ 30. 28.	vel V/m) 73 62 95	: 03CH07 : FCC CL Over Limit (dB) -9.27 -14.88	HY ASS-B 3m LF-A Limit Line (dBµV/m) 40 43.5	Fr NT(131102) Read Level (dBµV) 46.86 48.05	HORIZONTAL Antenna Factor (dB) 13.3 8.84	Cable Loss (dB) 1.77 2.69	Preamp Factor (dB) 31.2 30.96	Ant Pos (cm)	Table Pos (deg)	Rema Peak Peak Peak
requency (MHz) 40.53 183.09 244.11	Condition Lev (dBµ 30. 28. 24.	vel 73 62 95 02	: 03CH07: FCC CL Over Limit (dB) -9.27 -14.88 -21.05	HY ASS-B 3m LF-A Limit Line (dBµV/m) 40 43.5 46	Fn NT(131102) Read Level (dBµV) 46.86 48.05 41.19	HORIZONTAL Antenna Factor (dB) 13.3 8.84 11.8	Cable Loss (dB) 1.77 2.69 2.96	Preamp Factor (dB) 31.2 30.96 31	Ant Pos (cm)	Table Pos (deg)	Reman Peak Peak Peak Peak Peak

C.3 Results of Radiated Emissions (30MHz~1GHz)





Note:

- 1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
- 2. Emission level (dB μ V/m) = 20 log Emission level (μ V/m).
- 3. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor= Level.