FCC RF Test Report

APPLICANT : Motorola Mobility LLC EQUIPMENT : Mobile Cellular Phone

BRAND NAME : Motorola

MODEL NAME : XT1926-6, XT1926-7

FCC ID : IHDT56WL4

STANDARD : FCC Part 15 Subpart C §15.225

CLASSIFICATION: (DXX) Low Power Communication Device Transmitter

The product was received on Dec. 27, 2017 and testing was completed on Jul. 12, 2017. We, Sporton International (Kunshan) 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 (Kunshan) Inc., the test report shall not be reproduced except in full.



Approved by: James Huang / Manager

Sporton International (Kunshan) Inc.

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Sporton International (Kunshan) Inc.

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REVISION HISTORY

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REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR7D2702D	Rev. 01	Initial issue of report	Feb. 01, 2018

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SUMMARY OF THE TEST RESULT

	Applied Standard: 47 CFR FCC Part 15 Subpart C					
Part	FCC Rule	Description of Test	Result	Remark		
3.1	15.207	AC Power Line Conducted Emissions	Complies	Under limit 11.60 dB at 0.150MHz		
	15.215(c)	20dB Spectrum Bandwidth	Complies	-		
3.2	-	99% OBW Spectrum Bandwidth	Complies	-		
3.3	15.225(e)	Frequency Stability	Complies	-		
3.4	15.225(a)(b)(c)	Field Strength of Fundamental Emissions	Complies	53.98 dBuV/m at 13.560 MHz		
3.5	15.225(d) 15.209	Radiated Emissions	Complies	Under limit 3.06 dB at 40.670 MHz for Quasi-Peak		
3.6	15.203	Antenna Requirements	Complies	-		

Test Items	Uncertainty	Remark
AC Power Line Conducted Emissions	±2.3dB	Confidence levels of 95%
Radiated Emissions (30MHz~1000MHz)	±4.8dB	Confidence levels of 95%

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1. GENERAL INFORMATION

1.1 Applicant

Motorola Mobility LLC

222 W, Merchandise Mart Plaza, Chicago IL 60654 USA

1.2 Manufacturer

Motorola Mobility LLC

222 W, Merchandise Mart Plaza, Chicago IL 60654 USA

1.3 Product Feature of Equipment Under Test

	Product Feature
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT1926-6, XT1926-7
FCC ID	IHDT56WL4
EUT supports Radios application	GSM/GPRS/EGPRS/WCDMA/HSPA/DC-HSDPA/ HSPA+ /LTE/NFC WLAN 2.4GHz 802.11b/g/n HT20/ WLAN 5GHz 802.11a/n HT20/HT40/ WLAN 5GHz 802.11ac VHT20/VHT40/VHT80/ Bluetooth v3.0 + EDR/Bluetooth v4.0 LE/ Bluetooth v4.1 LE/Bluetooth v4.2 LE / Bluetooth v5.0 LE
SN/IMEI Code	Conducted: 351853090015717/351853090015725 Conduction: NTEL1B0009 Radiation: 351853090016053/351853090016061
HW Version DVT1B	
SW Version	evert_n-userdebug 8.0.0 OPW27.88 1825 intcfg,test-keys
EUT Stage Identical Prototype	

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Remark:

- The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
- 2. There are two types of EUT: sample 1 (XT1926-7) is dual SIM card, sample 2 (XT1926-6) is single SIM card. Except the SIM card slot, all the others are the same. The difference has no influence on RF test, we only choose sample 1 to perform full test.

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1.4 Product Specification of Equipment Under Test

Standards-related Product Specification			
Tx/Rx Frequency Range	13.553 ~ 13.567MHz		
Channel Number	1		
20dBW	2.49 KHz		
99%OBW	2.11 KHz		
Antenna Type	Loop Antenna		
Type of Modulation	ASK		

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

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1.5 Specification of Accessory

Specification of Accessory							
	Brand Name Motorola (Salom) Model Name SC-22						
AC Adapter 1(US)	Power Rating		J.	or 9Vdc,1600mA or 12Vdc,1200mA			
	Brand Name	Motorola (Salom)		SC-23			
AC Adapter 1(EU)	Power Rating	, ,		or 9Vdc,1600mA or 12Vdc,1200mA			
	Brand Name	Motorola (Salom)		SC-24			
AC Adapter 1(UK)	Power Rating	` ,		or 9Vdc,1600mA or 12Vdc,1200mA			
	Brand Name	Motorola (Salom)		SC-25			
AC Adapter 1(IN)	Power Rating	` ,		or 9Vdc,1600mA or 12Vdc,1200mA			
	Brand Name	Motorola (Salom)		SC-26			
AC Adapter 1(AU)	Power Rating	, ,		or 9Vdc,1600mA or 12Vdc,1200mA			
	Brand Name	Motorola (Salom)		SC-27			
AC Adapter 1(AR)	Power Rating	, ,		or 9Vdc,1600mA or 12Vdc,1200mA			
	Brand Name	Motorola (Chenyang)		SC-22			
AC Adapter 2(US)	Power Rating	, , , ,		or 9Vdc,1600mA or 12Vdc,1200mA			
	Brand Name	Motorola (Chenyang)	Model Name	SC-23			
AC Adapter 2(EU)	Power Rating			or 9Vdc,1600mA or 12Vdc,1200mA			
	Brand Name	Motorola (Chenyang)		SC-24			
AC Adapter 2(UK)	Power Rating	, , , ,		or 9Vdc,1600mA or 12Vdc,1200mA			
	Brand Name	Motorola (Chenyang)		SC-25			
AC Adapter 2(IN)	Power Rating	, , , ,	5Vdc,3000mA	or 9Vdc,1600mA or 12Vdc,1200mA			
	Brand Name	Motorola (Chenyang)		SC-26			
AC Adapter 2(AU)	Power Rating	· · ·	5Vdc,3000mA	or 9Vdc,1600mA or 12Vdc,1200mA			
	Brand Name	Motorola (chenyang)	Model Name	SC-27			
AC Adapter 2(AR)	Power Rating	I/P: 100-240 Vac, 500mA, O/P:	5Vdc,3000mA	or 9Vdc,1600mA or 12Vdc,1200mA			
	Brand Name	Motorola (ATL)	Model Name	JT40			
Battery	Power Rating	3.8Vdc,3200mAh	Туре	Li-ion Polymer			
	Brand Name	Motorola (Jiahe)	Model Name	LS-118M-12			
Earphone 1	Signal Line Type	1.2 meter, non-shielded cable,					
Fambans 0	Brand Name	Motorola (Lianyun)	Model Name	TS910A-38AMS01WHR-M			
Earphone 2	Signal Line Type	1.2 meter, non-shielded cable,	without ferrite co	pre			
	Brand Name	Motorola (Liqi)	Model Name	L32B-053000100-ALL			
USB Cable	Signal Line Type	1.0 meter, shielded cable, with	out ferrite core	1			

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1.6 Modification of EUT

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

1.7 Testing Location

Sporton International (Kunshan) Inc. is accredited to ISO 17025 by National Voluntary Laboratory Accreditation Program (NVLAP code: 600155-0) and the FCC designation No is CN5013.

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Test Site	Sporton International (Kunshan) Inc.					
	No.3-2 Ping-Xiang Rd, Kunshan Development Zone Kunshan City Jiangsu					Jiangsu
Test Site	Province 215335 China					
Location	TEL: +86-512-57900158					
	FAX: +86-512-57900958					
Took Cita No.	Sporton Site No.			FCC Registration No.		
Test Site No.	TH01-KS	CO01-KS				
Test Engineer	Silent Hai Eko Guan					
Temperature	21~25°C 22~24°C		CN5013			
Relative	51~55%	40~42%				
Humidity						

Sporton International (Shenzhen) Inc. is accredited to ISO 17025 by National Voluntary Laboratory Accreditation Program (NVLAP code: 600156-0) and the FCC designation No is CN5019.

Test Site	Sporton International (Shenzhen) Inc.			
	No. 3 Bldg the third floor of south, Shahe River v	ldg the third floor of south, Shahe River west, Fengzeyuan Warehouse,		
Test Site Location	Nanshan District Shenzhen City Guangdong Province 518055 China			
	TEL: +86-755-3320-2398			
Test Site No.	Sporton Site No.	FCC Registration No.		
rest Site No.	03CH01-SZ			
Test Engineer	Vikki Peng	F77700		
Temperature	24~25℃	577730		
Relative Humidity	dity 48~49%			

Note: The test site complies with ANSI C63.4 2014 requirement.

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1.8 Applicable Standards

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

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- FCC Part 15 Subpart C §15.225
- ANSI C63.10-2013

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2. TEST CONFIGURATION OF EQUIPMENT UNDER TEST

2.1 Descriptions of Test Mode

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.

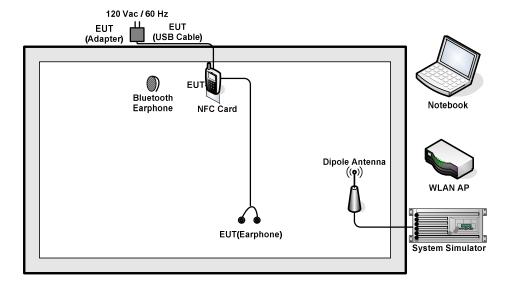
Test Items				
AC Power Line Conducted Emissions	Field Strength of Fundamental Emissions			
20dB Spectrum Bandwidth	Frequency Stability			
Radiated Emissions 9kHz~30MHz	Radiated Emissions 30MHz~1GHz			

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The EUT pre-scanned in four NFC type, A, B, F, V. The worst type (type F) was recorded in this report. Pre-scanned tests, X, Y, Z in three orthogonal panels to determine the final configuration (Y plane as worst plane) from all possible combinations.

2.2 Connection Diagram of Test System

<AC Conducted Emissions>



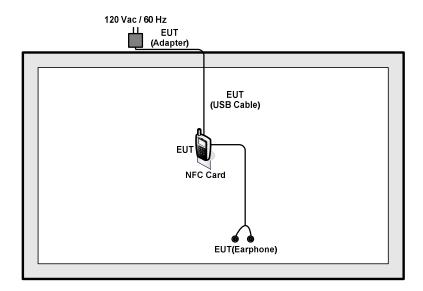
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< For Fundamental Emissions and Mask and Radiated Emissions Measurement >

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2.3 Table for Supporting Units

Support Unit	Manufacturer	Model	FCC ID
System Simulator	R&S	CMU 200	N/A
Router	D-link	DIR-855	KA2DIR855A2
Bluetooth Earphone	Lenovo	LBH308	N/A
Notebook	Lenovo	G480	N/A
NFC Card	N/A	N/A	N/A
SD Card	Kingston	8GB	N/A

2.4 EUT Operation Test Setup

The EUT was programmed to be in continuously transmitting mode.

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.

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3. TEST RESULTS

3.1 AC Power Line Conducted Emissions Measurement

3.1.1 Limit 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.

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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.

For terminal test result, the testing follows FCC KDB 174176.

3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

3.1.3 Test Procedures

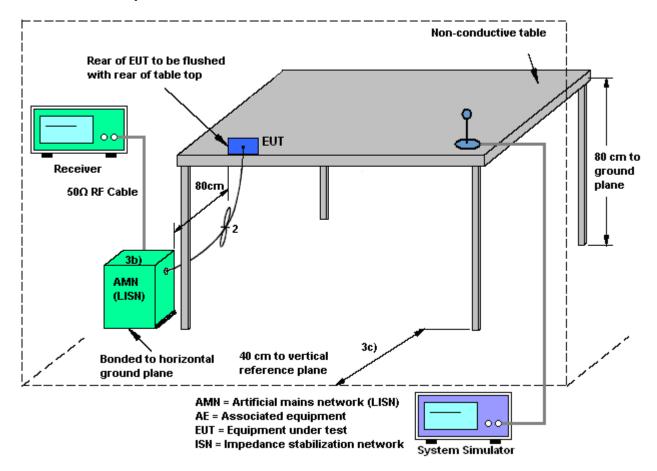
- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to 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.
- 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.

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3.1.4 Test setup



3.1.5 Test Result of AC Conducted Emission

Please refer to Appendix A.

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3.2 20dB and 99% OBW Spectrum Bandwidth Measurement

3.2.1 Limit

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

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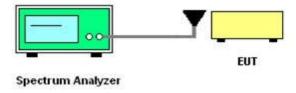
3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

3.2.3 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.

3.2.4 Test Setup



3.2.5 Test Result of Conducted Test Items

Please refer to Appendix B.

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3.3 Frequency Stability Measurement

3.3.1 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.

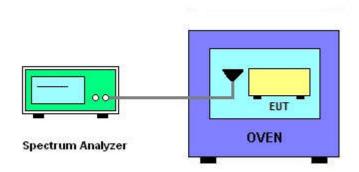
3.3.2 Measuring Instruments

See list of measuring instruments of this test report.

3.3.3 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 ± 100 ppm.
- 6. Extreme temperature rule is -20°C~50°C.

3.3.4 Test Setup



3.3.5 Test Result of Conducted Test Items

Please refer to Appendix B.

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3.4 Field Strength of Fundamental Emissions and Mask Measurement

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3.4.1 Limit

Rules and specifications	FCC CFR 47 Part 15 section 15.225									
Description	Compliance with th	Compliance with the spectrum mask is tested with RBW set to 9kHz.								
From of Emission (MIII)	Field Strength	Field Strength	Field Strength	Field Strength						
Freq. of Emission (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						

3.4.2 Measuring Instruments

See list of measuring instruments of this test report.

3.4.3 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.

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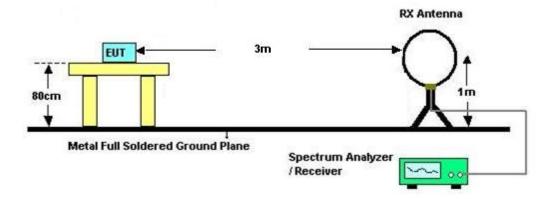
5. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 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.

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6. Compliance with the spectrum mask is tested with RBW set to 9kHz. Note: Emission level ($dB\mu V/m$) = 20 log Emission level ($\mu V/m$).

3.4.4 Test Setup

For radiated emissions below 30MHz



3.4.5 Test Result of Field Strength of Fundamental Emissions and Mask

Please refer to Appendix C.

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3.5 Radiated Emissions Measurement

3.5.1 Limit

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

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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			

3.5.2 Measuring Instruments

See list of measuring instruments of this test report.

3.5.3 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.

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3.5.4 Test Procedures

1. 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 receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.

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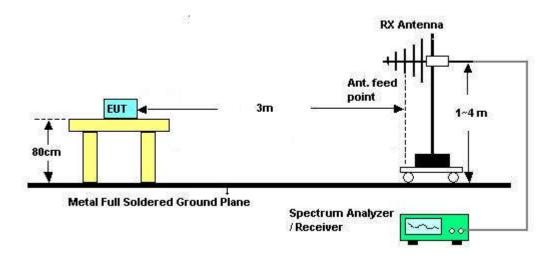
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 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.
- Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 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.
- 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

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3.5.5 Test Setup

For radiated emissions above 30MHz



3.5.6 Test Result of Radiated Emissions Measurement

Please refer to Appendix C.

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3.6 Antenna Requirements

3.6.1 Standard Applicable

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.

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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 FCC rule.

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

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4. LIST OF MEASURING EQUIPMENT

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Aug. 08, 2017	Jan. 05, 2018	Aug. 07, 2018	Conducted (TH01-KS)
Pulse Power Senor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 19, 2017	Jan. 05, 2018	Jan. 19, 2018	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 19, 2017	Jan. 05, 2018	Jan. 19, 2018	Conducted (TH01-KS)
EMI Test Receiver&SA	Agilent	N9038A	MY5226018 5	20Hz~26.5GHz	Apr. 20, 2017	Jan. 16, 2018	Apr.19, 2018	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	May 14, 2017	Jan. 16, 2018	May 13, 2018	Radiation (03CH01- SZ)
Bilog Antenna	TeseQ	CBL6112D	23188	30MHz~2GHz	Apr. 25, 2017	Jan. 16, 2018	Apr. 24, 2018	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 20, 2017	Jan. 16, 2018	Apr. 19, 2018	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	6160100019 85	N/A	NCR	Jan. 16, 2018	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Jan. 16, 2018	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Jan. 16, 2018	NCR	Radiation (03CH01-SZ)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 20, 2017	Jan. 22, 2018	Apr. 19, 2018	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060103	9kHz~30MHz	Oct. 13, 2017	Jan. 22, 2018	Oct. 12, 2018	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060105	9kHz~30MHz	Oct. 13, 2017	Jan. 22, 2018	Oct. 12, 2018	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000	AC 0V~300V,	Oct. 12, 2017	Jan. 22, 2018	Oct. 11, 2018	Conduction
AOT OWE! Source	Onionia	01002	811	45Hz~1000Hz	001. 12, 2017	Juli. 22, 2010	231. 11, 2010	(CO01-KS)

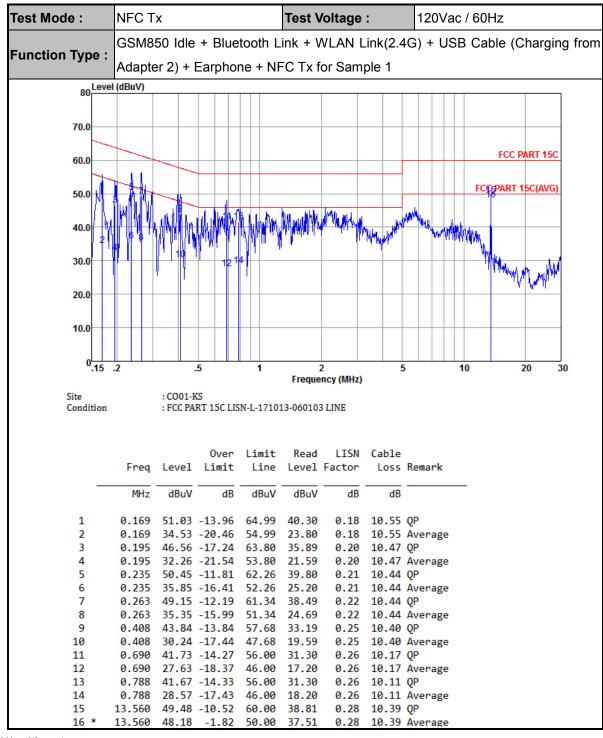
NCR: No Calibration Required

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Appendix A. Test Results of Conducted Emission Test



(1) with antenna

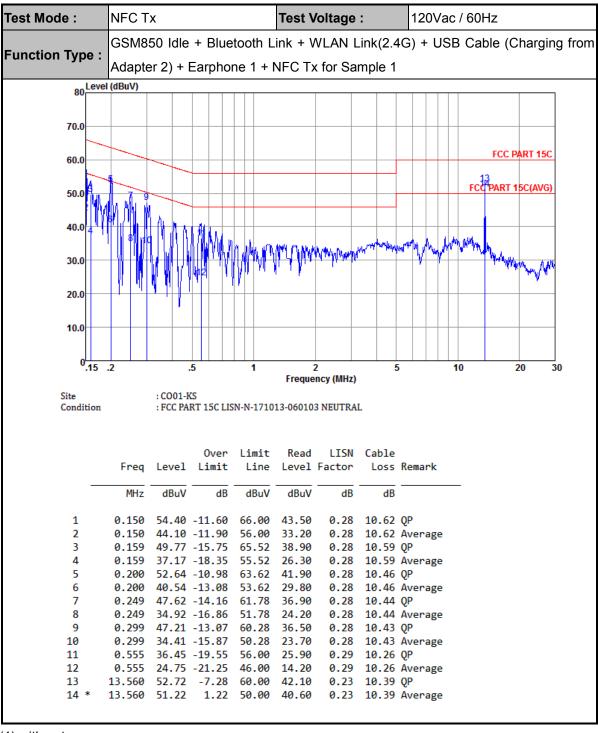
Remark: 13.560MHz is the NFC RF fundamental signal.

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(1) with antenna

Remark: 13.560MHz is the NFC RF fundamental signal.

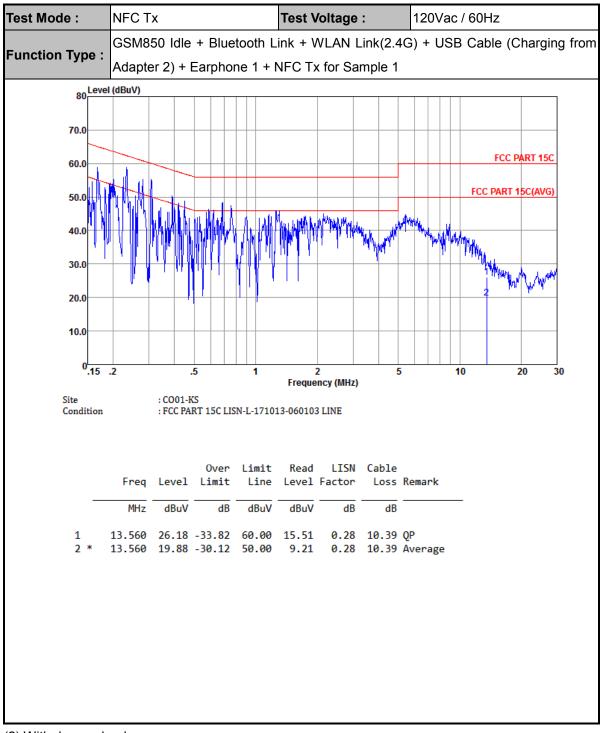
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(2) With dummy load

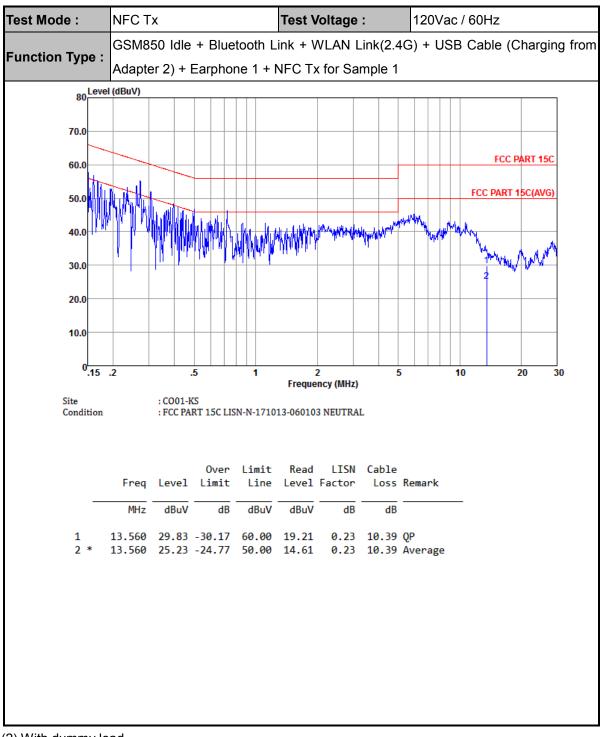
Remark: Only the fundamental NFC signal needs to be retested per C63.4.

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(2) With dummy load

Remark: Only the fundamental NFC signal needs to be retested per C63.4.

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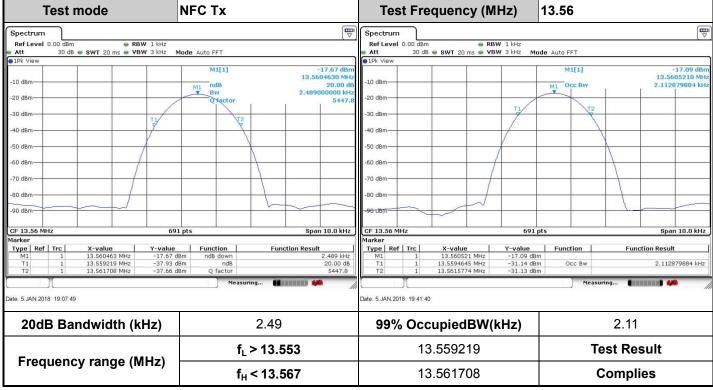
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Appendix B. Test Results of Conducted Test Items

B1. Test Result of 20dB Spectrum Bandwidth



Remark: Because the measured signal is CW/CW-like adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW

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B2. Test Result of Frequency Stability

Voltage vs. Freque	ncy Stability	Temperature vs. Frequency Stability			
Voltage (Vac)	Measurement Frequency (MHz)	Temperature (℃)	Measurement Frequency (MHz)		
120	13.560471	-20	13.560529		
102	13.560471	-10	13.560529		
138	13.560471	0	13.560529		
		10	13.560464		
		20	13.560464		
		30	13.560464		
		40	13.560464		
		50	13.560464		
Max.Deviation (MHz)	0.000471	Max.Deviation (MHz)	0.000528		
Max.Deviation (ppm)	34.6976	Max.Deviation (ppm)	38.9749		
Limit	FS < ±100 ppm	Limit	FS < ±100 ppm		
Test Result	PASS	Test Result	PASS		

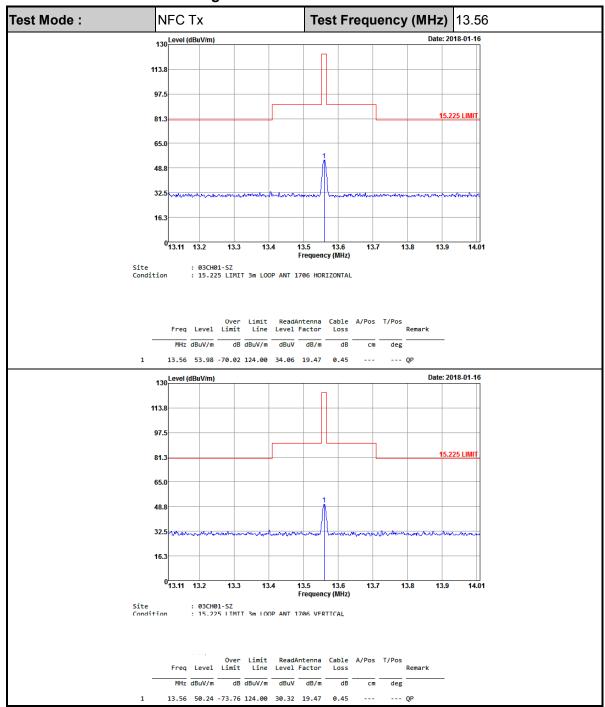
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Appendix C. Test Results of Radiated Test Items

C1. Test Result of Field Strength of Fundamental Emissions



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C2. Results of Radiated Spurious Emissions (9 kHz~30MHz)

Test Mode :	NFC	Tx		Polariz	ation :	Hor	izontal		
Frequency (MHz)	Level	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
0.01726	47.48	-75.38	122.86	26.43	21	0.05	-	-	Average
0.06939	49.67	-61.11	110.78	29.11	20.5	0.06	-	-	Average
0.09996	44.87	-62.74	107.61	24.1	20.7	0.07	-	-	QP
0.12627	61.78	-43.8	105.58	41.1	20.6	0.08	-	-	Average
1.647	37.42	-25.85	63.27	16.69	20.57	0.16	-	-	QP
2.084	36.01	-33.99	70	15.28	20.55	0.18	-	-	QP
13.824	33.08	-36.92	70	13.17	19.46	0.45	-	-	QP
24.937	32.49	-37.51	70	12.22	19.68	0.59	-	-	QP
29.865	36.46	-33.54	70	16.14	19.64	0.68	-	-	QP

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Test Mode :	NFC NFC	Tx		Polariz	zation :	Vert	ical		
Frequency (MHz)	Level	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB)	Cable Loss (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
0.00925	51.11	-77.17	128.28	30.06	21	0.05	-	-	Average
0.06549	44.53	-66.75	111.28	23.97	20.5	0.06	-	-	Average
0.1023	40.43	-66.98	107.41	19.66	20.7	0.07	-	-	QP
0.13515	35.78	-69.21	104.99	15.1	20.6	0.08	-	-	Average
1.129	38.18	-28.37	66.55	17.46	20.59	0.13	-	-	QP
5.51	34.63	-35.37	70	14	20.35	0.28	-	-	QP
13.16	33.59	-36.41	70	13.66	19.49	0.44	-	-	QP

Note:

21.688

27.905

33.07

33.09

1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

13.25

13.04

19.27

19.41

0.55

0.64

QΡ

QP

2. Distance extrapolation factor = 40 log (specific distance / test distance) (dB);

70

70

3. Limit line = specific limits ($dB\mu V$) + distance extrapolation factor.

-36.93

-36.91

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C3. Results of Radiated Spurious Emissions (30MHz~1GHz)

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Test Mode: NFC Tx					larization	:	Horizont	al		
Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
(MHz)	(dBµV/m) (dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
30.97	26.07	-13.93	40	30	27.42	0.25	31.6	-	-	Peak
230.79	32.59	-13.41	46	42.57	19.32	1.77	31.07	100	0	Peak
423.82	32.38	-13.62	46	35.44	25.56	2.48	31.1	-	-	Peak
649.83	29.59	-16.41	46	30.24	27.4	3.15	31.2	-	-	Peak
683.78	29.36	-16.64	46	29.73	27.6	3.23	31.2	-	-	Peak

29.76

3.96

31.31

29.08

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Peak

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Test Mode	e: NFO	NFC Tx Polarization : Vertical								
Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
34.85	34.07	-5.93	40	39.05	26.3	0.32	31.6	-	-	Peak
40.67	36.94	-3.06	40	47.21	21.04	0.39	31.7	100	126	QP
230.79	29.89	-16.11	46	39.87	19.32	1.77	31.07	-	-	Peak
431.58	30.95	-15.05	46	33.65	25.9	2.5	31.1	-	-	Peak
651.77	31.31	-14.69	46	31.95	27.41	3.15	31.2	-	-	Peak
933.07	32.45	-13.55	46	30.58	29.27	3.9	31.3	-	-	Peak

Note:

952.47

31.49

-14.51

- 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.

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