# **FCC RF Test Report**

APPLICANT : PAX Technology Limited EQUIPMENT : Wireless POS Terminal

BRAND NAME : PAX
MODEL NAME : D210
MARKETING NAME : D210

FCC ID : V5PD210WCDMA

STANDARD : FCC Part 15 Subpart C §15.225

**CLASSIFICATION**: (DXX) Low Power Communication Device Transmitter

The product was received on Jul. 07, 2015 and testing was completed on Aug. 27, 2015. We, SPORTON INTERNATIONAL (SHENZHEN) 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 (SHENZHEN) INC., the test report shall not be reproduced except in full.

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager

# SPORTON INTERNATIONAL (SHENZHEN) INC.

1F & 2F, Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili Town, Nanshan District, Shenzhen, Guangdong, P. R. China

SPORTON INTERNATIONAL (SHENZHEN) INC.

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Report Issued Date : Sep. 01, 2015

Testing Laboratory 2353

Report No.: FR570701D

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# **REVISION HISTORY**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR570701D	Rev. 01	Initial issue of report	Sep. 01, 2015

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# **SUMMARY OF THE TEST RESULT**

	Applied Standard: 47 CFR FCC Part 15 Subpart C / IC RSS-210 issue 8					
Part	FCC Rule	IC Rule	Description of Test	Result	Under Limit	
3.1	15.207	RSS-GEN 8.8	AC Power Line Conducted	Complies	17.42 dB at	
3.1	15.207	K33-GEN 0.0	Emissions	Complies	0.170MHz	
2.0	45 225(a)/b)/a)	40.6	Field Strength of	Commiss	64.290 dB at	
3.2	15.225(a)(b)(c)	A2.6	Fundamental Emissions	Complies	13.560 MHz	
3.3	2.1049	-	20dB Spectrum Bandwidth	Complies	-	
2.4	15.225(d)	A2.6	Dadiated Emissions	Commiss	4.85 dB at	
3.4	15.209	A2.6	Radiated Emissions	Complies	31.940 MHz	
3.5	15.225(e)	A2.6	Frequency Stability	Complies	-	
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)	3.9dB	Confidence levels of 95%

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### 1. GENERAL INFORMATION

# 1.1 Applicant

#### **PAX Technology Limited**

Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour Road, Wanchai, Hong Kong

#### 1.2 Manufacturer

#### PAX Computer Technology (Shenzhen) Co., Ltd.

4/F, No. 3 Building, Software Park, Second Central Science-Tech Road, High-Tech industrial Park, Shenzhen, Guangdong, P. R. C.

#### 1.3 Product Details

Items	Description
Tx/Rx Frequency Range	13.553 ~ 13.567MHz
Channel Number	1
20dBW	3.04 KHz
99%OBW	2.24 KHz
Antenna Type	PCB Antenna
Type of Modulation	ASK

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

#### 1.4 Modification of EUT

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

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# 1.5 Testing Location

Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.		
	1F & 2F, Building A, Morning Business Center, No. 4003 ShiGu Rd.,		
Test Site Location	Xili Town, Nanshan District, Shenzhen, Guangdong, P. R. China		
rest site Location	TEL: +86-755-8637-9589		
	FAX: +86-755-8637-9595		
Test Site No.	Sporton Site No.		
rest Site No.	TH01-SZ	CO01-SZ	
Test Engineer	Tiny You Jacky Yang		
Temperature	24~26℃ 21~23℃		
Relative Humidity	50~53% 41~43%		

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Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.		
	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan		
Test Site Location	warehouse, Nanshan District, Shenzhen, Guangdong, P. R. China		
	TEL: +86-755-3320-2398		
Test Site No.		FCC/IC Registration No.	
rest Site No.	03CH01-SZ		
Test Engineer	Gavin Zhang	831040/4086F	
Temperature	23~25℃	63 1040/4060F	
Relative Humidity	48~52%		

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
- IC RSS-210 Issue 8

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### 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.
- 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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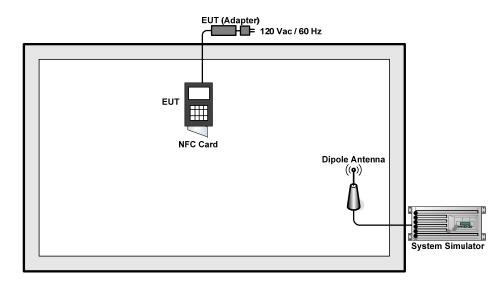
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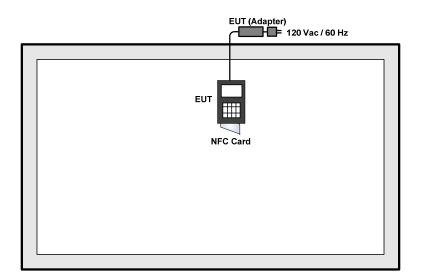


# 1.8 Test Configurations

#### <AC Conducted Emissions>



#### < For Fundamental Emissions and Mask and Radiated Emissions Measurement >



# 1.9 Table for Supporting Units

Support Unit	Manufacturer	Model	FCC ID
System Simulator	R&S	CMU 200	N/A
WLAN AP	D-Link	DIR-628	KA2DIR628A2
DC Power Supply	GW INSTEK	GPS-3030D	N/A
NFC Card	N/A	N/A	N/A

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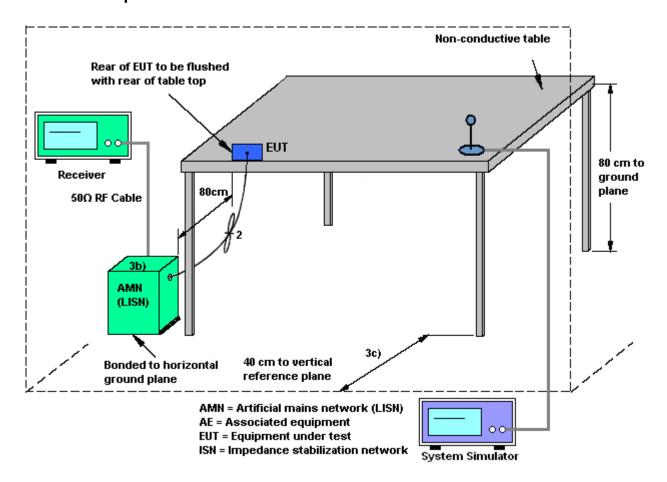
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# 2. CONDUCTED EMISSION TEST

# 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 B.

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#### 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	

<sup>\*</sup>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.
- 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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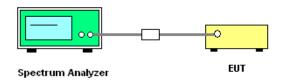
# 3. CONDUCTED TEST ITEMS

# 3.1 Measuring Instruments

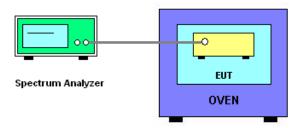
See list of measuring instruments of this test report.

# 3.2 Test Setup

# 3.2.1 20dB and 99% OBW Spectrum Bandwidth



# 3.2.2 Frequency Stability



# 3.3 Test Result of Conducted Test Items

Please refer to Appendix C.

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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

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specific band 13.553~13.567MHz.

3.4.2 Test Procedures

I. The transmitter output (antenna port) was connected to the spectrum analyzer 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

The transmitter output (antenna port) was connected to the spectrum analyzer.

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 × 10<sup>6</sup> ppm

and the limit is less than ±100ppm.

6. Extreme temperature rule is -20°C~50°C.



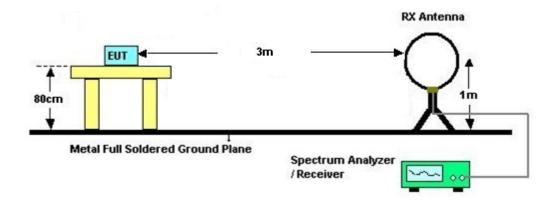
### 4. RADIATED TEST ITEMS

# 4.1 Measuring Instruments

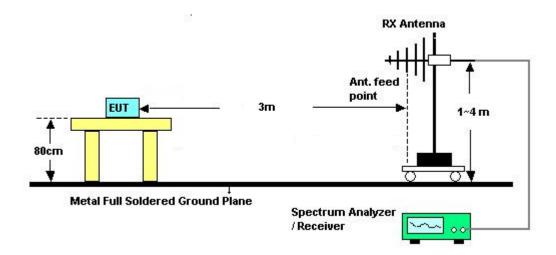
See list of measuring instruments of this test report.

# 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 D.

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## 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 IC RSS-210 A2.6			
Description	Compliance with th	e spectrum mask is t	ested with RBW set t	o 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

#### 4.4.2 **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 loop receiving antenna mounted antenna tower was placed 3 meters far away from the turntable.
- 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 receiving antenna was fixed at one meter above ground to find the maximum emissions field strength.
- For Fundamental emissions, use the receiver to measure QP reading.
- 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.
- Compliance with the spectrum mask is tested with RBW set to 9kHz.

Note: Emission level ( $dB\mu V/m$ ) = 20 log Emission level ( $\mu V/m$ ).

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#### 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.

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#### 4.5.3 Test Procedures

- Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable
   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.
- 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.

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# 5. LIST OF MEASURING EQUIPMENT

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSP30	101400	9kHz~30GHz	Jan. 28, 2015	Aug. 27, 2015	Jan. 27, 2016	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangrou p	LP-150U	H201408180 3	-40~+150°C	Aug. 07, 2015	Aug. 27, 2015	Aug. 06, 2016	Conducted (TH01-SZ)
EMI Test Receiver&SA	Agilent Technologies	N9038A	MY5226018 5	20Hz~26.5GHz	May 26, 2015	Jul. 31, 2015	May 25, 2016	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	May 06, 2015	Jul. 31, 2015	May 05, 2016	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	23188	30MHz~2GHz	Nov. 07, 2014	Jul. 31, 2015	Nov. 06, 2015	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3000MHz / 30 dB	Jan. 28, 2015	Jul. 31, 2015	Jan. 27, 2016	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	6160100019 85	N/A	NCR	Jul. 31, 2015	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Jul. 31, 2015	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Jul. 31, 2015	NCR	Radiation (03CH01-SZ)
EMI Receiver	R&S	ESCI7	100724	9kHz~3GHz;	Jan. 28, 2015	Jul. 08, 2015~ Jul. 09, 2015	Jan. 27, 2016	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	103892	9kHz~30MHz	Feb. 02, 2015	Jul. 08, 2015~ Jul. 09, 2015	Feb. 01, 2016	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	MessTec	AN3016	16850	9kHz~30MHz	Feb. 02, 2015	Jul. 08, 2015~ Jul. 09, 2015	Feb. 01, 2016	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	6160200008 91	100Vac~250Vac	Aug. 07, 2014	Jul. 08, 2015~ Jul. 09, 2015	Aug. 06, 2015	Conduction (CO01-SZ)
Pulse Limiter	COM-POWER	LIT-153 Transient Limiter	53139	150kHz~30MHz	Oct. 24, 2014	Jul. 08, 2015~ Jul. 09, 2015	Oct. 23, 2015	Conduction (CO01-SZ)

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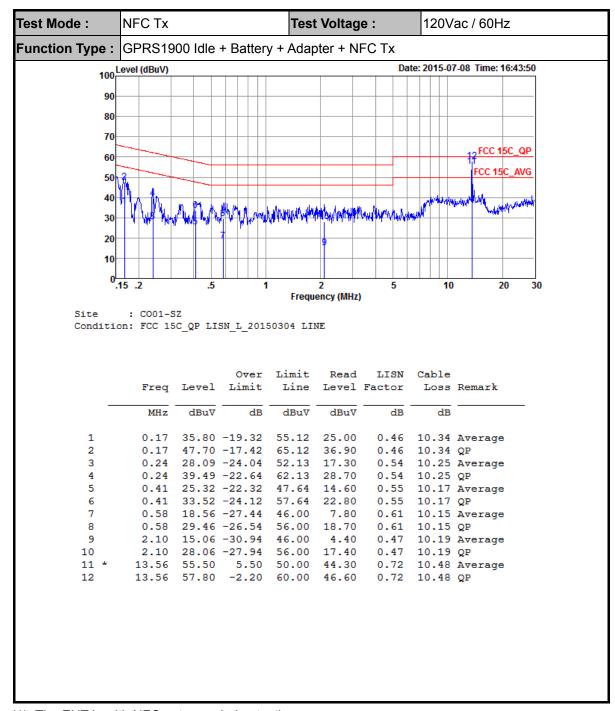
# **Appendix A. Setup Photographs**

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# **Appendix B. Test Results of Conducted Emission Test**

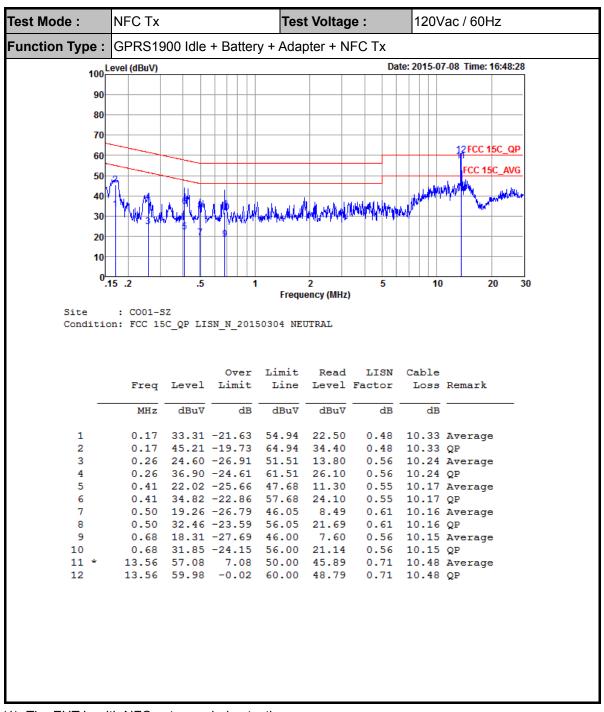


(1) The EUT is with NFC antenna during testing.

Remark: 13.56MHz is the NFC RF fundamental signal.

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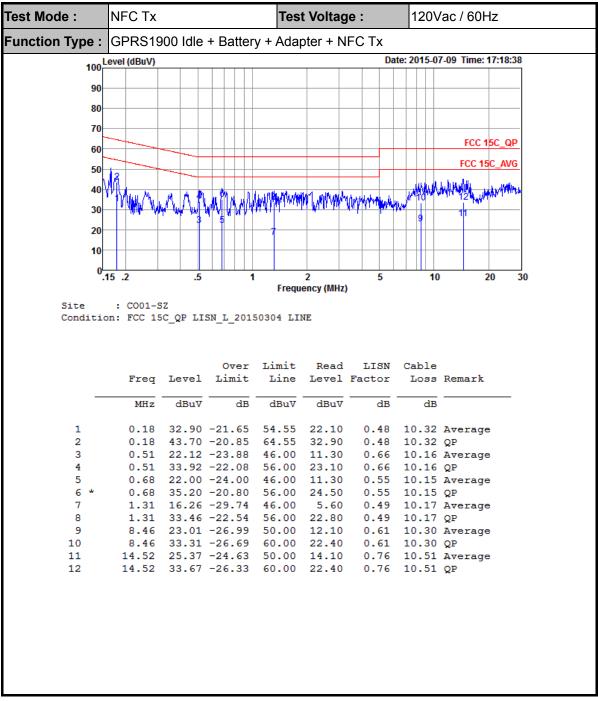
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(1) The EUT is with NFC antenna during testing.

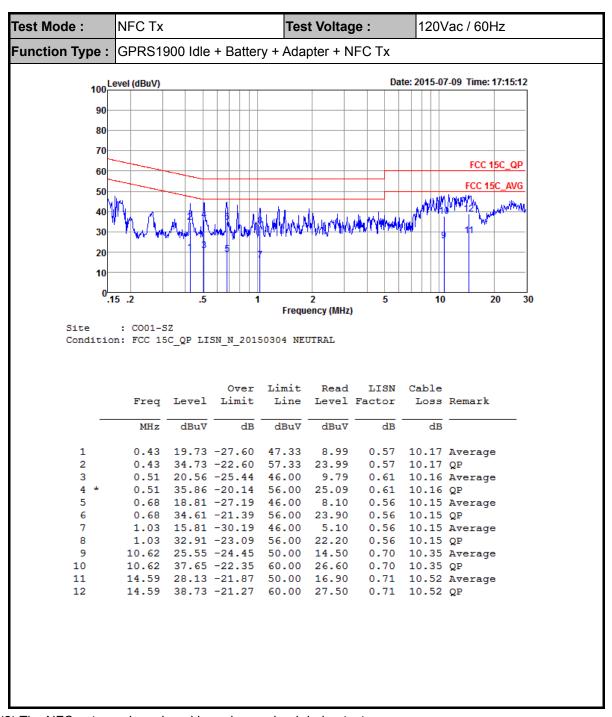
Remark: 13.56MHz is the NFC RF fundamental signal.

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(2) The NFC antenna is replaced by a dummy load during test.

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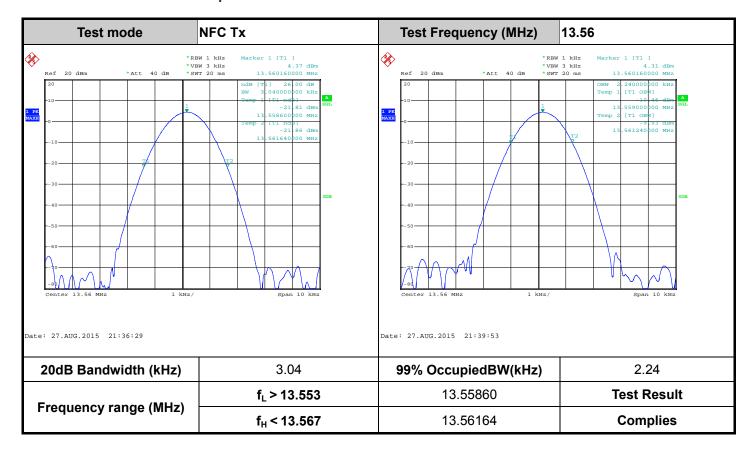


(2) The NFC antenna is replaced by a dummy load during test.

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# **Appendix C. Test Results of Conducted Test Items**

# C.1 Test Result of 20dB Spectrum Bandwidth



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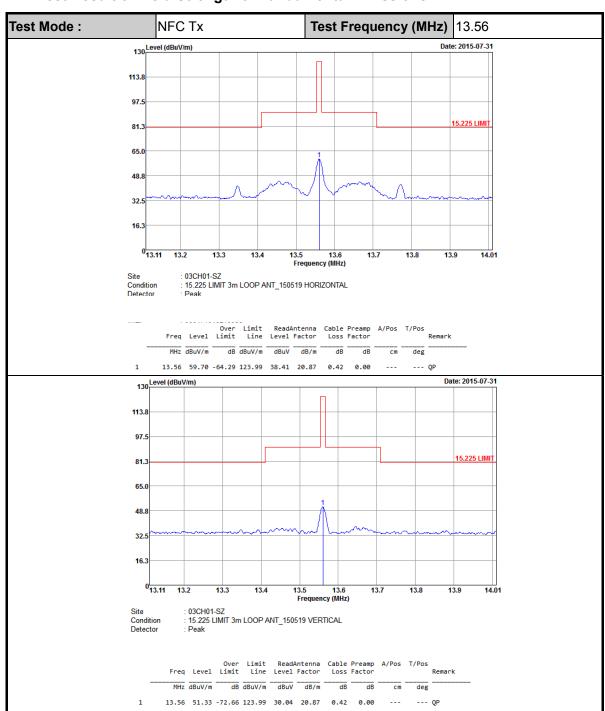
# C.2 Test Result of Frequency Stability

Voltage vs. Freque	ency Stability	Temperature vs. Frequency Stability				
Voltage (Vac)	Measurement	Temperature (℃)	Measurement			
	Frequency (MHz)		Frequency (MHz)			
120	13.560120	-20	13.560110			
102	13.560120	-10	13.560110			
138	13.560120	0	13.560110			
		10	13.560110			
		20	13.560120			
		30	13.560110			
		40	13.560110			
		50	13.560110			
Max.Deviation (MHz)	0.000120	Max.Deviation (MHz)	0.000120			
Max.Deviation (ppm)	8.8496	Max.Deviation (ppm)	8.8496			
Limit	FS < ±100 ppm	Limit	FS < ±100 ppm			
Test Result	PASS	Test Result	PASS			

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# **Appendix D. Test Results of Radiated Test Items**

## D.1 Test Result of Field Strength of Fundamental Emissions



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

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

Test Mode :	NFC	Tx		Polariz	ation :	Hori	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
0.02007	46.09	-75.47	121.56	17.64	28.3	0.15	-	-	Average
0.0678	48.4	-62.58	110.98	25.35	22.9	0.15	-	-	Average
0.09963	44.3	-63.34	107.64	21.25	22.9	0.15	-	-	QP
0.12687	40.7	-64.84	105.54	17.78	22.77	0.15	-	-	Average
0.4904	42.02	-31.77	73.79	20.05	21.8	0.17	-	-	Average
3.53	36.6	-33.4	70	14.72	21.65	0.23	-	-	QP
10.56	35.57	-34.43	70	13.97	21.23	0.37	-	-	QP
19.996	35.49	-34.51	70	13.4	21.59	0.5	-	-	QP
27.07	36.75	-33.25	70	13.61	22.55	0.59	-	-	QP

Test Mode :	NFC	Тх		Polariz	ration :	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
0.02007	45.03	-76.53	121.56	16.58	28.3	0.15	-	-	Average
0.06519	40.2	-71.12	111.32	17.15	22.9	0.15	-	-	Average
0.10386	31.39	-75.89	107.28	8.34	22.9	0.15	-	-	QP
0.12669	29.03	-76.52	105.55	6.11	22.77	0.15	-	-	Average
0.4867	39.82	-54.04	93.86	17.85	21.8	0.17	-	-	Average
3.26	36.2	-33.8	70	14.41	21.57	0.22	-	-	QP
9.152	35.6	-34.4	70	13.91	21.35	0.34	-	-	QP
18.322	34.74	-35.26	70	12.96	21.3	0.48	-	-	QP
26.55	35.05	-34.95	70	11.97	22.49	0.59	-	-	QP

#### 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. Distance extrapolation factor = 40 log (specific distance / test distance) (dB);
- 3. Limit line = specific limits  $(dB\mu V)$  + distance extrapolation factor.

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

Test Mode : NFC Tx					olarization	:	Horizontal			
Frequency ( MHz )	Leve	Limit	Limit Line ( dBµV/m )	Read Level (dBµV)	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
94.02	23.9	-19.6	43.5	44.56	11.34	1.38	33.38	-	-	Peak
148.34	37.48	-6.02	43.5	57.96	11.23	1.53	33.24	100	256	Peak
244.37	31.25	-14.75	46	50.81	11.75	1.8	33.11	-	-	Peak
337.49	27.99	-18.01	46	44.07	14.82	2.04	32.94	-	-	Peak
428.67	27.76	-18.24	46	41.33	16.9	2.22	32.69	-	-	Peak
555.74	25.52	2 -20.48	46	36.93	18.4	2.48	32.29	-	-	Peak

Test Mode	: NFC	C Tx	Polarization :				Vertical			
Frequency	Level	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level (dBµV)	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
31.94	35.15	-4.85	40	50.39	17.14	1	33.38	125	110	Peak
133.79	31.66	-11.84	43.5	51.86	11.55	1.53	33.28	-	-	Peak
156.1	32.58	-10.92	43.5	53.22	11.06	1.53	33.23	-	-	Peak
242.43	21.88	-24.12	46	41.51	11.68	1.8	33.11	-	-	Peak
337.49	20.95	-25.05	46	37.03	14.82	2.04	32.94	-	-	Peak
515	25.68	-20.32	46	37.68	18.03	2.41	32.44	-	-	Peak

#### 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 $\mu$ V/m) = 20 log Emission level ( $\mu$ V/m).
- 3. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor= Level.

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