



FCC RF Test Report

APPLICANT : PAX Technology Limited
EQUIPMENT : Multi-Lane Payment Terminal
BRAND NAME : PAX
MODEL NAME : PX7
MARKETING NAME : PX7
FCC ID : V5PPX7W
STANDARD : FCC Part 15 Subpart C §15.225
CLASSIFICATION : (DXX) Low Power Communication Device Transmitter

The product was received on Apr. 29, 2016 and testing was completed on Jun. 27, 2016. 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.

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SPORTON INTERNATIONAL (SHENZHEN) INC.

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Table of Contents

SUMMARY OF THE TEST RESULT	4
1. GENERAL INFORMATION.....	5
1.1 Applicant.....	5
1.2 Manufacturer.....	5
1.3 Product Details	5
1.4 Modification of EUT.....	5
1.5 Testing Location.....	6
1.6 Applicable Standards	6
1.7 Test Modes	7
1.8 Test Configurations.....	8
1.9 Table for Supporting Units	9
2. CONDUCTED EMISSION TEST.....	10
2.1 Measuring Instruments.....	10
2.2 Test setup.....	10
2.3 Test Result of Conducted Emission Test.....	10
2.4 AC Power Line Conducted Emissions Measurement	11
3. CONDUCTED TEST ITEMS	12
3.1 Measuring Instruments.....	12
3.2 Test Setup	12
3.3 Test Result of Conducted Test Items	12
3.4 20dB and 99% OBW Spectrum Bandwidth Measurement	13
3.5 Frequency Stability Measurement	13
4. RADIATED TEST ITEMS.....	14
4.1 Measuring Instruments.....	14
4.2 Test Setup	14
4.3 Test Result of Radiated Test Items	14
4.4 Field Strength of Fundamental Emissions and Mask Measurement	15
4.5 Radiated Emissions Measurement.....	16
5. LIST OF MEASURING EQUIPMENT	18
APPENDIX A. TEST RESULTS OF CONDUCTED EMISSION TEST	
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)	
APPENDIX D. SETUP PHOTOGRAPHS OF EUT	



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR642904B	Rev. 01	Initial issue of report	Aug. 19, 2016

**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 Emissions	Complies	8.72 dB at 0.360MHz
3.2	15.225(a)(b)(c)	A2.6	Field Strength of Fundamental Emissions	Complies	43.63 dB at 13.560 MHz
3.3	2.1049	-	20dB Spectrum Bandwidth	Complies	-
3.3	-	RSS-GEN 6.6	99% OBW Spectrum Bandwidth	Complies	-
3.4	15.225(d) 15.209	A2.6	Radiated Emissions	Complies	1.44 dB at 837.040 MHz for Quasi-Peak
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)	±5.0dB	Confidence levels of 95%



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	2.64KHz
99%OBW	2.26KHz
Antenna Type	PCB Antenna
HW Version	PX7-xxx-xxx-xxxx
SW Version	14.00.xx
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.

1.5 Testing Location

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

Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.	
Test Site Location	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P. R. China TEL: +86-755- 3320-2398	
Test Site No.	Sporton Site No.	FCC/IC Registration No.
	03CH03-SZ	565805/4086F
Test Engineer	Jack Tian	
Temperature	23~25℃	
Relative Humidity	48~52%	

Note: The test site complies with ANSI C63.4 2014 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 C63.10-2013
- ♦ IC RSS-210 Issue 8
- ♦ IC RSS-Gen Issue 4



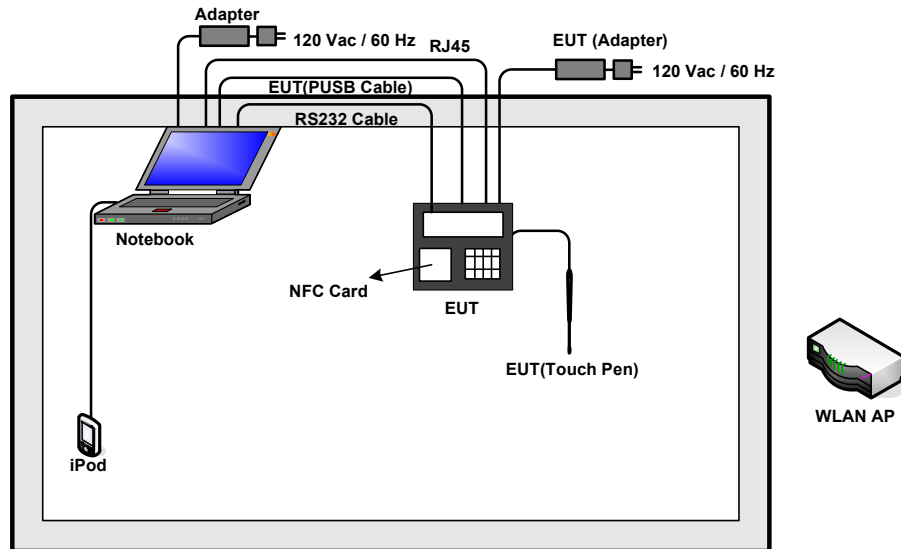
1.7 Test Modes

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.

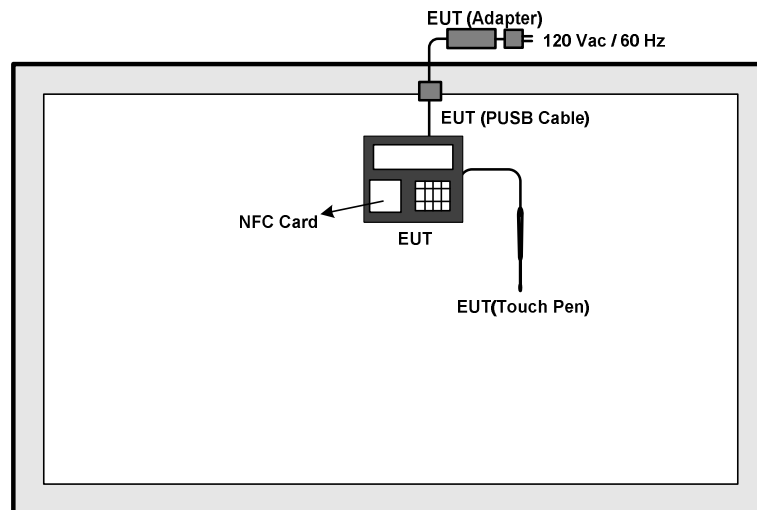
Test Items	
AC Power Line Conducted Emissions	Field Strength of Fundamental Emissions
20dB Spectrum Bandwidth	Frequency Stability
Radiated Emissions 9kHz~30MHz	Radiated Emissions 30MHz~1GHz
Note: 1. The EUT was programmed to be in continuously transmitting mode. 2. The ancillary equipment, NFC card,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

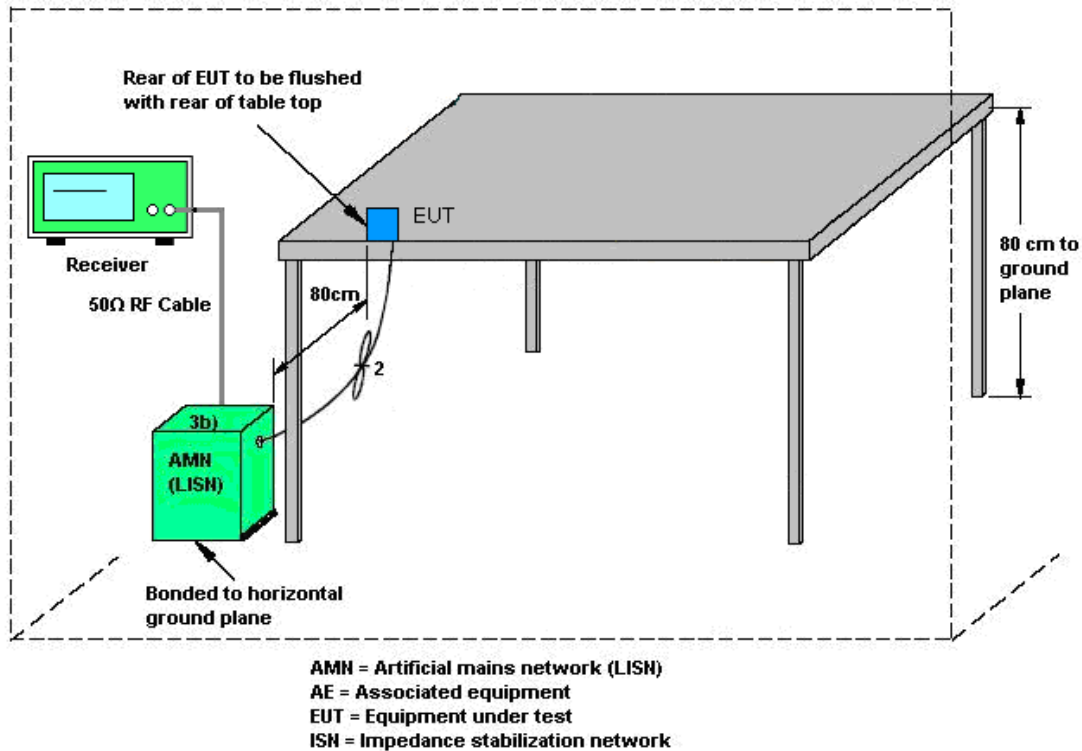
Support Unit	Manufacturer	Model	FCC ID
WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U
Notebook	Lenovo	E540	FCC DoC
iPod	Apple	MC690ZP/A	FCC DoC
RS232 Cable	N/A	N/A	N/A
NFC Card	N/A	N/A	N/A
RJ45	N/A	N/A	N/A

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

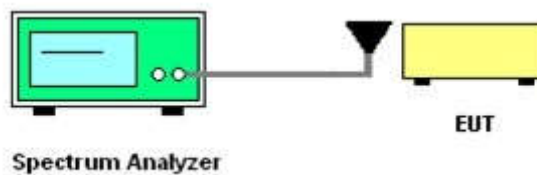
3. CONDUCTED TEST ITEMS

3.1 Measuring Instruments

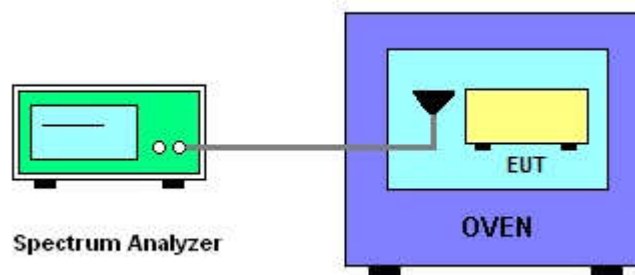
See list of measuring instruments of this test report.

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 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 f_c is declaring of channel frequency. Then the frequency error formula is $(f_c - f)/f_c \times 10^6$ ppm and the limit is less than ± 100 ppm.
6. Extreme temperature rule is -20°C~50°C.

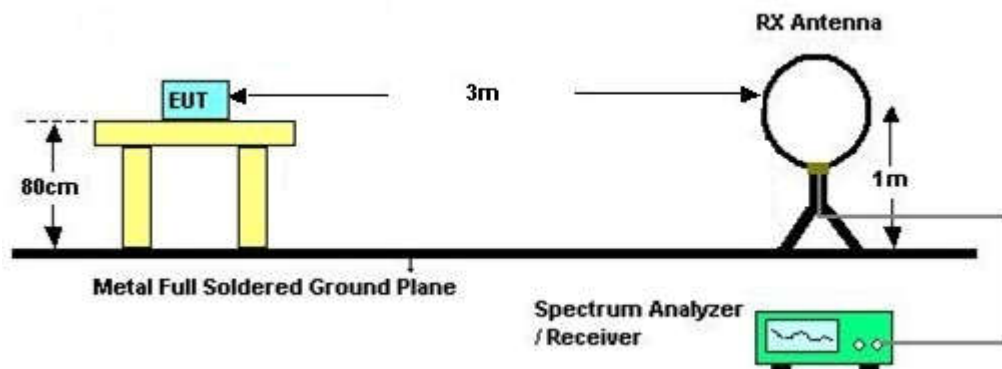
4. RADIATED TEST ITEMS

4.1 Measuring Instruments

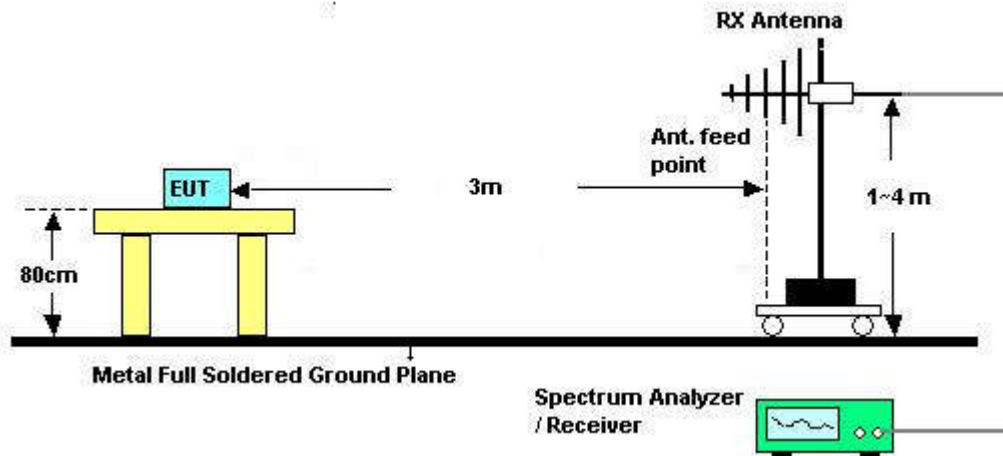
See list of measuring instruments of this test report.

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			
	IC RSS-210 A2.6			
Description	Compliance with the spectrum mask is tested with RBW set to 9kHz.			
Freq. of Emission (MHz)	Field Strength ($\mu\text{V/m}$) at 30m	Field Strength (dB $\mu\text{V/m}$) at 30m	Field Strength (dB $\mu\text{V/m}$) at 10m	Field Strength (dB $\mu\text{V/m}$) 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.
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 $\mu\text{V/m}$) = 20 log Emission level ($\mu\text{V/m}$).

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 (MHz)	Field Strength (μ V/m)	Measurement Distance (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

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.
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.



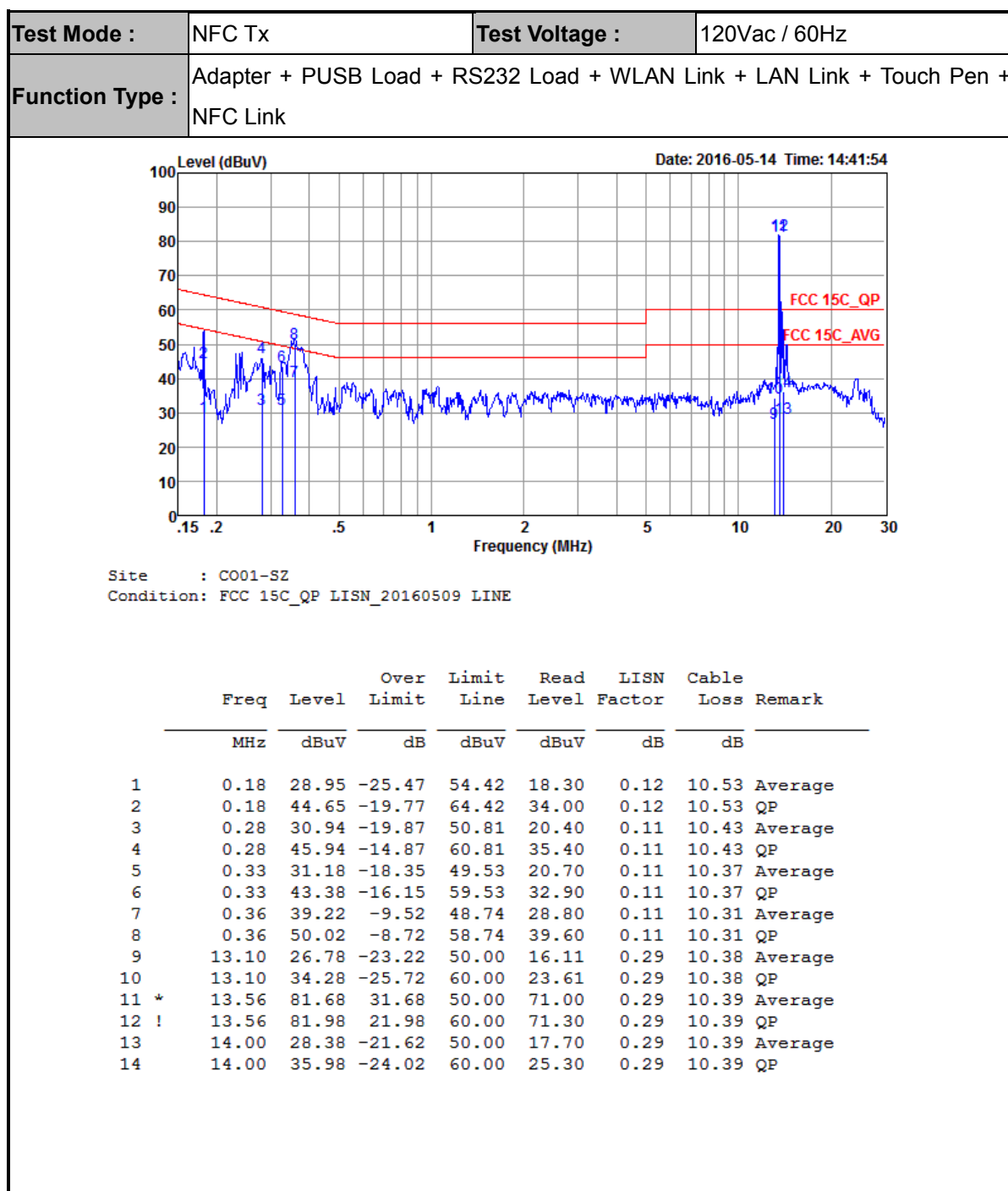
5. LIST OF MEASURING EQUIPMENT

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSP30	101400	9kHz~30GHz	Jan. 12, 2016	May 19, 2016	Jan. 11, 2017	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhongrou p	LP-150U	H201408180 3	-40~+150°C	Aug. 07, 2015	May 19, 2016	Aug. 06, 2016	Conducted (TH01-SZ)
AC Power Source	Chroma	61602	6160200008 91	100Vac~250Vac	Aug. 07, 2015	May 19, 2016	Aug. 06, 2016	Conducted (TH01-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY5445008 3	20Hz~8.4GHz	May 07, 2016	Jun. 27, 2016	May 06, 2017	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	May 07, 2016	Jun. 27, 2016	May 06, 2017	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz~2GHz	May 21, 2016	Jun. 27, 2016	May 20, 2017	Radiation (03CH03-SZ)
Amplifier	PREAMP LIFIER	BPA-530	102210	0.01Hz ~3000MHz	Oct. 20, 2015	Jun. 27, 2016	Oct. 19, 2016	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	6160100019 85	N/A	NCR	Jun. 27, 2016	NCR	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Jun. 27, 2016	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Jun. 27, 2016	NCR	Radiation (03CH03-SZ)
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz;Max 30dBm	Oct. 20, 2015	May 14, 2016	Oct. 19, 2016	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103892	9kHz~30MHz	Jan. 12, 2016	May 14, 2016	Jan. 11, 2017	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	MessTec	3816/2SH	00103912	9kHz~30MHz	Jan. 12, 2016	May 14, 2016	Jan. 11, 2017	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	6160200008 91	100Vac~250Vac	Aug. 07, 2015	May 14, 2016	Aug. 06, 2016	Conduction (CO01-SZ)
Pulse Limiter	COM-POWER	LIT-153 Transient Limiter	53139	150kHz~30MHz	Oct. 20, 2015	May 14, 2016	Oct. 19, 2016	Conduction (CO01-SZ)

NCR: No Calibration Required



Appendix A. Test Results of Conducted Emission Test

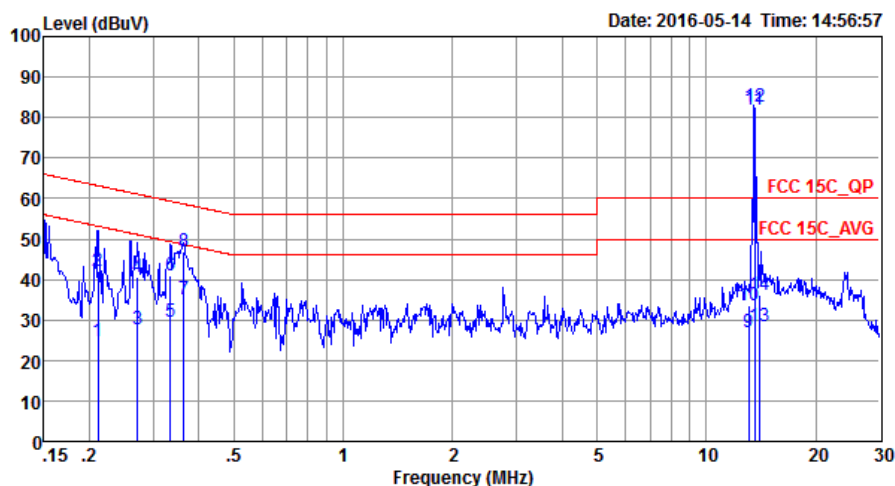


(1) The EUT is with NFC antenna during testing.

Remark: 13.56MHz is the NFC RF fundamental signal.



Test Mode :	NFC Tx	Test Voltage :	120Vac / 60Hz
Function Type :	Adapter + PUSB Load + RS232 Load + WLAN Link + LAN Link + Touch Pen + NFC Link		



Site : C001-SZ
Condition: FCC 15C_QP LISN_20160509 NEUTRAL

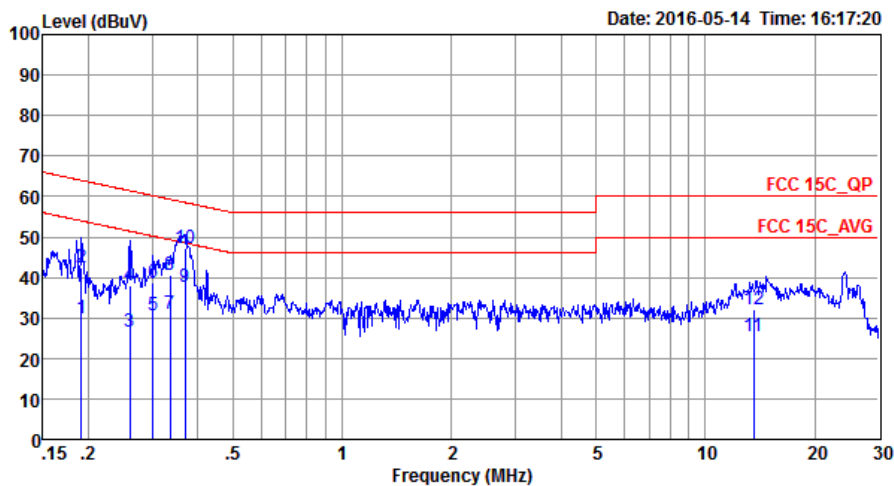
	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.21	24.90	-28.24	53.14	14.30	0.11	10.49	Average
2	0.21	42.10	-21.04	63.14	31.50	0.11	10.49	QP
3	0.27	27.85	-23.22	51.07	17.30	0.11	10.44	Average
4	0.27	40.55	-20.52	61.07	30.00	0.11	10.44	QP
5	0.33	29.57	-19.78	49.35	19.10	0.11	10.36	Average
6	0.33	40.87	-18.48	59.35	30.40	0.11	10.36	QP
7	0.36	34.92	-13.73	48.65	24.50	0.11	10.31	Average
8	0.36	46.92	-11.73	58.65	36.50	0.11	10.31	QP
9	13.10	26.78	-23.22	50.00	16.11	0.29	10.38	Average
10	13.10	33.68	-26.32	60.00	23.01	0.29	10.38	QP
11 *	13.56	81.78	31.78	50.00	71.10	0.29	10.39	Average
12 !	13.56	82.48	22.48	60.00	71.80	0.29	10.39	QP
13	14.00	28.48	-21.52	50.00	17.80	0.29	10.39	Average
14	14.00	36.08	-23.92	60.00	25.40	0.29	10.39	QP

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

Remark: 13.56MHz is the NFC RF fundamental signal.



Test Mode :	NFC Tx	Test Voltage :	120Vac / 60Hz
Function Type :	Adapter + PUSB Load + RS232 Load + WLAN Link + LAN Link + Touch Pen + NFC Link		



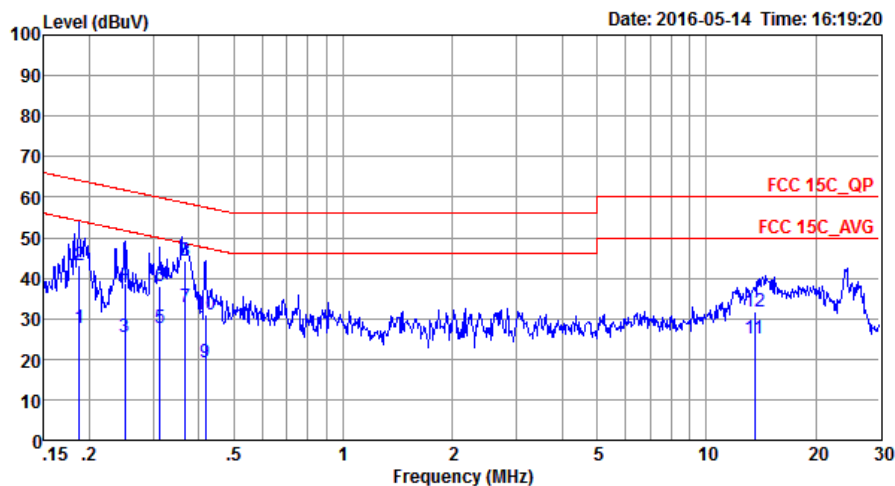
Site : CO01-SZ
Condition: FCC 15C_QP LISN_20160509 LINE

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.19	29.93	-24.05	53.98	19.31	0.11	10.51	Average
2	0.19	42.33	-21.65	63.98	31.71	0.11	10.51	QP
3	0.26	26.46	-24.96	51.42	15.90	0.11	10.45	Average
4	0.26	37.96	-23.46	61.42	27.40	0.11	10.45	QP
5	0.30	30.53	-19.66	50.19	20.00	0.11	10.42	Average
6	0.30	38.93	-21.26	60.19	28.40	0.11	10.42	QP
7	0.34	31.16	-18.15	49.31	20.70	0.11	10.35	Average
8	0.34	40.76	-18.55	59.31	30.30	0.11	10.35	QP
9 *	0.37	37.71	-10.81	48.52	27.30	0.11	10.30	Average
10	0.37	47.41	-11.11	58.52	37.00	0.11	10.30	QP
11	13.56	25.28	-24.72	50.00	14.60	0.29	10.39	Average
12	13.56	32.18	-27.82	60.00	21.50	0.29	10.39	QP

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



Test Mode :	NFC Tx	Test Voltage :	120Vac / 60Hz
Function Type :	Adapter + PUSB Load + RS232 Load + WLAN Link + LAN Link + Touch Pen + NFC Link		



Site : C001-SZ
Condition: FCC 15C_QP LISN_20160509 NEUTRAL

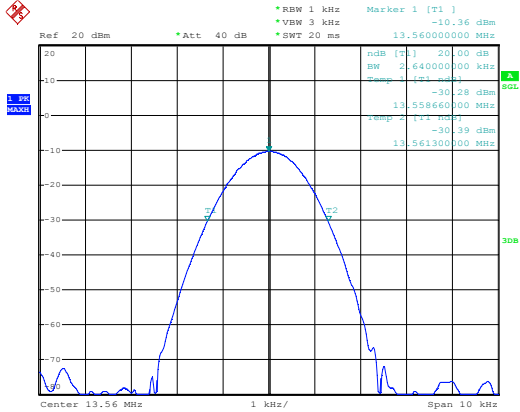
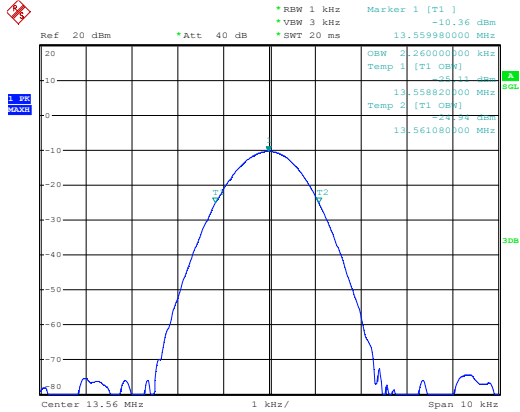
	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.19	27.54	-26.61	54.15	16.90	0.12	10.52	Average
2	0.19	43.04	-21.11	64.15	32.40	0.12	10.52	QP
3	0.25	25.47	-26.26	51.73	14.90	0.11	10.46	Average
4	0.25	38.87	-22.86	61.73	28.30	0.11	10.46	QP
5	0.31	27.60	-22.28	49.88	17.10	0.11	10.39	Average
6	0.31	37.90	-21.98	59.88	27.40	0.11	10.39	QP
7	0.37	32.91	-15.65	48.56	22.50	0.11	10.30	Average
8 *	0.37	44.21	-14.35	58.56	33.80	0.11	10.30	QP
9	0.42	19.05	-28.46	47.51	8.70	0.11	10.24	Average
10	0.42	30.95	-26.56	57.51	20.60	0.11	10.24	QP
11	13.56	24.98	-25.02	50.00	14.30	0.29	10.39	Average
12	13.56	31.58	-28.42	60.00	20.90	0.29	10.39	QP

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



Appendix B. Test Results of Conducted Test Items

B.1 Test Result of 20dB Spectrum Bandwidth

Test mode	NFC Tx	Test Frequency (MHz)	13.56
			
20dB Bandwidth (kHz)	2.64	99% OccupiedBW(kHz)	2.26
Frequency range (MHz)	$f_L > 13.553$	13.55866	Test Result
	$f_H < 13.567$	13.56130	Complies

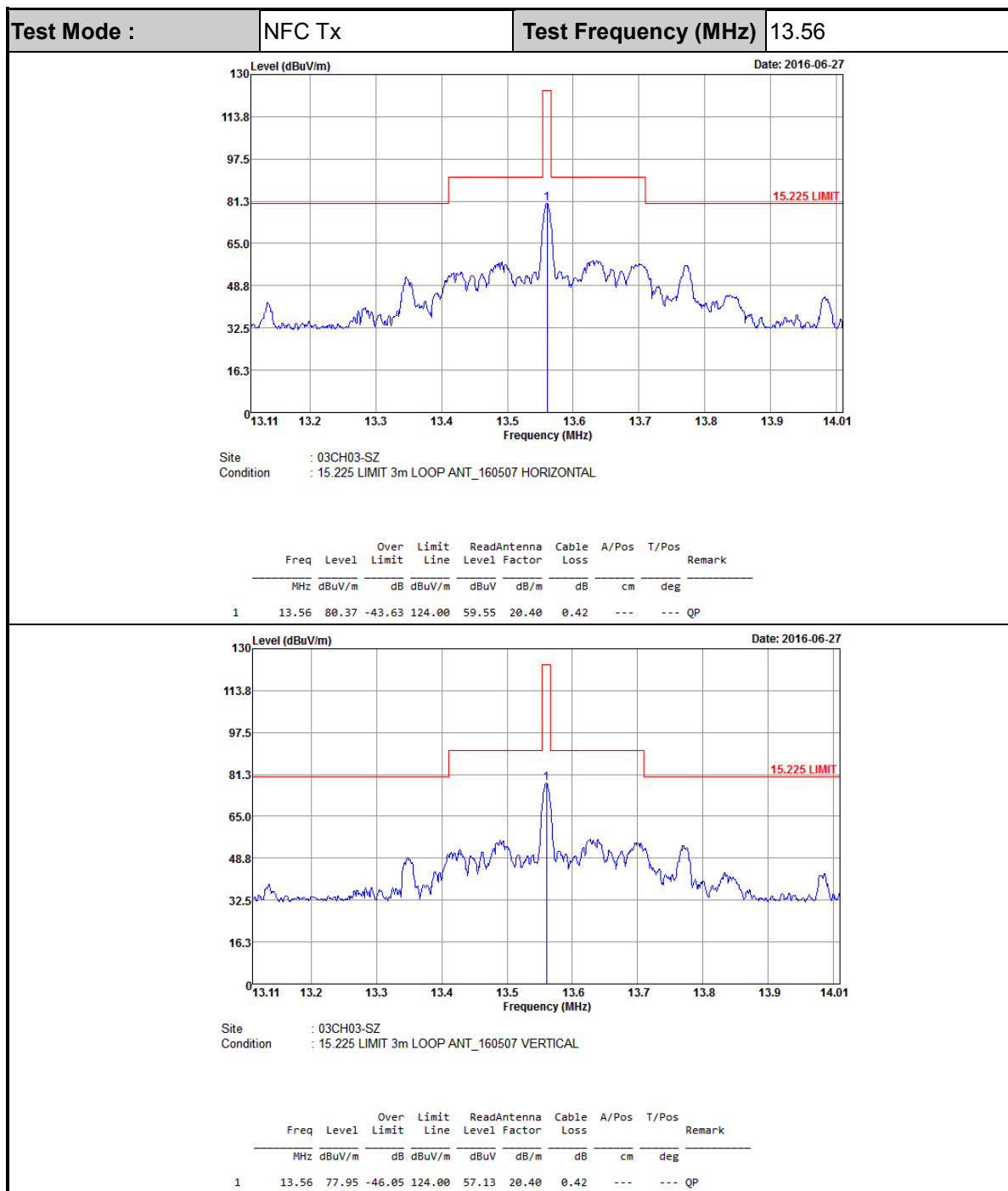
**B.2 Test Result of Frequency Stability**

Voltage vs. Frequency Stability		Temperature vs. Frequency Stability	
Voltage (Vac)	Measurement Frequency (MHz)	Temperature (°C)	Measurement Frequency (MHz)
120	13.559950	-20	13.560000
102	13.559950	-10	13.559990
138	13.559950	0	13.559940
		10	13.559960
		20	13.560000
		30	13.559990
		40	13.559980
		50	13.559960
Max.Deviation (MHz)	-0.000050	Max.Deviation (MHz)	-0.000060
Max.Deviation (ppm)	-3.6873	Max.Deviation (ppm)	-4.4248
Limit	FS < ±100 ppm	Limit	FS < ±100 ppm
Test Result	PASS	Test Result	PASS



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.



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

Test Mode :		NFC Tx			Polarization :		Horizontal		
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
0.00992	56.64	-71.04	127.68	28.19	28.3	0.15	-	-	Average
0.07524	46.64	-63.44	110.08	23.59	22.9	0.15	-	-	Average
0.10023	40.41	-67.17	107.58	17.36	22.9	0.15	-	-	QP
0.12486	37.7	-67.98	105.68	14.78	22.77	0.15	-	-	Average
0.89555	41.37	-27.19	68.56	19.16	22.01	0.2	-	-	QP
2.054	37.99	-32.01	70	16.19	21.59	0.21	-	-	QP
14.88	35.95	-34.05	70	14.8	20.71	0.44	-	-	QP
19.411	36.59	-33.41	70	14.6	21.49	0.5	-	-	QP
28.635	38.26	-31.74	70	14.92	22.73	0.61	-	-	QP

Test Mode :		NFC Tx			Polarization :		Vertical		
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
0.01007	58.48	-69.06	127.54	30.03	28.3	0.15	-	-	Average
0.07515	43.52	-66.57	110.09	20.47	22.9	0.15	-	-	Average
0.09303	38.59	-69.64	108.23	15.54	22.9	0.15	-	-	QP
0.12756	38.16	-67.33	105.49	15.24	22.77	0.15	-	-	Average
0.89185	41.38	-27.22	68.6	19.14	22.05	0.19	-	-	QP
6.692	38.12	-31.88	70	16.32	21.5	0.3	-	-	QP
8.664	36.59	-33.41	70	14.88	21.38	0.33	-	-	QP
22.075	37.42	-32.58	70	14.99	21.89	0.54	-	-	QP

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 = $40 \log (\text{specific distance} / \text{test distance})$ (dB);
4. Limit line = specific limits (dBμV) + distance extrapolation factor.

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

Test Mode :		NFC Tx			Polarization :		Horizontal			
Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
94.02	33.89	-9.61	43.5	40.85	17.7	1.14	25.8	-	-	Peak
133.79	35.2	-8.3	43.5	41.67	17.93	1.2	25.6	-	-	Peak
500.45	33.7	-12.3	46	35.27	22.6	2.17	26.34	-	-	Peak
749.74	38.88	-7.12	46	35.38	27	2.77	26.27	-	-	Peak
837.04	44.56	-1.44	46	39.75	27.92	2.95	26.06	100	32	QP
867.11	43.12	-2.88	46	37.87	28.2	3.02	25.97	-	-	Peak

Test Mode :		NFC Tx			Polarization :		Vertical			
Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
72.68	30.12	-9.88	40	41.23	13.8	0.98	25.89	-	-	Peak
152.22	30.93	-12.57	43.5	37.72	17.51	1.2	25.5	-	-	Peak
292.87	30.81	-15.19	46	35.92	18.23	1.71	25.05	-	-	Peak
749.74	36.55	-9.45	46	33.05	27	2.77	26.27	-	-	Peak
837.04	38.09	-7.91	46	33.28	27.92	2.95	26.06	100	0	Peak
849.65	37.1	-8.9	46	32	28.1	3.02	26.02	-	-	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 μ V/m) = 20 log Emission level (μ V/m).
3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor= Level.