

# FCC RF Test Report

APPLICANT	:	Arima Communication Corporation
EQUIPMENT	:	8" tablet
BRAND NAME	:	Nabi
MODEL NAME	:	NBX208HQCG
MARKETING NAME	:	Nabi ELEV-8
FCC ID	:	PJONBX208HQCG
STANDARD	:	FCC Part 15 Subpart C §15.225
CLASSIFICATION	:	(DXX) Low Power Communication Device Transmitter

The product was received on Jul. 08, 2015 and testing was completed on Aug. 01, 2015. 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.

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# **REVISION HISTORY**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR570801D	Rev. 01	Initial issue of report	Aug. 12, 2015



Applied Standard: 47 CFR FCC Part 15 Subpart C / IC RSS-210 issue 8							
Part	FCC Rule	IC Rule	IC Rule Description of Test		Under Limit		
0.4 45.007			AC Power Line Conducted	Complian	2.15 dB at		
3.1	15.207	K33-GEN 0.0	Emissions	Complies	1.02MHz		
2.2			Field Strength of	Complian	72.88 dB at		
3.2 15.225(a)(D)(C)	A2.0	Fundamental Emissions	Complies	13.560 MHz			
3.3	2.1049	-	20dB Spectrum Bandwidth	Complies	-		
	15 005(d)				7.13 dB at		
3.4	3.4	A2.6	Radiated Emissions	Complies	31.940 MHz		
15.209					for Peak		
3.5	15.225(e)	A2.6	Frequency Stability	Complies	-		
3.6	15.203	-	Antenna Requirements	Complies	-		

# SUMMARY OF THE TEST RESULT

Test Items	Uncertainty	Remark
AC Power Line Conducted Emissions	2.3dB	Confidence levels of 95%
Radiated Emissions (30MHz~1000MHz)	5.1dB	Confidence levels of 95%



# **1. GENERAL INFORMATION**

#### 1.1 Applicant

#### Arima Communication Corporation

No.16, Lane 658, Yingtao Rd., Yingge Dist., New Taipei City 23943, Taiwan (R.O.C.)

#### 1.2 Manufacturer

#### Arima Communication Corporation

No.16, Lane 658, Yingtao Rd., Yingge Dist., New Taipei City 23943, Taiwan (R.O.C.)

#### 1.3 **Product Details**

Items	Description
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

**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 (KUNSHAN) INC.						
	No. 3-2, PingXi	ang Road, Kuns	han, Jiangsu Pr	ovince, P. R. China			
Test Site Location	TEL: +86-0512-5790-0158						
	FAX: +86-0512-5790-0958						
Test Site No.	Sporton Site No.			FCC/IC Registration No.			
	TH01-KS	CO01-KS	03CH02-KS				
Test Engineer	Issac Song Eko Guan Simon Lu			419260/40965			
Temperature	24~25℃ 22~24℃ 22~23℃			410209/4000E			
Relative Humidity	49~51%	49~51% 42~44% 42~43%					

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 C63.10-2013
- 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.				

 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
System Simulator	R&S	CMU 200	N/A
WLAN AP	LINKSYS	WRT600N	Q87-WRT600NV11
Notebook	Lenovo	G480	FCC DoC
DC Power Supply	GW INSTEK	GPD-2303S	N/A
NFC Card	N/A	N/A	N/A
Bluetooth Earphone	Nokia	BH-106	QTLBH-106
Earphone	Lenovo	LH102	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 Spectrum Bandwidth



#### 3.2.2 Frequency Stability



#### 3.3 Test Result of Conducted Test Items

Please refer to Appendix B.



#### 3.4 20dB Spectrum Bandwidth Measurement

#### 3.4.1 Limit

Intentional radiators must be designed to ensure that the 20 dB bandwidth of the emissions in the specific band 13.553~13.567MHz

#### 3.4.2 Test Procedures

- 1. 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.

#### 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 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  $(fc-f)/fc \times 10^6$  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	CFR 47 Part 15 section 15.225(a)-(d)				
Description	Compliance with the spectrum mask is tested using a spectrum analyzer with				
Description	RBW set to a 9kHz for the band 13.553~13.567MHz				
Frog of Emission (MHz)	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

- 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 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 using a spectrum analyzer with RBW set to a 9kHz for the band 13.553~13.567MHz.

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



#### 4.5 Radiated Emissions Measurement

#### 4.5.1 Limit

The field strength of any emissions which appear outside of 13.553~13.567MHz 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

- 1. 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	R&S	FSV30	101338	9kHz~30GHz	May 04, 2015	Jul. 26, 2015	May 03, 2016	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-960502	-40~+150°C	Oct. 25, 2014	Jul. 26, 2015	Oct. 24, 2015	Conducted (TH01-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz	May 04, 2015	Jul. 27, 2015	May 03, 2016	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060103	9kHz~30MHz	Oct. 25, 2014	Jul. 27, 2015	Oct. 24, 2015	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060105	9kHz~30MHz	Oct. 25, 2014	Jul. 27, 2015	Oct. 24, 2015	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000 811	AC 0V~300V, 45Hz~1000Hz	Oct. 25, 2014	Jul. 27, 2015	Oct. 24, 2015	Conduction (CO01-KS)
EMI Test Receiver	R&S	ESR7	101403	9kHz∼7GHz; Max 30dBm	Sep. 29, 2014	Aug. 01, 2015	Sep. 28, 2015	Radiation (03CH02-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Nov. 13, 2014	Aug. 01, 2015	Nov. 12, 2015	Radiation (03CH02-KS)
Bilog Antenna	TeseQ	CBL6112D	37879	30MHz~2GHz	Sep. 13, 2014	Aug. 01, 2015	Sep. 12, 2015	Radiation (03CH02-KS)
Amplifier	com-power	PA-103A	161069	1kHz~1000MHz	May 04, 2015	Aug. 01, 2015	May 03, 2016	Radiation (03CH02-KS)
AC Power Source	Chroma	61601	6160100024 73	N/A	NCR	Aug. 01, 2015	NCR	Radiation (03CH02-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Aug. 01, 2015	NCR	Radiation (03CH02-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Aug. 01, 2015	NCR	Radiation (03CH02-KS)



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



(1) with antenna

Remark: 13.56MHz is the NFC RF fundamental signal.





(1) with antenna

Remark: 13.56MHz 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.





(2) with dummy load

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



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



#### B.1 Test Result of 20dB Spectrum Bandwidth



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

Voltage vs. Freque	ncy Stability	Temperature vs.	Frequency Stability
	Measurement	Tomporature (°C)	Measurement
voltage (vac)	Frequency (MHz)	Temperature (C)	Frequency (MHz)
120	13.560521	-20	13.560608
102	13.560521	-10	13.560579
138	13.560521	0	13.560565
		10	13.560550
		20	13.560521
		30	13.560507
		40	13.560536
		50	13.560521
Max.Deviation (MHz)	0.000521	Max.Deviation (MHz)	0.000607
Max.Deviation (ppm)	38.4218	Max.Deviation (ppm)	44.8009
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.

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Test Mode :	e: NFC Tx			Mode :NFC TxPolarization :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	
0.02	44.91	-76.73	121.64	24.85	20	0.06	-	-	Average	
1.27	48.38	-17.12	65.5	28.33	20	0.05	-	-	QP	
1.39	50.39	-14.37	64.76	30.34	20	0.05	-	-	QP	
4.45	45.88	-23.66	69.54	25.72	20	0.16	-	-	QP	
23.76	34.43	-35.11	69.54	14.11	20	0.32	-	-	QP	
28.46	34.37	-35.17	69.54	14.02	20	0.35	-	-	QP	

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

Test Mode : NFC Tx					ation :	Ver	tical		
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
0.01	34.33	-93.53	127.86	14.27	20	0.06	-	-	Average
0.02	45.68	-75.96	121.64	25.62	20	0.06	-	-	Average
0.68	46.6	-24.3	70.9	26.58	20	0.02	-	-	QP
4.45	40.99	-28.55	69.54	20.83	20	0.16	-	-	QP
15.79	37.47	-32.07	69.54	17.19	20	0.28	-	-	QP
25.05	35.95	-33.59	69.54	15.62	20	0.33	-	-	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 (specific distance / test distance) (dB);
- 4. Limit line = specific limits  $(dB\mu V)$  + distance extrapolation factor.



Test Mode : NFC Tx			Pola	ization :	Ho	orizontal			
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
31.94	21.75	-18.25	40	34.88	18.22	1.3	-	-	Peak
66.86	23.49	-16.51	40	47.25	7.57	1.29	-	-	Peak
98.87	17.02	-26.48	43.5	36.62	11.19	1.84	-	-	Peak
147.37	18.64	-24.86	43.5	37.53	11.68	1.99	-	-	Peak
206.54	27.25	-16.25	43.5	47.18	10.11	2.44	100	137	Peak
316.15	26.13	-19.87	46	42.07	13.65	2.81	-	-	Peak

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

Test Mode : NFC Tx					ization :	Ve	ertical		
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
31.94	32.87	-7.13	40	46	18.22	1.3	100	160	Peak
65.89	20.38	-19.62	40	44.43	7.36	1.19	-	-	Peak
149.31	21.24	-22.26	43.5	40.06	11.69	2.05	-	-	Peak
200.72	28.92	-14.58	43.5	49.13	9.84	2.42	-	-	Peak
267.65	20.3	-25.7	46	37.7	12.42	2.62	-	-	Peak
894.27	24.85	-21.15	46	29.25	22.5	4.83	-	-	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.