



# Radio Test Report

## FCC ID:2BNII-8810007FC1

**Report No.** : TBR-C-202412-0153-8

**Applicant** : Beijing Watch HuiTong Technology Co., Ltd.

### Equipment Under Test (EUT)

**EUT Name** : NFC Module/NFC Card

**Model No.** : 8810007FC1

**Series Model No.** : N/A

**Brand Name** : N/A

**Sample ID** : HC-C-202412-0153-01-01

**Receipt Date** : 2025-01-17

**Test Date** : 2025-01-17 to 2025-02-10

**Issue Date** : 2025-02-10

**Standards** : FCC Part 15, Subpart C 15.225

**Test Method** : ANSI C63.10: 2013

**Conclusions** : **PASS**

In the configuration tested, the EUT complied with the standards specified above.

**Test By** : ZKN.zhou

**Reviewed By** : Henry Huang

**Approved By** : Ivan Su



This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

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## Revision History



## 1. General Information about EUT

### 1.1 Client Information

<b>Applicant</b>	:	Beijing Watch HuiTong Technology Co., Ltd.
<b>Address</b>	:	No.3 Anqing Street, Shunyi District, Beijing, China
<b>Manufacturer</b>	:	Beijing Watch HuiTong Technology Co., Ltd.
<b>Address</b>	:	No.3 Anqing Street, Shunyi District, Beijing, China

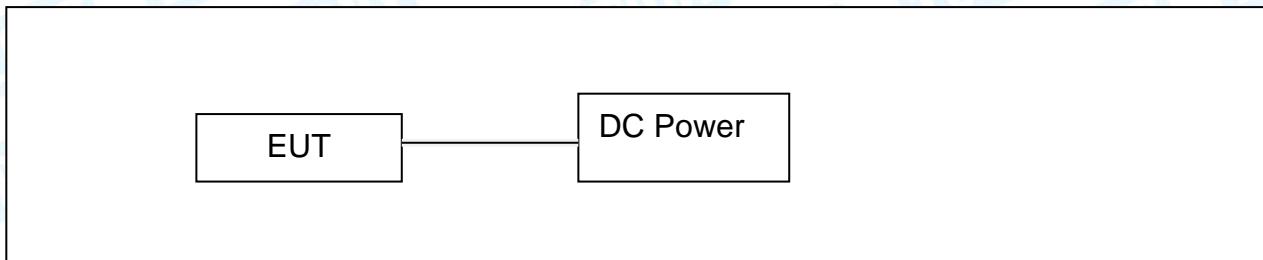
### 1.2 General Description of EUT (Equipment Under Test)

<b>EUT Name</b>	:	NFC Module/NFC Card			
<b>HVIN/Models No.</b>	:	8810007FC1			
<b>Model Different</b>	:	NA			
<b>Product Description</b>	Operation Frequency:	NFC: 13.56MHz			
	Number of Channel:	1 channel			
	Antenna Gain:	0dBi PCB Antenna			
	Modulation Type:	OOK			
<b>Power Rating</b>	:	Input: DC 12V			
<b>Software Version</b>	:	00D			
<b>Hardware Version</b>	:	H.A			
<b>Remark:</b>					
(1) The antenna gain provided by the applicant, the verified for the RF conduction test by TOBY test lab.					
(2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.					
(3) Antenna information provided by the applicant.					



### 1.3 Block Diagram Showing the Configuration of System Tested

#### Radiated Test



### 1.4 Description of Support Units

Equipment Information				
Name	Model	FCC ID/VOC	Manufacturer	Used "√"
---	---	---	---	---
Cable Information				
Number	Shielded Type	Ferrite Core	Length	Note
---	---	---	---	---



## 1.5 Description of Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned follow was evaluated respectively.

For Radiated Test	
Final Test Mode	Description
Mode 1	NFC TX Mode

**Note:**

(1) For all test, we have verified the construction and function in typical operation. And all the test modes were carried out with the EUT in transmitting operation in maximum power with all kinds of data rate.

According to ANSI C63.10 standards, the measurements are performed at the highest, middle, lowest available channels, and the worst case data rate as follows:

TX Mode: Transmitting mode.

(2) During the testing procedure, the continuously transmitting with the maximum power mode was programmed by the customer.

(3) The EUT is considered a Mobile unit; in normal use it was positioned on X-plane. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.



## 1.6 Description of Test Software Setting

During testing channel& Power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of RF setting.

<b>Test Software Version</b>	N/A
Frequency	13.56 MHz
NFC	DEF

## 1.7 Measurement Uncertainty

The reported uncertainty of measurement  $y \pm U$ , where expended uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95 %.

<b>Test Item</b>	<b>Parameters</b>	<b>Expanded Uncertainty (<math>U_{Lab}</math>)</b>
Conducted Emission	Level Accuracy: 9kHz~150kHz 150kHz to 30MHz	$\pm 3.50$ dB $\pm 3.10$ dB
Radiated Emission	Level Accuracy: 9kHz to 30 MHz	$\pm 4.60$ dB
Radiated Emission	Level Accuracy: 30MHz to 1000 MHz	$\pm 4.50$ dB
Radiated Emission	Level Accuracy: Above 1000MHz	$\pm 4.20$ dB



## 1.8 Test Facility

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1A/F., Bldg.6, Yusheng Industrial Zone, The National Road No.107 Xixiang Section 467, Xixiang, Bao'an, Shenzhen, Guangdong, China. At the time of testing, the following bodies accredited the Laboratory:

### **CNAS (L5813)**

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

### **A2LA Certificate No.: 4750.01**

The laboratory has been accredited by American Association for Laboratory Accreditation(A2LA) to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the technical competence in the field of Electrical Testing. And the A2LA Certificate No.: 4750.01.FCC Accredited Test Site Number: 854351. Designation Number: CN1223.

### **IC Registration No.: (11950A)**

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A. CAB identifier: CN0056.



## 2. Test Summary

FCC Part 15 Subpart C(15.225)				
Standard Section	Test Item	Test Sample(s)	Judgment	Remark
FCC				
15.207(a)	Conducted Emission	N/A	N/A	N/A
15.209(a)&15.225	Radiated emissions	HC-C-202412-0153-01-01#	PASS	N/A
15.225(a)	Fundamental field strength limit	HC-C-202412-0153-01-01#	PASS	N/A
15.225(e)	Fundamental frequency tolerance	HC-C-202412-0153-01-01#	PASS	N/A
15.225	Band edge compliance	HC-C-202412-0153-01-01#	PASS	N/A
15.215(c)	Occupied bandwidth	HC-C-202412-0153-01-01#	PASS	N/A

**Note:** N/A is an abbreviation for Not Applicable.

## 3. Test Software

Test Item	Test Software	Manufacturer	Version No.
Conducted Emission	EZ-EMC	EZ	CDI-03A2
Radiation Emission	EZ-EMC	EZ	FA-03A2RE
RF Conducted Measurement	MTS-8310	MWRFtest	V2.0.0.0
RF Test System	JS1120	Tonscend	V2.6.88.0336



## 4. Test Equipment and Test Site

Test Site				
No.	Test Site	Manufacturer	Specification	Used
TB-EMCSR001	Shielding Chamber #1	YIHENG	7.5*4.0*3.0 ( m )	✓
TB-EMCSR002	Shielding Chamber #2	YIHENG	8.0*4.0*3.0 ( m )	✓
TB-EMCCA001	3m Anechoic Chamber #A	ETS	9.0*6.0*6.0 ( m )	X
TB-EMCCB002	3m Anechoic Chamber #B	YIHENG	9.0*6.0*6.0 ( m )	✓

### Radiation Emission Test(B Site)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	N9020A	MY49100060	Aug. 29, 2024	Aug. 28, 2025
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102197	Jun. 17, 2024	Jun. 16, 2025
EMI Test Receiver	Rohde & Schwarz	ESU-8	100472/008	Feb. 23, 2024	Feb.22, 2025
Bilog Antenna	SCHWARZBECK	VULB 9168	1225	Nov. 13, 2023	Nov. 12, 2025
Horn Antenna	SCHWARZBECK	BBHA 9120 D	2463	Jun. 14, 2024	Jun. 13, 2026
Horn Antenna	SCHWARZBECK	BBHA 9170	1118	Feb. 27, 2024	Feb.26, 2026
Loop Antenna	SCHWARZBECK	FMZB 1519 B	1519B-059	Jun. 14, 2024	Jun. 13, 2026
HF Amplifier	Tonscend	TAP9E6343	AP21C806117	Aug. 29, 2024	Aug. 28, 2025
HF Amplifier	Tonscend	TAP051845	AP21C806141	Aug. 29, 2024	Aug. 28, 2025
HF Amplifier	Tonscend	TAP0184050	AP21C806129	Aug. 29, 2024	Aug. 28, 2025
Highpass Filter	CD	HPM-6.4/18G	---	N/A	N/A
Highpass Filter	CD	HPM-2.8/18G	---	N/A	N/A
Highpass Filter	XINBO	XBLBQ-HTA67(8-25G)	22052702-1	N/A	N/A

### Antenna Conducted Emission

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102197	Jun. 17, 2024	Jun. 16, 2025
MXA Signal Analyzer	KEYSIGHT	N9020B	MY60110172	Aug. 29, 2024	Aug. 28, 2025
MXA Signal Analyzer	Agilent	N9020A	MY47380425	Aug. 29, 2024	Aug. 28, 2025
RF Power Sensor	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO26	Aug. 29, 2024	Aug. 28, 2025
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO29	Aug. 29, 2024	Aug. 28, 2025
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO31	Aug. 29, 2024	Aug. 28, 2025
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO33	Aug. 29, 2024	Aug. 28, 2025
Temperature and Humidity Chamber	ZhengHang	ZH-QTH-1500	ZH2107264	Jun. 17, 2024	Jun. 16, 2025



## 5. Conducted Emission Test

### 5.1 Test Standard and Limit

#### 5.1.1 Test Standard

FCC Part 15.207

#### 5.1.2 Test Limit

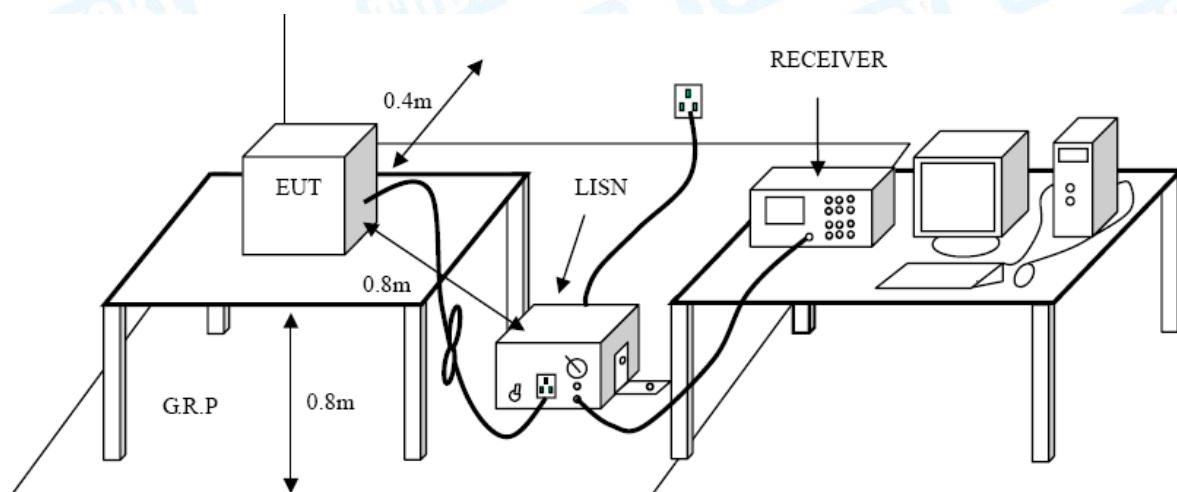
**Conducted Emission Test Limit**

Frequency	Maximum RF Line Voltage (dB $\mu$ V)	
	Quasi-peak Level	Average Level
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Notes:

- (1) \*Decreasing linearly with logarithm of the frequency.
- (2) The lower limit shall apply at the transition frequencies.
- (3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

### 5.2 Test Setup



### 5.3 Test Procedure

The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

LISN at least 80 cm from nearest part of EUT chassis.

The bandwidth of EMI test receiver is set at 9 kHz, and the test frequency band is from 0.15MHz to 30MHz.

### 5.4 Deviation From Test Standard

No deviation

### 5.5 EUT Operating Mode

Please refer to the description of test mode.

### 5.6 Test Data

N/A.



## 6. Radiated Emission Test

### 6.1 Test Standard and Limit

#### 6.1.1 Test Standard

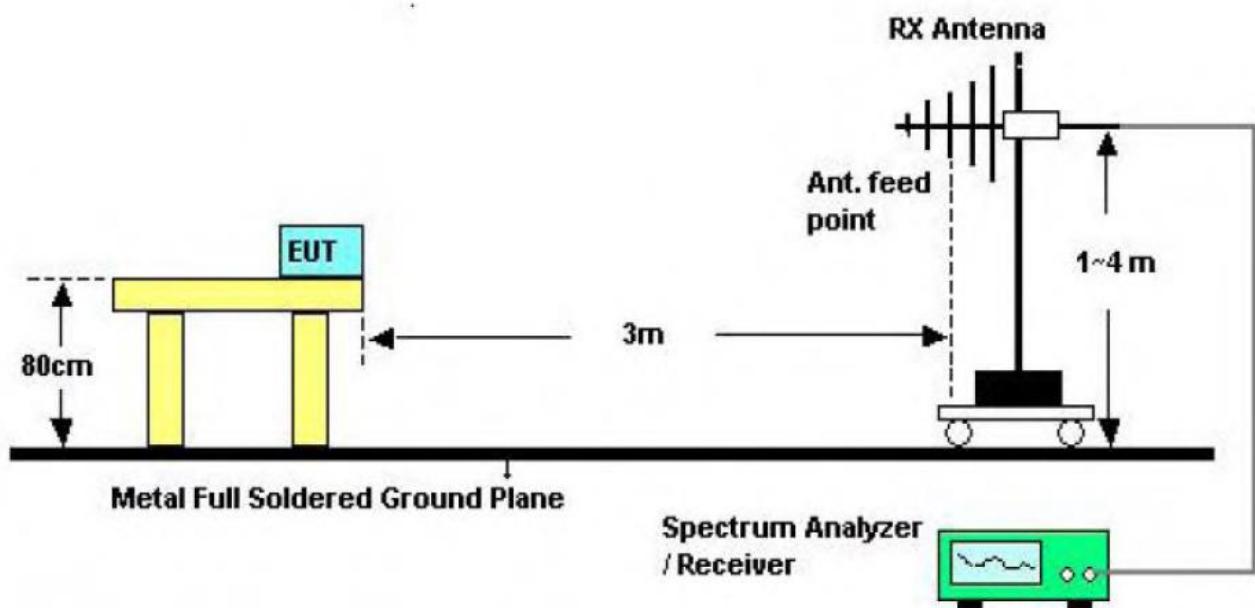
FCC Part 15.209(a)&15.225

#### 6.1.2 Test Limit

#### Radiated Emission Limits (30MHz~1000MHz)

Frequency Range (MHz)	E-field Strength Limit @ 3m (mV/m)	E-field Strength Limit @ 3m (dB $\mu$ V/m)	E-field Strength Limit @ 10m (dB $\mu$ V/m)
30-88	100	40	30
88-216	150	43.5	33.5
216-960	200	46	36
960-1000	500	54	44

### 6.2 Test Setup



Below 1000MHz Test Setup



### 6.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1 GHz. The EUT was placed on a rotating 0.8m high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (3) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- (4) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Below 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (5) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (6) For the actual test configuration, please see the test setup photo.

### 6.4 Deviation From Test Standard

No deviation

### 6.5 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.

### 6.6 Test Data

Please refer to the Attachment A.



## 7. Electric Field Strength of Fundamental and Outside the Allocated bands

### 7.1 Test Standard and Limit

#### 7.1.1 Test Standard

FCC Part 15.225(a)

FCC Part 15.225

#### 7.1.2 Test Limit

##### Electric Field Strength of Fundamental

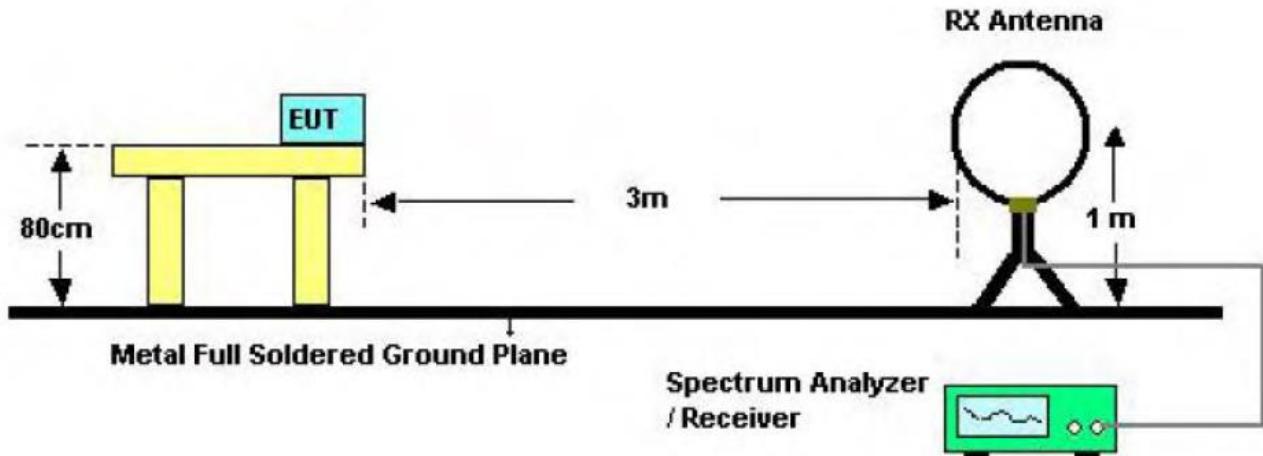
Frequency Range (MHz)	E-field Strength Limit(µV/m)	E-field Strength Limit@3m (dBµV/m)
0.009-0.490	2400/F(kHz)@300m	129~94
0.490-1.705	24000/F(kHz)@30m	74~63
1.705-30	30@30m	70
Note: Where the limits have been defined at one distance, and a signal level measured at another, the limits have been extrapolated using the following formula: Extrapolation(dB)=40log <sub>10</sub> (Measurement Distance/Specification Distance)		
3m to 300m Extrapolation(dB)=80dB 3m to 30m Extrapolation(dB)=40dB		

##### Outside the Allocated bands

Frequency Range (MHz)	E-field Strength Limit @ 30 m (µV/m)	E-field Strength Limit @ 3 m (dBµV/m)
13.560 ± 0.007	+15,848	124
13.410 to 13.553		
13.567 to 13.710	+334	90
13.110 to 13.410		
13.710 to 14.010	+106	81
Note: Where the limits have been defined at one distance, and a signal level measured at another, the limits have been extrapolated using the following formula: Extrapolation(dB) = 40log <sub>10</sub> (Measurement Distance/Specification Distance)		



## 7.2 Test Setup



## 7.3 Test Procedure

The transmitter carrier output levels (E-Field) from the EUT are measured in a semi-anechoic chamber. The EUT is placed on a non-conductive stand of 80cm high, and at a measurement distance of 3m from the receiving antenna. The center of the receiving loop antenna is 1.0 meter above the ground. The E-field is measured with a shielded loop antenna connected to a measurement receiver. Detected E-field was maximized by rotating the EUT through 360° and adjusting the receiving antenna polarizations. The maximization processes were repeated with the EUT positioned respectively in its three orthogonal axes. The measurements were performed with the peak detector and if required, the quasi-peak detector.

## 7.4 Deviation From Test Standard

No deviation

## 7.5 EUT Operating Condition

The measurement of EUT is carried out under the transmit state of NFC.

## 7.6 Test Data

Please refer to the Attachment B.

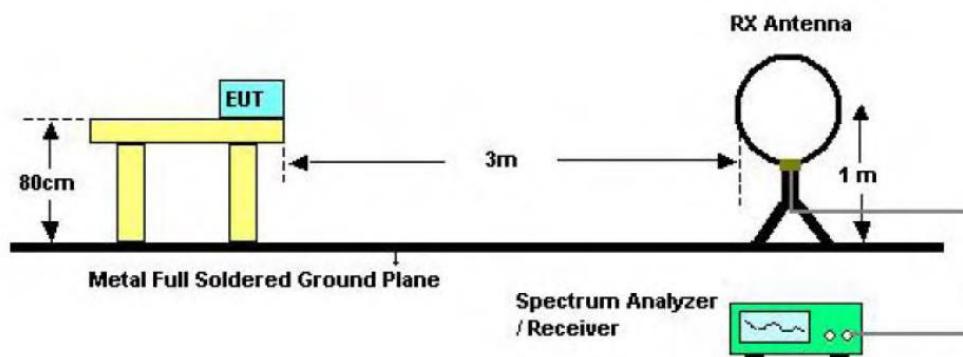


## 8. Occupied Bandwidth Test

### 8.1 Test Standard and Limit

- 8.1.1 Test Standard  
FCC Part 15.215 (c)

### 8.2 Test Setup



### 8.3 Test Procedure

The EUT is turned ON and connected to measurement instrument; the center frequency of the spectrum analyzer is set to the fundamental frequency. The captured power is measured and recorded; the measurement is repeated until all frequencies required were complete.

1. RBW used in the range of 1% to 5% of the anticipated emission bandwidth
2. Set the video bandwidth (VBW)  $\geq 3 \times \text{RBW}$ .
3. Detector = Peak.
4. Trace mode = Max Hold.
5. Sweep = Auto couple.
6. Allow the trace to stabilize.
7. OBW 99% function of spectrum analyzer used

### 8.4 Deviation From Test Standard

No deviation

### 8.5 EUT Operating Condition

The measurement of EUT is carried out under the transmit state of NFC.

### 8.6 Test Data

Please refer to the Attachment C.



## 9. Fundamental Frequency Tolerance

### 9.1 Test Standard and Limit

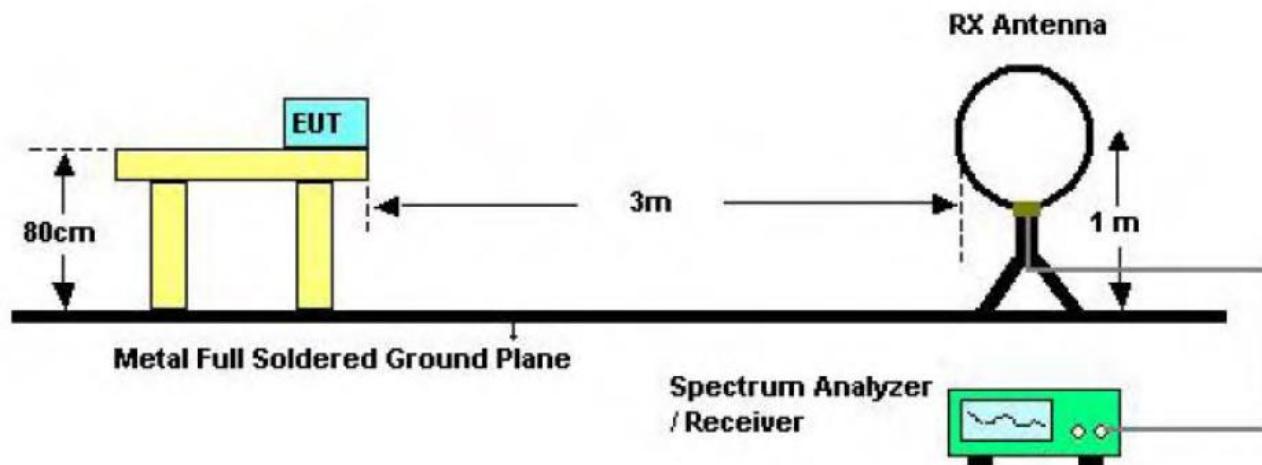
#### 9.1.1 Test Standard

FCC Part 15.225 (e)

#### 9.1.2 Test Limit

The frequency tolerance of the carrier signal shall be maintained within  $\pm 0.01\%$  of the operating frequency.

### 9.2 Test Setup



### 9.3 Test Procedure

The transmitter output signal was picked up by coil antenna connected to the frequency counter. The center frequency was measured with 30Hz RBW and 1kHz span. During the test, the EUT was placed in a thermal chamber until thermal balance and lasting appropriate time.

### 9.4 Deviation From Test Standard

No deviation

### 9.5 EUT Operating Condition

The EUT was set to continuously transmitting in the max power during the test.

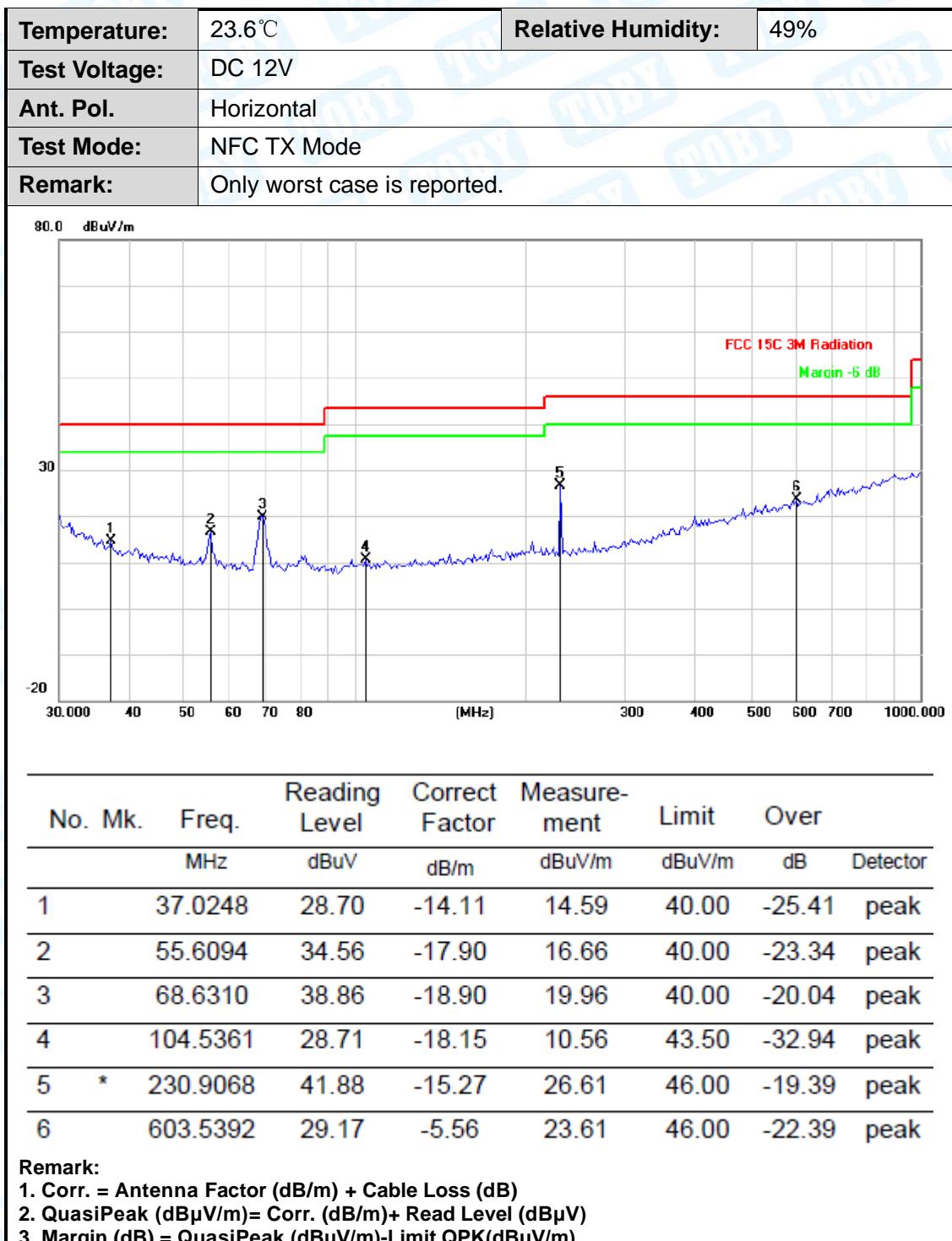
### 9.6 Test Data

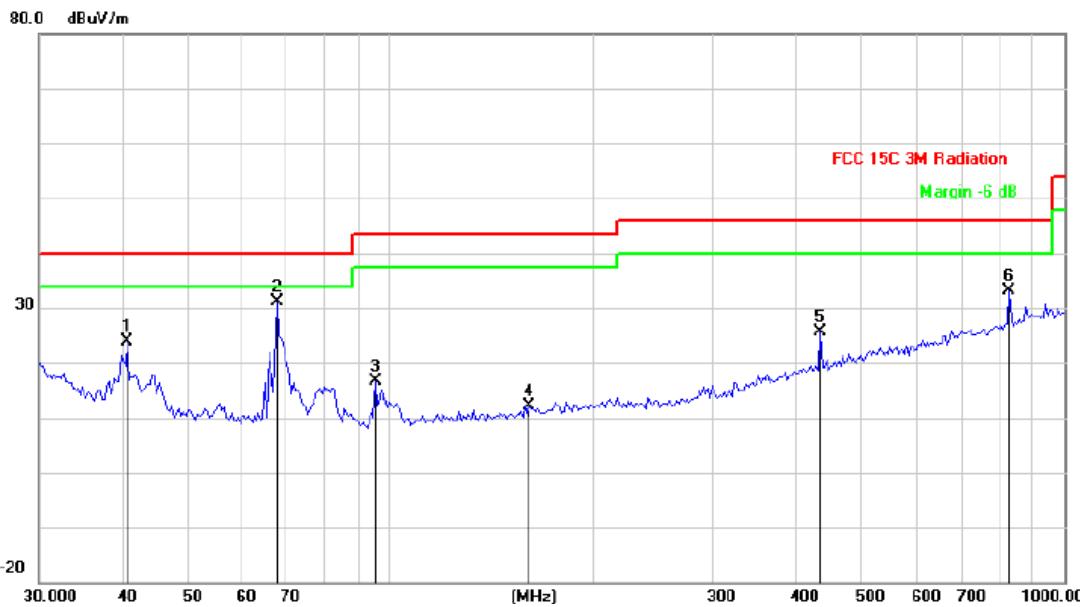
Please refer to the Attachment D.



## Attachment A-- Radiated Emission Test Data

30MHz~1GHz



Temperature:	23.6°C	Relative Humidity:	49%				
Test Voltage:	DC 12V						
Ant. Pol.	Vertical						
Test Mode:	NFC TX Mode						
Remark:	Only worst case is reported.						
							
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over
		MHz	dB $\mu$ V	dB/m	dB $\mu$ V/m	dB	Detector
1		40.5591	39.60	-15.71	23.89	40.00	-16.11 peak
2	*	67.6751	50.07	-18.87	31.20	40.00	-8.80 peak
3		94.7601	35.56	-18.85	16.71	43.50	-26.79 peak
4		160.3456	28.74	-16.73	12.01	43.50	-31.49 peak
5		434.0651	34.39	-8.70	25.69	46.00	-20.31 peak
6		827.4934	34.37	-1.28	33.09	46.00	-12.91 peak

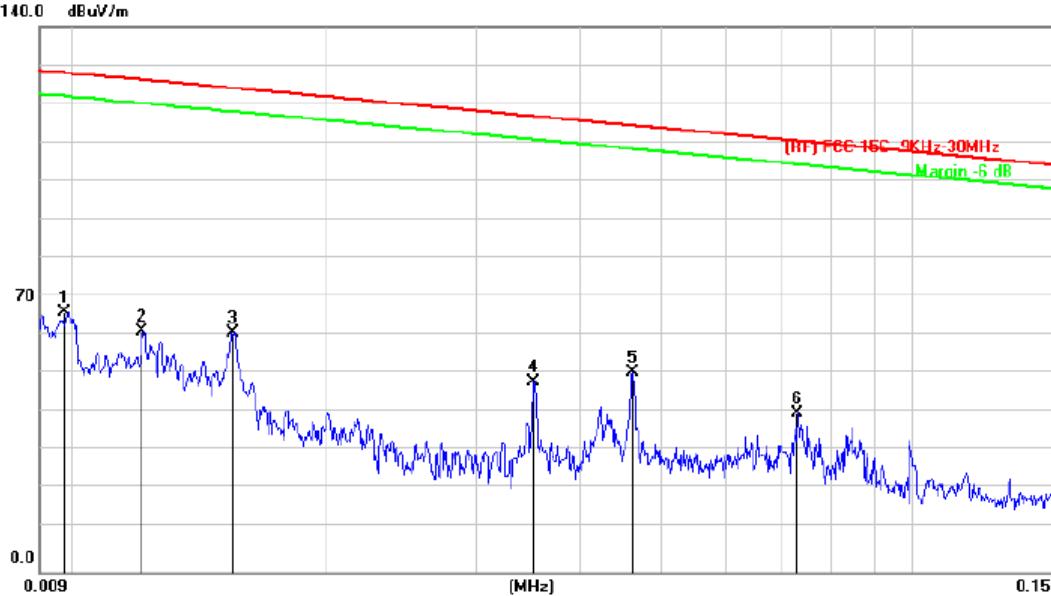
Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. QuasiPeak (dB $\mu$ V/m)= Corr. (dB/m)+ Read Level (dB $\mu$ V)
3. Margin (dB) = QuasiPeak (dB $\mu$ V/m)-Limit QPK(dB $\mu$ V/m)



## Attachment B--Electric Field Strength of Fundamental and Outside the Allocated bands

### (1) Electric Field Strength of Fundamental

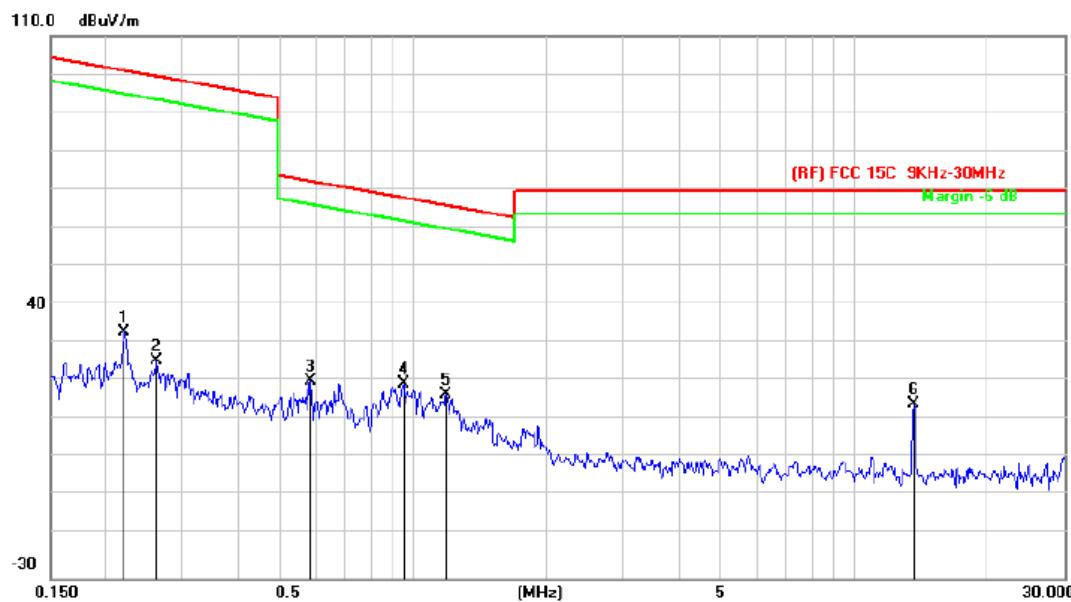
Temperature:	23.6°C	Relative Humidity:	49%				
Test Voltage:	DC 12V						
Ant. Pol.	Ant. 0°						
Test Mode:	NFC TX Mode						
Remark:	N/A						
							
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dB	Detector
1	*	0.0097	97.33	-30.70	66.63	128.15	-61.52 peak
2		0.0120	73.38	-11.50	61.88	126.30	-64.42 peak
3		0.0154	72.94	-11.49	61.45	124.13	-62.68 peak
4		0.0352	60.42	-11.47	48.95	116.93	-67.98 peak
5		0.0463	62.65	-11.50	51.15	114.54	-63.39 peak
6		0.0728	52.15	-11.47	40.68	110.60	-69.92 peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. QuasiPeak (dB $\mu$ V/m)= Corr. (dB/m)+ Read Level (dB $\mu$ V)
3. Margin (dB) = QuasiPeak (dB $\mu$ V/m)-Limit QPK(dB $\mu$ V/m)



<b>Temperature:</b>	23.6°C	<b>Relative Humidity:</b>	49%
<b>Test Voltage:</b>	DC 12V		
<b>Ant. Pol.</b>	Ant. 0°		
<b>Test Mode:</b>	NFC TX Mode		
<b>Remark:</b>	N/A		



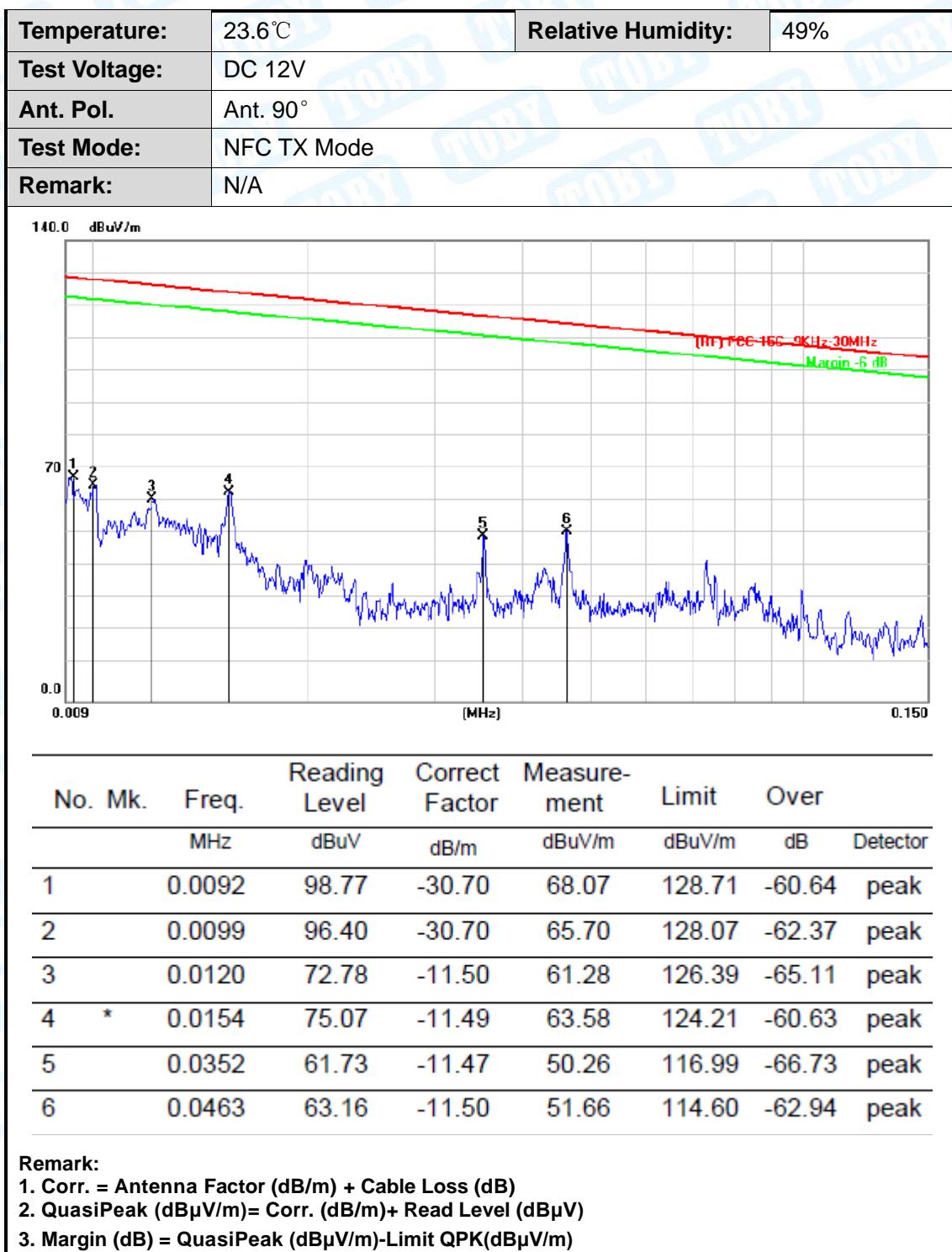
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1		0.2208	44.98	-11.58	33.40	100.96	-67.56
2		0.2615	37.73	-11.69	26.04	99.48	-73.44
3		0.5823	32.72	-11.86	20.86	72.48	-51.62
4	*	0.9481	32.07	-11.90	20.17	68.18	-48.01
5		1.1844	29.18	-11.92	17.26	66.21	-48.95
6		13.6228	27.57	-12.53	15.04	70.00	-54.96

### Remark:

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. QuasiPeak (dB $\mu$ V/m) = Corr. (dB/m) + Read Level (dB $\mu$ V)
3. Margin (dB) = QuasiPeak (dB $\mu$ V/m) - Limit QPK(dB $\mu$ V/m)





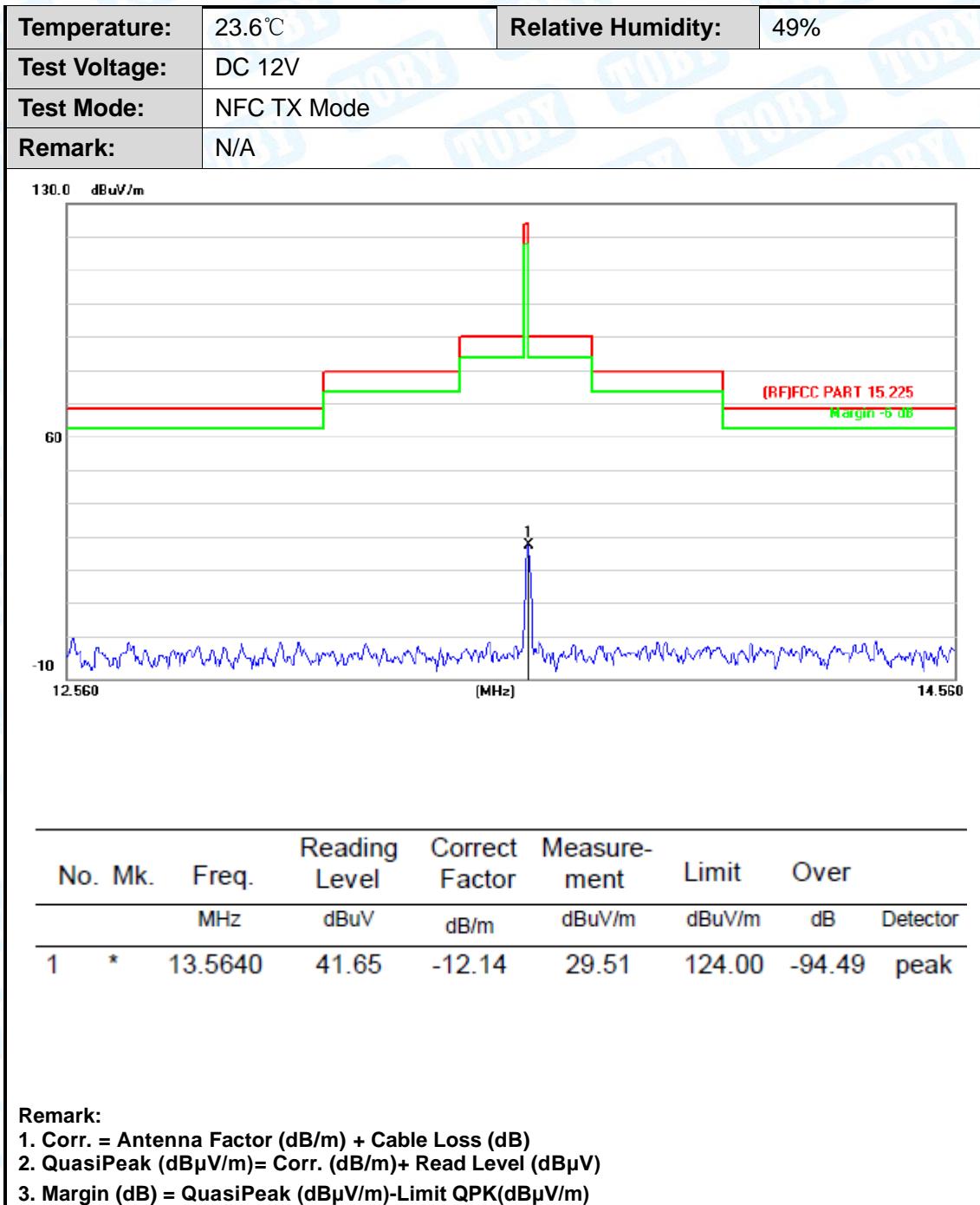
Temperature:	23.6°C	Relative Humidity:	49%				
Test Voltage:	DC 12V						
Ant. Pol.	Ant. 90°						
Test Mode:	NFC TX Mode						
Remark:	N/A						
 <p>(RF) FCC 15C 9KHz-30MHz Margin -5 dB</p>							
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dB	Detector
1		0.1924	38.58	-11.50	27.08	102.16	-75.08 peak
2		0.2197	42.25	-11.58	30.67	101.00	-70.33 peak
3		0.2773	33.49	-11.74	21.75	98.97	-77.22 peak
4		0.6719	29.84	-11.88	17.96	71.21	-53.25 peak
5	*	1.1719	31.37	-11.92	19.45	66.31	-46.86 peak
6		13.6228	27.31	-12.53	14.78	70.00	-55.22 peak

**Remark:**

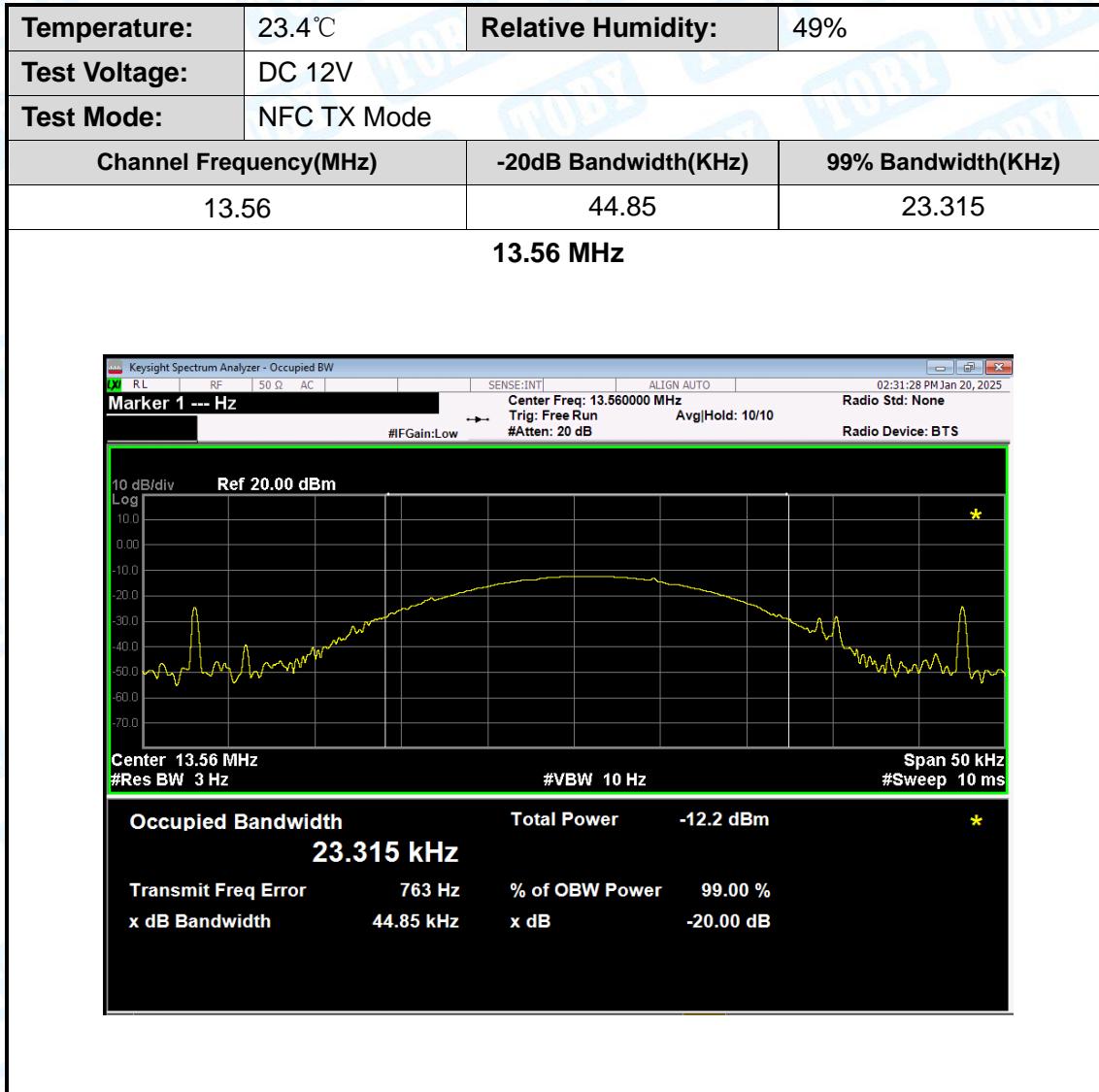
1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. QuasiPeak (dB $\mu$ V/m)= Corr. (dB/m)+ Read Level (dB $\mu$ V)
3. Margin (dB) = QuasiPeak (dB $\mu$ V/m)-Limit QPK(dB $\mu$ V/m)



## (2) Test Fundamental and Outside the Allocated bands



## Attachment C-- Bandwidth Test Data



## Attachment D--Fundamental Frequency Tolerance

Frequency Stability Versus Temperature					
Temperature (°C)	Power Supply(V)	Measured Frequency	Frequency Drift	Limit	Result
		(MHz)	%		
50	DC 12V	13.5601741	0.00128392	0.01	PASS
40		13.5601865	0.00137537	0.01	PASS
30		13.5601885	0.00139012	0.01	PASS
20		13.5601869	0.00137832	0.01	PASS
10		13.5601896	0.00139823	0.01	PASS
0		13.5601912	0.00141003	0.01	PASS
-10		13.5601836	0.00135398	0.01	PASS
-20		13.5601877	0.00138422	0.01	PASS
Frequency Stability Versus Temperature					
Temperature (°C)	Power Supply(V)	Measured Frequency	Frequency Drift	Limit	Result
		(MHz)	%		
20	DC 10.8	13.5601856	0.00136873	0.01	PASS
	DC 12.0	13.5601881	0.00138717	0.01	PASS
	DC 13.2	13.5601832	0.00135103	0.01	PASS

-----END OF REPORT-----

