FCC Part 15C

Measurement And Test Report For

NEAREX PTE LTD.

80B Bencoolen Street, #12-05 The Bencoolen, Singapore 189648

FCC ID: 2AFM3XIPPOS

May 25, 2015

This Report Concerns: ☑ Original Report	Equipment Type: XipPos
Report Number:	MTI150504001RF-2
Test Engineer:	Bill Chen
Reviewed By:	Jason Zheng Jason Zheng
Approved & Authorized By:	Hebe Lee Hebe Lee
Test Date:	May 08, 2015 - May 25, 2015
Prepared By:	Shenzhen Microtest Technology Co.,Ltd 6F, Zhongbao Building, Gushu, Bao' an District, Shenzhen, P.R.China Tel: +86-755-8885 0135
	Fax: +86-755-8885 0136

Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior written consent of Shenzhen Microtest Technology Co.,Ltd.

TEST RESULT CERTIFICATION					
Applicant's name:	NEAREX PTE LTD.				
Address:	80B Bencoolen Street, #12-05 The Bencoolen, Singapore 189648				
Manufacture's Name:	NEAREX PTE LTD.				
Address:	80B Bencoolen Street, #12-05 The Bencoolen, Singapore 189648				
Product description					
Product name	XipPos				
Model and/or type reference :	XipPos				
Serial Model:	N/A				
Standards:	FCC Part15.225				
Test procedure	ANSI C63.4-2009				

Report No.: MTI150504001RF-2

Page 2 of 25

Table of Contents

	Page
1 . SUMMARY OF TEST RESULTS	5
1.1 TEST FACILITY	5
1.2 MEASUREMENT UNCERTAINTY	5
2 . GENERAL INFORMATION	6
2.1 GENERAL DESCRIPTION OF EUT	6
2.2 DESCRIPTION OF TEST MODES	7
2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTE	.D 8
2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)	9
2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS	10
3 . EMC EMISSION TEST	11
3.1 CONDUCTED EMISSION MEASUREMENT	11
3.1.1 POWER LINE CONDUCTED EMISSION LIMITS	11
3.1.2 TEST PROCEDURE 3.1.3 DEVIATION FROM TEST STANDARD	12 12
3.1.4 TEST SETUP	12
3.1.5 EUT OPERATING CONDITIONS	12
3.1.6 TEST RESULTS	13
3.2 RADIATED EMISSION MEASUREMENT 3.2.1 RADIATED EMISSION LIMITS	15 15
3.2.2 TEST PROCEDURE	15 15
3.2.3 DEVIATION FROM TEST STANDARD	16
3.2.4 TEST SETUP	17
3.2.5 EUT OPERATING CONDITIONS 3.2.6 TEST RESULTS (BETWEEN 9KHZ – 30 MHZ)	18 19
3.2.7 TEST RESULTS (BETWEEN 30MHZ – 1GHZ)	20
4 . 20 DB OCCUPY BANDWIDTH	21
4.1 APPLIED PROCEDURES / LIMIT	21
4.1.1 TEST PROCEDURE	21
4.1.2 DEVIATION FROM STANDARD	21
4.1.3 TEST SETUP 4.1.4 EUT OPERATION CONDITIONS	21 21
4.1.5 TEST RESULTS	22
5 . FREQUENCY STABILITY TOLERANCE	23
5.1 APPLIED PROCEDURES / LIMIT	23
5.1.1 TEST PROCEDURE	23
5.1.2 DEVIATION FROM STANDARD 5.1.3 TEST SETUP	23 23
5.1.4 EUT OPERATION CONDITIONS	23

Table of Contents

	Page
5.1.5 TEST RESULTS	24
6 . ANTENNA REQUIREMENT	25
6.1 STANDARD REQUIREMENT	25
6.2 EUT ANTENNA	25

Report No.: MTI150504001RF-2 Page 4 of 25

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.225) , Subpart C					
Standard Section	Judgment	Remark			
15.203/15.225(c)	Antenna Requirement	PASSED			
15.215	20dB Bandwidth	PASSED			
15.225(a)	In-Band Emissions	PASSED			
15.225(b)	In-Band Emissions	PASSED			
15.225(c)	In-Band Emissions	PASSED			
15.225(d)/15.209	Out of Band Emissions	PASSED			
15.225(e)	Frequency Stability Tolerance	PASSED			
15.207	Power Line Conducted Emission	PASSED			

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

1.1 TEST FACILITY

Shenzhen Toby Technology Co., Ltd.

Add.: 10/F., A Block, Jiada R&D Bldg., No.5 Songpingshan, Road, Science&Technology Park,

Shenzhen, 518057

FCC Registration No.:811562

1.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%

Report No.: MTI150504001RF-2 Page 5 of 25

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	XipPos		
Trade Name	N/A		
Model Name	XipPos		
Serial Model	N/A		
Model Difference	N/A		
Product Description The EUT is a XipPos Operation Frequency: 13.56MHz Modulation Type: ASK Number Of Channel 1CH Antenna Designation: Please see Note 10 Output Power(Conducted): Antenna Gain (dBi) 0dbi		ASK 1CH Please see Note 3. N/A Odbi n, features, or specification exhibited in is considered as an ITE/Computing EUT technical specification, please	
Channel List	refer to the User's Manual. Please refer to the Note 2.		
Adapter	Model: K-T50501000U1 Input: 100-240V~50-60Hz 0.15A Max Output: 5V===1000mA		
Battery	DC 3.7V, 600mAh		
Connecting I/O Port(s)	Please refer to the User's Manual		

Note:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
 - 2. Channel List

13.56MHz

3. Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
Α	N/A	N/A	Internal antenna	Internal antenna	0	NFC Antenna

Report No.: MTI150504001RF-2 Page 6 of 25

2.2 DESCRIPTION OF TEST MODES

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 above was evaluated respectively.

Pretest Mode	Description
Mode 1	NFC mode

For Conducted Emission		
Final Test Mode	Description	
Mode 1	NFC mode	

For Radiated Emission		
Final Test Mode	Description	
Mode 1	NFC mode	

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported

Report No.: MTI150504001RF-2 Page 7 of 25

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



Report No.: MTI150504001RF-2 Page 8 of 25

2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Brand	Model/Type No.	Series No.	Note
E-1	XipPos	N/A	XipPos	N/A	EUT
E-2	Adapter	N/A	K-T50501000U1	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	0.8m	
C-2	NO	NO	0.8m	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>"Length_"</code> column.

Report No.: MTI150504001RF-2 Page 9 of 25

2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal	Cal.Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Mar. 20, 2015	Mar. 19, 2016
Spectrum Analyzer	ROHDE&SCHWARZ	FSP30	DE25181	Aug. 10, 2014	Aug. 09, 2015
EMI Test Receiver	ROHDE&SCHWARZ	ESCI	101165	Aug. 10, 2014	Aug. 09, 2015
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar. 07, 2015	Mar. 06, 2016
Bilog Antenna	ETS-LINDGREN	3142E	00117542	Mar. 07, 2015	Mar. 06, 2016
Hom Antenna	ETS-LINDGREN	3117	00143207	Mar. 07, 2015	Mar. 06, 2016
Hom Antenna	ETS-LINDGREN	3117	00143209	Mar. 07, 2015	Mar. 06, 2016
Pre-anplifier	HP	11909A	185903	Mar. 07, 2015	Mar. 06, 2016
Pre-anplifier	HP	8447B	3008A00849	Mar. 07, 2015	Mar. 06, 2016
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar. 07, 2015	Mar. 06, 2016
Signal Generator	ROHDE&SCHWARZ	SML03	IKW682-054	Feb. 11, 2015	Feb. 10, 2016
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A

Conduction Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal	Cal.Due Date
EMI Test Receiver	ROHDE&SCHWARZ	ESCI	1000321	2014-08-10	2015-08-09
50Ω Coaxial Switch	Anntsu	MP59B	X10321	2014-08-10	2015-08-09
LISN	ROHDE&SCHWARZ	ENV216	101131	2014-08-10	2015-08-09
LISN	SCHWARZBECK	NNBL 8226-2	8226-2/164	2014-08-10	2015-08-09

Report No.: MTI150504001RF-2 Page 10 of 25

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard
FREQUENCT (MINZ)	Quasi-peak	Average	Quasi-peak	Average	Statiuatu
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

Report No.: MTI150504001RF-2 Page 11 of 25

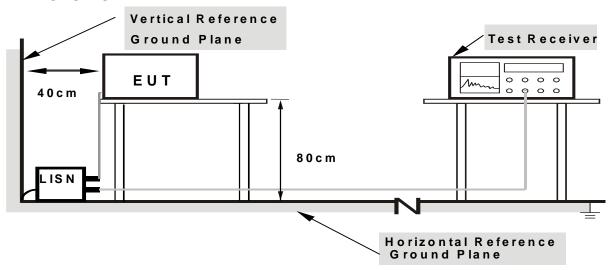
3.1.2 TEST PROCEDURE

- a. 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.
- b. 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.
- c. 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.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

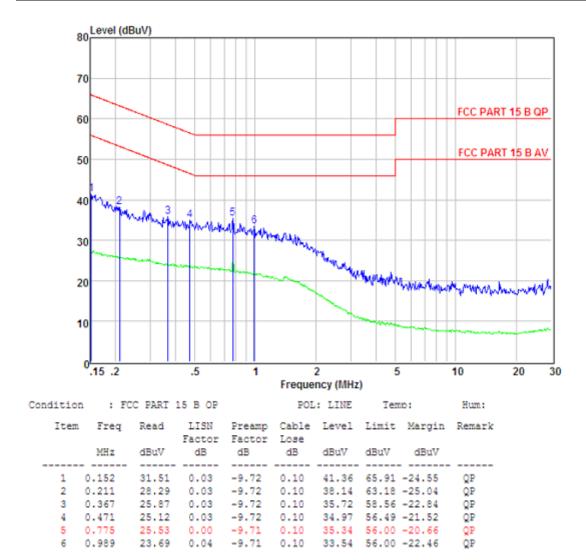
3.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

Report No.: MTI150504001RF-2 Page 12 of 25

3.1.6 TEST RESULTS

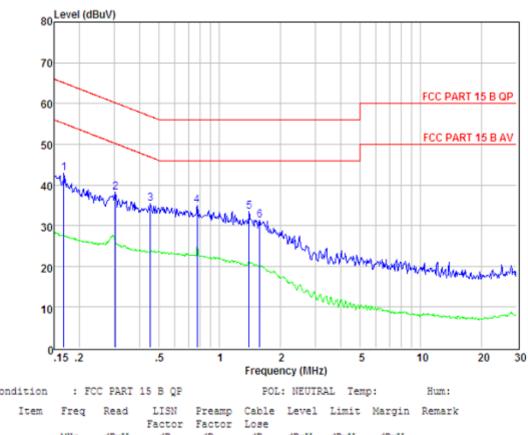
EUT:	XipPos	Model Name. :	XipPos
Temperature :	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
Test Voltage :	DC 5Vfrom adapter AC 120V/60Hz	Test Mode:	Mode 4



Remarks: Level = Read + LISN Factor - Preamp Factor + Cable loss

Report No.: MTI150504001RF-2 Page 13 of 25

EUT:	XipPos	Model Name. :	XipPos
Temperature:	26 ℃	Relative Humidity:	54%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5Vfrom adapter AC 120V/60Hz	Test Mode:	Mode 4



Condition	n : F0	C PART	15 B QP		POL	: NEUTR	AL Tem	p:	Hum:
Item	Freq	Read		Preamp Factor		Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	0.168	33.04	0.03	-9.72	0.10	42.89	65.08	-22.19	QP
2	0.303	28.30	0.03	-9.72	0.10	38.15	60.15	-22.00	QP
3	0.452	25.44	0.03	-9.72	0.10	35.29	56.85	-21.56	QP
4	0.775	25.18	0.00	-9.71	0.10	34.99	56.00	-21.01	QP
5	1.403	23.65	0.05	-9.71	0.10	33.51	56.00	-22.49	QP
6	1.585	21.35	0.05	-9.71	0.10	31.21	56.00	-24.79	QP

Remarks: Level = Read + LISN Factor - Preamp Factor + Cable loss

3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(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

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted	4 Mile /4 Mile for Dook 4 Mile / 401/e for Avorage
band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

3.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. 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.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Report No.: MTI150504001RF-2 Page 15 of 25

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

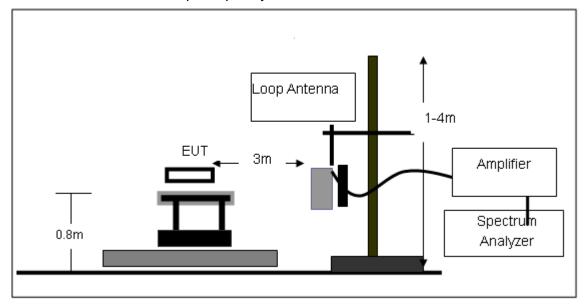
3.2.3 DEVIATION FROM TEST STANDARD

No deviation

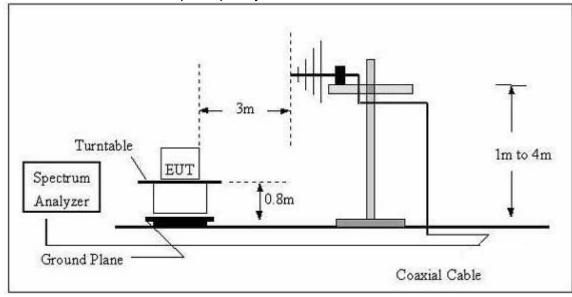
Report No.: MTI150504001RF-2 Page 16 of 25

3.2.4 TEST SETUP

(A) Radiated Emission Test-Up Frequency Below 30MHz

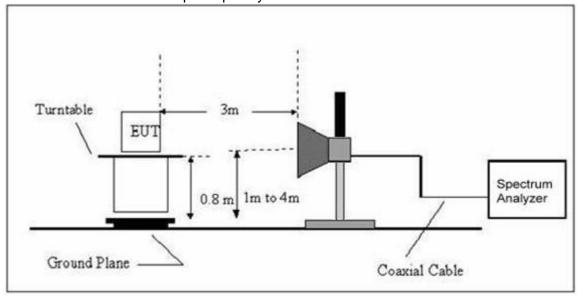


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



Report No.: MTI150504001RF-2 Page 17 of 25

(C) Radiated Emission Test-Up Frequency Above 1GHz



3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

Report No.: MTI150504001RF-2 Page 18 of 25

3.2.6 TEST RESULTS (BETWEEN 9KHZ – 30 MHZ)

EUT:	XipPos	Model Name. :	XipPos
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	LIAST VALTADA .	DC 5Vfrom adapter AC 120V/60Hz
Test Mode:	TX	Polarization :	

EUT:	XipPos	Model Name :	XipPos
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage:	DC 5Vfrom adapter
Test Mode:	TX		

Frequency band (0.009-1.705MHz)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре
		-				-	QP

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level- Limit

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

Factor added by measurement software automatically

No data in this table means only noise floor detected in this band

Frequency band	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(1.705-30MHz)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре
	13.56	21.65	26.85	48.50	90.50	42.00	QP

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level- Limit

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Factor added by measurement software automatically

NOTE:

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

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

Limit line = specific limits(dBuv) + distance extrapolation factor.

Report No.: MTI150504001RF-2 Page 19 of 25

3.2.7 TEST RESULTS (BETWEEN 30MHZ - 1GHZ)

EUT:	XipPos	Model Name :	XipPos
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage:	DC 5Vfrom adapter
Test Mode:	TX		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре
V	136.7324	13.74	11.37	25.11	43.5	-18.39	QP
V	167.1467	21.23	13.63	34.86	43.5	-8.64	QP
V	392.6245	15.53	16.73	32.26	46	-13.74	QP
V	512.4582	13.33	22.25	35.58	46	-10.42	QP
V	921.2744	15.72	25.87	41.59	46	-4.41	QP
Н	176.6637	12.62	13.92	26.54	43.5	-16.96	QP
Н	352.7958	21.15	16.88	38.03	46	-7.97	QP
Н	462.3472	17.92	18.94	36.86	46	-9.14	QP
Н	648.2362	11.25	23.62	34.87	46	-11.13	QP
Н	873.5442	14.15	24.18	38.33	46	-7.67	QP

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level- Limit

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

Factor added by measurement software automatically

Report No.: MTI150504001RF-2 Page 20 of 25

4. 20 DB OCCUPY BANDWIDTH

4.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.215) , Subpart C						
Section	Test Item	Limit	Frequency Range (MHz)	Result		
15.215	20dB bandwidth	/	13.56	PASS		

4.1.1 TEST PROCEDURE

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Spectrum Setting: Bandwidth: RBW=30 kHz, VBW=100 kHz, detector= Peak

4.1.2 DEVIATION FROM STANDARD

No deviation.

4.1.3 TEST SETUP



4.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

Report No.: MTI150504001RF-2 Page 21 of 25

4.1.5 TEST RESULTS

EUT:	XipPos	Model Name :	XipPos
Temperature:	25 ℃	Relative Humidity:	60%
Pressure :	1015 hPa	Test Voltage :	DC 5Vfrom adapter
Test Mode :	NFC mode		

Frequency (MHz)	20dB Bandwidth (KHz)	Limit	Result
13.56	196	/	PASS

Report No.: MTI150504001RF-2 Page 22 of 25

5. FREQUENCY STABILITY TOLERANCE

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.225) , Subpart C						
Section	Test Item	Limit	Frequency Range (MHz)	Result		
15.225(e)	Frequency Stability Tolerance	±0.01% of carrier	13.56	PASS		

5.1.1 TEST PROCEDURE

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Spectrum Setting: RBW=100 kHz, VBW=300 kHz, detector= Peak, Sweep Time =auto.
- (3) The EUT was set to the Hopping Mode for Channel Separation Test and continuously transmitting for the Test.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



5.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

Report No.: MTI150504001RF-2 Page 23 of 25

5.1.5 TEST RESULTS

EUT:	XipPos	Model Name :	XipPos
Temperature:	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 5Vfrom adapter
Test Mode :	NFC mode		

Frequency Stability VS Voltage:

,	J				
Mode	Voltage (Vdc)	Temperature (° C)	Test Result (KHz)	Deviation (kHz)	Result
	3.2	25	13560.01	0.01	Pass
NFC	3.7	25	13560.01	0.01	Pass
	4.2	25	13559.98	0.02	Pass

Frequency Stability VS Temperature:

Mode	Temperature (° C)	Voltage (Vdc)	Test Result (KHz)	Deviation (kHz)	Result
NFC	-20	3.7	13560.01	0.01	Pass
	-10	3.7	13560.01	0.01	Pass
	0	3.7	13560.02	0.02	Pass
	10	3.7	13560.01	0.01	Pass
	20	3.7	13559.99	0.01	Pass
	30	3.7	13560.00	0.00	Pass
	40	3.7	13560.01	0.01	Pass
	50	3.7	13559.98	0.02	Pass

Remark: ±0.01% of 13.56MHz is 1.356KHz

Report No.: MTI150504001RF-2 Page 24 of 25

6. ANTENNA REQUIREMENT

6.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: 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.

6.2 EUT ANTENNA

The EUT antenna is External antenna(PIFA antenna,0dbi). It comply with the standard requirement. In case of replacement of broken antenna the same antenna type must be used.

Report No.: MTI150504001RF-2 Page 25 of 25