

# FCC Test Report FCC ID: 2AKC4-IT21B

Product: intelligent reader

Trade Mark: N/A

Model Number: i21B

Serial Model: N/A

**Report No.**: NTEK-2016NT12090522F3

### Prepared for

Shenzhen Itron Electronics Co.,Ltd.

Room A1208, Baohua Building, Huaqiang North Road,
Shenzhen,China

## Prepared by

NTEK Testing Technology Co., Ltd.

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Report No.: NTEK-2016NT12090522F3

# **TEST RESULT CERTIFICATION**

Applicant's name	Sherizhen itron Electronics Co.,Ltd.
Address:	Room A1208, Baohua Building, Huaqiang North Road, Shenzhen,China
Manufacturer's Name:	Shenzhen Itron Electronics Co.,Ltd.
Address:	Room A1208,Baohua Building,Huaqiang North Road, Shenzhen,China
Product description	
Product name:	intelligent reader
Model and/or type reference:	i21B
Standards:	FCC Part15B:01 Oct.2016 ANSI C63.4:2014
	as been tested by NTEK, and the test results show that the in compliance with Part 15 of FCC Rules. And it is applicable only to the report.
•	uced except in full, without the written approval of NTEK, this vised by NTEK, personnel only, and shall be noted in the revision of:
Date (s) of performance of tests.	: 09 Dec. 2016 ~ 19 Dec. 2016
Date of Issue	: 19 Dec. 2016
Test Result	: Pass
Testing Engine	eer: Susan Su (Susan Su)
	(Susan Su)
Technical Man	nager: Juson chen
	(Jason Chen)
Authorized Sig	gnatory: Sam. Chew
	(Sam Chen)



Table of Contents	Page
1.TEST SUMMARY	4
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 SETUP	8
2.3 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL	9
2.4 MEASUREMENT INSTRUMENTS LIST	10
3 . EMC EMISSION TEST	11
3.1 CONDUCTED EMISSION MEASUREMENT	11
3.1.1 POWER LINE CONDUCTED EMISSION	11
3.1.2 TEST PROCEDURE 3.1.3 TEST SETUP	12 12
3.1.4 EUT OPERATING CONDITIONS	12
3.1.5 TEST RESULTS	13
3.2 RADIATED EMISSION MEASUREMENT	17
3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT	17
3.2.2 TEST PROCEDURE	17
3.2.3 TEST SETUP	18
3.2.4 TEST RESULTS	19
3.2.5 TEST RESULTS(1000~25000MHz)	21
4 . EUT TEST PHOTO	22



## 1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission							
Standard	Test Item	Limit	Judgment	Remark			
FCC Part15B:01 Oct.2016 ANSI C63.4: 2014	Conducted Emission	Class B	PASS				
	Radiated Emission	Class B	PASS				

## NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report
- (2) For client's request and manual description, the test will not be executed.



#### 1.1 TEST FACILITY

NTEK Testing Technology Co., Ltd

Add.: 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

FCC Registration Number:238937; IC Registration Number:9270A-1

CNAS Registration Number:L5516

## 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  $\mathbf{k=2}$ , providing a level of confidence of approximately 95 %.

### A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKC01	ANSI	150 KHz ~ 30MHz	3.2	

#### B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKA01	ANSI	30MHz ~ 1000MHz	4.7	
		1GHz ~12.4GHz	5.0	



Page 6 of 23 Report No.: NTEK-2016NT12090522F3

# 2. GENERAL INFORMATION

# 2.1 GENERAL DESCRIPTION OF EUT

Equipment	intelligent reader				
Trade Mark	N/A				
Model Name	i21B				
Serial Model	N/A				
Model Difference	N/A				
	The EUT is a intelligent r	eader.			
	Connecting I/O port:	USB, DC in			
	Operation Frequency:	BT:2402~2480 MHz			
Product Description	Modulation Type:	BT(1Mbps)/BLE: GFSK			
		BT EDR(2Mbps): $\pi$ /4-DQPSK			
		BT EDR(3Mbps): 8-DPSK			
Power Source	DC 3.7V from battery or DC 5V from USB Port.				
Adapter	N/A				
Battery	DC 3.7V				
HW Version	V6.0				
SW Version	dACB429				



2.1.1 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	Normal Link

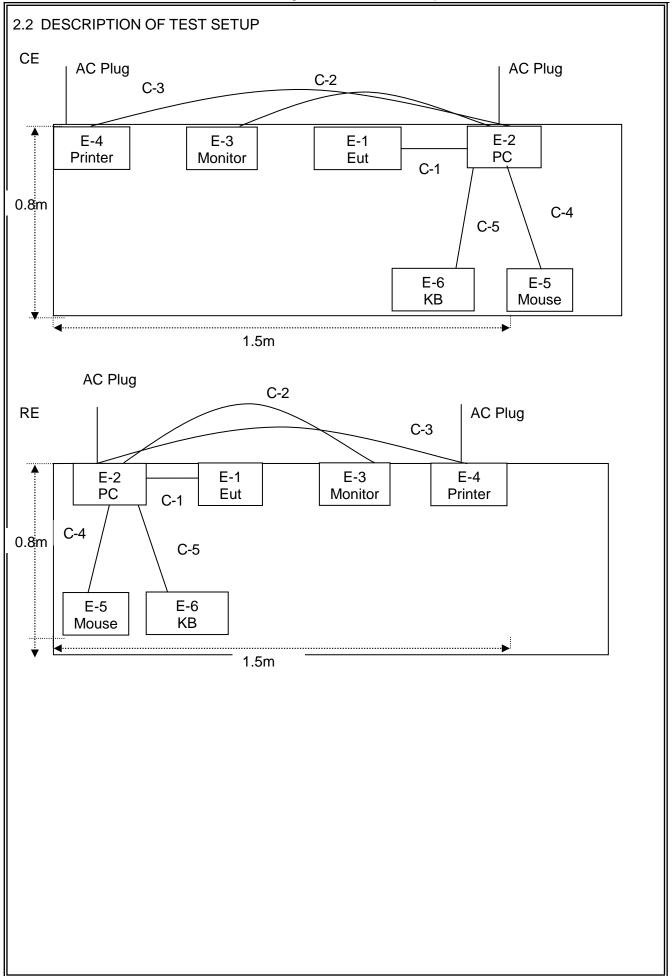
For Conducted Test		
Final Test Mode	Description	
Mode 1	Normal Link	

For Radiated Test			
Final Test Mode	Description		
Mode 1	Normal Link		

Note: Final Test Mode: Through Pre-scan, find the mode 1 is the worst case. Only the worst case mode is recorded in the report.









### 2.3 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

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	intelligent reader	N/A	i21B	N/A	EUT
E-2	PC	N/A	N/A	N/A	
E-3	Monitor	DELL	IN2020MB	cn-0y6mhx-74261-11f-67e s	Peripherals
E-3	Monitor	DELL	ST2220Mb	CN-OP7FCY-74261-18A-1	Peripheral
L-3	Wioriitoi	DELE	012220IVID	1NM	S
E-4	Printer	N/A	L662	N/A	Peripherals
E-5	Mouse	DELL	MS111-P	cn-011d3v-71581-11e-1th7	Peripherals
E-6	KB	DELL	SK-8185	OY526KUS	

Item	Cable Type	Shielded Type	Ferrite Core	Length	Note
C-1	USB Cable	NO	NO	1.0m	
C-2	VGA Cable	YES	YES	0.8m	
C-3	USB Cable	NO	NO	1.5m	
C-4	USB Cable	NO	NO	1.5m	
C-5	USB Cable	NO	NO	1.5m	

## 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.
- (3) "YES" means "shielded" "with core"; "NO" means "unshielded" "without core".



## 2.4 MEASUREMENT INSTRUMENTS LIST

Radiation Test equipment

Item		Manufacturer	Type No.	Serial No.	Last	Calibrated	Calibratio
	Equipment				calibration	until	n period
1	Spectrum Analyzer	Agilent	E4407B	MY4510804 0	2016.07.06	2017.07.05	1 year
2	Test Receiver	R&S	ESPI	101318	2016.06.07	2017.06.06	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2016.07.06	2017.07.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 6	2016.06.07	2017.06.06	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2016.06.07	2017.06.06	1 year
6	Horn Antenna	EM	EM-AH-101 80	2011071402	2016.07.06	2017.07.05	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2016.07.06	2017.07.05	1 year
8	Amplifier	EM	EM-30180	060538	2016.07.06	2017.07.05	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2016.06.08	2017.06.07	1 year
10	Power Meter	R&S	NRVS	100696	2016.07.06	2017.07.05	1 year
11	Power Sensor	R&S	URV5-Z4	0395.1619. 05	2016.07.06	2017.07.05	1 year
12	Test Cable	N/A	R-01	N/A	2016.07.06	2017.07.05	1 year
13	Test Cable	N/A	R-02	N/A	2016.07.06	2017.07.05	1 year

# Conduction Test equipment

Item	Kind of Equipment	Manufactu rer	Type No.	Serial No.	Last calibration	Calibrated until	Calibratio n period
1	Test Receiver	R&S	ESCI	101160	2016.06.06	2017.06.05	1 year
2	LISN	R&S	ENV216	101313	2016.08.24	2017.08.23	1 year
3	LISN	EMCO	3816/2	00042990	2016.08.24	2017.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 7	2016.06.07	2017.06.06	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2016.06.07	2017.06.06	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2016.06.08	2017.06.07	1 year
7	Test Cable	N/A	C01	N/A	2016.06.08	2017.06.07	1 year
8	Test Cable	N/A	C02	N/A	2016.06.08	2017.06.07	1 year
9	Test Cable	N/A	C03	N/A	2016.06.08	2017.06.07	1 year



## 3. EMC EMISSION TEST

## 3.1 CONDUCTED EMISSION MEASUREMENT

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

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

### 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

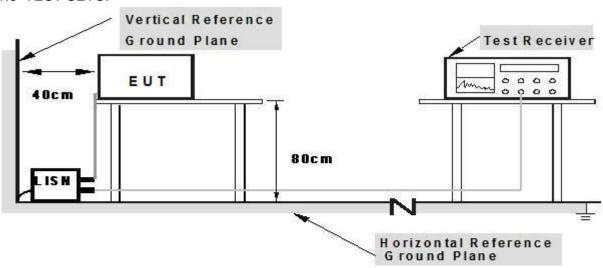
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



#### 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 TEST SETUP



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

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

#### 3.1.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.



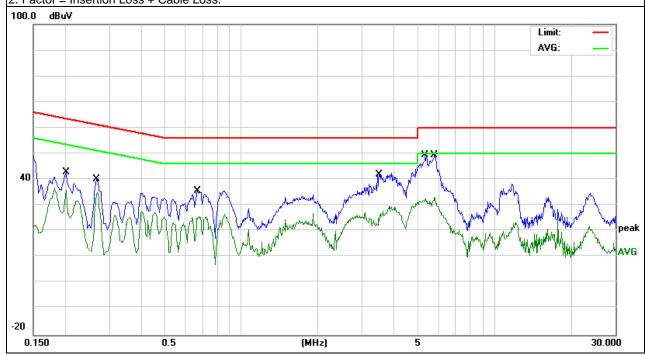


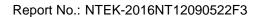
## 3.1.5 TEST RESULTS

EUT:	intelligent reader	Model Name. :	i21B		
Temperature:	26 ℃	Relative Humidity:	54%		
Pressure:	1010hPa	Test Date:	2016-12-12		
Test Mode:	Mode 1	L			
Test Voltage:	DC 3.7V from PC AC 120V/60Hz				

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Damade
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.202	32.57	10.17	42.74	63.52	-20.78	QP
0.202	23.84	10.17	34.01	53.52	-19.51	AVG
0.266	29.95	10.14	40.09	61.24	-21.15	QP
0.266	24.58	10.14	34.72	51.24	-16.52	AVG
0.67	25.9	9.78	35.68	56	-20.32	QP
0.67	15.48	9.78	25.26	46	-20.74	AVG
3.5019	32.05	9.78	41.83	56	-14.17	QP
3.5019	14.14	9.78	23.92	46	-22.08	AVG
5.3139	39.79	9.8	49.59	60	-10.41	QP
5.3139	21.95	9.8	31.75	50	-18.25	AVG
5.7778	39.72	9.81	49.53	60	-10.47	QP
5.7778	23.04	9.81	32.85	50	-17.15	AVG

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.



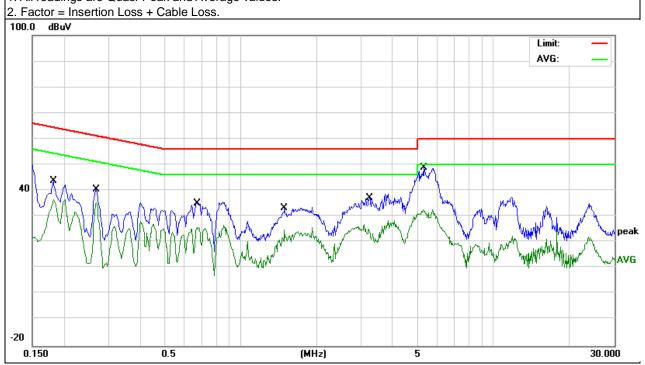




EUT:	intelligent reader	Model Name. :	i21B		
Temperature:	26 ℃	Relative Humidity:	54%		
Pressure:	1010hPa	Test Date:	2016-12-12		
Test Mode:	Mode 1 Phase : N				
Test Voltage:	DC 3.7V from PC AC 120V/60Hz				

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Damark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1819	33.61	10.1	43.71	64.39	-20.68	QP
0.1819	26.23	10.1	36.33	54.39	-18.06	AVG
0.27	30.33	10.12	40.45	61.12	-20.67	QP
0.27	25.12	10.12	35.24	51.12	-15.88	AVG
0.674	25.3	9.78	35.08	56	-20.92	QP
0.674	15.83	9.78	25.61	46	-20.39	AVG
1.4939	23.57	9.75	33.32	56	-22.68	QP
1.4939	11.22	9.75	20.97	46	-25.03	AVG
3.2339	27.49	9.78	37.27	56	-18.73	QP
3.2339	15.41	9.78	25.19	46	-20.81	AVG
5.2938	38.91	9.81	48.72	60	-11.28	QP
5.2938	22.28	9.81	32.09	50	-17.91	AVG

- 1. All readings are Quasi-Peak and Average values.



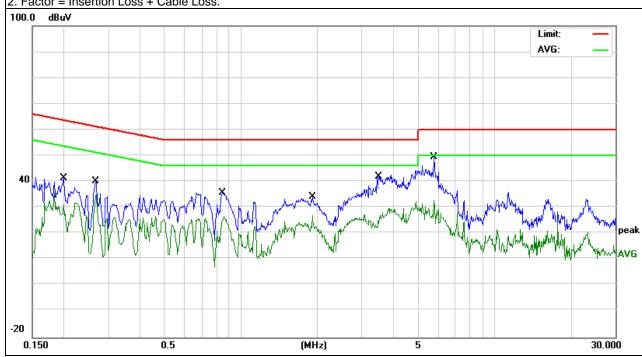


Report No.:	NTEK-2016NT12090522F3

EUT:	intelligent reader	Model Name.:	i21B	
Temperature:	26 ℃	Relative Humidity:	54%	
Pressure:	1010hPa	Test Date:	2016-12-12	
Test Mode:	Mode 1	Phase :	L	
Test Voltage: DC 3.7 from PC AC 240V/60Hz				

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1995	31.11	10.17	41.28	63.63	-22.35	QP
0.1995	21.04	10.17	31.21	53.63	-22.42	AVG
0.266	29.95	10.14	40.09	61.24	-21.15	QP
0.266	21.34	10.14	31.48	51.24	-19.76	AVG
0.8457	25.86	9.76	35.62	56	-20.38	QP
0.8457	15.06	9.76	24.82	46	-21.18	AVG
1.9173	24.39	9.75	34.14	56	-21.86	QP
1.9173	12.5	9.75	22.25	46	-23.75	AVG
3.5019	32.05	9.78	41.83	56	-14.17	QP
3.5019	14.14	9.78	23.92	46	-22.08	AVG
5.7778	39.72	9.81	49.53	60	-10.47	QP
5.7778	16.25	9.81	26.06	50	-23.94	AVG

- All readings are Quasi-Peak and Average values.
   Factor = Insertion Loss + Cable Loss.

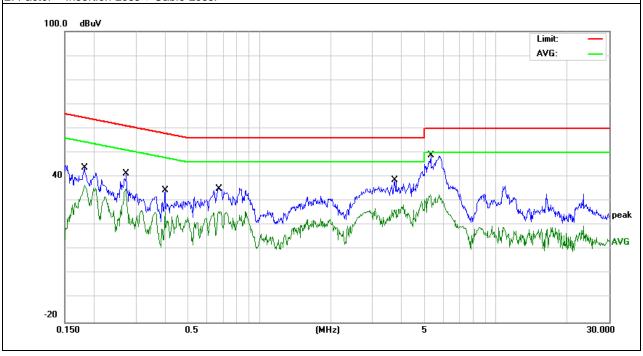




EUT:	intelligent reader	Model Name. :	i21B	
Temperature:	<b>26</b> ℃	Relative Humidity:	54%	
Pressure:	1010hPa	Test Date:	2016-12-12	
Test Mode:	Mode 1	Phase :	N	
Test Voltage:	DC 3.7 from PC AC 240V/60Hz			

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1819	33.61	10.1	43.71	64.39	-20.68	QP
0.1819	26.23	10.1	36.33	54.39	-18.06	AVG
0.274	31.38	10.12	41.5	60.99	-19.49	QP
0.274	24.7	10.12	34.82	50.99	-16.17	AVG
0.398	24.63	9.93	34.56	57.89	-23.33	QP
0.398	9.09	9.93	19.02	47.89	-28.87	AVG
0.674	25.3	9.78	35.08	56	-20.92	QP
0.674	15.83	9.78	25.61	46	-20.39	AVG
3.7339	28.76	9.79	38.55	56	-17.45	QP
3.7339	16.44	9.79	26.23	46	-19.77	AVG
5.2938	38.91	9.81	48.72	60	-11.28	QP
5.2938	20.33	9.81	30.14	50	-19.86	AVG

- All readings are Quasi-Peak and Average values.
   Factor = Insertion Loss + Cable Loss.





#### 3.2 RADIATED EMISSION MEASUREMENT

#### 3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

	Class A (at 10m)	Class B (at 3m)		
FREQUENCY (MHz)	dBuV/m	dBuV/m		
30 ~ 88	39.0	40.0		
88 ~ 216	43.5	43.5		
216 ~ 960	46.5	46.0		
Above 960	49.5	54.0		

#### Notes:

- (1) The limit for radiated test was performed according to as following: FCC PART 15B /ICES-003.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

#### 3.2.2 TEST PROCEDURE

#### Test Arrangement for Radiated Emissions up to 1 GHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited test facility. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for quasi-peak detection (QP) at frequency below 1GHz.

## Test Arrangement for Radiated Emissions above 1 GHz.

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at ar accredited chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna can be varied from one meter to four meters, the height of adjustment depends on the EUT height and the antenna 3dB beamwidth both, to detect the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.



Note: For the hand-held device, the EUT should be measured for all 3 axes and only the worst case is recorded in the report

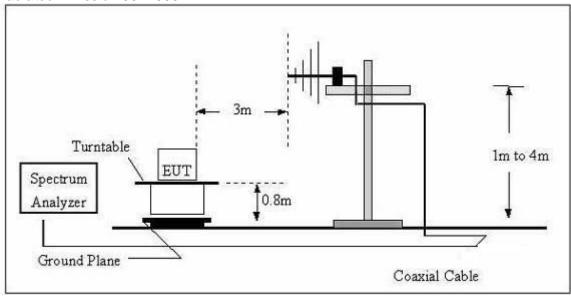
During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Page 18 of 23

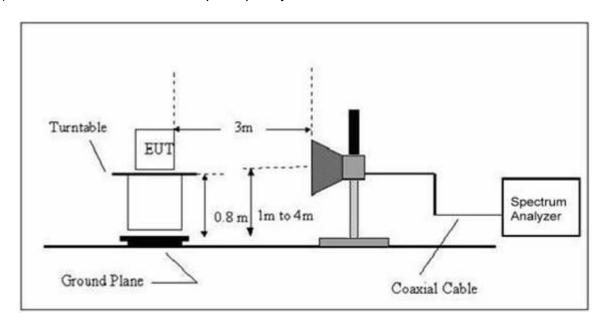
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth	
30 to 1000 QP		120 kHz	300 kHz	
	Peak	1 MHz	1 MHz	
Above 1000	Avg	1 MHz	10 Hz	

### 3.2.3 TEST SETUP

For Radiated Emission 30~1000MHz



## (B) Radiated Emission Test Set-Up Frequency Above 1GHz





## 3.2.4 TEST RESULTS

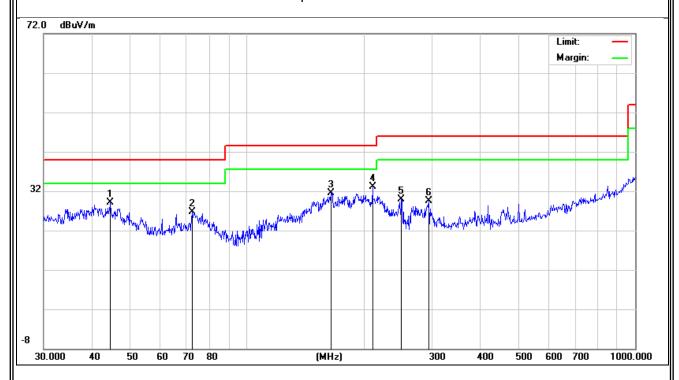
TEST RESULTS (30~1000 MHz)

	,			
EUT:	intelligent reader	Model Name:	i21B	
Temperature:	<b>24</b> °C	Relative Humidity:	54%	
Pressure:	1010 hPa	Test Date :	2016-12-12	
Test Mode:	Mode 1	Polarization:	Horizontal	
Test Power:	DC 3.7 from PC AC 120V/60Hz			

Polar (H/V)  H H H H H	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	remant
Н	44.5867	16.32	12.78	29.1	40	-10.9	QP
Н	72.3375	16.14	10.56	26.7	40	-13.3	QP
Н	164.9071	18.82	12.78	31.6	43.5	-11.9	QP
Н	210.786	20.8	12.3	33.1	43.5	-10.4	QP
Н	250.3009	17.78	12.12	29.9	46	-16.1	QP
Н	294.1136	15.93	13.67	29.6	46	-16.4	QP

## Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.







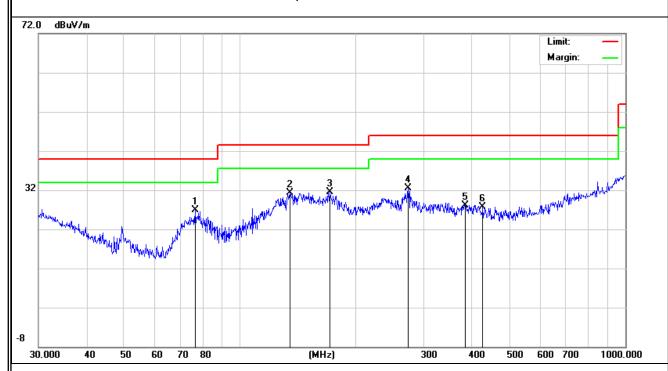
EUT: intelligent reader Model Name: i21B **24** ℃ 54% Temperature: Relative Humidity: Pressure: 1010 hPa Test Date: 2016-12-12 Vertical Test Mode: Mode 1 Polarization: Test Power: DC 3.7 from PC AC 120V/60Hz

Report No.: NTEK-2016NT12090522F3

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	rterriarit
V	76.5121	16.52	10.46	26.98	40	-13.02	QP
V	134.5592	19.24	12.06	31.3	43.5	-12.2	QP
V	170.7923	17.92	13.58	31.5	43.5	-12	QP
V	273.2341	19.68	12.9	32.58	46	-13.42	QP
V	383.9318	12.02	16.18	28.2	46	-17.8	QP
V	426.521	11.7	16.1	27.8	46	-18.2	QP

### Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.





3.2.5 TEST RESULTS(1000~25000MHz)

EUT:	intelligent reader	Model Name :	i21B	
Temperature:	<b>24</b> ℃	Relative Humidity:	54%	
Pressure:	1010 hPa	Test Date :	2016-12-12	
Test Mode:	Mode 1	Polarization:	Vertical/ Horizontal	
Test Power:	DC 3.7 from PC AC 120V/60Hz			

Report No.: NTEK-2016NT12090522F3

All the modulation modes have been tested, and the worst result was report as below:

Polar (H/V)	Frequen cy	Readi ng	Corre ct	Result	Limit	Over Limit	Remar k
	(MHz)	(dBuV/ m)	dB/m	(dBuV/ m)	(dBuV/ m)	(dB)	K
V	2114.79	44.44	-11	33.46	74	-40.54	Pk
V	2114.79	32.75	-11	21.77	54	-32.23	AV
V	4602.41	43.35	0.34	43.69	74	-30.31	Pk
V	4602.41	31.69	0.34	32.03	54	-21.97	AV
Н	2095.93	43.98	-11.1	32.9	74	-41.1	Pk
Н	2095.93	31.75	-11.1	20.67	54	-33.33	AV
Н	3473.88	43.24	-5.06	38.18	74	-35.82	Pk
Н	3473.88	32.19	-5.06	27.13	54	-26.87	AV

### Remark:

Emission Level = Read Level+Antenna Factor + Cable Loss - Amplifier.

Margin= Emission Level-Limits

#### Note:

- 1. Measuring frequencies from 1 GHz to 13GHz.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using

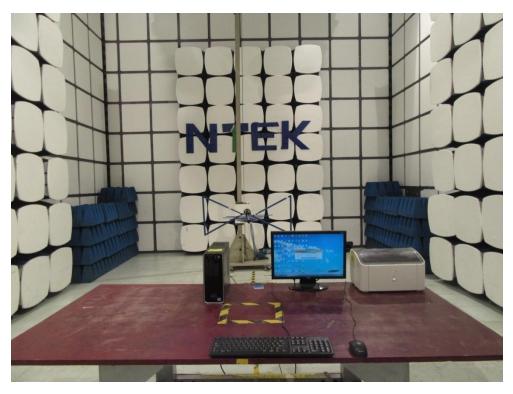
Peak detector mode of the emission shown in Actual FS column.

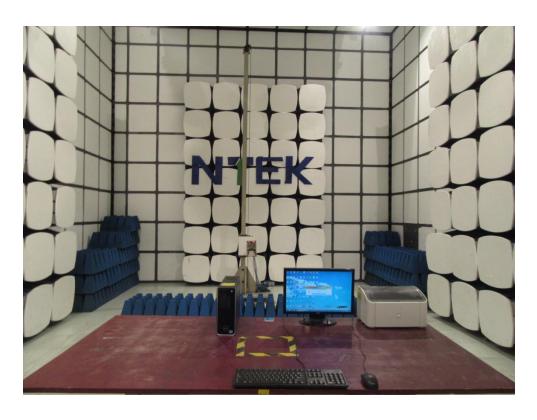
3. The frequency that above 3GHz is mainly from the environment noise



# 4. EUT TEST PHOTO









## **Conducted Measurement Photos**

