

<b>Prüfbericht-Nr.:</b> Test Report No.:	<b>17032143 005</b>	<b>Auftrags-Nr.:</b> Order No.:	<b>164003749</b>	Seite 1 von 22 Page 1 of 22
<b>Kunden-Referenz-Nr.:</b> Client Reference No.:	N/A	<b>Auftragsdatum:</b> Order date:	22.03.2013	
<b>Auftraggeber:</b> Client:	KEEN HIGH TECHNOLOGIES LTD., Block A1 & A2, Ze Da Li Industrial Park, Tangwei Area, Fuyong, Bao'an, Shenzhen, Guangdong, China			
<b>Prüfgegenstand:</b> Test item:	Tablet			
<b>Bezeichnung / Typ-Nr.:</b> Identification / Type No.:	NS-14T004			
<b>Auftrags-Inhalt:</b> Order content:	FCC/IC Certification			
<b>Prüfgrundlage:</b> Test specification:	FCC CFR47 Part 15: Subpart C Section 15.107    FCC CFR47 Part 15: Subpart C Section 15.109 ICES-003 Issue 4 February 2004			
<b>Wareneingangsdatum:</b> Date of receipt:	22.03.2013			
<b>Prüfmuster-Nr.:</b> Test sample No.:	N/A			
<b>Prüfzeitraum:</b> Testing period:	19.04.2013 - 08.06.2013			
<b>Ort der Prüfung:</b> Place of testing:	Accurate Technology Co., Ltd.			
<b>Prüflaboratorium:</b> Testing laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.			
<b>Prüfergebnis*:</b> Test result*:	Pass			
<b>geprüft von / tested by:</b>		<b>kontrolliert von / reviewed by:</b>		
09-06-2013	Owen Tian/Project Manager	09-06-2013	Sam Lin/Technical Certifier	
<b>Datum</b> Date	<b>Name / Stellung</b> Name / Position	<b>Unterschrift</b> Signature	<b>Datum</b> Date	<b>Name / Stellung</b> Name / Position
				<b>Unterschrift</b> Signature
<b>Sonstiges / Other:</b>				
<b>Zustand des Prüfgegenstandes bei Anlieferung:</b> Condition of the test item at delivery:		<b>Prüfmuster vollständig und unbeschädigt</b> Test item complete and undamaged		
<p>* Legende:    1 = sehr gut    2 = gut    3 = befriedigend    4 = ausreichend    5 = mangelhaft  P(ass) = entspricht o.g. Prüfgrundlage(n)    F(ail) = entspricht nicht o.g. Prüfgrundlage(n)    N/A = nicht anwendbar    N/T = nicht getestet</p> <p>Legend:    1 = very good    2 = good    3 = satisfactory    4 = sufficient    5 = poor  P(ass) = passed a.m. test specification(s)    F(ail) = failed a.m. test specification(s)    N/A = not applicable    N/T = not tested</p>				
<p><b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b>  <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i></p>				

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## TEST SUMMARY

### 5.1.1 CONDUCTED EMISSIONS

*RESULT: Pass*

### 5.2.1 RADIATED EMISSION

*RESULT: Pass*

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## 1. General Remarks

### 1.1 Complementary Materials

None.

## 2. Test Sites

### 2.1 Test Facilities

Accurate Technology Co., Ltd.

**(FCC Registration No.: 752051)**

**(Test site Industry Canada No.: 5077A-2)**

F1, Bldg. A, Changyuan New Material Port  
Keyuan Rd., Science & Industry Park, Nanshan  
Shenzhen, P.R. China

The tests at the test site have been conducted under the supervision of a TÜV engineer.

## 2.2 List of Test and Measurement Instruments

**Table 1: List of Test and Measurement Equipment**

Kind of Equipment	Manufacturer	Type	S/N	Calibrated until
<b>Conducted Emission</b>				
Test Receiver	Rohde & Schwarz	ESCS30	100307	2014-01-06
L.I.S.N.	Schwarzbeck	NLSK8126	8126431	2014-01-06
L.I.S.N.	Rohde & Schwarz	ESH3-Z5	100310	2014-01-06
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100815	2014-01-06
50Ω Coaxial Switch	Anritsu Corp	MP59B	6200283933	2014-01-06
RF Coaxial Cable	SUHNER	N-2m	No.3	2014-01-06
<b>Radiated Emission</b>				
Spectrum Analyzer	Agilent	E7405A	MY45115511	2014-01-06
Test Receiver	Rohde & Schwarz	ESCS30	100307	2014-01-06
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	2014-01-06
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	2014-01-06
Horn Antenna	SCHWARZBECK	BBHA9170	9170-359	2014-01-06
50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	2014-01-06
Pre-Amplifier	Rohde & Schwarz	CBLU1183540-01	3791	2014-01-06

## 2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

## 2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

## 2.5 Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO/IEC 17025 are:

**Table 2: Measurement Uncertainty**

Items		Extended Uncertainty
Conducted Emission (0.15-30MHz)	Disturbance Voltage (dBuV)	$U=\pm 2.23\text{dB}$ , $k=2$ , $\sigma=95\%$
Radiated Emission (30-1000MHz)	Field strength (dBuV/m)	$U=\pm 4.42\text{dB}$ , $k=2$ , $\sigma=95\%$
Radiated Emission (1-25GHz)	Field strength (dBuV/m)	$U=\pm 4.06\text{dB}$ , $k=2$ , $\sigma=95\%$

## 2.6 Location of Original Data

The original copies of all test data taken during actual testing were retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

## 2.7 Status of Facility Used for Testing

Accurate Technology Co., Ltd. test facility located at F1, Bldg. A, Changyuan New Material Port Keyuan Rd., Science & Industry Park, Nanshan, Shenzhen, P.R. China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

## 2.8 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test

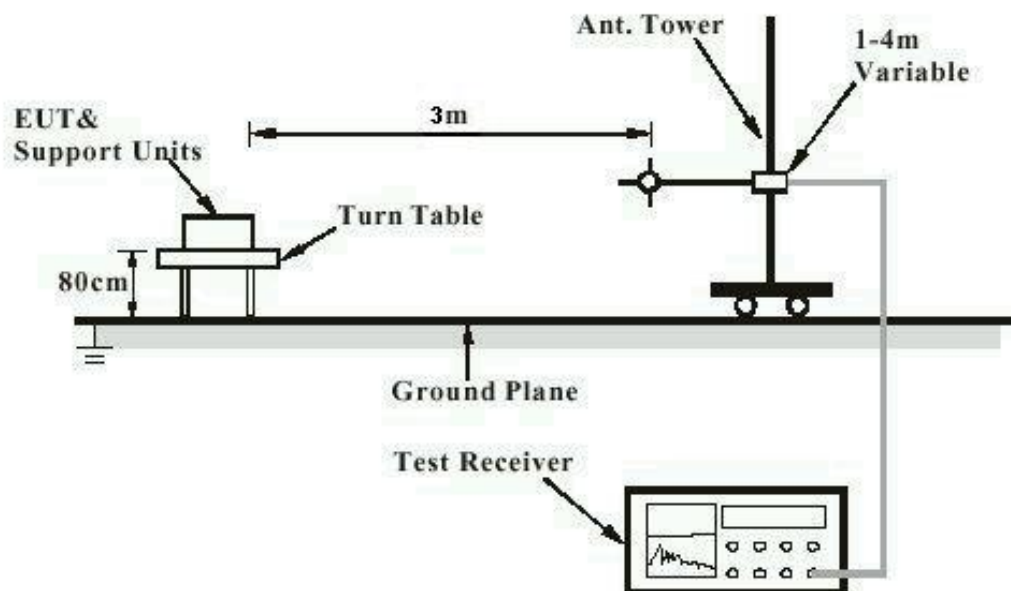
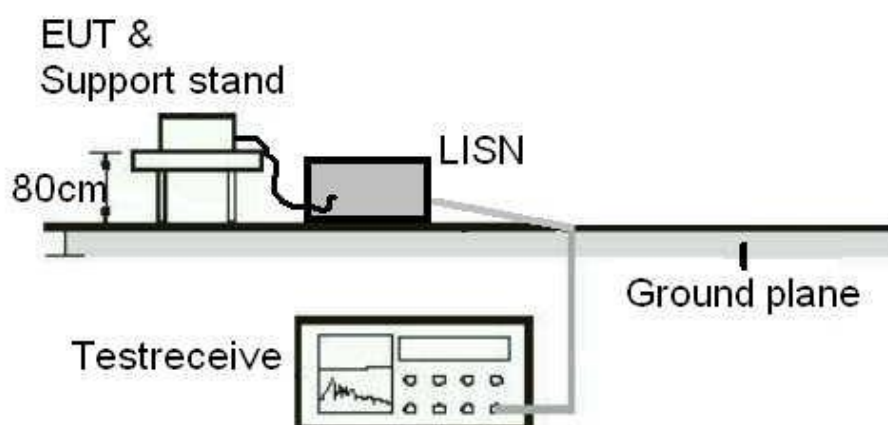


Diagram of Measurement Equipment Configuration for Conduction Measurement



### 3. General Product Information

#### 3.1 Product Function and Intended Use

The EUT is a 10.1" tablet with Wi-Fi, Bluetooth & GPS function.  
For details refer to the User Manual and Circuit Diagram.

#### 3.2 Ratings and System Details

**Table 3: Technical Specification of EUT**

Technical Specification	Value
Kind of Equipment	Tablet
Type Designation	NS-14T004
Extreme Temperature Range	-30~+75°C
Operation Voltage	DC 3.7V (via built in battery)
	DC 5V (via AC/DC adapter)

#### 3.3 Independent Operation Modes

The basic operation modes are:

- A. On, connecting to PC
- B. Standby
- C. Off

#### 3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

#### 3.5 Submitted Documents

- Bill of Material
- Constructional Drawing
- PCB Layout
- Photo Document
- Circuit Diagram
- Instruction Manual
- Rating Label



## 4. Test Set-up and Operation Modes

### 4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

### 4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.4: 2003.

### 4.3 Special Accessories and Auxiliary Equipment

The EUT was tested together with the following accessories:

Description	Manufacturer	Part No.	S/N	Rating
Notebook PC	Lenovo	4290-RT8	R9-FW93G	N/A
Printer	HP	HP laserjet 1015	CNFG030424	N/A

The EUT was tested with following cables:

Interface(s)/Port(s):	Max. cable length, shielding	Cable classification
Micro USB port	4 cores, non-shielded port, 3m	DC Power Input

### 4.4 Countermeasures to Achieve ERM Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF). No additional measures were employed to achieve compliance.

## 5. Test Results EMISSION

### 5.1 Emission in the Frequency Range up to 30 MHz

#### 5.1.1 Conducted emissions

**RESULT:****Pass**

Date of testing	:	2013-06-08
Test standard	:	FCC Part 15.107 (a) ICES-003 Issue 4 February 2004
Basic standard	:	ANSI C63.4: 2003
Frequency range	:	0.15 – 30MHz
Limits	:	FCC Part 15.107(a) ICES-003 Issue 4 February 2004
Kind of test site	:	Shield room

**Test setup**

Input Voltage	:	AC 120V, 60Hz (AC Mains of PC)
Operation Mode	:	A
Earthing	:	Not Connected
Ambient temperature	:	25°C
Relative humidity	:	52%
Atmospheric pressure	:	101kPa

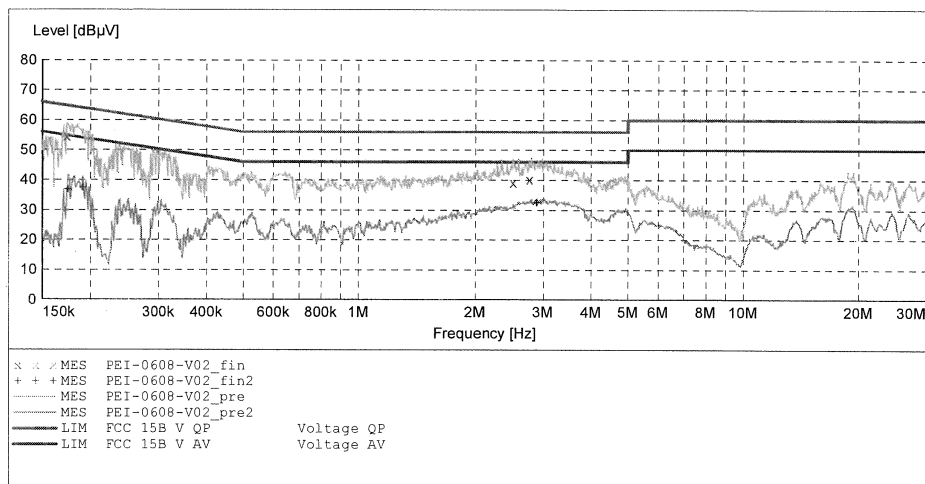
For details refer to following test plot.

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**ACCURATE TECHNOLOGY CO., LTD**
**CONDUCTED EMISSION STANDARD FCC PART 15 B**

EUT: Tablet M/N: NS-14T004  
 Manufacturer: Keen High  
 Operating Condition: Transfer Data  
 Test Site: 1#Shielding Room  
 Operator: PEI  
 Test Specification: L 120V/60Hz  
 Comment:  
 Start of Test: 6/8/2013 / 1:44:05PM

**SCAN TABLE: "V 150K-30MHz fin"**

Short Description: SUB STD VTERM2 1.70  
 Start Stop Step Detector Meas. IF Transducer  
 Frequency Frequency Width Time Bandw.  
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008  
 Average


**MEASUREMENT RESULT: "PEI-0608-V02\_fin"**

6/8/2013 1:46PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.173876	54.60	11.6	65	10.2	QP	L1	GND
2.502412	39.20	12.4	56	16.8	QP	L1	GND
2.765041	40.20	12.3	56	15.8	QP	L1	GND

**MEASUREMENT RESULT: "PEI-0608-V02\_fin2"**

6/8/2013 1:46PM

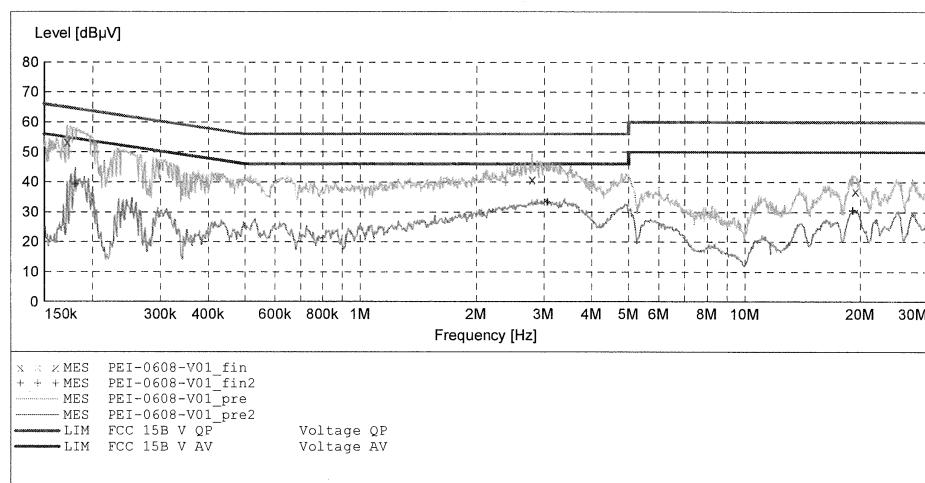
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.175269	36.80	11.6	55	17.9	AV	L1	GND
0.191358	37.50	11.7	54	16.5	AV	L1	GND
2.889166	32.50	12.3	46	13.5	AV	L1	GND

**ACCURATE TECHNOLOGY CO., LTD**
**CONDUCTED EMISSION STANDARD FCC PART 15 B**

EUT: Tablet M/N: NS-14T004  
 Manufacturer: Keen High  
 Operating Condition: Transfer Data  
 Test Site: 1#Shielding Room  
 Operator: PEI  
 Test Specification: N 120V/60Hz  
 Comment:  
 Start of Test: 6/8/2013 / 1:40:50PM

**SCAN TABLE: "V 150K-30MHz fin"**

Short Description: SUB STD\_VTERM2 1.70  
 Start Stop Step Detector Meas. IF Transducer  
 Frequency Frequency Width Time Bandw.  
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008  
 Average


**MEASUREMENT RESULT: "PEI-0608-V01\_fin"**

6/8/2013 1:43PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.171806	53.50	11.6	65	11.4	QP	N	GND
2.798355	40.80	12.3	56	15.2	QP	N	GND
19.397844	37.10	12.1	60	22.9	QP	N	GND

**MEASUREMENT RESULT: "PEI-0608-V01\_fin2"**

6/8/2013 1:43PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.180236	39.40	11.6	55	15.1	AV	N	GND
3.067455	33.30	12.3	46	12.7	AV	N	GND
19.090557	30.50	12.1	50	19.5	AV	N	GND

## 5.2 Emission in the Frequency Range above 30 MHz

### 5.2.1 Radiated Emission

**RESULT:****Pass**

Date of testing	:	2013-04-19
Test standard	:	FCC Part 15.109 (a) ICES-003 Issue 4 February 2004
Test procedure	:	ANSI C63.4: 2003
Frequency range	:	30 - 25000MHz
Equipment Classification	:	Class B
Limits	:	FCC Part 15.109(a) ICES-003 Issue 4 February 2004
Kind of test site	:	3m Semi-Anechoic Chamber

**Test setup**

Input Voltage	:	AC 120V, 60Hz (AC Mains of PC)
Operation mode	:	A
Earthing	:	Not connected
Ambient temperature	:	25°C
Relative humidity	:	52%
Atmospheric pressure	:	101kPa

For details refer to following test plot.


**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

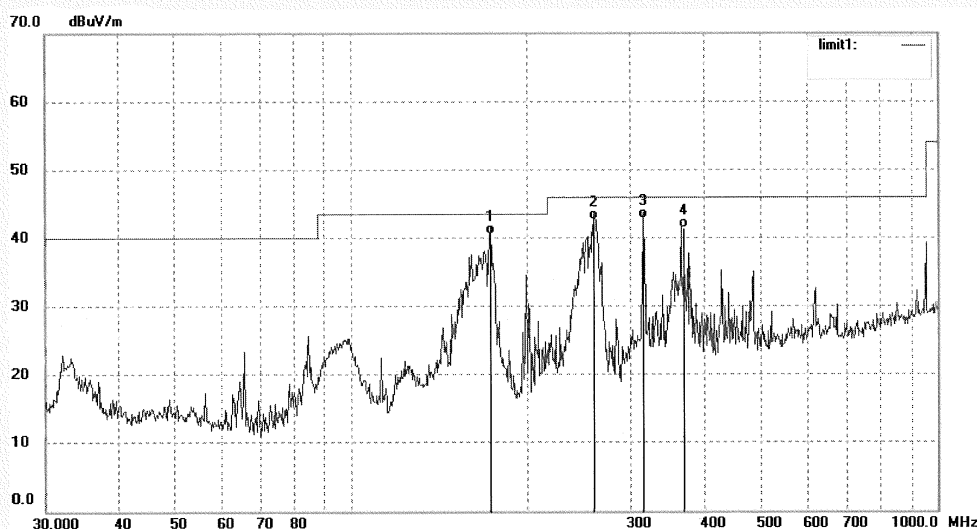
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #1723  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 25 C / 55 %  
EUT: Tablet  
Mode: Transfer data  
Model: NS-14T004  
Manufacturer: Keen High

Polarization: Horizontal  
Power Source: DC 5V  
Date: 13/04/19/  
Time: 10/09/47  
Engineer Signature: PEI  
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	172.0475	54.23	-13.66	40.57	43.50	-2.93	QP			
2	257.7640	53.42	-10.74	42.68	46.00	-3.32	QP			
3	315.0700	51.62	-8.88	42.74	46.00	-3.26	QP			
4	372.3464	48.93	-7.48	41.45	46.00	-4.55	QP			


**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg.A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

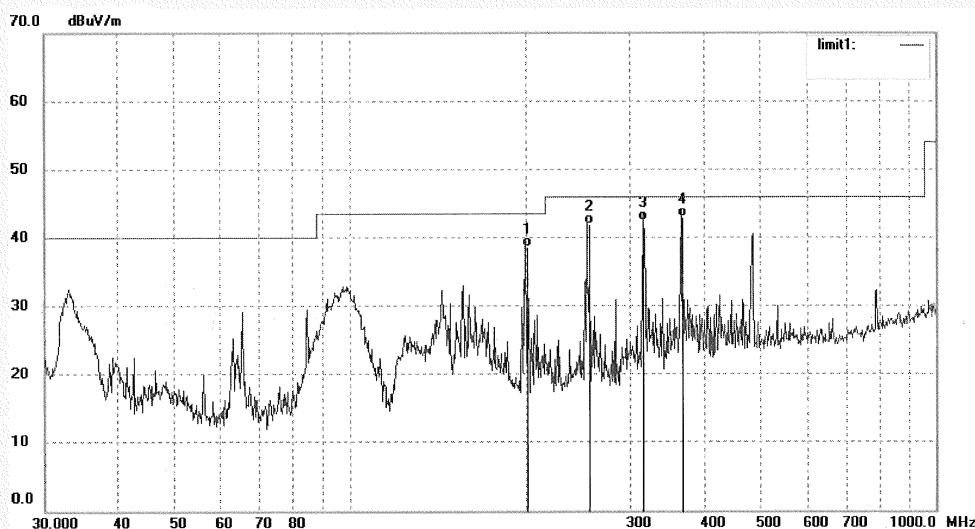
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #1724  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 25 C / 55 %  
EUT: Tablet  
Mode: Transfer data  
Model: NS-14T004  
Manufacturer: Keen High

Polarization: Vertical  
Power Source: DC 5V  
Date: 13/04/19/  
Time: 10/18/20  
Engineer Signature: PEI  
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	200.4870	51.02	-12.43	38.59	43.50	-4.91	QP			
2	257.7669	52.67	-10.74	41.93	46.00	-4.07	QP			
3	315.0710	51.30	-8.88	42.42	46.00	-3.58	QP			
4	372.3384	50.43	-7.48	42.95	46.00	-3.05	QP			


**ACCURATE TECHNOLOGY CO., LTD.**

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

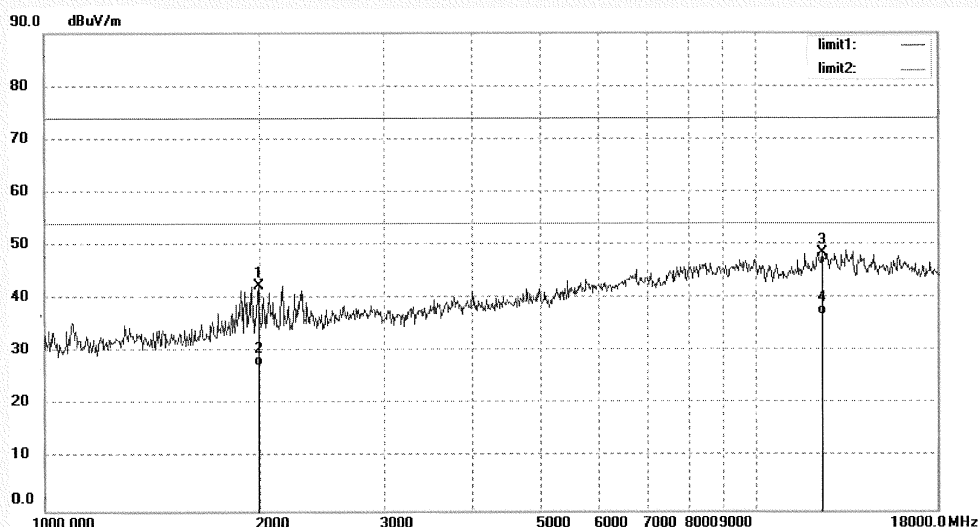
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #1731  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 25 C / 55 %  
EUT: Tablet  
Mode: Transfer data  
Model: NS-14T004  
Manufacturer: Keen High

Polarization: Horizontal  
Power Source: DC 5V  
Date: 2013/04/19  
Time: 20:54:48  
Engineer Signature: PEI  
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1993.410	51.36	-9.04	42.32	74.00	-31.68	peak			
2	1993.565	36.44	-9.04	27.40	54.00	-26.60	AVG			
3	12401.236	10.21	38.30	48.51	74.00	-25.49	peak			
4	12401.236	-1.43	38.30	36.87	54.00	-17.13	AVG			




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Site: 2# Chamber

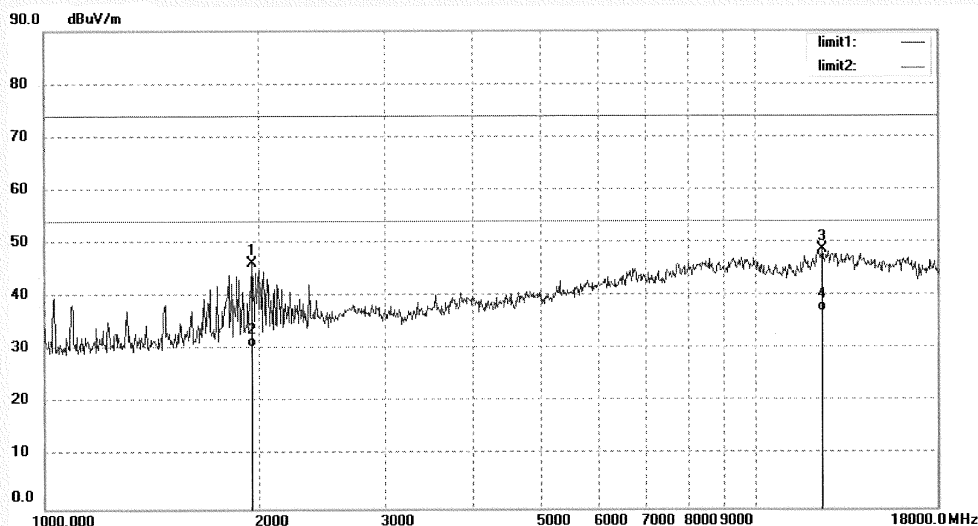
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #1732  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 25 C / 55 %  
EUT: Tablet  
Mode: Transfer data  
Model: NS-14T004  
Manufacturer: Keen High

Polarization: Vertical  
Power Source: DC 5V  
Date: 2013/04/19  
Time: 21:03:42  
Engineer Signature: PEI  
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1956.060	55.51	-9.27	46.24	74.00	-27.76	peak			
2	1956.060	39.67	-9.27	30.40	54.00	-23.60	AVG			
3	12401.358	10.31	38.30	48.61	74.00	-25.39	peak			
4	12401.358	-1.37	38.30	36.93	54.00	-17.07	AVG			

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F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

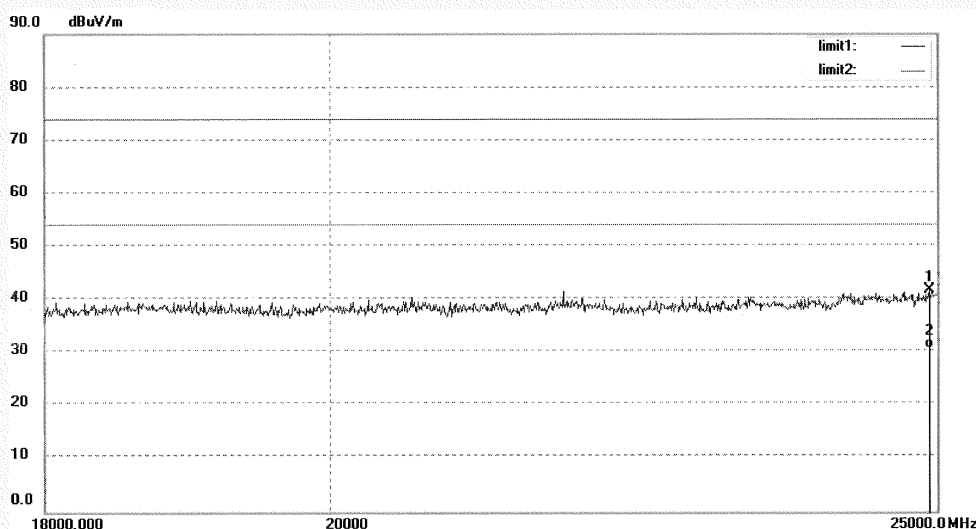
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #1738  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 25 C / 55 %  
EUT: Tablet  
Mode: Transfer data  
Model: NS-14T004  
Manufacturer: Keen High

Polarization: Horizontal  
Power Source: DC 5V  
Date: 2013/04/19  
Time: 21:53:20  
Engineer Signature: PEI  
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24926.048	22.86	18.80	41.66	74.00	-32.34	peak			
2	24926.048	11.86	18.80	30.66	54.00	-23.34	AVG			

**Prüfbericht - Nr.: 17032143 005**  
*Test Report No.*
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**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

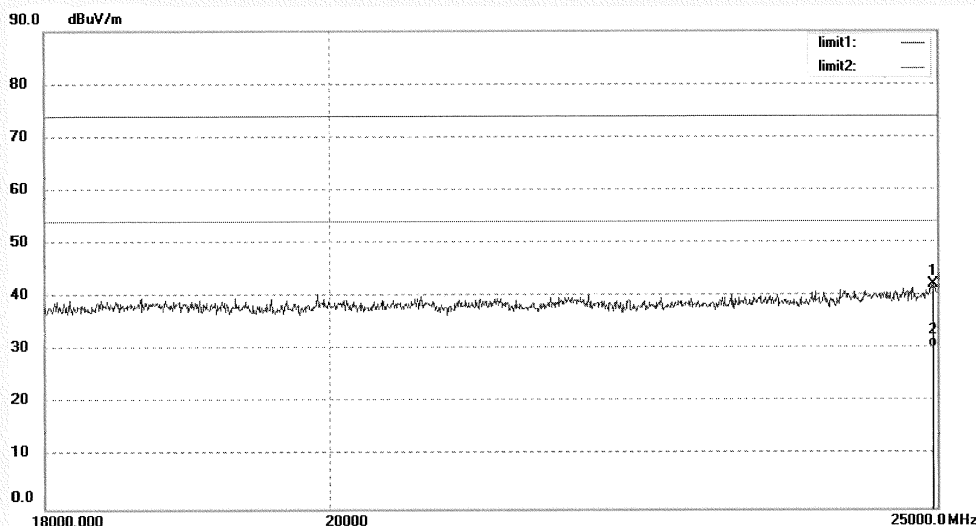
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #1737  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 25 C / 55 %  
EUT: Tablet  
Mode: Transfer data  
Model: NS-14T004  
Manufacturer: Keen High

Polarization: Vertical  
Power Source: DC 5V  
Date: 2013/04/19  
Time: 21:45:59  
Engineer Signature: PEI  
Distance: 3m

Note:



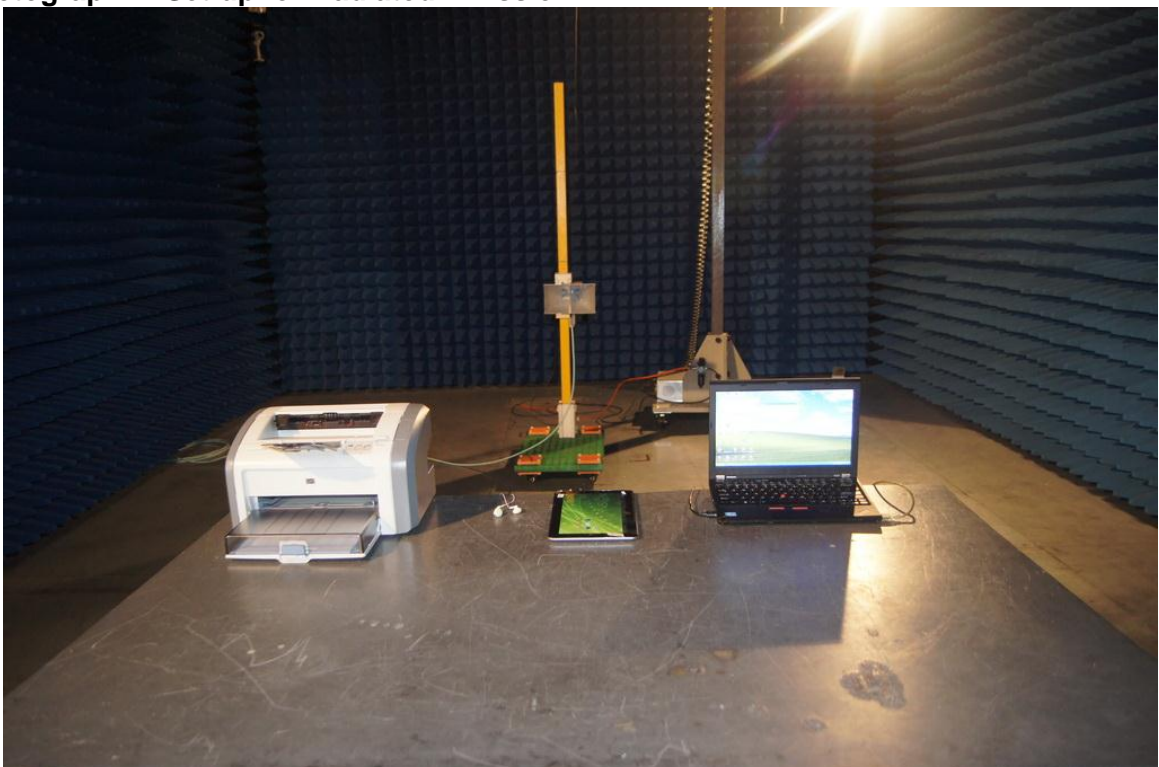
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24968.442	23.28	18.86	42.14	74.00	-31.86	peak			
2	24968.442	11.44	18.86	30.30	54.00	-23.70	AVG			

## 6. Photographs of the Test Set-Up

**Photograph 1: Set-up for Conducted Emission**

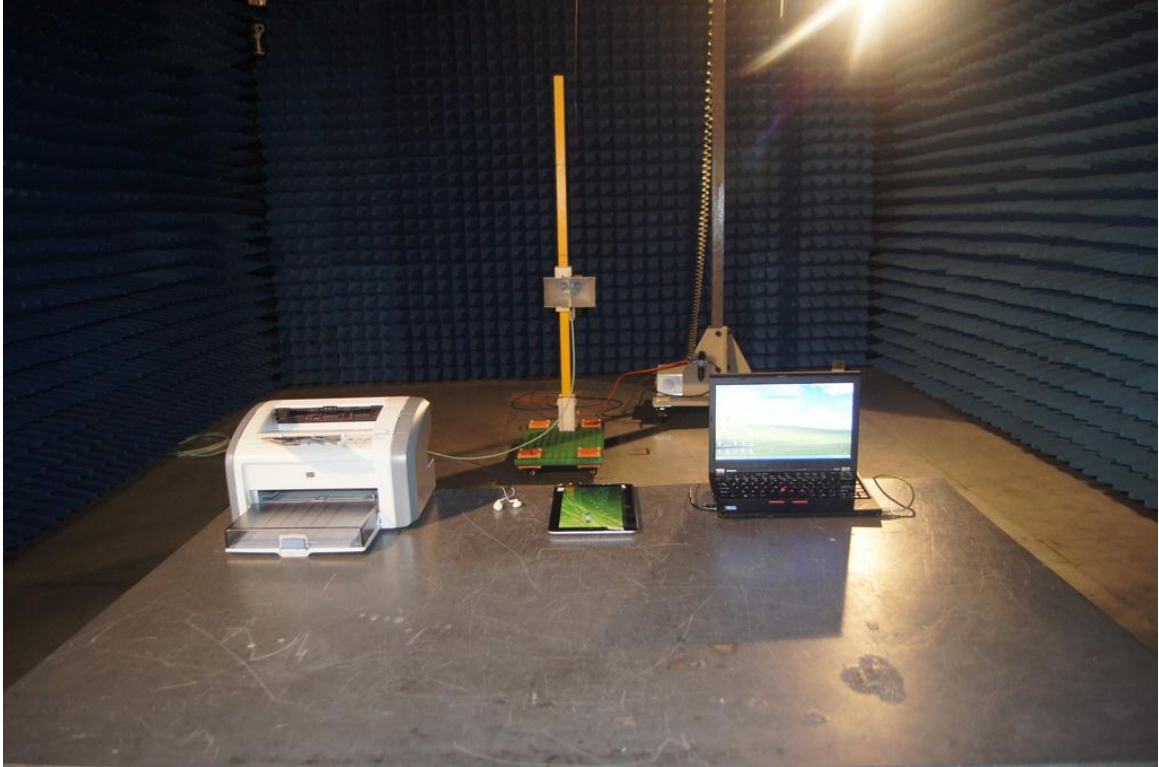


**Photograph 2: Set-up for Radiated Emission**

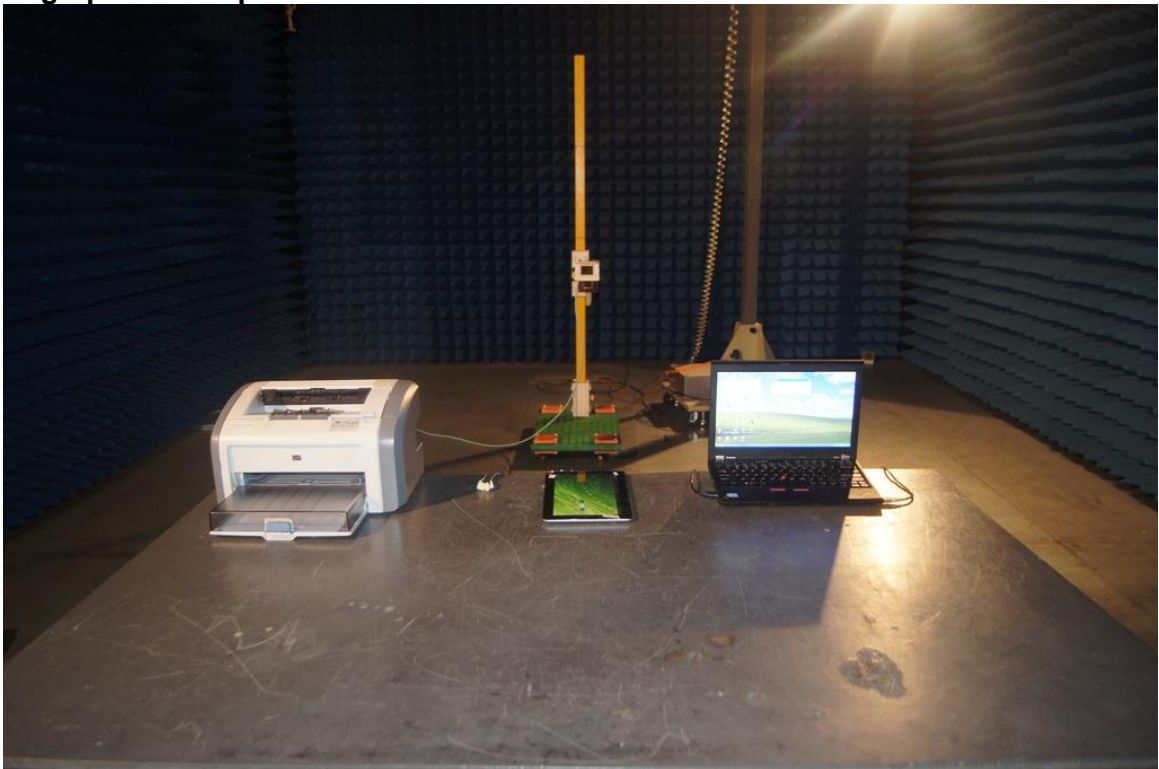




**Photograph 3: Set-up for Radiated Emission of 1 - 18GHz**



**Photograph 4: Set-up for Radiated Emission of 18 - 25GHz**



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