

Prüfbericht-Nr.: Auftrags-Nr.: 17040153 003 164013996 Seite 1 von 22 Test Report No.: Order No.: Page 1 of 22 Kunden-Referenz-Nr.: Auftragsdatum: N/A 07.05.2014 Order date: Client Reference No.: Auftraggeber: KEEN HIGH TECHNOLOGIES LTD., Block A1 & A2, Ze Da Li Industrial Park, Client: Tangwei Area, Fuyong, Bao'an, Shenzhen, Guangdong, China Prüfgegenstand: **Tablet** Test item: Bezeichnung / Typ-Nr.: NS-15AT08 T8240RK-88T Identification / Type No.: Auftrags-Inhalt: **FCC Certification** IC Verification Order content: Prüfgrundlage: CFR47 FCC Part 15: Subpart B Section 15.107 Test specification: CFR47 FCC Part 15: Subpart B Section 15.109 ICES-003 Issue 5 February 2012 Wareneingangsdatum: 07.05.2014 Date of receipt: Prüfmuster-Nr.: A000070974 002-003 Test sample No.: Prüfzeitraum: 10.05.2014 - 12.05.2014 Testing period: Ort der Prüfung: Accurate Technology Co., Ltd. Place of testing: Prüflaboratorium: TÜV Rheinland (Shenzhen) Co., Ltd. Testing laboratory: Prüfergebnis*: Pass Test result*: geprüft von I tested by: kontrolliert von I reviewed by: TomWang 06-06-2014 Tom Wang/Project Manager 06-06-2014 Sam Lin/Technical Certifier Name / Stellung Unterschrift Datum Name / Stellung Unterschrift Datum Name / Position Signature Date Name / Position Signature Date This test report is for evaluation of "Peripheral" function of the test item. Sonstiges I Other: Zustand des Prüfgegenstandes bei Anlieferung: Prüfmuster vollständig und unbeschädigt Condition of the test item at delivery: Test item complete and undamaged * Legende: 2 = gut 4 = ausreichend 5 = mangelhaft 1 = sehr aut 3 = befriedigend P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet 2 = good3 = satisfactory 4 = sufficient 5 = poor Legend: 1 = verv good P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/T = not tested N/A = not applicable Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht

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.

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.



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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.



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2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

| Kind of Equipment Manufacturer | | Туре | S/N | Calibrated until |
|--------------------------------|-----------------|------------|------------|------------------|
| Transmitter spurious em | issions | | | |
| Spectrum Analyzer | Agilent | E7405A | MY45115511 | 2015-01-11 |
| Test Receiver | Rohde & Schwarz | ESCS30 | 100307 | 2015-01-11 |
| Bilog Antenna | Schwarzbeck | VULB9163 | 9163-323 | 2015-01-11 |
| Loop Antenna | Schwarzbeck | FMZB1516 | 1516131 | 2015-01-11 |
| Horn Antenna | Schwarzbeck | BBHA9120D | 9120D-655 | 2015-01-11 |
| Horn Antenna | Schwarzbeck | BBHA9170 | 9170-359 | 2015-01-11 |
| 50 Coaxial Switch | Anritsu Corp | MP59B | 6200506474 | 2015-01-11 |
| RF Coaxial Cable | SUHNER | N-3m | No.8 | 2015-01-11 |
| RF Coaxial Cable | RESENBERGER | N-3.5m | No.9 | 2015-01-11 |
| RF Coaxial Cable | SUHNER | N-6m | No.10 | 2015-01-11 |
| RF Coaxial Cable | RESENBERGER | N-12m | No.11 | 2015-01-11 |
| RF Coaxial Cable | RESENBERGER | N-0.5m | No.12 | 2015-01-11 |
| Pre-Amplifier | Rohde & Schwarz | CBLU118354 | 3791 | 2015-01-11 |
| | | 0-01 | | |
| Conducted Emission | | | | |
| Test Receiver | Rohde & Schwarz | ESCS30 | 100307 | 2015-01-11 |
| L.I.S.N. | Schwarzbeck | NLSK8126 | 8126431 | 2015-01-11 |
| L.I.S.N. | Rohde & Schwarz | ESH3-Z5 | 100310 | 2015-01-11 |
| Pulse Limiter | Rohde & Schwarz | ESH3-Z2 | 100815 | 2015-01-11 |
| 50Ω Coaxial Switch | Anritsu Corp | MP59B | 6200283933 | 2015-01-11 |
| RF Coaxial Cable | SUHNER | N-2m | No.3 | 2015-01-11 |



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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 basics 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

| It | Extended Uncertainty | |
|-----------------------------------|----------------------------|-----------------------|
| Conducted Emission (0.15-30MHz) | Disturbance Voltage (dBuV) | U=±2.23dB, k=2, σ=95% |
| Radiated Emission (30-1000MHz) | Field strength (dBuV/m) | U=±4.42dB, k=2, σ=95% |
| Radiated Emission (1-25GHz) | Field strength (dBuV/m) | U=±4.06dB, k=2, σ=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.



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2.8 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test

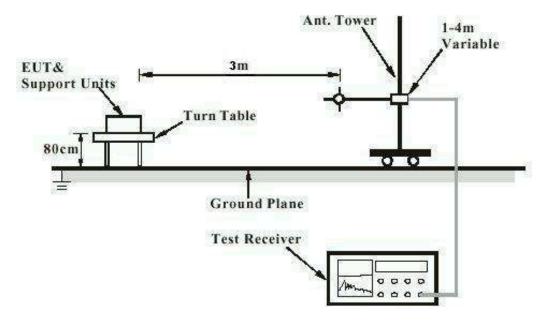
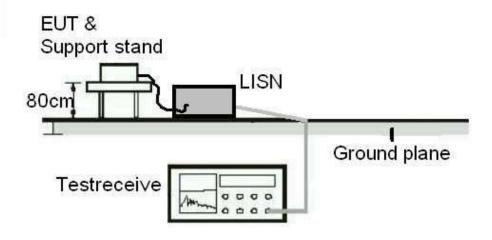


Diagram of Measurement Equipment Configuration for Conduction Measurement





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3. General Product Information

3.1 Product Function and Intended Use

The EUT is 8" tablet with Wi-Fi & Bluetooth 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-15AT08 T8240RK-88T | | | | |
| FCC ID | XUZNS-15AT08 | | | | |
| IC | 10558A-NS15AT08 | | | | |
| Extreme Temperature Range | -30~+75°C | | | | |
| Operation Voltage | DC 3.7V (via built in battery) | | | | |
| Operation voitage | 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

Products

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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 |
|---------------|--------------|-------------------|------------|--|
| AC/DC Adapter | Ktec | KSAPK0110500200FU | N/A | Input: AC 100-240V, 50/60Hz, 0.5A Output: DC 5V, 2A |
| 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 |
|-----------------------|--------------------------------|----------------------|
| AC Mains of adapter | 2 cores, non-shielded port, 3m | AC Power Input |
| Micro USB port | 4 cores, non-shielded port, 3m | DC Power Input |
| Earphone port | 2 cores, non-shielded port, 3m | Audio Output |
| Microphone | 2 cores, non-shielded port, 3m | Audio 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.



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5. Test Results of EMISSION

5.1 Emission in the Frequency Range up to 30 MHz

5.1.1 Conducted emissions

RESULT: Pass

Date of testing : 2014-05-10

Test standard : FCC Part 15.107 (a)

ICES-003 Issue 5 February 2012

Basic standard : ANSI C63.4: 2003 Frequency range : 0.15 – 30MHz Limits : FCC Part 15.107(a)

ICES-003 Issue 5 February 2012

Kind of test site : Shield room

Test setup

Input Voltage : AC 120V, 60Hz

Operation Mode : A, B

Earthing : Not Connected

For details refer to following test plot.



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ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

Tablet M/N:NS-15AT08

Manufacturer: Keen High Operating Condition: Transfer data Test Site: 1#Shielding Room

Operator: PEI

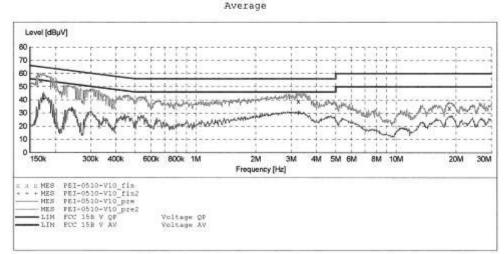
Test Specification: L 120V/60Hz

Comment:

Start of Test: 5/10/2014 / 9:55:21AM

SCAN TABLE: "V 150K-30MHz fin"
Short Description: SUB_STD_VTERM2 1.70

Start Stop Step Frequency Frequency Width 150.0 kHz 30.0 MHz 4.5 kHz Detector Meas. IF. Bandw. Time QuasiPeak 1.0 s NSLK8126 2008 9 kHz



MEASUREMENT RESULT: "PEI-0510-V10_fin"

| 5/10/2014 10: | 04AM | | | | | | |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
| 0.169760 | 54.70 | 10.5 | 65 | 10.3 | QP | L1 | GND |
| 3.256746 | 38.90 | 11.1 | 56 | 17.1 | QP | Ll | GND |
| 18.490511 | 33.70 | 11.4 | 60 | 26.3 | OP | LI | GND |

MEASUREMENT RESULT: "PEI-0510-V10 fin2"

| 5/10/2014 10: | 04AM | | | | | | |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
| 0.175970 | 41.00 | 10.5 | 55 | 13.7 | AV | L1 | GND |
| 0.241214 | 32.20 | 10.6 | 52 | 19.9 | AV | 1.1 | GND |
| 3.256746 | 29.90 | 11.1 | 46 | 16.1 | AV | L1 | GND |



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ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

Tablet M/N:NS-15AT08 EUT:

Manufacturer: Keen High Operating Condition: Transfer data Test Site: 1#Shielding Room

Operator: PEI

Test Specification: N 120V/60Hz

Comment:

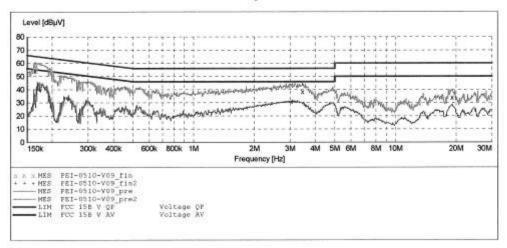
Start of Test: 5/10/2014 / 9:46:09AM

SCAN TABLE: "V 150K-30MHz fin"
Short Description: SUB STD VTERM2 1.70

Detector Meas. Step IF Start Transducer Stop Bandw. Time

Frequency Frequency Width 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008

Average



MEASUREMENT RESULT: "PEI-0510-V09 fin"

| 5/10/2014 9:5 | 4AM | | | | | | |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
| 0.164425 | 53.90 | 10.5 | 65 | 11.3 | QP | N | GND |
| 3.457718 | 38.20 | 11.1 | 56 | 17.8 | QP | N | GND |
| 19.090557 | 33.80 | 11.4 | 60 | 26.2 | QP | N | GND |

MEASUREMENT RESULT: "PEI-0510-V09_fin2"

| 4AM | | | | | | |
|---------------|---------------------------------|---|--|--|---|---|
| Level dBµV | Transd dB | Limit dBµV | Margin dB | Detector | Line | PE |
| 39.90 | 10.5 | 55 | 14.9 | AV | N | GND |
| 32.50 | 10.6 | 52 | 19.6 | AV | N | GND |
| 30.40 | 11.1 | 46 | 15.6 | AV | N | GND |
| | Level dBµV 39.90 32.50 | Level Transd dBμV dB 39.90 10.5 32.50 10.6 | Level Transd Limit dBµV dB dBµV 39.90 10.5 55 32.50 10.6 52 | Level Transd Limit Margin dBμV dB dBμV dB 39.90 10.5 55 14.9 32.50 10.6 52 19.6 | Level Transd Limit Margin Detector dBµV dB dBµV dB 39.90 10.5 55 14.9 AV 32.50 10.6 52 19.6 AV | Level Transd Dimit dBμV Limit dBμV Margin dB Detector Line dBμV 39.90 10.5 55 14.9 AV N 32.50 10.6 52 19.6 AV N |



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5.2 Emission in the Frequency Range above 30 MHz

5.2.1 Radiated Emission

RESULT: Pass

Date of testing : 2014-05-11~2014-05-12 Test standard : FCC Part 15.109 (a)

ICES-003 Issue 5 February 2012

Test procedure : ANSI C63.4: 2003 Frequency range : 30 - 25000MHz

Equipment Classification : Class B

Limits : FCC Part 15.109(a)

ICES-003 Issue 5 February 2012

Kind of test site : 3m Semi-Anechoic Chamber

Test setup

Input Voltage : AC 120V, 60Hz

Operation mode : A, B

Earthing : Not connected

Ambient temperature : 25° C Relative humidity : 52% Atmospheric pressure : 101kPa

For details refer to following test plot. (Only the worst case is shown)



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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

Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: PHY #1579

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT:

Tablet

Mode: Transfer data Model: NS-15AT08

Manufacturer: Keen High

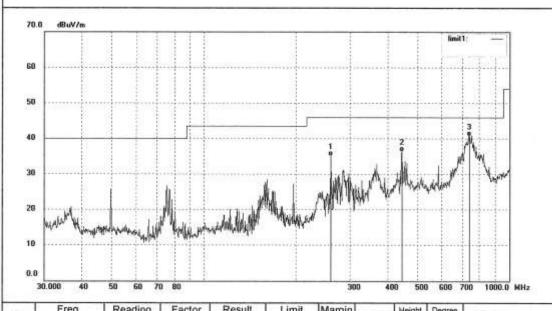
Polarization: Horizontal

Power Source: DC 5V Date: 2014/05/12

Time:

Engineer Signature:

Distance:



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark | |
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|--|
| 1 | 260.0433 | 45.81 | -10.72 | 35.09 | 46.00 | -10.91 | QP | | | | |
| 2 | 445.2299 | 42.13 | -5.86 | 36.27 | 46.00 | -9.73 | QP | | | | |
| 3 | 745.2136 | 41,86 | -1.11 | 40.75 | 46.00 | -5.25 | QP | | | | |



Site: 2# Chamber

Produkte Products

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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

an Rd, Tel:+86-0755-26503290 R.China Fax:+86-0755-26503396

Job No.: PHY #1578

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Tablet

Mode: Transfer data

Model: NS-15AT08

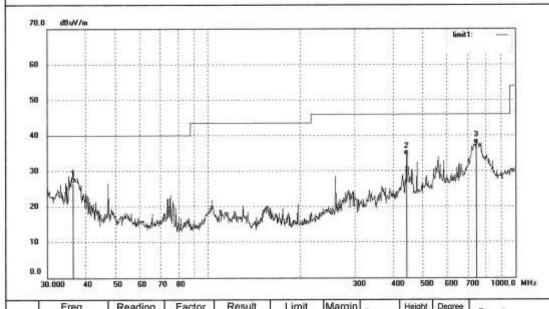
Manufacturer: Keen High

Polarization: Vertical Power Source: DC 5V Date: 2014/05/12

Time:

Engineer Signature:

Distance:



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark | |
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|--|
| 1 | 36.3955 | 37.47 | -10.73 | 26.74 | 40.00 | -13.26 | QP | | | | |
| 2 | 445.5722 | 40.25 | -5.85 | 34.40 | 46.00 | -11.60 | QP | | | | |
| 3 | 751.0467 | 38.55 | -1.02 | 37.53 | 46.00 | -8.47 | QP | 11 - 12 | | | |



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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

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Mode: Tablet

Transfer data

Model: NS-15AT08

Manufacturer: Keen High

Polarization: Horizontal

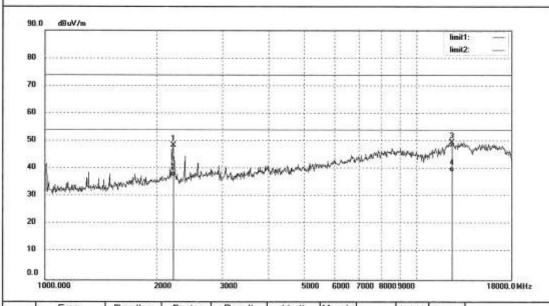
Power Source: DC 5V

Date: 2014-5-11

Time:

Engineer Signature: PEI

Distance:



| No. | (MHz) | (dBuV/m) | Factor (dB) | (dBuV/m) | (dBuV/m) | Margin (dB) | Detector | Height (cm) | (deg.) | Remark |
|-----|-----------|----------|----------------|----------|----------|----------------|----------|----------------|--------|--------|
| 1 | 2224.968 | 56.57 | -8.17 | 48.40 | 74.00 | -25.60 | peak | | | |
| 2 | 2224.968 | 45.47 | -8.17 | 37.30 | 54.00 | -16.70 | AVG | | | |
| 3 | 12437.385 | 11.32 | 38.34 | 49.66 | 74.00 | -24.34 | peak | | | |
| 4 | 12437.385 | 0.77 | 38.34 | 39.11 | 54.00 | -14.89 | AVG | | | |



Site: 2# Chamber Tel:+86-0755-26503290

Products

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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

n,P.R.China Fax:+86-0755-26503396
Polarization: Vertical
Power Source: DC 5V

Date: 2014-5-11

Time:

Engineer Signature: PEI

Distance:

Job No.: PHY #1435

Standard: FCC Class B 3M Radiated

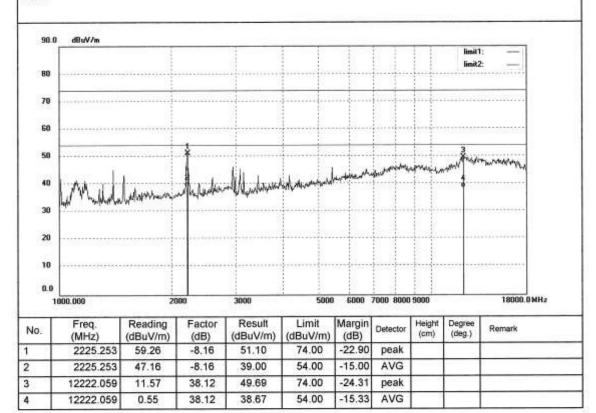
Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT; Mode: Tablet

Mode: Transfer data Model: NS-15AT08

Manufacturer: Keen High





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Site: 2# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Polarization: Horizontal Power Source: DC 5V

Date: 2014-5-11

Time:

Engineer Signature: PEI

Distance:

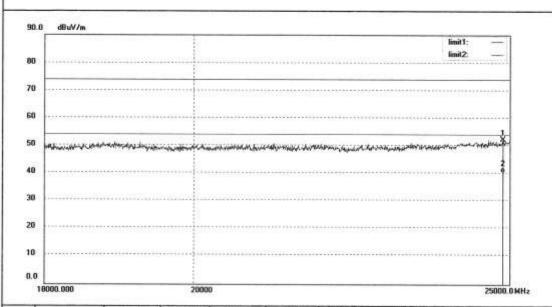
PHY #1449

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Tablet Mode: Transfer data Model: NS-15AT08 Manufacturer: Keen High



| No. | Freq. (MHz) | Reading (dBuV/m) | 4 300 9 9 0 1 | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark | |
|-----|----------------|---------------------|---------------|--------------------|-------------------|----------------|----------|-------------|------------------|--------|--|
| 1 | 24885.058 | 33.54 | 18.74 | 52.28 | 74.00 | -21.72 | peak | | | | |
| 2 | 24885.058 | 21.64 | 18.74 | 40.38 | 54.00 | -13.62 | AVG | | | | |



Products

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ACCURATE TECHNOLOGY CO., LTD.

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Job No.: PHY #1448

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Tablet Mode: Transfe

Transfer data NS-15AT08

Model: NS-15AT08 Manufacturer: Keen High Polarization: Vertical

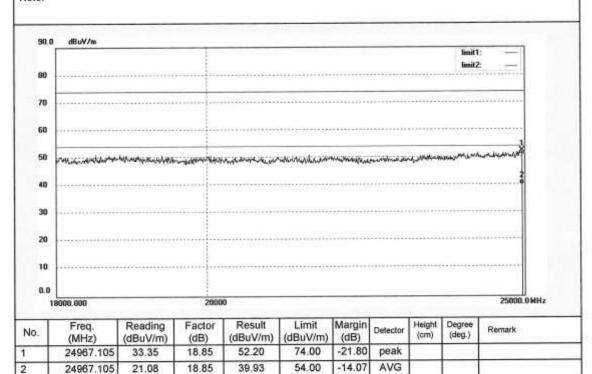
Power Source: DC 5V

Date: 2014-5-11

Time:

Engineer Signature: PEI

Distance:





Prüfbericht - Nr.: 17040153 003

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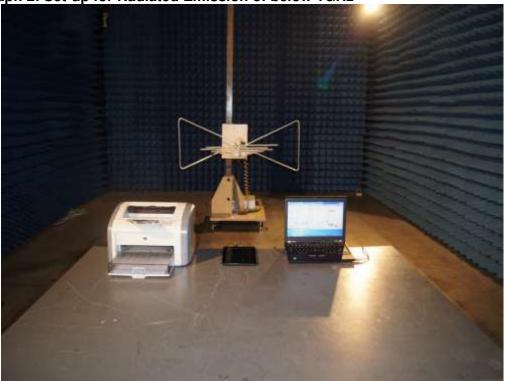
Test Report No.

6. Photographs of the Test Set-Up

Photograph 1: Set-up for Conducted Emission



Photograph 2: Set-up for Radiated Emission of below 1GHz



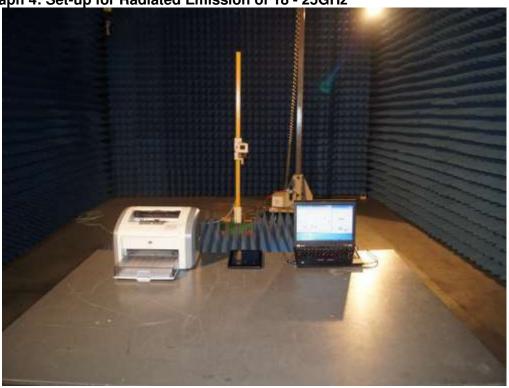
> Prüfbericht - Nr.: 17040153 003

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



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





Produkte

Products

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