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# **TEST SUMMARY**

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

**5.1.2 PEAK OUTPUT POWER** 

RESULT: Pass

5.1.3 20DB BANDWIDTH AND 99% BANDWIDTH

RESULT: Pass

5.1.4 6DB BANDWIDTH AND 99% BANDWIDTH

RESULT: Pass

5.1.5 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100kHz BANDWIDTH

RESULT: Pass

5.1.6 POWER SPECTRAL DENSITY

RESULT: Pass

5.1.7 Spurious Emission

RESULT: Pass

5.1.8 FREQUENCY SEPARATION

RESULT: Pass

5.1.9 NUMBER OF HOPPING FREQUENCY

RESULT: Pass

5.1.10 TIME OF OCCUPANCY

RESULT: Pass

5.1.11 CONDUCTED EMISSIONS

RESULT: Pass

8.

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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 emissions & Receiver spurious emissions							
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			
50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	2015-01-11			
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	2015-01-11			
Temp. & Humid. Chamber	Gongwen	HSD-500	0109	2015-01-11			
Radio Spectrum Test							
EMI Test Receiver	Rohde&Schwarz	ESPI-3	100396/003	2015-01-11			
Spectrum Analyzer	Agilent	E7405A	MY45115511	2015-01-11			
Temp. & Humid. Chamber	Gongwen	HSD-500	0109	2015-01-11			
Conducted Emission							
Test Receiver	Rohde&Schwarz	ESCS30	100307	2015-01-11			
L.I.S.N.	Schwarzbeck	NLSK8126	8126431	2015-01-11			
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100815	2015-01-11			
50Ω Coaxial Switch	Anritsu Corp	MP59B	6200283933	2015-01-11			

## 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.

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# 2.5 Measurement Uncertainty

**Table 2: Measurement Uncertainty** 

Parameter	Uncertainty
Radio Spectrum	< ± 0.60 dB
Radiated emission of transmitter, valid up to 26.5 GHz	< ± 4.42 dB
Conducted Emission	< ± 2.23 dB
Radiated Emission	< ± 4.42 dB

# 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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## 3. General Product Information

## 3.1 Product Function and Intended Use

The EUT is 10" tablet with Wi-Fi & Bluetooth function. For details refer to the User Manual and Circuit Diagram.

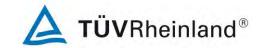
# 3.2 Ratings and System Details

Table 3: Technical Specification of Bluetooth (BDR & EDR mode)

Technical Specification	Value
Kind of Equipment	Tablet
Type Designation	NS-15AT10
FCC ID	XUZNS-15AT10
IC	10558A-NS15AT10
Operating Frequency band	2402 – 2480MHz
Channel separation	1MHz
Extreme Temperature Range	-30~+75°C
Operation Voltage	DC 3.7V (via built in battery)
	DC 5V (via AC/DC adapter)
Modulation	FHSS, GFSK, 8DPSK, π/4DQPSK
Bluetooth version	4.0, Dual Mode
Antenna Gain	1.63dBi

Table 4: RF channel and frequency of Bluetooth (BDR & EDR mode)

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
0	2402.00	21	2423.00	42	2444.00	63	2465.00
1	2403.00	22	2424.00	43	2445.00	64	2466.00
2	2404.00	23	2425.00	44	2446.00	65	2467.00
3	2405.00	24	2426.00	45	2447.00	66	2468.00
4	2406.00	25	2427.00	46	2448.00	67	2469.00
5	2407.00	26	2428.00	47	2449.00	68	2470.00
6	2408.00	27	2429.00	48	2450.00	69	2471.00
7	2409.00	28	2430.00	49	2451.00	70	2472.00
8	2410.00	29	2431.00	50	2452.00	71	2473.00
9	2411.00	30	2432.00	51	2453.00	72	2474.00
10	2412.00	31	2433.00	52	2454.00	73	2475.00
11	2413.00	32	2434.00	53	2455.00	74	2476.00



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12	2414.00	33	2435.00	54	2456.00	75	2477.00
13	2415.00	34	2436.00	55	2457.00	76	2478.00
14	2416.00	35	2437.00	56	2458.00	77	2479.00
15	2417.00	36	2438.00	57	2459.00	78	2480.00
16	2418.00	37	2439.00	58	2460.00		<u>.</u>
17	2419.00	38	2440.00	59	2461.00		
18	2420.00	39	2441.00	60	2462.00		
19	2421.00	40	2442.00	61	2463.00		
20	2422.00	41	2443.00	62	2464.00		

## Table 5: Technical Specification of Buletooth (LE mode)

Technical Specification	Value
Kind of Equipment	Tablet
Type Designation	NS-15AT10
Operating Frequency band	2402 – 2480MHz
Channel separation	2MHz
Extreme Temperature Range	-30~+75°C
Operation Voltage	DC 3.7V (via built in battery)
	DC 5V (via AC/DC adapter)
Modulation	GFSK
Bluetooth version	4.0
Antenna Gain	1.63dBi

## Table 6: RF channel and frequency of Buletooth (LE mode)

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
0	2402.00	11	2424.00	22	2446.00	33	2468.00
1	2404.00	12	2426.00	23	2448.00	34	2470.00
2	2406.00	13	2428.00	24	2450.00	35	2472.00
3	2408.00	14	2430.00	25	2452.00	36	2474.00
4	2410.00	15	2432.00	26	2454.00	37	2476.00
5	2412.00	16	2434.00	27	2456.00	38	2478.00
6	2414.00	17	2436.00	28	2458.00	39	2480.00
7	2416.00	18	2438.00	29	2460.00		
8	2418.00	19	2440.00	30	2462.00		
9	2420.00	20	2442.00	31	2464.00		
10	2422.00	21	2444.00	32	2466.00		

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## 3.3 Independent Operation Modes

The basic operation modes are:

- A. On
  - 1. Bluetooth mode (BDR & EDR mode)
    - a. Tansmitting
      - i. Low Channel
      - ii. Middle Channel
      - iii. High Channel
    - b. Receiving
  - 2. Bluetooth mode (LE mode)
    - a. Tansmitting
      - i. Low Channel
      - ii. Middle Channel
      - iii. High Channel
    - b. Receiving
- B. Standby
- C. Off

## 3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

# 3.5 Submitted Documents

- Bill of Material

- PCB Layout

- Photo Document

- Circuit Diagram

- Instruction Manual

- Rating Label



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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
Notebook PC	Lenovo	4290-RT8	R9-FW93G	N/A
AC/DC Adapter	Ktec	KSAPK01105002 00FU	N/A	Input: AC 100-240V, 50/60Hz, 0.5A Output: DC 5V, 2A

### 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

# 4.4 Countermeasures to achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

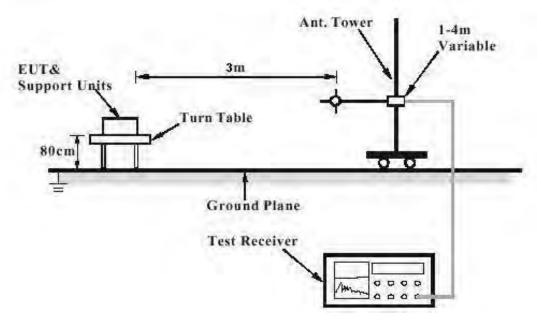


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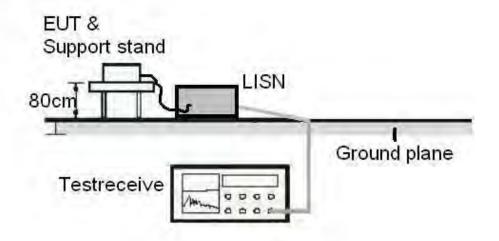
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# 4.5 Test Setup Diagram

**Diagram of Measurement Configuration for Radiation Test** 



**Diagram of Measurement Equipment Configuration for Conduction Measurement** 





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## 5. Test Results

# 5.1 Transmitter Requirement & Test Suites

## 5.1.1 Antenna Requirement

RESULT: Pass

Test standard : FCC Part 15.247(b)(4) and Part 15.203

RSS-Gen 7.1.4

Limit The use of antennas with directional gains that do

not exceed 6dBi

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is 1.63dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

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### 5.1.2 Peak Output Power

**RESULT: Pass** 

Test date 2014-05-29

Test standard FCC Part 15.247(b)(1)

FCC Part 15.247(b)(3)

RSS-210 A8.4(2) RSS-210 A8.4(4)

Basic standard ANSI C63.4: 2003

Clause 9.1 of KDB 558074 v03r01

Limit 125mW. 1W Kind of test site Shielded room

**Test setup** 

Low/ Middle/ High

A.1.a, A.2.a

Operation Mode :
Ambient temperature :
Relative humidite **25**℃ Relative humidity 52% Atmospheric pressure : 101kPa

Table 7: Test result of Peak Output Power of Buletooth (BDR mode)

Channel	Channel Frequency	Peak Output Power	Limit
Chamer	(MHz)	(dBm)	(dBm)
Low Channel	2402	-0.88	21
Middle Channel	2441	-0.10	21
High Channel	2480	0.65	21

Table 8: Test result of Peak Output Power of Bluetooth (EDR mode)

Channel	Channel Frequency	Peak Output Power	Limit
Channel	(MHz)	(dBm)	(dBm)
Low Channel	2402	1.47	21
Middle Channel	2441	2.26	21
High Channel	2480	2.78	21

Table 9: Test result of Peak Output Power of Bluetooth (LE mode)

Channel	Channel Frequency	Peak Output Power	Limit
Chamilei	(MHz)	(dBm)	(dBm)
Low Channel	2402	0.65	30
Middle Channel	2440	1.16	30
High Channel	2480	1.47	30



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### 5.1.3 20dB Bandwidth and 99% Bandwidth

**RESULT: Pass** 

Date of testing 2014-05-29

Test standard FCC Part 15.247(a)(1)

RSS-210 A8.1(a)

ANSI C63.4: 2003 Basic standard

Clause 8 of KDB 558074 v03r01

Kind of test site Shielded room

**Test setup** 

Low/ Middle/ High

Operation Mode :
Ambient temperature :
Relative humidity A.1.a **25**℃ 52% Atmospheric pressure : 101kPa

### Table 10: Test result of 20dB & 99% Bandwidth of BDR mode

Channel	Channel	20dB Bandwidth	99% Bandwidth	
	Frequency (MHz)	(MHz)	(MHz)	
Low Channel	2402	0.978	0.978	
Mid Channel	2441	0.978	0.984	
High Channel	2480	0.978	0.984	

### Table 11: Test result of 20dB & 99% Bandwidth of EDR mode

Channel	Channel	20dB Bandwidth	99% Bandwidth
	Frequency (MHz)	(MHz)	(MHz)
Low Channel	2402	1.290	1.224
Mid Channel	2441	1.284	1.224
High Channel	2480	1.290	1.218



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### 5.1.4 6dB Bandwidth and 99% Bandwidth

**RESULT: Pass** 

Date of testing 2014-05-29

Test standard FCC Part 15.247(a)(2)

RSS-210 A8.2(a)

Basic standard ANSI C63.4: 2003

Clause 8 of KDB 558074 v03r01

Kind of test site Shielded room

**Test setup** 

Low/ Middle/ High

Operation Mode :
Ambient temperature :
Relative humidity A.2.a **25**℃ 52% Atmospheric pressure : 101kPa

Table 12: Test result of 6dB & 99% Bandwidth of Bluetooth, LE mode

Channel	Channel	6dB Bandwidth	99% Bandwidth
Onamici	Frequency (MHz)	(MHz)	(MHz)
Low Channel	2402	0.720	1.074
Mid Channel	2440	0.720	1.074
High Channel	2480	0.720	1.080



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## 5.1.5 Conducted Spurious Emissions measured in 100kHz Bandwidth

**RESULT: Pass** 

2014-06-05 Date of testing

Test standard FCC part 15.247(d)

RSS-210 A8.5

Basic standard ANSI C63.4: 2003

Limit 20dB (below that in the 100kHz bandwidth within

the band that contains the highest level of the

desired power);

Shield room Kind of test site

**Test setup** 

**Test Channel** Low/ Middle/ High

A.1.a, A.2.a

Operation mode :
Ambient temperature :
Relative humidity : **25**℃ Relative humidity 52% Atmospheric pressure : 101kPa

For details refer to following test plot.

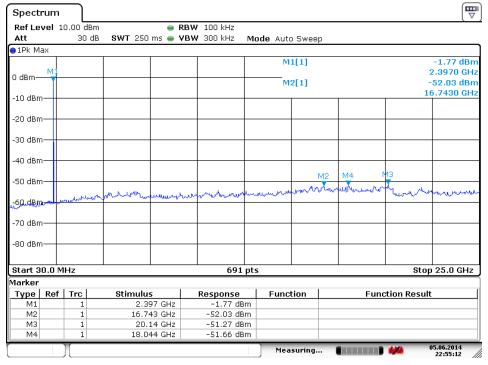
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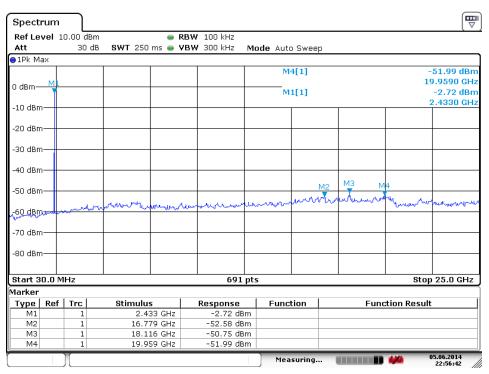
# Test Plot of Conducted spurious emissions measured in 100kHz Bandwidth of BDR mode

### **Low Channel**



Date: 5.JUN.2014 22:55:12

### Middle Channel



Date: 5.JUN.2014 22:56:42

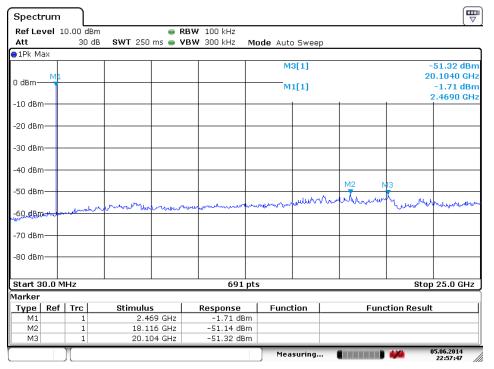


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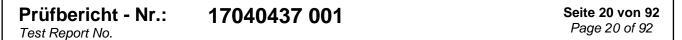
### **High Channel**



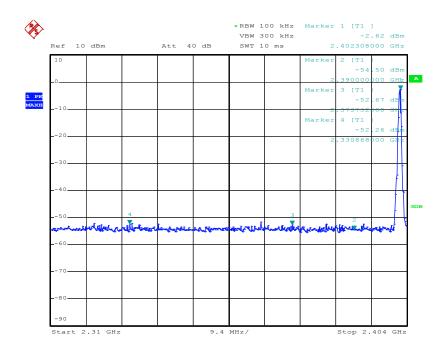
Date: 5.JUN.2014 22:57:47



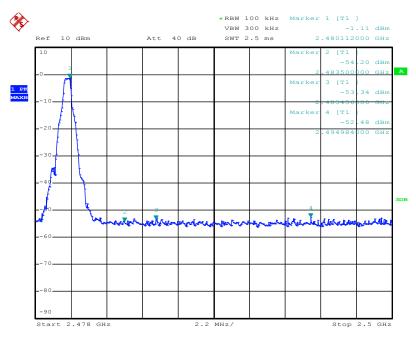
**Products** 



### **Band Edge**



Date: 29.MAY.2014 17:53:00



Date: 29.MAY.2014 17:55:38

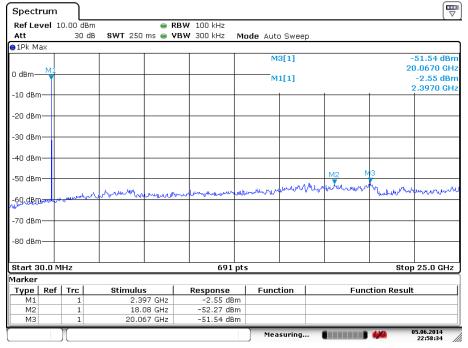
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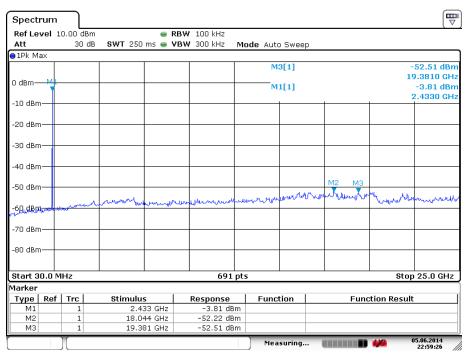
# Test Plot of Conducted spurious emissions measured in 100kHz Bandwidth of EDR mode

### **Low Channel**



Date: 5.JUN.2014 22:58:35

### Middle Channel



Date: 5.JUN.2014 22:59:26



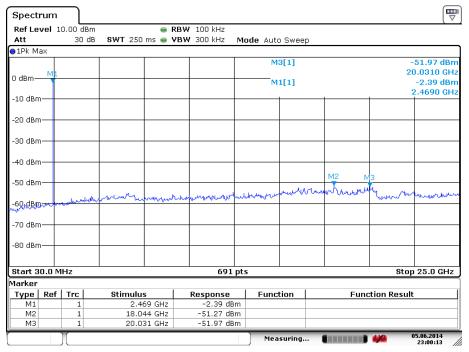
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### **High Channel**

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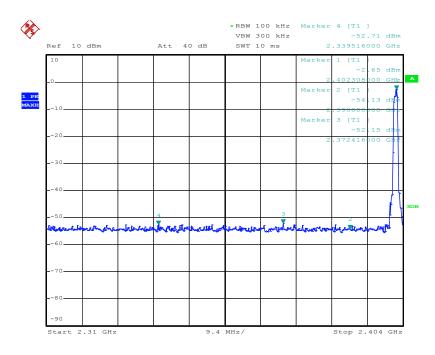
Date: 5.JUN.2014 23:00:13



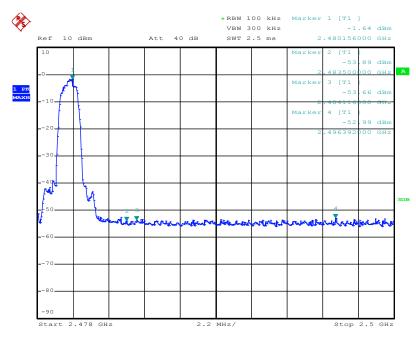
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### **Band Edge**



Date: 29.MAY.2014 17:53:52



Date: 29.MAY.2014 17:54:56

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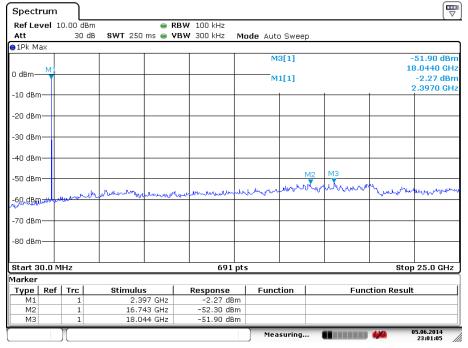
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## Test Plot of Conducted spurious emissions measured in 100kHz Bandwidth of LE mode

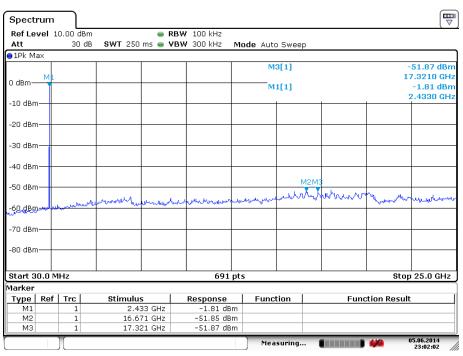
### **Low Channel**

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Date: 5.JUN.2014 23:01:06

### Middle Channel



Date: 5.JUN.2014 23:02:03



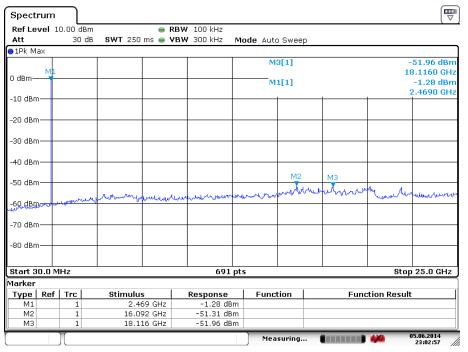
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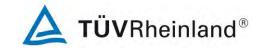
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### **High Channel**

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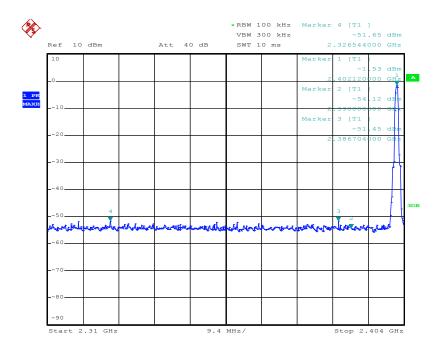
Date: 5.JUN.2014 23:02:58



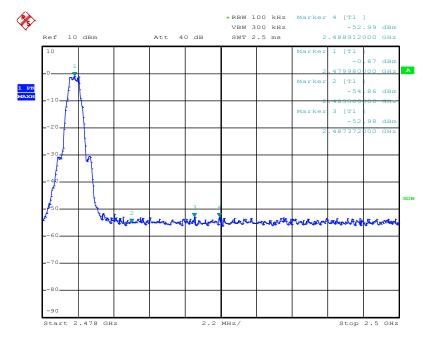
**Products** 



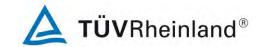
### **Band Edge**



Date: 29.MAY.2014 19:15:42



Date: 29.MAY.2014 19:16:31



**Products** 

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Test Report No.

## 5.1.6 Power spectral density

**RESULT: Pass** 

Date of testing 2014-05-29

Test standard FCC part 15.247(e)

RSS-210 A8.2

Basic standard ANSI C63.4: 2003

Clause 10 of KDB 558074 v03r01

8dBm/3kHz Limit Kind of test site Shield room

**Test setup** 

Test Channel Low/ Middle/ High

Test Channel :
Operation mode :
Ambient temperature :
Relative humidity :
Atmospheric pressure : A.2.a **25**℃ 52% 101kPa

## Table 13: Test result of power spectral density:

Mode	Channel (MHz)	Result (dBm/3kHz)	Limit (dBm/3kHz)	Conclusion
	2402	-13.89	8	Pass
Bluetooth LE mode	2440	-13.43	8	Pass
	2480	-13.03	8	Pass



**Products** 

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## **5.1.7 Spurious Emission**

**RESULT: Pass** 

Date of testing 2014-06-07

Test standard FCC part 15.247(d)

RSS-210 Clause 2.2

Basic standard ANSI C63.4: 2003

Clause 11 of KDB 558074 v03r01

FCC part 15.209(a) Limits

Kind of test site 3m Semi-Anechoic Chamber

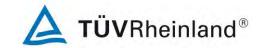
**Test setup** 

Test Channel Low/ Middle/ High

A.1.a, A.2.a

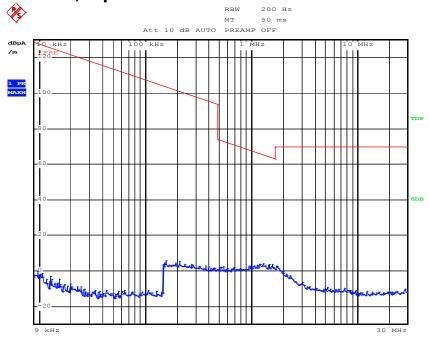
Test Channel :
Operation mode :
Ambient temperature :
Relative humidity :
Atmospheric pressure : **25**℃ 52% 101kPa

For details refer to following test plot.



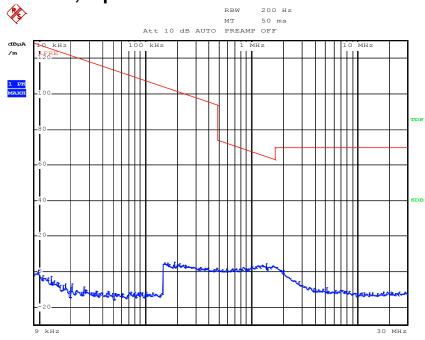
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# Test Plot of Spurious Emission of transmitting of Bluetooth BDR mode Low channel, X polarization:



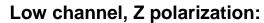
Date: 5.JUN.2014 08:49:57

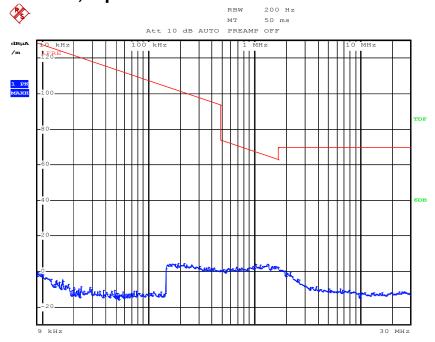
# Low channel, Y polarization:



Date: 5.JUN.2014 08:48:00

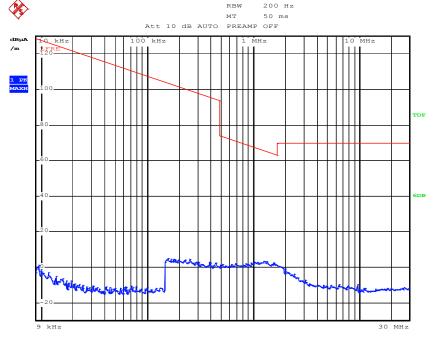






Date: 5.JUN.2014 08:51:52

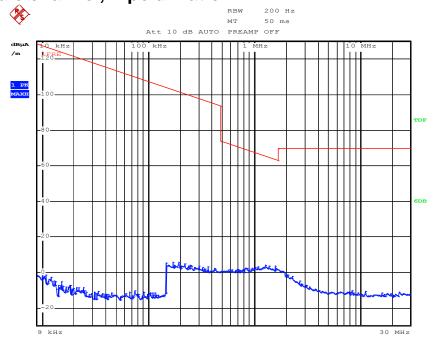
# Middle channel, X polarization:



Date: 5.JUN.2014 08:57:38

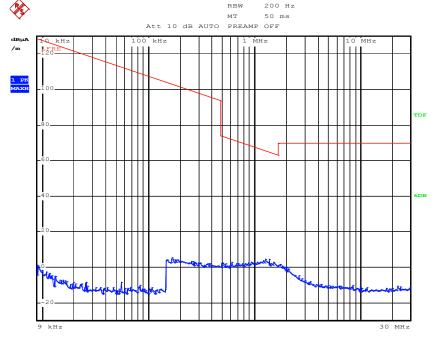


## Middle channel, Y polarization:



Date: 5.JUN.2014 08:53:47

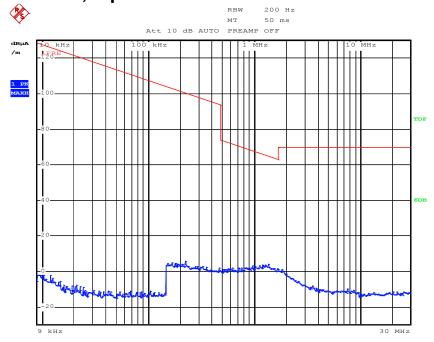
# Middle channel, Z polarization:



Date: 5.JUN.2014 08:55:43

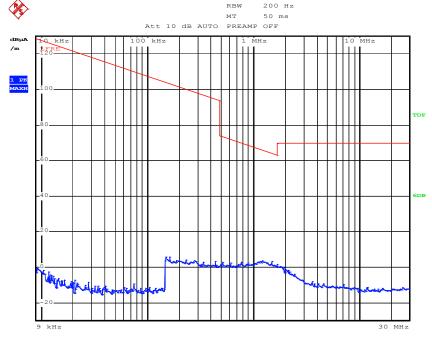


# High channel, X polarization:



Date: 5.JUN.2014 09:03:23

# High channel, Y polarization:



Date: 5.JUN.2014 08:59:32

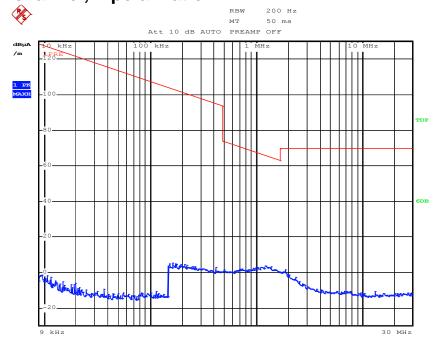


**Products** 

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# High channel, Z polarization:



Date: 5.JUN.2014 09:01:28



Site: 2# Chamber

### Produkte

**Products** 

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

Job No.: PZ #425 Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

Temp.( C)/Hum.(%) 23 C / 48 %
EUT: Tablet

Mode: TX 2402MHz
Model: NS-15AT10
Manufacturer: Keen High

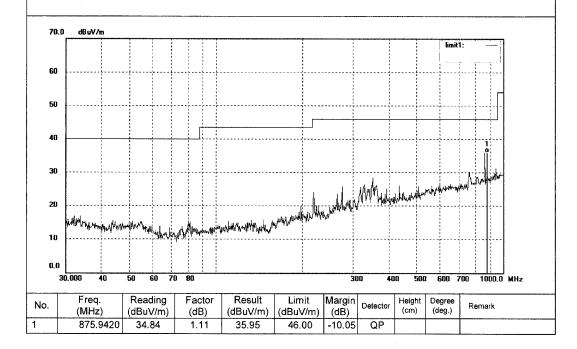
Note: Bluetooth

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 2014/06/07

Time:

Engineer Signature: PEI

Distance:





**Products** 

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

Job No.: PZ #424

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Tablet

Mode: TX 2402MHz

Model: NS-15AT10

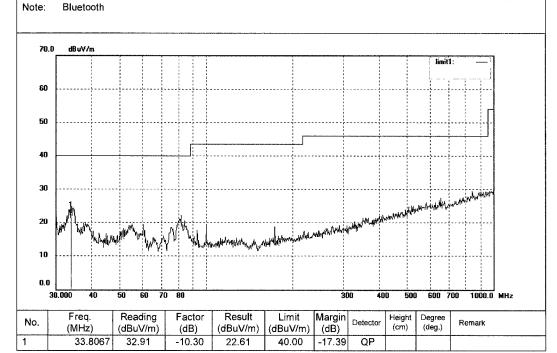
Manufacturer: Keen High

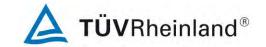
Polarization: Vertical
Power Source: AC 120V/60Hz

Date: 2014/06/07 Time:

Engineer Signature: PEI

Distance:





**Products** 

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

Job No.: PZ #426

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Tablet

Mode: TX 2441MHz
Model: NS-15AT10
Manufacturer: Keen High

Polarization: Horizontal

Power Source: AC 120V/60Hz

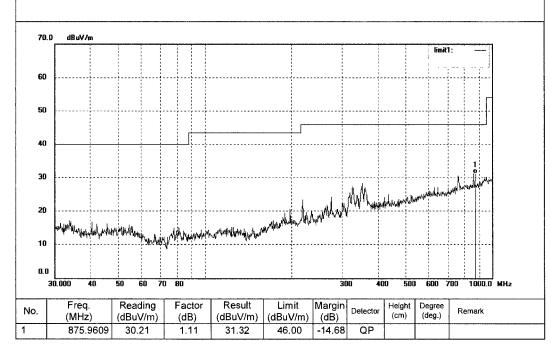
Date: 2014/06/07

Time:

Engineer Signature: PEI

Distance:

Note: Bluetooth





**Products** 

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Job No.: PZ #427

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Tablet

Mode: TX 2441MHz

Model: NS-15AT10

Manufacturer: Keen High

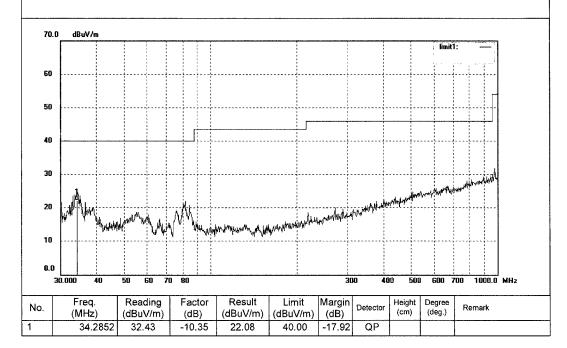
Note: Bluetooth

Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 2014/06/07 Time:

Engineer Signature: PEI





Site: 2# Chamber

### **Produkte**

**Products** 

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Job No.: PZ #429 Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Tablet

Mode: TX 2480MHz

Model: NS-15AT10

Manufacturer: Keen High

Polarization: Horizontal

Power Source: AC 120V/60Hz

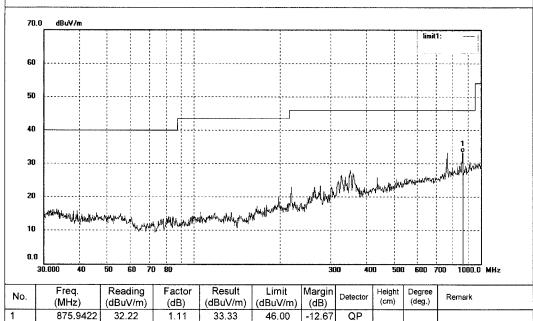
Date: 2014/06/07

Time:

Engineer Signature: PEI

Distance:

Note: Bluetooth





**Products** 

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Job No.: PZ #428

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Tablet

Mode: TX 2480MHz

Model: NS-15AT10

Manufacturer: Keen High

Note: Bluetooth

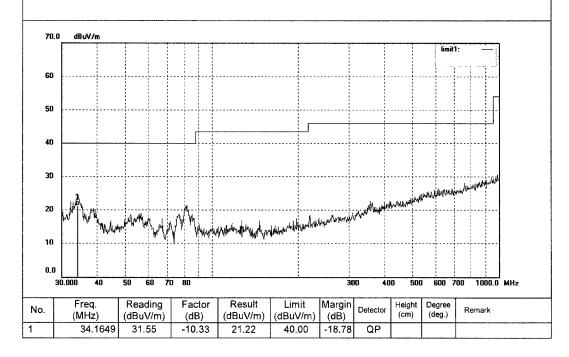
Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 2014/06/07

Time:

Engineer Signature: PEI





**Products** 

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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: Tablet Mode: TX 2402MHz Model: NS-15AT10 Manufacturer: Keen High

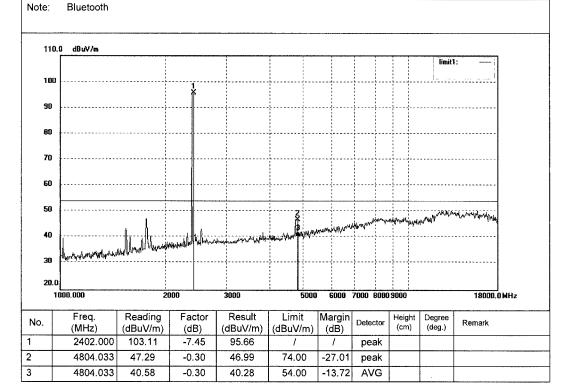
Bluetooth

Polarization: Horizontal Power Source: AC 120V/60Hz

Date: 14/05/29/

Time:

Engineer Signature: PEI





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

PZ #164

Standard: FCC Class B 3M Radiated

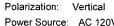
Test item: Radiation Test

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

EUT: Tablet Mode: TX 2402MHz

NS-15AT10 Model: Manufacturer: Keen High

Note: Bluetooth

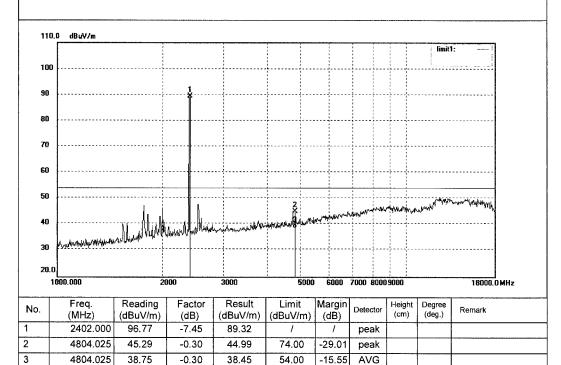


Power Source: AC 120V/60Hz

Date: 14/05/29/

Time:

Engineer Signature: PEI





**Products** 

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Job No.: PZ #169

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Tablet

Mode: TX 2441MHz Model: NS-15AT10

Manufacturer: Keen High
Note: Bluetooth

2

3

4882.024

4882.024

46.90

40.28

0.14

0.14

47.04

40.42

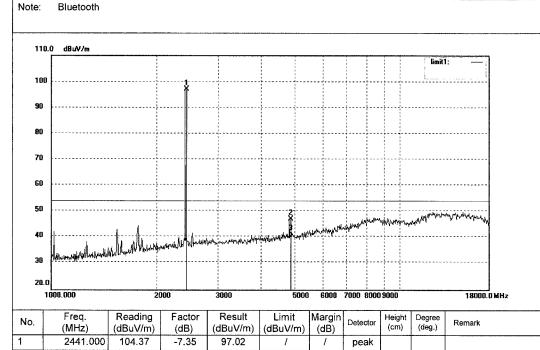
Polarization: Horizontal
Power Source: AC 120V/60Hz

Date: 14/05/29/

Time:

Engineer Signature: PEI

Distance:



74.00

54.00

-26.96

-13.58

peak

AVG



**Products** 

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JOD No.: PZ #168

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Tablet

Mode: TX 2441MHz

Model: NS-15AT10

Manufacturer: Keen High

Bluetooth

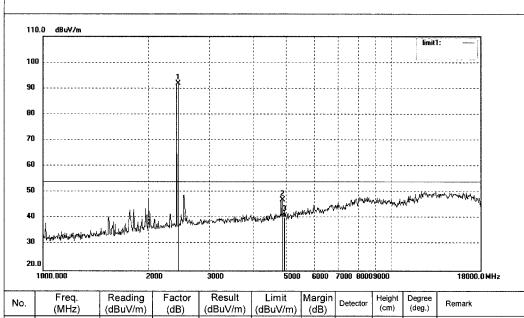
Note:

Polarization: Vertical
Power Source: AC 120V/60Hz

Date: 14/05/29/

Time:

Engineer Signature: PEI



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2441.000	99.24	-7.35	91.89	1	1	peak			
2	4882.025	47.07	0.14	47.21	74.00	-26.79	peak			
3	4882.025	40.15	0.14	40.29	54.00	-13.71	AVG			



**Products** 

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Job No.: PZ #170

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Tablet
Mode: TX 2480MHz
Model: NS-15AT10

Manufacturer: Keen High
Note: Bluetooth

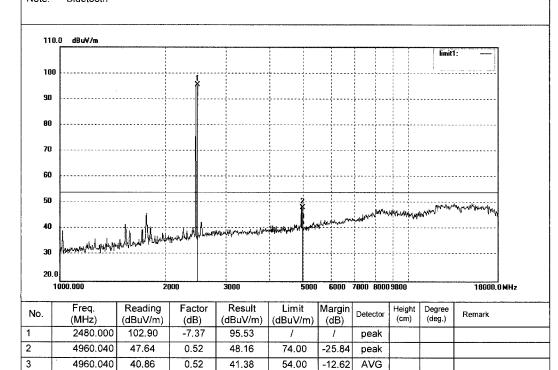
Polarization: Horizontal

Power Source: AC 120V/60Hz

Power Source: AC 120V/60I Date: 14/05/29/

Time:

Engineer Signature: PEI





**Products** 

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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: Tablet TX 2480MHz Mode: Model: NS-15AT10

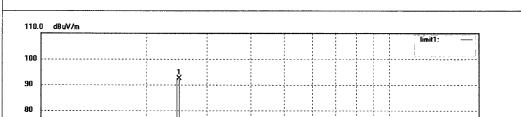
Manufacturer: Keen High Note: Bluetooth

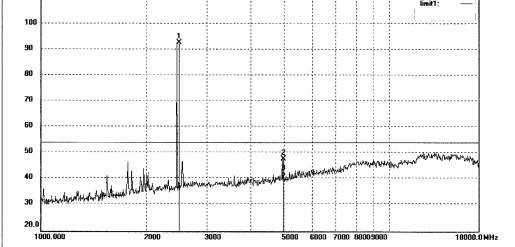
Date: 14/05/29/

Power Source: AC 120V/60Hz

Time:

Engineer Signature: PEI





No	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark	
1	2480.000	99.88	-7.37	92.51	1	1	peak				
2	4960.038	47.36	0.52	47.88	74.00	-26.12	peak				
3	4960.038	40.44	0.52	40.96	54.00	-13.04	AVG				



**Products** 

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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 %

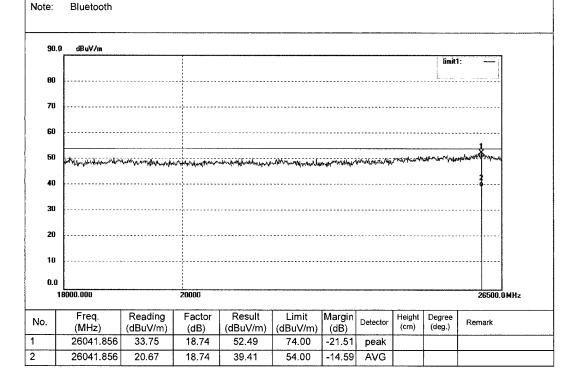
EUT: Tablet Mode: TX 2402MHz Model: NS-15AT10 Manufacturer: Keen High

Bluetooth

Polarization: Horizontal Power Source: AC 120V/60Hz

Date: 2014/06/07

Engineer Signature: PEI





**Products** 

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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: Tablet Mode: TX 2402MHz Model: NS-15AT10

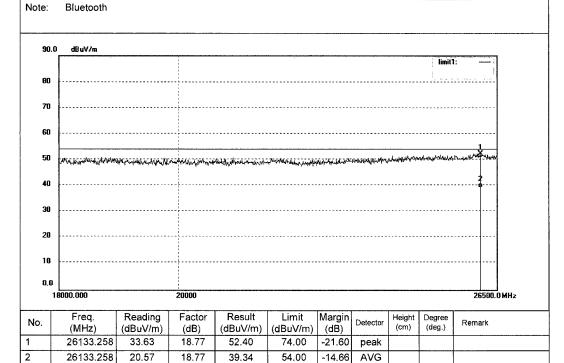
Manufacturer: Keen High

Bluetooth

Power Source: AC 120V/60Hz Date: 2014/06/07 Time:

Polarization: Vertical

Engineer Signature: PEI





**Products** 

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Job No.: PZ #443 Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Tablet

Mode: TX 2441MHz

Model: NS-15AT10

Manufacturer: Keen High
Note: Bluetooth

2

26122.720

20.60

18.77

39.37

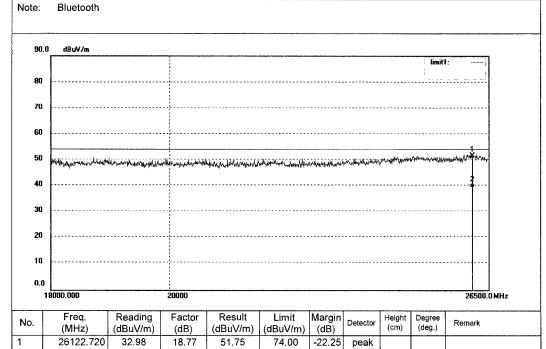
Polarization: Horizontal
Power Source: AC 120V/60Hz

Date: 2014/06/07

Time:

Engineer Signature: PEI

Distance:



54.00

-14.63

AVG



**Products** 

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

Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 2014/06/07

Time:

Engineer Signature: PEI

Distance:



Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Tablet

Mode: TX 2441MHz

Model: NS-15AT10

Manufacturer: Keen High

Note: Bluetooth

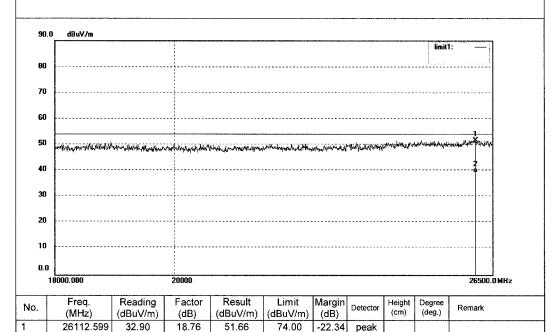
2

26112.599

20.49

18.76

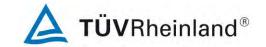
39.25



54.00

-14.75

AVG



**Products** 

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Test Report No.



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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 %

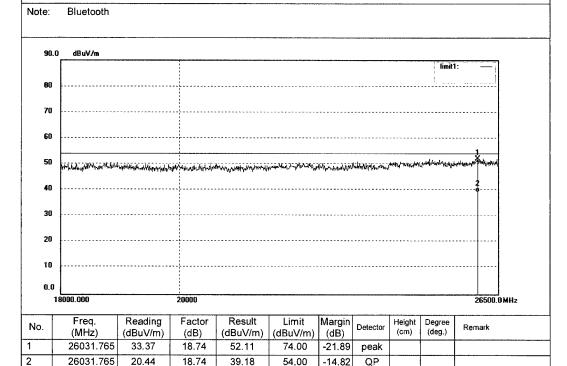
EUT: Tablet Mode: TX 2480MHz Model: NS-15AT10 Manufacturer: Keen High Polarization: Horizontal

Power Source: AC 120V/60Hz

Date: 2014/06/07 Time:

Engineer Signature: PEI

Distance:



-14.82

QP



**Products** 

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

Job No.: PZ #445

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Tablet

Mode: TX 2480MHz

Model: NS-15AT10

Manufacturer: Keen High

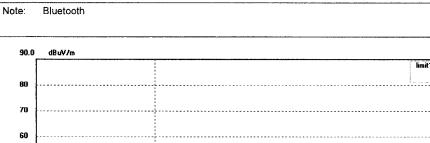
Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 2014/06/07

Time:

Engineer Signature: PEI



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70										

No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26051.950	33.46	18.74	52.20	74.00	-21.80	peak			
2	26051.950	20.55	18.74	39.29	54.00	-14.71	AVG			



**Products** 

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Test Report No.

# Test Plot of Frequency Band Edge of Bluetooth BDR mode



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

Job No.: PZ #166

Standard: FCC (Band Edge)

Test item: Radiation Test

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

EUT: Tablet
Mode: TX 2402MHz

Model: NS-15AT10 Manufacturer: Keen High Polarization: Horizontal
Power Source: AC 120V/60Hz

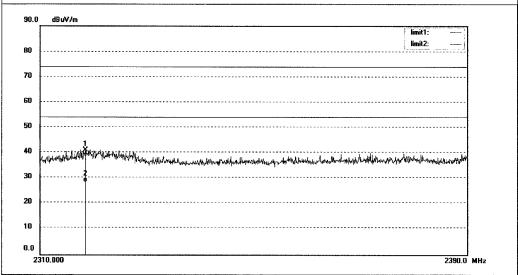
Date: 14/05/29/

Time:

Engineer Signature: PEI

Distance:

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2318.368	48.96	-7.80	41.16	74.00	-32.84	peak			
2	2318.368	36.20	-7.80	28.40	54.00	-25,60	AVG			



**Products** 

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Test Report No.

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Polarization: Vertical

Engineer Signature: PEI

Date: 14/05/29/

Time:

Distance:

Power Source: AC 120V/60Hz

Job No.: PZ #167

Standard: FCC (Band Edge)
Test item: Radiation Test

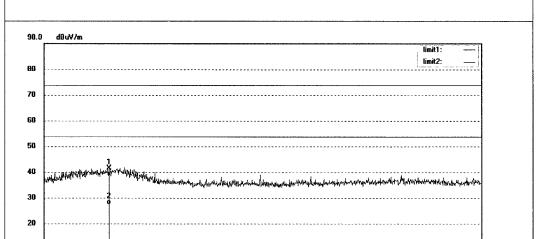
Temp.( C)/Hum.(%) 23 C / 48 %

EUT: Tablet
Mode: TX 2402MHz

Model: NS-15AT10 Manufacturer: Keen High

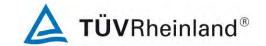
Note: Bluetooth

0.0 2310.000



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2321.845	49.85	-7.81	42.04	74.00	-31.96	peak			
2	2321.845	35.91	-7.81	28.10	54.00	-25.90	AVG			

2390.0 MHz



**Products** 

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

Job No.: PZ #179

Standard: FCC (Band Edge) Test item: Radiation Test

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

EUT: Tablet TX 2480MHz Mode: NS-15AT10 Model: Manufacturer: Keen High Polarization: Horizontal

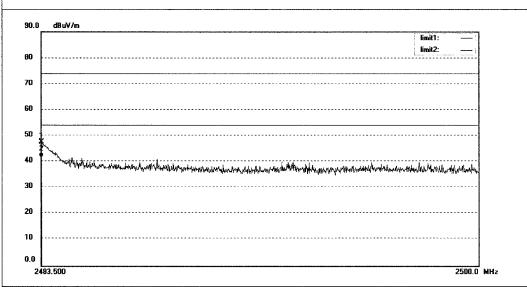
Power Source: AC 120V/60Hz

Date: 14/05/29/ Time:

Engineer Signature: PEI

Distance:

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark	
1	2483.500	54.91	-7.37	47.54	74.00	-26.46	peak				
2	2483.500	49.17	-7.37	41.80	54.00	-12.20	AVG				



**Products** 

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Job No.: PZ #178

Standard: FCC (Band Edge)
Test item: Radiation Test

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

EUT: Tablet
Mode: TX 2480MHz
Model: NS-15AT10

Manufacturer: Keen High

Note: Bluetooth

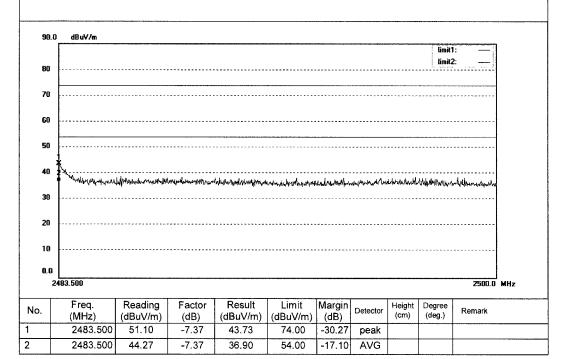
Polarization: Vertical

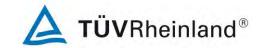
Power Source: AC 120V/60Hz

Date: 14/05/29/

Time:

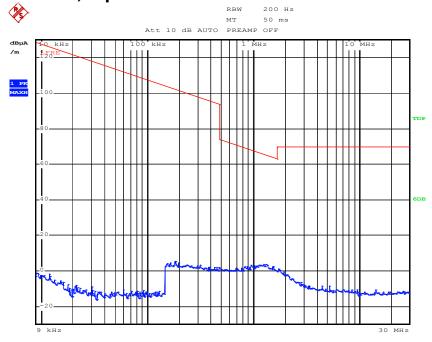
Engineer Signature: PEI





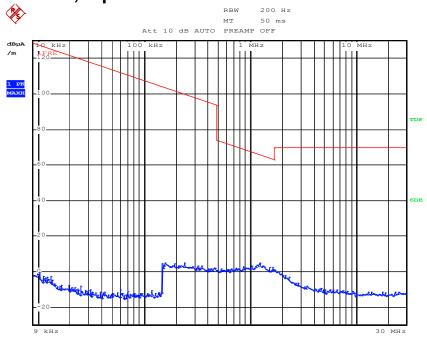
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# Test Plot of Spurious Emission of transmitting of Bluetooth LE mode Low channel, X polarization:



Date: 5.JUN.2014 09:05:20

# Low channel, Y polarization:

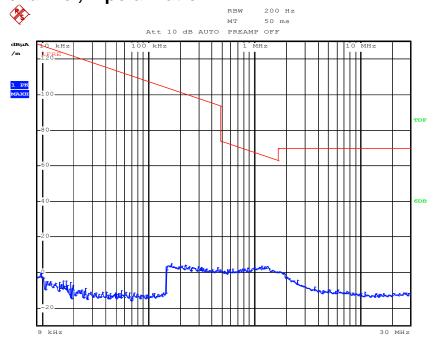


Date: 5.JUN.2014 09:07:16

Products

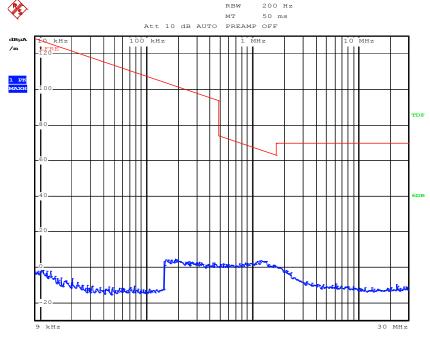


# Low channel, Z polarization:



Date: 5.JUN.2014 09:09:10

# Middle channel, X polarization:

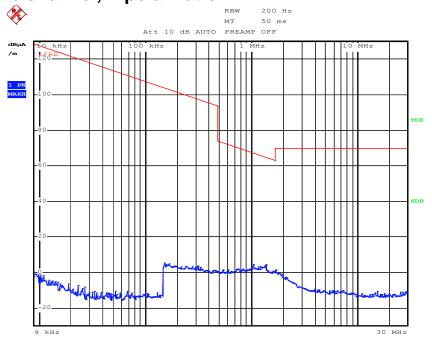


Date: 5.JUN.2014 09:11:06

Products

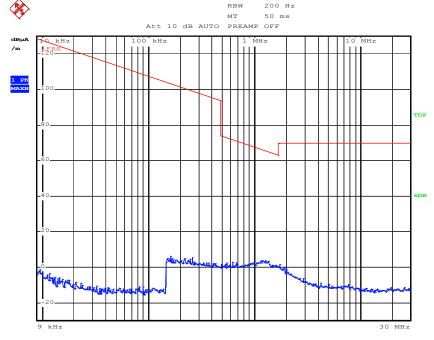


# Middle channel, Y polarization:



Date: 5.JUN.2014 09:13:03

# Middle channel, Z polarization:

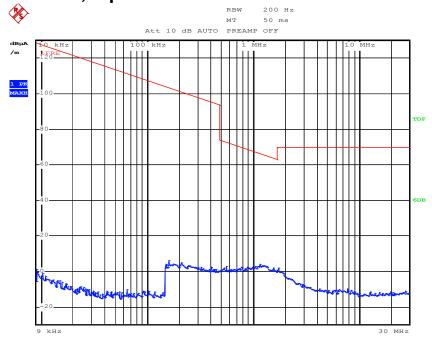


Date: 5.JUN.2014 09:14:57

Products

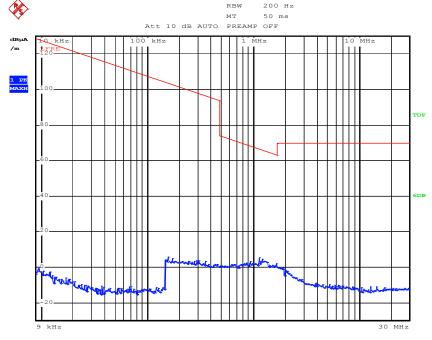


# High channel, X polarization:



Date: 5.JUN.2014 09:16:58

# High channel, Y polarization:



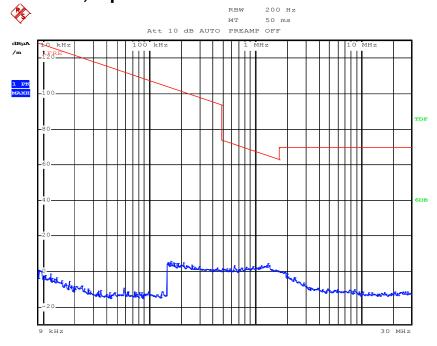
Date: 5.JUN.2014 09:19:00



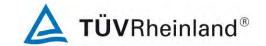
**Products** 



# High channel, Z polarization:



Date: 5.JUN.2014 09:21:02



**Products** 

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

Job No.: PZ #430

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Tablet

Mode: TX 2402MHz

Model: NS-15AT10

Manufacturer: Keen High

Note:

Bluetooth 4.0

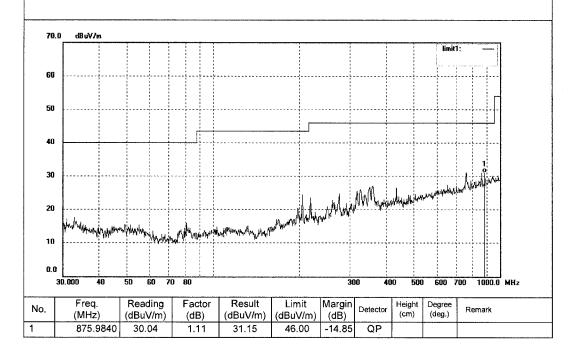
Polarization: Horizontal

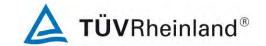
Power Source: AC 120V/60Hz

Date: 2014/06/07

Time:

Engineer Signature: PEI





**Products** 

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Job No.: PZ #431

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Tablet

Mode: TX 2402MHz

Model: NS-15AT10

Manufacturer: Keen High

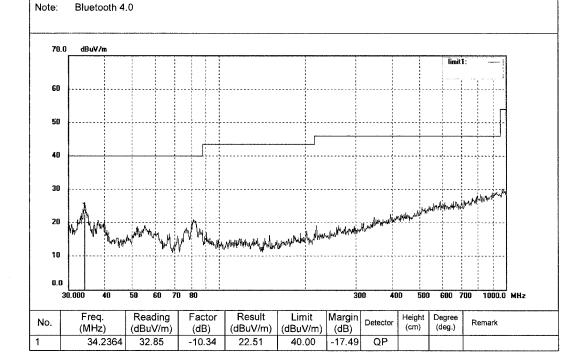
Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 2014/06/07

Time:

Engineer Signature: PEI





**Products** 

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Job No.: PZ #433 Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

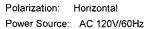
EUT: Tablet

Mode: TX 2440MHz

Model: NS-15AT10

Manufacturer: Keen High

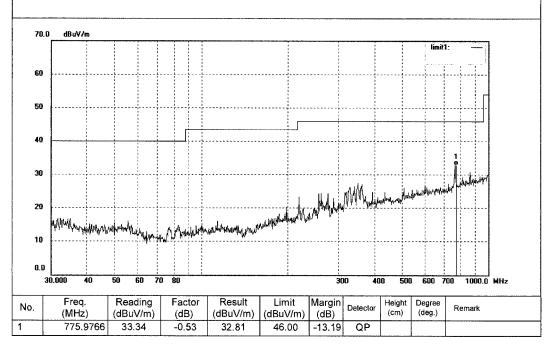
Note: Bluetooth 4.0

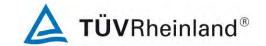


Date: 2014/06/07

Time:

Engineer Signature: PEI





**Products** 

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Job No.: PZ #432

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Tablet

Mode: TX 2440MHz

Model: NS-15AT10

Manufacturer: Keen High
Note: Bluetooth 4,0

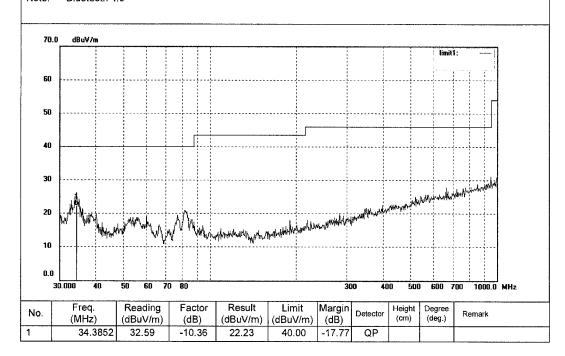
Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 2014/06/07

Time:

Engineer Signature: PEI





**Products** 

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

Job No.: PZ #434
Standard: FCC Class B 3M Radiated

Test item: Radiation Test

- restriction: readilution rest

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

EUT: Tablet

Mode: TX 2480MHz

Model: NS-15AT10

Manufacturer: Keen High

Discussion 4 A A

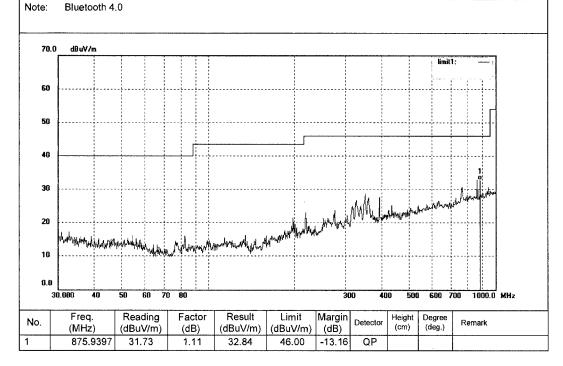
Polarization: Horizontal

Power Source: AC 120V/60Hz

Date: 2014/06/07

Time:

Engineer Signature: PEI





**Products** 

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Job No.: PZ #435

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Tablet

Mode: TX 2480MHz

Model: NS-15AT10

Manufacturer: Keen High

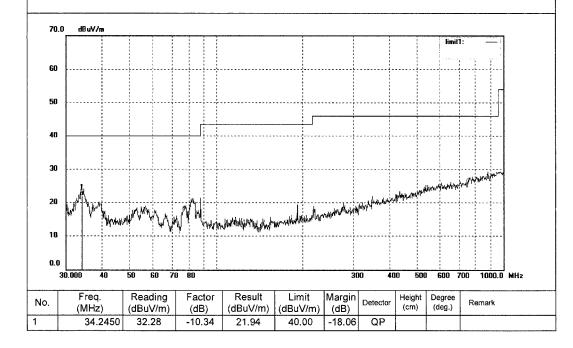
Note: Bluetooth 4.0

Polarization: Vertical
Power Source: AC 120V/60Hz

Date: 2014/06/07

Time:

Engineer Signature: PEI





**Products** 

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**ACCURATE TECHNOLOGY CO., LTD.** 

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Job No.: PZ #180

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Tablet

Mode: TX 2402MHz

Model: NS-15AT10

Manufacturer: Keen High

Note: Bluetooth 4.0

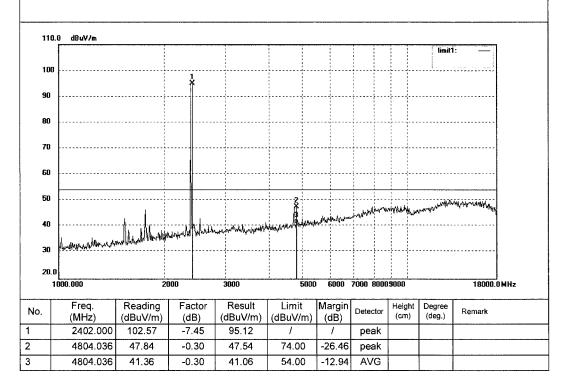
Polarization: Horizontal

Power Source: AC 120V/60Hz

Date: 14/05/29/

Time:

Engineer Signature: PEI





**Products** 

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## ACCURATE TECHNOLOGY CO., LTD.

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Job No.: PZ #181

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Tablet
Mode: TX 2402MHz
Model: NS.15AT10

Model: NS-15AT10 Manufacturer: Keen High Polarization: Vertical

Power Source: AC 120V/60Hz

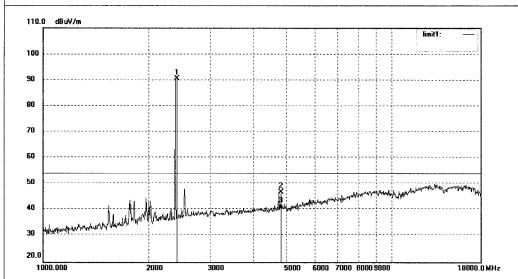
Date: 14/05/29/

Time:

Engineer Signature: PEI

Distance:

Note: Bluetooth 4.0



	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
	1	2402.000	98.05	-7.45	90.60	1	1	peak			
Г	2	4804.025	47.18	-0.30	46.88	74.00	-27.12	peak			
	3	4804.025	40.58	-0.30	40.28	54.00	-13.72	AVG			



**Products** 

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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: Tablet Mode: TX 2440MHz NS-15AT10 Model: Manufacturer: Keen High

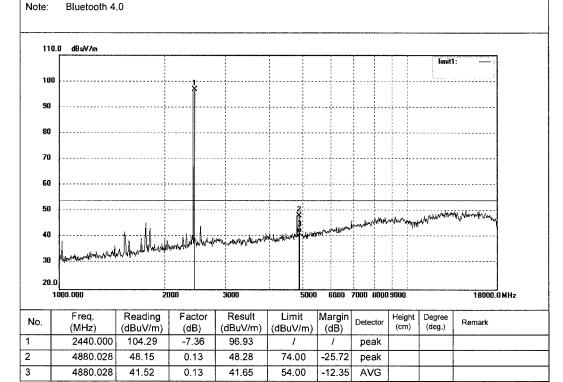
Bluetooth 4.0

Power Source: AC 120V/60Hz

Date: 14/05/29/

Time:

Engineer Signature: PEI





**Products** 

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

Job No.: PZ #185

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Tablet Mode: TX 2440MHz NS-15AT10 Model: Manufacturer: Keen High

Bluetooth 4.0

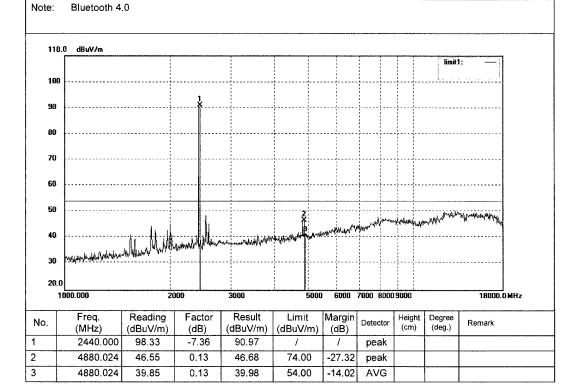
Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 14/05/29/

Time:

Engineer Signature: PEI





**Products** 

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## **ACCURATE TECHNOLOGY CO., LTD.**

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

PZ #187

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Tablet Mode: TX 2480MHz NS-15AT10 Model: Manufacturer: Keen High

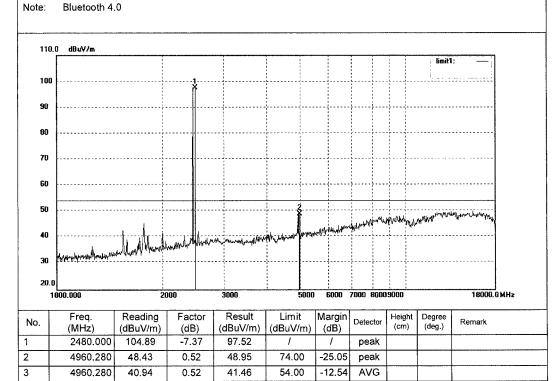
Bluetooth 4.0

Polarization: Horizontal Power Source: AC 120V/60Hz

Date: 14/05/29/

Time:

Engineer Signature: PEI





**Products** 

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**ACCURATE TECHNOLOGY CO., LTD.** 

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

Job No.: PZ #186

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Tablet

Mode: TX 2480MHz

Model: NS-15AT10

Manufacturer: Keen High

Note: Bluetooth 4.0

3

4960.270

40.58

0.52

41.10

Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 14/05/29/

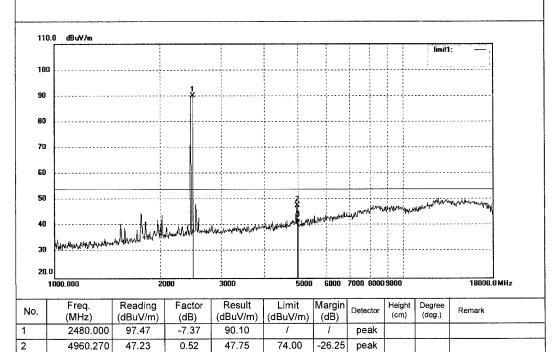
Time:

Engineer Signature: PEI

Distance:

AVG

-12.90



54.00



**Products** 

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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.: PZ #447

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Tablet

Mode: TX 2402MHz

Model: NS-15AT10

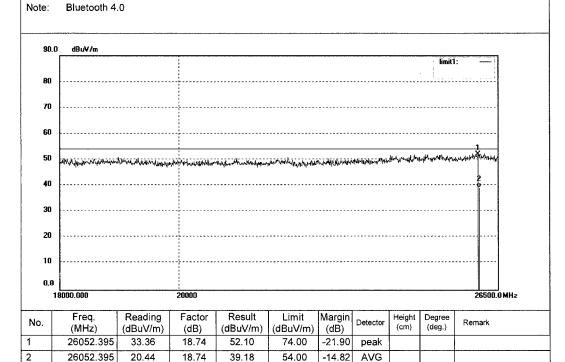
Manufacturer: Keen High

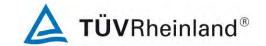
Polarization: Horizontal
Power Source: AC 120V/60Hz

Date: 2014/06/07

Time:

Engineer Signature: PEI





**Products** 

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Test Report No.



ACCURATE TECHNOLOGY CO., LTD.

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

Job No.: PZ #448

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Tablet

TX 2402MHz Mode:

NS-15AT10 Model: Manufacturer: Keen High

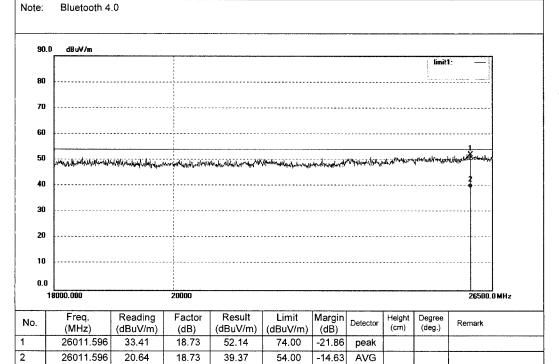
Bluetooth 4.0

Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 2014/06/07 Time:

Engineer Signature: PEI





**Products** 

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# ACCURATE TECHNOLOGY CO., LTD.

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

Job No.: PZ #450

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Tablet Mode: TX 2440MHz Model: NS-15AT10

Manufacturer: Keen High

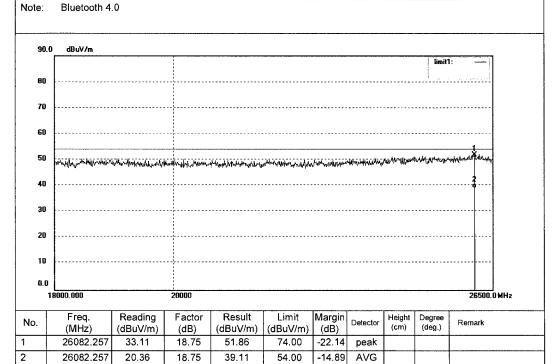
Bluetooth 4.0

Polarization: Horizontal Power Source: AC 120V/60Hz

Date: 2014/06/07

Time:

Engineer Signature: PEI





**Products** 

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

Job No.: PZ #449

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: Tablet

Mode: TX 2440MHz

Model: NS-15AT10

Manufacturer: Keen High

Bluetooth 4.0

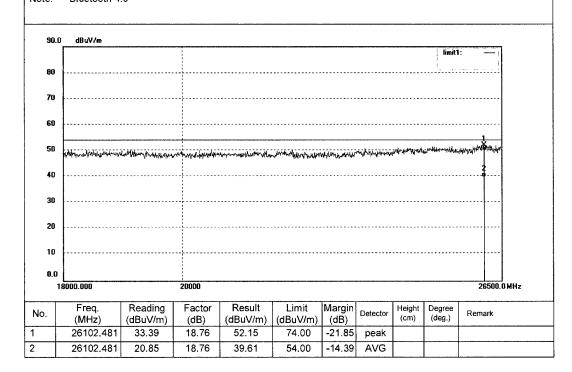
Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 2014/06/07

Time:

Engineer Signature: PEI





**Products** 

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

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

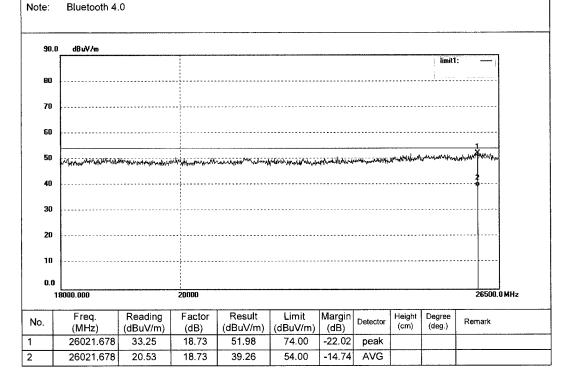
Temp.( C)/Hum.(%) 23 C / 48 %

EUT: Tablet TX 2480MHz Mode: Model: NS-15AT10 Manufacturer: Keen High

Polarization: Horizontal Power Source: AC 120V/60Hz

Date: 2014/06/07 Time:

Engineer Signature: PEI





**Products** 

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

Standard: FCC Class B 3M Radiated

20.71

18.74

Test item: Radiation Test

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

EUT: Tablet Mode: TX 2480MHz NS-15AT10

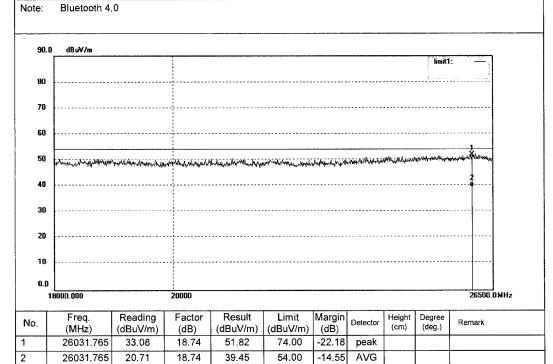
Manufacturer: Keen High

Polarization: Vertical

Power Source: AC 120V/60Hz Date: 2014/06/07

Time:

Engineer Signature: PEI





**Products** 

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# Test Plot of Frequency Band Edge of Bluetooth LE mode



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Job No.: PZ #183 Standard: FCC (Band Edge)

Test item: Radiation Test
Temp.( C)/Hum.(%) 23 C / 48 %

EUT: Tablet

Model: TX 2402MHz Model: NS-15AT10 Manufacturer: Keen High Polarization: Horizontal
Power Source: AC 120V/60Hz

Date: 14/05/29/

Time:

Engineer Signature: PEI

Distance:

Note: Bluetooth 4.0

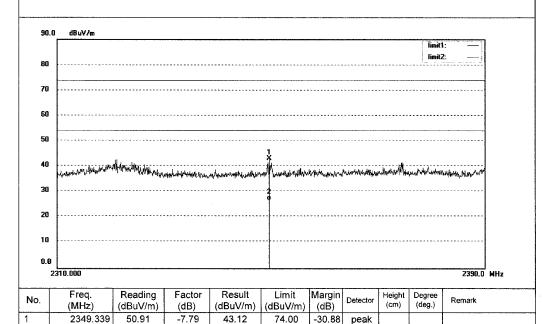
2349.339

2

34.39

-7.79

26.60



54.00

-27.40

AVG



**Products** 

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Test Report No.

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**ATO** 8

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Job No.: PZ #182

Standard: FCC (Band Edge)
Test item: Radiation Test

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

Temp.( C)/Hum.(%) 23 C / 48 %
EUT: Tablet

Mode: TX 2402MHz
Model: NS-15AT10
Manufacturer: Keen High

Note:

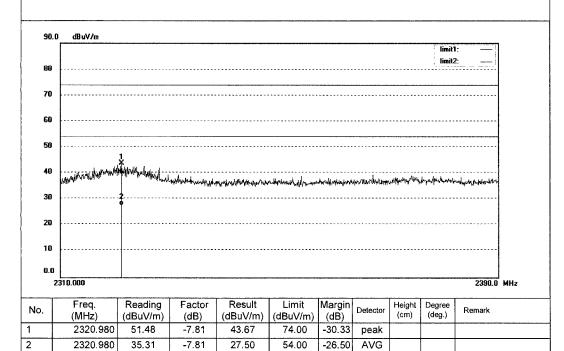
Bluetooth 4.0

Polarization: Vertical
Power Source: AC 120V/60Hz

Date: 14/05/29/

Time:

Engineer Signature: PEI





**Products** 

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2

2483.500

48.47

-7.37

41.10

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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.: PZ #188
Standard: FCC (Band Edge)
Test item: Radiation Test

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

EUT: Tablet

Mode: TX 2480MHz

Model: NS-15AT10

Manufacturer: Keen High

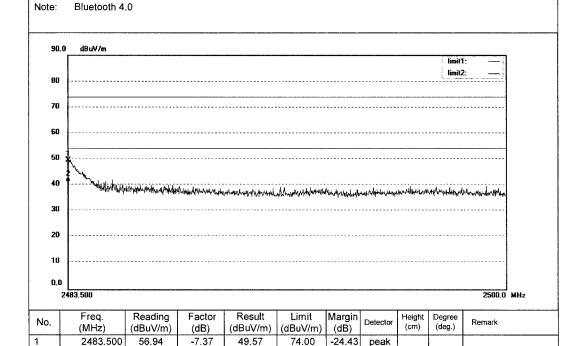
Polarization: Horizontal
Power Source: AC 120V/60Hz

Date: 14/05/29/

Time:

Engineer Signature: PEI

Distance:



54.00

-12.90

AVG



**Products** 

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# ACCURATE TECHNOLOGY CO., LTD.

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

Standard: FCC (Band Edge)

Test item: Radiation Test

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

EUT: Tablet

2

2483.500

45.17

-7.37

37.80

TX 2480MHz Mode: NS-15AT10 Model:

Manufacturer: Keen High

Bluetooth 4.0

Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 14/05/29/

Time:

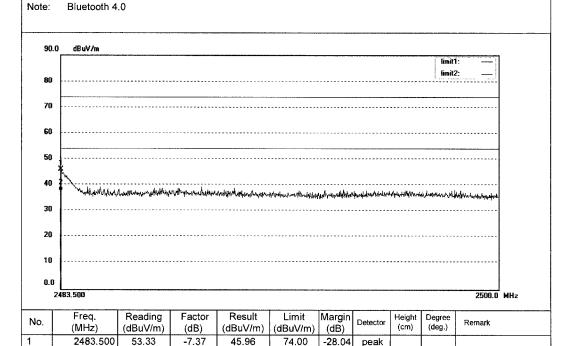
Engineer Signature: PEI

Distance:

peak

AVG

-16.20



54.00

# **TÜV**Rheinland®

# **Produkte**

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# **5.1.8 Frequency Separation**

**RESULT: Pass** 

Date of testing 2014-05-29

Test standard FCC part 15.247(a)(1)

RSS-210 A8.1(b)

Basic standard ANSI C63.4: 2003

Limit ≥ 25kHz or two-thirds of 20dB bandwidth,

whichever is greater

Kind of test site : Shield room

**Test setup** 

Low/ Middle/ High

Test Channel : Operation Mode : Ambient temperature : Relative humidity : A.1.a **25**℃ 52% Atmospheric pressure : 101kPa

# **Table 14: Test result of Frequency Separation**

Channel	Channel Frequency (MHz)	Measured Channel Separation (MHz)	Limit (kHz)	Result
Low Channel	2402	1.002	≥ 25kHz or two- thirds of 20dB	Pass
Adjacency Channel	2403	1.002	bandwidth	1 433
Mid Channel	2441	1.002	≥ 25kHz or two- thirds of 20dB	Pass
Adjacency Channel	2442	1.002	bandwidth	F488
High Channel	2479	1.002	≥ 25kHz or two- thirds of 20dB	Daga
Adjacency Channel	2480	1.002	bandwidth	Pass



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# 5.1.9 Number of hopping frequency

**RESULT: Pass** 

2014-05-29 Date of testing

Test standard FCC part 15.247(a)(1)(iii)

RSS-210 A8.1(d)

Basic standard : ANSI C63.4: 2003

Limits ≥ 15 non-overlapping channels

Kind of test site Shield room

**Test setup** 

Low/ Middle/ High

Experation Mode : Ambient temperature : Relative humidity : Atmospheric pressure : A.1.a **25**℃ 52% Atmospheric pressure : 101kPa

# **Table 15: Test result of Number of hopping frequency**

Frequency Range	Measured Quantity of Hopping Channel	Limit	Result
2402 to 2480MHz	79	≥15	Pass



**Products** 

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# **5.1.10 Time of Occupancy**

**RESULT:** Pass

Date of testing 2014-05-29

Test standard FCC part 15.247(a)(1)(iii)

RSS-210 A8.1(d)

Basic standard ANSI C63.4: 2003

Limits 0.4s

Kind of test site Shield room

**Test setup** 

Test Channel Low/ Middle/ High

Operation Mode : Ambient temperature : A.1.a **25**℃ Relative humidity 52% Atmospheric pressure : 101kPa

# **Table 16: Test result of Time of Occupancy**

Mode	Packet Type	Channel Frequency (MHz)	Packet Duration [ms]	Number of Hops per Channel	Dwell Time (ms)	Limit [ms]
		2402	0.44	258	113.52	400
	DH1	2441	0.44	257	113.08	400
		2480	0.44	260	114.40	400
		2402	1.72	149	256.28	400
BDR	DH3	2441	1.72	141	242.52	400
		2480	1.72	160	275.20	400
	DH5	2402	3.00	111	333	400
		2441	3.00	114	342	400
		2480	3.00	100	300	400
		2402	0.45	264	118.80	400
	DH1	2441	0.44	259	113.96	400
		2480	0.45	254	114.30	400
		2402	1.72	150	258.00	400
EDR	DH3	2441	1.72	150	258.00	400
		2480	1.71	141	241.11	400
		2402	3.00	102	306	400
	DH5	2441	3.00	106	318	400
		2480	3.00	106	318	400



**Products** 

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#### 5.1.11 Conducted emissions

**RESULT: Pass** 

Date of testing 2014-05-27

Test standard FCC Part 15.207

RSS-210 Clause 2.6

Basic standard ANSI C63.4: 2003 Frequency range 0.15 - 30MHzLimits FCC Part 15.207

Table 4 of RSS-Gen

Kind of test site : Shield room

**Test setup** 

Input Voltage AC 120V, 60Hz

Input Voltage :
Operation Mode :

Earthing Not Connected

Ambient temperature : **25**℃ Relative humidity 52% Atmospheric pressure : 101kPa

For details refer to following test plot.



**Products** 

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#### ACCURATE TECHNOLOGY CO., LTD

#### CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: Tablet M/N:NS-15AT10

Manufacturer: Keen High
Operating Condition: On with Bluetooth 1#Shielding Room Test Site:

Operator: LAN
Test Specification: L 120V/60Hz
Comment: Mains port
Start of Test: 5/27/2014 / 10:05:22AM

Start of Test:

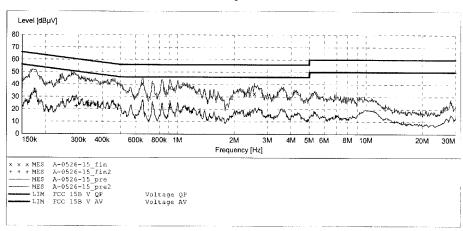
SCAN TABLE: "V 150K-30MHz fin"
Short Description: \_\_SUB\_STD\_VTERM2 1.70
Start Stop Step Detector Meas.

Start Stop Step Frequency Frequency Width 150.0 kHz 30.0 MHz 4.5 kHz TF Transducer

Bandw. Time

QuasiPeak 1.0 s 9 kHz NSLK8126 2008

Average



#### MEASUREMENT RESULT: "A-0526-15 fin"

5/27/2014 10:	15AM						
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
MHz	dΒμV	dB	dΒμV	dB			
			·				
0.651775	40.60	10.8	56	15.4	OP	L1	GND
0.911443	37.70	10.8	56	18.3	OP	L1	GND
2.552862	32.70	11.0	56	23.3	ÕP	L1	GND
					~-		

#### MEASUREMENT RESULT: "A-0526-15 fin2"

5/27/2014	10:15AM						
Frequen	cy Level	Transd	Limit	Margin	Detector	Line	PE
M	Hz dBuV	dB	dBuV	dB			
	•						
0.1738	76 34.00	10.5	55	20.8	AV	L1	GND
0.2921	60 22.40	10.6	51	28.1	AV	L1	GND
0.9114	43 21.10	10.8	46	24.9	AV	T.1	GND
					•••		



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#### ACCURATE TECHNOLOGY CO., LTD

#### CONDUCTED EMISSION STANDARD FCC PART 15 B

Tablet M/N:NS-15AT10

Manufacturer: Keen High
Operating Condition: On with Bluetooth
Test Site: 1#Shielding Room

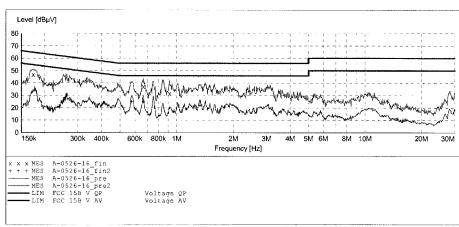
Operator: LAN Test Specification: N 120V/60Hz
Comment: Mains port
Start of Test: 5/27/2014 / 10:16:01AM

SCAN TABLE: "V 150K-30MHz fin"
Short Description: Start Stop Step Detector Meas.

Start Stop Step
Frequency Frequency Width
150.0 kHz 30.0 MHz 4.5 kHz Detector Meas. IF Time Band Transducer Bandw.

QuasiPeak 1.0 s 9 kHz NSLK8126 2008

Average



# MEASUREMENT RESULT: "A-0526-16\_fin"

5/27/2014	10:28AM						
Frequenc	y Level	Transd	Limit	Margin	Detector	Line	PE
MH	z dBµV	dВ	dΒμV	dB			
0.17318	3 46.80	10.5	65	18.0	QP	N	GND
0.66491	5 37.20	10.8	56	18.8	QP	N	GND
0.91508	9 31.50	10.8	56	24.5	QP	N	GND

# MEASUREMENT RESULT: "A-0526-16 fin2"

5/27/2014 1	0:28AM						
Frequency	Level	Transd	Limit	Margin	Detector	Line	PΕ
MHz	dBµV	dB	dΒμV	dB			
0.177381	34.00	10.5	55	20.6	AV	N	GND
0.575907	24.90	10.7	46	21.1	AV	N	GND
0.664915	24.80	10.8	46	21.2	AV	N	GND
1.326473	22.00	10.9	46	24.0	AV	N	GND



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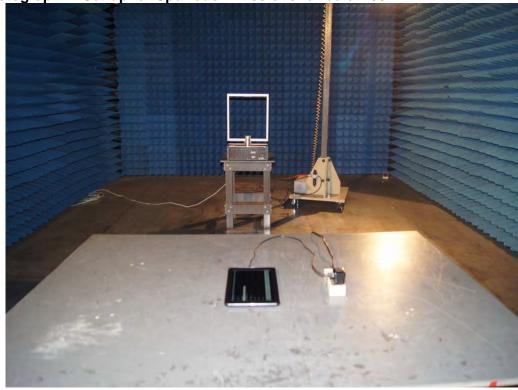
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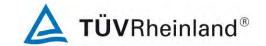
# 6. Photographs of the Test Set-Up

Photograph 1: Set-up for Conducted Emissions









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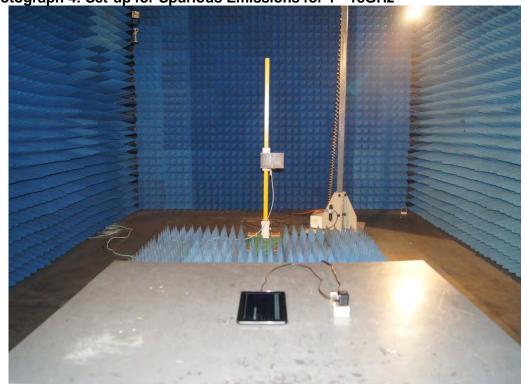
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Photograph 3: Set-up for Spurious Emissions for 30 - 1000MHz









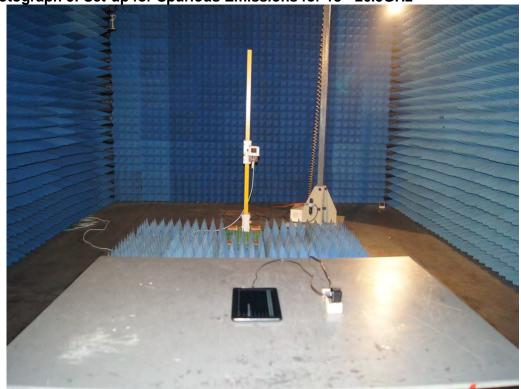
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Photograph 5: Set-up for Spurious Emissions for 18 - 26.5GHz





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