

# **FCC REPORT**

Applicant: SKANNEX AS

Address of Applicant: Gaustadalleen 21, Oslo, 0349, Norway

**Equipment Under Test (EUT)** 

Product Name: Tablet PC

Model No.: RL-SM02BD

Additional Model No.: N/A

Trade mark: N/A

FCC ID: 2AD7E-RLSM02BD

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: Jan. 27, 2015

**Date of Test:** Jan. 28 – Feb. 25, 2015

**Date of report issued:** Feb. 26, 2015

Test Result: PASS \*

\* In the configuration tested, the EUT complied with the standards specified above.



# 2 Version

| Version No. | Date          | Description |
|-------------|---------------|-------------|
| 00          | Feb. 26, 2015 | Original    |
|             |               |             |
|             |               |             |
|             |               |             |
|             |               |             |

Prepared by: Date: Feb. 26, 2015

Report Clerk

Reviewed by: Date: Feb. 26, 2015

EMC Manager

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# 4. Test Summary

| Test Item                        | Section in CFR 47 | Result |
|----------------------------------|-------------------|--------|
| Antenna requirement              | 15.203/15.247 (c) | Pass   |
| AC Power Line Conducted Emission | 15.207            | Pass   |
| Conducted Peak Output Power      | 15.247 (b)(3)     | Pass   |
| 6dB Emission Bandwidth           | 15.247 (a)(2)     | Pass   |
| Power Spectral Density           | 15.247 (e)        | Pass   |
| Band Edge                        | 15.247(d)         | Pass   |
| Spurious Emission                | 15.205/15.209     | Pass   |

Pass: The EUT complies with the essential requirements in the standard.

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## 5. General Information

# **5.1 Client Information**

| Applicant:               | SKANNEX AS                           |
|--------------------------|--------------------------------------|
| Address of Applicant:    | Gaustadalleen 21, Oslo, 0349, Norway |
| Manufacturer:            | SKANNEX AS                           |
| Address of Manufacturer: | Gaustadalleen 21, Oslo, 0349, Norway |

# 5.2 General Description of E.U.T.

| Product Name:         | Tablet PC                           |
|-----------------------|-------------------------------------|
| Model No.:            | RL-SM02BD                           |
| Additional Model No.: | N/A                                 |
| Trade mark:           | N/A                                 |
| Operation Frequency:  | 2402MHz~2480MHz                     |
| Channel numbers:      | 40                                  |
| Channel separation:   | 2MHz                                |
| Modulation type:      | GFSK                                |
| Antenna Type:         | Internal Antenna                    |
| Antenna gain:         | 2dBi                                |
| AC adapter:           |                                     |
| Power supply:         | Rechargeable Li-ion Battery DC 3.7V |

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| Operation Frequency each of channel for GFSK |           |         |           |         |           |         |           |
|--|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel                                      | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 0  | 2402MHz   | 10      | 2422MHz   | 20      | 2442MHz   | 30      | 2462MHz   |
| 1  | 2404MHz   | 11      | 2424MHz   | 21      | 2444MHz   | 31      | 2464MHz   |
| 2  | 2406MHz   | 12      | 2426MHz   | 22      | 2446MHz   | 32      | 2466MHz   |
| 3  | 2408MHz   | 13      | 2428MHz   | 23      | 2448MHz   | 33      | 2468MHz   |
| 4  | 2410MHz   | 14      | 2430MHz   | 24      | 2450MHz   | 34      | 2470MHz   |
| 5  | 2412MHz   | 15      | 2432MHz   | 25      | 2452MHz   | 35      | 2472MHz   |
| 6  | 2414MHz   | 16      | 2434MHz   | 26      | 2454MHz   | 36      | 2474MHz   |
| 7  | 2416MHz   | 17      | 2436MHz   | 27      | 2456MHz   | 37      | 2476MHz   |
| 8  | 2418MHz   | 18      | 2438MHz   | 28      | 2458MHz   | 38      | 2478MHz   |
| 9  | 2420MHz   | 19      | 2440MHz   | 29      | 2460MHz   | 39      | 2480MHz   |
| Remark: Channel 0, 20 &39 selected for GFSK  |           |         |           |         |           |         |           |

#### Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

| Channel             | Frequency |  |  |
|---------------------|-----------|--|--|
| The lowest channel  | 2402MHz   |  |  |
| The middle channel  | 2442MHz   |  |  |
| The Highest channel | 2480MHz   |  |  |

# 5.3 Measurement uncertainty

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

| No. | Item                         | Uncertainty |
|-----|------------------------------|-------------|
| 1   | Conducted Emission           | ±3.28dB     |
| 2   | RF power,conducted           | ±0.12dB     |
| 3   | Spurious emissions,conducted | ±0.11dB     |
| 4   | All emissions,radiated(<1G)  | ±4.88dB     |
| 5   | All emissions,radiated(>1G)  | ±4.88dB     |
| 6   | Temperature                  | ±0.5°C      |
| 7   | Humidity                     | ±2%         |

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#### 5.4 Test environment and mode

| Operating Environment:   |           |  |  |  |  |
|--|-----------|--|--|--|--|
| Temperature:   | 24.0 °C   |  |  |  |  |
| Humidity:  | 54 % RH   |  |  |  |  |
| Atmospheric Pressure:  | 1010 mbar |  |  |  |  |
| Test mode:   |           |  |  |  |  |
| Operation mode Keep the EUT in continuous transmitting with modulation |           |  |  |  |  |
| Rep the Let in continuous transmitting with modulation                 |           |  |  |  |  |

The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

## 5.5 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

#### ● FCC - Registration No.: 572331

Shenzhen TCT Testing Technology Co., Ltd., Shenzhen EMC Laboratory: Shenzhen Tongce Testing Lab

The 3m Semi-anechoic chamber has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

#### IC - Registration No.: 10668A-1

The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

#### CNAS - Registration No.: CNAS L6165

Shenzhen TCT Testing Technology Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6165.

# 5.6 Laboratory Location

Shenzhen Tongce Testing Lab

Address: 1F, Leinuo Watch Building, Fuyong Town, Baoan Dist, Shenzhen, China

Tel: 13410377511

Fax: --

# 5.7 Description of Support Units

| Manufacturer | Description | Model     | S/N | FCC ID/DoC |
|--------------|-------------|-----------|-----|------------|
| FICO         | Adapter     | JD-050200 | N/A | N/A        |
| Edifier      | Earphone    | H275P     | N/A | N/A        |
|              |             |           |     |            |

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# 5.8 Test Instruments list

| Radia | Radiated Emission: |                                    |            |              |                         |                             |  |  |
|-------|--------------------|------------------------------------|------------|--------------|-------------------------|-----------------------------|--|--|
| Item  | Test Equipment     | Manufacturer                       | Model No.  | Serial No.   | Cal. Date<br>(mm-dd-yy) | Cal. Due date<br>(mm-dd-yy) |  |  |
| 1     | ESPI Test Receiver | ROHDE&SCHWARZ                      | ESVD       | 100008       | Sep.17, 2014            | Sep.16, 2015                |  |  |
| 2     | Spectrum Analyzer  | ROHDE&SCHWARZ                      | FSEM       | 848597/001   | Sep.17, 2014            | Sep.16, 2015                |  |  |
| 3     | Spectrum Analyzer  | ROHDE&SCHWARZ                      | FSU3       | 1166.1660.03 | Sep.17, 2014            | Sep.16, 2015                |  |  |
| 4     | Pre-amplifier      | EM Electronics Corporation CO.,LTD | EM30265    | 07032613     | Sep.17, 2014            | Sep.16, 2015                |  |  |
| 5     | Pre-amplifier      | HP                                 | 8447D      | 2727A05017   | Sep.17, 2014            | Sep.16, 2015                |  |  |
| 6     | Loop antenna       | ZHINAN                             | ZN30900A   | 12024        | Dec.15, 2014            | Dec.14, 2015                |  |  |
| 7     | Broadband Antenna  | Schwarzbeck                        | VULB9163   | 340          | Sep.17, 2014            | Sep.16, 2015                |  |  |
| 8     | Horn Antenna       | Schwarzbeck                        | BBHA 9120D | 631          | Sep.17, 2014            | Sep.16, 2015                |  |  |
| 9     | Loop antenna       | ZHINAN                             | ZN30900A   | 12024        | Dec.15, 2014            | Dec.14, 2015                |  |  |
| 10    | Coax cable         | тст                                | N/A        | N/A          | Sep.14, 2014            | Sep.15, 2015                |  |  |
| 11    | Coax cable         | тст                                | N/A        | N/A          | Sep.14, 2014            | Sep.15, 2015                |  |  |
| 12    | Coax cable         | тст                                | N/A        | N/A          | Sep.14, 2014            | Sep.15, 2015                |  |  |
| 13    | Coax cable         | тст                                | N/A        | N/A          | Sep.14, 2014            | Sep.15, 2015                |  |  |
| 14    | EMI Test Software  | Shurple Technology                 | EZ-EMC     | N/A          | N/A                     | N/A                         |  |  |

| Conc | Conducted Emission: |                    |           |             |                         |                             |  |  |
|------|---------------------|--------------------|-----------|-------------|-------------------------|-----------------------------|--|--|
| Item | Test Equipment      | Manufacturer       | Model No. | Serial No.  | Cal. Date<br>(mm-dd-yy) | Cal. Due date<br>(mm-dd-yy) |  |  |
| 1    | EMI Test Receiver   | R&S                | ESCS30    | 100139      | Sep.17, 2014            | Sep.16, 2015                |  |  |
| 2    | LISN-1              | AFJ                | LS16C     | 16010947251 | Sep.17, 2014            | Sep.16, 2015                |  |  |
| 3    | LISN-2              | Schwarzbeck        | NSLK 8126 | 8126453     | Sep.17, 2014            | Sep.16, 2015                |  |  |
| 4    | Coax cable          | тст                | N/A       | 164080      | Sep.17, 2014            | Sep.16, 2015                |  |  |
| 5    | EMI Test Software   | Shurple Technology | EZ-EMC    | N/A         | N/A                     | N/A                         |  |  |

| Conducted method test: |                      |               |           |            |                         |                             |  |  |
|------------------------|----------------------|---------------|-----------|------------|-------------------------|-----------------------------|--|--|
| Item                   | Test Equipment       | Manufacturer  | Model No. | Serial No. | Cal. Date<br>(mm-dd-yy) | Cal. Due date<br>(mm-dd-yy) |  |  |
| 1                      | Spectrum Analyzer    | ROHDE&SCHWARZ | FSU3      | 200054     | Sep.17, 2014            | Sep.16, 2015                |  |  |
| 2                      | Spectrum Analyzer    | Agilent       | N9020A    | MY49100060 | Oct. 22, 2014           | Oct. 23, 2015               |  |  |
| 3                      | Pulse Power<br>Senor | Anritsu       | MA2411B   | 0917070    | Dec. 12 2014            | Dec. 11, 2015               |  |  |
| 4                      | Power Meter          | Anritsu       | ML2495A   | 1005002    | Dec. 12 2014            | Dec. 11, 2015               |  |  |

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### 6. Test results and Measurement Data

## 6.1 Antenna requirement:

Standard requirement: FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

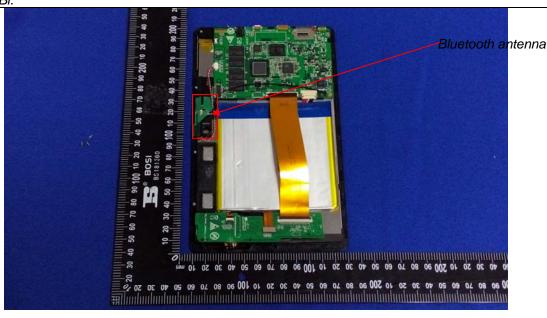
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

#### **E.U.T Antenna:**

The antenna is an internal antenna which cannot replace by end-user, the best case gain of the antenna is 2 dBi.



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# **6.2 Conducted Emission**

| Test Requirement:  Test Method:  ANSI C63.4: 2003  Test Frequency Range:  Class / Severity:  Class B  Receiver setup:  RBW=9 kHz, VBW=30 kHz  Limit:  Frequency range (MHz)  Quasi-peak Average  0.15-0.5 66 to 56* 56 to 46* 0.5-5 060 50  * Decreases with the logarithm of the frequency.  Test procedure  1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.), which provides a 500hm/50uH coupling impedance for the measuring equipment.  2. The peripheral devices are also connected to the main power through a LISN that provides a 500hm/50uH coupling impedance with 500hm termination. (Please refer to the block diagram of the test setup and photographs).  3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement.  Test setup:  Reference Plane  Reference Plane  Test linstruments:  Refer to section 5.7 for details  Test mode:  Refer to section 5.4 for details  Refer to section 5.4 for details                 | Toot Doggingment      | FOC Dowld C Cooking 45 207  | ,  |  |  |  |  |  |  |  |
|--|-----------------------|---|--|--|--|--|--|--|--|--|
| Test Frequency Range:  Class / Severity:  Class B  Receiver setup:  RBW=9 kHz, VBW=30 kHz  Limit:  Frequency range (MHz)  Quasi-peak Average  0.15-0.5 66 to 56° 56 to 46° 0.5-5 56 46 46 5-3-0 60 50  * Decreases with the logarithm of the frequency.  Test procedure  1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.), which provides a 500hm/50uH coupling impedance for the measuring equipment.  2. The peripheral devices are also connected to the main power through a LISN that provides a 500hm/50uH coupling impedance with 500hm termination. (Please refer to the block diagram of the test setup and photographs).  3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement.  Test setup:  Reference Plane  LISN  AUX  Equipment Under Test  LISN Line Impedence Stabilization Network  Test table/Insulation plane  Test Instruments:  Refer to section 5.7 for details  Test mode:  Refer to section 5.4 for details | Test Requirement:     |   |  |  |  |  |  |  |  |  |
| Class / Severity:  Class B  Receiver setup:  RBW=9 kHz, VBW=30 kHz  Limit:  Frequency range (MHz)  Quasi-peak  Average  0.15-0.5  66 to 56° 56 to 46° 0.5-5  5-30  60 50  * Decreases with the logarithm of the frequency.  1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.), which provides a 500hm/50uH coupling impedance for the measuring equipment.  2. The peripheral devices are also connected to the main power through a LISN that provides a 500hm/50uH coupling impedance with 500hm termination. (Please refer to the block diagram of the test setup and photographs).  3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement.  Test setup:  Reference Plane  LISN 40cm 80cm Filter AC power  EMI Receiver  Reference Plane  LISN Line Impedence Stabilization Network Test table/Insulation plane  Refer to section 5.7 for details  Test mode:  Refer to section 5.4 for details                                    |                       |   |  |  |  |  |  |  |  |  |
| Receiver setup:  RBW=9 kHz, VBW=30 kHz  Limit:  Frequency range (MHz)  Quasi-peak Average 0.15-0.5 66 to 56* 56 to 46* 0.5-5 56 46 5-30 60 50  *Decreases with the logarithm of the frequency.  1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.), which provides a 50ohm/50uH coupling impedance for the measuring equipment.  2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).  3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement.  Test setup:  Reference Plane  LISN  Aux  Eult Equipment Under Test LISN  Limit (dBuV)  Quasi-peak Average 66 to 56* 56 to 46* 66 to 56* 56 to 46* 69 to 50 150 150 150 150 150 150 150 150 150 1  | Test Frequency Range: | 150 kHz to 30 MHz   |  |  |  |  |  |  |  |  |
| Limit:    Frequency range (MHz)  | Class / Severity:     | Class B   |  |  |  |  |  |  |  |  |
| Test procedure    Priequency larige (Nin2)   Quasi-peak   Average  | Receiver setup:       | RBW=9 kHz, VBW=30 kHz   |  |  |  |  |  |  |  |  |
| Test procedure  1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.), which provides a 500hm/50uH coupling impedance for the measuring equipment.  2. The peripheral devices are also connected to the main power through a LISN that provides a 500hm/50uH coupling impedance with 500hm termination. (Please refer to the block diagram of the test setup and photographs).  3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement.  Test setup:  Reference Plane  LISN  Reference Plane  LISN  LENT Equipment Under Test  LENT Line Impedence Stabilization Network  Test table height-0.0m  Test Instruments:  Refer to section 5.7 for details  Test mode:  Refer to section 5.4 for details  | Limit:                | Frequency (ande (MHZ)   |  |  |  |  |  |  |  |  |
| D.5-5   56   46     S-30   60   50     Decreases with the logarithm of the frequency.  1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.), which provides a 500hm/50uH coupling impedance for the measuring equipment.  2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).  3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement.  Test setup:    Reference Plane   LISN  |                       | Quasi-peak Average  |  |  |  |  |  |  |  |  |
| Test procedure  Test procedure  1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.), which provides a 500hm/50uH coupling impedance for the measuring equipment.  2. The peripheral devices are also connected to the main power through a LISN that provides a 500hm/50uH coupling impedance with 500hm termination. (Please refer to the block diagram of the test setup and photographs).  3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement.  Test setup:  Reference Plane  Reference Plane  Reference Plane  LISN  AC power  LUSN  LUSN  LUSN  LUSN  LUSN  LUSN  Receiver  Test lable/Insulation plane  Receiver  Test lable height=0.8im  Refer to section 5.7 for details  Refer to section 5.4 for details  |                       |   |  |  |  |  |  |  |  |  |
| * Decreases with the logarithm of the frequency.  1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.), which provides a 500hm/50uH coupling impedance for the measuring equipment.  2. The peripheral devices are also connected to the main power through a LISN that provides a 500hm/50uH coupling impedance with 500hm termination. (Please refer to the block diagram of the test setup and photographs).  3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement.  Test setup:  Reference Plane  Reference Plane  Reference Plane  Reference Plane  Reference Plane  Regulpment Under Test LISN Line impedence Stabilization Network Test table height-0.8m  Refer to section 5.7 for details  Refer to section 5.4 for details  |                       |   |  |  |  |  |  |  |  |  |
| 1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.), which provides a 500hm/50uH coupling impedance for the measuring equipment.  2. The peripheral devices are also connected to the main power through a LISN that provides a 500hm/50uH coupling impedance with 500hm termination. (Please refer to the block diagram of the test setup and photographs).  3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement.  Test setup:  Reference Plane  Reference Plane  Reference Plane  Remark  E.U.T. Equipment Under Test  LISN Line Impedance Stabilization Network  Test table height-0.8m  Test Instruments:  Refer to section 5.7 for details  Refer to section 5.4 for details   |                       |   |  | 50   |  |  |  |  |  |  |
| LISN 40cm 80cm Filter AC power Equipment E.U.T  Remark: E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m  Test Instruments: Refer to section 5.7 for details  Test mode: Refer to section 5.4 for details   |                       | line impedance stabilizati 50ohm/50uH coupling im 2. The peripheral devices ar a LISN that provides a 50 termination. (Please refer photographs).  3. Both sides of A.C. line are interference. In order to fi positions of equipment ar changed according to AN measurement. | on network (L.I.S.N.), on network (L.I.S.N.), on pedance for the measure also connected to the block diagram of the block diagram of the maximum emissed all of the interface calls (C63.4: 2003 on content of the conte | which provides a uring equipment. e main power through pedance with 50ohm of the test setup and m conducted sion, the relative ables must be |  |  |  |  |  |  |
| Test mode: Refer to section 5.4 for details  | rest setup.           | AUX Filter AC power Equipment E.U.T  Remark EU.T Equipment Under Test LISN: Line Impedence Stabilization Network  |  |  |  |  |  |  |  |  |
| 1001110  | Test Instruments:     | Refer to section 5.7 for details  |  |  |  |  |  |  |  |  |
| Test results: Passed   | Test mode:            | Refer to section 5.4 for details  | :  |  |  |  |  |  |  |  |
|  | Test results:         | Passed  |  |  |  |  |  |  |  |  |

**Measurement Data** 

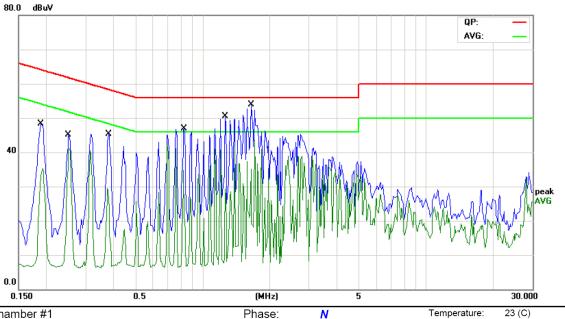
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Humidity:

52 %



#### Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



AC 120V/60Hz

Site Chamber #1

Limit: FCC PART15 Conduction(QP)

EUT: Tablet PC M/N: RL-SM02BD Mode: Tx Mode

Note:

| No. Mk. | Freq.  | Reading<br>Level | Correct<br>Factor | Measure-<br>ment | Limit | Over   |          |         |
|---------|--------|------------------|-------------------|------------------|-------|--------|----------|---------|
|         | MHz    | dBuV             | dB                | dBuV             | dBuV  | dB     | Detector | Comment |
| 1       | 0.1891 | 35.18            | 11.49             | 46.67            | 64.07 | -17.40 | QP       |         |
| 2       | 0.1891 | 23.53            | 11.49             | 35.02            | 54.07 | -19.05 | AVG      |         |
| 3       | 0.2516 | 32.55            | 11.45             | 44.00            | 61.70 | -17.70 | QP       |         |
| 4       | 0.2516 | 24.59            | 11.45             | 36.04            | 51.70 | -15.66 | AVG      |         |
| 5       | 0.3805 | 31.27            | 11.37             | 42.64            | 58.27 | -15.63 | QP       |         |
| 6       | 0.3805 | 22.39            | 11.37             | 33.76            | 48.27 | -14.51 | AVG      |         |
| 7       | 0.8297 | 25.76            | 11.21             | 36.97            | 56.00 | -19.03 | QP       |         |
| 8       | 0.8297 | 4.28             | 11.21             | 15.49            | 46.00 | -30.51 | AVG      |         |
| 9       | 1.2672 | 34.87            | 11.32             | 46.19            | 56.00 | -9.81  | QP       |         |
| 10      | 1.2672 | 11.68            | 11.32             | 23.00            | 46.00 | -23.00 | AVG      |         |
| 11 *    | 1.6461 | 37.22            | 11.51             | 48.73            | 56.00 | -7.27  | QP       |         |
| 12      | 1.6461 | 16.46            | 11.51             | 27.97            | 46.00 | -18.03 | AVG      |         |

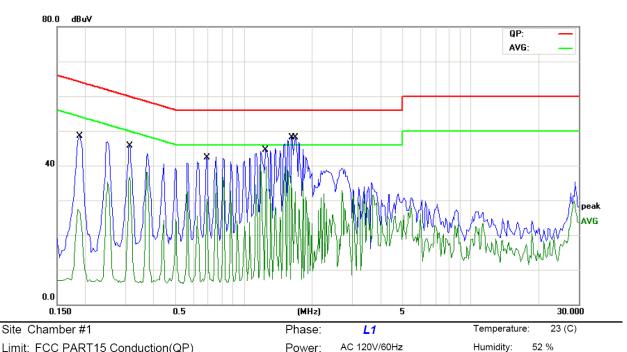
Power:

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#### Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



Limit: FCC PART15 Conduction(QP)

EUT: Tablet PC M/N: RL-SM02BD Mode: Tx Mode

Note:

| No. Mk. | Freq.  | Reading<br>Level | Correct<br>Factor | Measure-<br>ment | Limit | Over   |          |         |
|---------|--------|------------------|-------------------|------------------|-------|--------|----------|---------|
|         | MHz    | dBuV             | dB                | dBuV             | dBuV  | dB     | Detector | Comment |
| 1       | 0.1891 | 35.16            | 11.47             | 46.63            | 64.07 | -17.44 | QP       |         |
| 2       | 0.1891 | 22.75            | 11.47             | 34.22            | 54.07 | -19.85 | AVG      |         |
| 3       | 0.3141 | 32.73            | 11.40             | 44.13            | 59.86 | -15.73 | QP       |         |
| 4       | 0.3141 | 24.11            | 11.40             | 35.51            | 49.86 | -14.35 | AVG      |         |
| 5       | 0.6891 | 29.47            | 11.23             | 40.70            | 56.00 | -15.30 | QP       |         |
| 6       | 0.6891 | 22.66            | 11.23             | 33.89            | 46.00 | -12.11 | AVG      |         |
| 7       | 1.2477 | 30.96            | 11.29             | 42.25            | 56.00 | -13.75 | QP       |         |
| 8       | 1.2477 | 19.11            | 11.29             | 30.40            | 46.00 | -15.60 | AVG      |         |
| 9       | 1.6305 | 33.84            | 11.49             | 45.33            | 56.00 | -10.67 | QP       |         |
| 10 *    | 1.6305 | 23.87            | 11.49             | 35.36            | 46.00 | -10.64 | AVG      |         |
| 11      | 1.6969 | 33.44            | 11.52             | 44.96            | 56.00 | -11.04 | QP       |         |
| 12      | 1.6969 | 19.05            | 11.52             | 30.57            | 46.00 | -15.43 | AVG      |         |
|         |        |                  |                   |                  |       |        |          |         |

Power:

#### Notes:

- 1. An initial pre-scan was performed on the line and neutral terminal of the power line with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + Correct Factor
- 4. \* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

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# **6.3 Conducted Output Power**

| Test Requirement: | FCC Part15 C Section 15.247 (b)(3)  |  |  |  |  |  |
|-------------------|---|--|--|--|--|--|
| Test Method:      | ANSI C63.4:2003 and KDB558074   |  |  |  |  |  |
| Limit:            | 30dBm   |  |  |  |  |  |
| Test setup:       | Power Meter Attenuator  |  |  |  |  |  |
| Test Instruments: | Refer to section 4.7 for details  |  |  |  |  |  |
| Test procedure:   | <ol> <li>The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v03r02.</li> <li>The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Measure the conducted output power and record the results in the test report.</li> </ol> |  |  |  |  |  |
| Test results:     | Passed  |  |  |  |  |  |

#### Measurement Data

| Test CH | Maximum Conducted Output Power (dBm) | Limit(dBm) | Result |
|---------|--------------------------------------|------------|--------|
| Lowest  | 0.64                                 |            |        |
| Middle  | 0.51                                 | 30.00      | Pass   |
| Highest | 0.21                                 |            |        |

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# 6.4 Emission Bandwidth

| Test Requirement: | FCC Part15 C Section 15.247 (a)(2)   |  |  |  |  |  |
|-------------------|--|--|--|--|--|--|
| Test Method:      | ANSI C63.4:2003 and KDB558074  |  |  |  |  |  |
| Limit:            | >500kHz  |  |  |  |  |  |
| Test setup:       | Spectrum Analyzer EUT  |  |  |  |  |  |
| Test Instruments: | Refer to section 5.6 for details   |  |  |  |  |  |
| Test procedure:   | <ol> <li>The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v03r02.</li> <li>The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v03r02.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz.</li> <li>Measure and record the results in the test report.</li> </ol> |  |  |  |  |  |
| Test results:     | Passed   |  |  |  |  |  |

#### Measurement Data

| Test CH | 6dB Emission Bandwidth (KHz) | Limit(kHz) | Result |
|---------|------------------------------|------------|--------|
| Lowest  | 682.69                       |            |        |
| Middle  | 677.88                       | >500       | Pass   |
| Highest | 687.50                       |            |        |

Test plot as follows:

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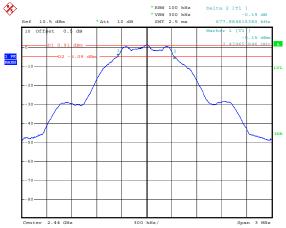






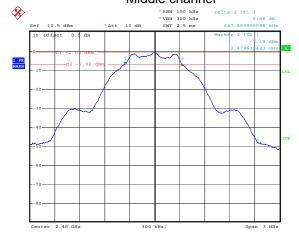
Date: 26.FEB.2015 09:34:51

#### Lowest channel



Date: 26.FEB.2015 09:33:4

## Middle channel



Date: 26.FEB.2015 09:29:36

Highest channel

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# 6.5 Power Spectral Density

| Test Requirement: | FCC Part15 C Section 15.247 (e)  |  |  |  |  |  |
|-------------------|--|--|--|--|--|--|
| Test Method:      | ANSI C63.4:2003 and KDB558074  |  |  |  |  |  |
| Limit:            | The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.   |  |  |  |  |  |
| Test setup:       |  |  |  |  |  |  |
|                   | Spectrum Analyzer EUT  |  |  |  |  |  |
| Test Instruments: | Refer to section 5.6 for details   |  |  |  |  |  |
| Test mode:        | <ol> <li>The testing follows Measurement Procedure 10.2 Method PKPSD of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v03r02</li> <li>The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)</li> <li>Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.</li> <li>Measure and record the results in the test report.</li> </ol> |  |  |  |  |  |
| Test results:     | Passed   |  |  |  |  |  |

#### Measurement Data

| Test CH | Power Spectral Density (dBm) | Limit(dBm) | Result |
|---------|------------------------------|------------|--------|
| Lowest  | -14.88                       |            |        |
| Middle  | -14.68                       | 8.00       | Pass   |
| Highest | -16.21                       |            |        |

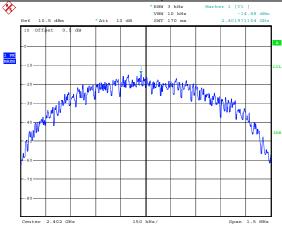
Test plot as follows:

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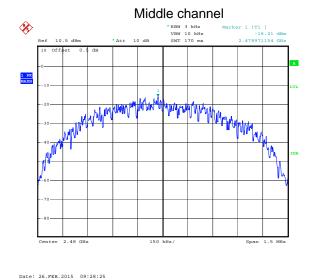




Date: 26.FEB.2015 09:27:08

# 

Date: 26.FEB.2015 09:27:4



Highest channel

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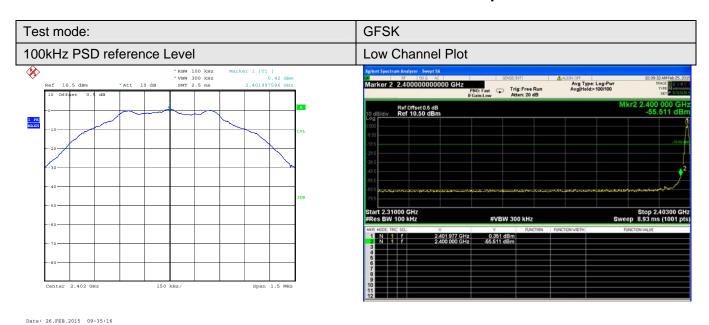
# 6.6 Conducted Band Edges and Spurious Emission Measurement

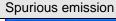
| Test Requirement: | FCC Part15 C Section 15.247 (d)   |  |  |  |  |  |
|-------------------|---|--|--|--|--|--|
| Test Method:      | ANSI C63.4:2003 and KDB558074   |  |  |  |  |  |
| Limit:            | In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).   |  |  |  |  |  |
| Test setup:       | Spectrum Analyzer EUT   |  |  |  |  |  |
| Test Instruments: | Refer to section 4.7 for details  |  |  |  |  |  |
| Test procedure:   | <ol> <li>The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r02.</li> <li>The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).</li> <li>Measure and record the results in the test report.</li> <li>The RF fundamental frequency should be excluded against the limit line in the operating frequency band.</li> </ol> |  |  |  |  |  |
| Test results:     | Passed  |  |  |  |  |  |

Test plot as follows:

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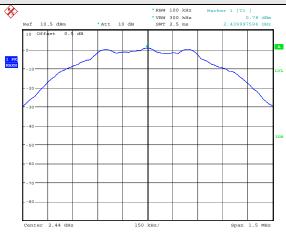










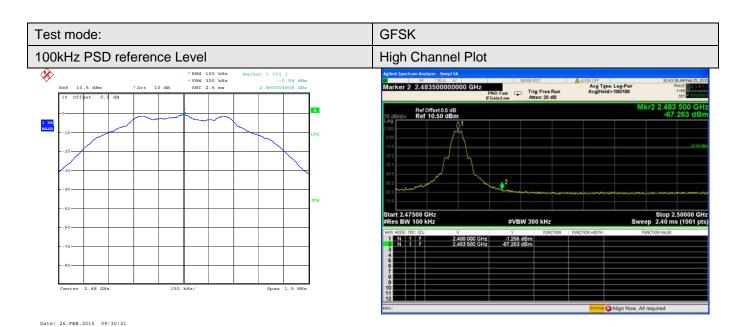




Date: 26.FEB.2015 09:31:02

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#### Spurious emission



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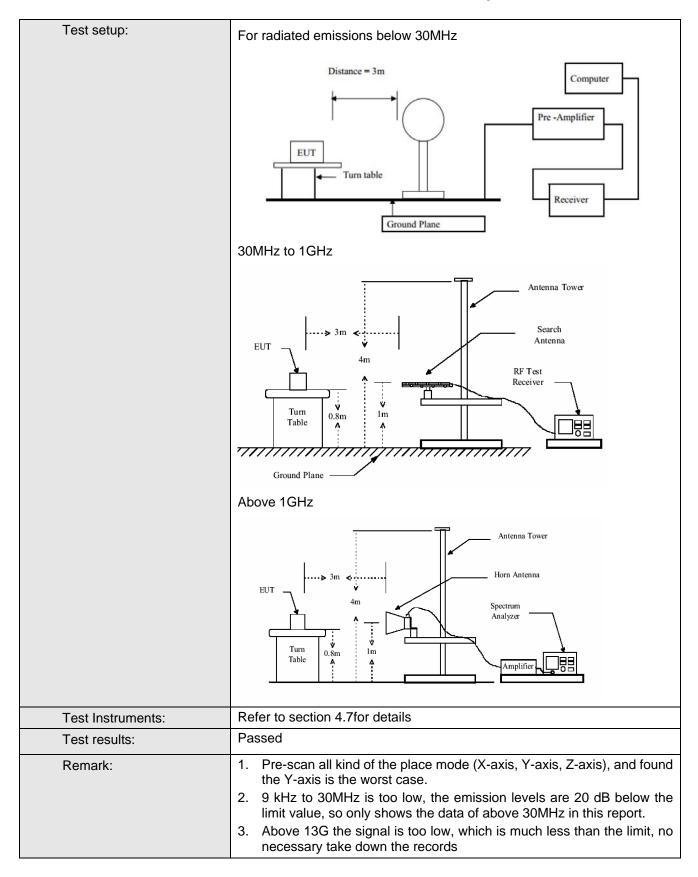


# 6.7 Radiated Band Edges and Spurious Emission Measurement

| Test Requirement:     | FCC Part15 C Section 15.209 and 15.205   |            |             |        |                  |  |  |
|-----------------------|--|------------|-------------|--------|------------------|--|--|
| Test Method:          | ANSI C63.4:2003  |            |             |        |                  |  |  |
| Test Frequency Range: | 9KHz to 25GHz  |            |             |        |                  |  |  |
| Test site:            | Measurement Distance: 3m   |            |             |        |                  |  |  |
| Receiver setup:       |  |            |             |        |                  |  |  |
| ·                     | Frequency Detector   |            | RBW         | VBW    | Remark           |  |  |
|                       | 30MHz-1GHz   | Quasi-peak | 120KHz      | 300KHz | Quasi-peak Value |  |  |
|                       | Above 1GHz Peak  |            | 1MHz        | 3MHz   | Peak Value       |  |  |
|                       | 7,0000 10112   | Peak       | 1MHz        | 10Hz   | Average Value    |  |  |
| Limit:                |  | <u> </u>   |             |        |                  |  |  |
|                       | Freque   |            | Limit (dBuV |        | Remark           |  |  |
|                       | 30MHz-8  |            | 40.0        |        | Quasi-peak Value |  |  |
|                       | 88MHz-21   |            | 43.5        |        | Quasi-peak Value |  |  |
|                       | 216MHz-9   |            | 46.0        |        | Quasi-peak Value |  |  |
|                       | 960MHz-  | 1GHZ       | 54.0        |        | Quasi-peak Value |  |  |
|                       | II ADOVE 1(aHZ   |            |             |        |                  |  |  |
| Test Procedure:       | 74.0 Peak Value  |            |             |        |                  |  |  |
|                       | 1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r02.  2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.  3. The EUT was placed on a turntable with 0.8 meter above ground.  4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.  5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level  6. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.  7. Use the following spectrum analyzer settings:  (1) Span shall wide enough to fully capture the emission being measured;  (2) Set RBW=100 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold;  (3) Set RBW = 1 MHz, VBW= 3MHz for f 1 GHz for peak measurement.  For average measurement:  • VBW = 10 Hz, when duty cycle is no less than 98 percent.  • VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. |            |             |        |                  |  |  |

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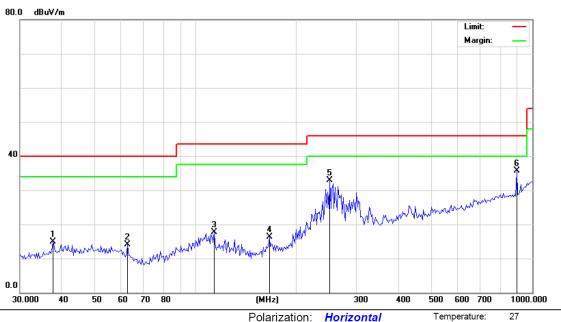
Humidity:

50 %



#### Below 1GHz

#### Horizontal:



Site Limit: FCC Part 15B Class B RE\_3 m

EUT: Tablet PC M/N: RL-SM02BD Mode: Tx Mode

Note:

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

20wer. AC 1200/001

Distance: 3m

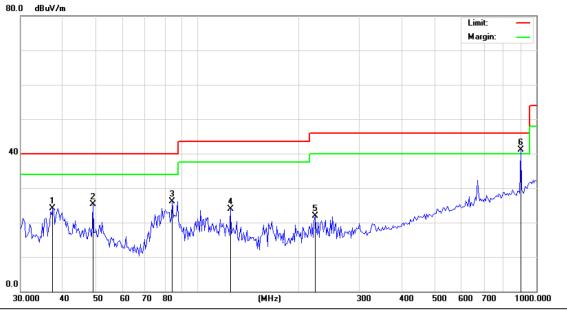
| No. | Mk | Freq.    | Reading<br>Level | Correct<br>Factor | Measure-<br>ment | Limit  | Over   |          | Antenna<br>Height | Table<br>Degree |         |
|-----|----|----------|------------------|-------------------|------------------|--------|--------|----------|-------------------|-----------------|---------|
|     |    | MHz      | dBuV             | dB                | dBuV/m           | dBuV/m | dB     | Detector | cm                | degree          | Comment |
| 1   |    | 37.5648  | 27.76            | -12.78            | 14.98            | 40.00  | -25.02 | peak     |                   | 0               |         |
| 2   |    | 62.7432  | 27.90            | -13.83            | 14.07            | 40.00  | -25.93 | peak     |                   | 0               |         |
| 3   |    | 113.2200 | 30.28            | -12.53            | 17.75            | 43.50  | -25.75 | peak     |                   | 0               |         |
| 4   |    | 165.4716 | 30.41            | -14.07            | 16.34            | 43.50  | -27.16 | peak     |                   | 0               |         |
| 5   |    | 250.4860 | 42.78            | -9.94             | 32.84            | 46.00  | -13.16 | peak     |                   | 0               |         |
| 6   | *  | 899.9577 | 33.08            | 2.67              | 35.75            | 46.00  | -10.25 | peak     |                   | 0               |         |

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#### Vertical:



Limit: FCC Part 15B Class B RE\_3 m

EUT: Tablet PC M/N: RL-SM02BD Mode: Tx Mode

Note:

Site

Polarization: Vertical

Power: AC 120V/60Hz

Temperature: 2

Humidity: 50 %

Power: AC 120 Distance: 3m

| No. N | /lk. Freq. | Reading<br>Level | Correct<br>Factor | Measure-<br>ment | Limit  | Over   |          | Antenna<br>Height | Table<br>Degree |         |
|-------|------------|------------------|-------------------|------------------|--------|--------|----------|-------------------|-----------------|---------|
|       | MHz        | dBuV             | dB                | dBuV/m           | dBuV/m | dB     | Detector | cm                | degree          | Comment |
| 1     | 37.3017    | 36.91            | -12.81            | 24.10            | 40.00  | -15.90 | peak     |                   | 0               |         |
| 2     | 49.0627    | 37.41            | -12.08            | 25.33            | 40.00  | -14.67 | peak     |                   | 0               |         |
| 3     | 84.2840    | 40.95            | -14.90            | 26.05            | 40.00  | -13.95 | peak     |                   | 0               |         |
| 4     | 124.9250   | 38.30            | -14.33            | 23.97            | 43.50  | -19.53 | peak     |                   | 0               |         |
| 5     | 222.2807   | 32.76            | -10.91            | 21.85            | 46.00  | -24.15 | peak     |                   | 0               |         |
| 6 *   | 899.9577   | 38.36            | 2.67              | 41.03            | 46.00  | -4.97  | peak     |                   | 0               |         |

Note: Measurements were conducted in all three channels (high, middle, low), and the worst case (Low channel) was submitted only.

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#### **Above 1GHz**

| Freq.   | Ant. Pol. | Peak    | AV      | Correctio | Emission Level |          | Peak limit | AV limit | Margin |
|---------|-----------|---------|---------|-----------|----------------|----------|------------|----------|--------|
| (MHz)   | H/V       | reading | reading | n Factor  | Peak           | AV       | (dBuV/m)   | (dBuV/m) | (dB)   |
|         |           | (dBuV)  | (dBuV)  | (dB)      | (dBuV/m)       | (dBuV/m) |            |          |        |
| 1378.25 | Н         | 49.07   |         | -4.20     | 44.87          |          | 74         | 54       | -9.13  |
| 4804.00 | Н         | 50.48   |         | -3.94     | 46.54          |          | 74         | 54       | -7.46  |
| 7206.00 | Н         | 45.04   |         | 0.52      | 45.56          |          | 74         | 54       | -8.44  |
|         | Н         |         |         |           |                |          |            |          |        |
|         | Н         |         |         |           |                |          |            |          |        |
|         |           |         |         |           |                |          |            |          |        |
| 1378.25 | V         | 48.38   |         | -4.25     | 44.13          |          | 74         | 54       | -9.87  |
| 4804.00 | V         | 50.89   |         | -3.94     | 46.95          |          | 74         | 54       | -7.05  |
| 7206.00 | V         | 44.65   |         | 0.59      | 45.24          |          | 74         | 54       | -8.76  |
|         | V         |         |         |           |                |          |            |          |        |
|         | 17        |         |         |           |                |          |            |          |        |

| Middle ch | annel: 244 | 2 MHz   |         |           |                |          |            |          |        |
|-----------|------------|---------|---------|-----------|----------------|----------|------------|----------|--------|
| Freq.     | Ant. Pol.  | Peak    | AV      | Correctio | Emission Level |          | Peak limit | AV limit | Margin |
| (MHz)     | H/V        | reading | reading | n Factor  | Peak AV        |          | (dBuV/m)   | (dBuV/m) | (dB)   |
| `         |            | (dBuV)  | (dBuV)  | (dB)      | (dBuV/m)       | (dBuV/m) | ,          | ,        | • •    |
| 1226.85   | Н          | 49.40   |         | -4.20     | 45.20          |          | 74         | 54       | -8.80  |
| 4884.00   | Н          | 50.67   |         | -3.98     | 46.69          |          | 74         | 54       | -7.31  |
| 7326.00   | Н          | 45.28   |         | 0.56      | 45.84          |          | 74         | 54       | -8.16  |
|           | Н          |         |         |           |                |          |            |          |        |
|           | Н          |         |         |           |                |          |            |          |        |
|           |            |         |         |           |                |          |            |          |        |
| 1306.45   | V          | 48.91   |         | -4.25     | 44.66          |          | 74         | 54       | -9.34  |
| 4882.00   | V          | 50.10   |         | -3.98     | 46.12          |          | 74         | 54       | -7.88  |
| 7323.00   | V          | 44.56   |         | 0.57      | 45.13          |          | 74         | 54       | -8.87  |
|           | V          |         |         |           |                |          |            |          |        |
|           | V          |         |         |           |                |          |            |          |        |

| Freq.   | nnel: 2480<br>Ant. Pol. | Peak              | AV                | Correctio        | correctio Emission Level |                | Peak limit | AV limit | Margin |
|---------|-------------------------|-------------------|-------------------|------------------|--------------------------|----------------|------------|----------|--------|
| (MHz)   | H/V                     | reading<br>(dBuV) | reading<br>(dBuV) | n Factor<br>(dB) | Peak<br>(dBuV/m)         | AV<br>(dBuV/m) | (dBuV/m)   | (dBuV/m) | (dB)   |
| 1303.34 | Н                       | 48.28             |                   | -4.20            | 44.08                    |                | 74         | 54       | -9.92  |
| 4960.00 | Н                       | 49.44             |                   | -3.98            | 45.46                    |                | 74         | 54       | -8.54  |
| 7440.00 | Н                       | 44.50             |                   | 0.52             | 45.02                    |                | 74         | 54       | -8.98  |
|         | Н                       |                   |                   |                  |                          |                |            |          |        |
|         | Н                       |                   |                   |                  |                          |                |            |          |        |
|         |                         |                   |                   |                  |                          |                |            |          |        |
| 1309.82 | V                       | 48.84             |                   | -4.25            | 44.59                    |                | 74         | 54       | -9.41  |
| 4960.00 | V                       | 49.93             |                   | -3.98            | 45.95                    |                | 74         | 54       | -8.05  |
| 7440.00 | V                       | 45.11             |                   | 0.57             | 45.68                    |                | 74         | 54       | -8.32  |
|         | V                       |                   |                   |                  |                          |                |            |          |        |
|         | V                       |                   |                   |                  |                          |                |            |          |        |

Notes: 1) Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.

- 2) Radiated emissions measured in frequencies above 1GHz were made with peak detector and Average (AV) detector.
- 3) Average test would be performed if the peak readings were greater than the average limit.
- 4) Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.
- 5) Emission Level=Peak (AV) Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 6) Margin (dB) = Emission Level (Peak) (dBuV/m)-Average limit (dBuV/m)

----End of report-----

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