

# 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

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.

*The results detailed in this test report relate only to the specific sample(s) tested. and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. This report is not to be reproduced except in full, without written approval from TCT Testing Technology.*

## 2 Version

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

Prepared by:

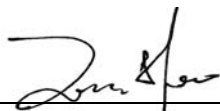


Date:

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)(1)     | Pass   |
| 20dB Occupied Bandwidth          | 15.247 (a)(1)     | Pass   |
| Carrier Frequencies Separation   | 15.247 (a)(1)     | Pass   |
| Hopping Channel Number           | 15.247 (a)(1)     | Pass   |
| Dwell Time                       | 15.247 (a)(1)     | Pass   |
| Radiated Emission                | 15.205/15.209     | Pass   |
| Band Edge                        | 15.247(d)         | Pass   |

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

## 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                           |
| Trade mark:            | N/A                                 |
| Operation Frequency:   | 2402MHz~2480MHz                     |
| Transfer rate:         | 1/2/3 Mbits/s                       |
| Number of channel:     | 79                                  |
| Modulation type:       | GFSK, $\pi/4$ -DQPSK, 8DPSK         |
| Modulation technology: | FHSS                                |
| Antenna Type:          | Internal Antenna                    |
| Antenna gain:          | 2dBi                                |
| Power supply:          | Rechargeable Li-ion Battery DC 3.7V |
| AC adapter:            | --                                  |

| Operation Frequency each of channel for GFSK, $\pi/4$ -DQPSK, 8DPSK     |           |         |           |         |           |         |           |
|-------------------------------------------------------------------------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel                                                                 | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 0                                                                       | 2402MHz   | 20      | 2422MHz   | 40      | 2442MHz   | 60      | 2462MHz   |
| 1                                                                       | 2403MHz   | 21      | 2423MHz   | 41      | 2443MHz   | 61      | 2463MHz   |
| 2                                                                       | 2404MHz   | 22      | 2424MHz   | 42      | 2444MHz   | 62      | 2464MHz   |
| 3                                                                       | 2405MHz   | 23      | 2425MHz   | 43      | 2445MHz   | 63      | 2465MHz   |
| 4                                                                       | 2406MHz   | 24      | 2426MHz   | 44      | 2446MHz   | 64      | 2466MHz   |
| 5                                                                       | 2407MHz   | 25      | 2427MHz   | 45      | 2447MHz   | 65      | 2467MHz   |
| 6                                                                       | 2408MHz   | 26      | 2428MHz   | 46      | 2448MHz   | 66      | 2468MHz   |
| 7                                                                       | 2409MHz   | 27      | 2429MHz   | 47      | 2449MHz   | 67      | 2469MHz   |
| 8                                                                       | 2410MHz   | 28      | 2430MHz   | 48      | 2450MHz   | 68      | 2470MHz   |
| 9                                                                       | 2411MHz   | 29      | 2431MHz   | 49      | 2451MHz   | 69      | 2471MHz   |
| 10                                                                      | 2412MHz   | 30      | 2432MHz   | 50      | 2452MHz   | 70      | 2472MHz   |
| 11                                                                      | 2413MHz   | 31      | 2433MHz   | 51      | 2453MHz   | 71      | 2473MHz   |
| 12                                                                      | 2414MHz   | 32      | 2434MHz   | 52      | 2454MHz   | 72      | 2474MHz   |
| 13                                                                      | 2415MHz   | 33      | 2435MHz   | 53      | 2455MHz   | 73      | 2475MHz   |
| 14                                                                      | 2416MHz   | 34      | 2436MHz   | 54      | 2456MHz   | 74      | 2476MHz   |
| 15                                                                      | 2417MHz   | 35      | 2437MHz   | 55      | 2457MHz   | 75      | 2477MHz   |
| 16                                                                      | 2418MHz   | 36      | 2438MHz   | 56      | 2458MHz   | 76      | 2478MHz   |
| 17                                                                      | 2419MHz   | 37      | 2439MHz   | 57      | 2459MHz   | 77      | 2479MHz   |
| 18                                                                      | 2420MHz   | 38      | 2440MHz   | 58      | 2460MHz   | 78      | 2480MHz   |
| 19                                                                      | 2421MHz   | 39      | 2441MHz   | 59      | 2461MHz   |         |           |
| Remark: Channel 0, 39 & 78 selected for GFSK, $\pi/4$ -DQPSK and 8DPSK. |           |         |           |         |           |         |           |

### 5.3 Measuremet 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           | $\pm 3.28\text{dB}$       |
| 2   | RF power,conducted           | $\pm 0.12\text{dB}$       |
| 3   | Spurious emissions,conducted | $\pm 0.11\text{dB}$       |
| 4   | All emissions,radiated(<1G)  | $\pm 4.88\text{dB}$       |
| 5   | All emissions,radiated(>1G)  | $\pm 4.88\text{dB}$       |
| 6   | Temperature                  | $\pm 0.5^{\circ}\text{C}$ |
| 7   | Humidity                     | $\pm 2\%$                 |

## 5.4 Test mode

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| Transmitting mode:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Keep the EUT in transmitting mode with worst case data rate. |
| Remark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | GFSK (1 Mbps) is the worst case mode.                        |
| 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 with a fresh battery, 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

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>The test facility is recognized, certified, or accredited by the following organizations:</p> <p>● <b>FCC - Registration No.: 572331</b><br/>Shenzhen TCT Testing Technology Co., Ltd., Shenzhen EMC Laboratory: Shenzhen Tongce Testing Lab</p> <p>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.</p> <p>● <b>IC - Registration No.: 10668A-1</b><br/>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</p> <p>● <b>CNAS - Registration No.: CNAS L6165</b><br/>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.</p> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 5.6 Laboratory Location

|                                                                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Shenzhen Tongce Testing Lab</p> <p>Address: 1F, Leinuo Watch Building, Fuyong Town, Baoan Dist, Shenzhen, China</p> <p>Tel: 13410377511</p> <p>Fax: --</p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 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        |
|              |             |           |     |            |

## 5.8 Test Instruments list

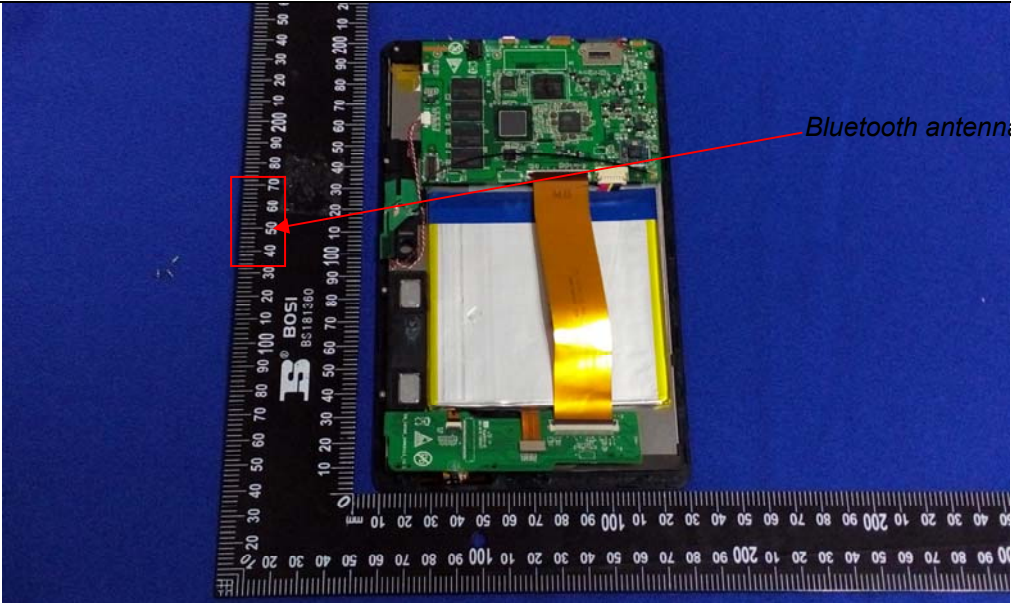
| Radiated Emission: |                    |                                    |            |              |                      |                          |
|--------------------|--------------------|------------------------------------|------------|--------------|----------------------|--------------------------|
| Item               | Test Equipment     | Manufacturer                       | Model No.  | Serial No.   | Cal. Date (mm-dd-yy) | Cal. Due date (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         | TCT                                | N/A        | N/A          | Sep.14, 2014         | Sep.15, 2015             |
| 11                 | Coax cable         | TCT                                | N/A        | N/A          | Sep.14, 2014         | Sep.15, 2015             |
| 12                 | Coax cable         | TCT                                | N/A        | N/A          | Sep.14, 2014         | Sep.15, 2015             |
| 13                 | Coax cable         | TCT                                | N/A        | N/A          | Sep.14, 2014         | Sep.15, 2015             |
| 14                 | EMI Test Software  | Shurple Technology                 | EZ-EMC     | N/A          | N/A                  | N/A                      |

| Conducted Emission: |                   |                    |           |             |                      |                          |
|---------------------|-------------------|--------------------|-----------|-------------|----------------------|--------------------------|
| Item                | Test Equipment    | Manufacturer       | Model No. | Serial No.  | Cal. Date (mm-dd-yy) | Cal. Due date (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        | TCT                | 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 (mm-dd-yy) | Cal. Due date (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 Senor | Anritsu       | MA2411B   | 0917070    | Dec. 12 2014         | Dec. 11, 2015            |
| 4                      | Power Meter       | Anritsu       | ML2495A   | 1005002    | Dec. 12 2014         | Dec. 11, 2015            |

## 6 Test results and Measurement Data

### 6.1 Antenna requirement:

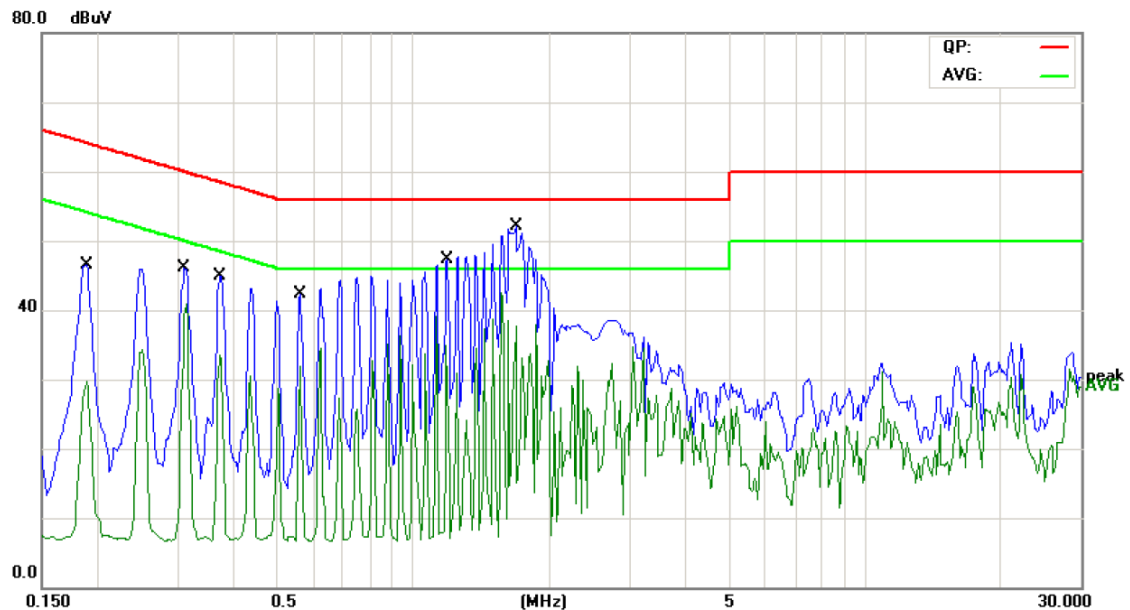
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| <b>Standard requirement:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | FCC Part15 C Section 15.203 /247(c) |
| <p><i>15.203 requirement:</i><br/>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.</p> <p><i>15.247(c) (1)(i) requirement:</i><br/>(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.</p> |                                     |
| <b>E.U.T Antenna:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                     |
| <p>The Bluetooth antenna is an internal PCB antenna which permanently attached, and the best case gain of the antenna is 2 dBi.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                     |

## 6.2 Conducted Emissions

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |           |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------|
| Test Requirement:                                | FCC Part15 C Section 15.207                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |           |
| Test Method:                                     | ANSI C63.4:2003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |           |
| Test Frequency Range:                            | 150 kHz to 30 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |           |
| Class / Severity:                                | Class B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |           |
| Receiver setup:                                  | RBW=9 kHz, VBW=30 kHz, Sweep time=auto                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |           |
| Limit:                                           | Frequency range (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Limit (dBUV) |           |
|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 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. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |           |
| Test setup:                                      | <div><p style="text-align: center;"><b>Reference Plane</b></p><p>Remark:<br/>E.U.T: Equipment Under Test<br/>LISN: Line Impedance Stabilization Network<br/>Test table height=0.8m</p></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |              |           |
| Test procedure:                                  | <div><ol style="list-style-type: none"><li>1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.</li><li>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).</li><li>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.</li></ol></div> |              |           |
| Test Instruments:                                | Refer to section 5.7 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              |           |
| Test mode:                                       | Bluetooth (Continuous transmitting) mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |           |
| Test results:                                    | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |           |

### Measurement Data

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



Site Chamber #1

Phase: **L1**

Temperature: 23 (C)

Limit: FCC PART15 Conduction(QP)

Power: AC 120V/60Hz

Humidity: 52 %

EUT: Tablet PC

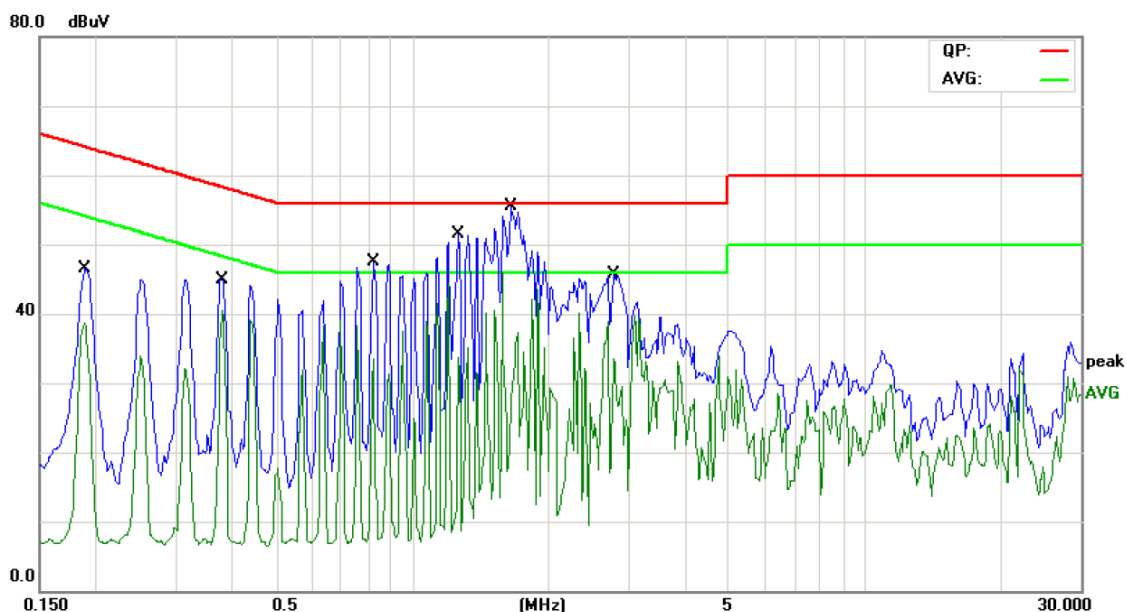
M/N: RL-SM02BD

Mode: Tx Mode

Note:

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 0.1891       | 32.22                    | 11.47                   | 43.69                    | 64.07         | -20.38     | QP       |         |
| 2   |     | 0.1891       | 19.79                    | 11.47                   | 31.26                    | 54.07         | -22.81     | AVG      |         |
| 3   |     | 0.3102       | 33.47                    | 11.40                   | 44.87                    | 59.96         | -15.09     | QP       |         |
| 4   |     | 0.3102       | 20.96                    | 11.40                   | 32.36                    | 49.96         | -17.60     | AVG      |         |
| 5   |     | 0.3727       | 32.27                    | 11.36                   | 43.63                    | 58.44         | -14.81     | QP       |         |
| 6   |     | 0.3727       | 21.73                    | 11.36                   | 33.09                    | 48.44         | -15.35     | AVG      |         |
| 7   |     | 0.5602       | 26.34                    | 11.27                   | 37.61                    | 56.00         | -18.39     | QP       |         |
| 8   |     | 0.5602       | 15.41                    | 11.27                   | 26.68                    | 46.00         | -19.32     | AVG      |         |
| 9   |     | 1.1852       | 34.14                    | 11.26                   | 45.40                    | 56.00         | -10.60     | QP       |         |
| 10  |     | 1.1852       | 23.65                    | 11.26                   | 34.91                    | 46.00         | -11.09     | AVG      |         |
| 11  | *   | 1.6812       | 37.82                    | 11.51                   | 49.33                    | 56.00         | -6.67      | QP       |         |
| 12  |     | 1.6812       | 26.49                    | 11.51                   | 38.00                    | 46.00         | -8.00      | AVG      |         |

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



Site Chamber #1

Phase: **N**

Temperature: 23 (C)

Limit: FCC PART15 Conduction(QP)

Power: AC 120V/60Hz

Humidity: 52 %

EUT: Tablet PC

M/N: RL-SM02BD

Mode: Tx Mode

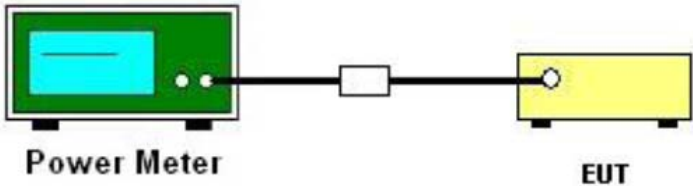
Note:

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 0.1891       | 33.15                    | 11.49                   | 44.64                    | 64.07         | -19.43     | QP       |         |
| 2   |     | 0.1891       | 24.72                    | 11.49                   | 36.21                    | 54.07         | -17.86     | AVG      |         |
| 3   |     | 0.3766       | 32.65                    | 11.37                   | 44.02                    | 58.35         | -14.33     | QP       |         |
| 4   | *   | 0.3766       | 27.38                    | 11.37                   | 38.75                    | 48.35         | -9.60      | AVG      |         |
| 5   |     | 0.8219       | 27.59                    | 11.20                   | 38.79                    | 56.00         | -17.21     | QP       |         |
| 6   |     | 0.8219       | 12.02                    | 11.20                   | 23.22                    | 46.00         | -22.78     | AVG      |         |
| 7   |     | 1.2672       | 11.49                    | 11.32                   | 22.81                    | 56.00         | -33.19     | QP       |         |
| 8   |     | 1.2672       | -0.97                    | 11.32                   | 10.35                    | 46.00         | -35.65     | AVG      |         |
| 9   |     | 1.6500       | 14.37                    | 11.51                   | 25.88                    | 56.00         | -30.12     | QP       |         |
| 10  |     | 1.6500       | -1.92                    | 11.51                   | 9.59                     | 46.00         | -36.41     | AVG      |         |
| 11  |     | 2.7906       | 23.25                    | 11.41                   | 34.66                    | 56.00         | -21.34     | QP       |         |
| 12  |     | 2.7906       | 3.71                     | 11.41                   | 15.12                    | 46.00         | -30.88     | AVG      |         |

### 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.

### 6.3 Conducted Output Power

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part15 C Section 15.247 (b)(3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Test Method:      | ANSI C63.4:2003 and DA00-705                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Limit:            | Section 15.247 (b) The maximum peak conducted output power of the intentional radiator shall not exceed the following: (1) For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band 0.125 watts.                                                                                                                                                  |
| Test setup:       |  <p>The diagram illustrates the test setup. A green Power Meter is connected via a black cable to a white attenuator, which is then connected via another black cable to a yellow EUT (Equipment Under Test).</p>                                                                                                                                                                                                                                                           |
| Test Instruments: | Refer to section 5.7 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Test mode:        | Non-hopping mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Test procedure:   | <ol style="list-style-type: none"> <li>1. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines.</li> <li>2. 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>3. Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>4. Measure the conducted output power with cable loss and record the results in the test report.</li> <li>5. Measure and record the results in the test report.</li> </ol> |
| Test results:     | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

#### Measurement Data

| GFSK mode           |                         |             |        |
|---------------------|-------------------------|-------------|--------|
| Test channel        | Peak Output Power (dBm) | Limit (dBm) | Result |
| Lowest              | 1.65                    | 21.00       | Pass   |
| Middle              | 2.32                    | 21.00       | Pass   |
| Highest             | 1.75                    | 21.00       | Pass   |
| $\pi/4$ -DQPSK mode |                         |             |        |
| Test channel        | Peak Output Power (dBm) | Limit (dBm) | Result |
| Lowest              | 1.05                    | 21.00       | Pass   |
| Middle              | 1.22                    | 21.00       | Pass   |
| Highest             | 1.68                    | 21.00       | Pass   |
| 8DPSK mode          |                         |             |        |
| Test channel        | Peak Output Power (dBm) | Limit (dBm) | Result |
| Lowest              | 1.46                    | 21.00       | Pass   |
| Middle              | 1.55                    | 21.00       | Pass   |
| Highest             | 1.63                    | 21.00       | Pass   |

## 6.4 20dB Occupy Bandwidth

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part15 C Section 15.247 (a)(1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Test Method:      | ANSI C63.4:2003 and DA00-705                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Limit:            | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Test setup:       |  <p style="text-align: center;">Spectrum Analyzer                      EUT</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Test Instruments: | Refer to section 5.7 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Test mode:        | Non-hopping mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                   | <ol style="list-style-type: none"> <li>1. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines.</li> <li>2. 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>3. Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>4. Use the following spectrum analyzer settings for 20dB Bandwidth measurement.<br/>Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel; RBW <math>\geq</math> 1% of the 20 dB bandwidth; VBW <math>\geq</math> RBW; Sweep = auto; Detector function = peak; Trace = max hold.</li> <li>5. Measure and record the results in the test report.</li> </ol> |
| Test results:     | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

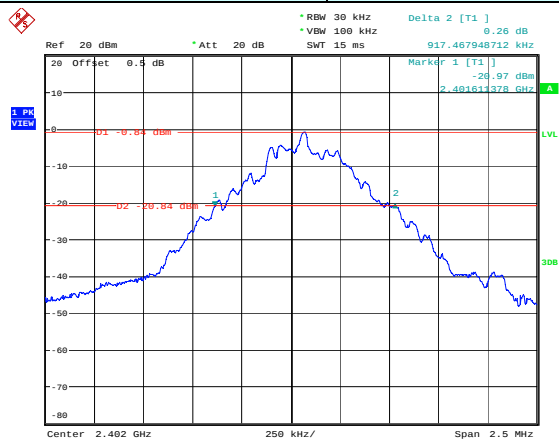
### Measurement Data

| Test channel | 20dB Occupy Bandwidth (kHz) |                |         |
|--------------|-----------------------------|----------------|---------|
|              | GFSK                        | $\pi/4$ -DQPSK | 8DPSK   |
| Lowest       | 917.47                      | 1241.99        | 1225.96 |
| Middle       | 913.46                      | 1270.03        | 1225.96 |
| Highest      | 913.46                      | 1262.02        | 1225.96 |

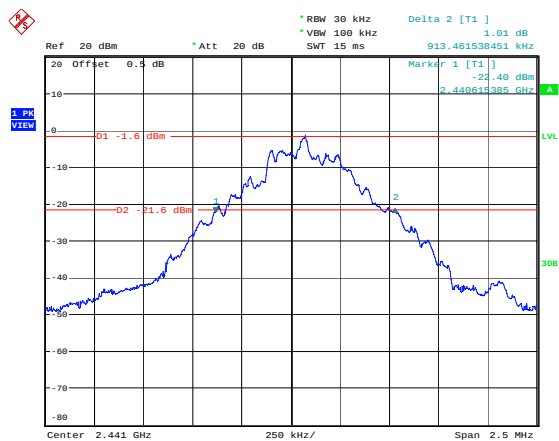
Test plot as follows:

Modulation mode:

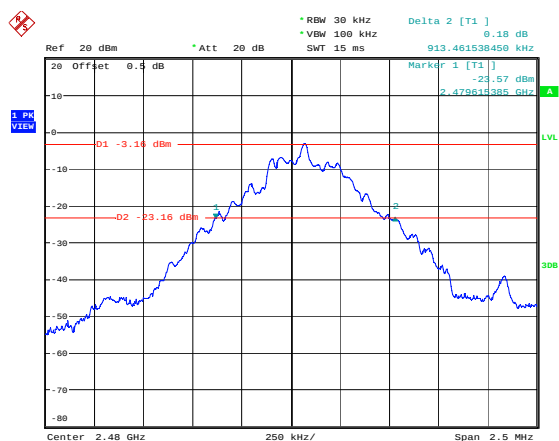
GFSK



Lowest channel



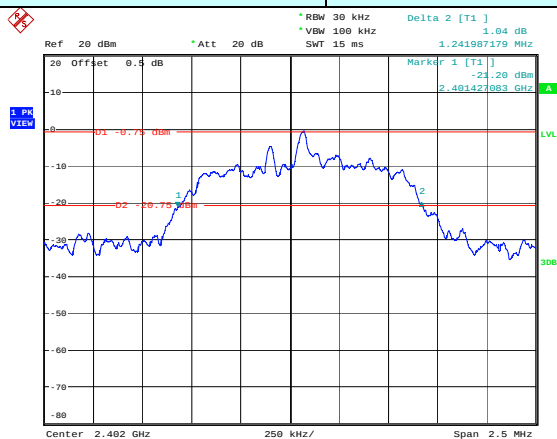
Middle channel



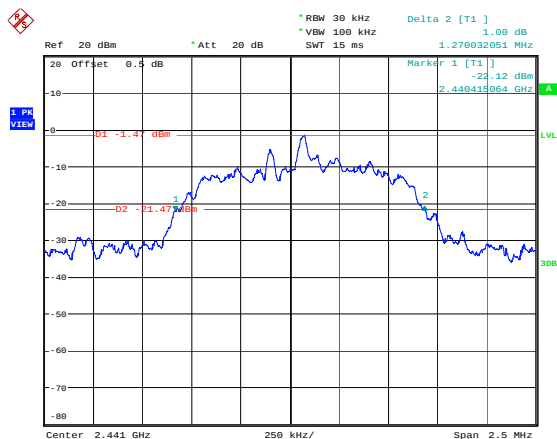
Highest channel

Modulation mode:

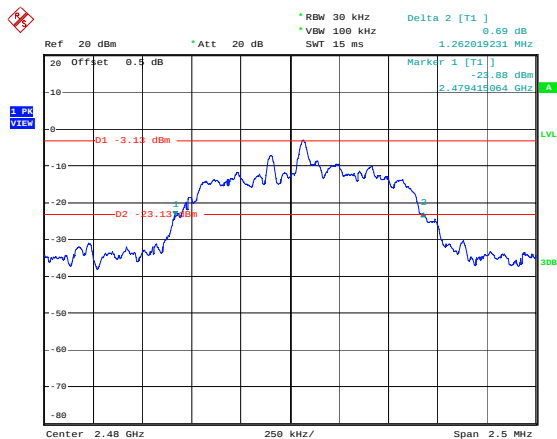
$\pi/4$ -DQPSK



Lowest channel



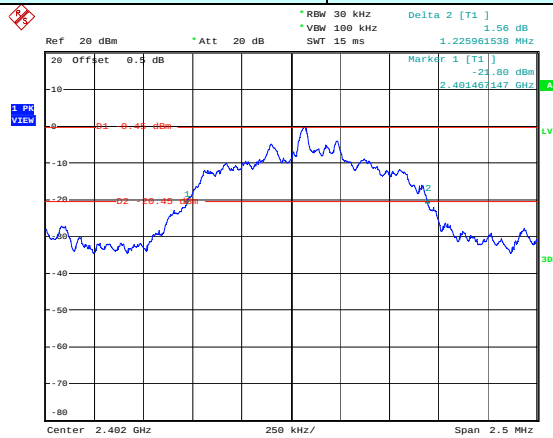
Middle channel



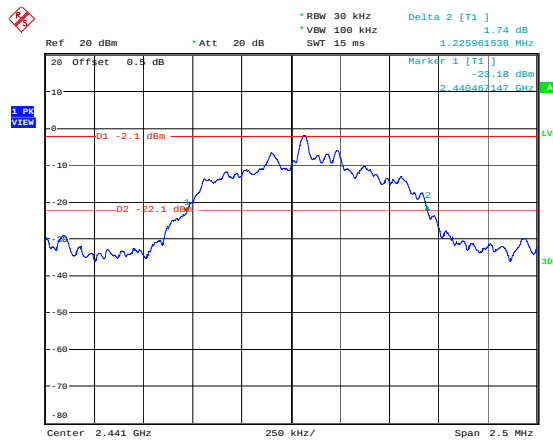
Highest channel

Modulation mode:

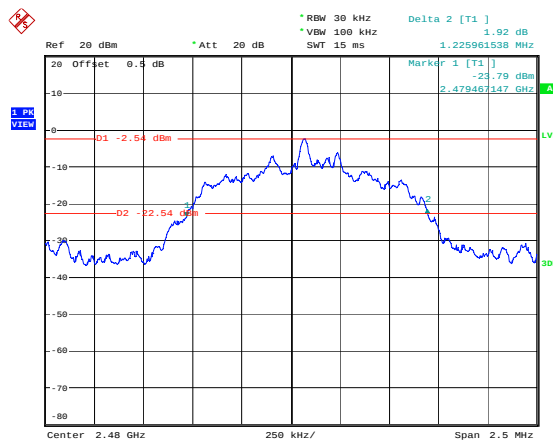
8DPSK



Lowest channel

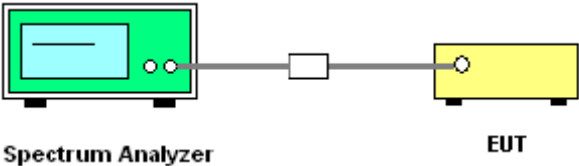


Middle channel



Highest channel

## 6.5 Carrier Frequencies Separation

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part15 C Section 15.247 (a)(1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Test Method:      | ANSI C63.4:2003 and DA00-705                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Limit:            | Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Test setup:       |  <p>The diagram illustrates the test setup. On the left is a green Spectrum Analyzer with a blue screen. A red line representing an RF cable connects the Spectrum Analyzer to a small white square representing an attenuator. Another red line connects the attenuator to a yellow rectangular box representing the EUT (Equipment Under Test).</p>                                                                                                                                                                                                                                                                                                                                   |
| Test Instruments: | Refer to section 5.7 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Test mode:        | Hopping mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                   | <ol style="list-style-type: none"> <li>1. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines.</li> <li>2. 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>3. Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>4. Enable the EUT hopping function.</li> <li>5. Use the following spectrum analyzer settings:<br/>Span = wide enough to capture the peaks of two adjacent channels;<br/>RBW <math>\geq</math> 1% of the span; VBW <math>\geq</math> RBW; Sweep = auto;<br/>Detector function = peak; Trace = max hold.</li> <li>6. Measure and record the results in the test report.</li> </ol> |
| Test results:     | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

### Measurement Data

| GFSK mode           |                                      |             |        |
|---------------------|--------------------------------------|-------------|--------|
| Test channel        | Carrier Frequencies Separation (kHz) | Limit (kHz) | Result |
| Lowest              | 1022                                 | 611.65      | Pass   |
| Middle              | 1000                                 | 611.65      | Pass   |
| Highest             | 1000                                 | 611.65      | Pass   |
| $\pi/4$ -DQPSK mode |                                      |             |        |
| Test channel        | Carrier Frequencies Separation (kHz) | Limit (kHz) | Result |
| Lowest              | 1018                                 | 846.69      | Pass   |
| Middle              | 1002                                 | 846.69      | Pass   |
| Highest             | 1002                                 | 846.69      | Pass   |
| 8DPSK mode          |                                      |             |        |
| Test channel        | Carrier Frequencies Separation (kHz) | Limit (kHz) | Result |
| Lowest              | 1002                                 | 817.31      | Pass   |
| Middle              | 1002                                 | 817.31      | Pass   |
| Highest             | 1000                                 | 817.31      | Pass   |

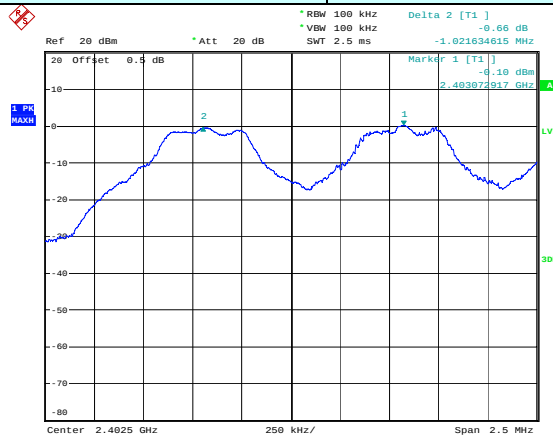
Note: According to section 6.4

| Mode           | 20dB bandwidth (kHz)<br>(worse case) | Limit (kHz)<br>(Carrier Frequencies Separation) |
|----------------|--------------------------------------|-------------------------------------------------|
| GFSK           | 917.47                               | 611.65                                          |
| $\pi/4$ -DQPSK | 1270.03                              | 846.69                                          |
| 8DPSK          | 1225.96                              | 817.31                                          |

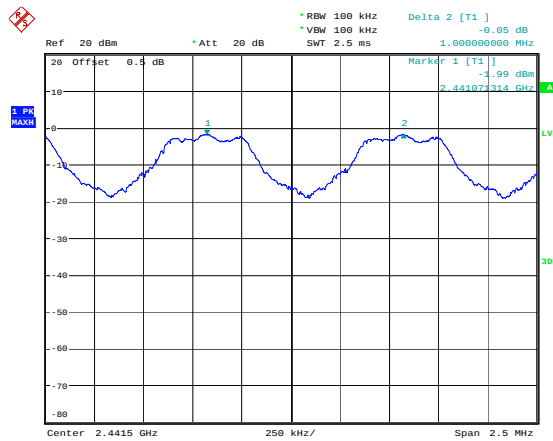
Test plot as follows:

Modulation mode:

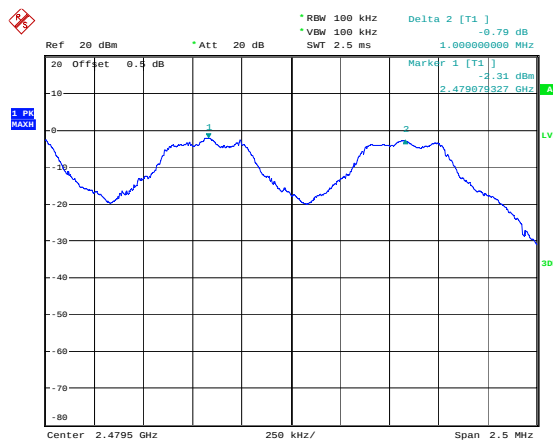
GFSK



Lowest channel



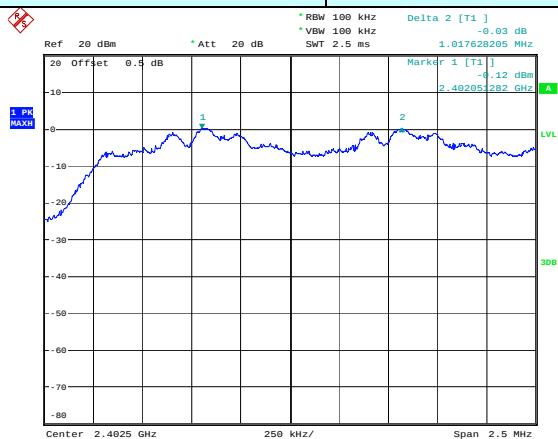
Middle channel



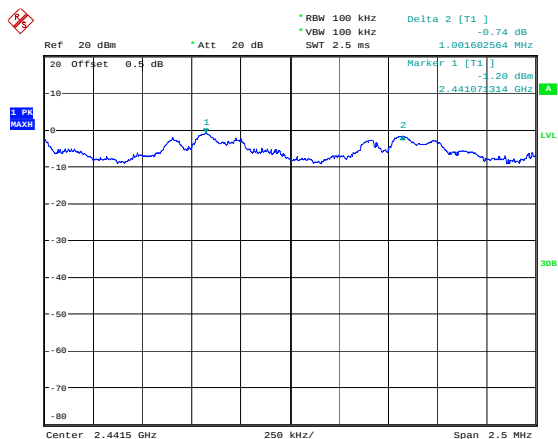
Highest channel

Modulation mode:

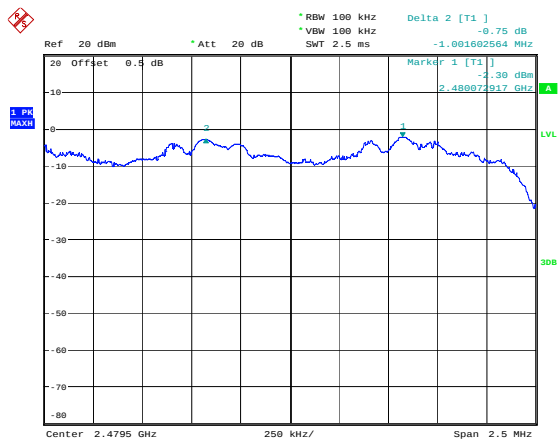
$\pi/4$ -DQPSK



Lowest channel



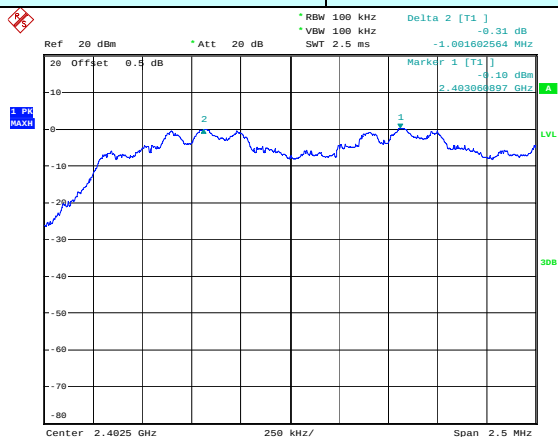
Middle channel



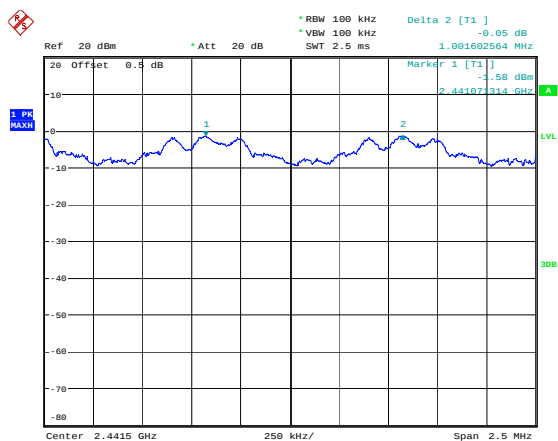
Highest channel

Modulation mode:

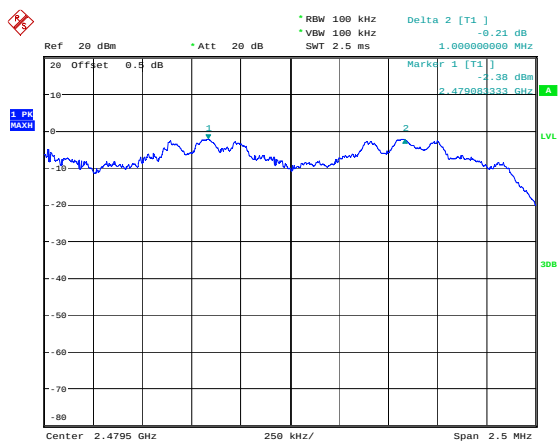
8DPSK



Lowest channel

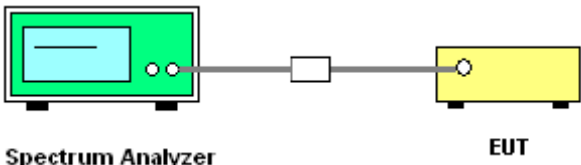


Middle channel



Highest channel

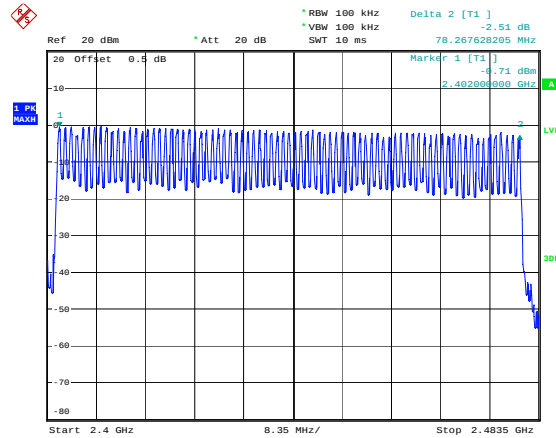
## 6.6 Hopping Channel Number

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part15 C Section 15.247 (a)(1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Test Method:      | ANSI C63.4:2003 and DA00-705                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Limit:            | Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Test setup:       |  <p>The diagram illustrates the test setup. On the left is a green box labeled 'Spectrum Analyzer'. A cable connects it to a small white box labeled 'Attenuator'. Another cable connects the attenuator to a yellow box labeled 'EUT' (Equipment Under Test).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Test Instruments: | Refer to section 5.7 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Test mode:        | Hopping mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                   | <ol style="list-style-type: none"> <li>1. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines.</li> <li>2. 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>3. Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>4. Enable the EUT hopping function.</li> <li>5. Use the following spectrum analyzer settings: Span = the frequency band of operation; <math>RBW \geq 1\%</math> of the span; <math>VBW \geq RBW</math>; Sweep = auto; Detector function = peak; Trace = max hold.</li> <li>6. The number of hopping frequency used is defined as the number of total channel.</li> <li>7. Record the measurement data derived from spectrum analyzer.</li> </ol> |
| Test results:     | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

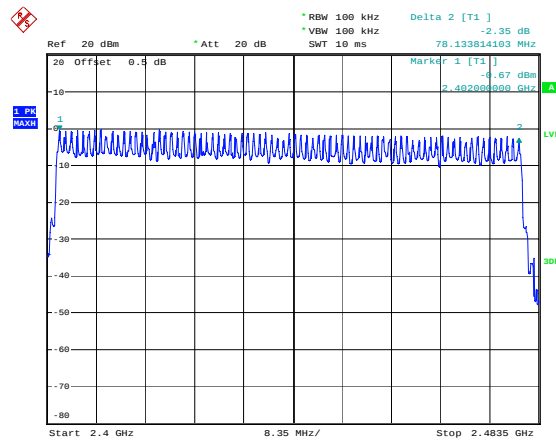
### Measurement Data:

| Mode                        | Hopping channel numbers | Limit | Result |
|-----------------------------|-------------------------|-------|--------|
| GFSK, $\pi/4$ -DQPSK, 8DPSK | 79                      | 15    | Pass   |

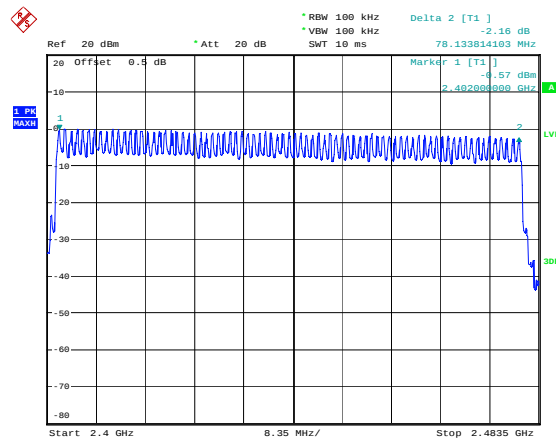
### GFSK



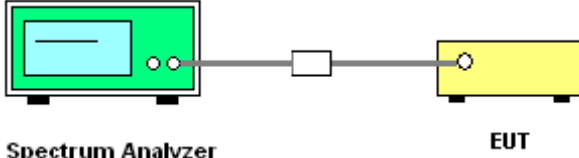
### $\pi/4$ -DQPSK



### 8DPSK



## 6.7 Dwell Time

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part15 C Section 15.247 (a)(1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Test Method:      | ANSI C63.4:2003 and KDB DA00-705                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Limit:            | The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Test setup:       |  <p style="text-align: center;"><b>Spectrum Analyzer</b>                      <b>EUT</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Test Instruments: | Refer to section 5.7 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Test mode:        | Hopping mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                   | <ol style="list-style-type: none"> <li>1. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines.</li> <li>2. 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>3. Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>4. Enable the EUT hopping function.</li> <li>5. Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel; RBW = 1 MHz; VBW ≥ RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold.</li> <li>6. Measure and record the results in the test report.</li> </ol> |
| Test results:     | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

### Measurement Data (Worst case)

| Mode      | Packet | Hops Over Occupancy Time(hops) | Package Transfer Time (msec) | Dwell time (second) | Limit (second) | Result |
|-----------|--------|--------------------------------|------------------------------|---------------------|----------------|--------|
| GFSK      | DH5    | 106.67                         | 3.01                         | 0.32                | 0.4            | Pass   |
| π/4-DQPSK | 2-DH5  | 106.67                         | 2.97                         | 0.32                | 0.4            | Pass   |
| 8DPSK     | 3-DH5  | 106.67                         | 2.96                         | 0.32                | 0.4            | Pass   |

Remark: 1. In normal mode, hopping rate is 1600 hops/s with 6 slots in 79 hopping channels.

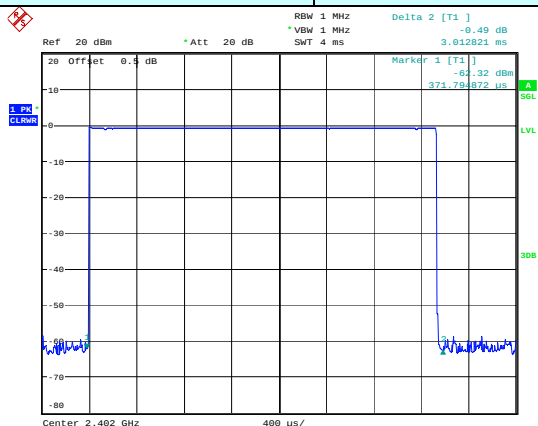
With channel hopping rate (1600 / 6 / 79) in Occupancy Time Limit (0.4 x 79) (s),

Hops Over Occupancy Time comes to (1600 / 6 / 79) x (0.4 x 79) = 106.67 hops

2. Dwell Time(s) = Hops Over Occupancy Time (hops) x Package Transfer Time

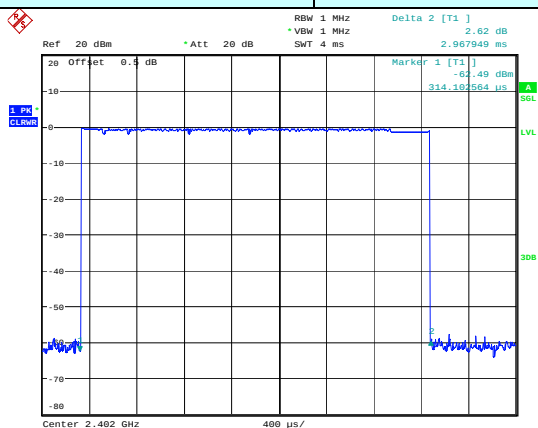
## Test plot Package Transfer Time:

|                  |      |
|------------------|------|
| Modulation mode: | GFSK |
|------------------|------|



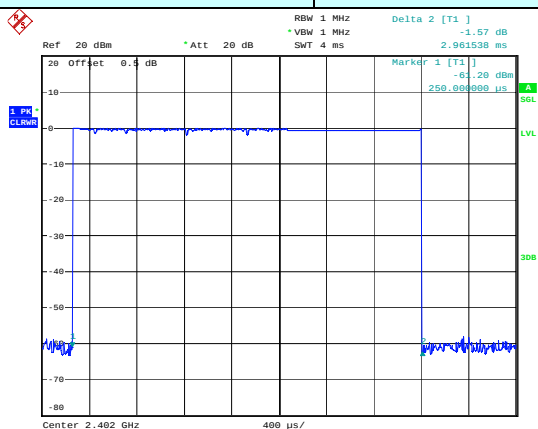
## DH5

|                  |                |
|------------------|----------------|
| Modulation mode: | $\pi/4$ -DQPSK |
|------------------|----------------|



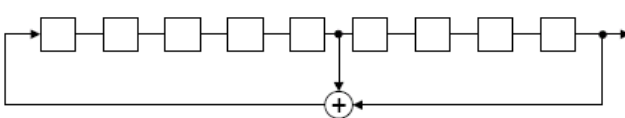
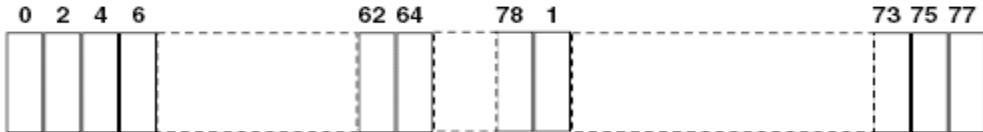
## 2-DH5

|                  |       |
|------------------|-------|
| Modulation mode: | 8DPSK |
|------------------|-------|

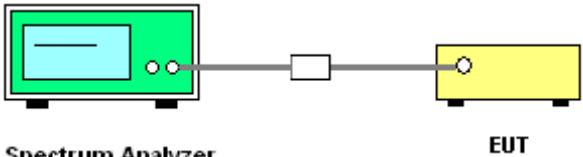


## 3-DH5

## 6.8 Pseudorandom Frequency Hopping Sequence

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| <b>Test Requirement:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>FCC Part15 C Section 15.247 (a)(1) requirement:</b> |
| <p>Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.</p> <p>Alternatively. Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.</p> |                                                        |
| <b>EUT Pseudorandom Frequency Hopping Sequence</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                        |
| <p>The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONES; i.e. the shift register is initialized with nine ones.</p> <ul style="list-style-type: none"> <li>• Number of shift register stages: 9</li> <li>• Length of pseudo-random sequence: <math>2^9 - 1 = 511</math> bits</li> <li>• Longest sequence of zeros: 8 (non-inverted signal)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                            |                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                        |
| <p><b>Linear Feedback Shift Register for Generation of the PRBS sequence</b></p> <p>An example of Pseudorandom Frequency Hopping Sequence as follow:</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                        |
| <p>Each frequency used equally on the average by each transmitter.</p> <p>The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                        |

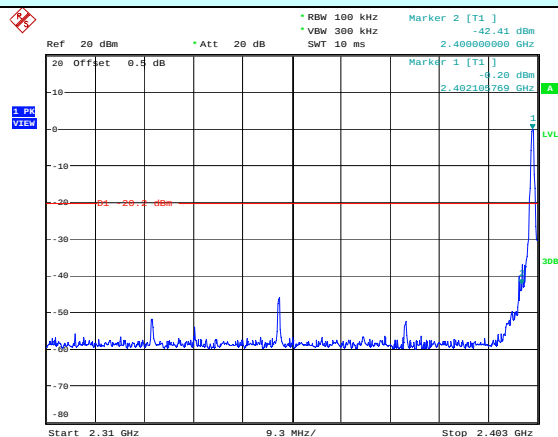
## 6.9 Conducted Band Edge Measurement

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part15 C Section 15.247 (d)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Test Method:      | ANSI C63.4:2003 and DA00-705                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Limit:            | In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Test setup:       |  <p>The diagram illustrates the test setup. On the left is a green box labeled 'Spectrum Analyzer'. A cable connects it to a yellow box labeled 'EUT' (Equipment Under Test) on the right. A small white box is positioned between the two main components on the connecting line.</p>                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Test Instruments: | Refer to section 5.7 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Test mode:        | Non-hopping mode and hopping mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Test procedure:   | <ol style="list-style-type: none"> <li>1. The testing follows the guidelines in Band-edge Compliance of RF Conducted Emissions of FCC Public Notice DA 00-705 Measurement Guidelines.</li> <li>2. Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>3. Set RBW = 100kHz (<math>\geq 1\%</math> span=10MHz ), VBW = 300kHz (<math>\geq</math>RBW). Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used.</li> <li>4. Enable hopping function of the EUT and then repeat step 2. and 3.</li> <li>5. Measure and record the results in the test report.</li> </ol> |
| Test results:     | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

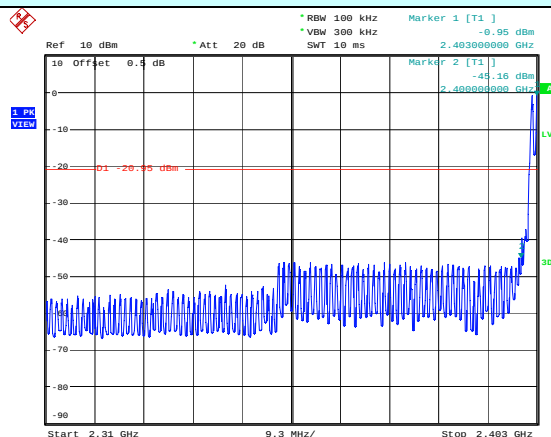
Test plot as follows:

GFSK

| Test channel: | Lowest channel |
|---------------|----------------|
|---------------|----------------|

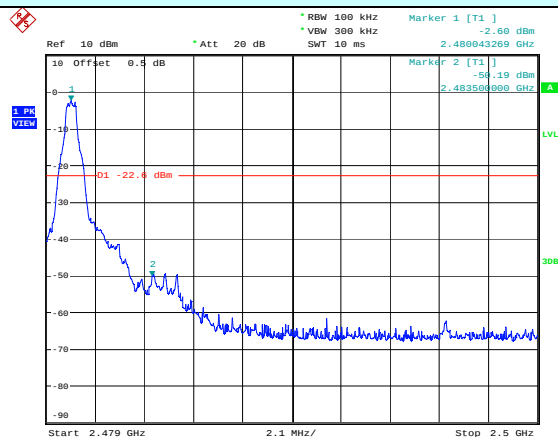


No-hopping mode

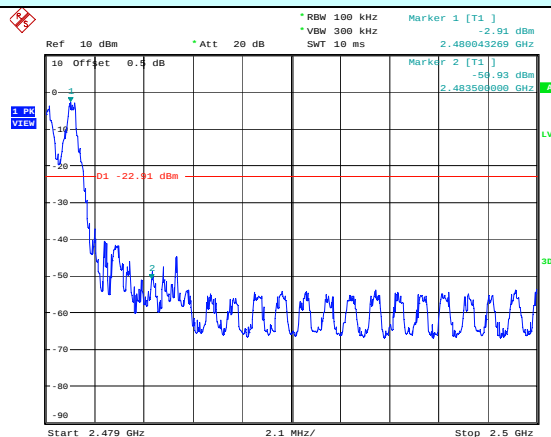


Hopping mode

| Test channel: | Highest channel |
|---------------|-----------------|
|---------------|-----------------|



No-hopping mode

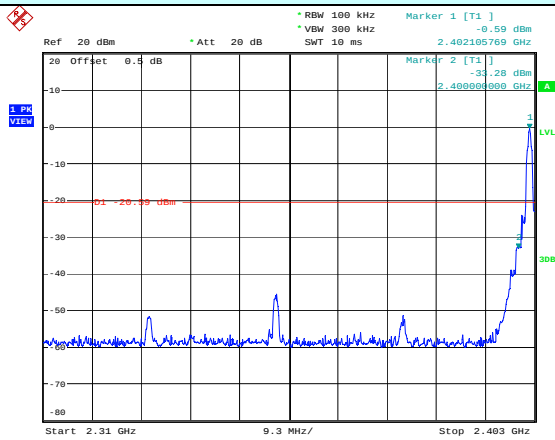


Hopping mode

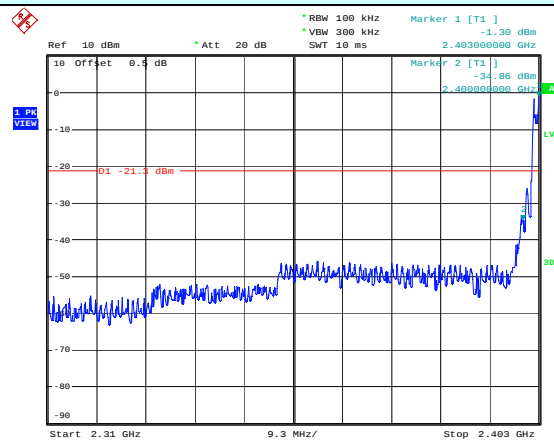
$\pi/4$ -DQPSK

Test channel:

Lowest channel



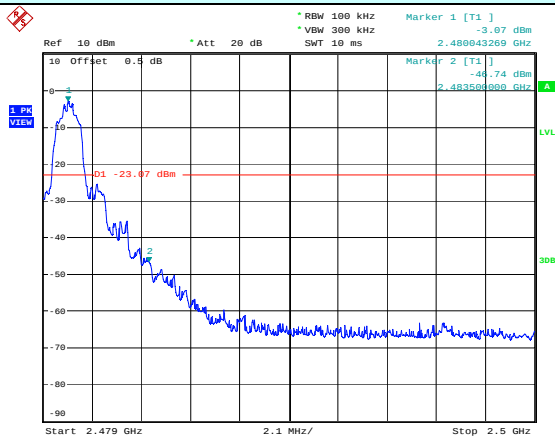
No-hopping mode



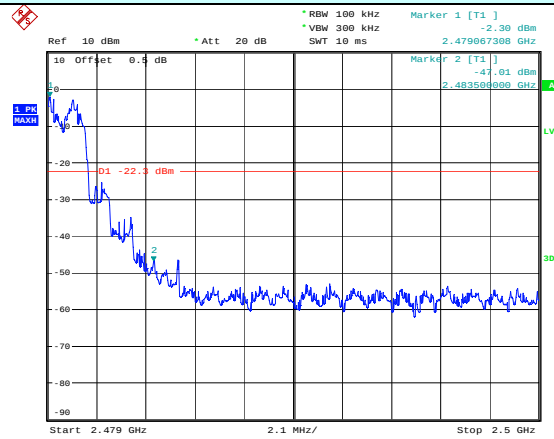
Hopping mode

Test channel:

Highest channel



No-hopping mode

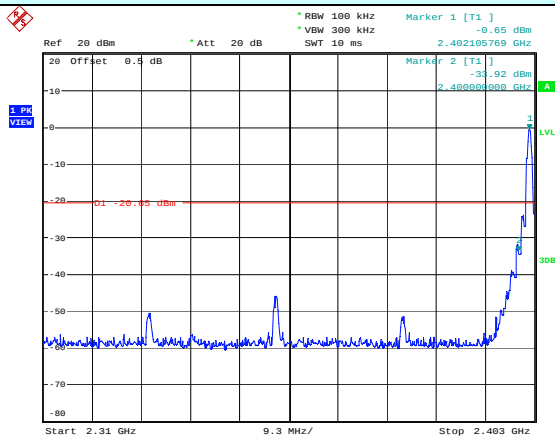


Hopping mode

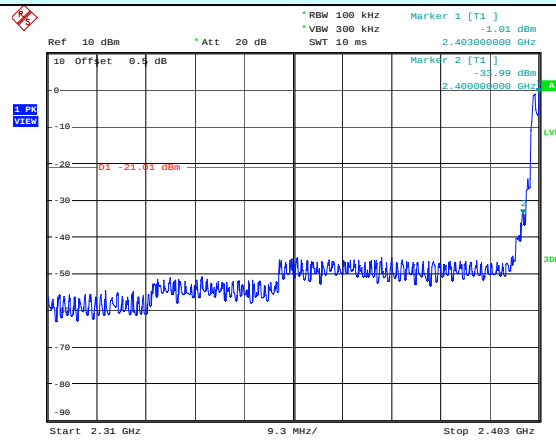
8DPSK

Test channel:

Lowest channel



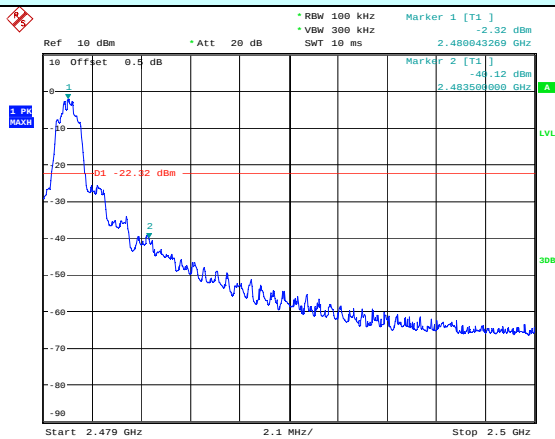
No-hopping mode



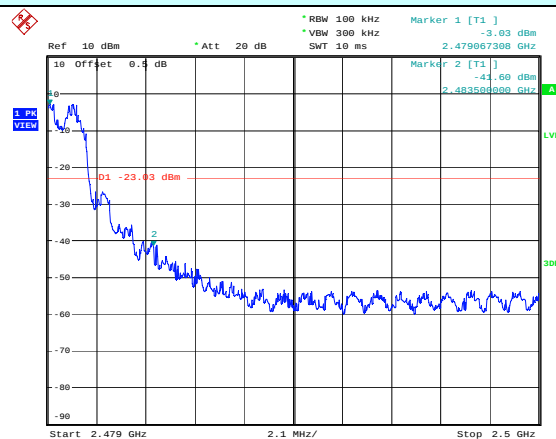
Hopping mode

Test channel:

Highest channel

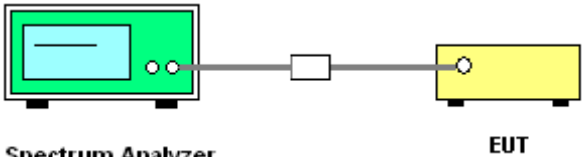


No-hopping mode



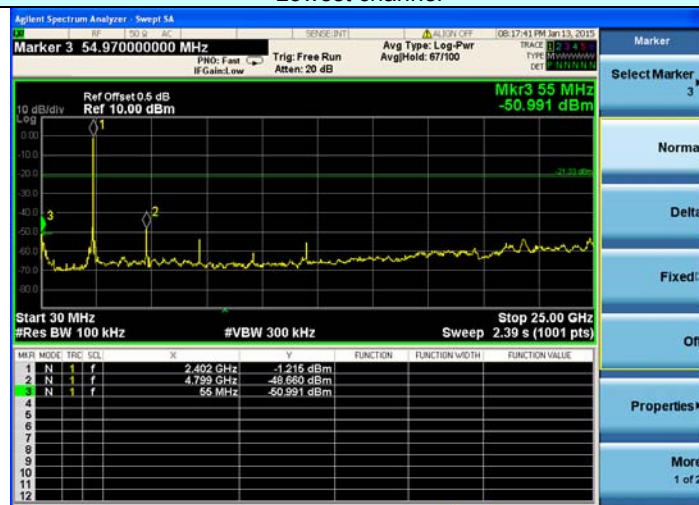
Hopping mode

## 6.10 Conducted Spurious Emission Measurement

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part15 C Section 15.247 (d)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Test Method:      | ANSI C63.4:2003 and DA00-705                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Limit:            | In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Test setup:       |  <p>The diagram illustrates the test setup. On the left is a green box labeled 'Spectrum Analyzer'. A cable connects it to a small white box labeled 'Attenuator'. Another cable connects the attenuator to a yellow box labeled 'EUT' (Equipment Under Test).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Test Instruments: | Refer to section 5.7 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Test mode:        | Non-hopping mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                   | <ol style="list-style-type: none"> <li>1. The testing follows the guidelines in Spurious RF Conducted Emissions of FCC Public Notice DA 00-705 Measurement Guidelines</li> <li>2. 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>3. Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>4. Set RBW = 100 kHz, VBW = 300kHz, scan up through 10th harmonic. All harmonics / spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW.</li> <li>5. Measure and record the results in the test report.</li> <li>6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.</li> </ol> |
| Test results:     | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

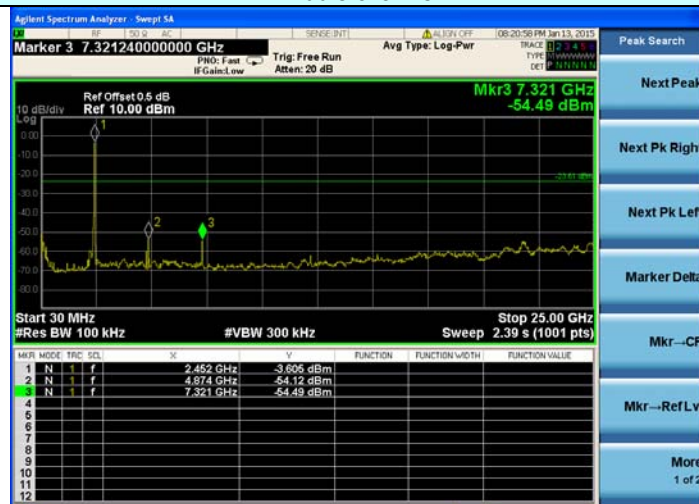
GFSK

Lowest channel



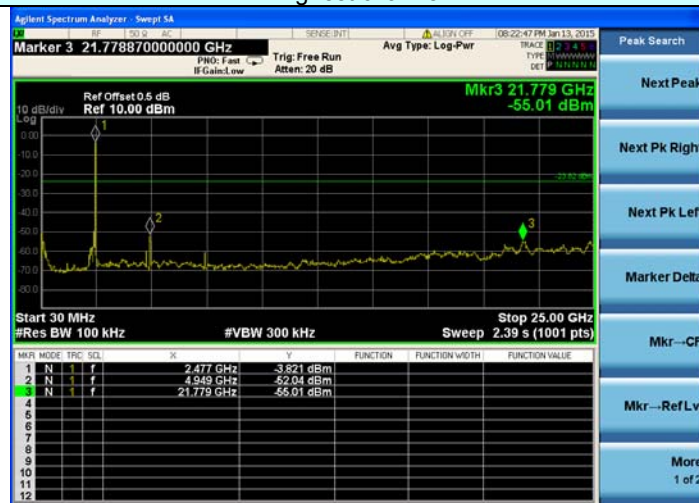
30MHz~25GHz

Middle channel



30MHz~25GHz

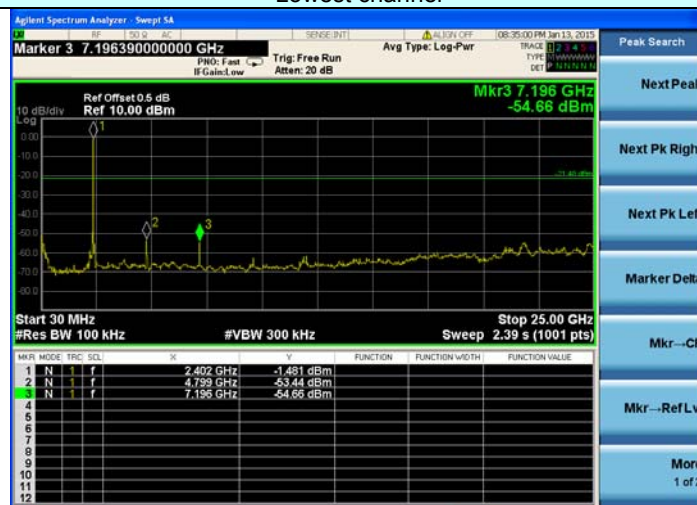
Highest channel



30MHz~25GHz

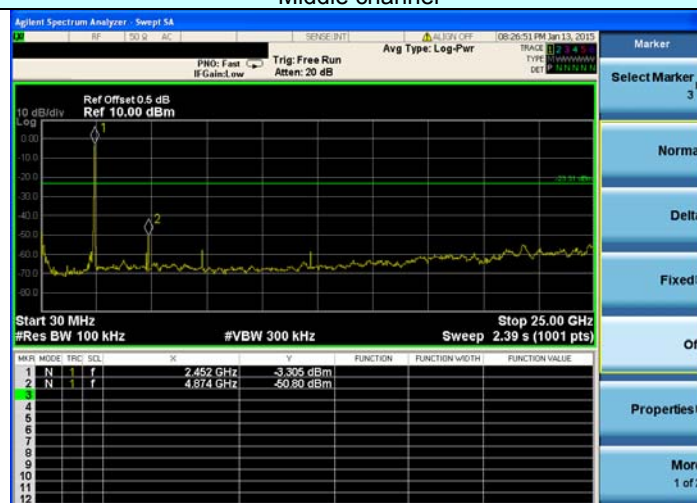
$\pi/4$ -DQPSK

## Lowest channel



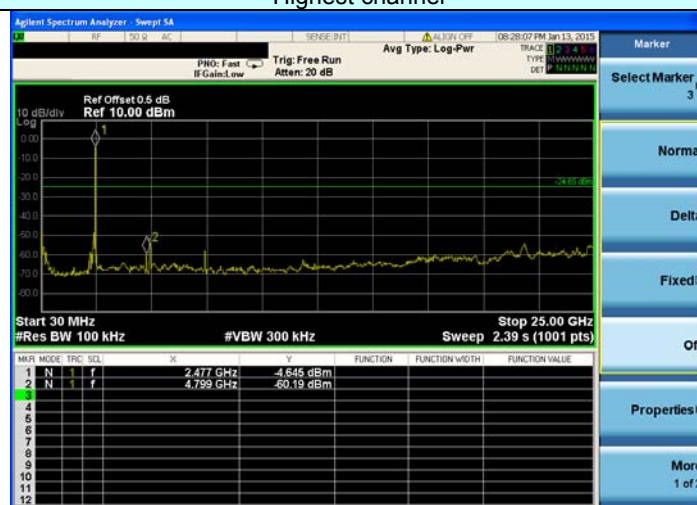
30MHz~25GHz

## Middle channel



30MHz~25GHz

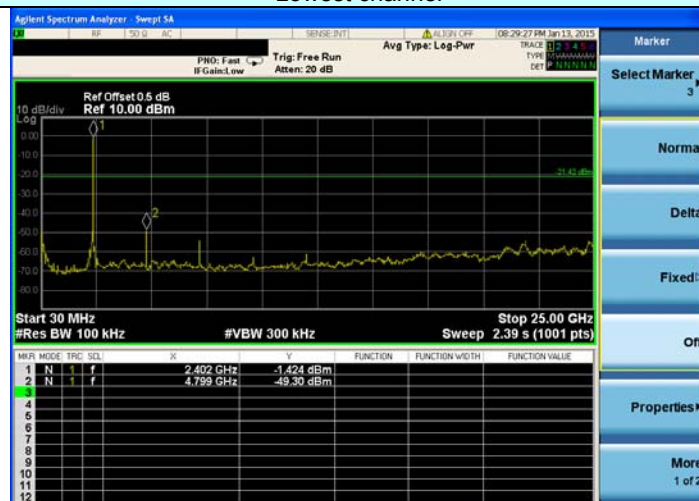
## Highest channel



30MHz~25GHz

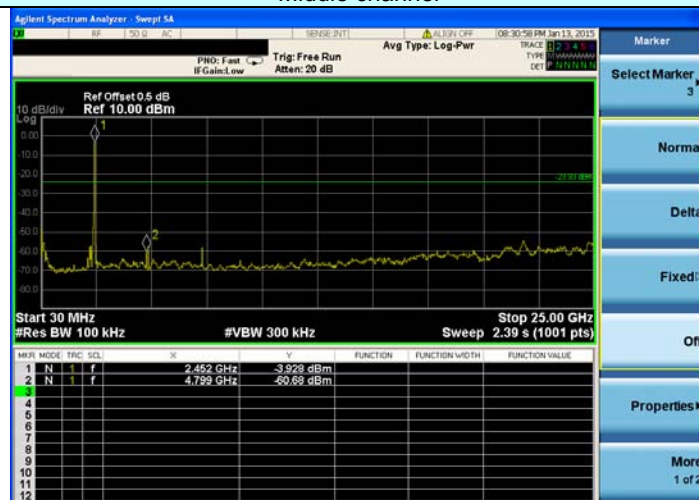
8DPSK

Lowest channel



30MHz~25GHz

Middle channel



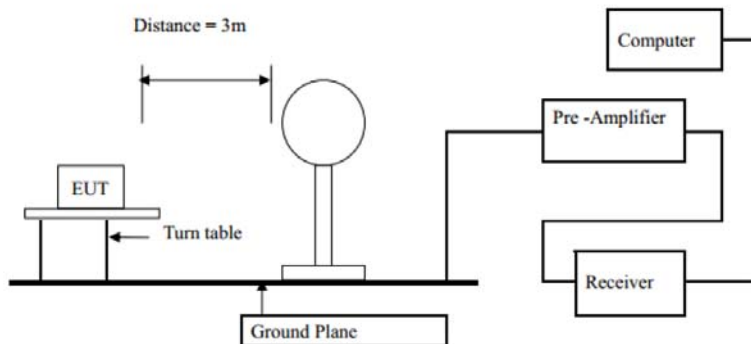
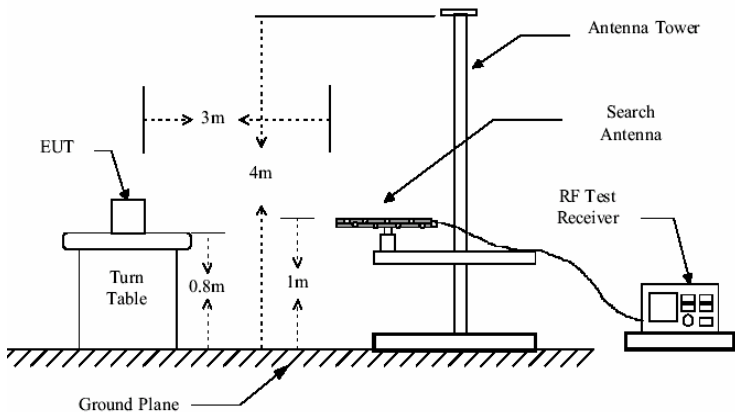
30MHz~25GHz

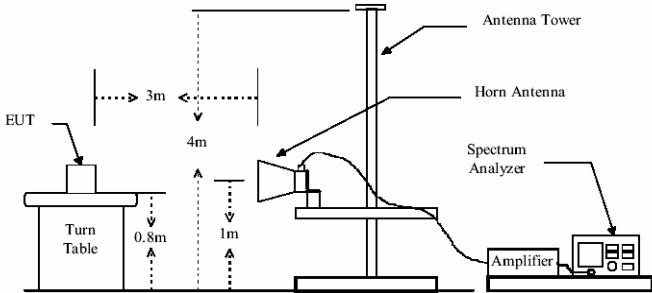
Highest channel



30MHz~25GHz

## 6.11 Radiated Spurious Emission Measurement

|                       |                                                                                      |            |                    |        |                  |
|-----------------------|--------------------------------------------------------------------------------------|------------|--------------------|--------|------------------|
| Test Requirement:     | FCC Part15 C Section 15.209                                                          |            |                    |        |                  |
| Test Method:          | ANSI C63.4: 2003                                                                     |            |                    |        |                  |
| Test Frequency Range: | 9 kHz to 25 GHz                                                                      |            |                    |        |                  |
| 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       |
|                       |                                                                                      | Peak       | 1MHz               | 10Hz   | Average Value    |
| Limit:                | Frequency                                                                            |            | Limit (dBuV/m @3m) |        | Remark           |
|                       | 30MHz-88MHz                                                                          |            | 40.0               |        | Quasi-peak Value |
|                       | 88MHz-216MHz                                                                         |            | 43.5               |        | Quasi-peak Value |
|                       | 216MHz-960MHz                                                                        |            | 46.0               |        | Quasi-peak Value |
|                       | 960MHz-1GHz                                                                          |            | 54.0               |        | Quasi-peak Value |
|                       | Above 1GHz                                                                           |            | 54.0               |        | Average Value    |
|                       |                                                                                      |            | 74.0               |        | Peak Value       |
| Test setup:           | For radiated emissions below 30MHz                                                   |            |                    |        |                  |
|                       |   |            |                    |        |                  |
|                       | 30MHz to 1GHz                                                                        |            |                    |        |                  |
|                       |  |            |                    |        |                  |
|                       | Above 1GHz                                                                           |            |                    |        |                  |

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <p>Test Procedure:</p>   | <ol style="list-style-type: none"> <li>1. The testing follows the guidelines in Spurious Radiated Emissions of FCC Public Notice DA 00-705 Measurement Guidelines.</li> <li>2. The EUT was placed on a turntable with 0.8 meter above ground.</li> <li>3. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.</li> <li>4. For each suspected emission, 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 to comply with the guidelines.</li> <li>5. Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>6. Use the following spectrum analyzer settings:             <ol style="list-style-type: none"> <li>(1) Span shall wide enough to fully capture the emission being measured;</li> <li>(2) Set RBW=100 kHz for <math>f &lt; 1 \text{ GHz}</math>, RBW=1MHz for <math>f &gt; 1 \text{ GHz}</math>; VBW<math>\geq</math>RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak</li> <li>(3) For average measurement: use duty cycle correction factor method per 15.35(c). Duty cycle = On time/100 milliseconds<br/> <math display="block">\text{On time} = N1 \cdot L1 + N2 \cdot L2 + \dots + Nn-1 \cdot Ln-1 + Nn \cdot Ln</math>                     Where N1 is number of type 1 pulses, L1 is length of type 1 pulses, etc.<br/>                     Average Emission Level = Peak Emission Level + 20*log(Duty cycle)                 </li> </ol> </li> <li>7. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level</li> </ol> |
| <p>Test Instruments:</p> | <p>Refer to section 5.7 for details</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <p>Test mode:</p>        | <p>Non-hopping mode</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <p>Test results:</p>     | <p>Pass</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

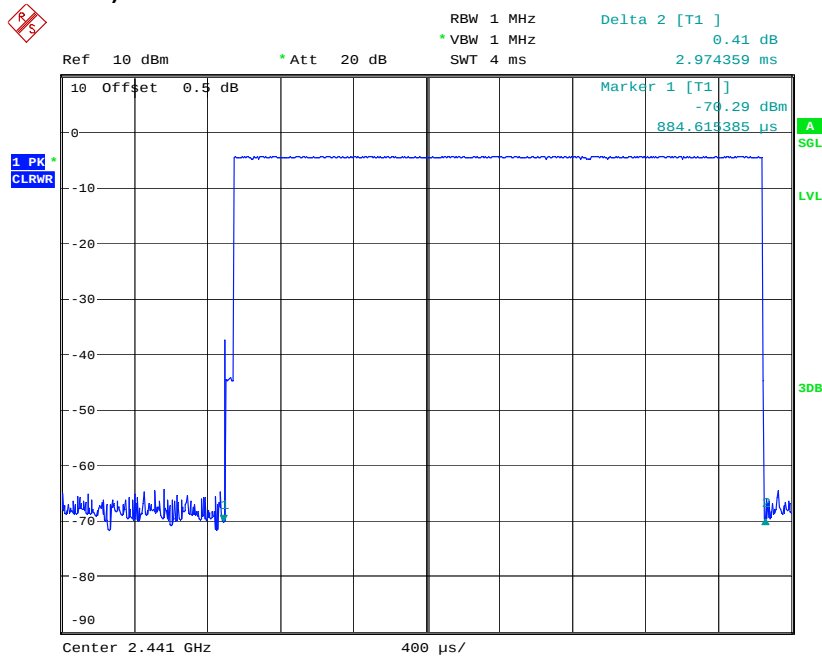
Remark:

1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case.
2. 9 kHz to 30 MHz is noise floor, so only shows the data of above 30MHz in this report.

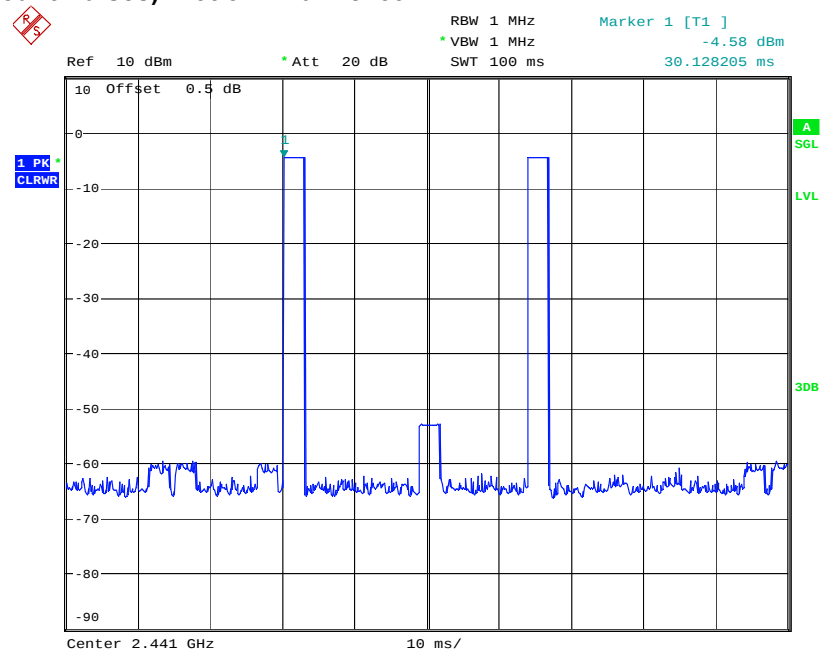
Measurement data:

## Duty cycle correction factor for average measurement

### DH5 on time (One Pulse) Plot on Channel 39



### DH5 on time (Count Pulses) Plot on Channel 39

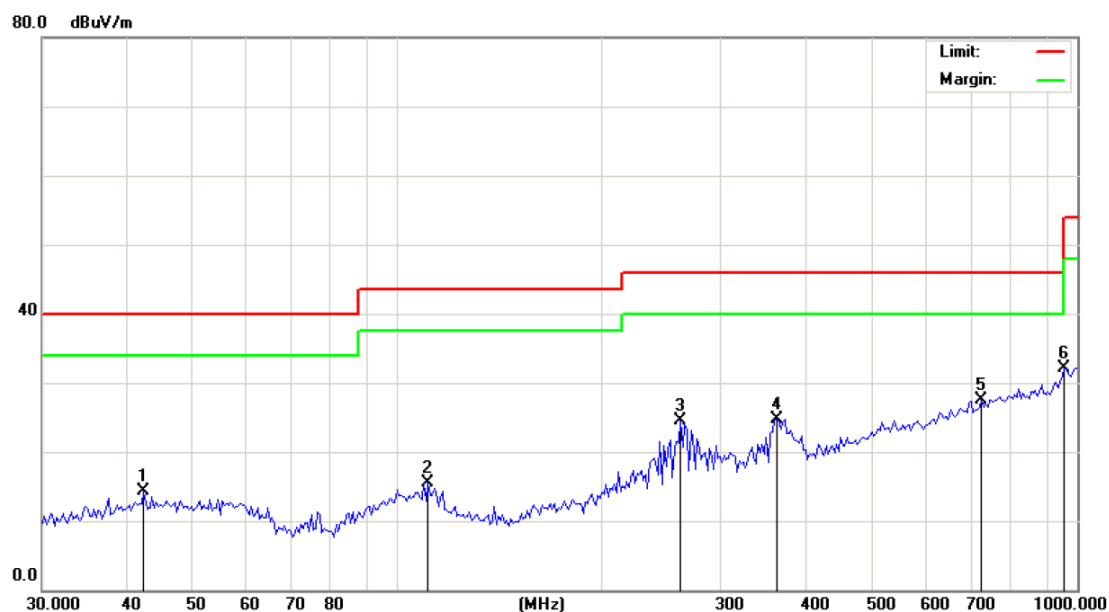


#### Note:

1. Worst case Duty cycle = on time/100 milliseconds =  $2 * 2.97 / 100 = 0.0594$
2. Worst case Duty cycle correction factor =  $20 * \log(\text{Duty cycle}) = -24.52\text{dB}$
3. DH5 has the highest duty cycle worst case and is reported.
4. The average levels were calculated from the peak level corrected with duty cycle correction factor (-24.52dB) derived from  $20\log(\text{dwell time}/100\text{ms})$ . This correction is only for signals that hop with the fundamental signal, such as band-edge and harmonic. Other spurious signals that are independent of the hopping signal would not use this correction.

## Below 1GHz

Vertical:



Site

Polarization: **Vertical**

Temperature: 27

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

Power: AC 120V/60Hz

Humidity: 50 %

EUT: Tablet PC

Distance: 3m

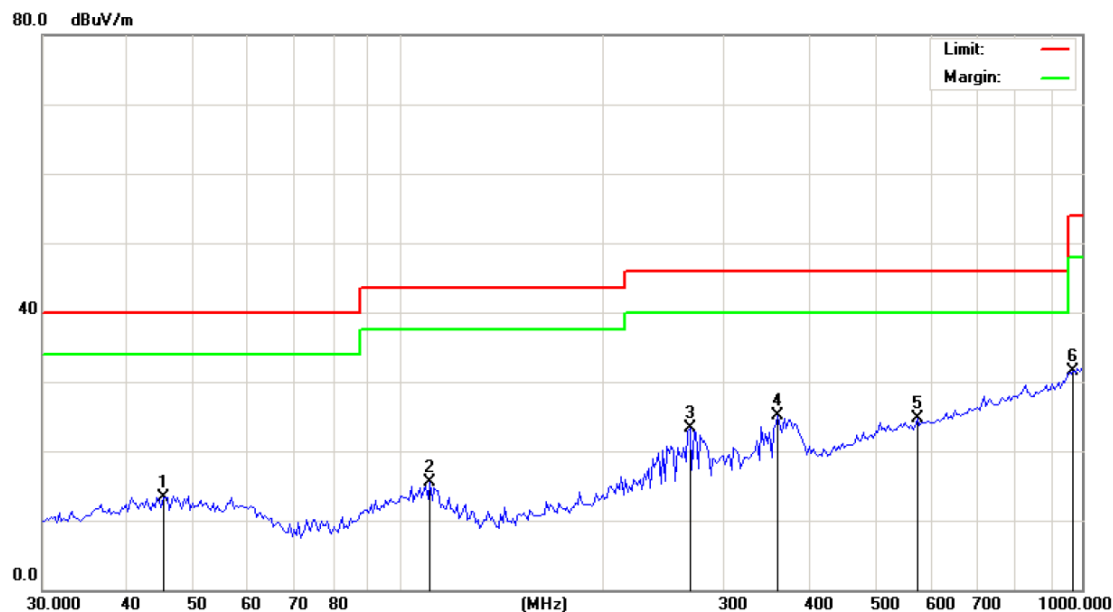
M/N: RL-SM02BD

Mode: Tx Mode

Note:

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Antenna<br>Height<br>cm | Table<br>Degree | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|-------------------------|-----------------|---------|
| 1   |     | 42.3314      | 26.58                    | -12.37                  | 14.21                      | 40.00           | -25.79     | peak                    | 0               |         |
| 2   |     | 110.8581     | 27.65                    | -12.13                  | 15.52                      | 43.50           | -27.98     | peak                    | 0               |         |
| 3   |     | 261.2730     | 34.03                    | -9.57                   | 24.46                      | 46.00           | -21.54     | peak                    | 0               |         |
| 4   |     | 360.9775     | 31.75                    | -6.99                   | 24.76                      | 46.00           | -21.24     | peak                    | 0               |         |
| 5   |     | 723.7930     | 27.10                    | 0.45                    | 27.55                      | 46.00           | -18.45     | peak                    | 0               |         |
| 6   | *   | 958.7135     | 27.37                    | 4.66                    | 32.03                      | 46.00           | -13.97     | peak                    | 0               |         |

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  
 Distance: 3m

Temperature: 27  
 Humidity: 50 %

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------------|--------------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m       | dBuV/m | dB     | cm             | degree       | Comment |
| 1   |     | 45.0951  | 25.61         | -12.25         | 13.36        | 40.00  | -26.64 | peak           | 0            |         |
| 2   |     | 110.8581 | 27.69         | -12.13         | 15.56        | 43.50  | -27.94 | peak           | 0            |         |
| 3   |     | 266.8395 | 32.67         | -9.38          | 23.29        | 46.00  | -22.71 | peak           | 0            |         |
| 4   | *   | 358.4497 | 32.09         | -7.04          | 25.05        | 46.00  | -20.95 | peak           | 0            |         |
| 5   |     | 573.9882 | 26.88         | -2.21          | 24.67        | 46.00  | -21.33 | peak           | 0            |         |
| 6   |     | 972.2827 | 26.43         | 5.12           | 31.55        | 54.00  | -22.45 | peak           | 0            |         |

**Above 1GHz:**

Modulation Type: 8DPSK

| Low channel: 2402 MHz |               |                     |                   |                        |                |             |                     |                   |             |
|-----------------------|---------------|---------------------|-------------------|------------------------|----------------|-------------|---------------------|-------------------|-------------|
| Freq. (MHz)           | Ant. Pol. H/V | Peak reading (dBuV) | AV reading (dBuV) | Correction Factor (dB) | Emission Level |             | Peak limit (dBuV/m) | AV limit (dBuV/m) | Margin (dB) |
|                       |               |                     |                   |                        | Peak (dBuV/m)  | AV (dBuV/m) |                     |                   |             |
| 1303.12               | H             | 48.97               | ---               | -4.20                  | 44.77          | ---         | 74                  | 54                | -9.23       |
| 4804.00               | H             | 50.28               | ---               | -3.94                  | 46.34          | ---         | 74                  | 54                | -7.66       |
| 7206.00               | H             | 44.89               | ---               | 0.52                   | 45.41          | ---         | 74                  | 54                | -8.59       |
| ---                   | H             | ---                 | ---               | ---                    | ---            | ---         | ---                 | ---               | ---         |
| ---                   | H             | ---                 | ---               | ---                    | ---            | ---         | ---                 | ---               | ---         |
| 1304.09               | V             | 48.11               | ---               | -4.25                  | 43.86          | ---         | 74                  | 54                | -10.14      |
| 4804.00               | V             | 50.92               | ---               | -3.94                  | 46.98          | ---         | 74                  | 54                | -7.02       |
| 7206.00               | V             | 44.54               | ---               | 0.59                   | 45.13          | ---         | 74                  | 54                | -8.87       |
| ---                   | V             | ---                 | ---               | ---                    | ---            | ---         | ---                 | ---               | ---         |
| ---                   | V             | ---                 | ---               | ---                    | ---            | ---         | ---                 | ---               | ---         |

| Middle channel: 2441 MHz |               |                     |                   |                        |                |             |                     |                   |             |
|--------------------------|---------------|---------------------|-------------------|------------------------|----------------|-------------|---------------------|-------------------|-------------|
| Freq. (MHz)              | Ant. Pol. H/V | Peak reading (dBuV) | AV reading (dBuV) | Correction Factor (dB) | Emission Level |             | Peak limit (dBuV/m) | AV limit (dBuV/m) | Margin (dB) |
|                          |               |                     |                   |                        | Peak (dBuV/m)  | AV (dBuV/m) |                     |                   |             |
| 1241.87                  | H             | 49.26               | ---               | -4.20                  | 45.06          | ---         | 74                  | 54                | -8.94       |
| 4882.00                  | H             | 51.60               | ---               | -3.98                  | 47.62          | ---         | 74                  | 54                | -6.38       |
| 7323.00                  | H             | 46.19               | ---               | 0.56                   | 46.75          | ---         | 74                  | 54                | -7.25       |
| ---                      | H             | ---                 | ---               | ---                    | ---            | ---         | ---                 | ---               | ---         |
| ---                      | H             | ---                 | ---               | ---                    | ---            | ---         | ---                 | ---               | ---         |
| 1306.45                  | V             | 48.64               | ---               | -4.25                  | 44.39          | ---         | 74                  | 54                | -9.61       |
| 4882.00                  | V             | 51.02               | ---               | -3.98                  | 47.04          | ---         | 74                  | 54                | -6.96       |
| 7323.00                  | V             | 45.40               | ---               | 0.57                   | 45.97          | ---         | 74                  | 54                | -8.03       |
| ---                      | V             | ---                 | ---               | ---                    | ---            | ---         | ---                 | ---               | ---         |

| High channel: 2480 MHz |               |                     |                   |                        |                |             |                     |                   |             |
|------------------------|---------------|---------------------|-------------------|------------------------|----------------|-------------|---------------------|-------------------|-------------|
| Freq. (MHz)            | Ant. Pol. H/V | Peak reading (dBuV) | AV reading (dBuV) | Correction Factor (dB) | Emission Level |             | Peak limit (dBuV/m) | AV limit (dBuV/m) | Margin (dB) |
|                        |               |                     |                   |                        | Peak (dBuV/m)  | AV (dBuV/m) |                     |                   |             |
| 1303.34                | H             | 48.05               | ---               | -4.20                  | 43.85          | ---         | 74                  | 54                | -10.15      |
| 4960.00                | H             | 49.60               | ---               | -3.98                  | 45.62          | ---         | 74                  | 54                | -8.38       |
| 7440.00                | H             | 44.49               | ---               | 0.52                   | 45.01          | ---         | 74                  | 54                | -8.99       |
| ---                    | H             | ---                 | ---               | ---                    | ---            | ---         | ---                 | ---               | ---         |
| ---                    | H             | ---                 | ---               | ---                    | ---            | ---         | ---                 | ---               | ---         |
| 1309.82                | V             | 48.57               | ---               | -4.25                  | 44.32          | ---         | 74                  | 54                | -9.68       |
| 4960.00                | V             | 50.13               | ---               | -3.98                  | 46.15          | ---         | 74                  | 54                | -7.85       |
| 7440.00                | V             | 45.21               | ---               | 0.57                   | 45.78          | ---         | 74                  | 54                | -8.22       |
| ---                    | V             | ---                 | ---               | ---                    | ---            | ---         | ---                 | ---               | ---         |
| ---                    | V             | ---                 | ---               | ---                    | ---            | ---         | ---                 | ---               | ---         |

Remark:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
2. Margin (dB) = Emission Level (Peak) (dBuV/m)-Average limit (dBuV/m)
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
5. 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.

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